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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : P5306

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

Table Of Contents for P5306

1) SEMI-VOLATILE DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 7
5) Conformance/Non Conformance 8
6) QA Checklist 10
7) Chronicle 11
8) Hit Summary 12
9) QC Data Summary For SVOCMS Group3 13
- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) MS/MSD Summary 15
- 9.3) LCS/LCSD Summary 17
- 9.4) Method Blank Summary 18
- 9.5) GS/MS Tune Summary 19
- 9.6) Internal Standard Area and RT Summary 21

10) Sample Data 23
- 10.1) OU4-VSL-07-121224 24
- 10.2) OU4-VSL-08-121224 35
- 10.3) OU4-VSL-09-121224 45
- 10.4) OU4-VSL-10-121224 55
- 10.5) OU4-VSL-11-121224 65
- 10.6) OU4-VSL-12-121224 75
- 10.7) OU4-VSL-13-121224 85
- 10.8) OU4-VSL-14-121224 95

11) Calibration Data Summary 105
- 11.1) Initial Calibration Data 3
  - 11.1.1) BF121624 3
- 11.2) Continued Calibration Data 516
  - 11.2.1) BF140942.D 516
  - 11.2.2) BF140959.D 572

12) QC Sample Data 628
- 12.1) Tune Raw Data 629
- 12.2) Method Blank Data 637
- 12.3) LCS Data 647
- 12.4) MS Data 698

12.5) MSD Data 749
13) Manual Integration 800
14) Analytical Runlogs 802
15) Percent Solid 808
16) Extraction Logs 810
16.1) PB165705.pdf 810
16.2) PB165705IC.pdf 812
17) Standard Prep Logs 815
18) Shipping Document 999
18.1) Chain Of Custody 1000
18.2) Lab Certificate 1001
18.3) Internal COC 1002
19) Not Reviewed Data 1004

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

Cover Page

Order ID : P5306

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
P5306-01	OU4-VSL-07-121224
P5306-02	OU4-VSL-07-121224
P5306-03	OU4-VSL-08-121224
P5306-04	OU4-VSL-08-121224
P5306-05	OU4-VSL-09-121224
P5306-06	OU4-VSL-09-121224
P5306-07	OU4-VSL-10-121224
P5306-08	OU4-VSL-10-121224
P5306-09	OU4-VSL-11-121224
P5306-10	OU4-VSL-11-121224
P5306-11	OU4-VSL-12-121224
P5306-12	OU4-VSL-12-121224
P5306-13	OU4-VSL-13-121224
P5306-14	OU4-VSL-13-121224
P5306-15	OU4-VSL-14-121224
P5306-16	OU4-VSL-14-121224
P5306-17	OU4-VSL-06R-121224
P5306-18	OU4-VSL-06R-121224

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

Signature : _____

Date: 12/28/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Chemtech Project # P5306
Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:
18 Solid samples were received on 12/17/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals Group6, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SPLP MetalGroup6, SVOCMS Group3 and VOCMS Group3. This data package contains results for SVOCMS Group3.

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 SVOCMS Group3 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.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BF140942.D met the requirements except for Benzo(g,h,i)perylene,Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

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

E. Additional Comments:

As per special requirement for this project form-1 and Hit Summary are reported in mg/kg.

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

F. Manual Integration Comments:

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

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_____

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: P5306 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 File ID BF140942.D met the requirements except for Benzo(g,h,i)perylene,Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.			
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.			
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 Blank Spike met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

		NA	NO	YES
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:

As per special requirement for this project form-1 and Hit Summary are reported in mg/kg.

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

_____ _____

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5306

	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: SOHIL JODHANI **Date:** 12/28/2024

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

LAB CHRONICLE

OrderID:	P5306	**OrderDate:**	12/17/2024 10:24:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	L41,L61,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5306-01	**OU4-VSL-07-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-03	**OU4-VSL-08-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-05	**OU4-VSL-09-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-07	**OU4-VSL-10-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-09	**OU4-VSL-11-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-11	**OU4-VSL-12-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-13	**OU4-VSL-13-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	
P5306-15	**OU4-VSL-14-121224**	**SOIL**			**12/12/24**			**12/17/24**
			SVOCMS Group3	8270E		12/18/24	12/20/24	

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

Hit Summary Sheet
SW-846

SDG No.: P5306

Client: Nobis Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									
				0.000					
			Total Svoc :		**0.00**				
			Total Concentration:		**0.00**				

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P5306

Client: Nobis Group

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
P5306-01	OU4-VSL-07-121224	Nitrobenzene-d5	100	64.0	64		37	122
		2-Fluorobiphenyl	100	62.6	63		44	115
		Terphenyl-d14	100	55.8	56		54	127
P5306-03	OU4-VSL-08-121224	Nitrobenzene-d5	100	106	106		37	122
		2-Fluorobiphenyl	100	96.8	97		44	115
		Terphenyl-d14	100	105	105		54	127
P5306-05	OU4-VSL-09-121224	Nitrobenzene-d5	100	111	111		37	122
		2-Fluorobiphenyl	100	107	107		44	115
		Terphenyl-d14	100	91.5	91		54	127
P5306-07	OU4-VSL-10-121224	Nitrobenzene-d5	100	105	105		37	122
		2-Fluorobiphenyl	100	107	107		44	115
		Terphenyl-d14	100	102	102		54	127
P5306-09	OU4-VSL-11-121224	Nitrobenzene-d5	100	73.5	73		37	122
		2-Fluorobiphenyl	100	73.3	73		44	115
		Terphenyl-d14	100	60.7	61		54	127
P5306-09MS	OU4-VSL-11-121224MS	Nitrobenzene-d5	100	89.0	89		37	122
		2-Fluorobiphenyl	100	84.0	84		44	115
		Terphenyl-d14	100	91.0	91		54	127
P5306-09MSD	OU4-VSL-11-121224MSD	Nitrobenzene-d5	100	89.7	90		37	122
		2-Fluorobiphenyl	100	86.8	87		44	115
		Terphenyl-d14	100	92.3	92		54	127
P5306-11	OU4-VSL-12-121224	Nitrobenzene-d5	100	103	103		37	122
		2-Fluorobiphenyl	100	95.0	95		44	115
		Terphenyl-d14	100	89.1	89		54	127
P5306-13	OU4-VSL-13-121224	Nitrobenzene-d5	100	101	101		37	122
		2-Fluorobiphenyl	100	91.7	92		44	115
		Terphenyl-d14	100	89.0	89		54	127
P5306-15	OU4-VSL-14-121224	Nitrobenzene-d5	100	109	109		37	122
		2-Fluorobiphenyl	100	109	109		44	115
		Terphenyl-d14	100	108	108		54	127
PB165705BL	PB165705BL	Nitrobenzene-d5	100	107	107		37	122
		2-Fluorobiphenyl	100	103	103		44	115
		Terphenyl-d14	100	110	110		54	127
PB165705BS	PB165705BS	Nitrobenzene-d5	100	91.6	92		37	122
		2-Fluorobiphenyl	100	105	105		44	115
		Terphenyl-d14	100	121	121		54	127

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.: P5306

Client: Nobis Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5306-09MS		**Client Sample ID: OU4-VSL-11-121224MS**						**DataFile: BF140948.D**			
Naphthalene	1800	0	1800	ug/Kg	100				35	123	
2-Methylnaphthalene	1800	0	1700	ug/Kg	94				38	122	
Acenaphthylene	1800	0	2000	ug/Kg	111				32	132	
Acenaphthene	1800	0	1900	ug/Kg	106				40	123	
Fluorene	1800	0	1800	ug/Kg	100				43	125	
Phenanthrene	1800	0	2000	ug/Kg	111				50	121	
Anthracene	1800	0	1900	ug/Kg	106				47	123	
Fluoranthene	1800	0	1700	ug/Kg	94				50	127	
Pyrene	1800	0	2000	ug/Kg	111				47	127	
Benzo(a)anthracene	1800	0	1900	ug/Kg	106				49	126	
Chrysene	1800	0	1800	ug/Kg	100				50	124	
Benzo(b)fluoranthene	1800	0	1700	ug/Kg	94				45	132	
Benzo(k)fluoranthene	1800	0	2000	ug/Kg	111				47	132	
Benzo(a)pyrene	1800	0	2000	ug/Kg	111				45	129	
Indeno(1,2,3-cd)pyrene	1800	0	2400	ug/Kg	133				45	133	
Dibenz(a,h)anthracene	1800	0	2300	ug/Kg	128				45	134	
Benzo(g,h,i)perylene	1800	0	2200	ug/Kg	122				43	134	

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.: P5306

Client: Nobis Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5306-09MSD		**Client Sample ID: OU4-VSL-11-121224MSD**						**DataFile: BF140949.D**			
Naphthalene	1800	0	1900	ug/Kg	106		6		35	123	20
2-Methylnaphthalene	1800	0	1900	ug/Kg	106		12		38	122	20
Acenaphthylene	1800	0	2100	ug/Kg	117		5		32	132	20
Acenaphthene	1800	0	2000	ug/Kg	111		5		40	123	20
Fluorene	1800	0	1900	ug/Kg	106		6		43	125	20
Phenanthrene	1800	0	2100	ug/Kg	117		5		50	121	20
Anthracene	1800	0	2200	ug/Kg	122		14		47	123	20
Fluoranthene	1800	0	2000	ug/Kg	111		17		50	127	20
Pyrene	1800	0	2000	ug/Kg	111		0		47	127	20
Benzo(a)anthracene	1800	0	1900	ug/Kg	106		0		49	126	20
Chrysene	1800	0	1900	ug/Kg	106		6		50	124	20
Benzo(b)fluoranthene	1800	0	1900	ug/Kg	106		12		45	132	20
Benzo(k)fluoranthene	1800	0	2000	ug/Kg	111		0		47	132	20
Benzo(a)pyrene	1800	0	2100	ug/Kg	117		5		45	129	20
Indeno(1,2,3-cd)pyrene	1800	0	2400	ug/Kg	133		0		45	133	20
Dibenz(a,h)anthracene	1800	0	2400	ug/Kg	133		4		45	134	20
Benzo(g,h,i)perylene	1800	0	2200	ug/Kg	122		0		43	134	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5306

Client: Nobis Group

Analytical Method: 8270E **DataFile:** BF140944.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165705BS	Naphthalene	1700	1600	ug/Kg	94				35	123	
	2-Methylnaphthalene	1700	1700	ug/Kg	100				38	122	
	Acenaphthylene	1700	1800	ug/Kg	106				32	132	
	Acenaphthene	1700	1800	ug/Kg	106				40	123	
	Fluorene	1700	1500	ug/Kg	88				43	125	
	Phenanthrene	1700	1900	ug/Kg	112				50	121	
	Anthracene	1700	2000	ug/Kg	118				47	123	
	Fluoranthene	1700	1900	ug/Kg	112				50	127	
	Pyrene	1700	1900	ug/Kg	112				47	127	
	Benzo(a)anthracene	1700	1800	ug/Kg	106				49	126	
	Chrysene	1700	1800	ug/Kg	106				50	124	
	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	2200	ug/Kg	129				45	133	
	Dibenz(a,h)anthracene	1700	2100	ug/Kg	124				45	134	
	Benzo(g,h,i)perylene	1700	2100	ug/Kg	124				43	134	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165705BL

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

Lab File ID: BF140943.D Lab Sample ID: PB165705BL

Instrument ID: BNA_F Date Extracted: 12/18/2024

Matrix: (soil/water) SOIL Date Analyzed: 12/20/2024

Level: (low/med) LOW Time Analyzed: 11:41

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165705BS	PB165705BS	BF140944.D	12/20/2024
OU4-VSL-12-121224	P5306-11	BF140946.D	12/20/2024
OU4-VSL-11-121224MSD	P5306-09MSD	BF140949.D	12/20/2024
OU4-VSL-13-121224	P5306-13	BF140950.D	12/20/2024
OU4-VSL-14-121224	P5306-15	BF140951.D	12/20/2024
OU4-VSL-07-121224	P5306-01	BF140952.D	12/20/2024
OU4-VSL-08-121224	P5306-03	BF140953.D	12/20/2024
OU4-VSL-11-121224	P5306-09	BF140947.D	12/20/2024
OU4-VSL-11-121224MS	P5306-09MS	BF140948.D	12/20/2024
OU4-VSL-09-121224	P5306-05	BF140954.D	12/20/2024
OU4-VSL-10-121224	P5306-07	BF140955.D	12/20/2024

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM SAS No.: P5306 SDG NO.: P5306

Lab File ID: BF140854.D DFTPP Injection Date: 12/16/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.6
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.5
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	6.7
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	13.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (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	BF140855.D	12/16/2024	12:13
SSTDICC005	SSTDICC005	BF140856.D	12/16/2024	12:39
SSTDICC010	SSTDICC010	BF140857.D	12/16/2024	13:05
SSTDICC020	SSTDICC020	BF140858.D	12/16/2024	14:00
SSTDICCC040	SSTDICCC040	BF140859.D	12/16/2024	14:26
SSTDICC050	SSTDICC050	BF140860.D	12/16/2024	15:23
SSTDICC060	SSTDICC060	BF140861.D	12/16/2024	15:49
SSTDICC080	SSTDICC080	BF140862.D	12/16/2024	16:15

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM SAS No.: P5306 SDG NO.: P5306

Lab File ID: BF140941.D DFTPP Injection Date: 12/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.6
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	32.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	44.8
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	30.8
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	16.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (18.7) 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	BF140942.D	12/20/2024	11:15
PB165705BL	PB165705BL	BF140943.D	12/20/2024	11:41
PB165705BS	PB165705BS	BF140944.D	12/20/2024	12:07
OU4-VSL-12-121224	P5306-11	BF140946.D	12/20/2024	13:18
OU4-VSL-11-121224	P5306-09	BF140947.D	12/20/2024	13:44
OU4-VSL-11-121224MS	P5306-09MS	BF140948.D	12/20/2024	14:10
OU4-VSL-11-121224MSD	P5306-09MSD	BF140949.D	12/20/2024	14:36
OU4-VSL-13-121224	P5306-13	BF140950.D	12/20/2024	15:02
OU4-VSL-14-121224	P5306-15	BF140951.D	12/20/2024	15:29
OU4-VSL-07-121224	P5306-01	BF140952.D	12/20/2024	15:55
OU4-VSL-08-121224	P5306-03	BF140953.D	12/20/2024	16:21
OU4-VSL-09-121224	P5306-05	BF140954.D	12/20/2024	16:48
OU4-VSL-10-121224	P5306-07	BF140955.D	12/20/2024	17:14
SSTDCCC040EC	SSTDCCC040	BF140959.D	12/20/2024	19:24

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/20/2024

Lab File ID: BF140942.D Time Analyzed: 11:15

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	74814	6.851	271589	8.13	162319	9.89
	UPPER LIMIT	149628	7.351	543178	8.634	324638	10.386
	LOWER LIMIT	37407	6.351	135795	7.634	81159.5	9.386
	EPA SAMPLE NO.						
01	PB165705BL	64872	6.85	228592	8.13	136709	9.89
02	PB165705BS	71247	6.85	255665	8.13	141292	9.89
03	OU4-VSL-11-121224	58015	6.85	219653	8.13	121595	9.89
04	OU4-VSL-11-121224MS	55385	6.85	209218	8.13	115521	9.89
05	OU4-VSL-11-121224MSD	45949	6.85	175670	8.13	102157	9.89
06	OU4-VSL-12-121224	54430	6.85	210139	8.13	120116	9.89
07	OU4-VSL-13-121224	53866	6.85	214632	8.13	122940	9.89
08	OU4-VSL-07-121224	48127	6.85	182875	8.13	107744	9.88
09	OU4-VSL-08-121224	51335	6.85	204800	8.13	121841	9.88
10	OU4-VSL-09-121224	47850	6.85	188298	8.13	108152	9.88
11	OU4-VSL-10-121224	49587	6.85	194335	8.13	109105	9.88
12	OU4-VSL-14-121224	50529	6.85	204987	8.13	120471	9.88

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG NO.: P5306

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/20/2024

Lab File ID: BF140942.D Time Analyzed: 11:15

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	282660	11.38	164316	14.033	129329	15.533
	UPPER LIMIT	565320	11.88	328632	14.533	258658	16.033
	LOWER LIMIT	141330	10.88	82158	13.533	64664.5	15.033
	EPA SAMPLE NO.						
01	PB165705BL	270487	11.38	174504	14.03	118300	15.52
02	PB165705BS	237962	11.38	149220	14.03	113763	15.52
03	OU4-VSL-11-121224	255298	11.38	180413	14.03	133929	15.52
04	OU4-VSL-11-121224MS	219277	11.38	133308	14.03	114231	15.52
05	OU4-VSL-11-121224MSD	188148	11.38	131096	14.05	113765	15.56
06	OU4-VSL-12-121224	210542	11.38	164330	14.03	118564	15.53
07	OU4-VSL-13-121224	223066	11.37	167929	14.03	138716	15.55
08	OU4-VSL-07-121224	206471	11.38	165659	14.03	128346	15.52
09	OU4-VSL-08-121224	231777	11.37	149412	14.03	128778	15.52
10	OU4-VSL-09-121224	209762	11.37	160469	14.03	118975	15.52
11	OU4-VSL-10-121224	208663	11.38	159926	14.03	129368	15.52
12	OU4-VSL-14-121224	234289	11.37	182284	14.04	129207	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-07-121224	SDG No.:	P5306
Lab Sample ID:	P5306-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140952.D	1	12/18/24 08:56	12/20/24 15:55	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.095	0.14	0.19	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.089	0.14	0.19	mg/Kg
86-73-7	Fluorene	0.14	U	0.094	0.14	0.19	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.092	0.14	0.19	mg/Kg
120-12-7	Anthracene	0.14	U	0.093	0.14	0.19	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.090	0.14	0.19	mg/Kg
129-00-0	Pyrene	0.14	U	0.091	0.14	0.19	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
218-01-9	Chrysene	0.14	U	0.087	0.14	0.19	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.089	0.14	0.19	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.091	0.14	0.19	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.10	0.14	0.19	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.086	0.14	0.19	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.088	0.14	0.19	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	64.0		37 - 122		64%	SPK: 100
321-60-8	2-Fluorobiphenyl	62.6		44 - 115		63%	SPK: 100
1718-51-0	Terphenyl-d14	55.8		54 - 127		56%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	48100	6.845				
1146-65-2	Naphthalene-d8	183000	8.128				
15067-26-2	Acenaphthene-d10	108000	9.881				
1517-22-2	Phenanthrene-d10	206000	11.375				
1719-03-5	Chrysene-d12	166000	14.027				
1520-96-3	Perylene-d12	128000	15.521				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-07-121224	SDG No.:	P5306
Lab Sample ID:	P5306-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140952.D	1	12/18/24 08:56	12/20/24 15:55	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140952.D
Acq On : 20 Dec 2024 15:55
Operator : RC/JU
Sample : P5306-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Quant Time: Dec 20 16:44:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

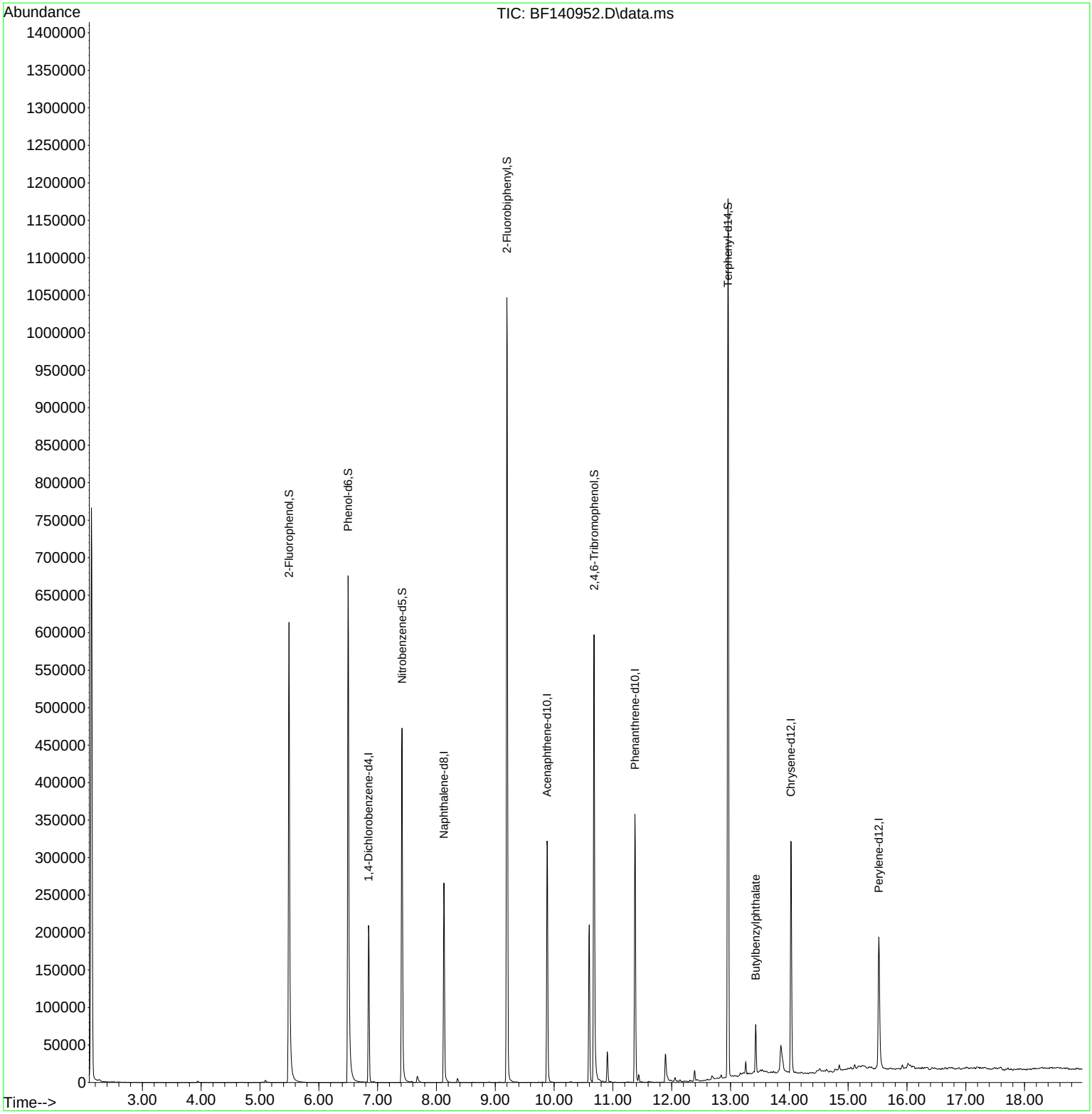
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	48127	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	182875	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	107744	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	206471	20.000	ng	0.00
76) Chrysene-d12	14.027	240	165659	20.000	ng	0.00
86) Perylene-d12	15.521	264	128346	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	282509	96.632	ng	0.00
7) Phenol-d6	6.498	99	375855	97.063	ng	0.00
23) Nitrobenzene-d5	7.416	82	233840	63.974	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	117340	92.082	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	490791	62.627	ng	0.00
79) Terphenyl-d14	12.957	244	586706	55.847	ng	0.00
Target Compounds						Qvalue
80) Butylbenzylphthalate	13.427	149	21928	4.045	ng	97

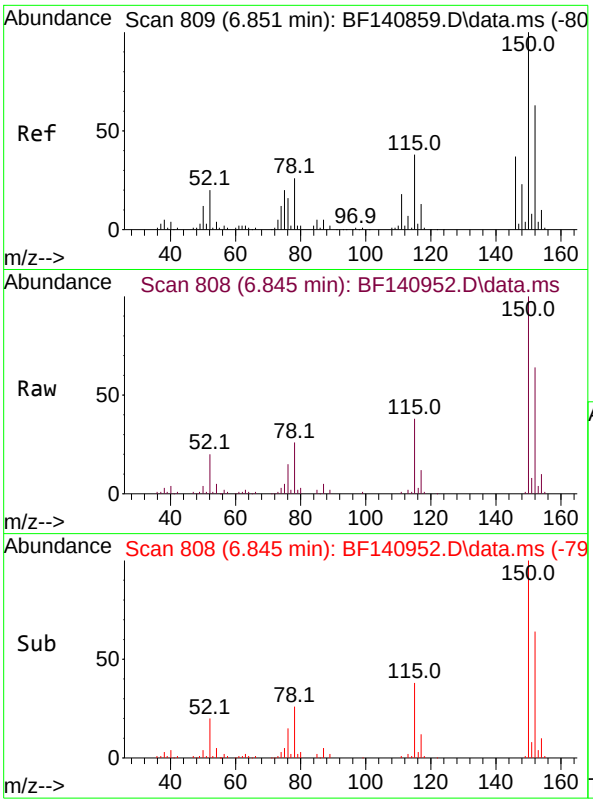
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140952.D
Acq On : 20 Dec 2024 15:55
Operator : RC/JU
Sample : P5306-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Quant Time: Dec 20 16:44:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



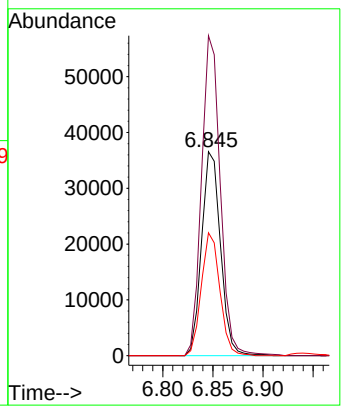


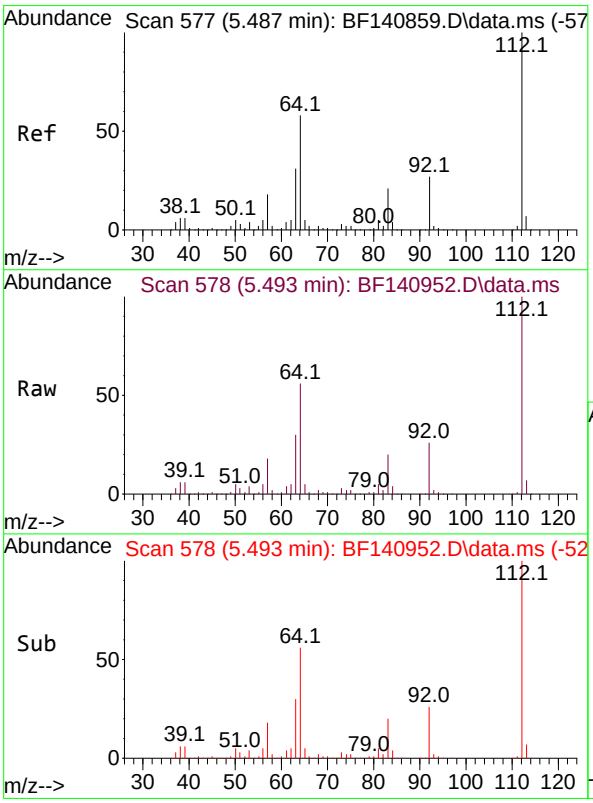
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion:152 Resp: 48127

Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.9	191.9
115	60.2	48.0	72.0

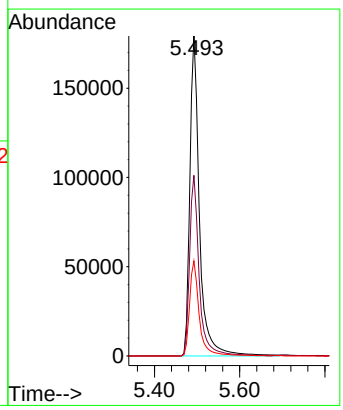


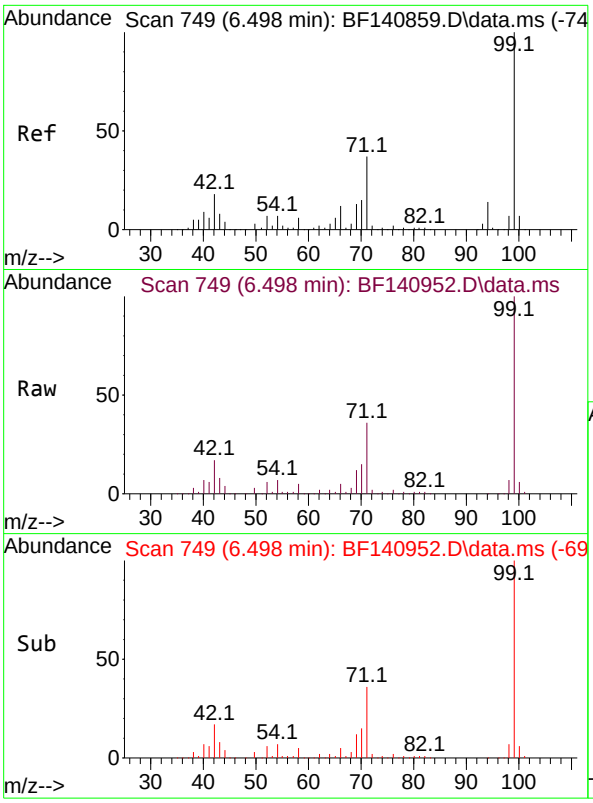


#5
2-Fluorophenol
Concen: 96.632 ng
RT: 5.493 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Tgt Ion:112 Resp: 282509

Ion	Ratio	Lower	Upper
112	100		
64	56.5	46.1	69.1
63	29.7	24.9	37.3



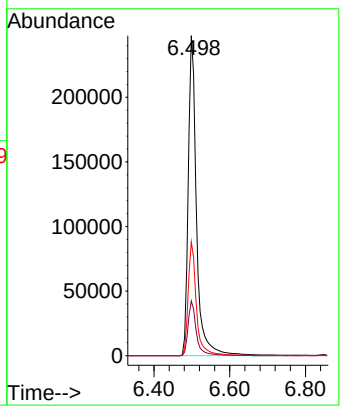


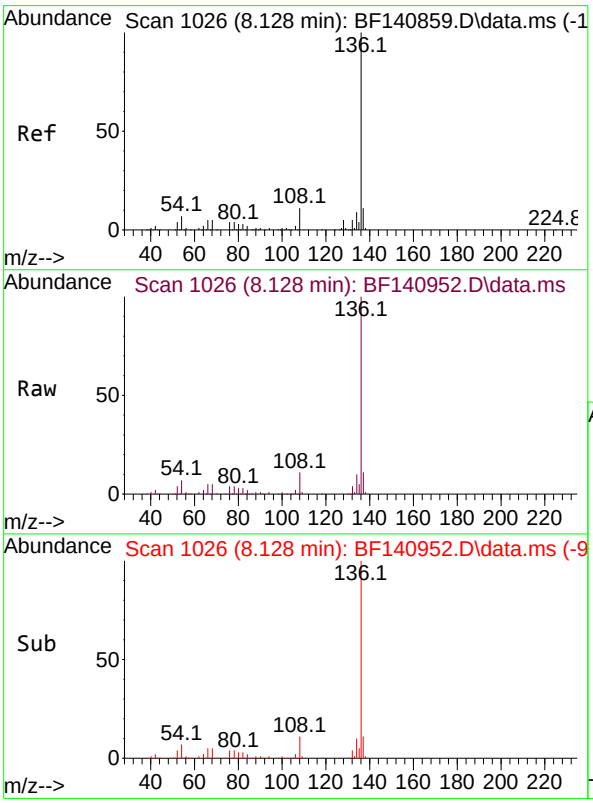
#7
Phenol-d6
Concen: 97.063 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion: 99 Resp: 375855

Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.3	21.5
71	35.5	29.9	44.9

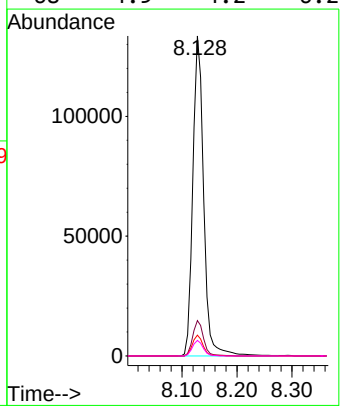


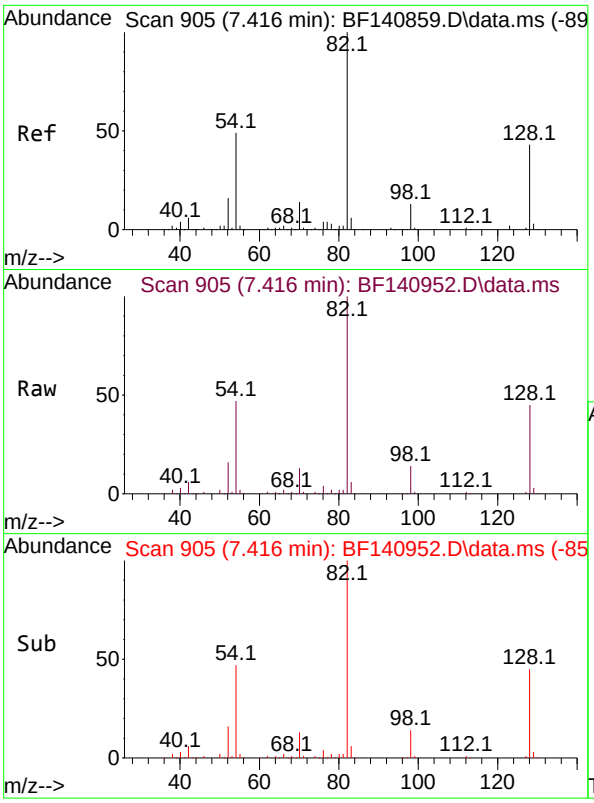


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Tgt Ion:136 Resp: 182875

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	6.5	5.6	8.4
68	4.9	4.2	6.2



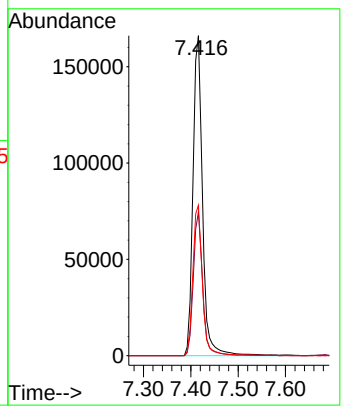


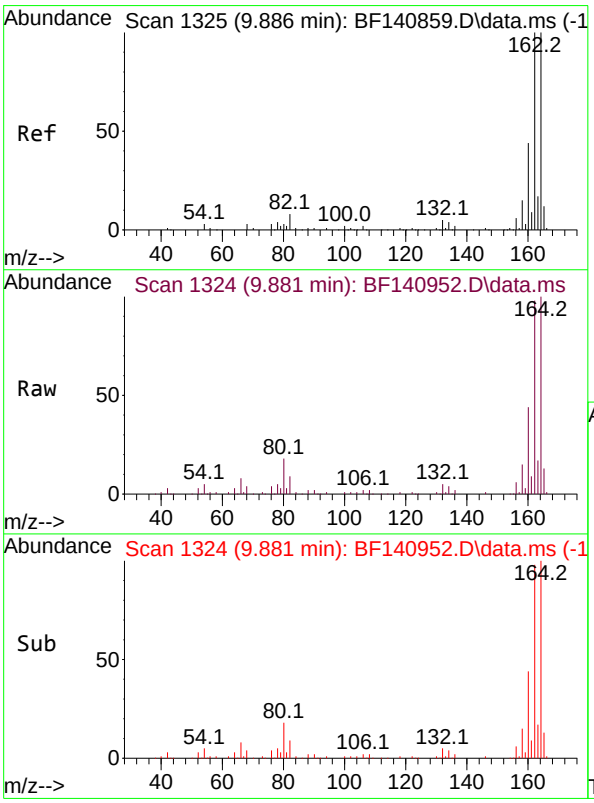
#23
Nitrobenzene-d5
Concen: 63.974 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion: 82 Resp: 233840

Ion	Ratio	Lower	Upper
82	100		
128	44.8	34.4	51.6
54	47.0	38.8	58.2

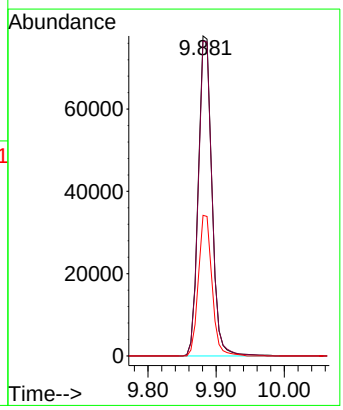


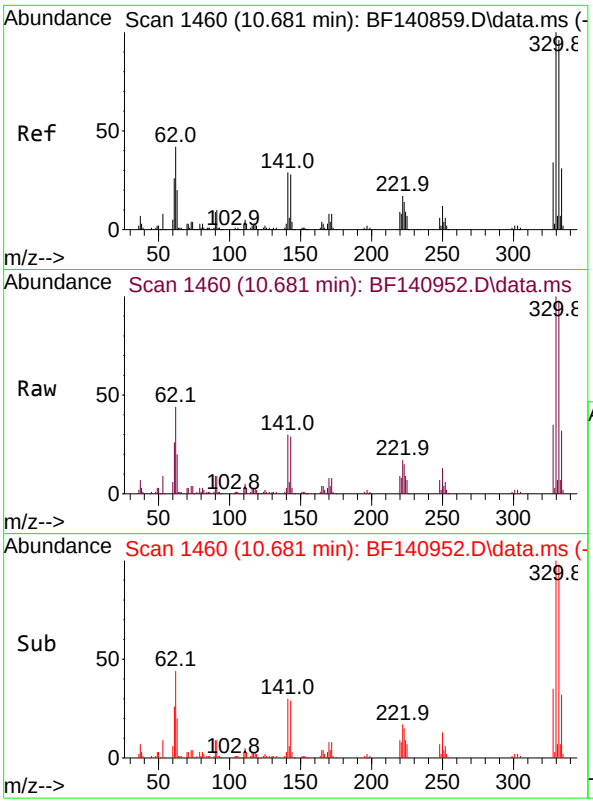


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Tgt Ion:164 Resp: 107744

Ion	Ratio	Lower	Upper
164	100		
162	98.4	79.9	119.9
160	44.0	35.2	52.8



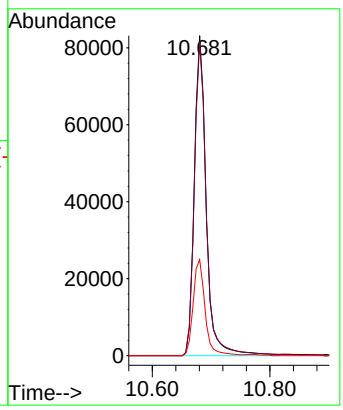


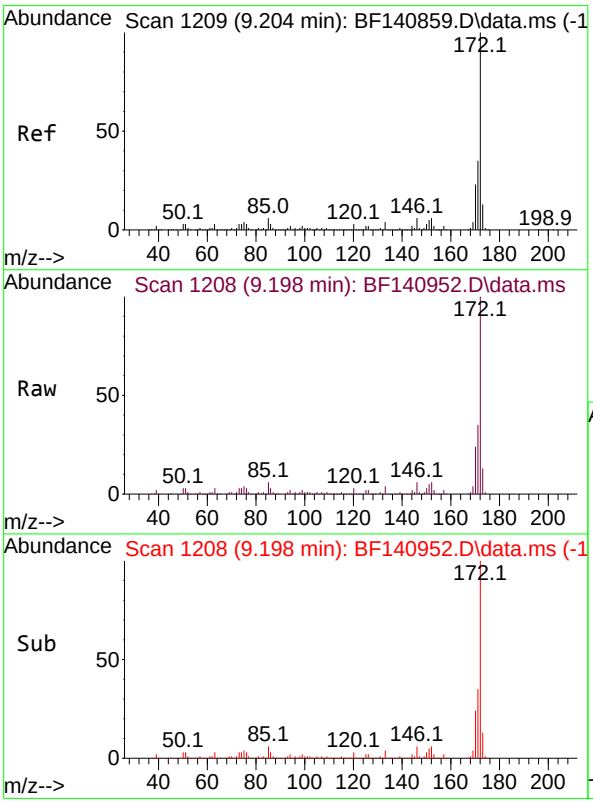
#42
2,4,6-Tribromophenol
Concen: 92.082 ng
RT: 10.681 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion:330 Resp: 117340

Ion	Ratio	Lower	Upper
330	100		
332	98.8	76.2	114.4
141	29.9	24.9	37.3

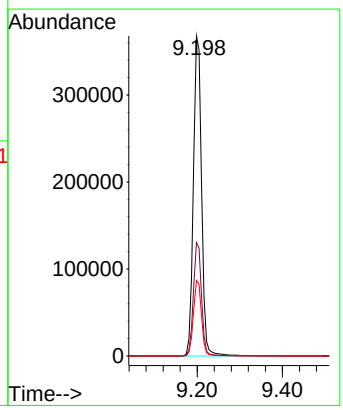


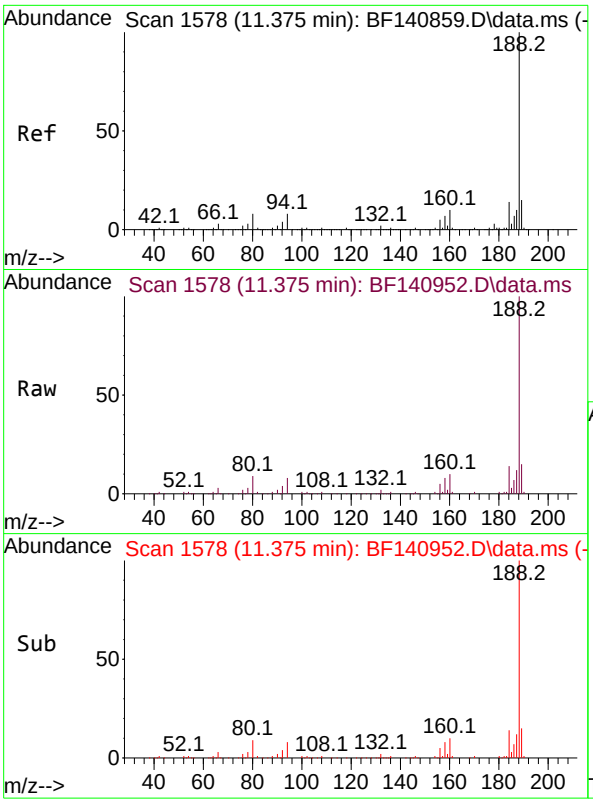


#45
2-Fluorobiphenyl
Concen: 62.627 ng
RT: 9.198 min Scan# 1208
Delta R.T. -0.006 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Tgt Ion:172 Resp: 490791

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.4	42.6
170	23.5	18.6	28.0



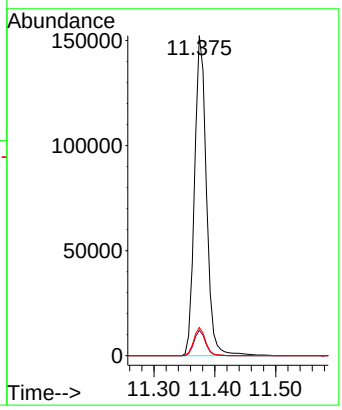


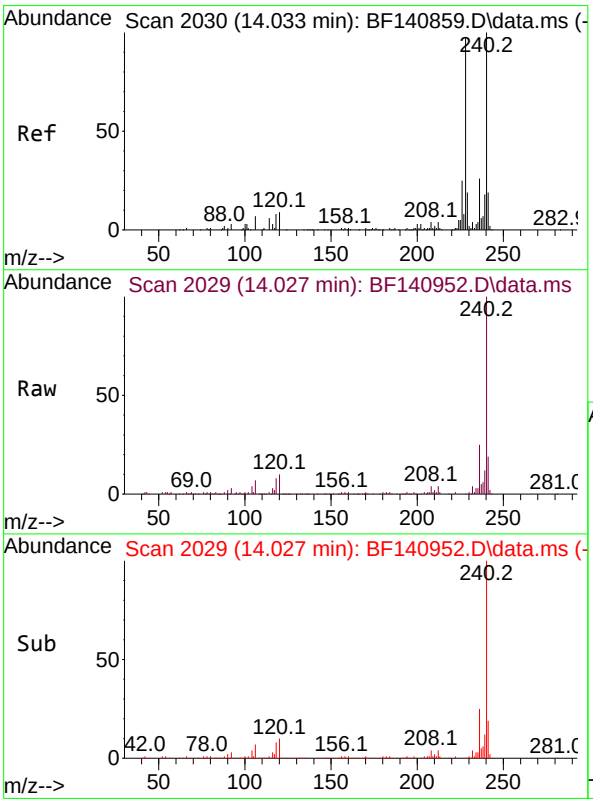
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion:188 Resp: 206471

Ion	Ratio	Lower	Upper
188	100		
94	7.9	6.4	9.6
80	8.8	6.8	10.2

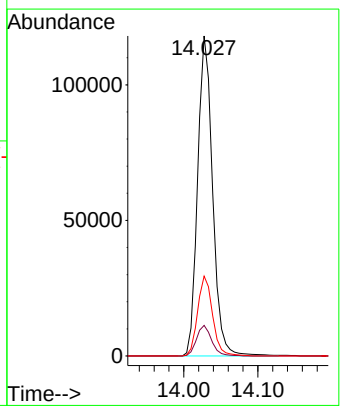


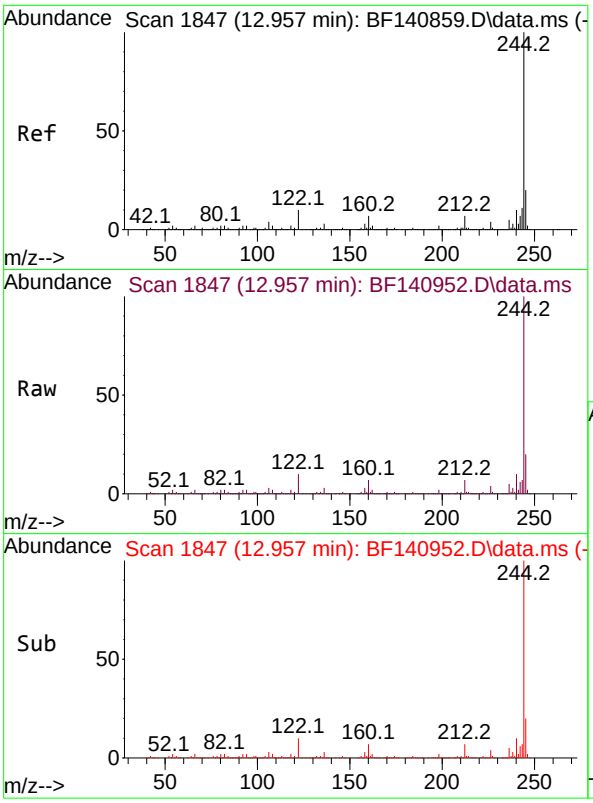


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Tgt Ion:240 Resp: 165659

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.6	11.4
236	25.0	20.5	30.7



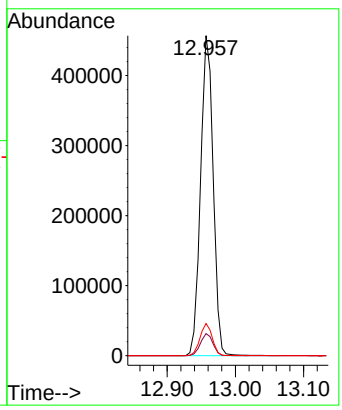


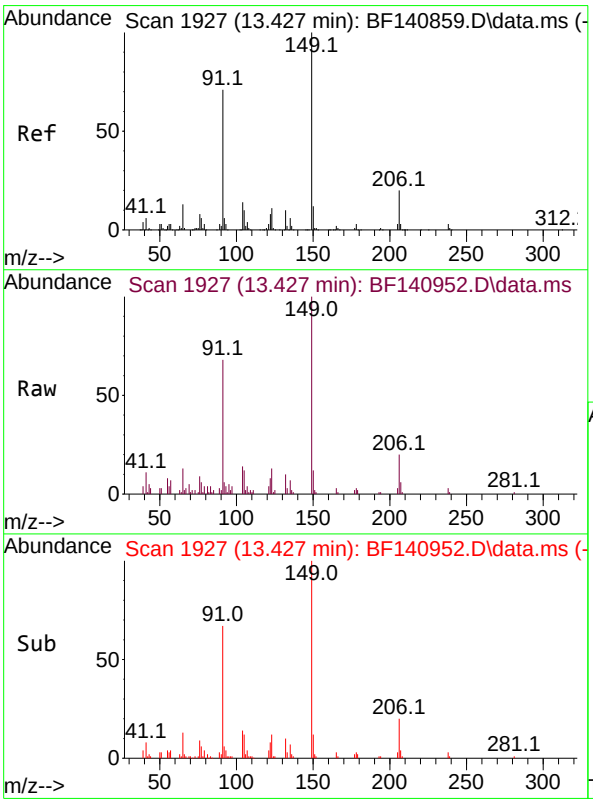
#79
Terphenyl-d14
Concen: 55.847 ng
RT: 12.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion:244 Resp: 586706

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.0	8.2	12.2

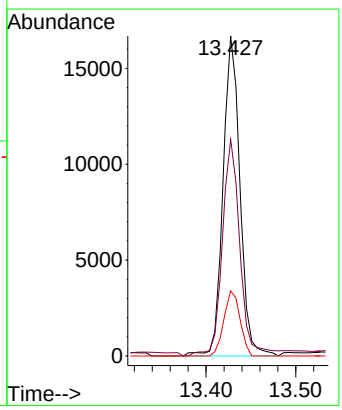


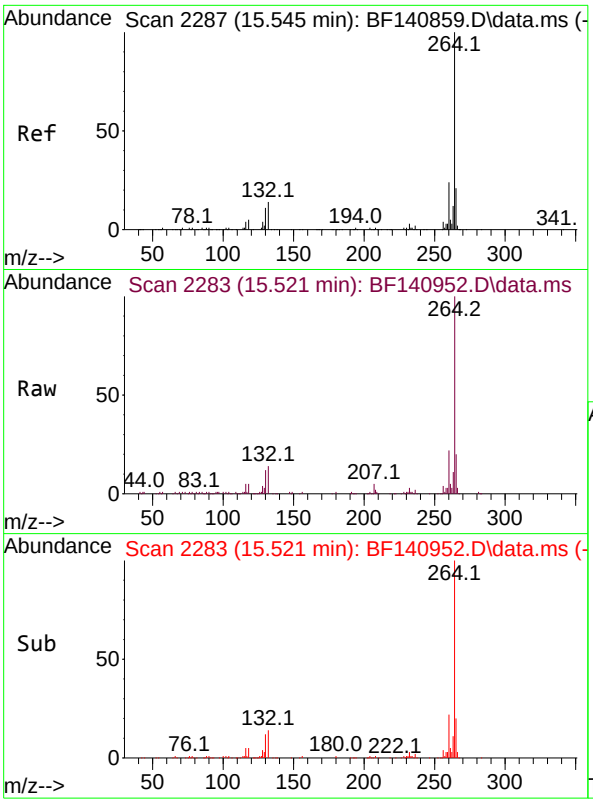


#80
Butylbenzylphthalate
Concen: 4.045 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Tgt Ion:149 Resp: 21928

Ion	Ratio	Lower	Upper
149	100		
91	67.7	56.7	85.1
206	20.3	16.4	24.6



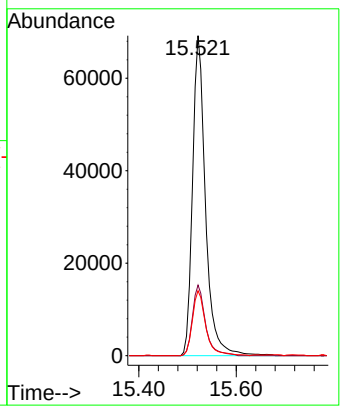


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF140952.D
Acq: 20 Dec 2024 15:55

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-07-121224

Tgt Ion:264 Resp: 128346

Ion	Ratio	Lower	Upper
264	100		
260	22.0	19.1	28.7
265	20.3	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-08-121224	SDG No.:	P5306
Lab Sample ID:	P5306-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140953.D	1	12/18/24 08:56	12/20/24 16:21	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.095	0.14	0.19	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.089	0.14	0.19	mg/Kg
86-73-7	Fluorene	0.14	U	0.094	0.14	0.19	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.092	0.14	0.19	mg/Kg
120-12-7	Anthracene	0.14	U	0.093	0.14	0.19	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.090	0.14	0.19	mg/Kg
129-00-0	Pyrene	0.14	U	0.091	0.14	0.19	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
218-01-9	Chrysene	0.14	U	0.088	0.14	0.19	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.089	0.14	0.19	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.091	0.14	0.19	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.10	0.14	0.19	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.086	0.14	0.19	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.088	0.14	0.19	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	106		37 - 122		106%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.8		44 - 115		97%	SPK: 100
1718-51-0	Terphenyl-d14	105		54 - 127		105%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	51300	6.845				
1146-65-2	Naphthalene-d8	205000	8.128				
15067-26-2	Acenaphthene-d10	122000	9.88				
1517-22-2	Phenanthrene-d10	232000	11.374				
1719-03-5	Chrysene-d12	149000	14.027				
1520-96-3	Perylene-d12	129000	15.521				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-08-121224	SDG No.:	P5306
Lab Sample ID:	P5306-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140953.D	1	12/18/24 08:56	12/20/24 16:21	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140953.D
Acq On : 20 Dec 2024 16:21
Operator : RC/JU
Sample : P5306-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Quant Time: Dec 20 17:08:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

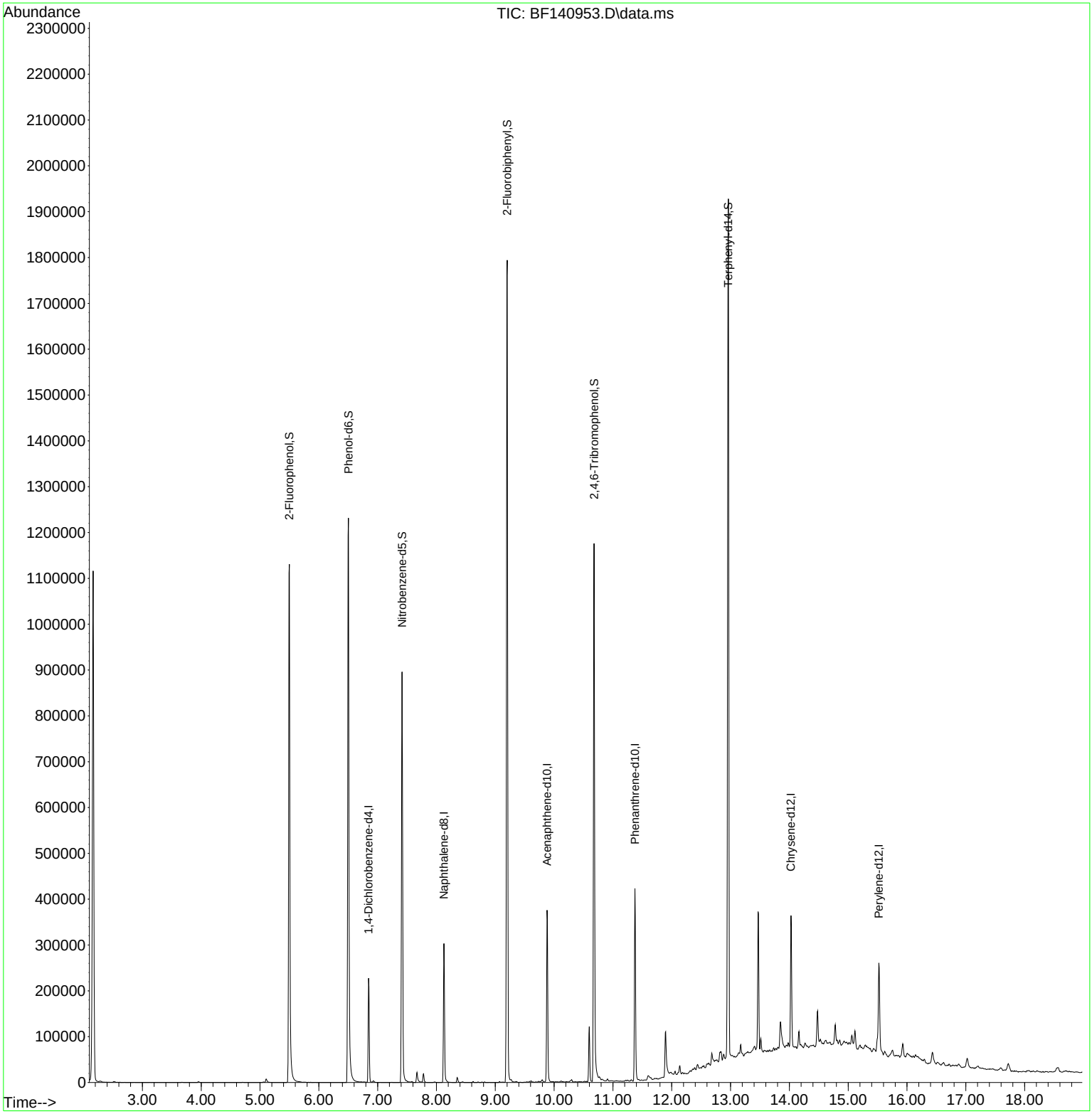
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	51335	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	204800	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	121841	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	231777	20.000	ng	0.00
76) Chrysene-d12	14.027	240	149412	20.000	ng	0.00
86) Perylene-d12	15.521	264	128778	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	501225	160.730	ng	0.01
7) Phenol-d6	6.504	99	663371	160.608	ng	0.00
23) Nitrobenzene-d5	7.416	82	433473	105.894	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	232425	161.291	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	857748	96.788	ng	0.00
79) Terphenyl-d14	12.963	244	991014	104.590	ng	0.00
Target Compounds						Qvalue

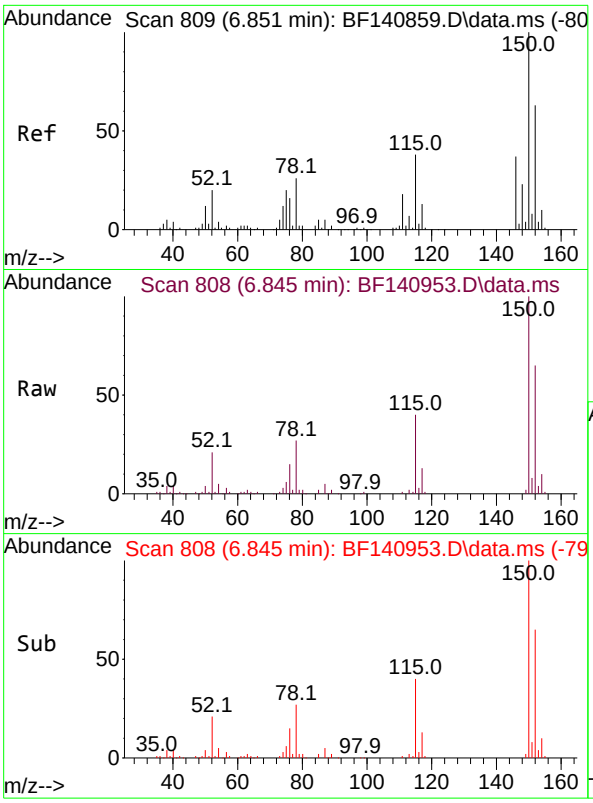
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140953.D
Acq On : 20 Dec 2024 16:21
Operator : RC/JU
Sample : P5306-03
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Quant Time: Dec 20 17:08:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



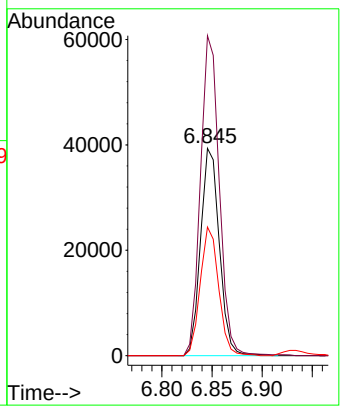


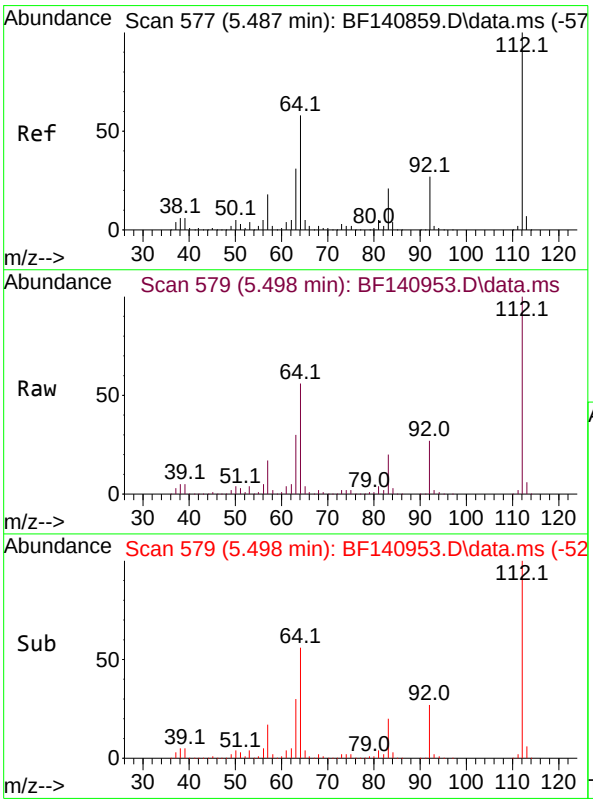
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Tgt Ion:152 Resp: 51335

Ion	Ratio	Lower	Upper
152	100		
150	154.3	127.9	191.9
115	62.0	48.0	72.0

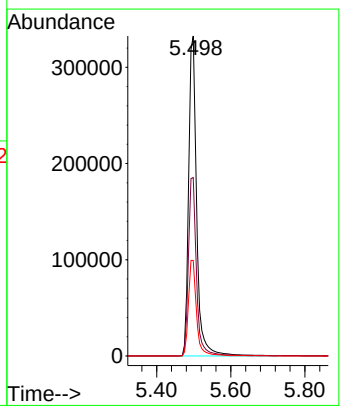


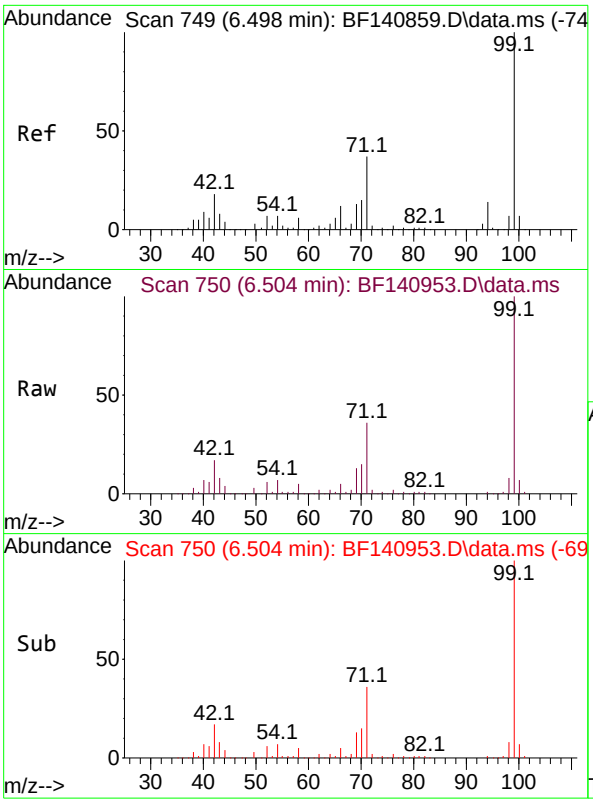


#5
2-Fluorophenol
Concen: 160.730 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Tgt Ion:112 Resp: 501225

Ion	Ratio	Lower	Upper
112	100		
64	55.7	46.1	69.1
63	29.8	24.9	37.3



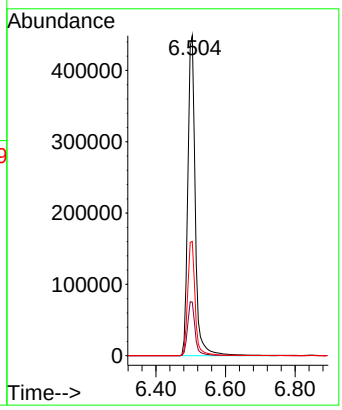


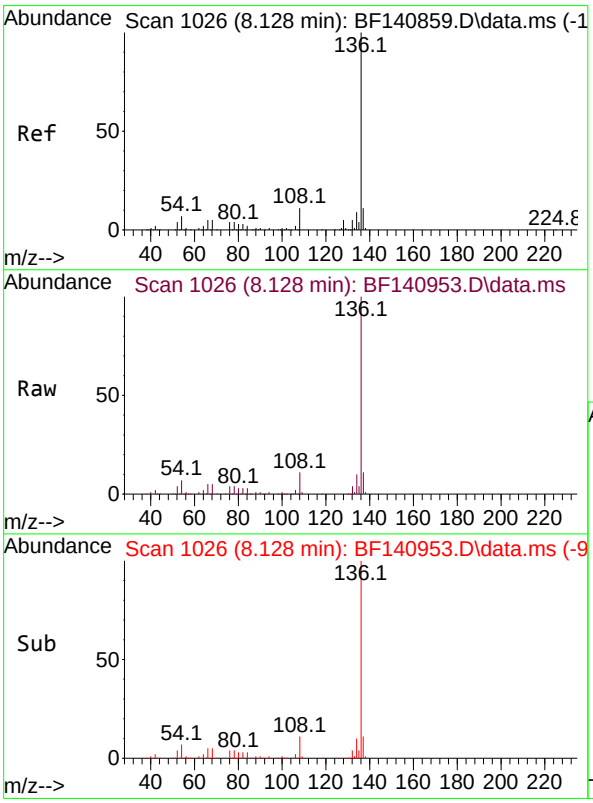
#7
Phenol-d6
Concen: 160.608 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Tgt Ion: 99 Resp: 663371

Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.3	21.5
71	35.7	29.9	44.9

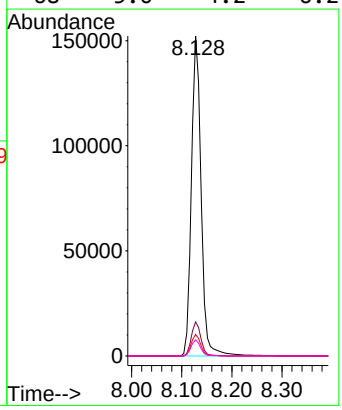


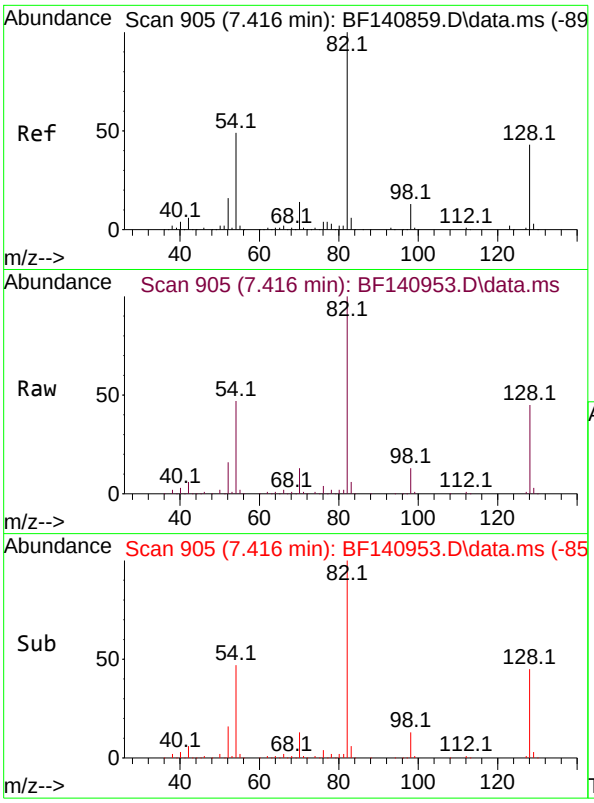


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Tgt Ion:136 Resp: 204800

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.4
54	6.7	5.6	8.4
68	5.0	4.2	6.2



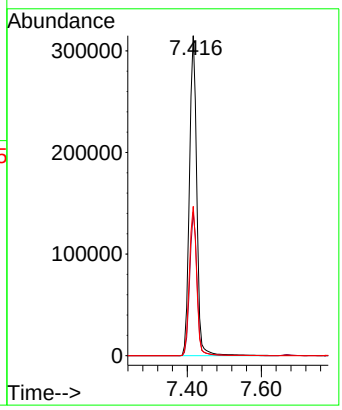


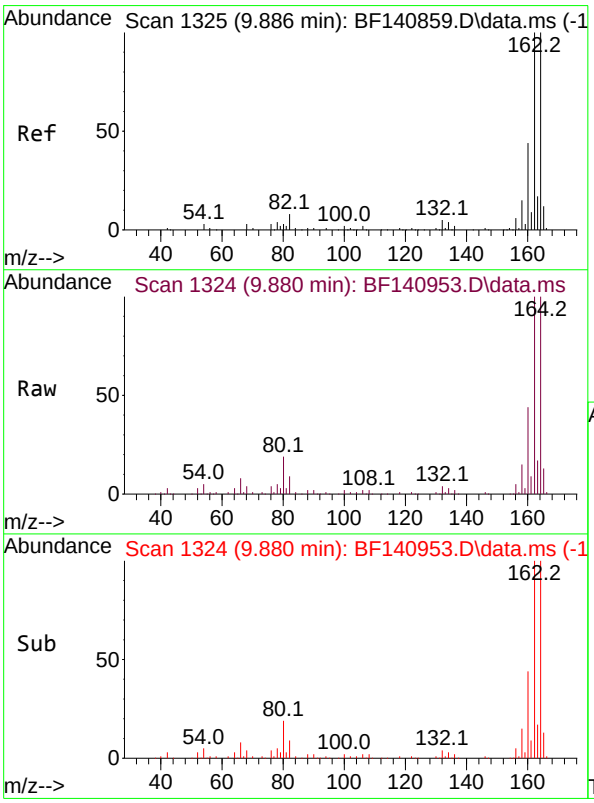
#23
Nitrobenzene-d5
Concen: 105.894 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Tgt Ion: 82 Resp: 433473

Ion	Ratio	Lower	Upper
82	100		
128	44.9	34.4	51.6
54	46.6	38.8	58.2

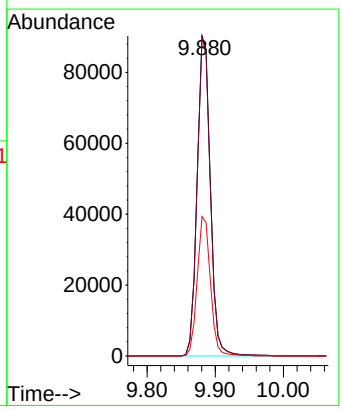


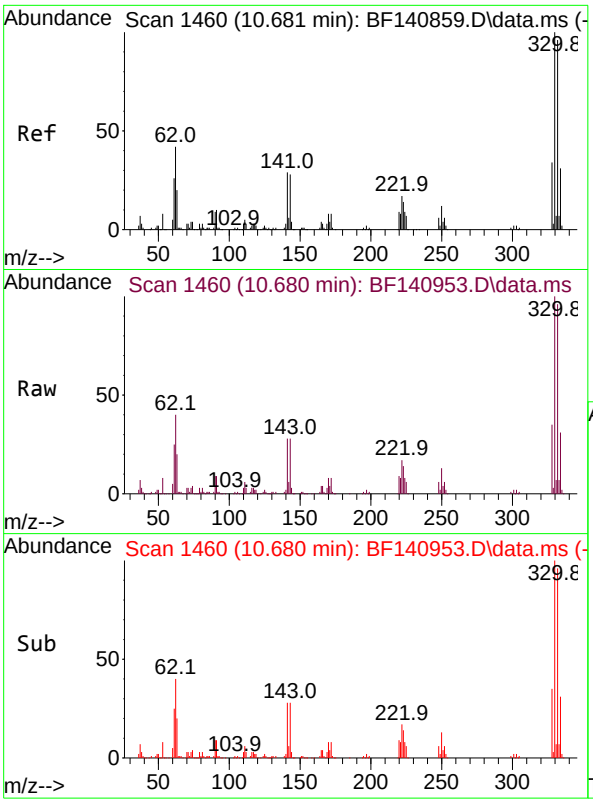


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Tgt Ion:164 Resp: 121841

Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.9	119.9
160	43.6	35.2	52.8



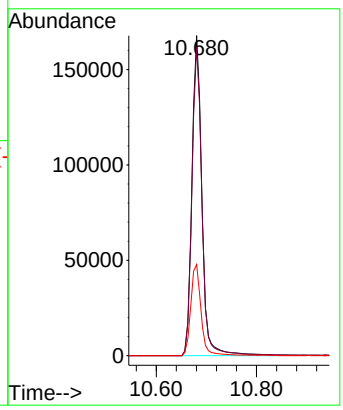


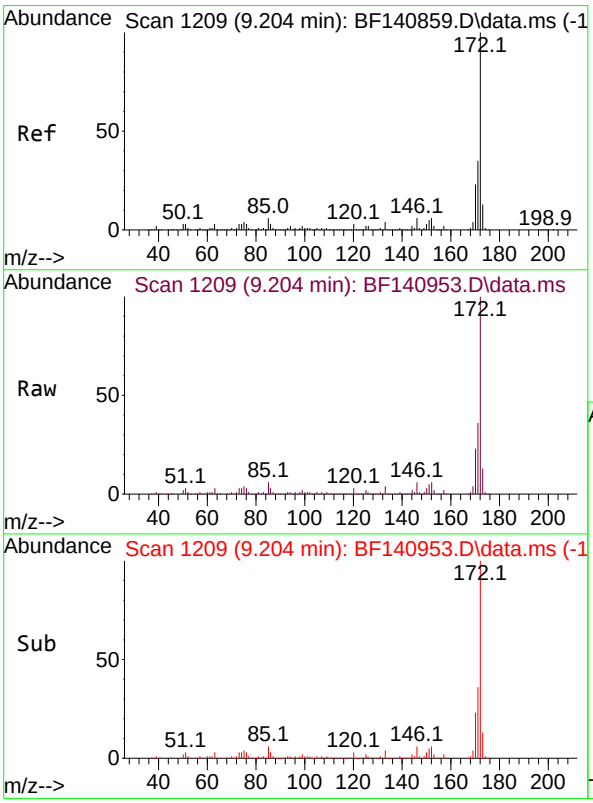
#42
2,4,6-Tribromophenol
Concen: 161.291 ng
RT: 10.680 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Tgt Ion:330 Resp: 232425

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.2	114.4
141	29.2	24.9	37.3

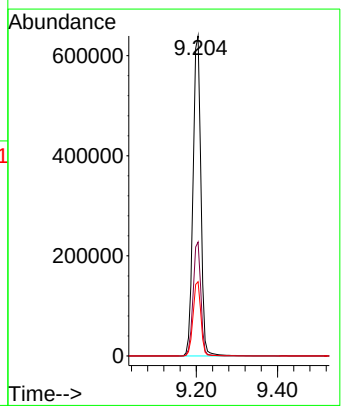


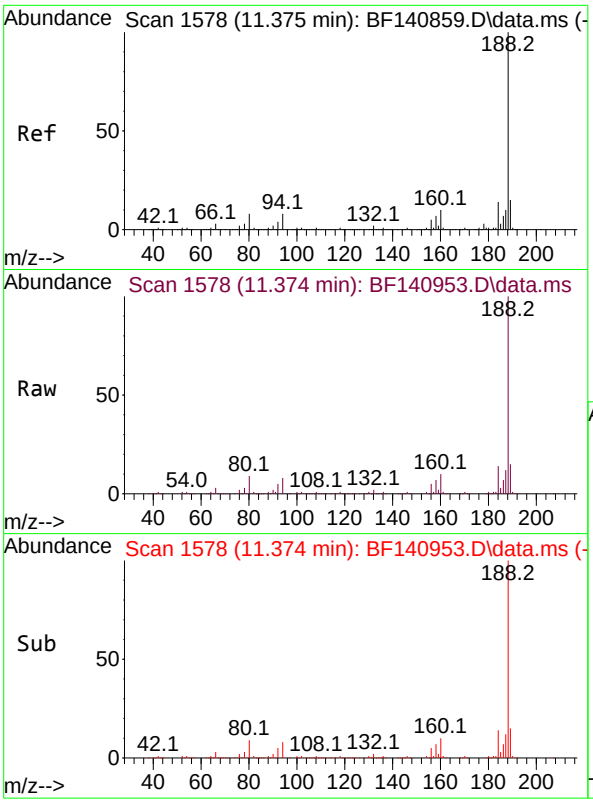


#45
2-Fluorobiphenyl
Concen: 96.788 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Tgt Ion:172 Resp: 857748

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.4	42.6
170	23.2	18.6	28.0



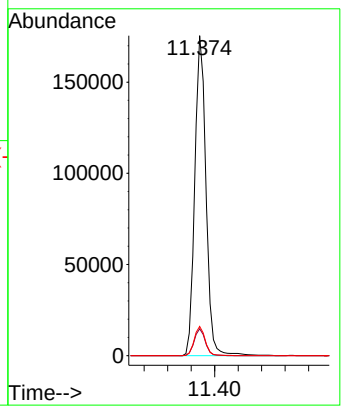


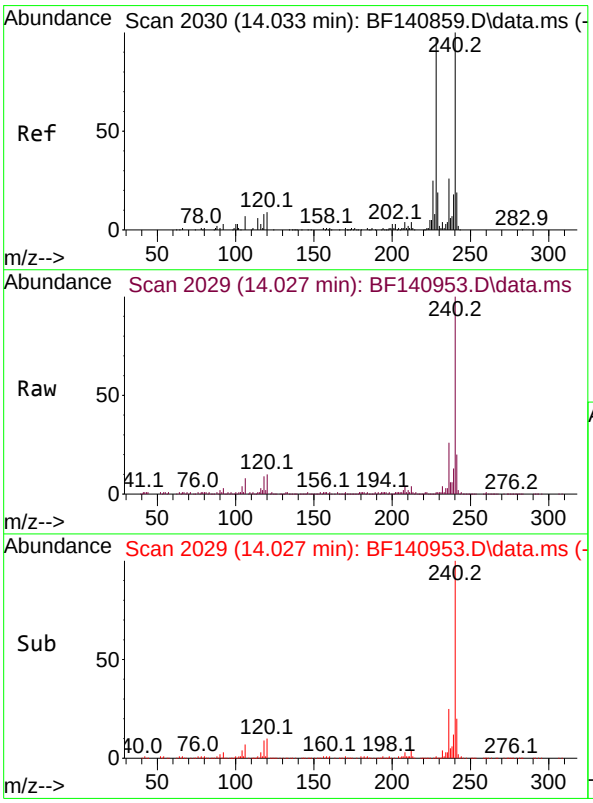
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Tgt Ion:188 Resp: 231777

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.4	9.6
80	9.2	6.8	10.2

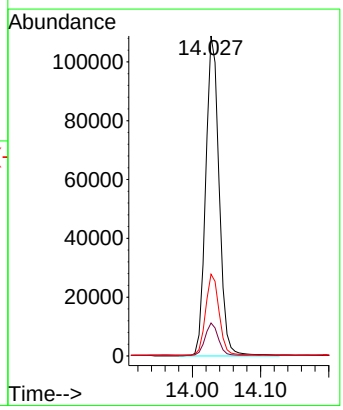


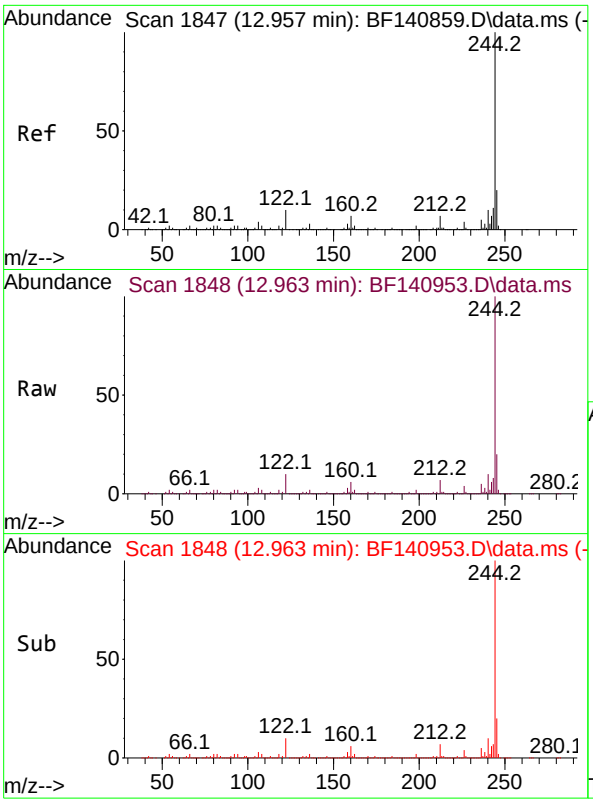


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Tgt Ion:240 Resp: 149412

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.6	11.4
236	25.5	20.5	30.7



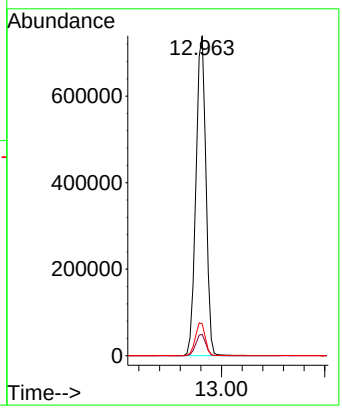


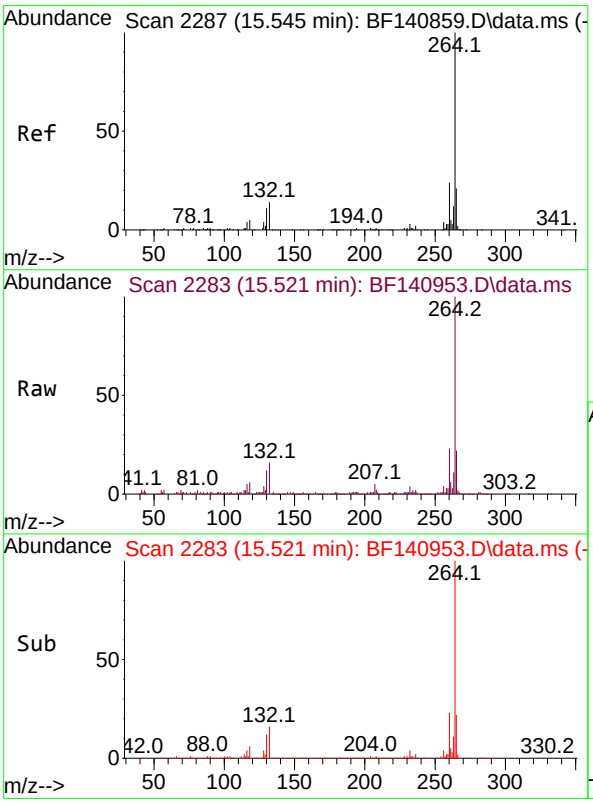
#79
Terphenyl-d14
Concen: 104.590 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-08-121224

Tgt Ion:244 Resp: 991014

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.0	8.2	12.2

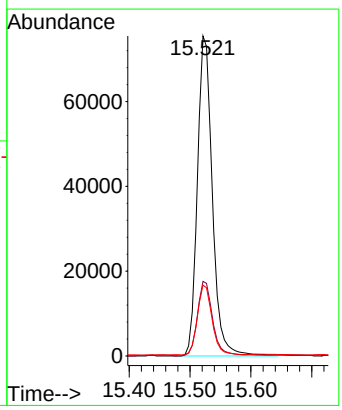




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140953.D
Acq: 20 Dec 2024 16:21

Tgt Ion:264 Resp: 128778

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.1	28.7
265	22.2	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-09-121224	SDG No.:	P5306
Lab Sample ID:	P5306-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140954.D	1	12/18/24 08:56	12/20/24 16:48	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.092	0.14	0.19	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.096	0.14	0.19	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.090	0.14	0.19	mg/Kg
86-73-7	Fluorene	0.14	U	0.095	0.14	0.19	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.093	0.14	0.19	mg/Kg
120-12-7	Anthracene	0.14	U	0.094	0.14	0.19	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.091	0.14	0.19	mg/Kg
129-00-0	Pyrene	0.14	U	0.092	0.14	0.19	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
218-01-9	Chrysene	0.14	U	0.088	0.14	0.19	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.090	0.14	0.19	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.092	0.14	0.19	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.10	0.14	0.19	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.087	0.14	0.19	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.090	0.14	0.19	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.089	0.14	0.19	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	111		37 - 122		111%	SPK: 100
321-60-8	2-Fluorobiphenyl	107		44 - 115		107%	SPK: 100
1718-51-0	Terphenyl-d14	91.5		54 - 127		91%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	47900	6.845				
1146-65-2	Naphthalene-d8	188000	8.128				
15067-26-2	Acenaphthene-d10	108000	9.88				
1517-22-2	Phenanthrene-d10	210000	11.374				
1719-03-5	Chrysene-d12	160000	14.027				
1520-96-3	Perylene-d12	119000	15.521				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-09-121224	SDG No.:	P5306
Lab Sample ID:	P5306-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.1
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140954.D	1	12/18/24 08:56	12/20/24 16:48	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140954.D
Acq On : 20 Dec 2024 16:48
Operator : RC/JU
Sample : P5306-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Quant Time: Dec 20 21:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

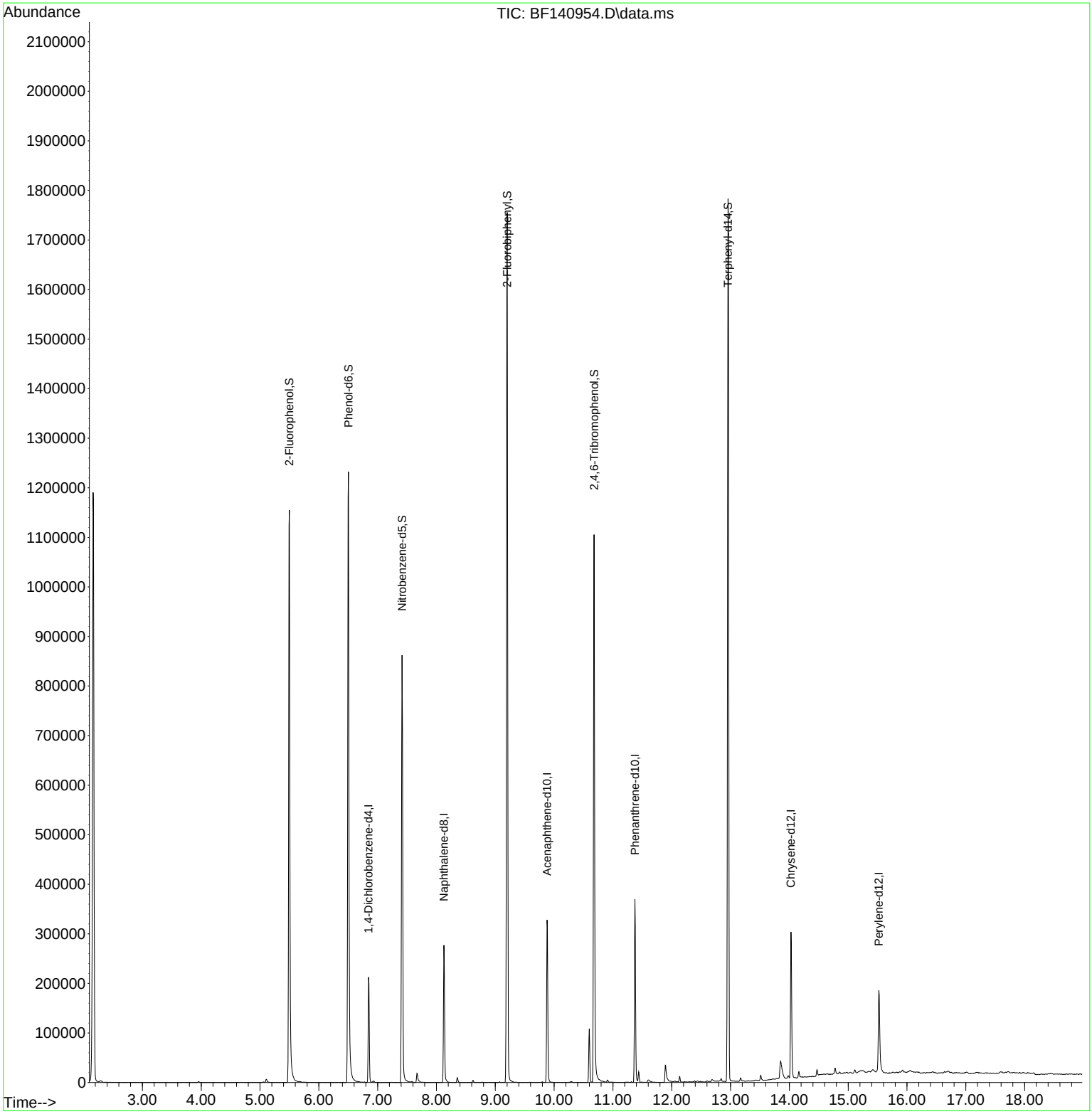
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	47850	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	188298	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	108152	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	209762	20.000	ng	0.00
76) Chrysene-d12	14.027	240	160469	20.000	ng	0.00
86) Perylene-d12	15.521	264	118975	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	503371	173.175	ng	0.01
7) Phenol-d6	6.504	99	661799	171.897	ng	0.00
23) Nitrobenzene-d5	7.416	82	417963	111.053	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	213331	166.778	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	842540	107.105	ng	0.00
79) Terphenyl-d14	12.957	244	931004	91.486	ng	0.00
Target Compounds						Qvalue

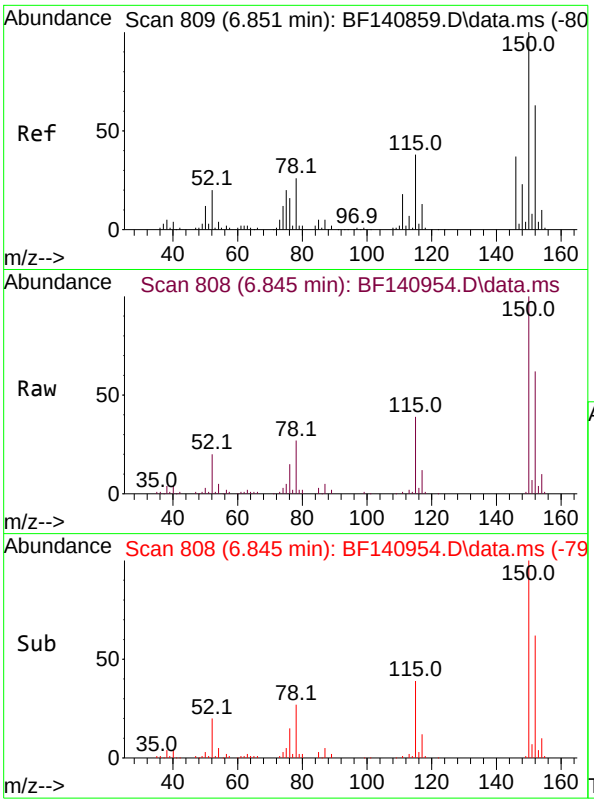
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140954.D
Acq On : 20 Dec 2024 16:48
Operator : RC/JU
Sample : P5306-05
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Quant Time: Dec 20 21:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



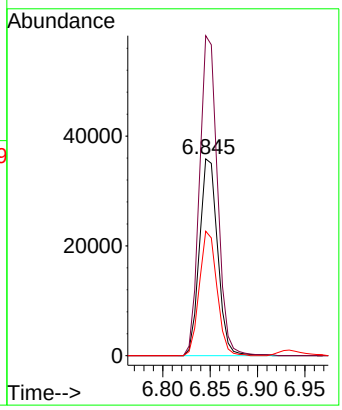


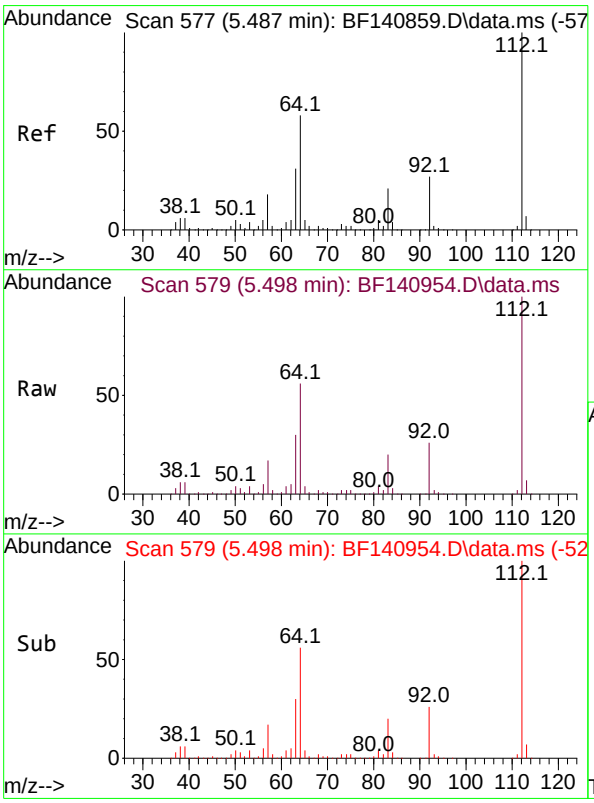
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Tgt Ion:152 Resp: 47850

Ion	Ratio	Lower	Upper
152	100		
150	162.5	127.9	191.9
115	63.3	48.0	72.0

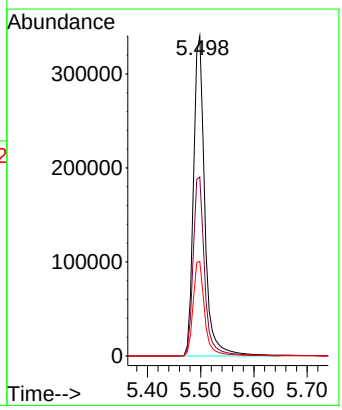


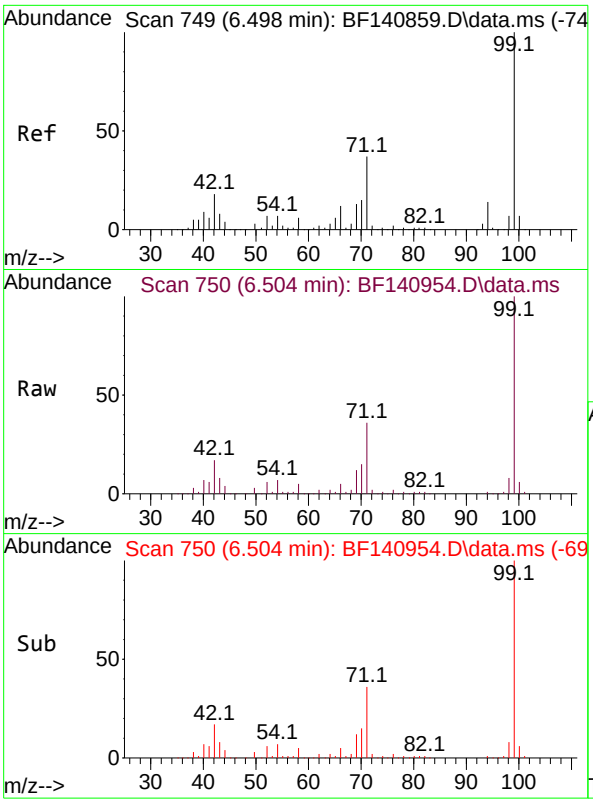


#5
2-Fluorophenol
Concen: 173.175 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Tgt Ion:112 Resp: 503371

Ion	Ratio	Lower	Upper
112	100		
64	56.0	46.1	69.1
63	29.5	24.9	37.3



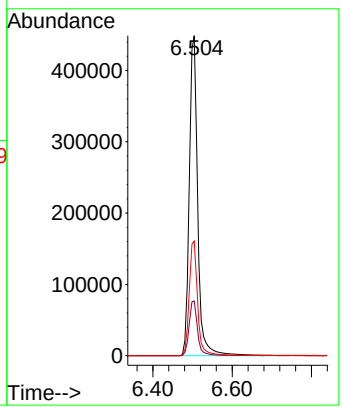


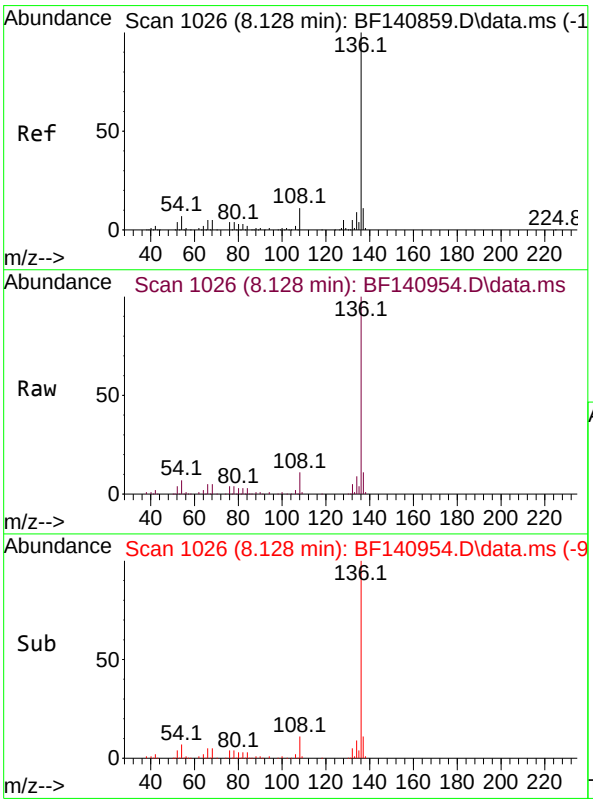
#7
Phenol-d6
Concen: 171.897 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Tgt Ion: 99 Resp: 661799

Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.3	21.5
71	35.8	29.9	44.9

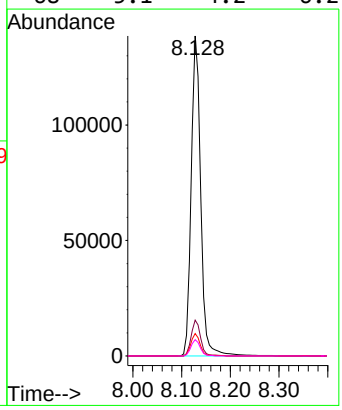


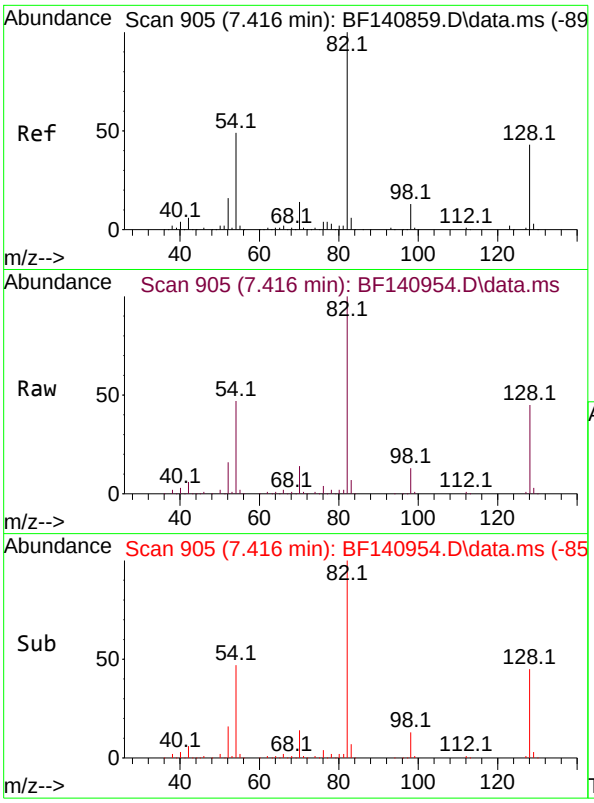


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Tgt Ion:136 Resp: 188298

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.0	5.6	8.4
68	5.1	4.2	6.2



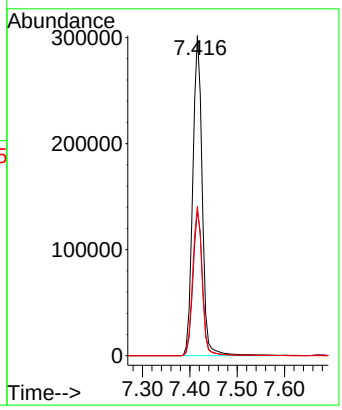


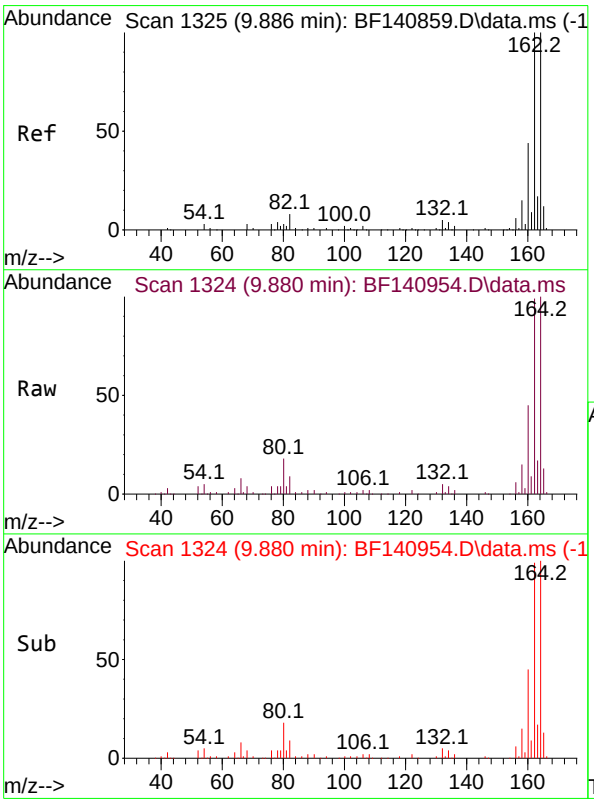
#23
Nitrobenzene-d5
Concen: 111.053 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Tgt Ion: 82 Resp: 417963

Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.4	51.6
54	46.6	38.8	58.2

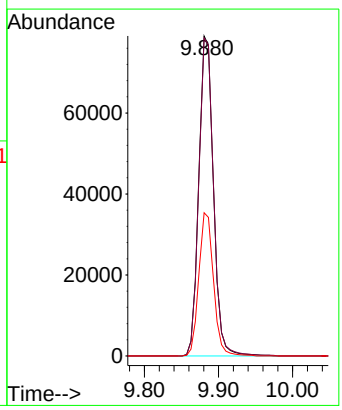


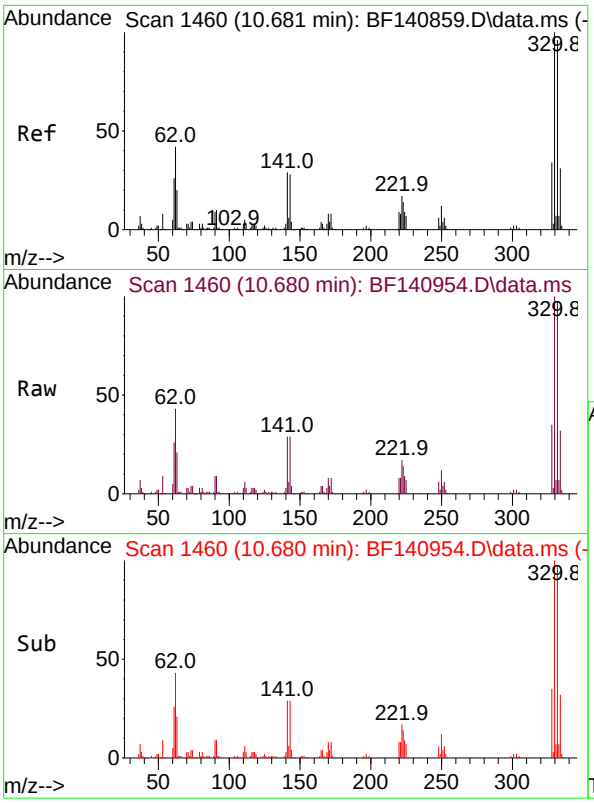


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Tgt Ion:164 Resp: 108152

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.9	119.9
160	44.8	35.2	52.8



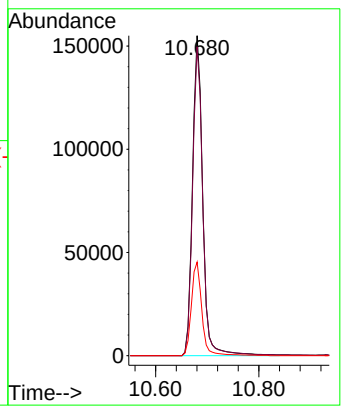


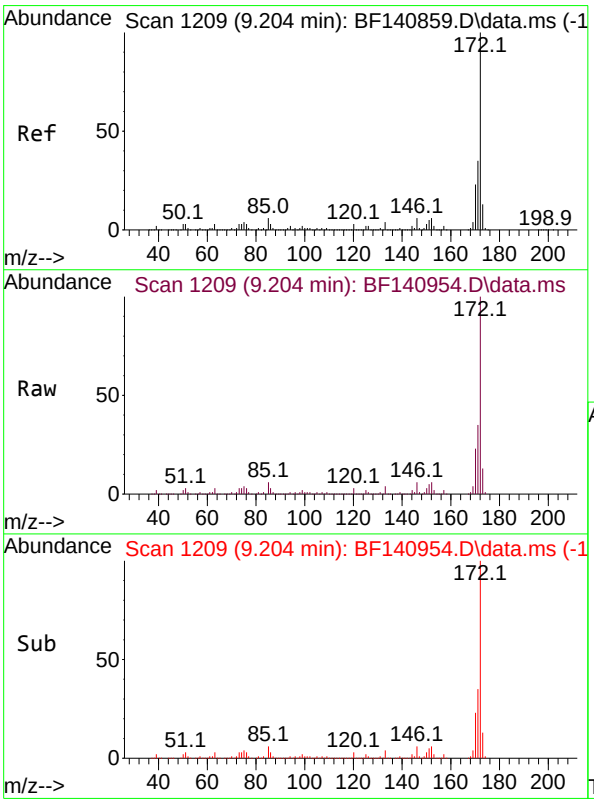
#42
2,4,6-Tribromophenol
Concen: 166.778 ng
RT: 10.680 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Tgt Ion:330 Resp: 213331

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.2	114.4
141	29.9	24.9	37.3

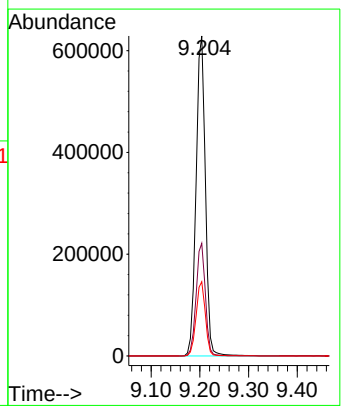


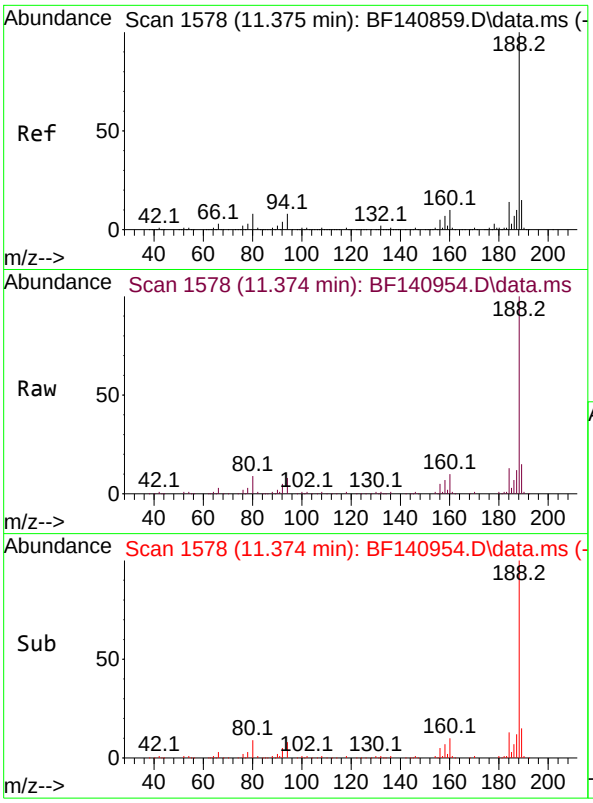


#45
2-Fluorobiphenyl
Concen: 107.105 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Tgt Ion:172 Resp: 842540

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.2	18.6	28.0



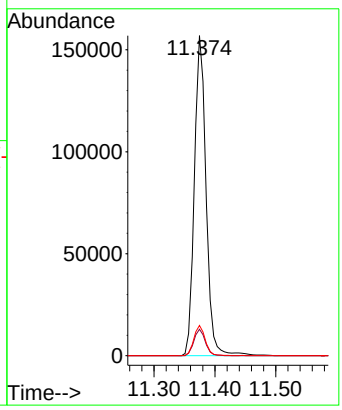


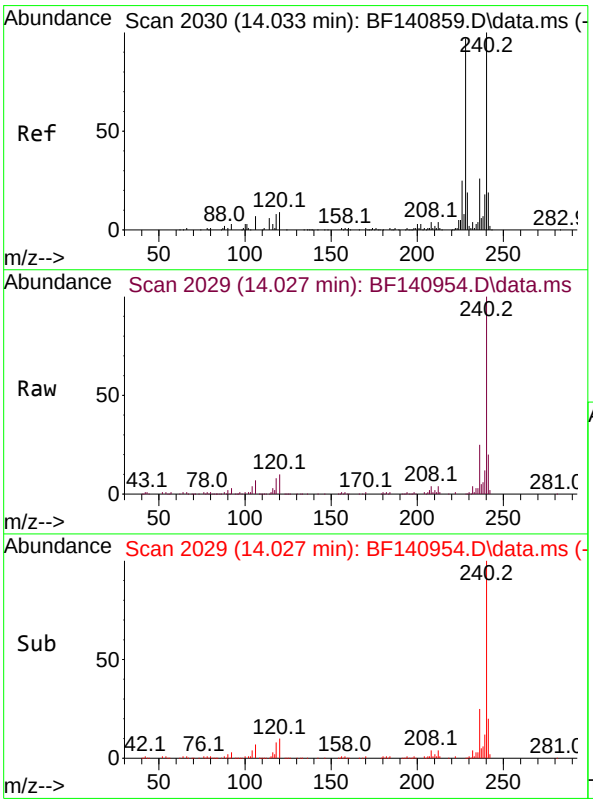
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Tgt Ion:188 Resp: 209762

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.4	9.6
80	9.4	6.8	10.2

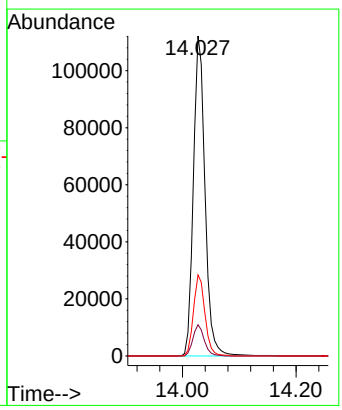


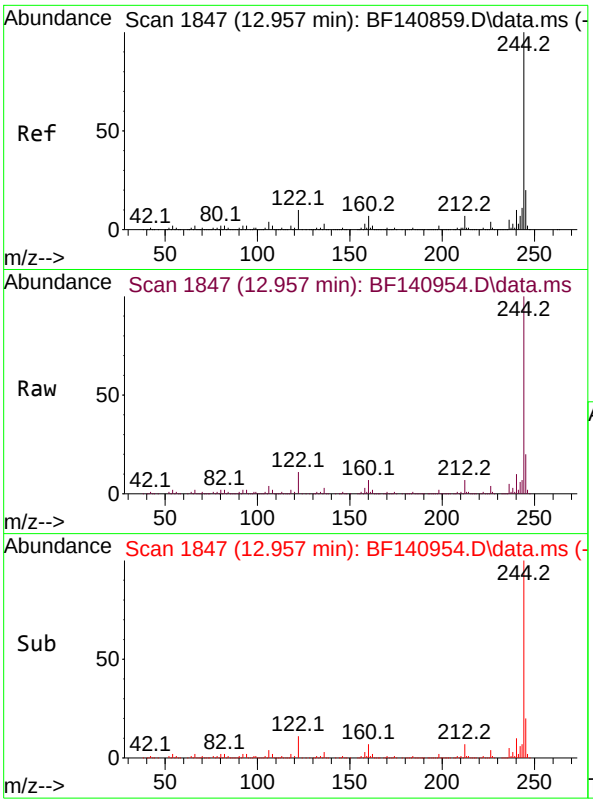


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Tgt Ion:240 Resp: 160469

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.6	11.4
236	25.3	20.5	30.7



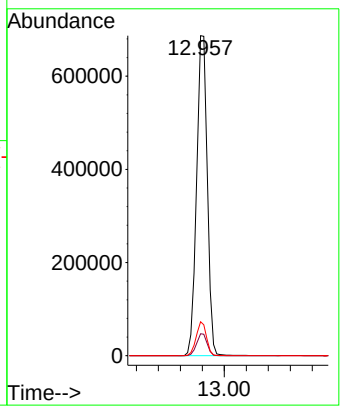


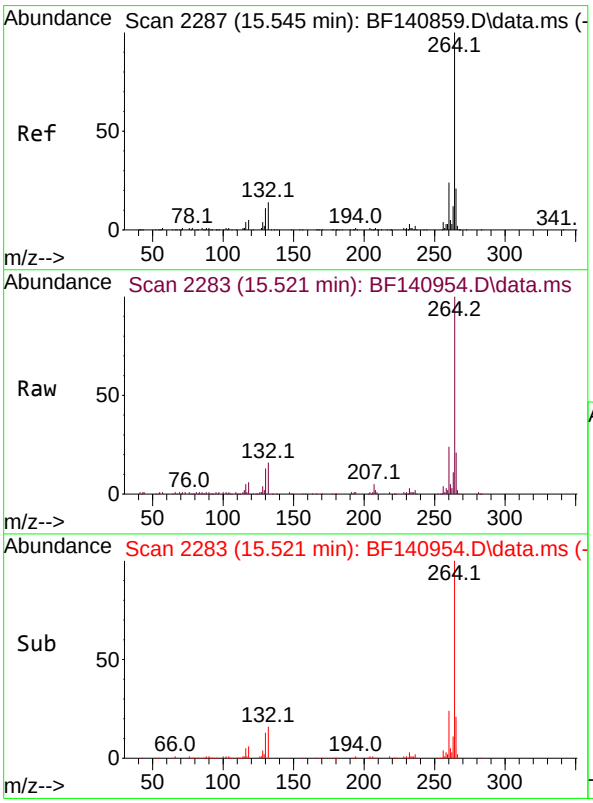
#79
Terphenyl-d14
Concen: 91.486 ng
RT: 12.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-09-121224

Tgt Ion:244 Resp: 931004

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.6	8.2	12.2

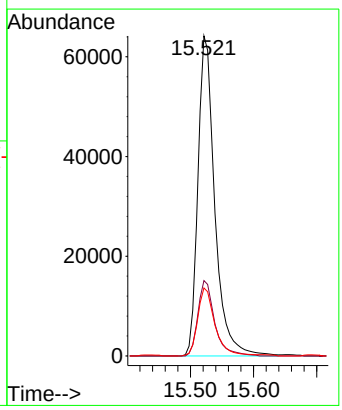




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140954.D
Acq: 20 Dec 2024 16:48

Tgt Ion:264 Resp: 118975

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	21.3	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-10-121224	SDG No.:	P5306
Lab Sample ID:	P5306-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	95
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140955.D	1	12/18/24 08:56	12/20/24 17:14	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.087	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.087	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.091	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.085	0.14	0.18	mg/Kg
86-73-7	Fluorene	0.14	U	0.090	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.088	0.14	0.18	mg/Kg
120-12-7	Anthracene	0.14	U	0.089	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.086	0.14	0.18	mg/Kg
129-00-0	Pyrene	0.14	U	0.087	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.085	0.14	0.18	mg/Kg
218-01-9	Chrysene	0.14	U	0.084	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.085	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.087	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.098	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.082	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.085	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.084	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	105		37 - 122		105%	SPK: 100
321-60-8	2-Fluorobiphenyl	107		44 - 115		107%	SPK: 100
1718-51-0	Terphenyl-d14	102		54 - 127		102%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	49600	6.846				
1146-65-2	Naphthalene-d8	194000	8.128				
15067-26-2	Acenaphthene-d10	109000	9.881				
1517-22-2	Phenanthrene-d10	209000	11.375				
1719-03-5	Chrysene-d12	160000	14.027				
1520-96-3	Perylene-d12	129000	15.516				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-10-121224	SDG No.:	P5306
Lab Sample ID:	P5306-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	95
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140955.D	1	12/18/24 08:56	12/20/24 17:14	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140955.D
Acq On : 20 Dec 2024 17:14
Operator : RC/JU
Sample : P5306-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Quant Time: Dec 20 21:59:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

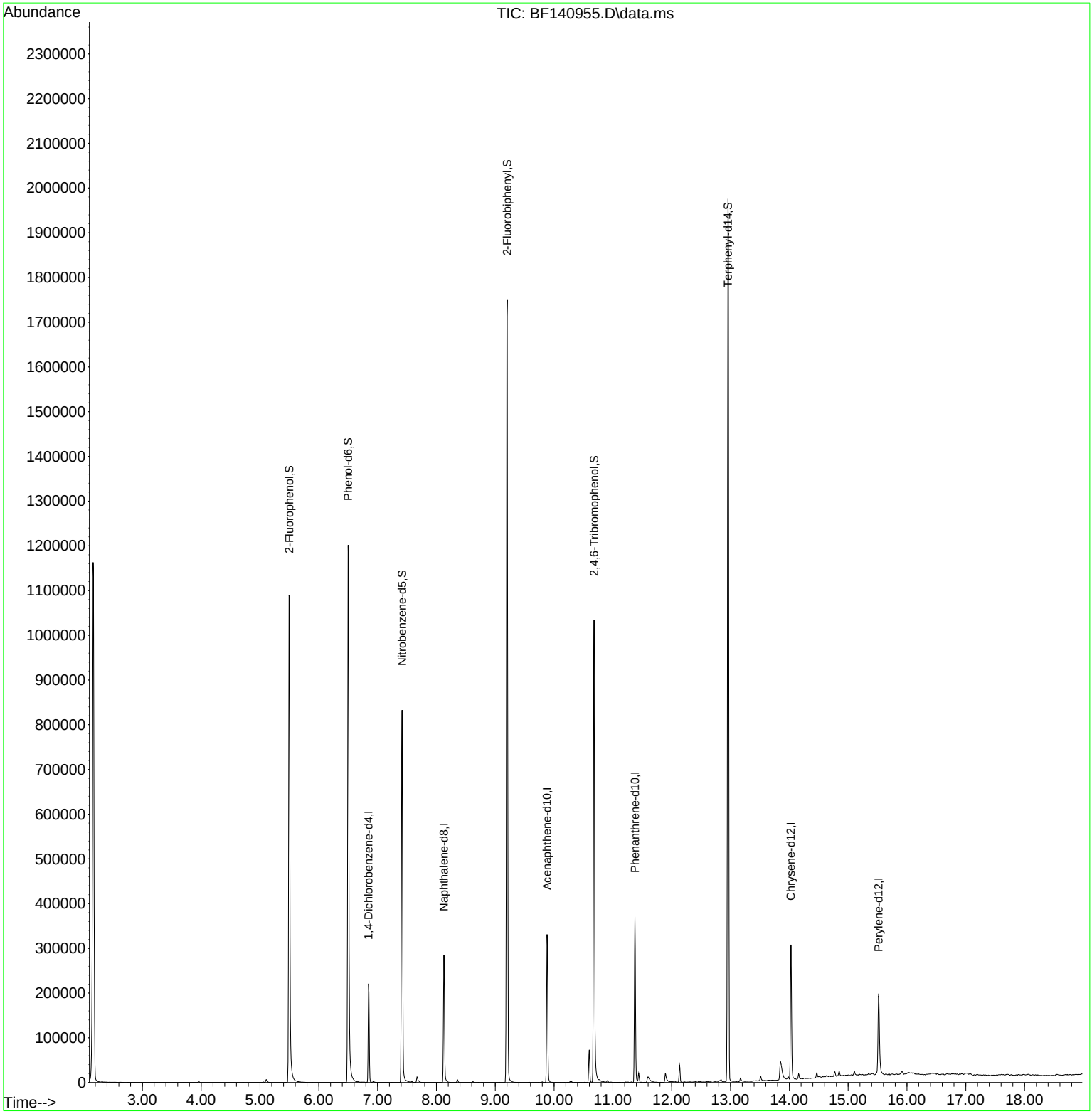
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	49587	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	194335	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	109105	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	208663	20.000	ng	0.00
76) Chrysene-d12	14.027	240	159926	20.000	ng	0.00
86) Perylene-d12	15.516	264	129368	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	481301	159.782	ng	0.01
7) Phenol-d6	6.498	99	649038	162.677	ng	0.00
23) Nitrobenzene-d5	7.416	82	406749	104.717	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	201064	155.815	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	847579	106.805	ng	0.00
79) Terphenyl-d14	12.957	244	1029776	101.536	ng	0.00
Target Compounds						Qvalue

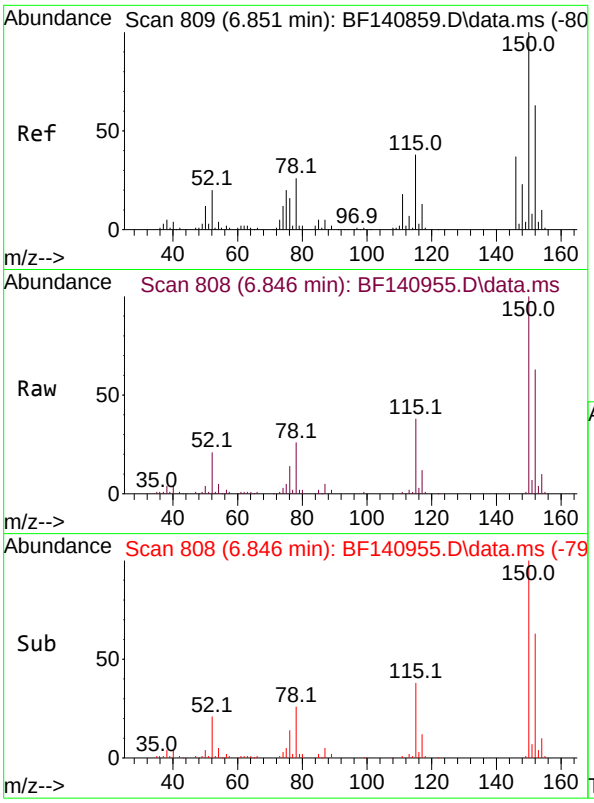
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140955.D
Acq On : 20 Dec 2024 17:14
Operator : RC/JU
Sample : P5306-07
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Quant Time: Dec 20 21:59:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



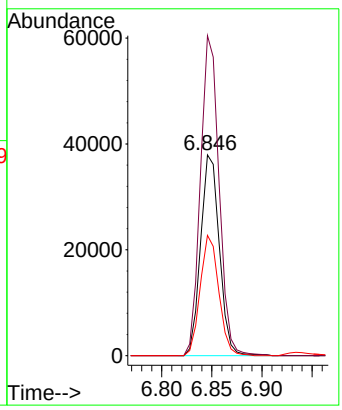


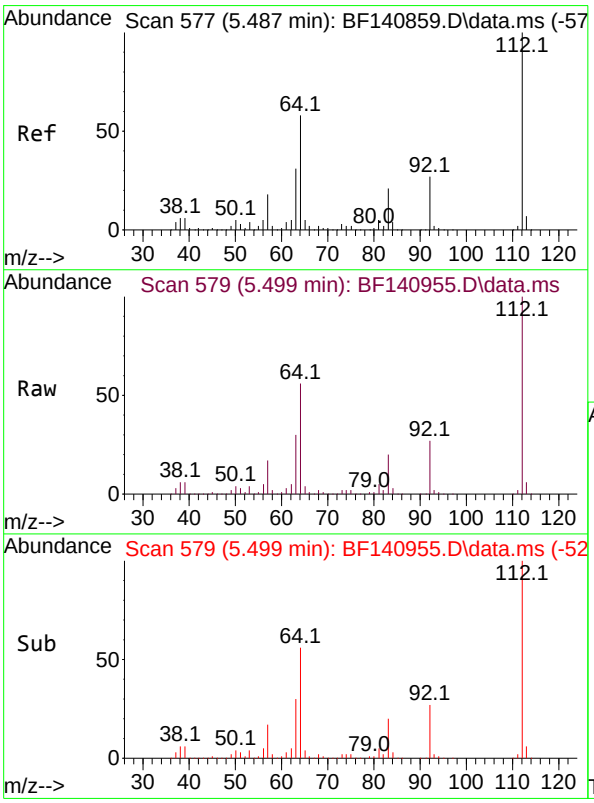
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Tgt Ion:152 Resp: 49587

Ion	Ratio	Lower	Upper
152	100		
150	159.3	127.9	191.9
115	59.9	48.0	72.0

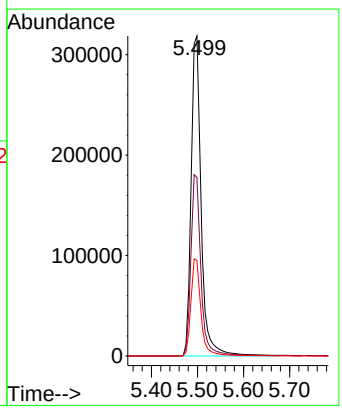


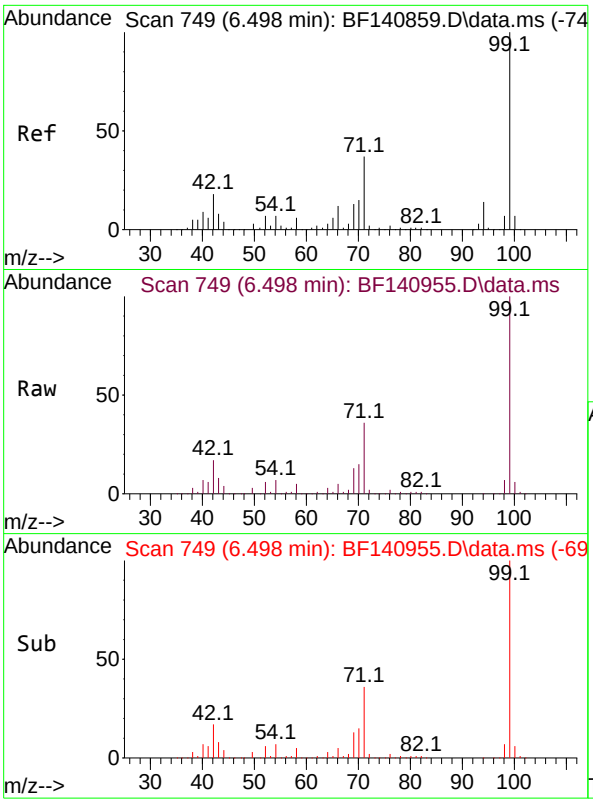


#5
2-Fluorophenol
Concen: 159.782 ng
RT: 5.499 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Tgt Ion:112 Resp: 481301

Ion	Ratio	Lower	Upper
112	100		
64	55.8	46.1	69.1
63	29.8	24.9	37.3



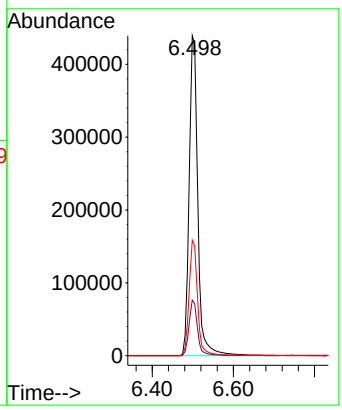


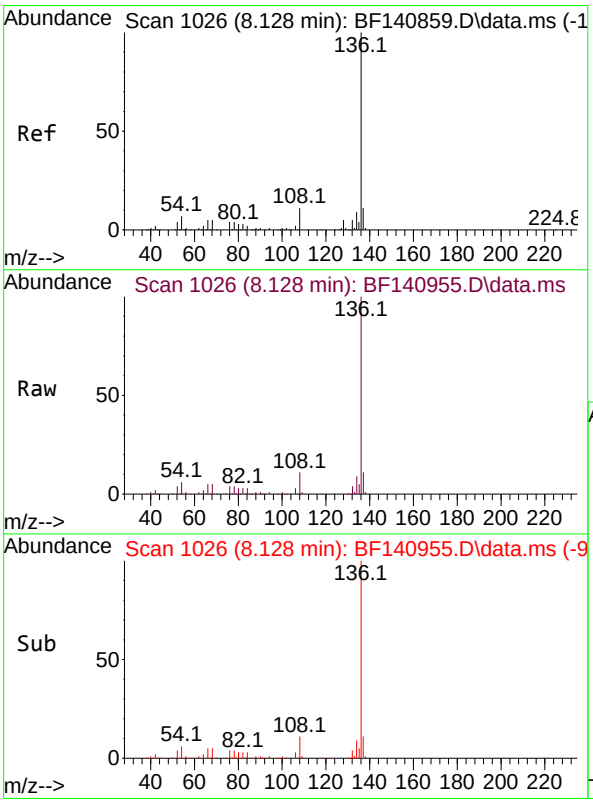
#7
Phenol-d6
Concen: 162.677 ng
RT: 6.498 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Tgt Ion: 99 Resp: 649038

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.3	21.5
71	36.1	29.9	44.9

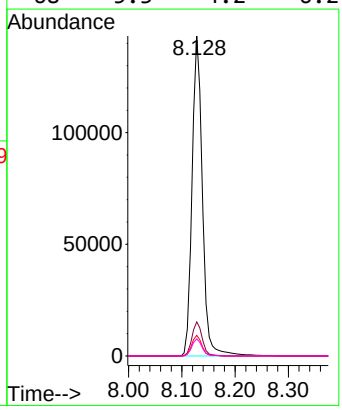


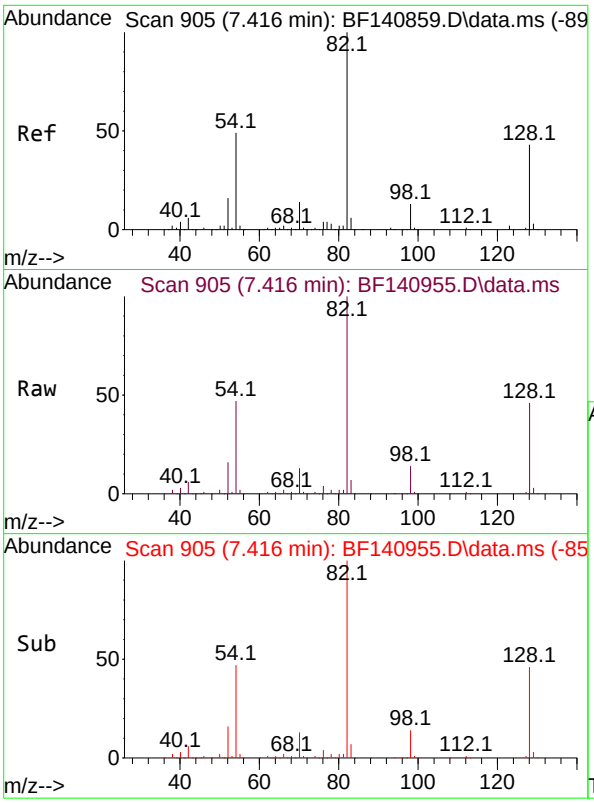


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Tgt Ion:136 Resp: 194335

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.4	5.6	8.4
68	5.3	4.2	6.2



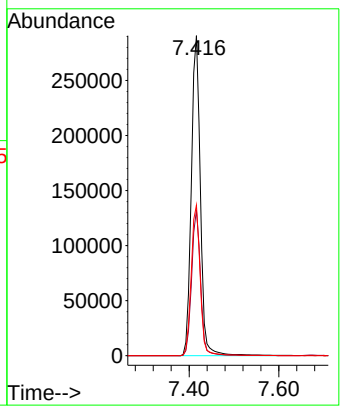


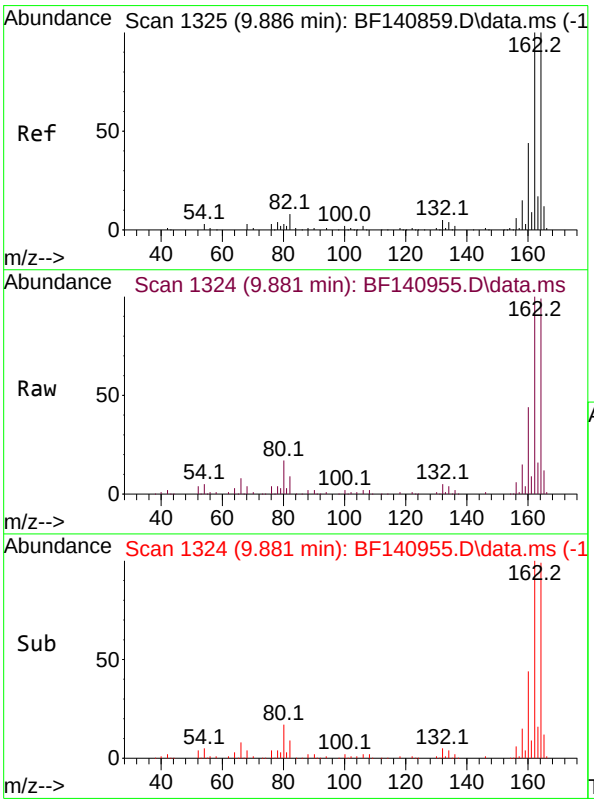
#23
Nitrobenzene-d5
Concen: 104.717 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Tgt Ion: 82 Resp: 406749

Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.4	51.6
54	47.1	38.8	58.2

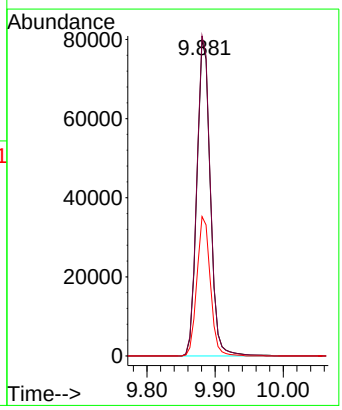


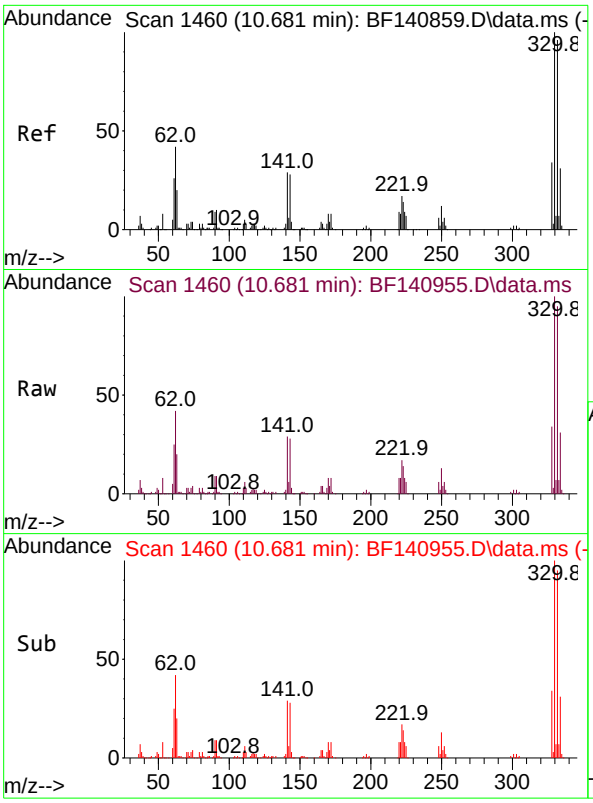


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Tgt Ion:164 Resp: 109105

Ion	Ratio	Lower	Upper
164	100		
162	101.1	79.9	119.9
160	44.1	35.2	52.8



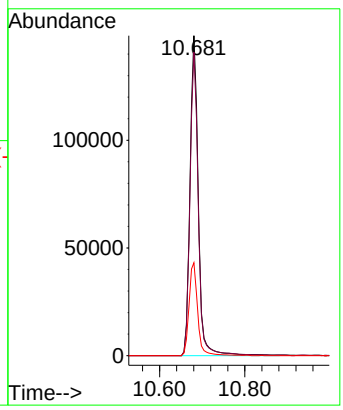


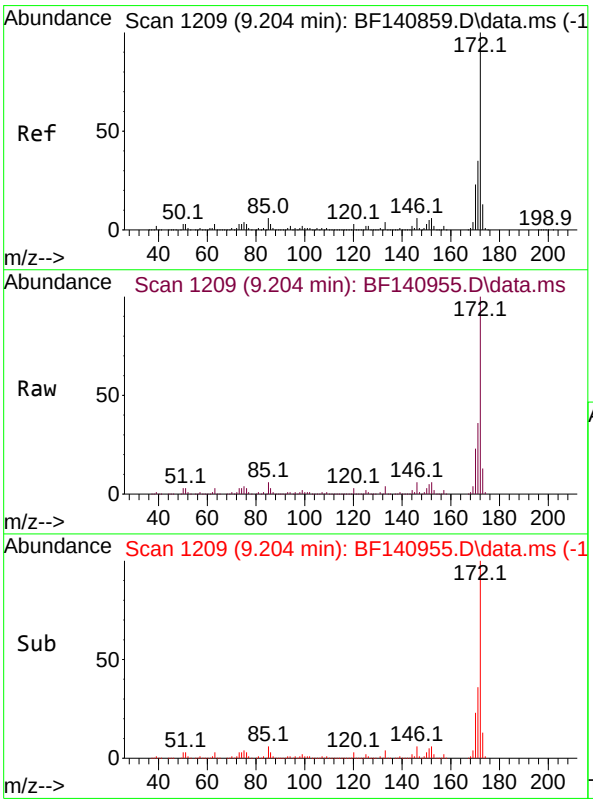
#42
2,4,6-Tribromophenol
Concen: 155.815 ng
RT: 10.681 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Tgt Ion:330 Resp: 201064

Ion	Ratio	Lower	Upper
330	100		
332	95.0	76.2	114.4
141	30.2	24.9	37.3

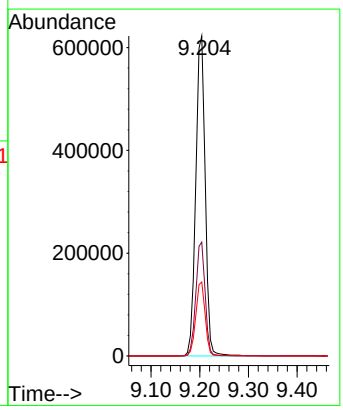


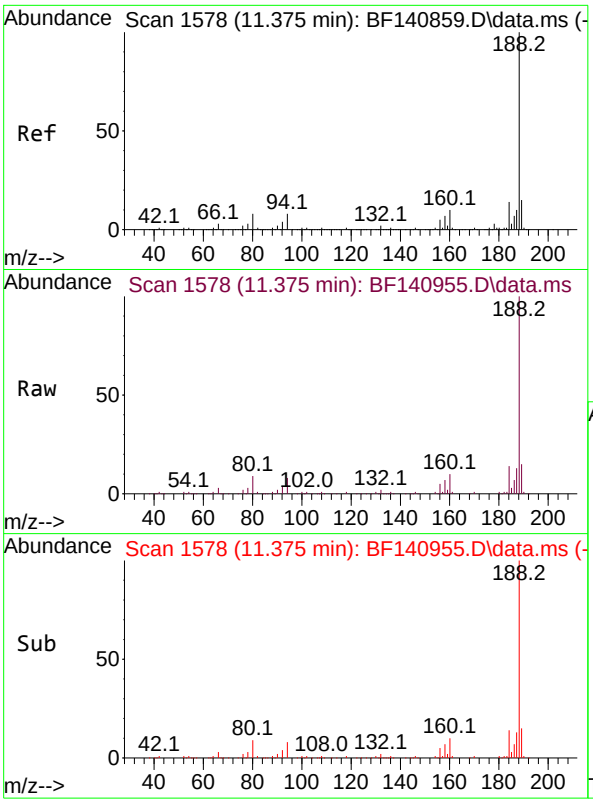


#45
2-Fluorobiphenyl
Concen: 106.805 ng
RT: 9.204 min Scan# 1209
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Tgt Ion:172 Resp: 847579

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.4	42.6
170	23.1	18.6	28.0



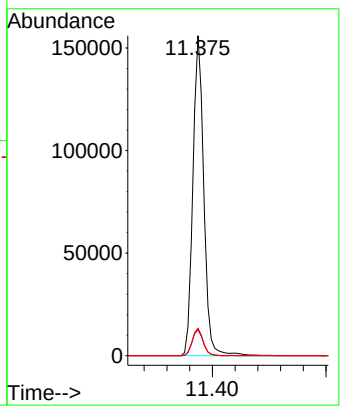


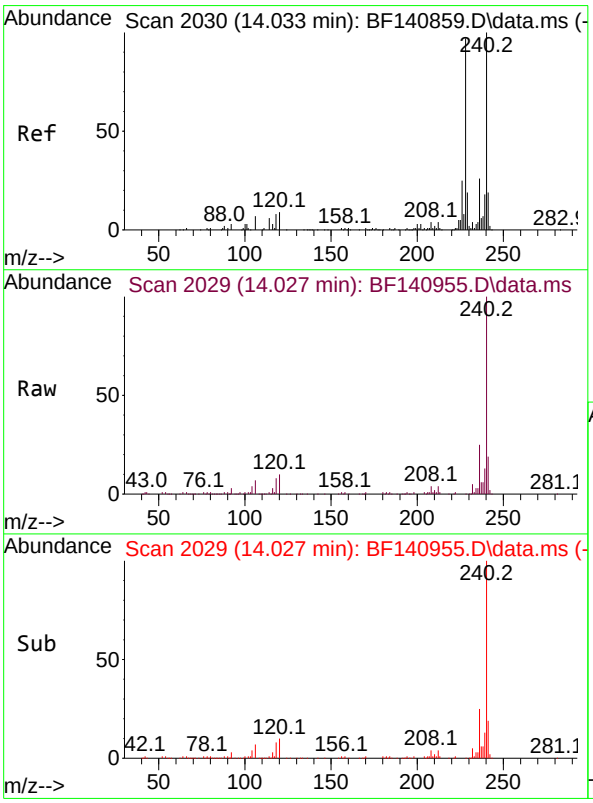
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Tgt Ion:188 Resp: 208663

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.4	9.6
80	8.6	6.8	10.2

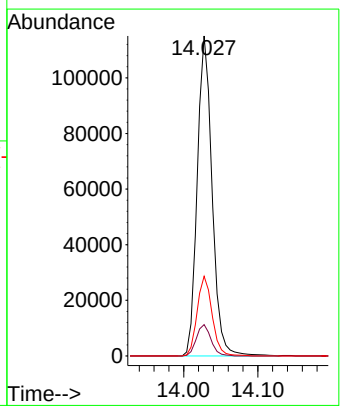


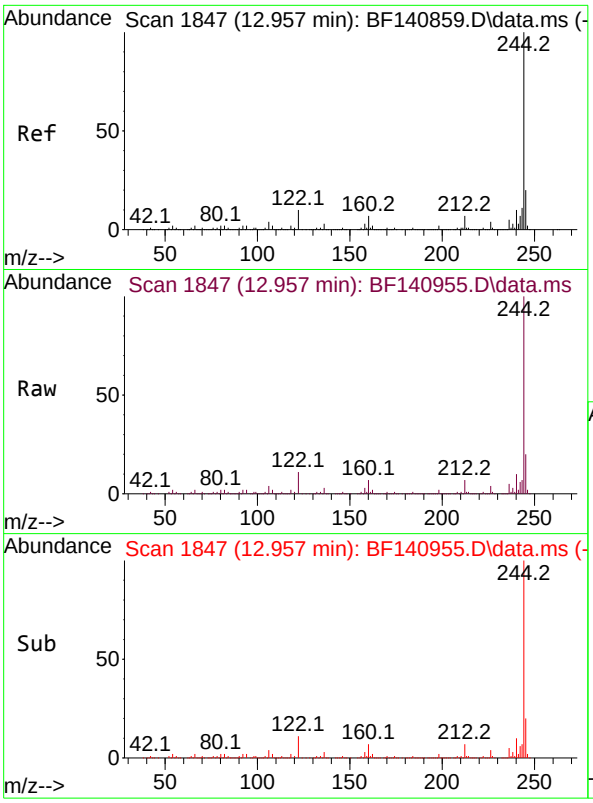


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Tgt Ion:240 Resp: 159926

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.6	11.4
236	24.9	20.5	30.7



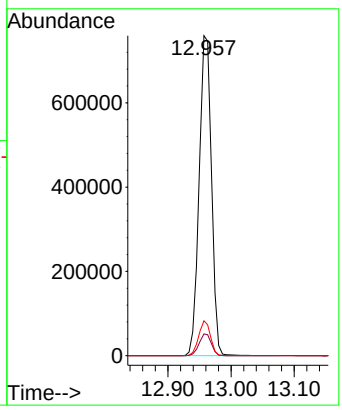


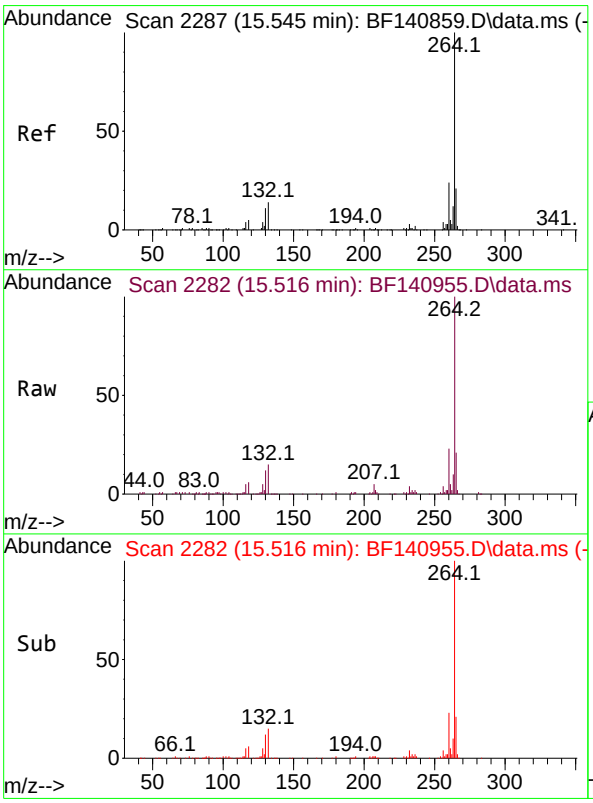
#79
Terphenyl-d14
Concen: 101.536 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-10-121224

Tgt Ion:244 Resp: 1029776

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.9	8.2	12.2

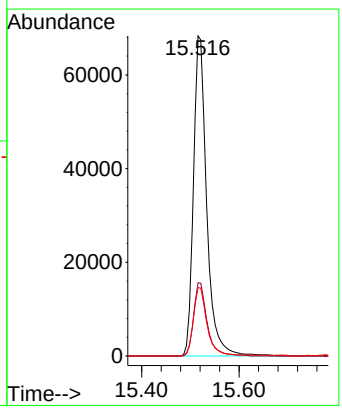




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2282
Delta R.T. -0.029 min
Lab File: BF140955.D
Acq: 20 Dec 2024 17:14

Tgt Ion:264 Resp: 129368

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.1	28.7
265	21.3	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224	SDG No.:	P5306
Lab Sample ID:	P5306-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140947.D	1	12/18/24 08:56	12/20/24 13:44	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.088	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.088	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.092	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.087	0.14	0.18	mg/Kg
86-73-7	Fluorene	0.14	U	0.091	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.090	0.14	0.18	mg/Kg
120-12-7	Anthracene	0.14	U	0.090	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.087	0.14	0.18	mg/Kg
129-00-0	Pyrene	0.14	U	0.089	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.086	0.14	0.18	mg/Kg
218-01-9	Chrysene	0.14	U	0.085	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.087	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.088	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.099	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.083	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.087	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.085	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	73.5		37 - 122		73%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		44 - 115		73%	SPK: 100
1718-51-0	Terphenyl-d14	60.7		54 - 127		61%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	58000	6.846				
1146-65-2	Naphthalene-d8	220000	8.128				
15067-26-2	Acenaphthene-d10	122000	9.886				
1517-22-2	Phenanthrene-d10	255000	11.375				
1719-03-5	Chrysene-d12	180000	14.027				
1520-96-3	Perylene-d12	134000	15.521				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224	SDG No.:	P5306
Lab Sample ID:	P5306-09	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140947.D	1	12/18/24 08:56	12/20/24 13:44	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140947.D
Acq On : 20 Dec 2024 13:44
Operator : RC/JU
Sample : P5306-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Quant Time: Dec 20 14:17:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

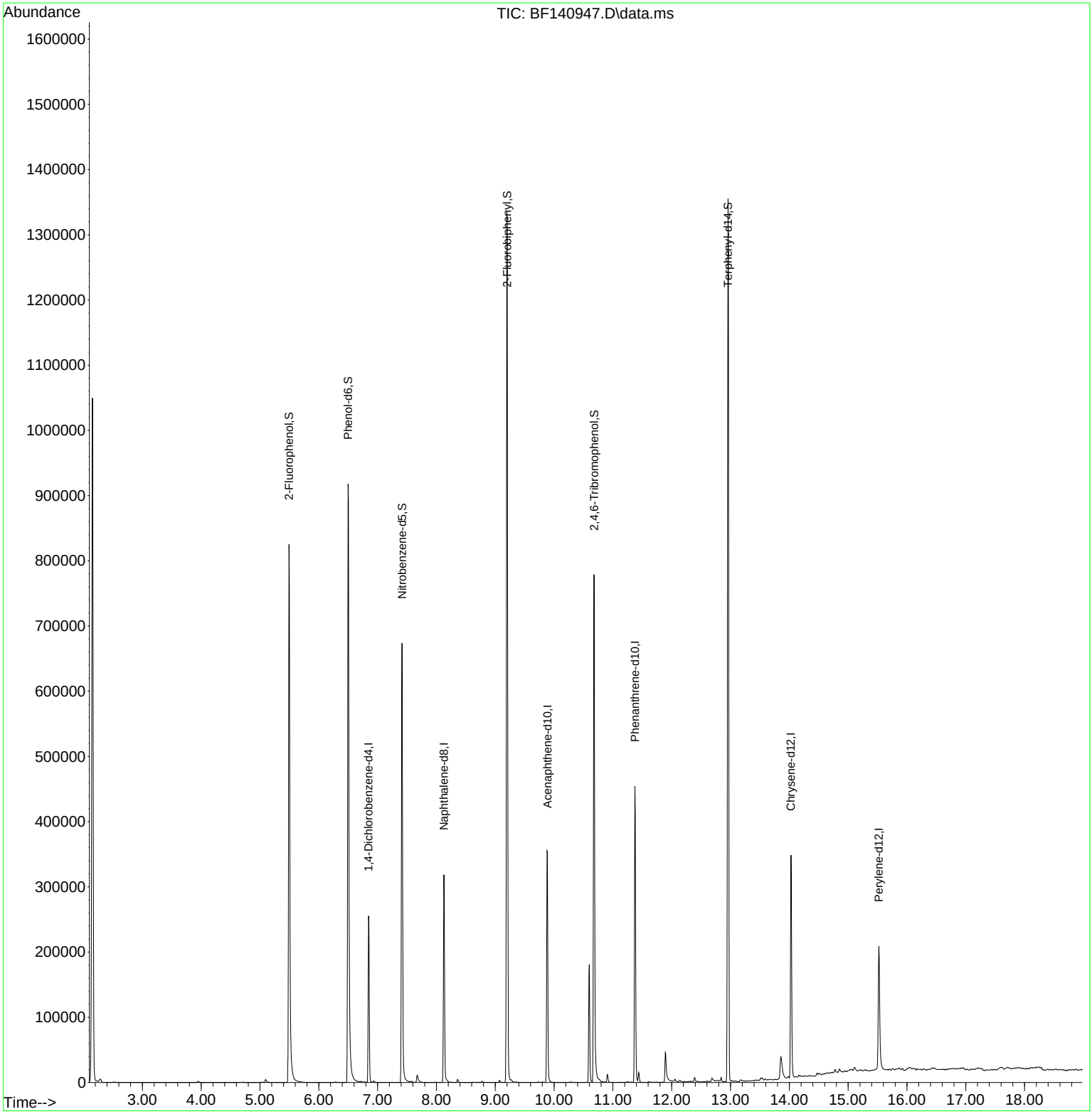
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.846	152	58015	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	219653	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	121595	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	255298	20.000	ng	0.00
76) Chrysene-d12	14.027	240	180413	20.000	ng	0.00
86) Perylene-d12	15.521	264	133929	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	375173	106.456	ng	0.00
7) Phenol-d6	6.498	99	515012	110.332	ng	0.00
23) Nitrobenzene-d5	7.416	82	322489	73.454	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	154397	107.360	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	648580	73.334	ng	0.00
79) Terphenyl-d14	12.957	244	694475	60.699	ng	0.00
Target Compounds						Qvalue

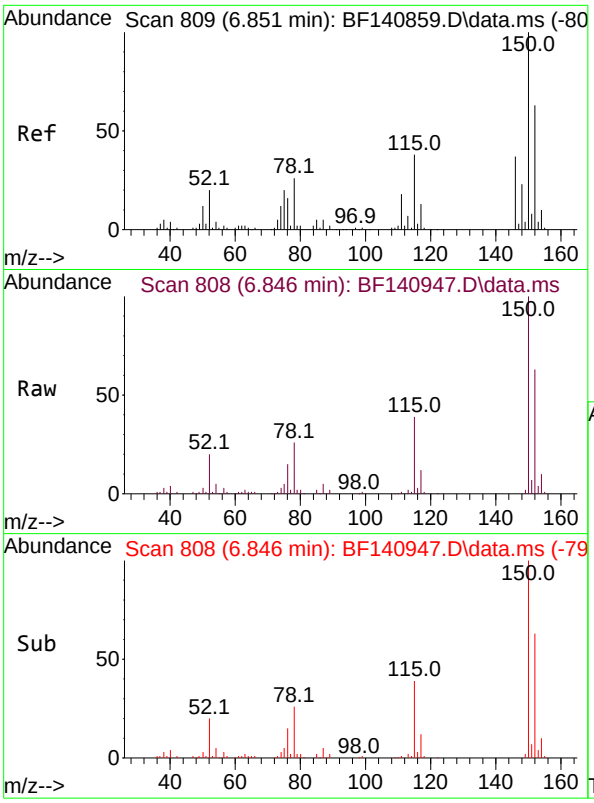
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140947.D
Acq On : 20 Dec 2024 13:44
Operator : RC/JU
Sample : P5306-09
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Quant Time: Dec 20 14:17:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



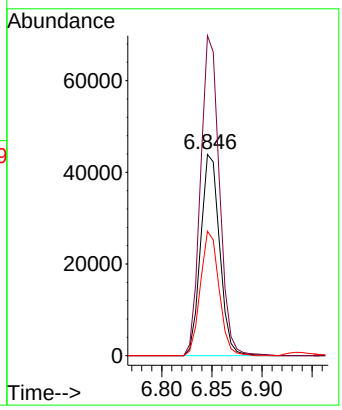


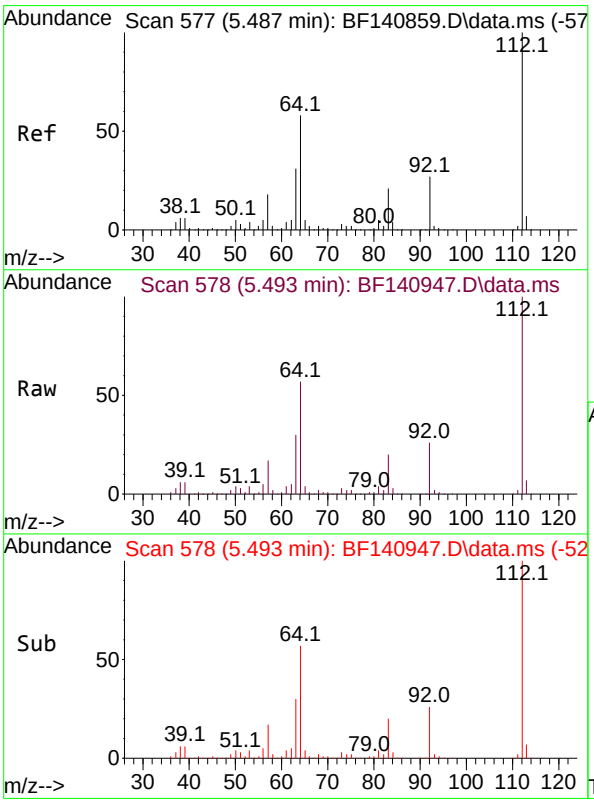
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Tgt Ion:152 Resp: 58015

Ion	Ratio	Lower	Upper
152	100		
150	159.0	127.9	191.9
115	61.9	48.0	72.0

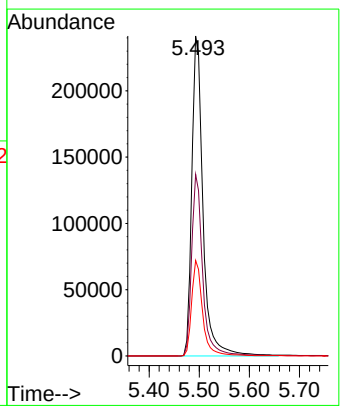


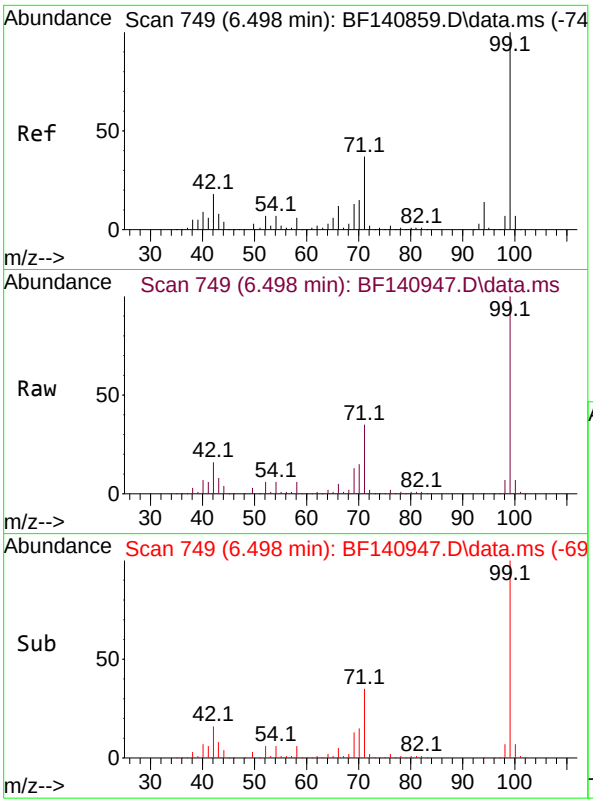


#5
2-Fluorophenol
Concen: 106.456 ng
RT: 5.493 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Tgt Ion:112 Resp: 375173

Ion	Ratio	Lower	Upper
112	100		
64	56.8	46.1	69.1
63	29.9	24.9	37.3



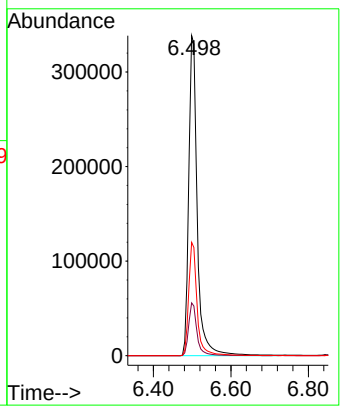


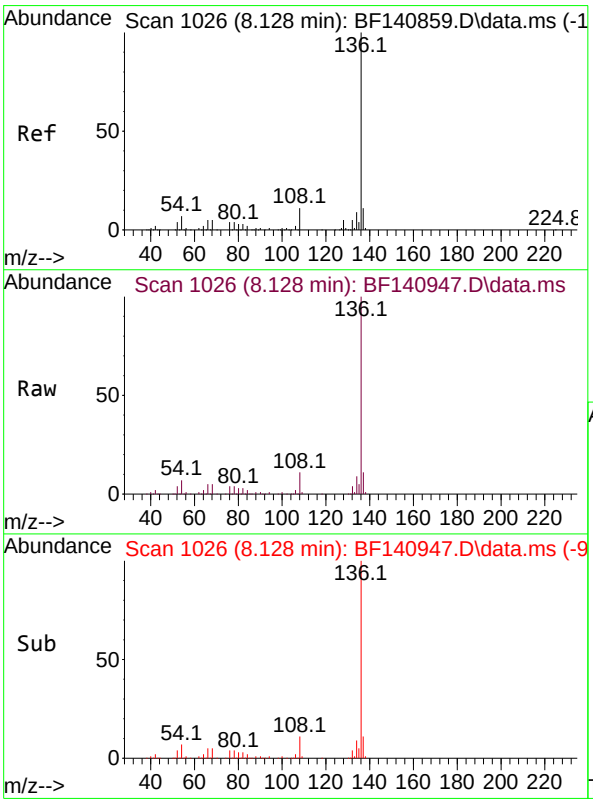
#7
Phenol-d6
Concen: 110.332 ng
RT: 6.498 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Tgt Ion: 99 Resp: 515012

Ion	Ratio	Lower	Upper
99	100		
42	16.5	14.3	21.5
71	35.4	29.9	44.9

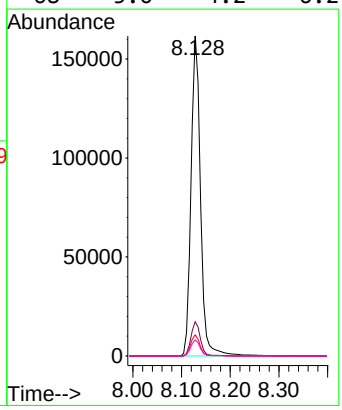


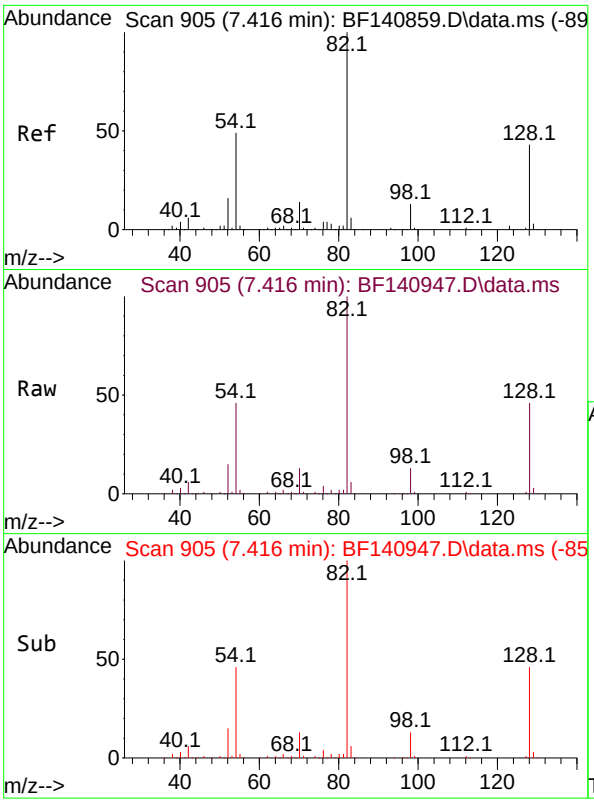


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Tgt Ion:136 Resp: 219653

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.6	5.6	8.4
68	5.0	4.2	6.2



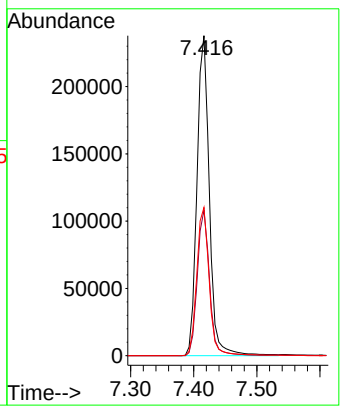


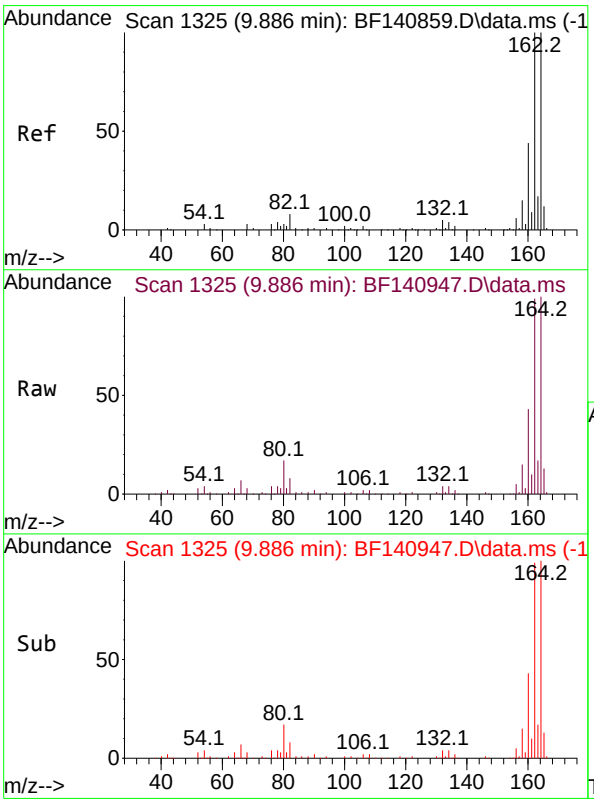
#23
Nitrobenzene-d5
Concen: 73.454 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Tgt Ion: 82 Resp: 322489

Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.4	51.6
54	46.3	38.8	58.2

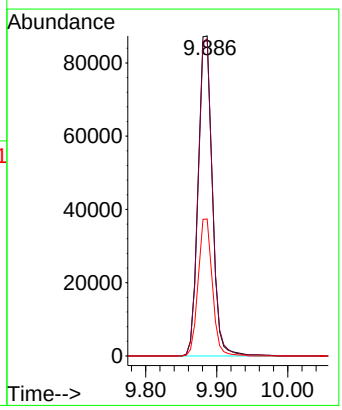


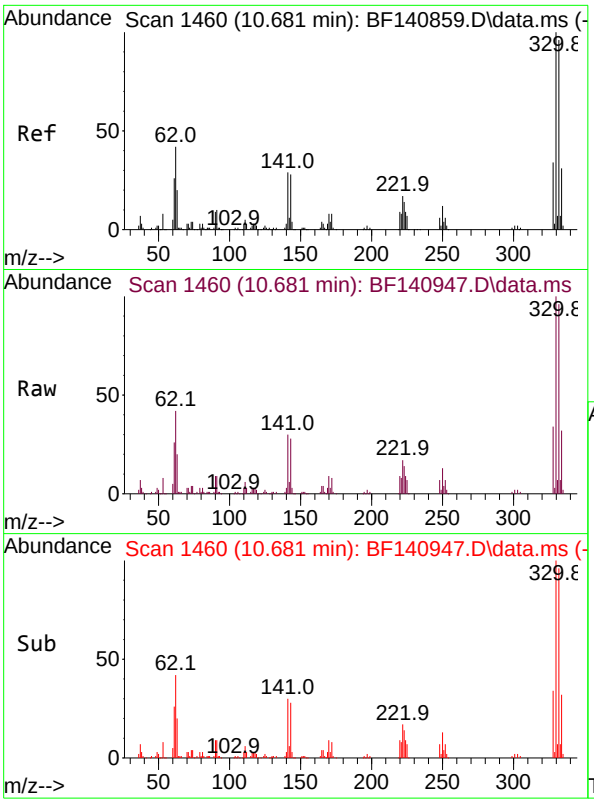


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1325
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Tgt Ion:164 Resp: 121595

Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.9	119.9
160	42.8	35.2	52.8



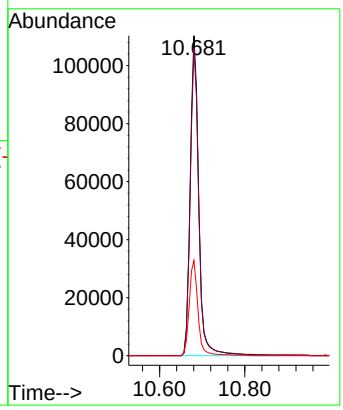


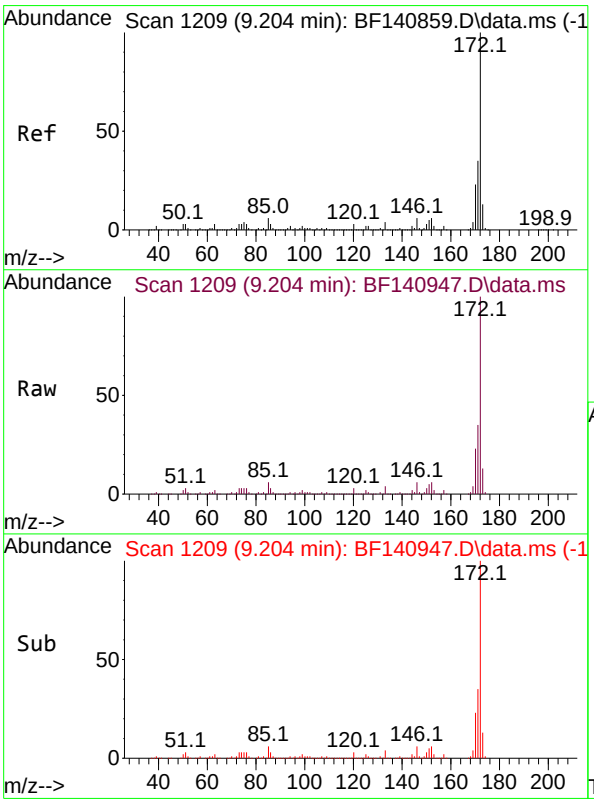
#42
2,4,6-Tribromophenol
Concen: 107.360 ng
RT: 10.681 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Tgt Ion:330 Resp: 154397

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.2	114.4
141	30.1	24.9	37.3

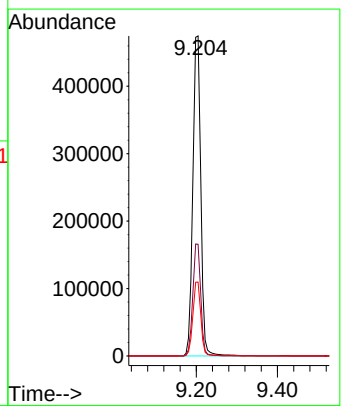


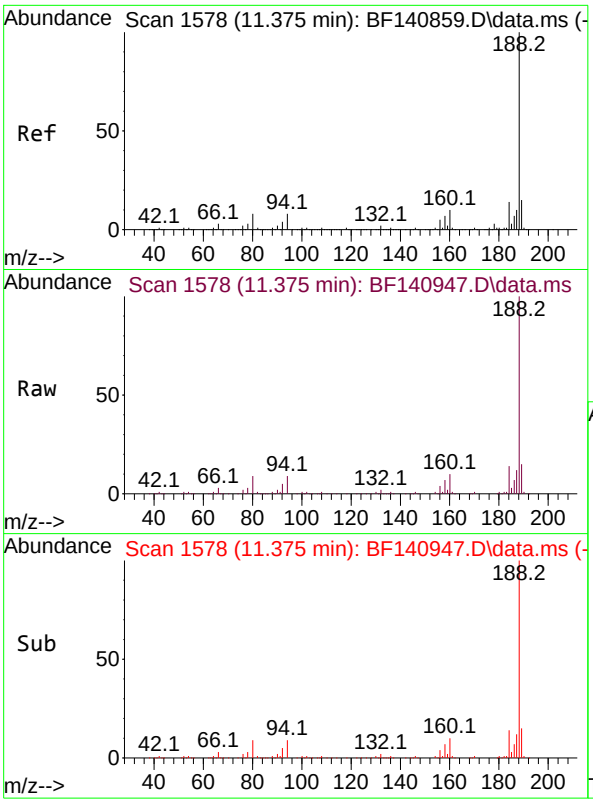


#45
2-Fluorobiphenyl
Concen: 73.334 ng
RT: 9.204 min Scan# 1209
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Tgt Ion:172 Resp: 648580

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.4	42.6
170	23.1	18.6	28.0



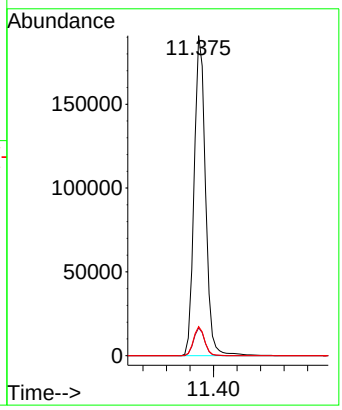


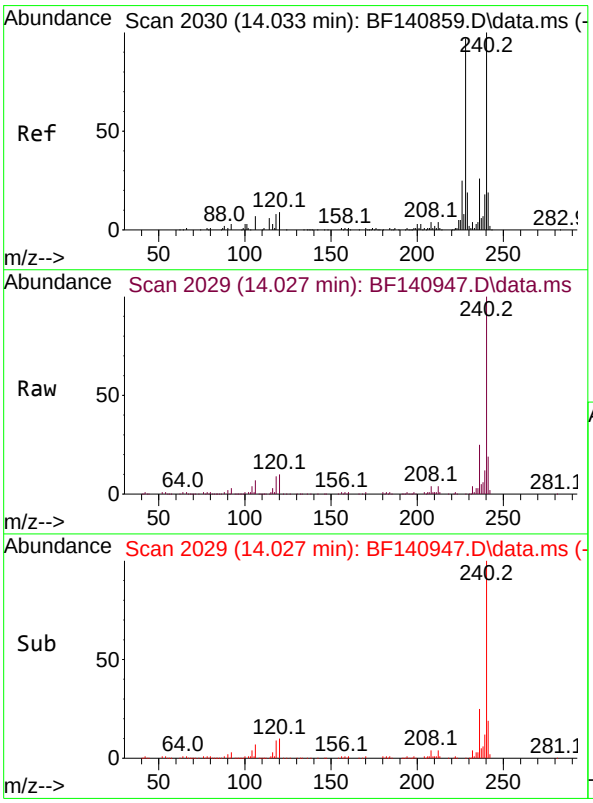
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Tgt Ion:188 Resp: 255298

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.4	9.6
80	9.1	6.8	10.2

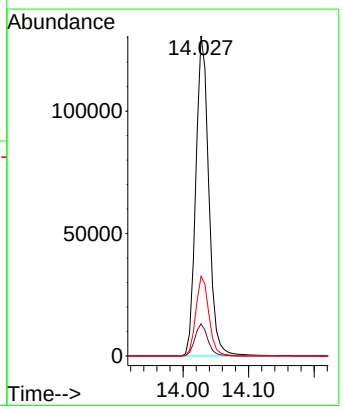


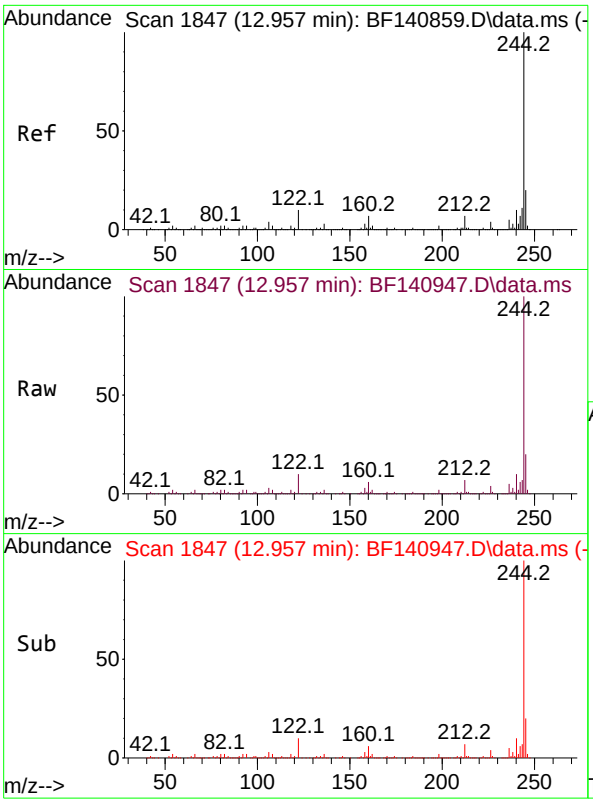


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Tgt Ion:240 Resp: 180413

Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.6	11.4
236	24.9	20.5	30.7



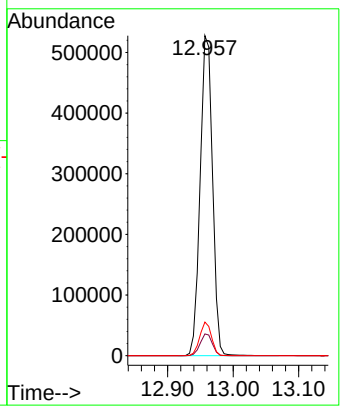


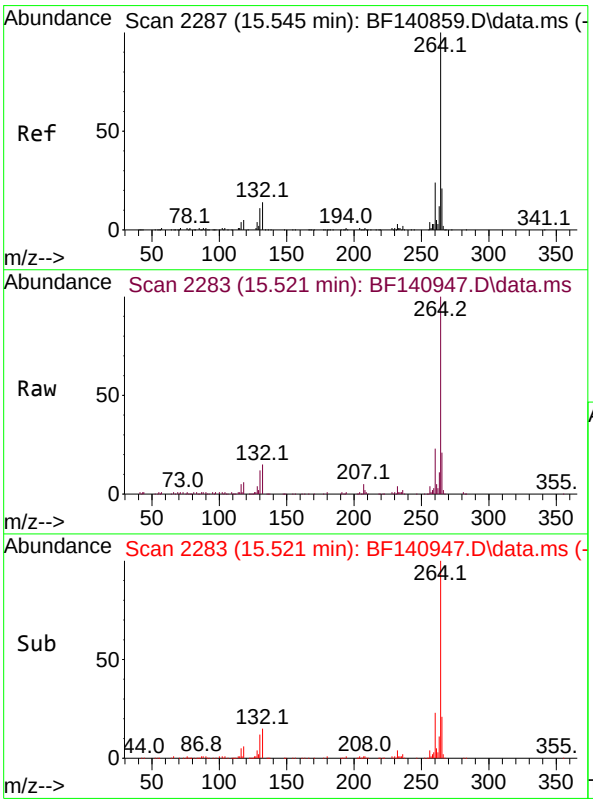
#79
Terphenyl-d14
Concen: 60.699 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224

Tgt Ion:244 Resp: 694475

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.5	8.2	12.2

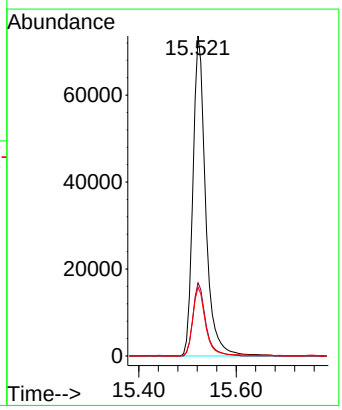




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140947.D
Acq: 20 Dec 2024 13:44

Tgt Ion:264 Resp: 133929

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.1	28.7
265	21.5	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-12-121224	SDG No.:	P5306
Lab Sample ID:	P5306-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140946.D	1	12/18/24 08:56	12/20/24 13:18	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.091	0.14	0.19	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.095	0.14	0.19	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.089	0.14	0.19	mg/Kg
86-73-7	Fluorene	0.14	U	0.094	0.14	0.19	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.092	0.14	0.19	mg/Kg
120-12-7	Anthracene	0.14	U	0.093	0.14	0.19	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.090	0.14	0.19	mg/Kg
129-00-0	Pyrene	0.14	U	0.091	0.14	0.19	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
218-01-9	Chrysene	0.14	U	0.087	0.14	0.19	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.089	0.14	0.19	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.091	0.14	0.19	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.10	0.14	0.19	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.086	0.14	0.19	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.089	0.14	0.19	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.088	0.14	0.19	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	103		37 - 122		103%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.0		44 - 115		95%	SPK: 100
1718-51-0	Terphenyl-d14	89.1		54 - 127		89%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	54400	6.845				
1146-65-2	Naphthalene-d8	210000	8.128				
15067-26-2	Acenaphthene-d10	120000	9.886				
1517-22-2	Phenanthrene-d10	211000	11.375				
1719-03-5	Chrysene-d12	164000	14.027				
1520-96-3	Perylene-d12	119000	15.527				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-12-121224	SDG No.:	P5306
Lab Sample ID:	P5306-11	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.8
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140946.D	1	12/18/24 08:56	12/20/24 13:18	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140946.D
Acq On : 20 Dec 2024 13:18
Operator : RC/JU
Sample : P5306-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Quant Time: Dec 20 13:39:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

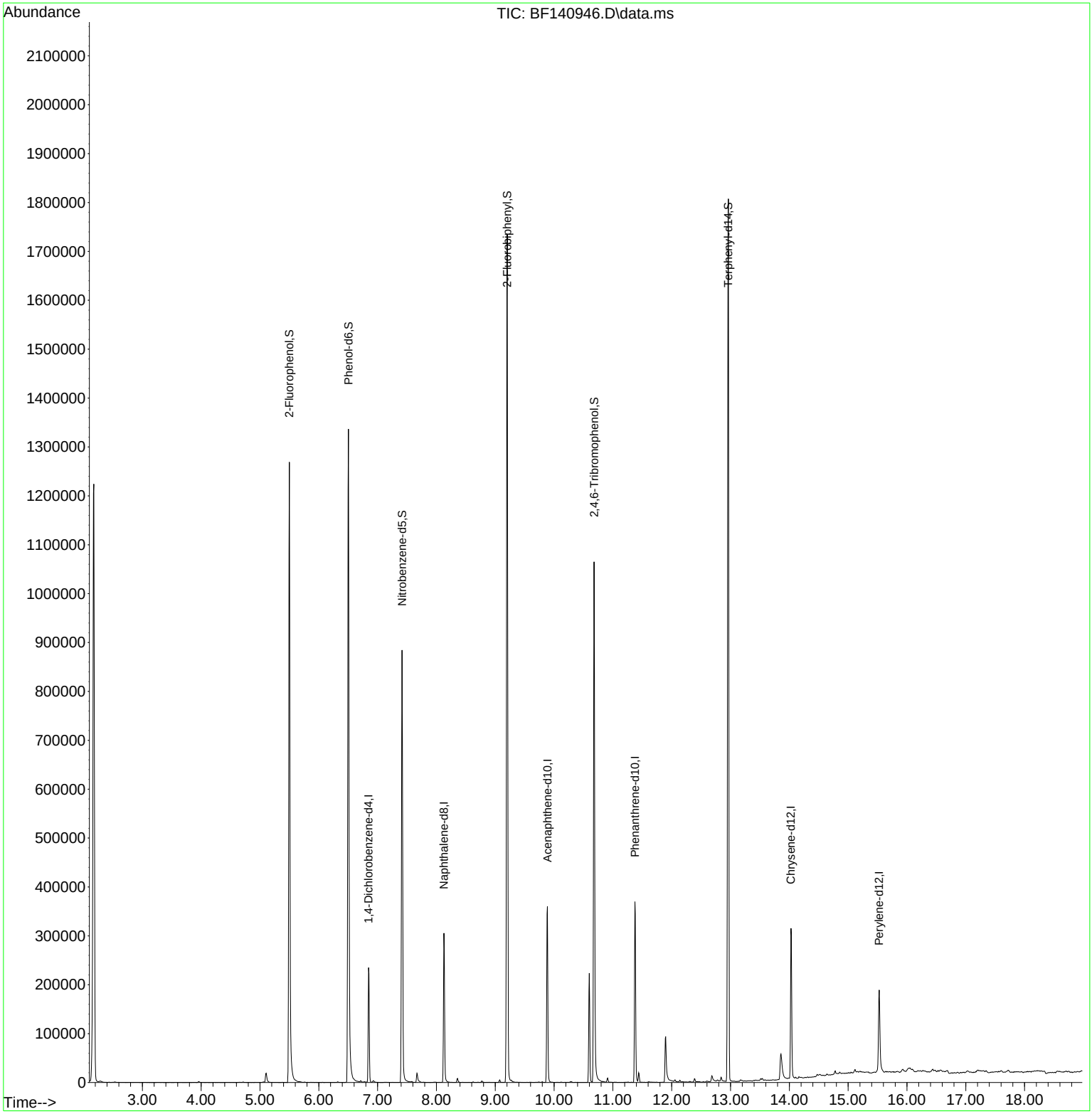
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	54430	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	210139	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	120116	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	210542	20.000	ng	0.00
76) Chrysene-d12	14.027	240	164330	20.000	ng	0.00
86) Perylene-d12	15.527	264	118564	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	537650	162.607	ng	0.01
7) Phenol-d6	6.504	99	720849	164.600	ng	0.00
23) Nitrobenzene-d5	7.416	82	430956	102.604	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	206669	145.477	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	829891	94.989	ng	0.00
79) Terphenyl-d14	12.963	244	928505	89.097	ng	0.00
Target Compounds						Qvalue

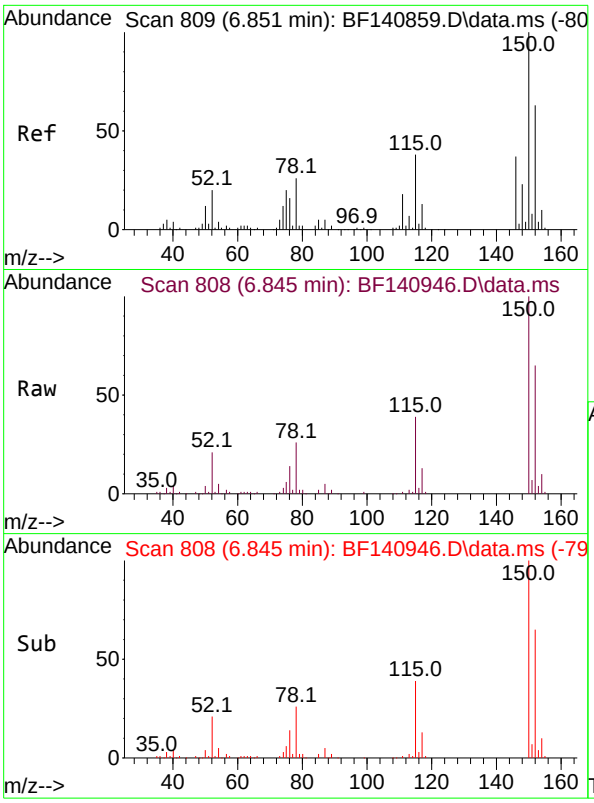
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140946.D
Acq On : 20 Dec 2024 13:18
Operator : RC/JU
Sample : P5306-11
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Quant Time: Dec 20 13:39:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



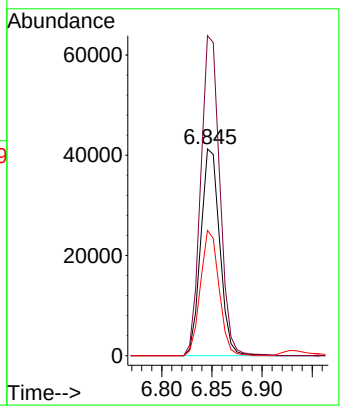


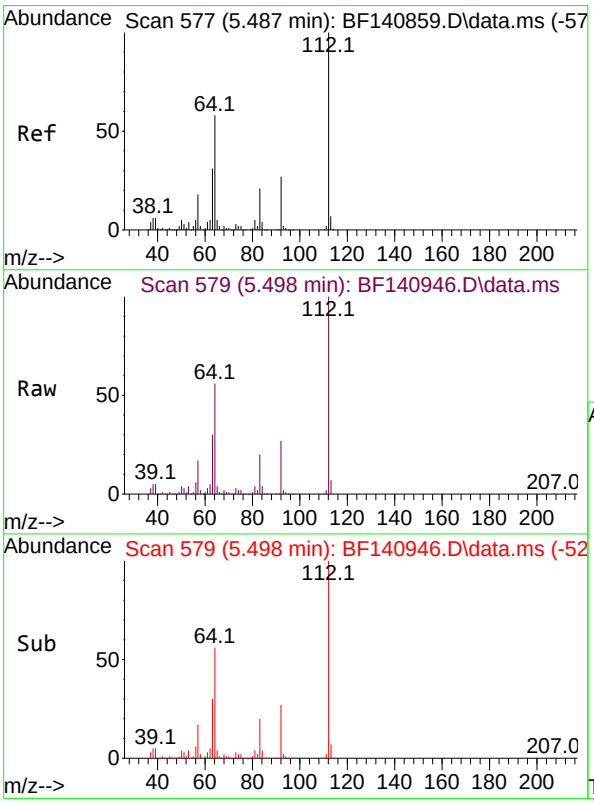
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Tgt Ion:152 Resp: 54430

Ion	Ratio	Lower	Upper
152	100		
150	154.8	127.9	191.9
115	60.6	48.0	72.0

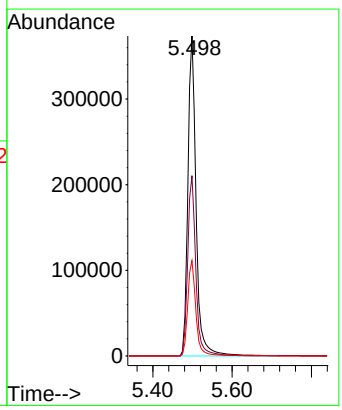


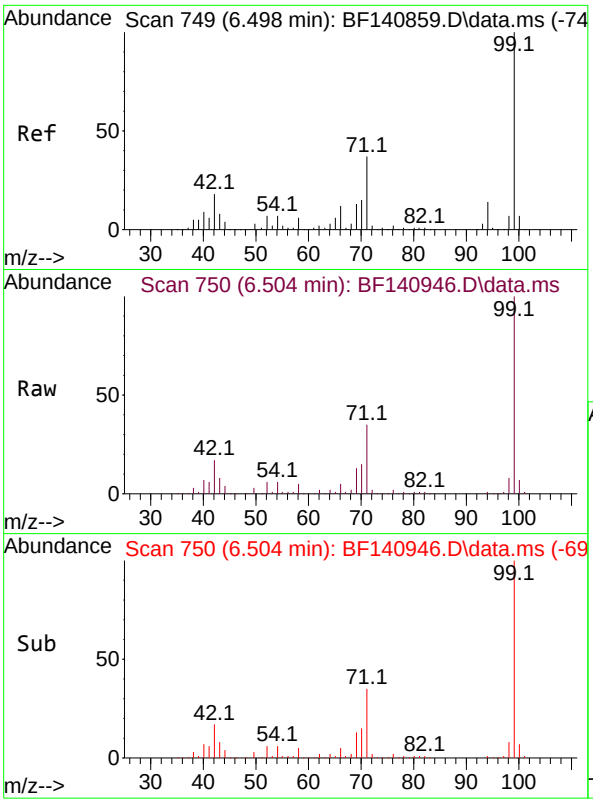


#5
2-Fluorophenol
Concen: 162.607 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Tgt Ion:112 Resp: 537650

Ion	Ratio	Lower	Upper
112	100		
64	56.3	46.1	69.1
63	29.8	24.9	37.3



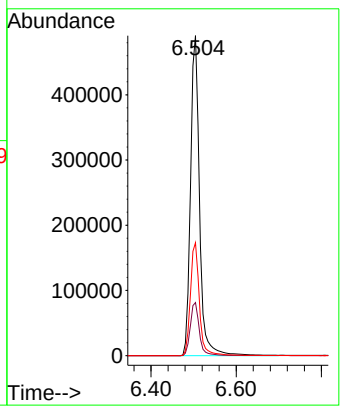


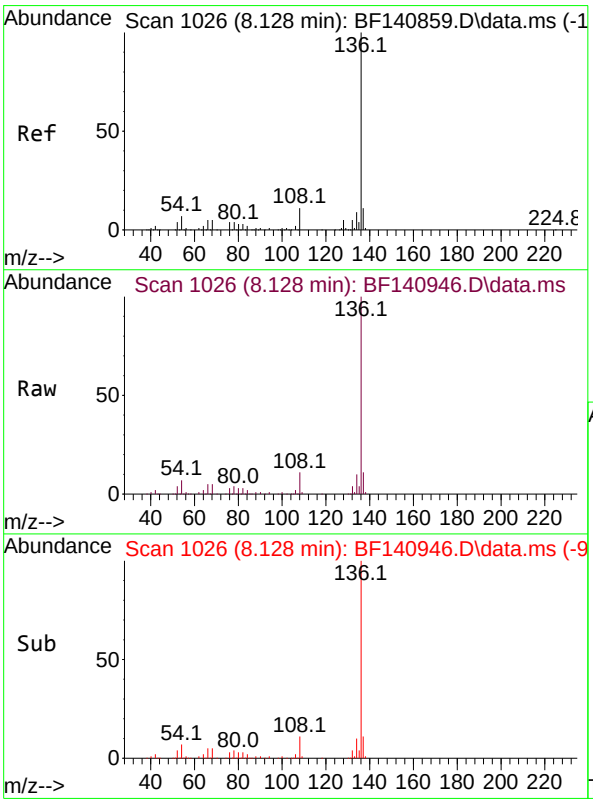
#7
Phenol-d6
Concen: 164.600 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Tgt Ion: 99 Resp: 720849

Ion	Ratio	Lower	Upper
99	100		
42	16.6	14.3	21.5
71	35.3	29.9	44.9

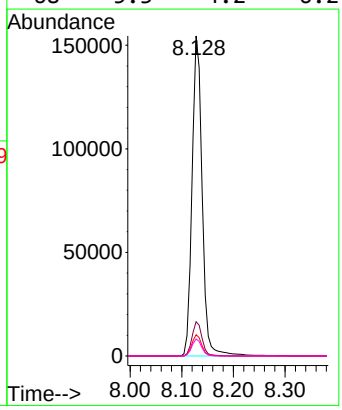


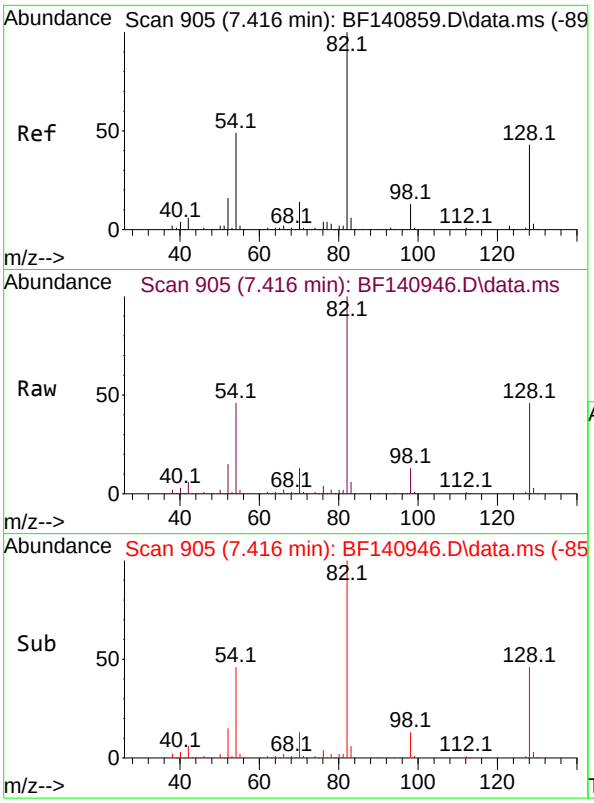


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Tgt Ion:136 Resp: 210139

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.7	5.6	8.4
68	5.3	4.2	6.2



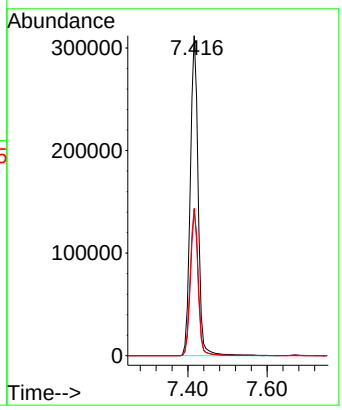


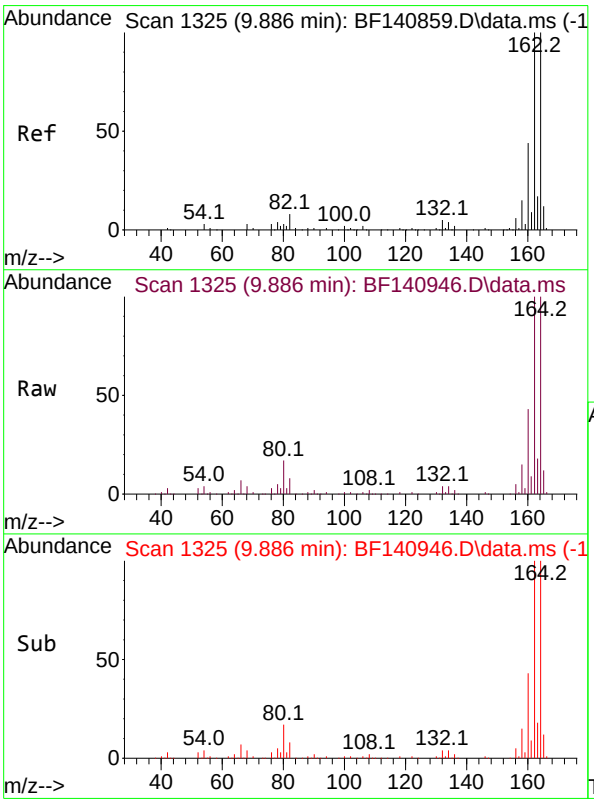
#23
Nitrobenzene-d5
Concen: 102.604 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Tgt Ion: 82 Resp: 430956

Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.4	51.6
54	46.0	38.8	58.2

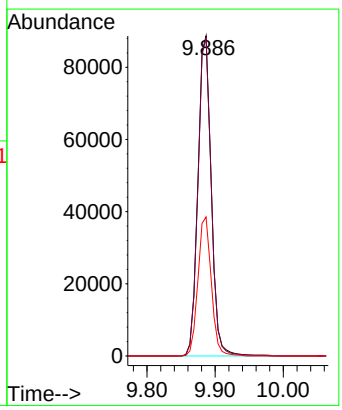


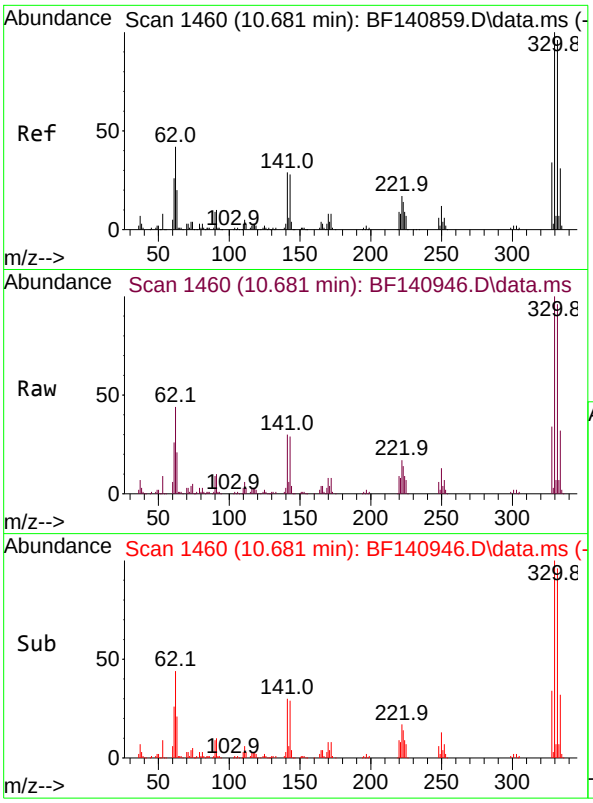


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.000 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Tgt Ion:164 Resp: 120116

Ion	Ratio	Lower	Upper
164	100		
162	99.5	79.9	119.9
160	43.5	35.2	52.8



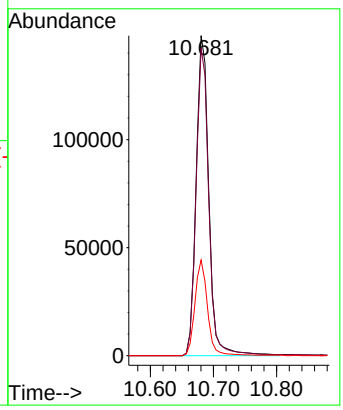


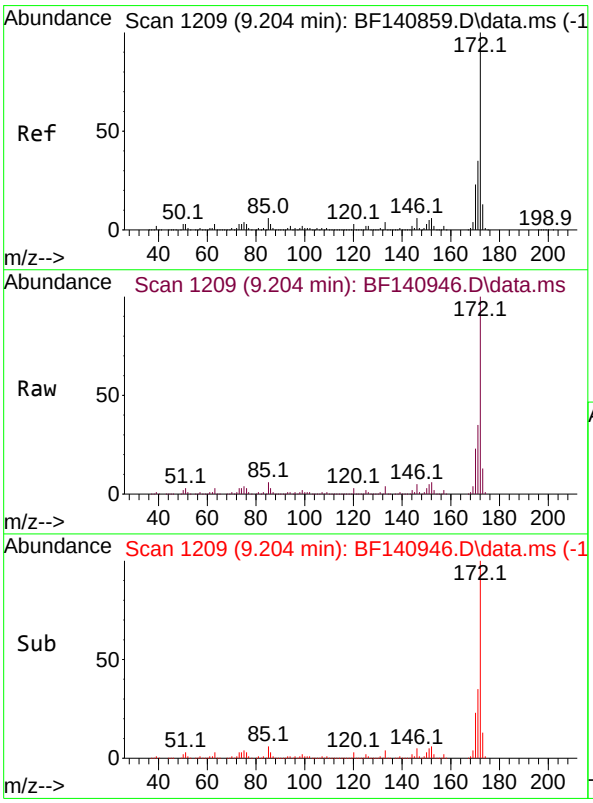
#42
2,4,6-Tribromophenol
Concen: 145.477 ng
RT: 10.681 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Tgt Ion:330 Resp: 206669

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.2	114.4
141	29.9	24.9	37.3

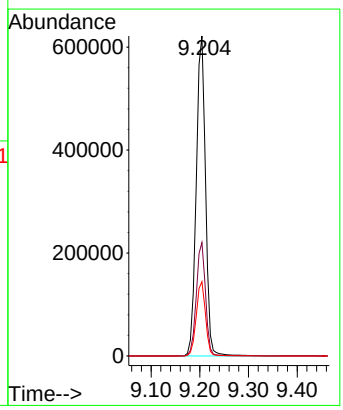


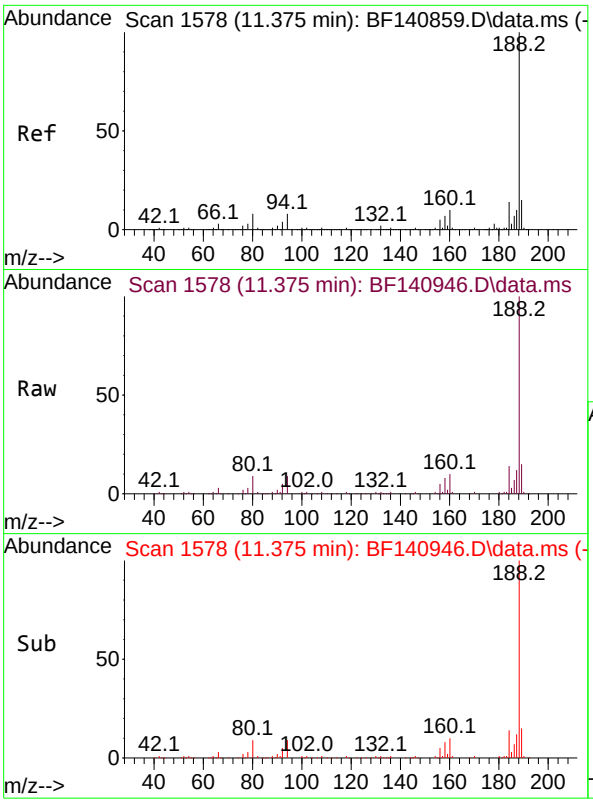


#45
2-Fluorobiphenyl
Concen: 94.989 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Tgt Ion:172 Resp: 829891

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.4	42.6
170	23.2	18.6	28.0



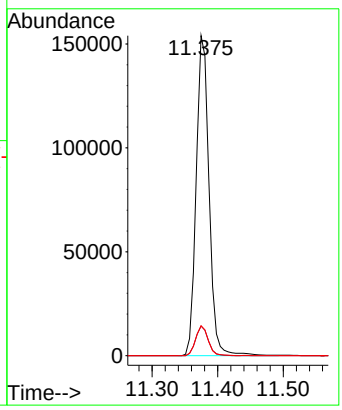


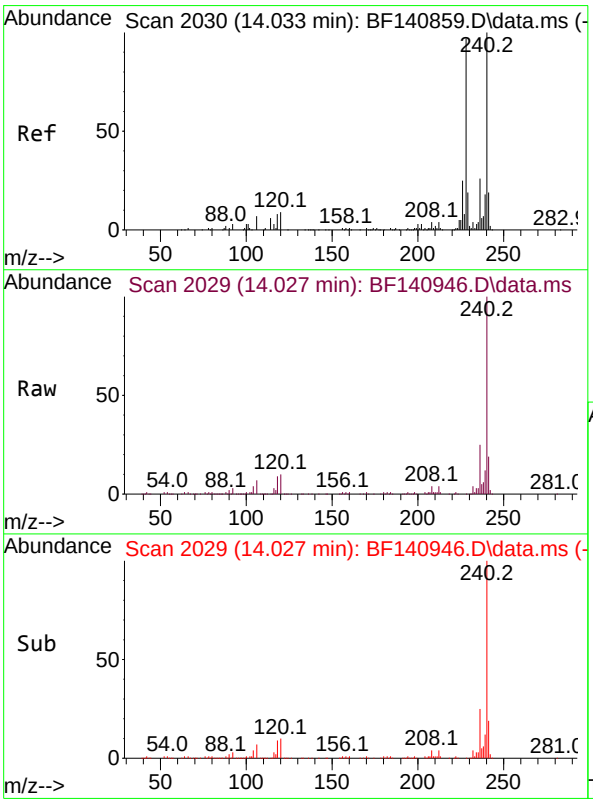
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Tgt Ion:188 Resp: 210542

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.4	9.6
80	9.3	6.8	10.2

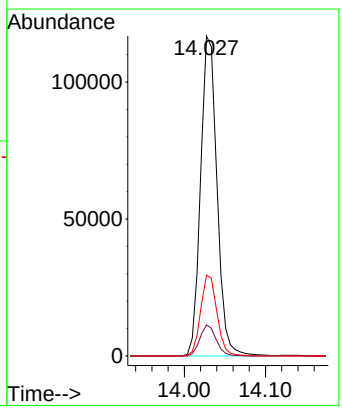


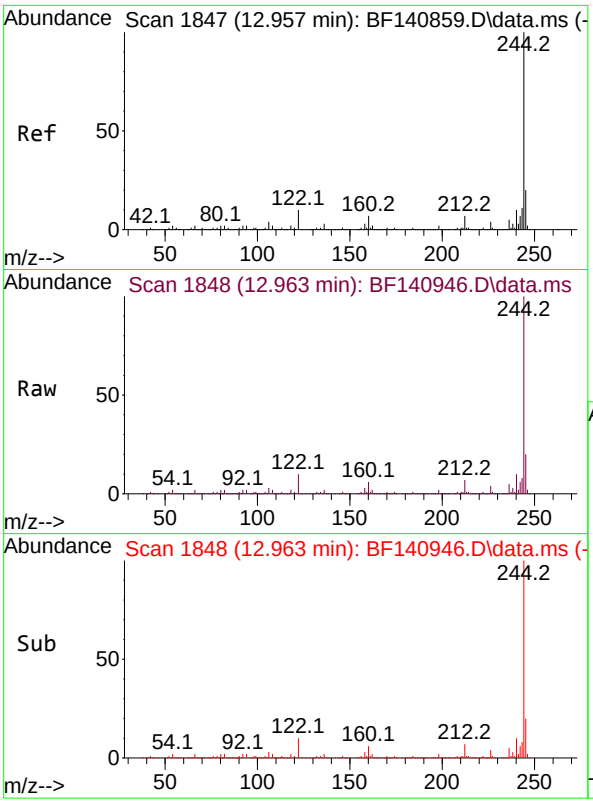


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Tgt Ion:240 Resp: 164330

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.6	11.4
236	25.3	20.5	30.7



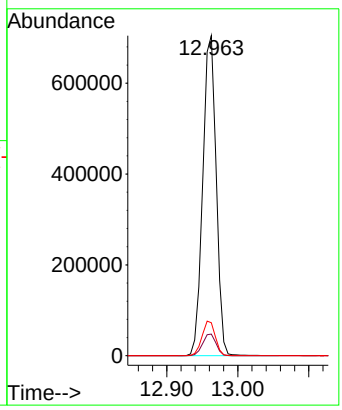


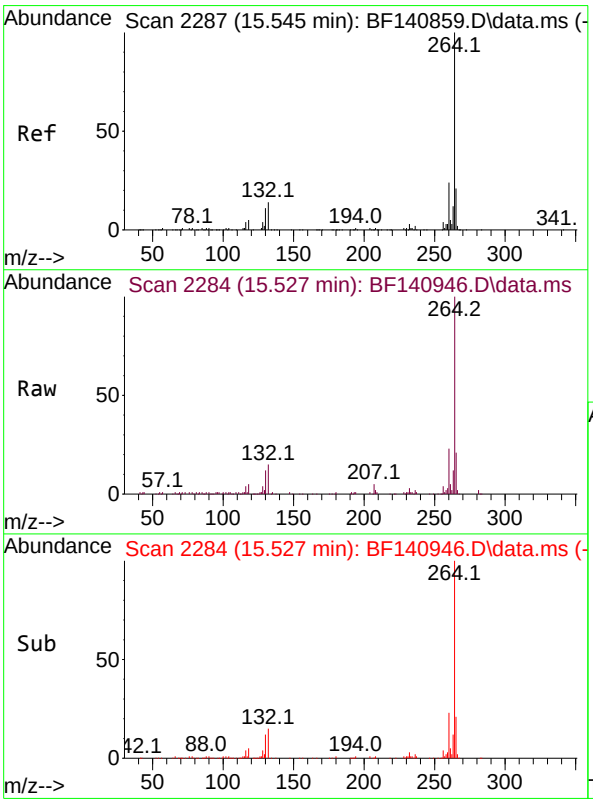
#79
Terphenyl-d14
Concen: 89.097 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-12-121224

Tgt Ion:244 Resp: 928505

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.3	8.2	12.2

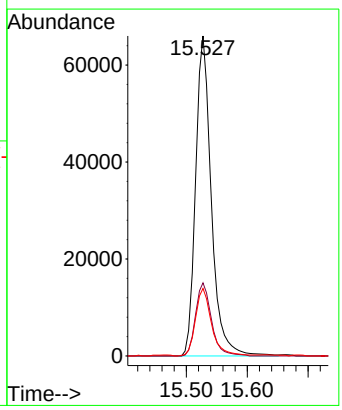




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.018 min
Lab File: BF140946.D
Acq: 20 Dec 2024 13:18

Tgt Ion:264 Resp: 118564

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.1	28.7
265	21.1	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-13-121224	SDG No.:	P5306
Lab Sample ID:	P5306-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140950.D	1	12/18/24 08:56	12/20/24 15:02	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.092	0.14	0.19	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.092	0.14	0.19	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.096	0.14	0.19	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.090	0.14	0.19	mg/Kg
86-73-7	Fluorene	0.14	U	0.095	0.14	0.19	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.093	0.14	0.19	mg/Kg
120-12-7	Anthracene	0.14	U	0.094	0.14	0.19	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.091	0.14	0.19	mg/Kg
129-00-0	Pyrene	0.14	U	0.092	0.14	0.19	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.090	0.14	0.19	mg/Kg
218-01-9	Chrysene	0.14	U	0.088	0.14	0.19	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.090	0.14	0.19	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.092	0.14	0.19	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.10	0.14	0.19	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.087	0.14	0.19	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.090	0.14	0.19	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.089	0.14	0.19	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	101		37 - 122		101%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.7		44 - 115		92%	SPK: 100
1718-51-0	Terphenyl-d14	89.0		54 - 127		89%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	53900	6.845				
1146-65-2	Naphthalene-d8	215000	8.128				
15067-26-2	Acenaphthene-d10	123000	9.886				
1517-22-2	Phenanthrene-d10	223000	11.374				
1719-03-5	Chrysene-d12	168000	14.033				
1520-96-3	Perylene-d12	139000	15.545				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-13-121224	SDG No.:	P5306
Lab Sample ID:	P5306-13	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140950.D	1	12/18/24 08:56	12/20/24 15:02	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140950.D
Acq On : 20 Dec 2024 15:02
Operator : RC/JU
Sample : P5306-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Quant Time: Dec 20 16:03:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

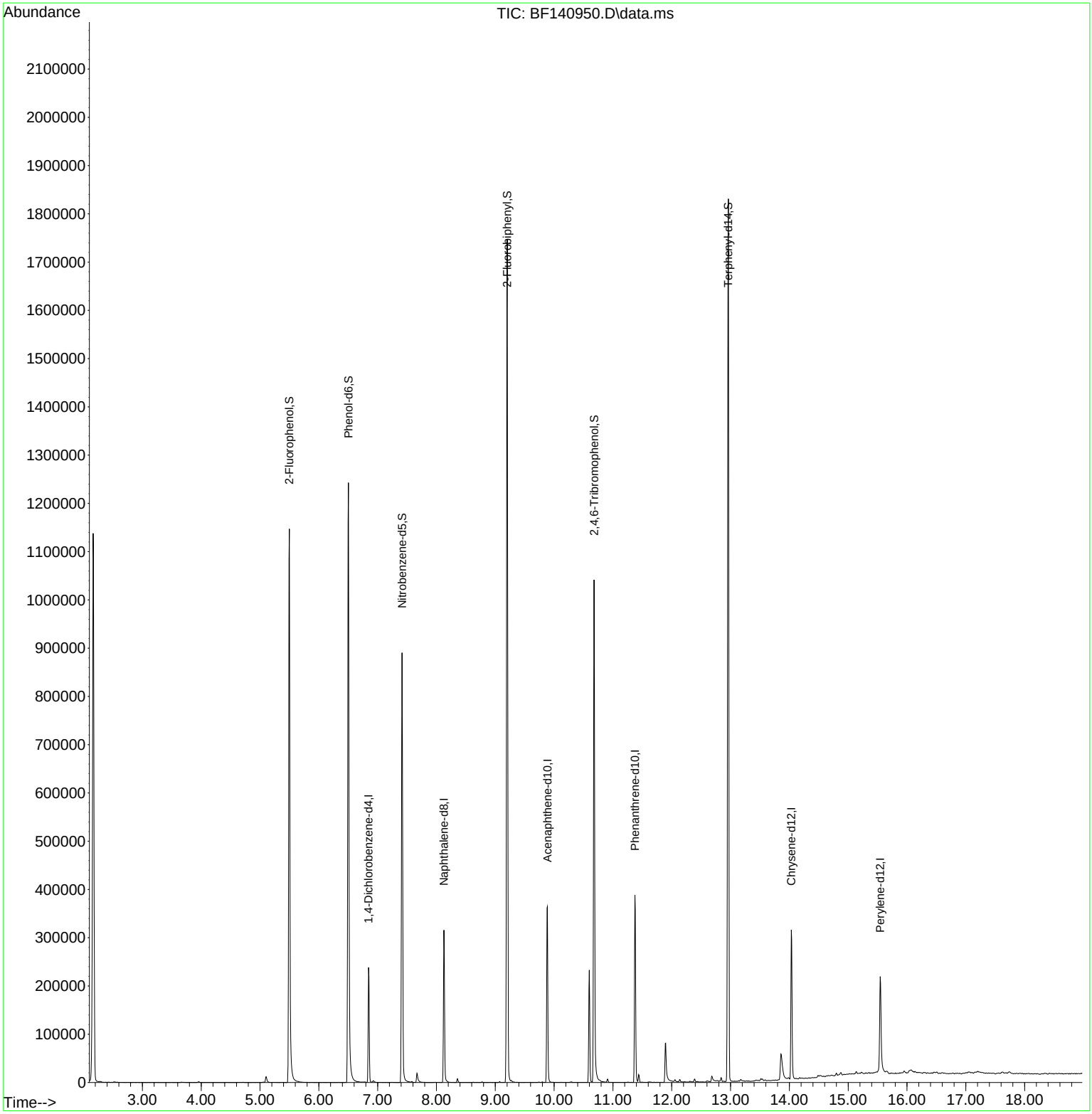
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	53866	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	214632	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	122940	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	223066	20.000	ng	0.00
76) Chrysene-d12	14.033	240	167929	20.000	ng	0.00
86) Perylene-d12	15.545	264	138716	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	498487	152.341	ng	0.01
7) Phenol-d6	6.504	99	663315	153.048	ng	0.00
23) Nitrobenzene-d5	7.416	82	434470	101.276	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	202739	139.432	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	819854	91.685	ng	0.00
79) Terphenyl-d14	12.963	244	947438	88.965	ng	0.00
Target Compounds						Qvalue

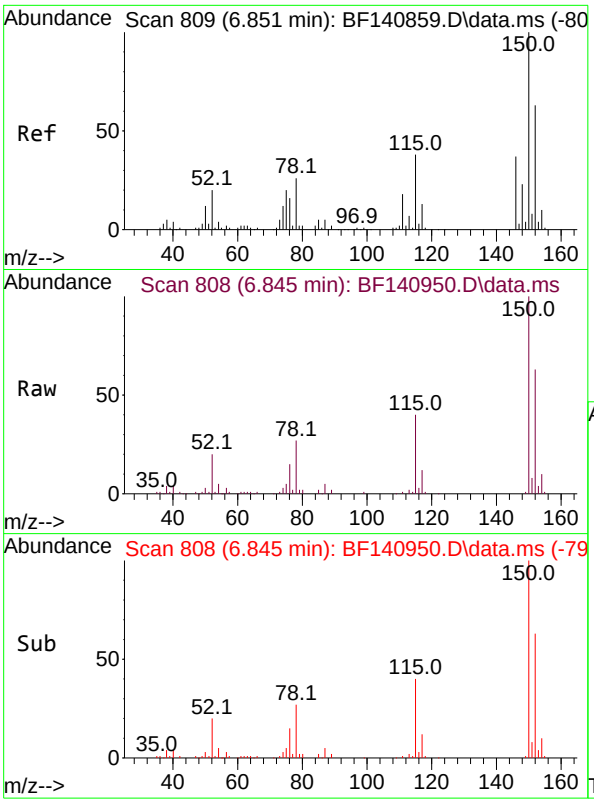
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140950.D
Acq On : 20 Dec 2024 15:02
Operator : RC/JU
Sample : P5306-13
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Quant Time: Dec 20 16:03:57 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



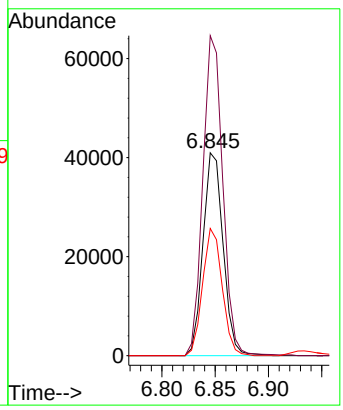


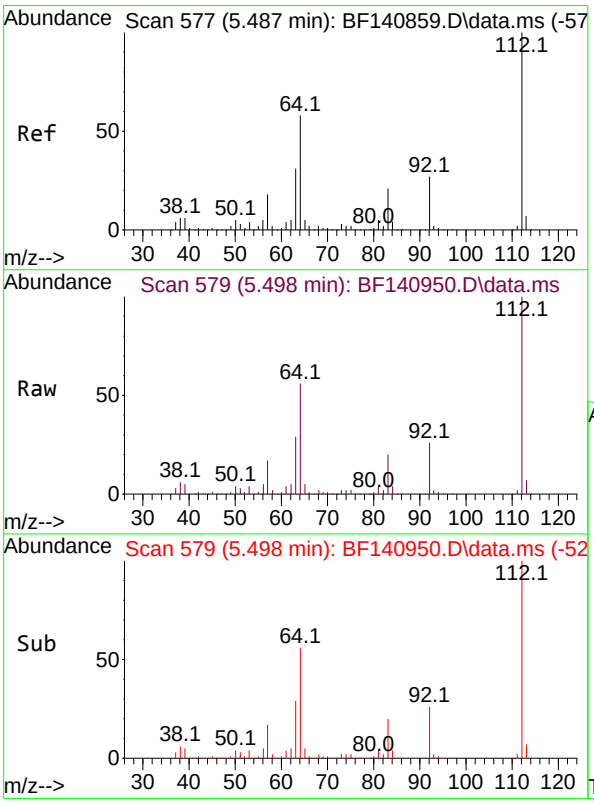
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Tgt Ion:152 Resp: 53866

Ion	Ratio	Lower	Upper
152	100		
150	157.7	127.9	191.9
115	62.7	48.0	72.0

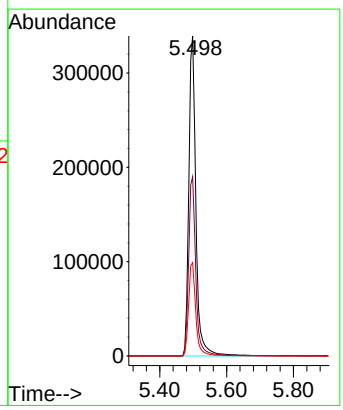


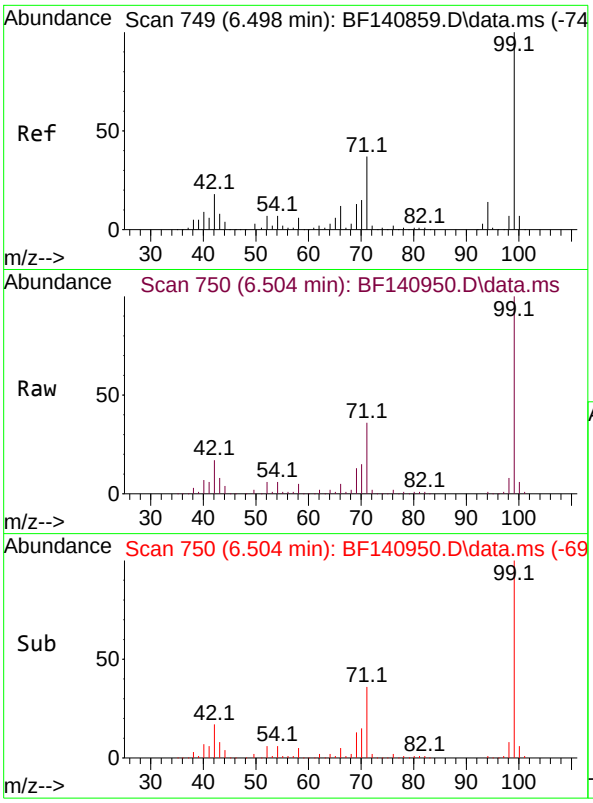


#5
2-Fluorophenol
Concen: 152.341 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Tgt Ion:112 Resp: 498487

Ion	Ratio	Lower	Upper
112	100		
64	56.0	46.1	69.1
63	29.2	24.9	37.3



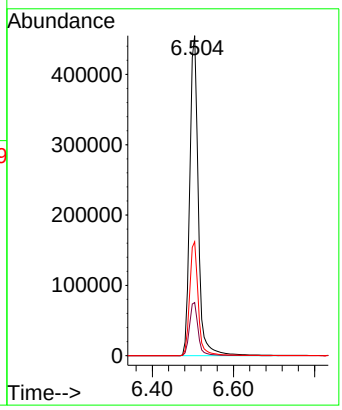


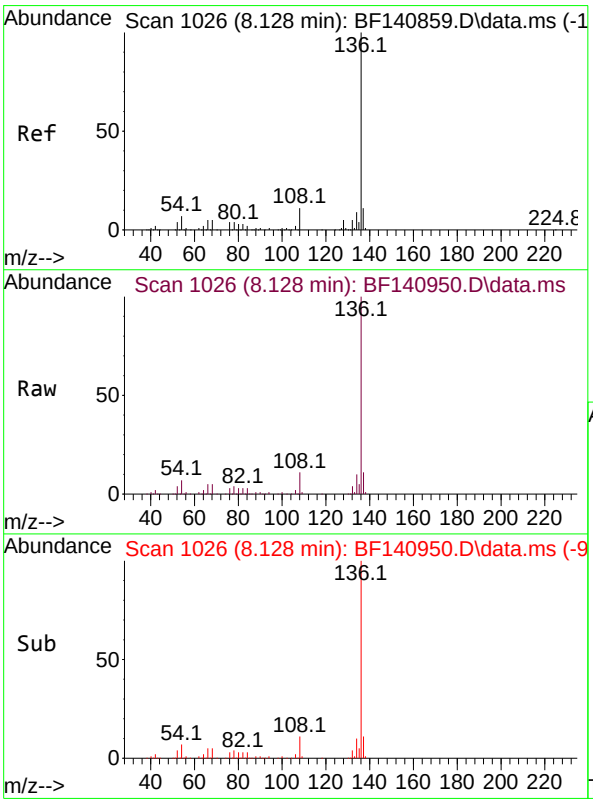
#7
Phenol-d6
Concen: 153.048 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Tgt Ion: 99 Resp: 663315

Ion	Ratio	Lower	Upper
99	100		
42	16.6	14.3	21.5
71	35.6	29.9	44.9

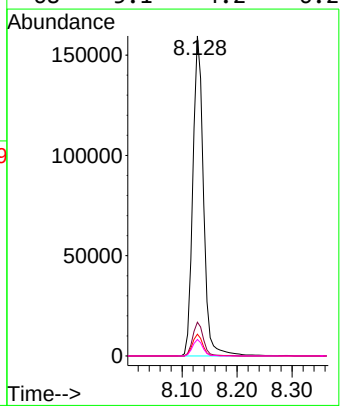


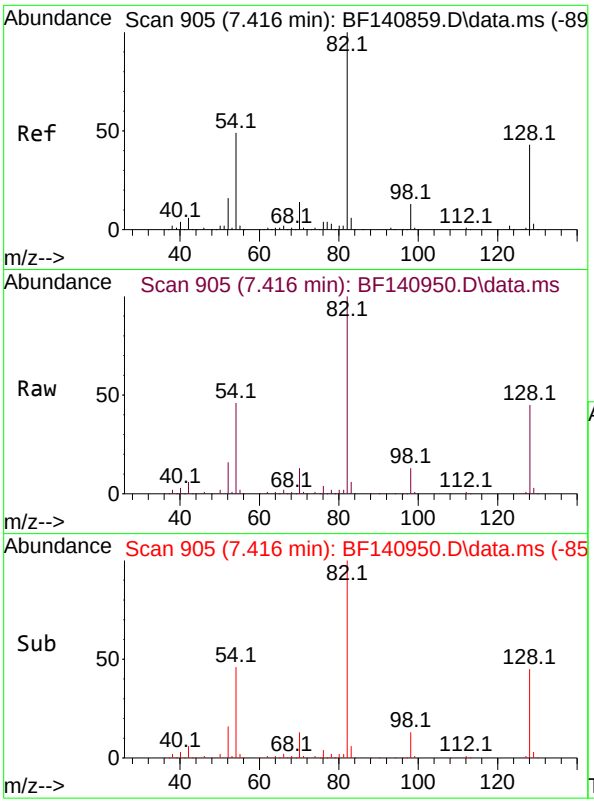


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Tgt Ion:136 Resp: 214632

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.4
54	6.8	5.6	8.4
68	5.1	4.2	6.2



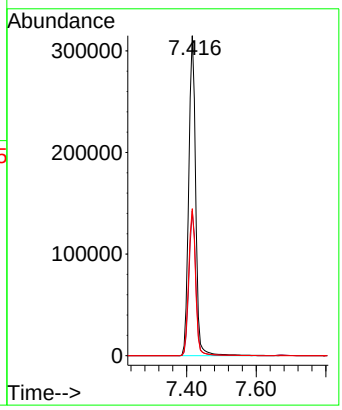


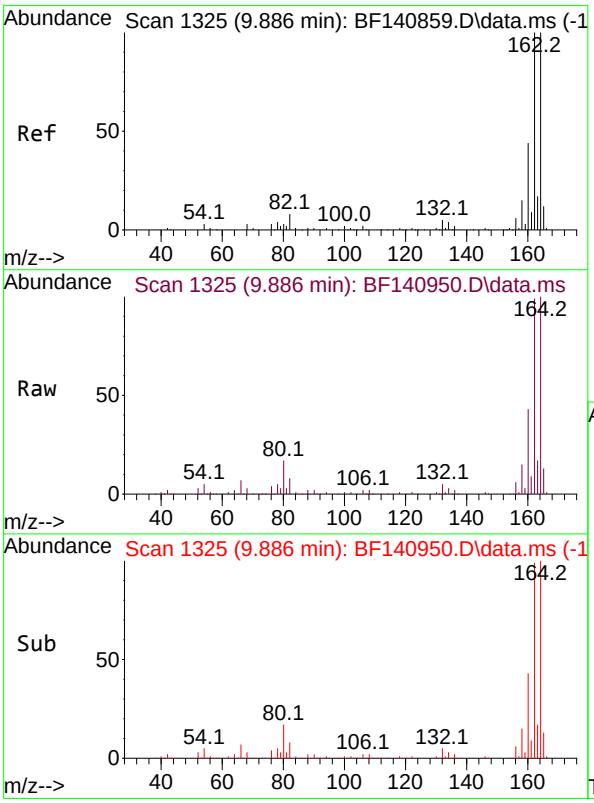
#23
Nitrobenzene-d5
Concen: 101.276 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Tgt Ion: 82 Resp: 434470

Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.4	51.6
54	45.9	38.8	58.2

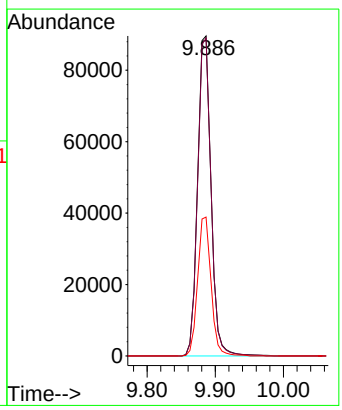


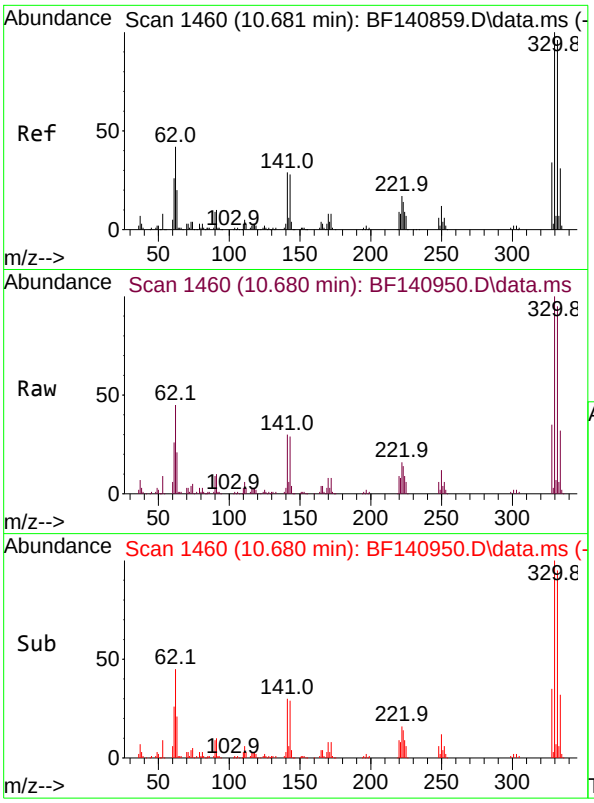


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Tgt Ion:164 Resp: 122940

Ion	Ratio	Lower	Upper
164	100		
162	99.4	79.9	119.9
160	43.4	35.2	52.8



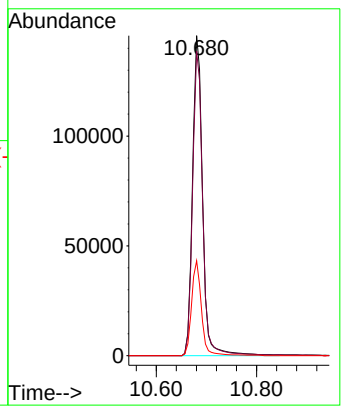


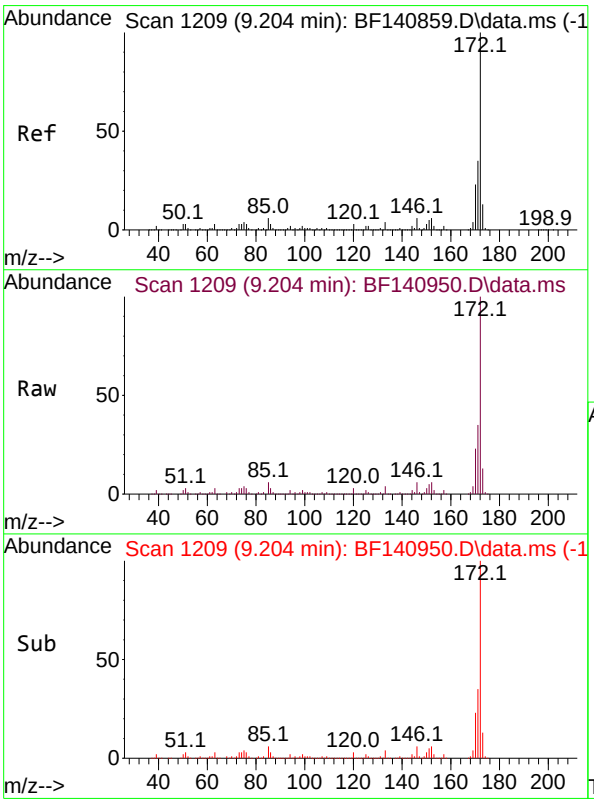
#42
2,4,6-Tribromophenol
Concen: 139.432 ng
RT: 10.680 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Tgt Ion:330 Resp: 202739

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.2	114.4
141	29.3	24.9	37.3

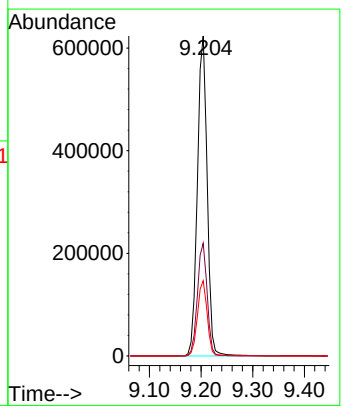


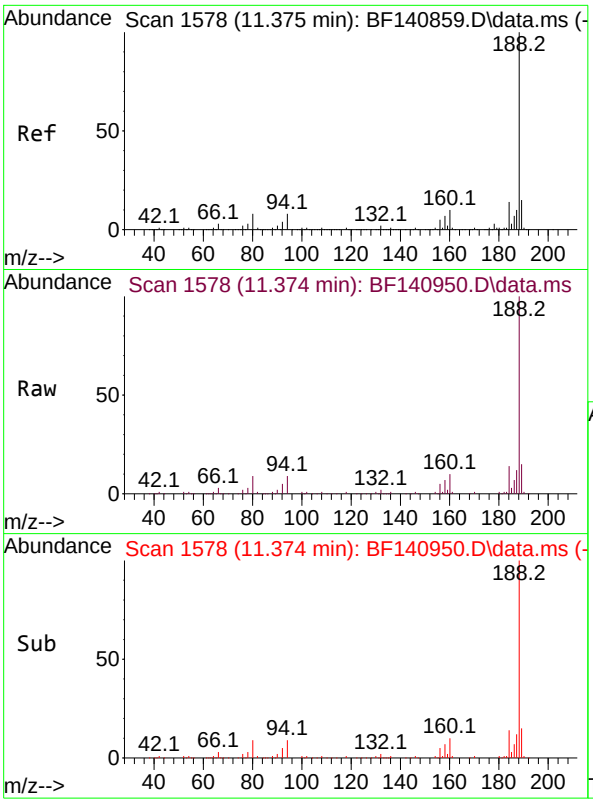


#45
2-Fluorobiphenyl
Concen: 91.685 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Tgt Ion:172 Resp: 819854

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.5	18.6	28.0



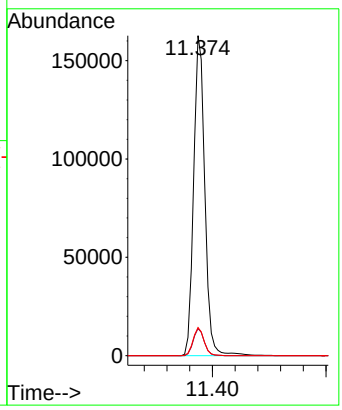


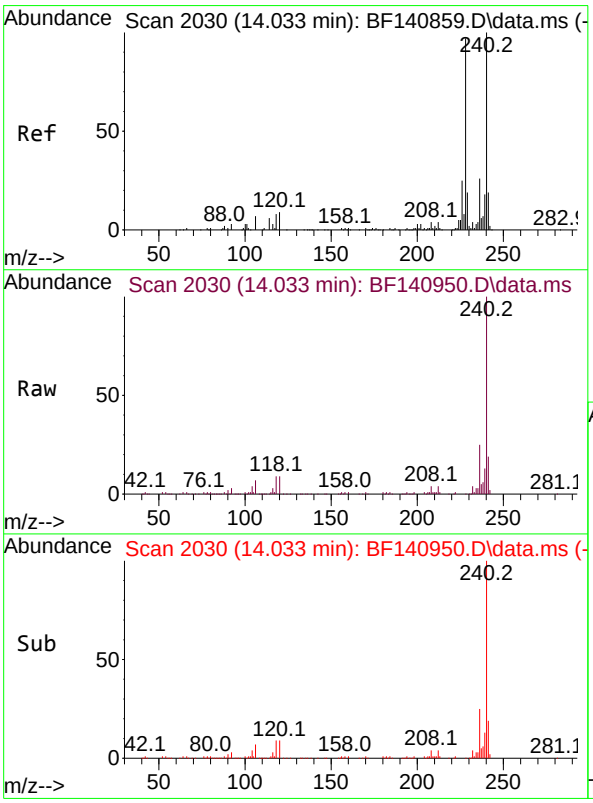
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Tgt Ion:188 Resp: 223066

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	8.8	6.8	10.2

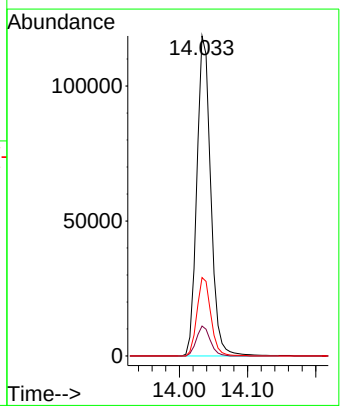


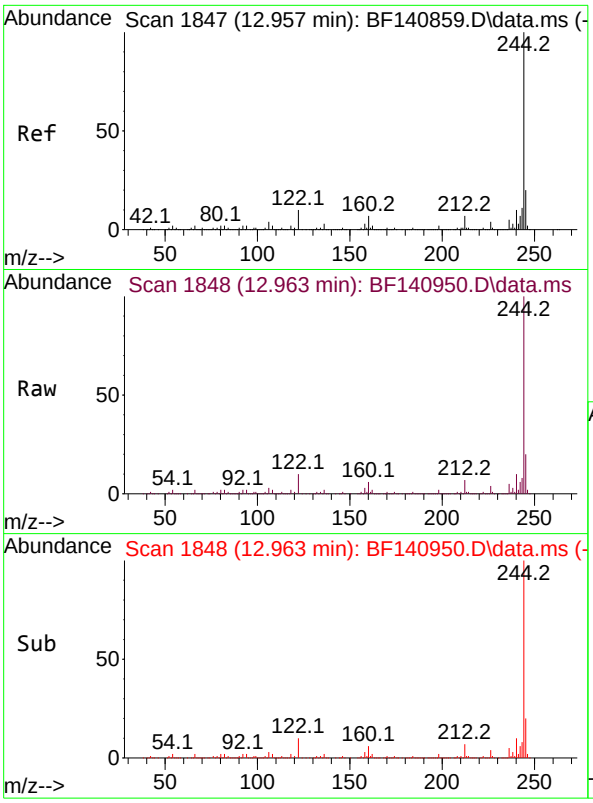


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Tgt Ion:240 Resp: 167929

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.6	11.4
236	24.5	20.5	30.7



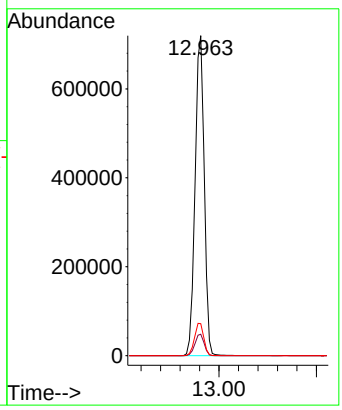


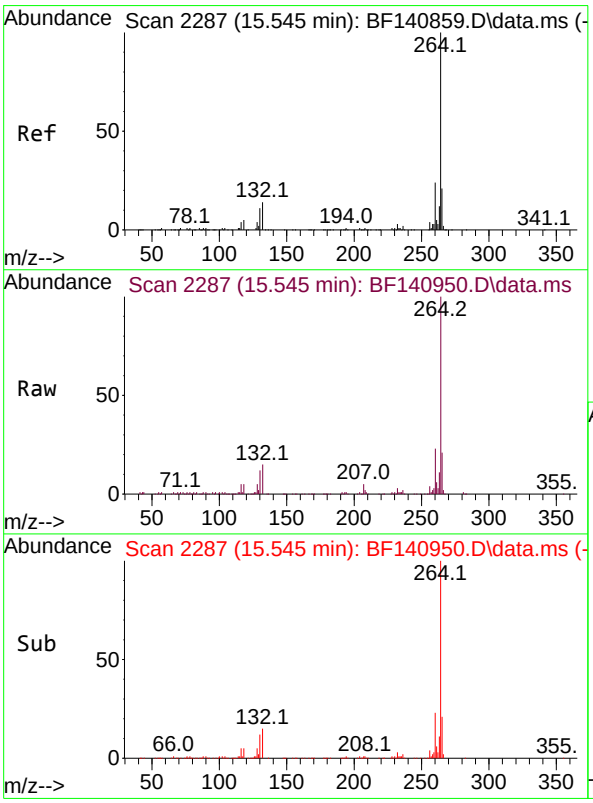
#79
Terphenyl-d14
Concen: 88.965 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-13-121224

Tgt Ion:244 Resp: 947438

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.0	8.2	12.2

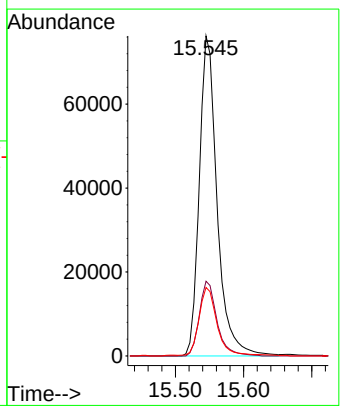




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2287
Delta R.T. -0.000 min
Lab File: BF140950.D
Acq: 20 Dec 2024 15:02

Tgt Ion:264 Resp: 138716

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.4	17.0	25.4



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-14-121224	SDG No.:	P5306
Lab Sample ID:	P5306-15	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	95.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140951.D	1	12/18/24 08:56	12/20/24 15:29	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.086	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.086	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.090	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.085	0.14	0.18	mg/Kg
86-73-7	Fluorene	0.14	U	0.089	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.088	0.14	0.18	mg/Kg
120-12-7	Anthracene	0.14	U	0.088	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.085	0.14	0.18	mg/Kg
129-00-0	Pyrene	0.14	U	0.087	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.084	0.14	0.18	mg/Kg
218-01-9	Chrysene	0.14	U	0.083	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.085	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.086	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.097	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.081	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.085	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.084	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	109		37 - 122		109%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		44 - 115		109%	SPK: 100
1718-51-0	Terphenyl-d14	108		54 - 127		108%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	50500	6.845				
1146-65-2	Naphthalene-d8	205000	8.128				
15067-26-2	Acenaphthene-d10	120000	9.88				
1517-22-2	Phenanthrene-d10	234000	11.374				
1719-03-5	Chrysene-d12	182000	14.039				
1520-96-3	Perylene-d12	129000	15.557				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-14-121224	SDG No.:	P5306
Lab Sample ID:	P5306-15	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	95.9
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140951.D	1	12/18/24 08:56	12/20/24 15:29	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972-60-8	ALACHLOR	N.D					
82-68-8	Quintozine	N.D					

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\BF122024\
Data File : BF140951.D
Acq On : 20 Dec 2024 15:29
Operator : RC/JU
Sample : P5306-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Quant Time: Dec 20 16:04:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

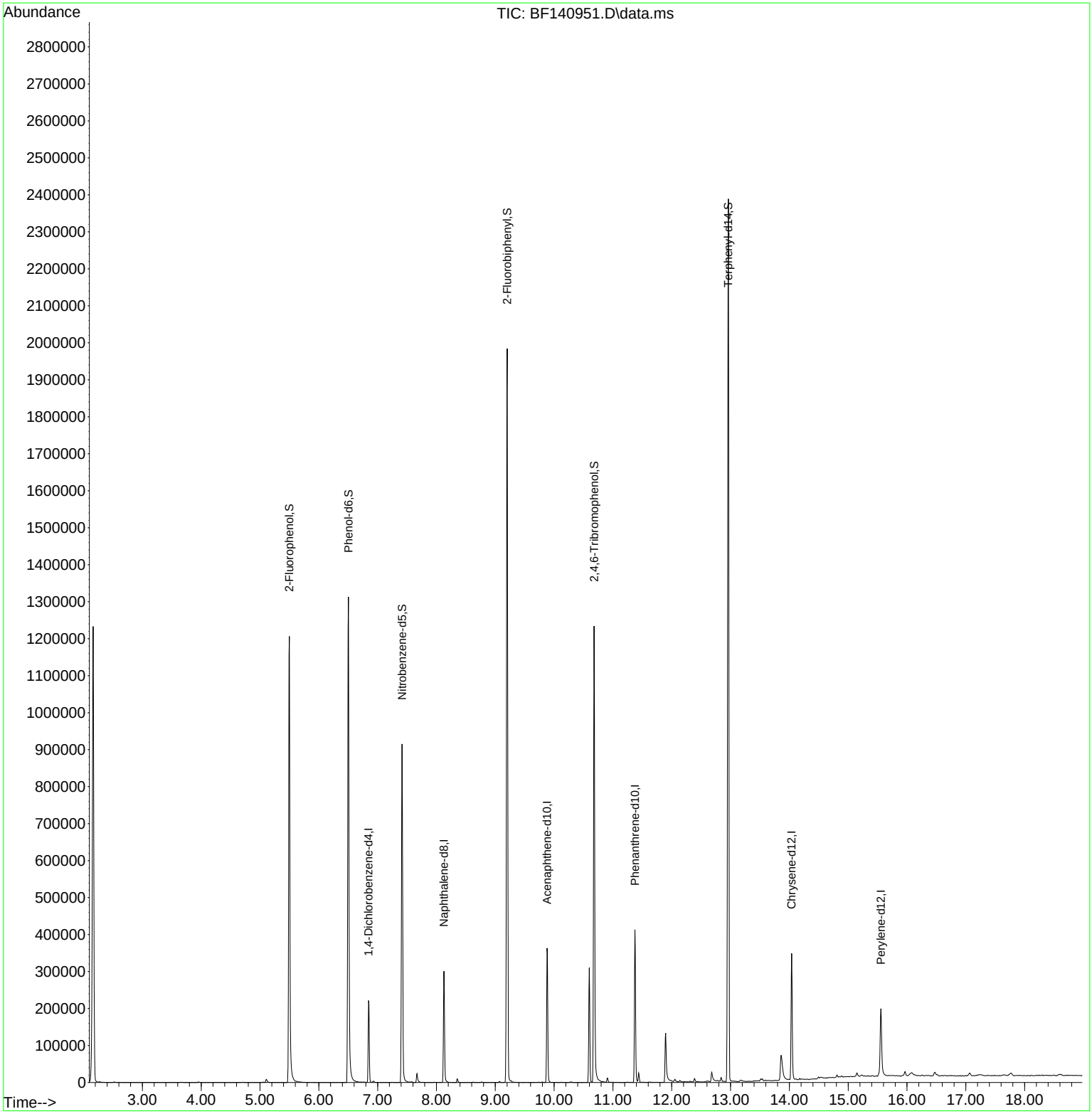
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	50529	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	204987	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	120471	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	234289	20.000	ng	0.00
76) Chrysene-d12	14.039	240	182284	20.000	ng	0.00
86) Perylene-d12	15.557	264	129207	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	521413	169.871	ng	0.01
7) Phenol-d6	6.504	99	701467	172.540	ng	0.00
23) Nitrobenzene-d5	7.416	82	446453	108.966	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	241695	169.631	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	953080	108.768	ng	0.00
79) Terphenyl-d14	12.963	244	1251478	108.261	ng	0.00
Target Compounds						Qvalue

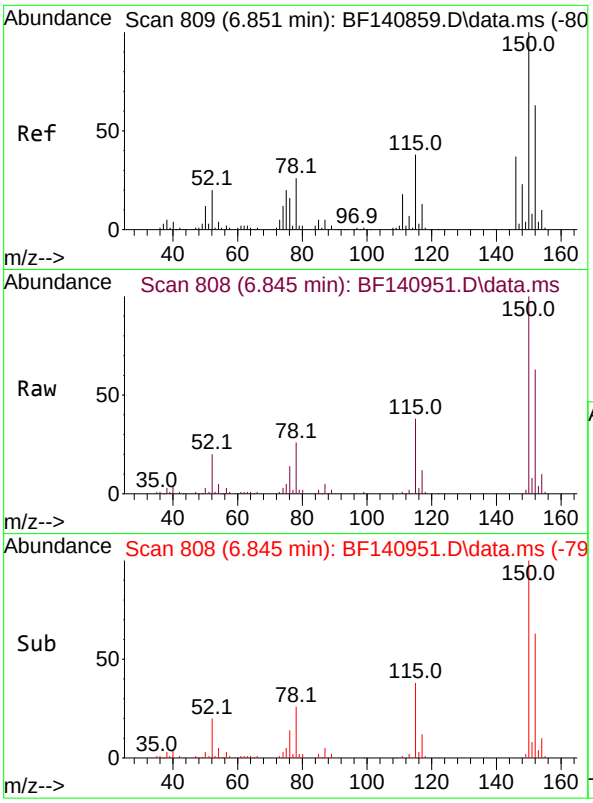
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140951.D
Acq On : 20 Dec 2024 15:29
Operator : RC/JU
Sample : P5306-15
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Quant Time: Dec 20 16:04:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



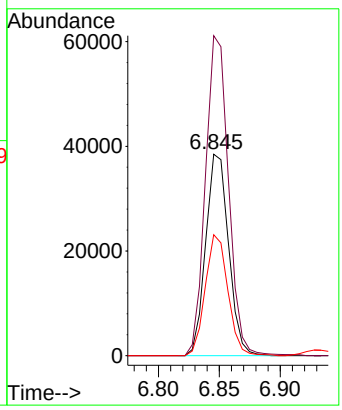


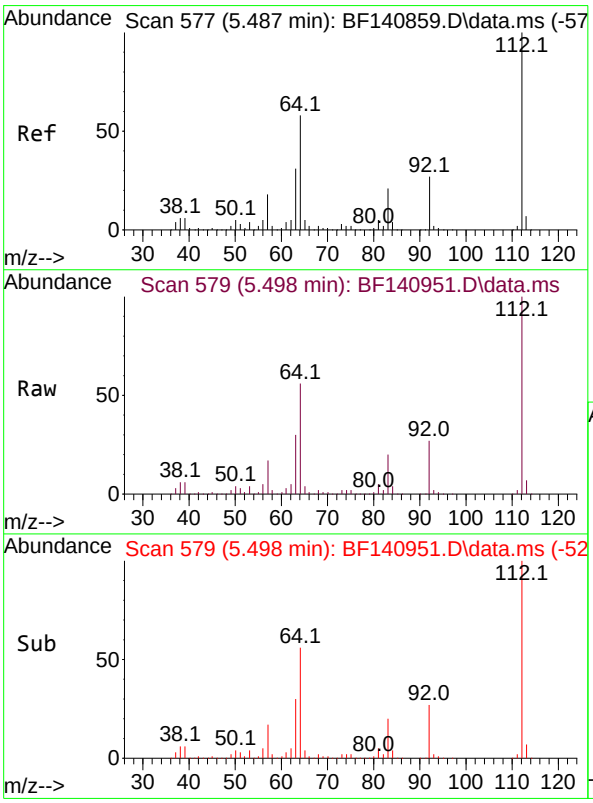
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Tgt Ion:152 Resp: 50529

Ion	Ratio	Lower	Upper
152	100		
150	158.9	127.9	191.9
115	60.1	48.0	72.0

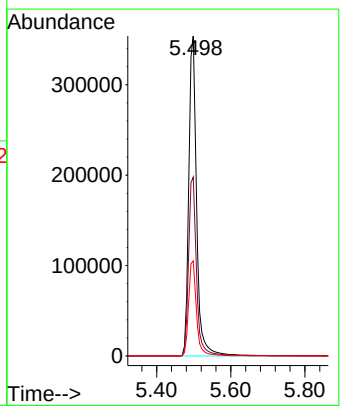


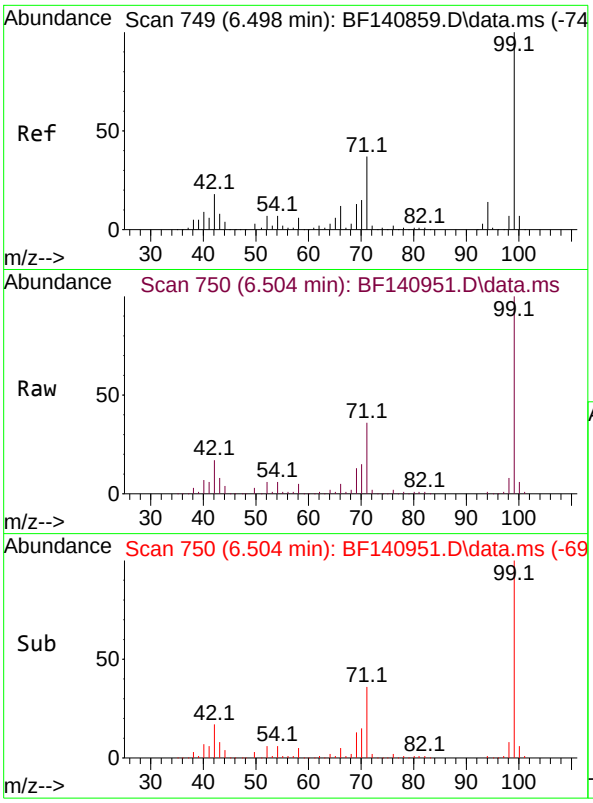


#5
2-Fluorophenol
Concen: 169.871 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Tgt Ion:112 Resp: 521413

Ion	Ratio	Lower	Upper
112	100		
64	55.9	46.1	69.1
63	29.7	24.9	37.3



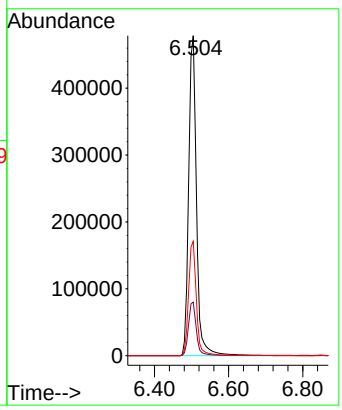


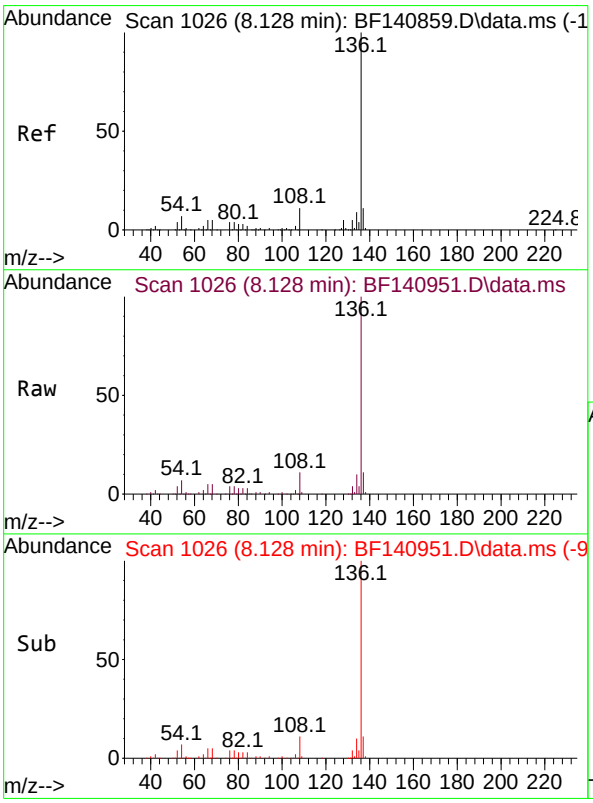
#7
Phenol-d6
Concen: 172.540 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Tgt Ion: 99 Resp: 701467

Ion	Ratio	Lower	Upper
99	100		
42	16.7	14.3	21.5
71	35.7	29.9	44.9

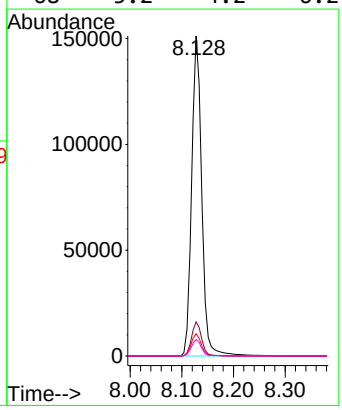


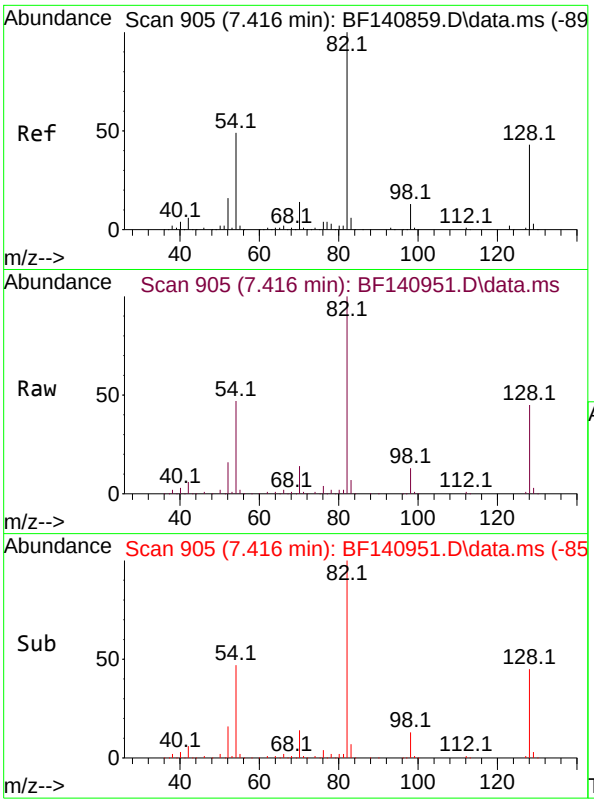


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Tgt Ion:136 Resp: 204987

Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.4
54	7.0	5.6	8.4
68	5.2	4.2	6.2



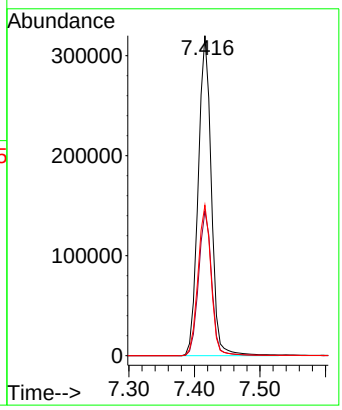


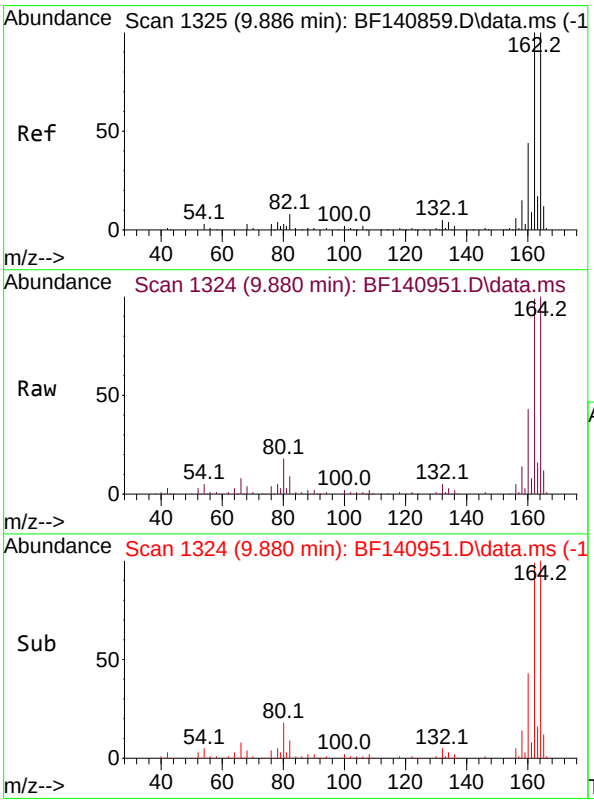
#23
Nitrobenzene-d5
Concen: 108.966 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Tgt Ion: 82 Resp: 446453

Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.4	51.6
54	47.0	38.8	58.2

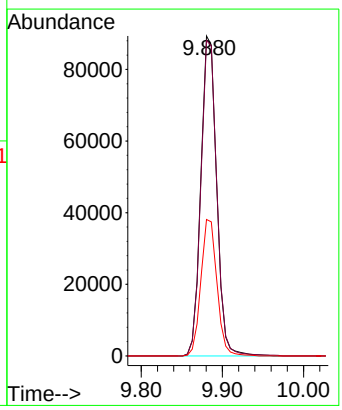


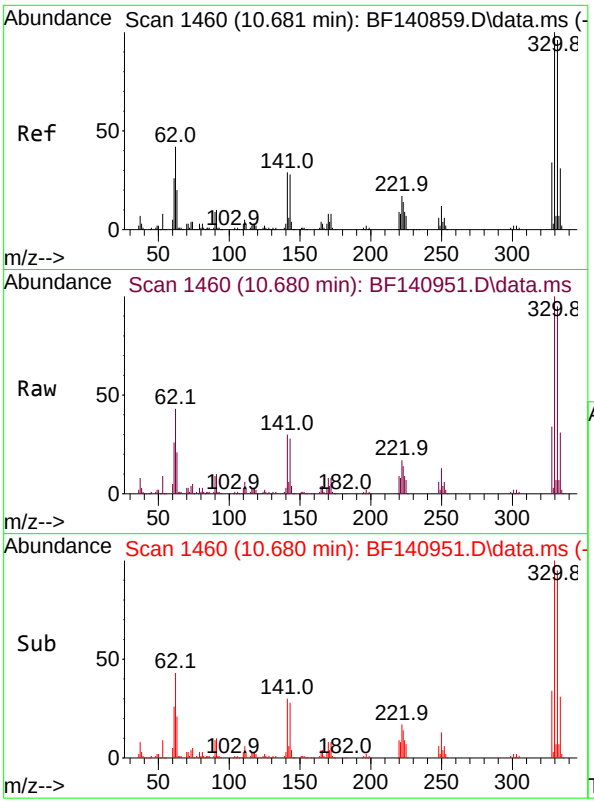


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Tgt Ion:164 Resp: 120471

Ion	Ratio	Lower	Upper
164	100		
162	98.6	79.9	119.9
160	42.7	35.2	52.8



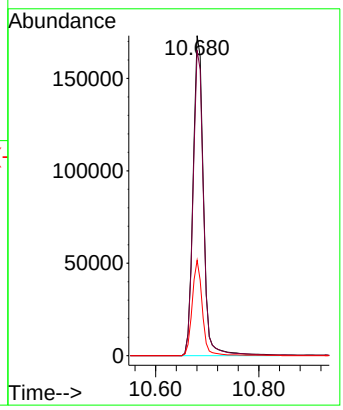


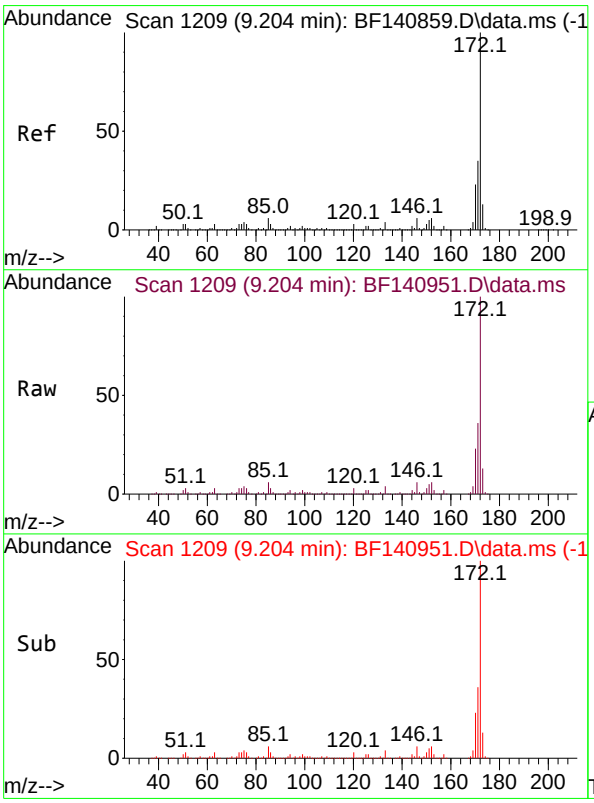
#42
2,4,6-Tribromophenol
Concen: 169.631 ng
RT: 10.680 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Tgt Ion:330 Resp: 241695

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.2	114.4
141	29.1	24.9	37.3

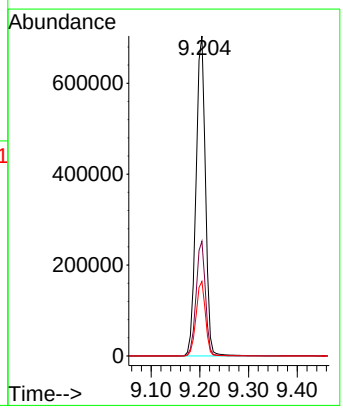


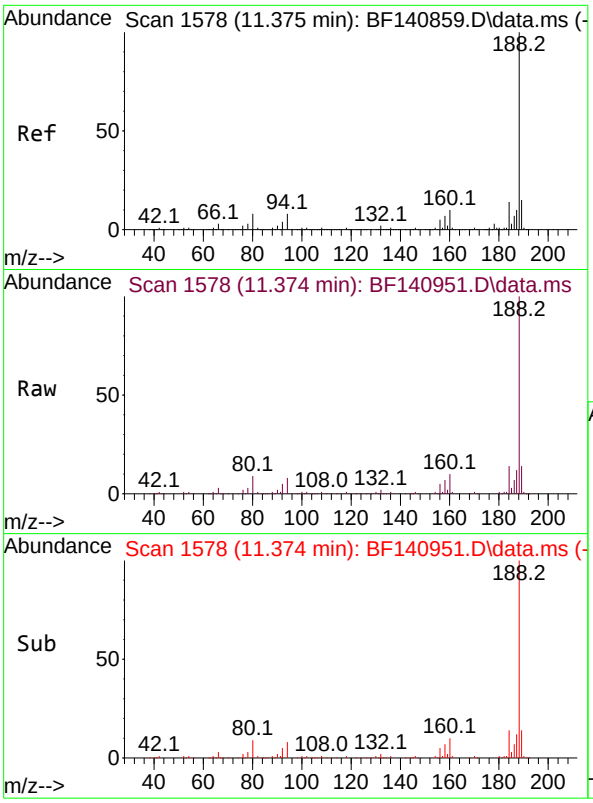


#45
2-Fluorobiphenyl
Concen: 108.768 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Tgt Ion:172 Resp: 953080

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.4	42.6
170	23.3	18.6	28.0



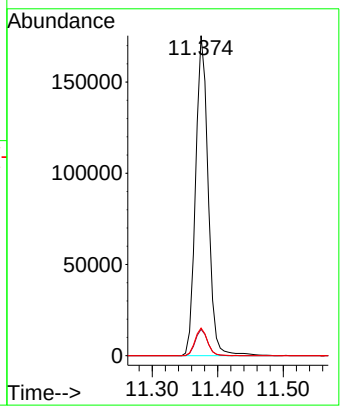


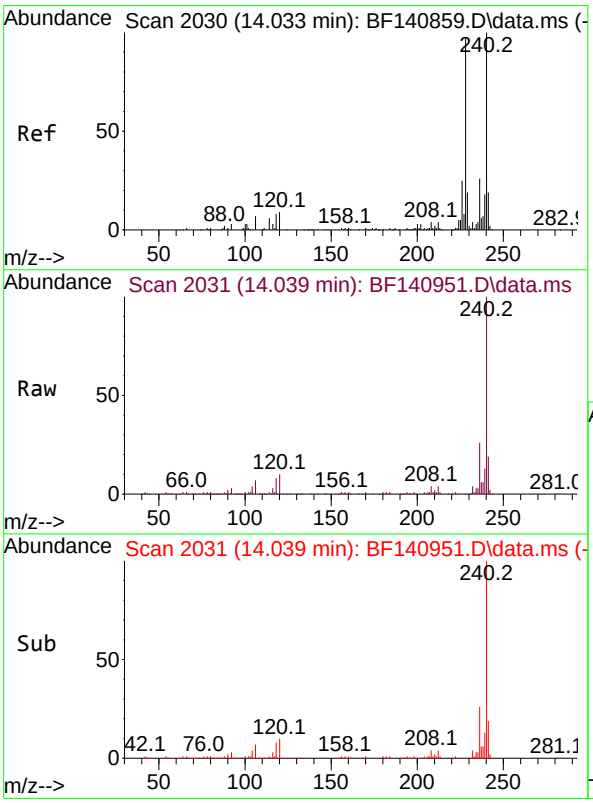
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Tgt Ion:188 Resp: 234289

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.4	9.6
80	8.6	6.8	10.2

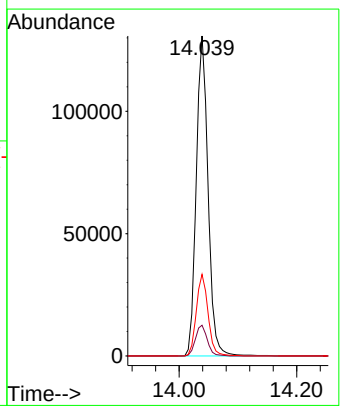


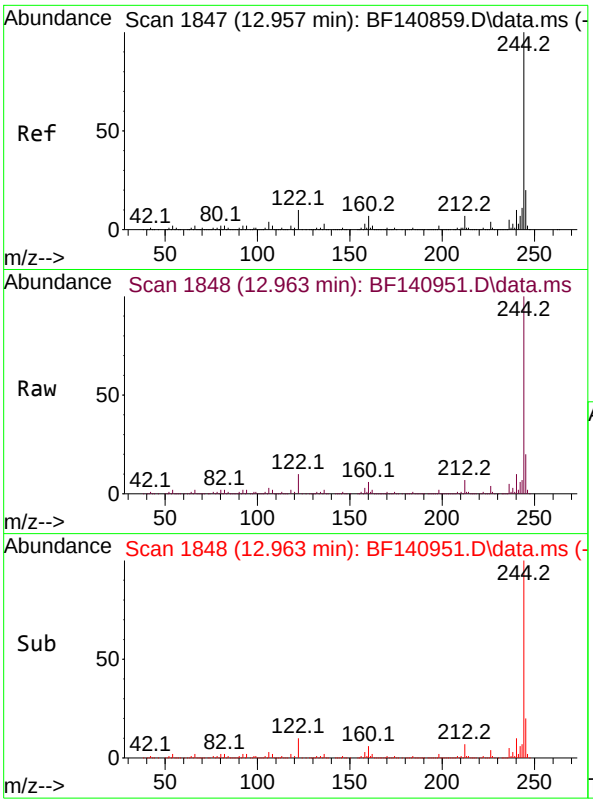


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.006 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Tgt Ion:240 Resp: 182284

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.6	11.4
236	25.5	20.5	30.7



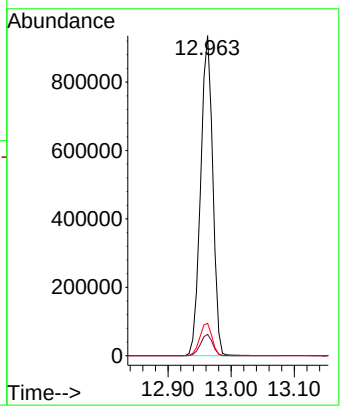


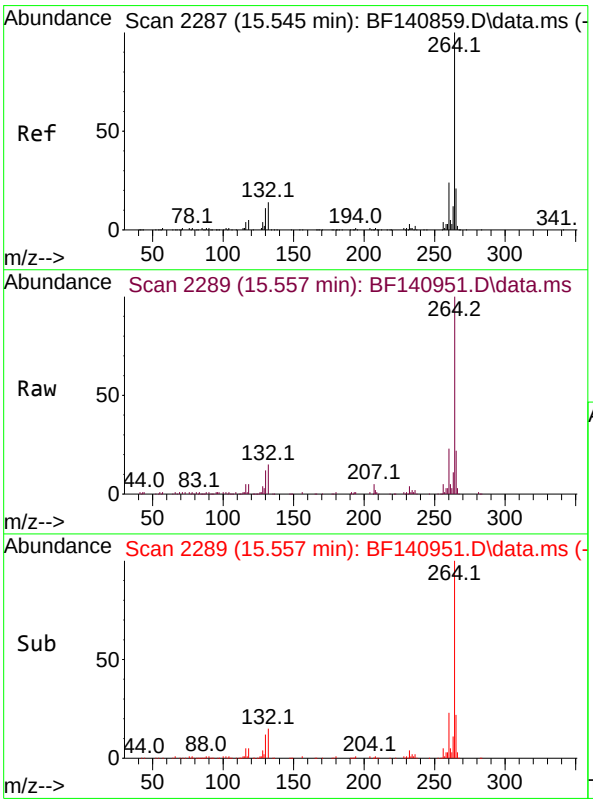
#79
Terphenyl-d14
Concen: 108.261 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-14-121224

Tgt Ion:244 Resp: 1251478

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.1	8.2	12.2

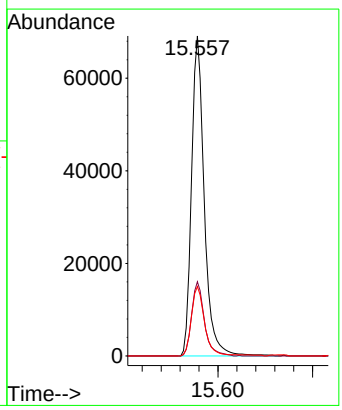




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2289
Delta R.T. 0.012 min
Lab File: BF140951.D
Acq: 20 Dec 2024 15:29

Tgt Ion:264 Resp: 129207

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.1	28.7
265	21.7	17.0	25.4



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF121624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Dec 16 16:59:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140855.D 5 =BF140856.D 10 =BF140857.D 20 =BF140858.D 40 =BF140859.D 50 =BF140860.D 60 =BF140861.D 80 =BF1408
62.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.547	0.536	0.537	0.503	0.520	0.527	0.492	0.523	3.76
3)		Pyridine		1.203	1.182	1.284	1.222	1.221	1.235	1.136	1.212	3.78
4)		n-Nitrosodimet...		0.598	0.593	0.626	0.603	0.621	0.648	0.587	0.611	3.58
5)	S	2-Fluorophenol		1.211	1.236	1.279	1.199	1.231	1.242	1.107	1.215	4.45
6)		Aniline		1.408	1.461	1.448	1.374	1.364	1.369	1.208	1.376	6.06
7)	S	Phenol-d6		1.692	1.661	1.661	1.567	1.576	1.623	1.485	1.609	4.45
8)		2-Chlorophenol		1.343	1.379	1.357	1.301	1.313	1.351	1.230	1.325	3.75
9)		Benzaldehyde		1.048	1.051	0.993	0.864	0.823	0.800	0.663	0.892	16.27
10)	C	Phenol		1.756	1.690	1.733	1.630	1.643	1.688	1.534	1.668	4.44
11)		bis(2-Chloroet...		1.277	1.242	1.281	1.227	1.237	1.267	1.176	1.244	2.93
12)		1,3-Dichlorobe...		1.584	1.540	1.557	1.469	1.495	1.530	1.394	1.510	4.21
13)	C	1,4-Dichlorobe...		1.607	1.601	1.583	1.497	1.495	1.546	1.397	1.532	4.91
14)		1,2-Dichlorobe...		1.521	1.495	1.509	1.436	1.403	1.434	1.322	1.446	4.86
15)		Benzyl Alcohol		1.146	1.143	1.236	1.150	1.143	1.179	1.056	1.151	4.64
16)		2,2'-oxybis(1-...		1.563	1.495	1.519	1.438	1.438	1.443	1.359	1.465	4.53
17)		2-Methylphenol		1.081	1.105	1.080	1.039	1.039	1.067	0.993	1.058	3.51
18)		Hexachloroethane		0.600	0.580	0.585	0.556	0.557	0.580	0.535	0.570	3.86
19)	P	n-Nitroso-di-n...	1.005	1.030	1.004	0.999	0.922	0.938	0.949	0.873	0.965	5.52
20)		3+4-Methylphenols		1.503	1.491	1.440	1.355	1.360	1.396	1.273	1.403	5.82
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.526	0.503	0.520	0.493	0.496	0.518	0.446	0.500	5.41
23)	S	Nitrobenzene-d5		0.406	0.401	0.420	0.393	0.397	0.415	0.366	0.400	4.42
24)		Nitrobenzene		0.418	0.411	0.425	0.402	0.408	0.429	0.375	0.410	4.40
25)		Isophorone		0.681	0.672	0.690	0.651	0.664	0.700	0.631	0.670	3.55
26)	C	2-Nitrophenol		0.183	0.185	0.193	0.187	0.191	0.201	0.180	0.189	3.79
27)		2,4-Dimethylph...		0.221	0.220	0.225	0.220	0.219	0.228	0.210	0.220	2.61
28)		bis(2-Chloroet...		0.431	0.414	0.429	0.417	0.418	0.426	0.394	0.418	3.04
29)	C	2,4-Dichloroph...		0.300	0.310	0.313	0.299	0.301	0.316	0.290	0.304	3.07
30)		1,2,4-Trichlor...		0.360	0.354	0.357	0.341	0.342	0.362	0.325	0.349	3.77
31)		Naphthalene		1.138	1.125	1.126	1.067	1.090	1.124	1.020	1.099	3.86
32)		Benzoic acid			0.173	0.192	0.212	0.220	0.237	0.220	0.209	10.98
33)		4-Chloroaniline		0.371	0.375	0.377	0.361	0.358	0.363	0.349	0.365	2.74
34)	C	Hexachlorobuta...		0.239	0.235	0.244	0.232	0.233	0.239	0.219	0.235	3.42
35)		Caprolactam		0.085	0.090	0.090	0.090	0.089	0.092	0.097	0.091	3.88
36)	C	4-Chloro-3-met...		0.342	0.347	0.347	0.338	0.332	0.342	0.348	0.342	1.72
37)		2-Methylnaphth...		0.744	0.734	0.740	0.721	0.700	0.719	0.729	0.727	2.08
38)		1-Methylnaphth...		0.758	0.743	0.716	0.706	0.686	0.706	0.716	0.719	3.36

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF121624.M

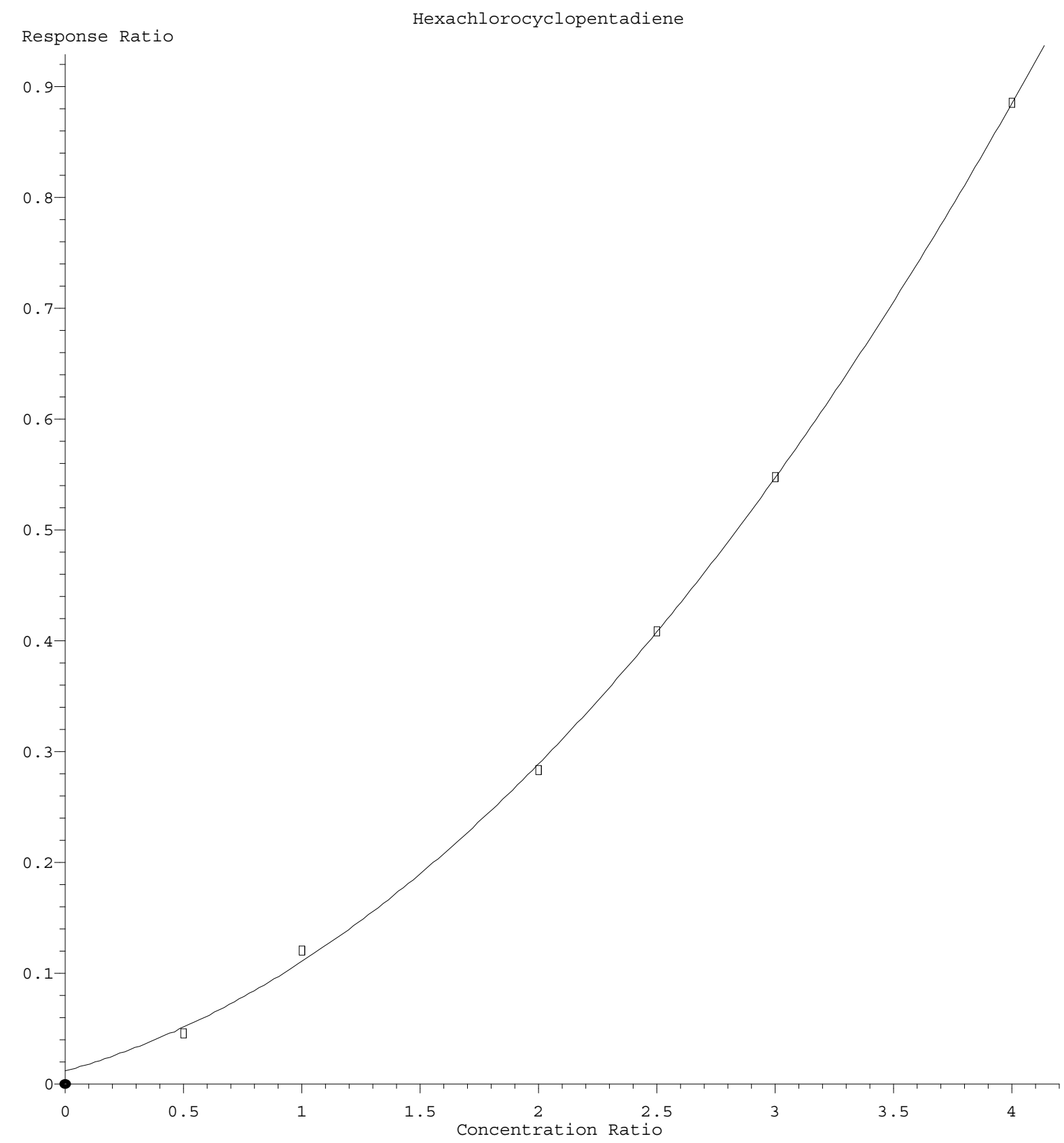
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.622	0.573	0.641	0.580	0.576	0.622	0.689	0.615	6.88
41)	P	Hexachlorocycl...		0.091	0.120	0.142	0.163	0.183	0.221	0.153	30.05
42)	S	2,4,6-Tribromo...	0.235	0.236	0.242	0.240	0.235	0.243	0.225	0.237	2.56
43)	C	2,4,6-Trichlor...	0.348	0.339	0.386	0.364	0.357	0.395	0.446	0.376	9.68
44)		2,4,5-Trichlor...	0.413	0.365	0.426	0.397	0.395	0.426	0.475	0.414	8.28
45)	S	2-Fluorobiphenyl	1.560	1.410	1.538	1.369	1.345	1.445	1.517	1.455	5.85
46)		1,1'-Biphenyl	1.678	1.512	1.639	1.513	1.463	1.575	1.752	1.590	6.54
47)		2-Chloronaphth...	1.236	1.157	1.254	1.169	1.124	1.206	1.370	1.217	6.69
48)		2-Nitroaniline	0.350	0.346	0.372	0.358	0.341	0.378	0.428	0.367	8.14
49)		Acenaphthylene	1.874	1.821	1.880	1.734	1.696	1.783	1.727	1.788	4.09
50)		Dimethylphthalate	1.431	1.367	1.438	1.359	1.308	1.417	1.549	1.410	5.45
51)		2,6-Dinitrotol...	0.320	0.317	0.328	0.312	0.303	0.321	0.355	0.322	5.06
52)	C	Acenaphthene	1.228	1.190	1.166	1.113	1.100	1.148	1.049	1.142	5.25
53)		3-Nitroaniline	0.322	0.316	0.328	0.316	0.325	0.325	0.307	0.320	2.29
54)	P	2,4-Dinitrophenol		0.088	0.108	0.134	0.145	0.160	0.157	0.132	21.60
55)		Dibenzofuran	1.920	1.876	1.830	1.728	1.705	1.746	1.583	1.770	6.48
56)	P	4-Nitrophenol		0.091	0.133	0.165	0.169	0.176	0.167	0.150	21.61
57)		2,4-Dinitrotol...	0.435	0.438	0.440	0.419	0.421	0.426	0.389	0.424	4.12
58)		Fluorene	1.573	1.522	1.492	1.444	1.429	1.425	1.335	1.460	5.29
59)		2,3,4,6-Tetrac...	0.297	0.312	0.345	0.354	0.356	0.356	0.341	0.337	6.99
60)		Diethylphthalate	1.562	1.484	1.496	1.439	1.446	1.461	1.346	1.462	4.48
61)		4-Chlorophenyl...	0.780	0.750	0.759	0.716	0.727	0.728	0.674	0.733	4.62
62)		4-Nitroaniline	0.329	0.333	0.339	0.338	0.343	0.339	0.320	0.334	2.37
63)		Azobenzene	1.482	1.411	1.394	1.368	1.358	1.334	1.273	1.375	4.74
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.109	0.117	0.118	0.129	0.109	0.113	8.96
66)	c	n-Nitrosodiphe...	0.639	0.679	0.644	0.599	0.592	0.626	0.527	0.615	7.90
67)		4-Bromophenyl-...	0.225	0.248	0.236	0.220	0.214	0.231	0.192	0.224	7.97
68)		Hexachlorobenzene	0.257	0.280	0.268	0.246	0.245	0.258	0.223	0.254	7.24
69)		Atrazine	0.200	0.204	0.193	0.168	0.153	0.157	0.127	0.172	16.48
70)	C	Pentachlorophenol		0.062	0.082	0.098	0.102	0.106	0.106	0.093	18.65
71)		Phenanthrene	1.125	1.081	1.072	0.983	0.988	1.013	0.937	1.028	6.45
72)		Anthracene	1.091	1.064	1.053	0.970	0.978	1.000	0.934	1.013	5.66
73)		Carbazole	1.086	1.018	1.026	0.952	0.972	0.970	0.920	0.992	5.58
74)		Di-n-butylphth...	1.245	1.206	1.232	1.129	1.185	1.186	0.968	1.164	8.12
75)	C	Fluoranthene	1.364	1.291	1.251	1.130	1.138	1.175	0.943	1.184	11.51
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.319	0.401	0.404	0.493	0.454	0.378	0.408	14.76
78)		Pyrene	1.904	1.719	1.650	1.699	1.761	1.769	1.948	1.779	6.12
79)	S	Terphenyl-d14	1.354	1.247	1.218	1.206	1.212	1.260	1.381	1.268	5.58
80)		Butylbenzylpht...	0.650	0.616	0.621	0.646	0.672	0.681	0.696	0.654	4.59
81)		Benzo(a)anthra...	1.494	1.473	1.421	1.359	1.388	1.418	1.369	1.417	3.60
82)		3,3'-Dichlorob...	0.429	0.427	0.449	0.412	0.432	0.446	0.399	0.428	4.14
83)		Chrysene	1.361	1.284	1.364	1.271	1.254	1.283	1.206	1.289	4.40
84)		Bis(2-ethylhex...	0.804	0.807	0.875	0.821	0.855	0.890	0.855	0.844	3.99
85)	c	Di-n-octyl pht...	1.267	1.170	1.348	1.223	1.341	1.324	1.263	1.277	5.17

Response Factor Report BNA_F

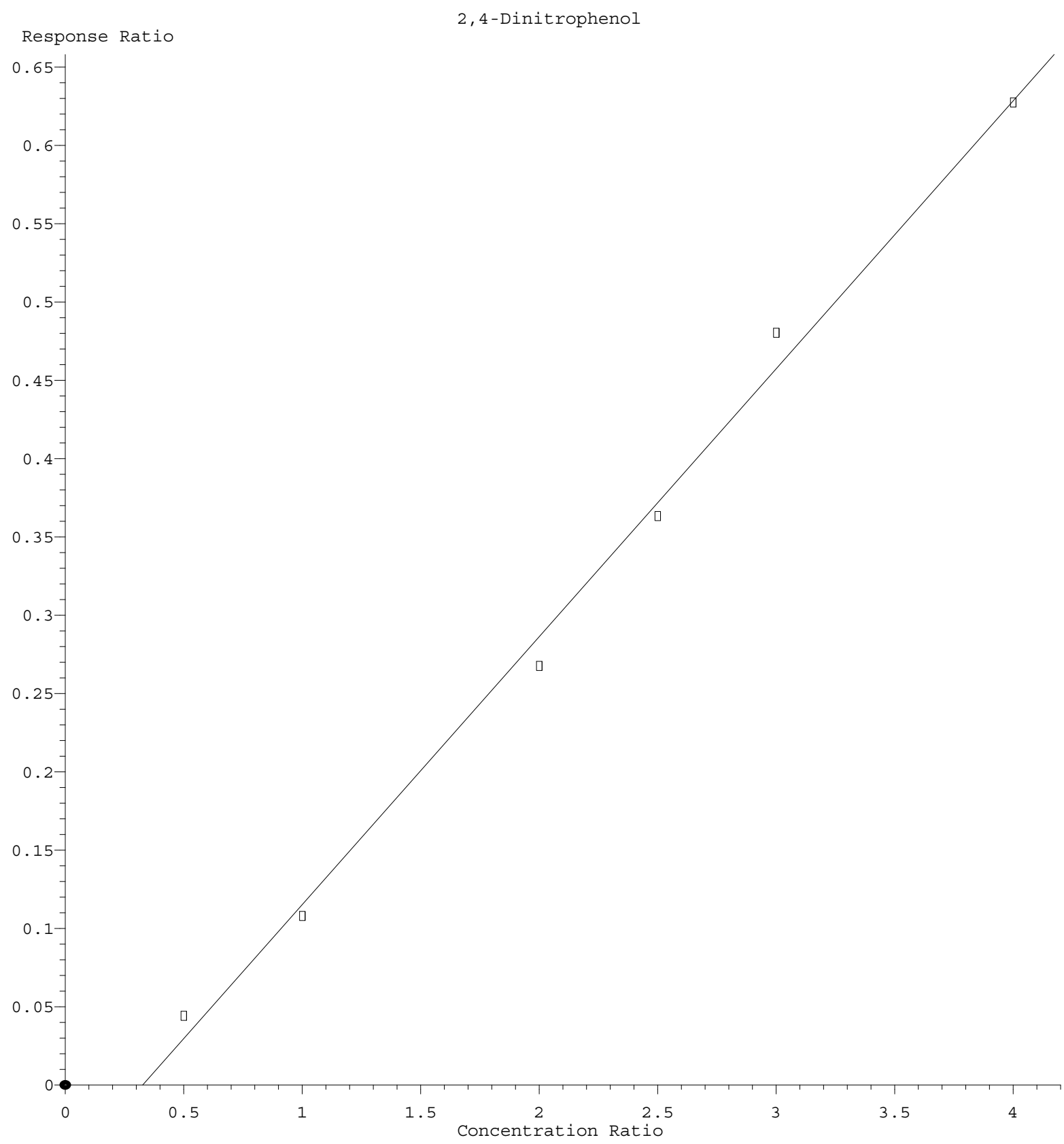
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF121624.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.130	1.174	1.330	1.269	1.109	1.330	1.395	1.248	8.90
88)		Benzo(b)fluora...	1.454	1.466	1.450	1.294	1.263	1.442	1.349	1.388	6.11
89)		Benzo(k)fluora...	1.318	1.250	1.223	1.224	1.142	1.182	0.996	1.191	8.57
90)	C	Benzo(a)pyrene	1.099	1.084	1.134	1.073	1.056	1.122	1.042	1.087	3.10
91)		Dibenzo(a,h)an...	0.913	0.986	1.092	1.058	0.918	1.116	1.154	1.034	9.30
92)		Benzo(g,h,i)pe...	0.961	0.972	1.094	1.073	0.944	1.098	1.225	1.052	9.53

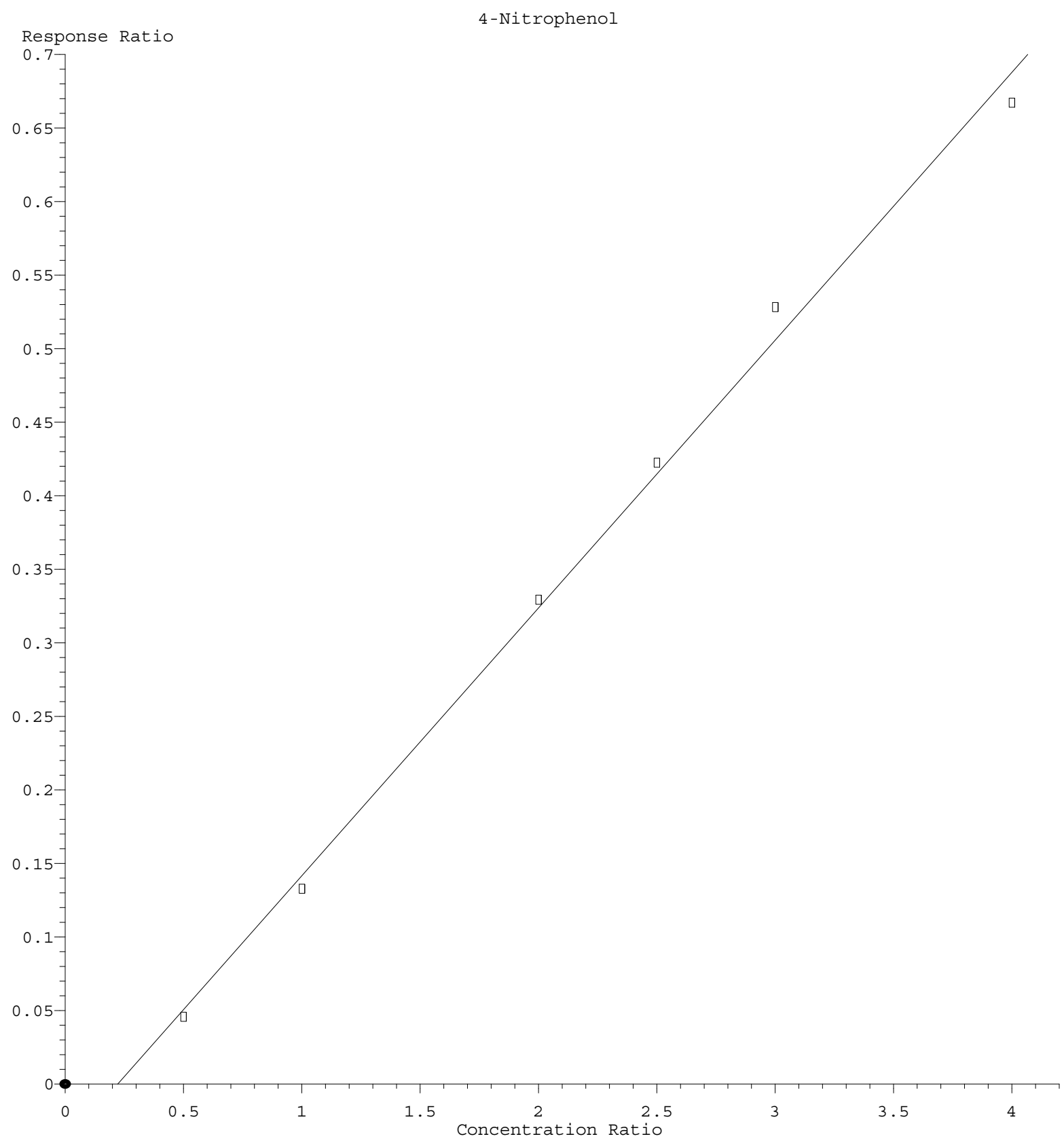
(#) = Out of Range



R = 3.984e-002 A*A + 5.892e-002 A + 1.177e-002
Coef of Det (r^2) = 0.999663 Curve Fit: Quadratic
Method: \\chemsrv\HPCHEM1\BNA F\Methods\8270-BF121624.M
Calibration Table Last Updated: Mon Dec 16 16:59:50 2024



Response = 1.713e-001 * Amt - 5.602e-002
Coef of Det (r^2) = 0.995067 Curve Fit: Linear
Method: P:\5300-SVOCMS Group3\HPCHEM1\BNA F\Methods\8270-BF121624.M
Calibration Table Last Updated: Mon Dec 16 16:59:50 2024



Response = 1.822e-001 * Amt - 4.046e-002
Coef of Det (r^2) = 0.995956 Curve Fit: Linear
Method: P:\ChemData\srv\HPCHEM1\BNA F\Methods\8270-BF121624.M
Calibration Table Last Updated: Mon Dec 16 16:59:50 2024

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140855.D
Acq On : 16 Dec 2024 12:13
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Dec 16 16:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

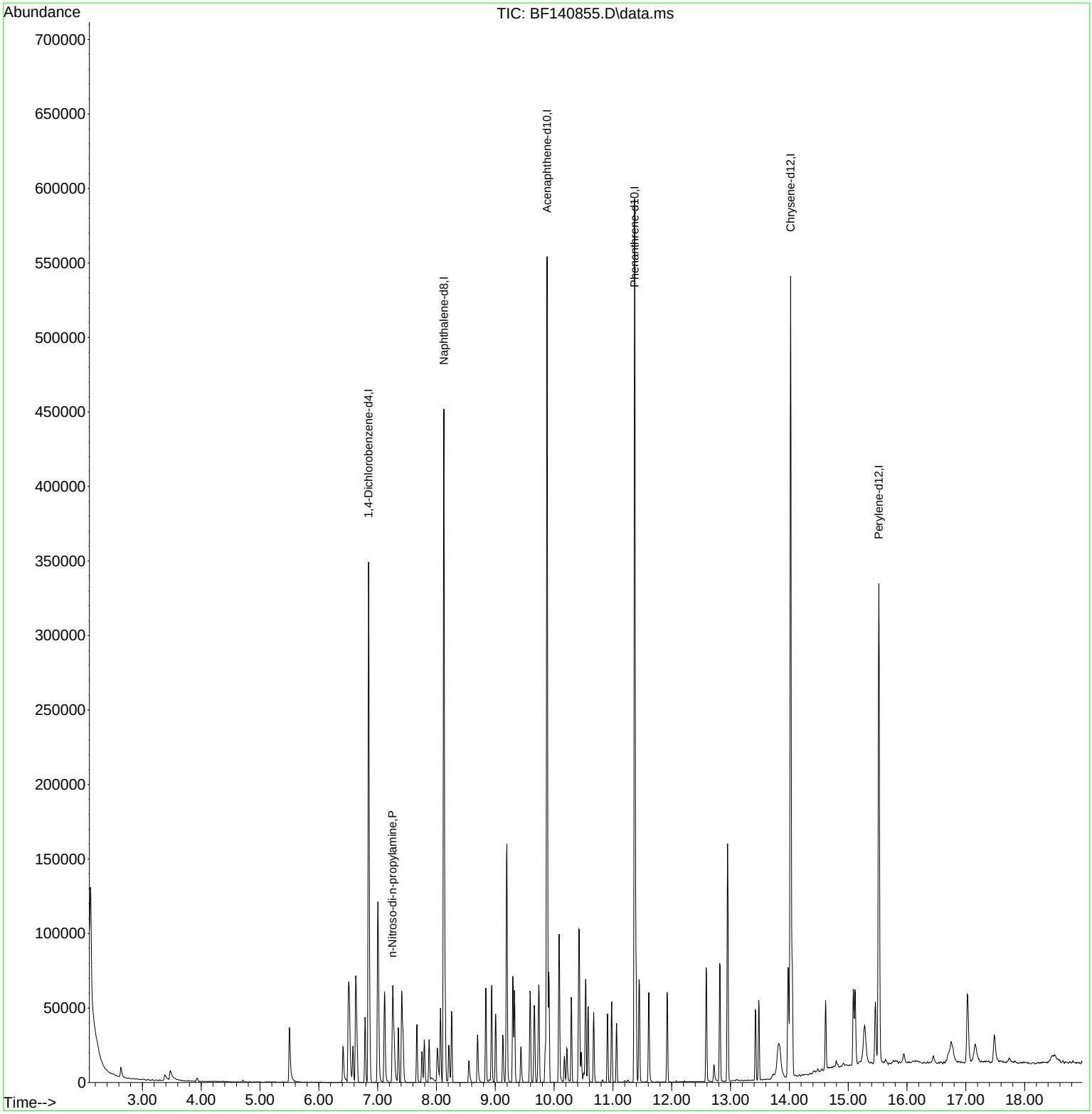
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	74199	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	283096	20.000	ng	0.00
39) Acenaphthene-d10	9.880	164	161044	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	317916	20.000	ng	0.00
76) Chrysene-d12	14.021	240	234189	20.000	ng	-0.01
86) Perylene-d12	15.521	264	191083	20.000	ng	-0.02
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...	7.251	70	9325	2.604	ng	97

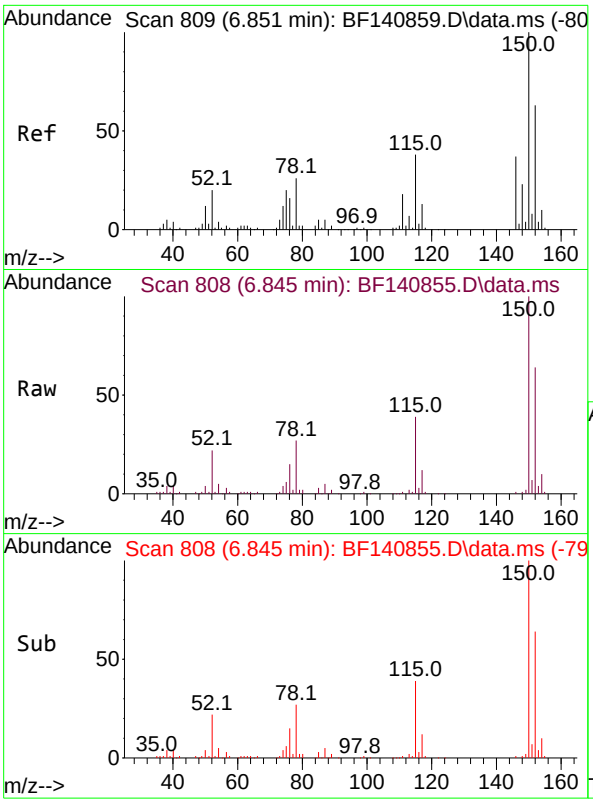
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140855.D
Acq On : 16 Dec 2024 12:13
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Dec 16 16:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



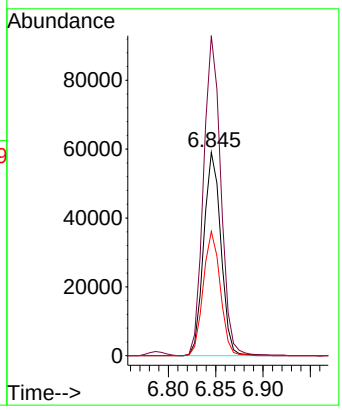


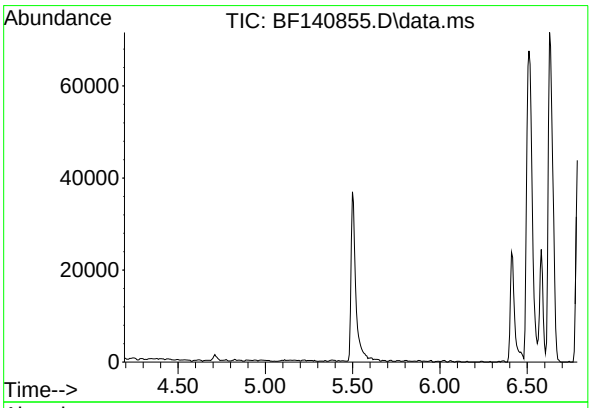
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 74199

Ion	Ratio	Lower	Upper
152	100		
150	157.3	127.9	191.9
115	61.0	48.0	72.0



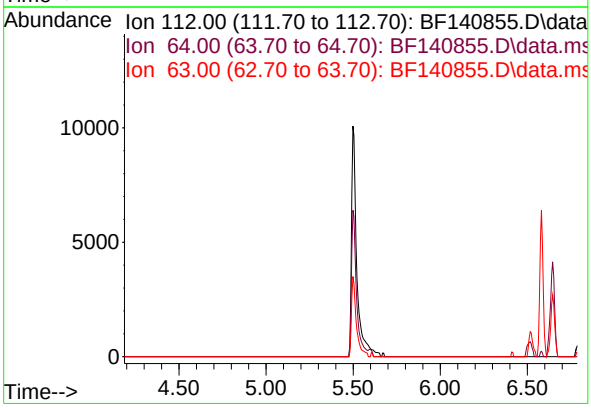


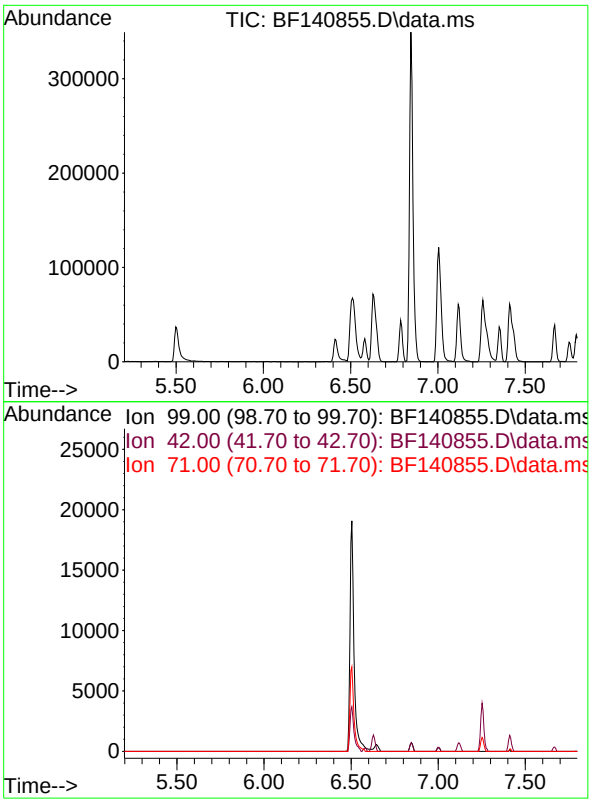
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.49 min

Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	57.6
63	31.1





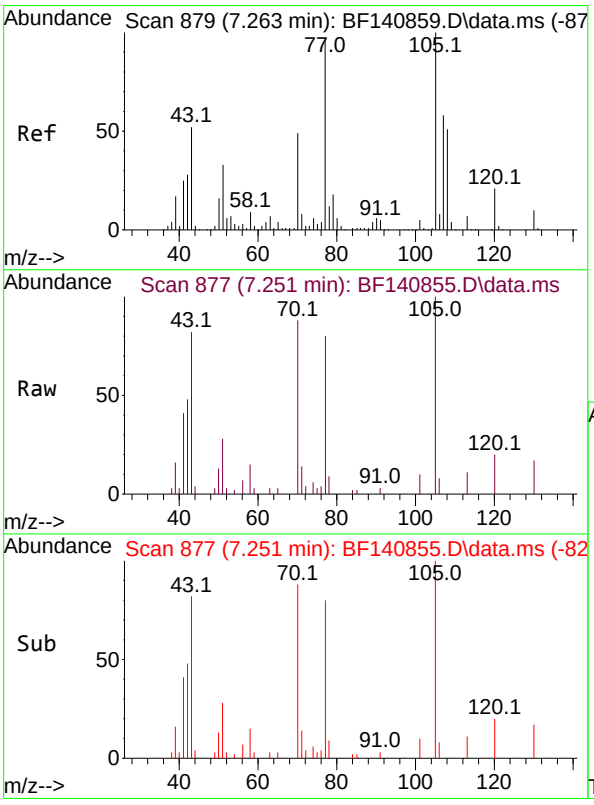
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.50 min

Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

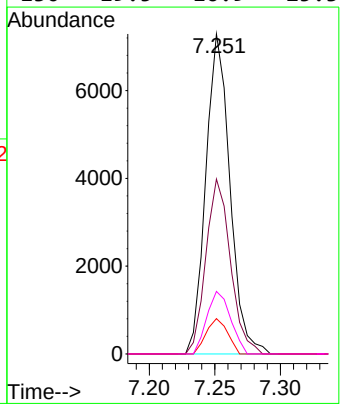
Sig	Exp Ratio
99	100
42	17.9
71	37.4

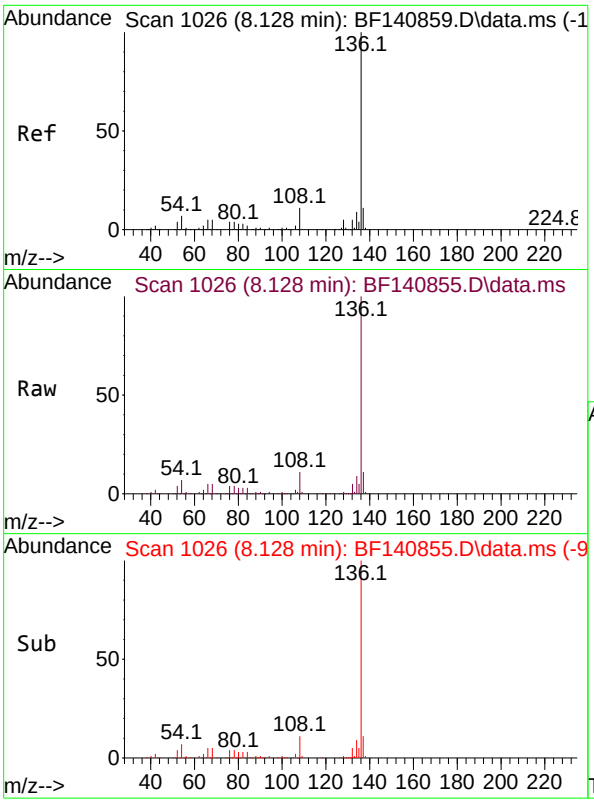


#19
n-Nitroso-di-n-propylamine
Concen: 2.604 ng
RT: 7.251 min Scan# 877
Delta R.T. -0.012 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Tgt Ion: 70 Resp: 9325

Ion	Ratio	Lower	Upper
70	100		
42	54.7	45.3	67.9
101	11.0	8.0	12.0
130	19.5	16.9	25.3



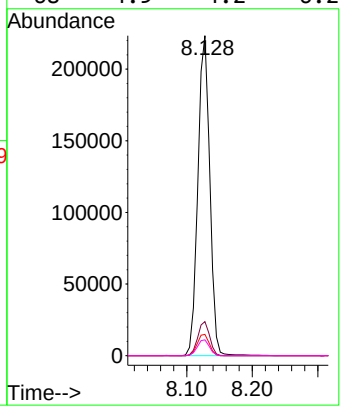


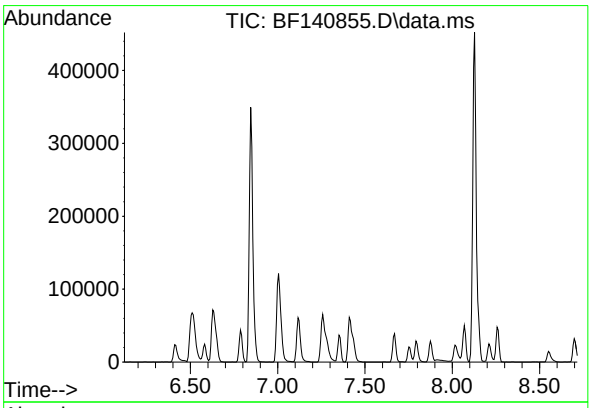
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 283096

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.7	5.6	8.4
68	4.9	4.2	6.2



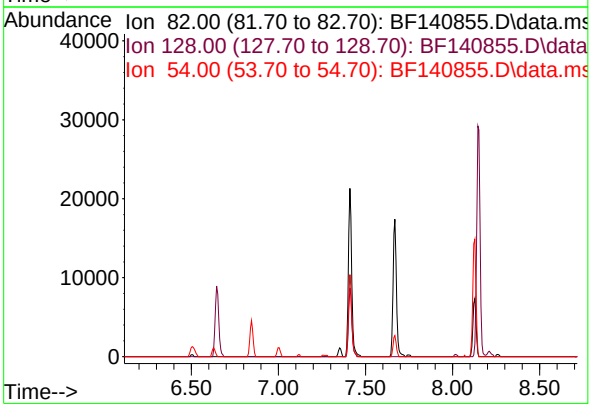


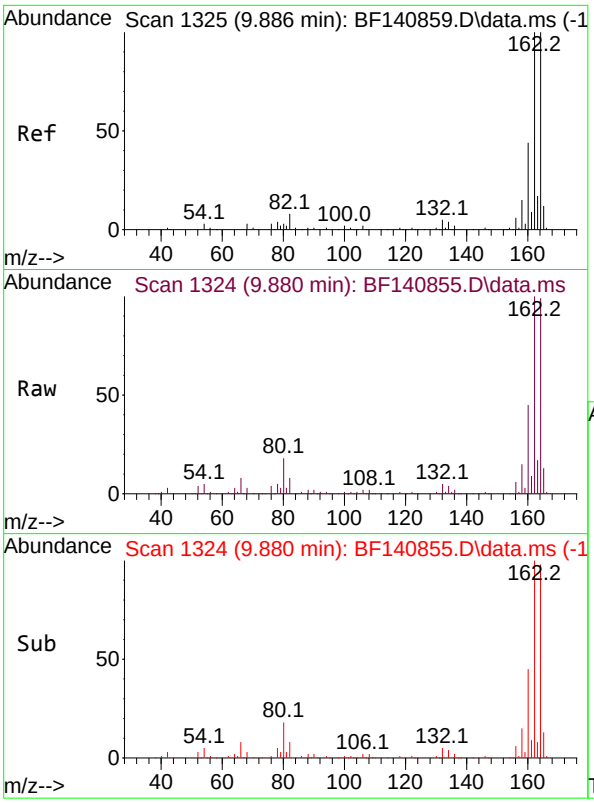
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.42 min

Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	43.0
54	48.5



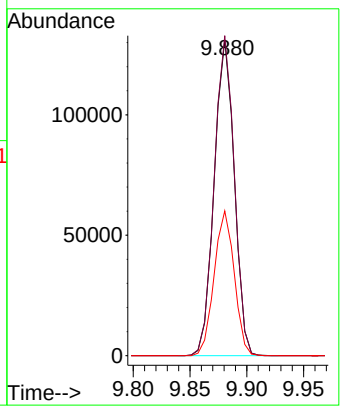


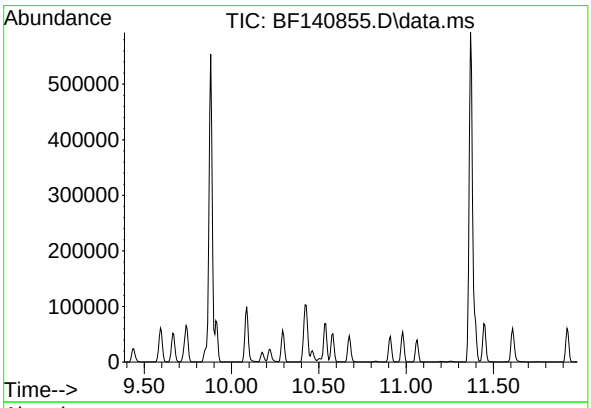
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 161044

Ion	Ratio	Lower	Upper
164	100		
162	101.4	79.9	119.9
160	45.9	35.2	52.8



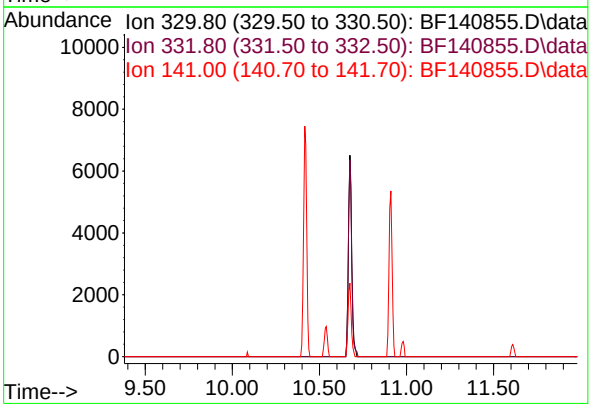


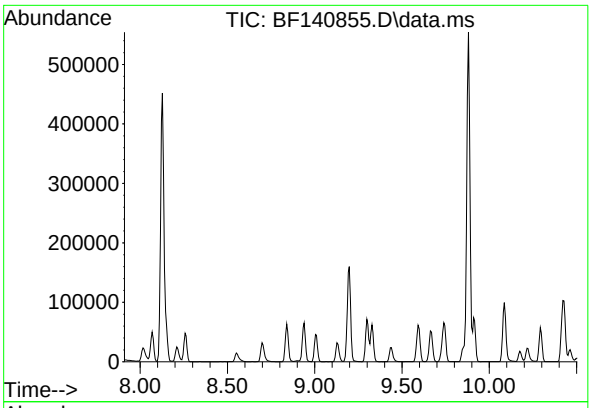
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.68 min

Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.3
141	31.1





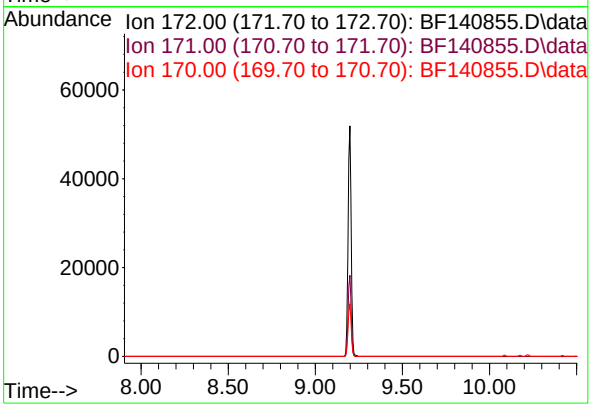
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.20 min

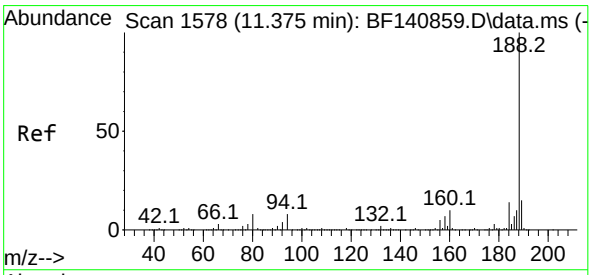
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

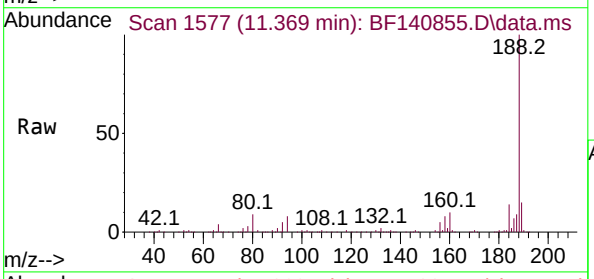
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

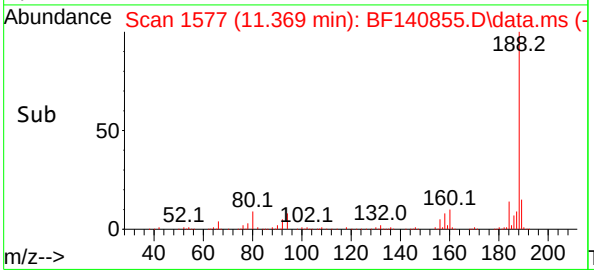
Tgt Ion: 172

Sig	Exp Ratio
172	100
171	35.5
170	23.3





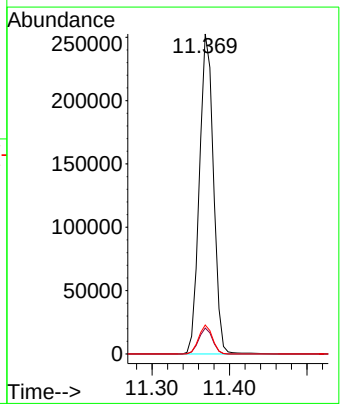


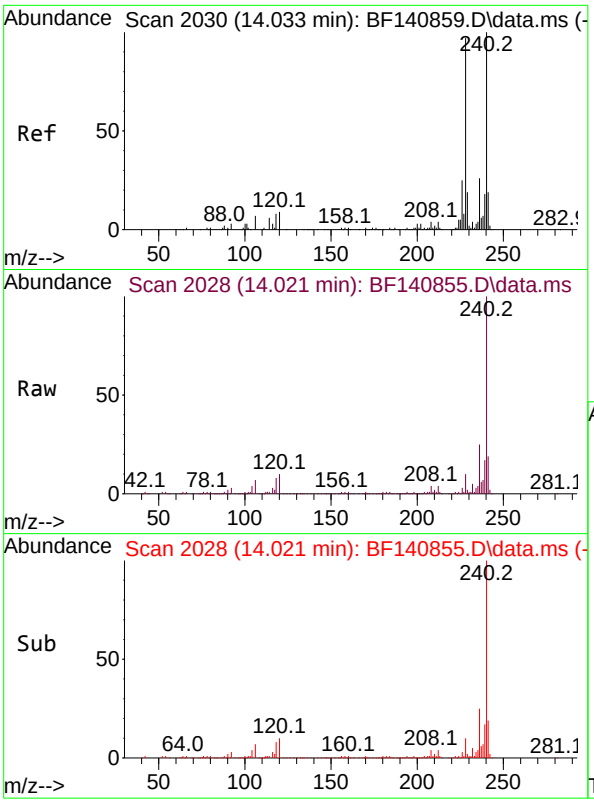


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Tgt Ion:188 Resp: 317916

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.4	9.6
80	9.0	6.8	10.2



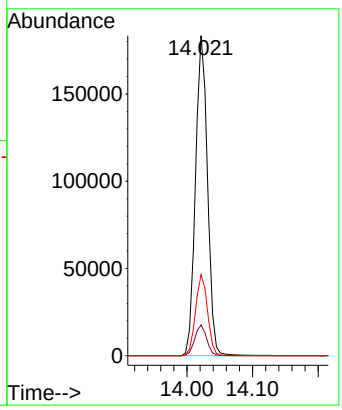


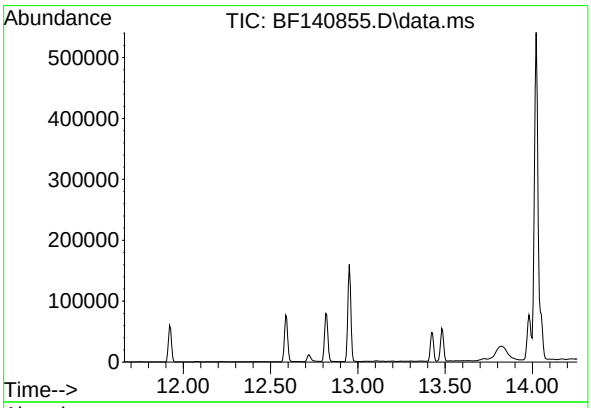
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 234189

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.6	11.4
236	25.4	20.5	30.7



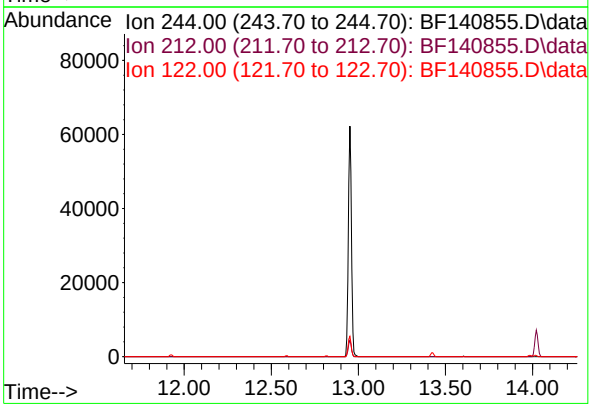


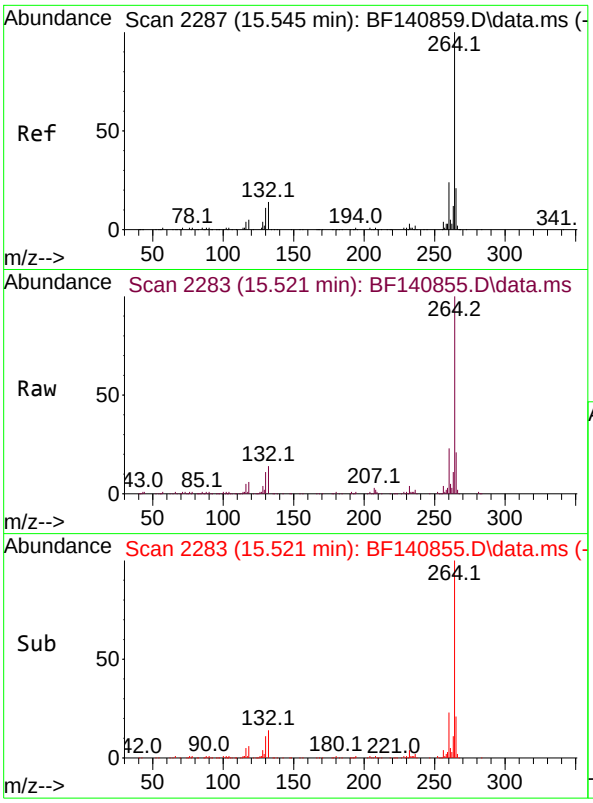
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.96 min

Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.0
122	10.2



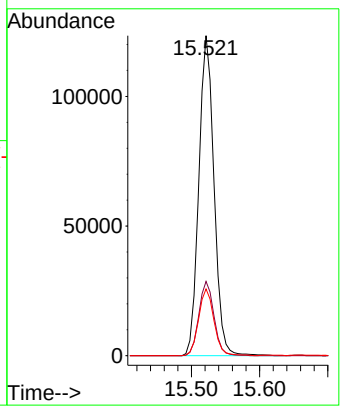


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF140855.D
Acq: 16 Dec 2024 12:13

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 191083

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.1	28.7
265	20.9	17.0	25.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140856.D
Acq On : 16 Dec 2024 12:39
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Dec 16 16:46:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.845	152	79655	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	306130	20.000	ng		0.00
39) Acenaphthene-d10	9.880	164	181131	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	379227	20.000	ng		0.00
76) Chrysene-d12	14.021	240	302472	20.000	ng		-0.01
86) Perylene-d12	15.527	264	241868	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	48219	9.965	ng		0.00
7) Phenol-d6	6.498	99	67396	10.516	ng		0.00
23) Nitrobenzene-d5	7.410	82	62104	10.150	ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	21315	9.950	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	141311	10.726	ng		0.00
79) Terphenyl-d14	12.951	244	204731	10.673	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	10891	5.225	ng		93
3) Pyridine	3.446	79	23956	4.963	ng		98
4) n-Nitrosodimethylamine	3.363	42	11912	4.895	ng		94
6) Aniline	6.516	93	28034	5.116	ng		96
8) 2-Chlorophenol	6.645	128	26751	5.070	ng		97
9) Benzaldehyde	6.410	77	20868	5.876	ng		98
10) Phenol	6.510	94	34967	5.264	ng		90
11) bis(2-Chloroethyl)ether	6.581	93	25426	5.133	ng		97
12) 1,3-Dichlorobenzene	6.787	146	31542	5.246	ng		99
13) 1,4-Dichlorobenzene	6.863	146	32009	5.245	ng		99
14) 1,2-Dichlorobenzene	7.016	146	30294	5.261	ng		97
15) Benzyl Alcohol	6.998	79	22831	4.982	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.116	45	31121	5.333	ng		84
17) 2-Methylphenol	7.116	107	21534	5.112	ng		94
18) Hexachloroethane	7.351	117	11948	5.259	ng		98
19) n-Nitroso-di-n-propyla...	7.251	70	20518	5.337	ng		99
20) 3+4-Methylphenols	7.275	107	29921	5.356	ng	#	72
22) Acetophenone	7.257	105	40223	5.252	ng		94
24) Nitrobenzene	7.428	77	31964	5.099	ng		99
25) Isophorone	7.669	82	52133	5.085	ng		99
26) 2-Nitrophenol	7.751	139	13994	4.847	ng		99
27) 2,4-Dimethylphenol	7.792	122	16915	5.017	ng		96
28) bis(2-Chloroethoxy)met...	7.875	93	32959	5.147	ng		97
29) 2,4-Dichlorophenol	8.010	162	22982	4.937	ng		98
30) 1,2,4-Trichlorobenzene	8.069	180	27533	5.160	ng		99
31) Naphthalene	8.145	128	87082	5.179	ng		99
33) 4-Chloroaniline	8.210	127	28431	5.091	ng		97
34) Hexachlorobutadiene	8.263	225	18296	5.096	ng		99
35) Caprolactam	8.551	113	6533	4.714	ng		98
36) 4-Chloro-3-methylphenol	8.698	107	26136	4.989	ng		100
37) 2-Methylnaphthalene	8.839	142	56964	5.121	ng		99
38) 1-Methylnaphthalene	8.939	142	57978	5.270	ng		100
40) 1,2,4,5-Tetrachloroben...	9.004	216	28167	5.059	ng		97
43) 2,4,6-Trichlorophenol	9.128	196	15756	4.622	ng		99
44) 2,4,5-Trichlorophenol	9.186	196	18698	4.990	ng		94
46) 1,1'-Biphenyl	9.298	154	75993	5.276	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140856.D
Acq On : 16 Dec 2024 12:39
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Dec 16 16:46:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

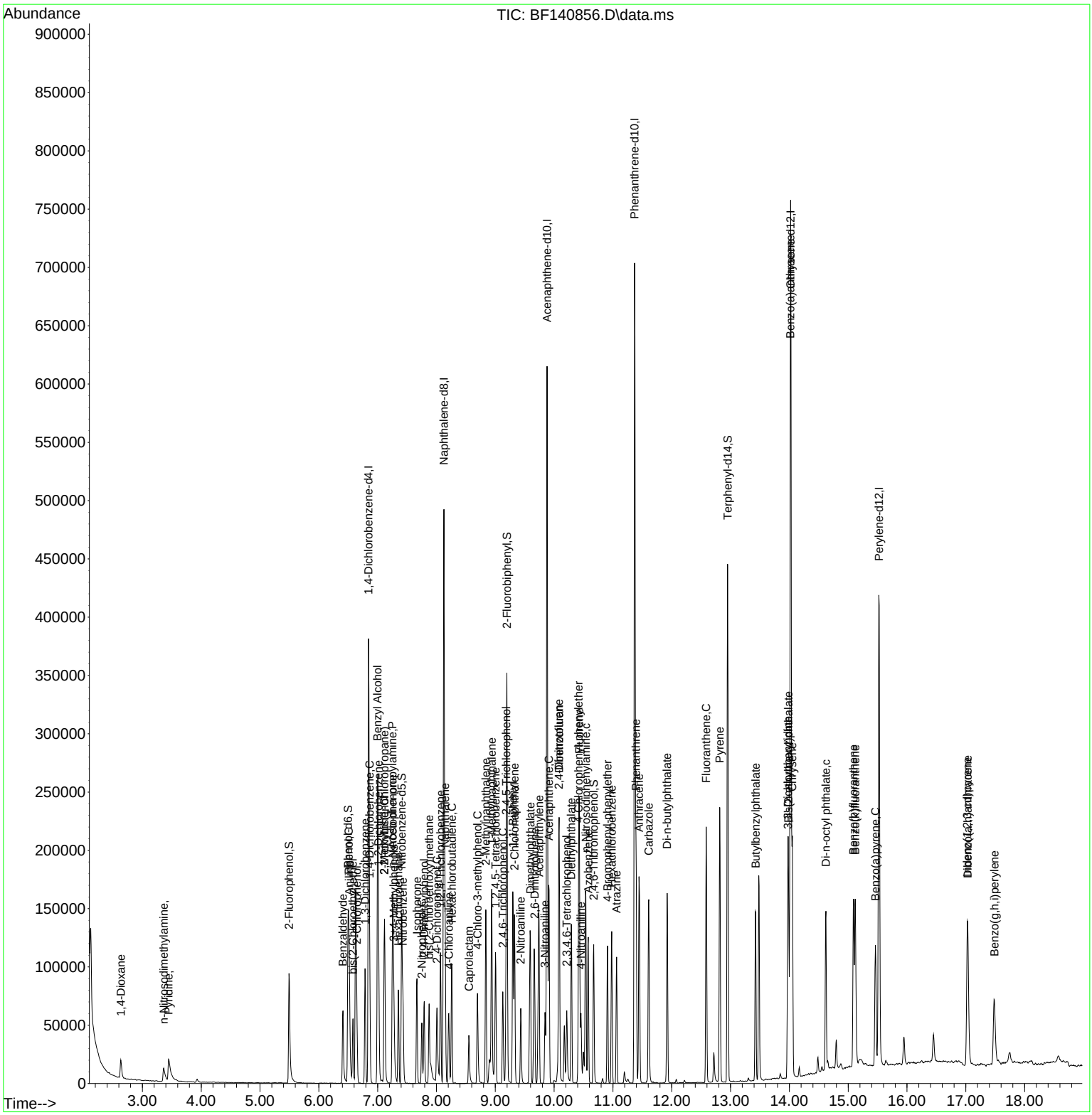
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	9.328	162	55976	5.080	ng		98
48) 2-Nitroaniline	9.433	65	15829	4.757	ng		98
49) Acenaphthylene	9.745	152	84871	5.241	ng		99
50) Dimethylphthalate	9.598	163	64810	5.075	ng		99
51) 2,6-Dinitrotoluene	9.669	165	14507	4.969	ng		99
52) Acenaphthene	9.910	154	55626	5.378	ng		98
53) 3-Nitroaniline	9.845	138	14583	5.034	ng		95
55) Dibenzofuran	10.086	168	86963	5.426	ng		97
57) 2,4-Dinitrotoluene	10.081	165	19701	5.129	ng	#	91
58) Fluorene	10.428	166	71243	5.388	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	13434	4.400	ng		95
60) Diethylphthalate	10.292	149	70725	5.341	ng		100
61) 4-Chlorophenyl-phenyle...	10.416	204	35304	5.315	ng		99
62) 4-Nitroaniline	10.457	138	14883	4.916	ng		99
63) Azobenzene	10.580	77	67111	5.391	ng		98
66) n-Nitrosodiphenylamine	10.539	169	60581	5.196	ng		98
67) 4-Bromophenyl-phenylether	10.910	248	21332	5.028	ng		98
68) Hexachlorobenzene	10.980	284	24367	5.066	ng		97
69) Atrazine	11.063	200	18943	5.817	ng		98
71) Phenanthrene	11.392	178	106671	5.470	ng		99
72) Anthracene	11.445	178	103428	5.385	ng		100
73) Carbazole	11.610	167	102961	5.473	ng		99
74) Di-n-butylphthalate	11.922	149	118050	5.347	ng		99
75) Fluoranthene	12.586	202	129330	5.758	ng		99
78) Pyrene	12.816	202	143947	5.352	ng		99
80) Butylbenzylphthalate	13.427	149	49136	4.965	ng		99
81) Benzo(a)anthracene	14.016	228	112964	5.270	ng		99
82) 3,3'-Dichlorobenzidine	13.974	252	32405	5.010	ng		98
83) Chrysene	14.051	228	102933	5.280	ng		99
84) Bis(2-ethylhexyl)phtha...	13.986	149	60799	4.764	ng		99
85) Di-n-octyl phthalate	14.621	149	95835	4.964	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	68314	4.526	ng		99
88) Benzo(b)fluoranthene	15.092	252	87940	5.238	ng		100
89) Benzo(k)fluoranthene	15.121	252	79696	5.534	ng		99
90) Benzo(a)pyrene	15.463	252	66476	5.057	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	55222	4.416	ng		98
92) Benzo(g,h,i)perylene	17.486	276	58125	4.567	ng		100

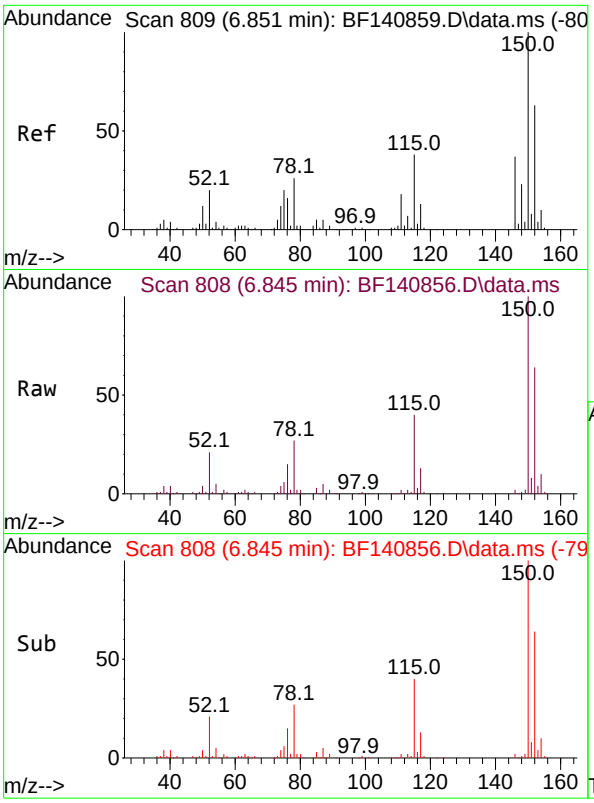
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140856.D
Acq On : 16 Dec 2024 12:39
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Dec 16 16:46:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



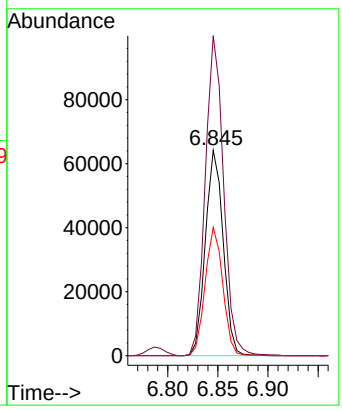


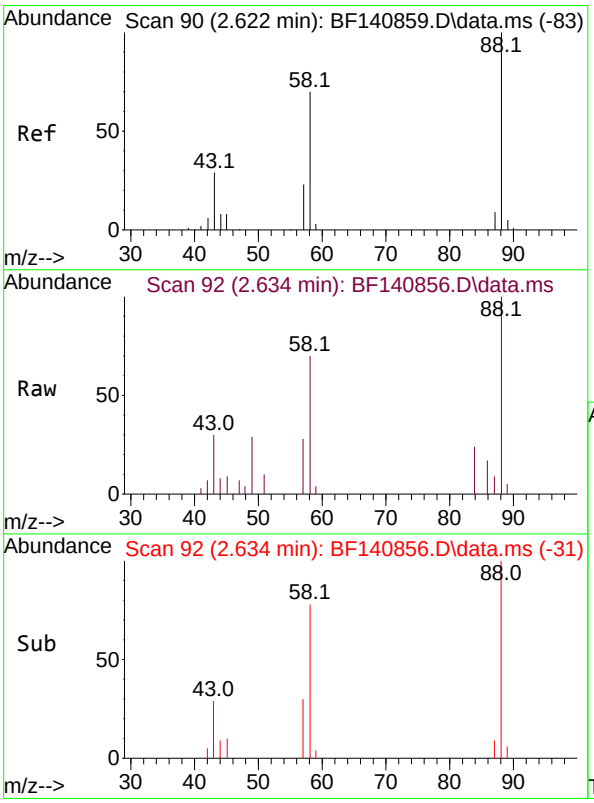
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 79655

Ion	Ratio	Lower	Upper
152	100		
150	155.8	127.9	191.9
115	62.4	48.0	72.0

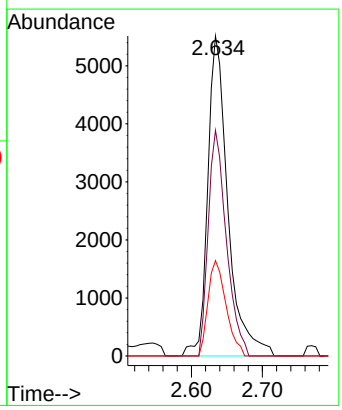


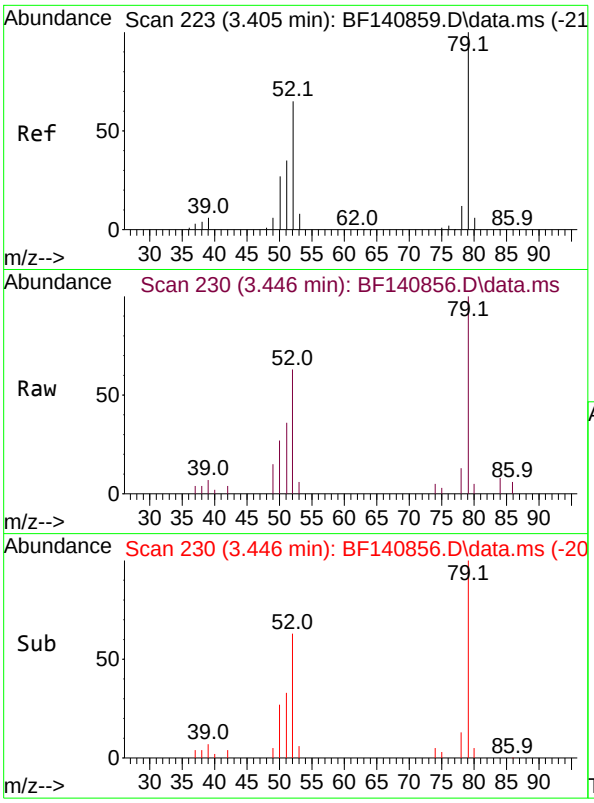


#2
1,4-Dioxane
Concen: 5.225 ng
RT: 2.634 min Scan# 92
Delta R.T. 0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 88 Resp: 10891

Ion	Ratio	Lower	Upper
88	100		
58	63.3	55.8	83.8
43	26.6	22.7	34.1



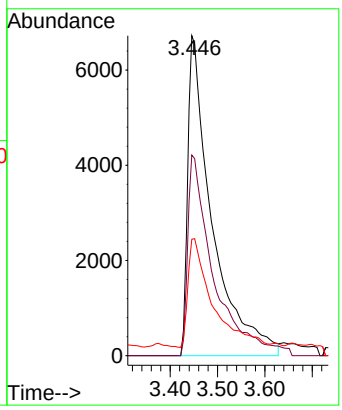


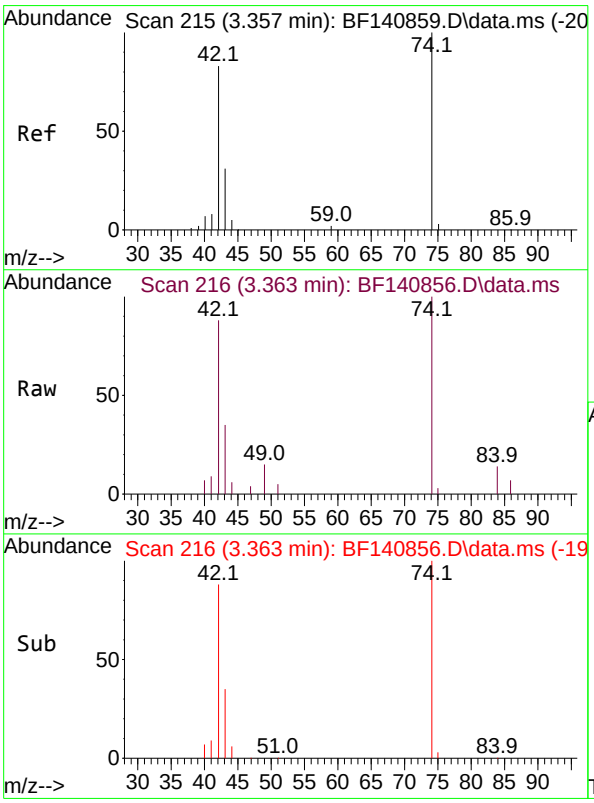
#3
Pyridine
Concen: 4.963 ng
RT: 3.446 min Scan# 2
Delta R.T. 0.041 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 23956

Ion	Ratio	Lower	Upper
79	100		
52	62.7	51.7	77.5
51	36.4	28.2	42.4

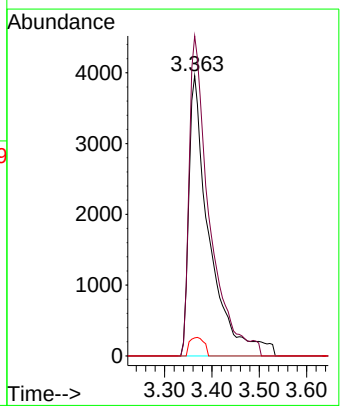


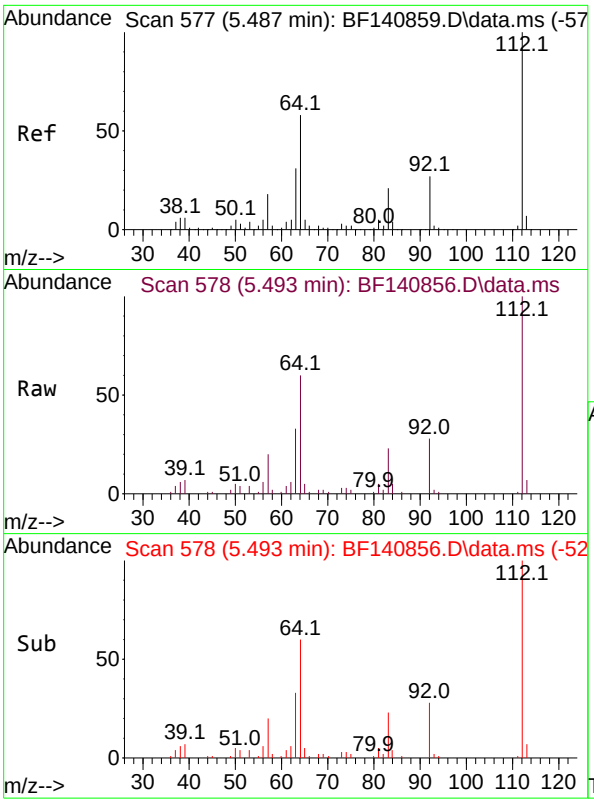


#4
n-Nitrosodimethylamine
Concen: 4.895 ng
RT: 3.363 min Scan# 216
Delta R.T. 0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 42 Resp: 11912

Ion	Ratio	Lower	Upper
42	100		
74	114.2	96.9	145.3
44	6.5	4.4	6.6



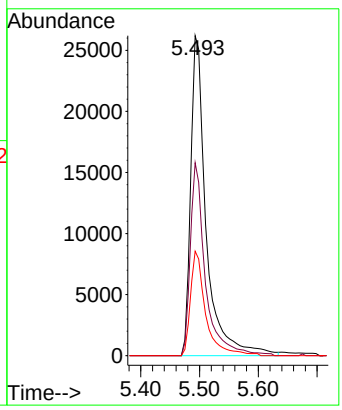


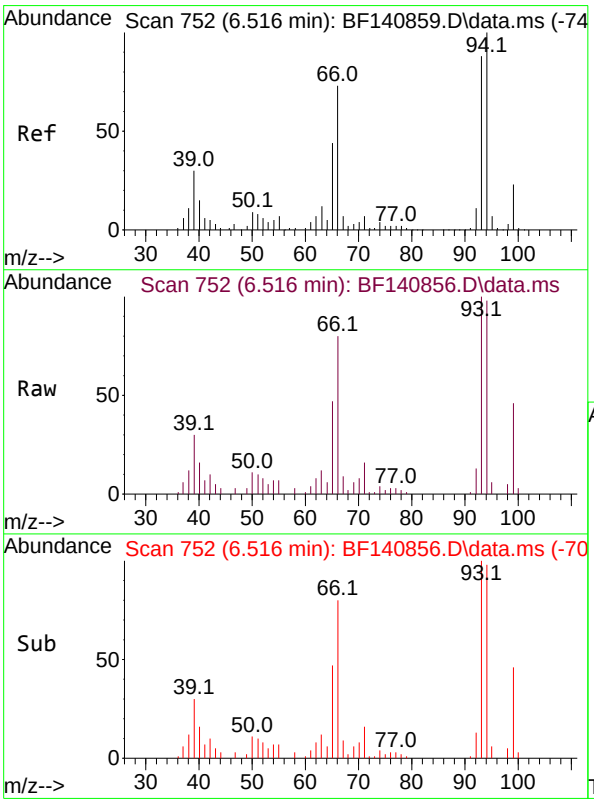
#5
2-Fluorophenol
Concen: 9.965 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 48219

Ion	Ratio	Lower	Upper
112	100		
64	60.3	46.1	69.1
63	32.6	24.9	37.3

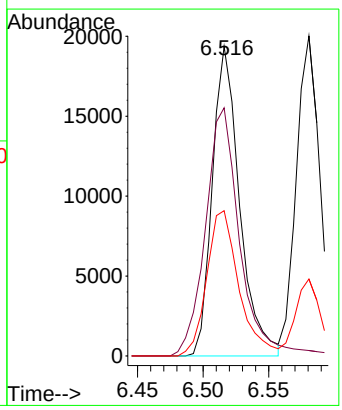


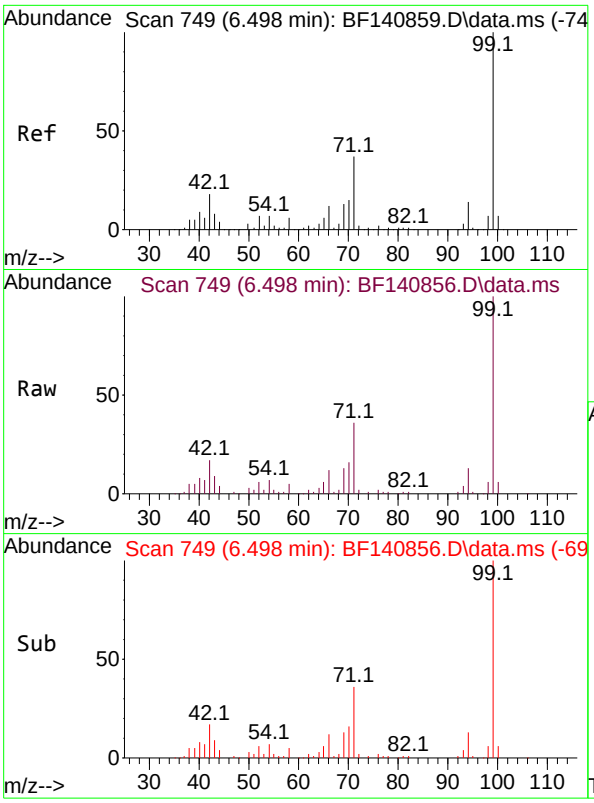


#6
Aniline
Concen: 5.116 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 93 Resp: 28034

Ion	Ratio	Lower	Upper
93	100		
66	80.1	67.0	100.4
65	46.9	40.4	60.6



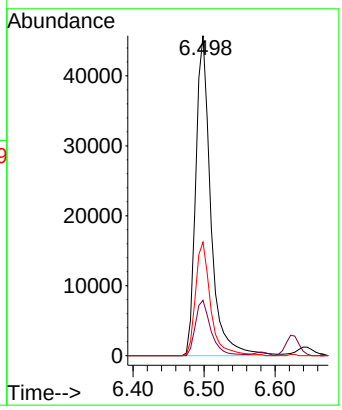


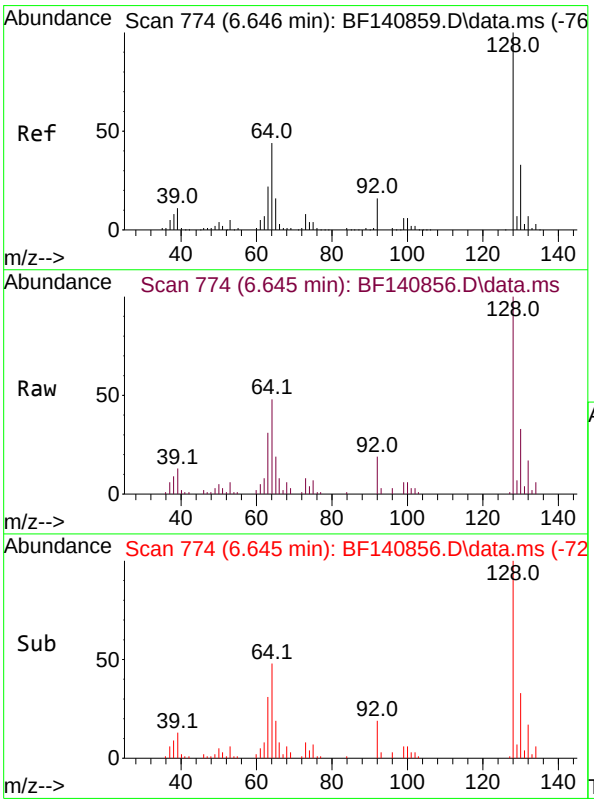
#7
Phenol-d6
Concen: 10.516 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 67396

Ion	Ratio	Lower	Upper
99	100		
42	17.3	14.3	21.5
71	35.5	29.9	44.9

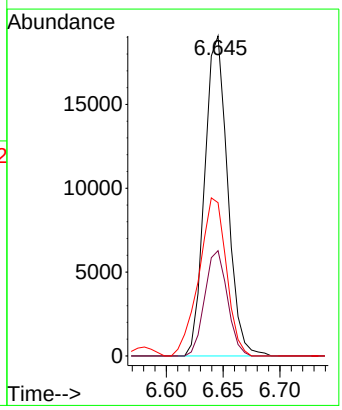


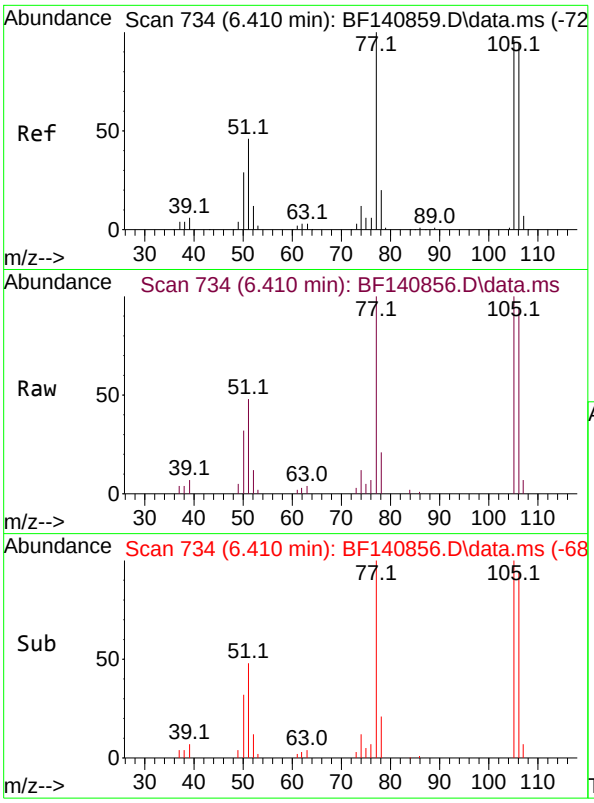


#8
2-Chlorophenol
Concen: 5.070 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:128 Resp: 26751

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.9	52.9
64	47.9	24.3	64.3



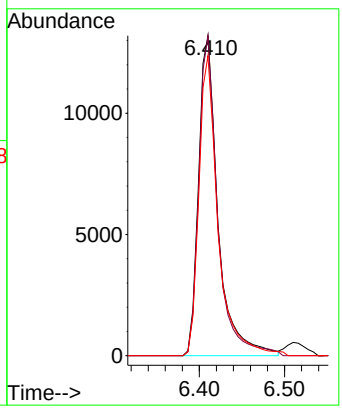


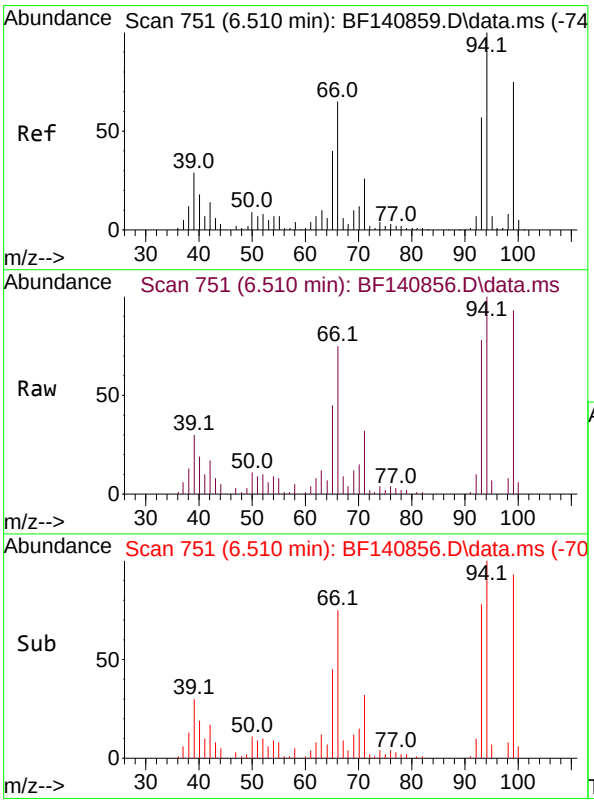
#9
Benzaldehyde
Concen: 5.876 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 20868

Ion	Ratio	Lower	Upper
77	100		
105	99.9	75.8	115.8
106	93.8	74.1	114.1

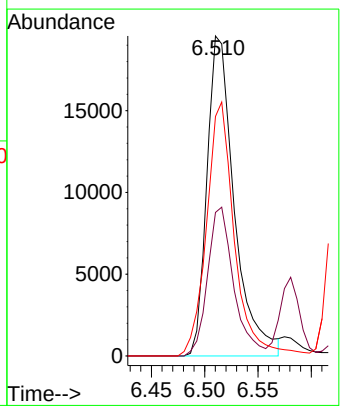


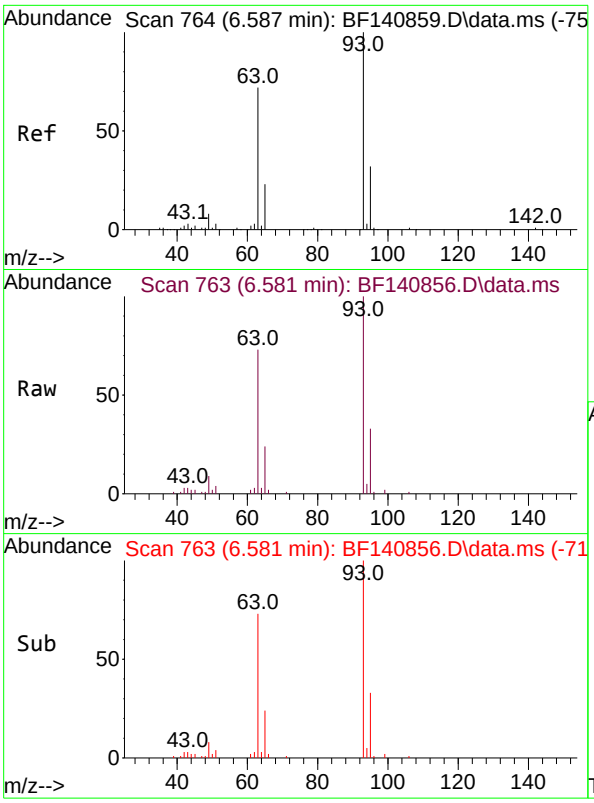


#10
Phenol
Concen: 5.264 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 94 Resp: 34967

Ion	Ratio	Lower	Upper
94	100		
65	44.9	19.9	59.9
66	74.9	45.6	85.6



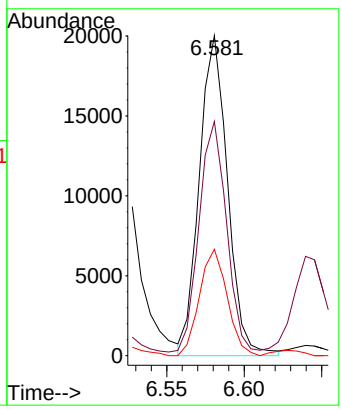


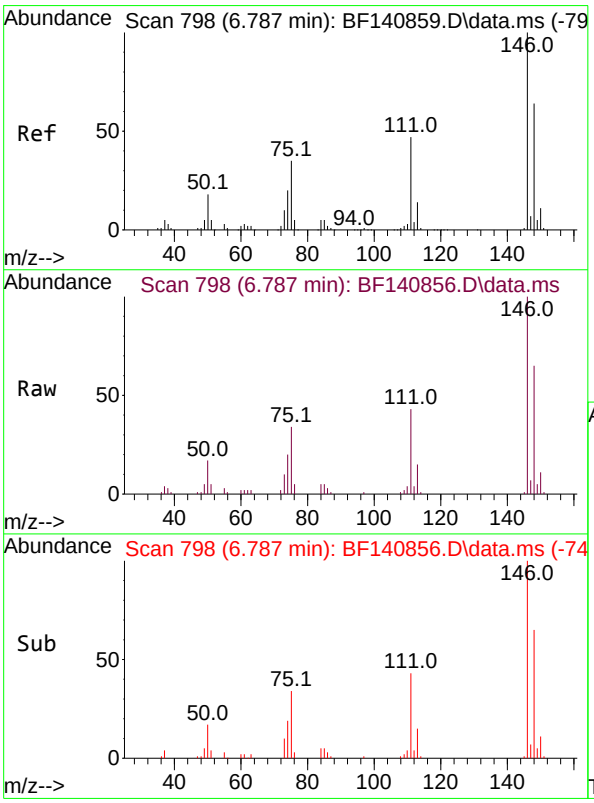
#11
bis(2-Chloroethyl)ether
Concen: 5.133 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 25426

Ion	Ratio	Lower	Upper
93	100		
63	73.2	51.0	91.0
95	33.3	12.0	52.0

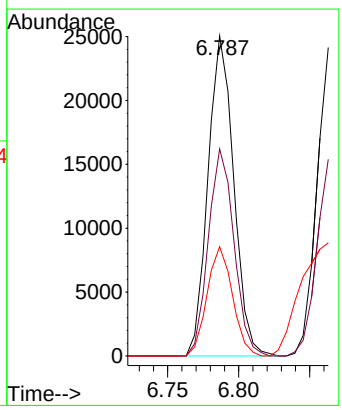


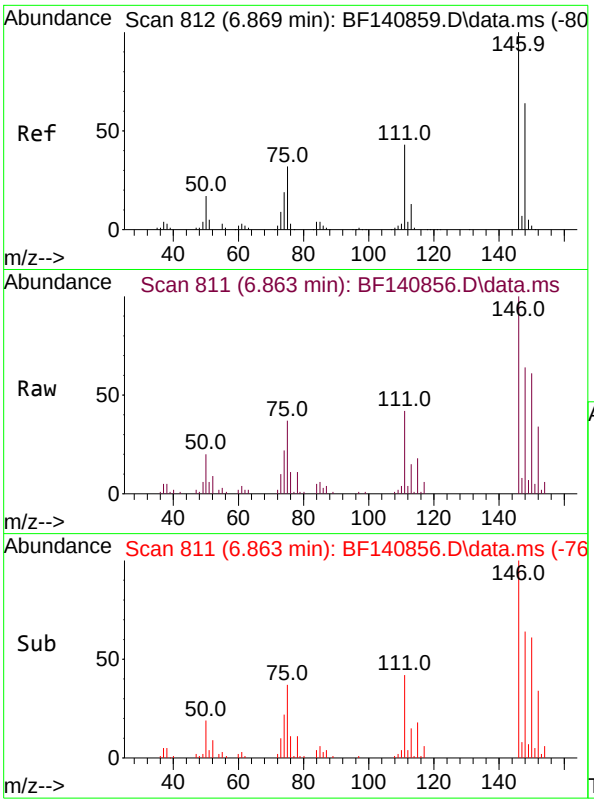


#12
1,3-Dichlorobenzene
Concen: 5.246 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:146 Resp: 31542

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.0	76.6
75	34.2	28.1	42.1



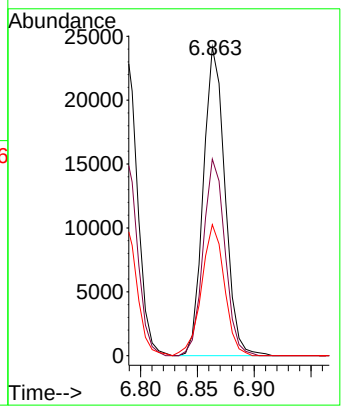


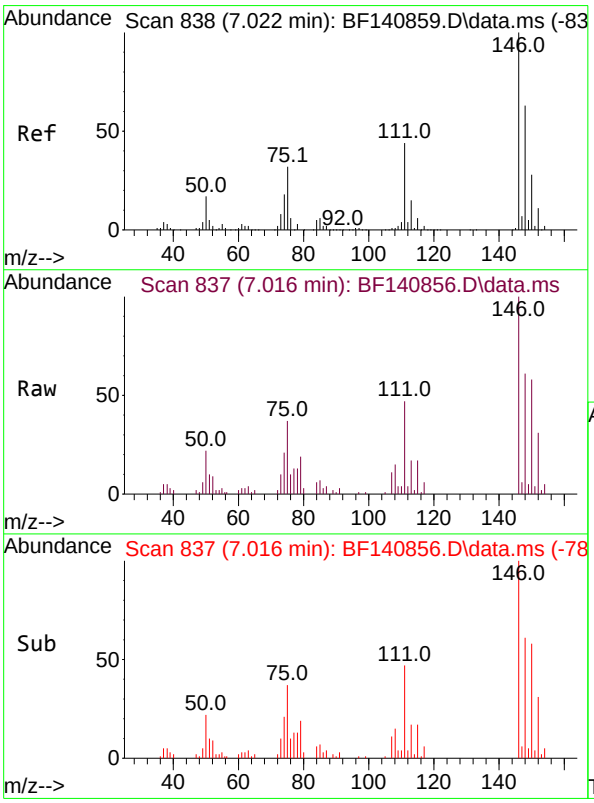
#13
1,4-Dichlorobenzene
Concen: 5.245 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 32009

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.3	76.9
111	42.5	34.4	51.6

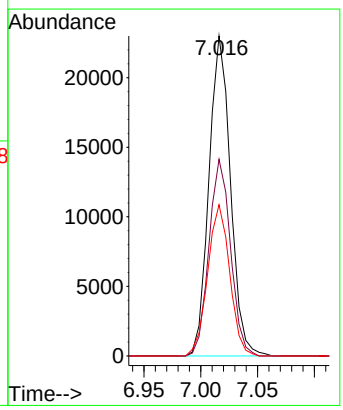


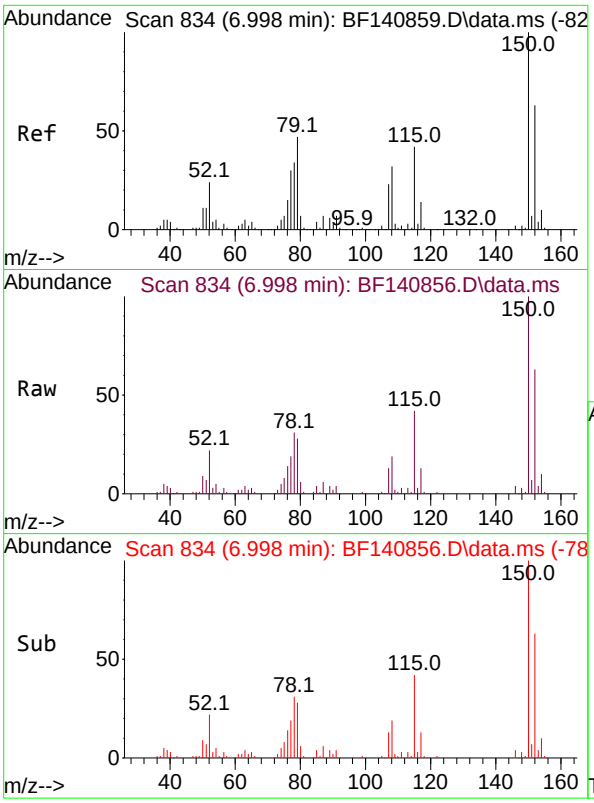


#14
1,2-Dichlorobenzene
Concen: 5.261 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:146 Resp: 30294

Ion	Ratio	Lower	Upper
146	100		
148	61.5	50.0	75.0
111	47.2	35.6	53.4



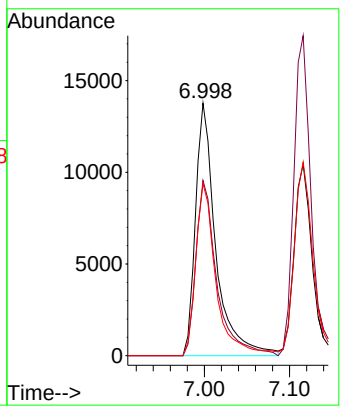


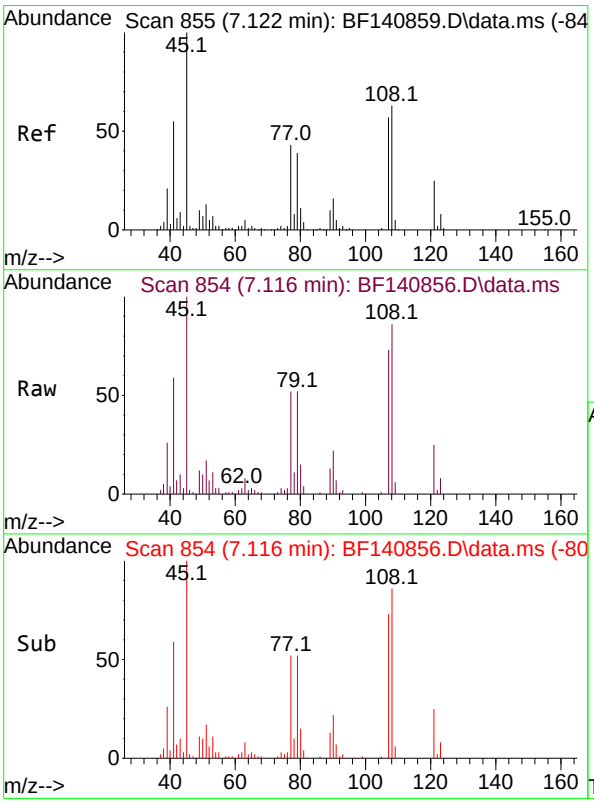
#15
Benzyl Alcohol
Concen: 4.982 ng
RT: 6.998 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 22831

Ion	Ratio	Lower	Upper
79	100		
108	69.4	55.1	82.7
77	68.2	50.6	76.0

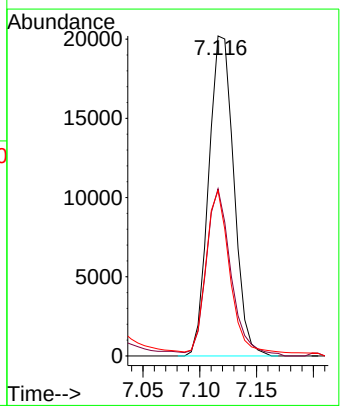


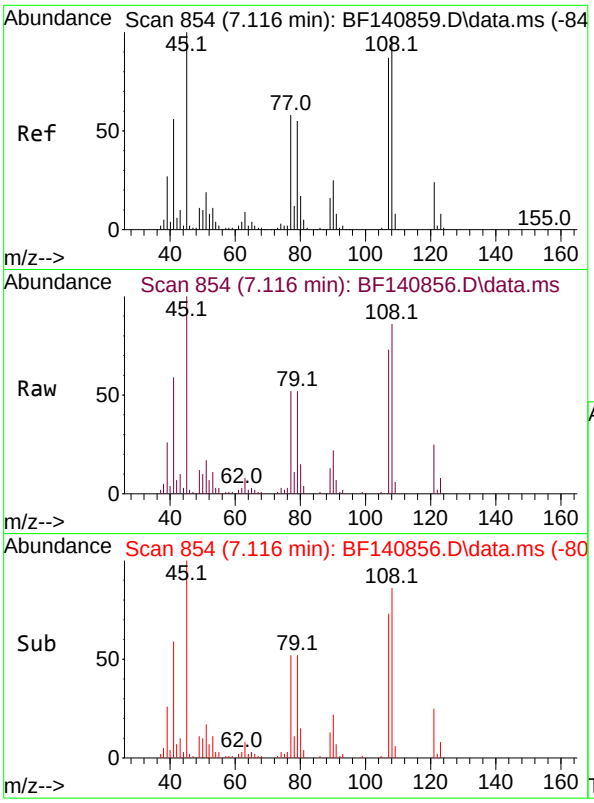


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.333 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 45 Resp: 31121

Ion	Ratio	Lower	Upper
45	100		
77	52.3	23.3	63.3
79	51.7	20.0	60.0



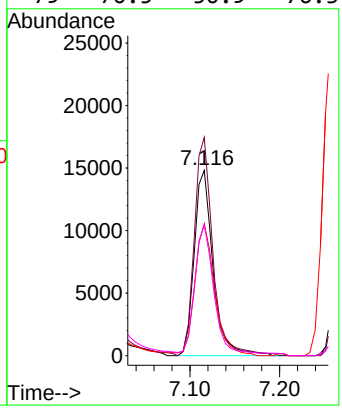


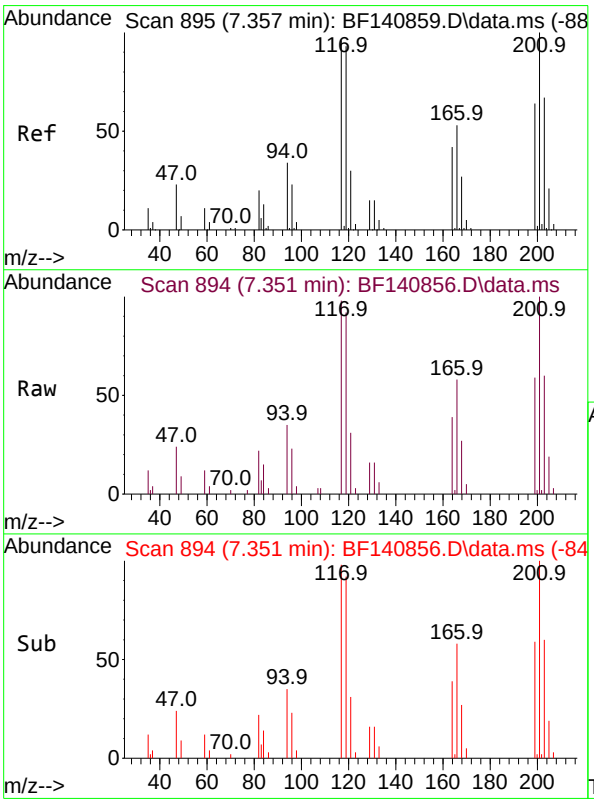
#17
2-Methylphenol
Concen: 5.112 ng
RT: 7.116 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 21534

Ion	Ratio	Lower	Upper
107	100		
108	117.8	90.2	135.4
77	71.3	53.8	80.6
79	70.5	50.9	76.3

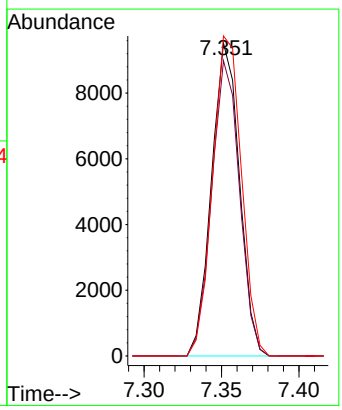


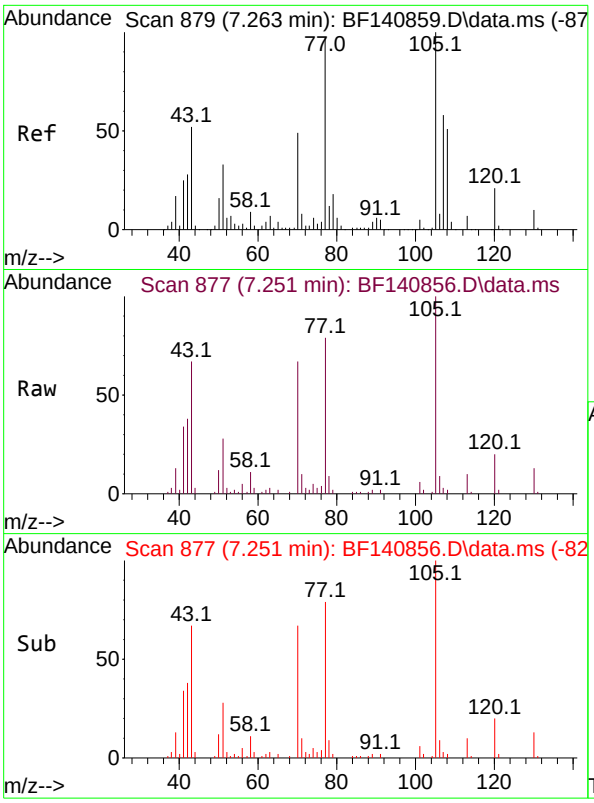


#18
Hexachloroethane
Concen: 5.259 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:117 Resp: 11948

Ion	Ratio	Lower	Upper
117	100		
119	94.4	77.4	116.0
201	102.3	83.4	125.0



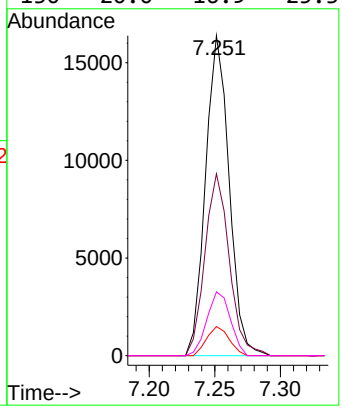


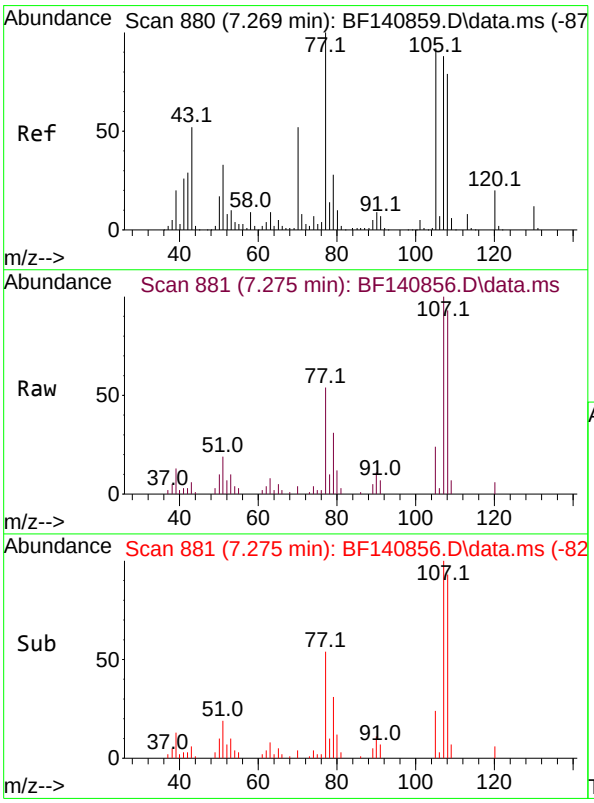
#19
n-Nitroso-di-n-propylamine
Concen: 5.337 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 20518

Ion	Ratio	Lower	Upper
70	100		
42	56.9	45.3	67.9
101	9.1	8.0	12.0
130	20.0	16.9	25.3

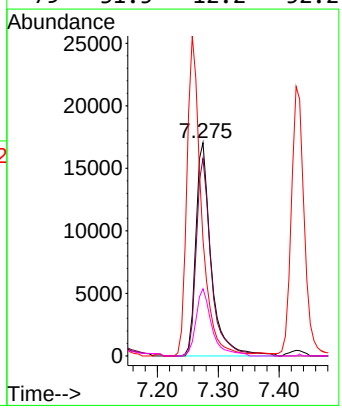


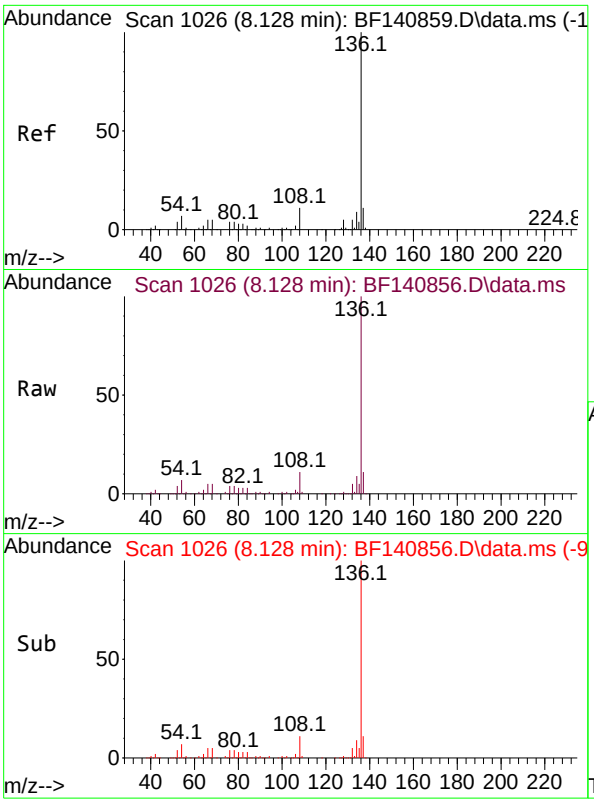


#20
3+4-Methylphenols
Concen: 5.356 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:107 Resp: 29921

Ion	Ratio	Lower	Upper
107	100		
108	92.6	70.1	110.1
77	54.4	94.4	134.4#
79	31.5	12.2	52.2



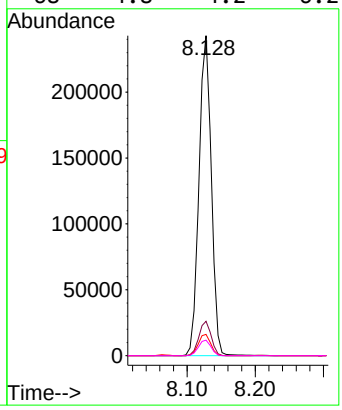


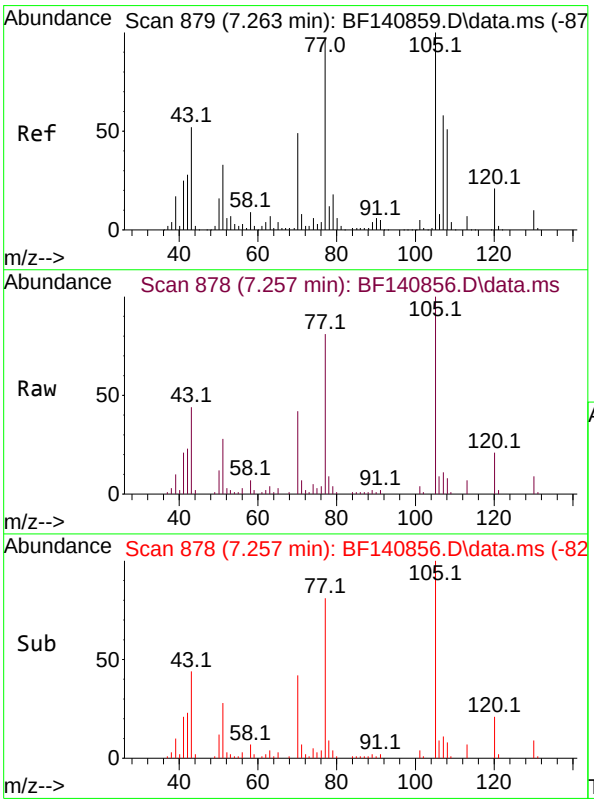
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 306130

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.7	5.6	8.4
68	4.8	4.2	6.2

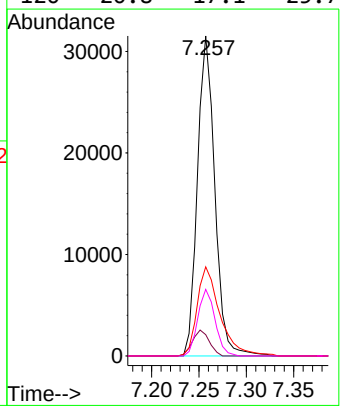


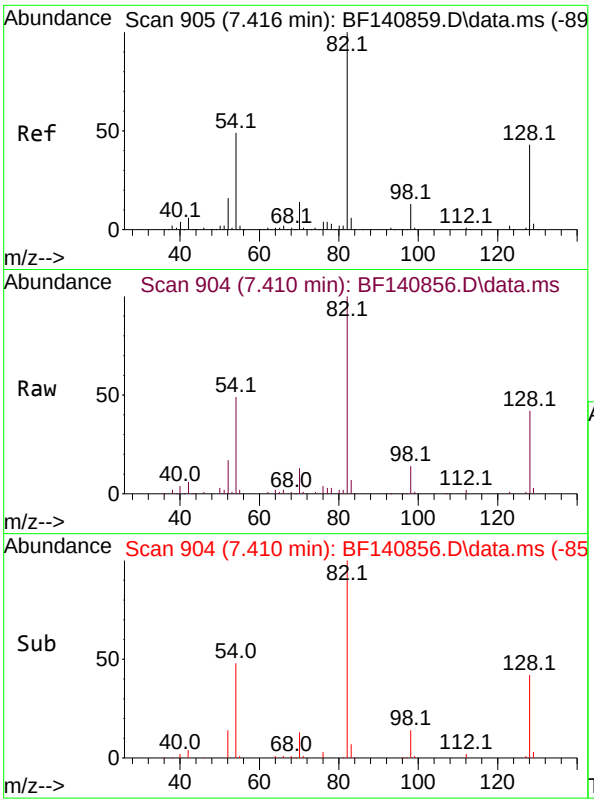


#22
Acetophenone
Concen: 5.252 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:105 Resp: 40223

Ion	Ratio	Lower	Upper
105	100		
71	6.6	6.2	9.4
51	27.9	26.3	39.5
120	20.8	17.1	25.7



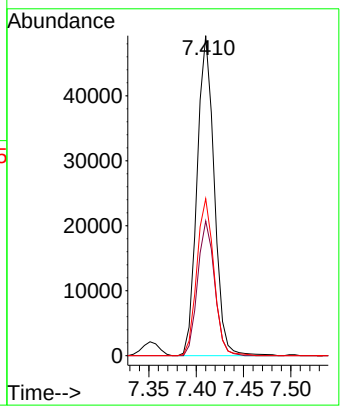


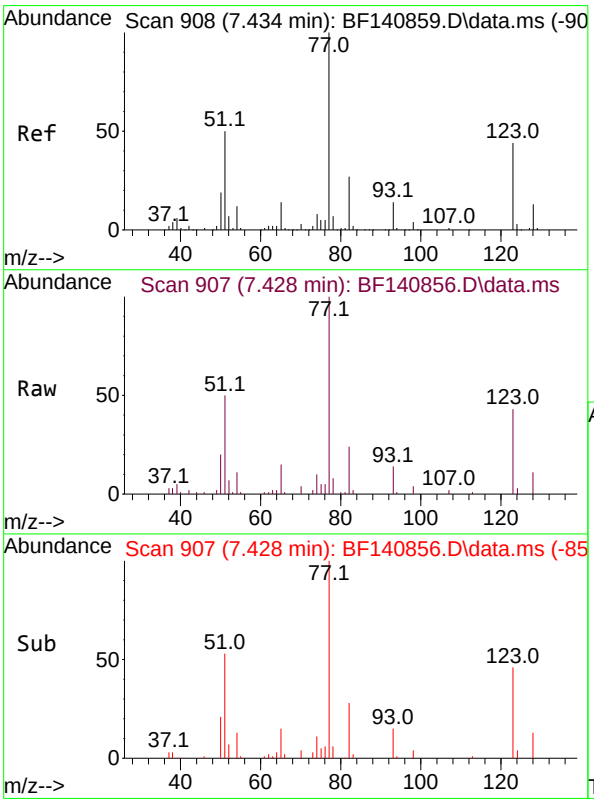
#23
Nitrobenzene-d5
Concen: 10.150 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 62104

Ion	Ratio	Lower	Upper
82	100		
128	42.1	34.4	51.6
54	49.1	38.8	58.2

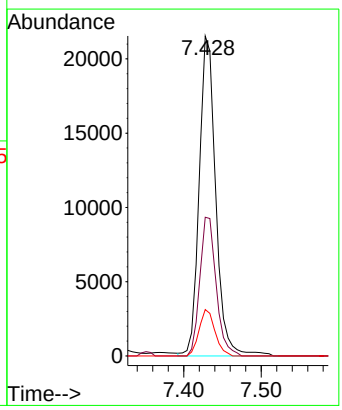


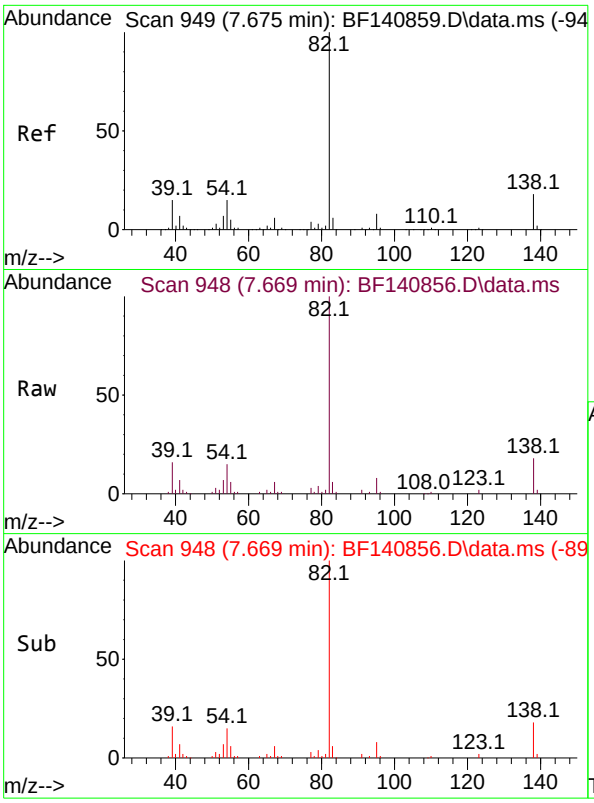


#24
Nitrobenzene
Concen: 5.099 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 77 Resp: 31964

Ion	Ratio	Lower	Upper
77	100		
123	43.3	35.0	52.4
65	14.5	11.4	17.0



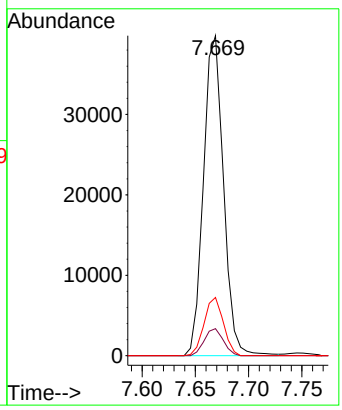


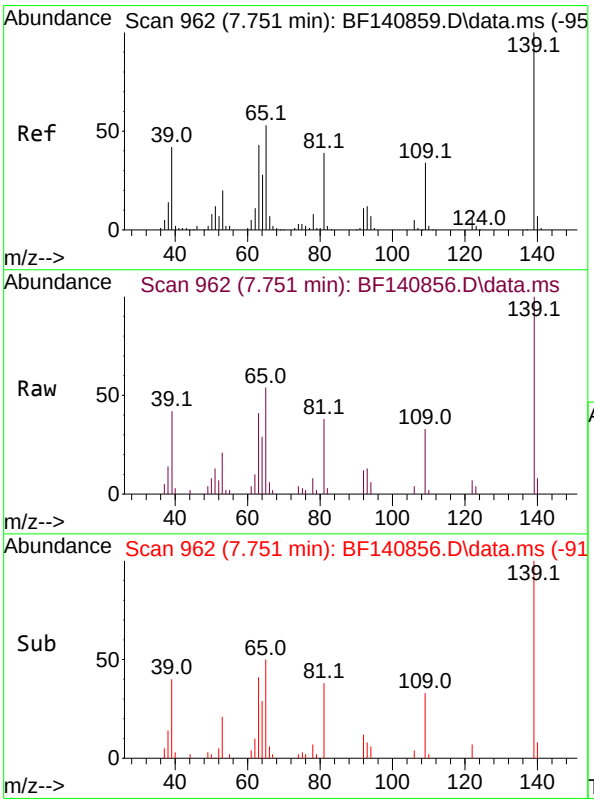
#25
Isophorone
Concen: 5.085 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 52133

Ion	Ratio	Lower	Upper
82	100		
95	8.4	6.3	9.5
138	18.2	14.1	21.1

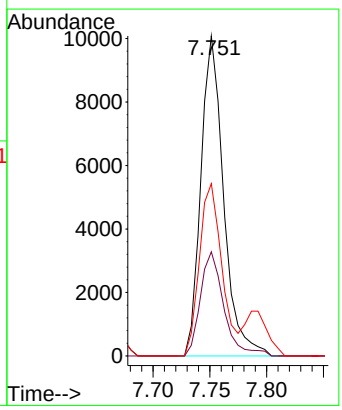


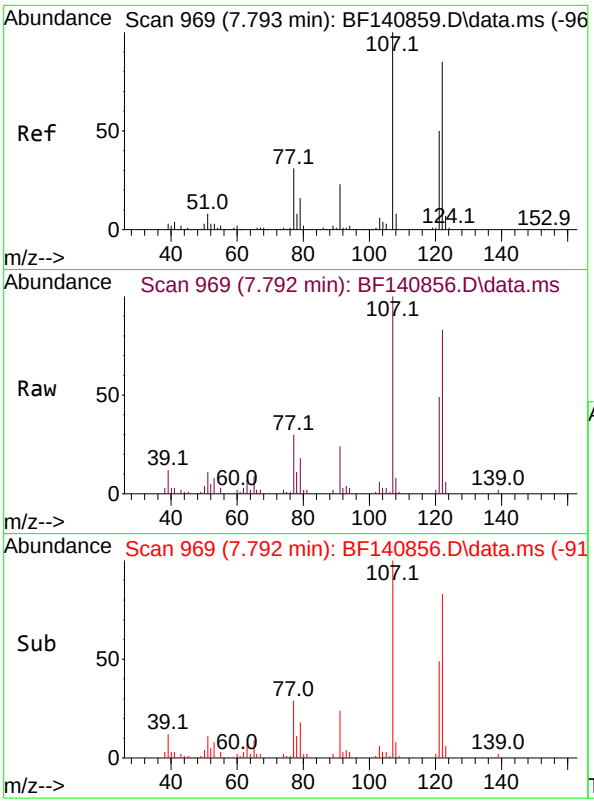


#26
2-Nitrophenol
Concen: 4.847 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:139 Resp: 13994

Ion	Ratio	Lower	Upper
139	100		
109	32.5	26.9	40.3
65	53.8	42.6	64.0



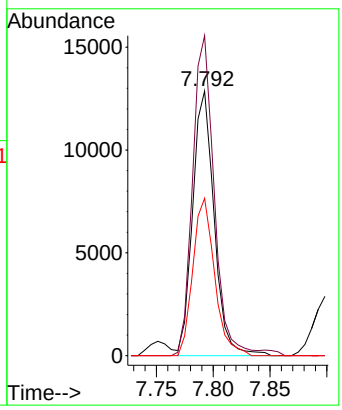


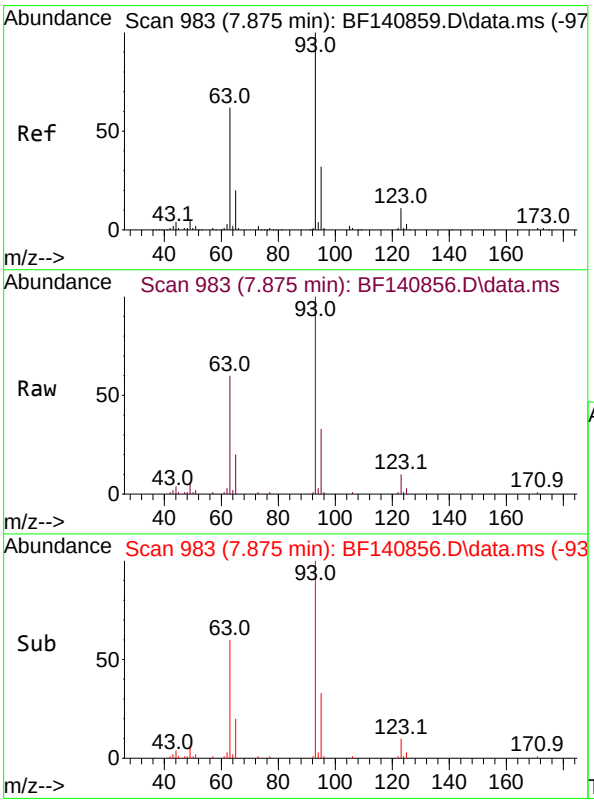
#27
2,4-Dimethylphenol
Concen: 5.017 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 16915

Ion	Ratio	Lower	Upper
122	100		
107	120.9	92.6	139.0
121	59.5	45.8	68.8

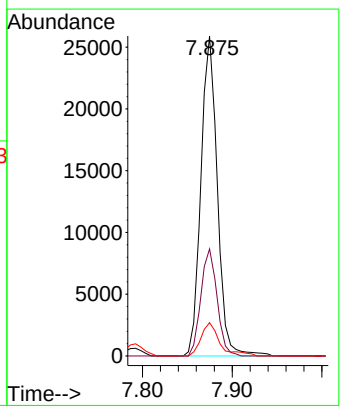


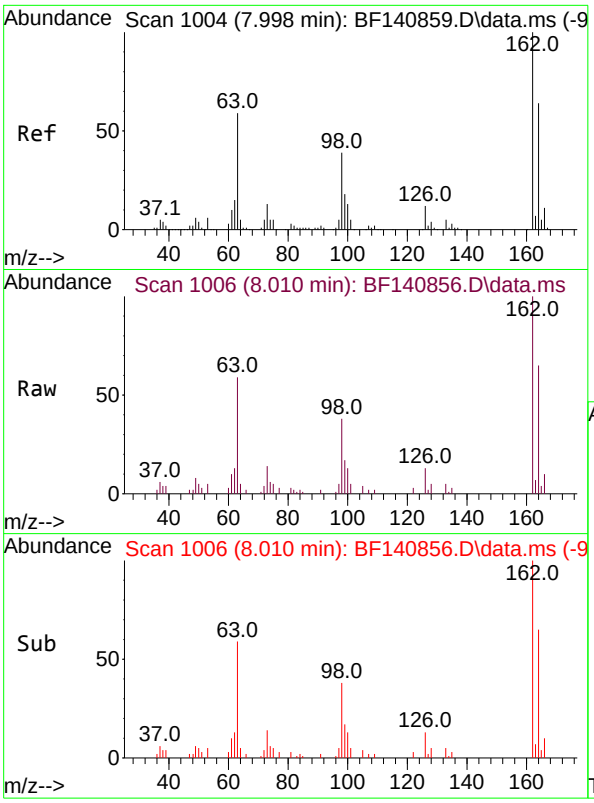


#28
bis(2-Chloroethoxy)methane
Concen: 5.147 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 93 Resp: 32959

Ion	Ratio	Lower	Upper
93	100		
95	33.4	25.3	37.9
123	10.4	8.6	13.0



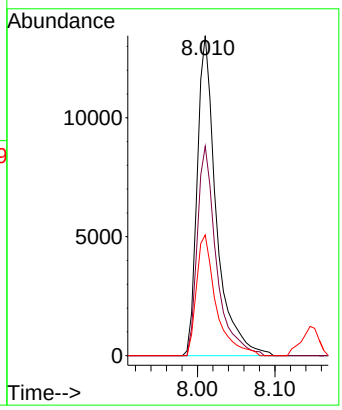


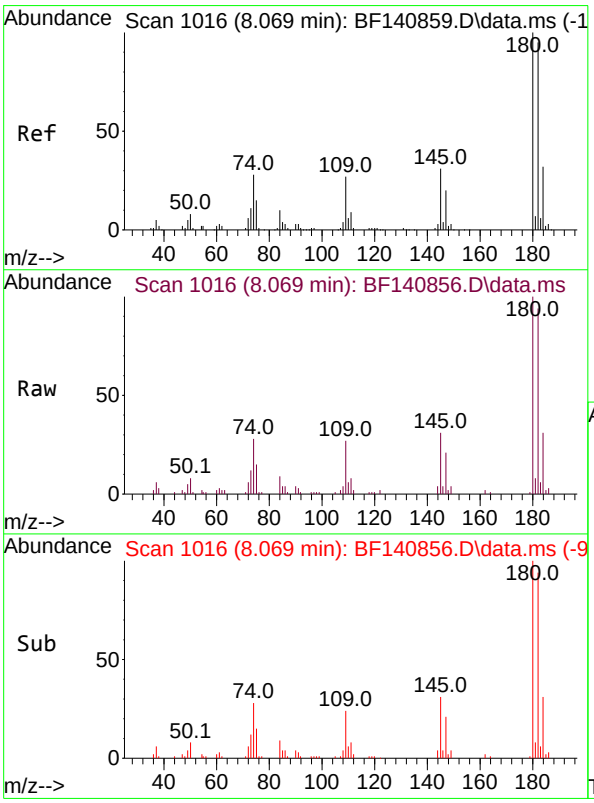
#29
2,4-Dichlorophenol
Concen: 4.937 ng
RT: 8.010 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 22982

Ion	Ratio	Lower	Upper
162	100		
164	65.4	43.7	83.7
98	37.8	18.6	58.6

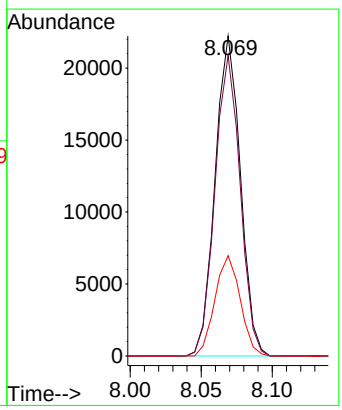


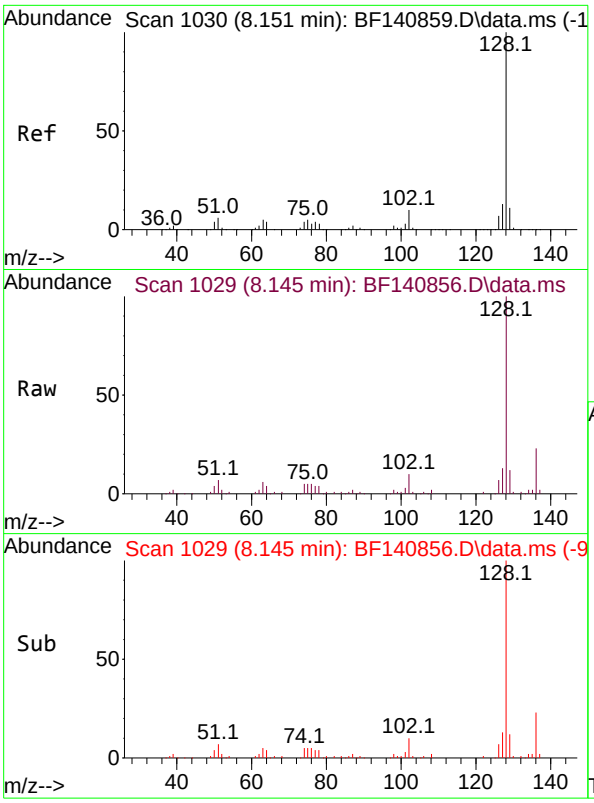


#30
1,2,4-Trichlorobenzene
Concen: 5.160 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:180 Resp: 27533

Ion	Ratio	Lower	Upper
180	100		
182	93.9	75.8	113.6
145	31.4	25.2	37.8



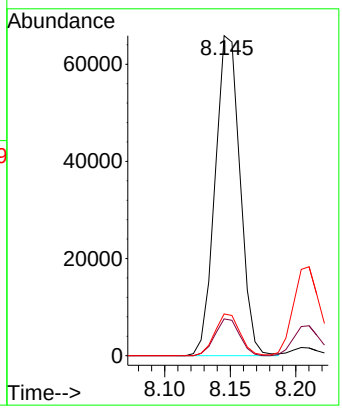


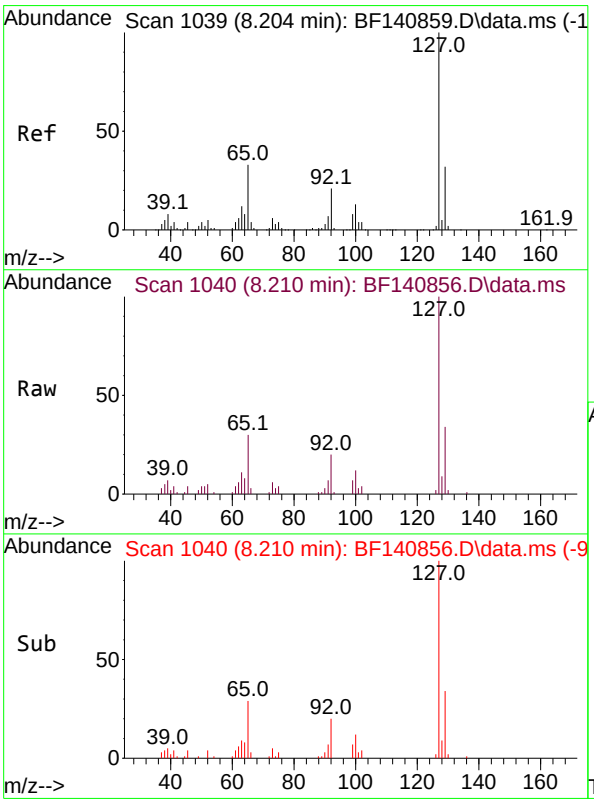
#31
Naphthalene
Concen: 5.179 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 87082

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.9	13.3
127	13.1	10.6	16.0

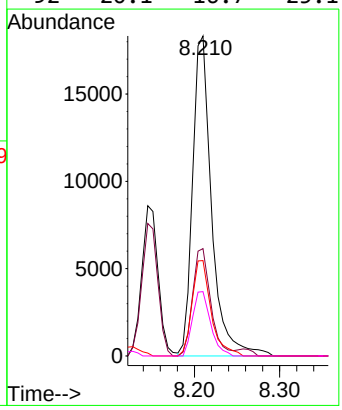


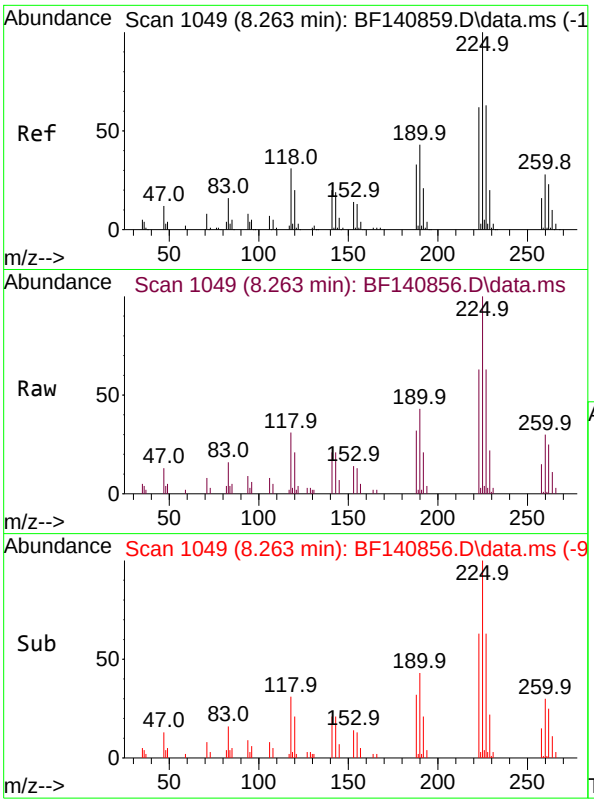


#33
4-Chloroaniline
Concen: 5.091 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:127 Resp: 28431

Ion	Ratio	Lower	Upper
127	100		
129	33.5	26.0	39.0
65	29.8	26.0	39.0
92	20.1	16.7	25.1



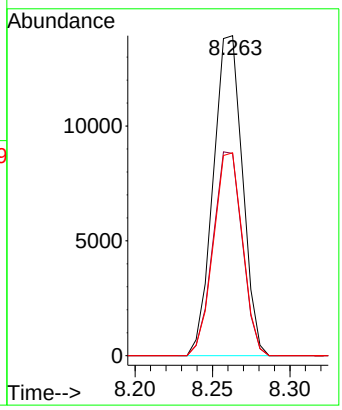


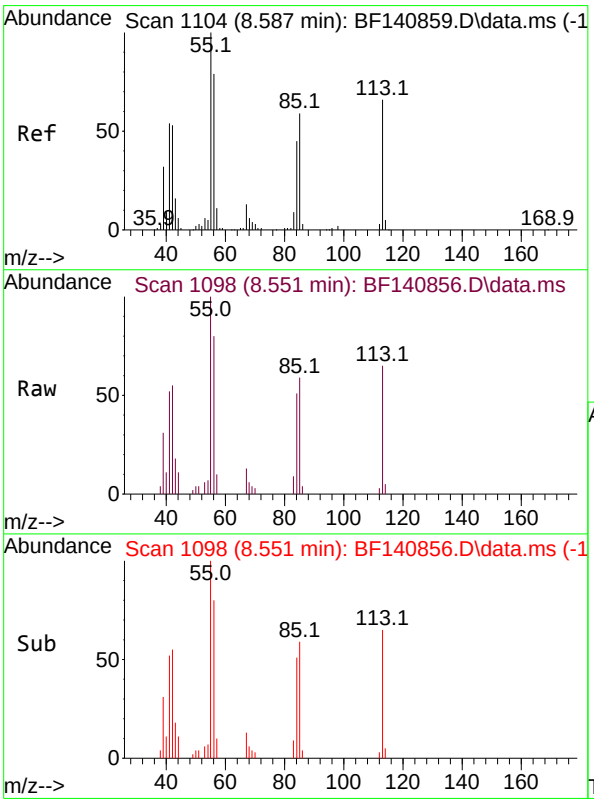
#34
Hexachlorobutadiene
Concen: 5.096 ng
RT: 8.263 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 18296

Ion	Ratio	Lower	Upper
225	100		
223	63.2	49.6	74.4
227	63.4	50.7	76.1

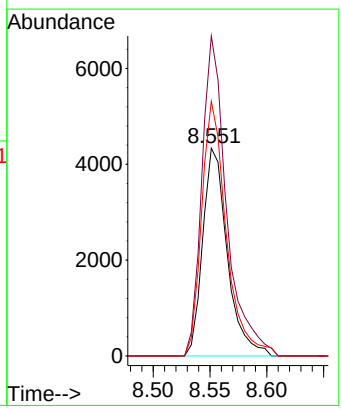


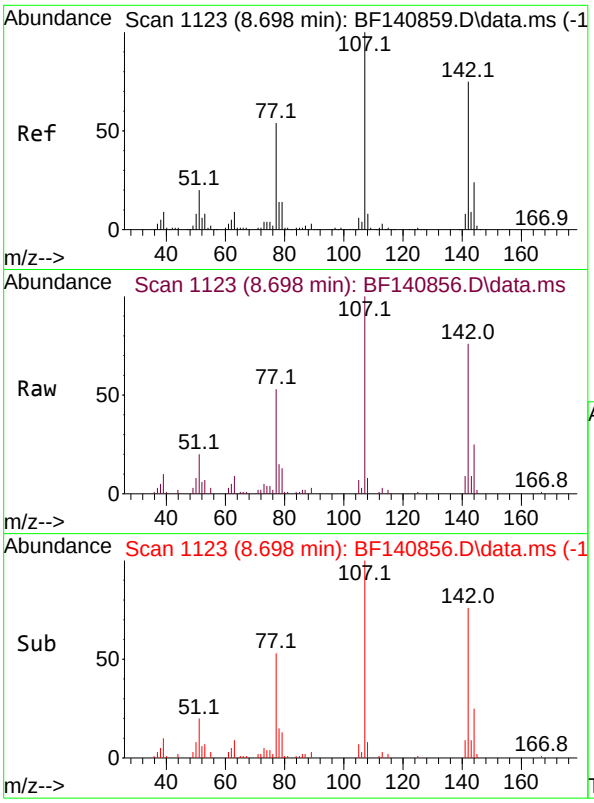


#35
Caprolactam
Concen: 4.714 ng
RT: 8.551 min Scan# 1098
Delta R.T. -0.035 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:113 Resp: 6533

Ion	Ratio	Lower	Upper
113	100		
55	153.9	132.3	172.3
56	122.5	100.3	140.3



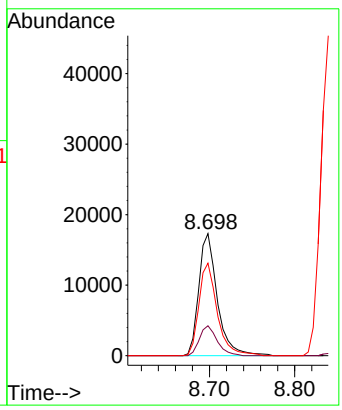


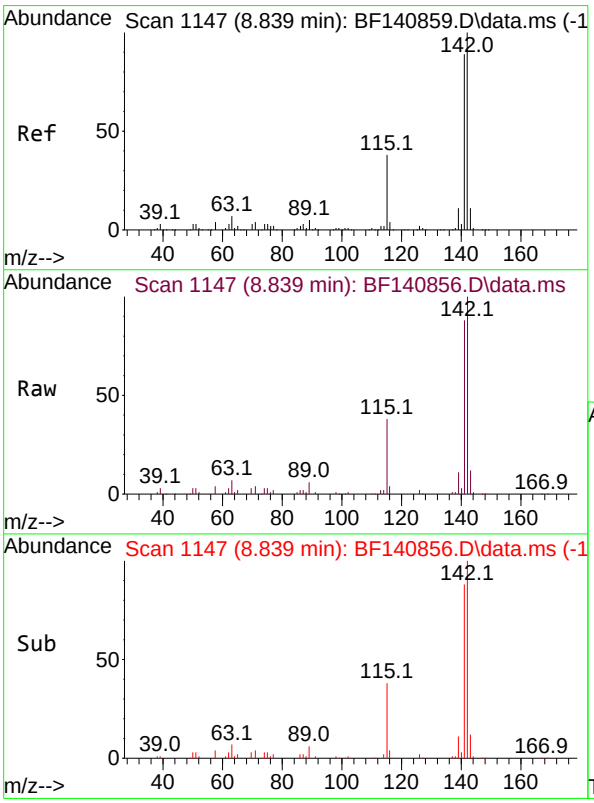
#36
4-Chloro-3-methylphenol
Concen: 4.989 ng
RT: 8.698 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 26136

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.4	29.2
142	75.8	60.3	90.5

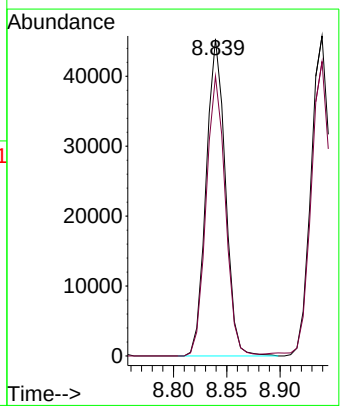


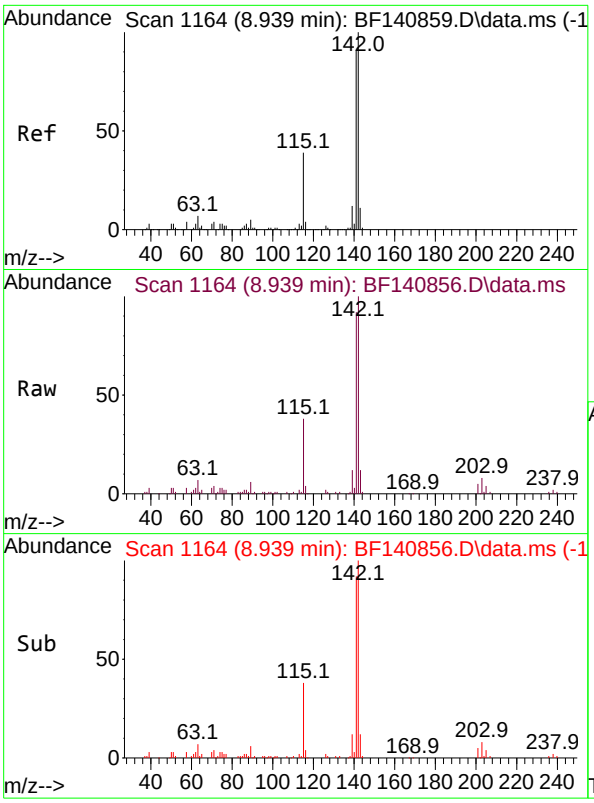


#37
2-Methylnaphthalene
Concen: 5.121 ng
RT: 8.839 min Scan# 1147
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:142 Resp: 56964

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.0	106.6



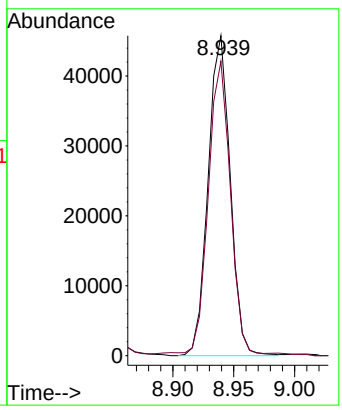


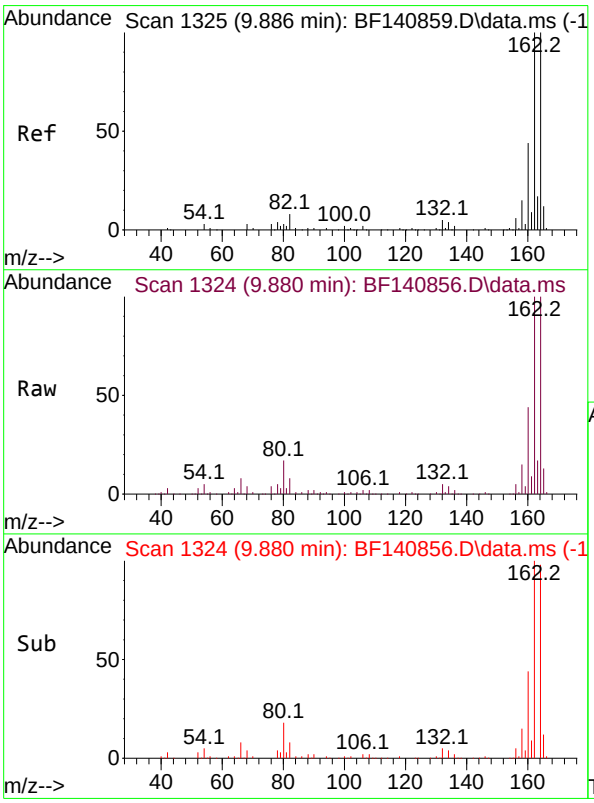
#38
1-Methylnaphthalene
Concen: 5.270 ng
RT: 8.939 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 57978

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.4	110.0

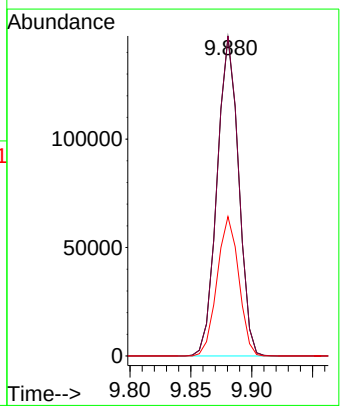


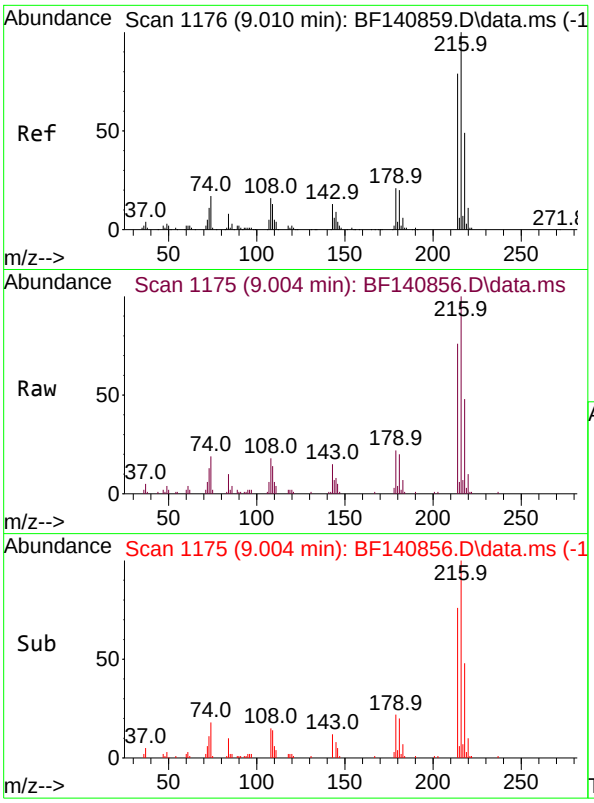


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:164 Resp: 181131

Ion	Ratio	Lower	Upper
164	100		
162	100.5	79.9	119.9
160	43.8	35.2	52.8



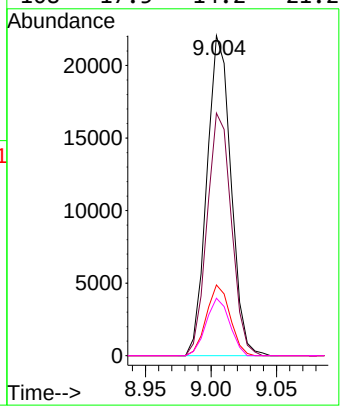


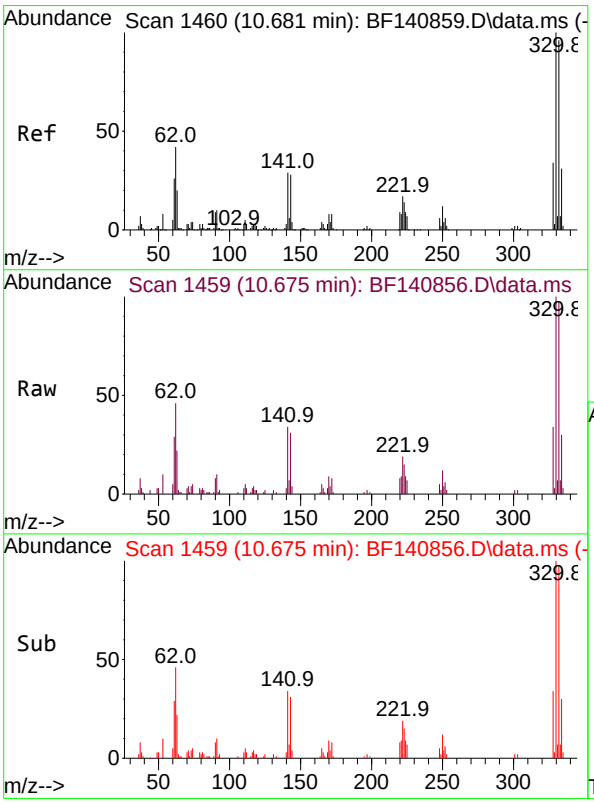
#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.059 ng
RT: 9.004 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:216 Resp: 28167

Ion	Ratio	Lower	Upper
216	100		
214	76.4	63.6	95.4
179	21.7	17.0	25.4
108	17.5	14.2	21.2

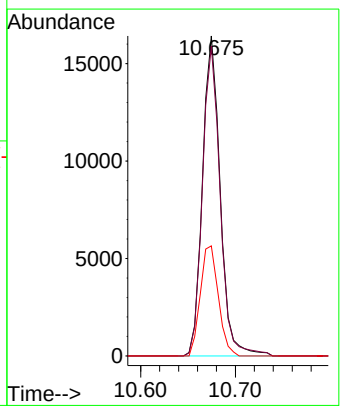


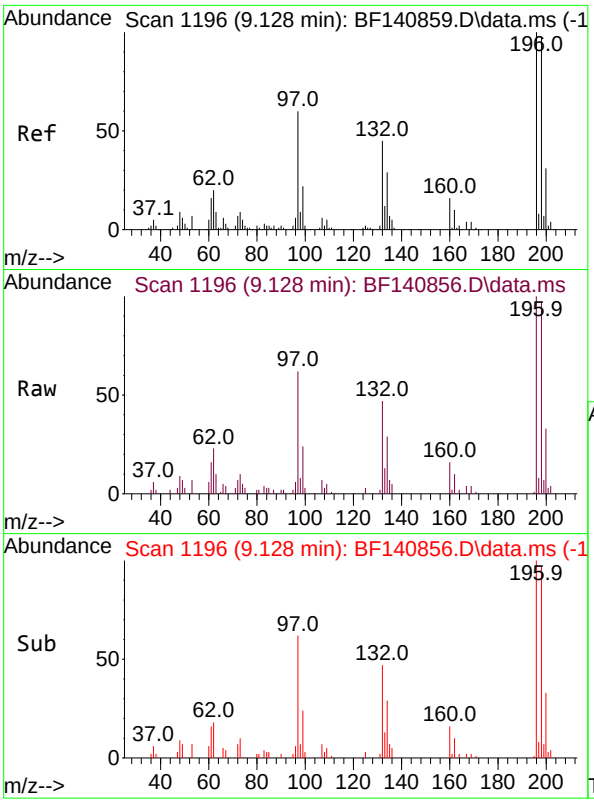


#42
2,4,6-Tribromophenol
Concen: 9.950 ng
RT: 10.675 min Scan# 1459
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:330 Resp: 21315

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.2	114.4
141	35.0	24.9	37.3



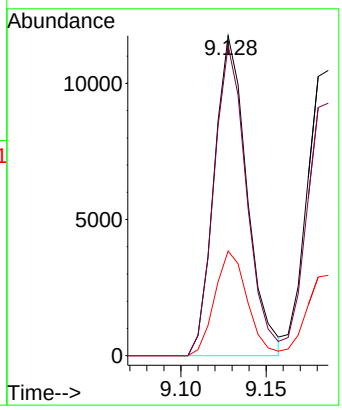


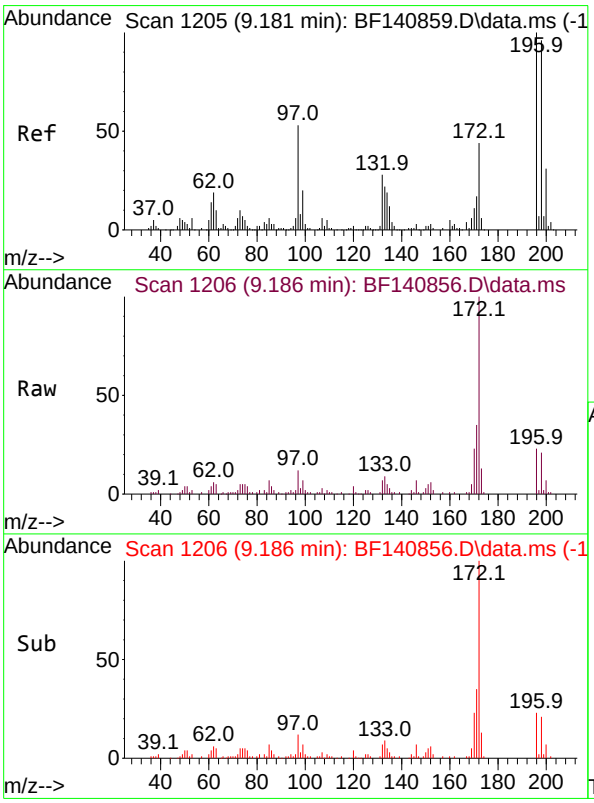
#43
2,4,6-Trichlorophenol
Concen: 4.622 ng
RT: 9.128 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 15756

Ion	Ratio	Lower	Upper
196	100		
198	97.0	77.4	116.0
200	32.7	24.5	36.7

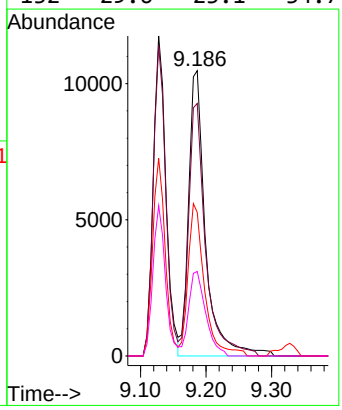


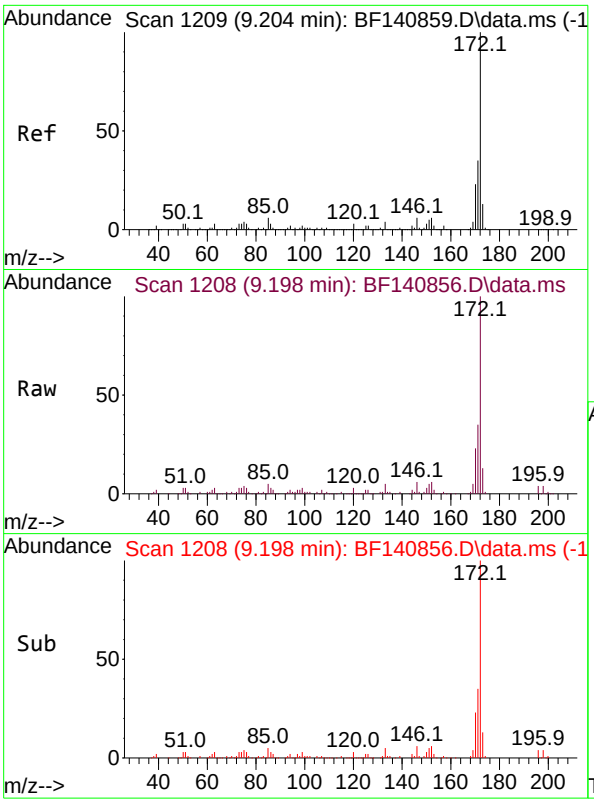


#44
2,4,5-Trichlorophenol
Concen: 4.990 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:196 Resp: 18698

Ion	Ratio	Lower	Upper
196	100		
198	88.5	77.2	115.8
97	50.3	42.2	63.4
132	29.6	23.1	34.7



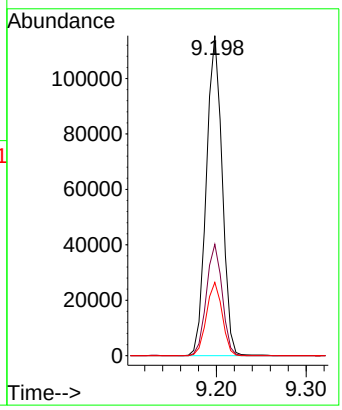


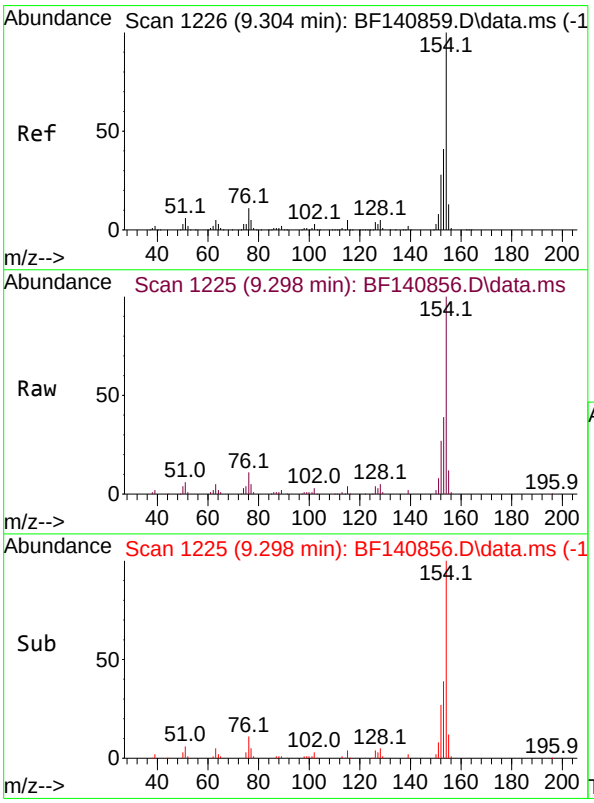
#45
2-Fluorobiphenyl
Concen: 10.726 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 141311

Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.4	42.6
170	22.9	18.6	28.0

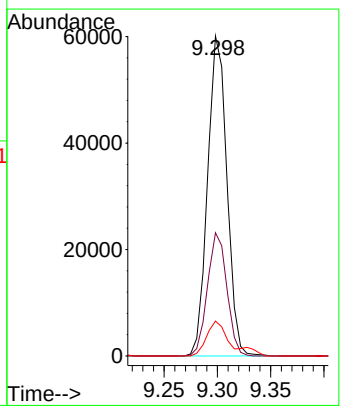


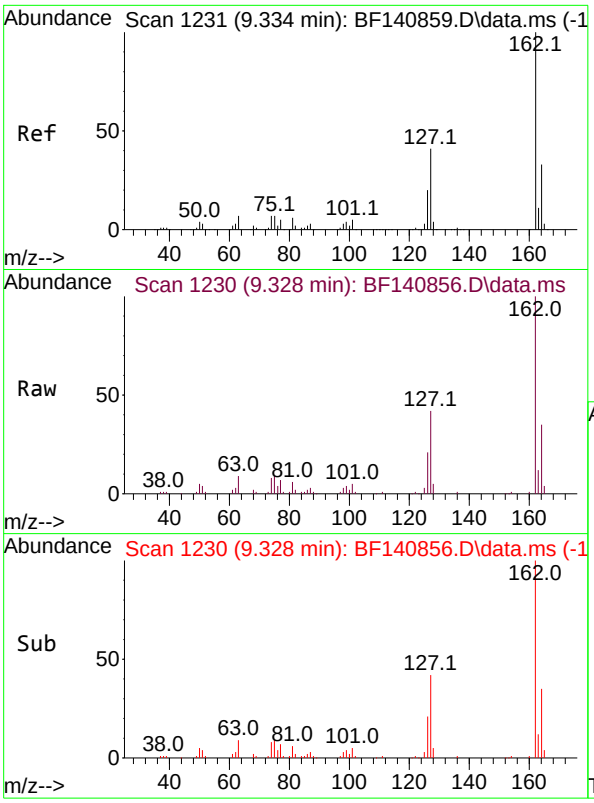


#46
1,1'-Biphenyl
Concen: 5.276 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:154 Resp: 75993

Ion	Ratio	Lower	Upper
154	100		
153	38.5	20.8	60.8
76	10.9	0.0	31.0



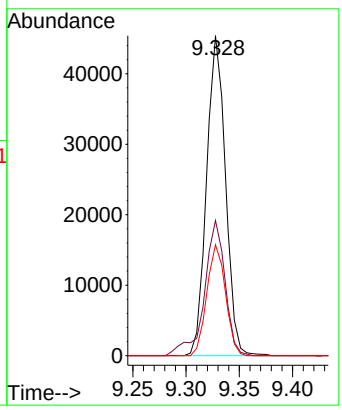


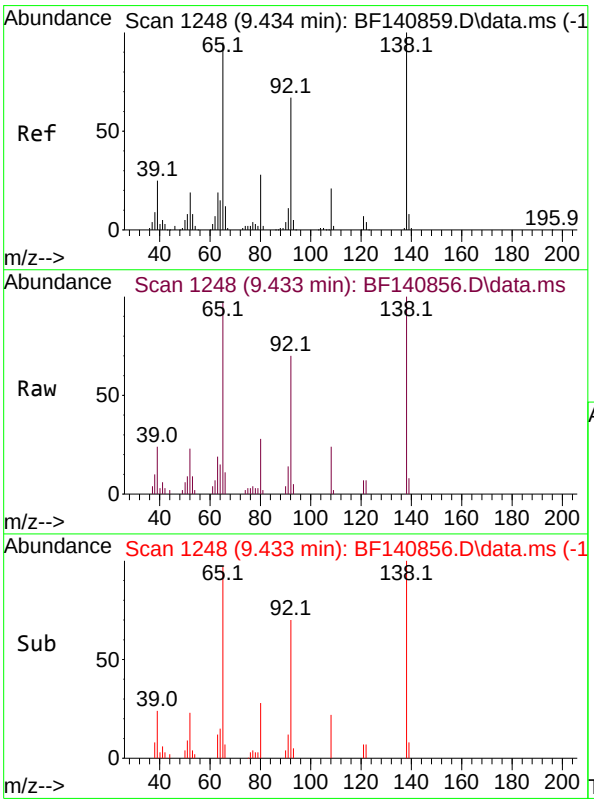
#47
2-Chloronaphthalene
Concen: 5.080 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 55976

Ion	Ratio	Lower	Upper
162	100		
127	42.3	33.5	50.3
164	34.6	26.2	39.2

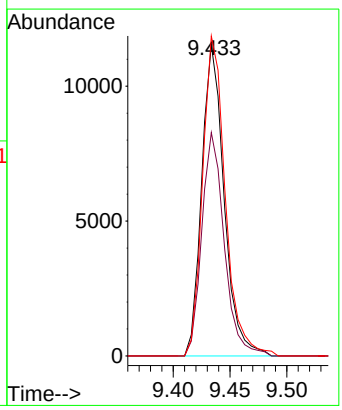


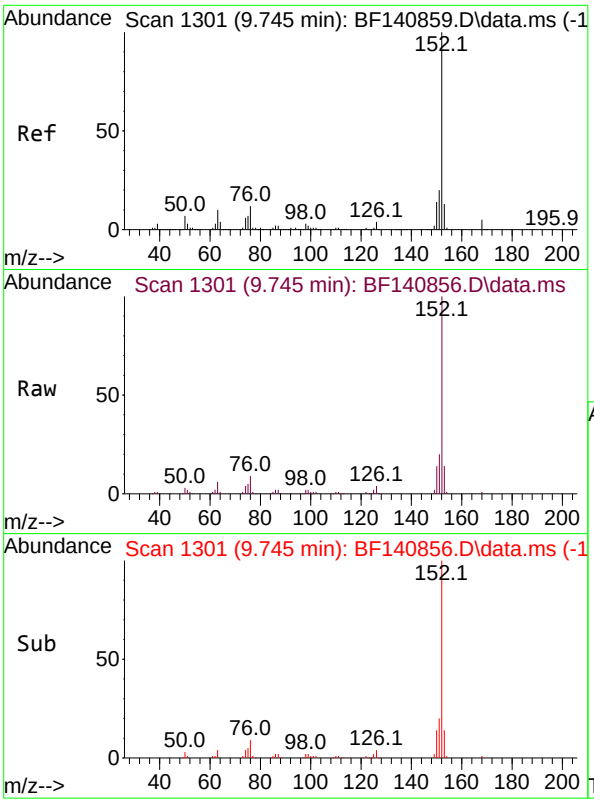


#48
2-Nitroaniline
Concen: 4.757 ng
RT: 9.433 min Scan# 1248
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion: 65 Resp: 15829

Ion	Ratio	Lower	Upper
65	100		
92	71.7	56.3	84.5
138	102.8	83.8	125.6



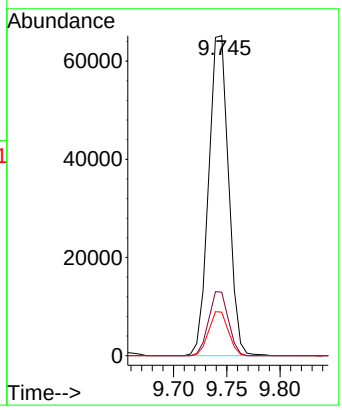


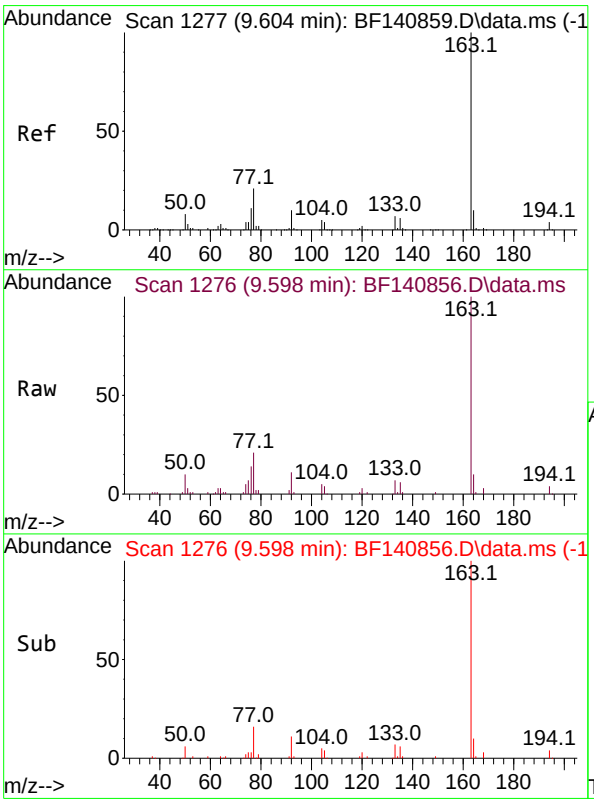
#49
Acenaphthylene
Concen: 5.241 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 84871

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.6	10.6	16.0

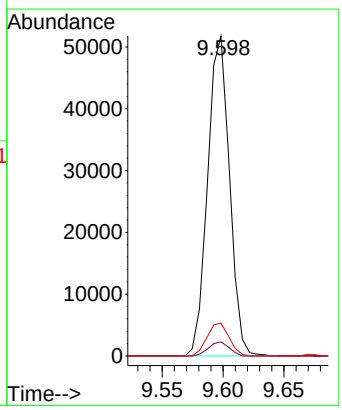


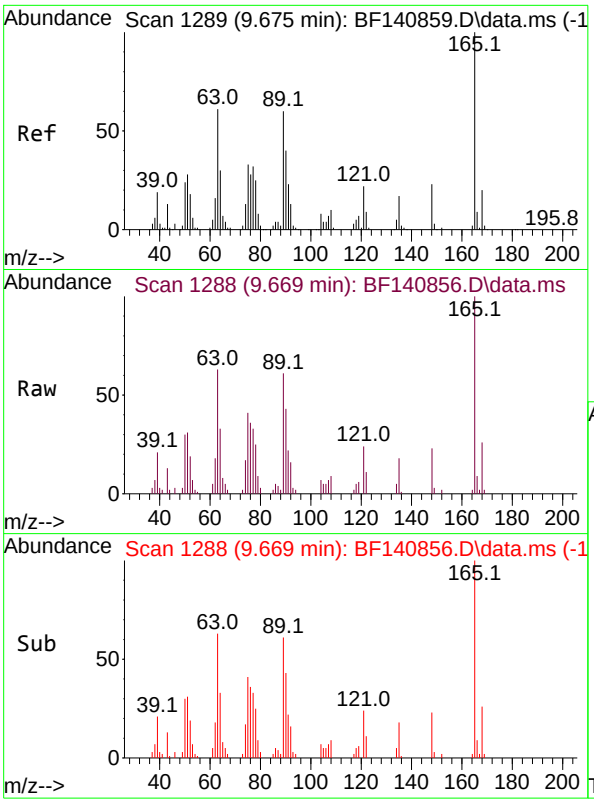


#50
Dimethylphthalate
Concen: 5.075 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:163 Resp: 64810

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.1	4.7
164	10.3	8.1	12.1



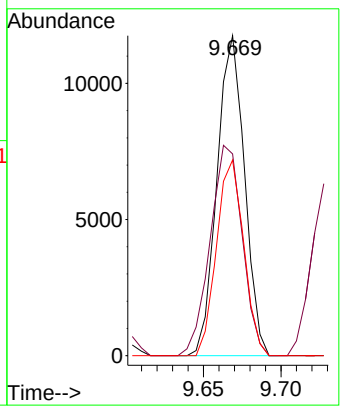


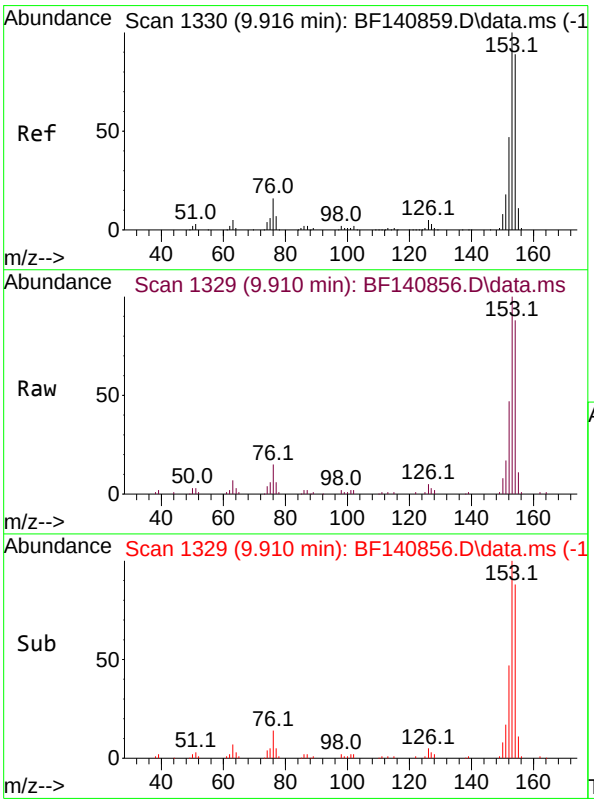
#51
2,6-Dinitrotoluene
Concen: 4.969 ng
RT: 9.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 14507

Ion	Ratio	Lower	Upper
165	100		
63	63.1	49.7	74.5
89	61.2	48.2	72.4

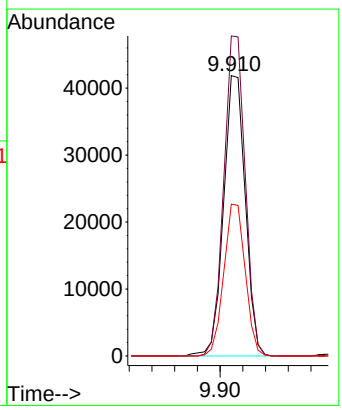


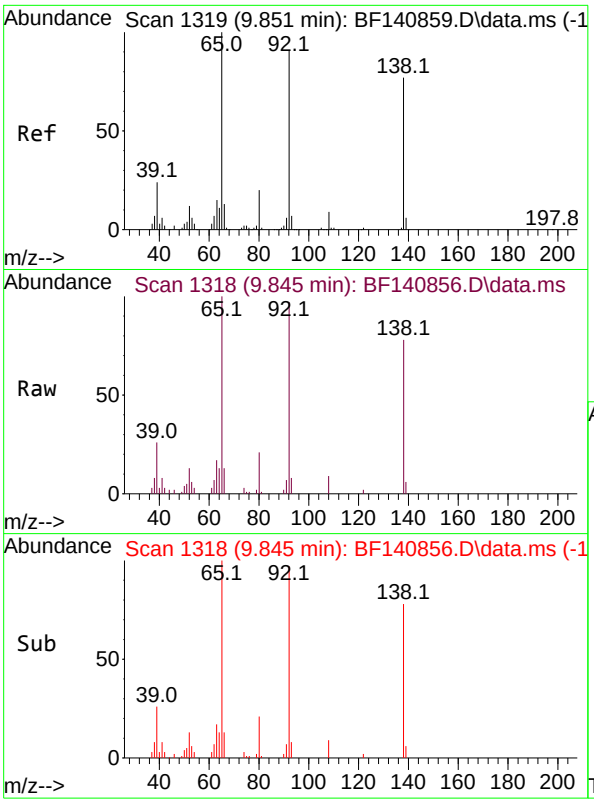


#52
Acenaphthene
Concen: 5.378 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:154 Resp: 55626

Ion	Ratio	Lower	Upper
154	100		
153	114.2	89.9	134.9
152	54.2	42.6	63.8



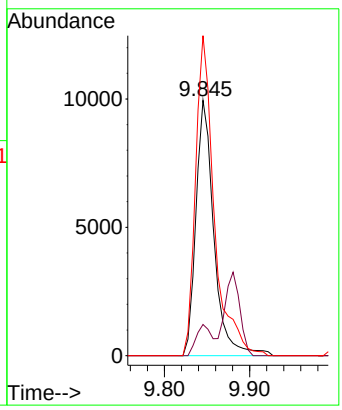


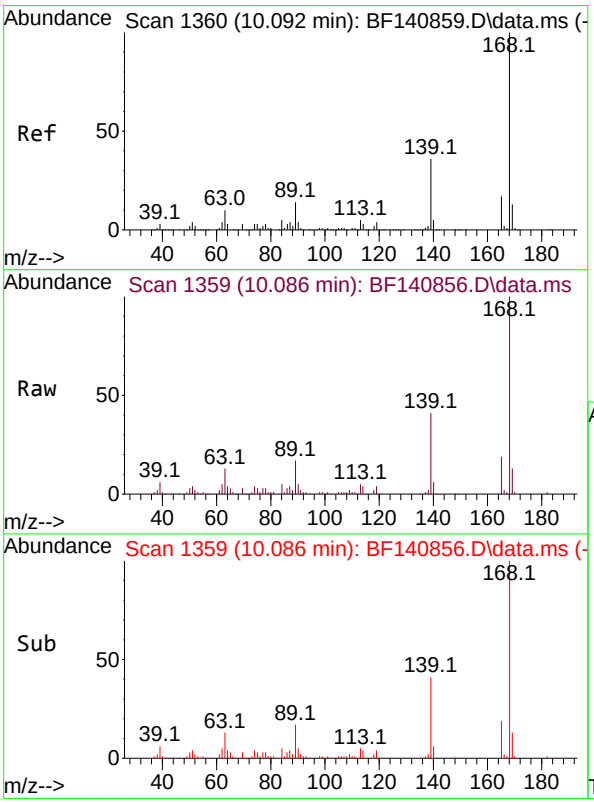
#53
3-Nitroaniline
Concen: 5.034 ng
RT: 9.845 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 14583

Ion	Ratio	Lower	Upper
138	100		
108	12.2	9.0	13.4
92	125.3	95.5	143.3

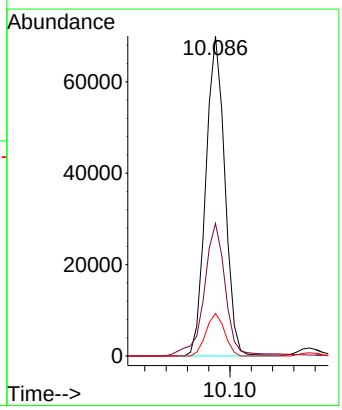


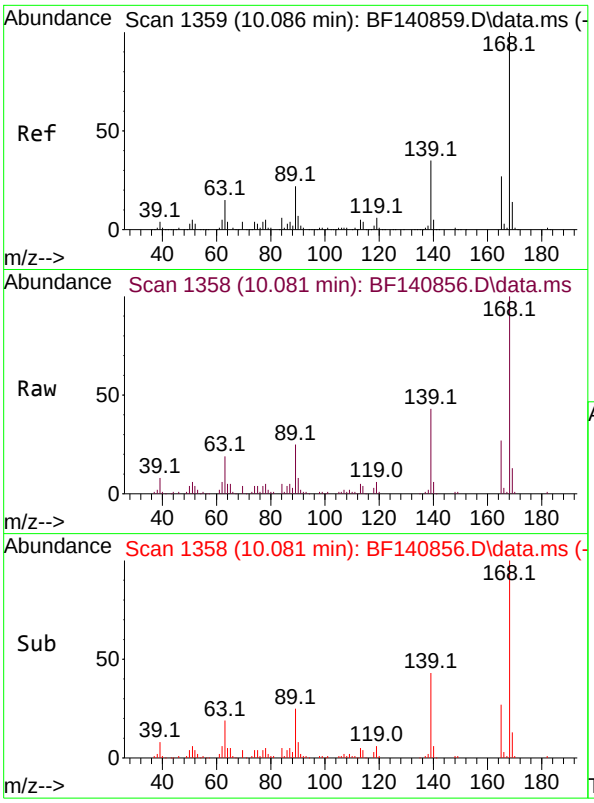


#55
Dibenzofuran
Concen: 5.426 ng
RT: 10.086 min Scan# 1359
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:168 Resp: 86963

Ion	Ratio	Lower	Upper
168	100		
139	41.5	31.1	46.7
169	13.3	10.6	16.0



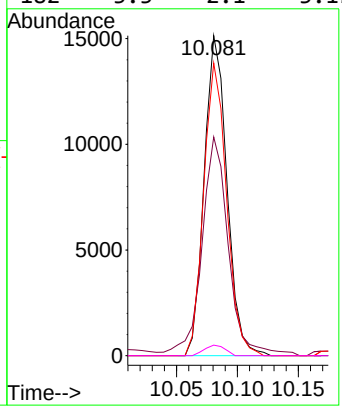


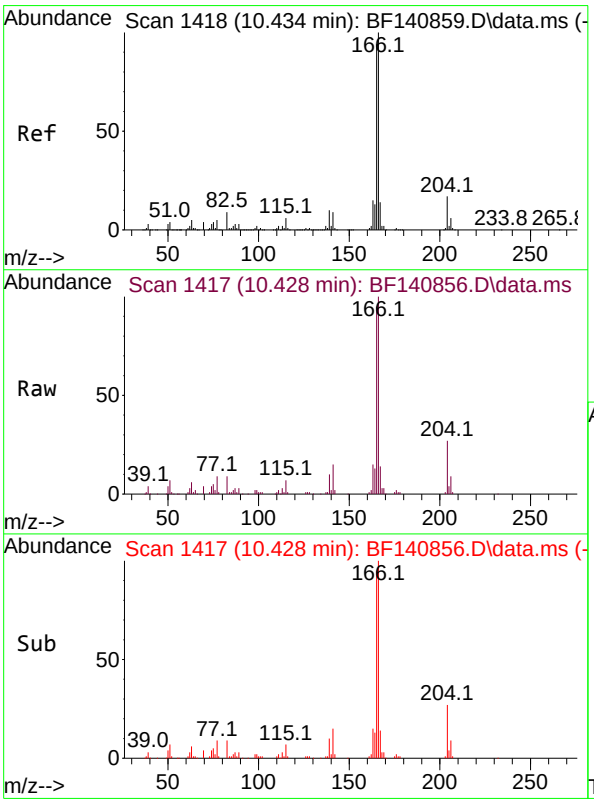
#57
2,4-Dinitrotoluene
Concen: 5.129 ng
RT: 10.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 19701

Ion	Ratio	Lower	Upper
165	100		
63	68.4	49.3	73.9
89	91.4	66.2	99.4
182	3.3	2.1	3.1#

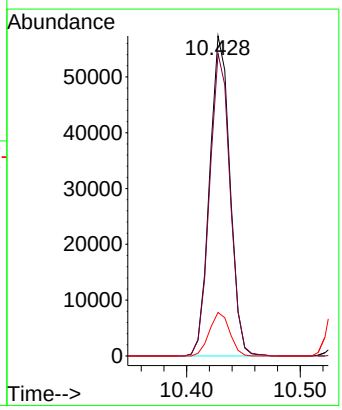


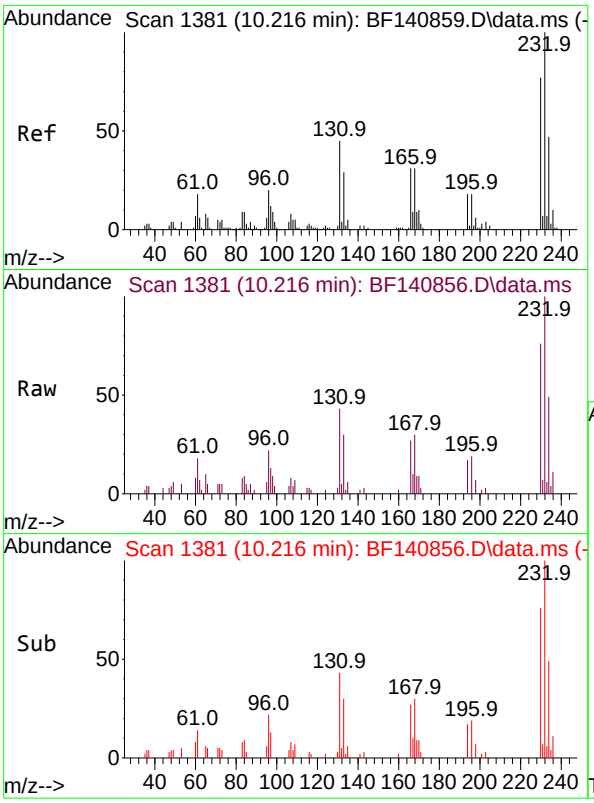


#58
Fluorene
Concen: 5.388 ng
RT: 10.428 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:166 Resp: 71243

Ion	Ratio	Lower	Upper
166	100		
165	94.5	75.1	112.7
167	13.6	11.1	16.7



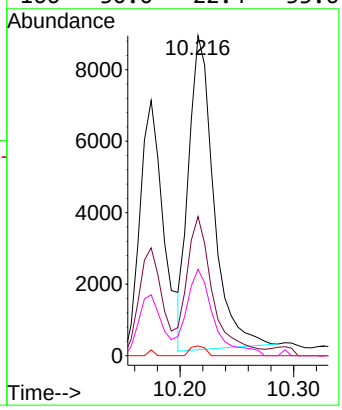


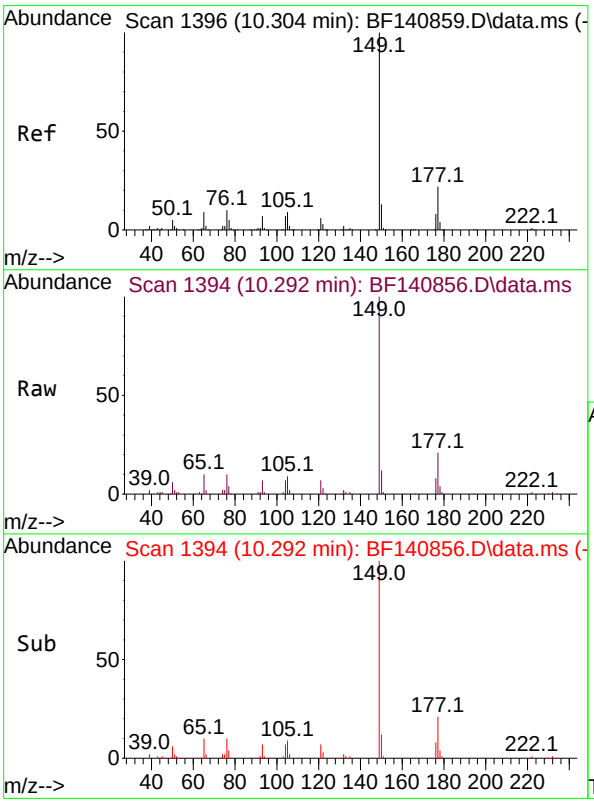
#59
2,3,4,6-Tetrachlorophenol
Concen: 4.400 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:232 Resp: 13434

Ion	Ratio	Lower	Upper
232	100		
131	47.8	35.1	52.7
130	1.9	1.8	2.8
166	30.0	22.4	33.6

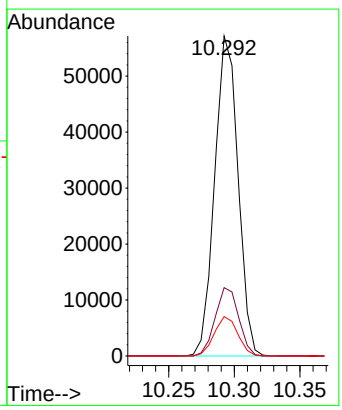


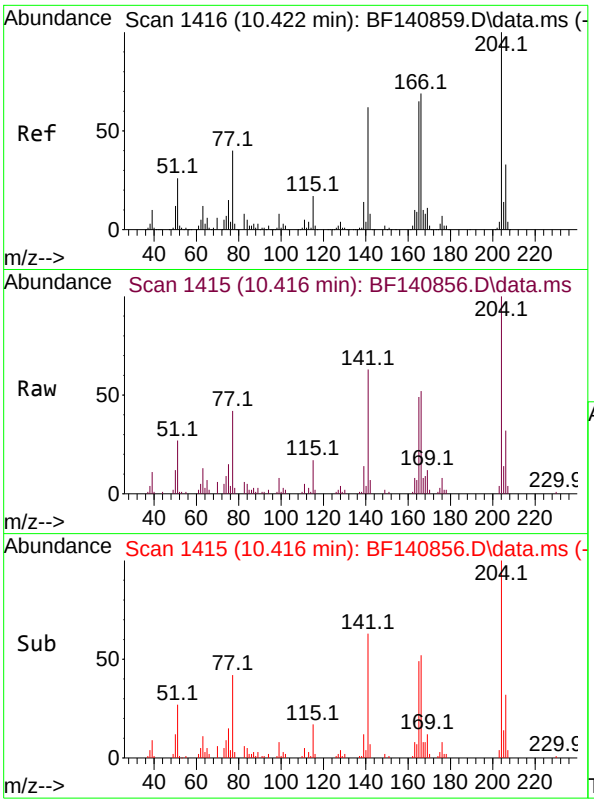


#60
Diethylphthalate
Concen: 5.341 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:149 Resp: 70725

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.2	25.8
150	12.3	10.1	15.1



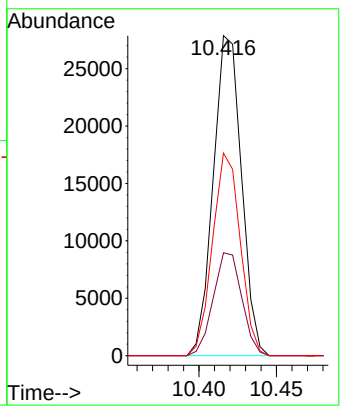


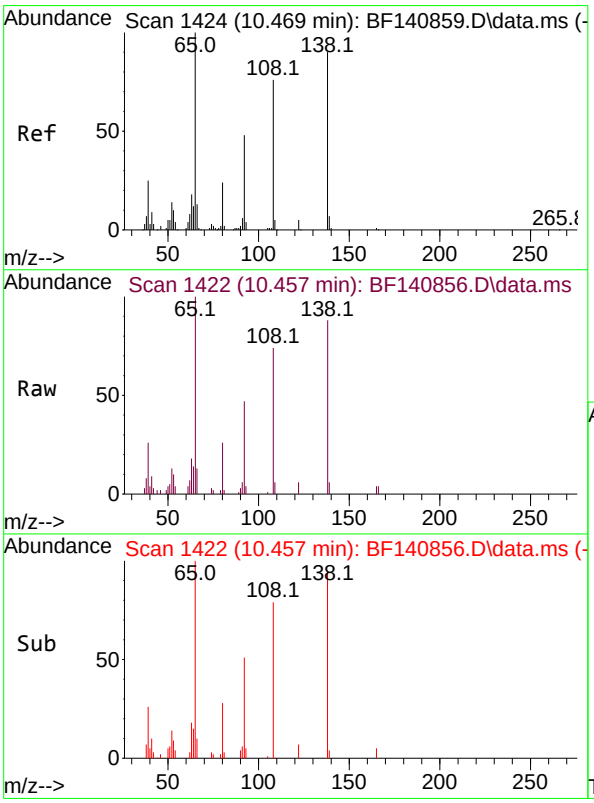
#61
4-Chlorophenyl-phenylether
Concen: 5.315 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:204 Resp: 35304

Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.5	39.7
141	63.3	50.0	75.0

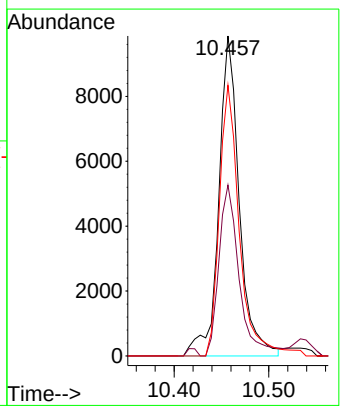


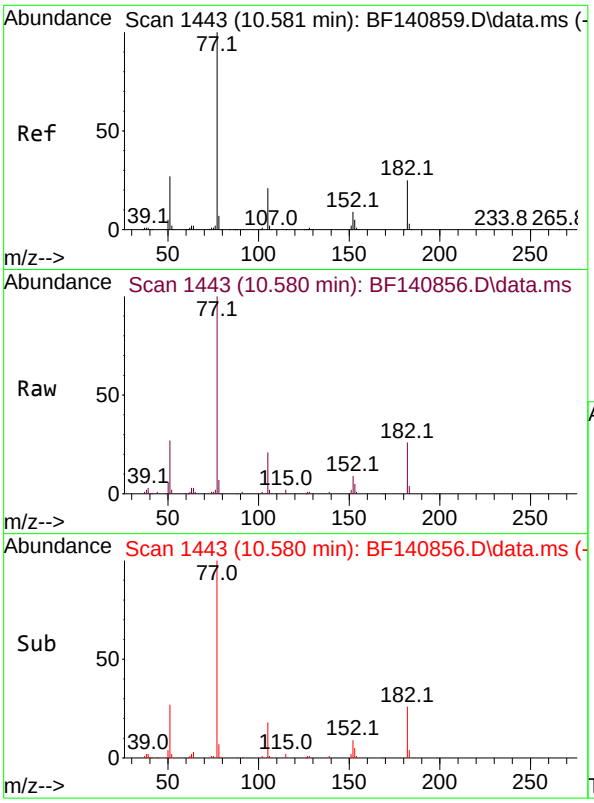


#62
4-Nitroaniline
Concen: 4.916 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:138 Resp: 14883

Ion	Ratio	Lower	Upper
138	100		
92	53.4	32.6	72.6
108	84.6	64.1	104.1



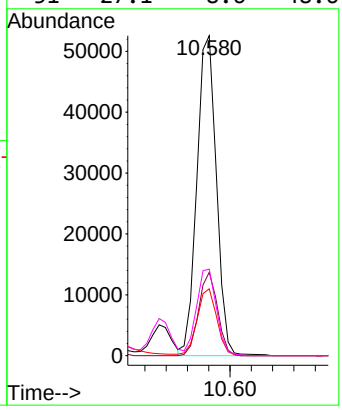


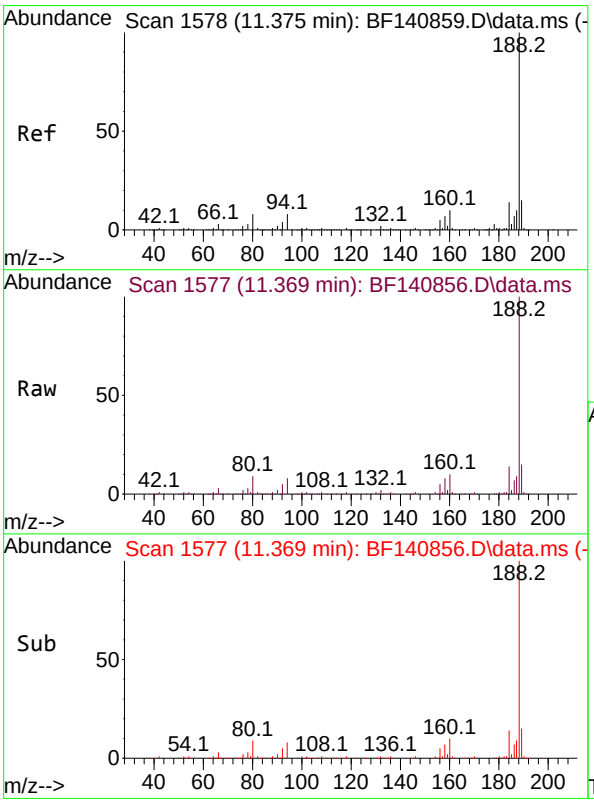
#63
Azobenzene
Concen: 5.391 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 67111

Ion	Ratio	Lower	Upper
77	100		
182	26.0	4.5	44.5
105	20.9	0.9	40.9
51	27.1	8.6	48.6

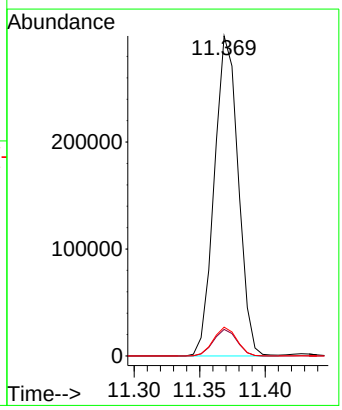


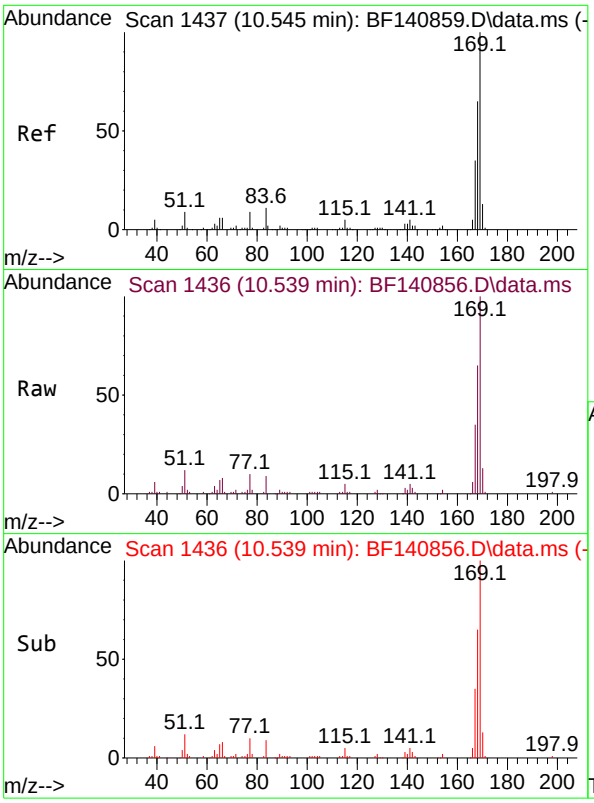


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:188 Resp: 379227

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.4	9.6
80	9.0	6.8	10.2



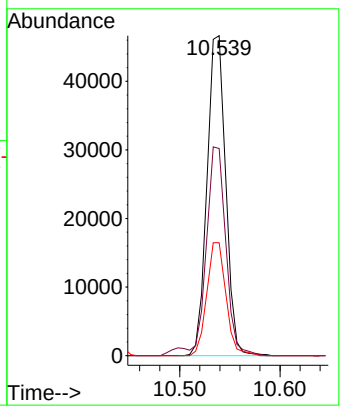


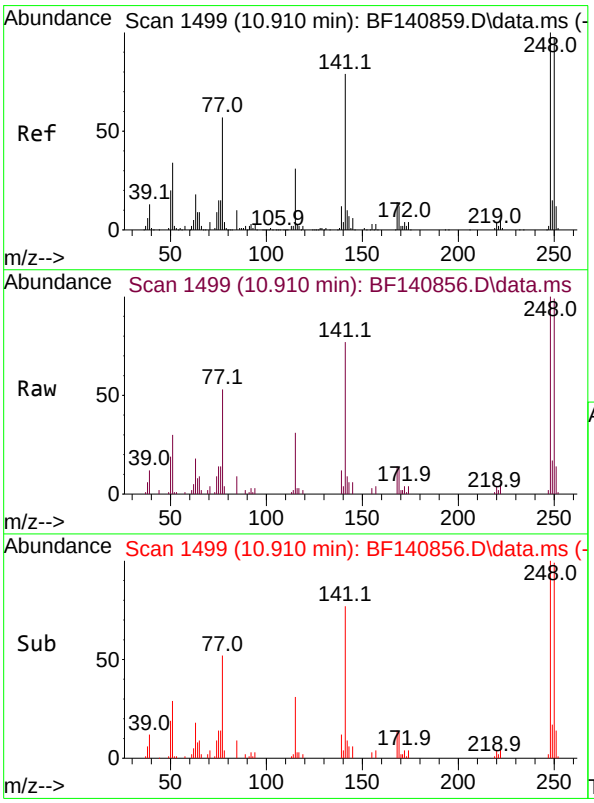
#66
n-Nitrosodiphenylamine
Concen: 5.196 ng
RT: 10.539 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:169 Resp: 60581

Ion	Ratio	Lower	Upper
169	100		
168	64.7	53.4	80.0
167	35.3	28.3	42.5

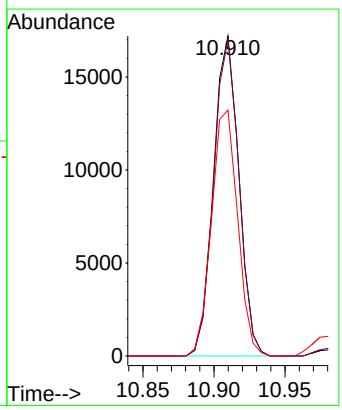


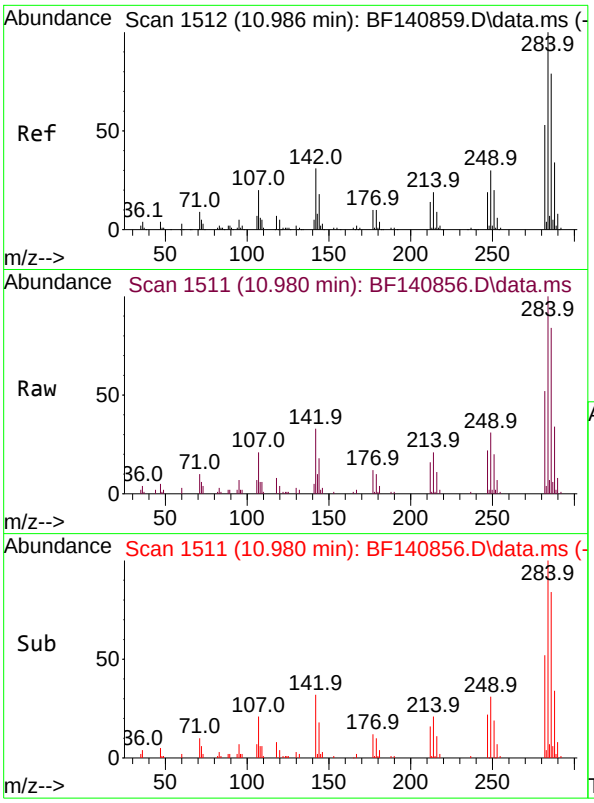


#67
4-Bromophenyl-phenylether
Concen: 5.028 ng
RT: 10.910 min Scan# 1499
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:248 Resp: 21332

Ion	Ratio	Lower	Upper
248	100		
250	99.0	77.4	116.2
141	76.9	62.9	94.3



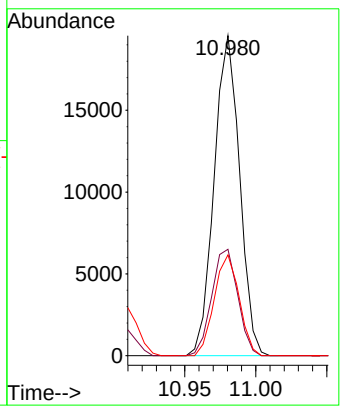


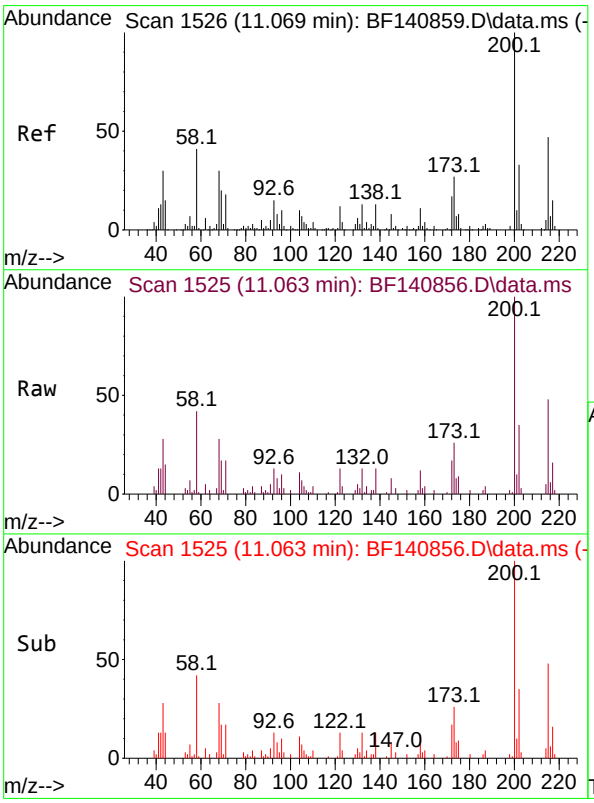
#68
Hexachlorobenzene
Concen: 5.066 ng
RT: 10.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:284 Resp: 24367

Ion	Ratio	Lower	Upper
284	100		
142	33.3	24.6	36.8
249	31.5	24.3	36.5

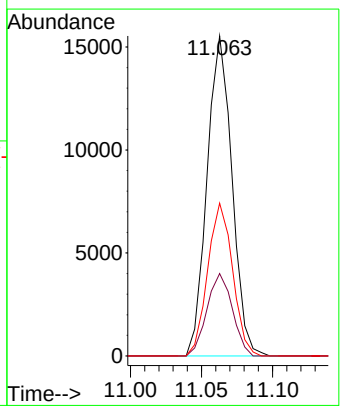


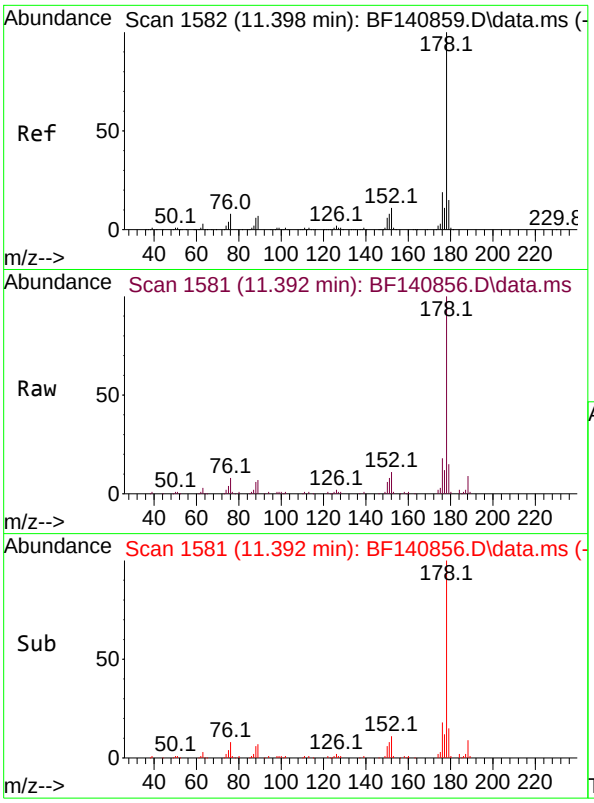


#69
Atrazine
Concen: 5.817 ng
RT: 11.063 min Scan# 1525
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:200 Resp: 18943

Ion	Ratio	Lower	Upper
200	100		
173	25.8	6.6	46.6
215	47.7	26.7	66.7



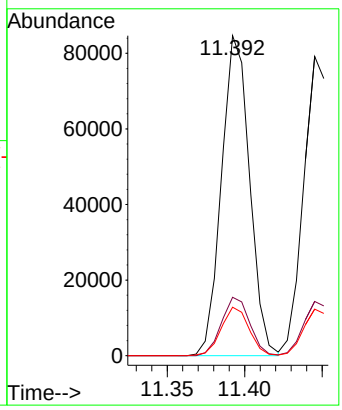


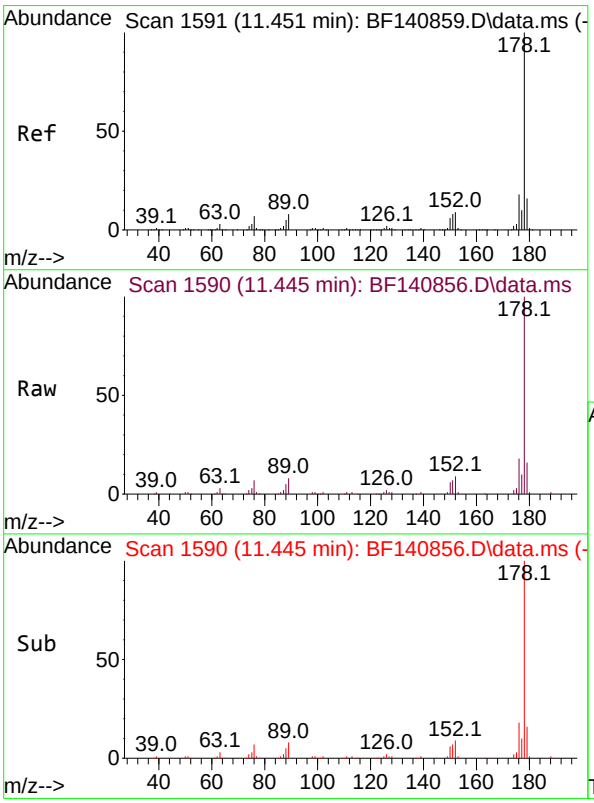
#71
Phenanthrene
Concen: 5.470 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 106671

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.2
179	15.1	12.1	18.1

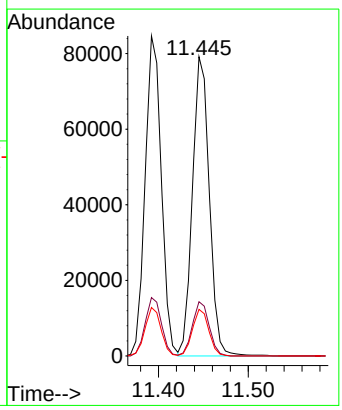


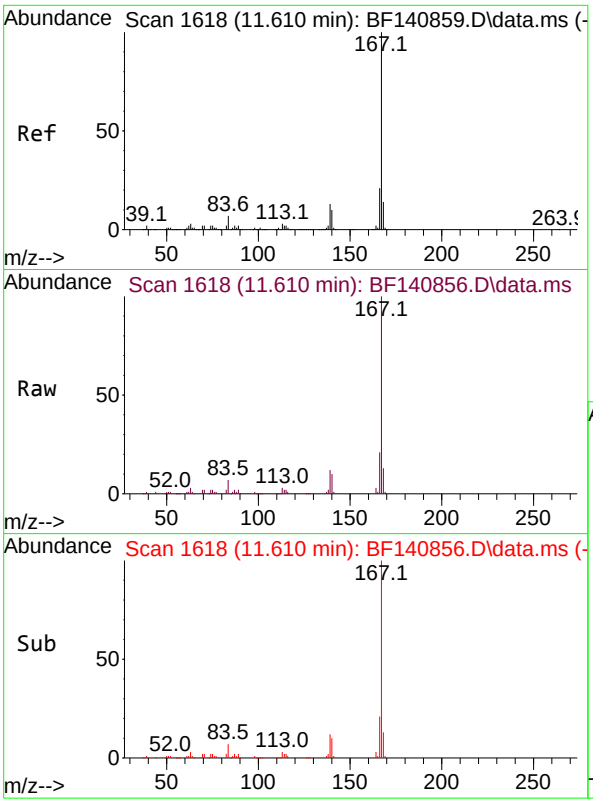


#72
Anthracene
Concen: 5.385 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:178 Resp: 103428

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.6	22.0
179	15.6	12.6	18.8



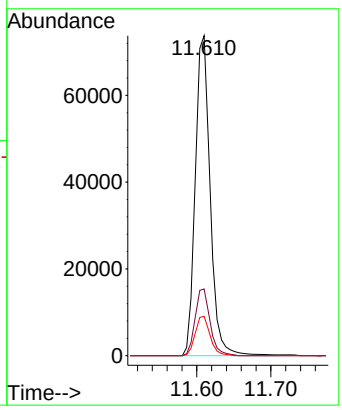


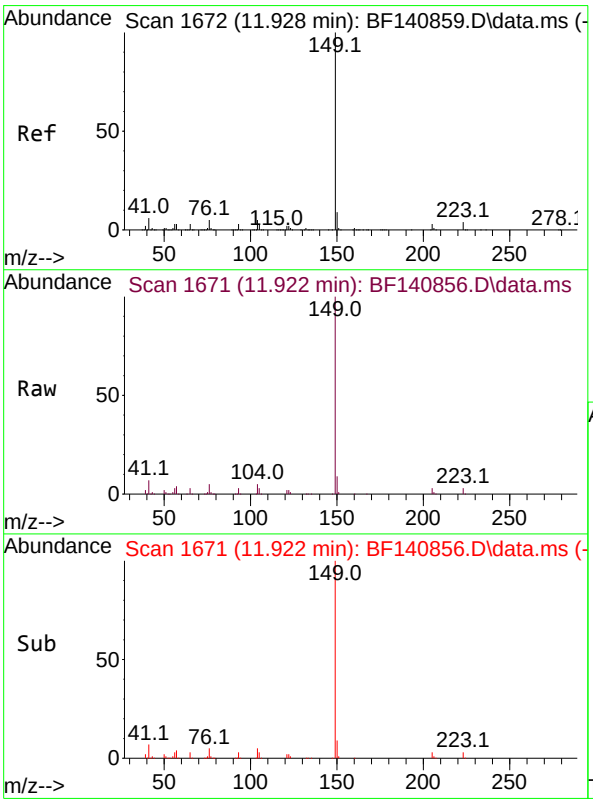
#73
Carbazole
Concen: 5.473 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 102961

Ion	Ratio	Lower	Upper
167	100		
166	20.8	17.0	25.6
139	12.3	10.2	15.2

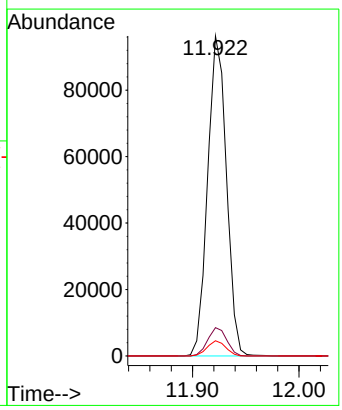


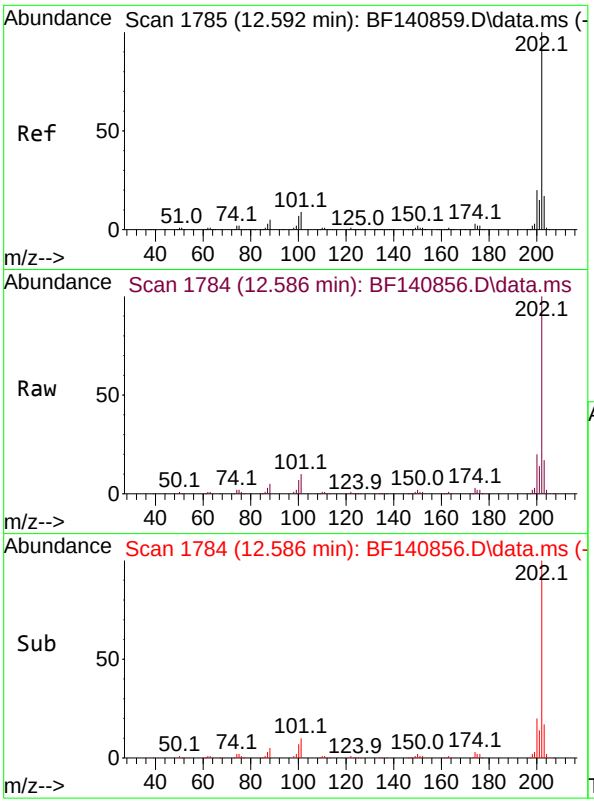


#74
Di-n-butylphthalate
Concen: 5.347 ng
RT: 11.922 min Scan# 1671
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:149 Resp: 118050

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.5	11.3
104	4.7	3.8	5.8



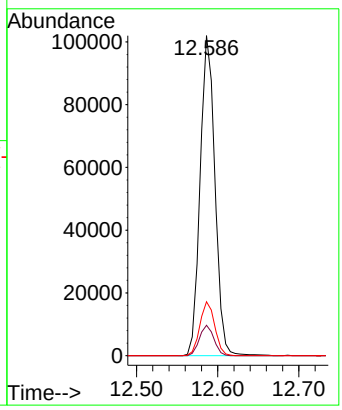


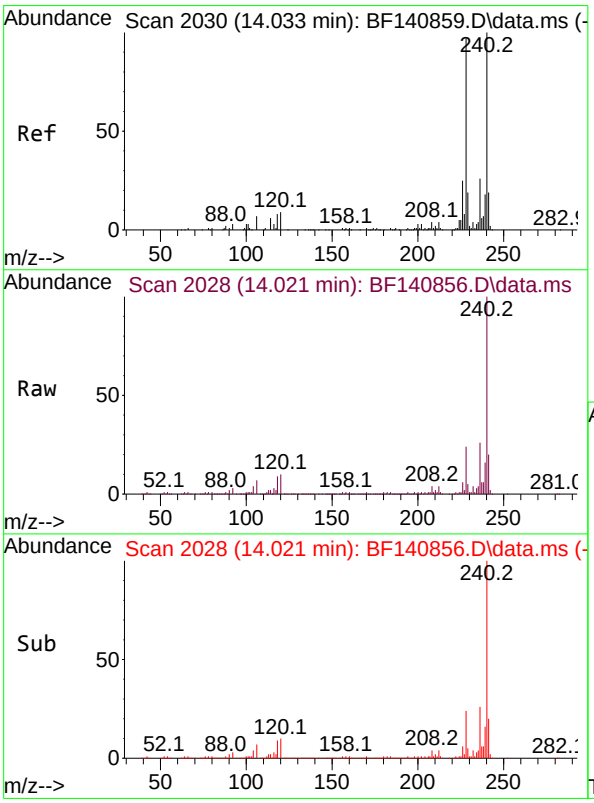
#75
Fluoranthene
Concen: 5.758 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 129330

Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	29.3
203	16.9	0.0	37.4

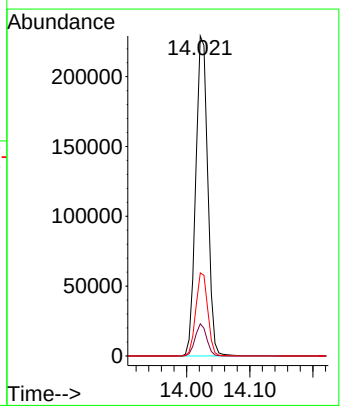


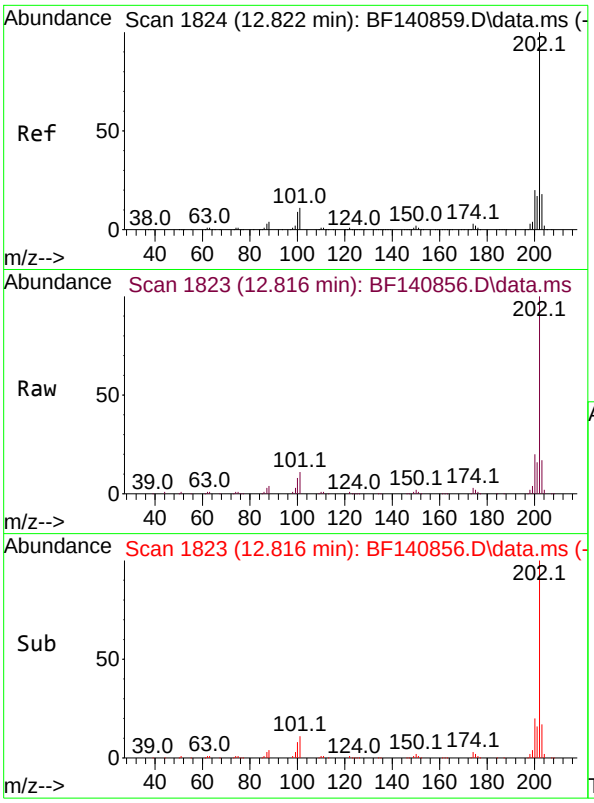


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:240 Resp: 302472

Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.6	11.4
236	26.0	20.5	30.7



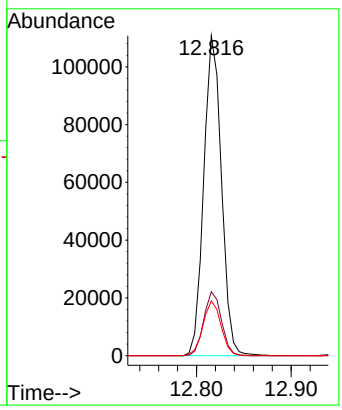


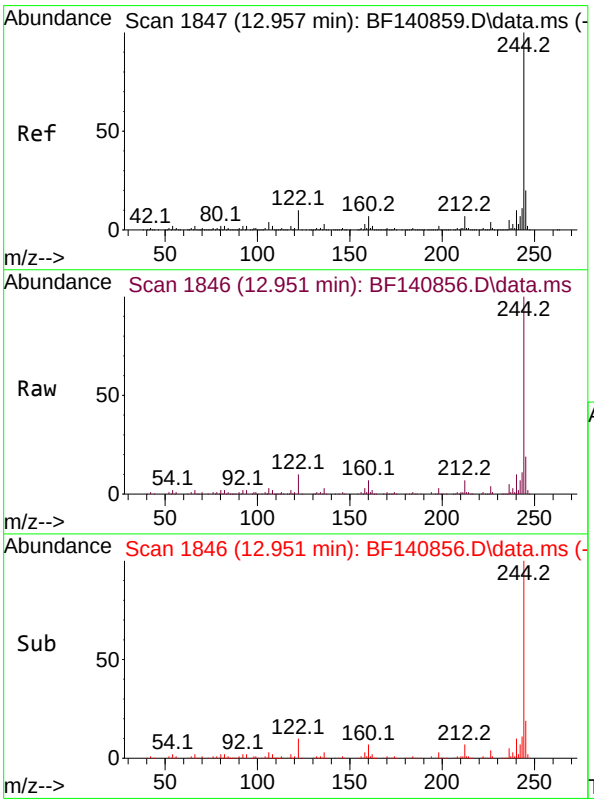
#78
Pyrene
Concen: 5.352 ng
RT: 12.816 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 143947

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.1	14.2	21.4

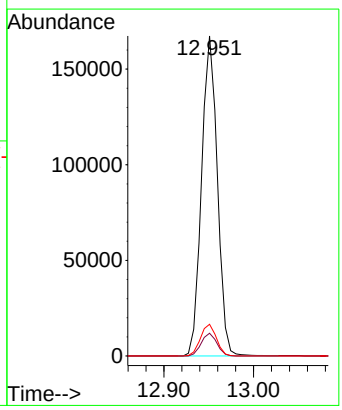


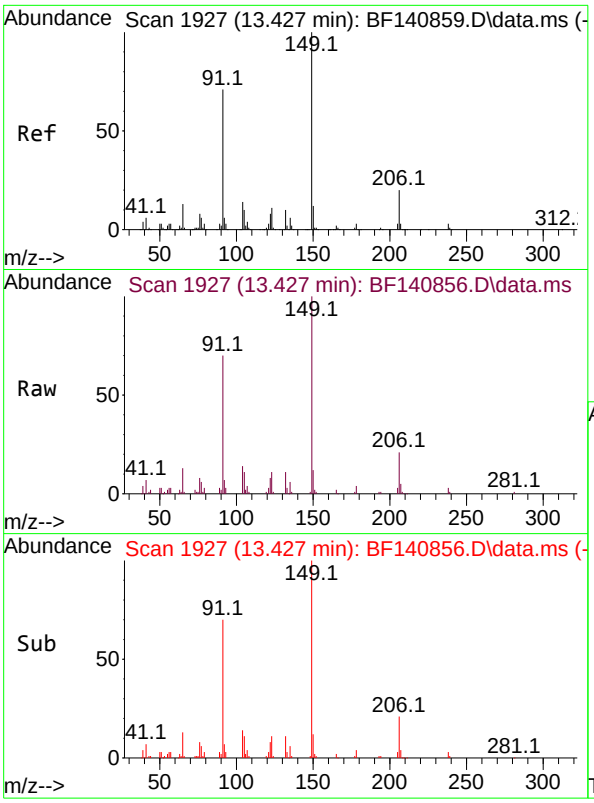


#79
Terphenyl-d14
Concen: 10.673 ng
RT: 12.951 min Scan# 1846
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:244 Resp: 204731

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	9.9	8.2	12.2



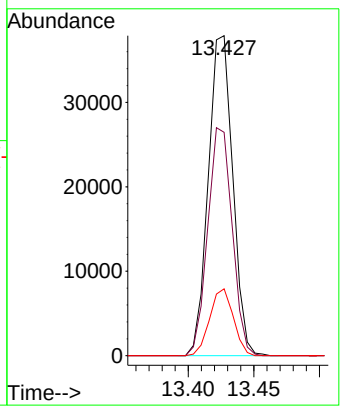


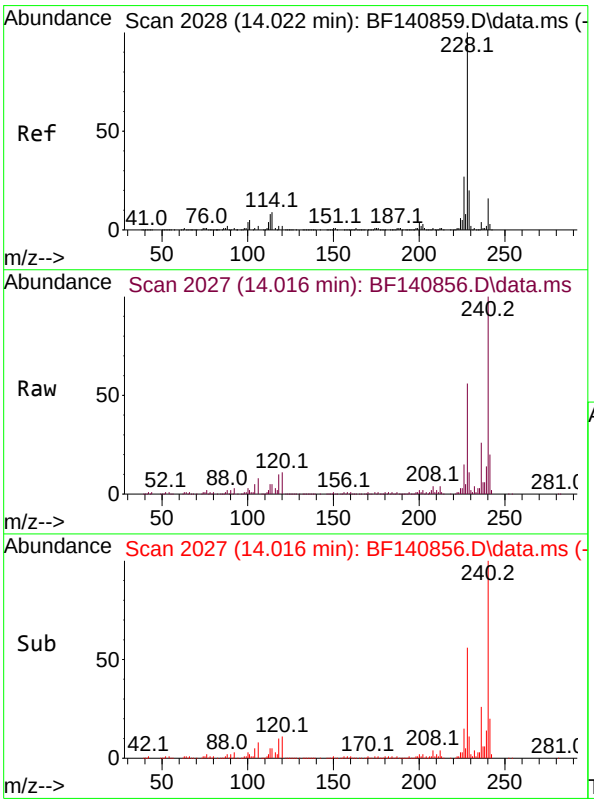
#80
Butylbenzylphthalate
Concen: 4.965 ng
RT: 13.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 49136

Ion	Ratio	Lower	Upper
149	100		
91	69.8	56.7	85.1
206	20.9	16.4	24.6

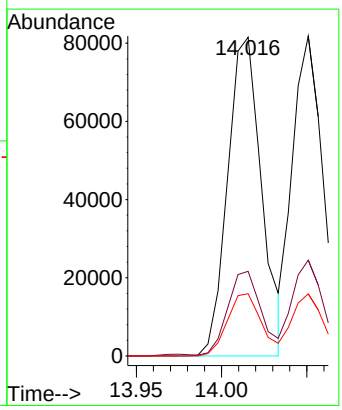


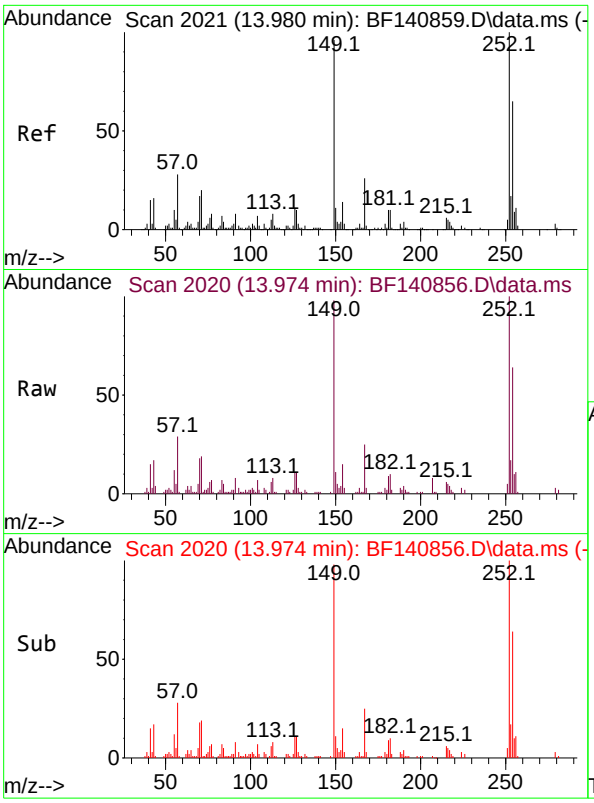


#81
Benzo(a)anthracene
Concen: 5.270 ng
RT: 14.016 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:228 Resp: 112964

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.8	32.8
229	19.5	15.8	23.8



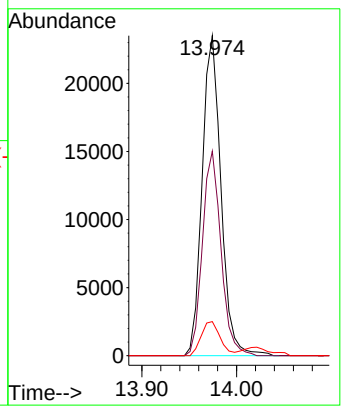


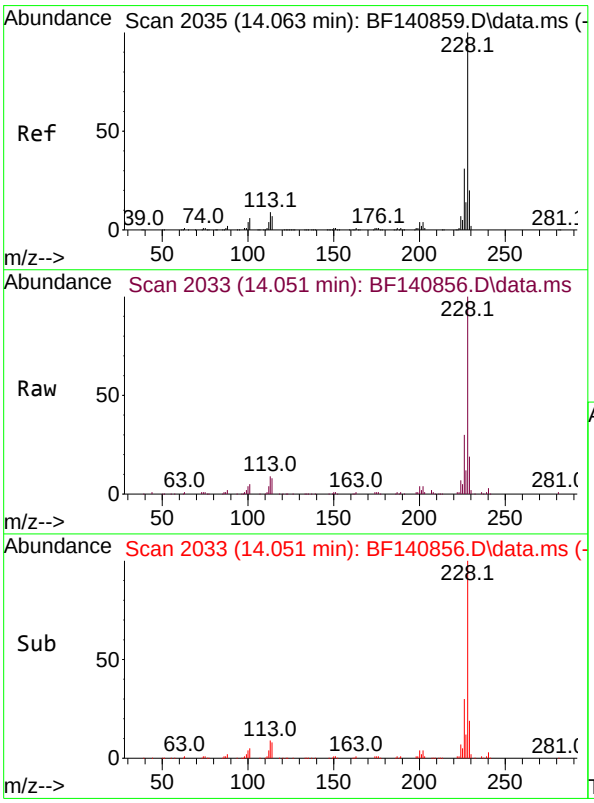
#82
3,3'-Dichlorobenzidine
Concen: 5.010 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 32405

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.3	78.5
126	10.7	8.4	12.6

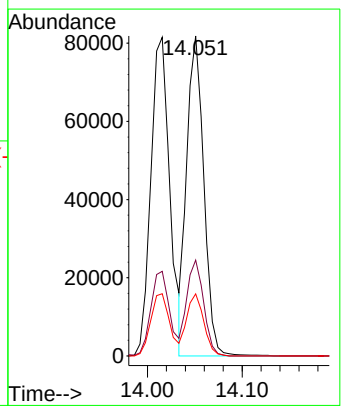


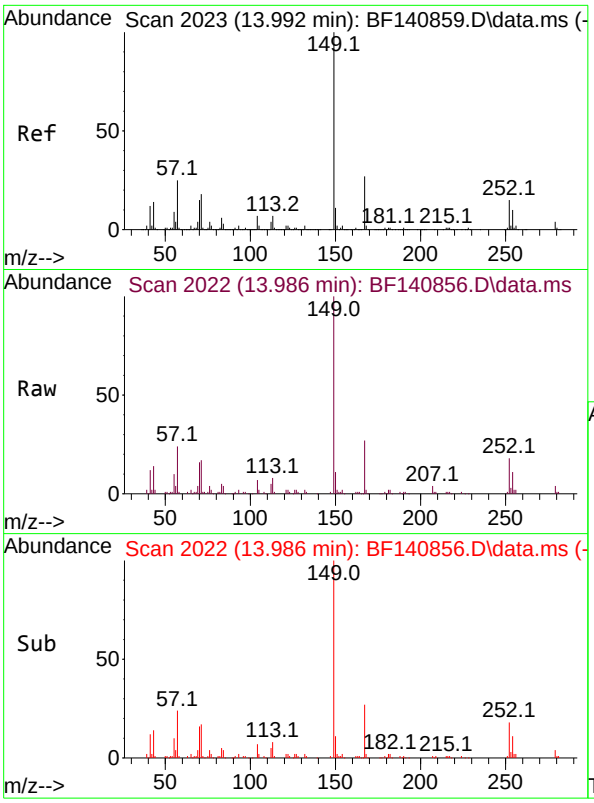


#83
Chrysene
Concen: 5.280 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:228 Resp: 102933

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.1	36.1
229	19.4	16.0	24.0



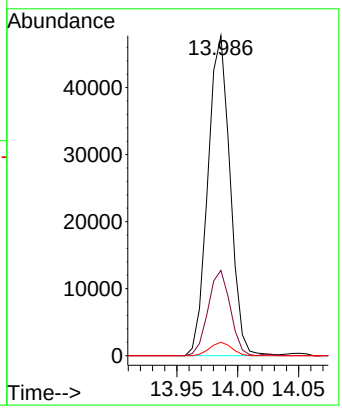


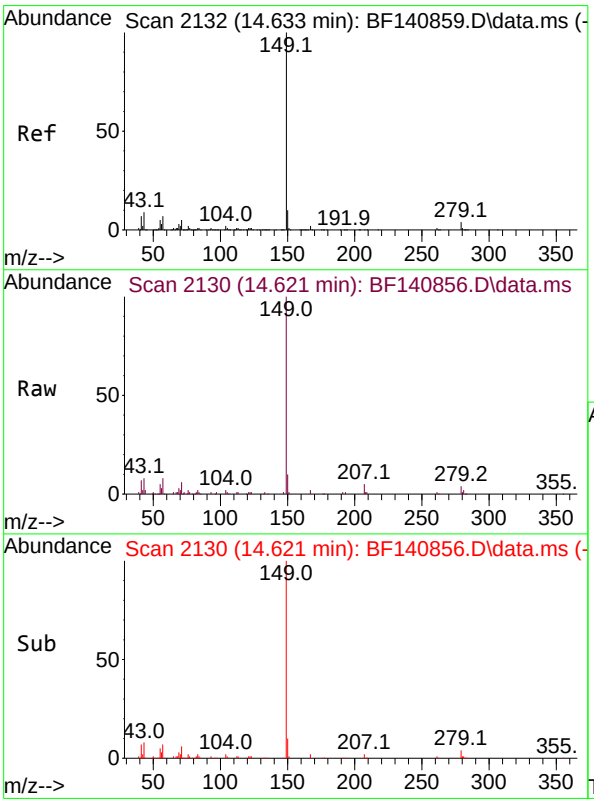
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.764 ng
RT: 13.986 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 60799

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.8	32.8
279	4.2	3.5	5.3

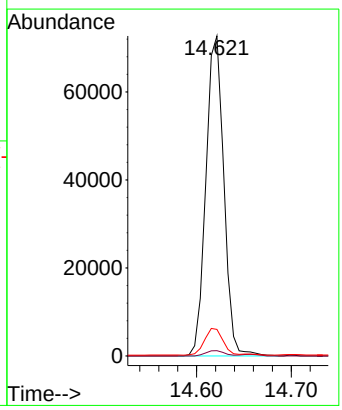


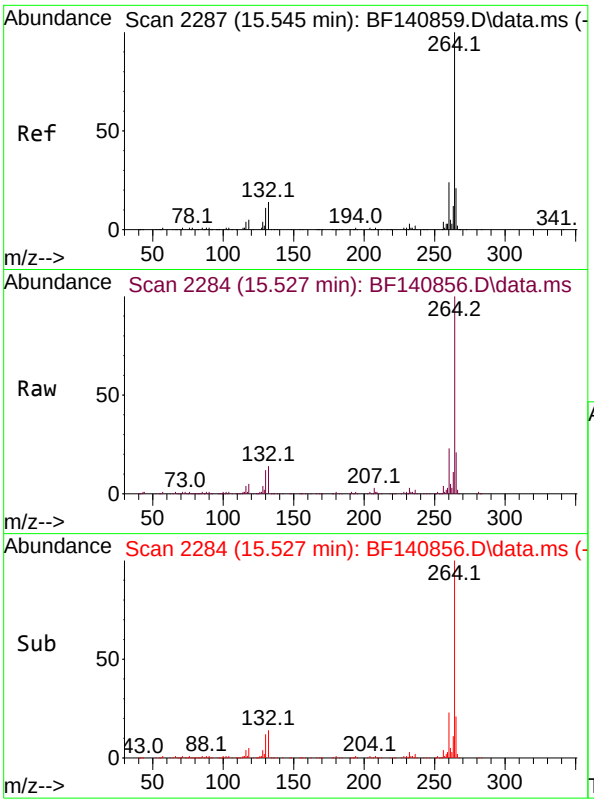


#85
Di-n-octyl phthalate
Concen: 4.964 ng
RT: 14.621 min Scan# 2130
Delta R.T. -0.012 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:149 Resp: 95835

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	8.9	7.0	10.6



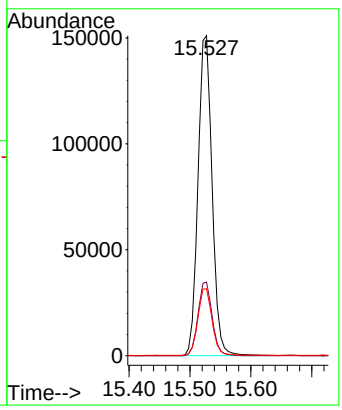


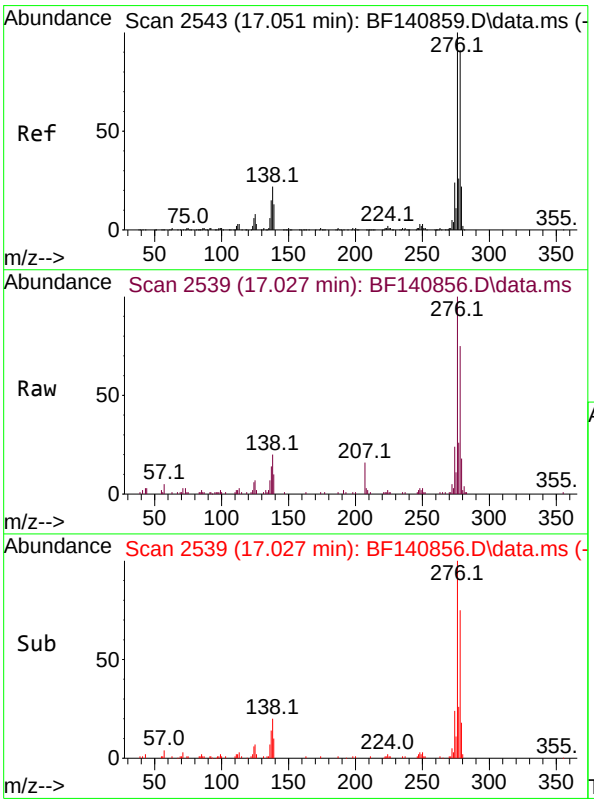
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:264 Resp: 241868

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.1	28.7
265	20.9	17.0	25.4

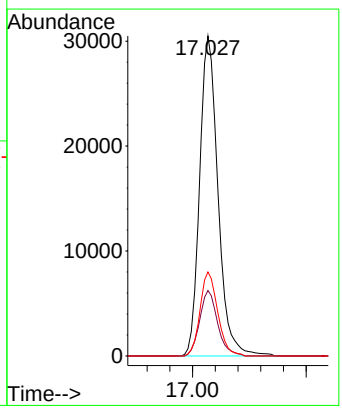


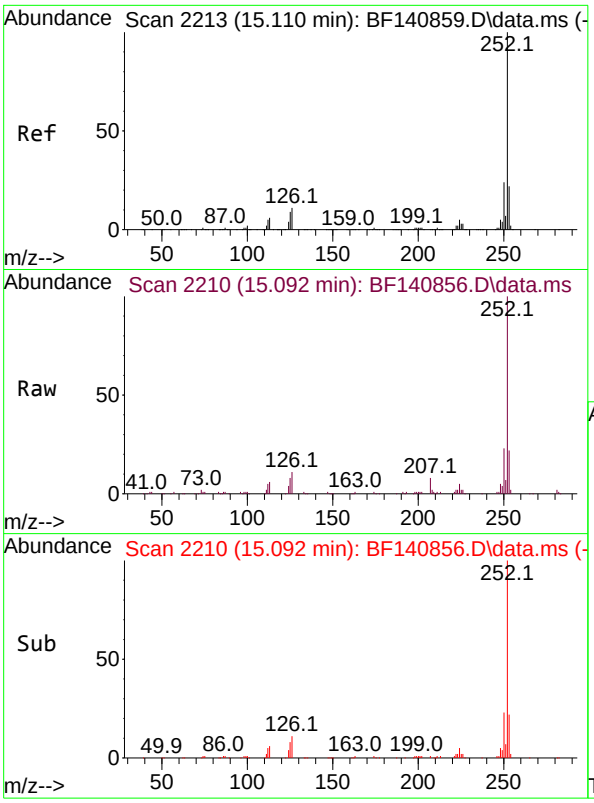


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.526 ng
RT: 17.027 min Scan# 2539
Delta R.T. -0.024 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:276 Resp: 68314

Ion	Ratio	Lower	Upper
276	100		
138	19.9	16.9	25.3
277	25.2	20.2	30.4



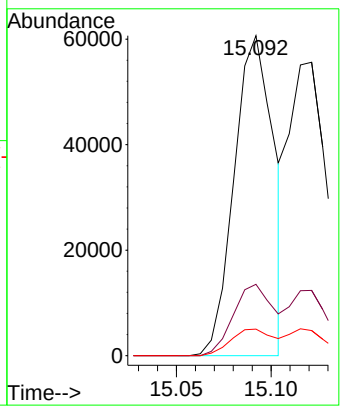


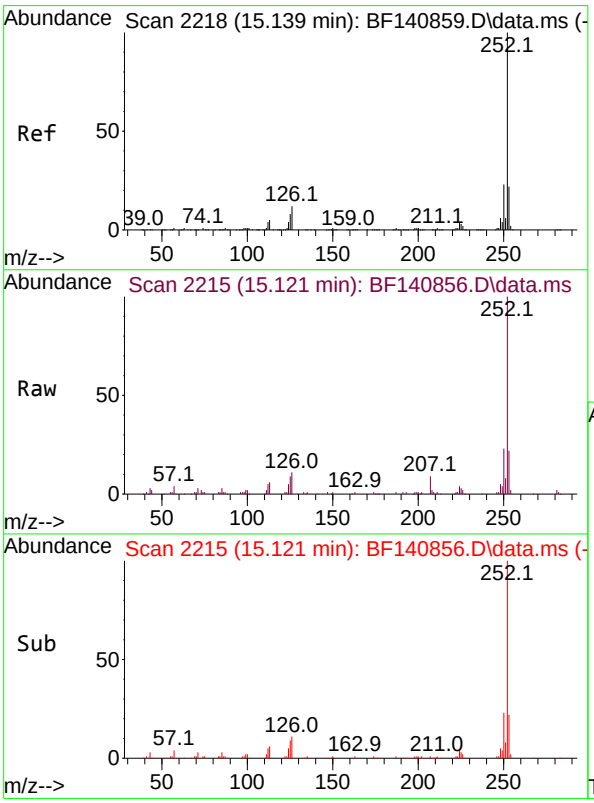
#88
Benzo(b)fluoranthene
Concen: 5.238 ng
RT: 15.092 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 87940

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	8.3	7.0	10.4

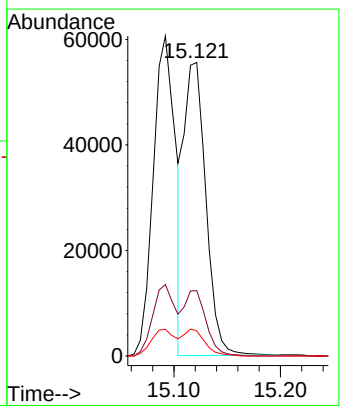


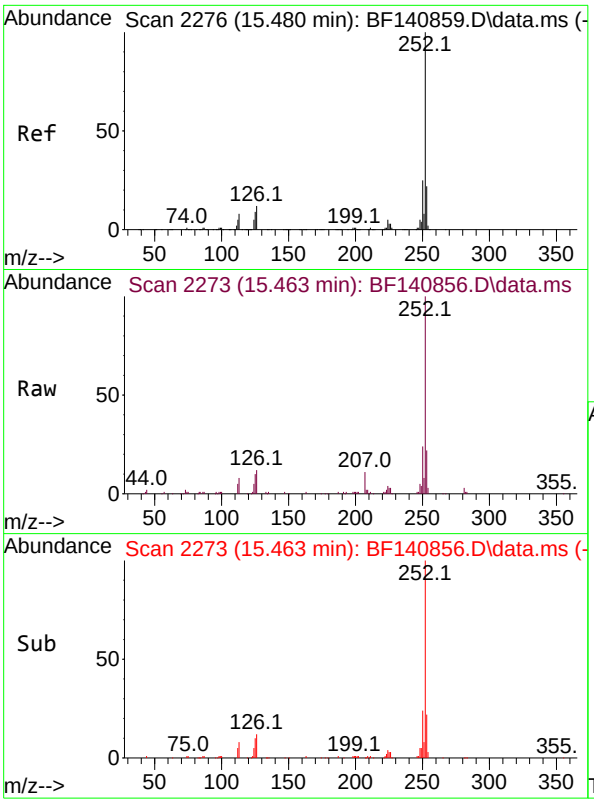


#89
Benzo(k)fluoranthene
Concen: 5.534 ng
RT: 15.121 min Scan# 2215
Delta R.T. -0.018 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:252 Resp: 79696

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	8.6	6.8	10.2



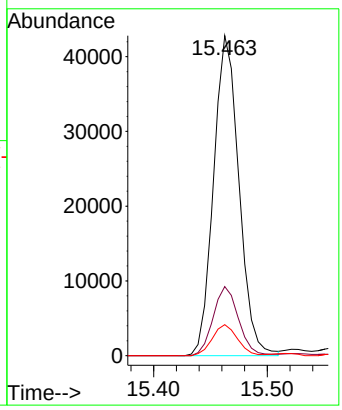


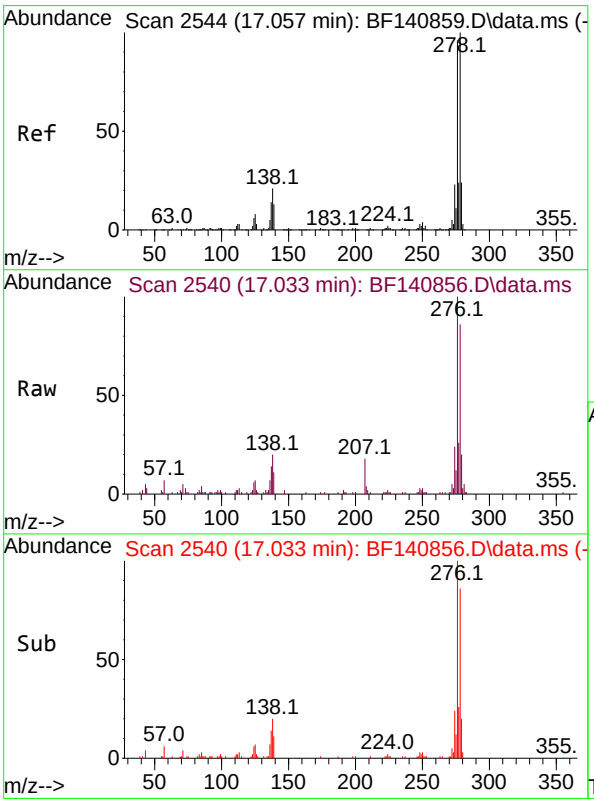
#90
Benzo(a)pyrene
Concen: 5.057 ng
RT: 15.463 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 66476

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	9.7	7.5	11.3

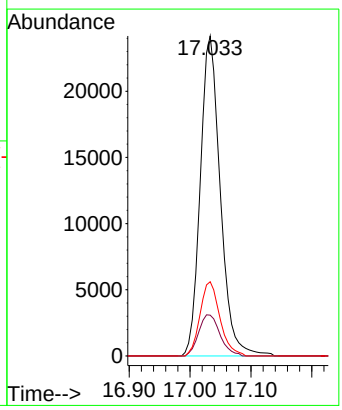


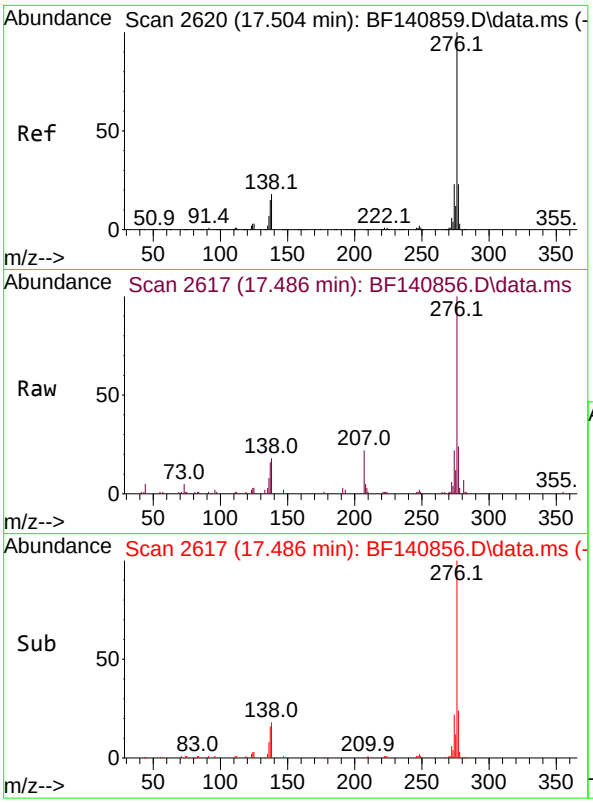


#91
Dibenzo(a,h)anthracene
Concen: 4.416 ng
RT: 17.033 min Scan# 2540
Delta R.T. -0.024 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Tgt Ion:278 Resp: 55222

Ion	Ratio	Lower	Upper
278	100		
139	12.8	10.6	16.0
279	23.2	19.2	28.8



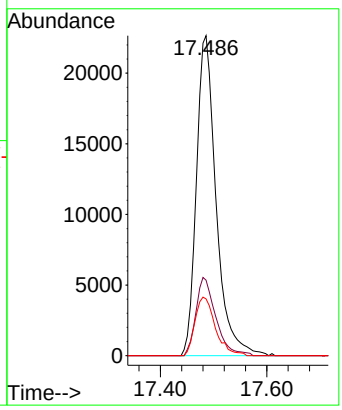


#92
Benzo(g,h,i)perylene
Concen: 4.567 ng
RT: 17.486 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140856.D
Acq: 16 Dec 2024 12:39

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 58125

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.7	28.1
138	17.7	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140857.D
Acq On : 16 Dec 2024 13:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Dec 16 16:47:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.845	152	76578	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	298630	20.000	ng		0.00
39) Acenaphthene-d10	9.880	164	192062	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	358020	20.000	ng		0.00
76) Chrysene-d12	14.027	240	282501	20.000	ng		0.00
86) Perylene-d12	15.533	264	236486	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	94639	20.344	ng		0.00
7) Phenol-d6	6.492	99	127200	20.645	ng		0.00
23) Nitrobenzene-d5	7.410	82	119665	20.048	ng		0.00
42) 2,4,6-Tribromophenol	10.674	330	45327	19.954	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	270749	19.381	ng		0.00
79) Terphenyl-d14	12.951	244	352398	19.670	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	20526	10.244	ng		95
3) Pyridine	3.428	79	45270	9.756	ng		100
4) n-Nitrosodimethylamine	3.351	42	22689	9.699	ng		99
6) Aniline	6.516	93	55946	10.620	ng	#	80
8) 2-Chlorophenol	6.639	128	52812	10.411	ng		97
9) Benzaldehyde	6.404	77	40257	11.792	ng		97
10) Phenol	6.510	94	64718	10.135	ng		91
11) bis(2-Chloroethyl)ether	6.581	93	47546	9.984	ng		97
12) 1,3-Dichlorobenzene	6.786	146	58952	10.199	ng		98
13) 1,4-Dichlorobenzene	6.863	146	61319	10.451	ng		98
14) 1,2-Dichlorobenzene	7.016	146	57259	10.343	ng		97
15) Benzyl Alcohol	6.998	79	43771	9.936	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.122	45	57243	10.204	ng		94
17) 2-Methylphenol	7.110	107	42307	10.446	ng		97
18) Hexachloroethane	7.351	117	22224	10.174	ng		96
19) n-Nitroso-di-n-propyla...	7.251	70	38459	10.406	ng		99
20) 3+4-Methylphenols	7.269	107	57077	10.628	ng	#	84
22) Acetophenone	7.257	105	75049	10.046	ng		96
24) Nitrobenzene	7.428	77	61294	10.024	ng		100
25) Isophorone	7.669	82	100405	10.039	ng		99
26) 2-Nitrophenol	7.751	139	27623	9.808	ng		97
27) 2,4-Dimethylphenol	7.786	122	32852	9.988	ng		94
28) bis(2-Chloroethoxy)met...	7.875	93	61752	9.886	ng		98
29) 2,4-Dichlorophenol	8.004	162	46274	10.191	ng		98
30) 1,2,4-Trichlorobenzene	8.069	180	52790	10.141	ng		99
31) Naphthalene	8.145	128	168002	10.241	ng		99
32) Benzoic acid	7.898	122	25770	8.261	ng		98
33) 4-Chloroaniline	8.204	127	55948	10.269	ng		98
34) Hexachlorobutadiene	8.257	225	35099	10.022	ng		97
35) Caprolactam	8.557	113	13417	9.925	ng		98
36) 4-Chloro-3-methylphenol	8.692	107	51876	10.150	ng		97
37) 2-Methylnaphthalene	8.839	142	109525	10.093	ng		99
38) 1-Methylnaphthalene	8.939	142	110917	10.335	ng		99
40) 1,2,4,5-Tetrachloroben...	9.004	216	55018	9.320	ng		99
41) Hexachlorocyclopentadiene	8.986	237	8781	8.866	ng		99
43) 2,4,6-Trichlorophenol	9.127	196	32555	9.006	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140857.D
Acq On : 16 Dec 2024 13:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Dec 16 16:47:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

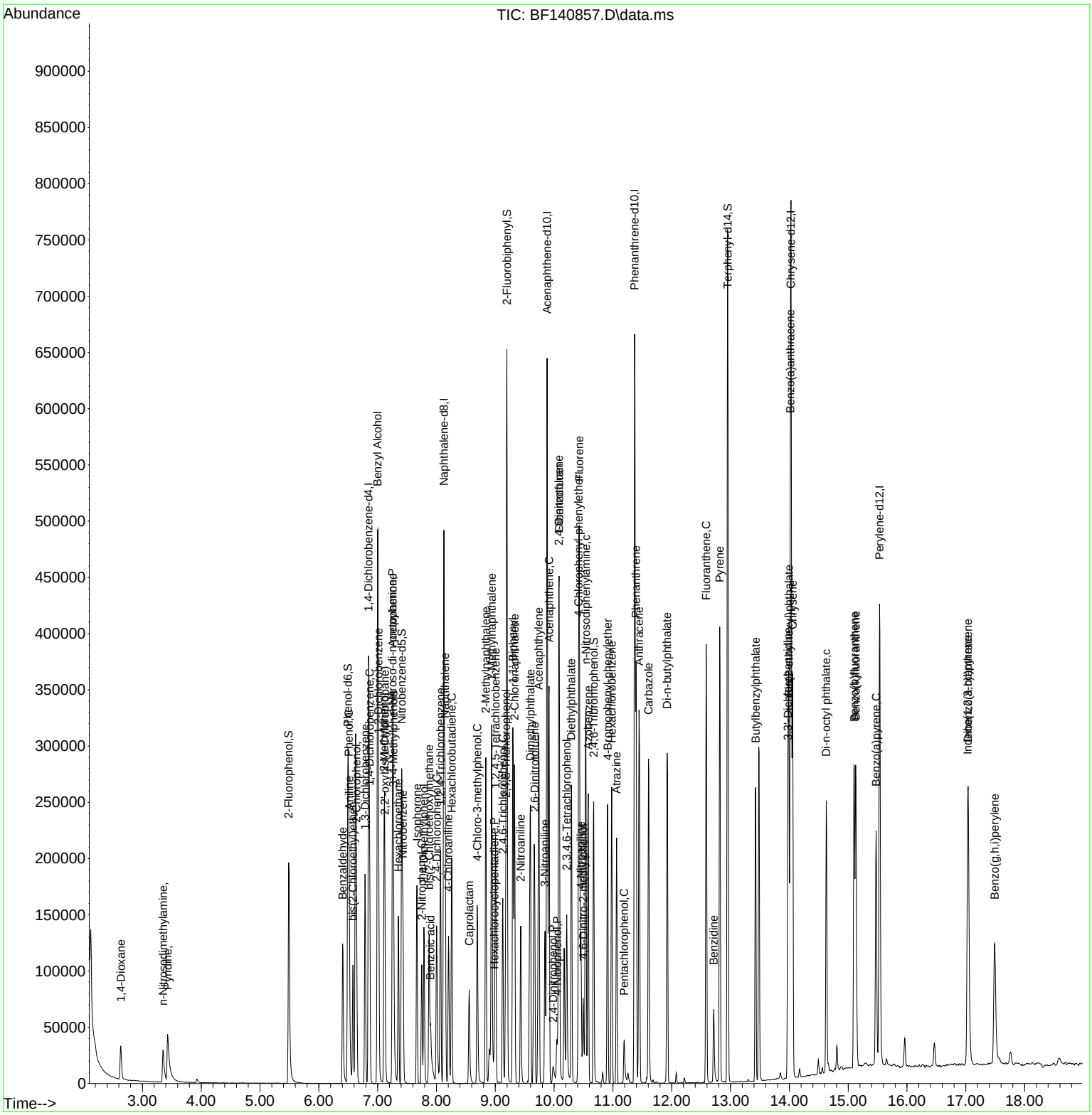
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.180	196	35030	8.817	ng	99
46) 1,1'-Biphenyl	9.298	154	145227	9.509	ng	99
47) 2-Chloronaphthalene	9.327	162	111077	9.507	ng	99
48) 2-Nitroaniline	9.433	65	33225	9.416	ng	98
49) Acenaphthylene	9.739	152	174905	10.187	ng	98
50) Dimethylphthalate	9.598	163	131257	9.693	ng	99
51) 2,6-Dinitrotoluene	9.669	165	30431	9.831	ng	97
52) Acenaphthene	9.916	154	114273	10.419	ng	99
53) 3-Nitroaniline	9.845	138	30367	9.885	ng	100
54) 2,4-Dinitrophenol	9.986	184	8488	11.701	ng	95
55) Dibenzofuran	10.086	168	180108	10.598	ng	99
56) 4-Nitrophenol	10.051	139	8781m	9.461	ng	
57) 2,4-Dinitrotoluene	10.080	165	42109	10.339	ng	99
58) Fluorene	10.427	166	146155	10.424	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.216	232	29950	9.251	ng	94
60) Diethylphthalate	10.292	149	142484	10.147	ng	100
61) 4-Chlorophenyl-phenyle...	10.416	204	72010	10.224	ng	99
62) 4-Nitroaniline	10.457	138	31962	9.956	ng	98
63) Azobenzene	10.580	77	135524	10.267	ng	98
65) 4,6-Dinitro-2-methylph...	10.498	198	17756	8.752	ng	97
66) n-Nitrosodiphenylamine	10.539	169	121500	11.038	ng	100
67) 4-Bromophenyl-phenylether	10.910	248	44385	11.082	ng	98
68) Hexachlorobenzene	10.980	284	50135	11.040	ng	99
69) Atrazine	11.063	200	36472	11.864	ng	100
70) Pentachlorophenol	11.192	266	11171m	6.725	ng	
71) Phenanthrene	11.392	178	193504	10.510	ng	99
72) Anthracene	11.445	178	190407	10.502	ng	99
73) Carbazole	11.604	167	182199	10.259	ng	100
74) Di-n-butylphthalate	11.921	149	215903	10.359	ng	99
75) Fluoranthene	12.586	202	231038	10.896	ng	100
77) Benzidine	12.716	184	45074	7.818	ng	99
78) Pyrene	12.815	202	242761	9.663	ng	99
80) Butylbenzylphthalate	13.427	149	86987	9.411	ng	98
81) Benzo(a)anthracene	14.015	228	208127	10.395	ng	99
82) 3,3'-Dichlorobenzidine	13.974	252	60368	9.994	ng	98
83) Chrysene	14.057	228	181387	9.963	ng	99
84) Bis(2-ethylhexyl)phtha...	13.992	149	113963	9.562	ng	100
85) Di-n-octyl phthalate	14.627	149	165198	9.161	ng	99
87) Indeno(1,2,3-cd)pyrene	17.033	276	138792	9.405	ng	99
88) Benzo(b)fluoranthene	15.104	252	173313	10.558	ng	99
89) Benzo(k)fluoranthene	15.127	252	147840	10.499	ng	99
90) Benzo(a)pyrene	15.474	252	128194	9.973	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	116533	9.532	ng	99
92) Benzo(g,h,i)perylene	17.492	276	114976	9.240	ng	99

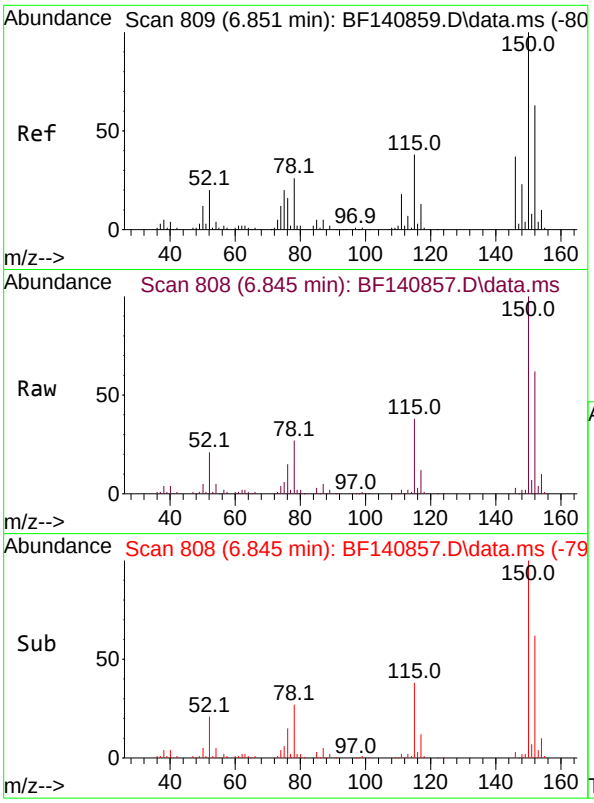
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140857.D
Acq On : 16 Dec 2024 13:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Dec 16 16:47:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



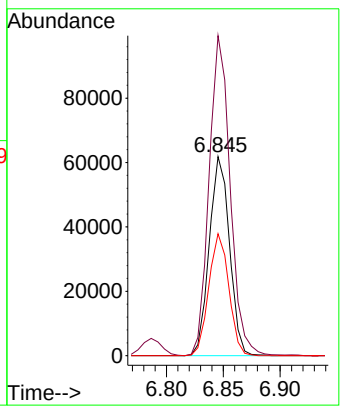


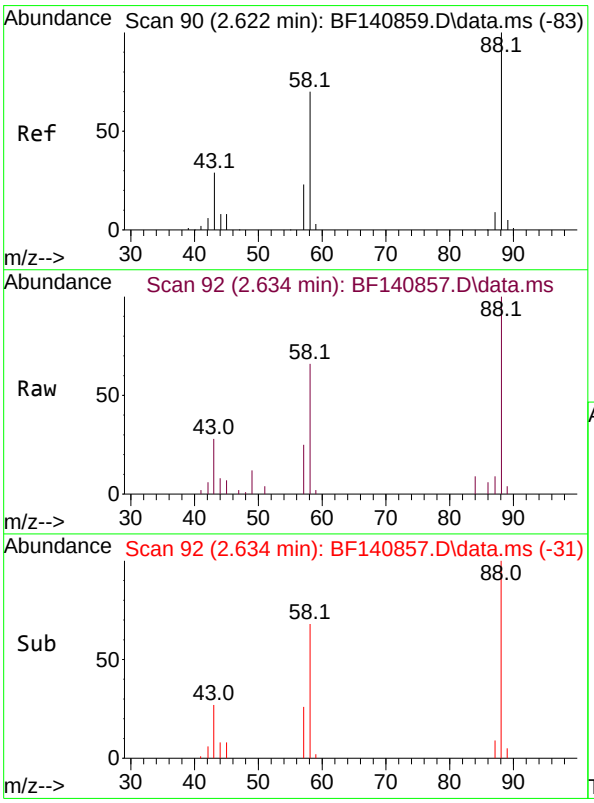
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 76578

Ion	Ratio	Lower	Upper
152	100		
150	160.8	127.9	191.9
115	61.3	48.0	72.0

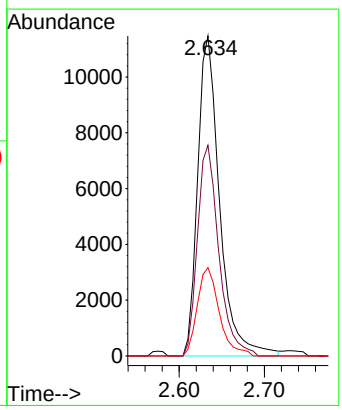


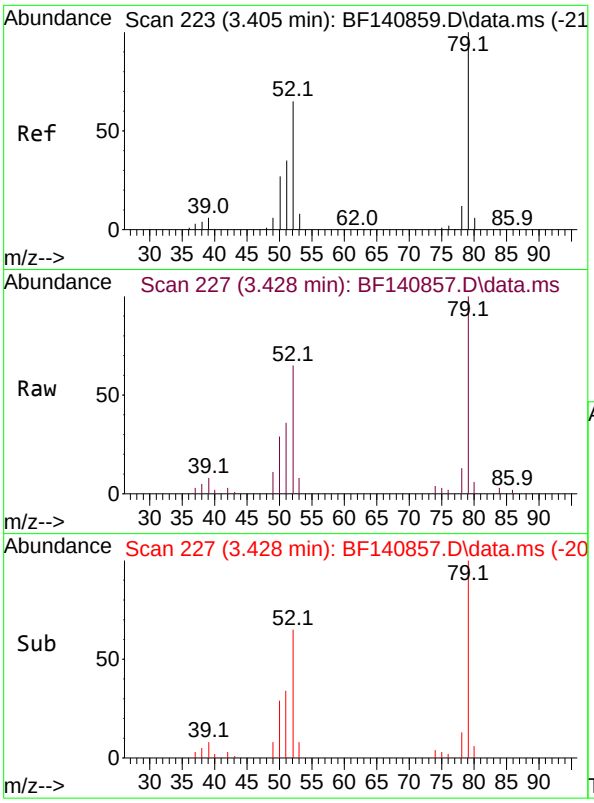


#2
1,4-Dioxane
Concen: 10.244 ng
RT: 2.634 min Scan# 92
Delta R.T. 0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 88 Resp: 20526

Ion	Ratio	Lower	Upper
88	100		
58	64.0	55.8	83.8
43	27.6	22.7	34.1



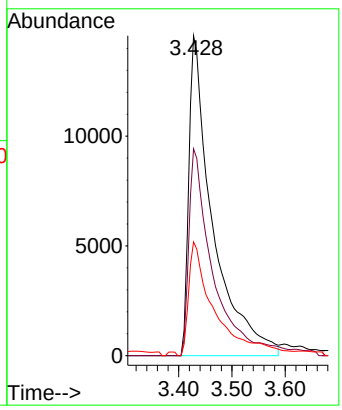


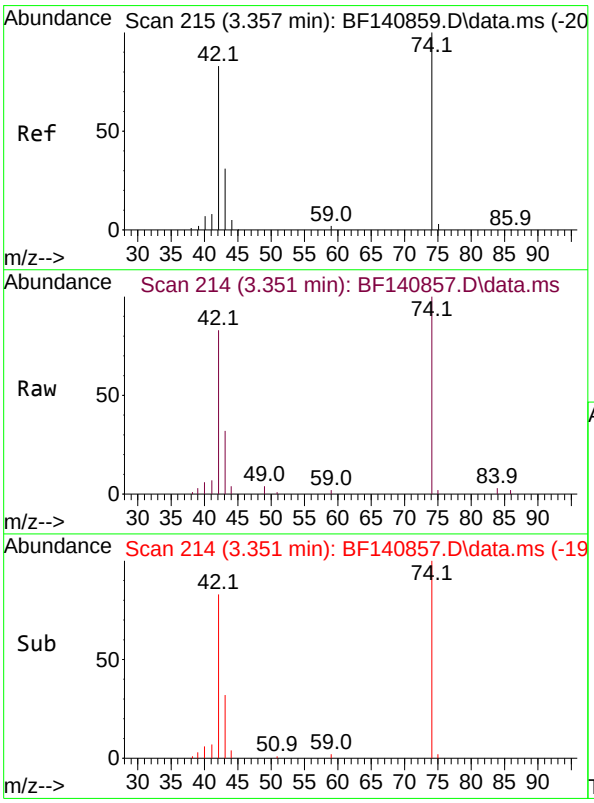
#3
Pyridine
Concen: 9.756 ng
RT: 3.428 min Scan# 21
Delta R.T. 0.023 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 45270

Ion	Ratio	Lower	Upper
79	100		
52	64.7	51.7	77.5
51	35.6	28.2	42.4

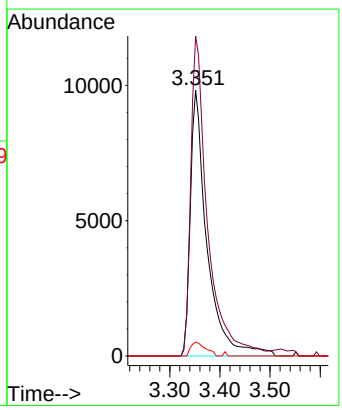


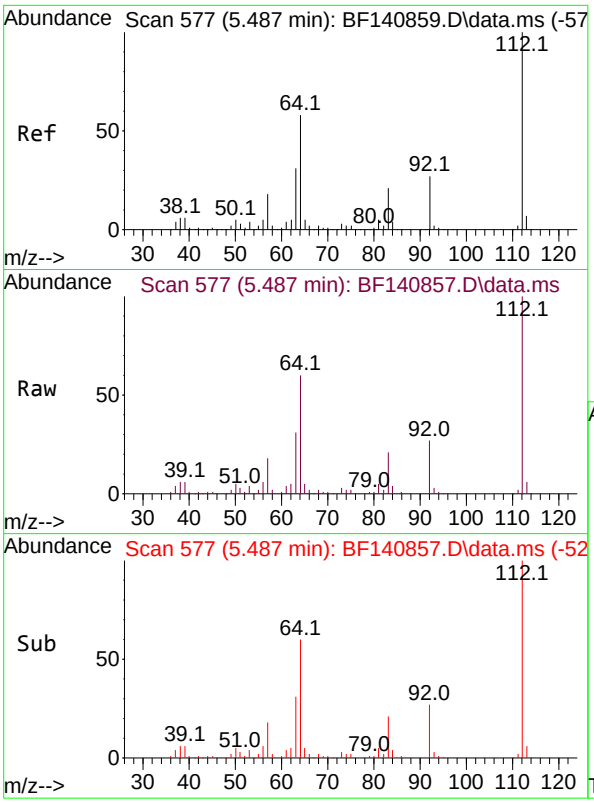


#4
n-Nitrosodimethylamine
Concen: 9.699 ng
RT: 3.351 min Scan# 214
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 42 Resp: 22689

Ion	Ratio	Lower	Upper
42	100		
74	120.4	96.9	145.3
44	5.2	4.4	6.6



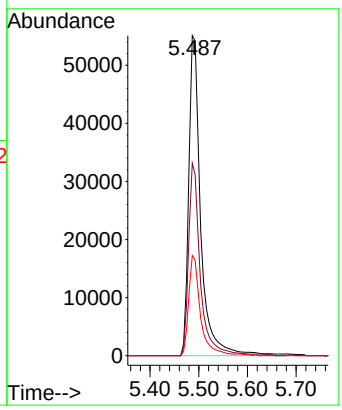


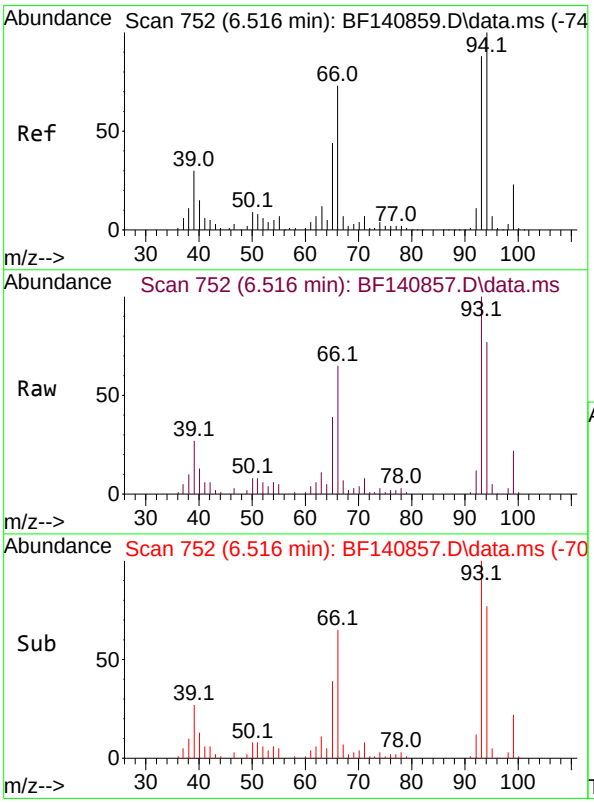
#5
2-Fluorophenol
Concen: 20.344 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 94639

Ion	Ratio	Lower	Upper
112	100		
64	60.1	46.1	69.1
63	31.3	24.9	37.3

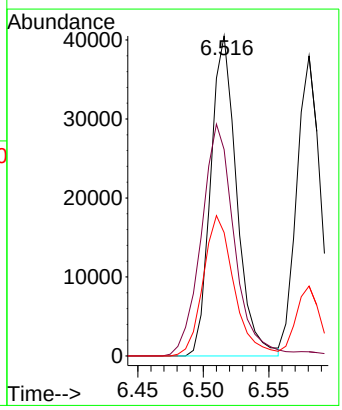


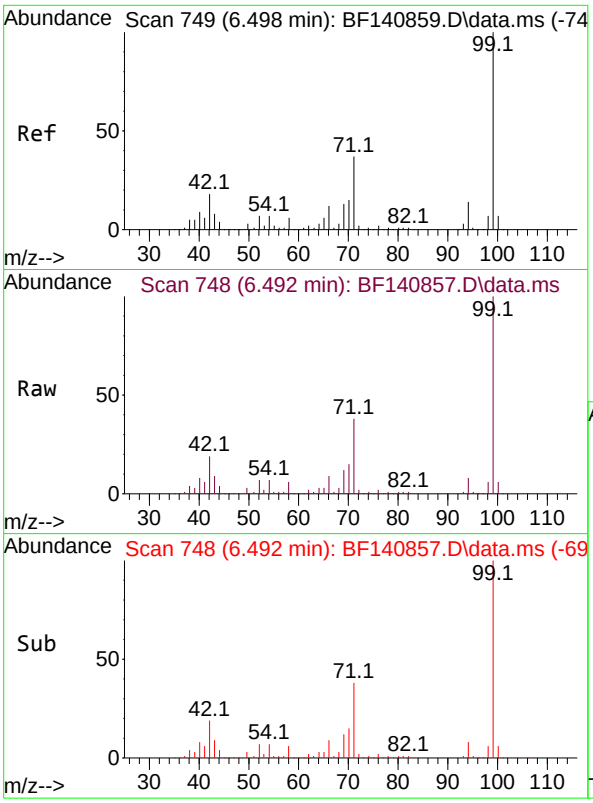


#6
Aniline
Concen: 10.620 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 93 Resp: 55946

Ion	Ratio	Lower	Upper
93	100		
66	64.5	67.0	100.4#
65	38.5	40.4	60.6#



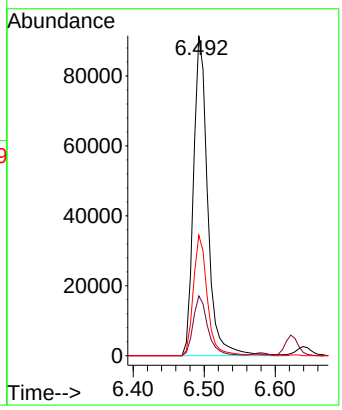


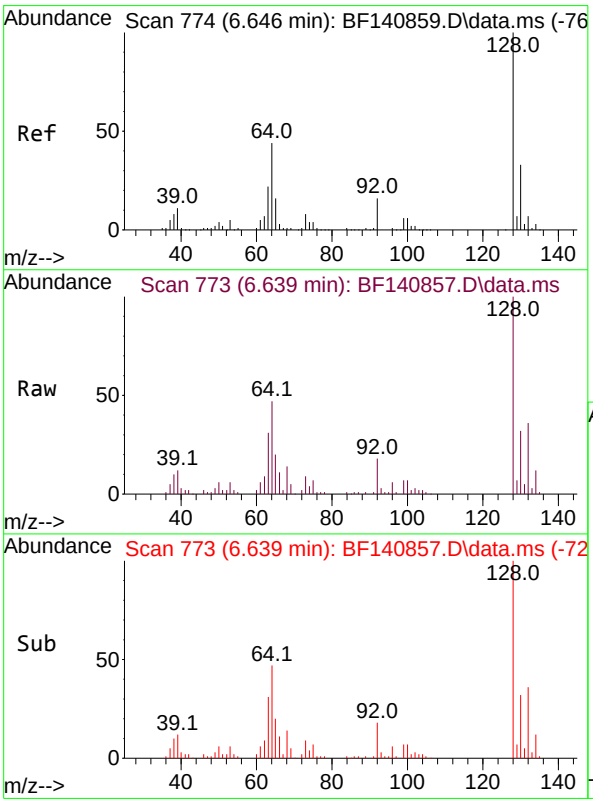
#7
Phenol-d6
Concen: 20.645 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 127200

Ion	Ratio	Lower	Upper
99	100		
42	18.7	14.3	21.5
71	37.6	29.9	44.9

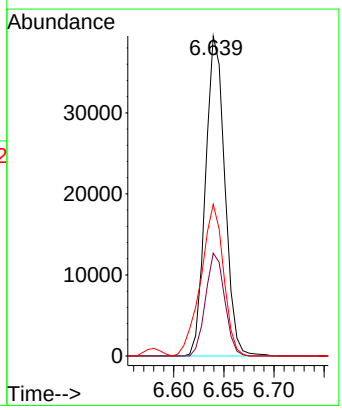


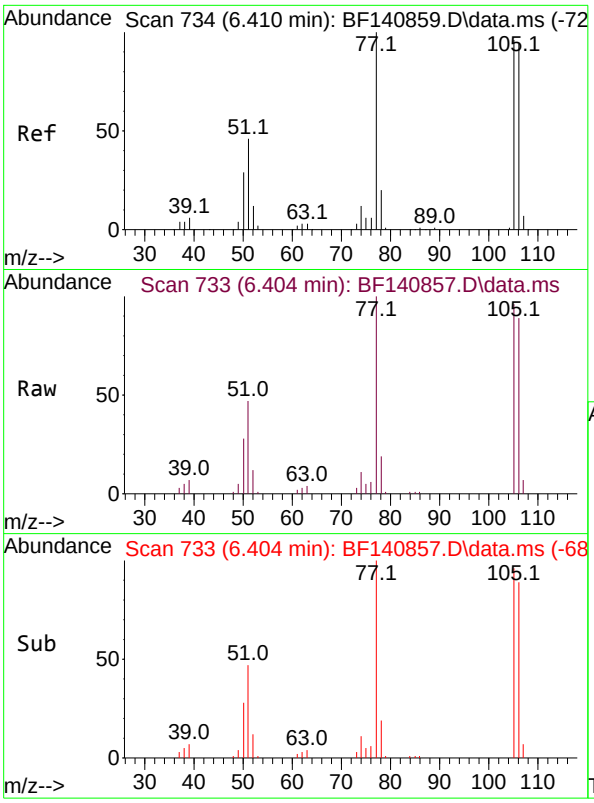


#8
2-Chlorophenol
Concen: 10.411 ng
RT: 6.639 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:128 Resp: 52812

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.9	52.9
64	47.4	24.3	64.3



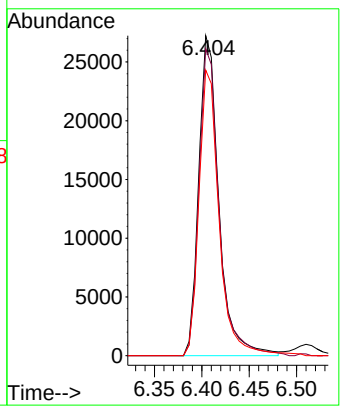


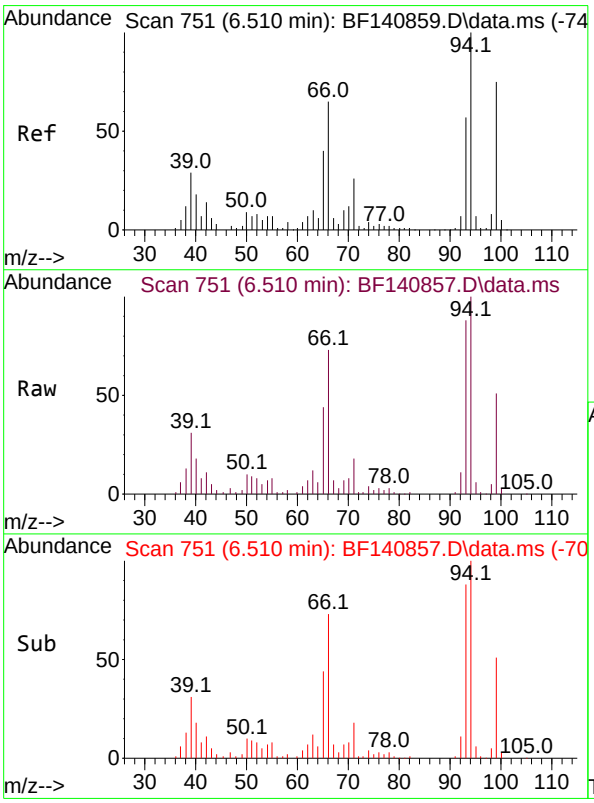
#9
Benzaldehyde
Concen: 11.792 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 40257

Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.8	115.8
106	89.3	74.1	114.1

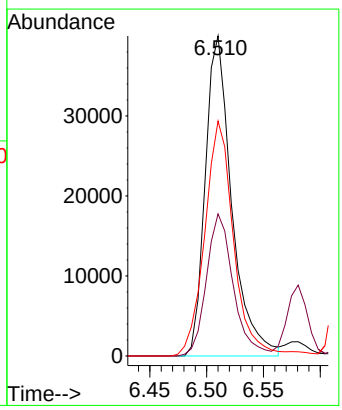


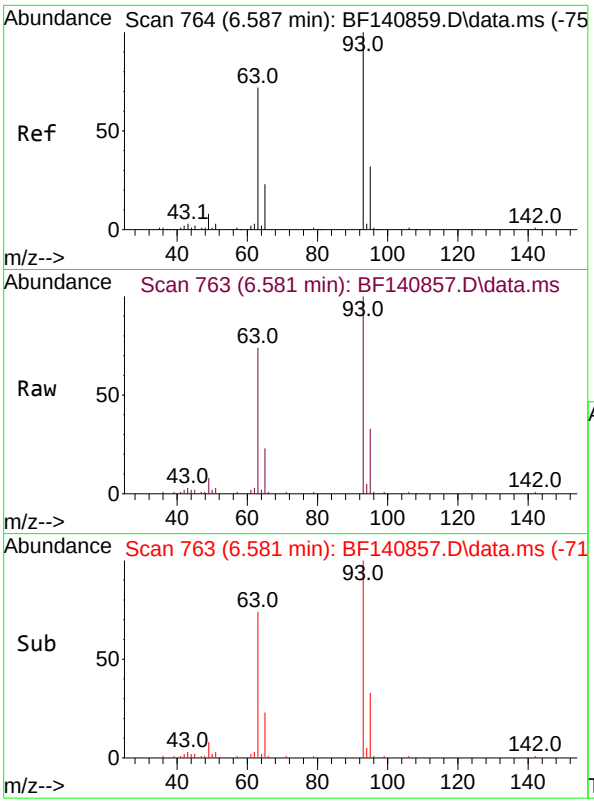


#10
Phenol
Concen: 10.135 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 94 Resp: 64718

Ion	Ratio	Lower	Upper
94	100		
65	44.4	19.9	59.9
66	73.4	45.6	85.6



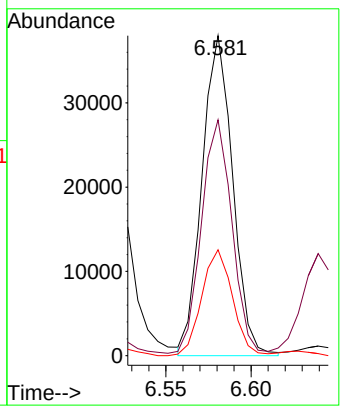


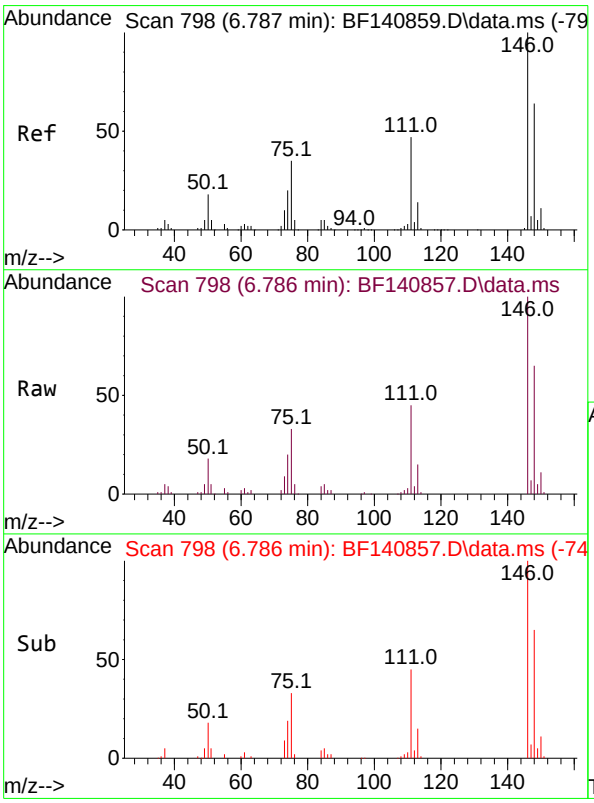
#11
bis(2-Chloroethyl)ether
Concen: 9.984 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 47546

Ion	Ratio	Lower	Upper
93	100		
63	73.7	51.0	91.0
95	33.1	12.0	52.0

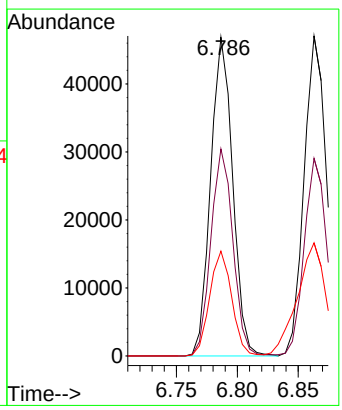


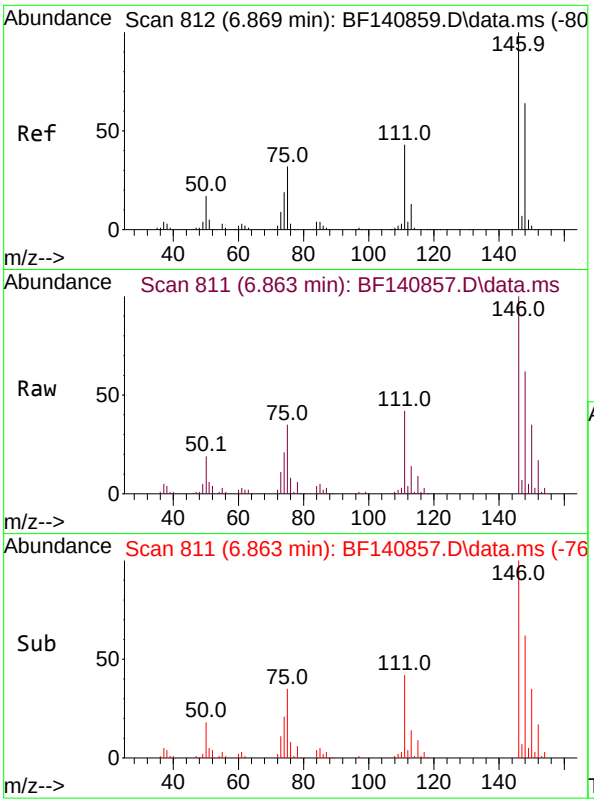


#12
1,3-Dichlorobenzene
Concen: 10.199 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:146 Resp: 58952

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.0	76.6
75	32.9	28.1	42.1



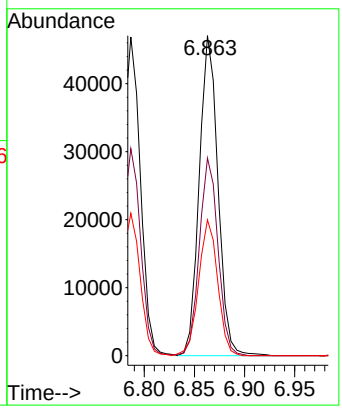


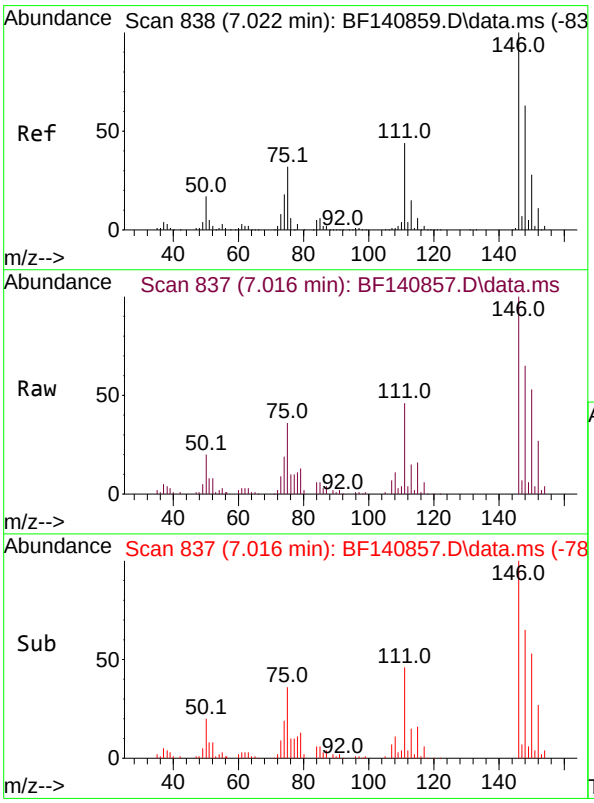
#13
1,4-Dichlorobenzene
Concen: 10.451 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 61319

Ion	Ratio	Lower	Upper
146	100		
148	61.8	51.3	76.9
111	42.5	34.4	51.6

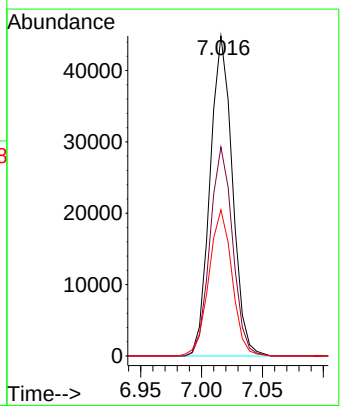


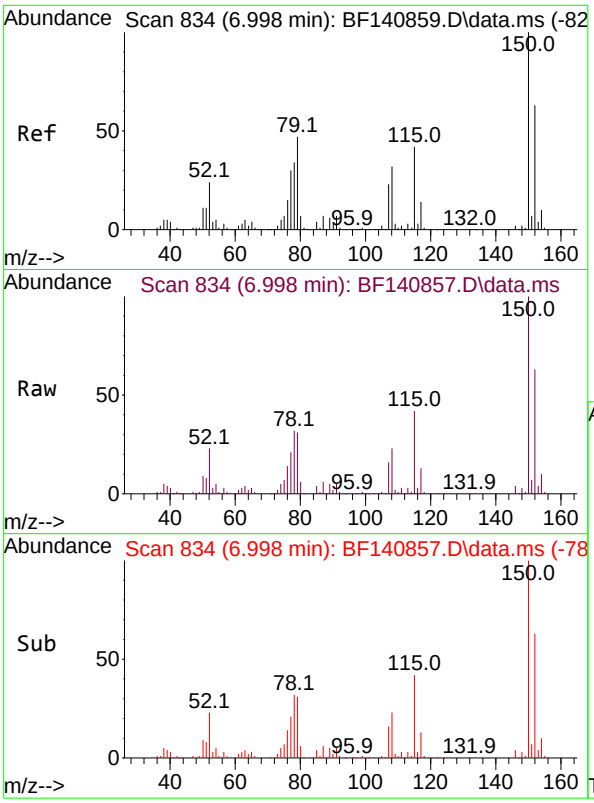


#14
1,2-Dichlorobenzene
Concen: 10.343 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:146 Resp: 57259

Ion	Ratio	Lower	Upper
146	100		
148	65.3	50.0	75.0
111	45.6	35.6	53.4



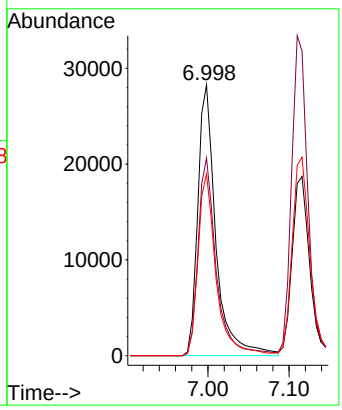


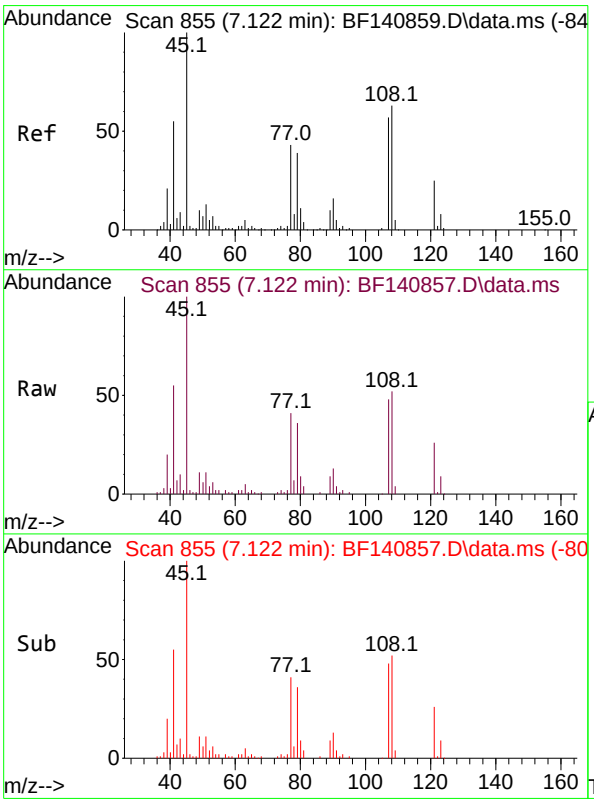
#15
Benzyl Alcohol
Concen: 9.936 ng
RT: 6.998 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 43771

Ion	Ratio	Lower	Upper
79	100		
108	73.1	55.1	82.7
77	67.2	50.6	76.0

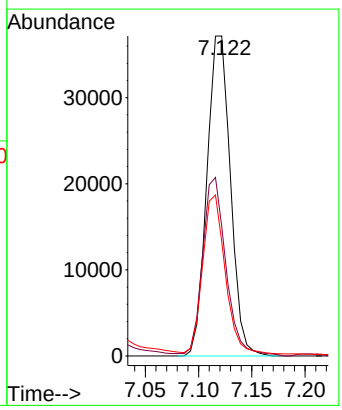


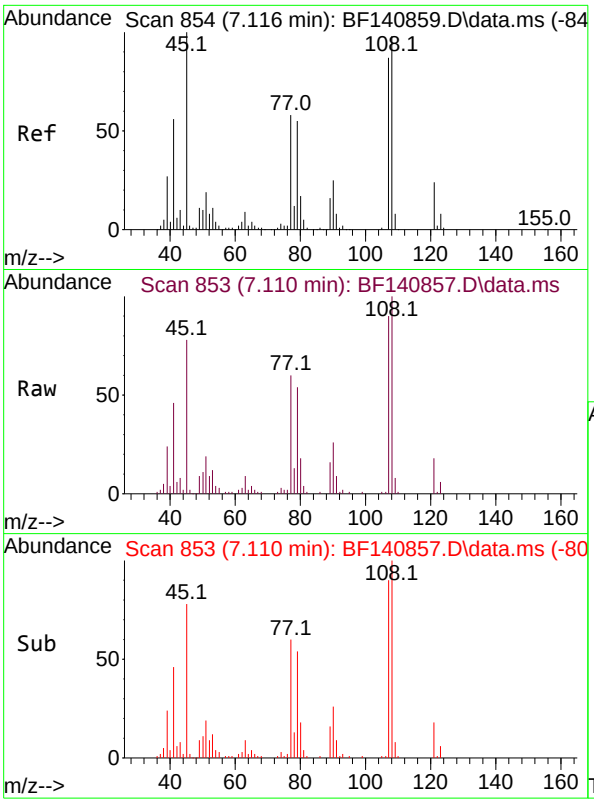


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.204 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 45 Resp: 57243

Ion	Ratio	Lower	Upper
45	100		
77	40.5	23.3	63.3
79	35.8	20.0	60.0



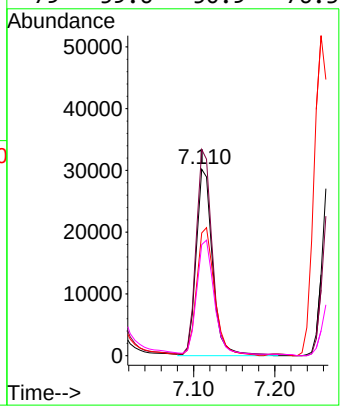


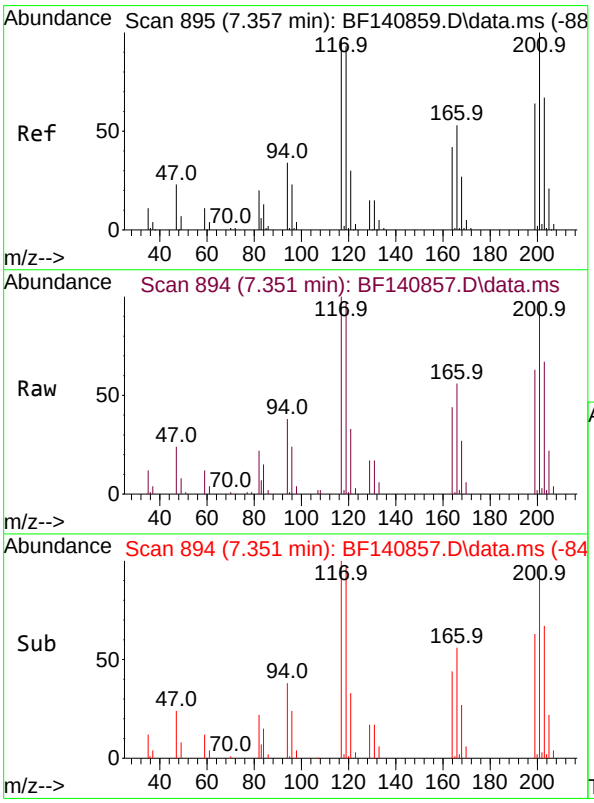
#17
2-Methylphenol
Concen: 10.446 ng
RT: 7.110 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 42307

Ion	Ratio	Lower	Upper
107	100		
108	110.7	90.2	135.4
77	65.9	53.8	80.6
79	59.6	50.9	76.3

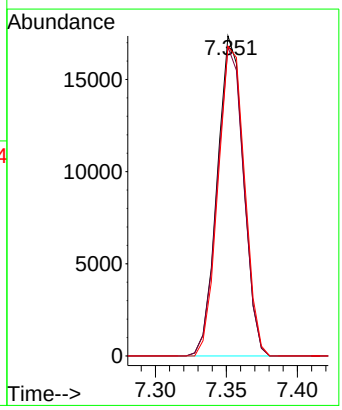


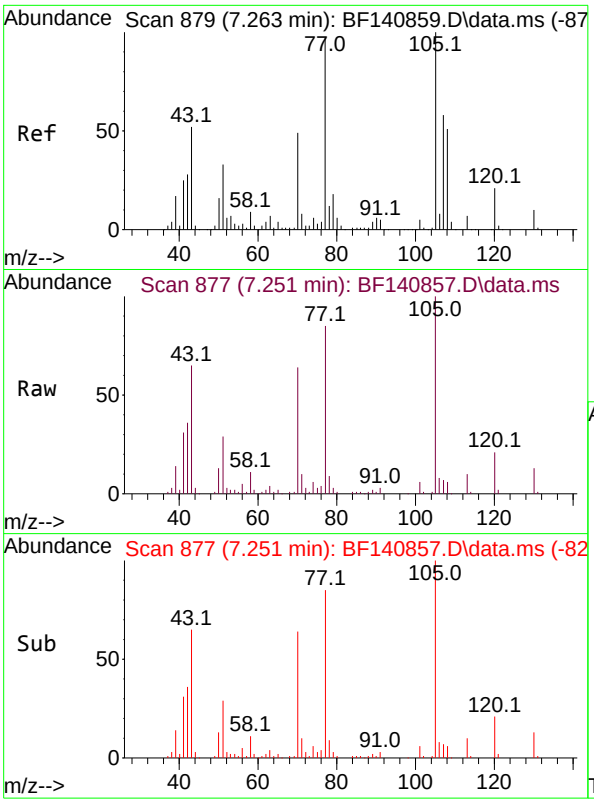


#18
Hexachloroethane
Concen: 10.174 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:117 Resp: 22224

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.4	116.0
201	96.8	83.4	125.0



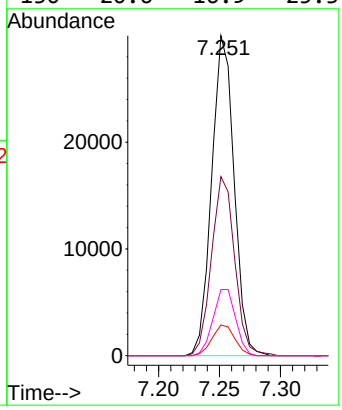


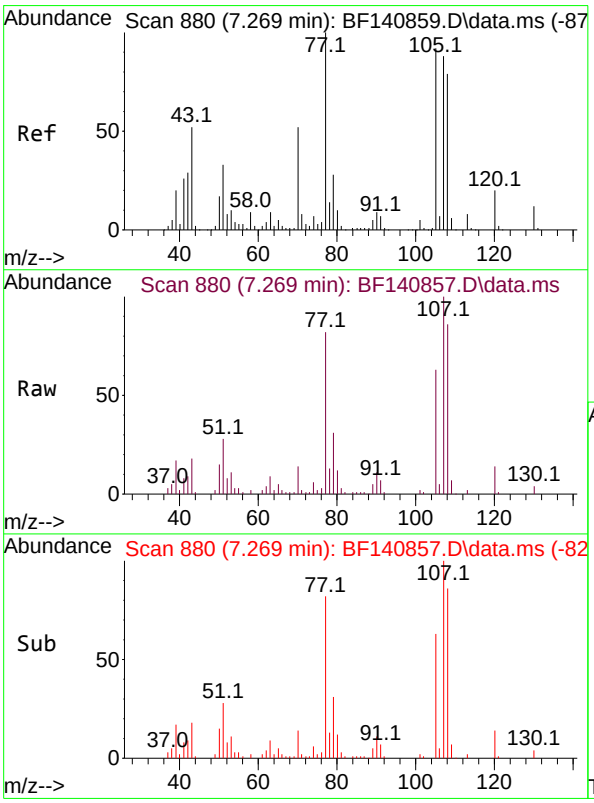
#19
n-Nitroso-di-n-propylamine
Concen: 10.406 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 38459

Ion	Ratio	Lower	Upper
70	100		
42	55.9	45.3	67.9
101	9.6	8.0	12.0
130	20.6	16.9	25.3

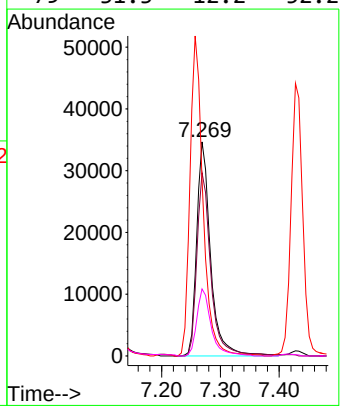


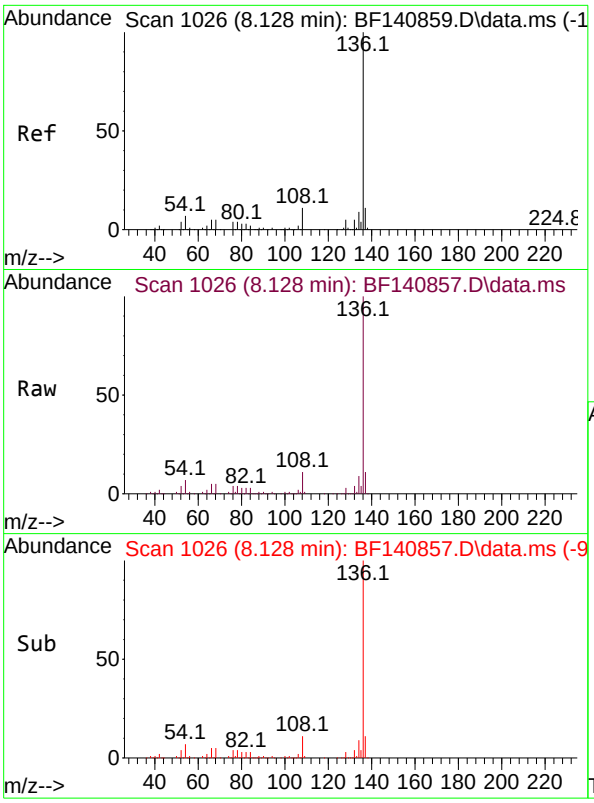


#20
3+4-Methylphenols
Concen: 10.628 ng
RT: 7.269 min Scan# 880
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:107 Resp: 57077

Ion	Ratio	Lower	Upper
107	100		
108	85.6	70.1	110.1
77	82.3	94.4	134.4#
79	31.3	12.2	52.2



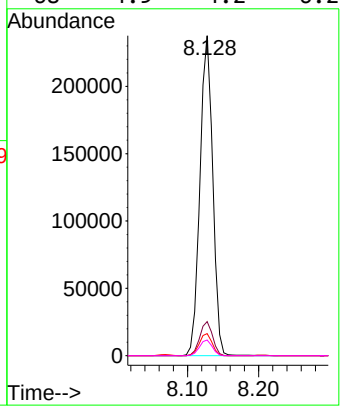


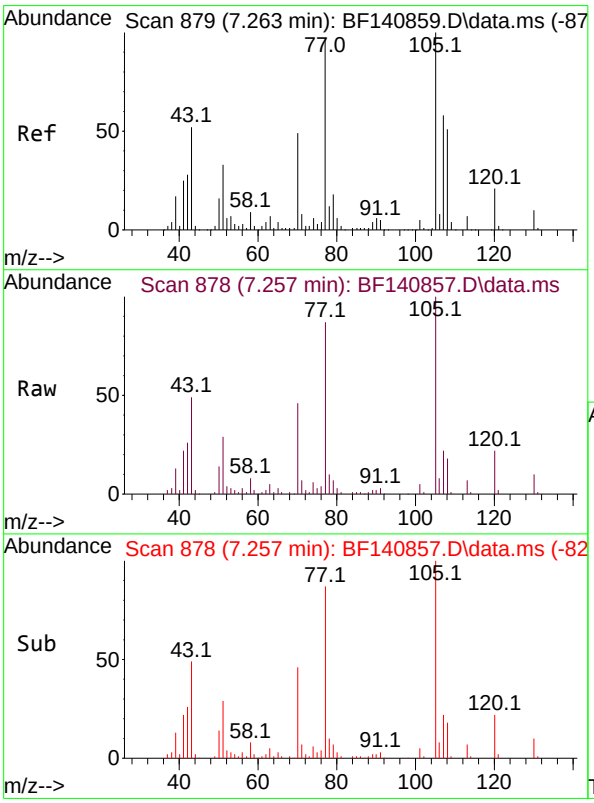
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 298630

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.9	5.6	8.4
68	4.9	4.2	6.2

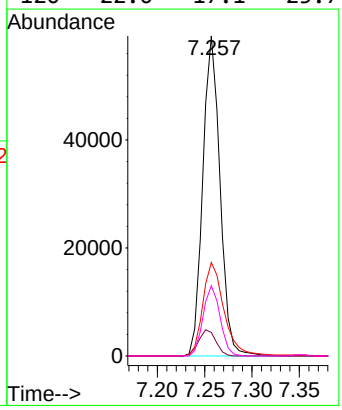


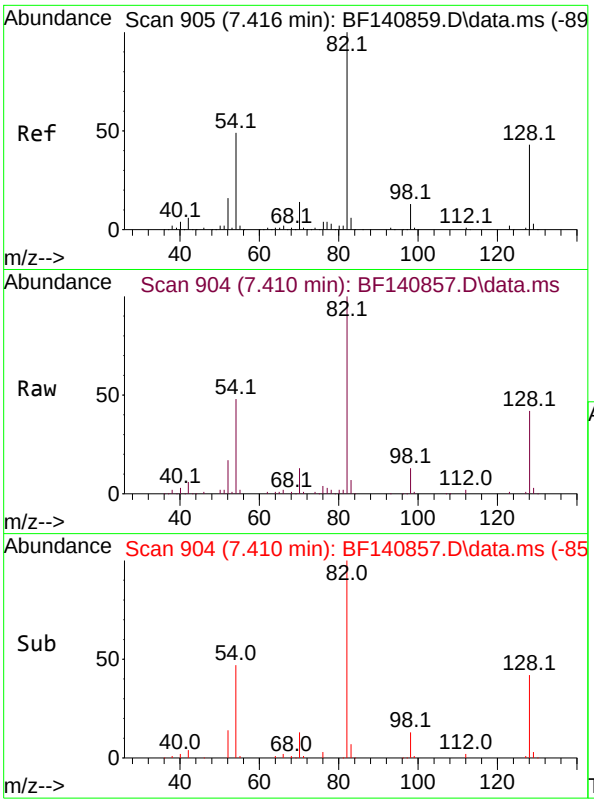


#22
Acetophenone
Concen: 10.046 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:105 Resp: 75049

Ion	Ratio	Lower	Upper
105	100		
71	7.3	6.2	9.4
51	29.2	26.3	39.5
120	22.0	17.1	25.7



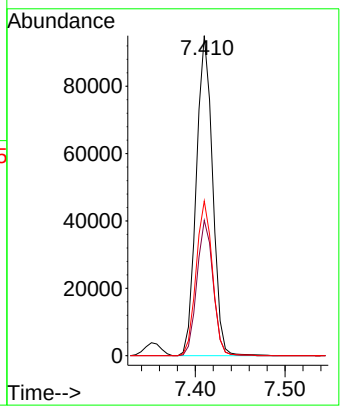


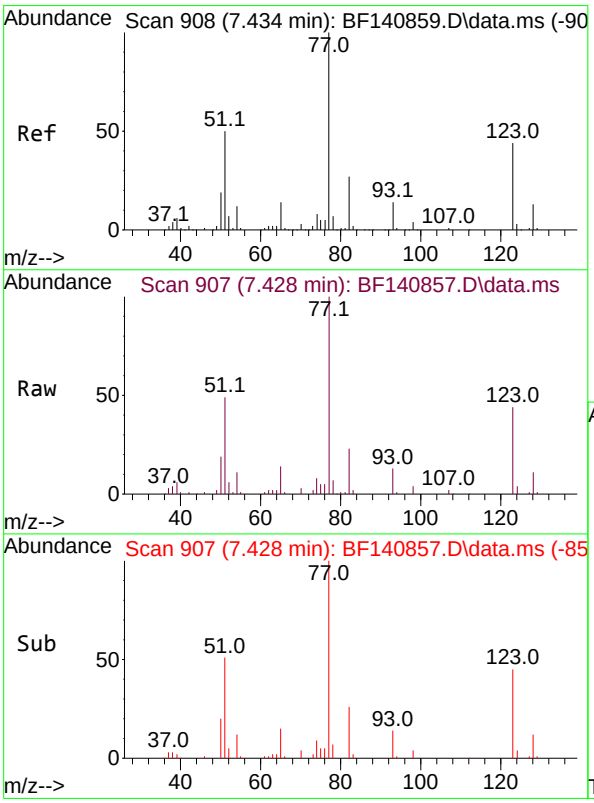
#23
Nitrobenzene-d5
Concen: 20.048 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 119665

Ion	Ratio	Lower	Upper
82	100		
128	42.3	34.4	51.6
54	48.3	38.8	58.2

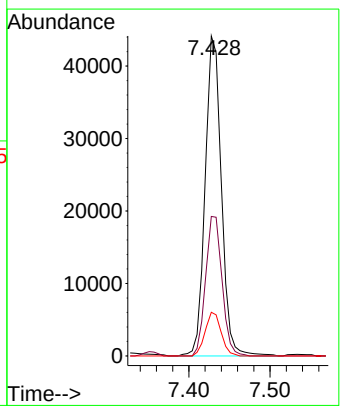


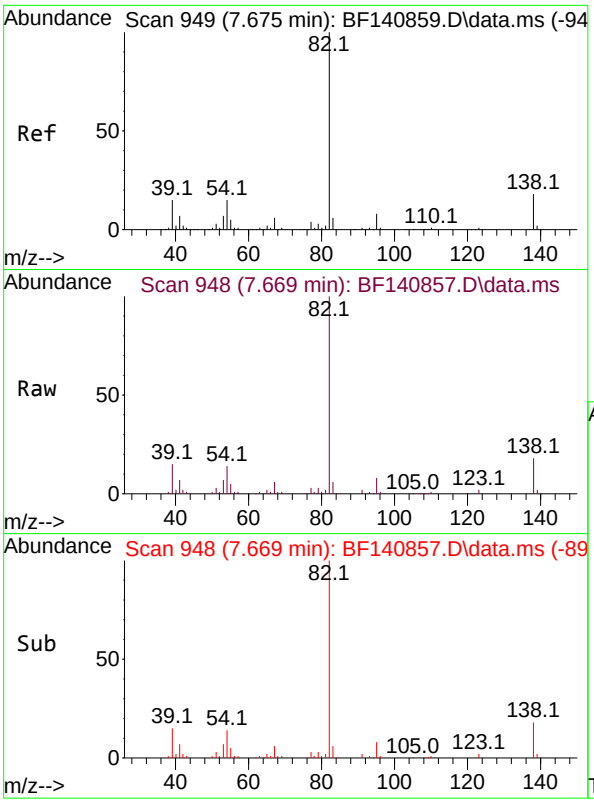


#24
Nitrobenzene
Concen: 10.024 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 77 Resp: 61294

Ion	Ratio	Lower	Upper
77	100		
123	43.6	35.0	52.4
65	13.7	11.4	17.0



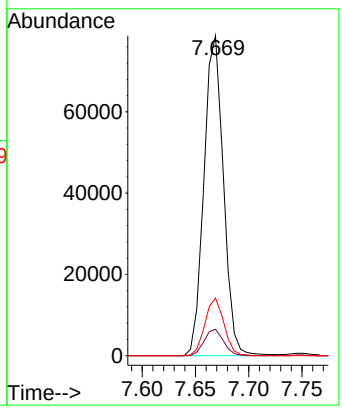


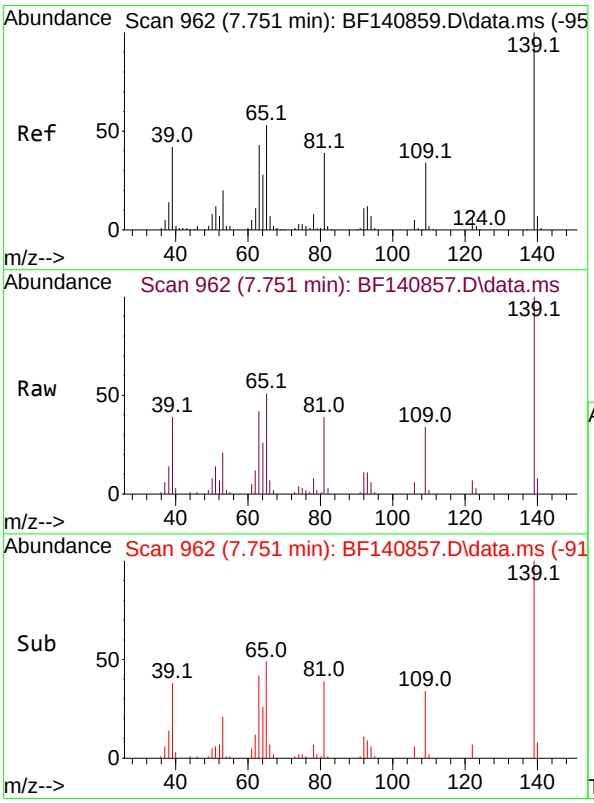
#25
Isophorone
Concen: 10.039 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 100405

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.3	9.5
138	18.0	14.1	21.1

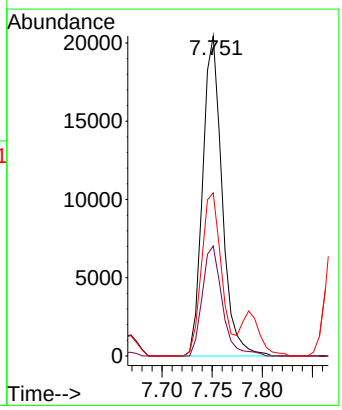


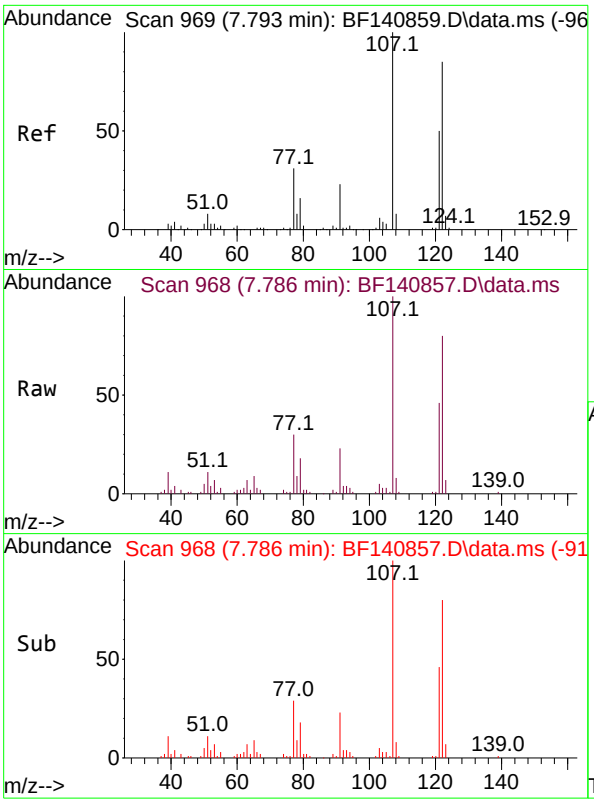


#26
2-Nitrophenol
Concen: 9.808 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:139 Resp: 27623

Ion	Ratio	Lower	Upper
139	100		
109	34.3	26.9	40.3
65	51.0	42.6	64.0



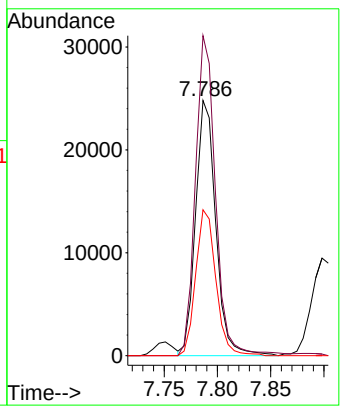


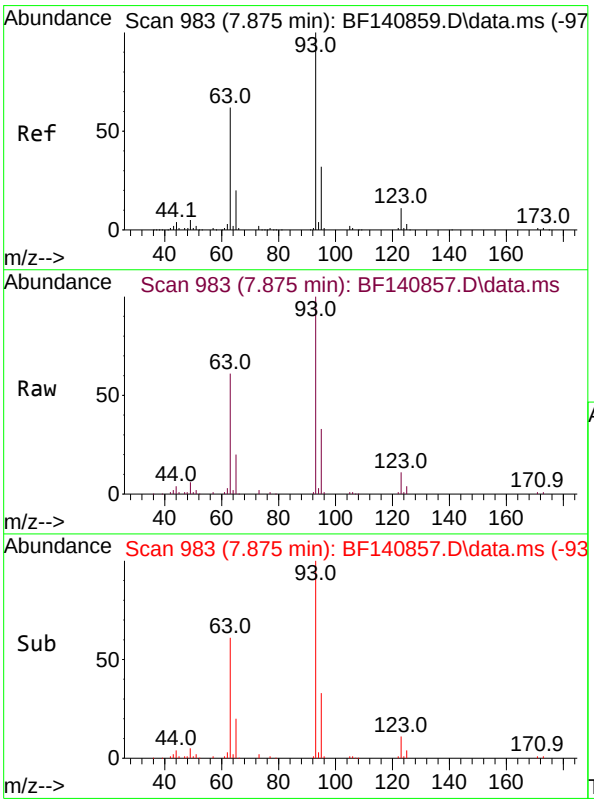
#27
2,4-Dimethylphenol
Concen: 9.988 ng
RT: 7.786 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 32852

Ion	Ratio	Lower	Upper
122	100		
107	125.4	92.6	139.0
121	57.2	45.8	68.8

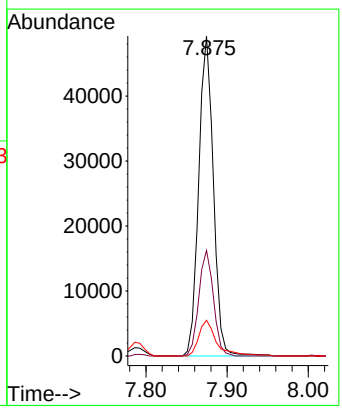


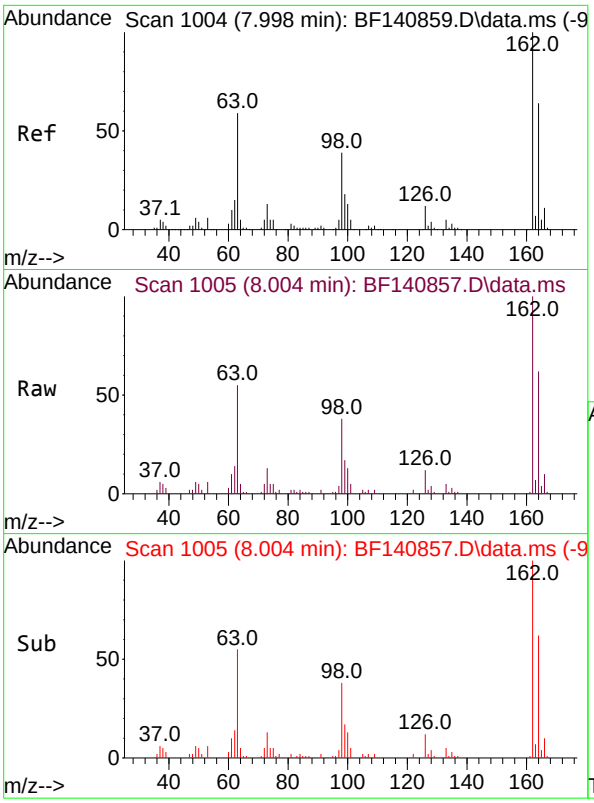


#28
bis(2-Chloroethoxy)methane
Concen: 9.886 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 93 Resp: 61752

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.3	37.9
123	11.2	8.6	13.0



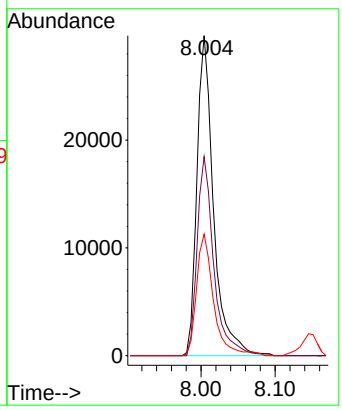


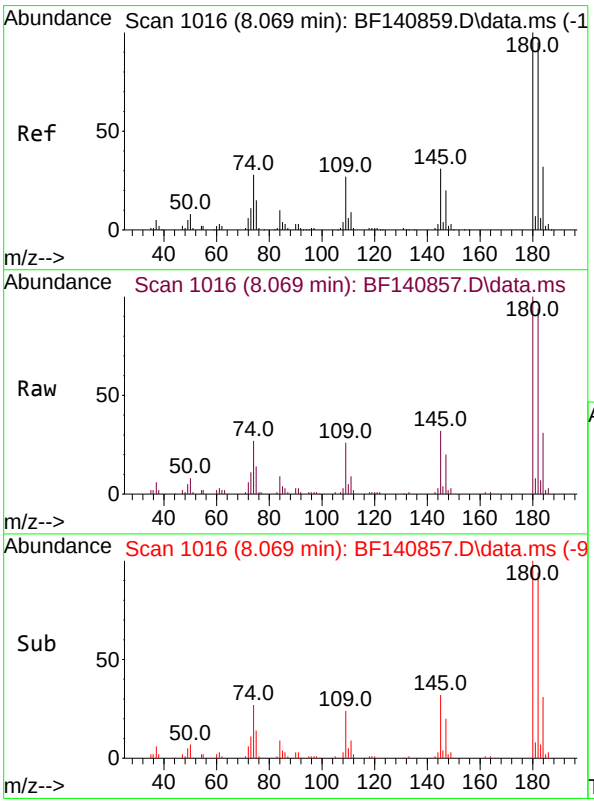
#29
2,4-Dichlorophenol
Concen: 10.191 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 46274

Ion	Ratio	Lower	Upper
162	100		
164	62.2	43.7	83.7
98	38.0	18.6	58.6

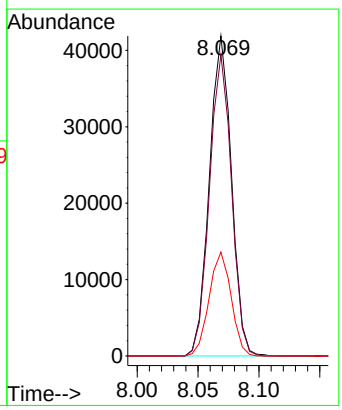


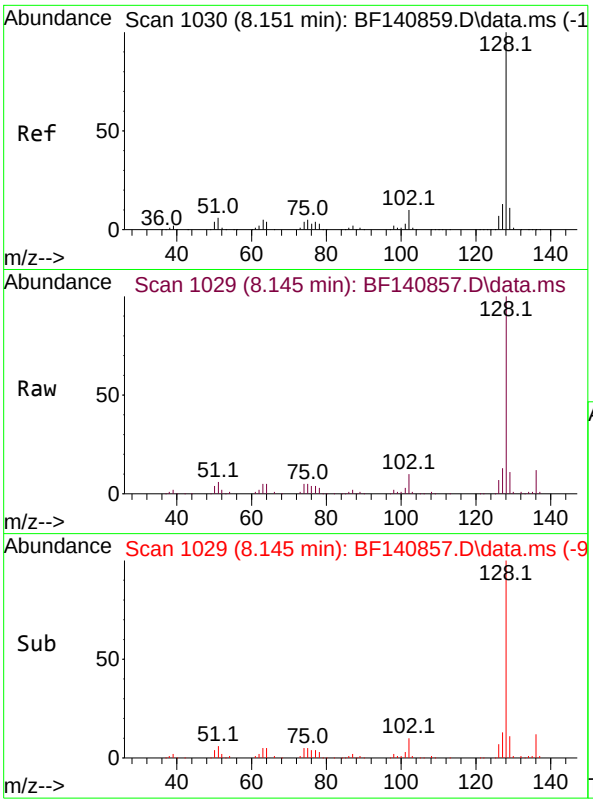


#30
1,2,4-Trichlorobenzene
Concen: 10.141 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:180 Resp: 52790

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.8	113.6
145	32.4	25.2	37.8



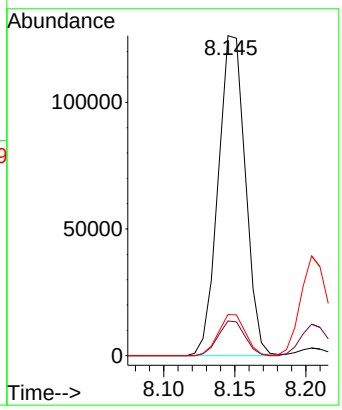


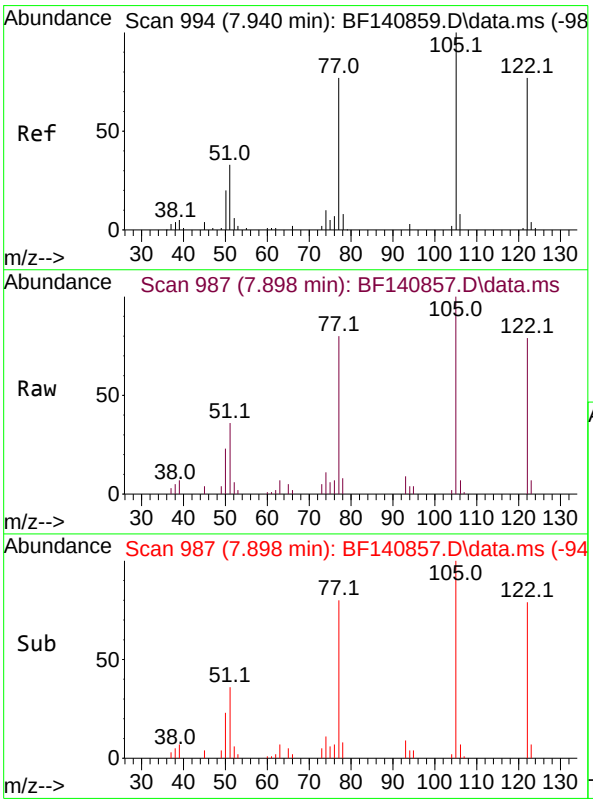
#31
Naphthalene
Concen: 10.241 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 168002

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	12.8	10.6	16.0

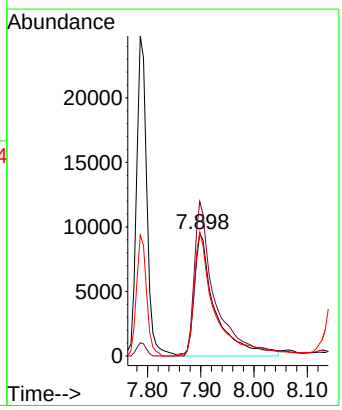


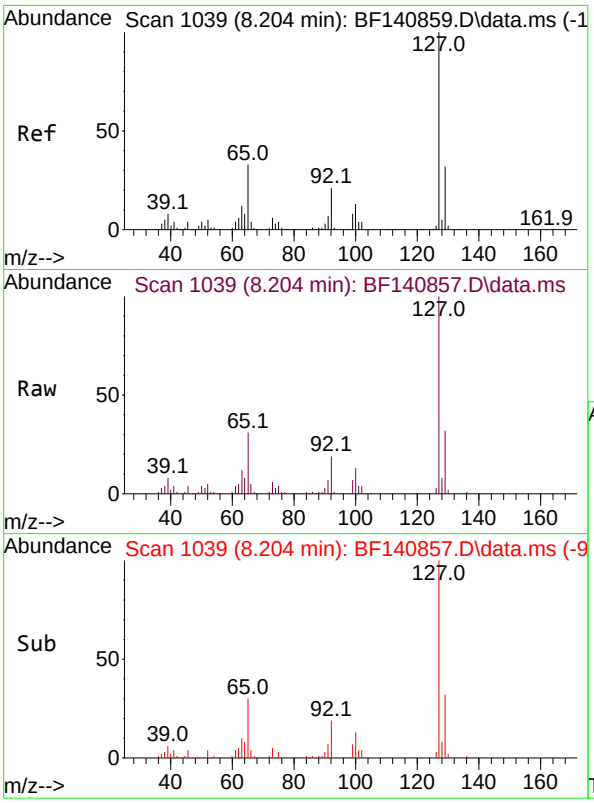


#32
Benzoic acid
Concen: 8.261 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.042 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:122 Resp: 25770

Ion	Ratio	Lower	Upper
122	100		
105	126.2	108.3	148.3
77	101.3	78.8	118.8



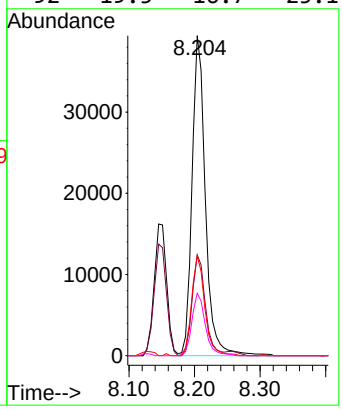


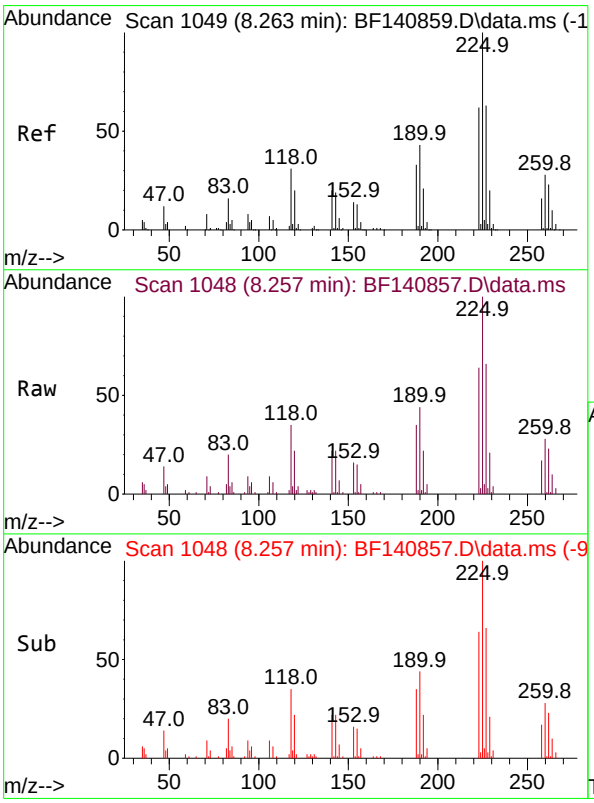
#33
4-Chloroaniline
Concen: 10.269 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 55948

Ion	Ratio	Lower	Upper
127	100		
129	31.5	26.0	39.0
65	31.2	26.0	39.0
92	19.5	16.7	25.1

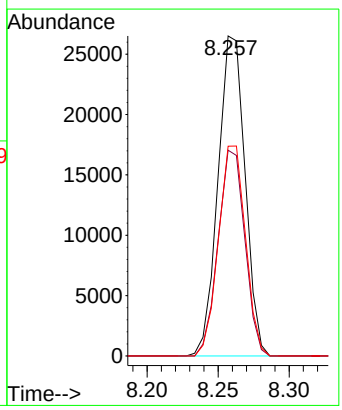


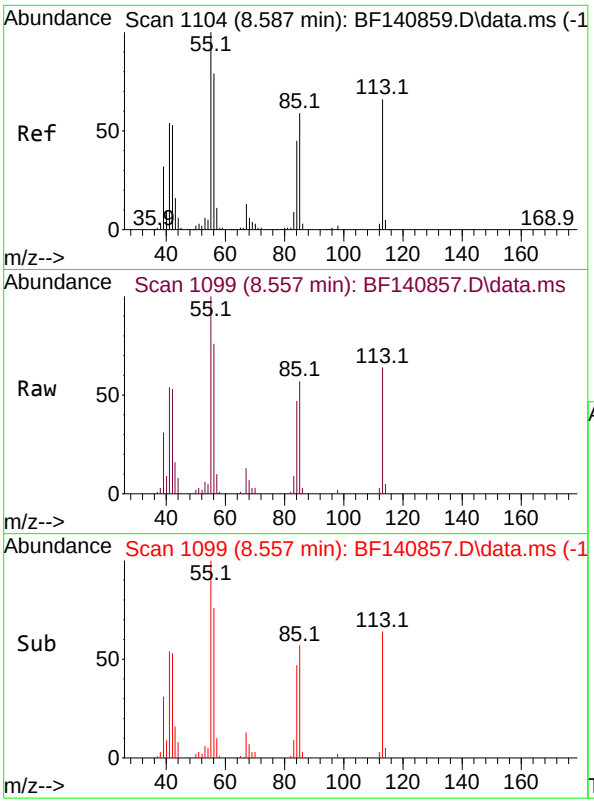


#34
Hexachlorobutadiene
Concen: 10.022 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:225 Resp: 35099

Ion	Ratio	Lower	Upper
225	100		
223	64.3	49.6	74.4
227	65.5	50.7	76.1



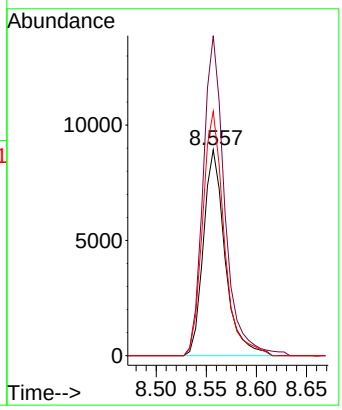


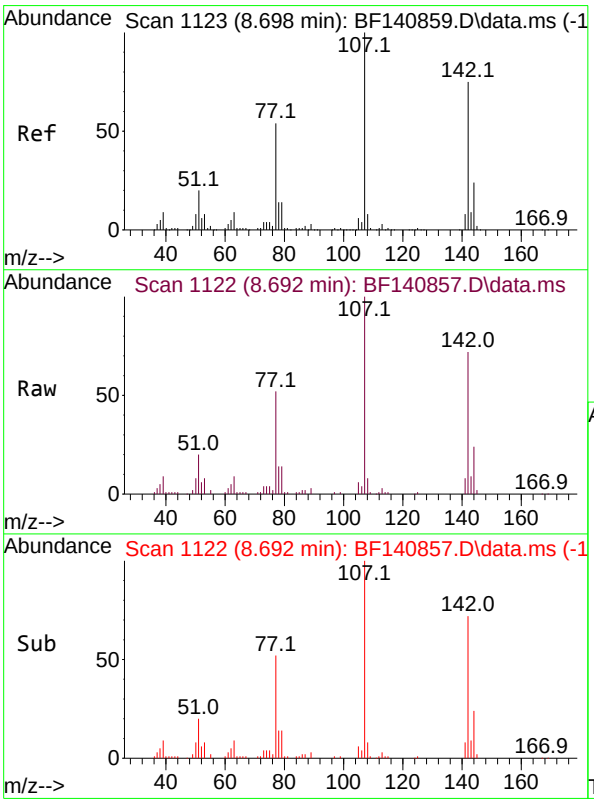
#35
Caprolactam
Concen: 9.925 ng
RT: 8.557 min Scan# 1
Delta R.T. -0.030 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 13417

Ion	Ratio	Lower	Upper
113	100		
55	155.4	132.3	172.3
56	118.6	100.3	140.3

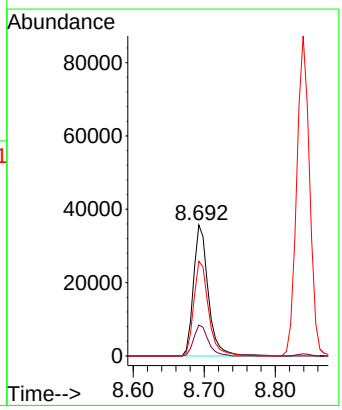


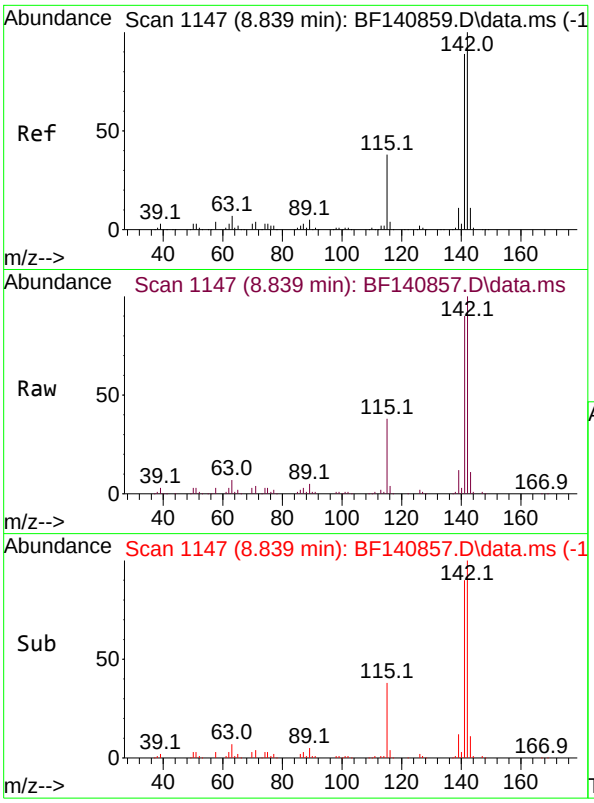


#36
4-Chloro-3-methylphenol
Concen: 10.150 ng
RT: 8.692 min Scan# 1122
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:107 Resp: 51876

Ion	Ratio	Lower	Upper
107	100		
144	23.6	19.4	29.2
142	72.3	60.3	90.5



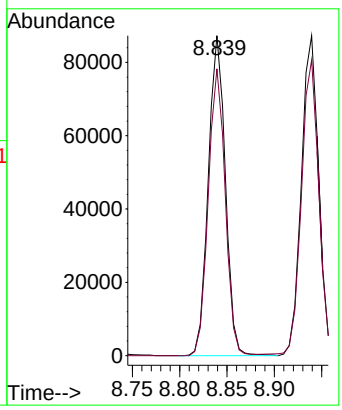


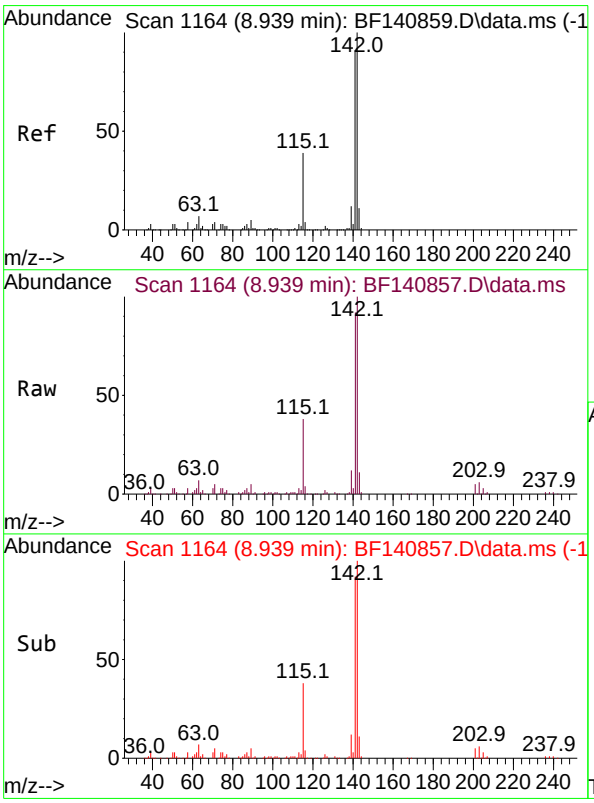
#37
2-Methylnaphthalene
Concen: 10.093 ng
RT: 8.839 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 109525

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.0	106.6

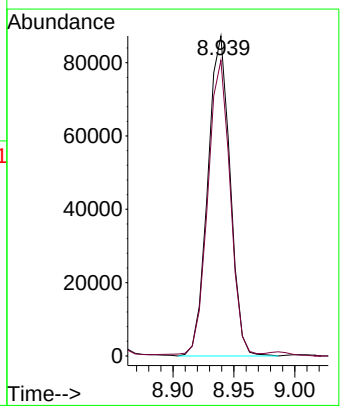


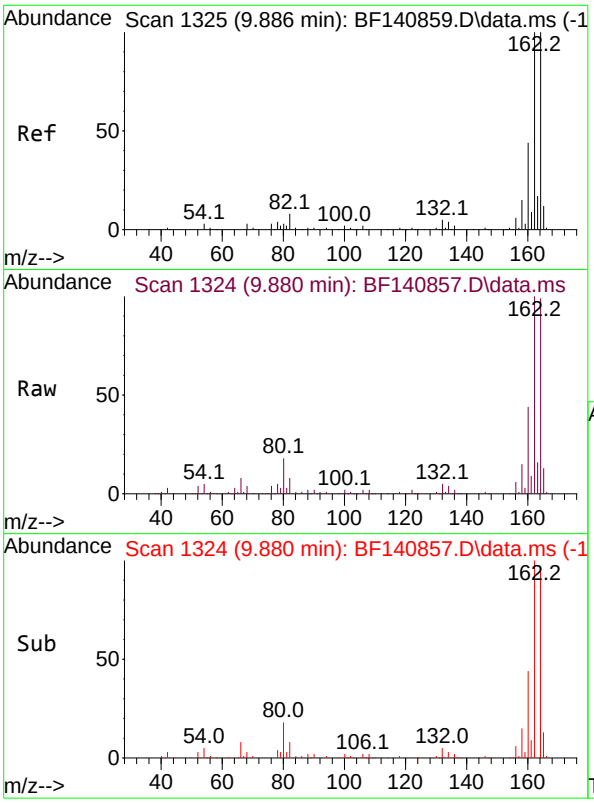


#38
1-Methylnaphthalene
Concen: 10.335 ng
RT: 8.939 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:142 Resp: 110917

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.4	110.0



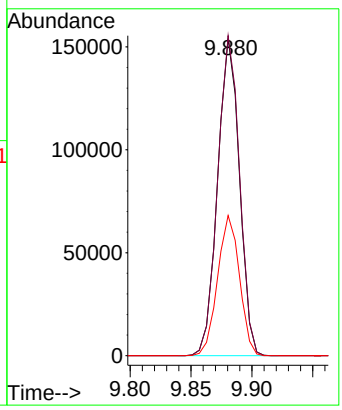


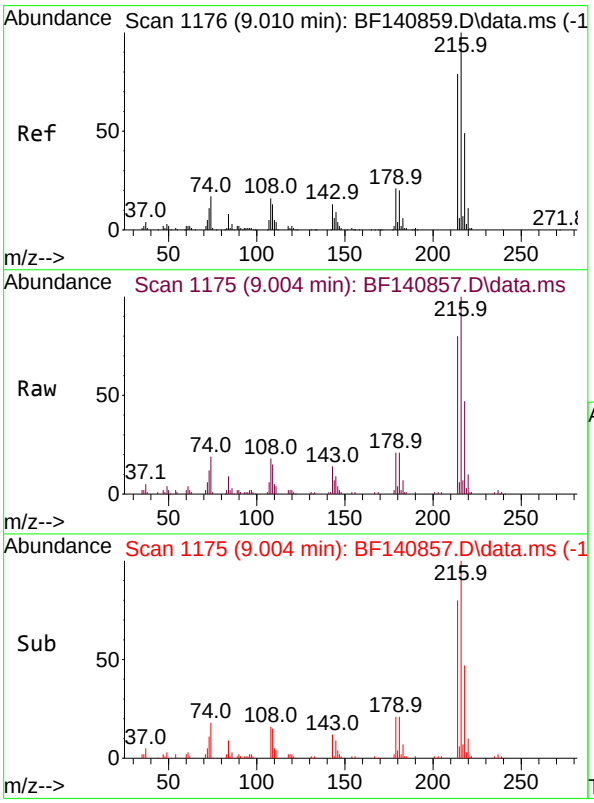
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 192062

Ion	Ratio	Lower	Upper
164	100		
162	100.9	79.9	119.9
160	44.2	35.2	52.8

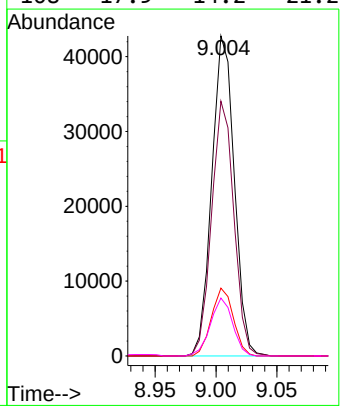


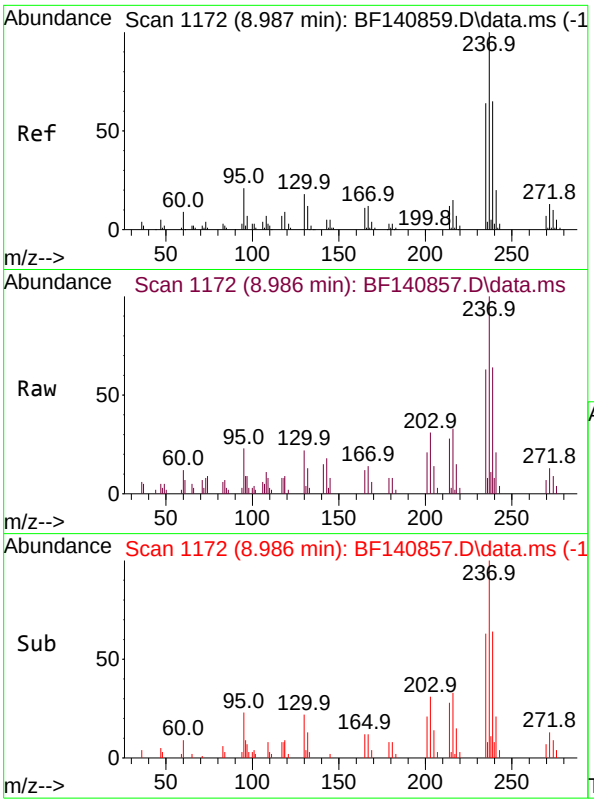


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.320 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:216 Resp: 55018

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.6	95.4
179	20.7	17.0	25.4
108	17.9	14.2	21.2



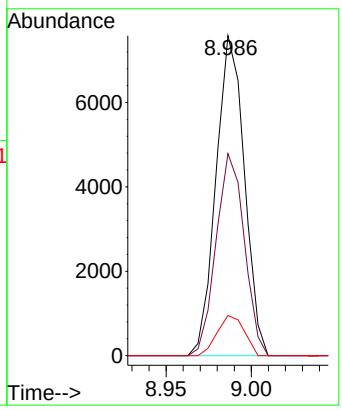


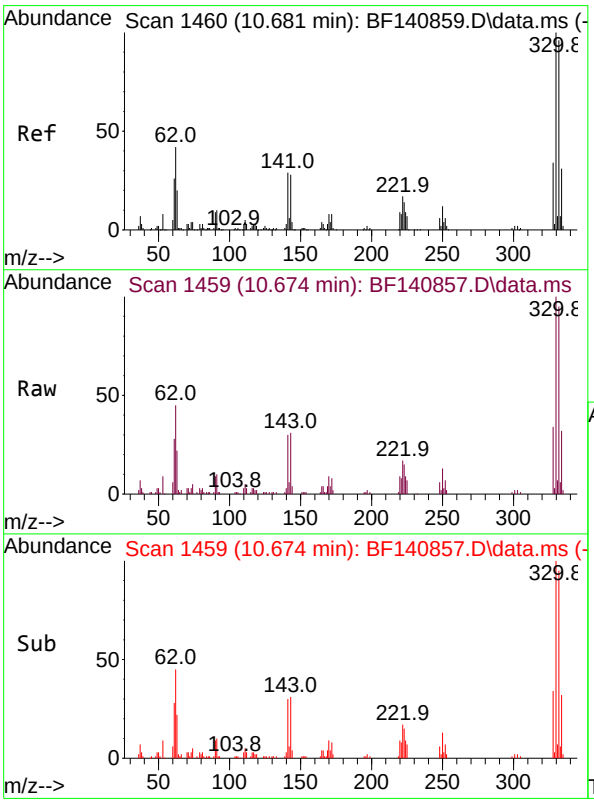
#41
Hexachlorocyclopentadiene
Concen: 8.866 ng
RT: 8.986 min Scan# 11
Delta R.T. -0.001 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 8781

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.7	83.7
272	12.5	0.0	32.9

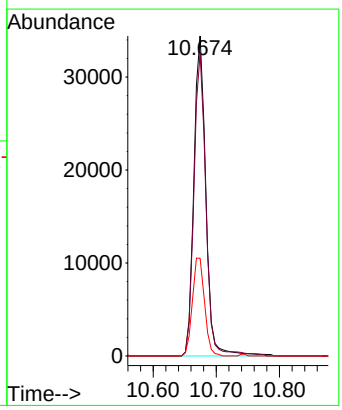


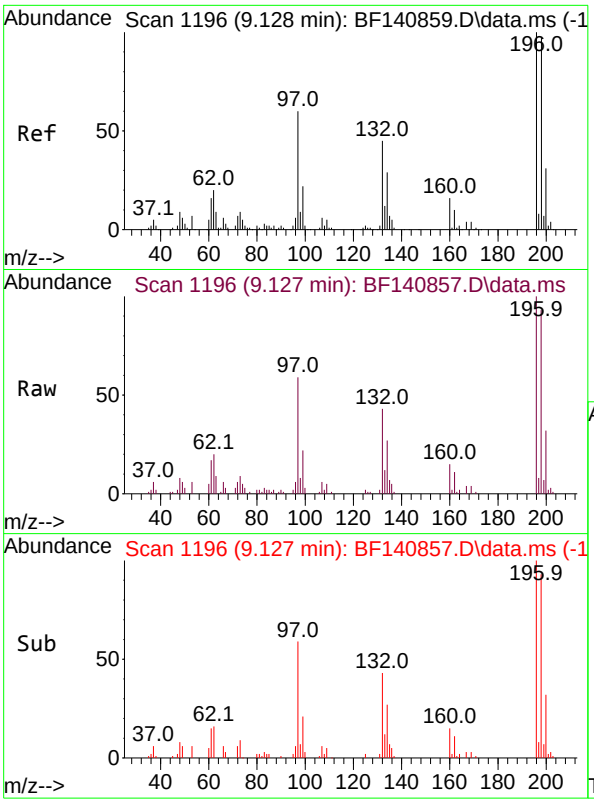


#42
2,4,6-Tribromophenol
Concen: 19.954 ng
RT: 10.674 min Scan# 1459
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:330 Resp: 45327

Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.2	114.4
141	31.1	24.9	37.3



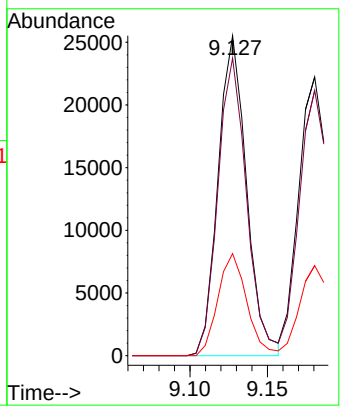


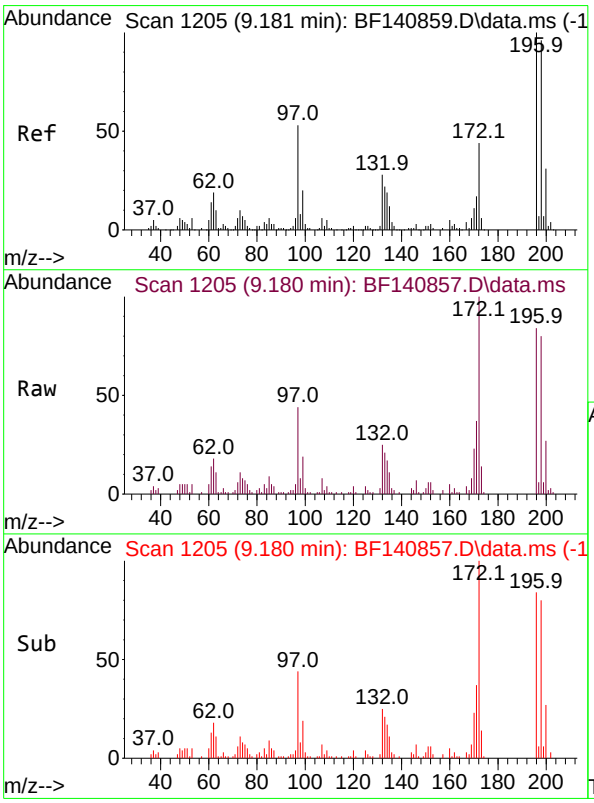
#43
2,4,6-Trichlorophenol
Concen: 9.006 ng
RT: 9.127 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 32555

Ion	Ratio	Lower	Upper
196	100		
198	93.0	77.4	116.0
200	31.9	24.5	36.7

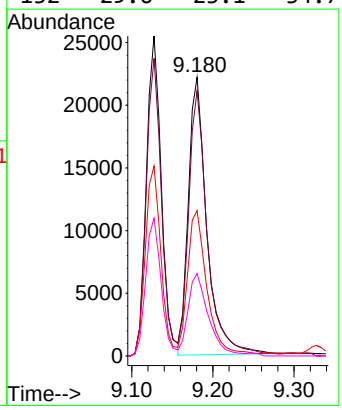


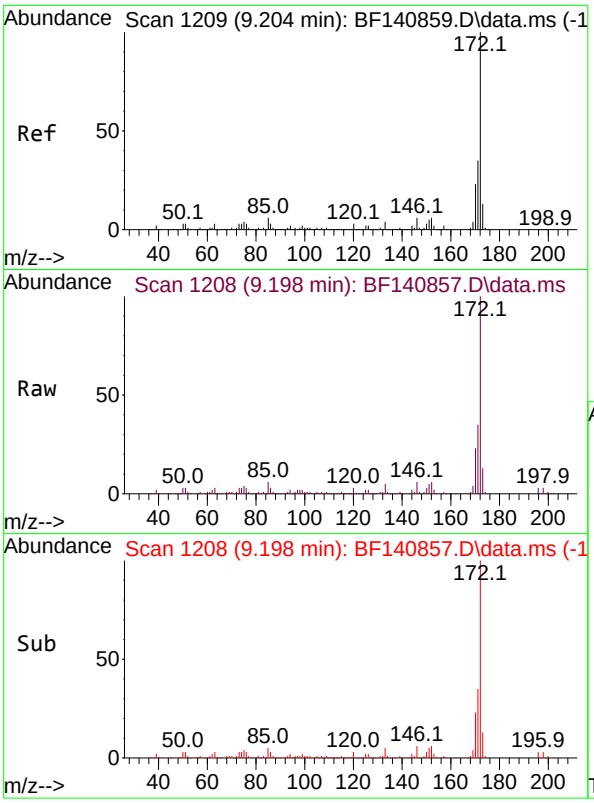


#44
2,4,5-Trichlorophenol
Concen: 8.817 ng
RT: 9.180 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:196 Resp: 35030

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.2	115.8
97	52.2	42.2	63.4
132	29.6	23.1	34.7



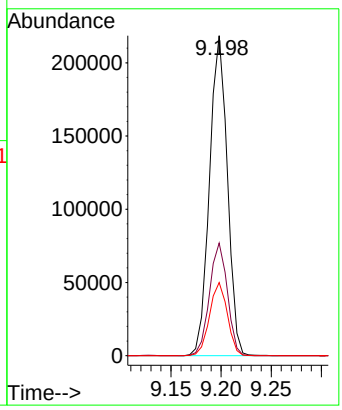


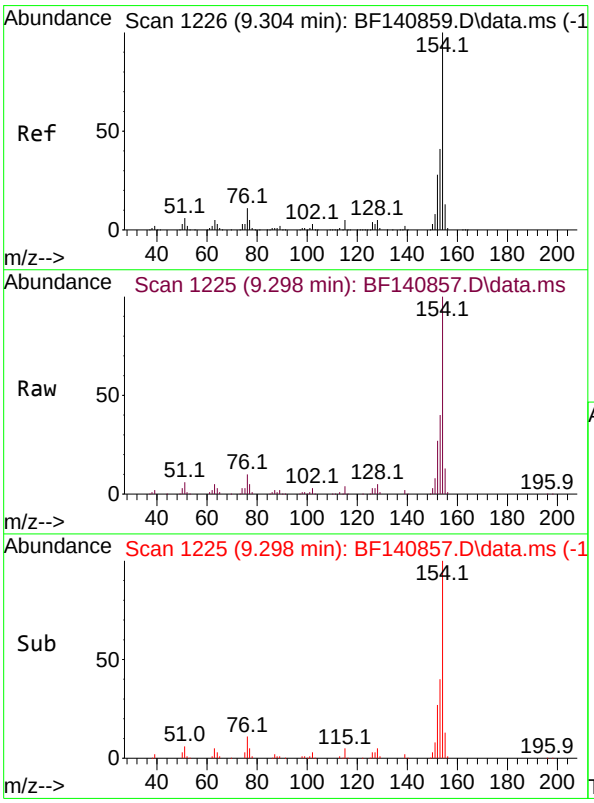
#45
2-Fluorobiphenyl
Concen: 19.381 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 270749

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	22.8	18.6	28.0

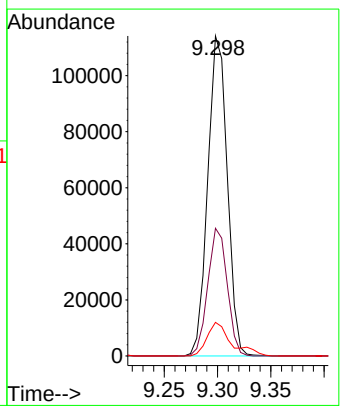


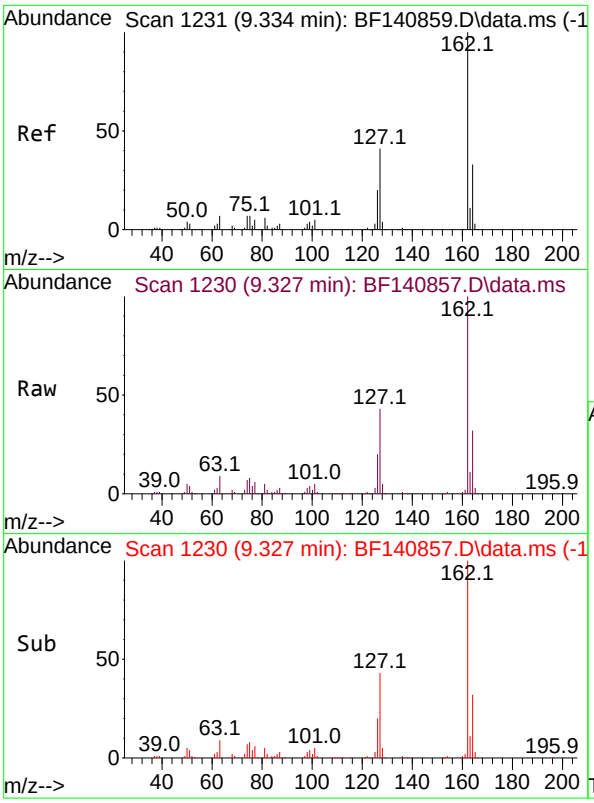


#46
1,1'-Biphenyl
Concen: 9.509 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:154 Resp: 145227

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.8	60.8
76	10.5	0.0	31.0



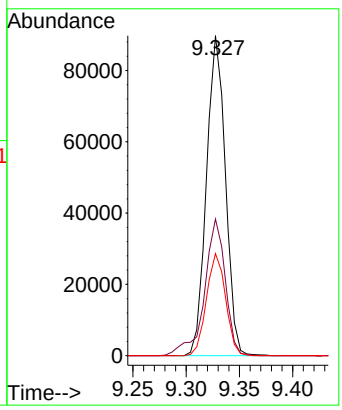


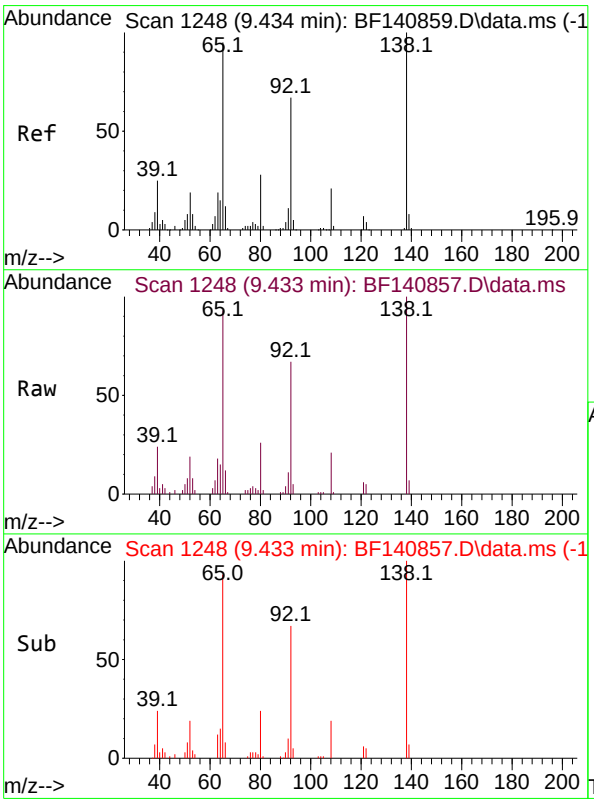
#47
2-Chloronaphthalene
Concen: 9.507 ng
RT: 9.327 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 111077

Ion	Ratio	Lower	Upper
162	100		
127	42.7	33.5	50.3
164	31.9	26.2	39.2

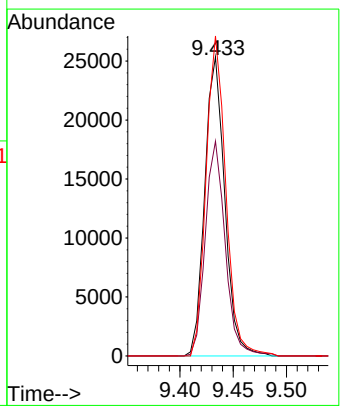


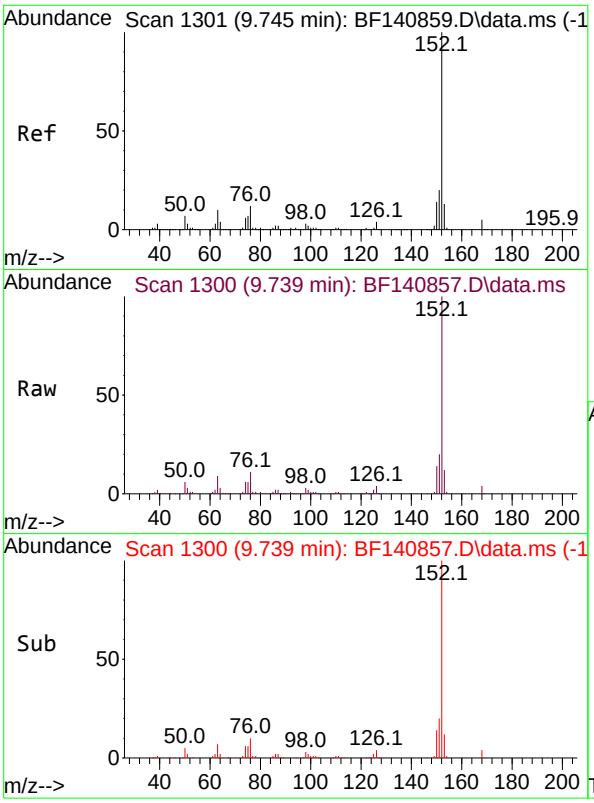


#48
2-Nitroaniline
Concen: 9.416 ng
RT: 9.433 min Scan# 1248
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 65 Resp: 33225

Ion	Ratio	Lower	Upper
65	100		
92	71.8	56.3	84.5
138	107.0	83.8	125.6



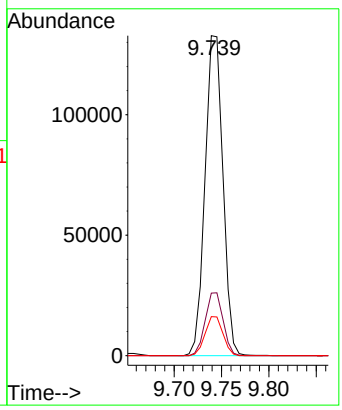


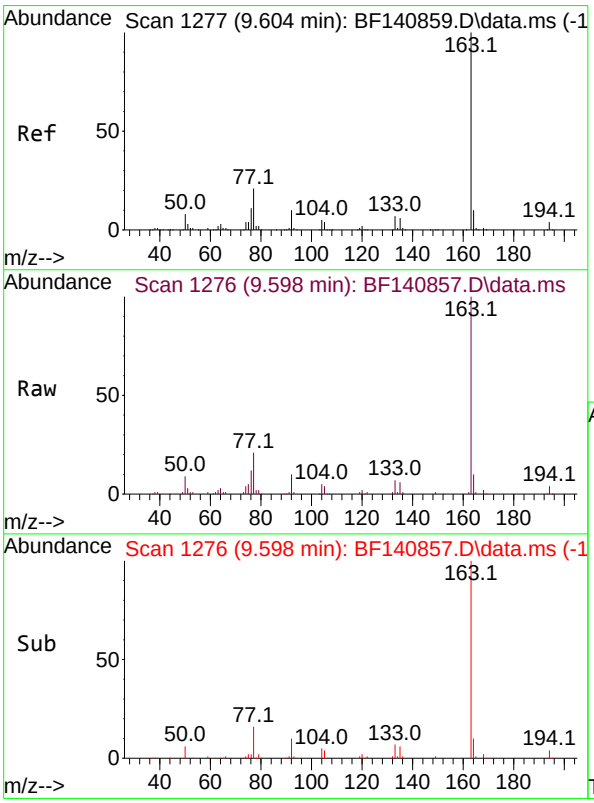
#49
Acenaphthylene
Concen: 10.187 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 174905

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.0	24.0
153	12.2	10.6	16.0

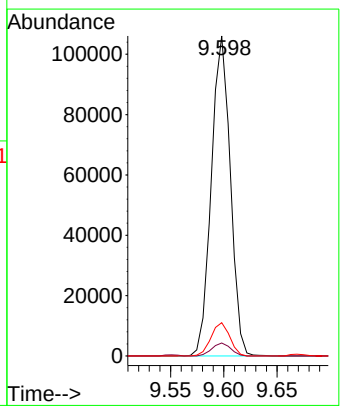


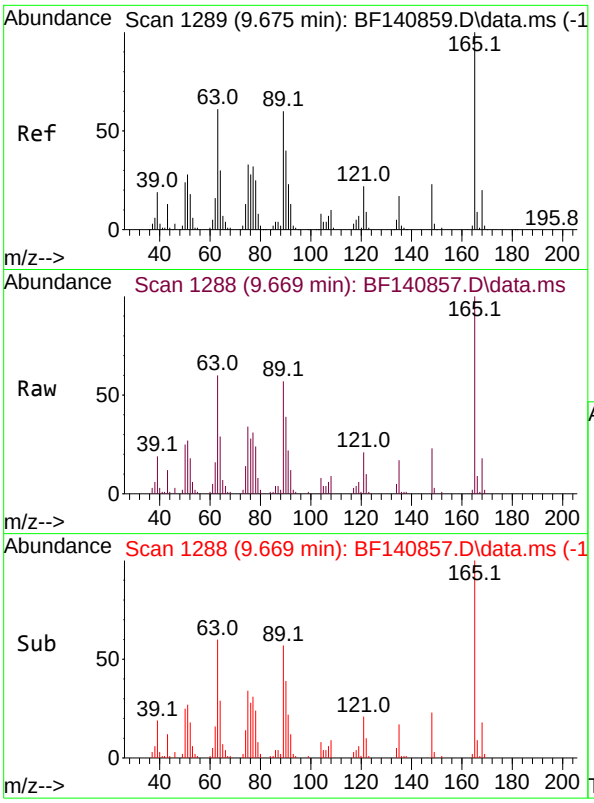


#50
Dimethylphthalate
Concen: 9.693 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:163 Resp: 131257

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.4	8.1	12.1



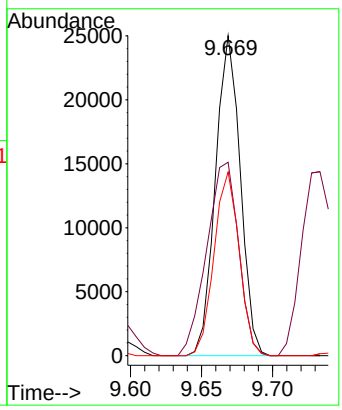


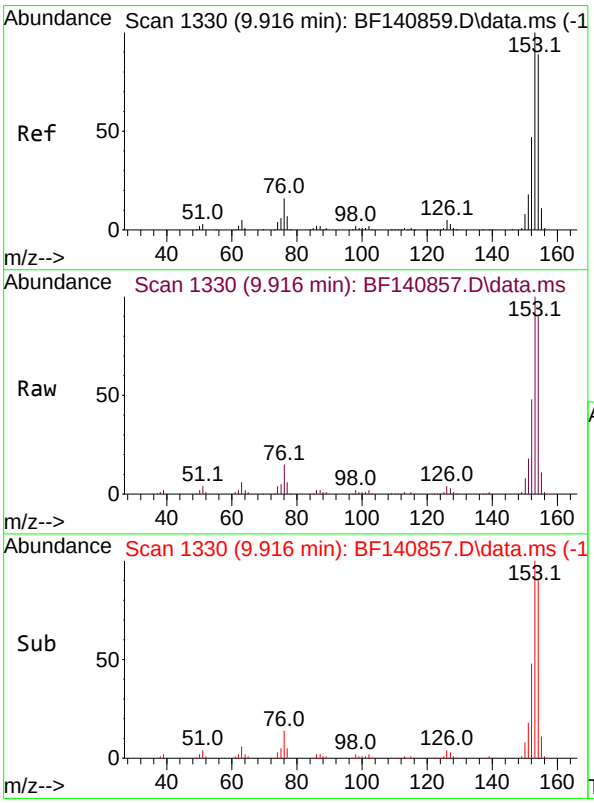
#51
2,6-Dinitrotoluene
Concen: 9.831 ng
RT: 9.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 30431

Ion	Ratio	Lower	Upper
165	100		
63	60.5	49.7	74.5
89	57.4	48.2	72.4

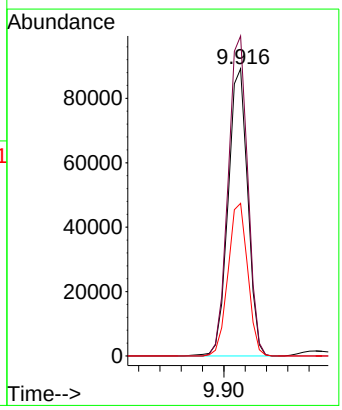


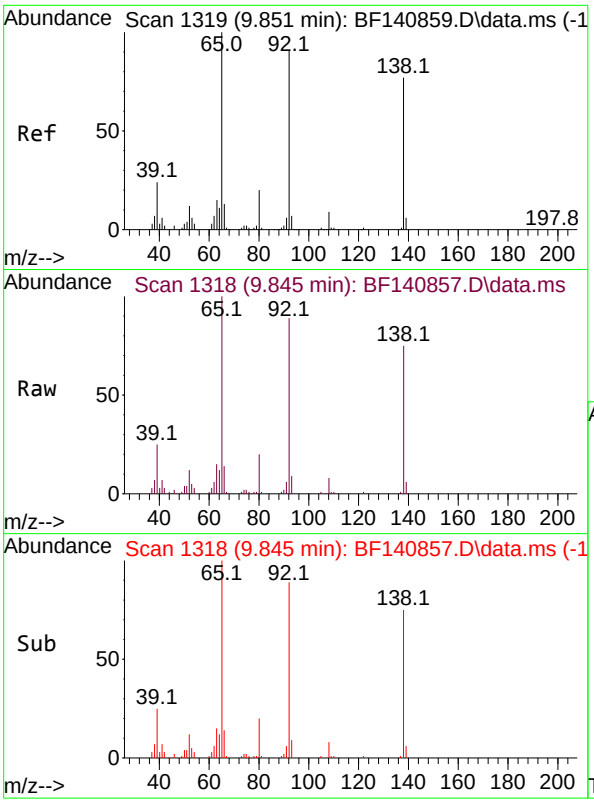


#52
Acenaphthene
Concen: 10.419 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:154 Resp: 114273

Ion	Ratio	Lower	Upper
154	100		
153	111.4	89.9	134.9
152	53.1	42.6	63.8



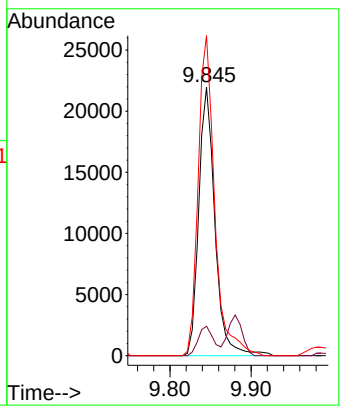


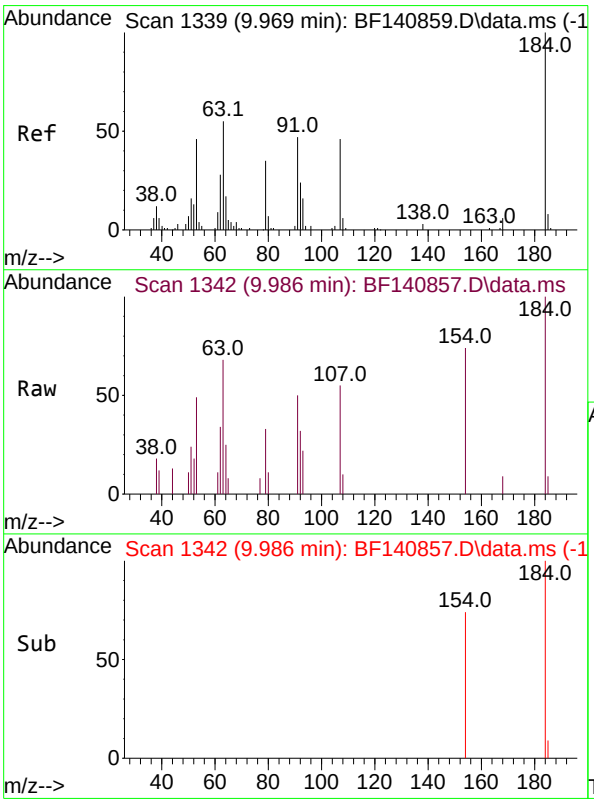
#53
3-Nitroaniline
Concen: 9.885 ng
RT: 9.845 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 30367

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	119.2	95.5	143.3

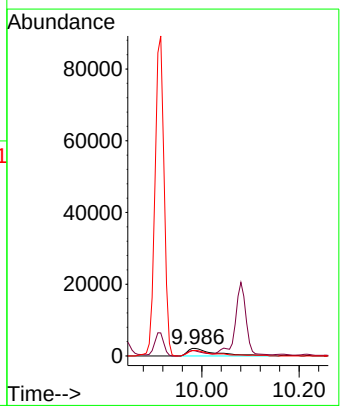


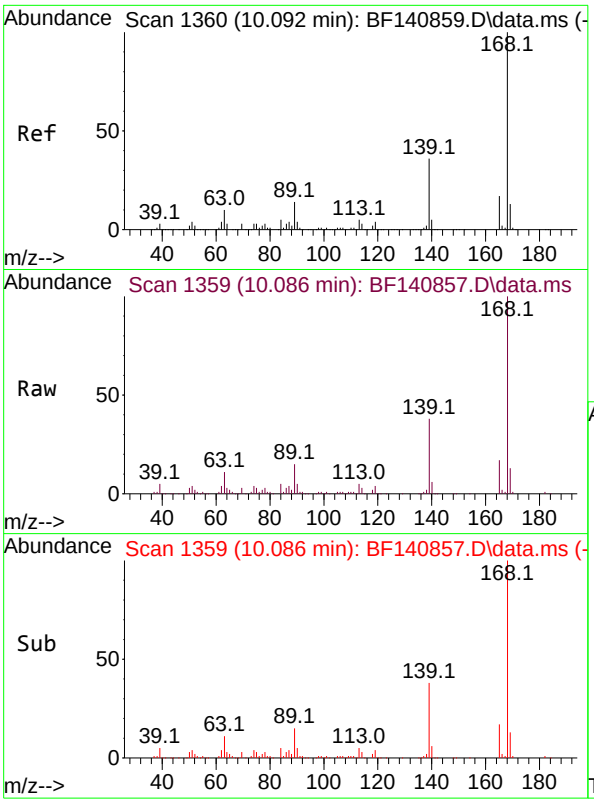


#54
2,4-Dinitrophenol
Concen: 11.701 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.017 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:184 Resp: 8488

Ion	Ratio	Lower	Upper
184	100		
63	67.8	51.6	77.4
154	74.2	56.1	84.1



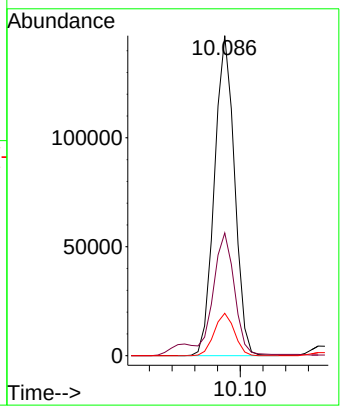


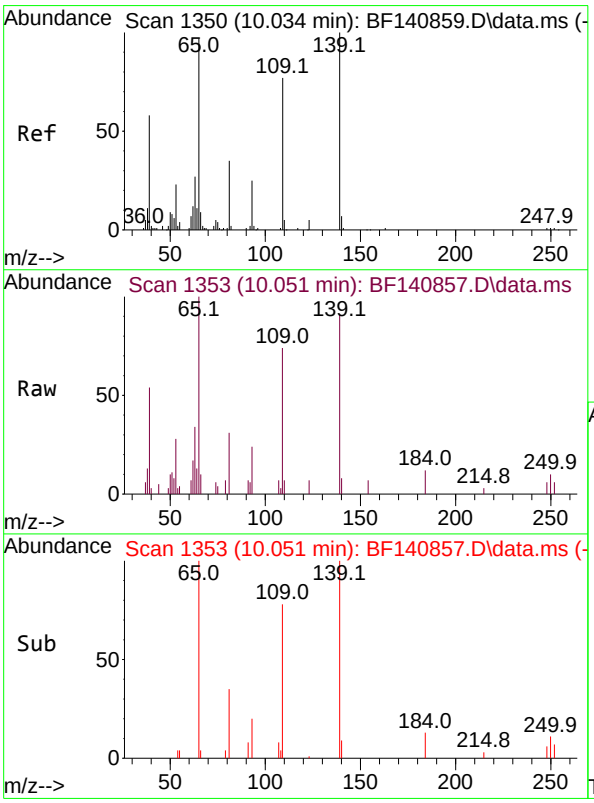
#55
Dibenzofuran
Concen: 10.598 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 180108

Ion	Ratio	Lower	Upper
168	100		
139	38.3	31.1	46.7
169	13.3	10.6	16.0

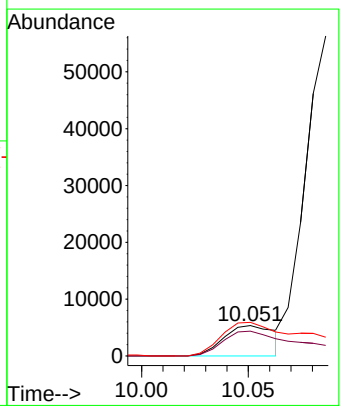


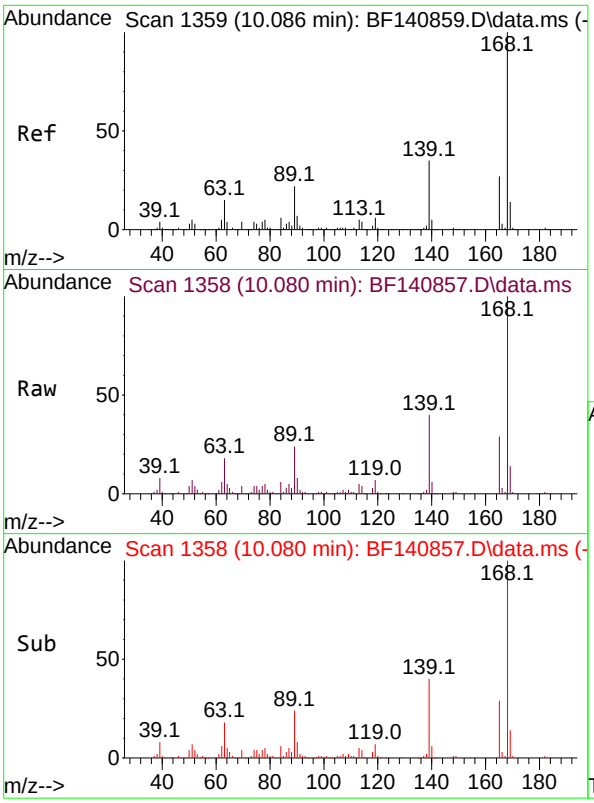


#56
4-Nitrophenol
Concen: 9.461 ng m
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:139 Resp: 8781

Ion	Ratio	Lower	Upper
139	100		
109	81.7	56.7	96.7
65	110.3	78.1	118.1



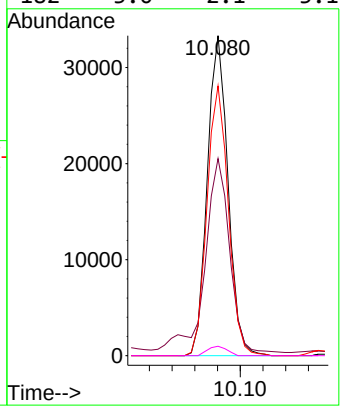


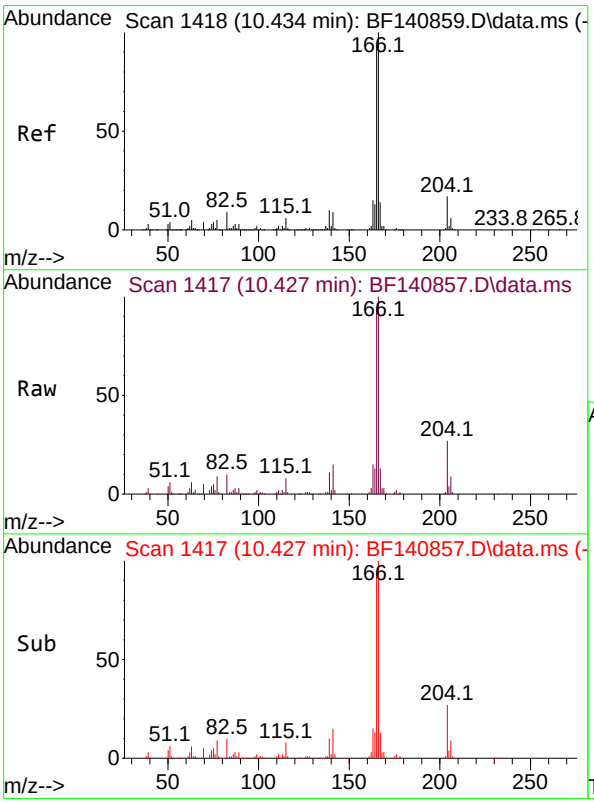
#57
2,4-Dinitrotoluene
Concen: 10.339 ng
RT: 10.080 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 42109

Ion	Ratio	Lower	Upper
165	100		
63	61.6	49.3	73.9
89	84.3	66.2	99.4
182	3.0	2.1	3.1

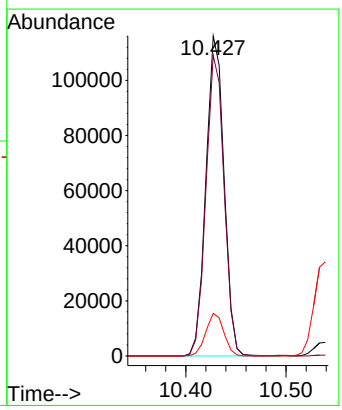


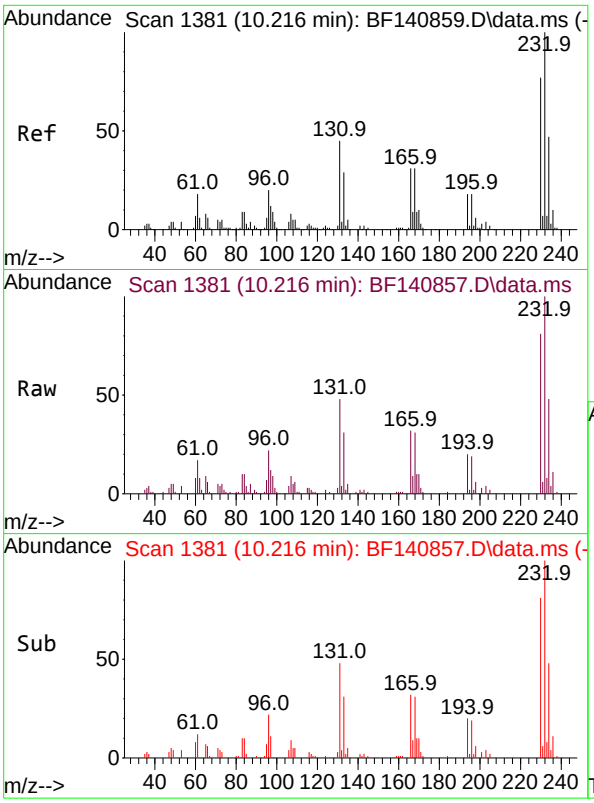


#58
Fluorene
Concen: 10.424 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:166 Resp: 146155

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.1	112.7
167	13.3	11.1	16.7



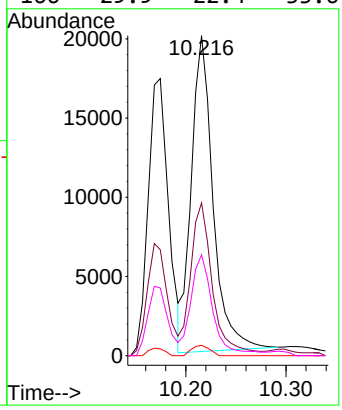


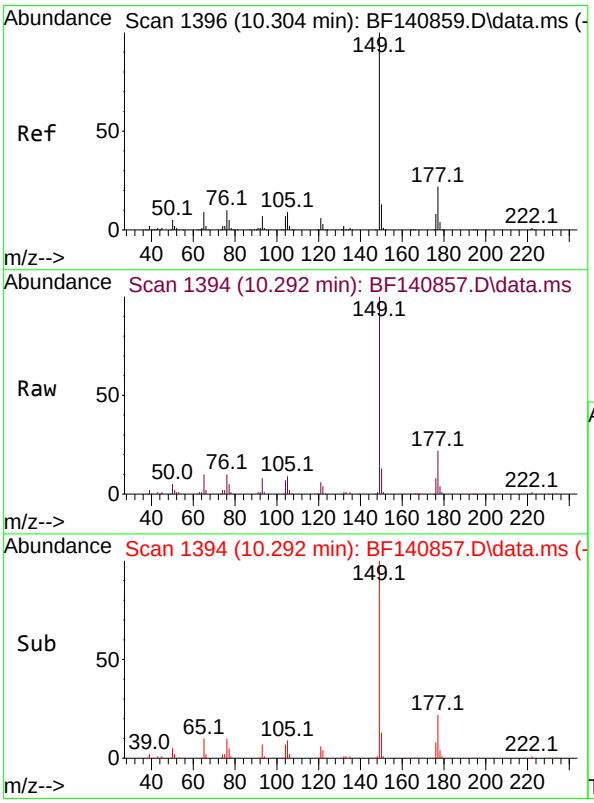
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.251 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 29950

Ion	Ratio	Lower	Upper
232	100		
131	48.8	35.1	52.7
130	2.7	1.8	2.8
166	29.9	22.4	33.6

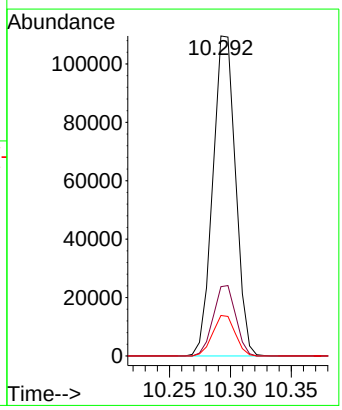


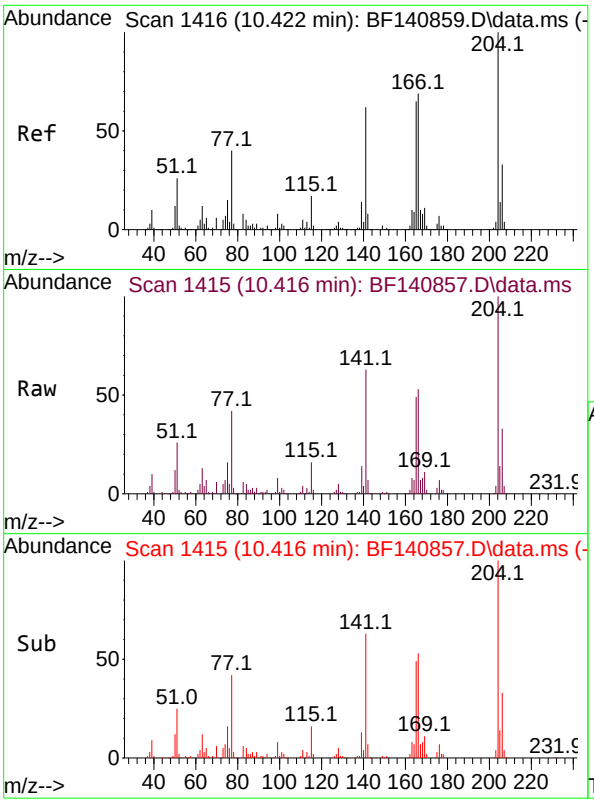


#60
Diethylphthalate
Concen: 10.147 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 142484

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.2	25.8
150	12.7	10.1	15.1



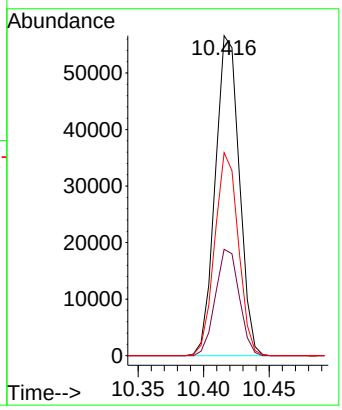


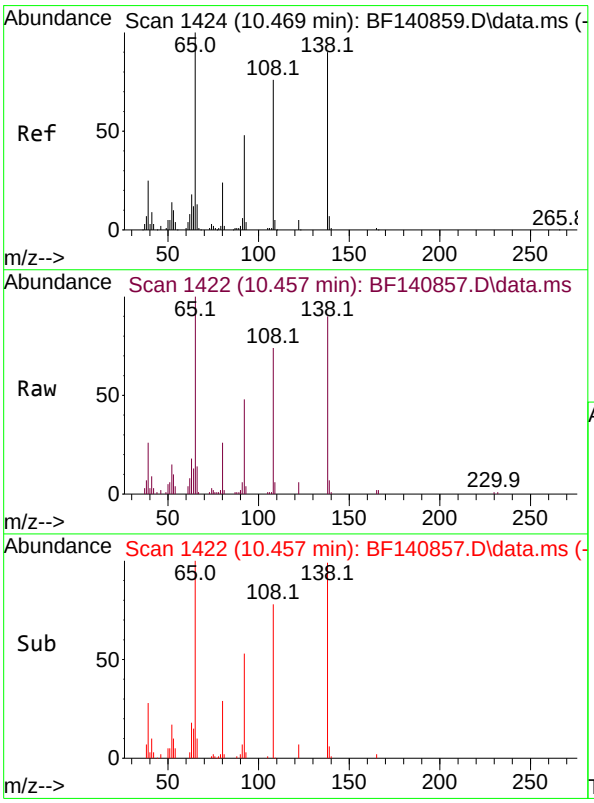
#61
4-Chlorophenyl-phenylether
Concen: 10.224 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 72010

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.5	39.7
141	63.4	50.0	75.0

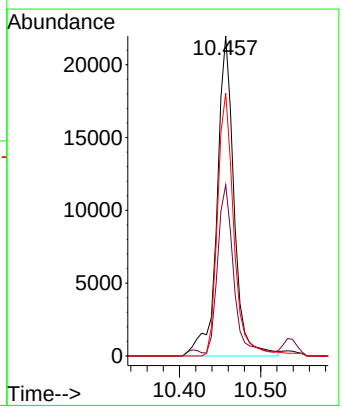


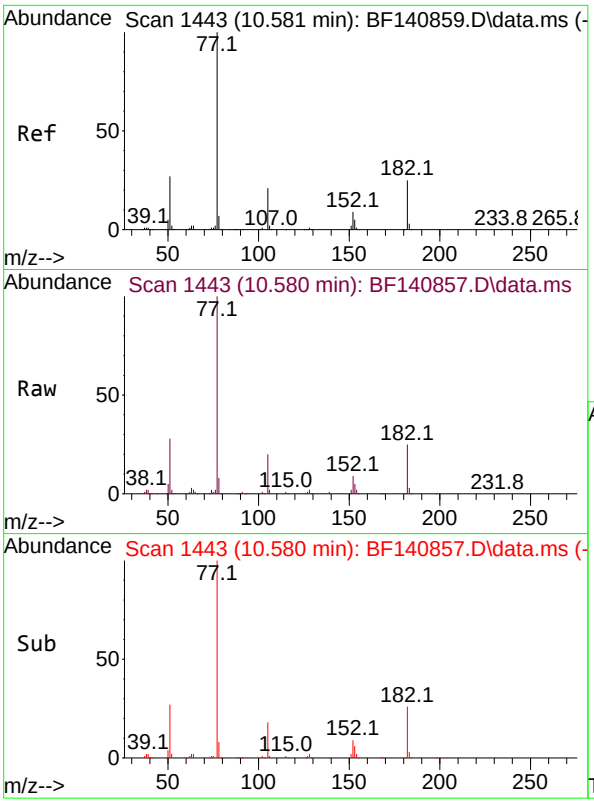


#62
4-Nitroaniline
Concen: 9.956 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:138 Resp: 31962

Ion	Ratio	Lower	Upper
138	100		
92	53.5	32.6	72.6
108	82.1	64.1	104.1



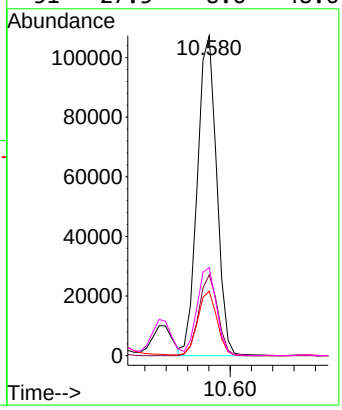


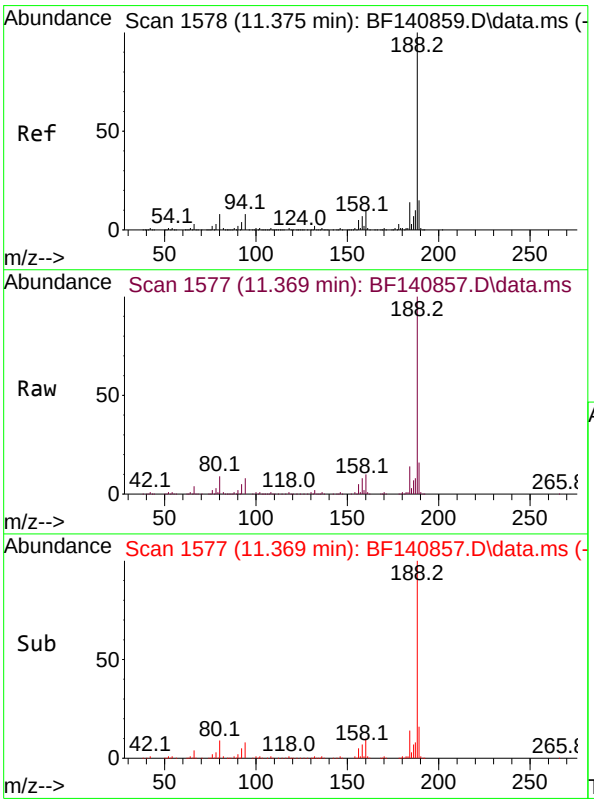
#63
Azobenzene
Concen: 10.267 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 135524

Ion	Ratio	Lower	Upper
77	100		
182	25.3	4.5	44.5
105	20.1	0.9	40.9
51	27.5	8.6	48.6

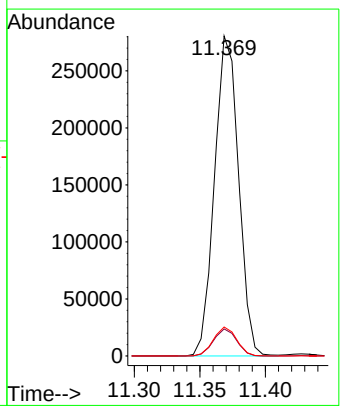


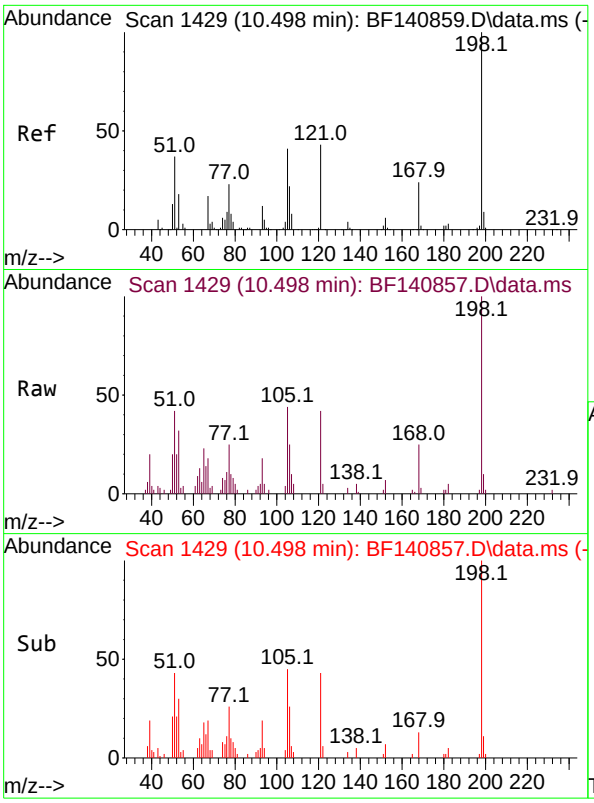


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:188 Resp: 358020

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	9.1	6.8	10.2



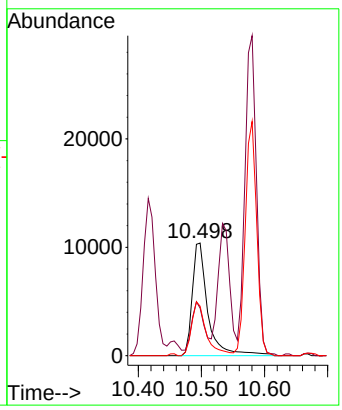


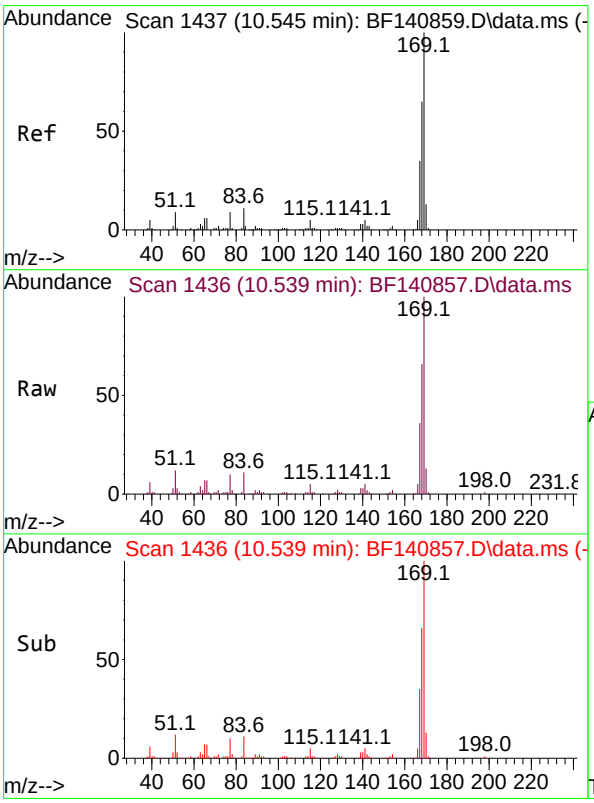
#65
4,6-Dinitro-2-methylphenol
Concen: 8.752 ng
RT: 10.498 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 17756

Ion	Ratio	Lower	Upper
198	100		
51	42.2	24.4	64.4
105	43.9	22.1	62.1

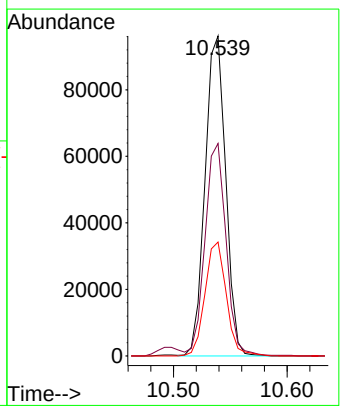


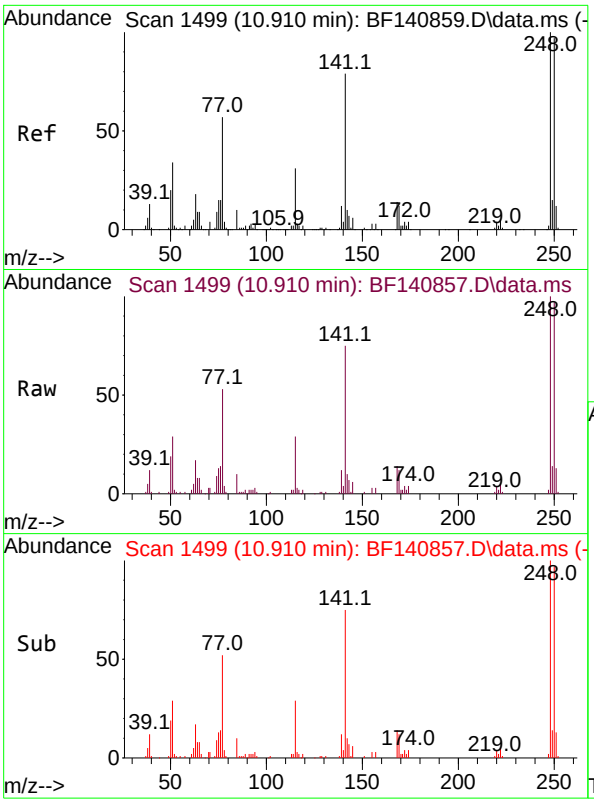


#66
n-Nitrosodiphenylamine
Concen: 11.038 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:169 Resp: 121500

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.4	80.0
167	35.6	28.3	42.5



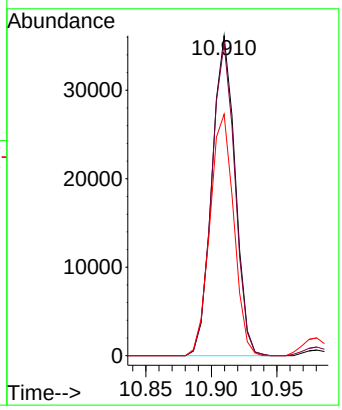


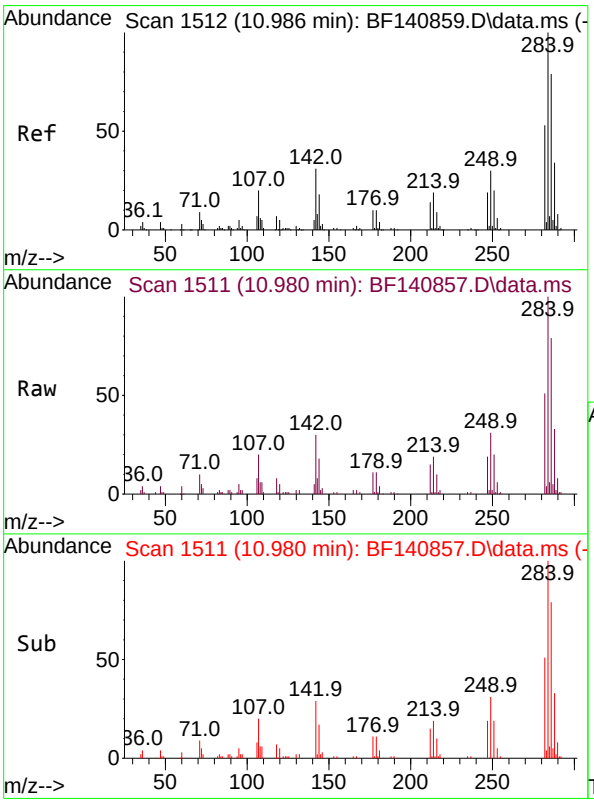
#67
4-Bromophenyl-phenylether
Concen: 11.082 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 44385

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.4	116.2
141	75.5	62.9	94.3

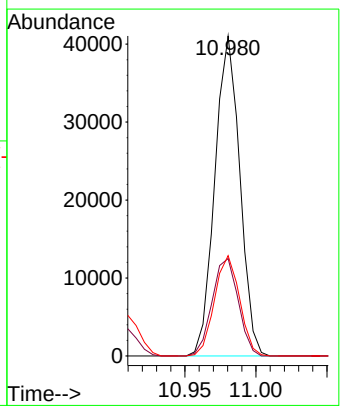


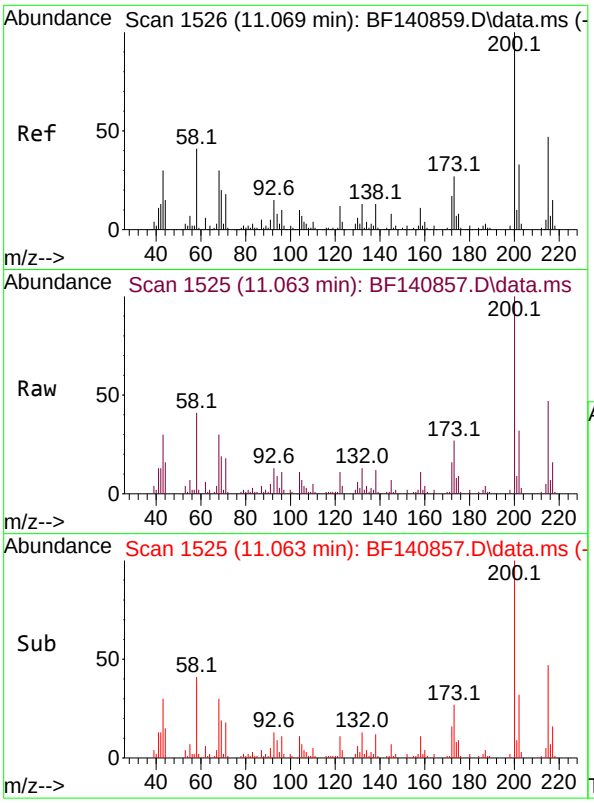


#68
Hexachlorobenzene
Concen: 11.040 ng
RT: 10.980 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:284 Resp: 50135

Ion	Ratio	Lower	Upper
284	100		
142	30.4	24.6	36.8
249	31.3	24.3	36.5



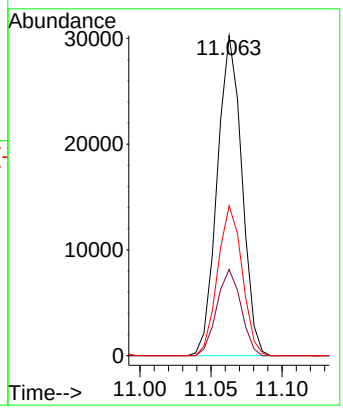


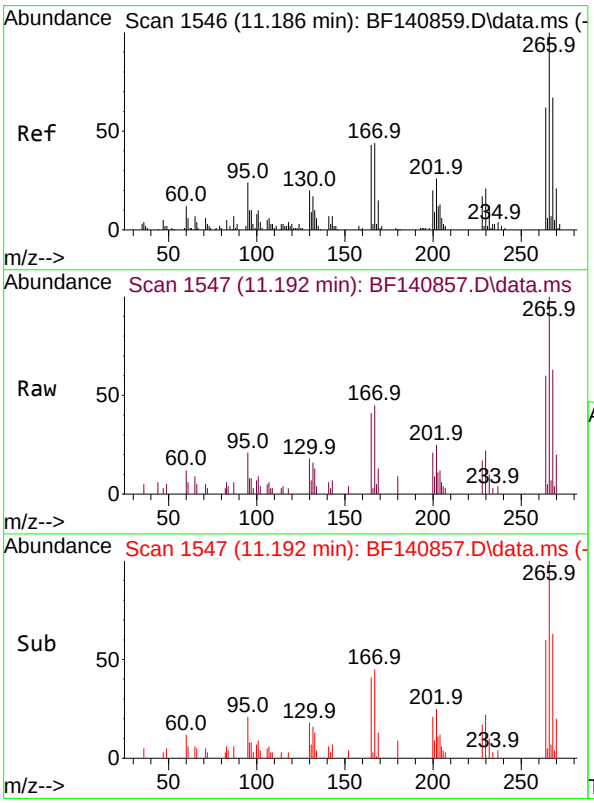
#69
Atrazine
Concen: 11.864 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 36472

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.6	46.6
215	46.8	26.7	66.7

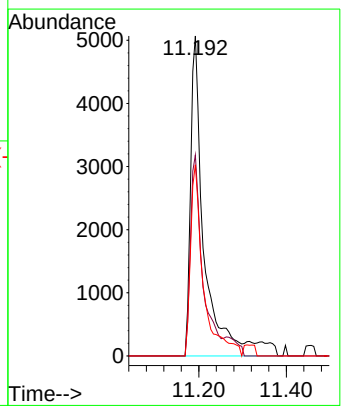


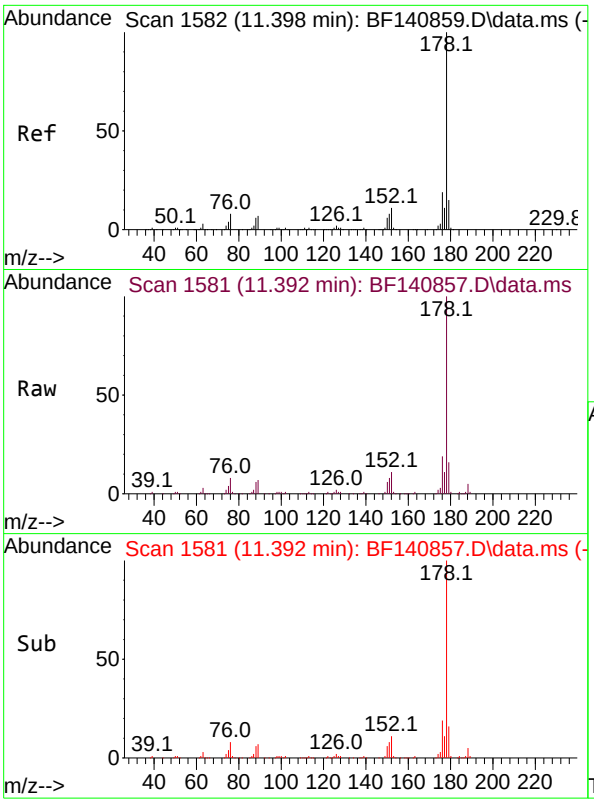


#70
Pentachlorophenol
Concen: 6.725 ng m
RT: 11.192 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:266 Resp: 11171

Ion	Ratio	Lower	Upper
266	100		
268	62.8	54.0	81.0
264	59.7	49.4	74.2



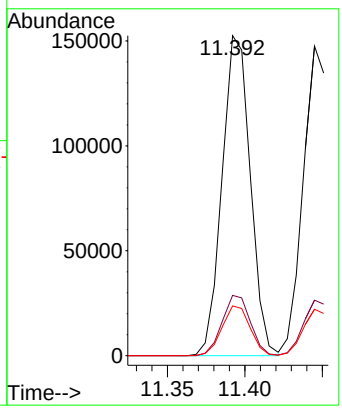


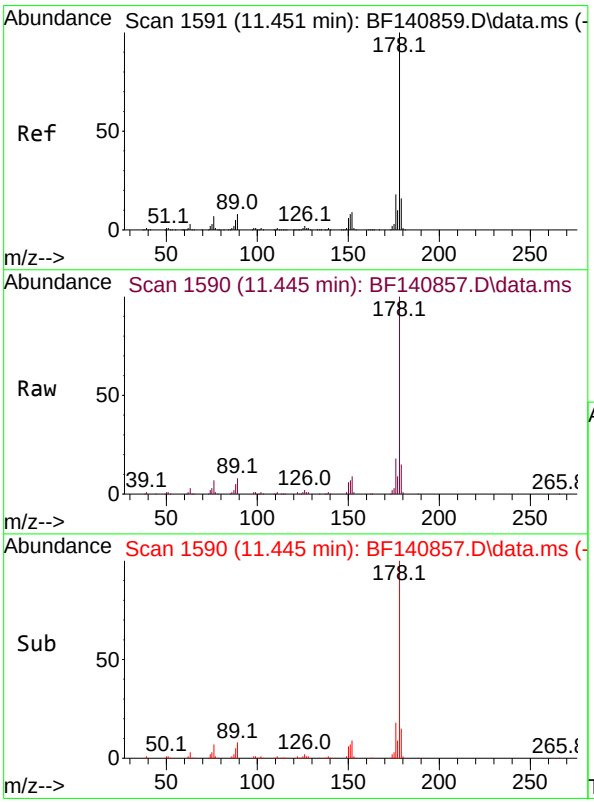
#71
Phenanthrene
Concen: 10.510 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 193504

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.1	18.1

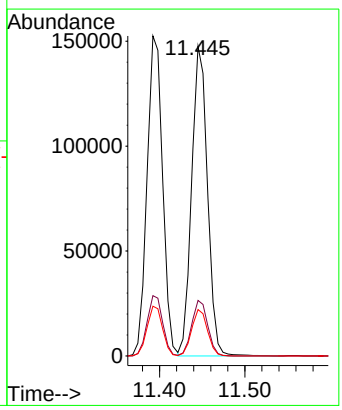


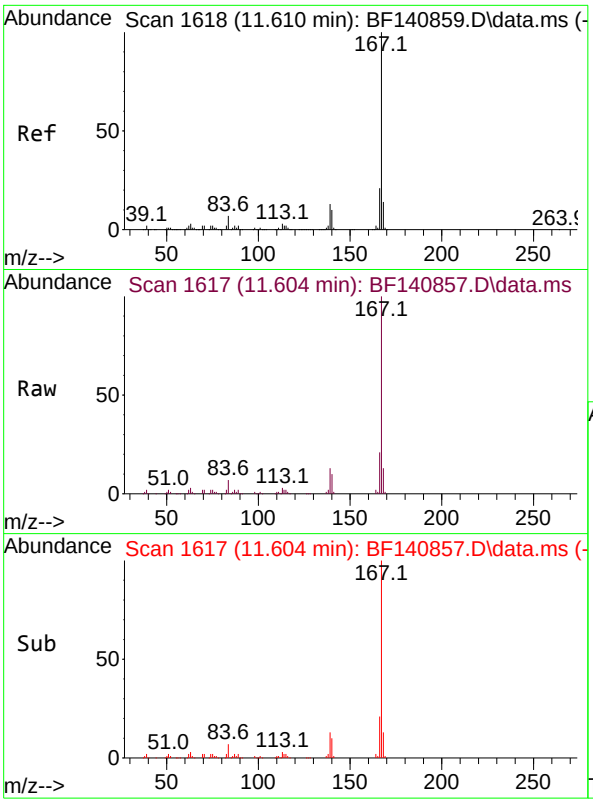


#72
Anthracene
Concen: 10.502 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:178 Resp: 190407

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	22.0
179	15.0	12.6	18.8



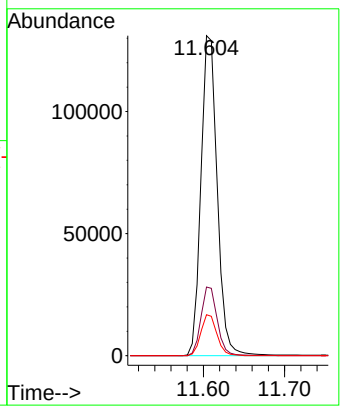


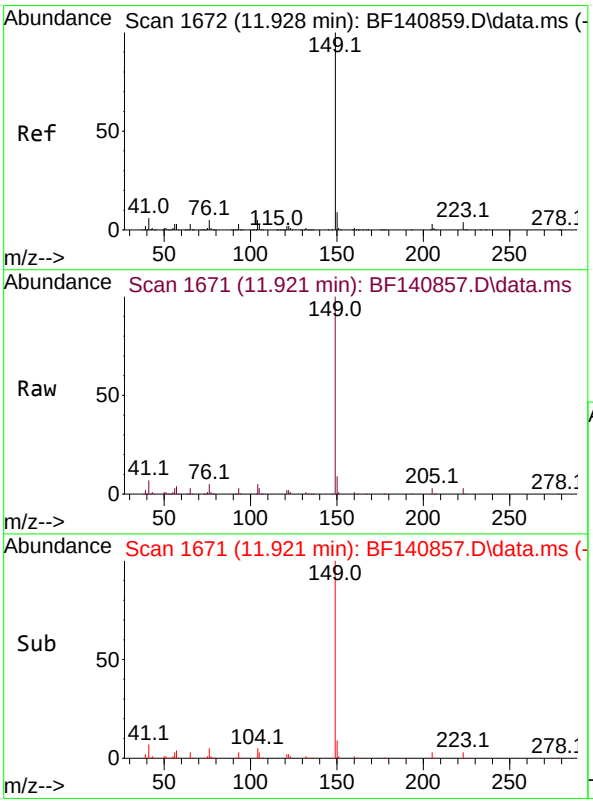
#73
Carbazole
Concen: 10.259 ng
RT: 11.604 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 182199

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	12.8	10.2	15.2

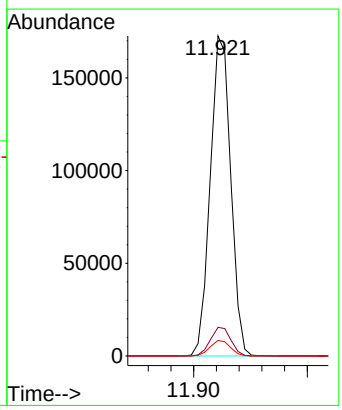


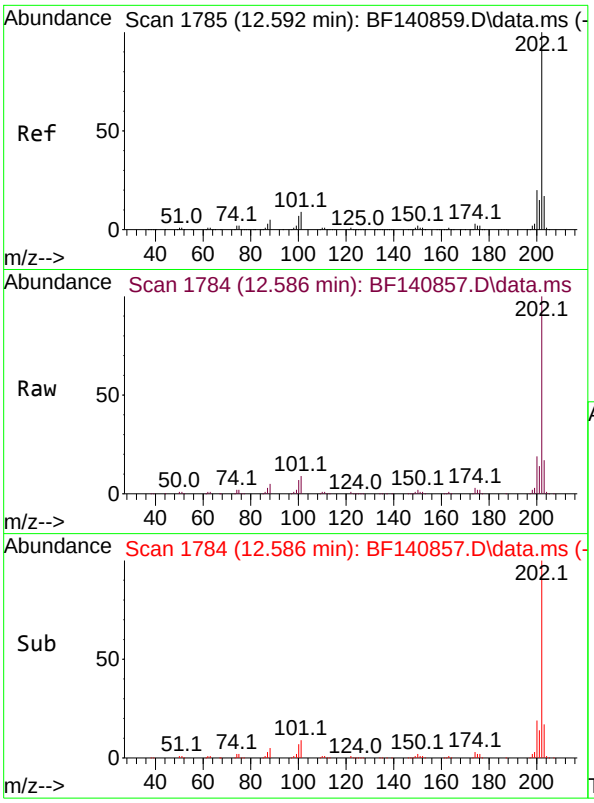


#74
Di-n-butylphthalate
Concen: 10.359 ng
RT: 11.921 min Scan# 1671
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 215903

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.5	11.3
104	4.9	3.8	5.8



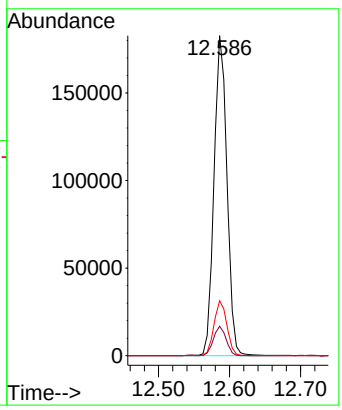


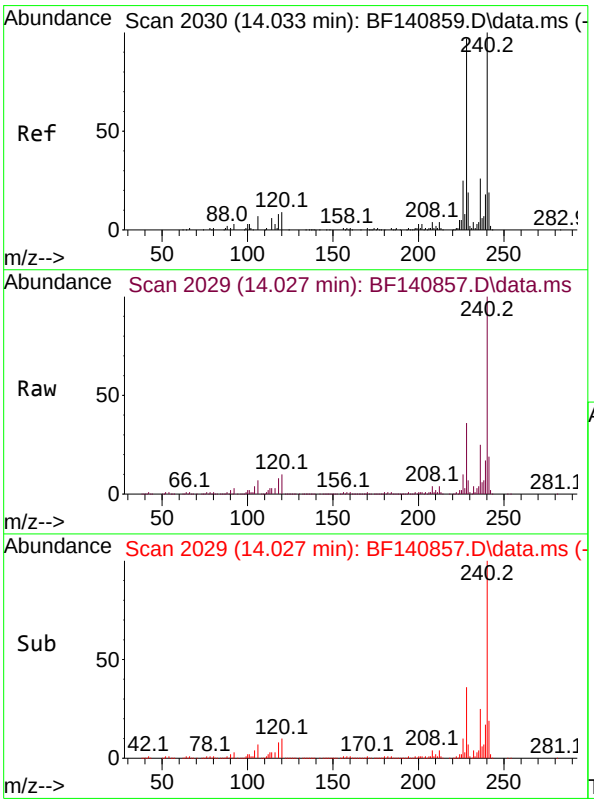
#75
Fluoranthene
Concen: 10.896 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 231038

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.3
203	17.1	0.0	37.4

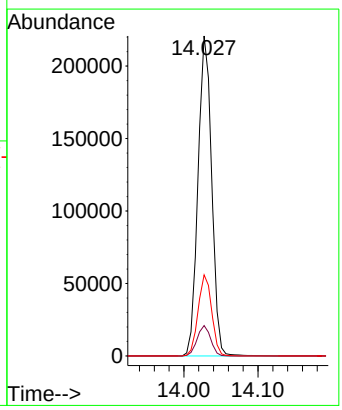


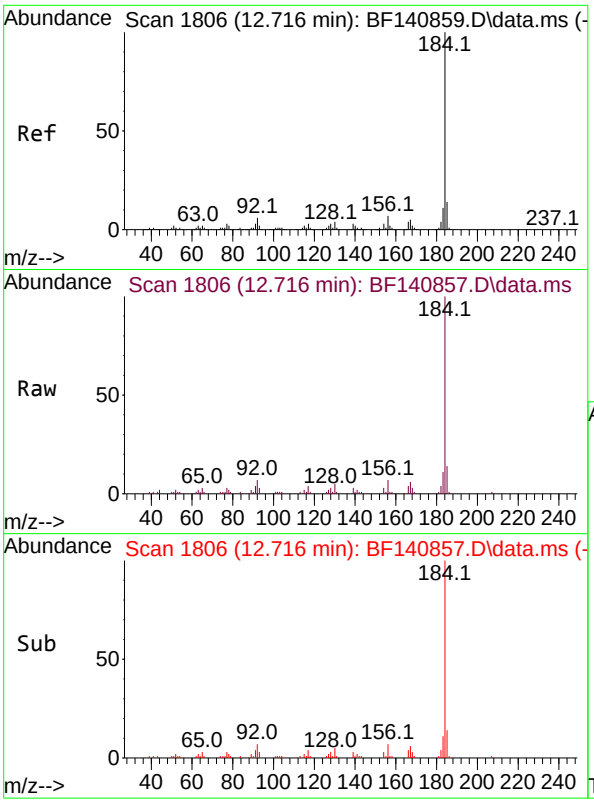


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:240 Resp: 282501

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.6	11.4
236	25.3	20.5	30.7



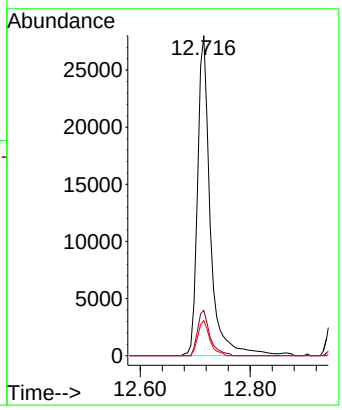


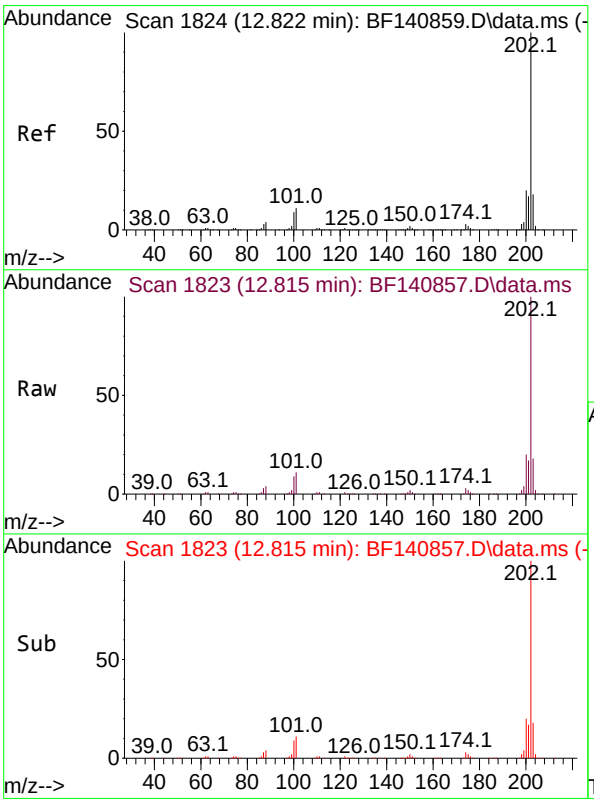
#77
Benzidine
Concen: 7.818 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 45074

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.1	16.7
183	11.0	9.0	13.4

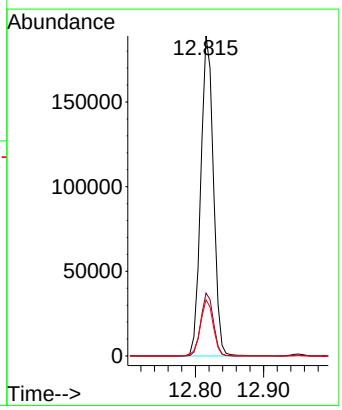


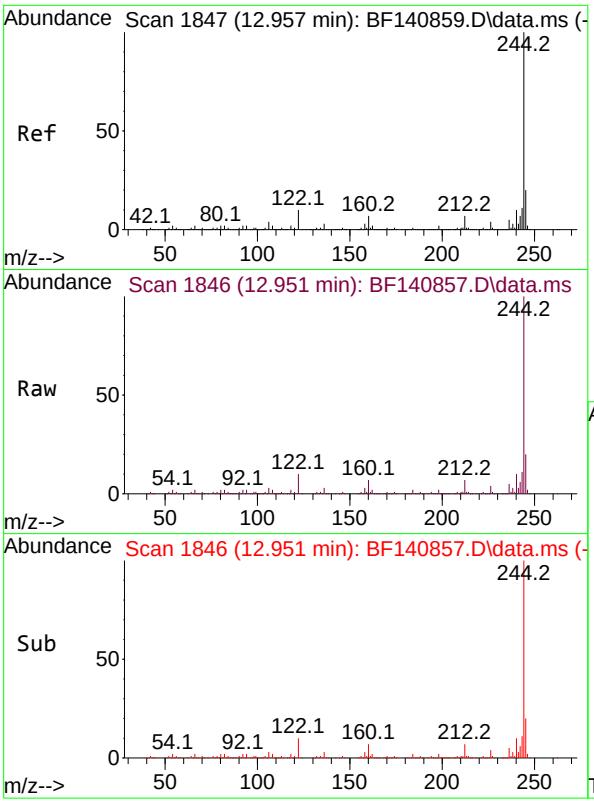


#78
Pyrene
Concen: 9.663 ng
RT: 12.815 min Scan# 1823
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:202 Resp: 242761

Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.1	24.1
203	17.5	14.2	21.4



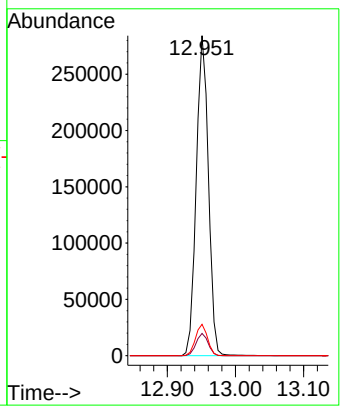


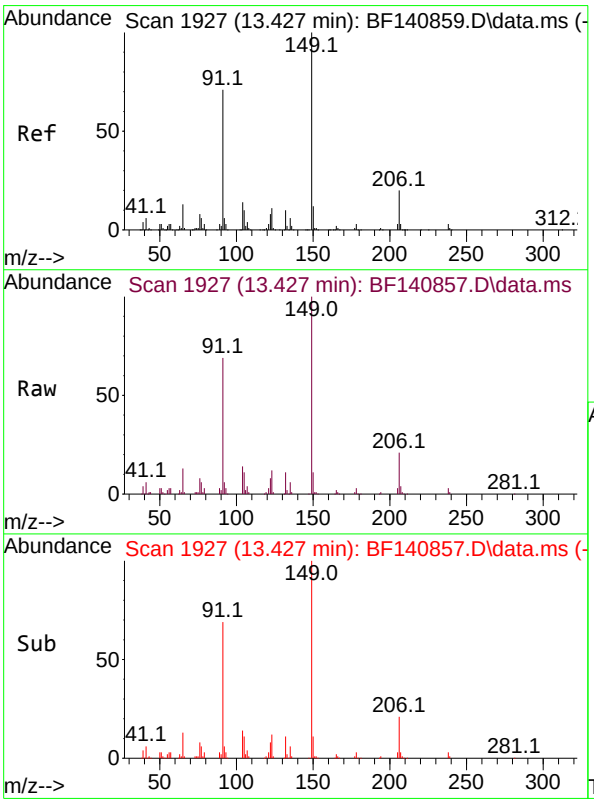
#79
Terphenyl-d14
Concen: 19.670 ng
RT: 12.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 352398

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.8	8.2	12.2

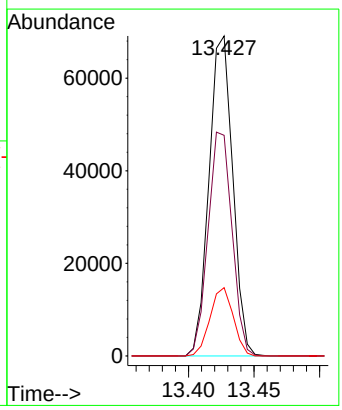


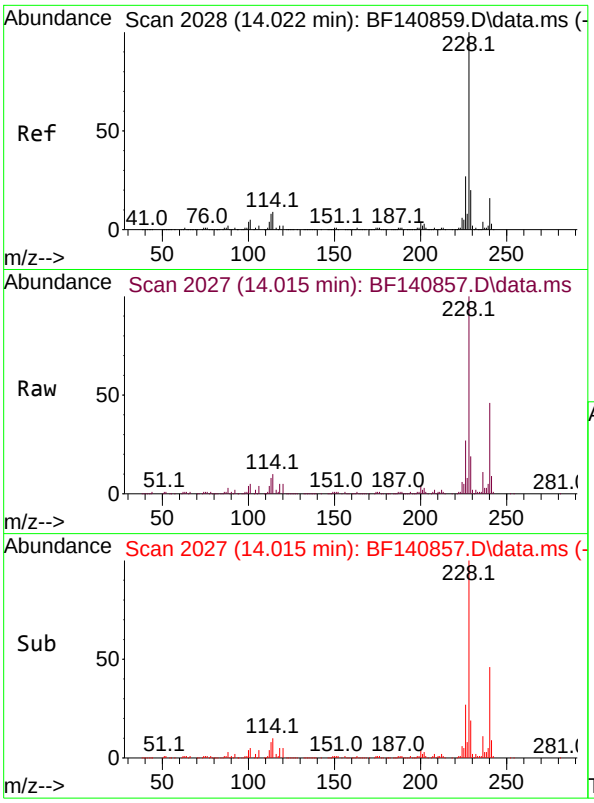


#80
Butylbenzylphthalate
Concen: 9.411 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 86987

Ion	Ratio	Lower	Upper
149	100		
91	69.0	56.7	85.1
206	21.4	16.4	24.6



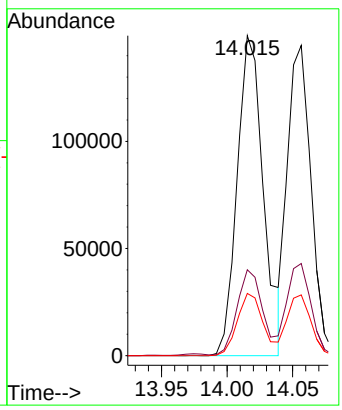


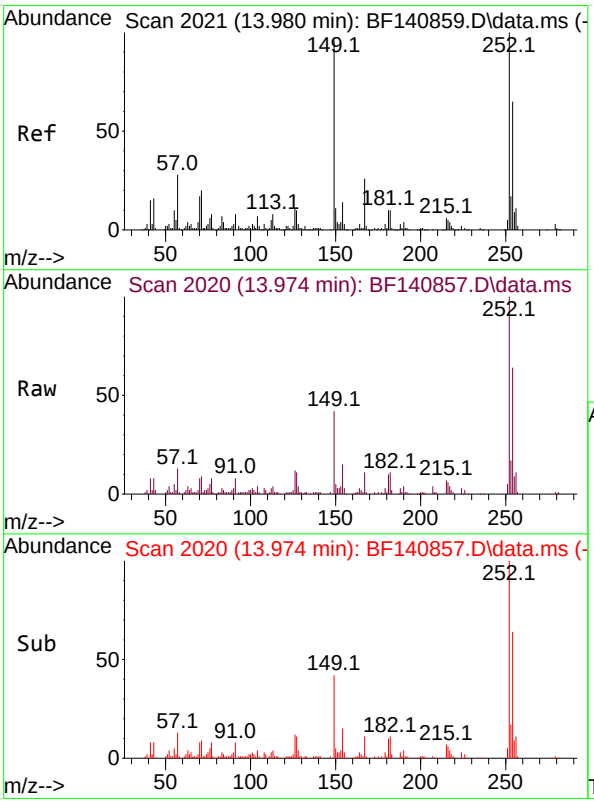
#81
Benzo(a)anthracene
Concen: 10.395 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 208127

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.5	15.8	23.8

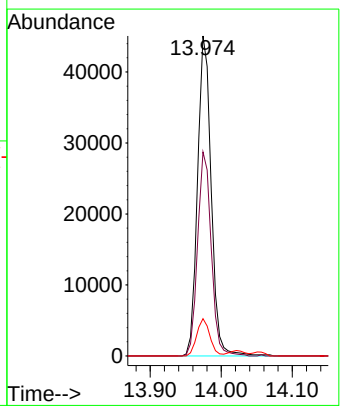


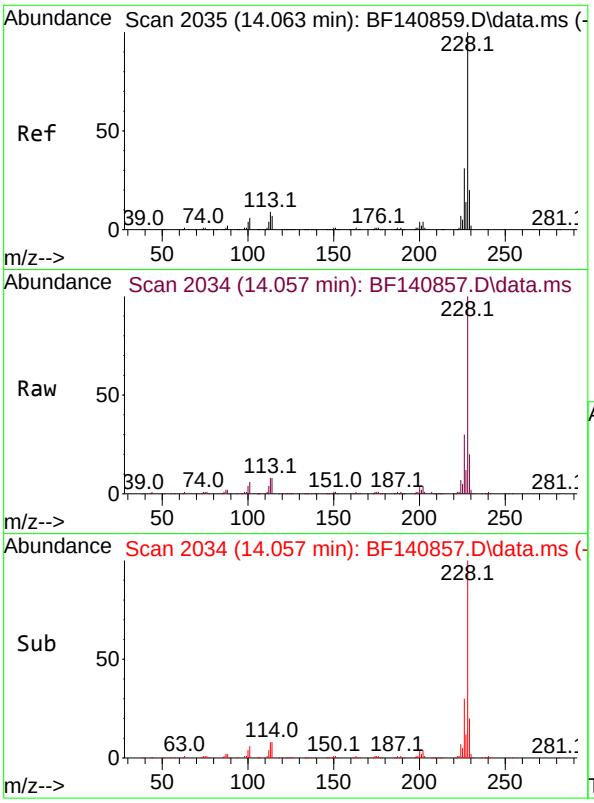


#82
3,3'-Dichlorobenzidine
Concen: 9.994 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:252 Resp: 60368

Ion	Ratio	Lower	Upper
252	100		
254	63.7	52.3	78.5
126	11.7	8.4	12.6



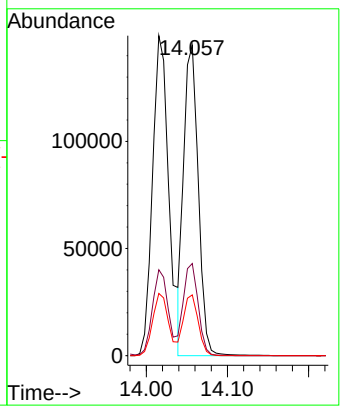


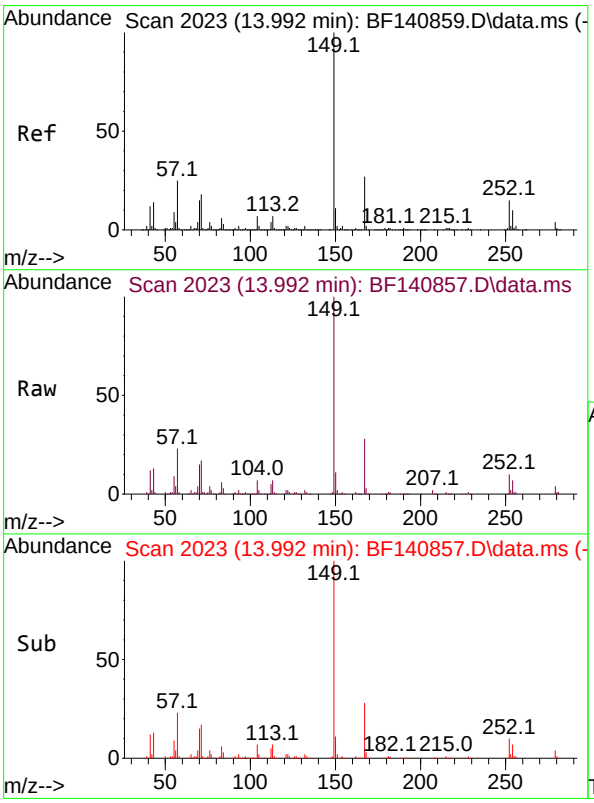
#83
Chrysene
Concen: 9.963 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 181387

Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	19.6	16.0	24.0

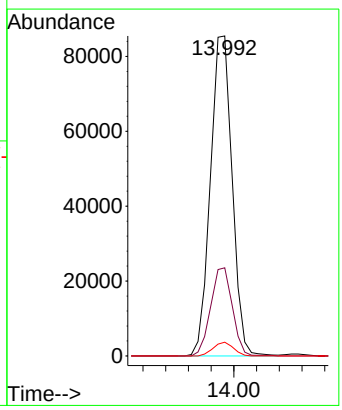


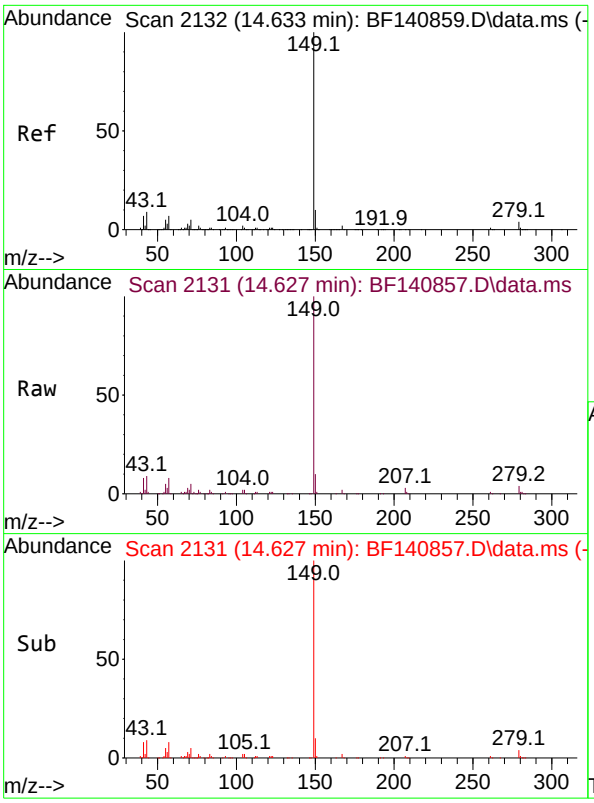


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.562 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 113963

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.8	32.8
279	4.3	3.5	5.3



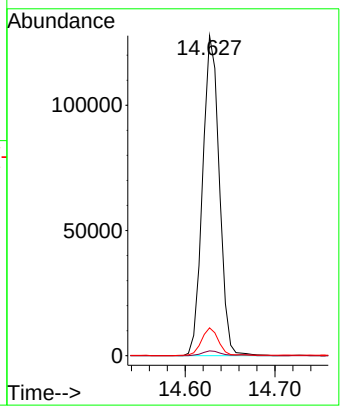


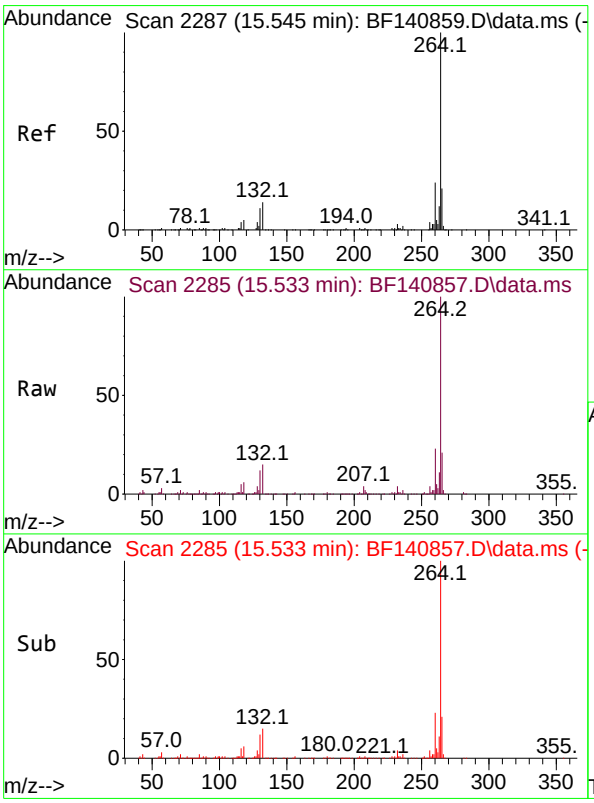
#85
Di-n-octyl phthalate
Concen: 9.161 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 165198

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.1	7.0	10.6

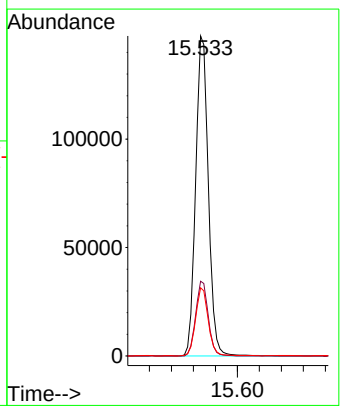


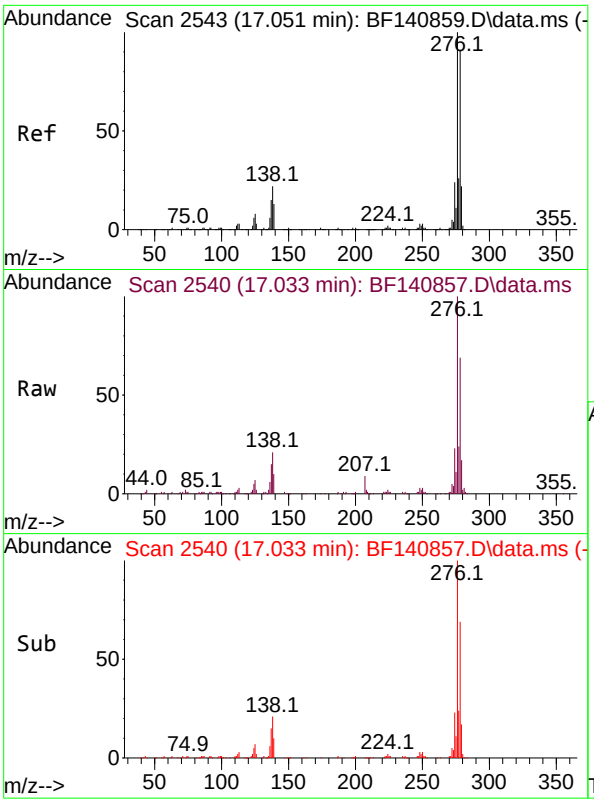


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:264 Resp: 236486

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.3	17.0	25.4



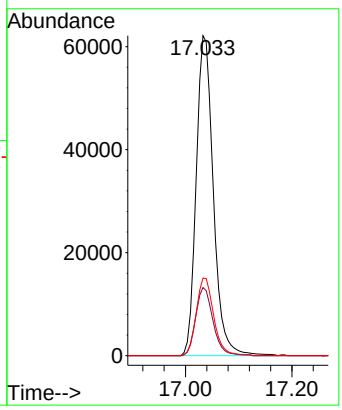


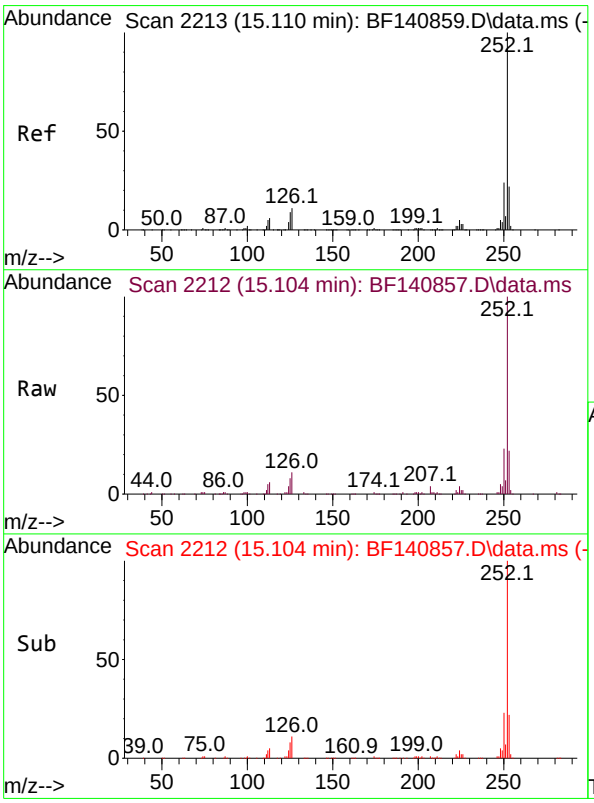
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.405 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 138792

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.9	25.3
277	24.7	20.2	30.4

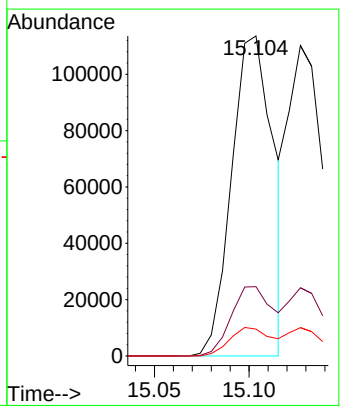


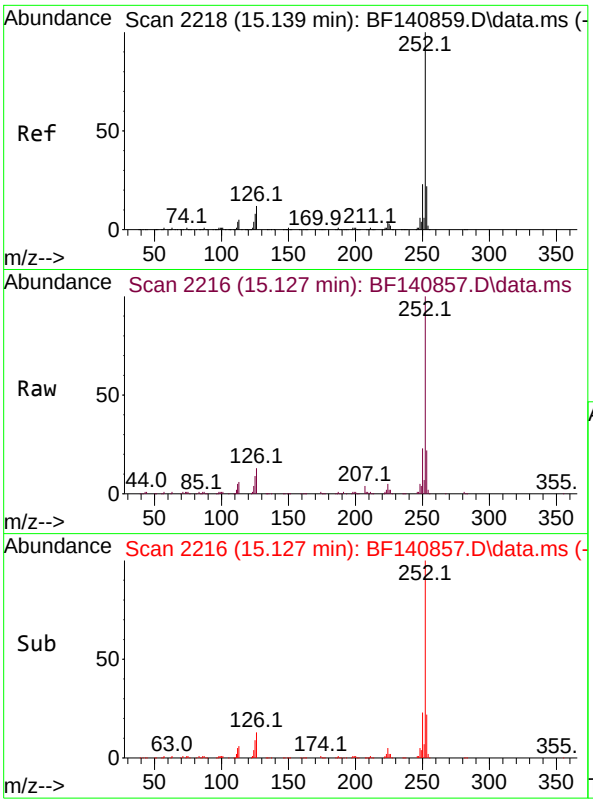


#88
Benzo(b)fluoranthene
Concen: 10.558 ng
RT: 15.104 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:252 Resp: 173313

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	8.4	7.0	10.4



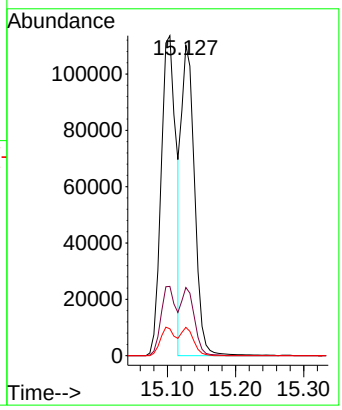


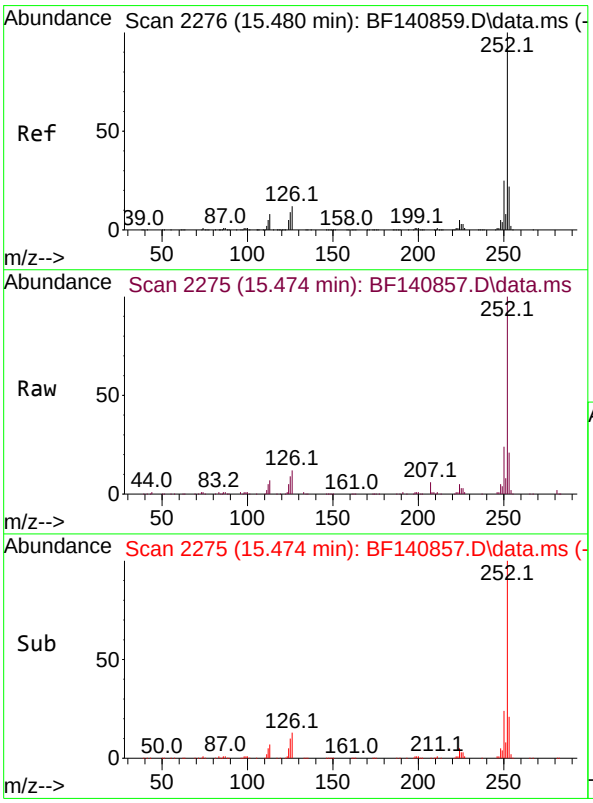
#89
Benzo(k)fluoranthene
Concen: 10.499 ng
RT: 15.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 147840

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.1	6.8	10.2

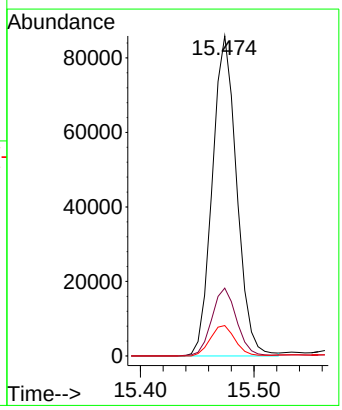


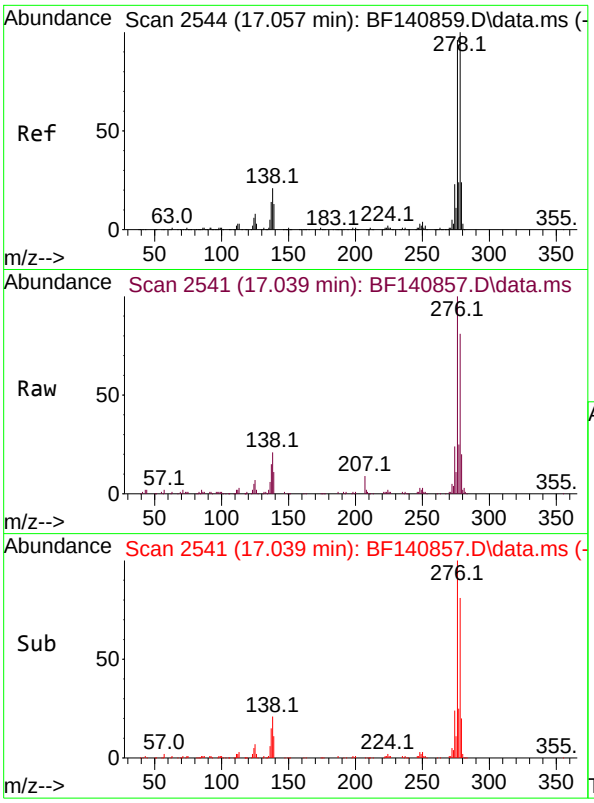


#90
Benzo(a)pyrene
Concen: 9.973 ng
RT: 15.474 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:252 Resp: 128194

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.5	26.3
125	9.5	7.5	11.3



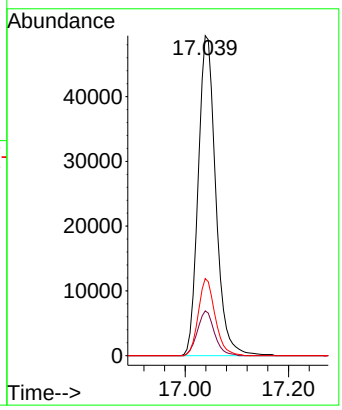


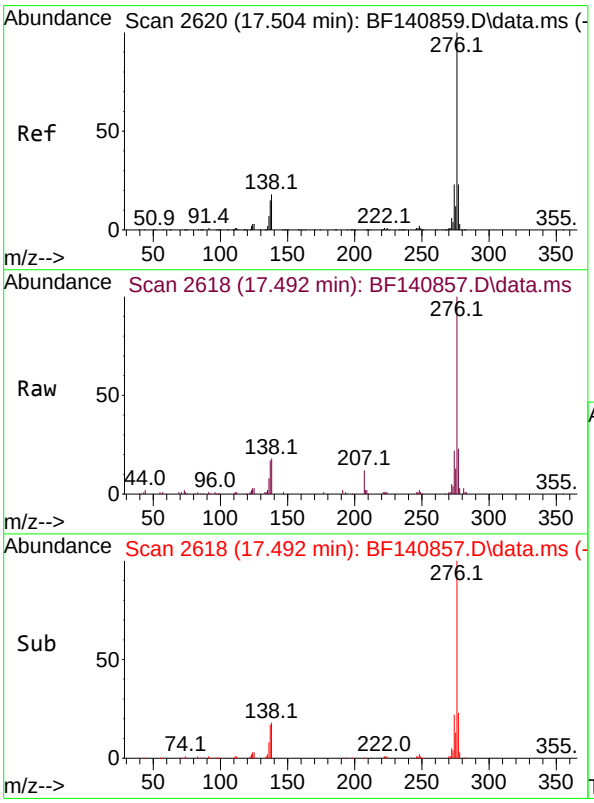
#91
Dibenzo(a,h)anthracene
Concen: 9.532 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 116533

Ion	Ratio	Lower	Upper
278	100		
139	14.0	10.6	16.0
279	24.1	19.2	28.8

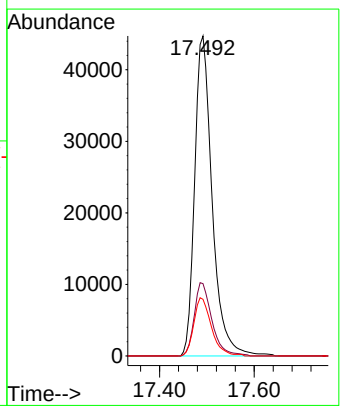




#92
Benzo(g,h,i)perylene
Concen: 9.240 ng
RT: 17.492 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:276 Resp: 114976

Ion	Ratio	Lower	Upper
276	100		
277	22.6	18.7	28.1
138	17.7	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140858.D
Acq On : 16 Dec 2024 14:00
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Dec 16 16:48:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.846	152	71395	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	269448	20.000	ng		0.00
39) Acenaphthene-d10	9.881	164	153586	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	299699	20.000	ng		0.00
76) Chrysene-d12	14.039	240	234229	20.000	ng		0.00
86) Perylene-d12	15.563	264	220576	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	182586	42.100	ng		0.00
7) Phenol-d6	6.493	99	237156	41.285	ng		0.00
23) Nitrobenzene-d5	7.410	82	226356	42.030	ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	74311	40.909	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	472330	42.281	ng		0.00
79) Terphenyl-d14	12.957	244	570640	38.416	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.622	88	38355	20.532	ng		96
3) Pyridine	3.405	79	91704	21.197	ng		99
4) n-Nitrosodimethylamine	3.340	42	44712	20.501	ng		97
6) Aniline	6.516	93	103355	21.043	ng	#	81
8) 2-Chlorophenol	6.640	128	96909	20.490	ng		98
9) Benzaldehyde	6.404	77	70862	22.263	ng		98
10) Phenol	6.510	94	123728	20.782	ng		90
11) bis(2-Chloroethyl)ether	6.581	93	91473	20.602	ng		98
12) 1,3-Dichlorobenzene	6.787	146	111145	20.624	ng		99
13) 1,4-Dichlorobenzene	6.863	146	113006	20.658	ng		98
14) 1,2-Dichlorobenzene	7.016	146	107719	20.870	ng		97
15) Benzyl Alcohol	6.998	79	88251	21.487	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	108472	20.739	ng		89
17) 2-Methylphenol	7.110	107	77132	20.427	ng		97
18) Hexachloroethane	7.351	117	41766	20.509	ng		97
19) n-Nitroso-di-n-propyla...	7.257	70	71344	20.705	ng		100
20) 3+4-Methylphenols	7.269	107	102814	20.534	ng	#	88
22) Acetophenone	7.257	105	140187	20.798	ng		98
24) Nitrobenzene	7.434	77	114486	20.750	ng		98
25) Isophorone	7.669	82	185900	20.601	ng		100
26) 2-Nitrophenol	7.751	139	52133	20.516	ng		99
27) 2,4-Dimethylphenol	7.787	122	60750	20.471	ng		98
28) bis(2-Chloroethoxy)met...	7.875	93	115605	20.512	ng		98
29) 2,4-Dichlorophenol	7.998	162	84299	20.575	ng		99
30) 1,2,4-Trichlorobenzene	8.069	180	96194	20.481	ng		99
31) Naphthalene	8.151	128	303425	20.500	ng		99
32) Benzoic acid	7.910	122	51770	18.394	ng		97
33) 4-Chloroaniline	8.204	127	101583	20.664	ng		99
34) Hexachlorobutadiene	8.263	225	65803	20.824	ng		99
35) Caprolactam	8.569	113	24344	19.958	ng		98
36) 4-Chloro-3-methylphenol	8.693	107	93611	20.300	ng		98
37) 2-Methylnaphthalene	8.840	142	199492	20.375	ng		100
38) 1-Methylnaphthalene	8.940	142	193053	19.937	ng		100
40) 1,2,4,5-Tetrachloroben...	9.004	216	98517	20.869	ng		99
41) Hexachlorocyclopentadiene	8.987	237	18486	21.391	ng		99
43) 2,4,6-Trichlorophenol	9.128	196	59284	20.509	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140858.D
Acq On : 16 Dec 2024 14:00
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Dec 16 16:48:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

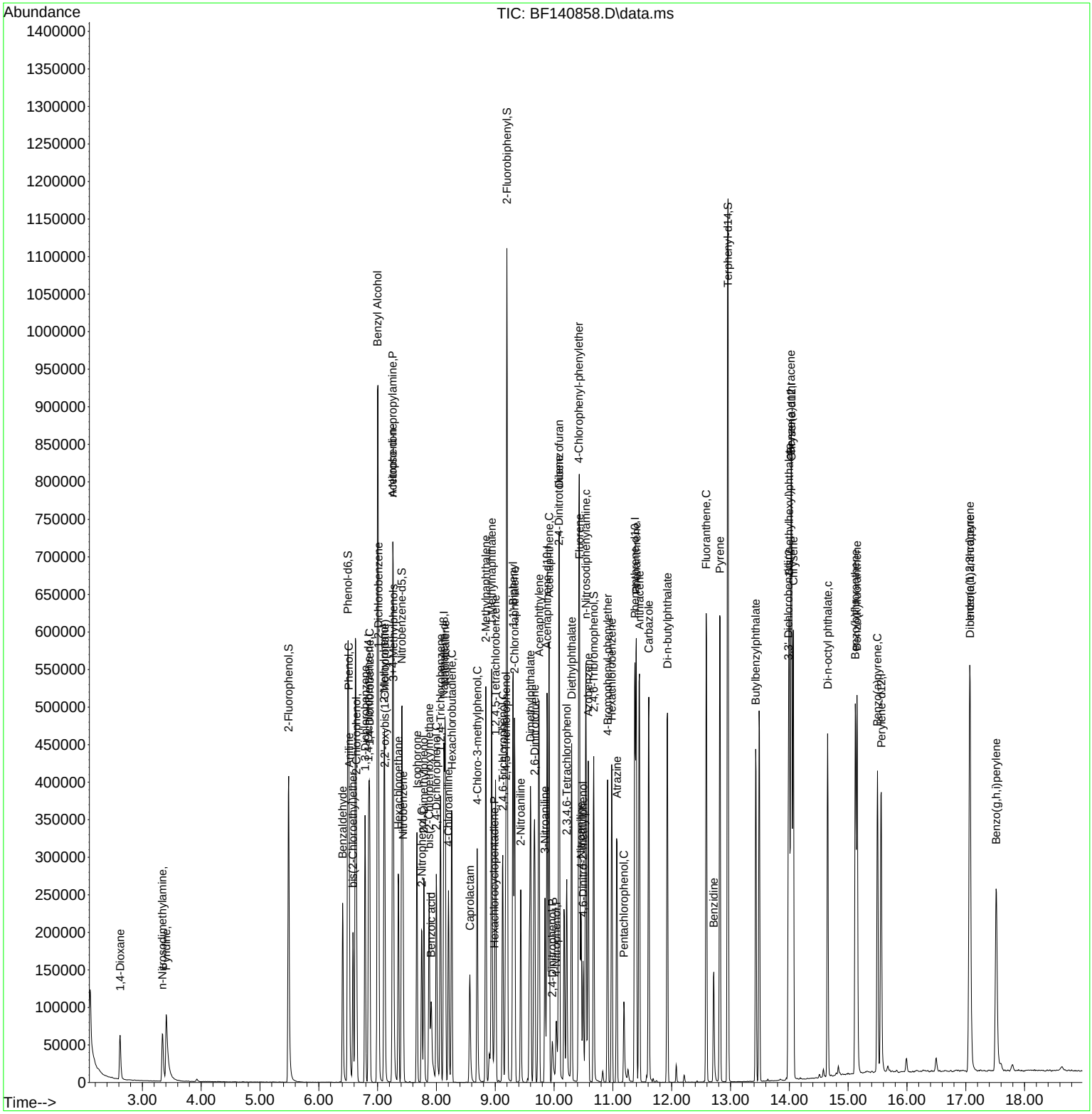
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	65450	20.600	ng	99
46) 1,1'-Biphenyl	9.304	154	251662	20.606	ng	98
47) 2-Chloronaphthalene	9.328	162	192611	20.615	ng	98
48) 2-Nitroaniline	9.434	65	57140	20.250	ng	99
49) Acenaphthylene	9.745	152	288710	21.027	ng	99
50) Dimethylphthalate	9.598	163	220880	20.399	ng	99
51) 2,6-Dinitrotoluene	9.669	165	50302	20.321	ng	97
52) Acenaphthene	9.916	154	179112	20.422	ng	99
53) 3-Nitroaniline	9.845	138	50453	20.538	ng	100
54) 2,4-Dinitrophenol	9.969	184	16571	19.139	ng	96
55) Dibenzofuran	10.087	168	281092	20.683	ng	98
56) 4-Nitrophenol	10.039	139	20392	19.017	ng	90
57) 2,4-Dinitrotoluene	10.081	165	67570	20.746	ng	100
58) Fluorene	10.434	166	229160	20.439	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	52966	20.459	ng	98
60) Diethylphthalate	10.298	149	229798	20.466	ng	100
61) 4-Chlorophenyl-phenyle...	10.422	204	116545	20.693	ng	97
62) 4-Nitroaniline	10.457	138	52016	20.263	ng	97
63) Azobenzene	10.581	77	214137	20.286	ng	99
65) 4,6-Dinitro-2-methylph...	10.492	198	32520	19.149	ng	93
66) n-Nitrosodiphenylamine	10.539	169	192873	20.932	ng	100
67) 4-Bromophenyl-phenylether	10.910	248	70804	21.118	ng	99
68) Hexachlorobenzene	10.981	284	80189	21.095	ng	99
69) Atrazine	11.069	200	57872	22.488	ng	99
70) Pentachlorophenol	11.186	266	24650m	17.726	ng	
71) Phenanthrene	11.398	178	321392	20.854	ng	100
72) Anthracene	11.451	178	315664	20.798	ng	99
73) Carbazole	11.610	167	307615	20.692	ng	99
74) Di-n-butylphthalate	11.928	149	369257	21.164	ng	99
75) Fluoranthene	12.586	202	374894	21.122	ng	100
77) Benzidine	12.716	184	93986	19.660	ng	99
78) Pyrene	12.822	202	386539	18.558	ng	99
80) Butylbenzylphthalate	13.427	149	145401	18.972	ng	97
81) Benzo(a)anthracene	14.027	228	332845	20.050	ng	99
82) 3,3'-Dichlorobenzidine	13.986	252	105124	20.989	ng	97
83) Chrysene	14.069	228	319417	21.160	ng	99
84) Bis(2-ethylhexyl)phtha...	13.998	149	204953	20.740	ng	97
85) Di-n-octyl phthalate	14.651	149	315841	21.125	ng	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	293402	21.315	ng	100
88) Benzo(b)fluoranthene	15.121	252	319848	20.890	ng	99
89) Benzo(k)fluoranthene	15.151	252	269871	20.548	ng	99
90) Benzo(a)pyrene	15.498	252	250110	20.861	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	240810	21.117	ng	99
92) Benzo(g,h,i)perylene	17.515	276	241228	20.785	ng	99

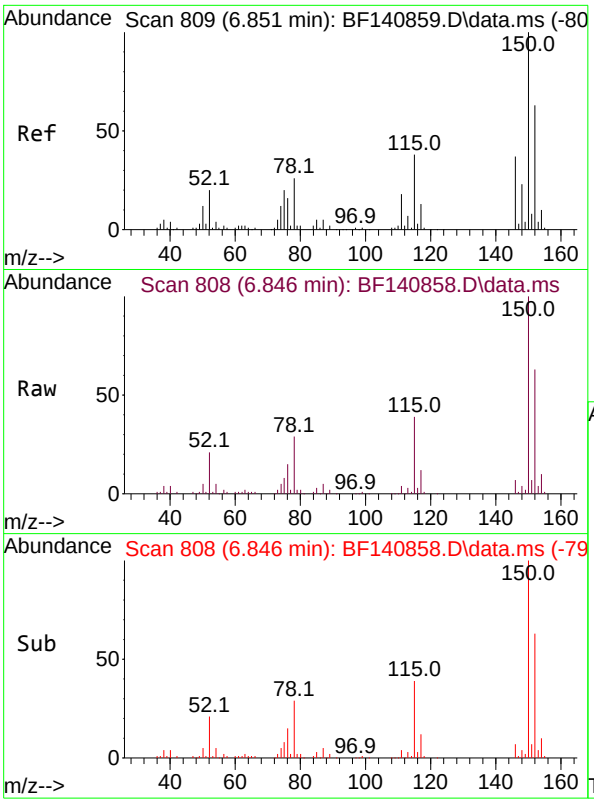
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140858.D
Acq On : 16 Dec 2024 14:00
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Dec 16 16:48:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



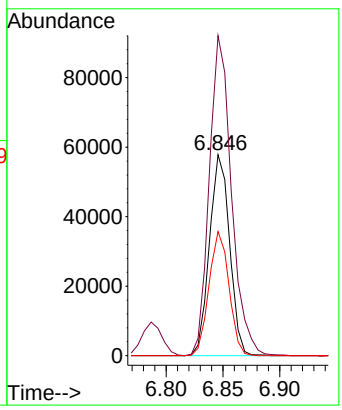


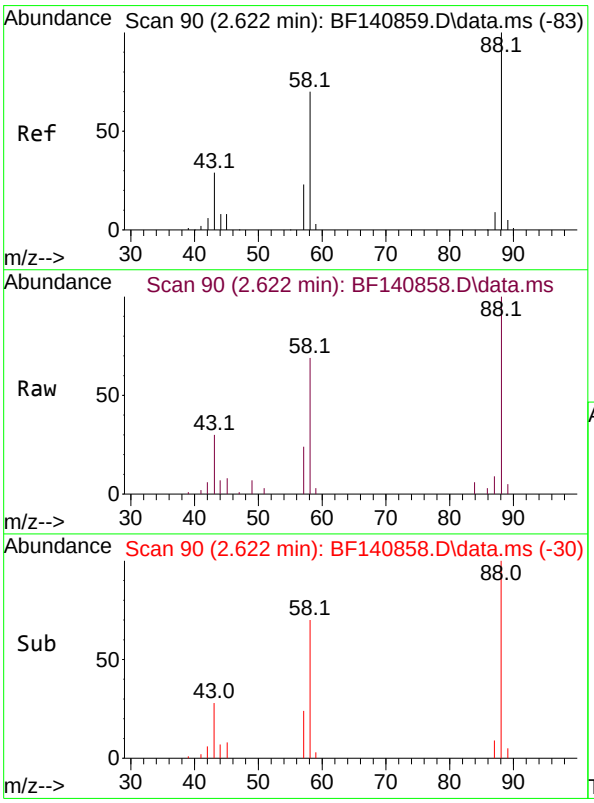
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 71395

Ion	Ratio	Lower	Upper
152	100		
150	159.2	127.9	191.9
115	61.8	48.0	72.0

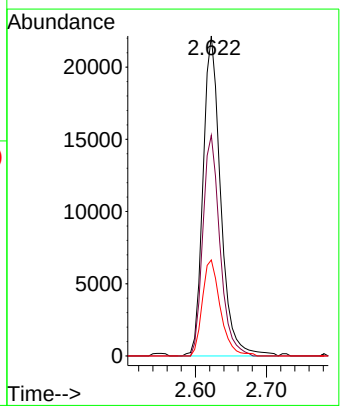


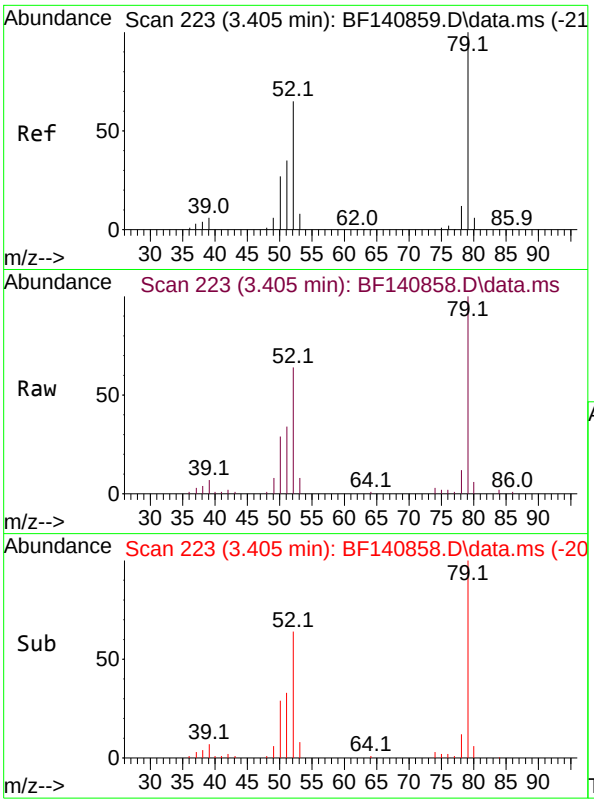


#2
1,4-Dioxane
Concen: 20.532 ng
RT: 2.622 min Scan# 90
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 88 Resp: 38355

Ion	Ratio	Lower	Upper
88	100		
58	66.7	55.8	83.8
43	30.7	22.7	34.1



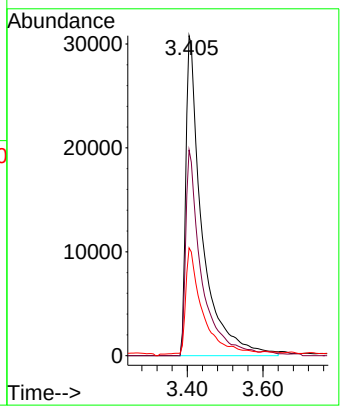


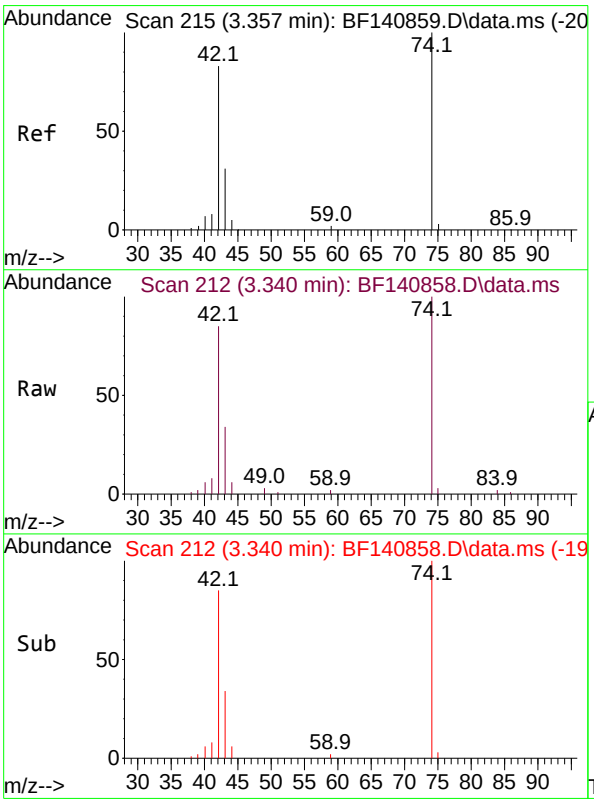
#3
Pyridine
Concen: 21.197 ng
RT: 3.405 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 91704

Ion	Ratio	Lower	Upper
79	100		
52	64.3	51.7	77.5
51	33.7	28.2	42.4

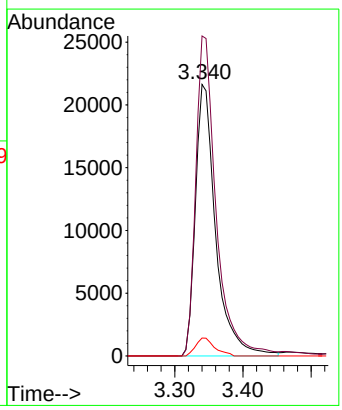


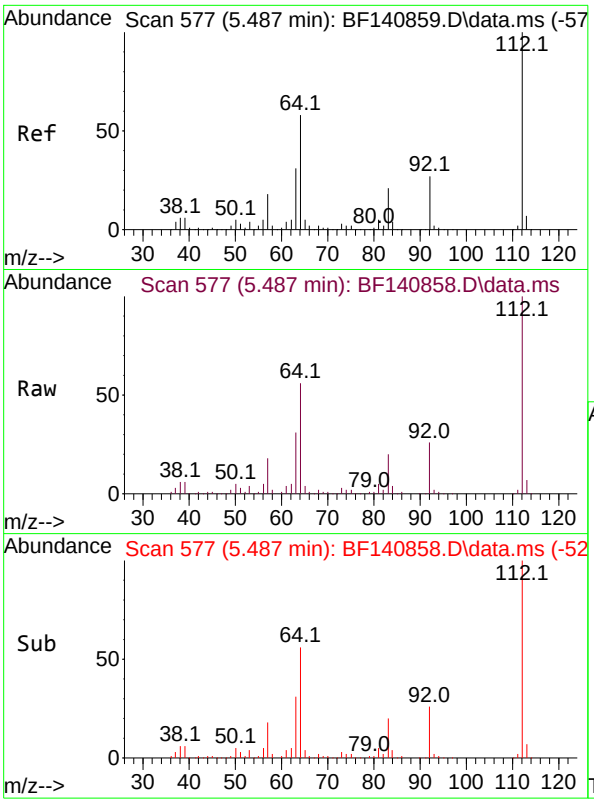


#4
n-Nitrosodimethylamine
Concen: 20.501 ng
RT: 3.340 min Scan# 212
Delta R.T. -0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 42 Resp: 44712

Ion	Ratio	Lower	Upper
42	100		
74	117.8	96.9	145.3
44	6.6	4.4	6.6



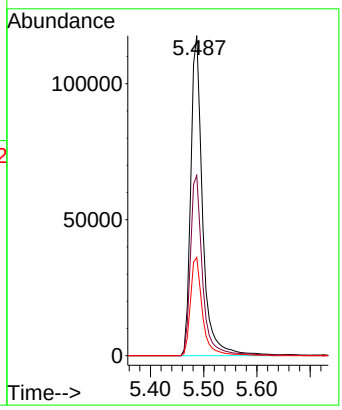


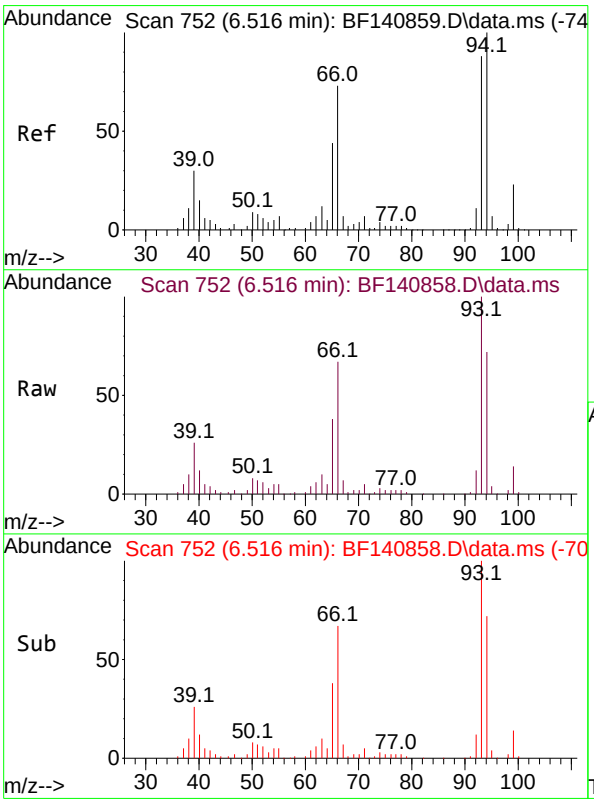
#5
2-Fluorophenol
Concen: 42.100 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 182586

Ion	Ratio	Lower	Upper
112	100		
64	56.3	46.1	69.1
63	30.7	24.9	37.3

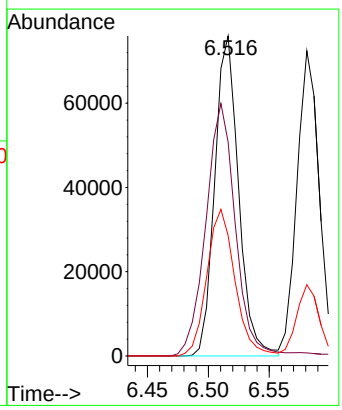


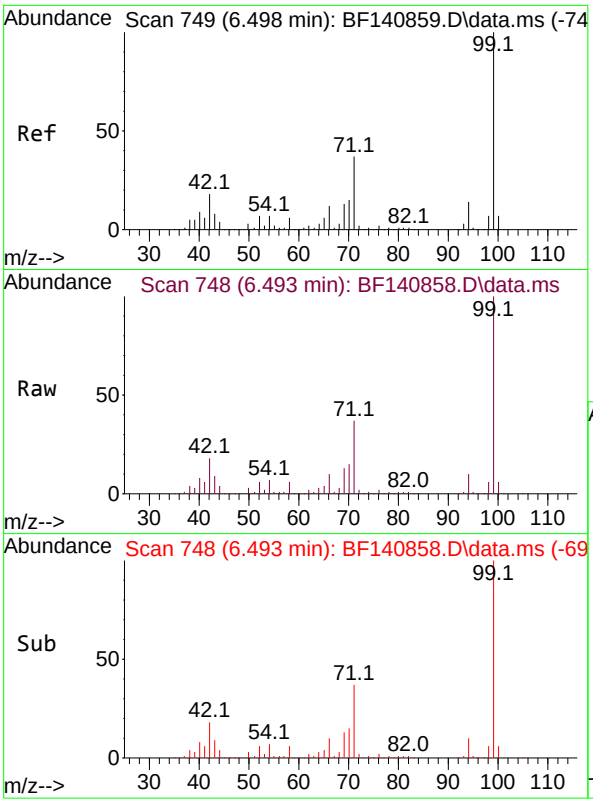


#6
Aniline
Concen: 21.043 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 93 Resp: 103355

Ion	Ratio	Lower	Upper
93	100		
66	66.9	67.0	100.4#
65	37.7	40.4	60.6#



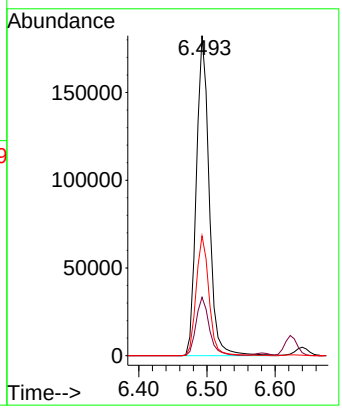


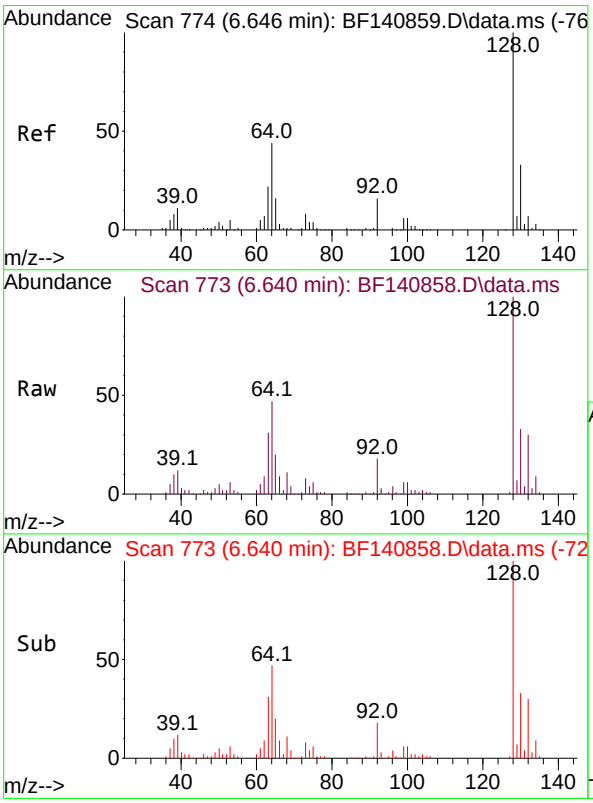
#7
Phenol-d6
Concen: 41.285 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 237156

Ion	Ratio	Lower	Upper
99	100		
42	18.3	14.3	21.5
71	37.4	29.9	44.9

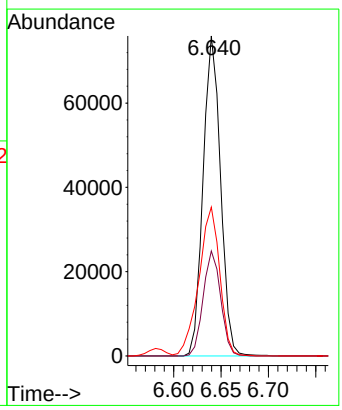


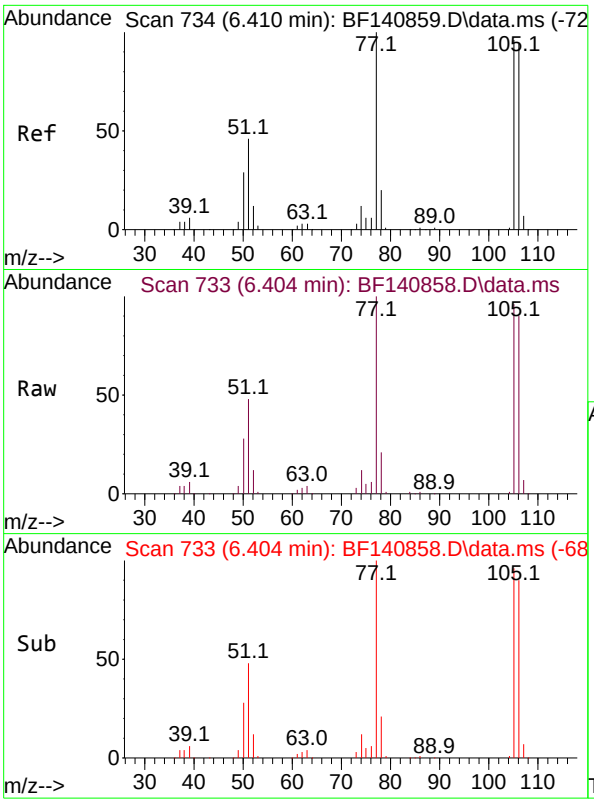


#8
2-Chlorophenol
Concen: 20.490 ng
RT: 6.640 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:128 Resp: 96909

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.9	52.9
64	46.5	24.3	64.3



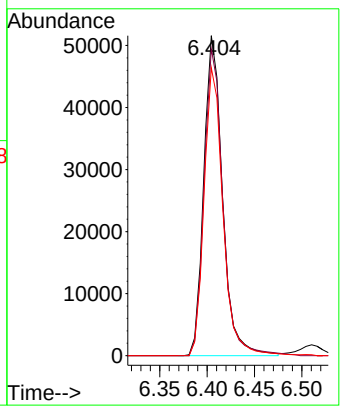


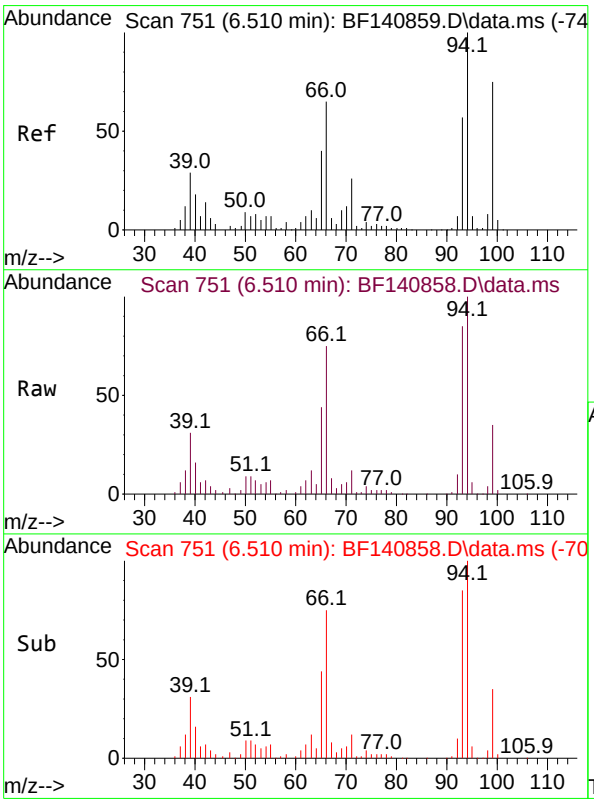
#9
Benzaldehyde
Concen: 22.263 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 70862

Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.8	115.8
106	89.9	74.1	114.1

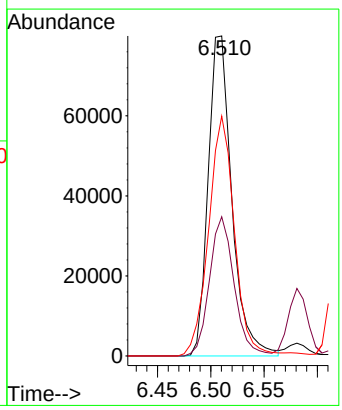


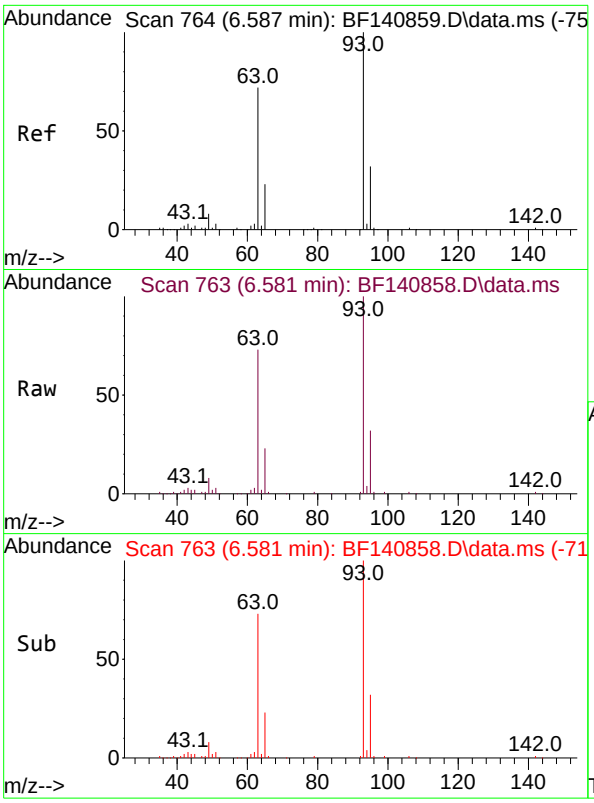


#10
Phenol
Concen: 20.782 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 94 Resp: 123728

Ion	Ratio	Lower	Upper
94	100		
65	43.5	19.9	59.9
66	75.0	45.6	85.6



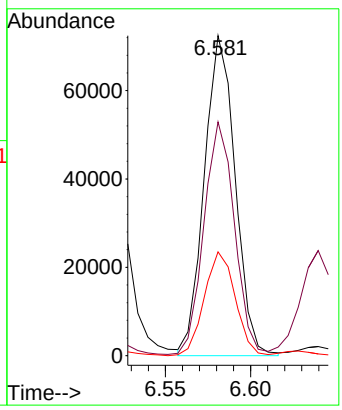


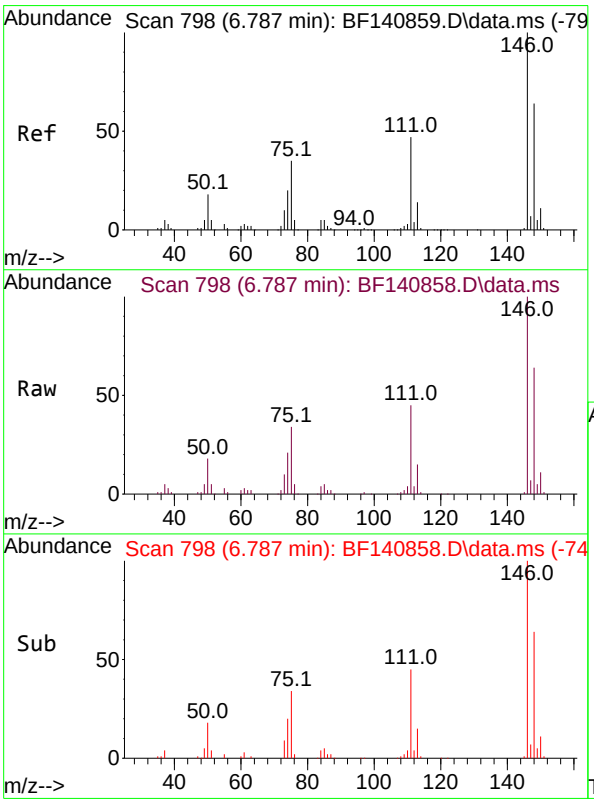
#11
bis(2-Chloroethyl)ether
Concen: 20.602 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 91473

Ion	Ratio	Lower	Upper
93	100		
63	73.0	51.0	91.0
95	32.5	12.0	52.0

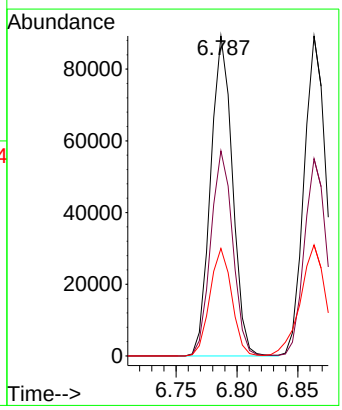


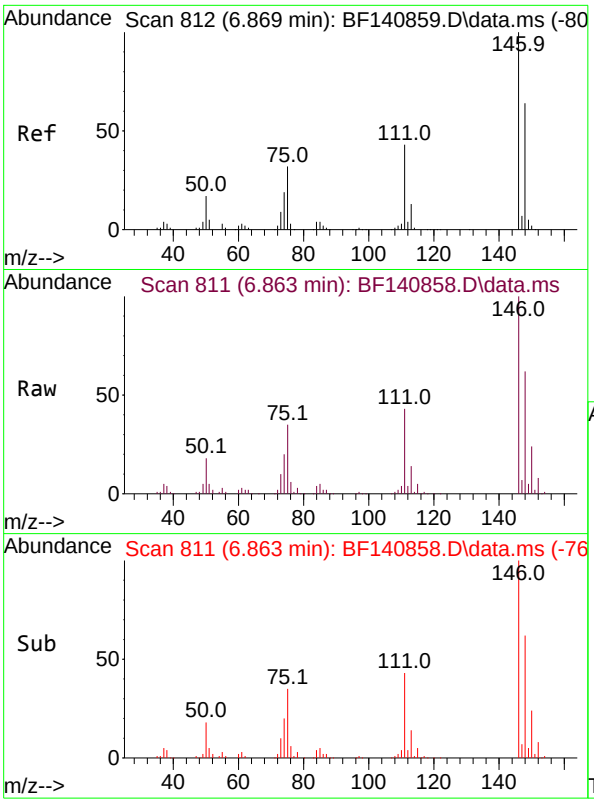


#12
1,3-Dichlorobenzene
Concen: 20.624 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:146 Resp: 111145

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
75	33.6	28.1	42.1



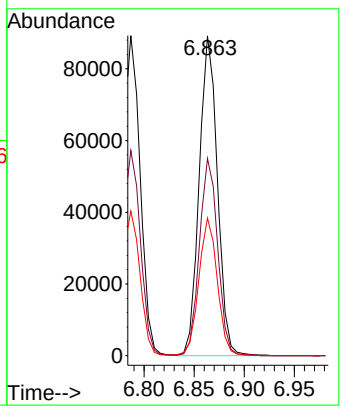


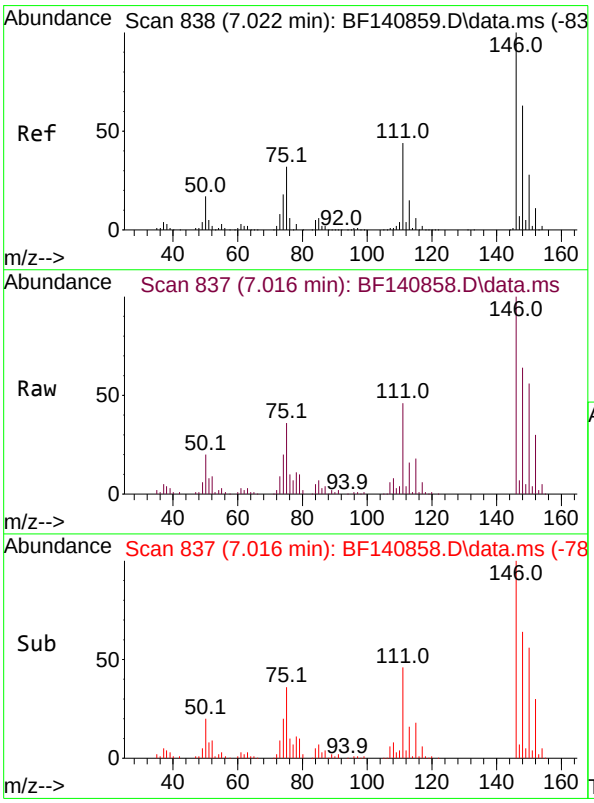
#13
1,4-Dichlorobenzene
Concen: 20.658 ng
RT: 6.863 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 113006

Ion	Ratio	Lower	Upper
146	100		
148	61.7	51.3	76.9
111	43.0	34.4	51.6

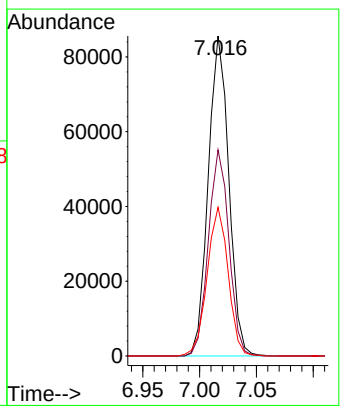


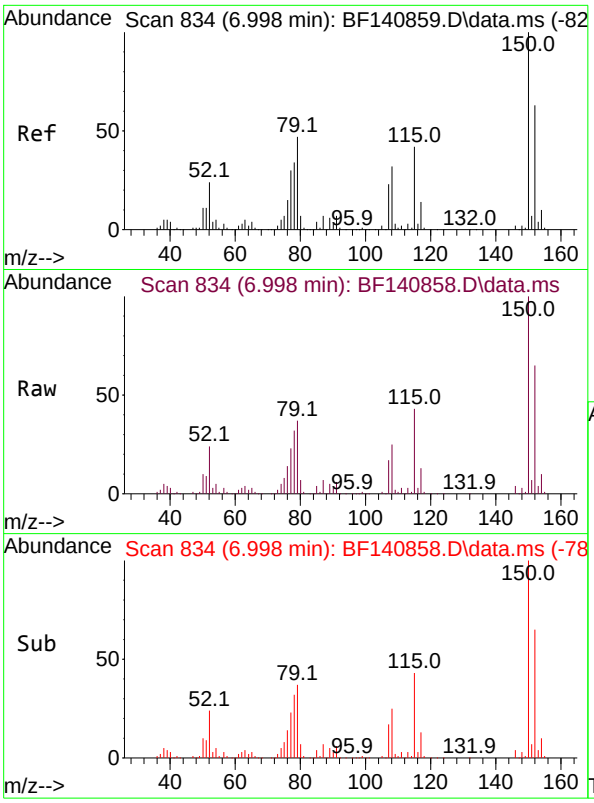


#14
1,2-Dichlorobenzene
Concen: 20.870 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:146 Resp: 107719

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.0	75.0
111	46.4	35.6	53.4



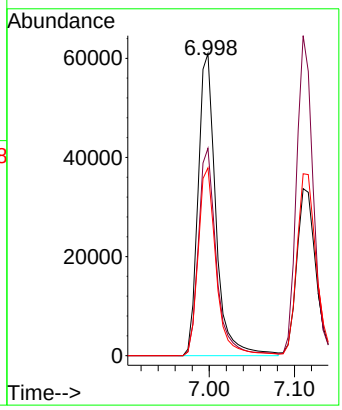


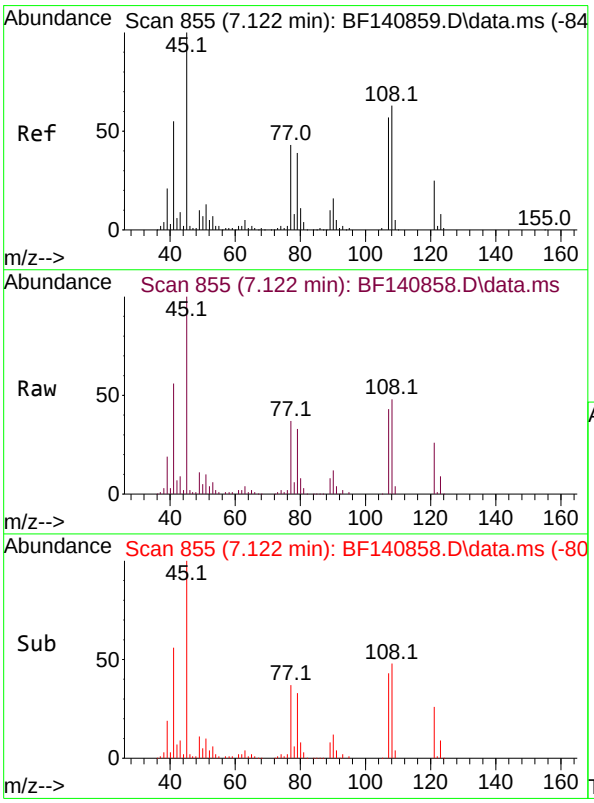
#15
Benzyl Alcohol
Concen: 21.487 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 88251

Ion	Ratio	Lower	Upper
79	100		
108	68.6	55.1	82.7
77	62.2	50.6	76.0

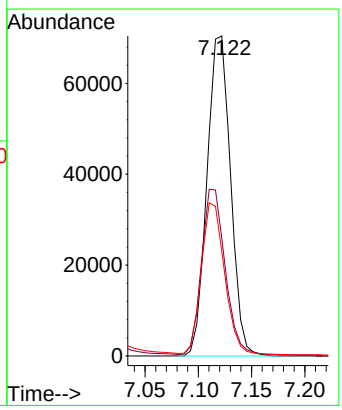


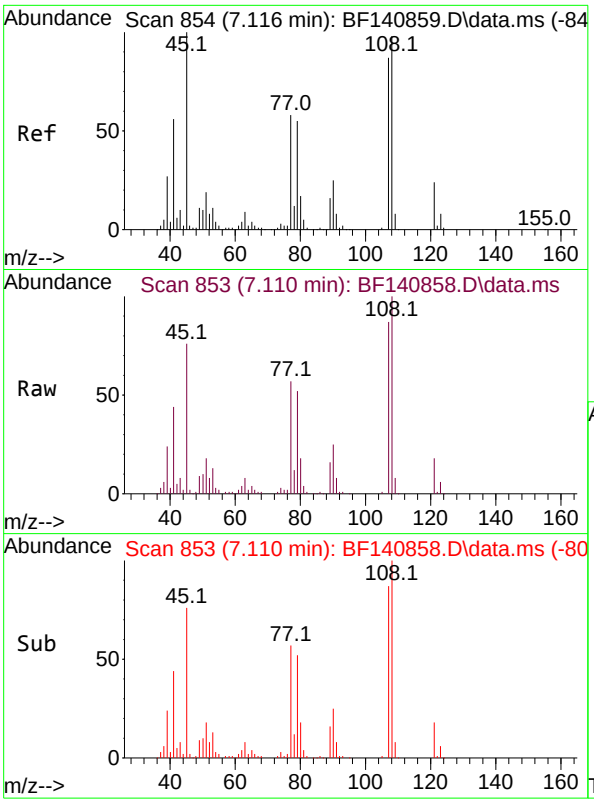


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.739 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 45 Resp: 108472

Ion	Ratio	Lower	Upper
45	100		
77	37.0	23.3	63.3
79	32.9	20.0	60.0



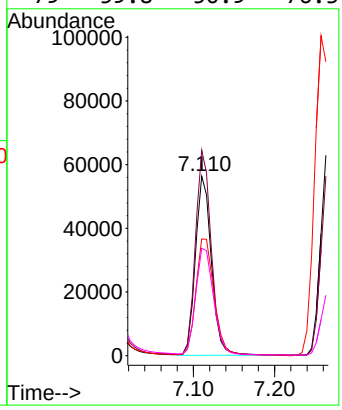


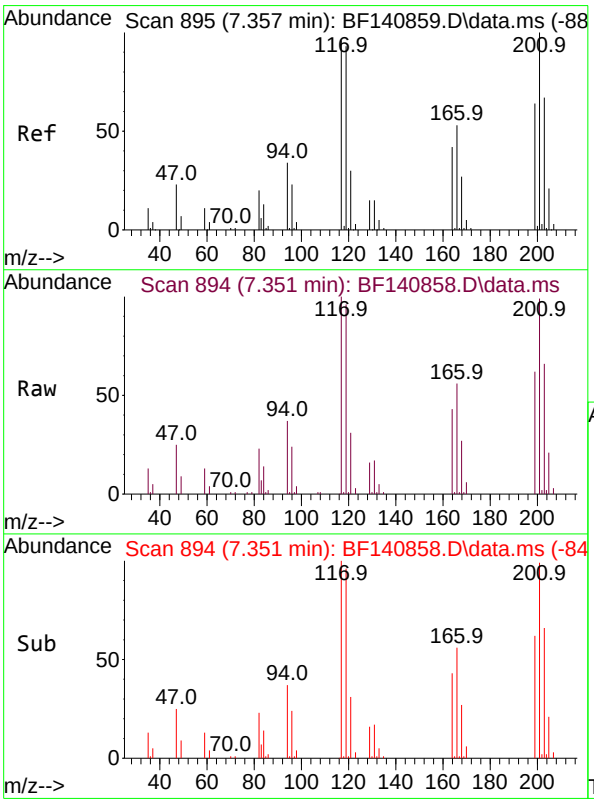
#17
2-Methylphenol
Concen: 20.427 ng
RT: 7.110 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 77132

Ion	Ratio	Lower	Upper
107	100		
108	114.5	90.2	135.4
77	65.1	53.8	80.6
79	59.8	50.9	76.3

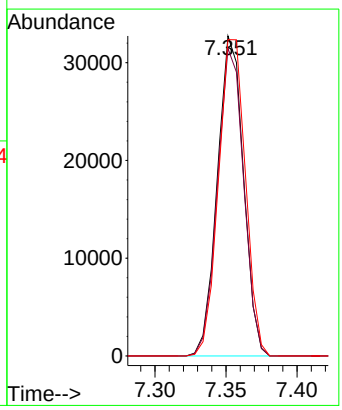


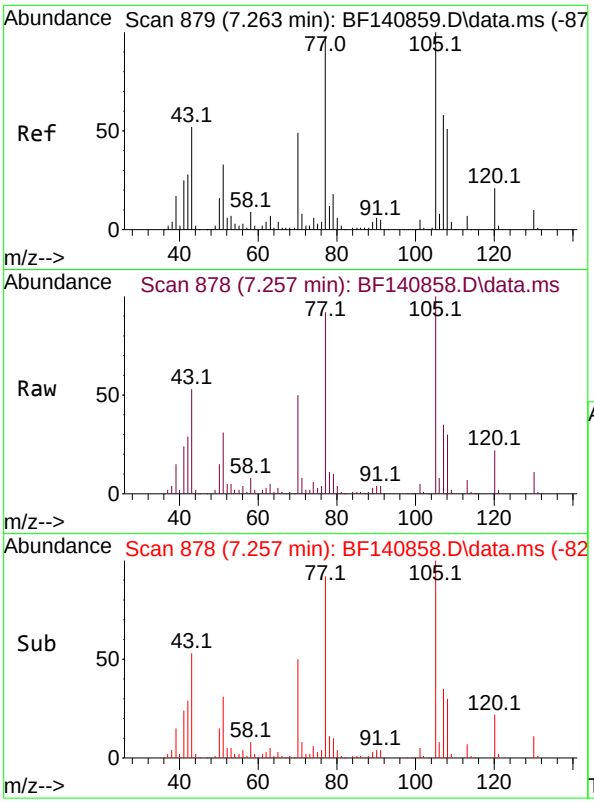


#18
Hexachloroethane
Concen: 20.509 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:117 Resp: 41766

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.4	116.0
201	98.9	83.4	125.0



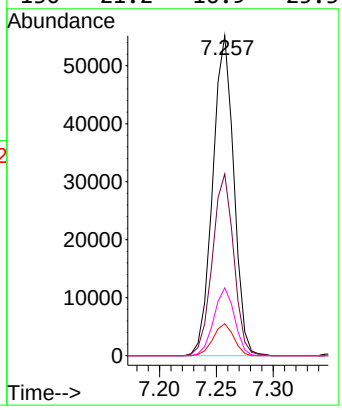


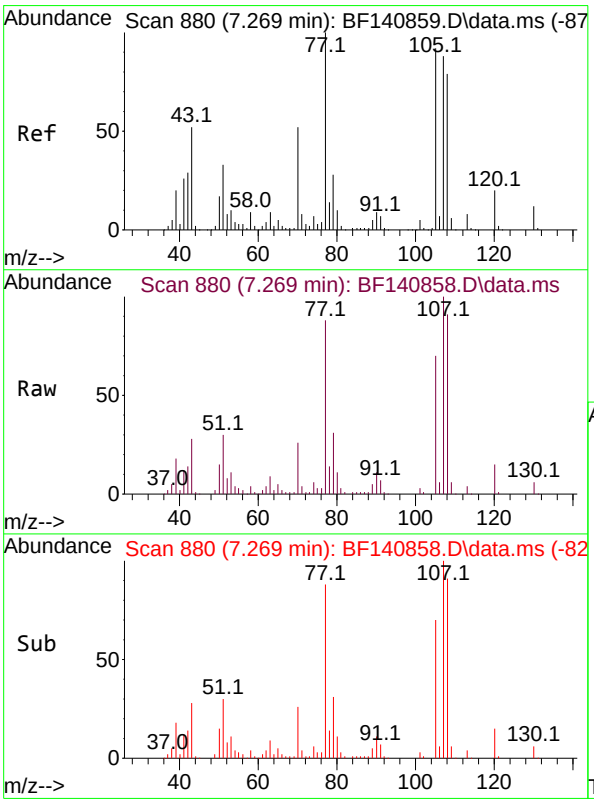
#19
n-Nitroso-di-n-propylamine
Concen: 20.705 ng
RT: 7.257 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 71344

Ion	Ratio	Lower	Upper
70	100		
42	56.8	45.3	67.9
101	10.0	8.0	12.0
130	21.2	16.9	25.3

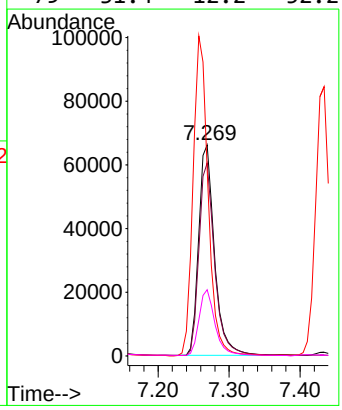


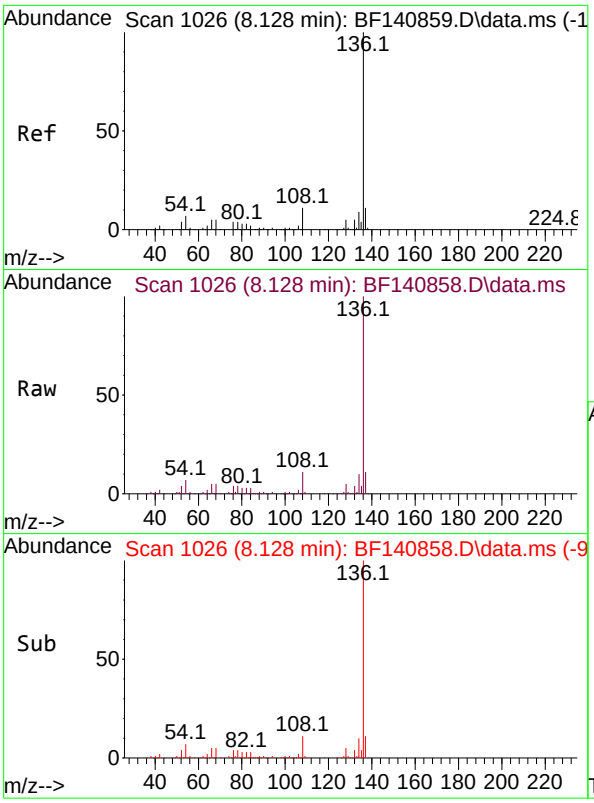


#20
3+4-Methylphenols
Concen: 20.534 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:107 Resp: 102814

Ion	Ratio	Lower	Upper
107	100		
108	91.5	70.1	110.1
77	88.5	94.4	134.4#
79	31.4	12.2	52.2



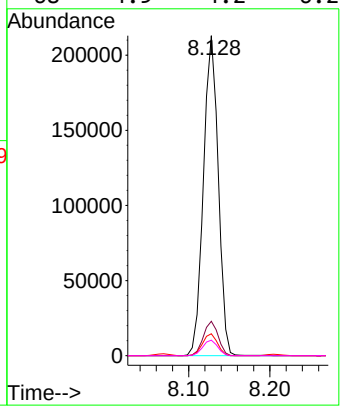


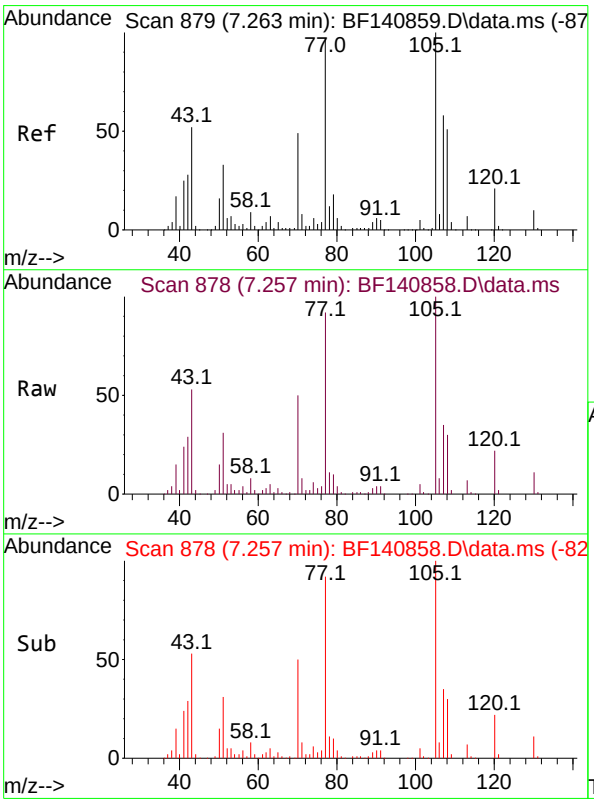
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 269448

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.8	5.6	8.4
68	4.9	4.2	6.2

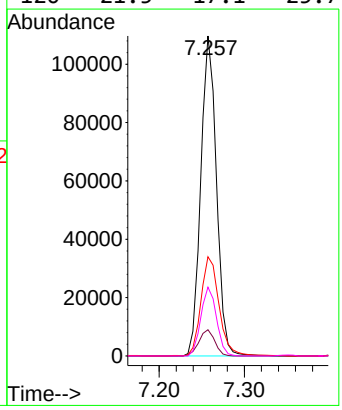


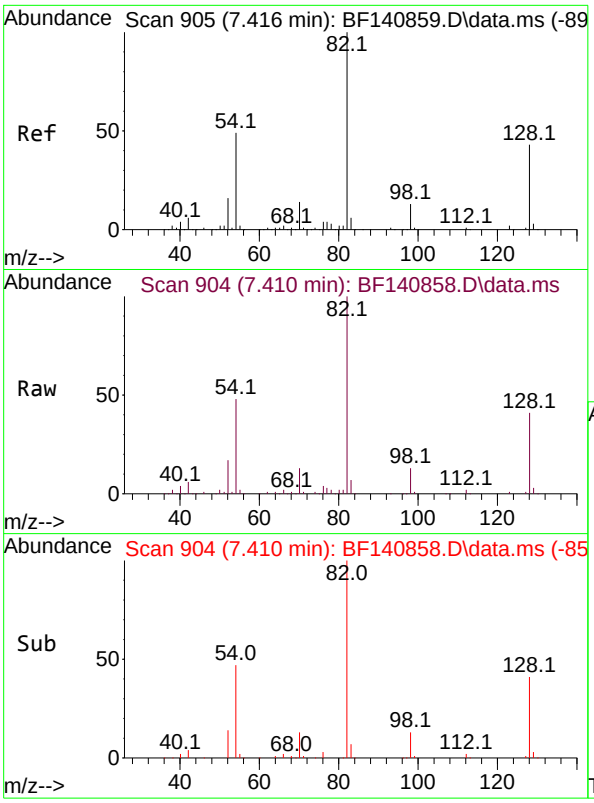


#22
Acetophenone
Concen: 20.798 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:105 Resp: 140187

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.2	9.4
51	31.0	26.3	39.5
120	21.5	17.1	25.7



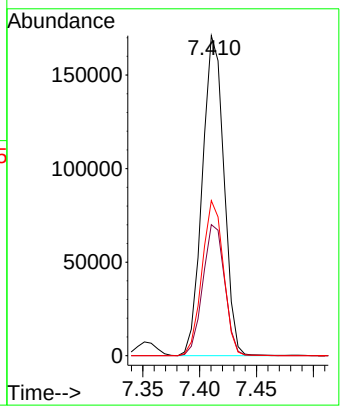


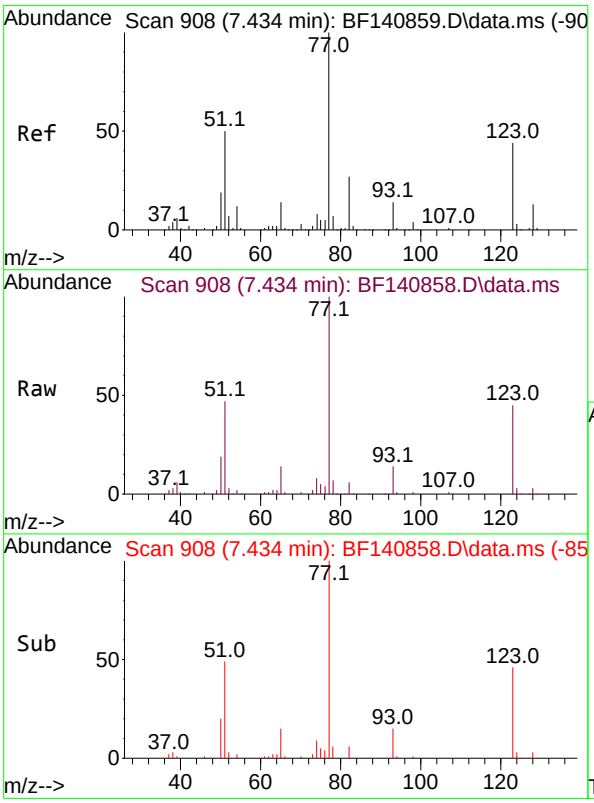
#23
Nitrobenzene-d5
Concen: 42.030 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 226356

Ion	Ratio	Lower	Upper
82	100		
128	40.9	34.4	51.6
54	48.5	38.8	58.2

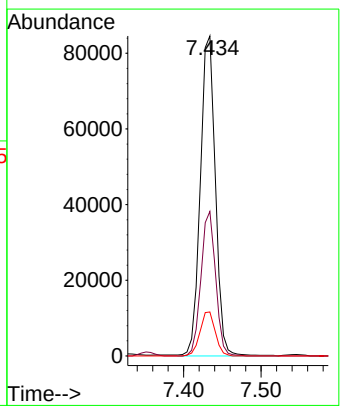


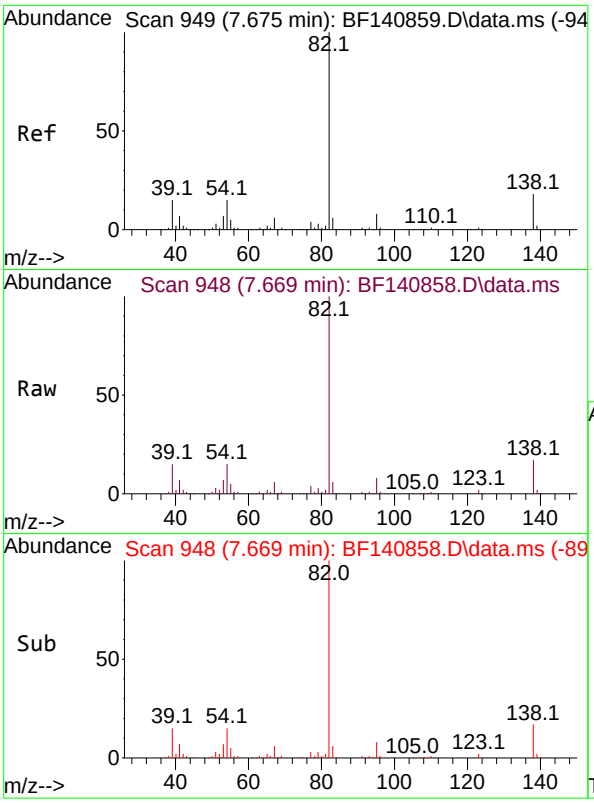


#24
Nitrobenzene
Concen: 20.750 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 77 Resp: 114486

Ion	Ratio	Lower	Upper
77	100		
123	45.2	35.0	52.4
65	13.7	11.4	17.0



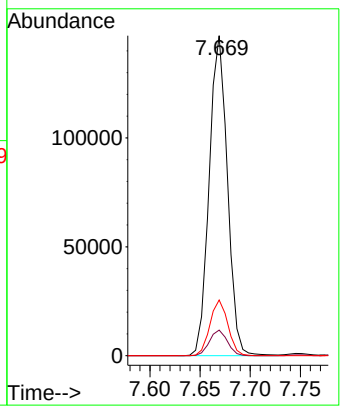


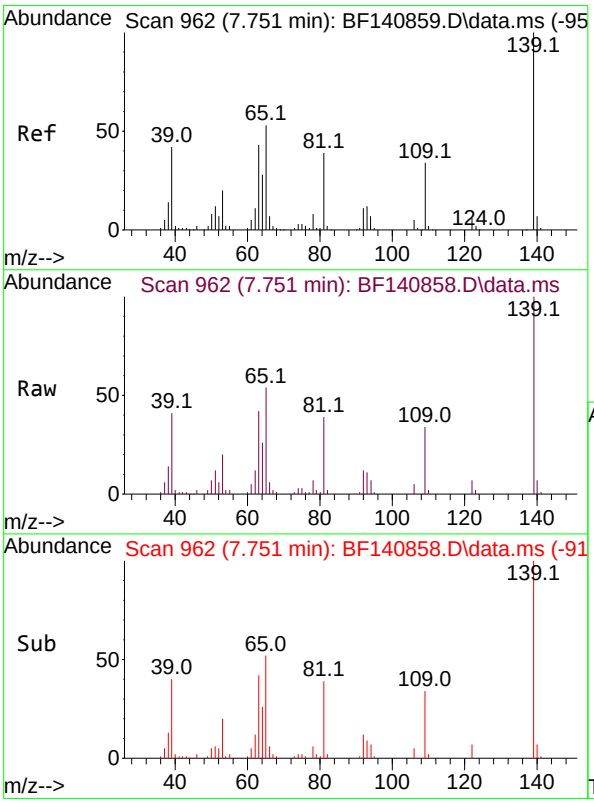
#25
Isophorone
Concen: 20.601 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 185900

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	17.4	14.1	21.1

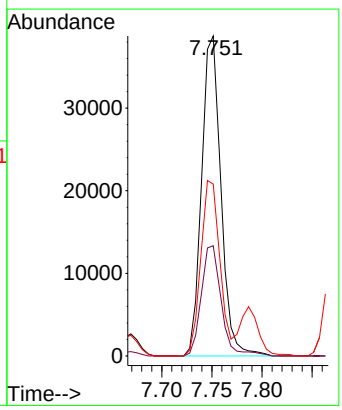


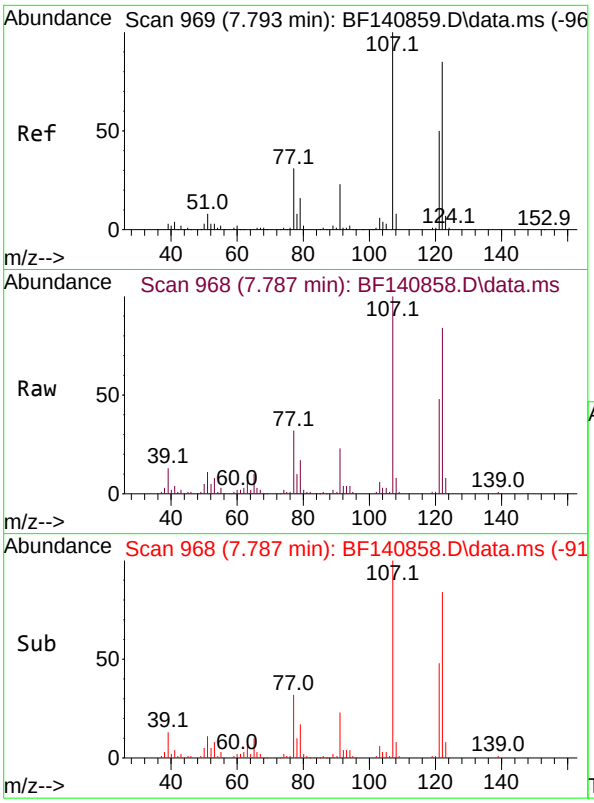


#26
2-Nitrophenol
Concen: 20.516 ng
RT: 7.751 min Scan# 962
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:139 Resp: 52133

Ion	Ratio	Lower	Upper
139	100		
109	34.5	26.9	40.3
65	53.7	42.6	64.0



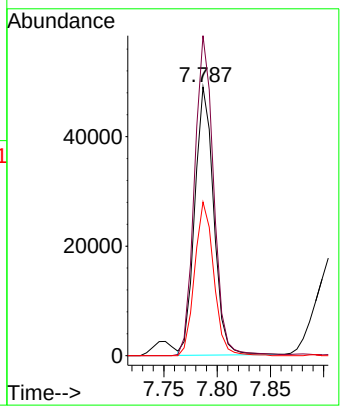


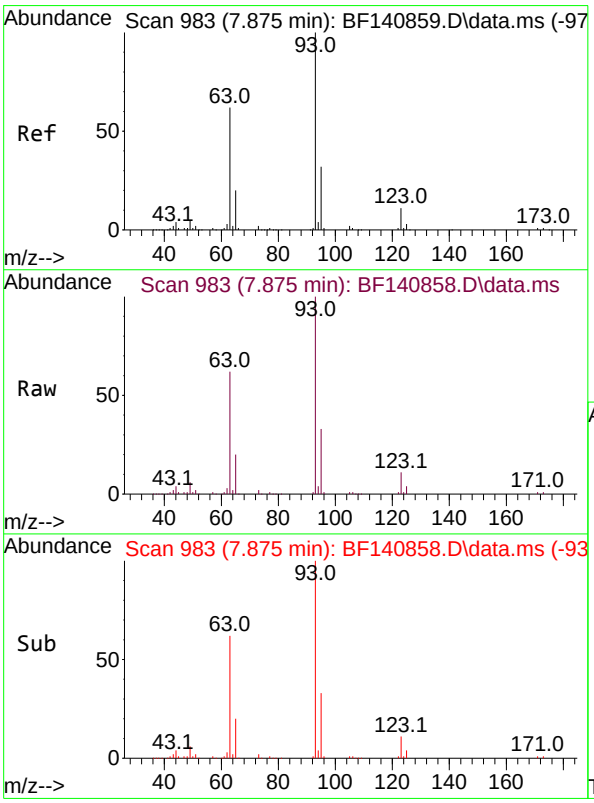
#27
2,4-Dimethylphenol
Concen: 20.471 ng
RT: 7.787 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 60750

Ion	Ratio	Lower	Upper
122	100		
107	119.1	92.6	139.0
121	57.2	45.8	68.8

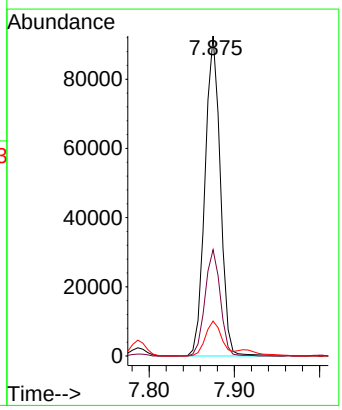


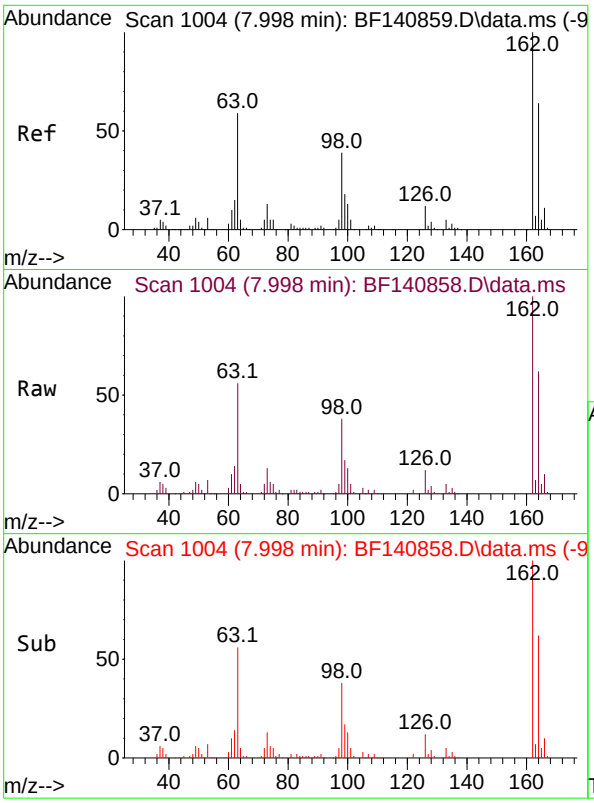


#28
bis(2-Chloroethoxy)methane
Concen: 20.512 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 93 Resp: 115605

Ion	Ratio	Lower	Upper
93	100		
95	33.2	25.3	37.9
123	10.9	8.6	13.0



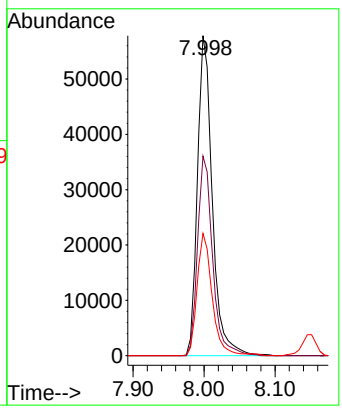


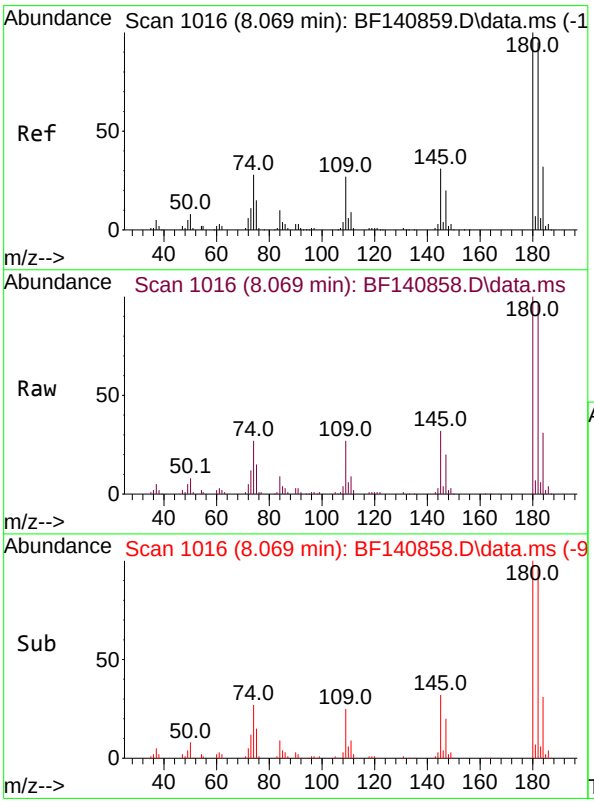
#29
2,4-Dichlorophenol
Concen: 20.575 ng
RT: 7.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 84299

Ion	Ratio	Lower	Upper
162	100		
164	62.3	43.7	83.7
98	38.2	18.6	58.6

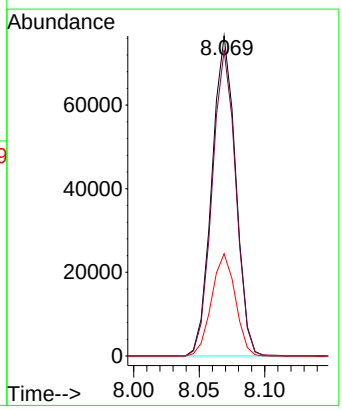


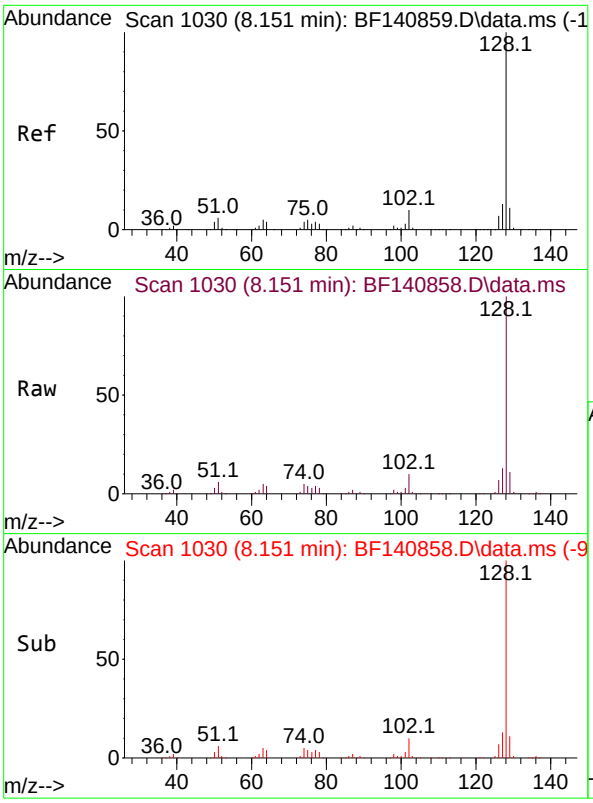


#30
1,2,4-Trichlorobenzene
Concen: 20.481 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:180 Resp: 96194

Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.8	113.6
145	31.9	25.2	37.8



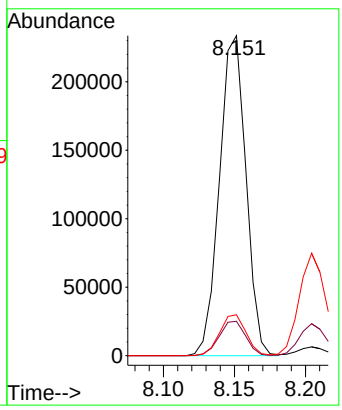


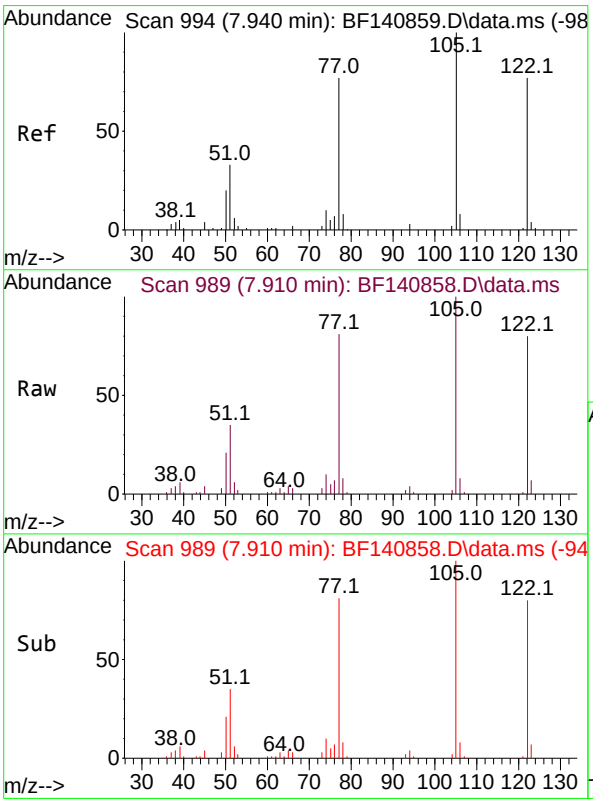
#31
Naphthalene
Concen: 20.500 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 303425

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	12.8	10.6	16.0

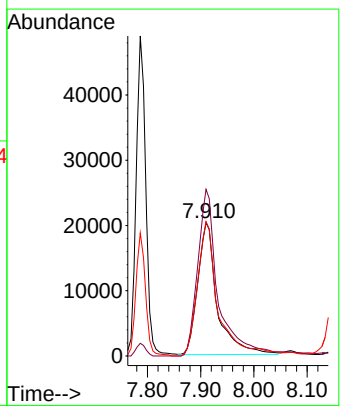


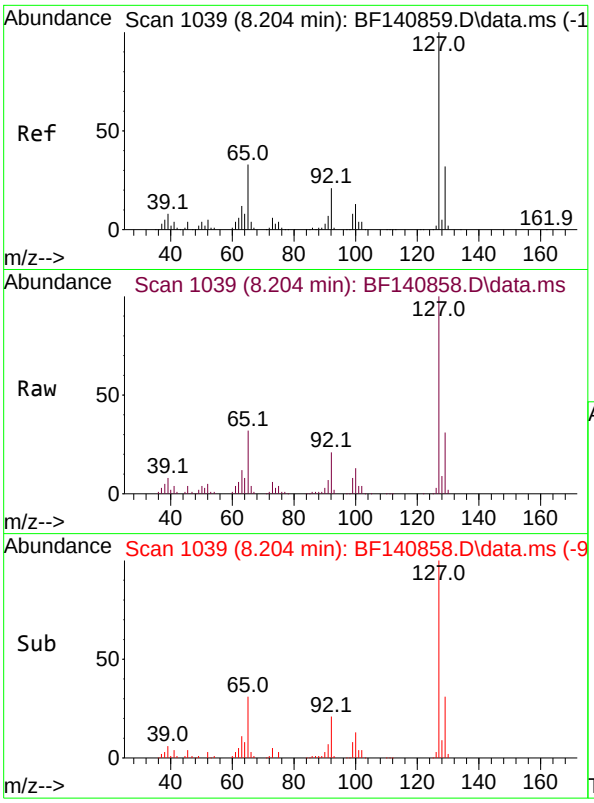


#32
Benzoic acid
Concen: 18.394 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.030 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:122 Resp: 51770

Ion	Ratio	Lower	Upper
122	100		
105	125.0	108.3	148.3
77	100.9	78.8	118.8



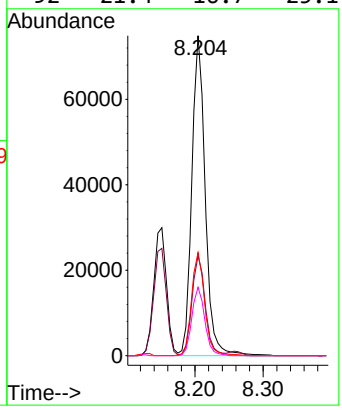


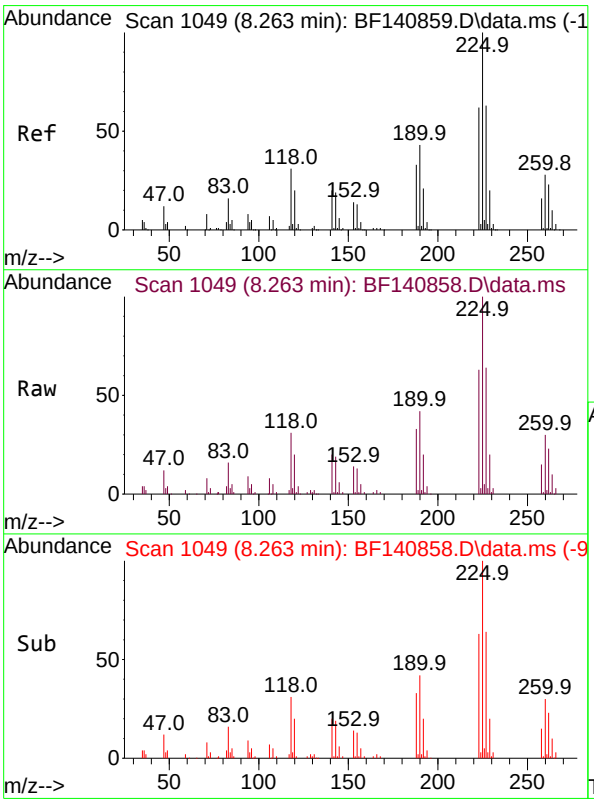
#33
4-Chloroaniline
Concen: 20.664 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 101583

Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.0	39.0
65	32.3	26.0	39.0
92	21.4	16.7	25.1

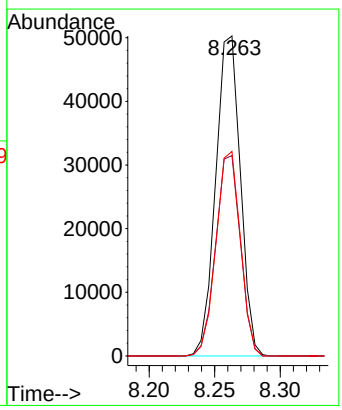


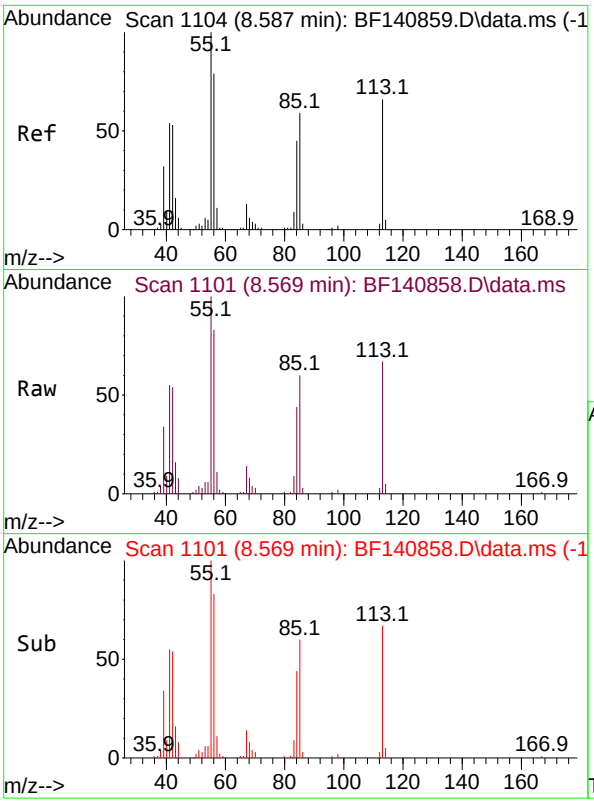


#34
Hexachlorobutadiene
Concen: 20.824 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:225 Resp: 65803

Ion	Ratio	Lower	Upper
225	100		
223	62.6	49.6	74.4
227	63.9	50.7	76.1



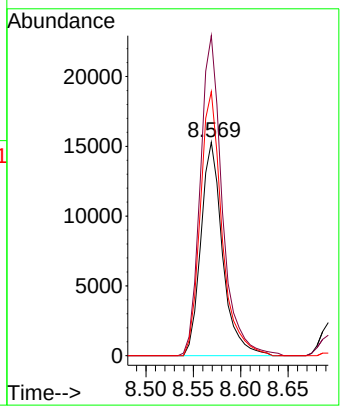


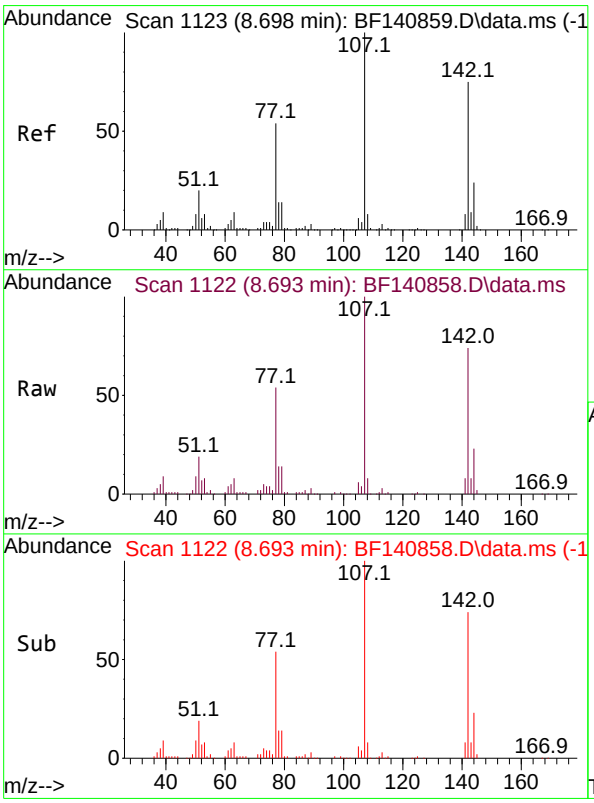
#35
Caprolactam
Concen: 19.958 ng
RT: 8.569 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 24344

Ion	Ratio	Lower	Upper
113	100		
55	149.9	132.3	172.3
56	123.7	100.3	140.3

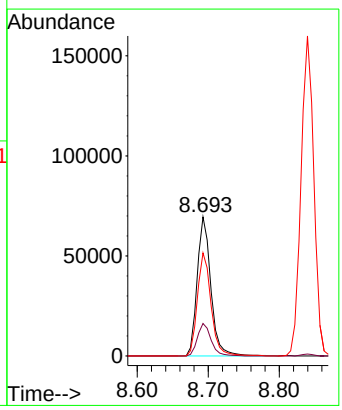


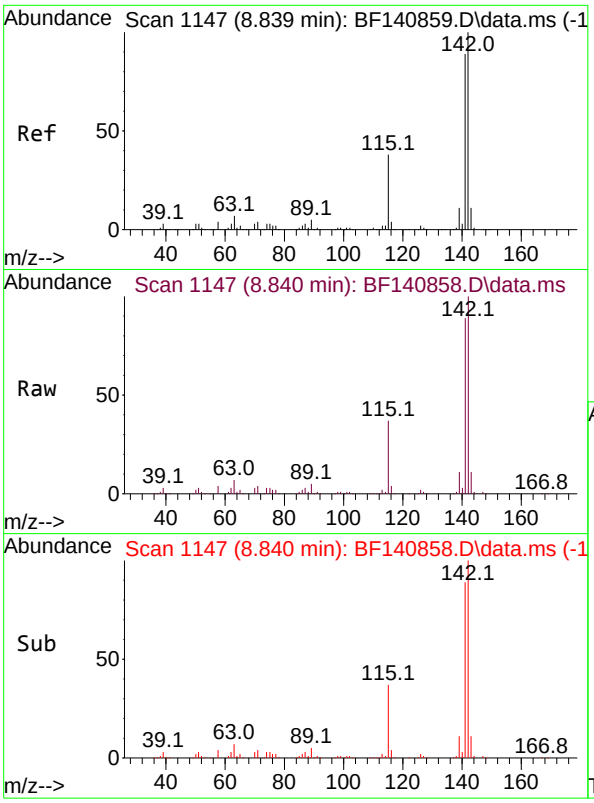


#36
4-Chloro-3-methylphenol
Concen: 20.300 ng
RT: 8.693 min Scan# 1122
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:107 Resp: 93611

Ion	Ratio	Lower	Upper
107	100		
144	23.4	19.4	29.2
142	74.1	60.3	90.5



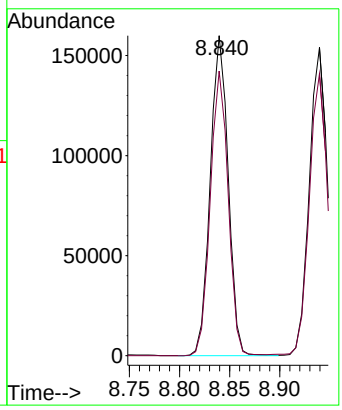


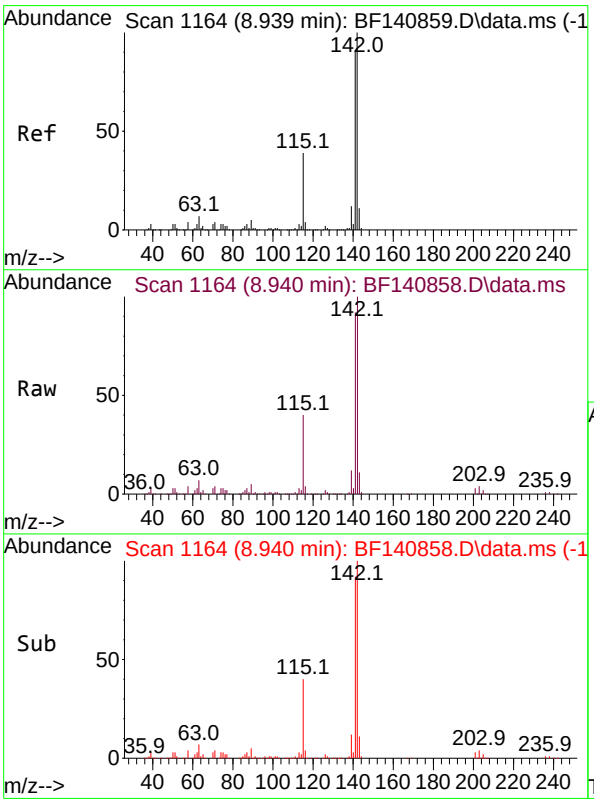
#37
2-Methylnaphthalene
Concen: 20.375 ng
RT: 8.840 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 199492

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.0	106.6

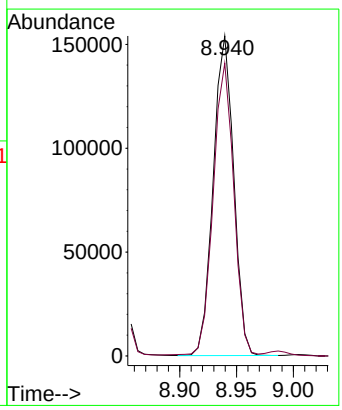


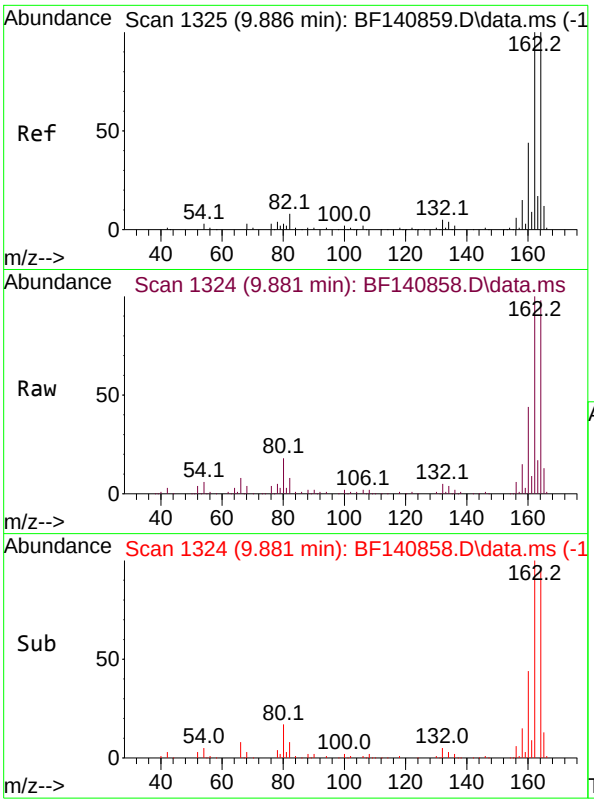


#38
1-Methylnaphthalene
Concen: 19.937 ng
RT: 8.940 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:142 Resp: 193053

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.4	110.0



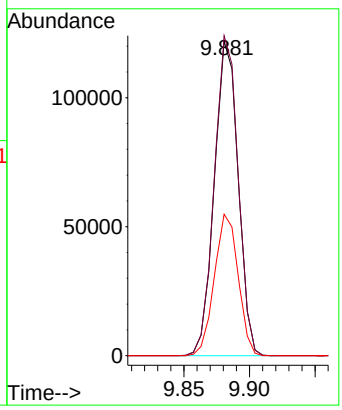


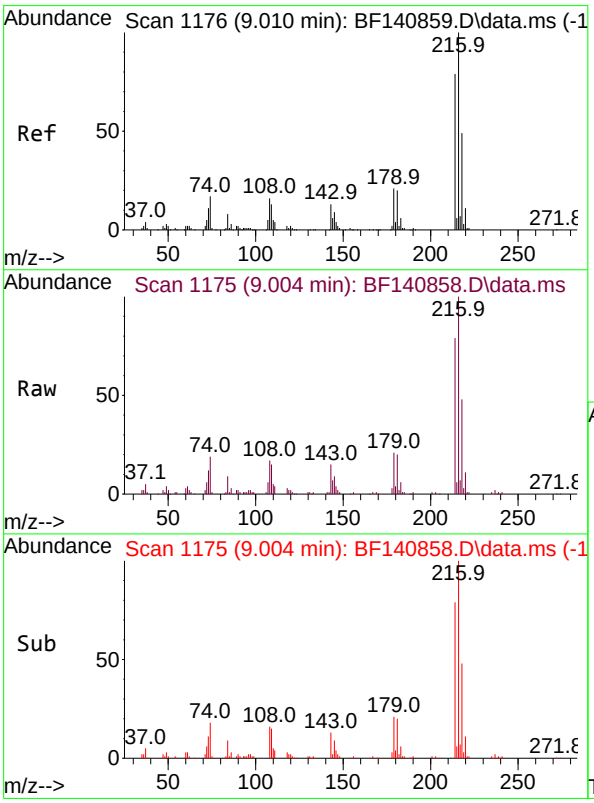
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 153586

Ion	Ratio	Lower	Upper
164	100		
162	101.8	79.9	119.9
160	45.0	35.2	52.8

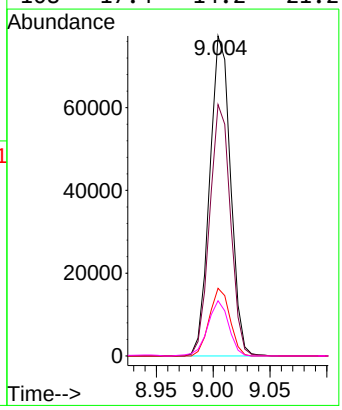


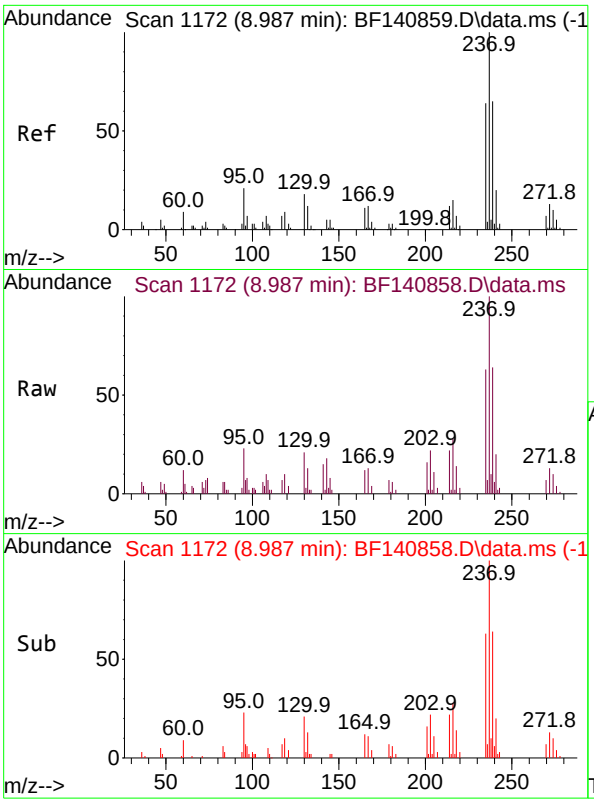


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.869 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:216 Resp: 98517

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.6	95.4
179	20.8	17.0	25.4
108	17.4	14.2	21.2



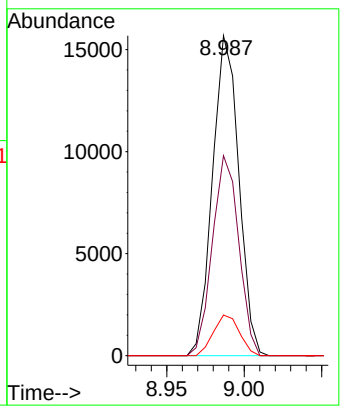


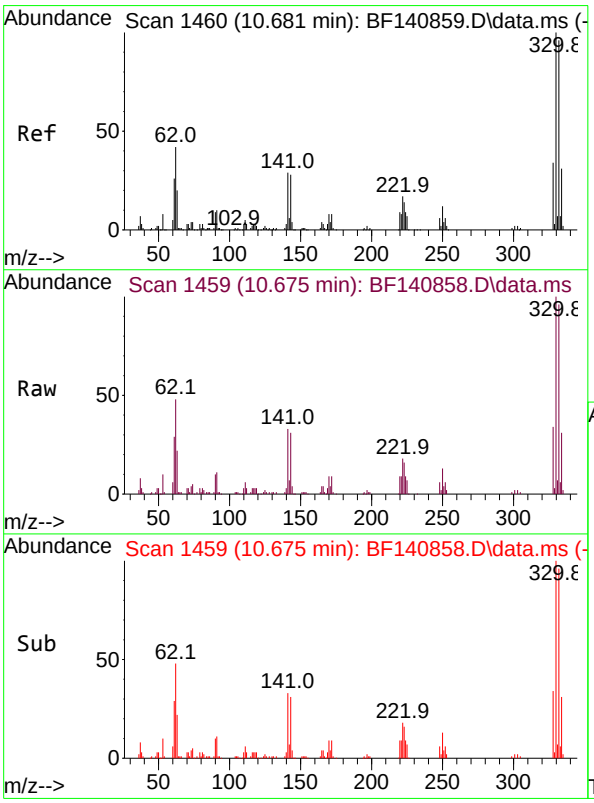
#41
Hexachlorocyclopentadiene
Concen: 21.391 ng
RT: 8.987 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 18486

Ion	Ratio	Lower	Upper
237	100		
235	62.5	43.7	83.7
272	12.7	0.0	32.9

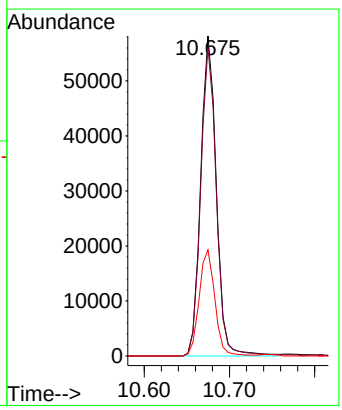


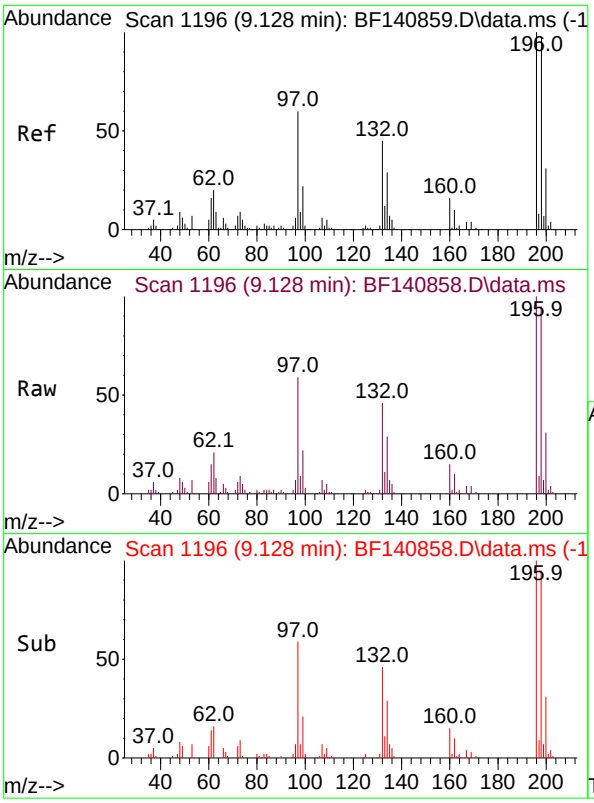


#42
2,4,6-Tribromophenol
Concen: 40.909 ng
RT: 10.675 min Scan# 1459
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:330 Resp: 74311

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.2	114.4
141	33.3	24.9	37.3



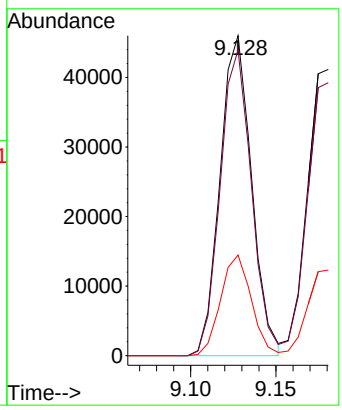


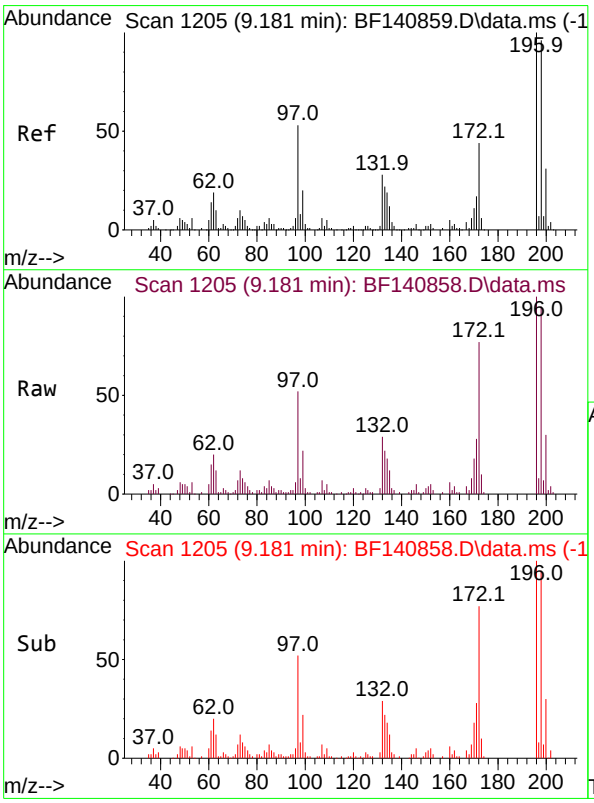
#43
2,4,6-Trichlorophenol
Concen: 20.509 ng
RT: 9.128 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 59284

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.4	116.0
200	31.5	24.5	36.7

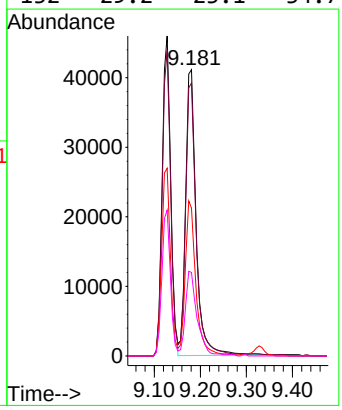


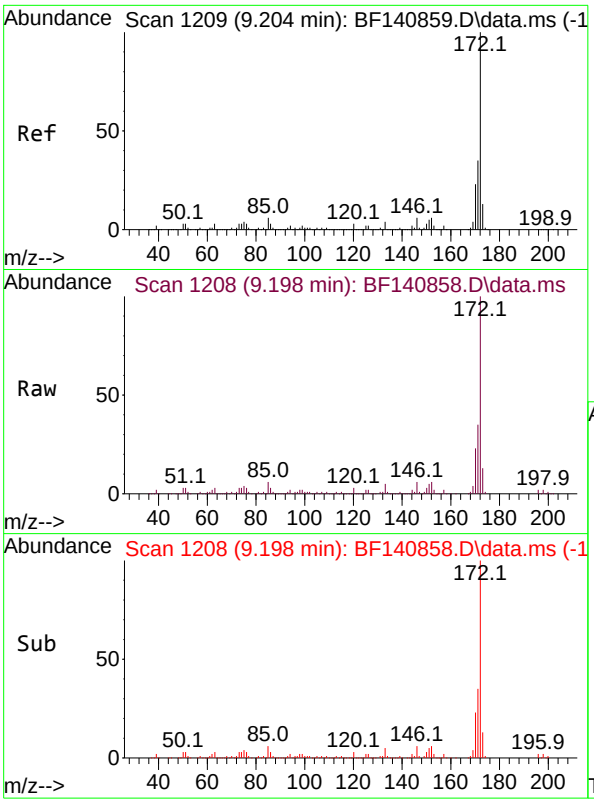


#44
2,4,5-Trichlorophenol
Concen: 20.600 ng
RT: 9.181 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:196 Resp: 65450

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.2	115.8
97	51.7	42.2	63.4
132	29.2	23.1	34.7



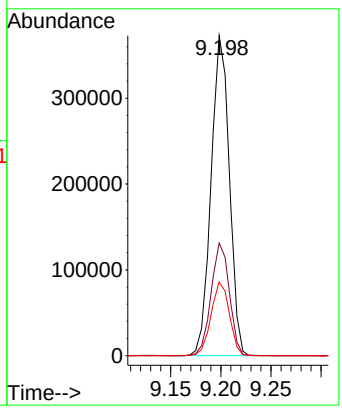


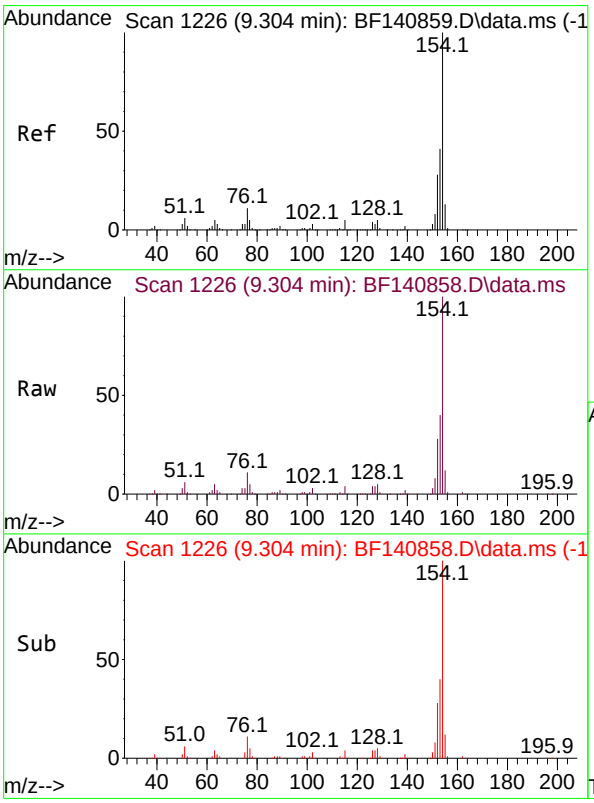
#45
2-Fluorobiphenyl
Concen: 42.281 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 472330

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.1	18.6	28.0

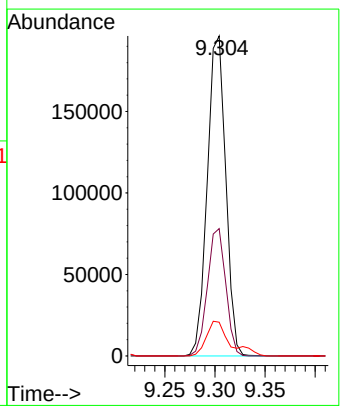


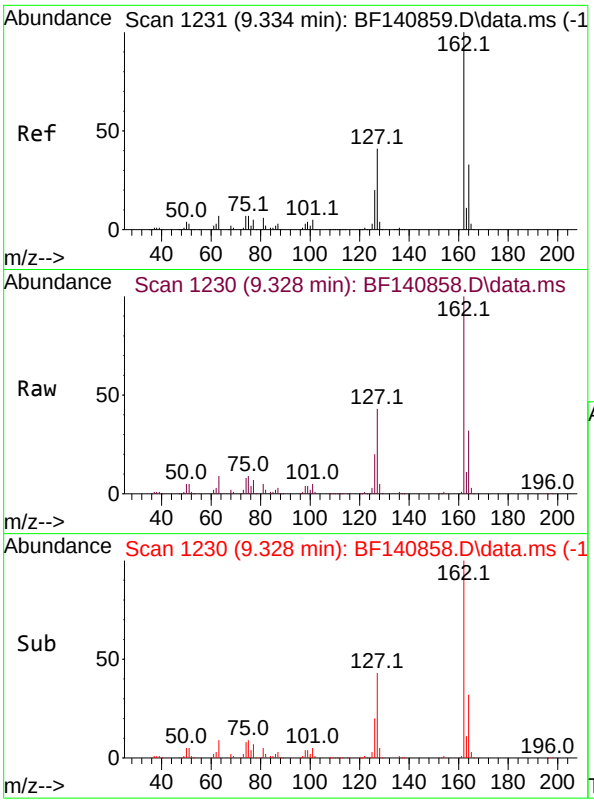


#46
1,1'-Biphenyl
Concen: 20.606 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:154 Resp: 251662

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.8	60.8
76	10.5	0.0	31.0



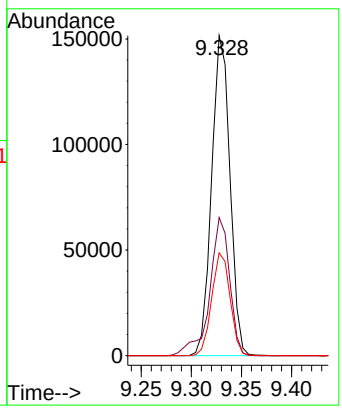


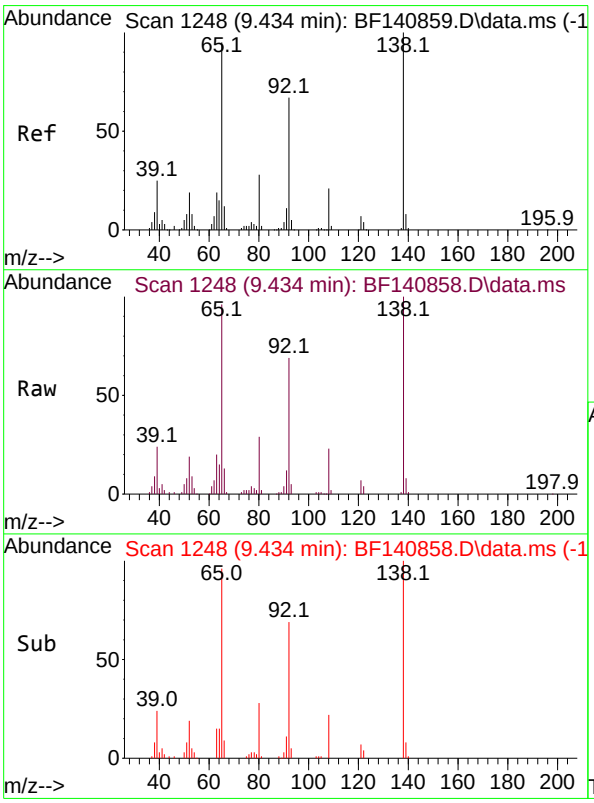
#47
2-Chloronaphthalene
Concen: 20.615 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 192611

Ion	Ratio	Lower	Upper
162	100		
127	43.2	33.5	50.3
164	32.1	26.2	39.2

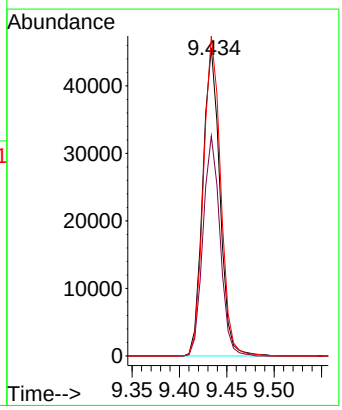


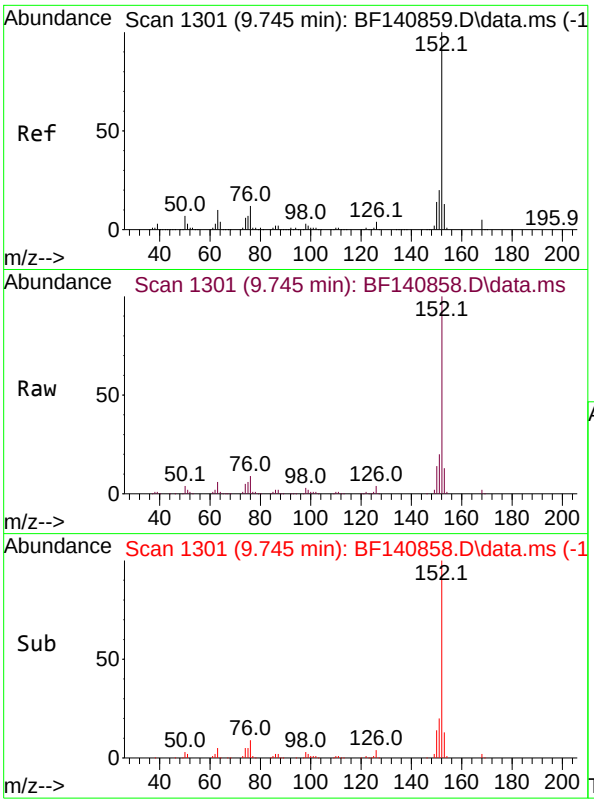


#48
2-Nitroaniline
Concen: 20.250 ng
RT: 9.434 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 65 Resp: 57140

Ion	Ratio	Lower	Upper
65	100		
92	71.4	56.3	84.5
138	103.9	83.8	125.6



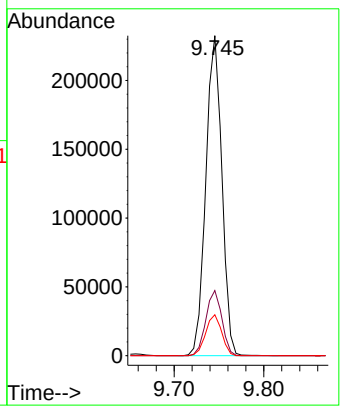


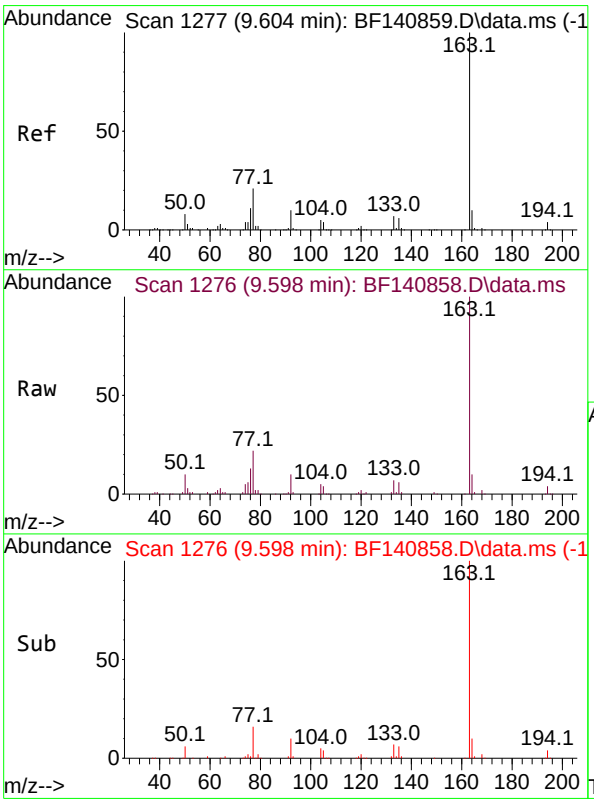
#49
Acenaphthylene
Concen: 21.027 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 288710

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	12.8	10.6	16.0

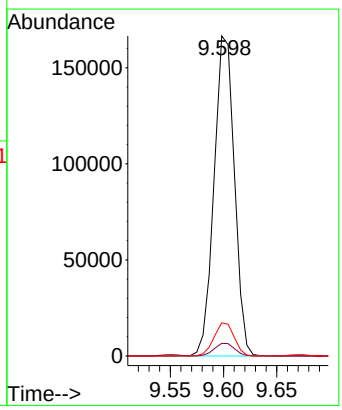


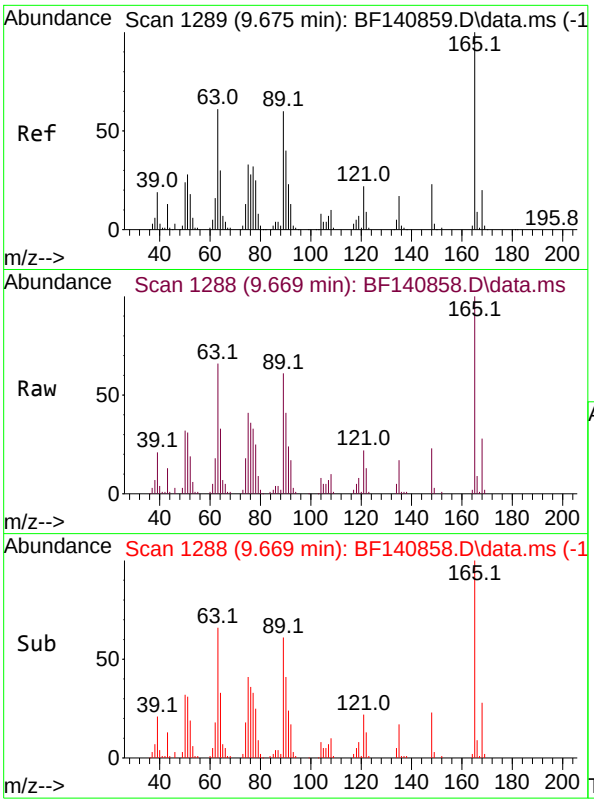


#50
Dimethylphthalate
Concen: 20.399 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:163 Resp: 220880

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.1	12.1



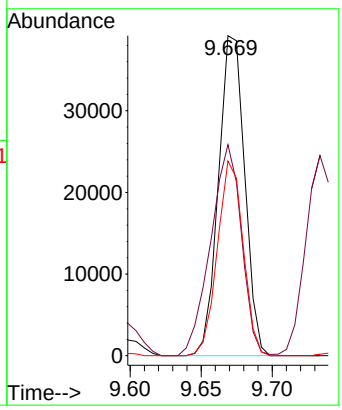


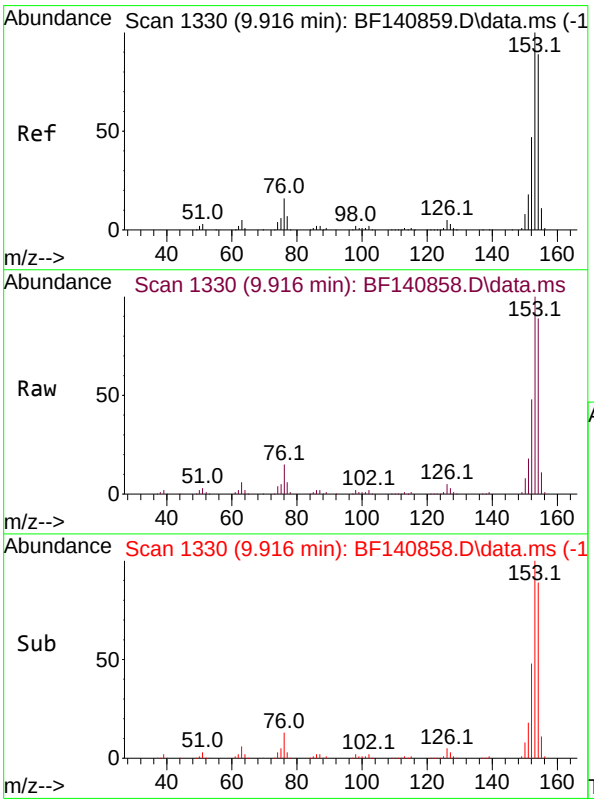
#51
2,6-Dinitrotoluene
Concen: 20.321 ng
RT: 9.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 50302

Ion	Ratio	Lower	Upper
165	100		
63	66.0	49.7	74.5
89	60.9	48.2	72.4

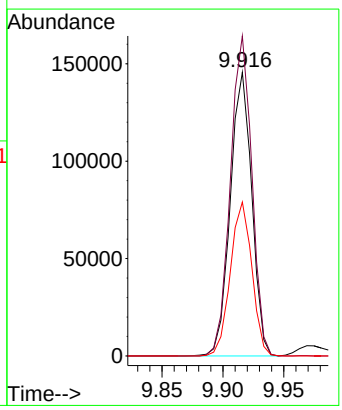


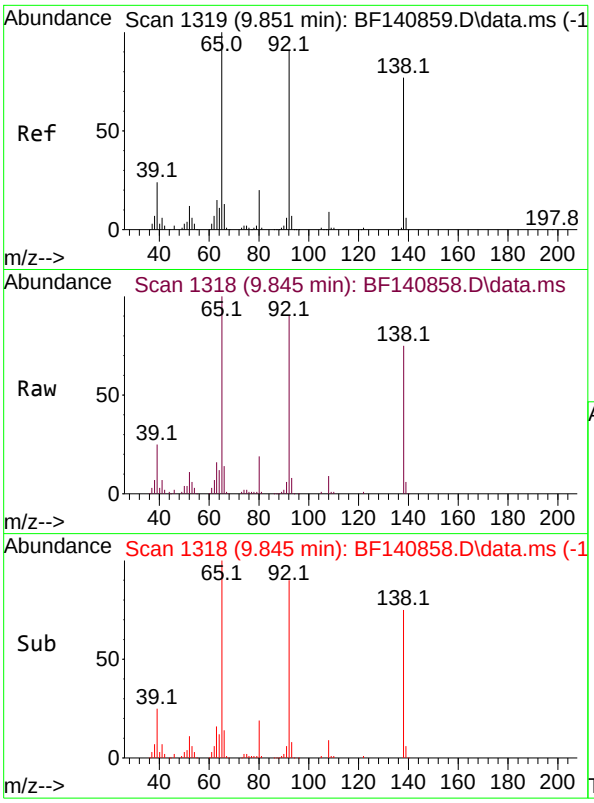


#52
Acenaphthene
Concen: 20.422 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:154 Resp: 179112

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.9	134.9
152	54.2	42.6	63.8



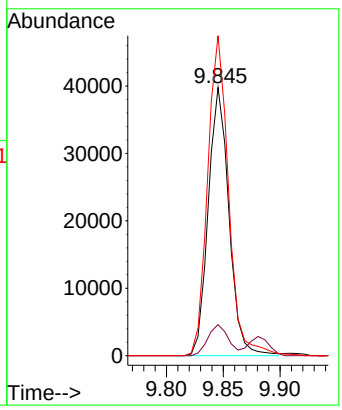


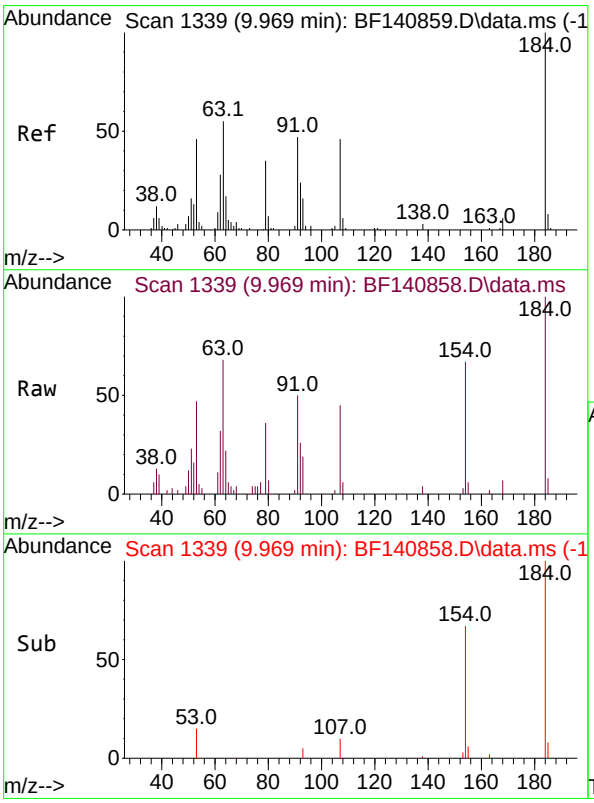
#53
3-Nitroaniline
Concen: 20.538 ng
RT: 9.845 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 50453

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.0	13.4
92	119.3	95.5	143.3

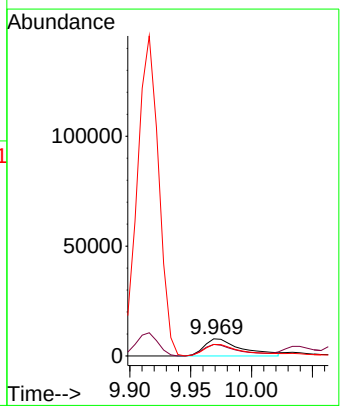


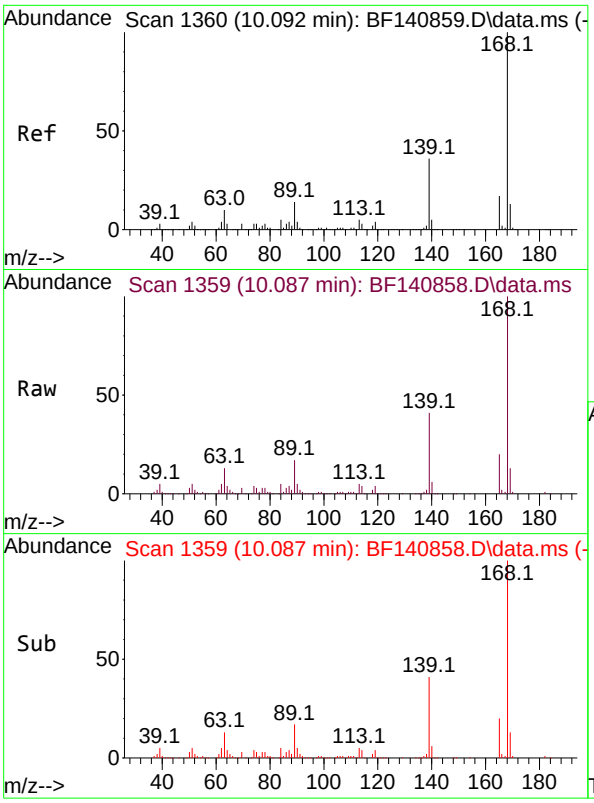


#54
2,4-Dinitrophenol
Concen: 19.139 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:184 Resp: 16571

Ion	Ratio	Lower	Upper
184	100		
63	67.6	51.6	77.4
154	67.1	56.1	84.1



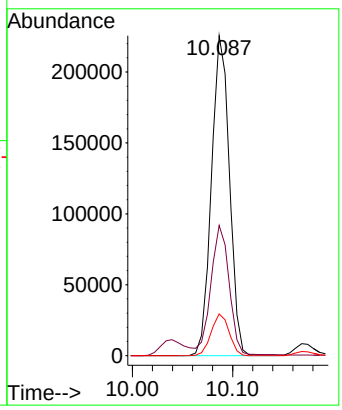


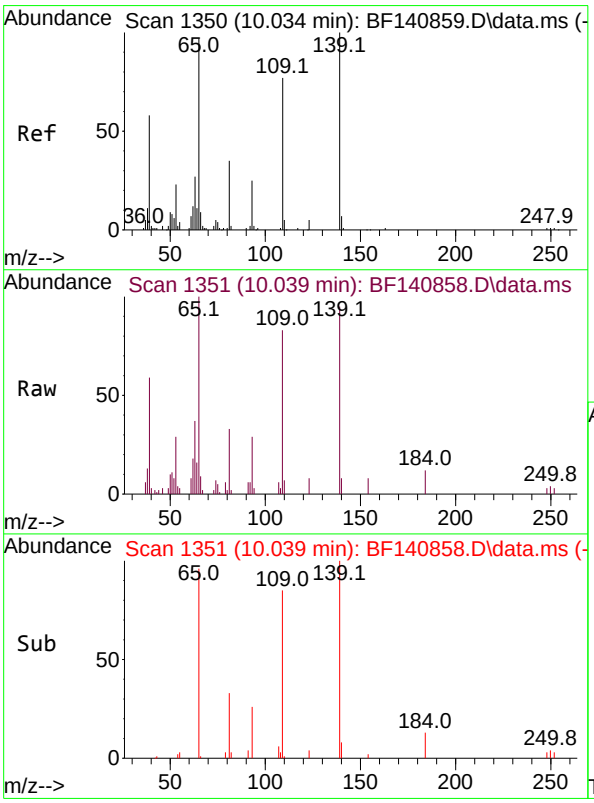
#55
Dibenzofuran
Concen: 20.683 ng
RT: 10.087 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 281092

Ion	Ratio	Lower	Upper
168	100		
139	40.7	31.1	46.7
169	13.1	10.6	16.0

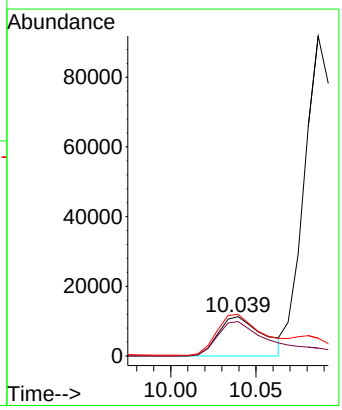


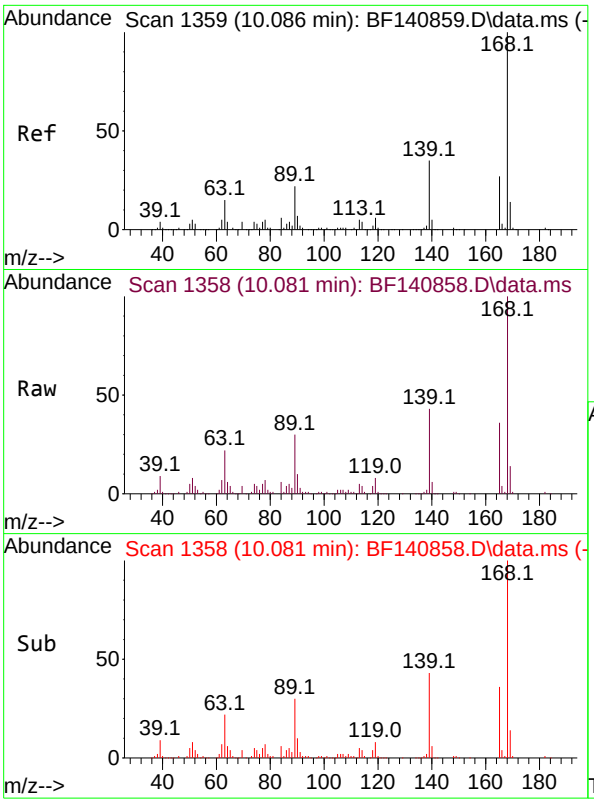


#56
4-Nitrophenol
Concen: 19.017 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.005 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:139 Resp: 20392

Ion	Ratio	Lower	Upper
139	100		
109	87.3	56.7	96.7
65	105.5	78.1	118.1



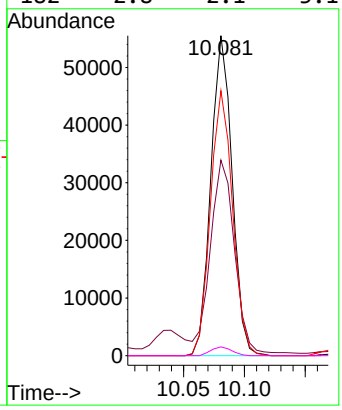


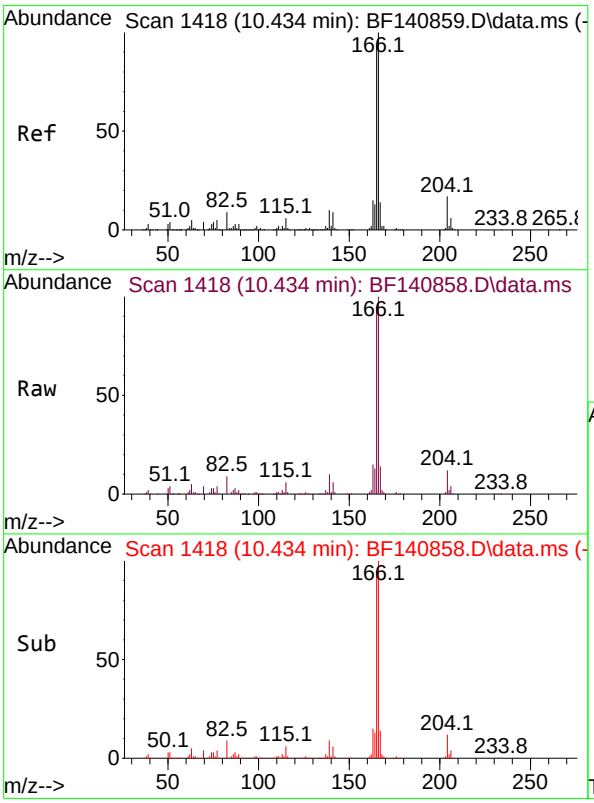
#57
2,4-Dinitrotoluene
Concen: 20.746 ng
RT: 10.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 67570

Ion	Ratio	Lower	Upper
165	100		
63	61.1	49.3	73.9
89	82.8	66.2	99.4
182	2.8	2.1	3.1

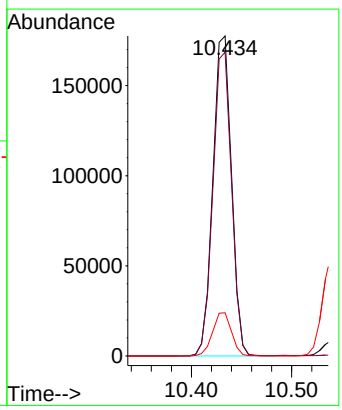


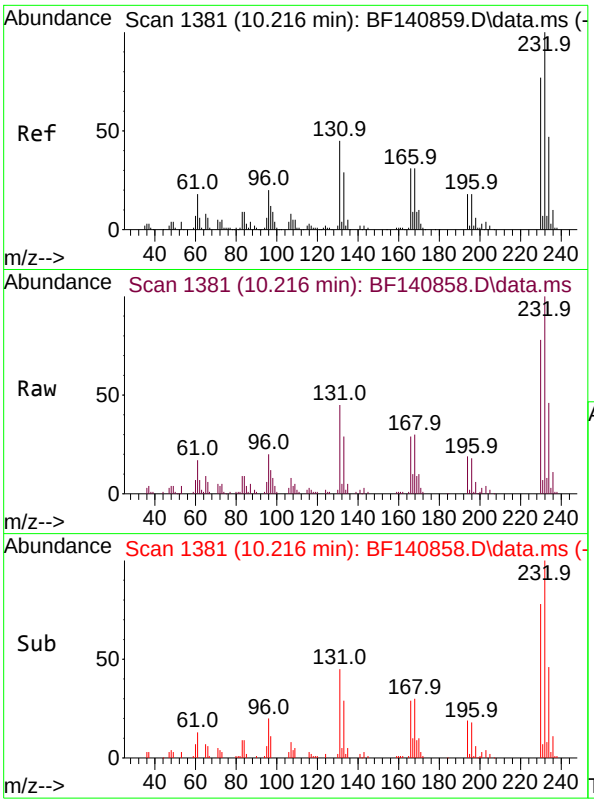


#58
Fluorene
Concen: 20.439 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:166 Resp: 229160

Ion	Ratio	Lower	Upper
166	100		
165	95.0	75.1	112.7
167	13.5	11.1	16.7



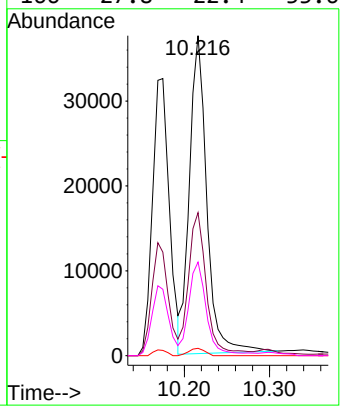


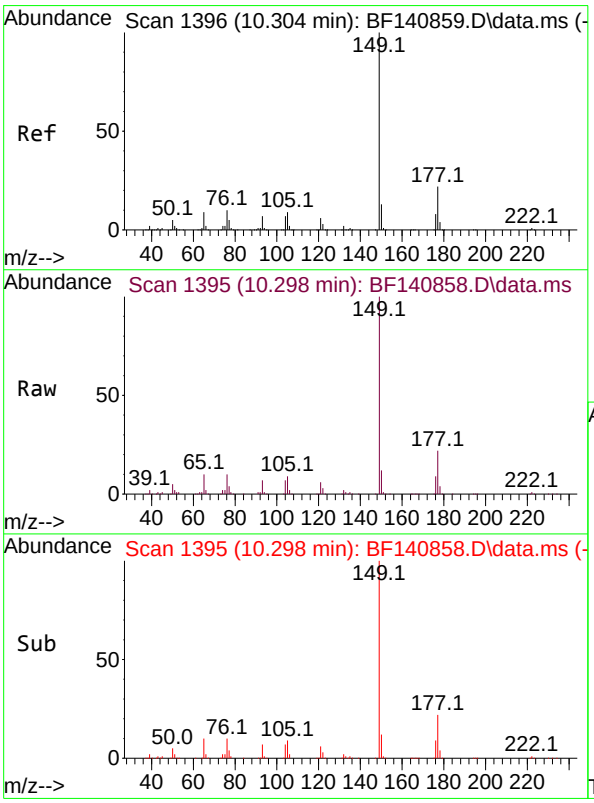
#59
2,3,4,6-Tetrachlorophenol
Concen: 20.459 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 52966

Ion	Ratio	Lower	Upper
232	100		
131	46.0	35.1	52.7
130	2.1	1.8	2.8
166	27.8	22.4	33.6

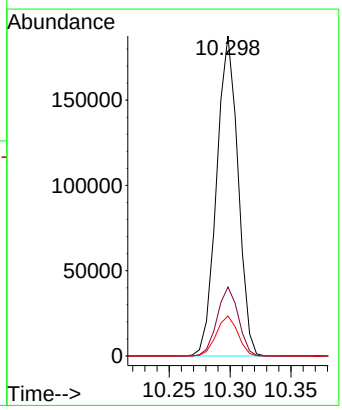


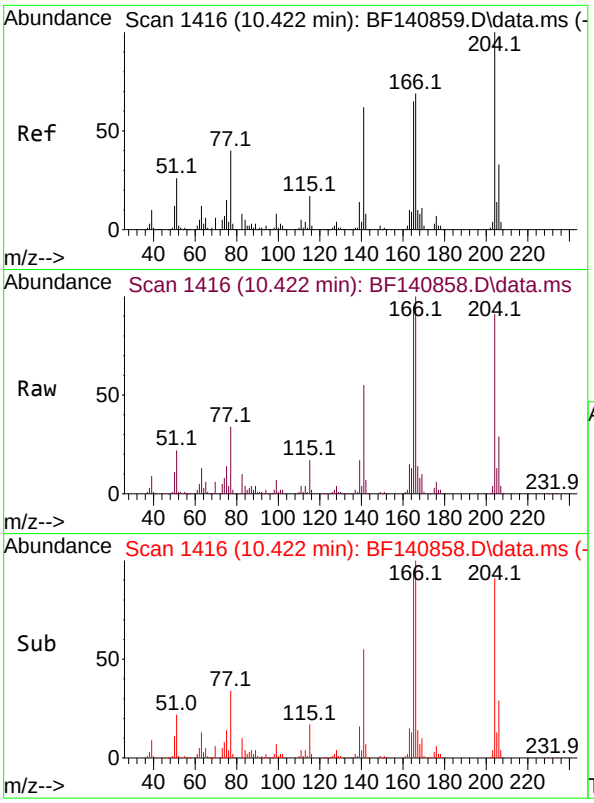


#60
Diethylphthalate
Concen: 20.466 ng
RT: 10.298 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 229798

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.2	25.8
150	12.5	10.1	15.1



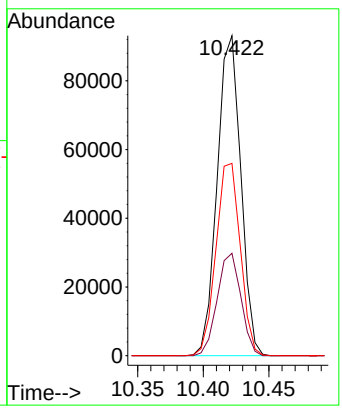


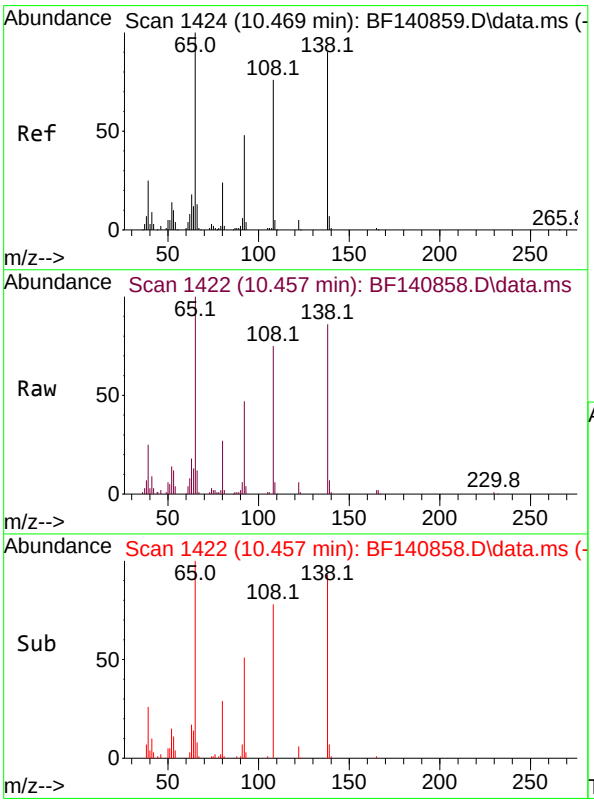
#61
4-Chlorophenyl-phenylether
Concen: 20.693 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 116545

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.5	39.7
141	60.1	50.0	75.0

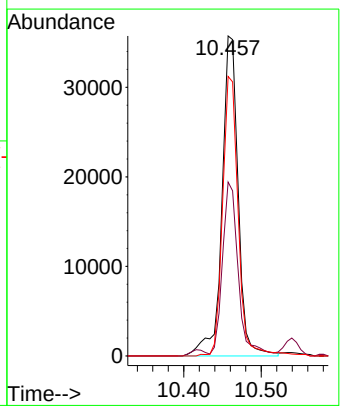


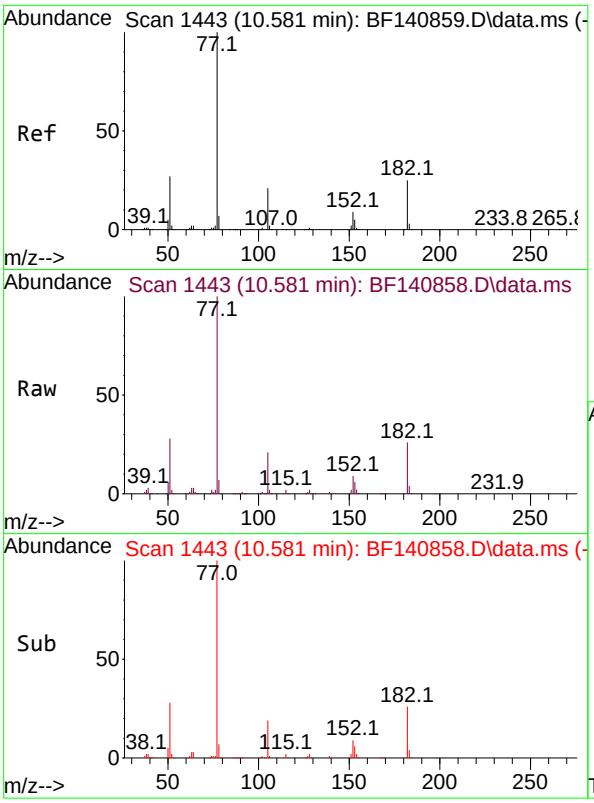


#62
4-Nitroaniline
Concen: 20.263 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:138 Resp: 52016

Ion	Ratio	Lower	Upper
138	100		
92	54.4	32.6	72.6
108	87.4	64.1	104.1



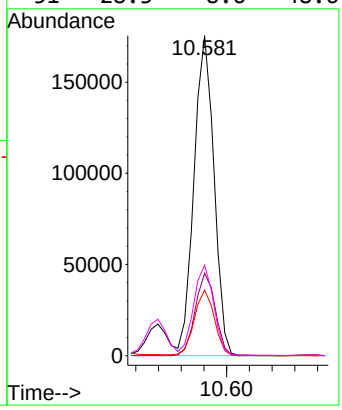


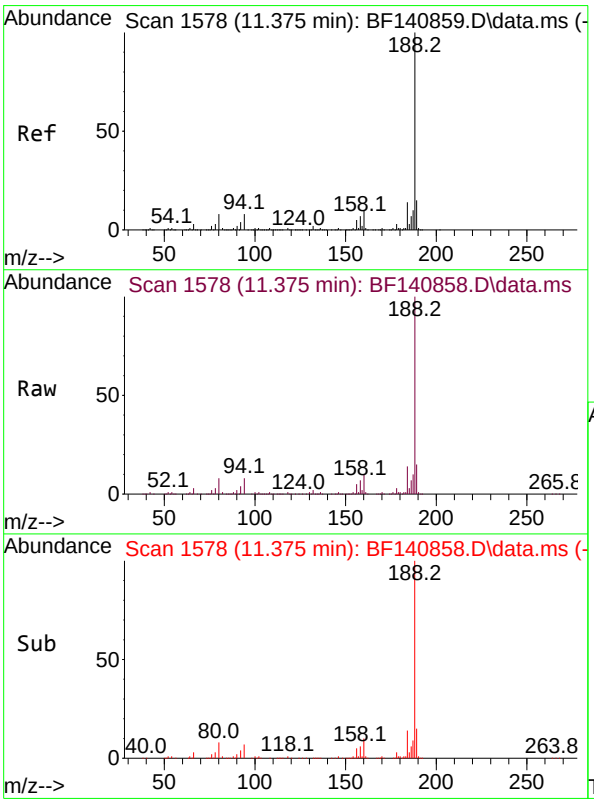
#63
Azobenzene
Concen: 20.286 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 214137

Ion	Ratio	Lower	Upper
77	100		
182	25.8	4.5	44.5
105	20.5	0.9	40.9
51	28.3	8.6	48.6

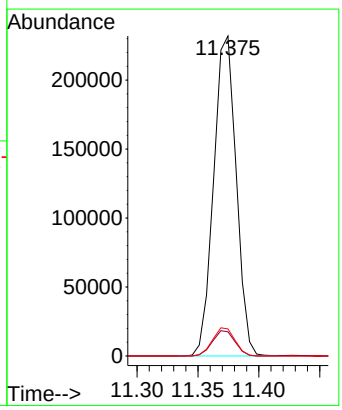


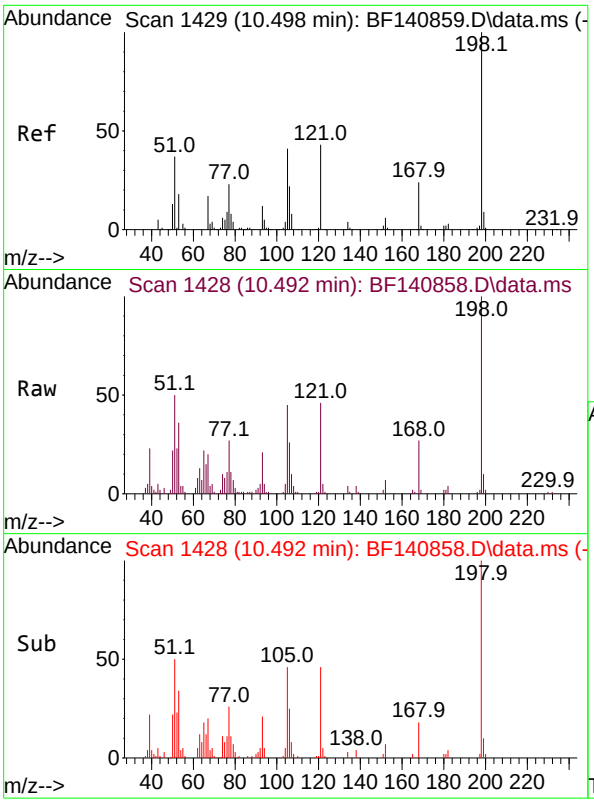


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:188 Resp: 299699

Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.4	9.6
80	8.4	6.8	10.2



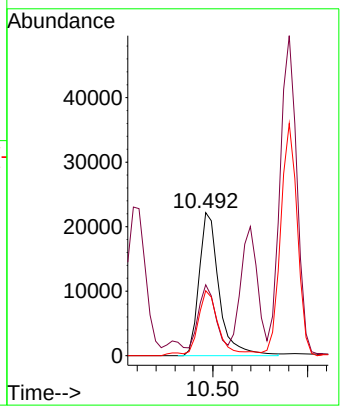


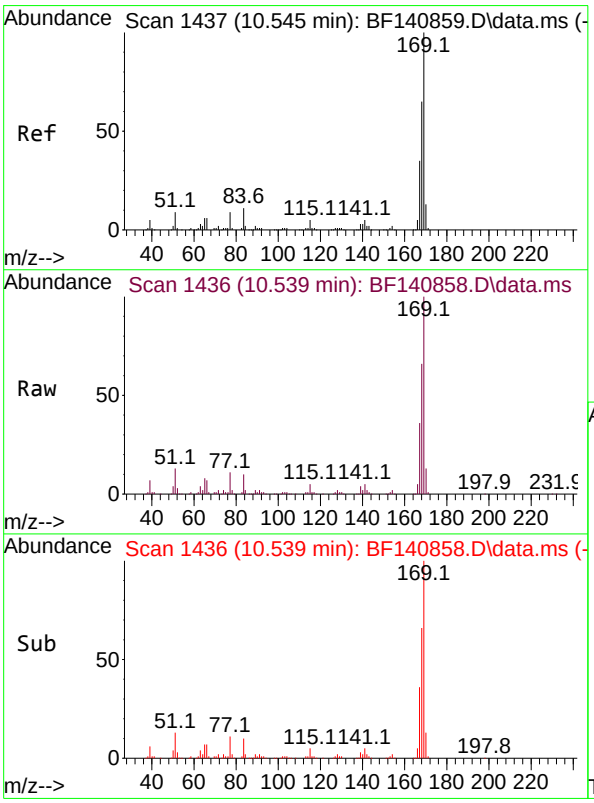
#65
4,6-Dinitro-2-methylphenol
Concen: 19.149 ng
RT: 10.492 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 32520

Ion	Ratio	Lower	Upper
198	100		
51	49.6	24.4	64.4
105	45.4	22.1	62.1

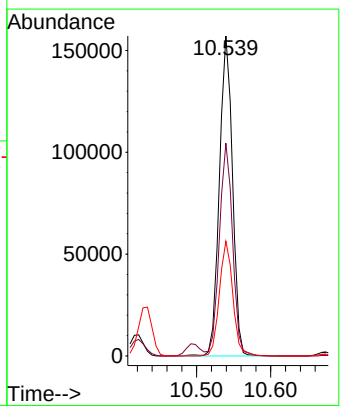


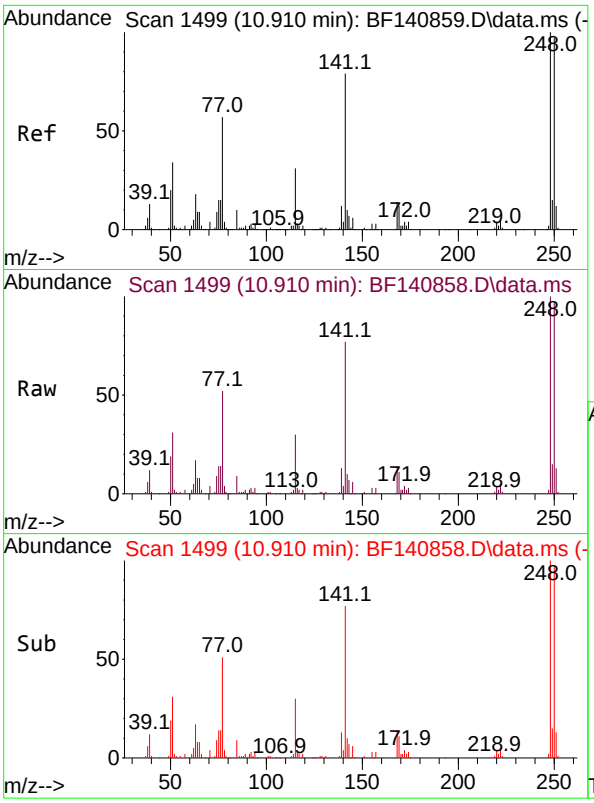


#66
n-Nitrosodiphenylamine
Concen: 20.932 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:169 Resp: 192873

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.4	80.0
167	35.9	28.3	42.5



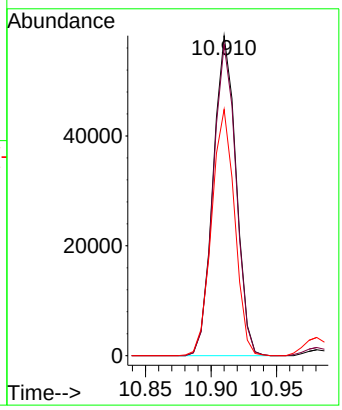


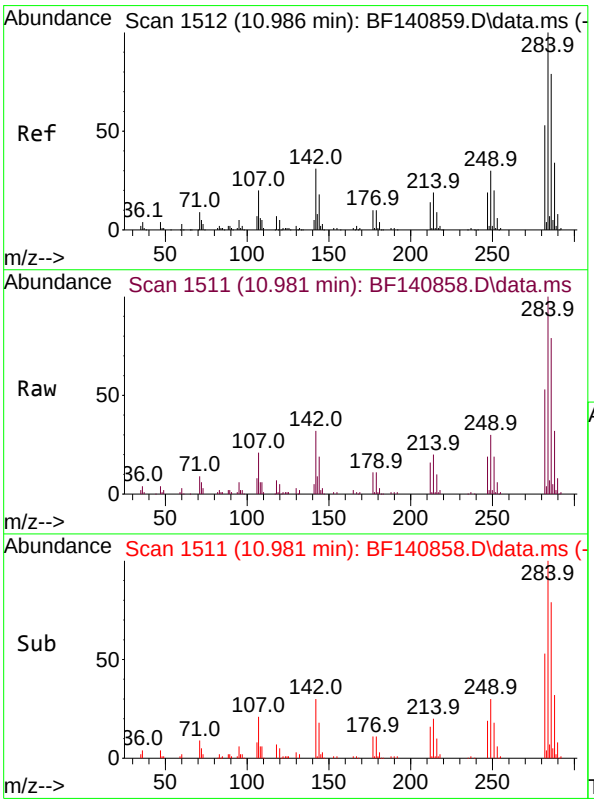
#67
4-Bromophenyl-phenylether
Concen: 21.118 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 70804

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.4	116.2
141	77.0	62.9	94.3

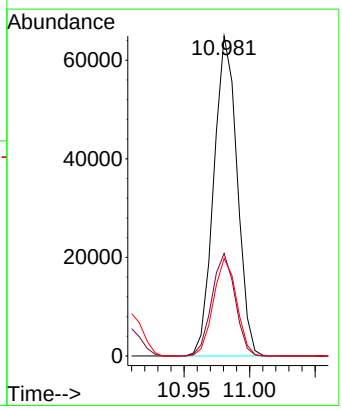


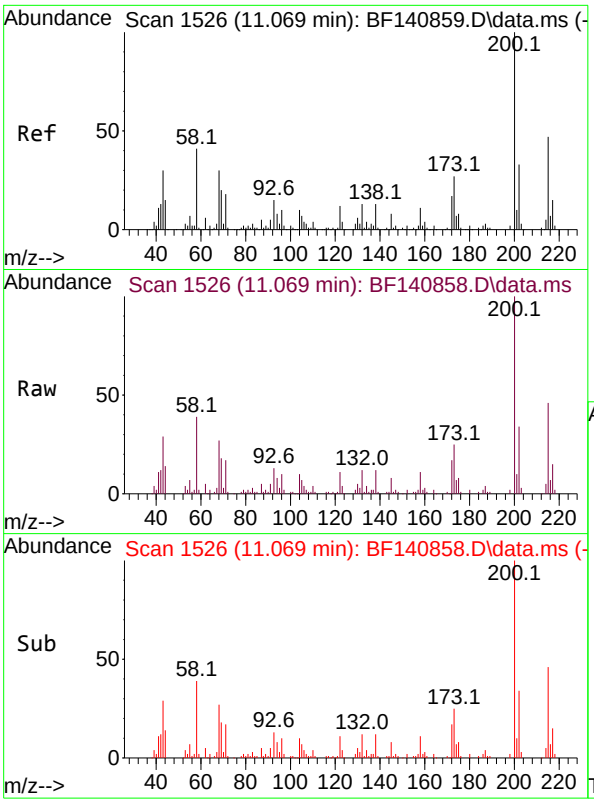


#68
Hexachlorobenzene
Concen: 21.095 ng
RT: 10.981 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:284 Resp: 80189

Ion	Ratio	Lower	Upper
284	100		
142	32.0	24.6	36.8
249	30.5	24.3	36.5



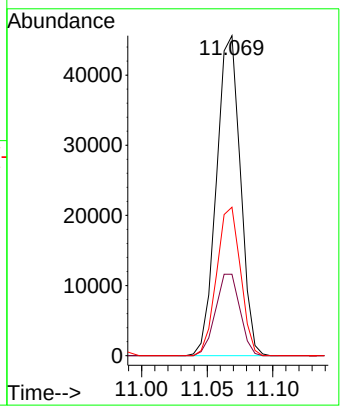


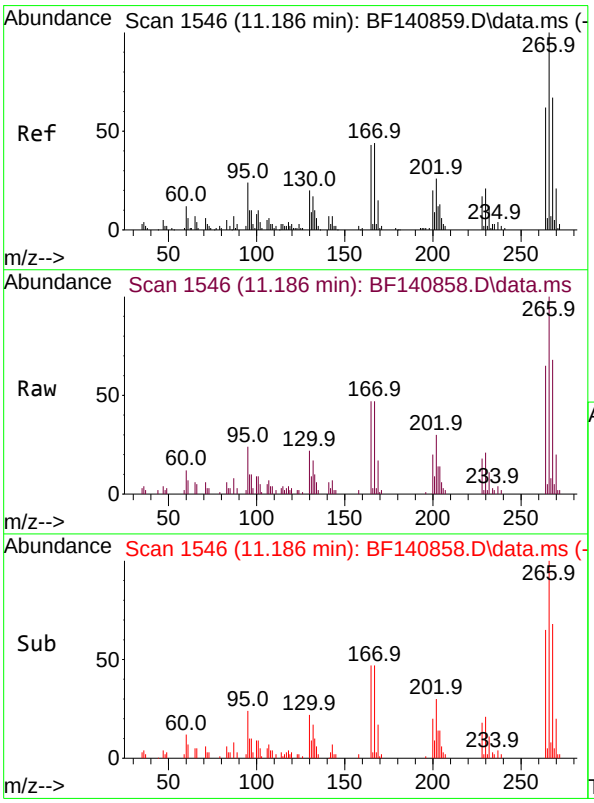
#69
Atrazine
Concen: 22.488 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 57872

Ion	Ratio	Lower	Upper
200	100		
173	25.5	6.6	46.6
215	46.4	26.7	66.7

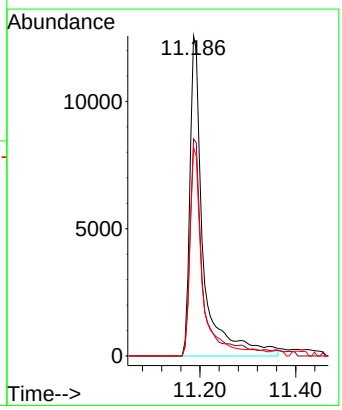


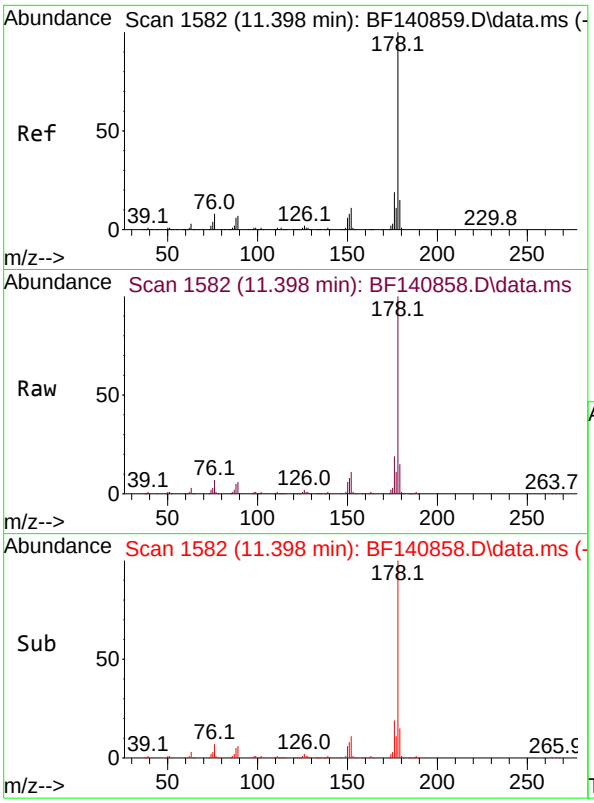


#70
Pentachlorophenol
Concen: 17.726 ng m
RT: 11.186 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:266 Resp: 24650

Ion	Ratio	Lower	Upper
266	100		
268	67.9	54.0	81.0
264	65.2	49.4	74.2



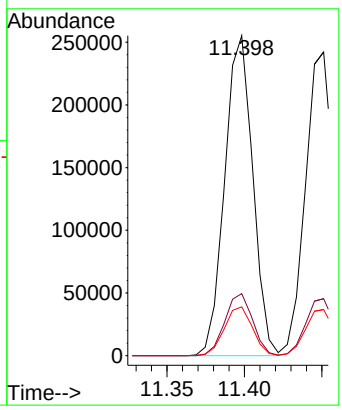


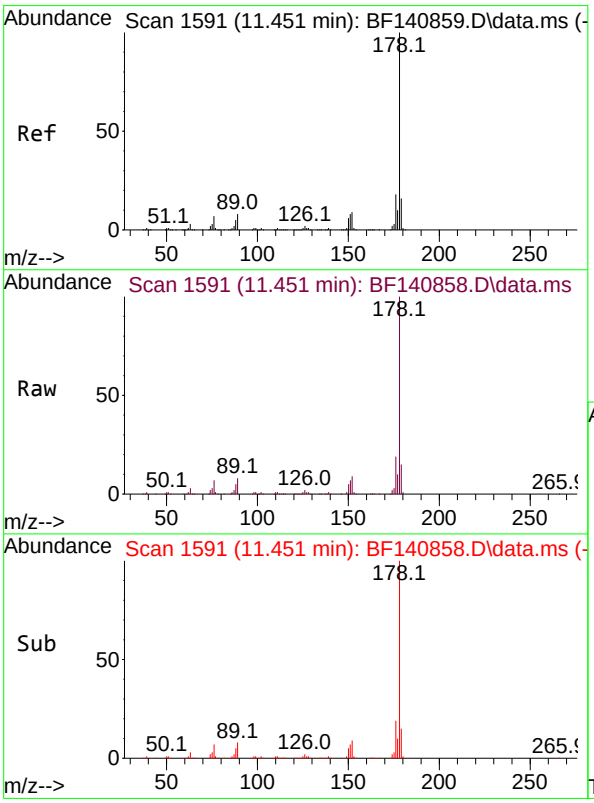
#71
Phenanthrene
Concen: 20.854 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 321392

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.3	12.1	18.1

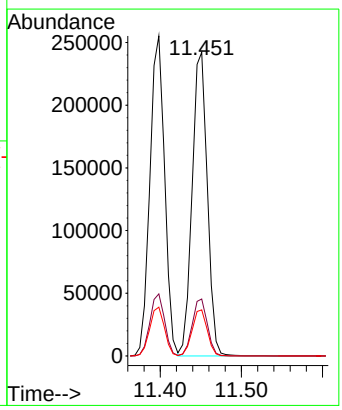


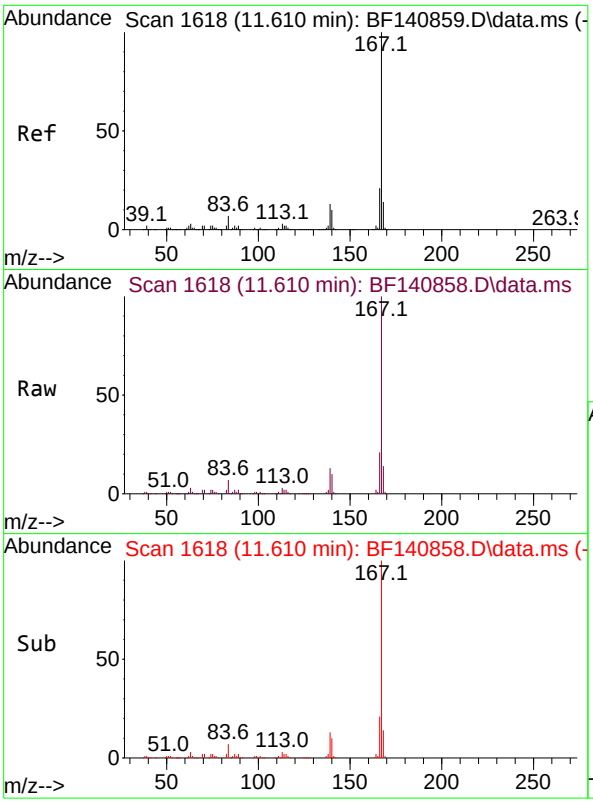


#72
Anthracene
Concen: 20.798 ng
RT: 11.451 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:178 Resp: 315664

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.2	12.6	18.8



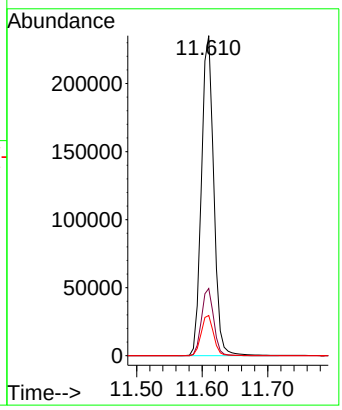


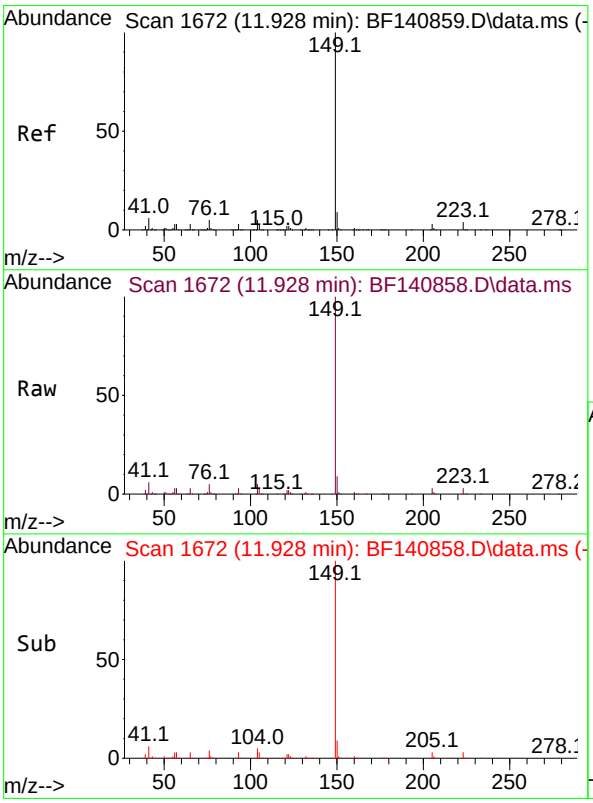
#73
Carbazole
Concen: 20.692 ng
RT: 11.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 307615

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.6
139	12.6	10.2	15.2

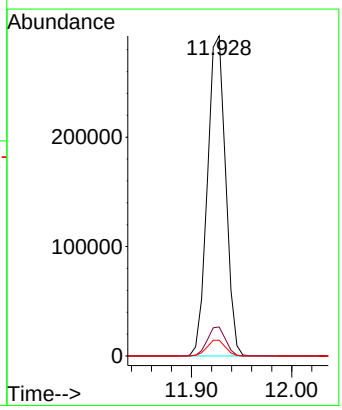


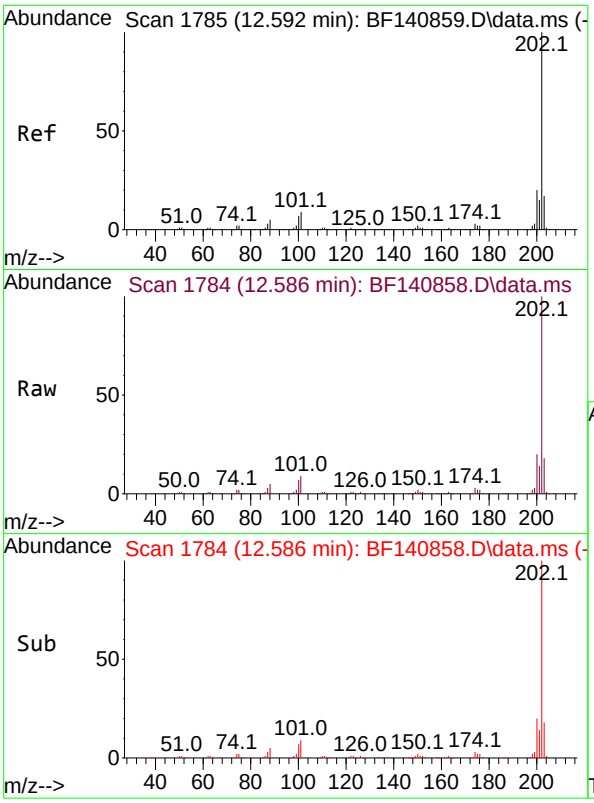


#74
Di-n-butylphthalate
Concen: 21.164 ng
RT: 11.928 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 369257

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.5	11.3
104	4.9	3.8	5.8



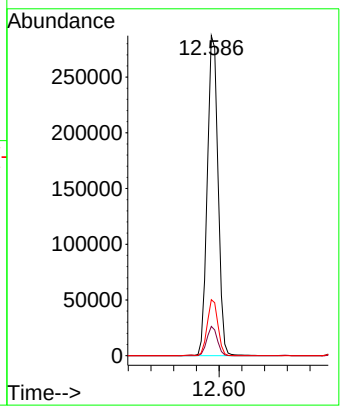


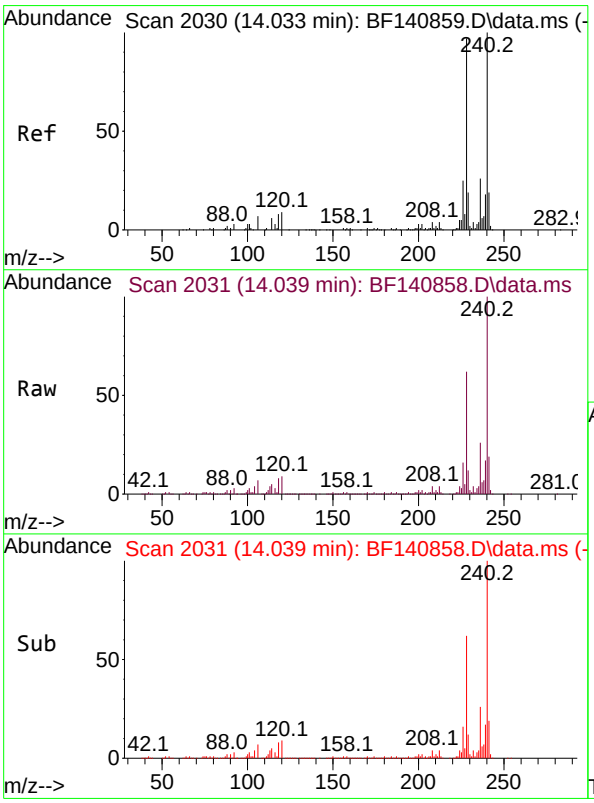
#75
Fluoranthene
Concen: 21.122 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 374894

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.3
203	17.5	0.0	37.4

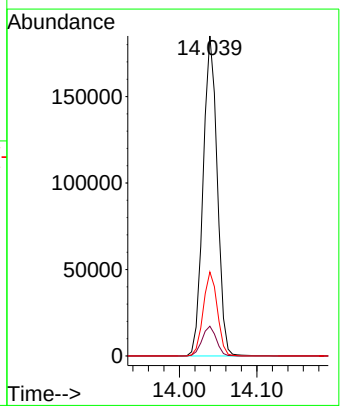


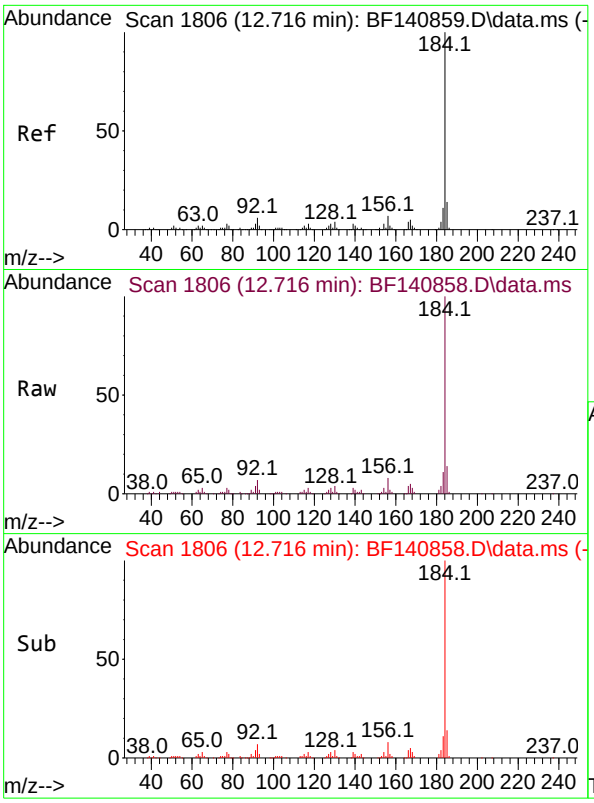


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:240 Resp: 234229

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.6	11.4
236	26.3	20.5	30.7



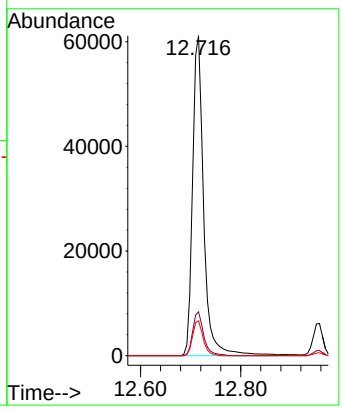


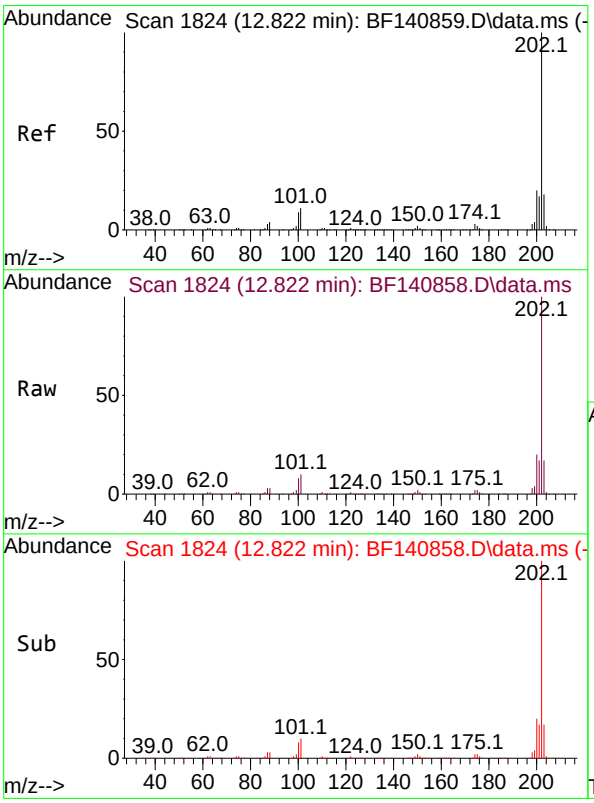
#77
Benzidine
Concen: 19.660 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 93986

Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.1	16.7
183	10.9	9.0	13.4

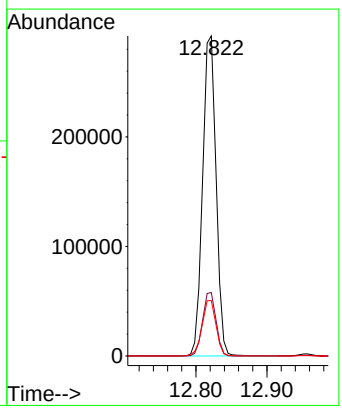


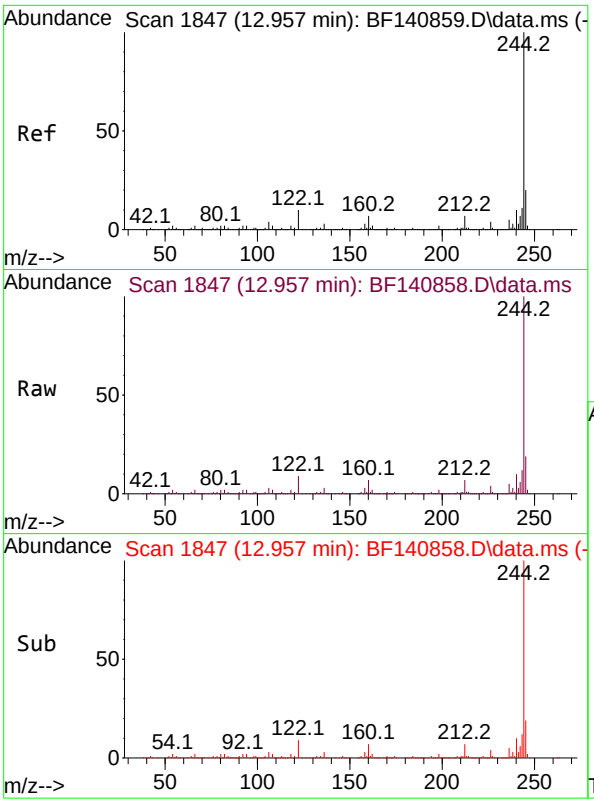


#78
Pyrene
Concen: 18.558 ng
RT: 12.822 min Scan# 1824
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:202 Resp: 386539

Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.1	24.1
203	17.3	14.2	21.4



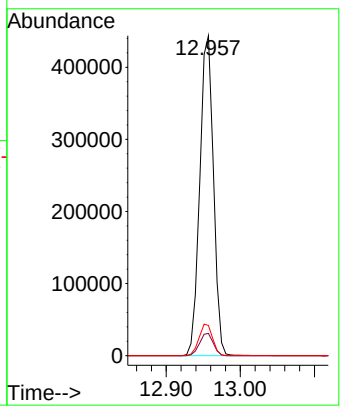


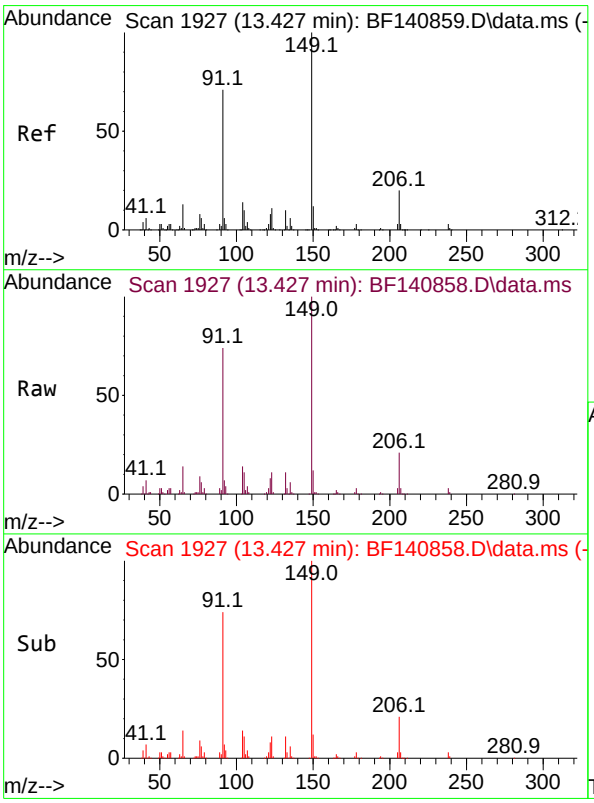
#79
Terphenyl-d14
Concen: 38.416 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 570640

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.5	8.2	12.2

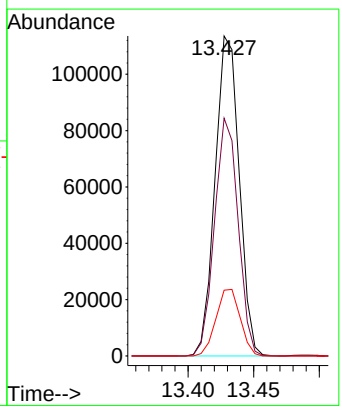


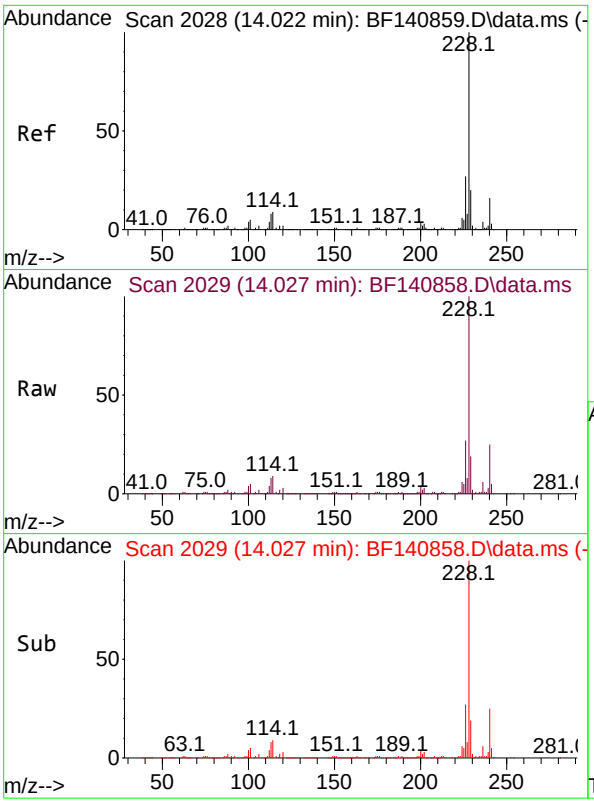


#80
Butylbenzylphthalate
Concen: 18.972 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 145401

Ion	Ratio	Lower	Upper
149	100		
91	74.3	56.7	85.1
206	20.6	16.4	24.6



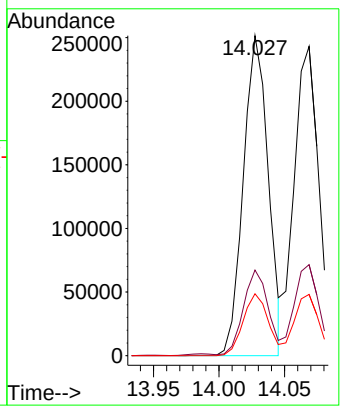


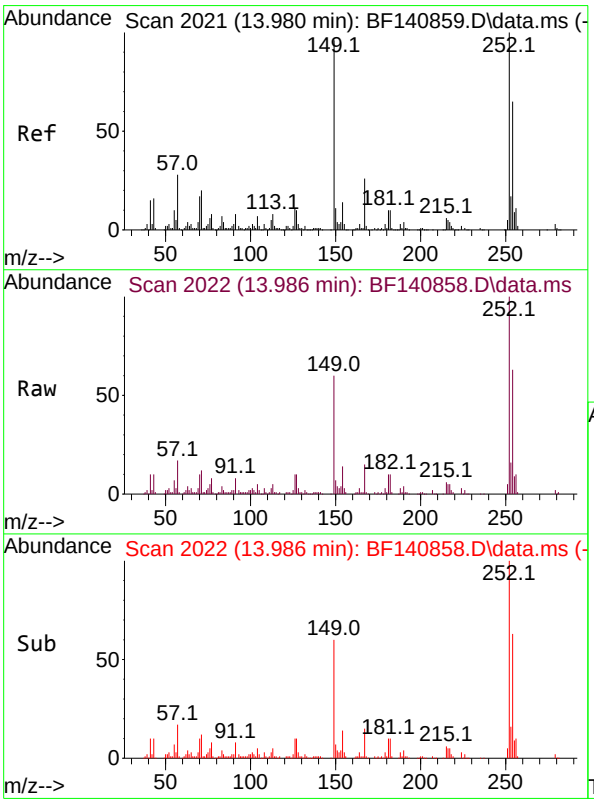
#81
Benzo(a)anthracene
Concen: 20.050 ng
RT: 14.027 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 332845

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.3	15.8	23.8

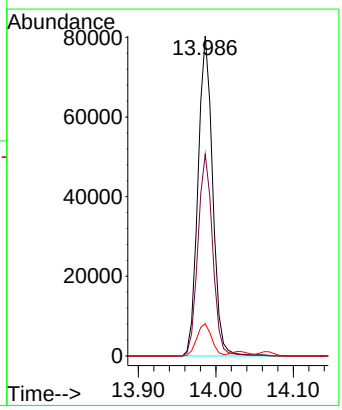


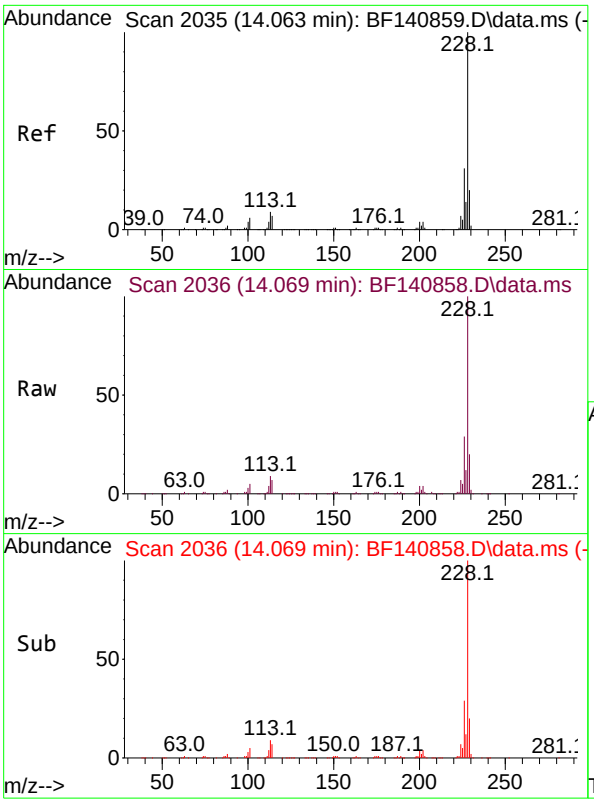


#82
3,3'-Dichlorobenzidine
Concen: 20.989 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:252 Resp: 105124

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.3	78.5
126	10.1	8.4	12.6



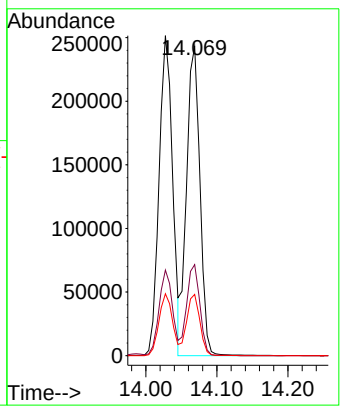


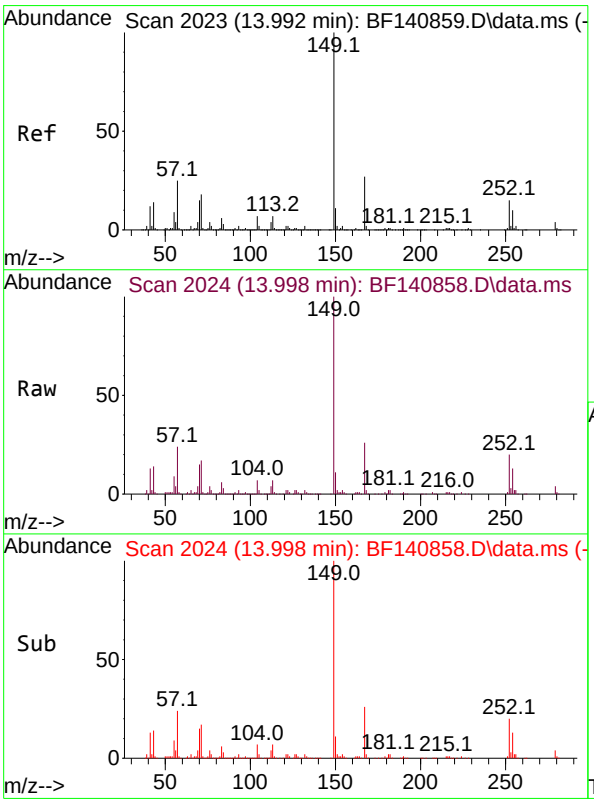
#83
Chrysene
Concen: 21.160 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 319417

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.1	36.1
229	19.8	16.0	24.0

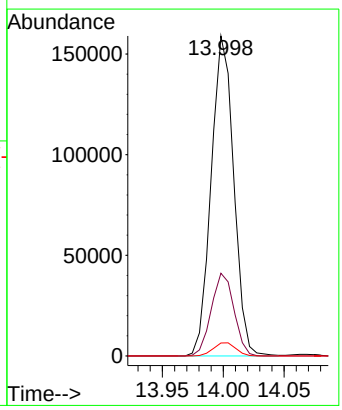


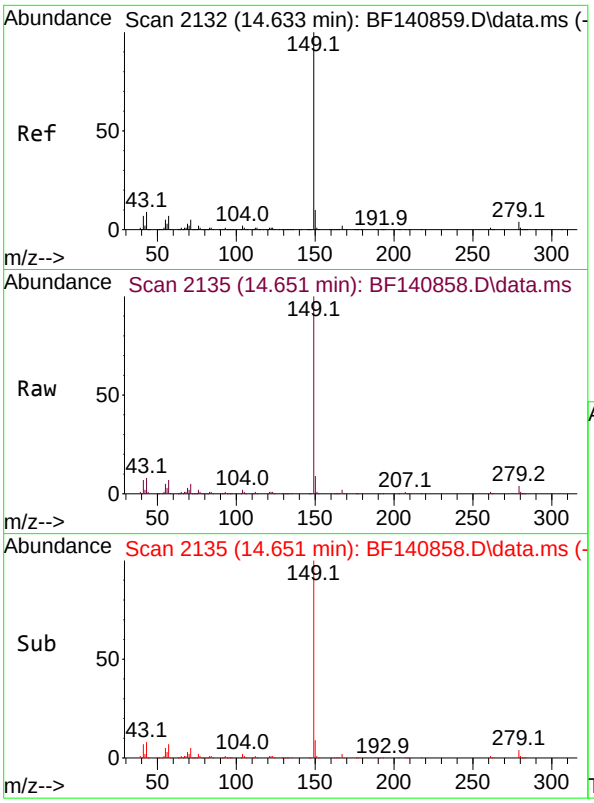


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.740 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 204953

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.8	32.8
279	4.0	3.5	5.3



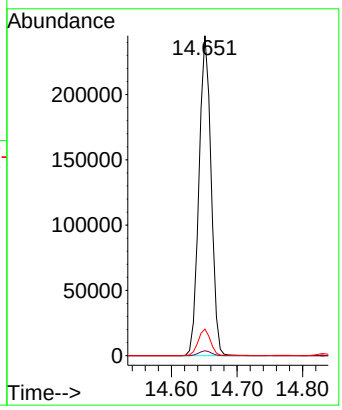


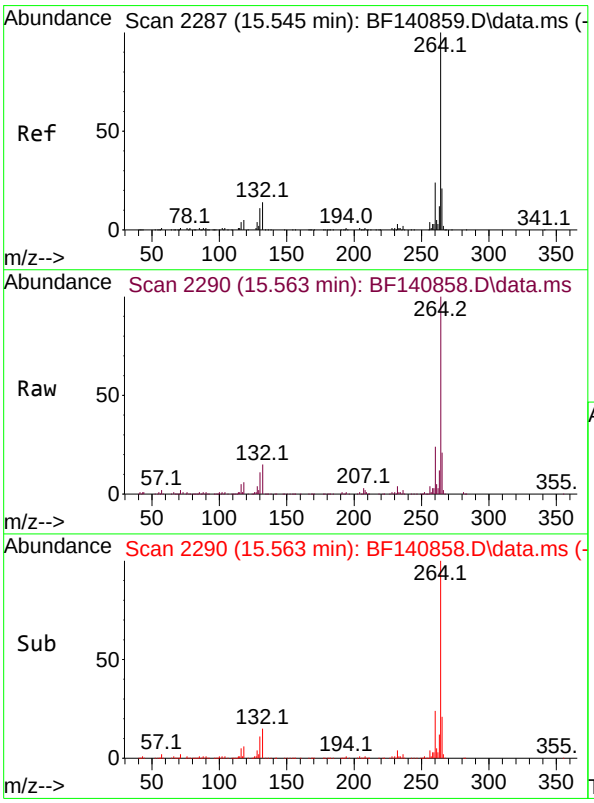
#85
Di-n-octyl phthalate
Concen: 21.125 ng
RT: 14.651 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 315841

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	7.0	10.6

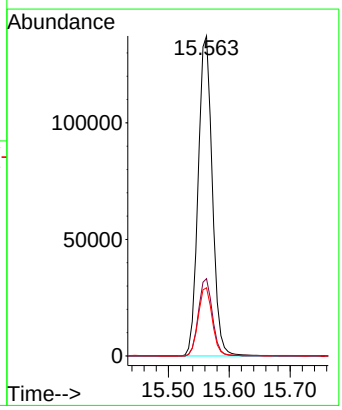


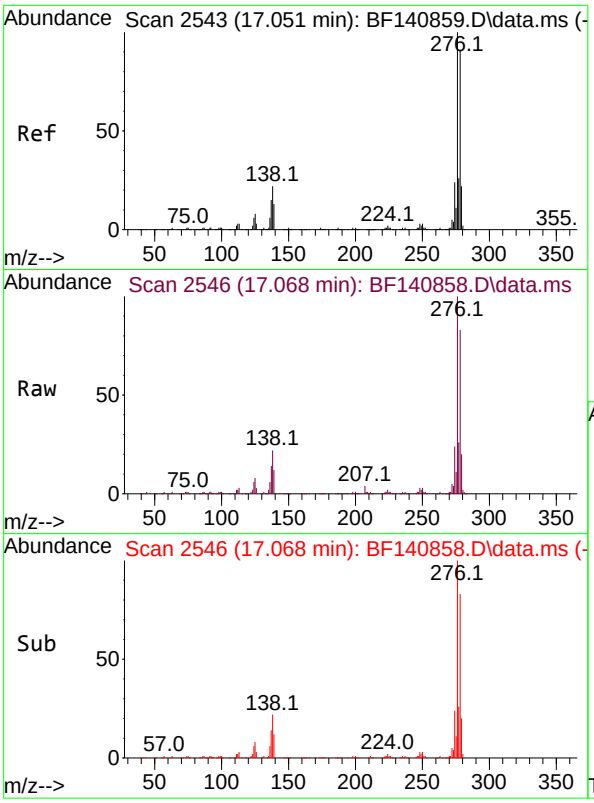


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2290
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:264 Resp: 220576

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.1	28.7
265	21.3	17.0	25.4



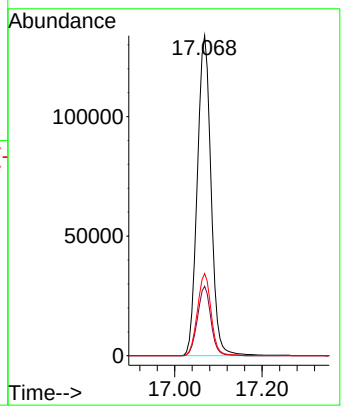


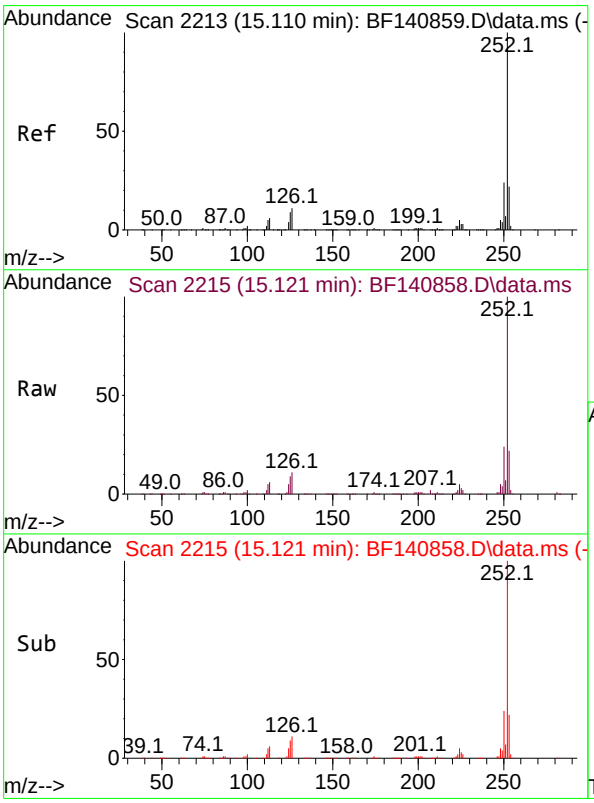
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.315 ng
RT: 17.068 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 293402

Ion	Ratio	Lower	Upper
276	100		
138	21.1	16.9	25.3
277	25.5	20.2	30.4

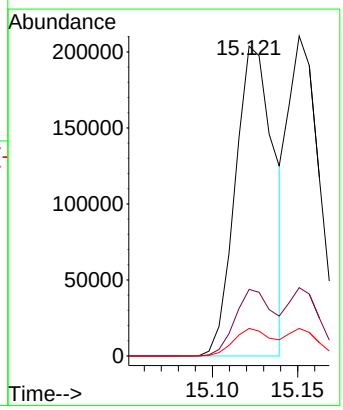


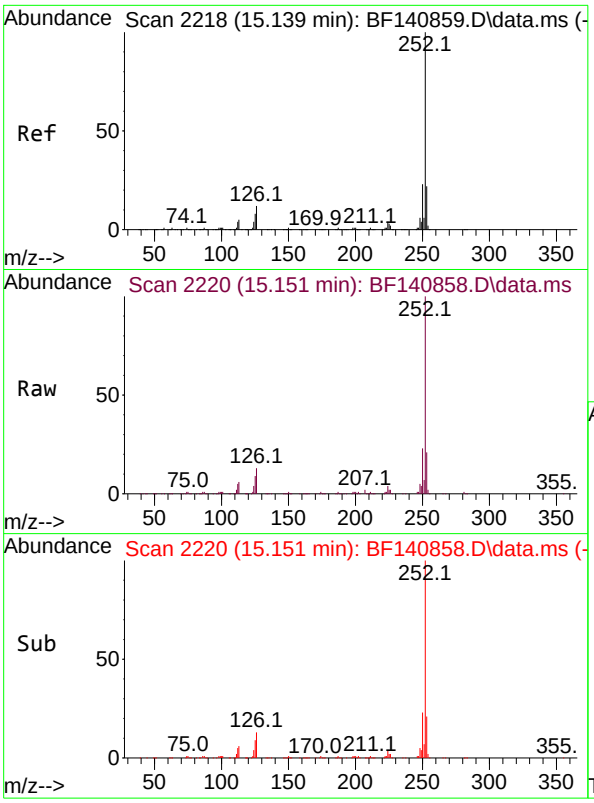


#88
Benzo(b)fluoranthene
Concen: 20.890 ng
RT: 15.121 min Scan# 2215
Delta R.T. 0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:252 Resp: 319848

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	8.9	7.0	10.4



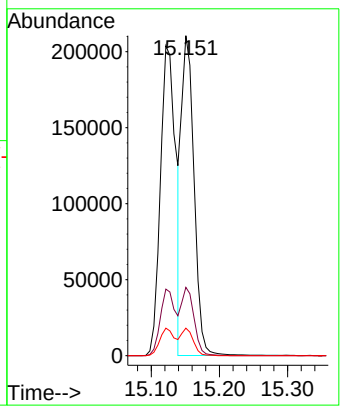


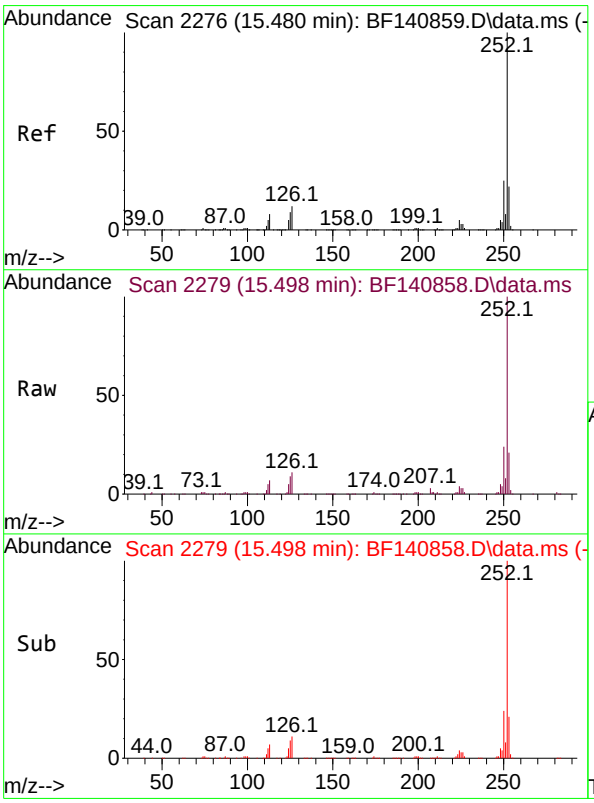
#89
Benzo(k)fluoranthene
Concen: 20.548 ng
RT: 15.151 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 269871

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.5	26.3
125	8.6	6.8	10.2

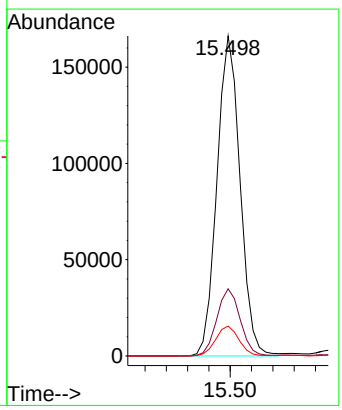


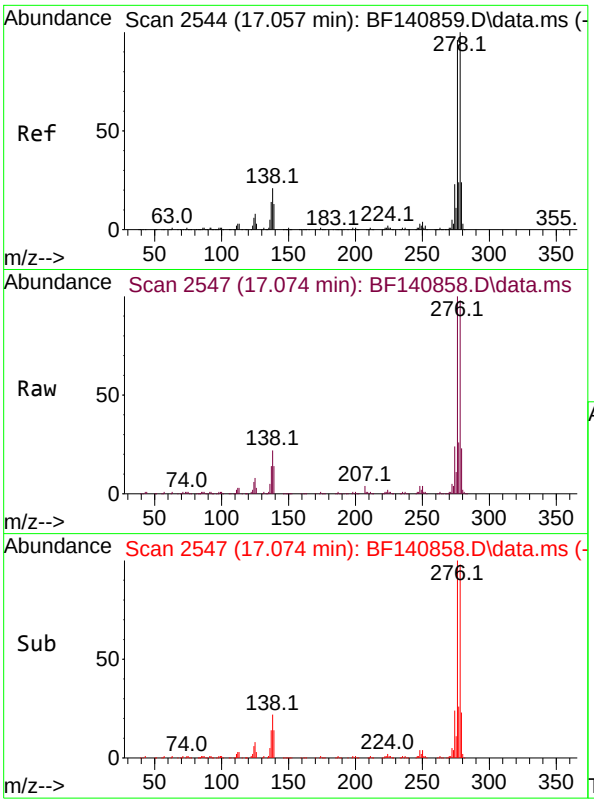


#90
Benzo(a)pyrene
Concen: 20.861 ng
RT: 15.498 min Scan# 2279
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:252 Resp: 250110

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.5	26.3
125	9.4	7.5	11.3



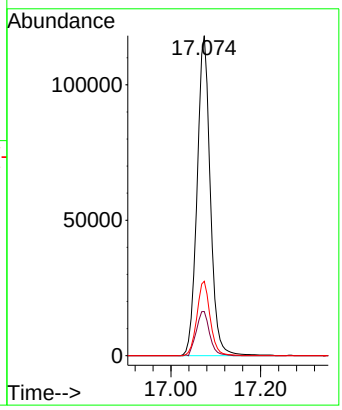


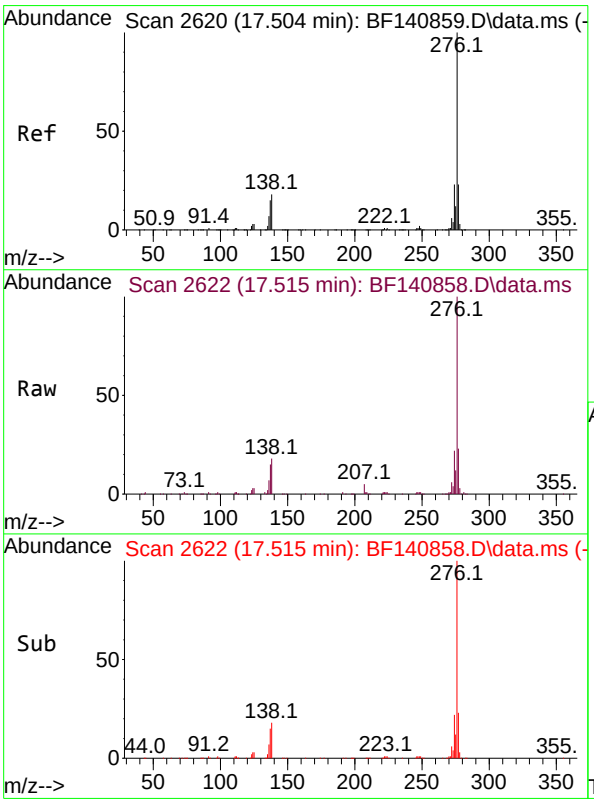
#91
Dibenzo(a,h)anthracene
Concen: 21.117 ng
RT: 17.074 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 240810

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	23.3	19.2	28.8

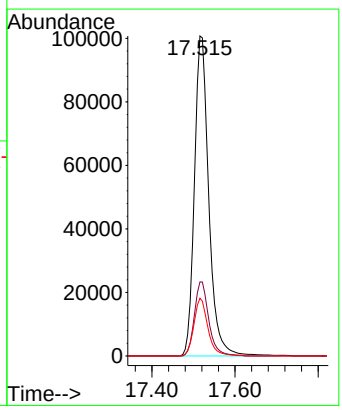




#92
Benzo(g,h,i)perylene
Concen: 20.785 ng
RT: 17.515 min Scan# 2622
Delta R.T. 0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:276 Resp: 241228

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	18.0	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140859.D
Acq On : 16 Dec 2024 14:26
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Dec 16 16:49:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	77674	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	293537	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	179301	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	361848	20.000	ng	0.00
76) Chrysene-d12	14.033	240	241027	20.000	ng	0.00
86) Perylene-d12	15.545	264	202727	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	372670	78.982	ng	0.00
7) Phenol-d6	6.498	99	486855	77.902	ng	0.00
23) Nitrobenzene-d5	7.416	82	461011	78.576	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	172188	81.197	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	981889	75.290	ng	0.00
79) Terphenyl-d14	12.957	244	1163098	76.093	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.622	88	78111	38.433	ng	100
3) Pyridine	3.405	79	189803	40.326	ng	100
4) n-Nitrosodimethylamine	3.357	42	93747	39.510	ng	100
6) Aniline	6.516	93	213440	39.944	ng	100
8) 2-Chlorophenol	6.646	128	202098	39.277	ng	100
9) Benzaldehyde	6.410	77	134222	38.761	ng	100
10) Phenol	6.510	94	253259	39.100	ng	100
11) bis(2-Chloroethyl)ether	6.587	93	190608	39.459	ng	100
12) 1,3-Dichlorobenzene	6.787	146	228181	38.918	ng	100
13) 1,4-Dichlorobenzene	6.869	146	232493	39.065	ng	100
14) 1,2-Dichlorobenzene	7.022	146	223134	39.737	ng	100
15) Benzyl Alcohol	6.998	79	178597	39.968	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.122	45	223455	39.269	ng	100
17) 2-Methylphenol	7.116	107	161380	39.284	ng	100
18) Hexachloroethane	7.357	117	86395	38.994	ng	100
19) n-Nitroso-di-n-propyla...	7.263	70	143279	38.220	ng	100
20) 3+4-Methylphenols	7.269	107	210531	38.648	ng	100
22) Acetophenone	7.263	105	289650	39.446	ng	100
24) Nitrobenzene	7.434	77	235847	39.238	ng	100
25) Isophorone	7.675	82	381938	38.852	ng	100
26) 2-Nitrophenol	7.751	139	109806	39.666	ng	100
27) 2,4-Dimethylphenol	7.793	122	128970	39.892	ng	100
28) bis(2-Chloroethoxy)met...	7.875	93	244652	39.846	ng	100
29) 2,4-Dichlorophenol	7.998	162	175409	39.299	ng	100
30) 1,2,4-Trichlorobenzene	8.069	180	200471	39.180	ng	100
31) Naphthalene	8.151	128	626585	38.860	ng	100
32) Benzoic acid	7.940	122	124210	40.510	ng	100
33) 4-Chloroaniline	8.204	127	211976	39.582	ng	100
34) Hexachlorobutadiene	8.263	225	136482	39.646	ng	100
35) Caprolactam	8.587	113	53059	39.930	ng	100
36) 4-Chloro-3-methylphenol	8.698	107	198298	39.473	ng	100
37) 2-Methylnaphthalene	8.839	142	423369	39.693	ng	100
38) 1-Methylnaphthalene	8.939	142	414363	39.281	ng	100
40) 1,2,4,5-Tetrachloroben...	9.010	216	208141	37.768	ng	100
41) Hexachlorocyclopentadiene	8.987	237	50793	39.476	ng	100
43) 2,4,6-Trichlorophenol	9.128	196	130363	38.631	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140859.D
Acq On : 16 Dec 2024 14:26
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Dec 16 16:49:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

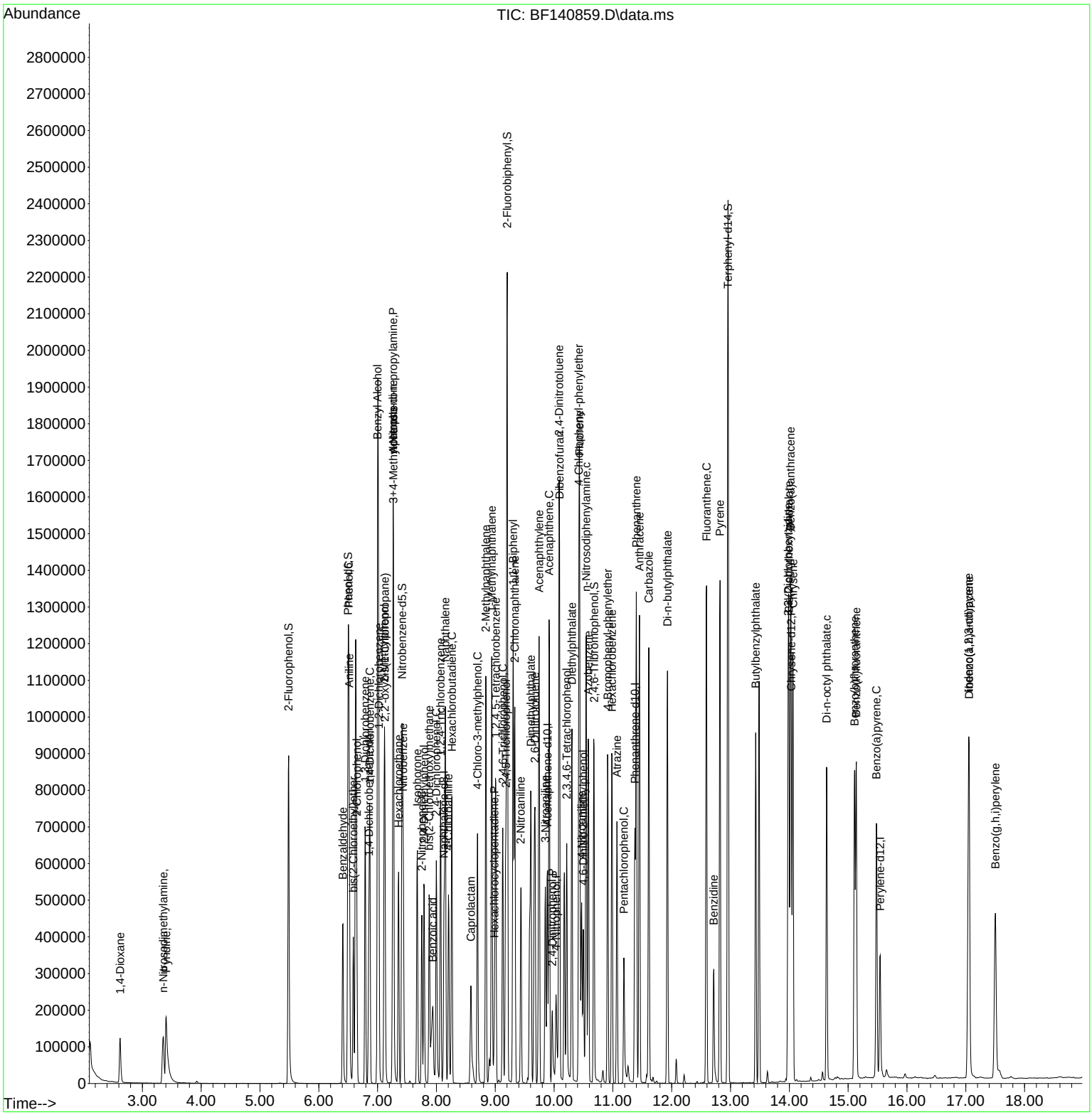
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	142411	38.395	ng	100
46) 1,1'-Biphenyl	9.304	154	542419	38.044	ng	100
47) 2-Chloronaphthalene	9.334	162	419357	38.447	ng	100
48) 2-Nitroaniline	9.434	65	128421	38.984	ng	100
49) Acenaphthylene	9.745	152	621763	38.790	ng	100
50) Dimethylphthalate	9.604	163	487517	38.566	ng	100
51) 2,6-Dinitrotoluene	9.675	165	111990	38.752	ng	100
52) Acenaphthene	9.916	154	398965	38.965	ng	100
53) 3-Nitroaniline	9.851	138	113227	39.481	ng	100
54) 2,4-Dinitrophenol	9.969	184	47982	37.788	ng	100
55) Dibenzofuran	10.092	168	619833	39.066	ng	100
56) 4-Nitrophenol	10.034	139	59043	40.590	ng	100
57) 2,4-Dinitrotoluene	10.086	165	150199	39.502	ng	100
58) Fluorene	10.434	166	517920	39.568	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.216	232	127023	42.028	ng	100
60) Diethylphthalate	10.304	149	516146	39.375	ng	100
61) 4-Chlorophenyl-phenyle...	10.422	204	256836	39.062	ng	100
62) 4-Nitroaniline	10.469	138	121143	40.423	ng	100
63) Azobenzene	10.581	77	490731	39.821	ng	100
65) 4,6-Dinitro-2-methylph...	10.498	198	84370	41.148	ng	100
66) n-Nitrosodiphenylamine	10.545	169	433296	38.947	ng	100
67) 4-Bromophenyl-phenylether	10.910	248	159117	39.307	ng	100
68) Hexachlorobenzene	10.986	284	177811	38.742	ng	100
69) Atrazine	11.069	200	121493	39.101	ng	100
70) Pentachlorophenol	11.186	266	70638	42.072	ng	100
71) Phenanthrene	11.398	178	711714	38.248	ng	100
72) Anthracene	11.451	178	702321	38.326	ng	100
73) Carbazole	11.610	167	689096	38.392	ng	100
74) Di-n-butylphthalate	11.928	149	816942	38.782	ng	100
75) Fluoranthene	12.592	202	817749	38.159	ng	100
77) Benzidine	12.716	184	194791	39.598	ng	100
78) Pyrene	12.822	202	818937	38.208	ng	100
80) Butylbenzylphthalate	13.427	149	311465	39.493	ng	100
81) Benzo(a)anthracene	14.022	228	654937	38.340	ng	100
82) 3,3'-Dichlorobenzidine	13.980	252	198481	38.511	ng	100
83) Chrysene	14.063	228	612484	39.430	ng	100
84) Bis(2-ethylhexyl)phtha...	13.992	149	395970	38.939	ng	100
85) Di-n-octyl phthalate	14.633	149	589634	38.326	ng	100
87) Indeno(1,2,3-cd)pyrene	17.051	276	514416	40.662	ng	100
88) Benzo(b)fluoranthene	15.110	252	524660	37.283	ng	100
89) Benzo(k)fluoranthene	15.139	252	496310	41.115	ng	100
90) Benzo(a)pyrene	15.480	252	435015	39.478	ng	100
91) Dibenzo(a,h)anthracene	17.057	278	428983	40.931	ng	100
92) Benzo(g,h,i)perylene	17.504	276	434898	40.771	ng	100

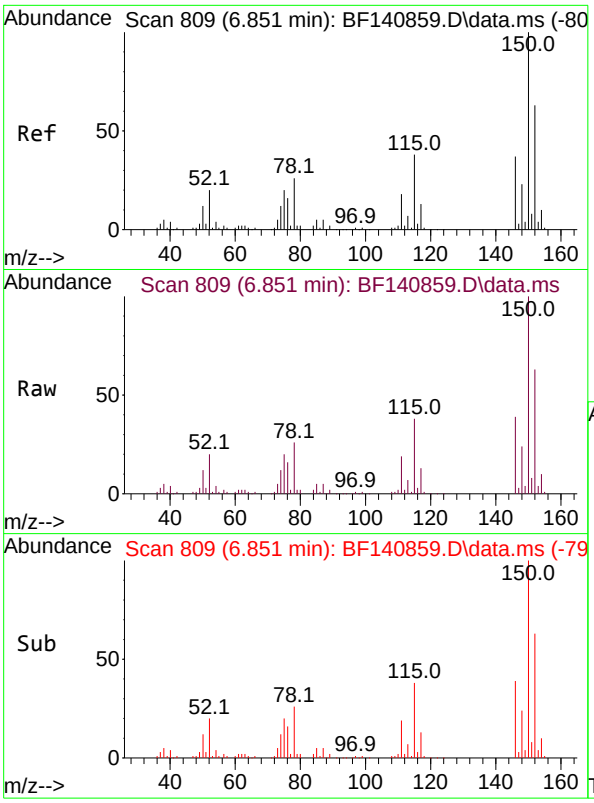
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140859.D
Acq On : 16 Dec 2024 14:26
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Dec 16 16:49:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



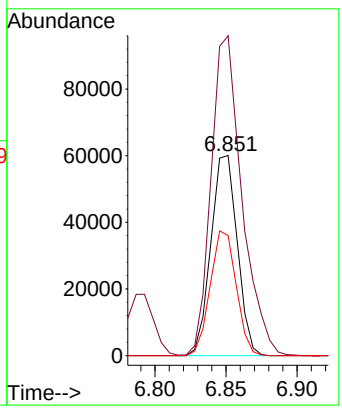


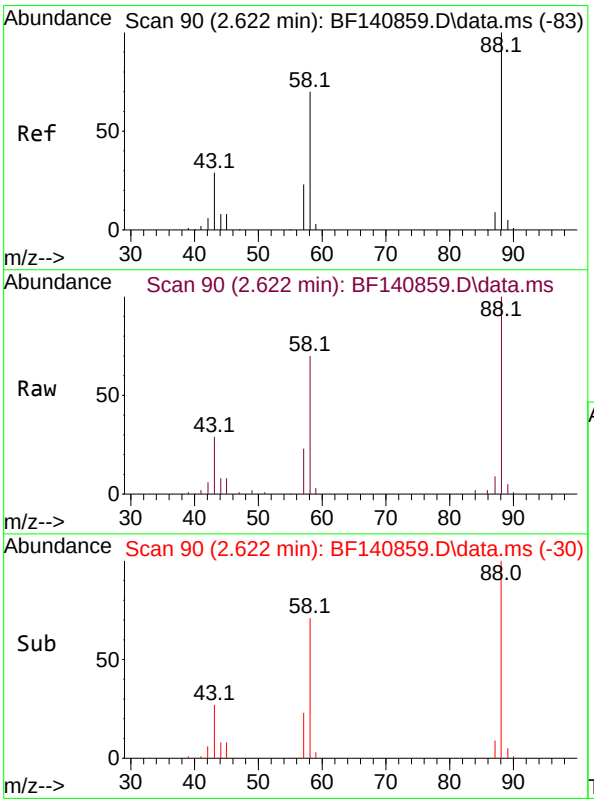
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 77674

Ion	Ratio	Lower	Upper
152	100		
150	159.9	127.9	191.9
115	60.0	48.0	72.0

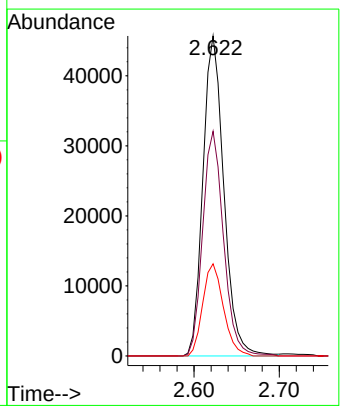


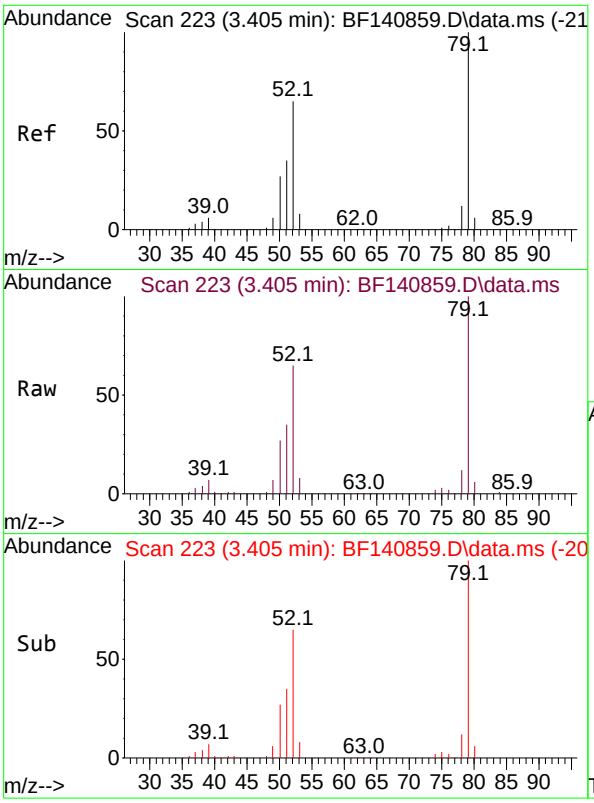


#2
1,4-Dioxane
Concen: 38.433 ng
RT: 2.622 min Scan# 90
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 88 Resp: 78111

Ion	Ratio	Lower	Upper
88	100		
58	69.8	55.8	83.8
43	28.4	22.7	34.1



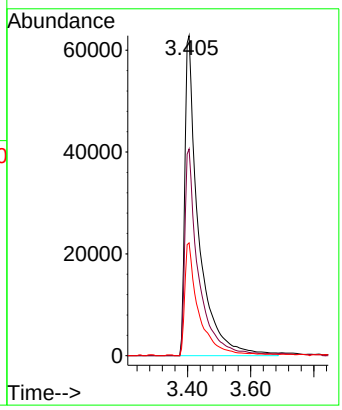


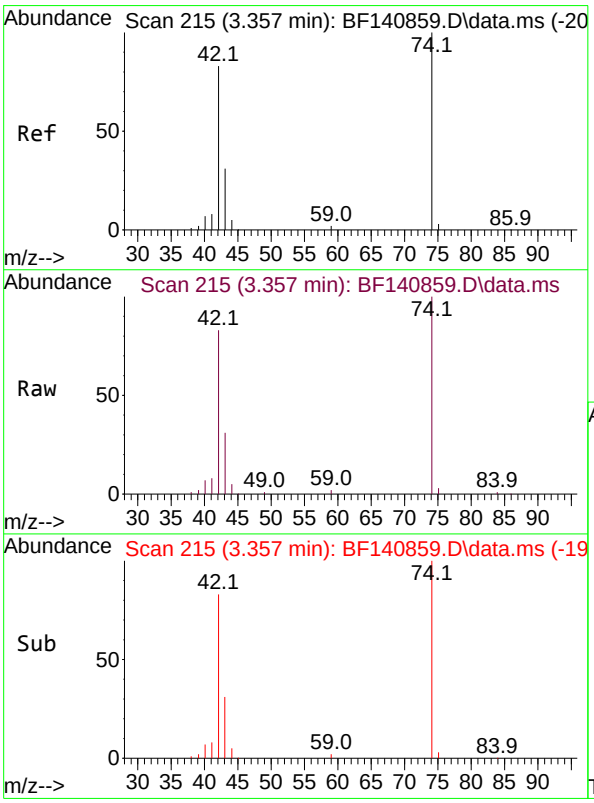
#3
Pyridine
Concen: 40.326 ng
RT: 3.405 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 189803

Ion	Ratio	Lower	Upper
79	100		
52	64.6	51.7	77.5
51	35.3	28.2	42.4

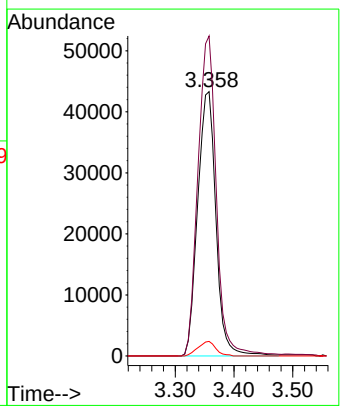


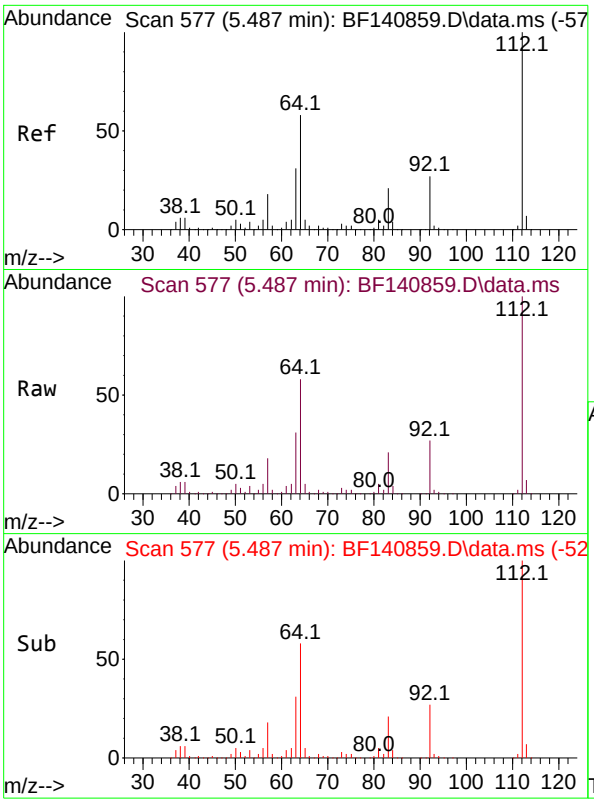


#4
n-Nitrosodimethylamine
Concen: 39.510 ng
RT: 3.357 min Scan# 215
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 42 Resp: 93747

Ion	Ratio	Lower	Upper
42	100		
74	121.1	96.9	145.3
44	5.5	4.4	6.6



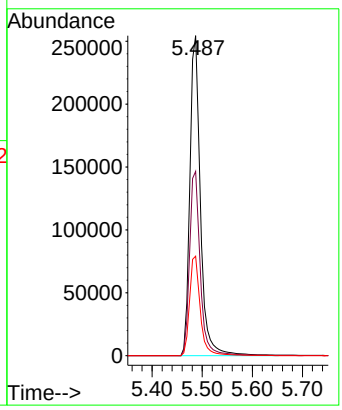


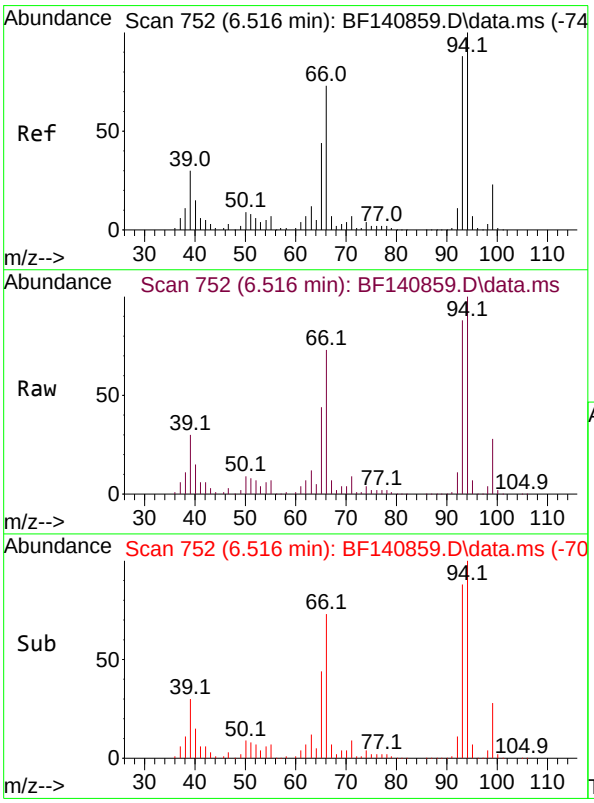
#5
2-Fluorophenol
Concen: 78.982 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 372670

Ion	Ratio	Lower	Upper
112	100		
64	57.6	46.1	69.1
63	31.1	24.9	37.3

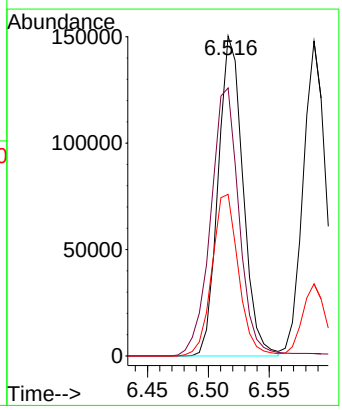


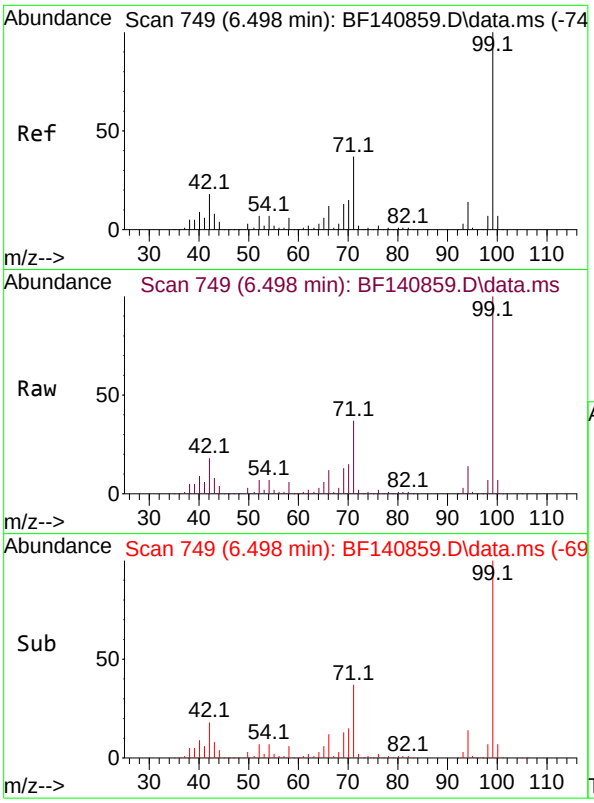


#6
Aniline
Concen: 39.944 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 93 Resp: 213440

Ion	Ratio	Lower	Upper
93	100		
66	83.7	67.0	100.4
65	50.5	40.4	60.6



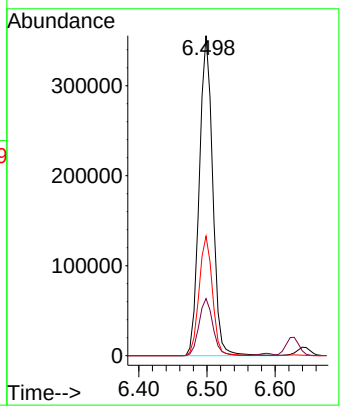


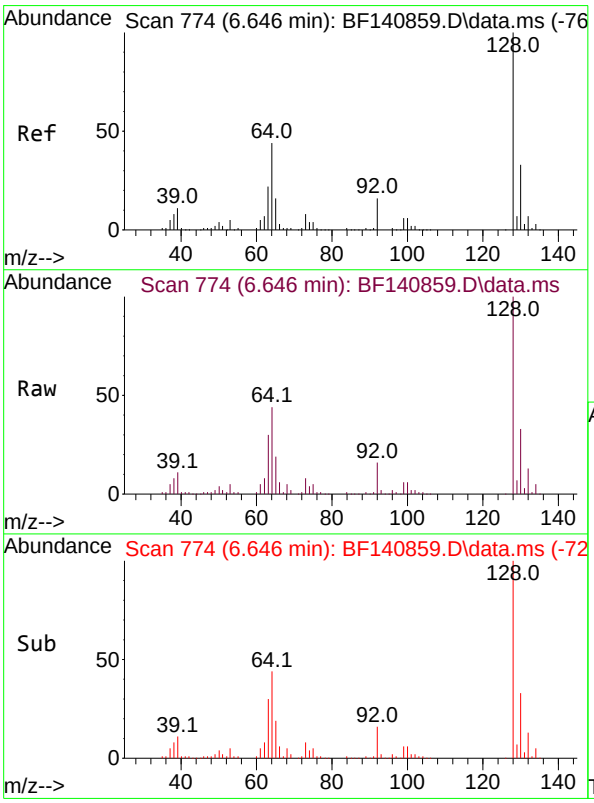
#7
Phenol-d6
Concen: 77.902 ng
RT: 6.498 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 486855

Ion	Ratio	Lower	Upper
99	100		
42	17.9	14.3	21.5
71	37.4	29.9	44.9

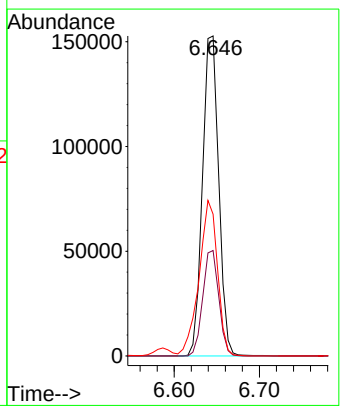


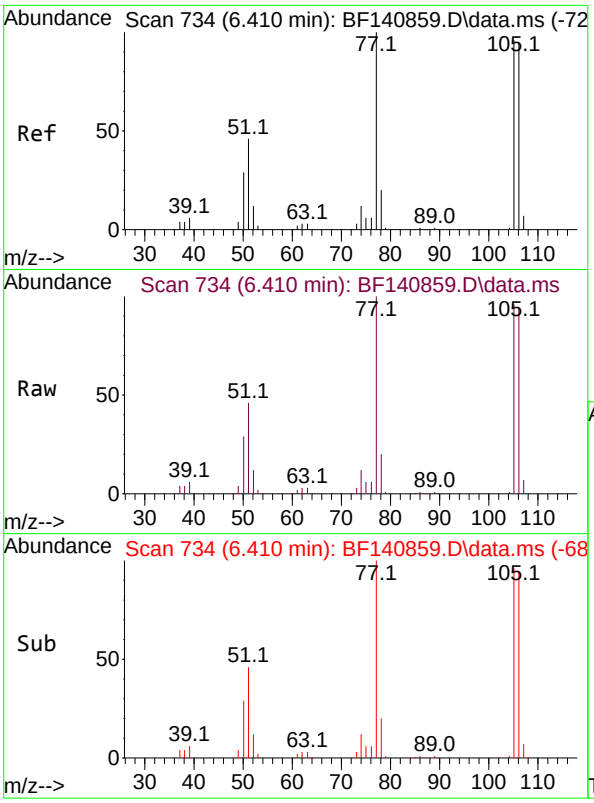


#8
2-Chlorophenol
Concen: 39.277 ng
RT: 6.646 min Scan# 774
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:128 Resp: 202098

Ion	Ratio	Lower	Upper
128	100		
130	32.9	12.9	52.9
64	44.3	24.3	64.3



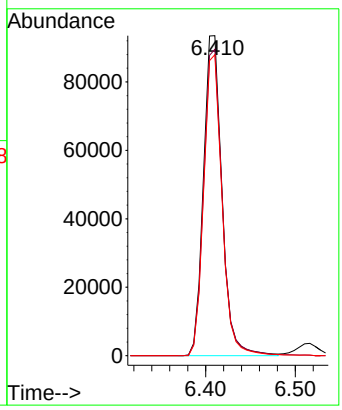


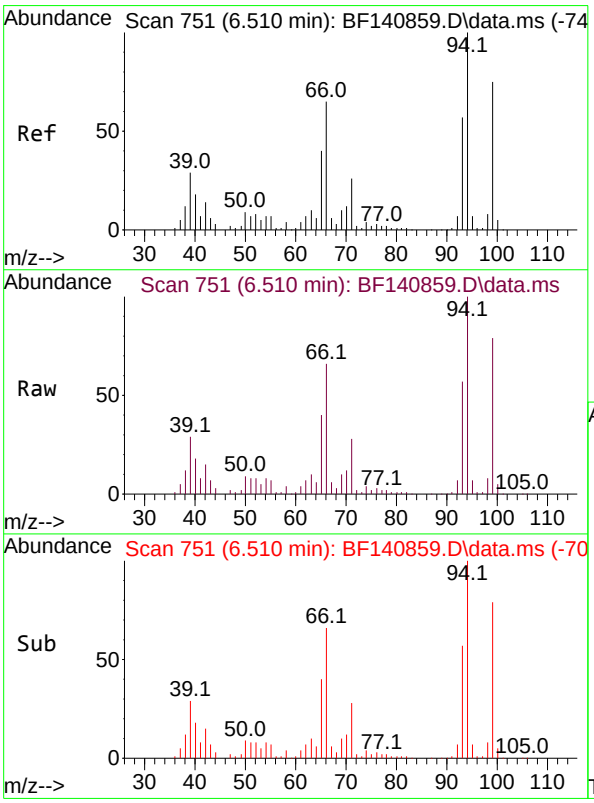
#9
Benzaldehyde
Concen: 38.761 ng
RT: 6.410 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 134222

Ion	Ratio	Lower	Upper
77	100		
105	95.8	75.8	115.8
106	94.1	74.1	114.1

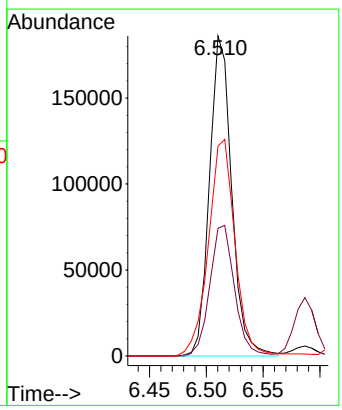


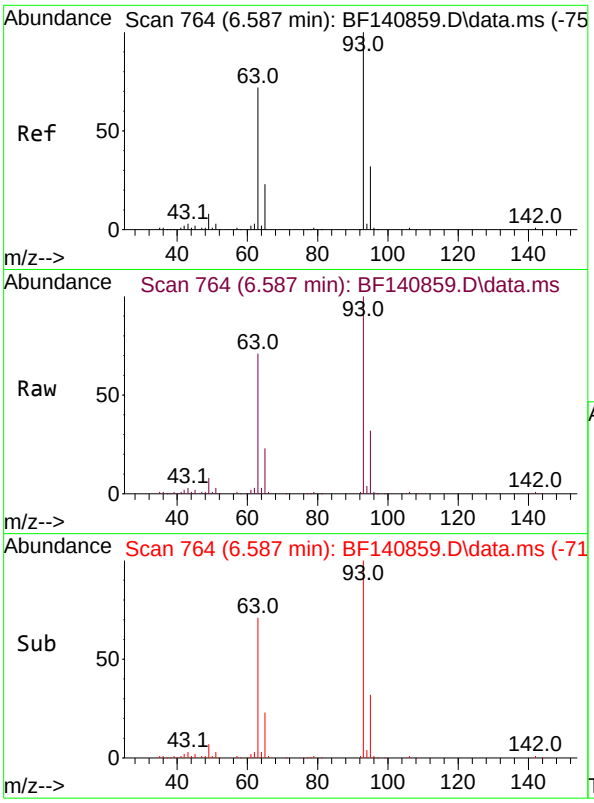


#10
Phenol
Concen: 39.100 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 94 Resp: 253259

Ion	Ratio	Lower	Upper
94	100		
65	39.9	19.9	59.9
66	65.6	45.6	85.6



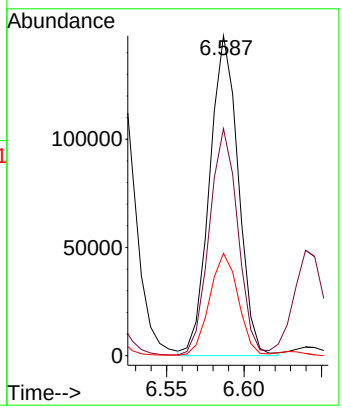


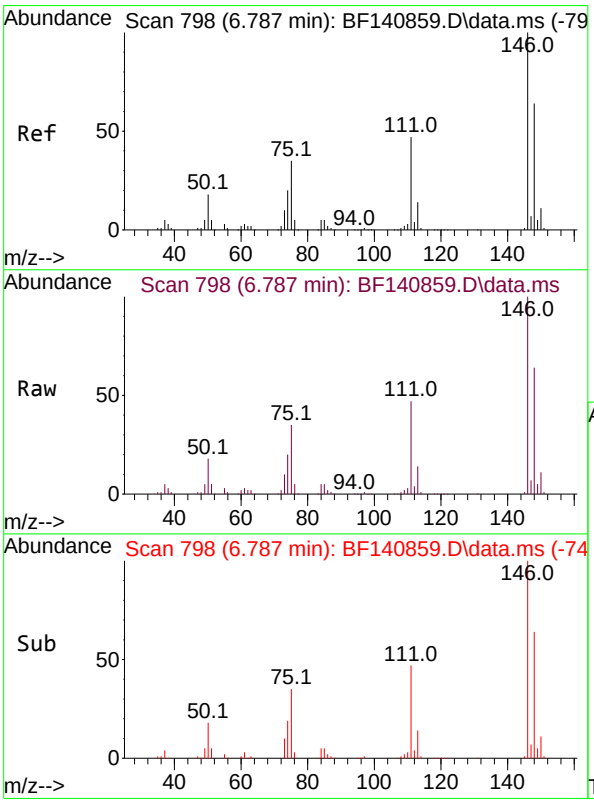
#11
bis(2-Chloroethyl)ether
Concen: 39.459 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 190608

Ion	Ratio	Lower	Upper
93	100		
63	71.0	51.0	91.0
95	32.0	12.0	52.0

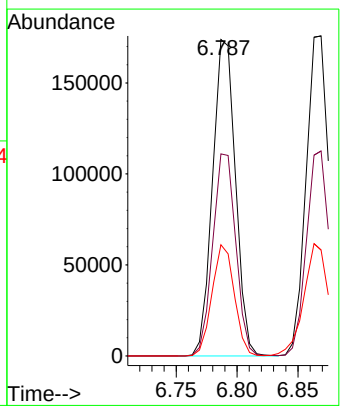


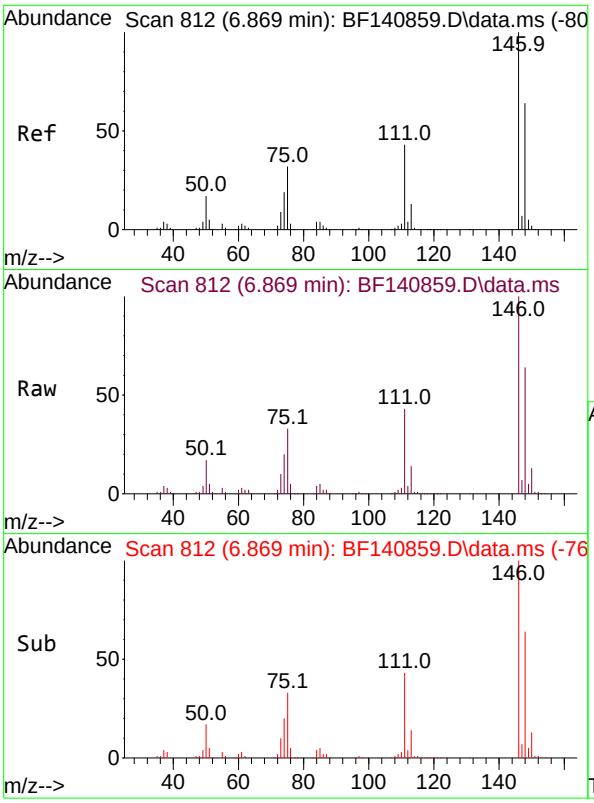


#12
1,3-Dichlorobenzene
Concen: 38.918 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:146 Resp: 228181

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
75	35.1	28.1	42.1



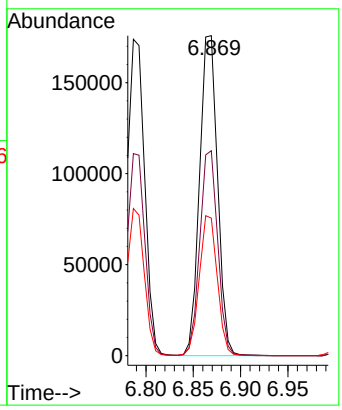


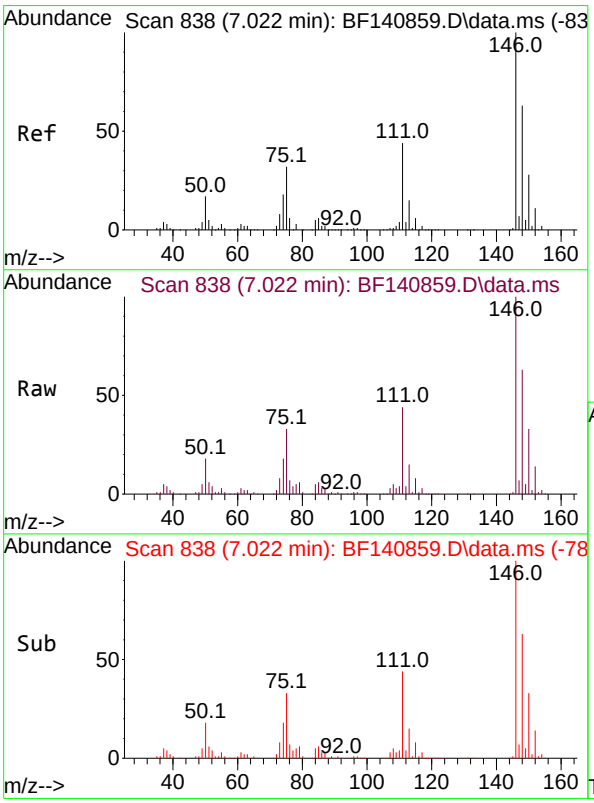
#13
1,4-Dichlorobenzene
Concen: 39.065 ng
RT: 6.869 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 232493

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.3	76.9
111	43.0	34.4	51.6

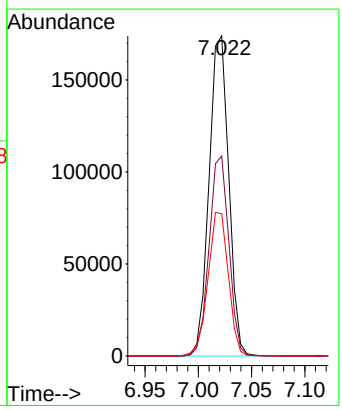


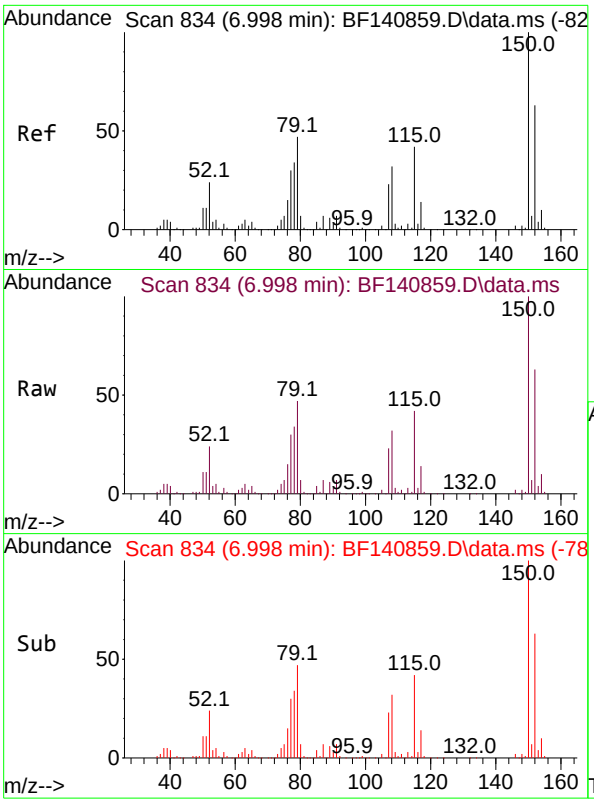


#14
1,2-Dichlorobenzene
Concen: 39.737 ng
RT: 7.022 min Scan# 838
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:146 Resp: 223134

Ion	Ratio	Lower	Upper
146	100		
148	62.5	50.0	75.0
111	44.5	35.6	53.4



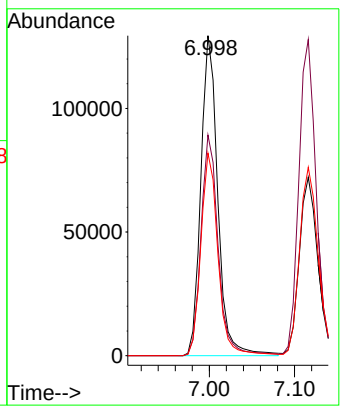


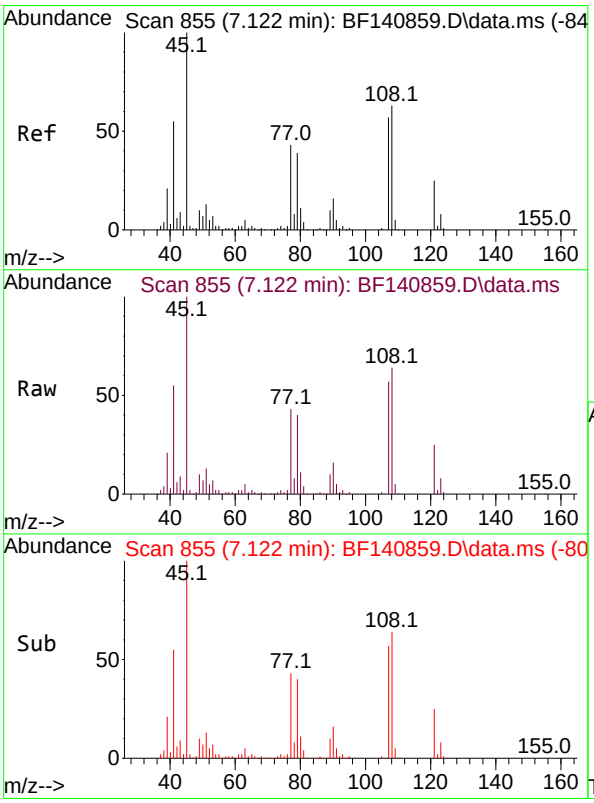
#15
Benzyl Alcohol
Concen: 39.968 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 178597

Ion	Ratio	Lower	Upper
79	100		
108	68.9	55.1	82.7
77	63.3	50.6	76.0

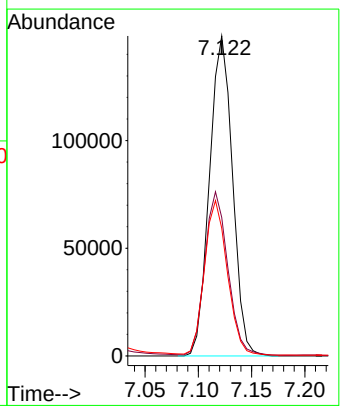


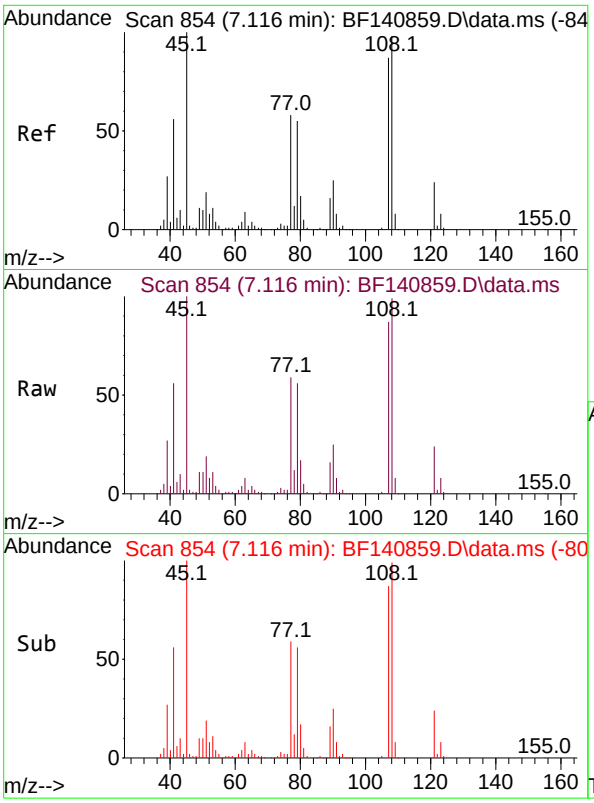


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.269 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 45 Resp: 223455

Ion	Ratio	Lower	Upper
45	100		
77	43.3	23.3	63.3
79	40.0	20.0	60.0



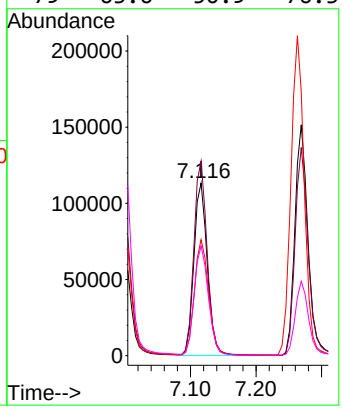


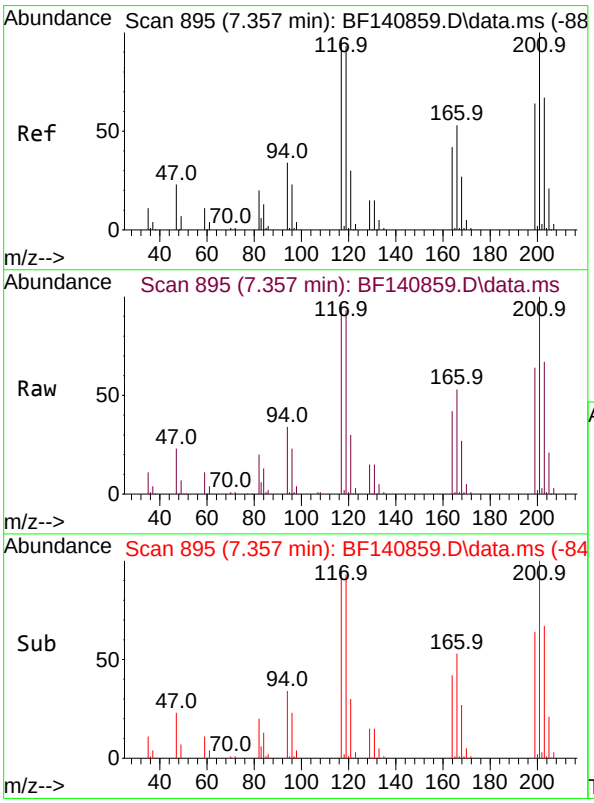
#17
2-Methylphenol
Concen: 39.284 ng
RT: 7.116 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 161380

Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.2	135.4
77	67.2	53.8	80.6
79	63.6	50.9	76.3

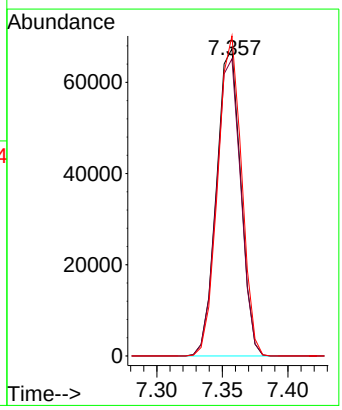


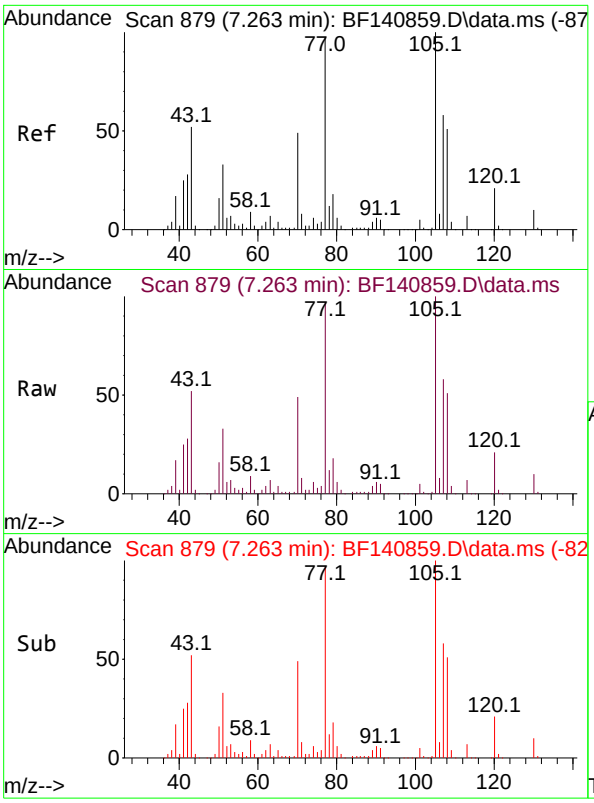


#18
Hexachloroethane
Concen: 38.994 ng
RT: 7.357 min Scan# 895
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:117 Resp: 86395

Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.4	116.0
201	104.2	83.4	125.0



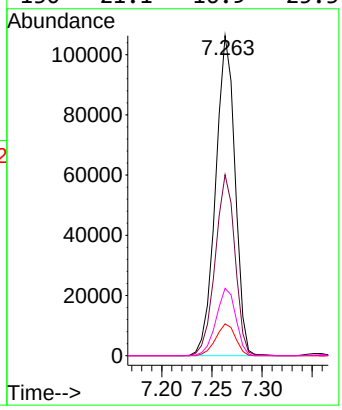


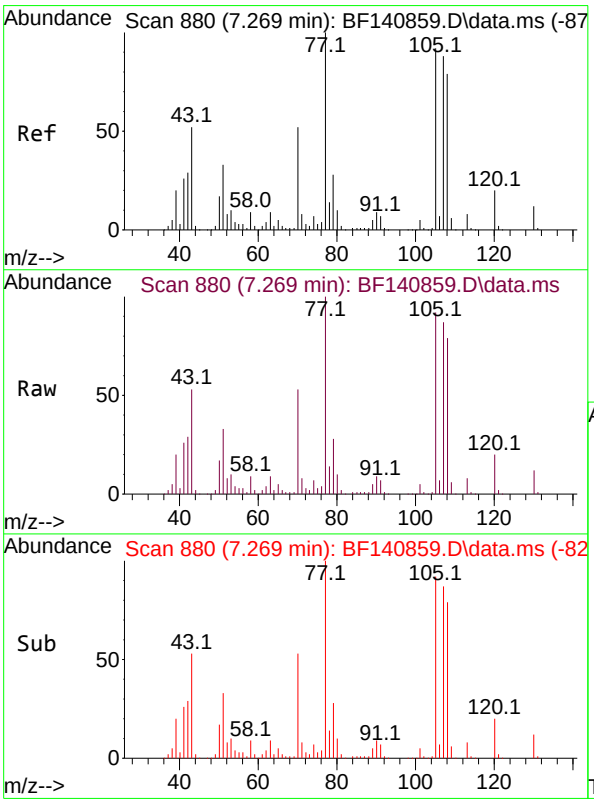
#19
n-Nitroso-di-n-propylamine
Concen: 38.220 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 143279

Ion	Ratio	Lower	Upper
70	100		
42	56.6	45.3	67.9
101	10.0	8.0	12.0
130	21.1	16.9	25.3

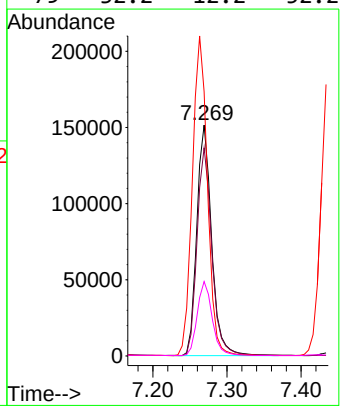


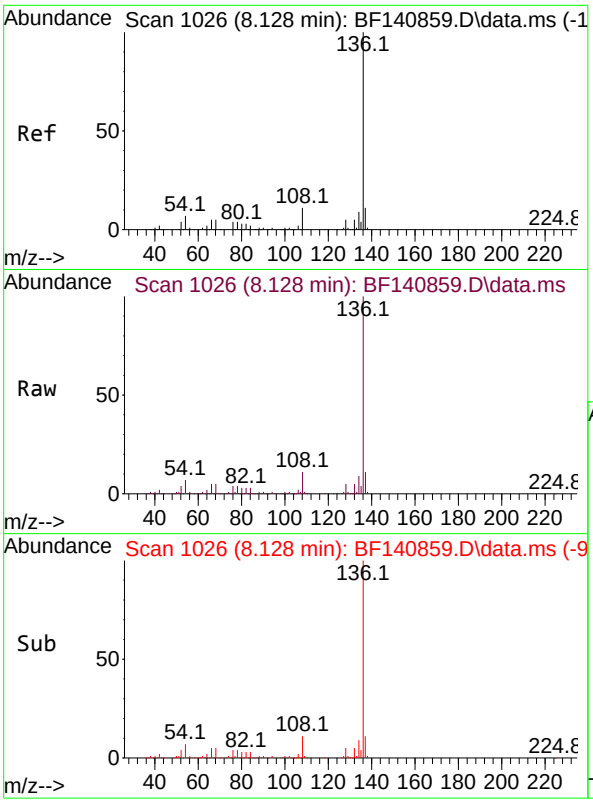


#20
3+4-Methylphenols
Concen: 38.648 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:107 Resp: 210531

Ion	Ratio	Lower	Upper
107	100		
108	90.1	70.1	110.1
77	114.4	94.4	134.4
79	32.2	12.2	52.2



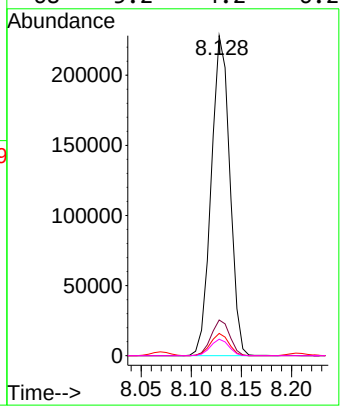


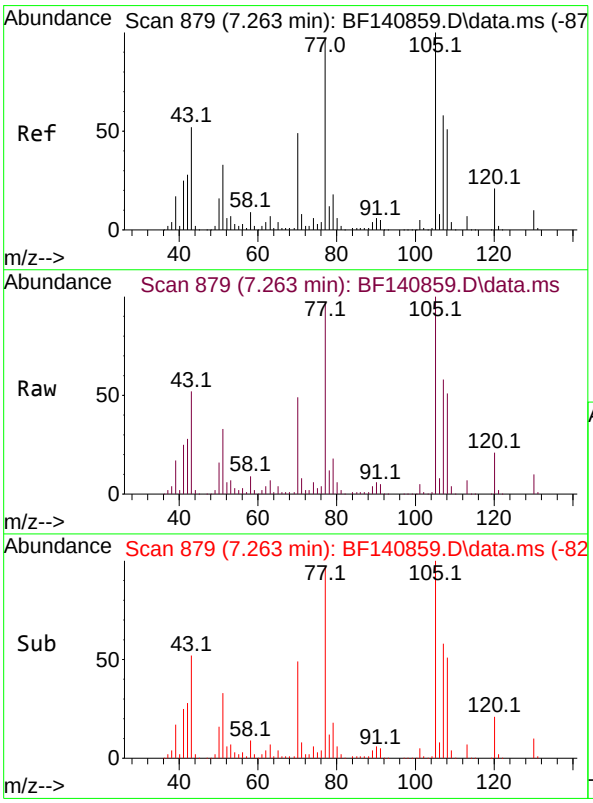
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 293537

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.0	5.6	8.4
68	5.2	4.2	6.2

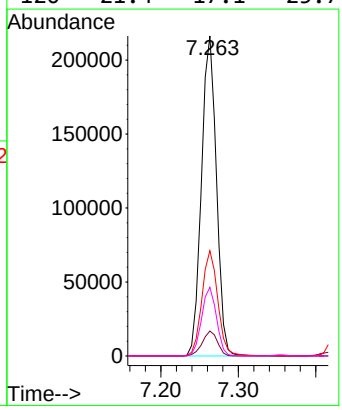


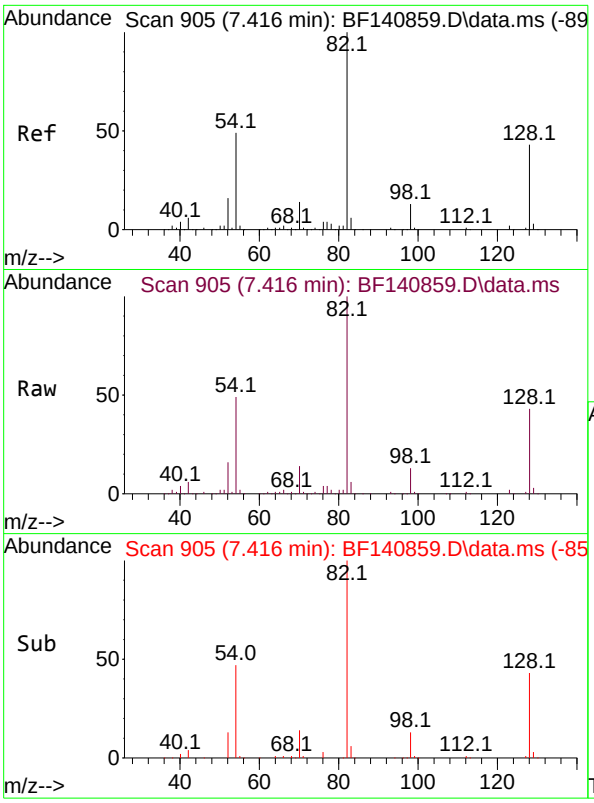


#22
Acetophenone
Concen: 39.446 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:105 Resp: 289650

Ion	Ratio	Lower	Upper
105	100		
71	7.8	6.2	9.4
51	32.9	26.3	39.5
120	21.4	17.1	25.7



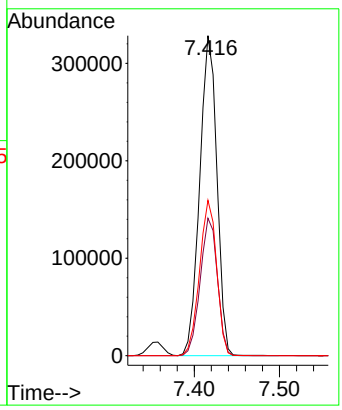


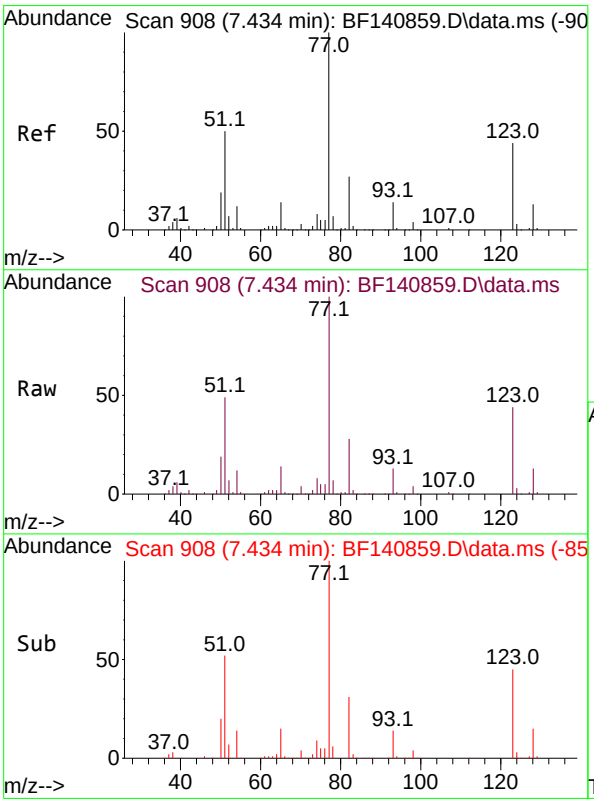
#23
Nitrobenzene-d5
Concen: 78.576 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 461011

Ion	Ratio	Lower	Upper
82	100		
128	43.0	34.4	51.6
54	48.5	38.8	58.2

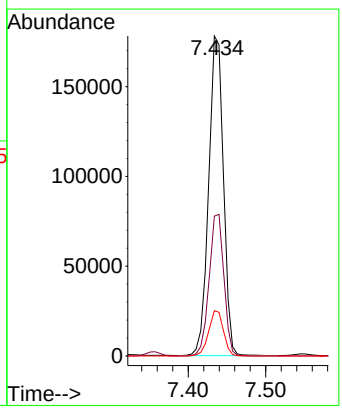


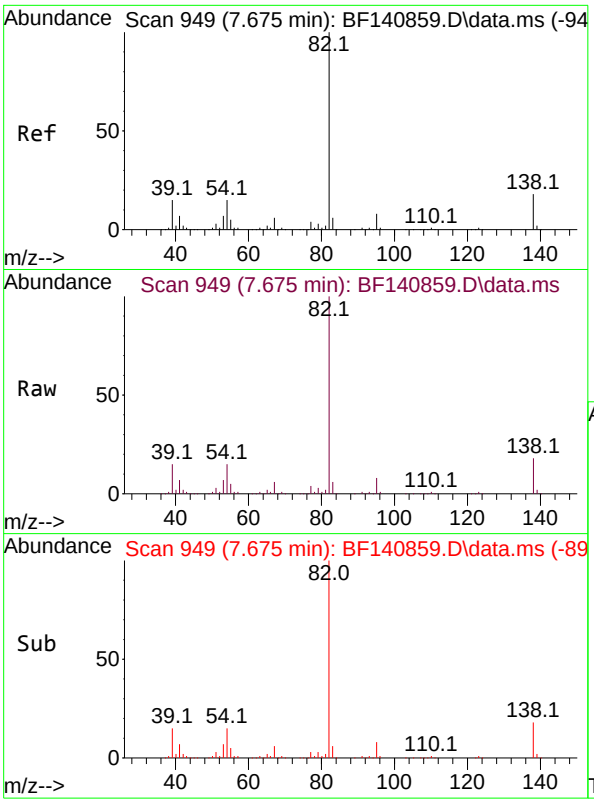


#24
Nitrobenzene
Concen: 39.238 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 77 Resp: 235847

Ion	Ratio	Lower	Upper
77	100		
123	43.7	35.0	52.4
65	14.2	11.4	17.0



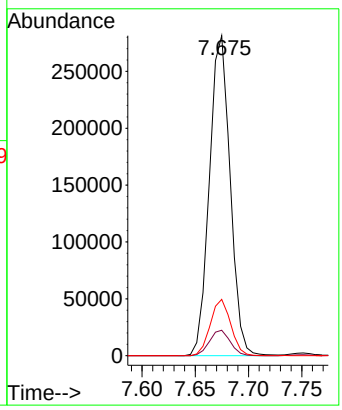


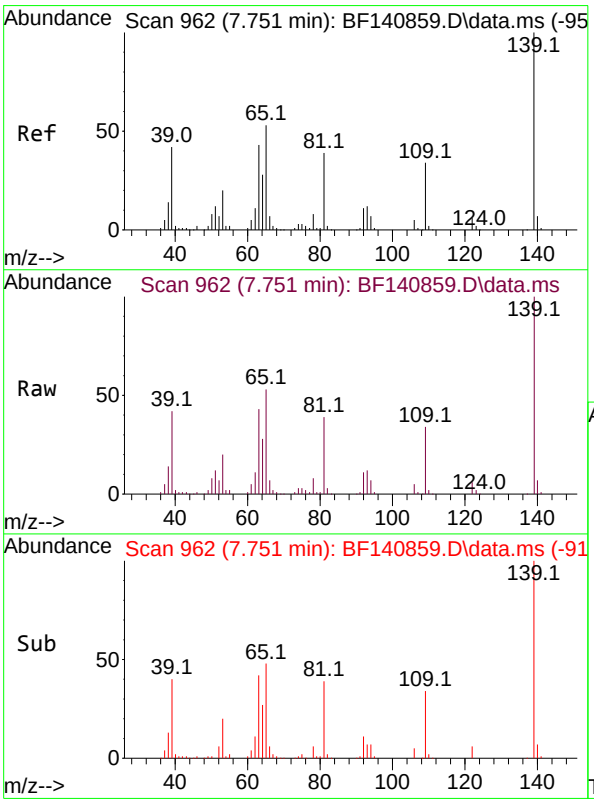
#25
Isophorone
Concen: 38.852 ng
RT: 7.675 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 381938

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	17.6	14.1	21.1

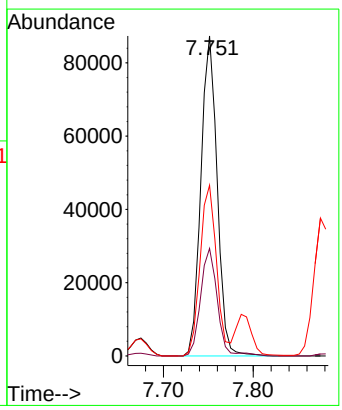


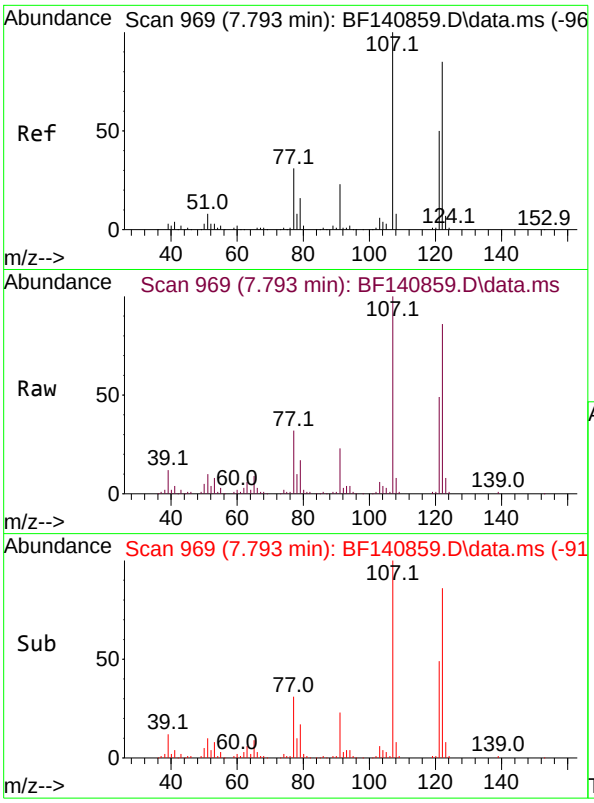


#26
2-Nitrophenol
Concen: 39.666 ng
RT: 7.751 min Scan# 962
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:139 Resp: 109806

Ion	Ratio	Lower	Upper
139	100		
109	33.6	26.9	40.3
65	53.3	42.6	64.0



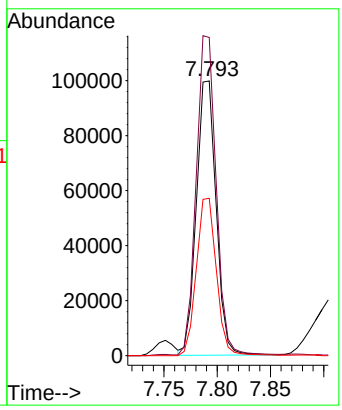


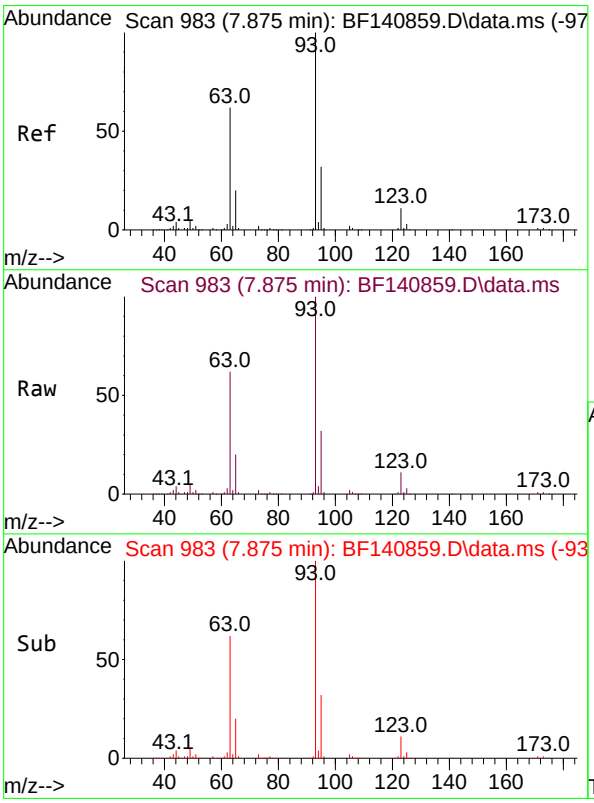
#27
2,4-Dimethylphenol
Concen: 39.892 ng
RT: 7.793 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 128970

Ion	Ratio	Lower	Upper
122	100		
107	115.8	92.6	139.0
121	57.3	45.8	68.8

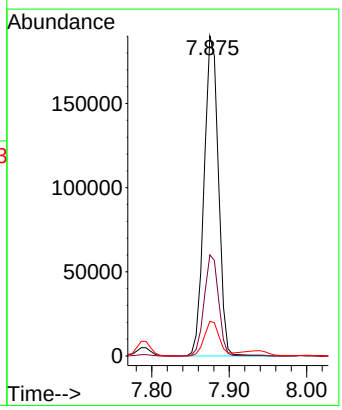


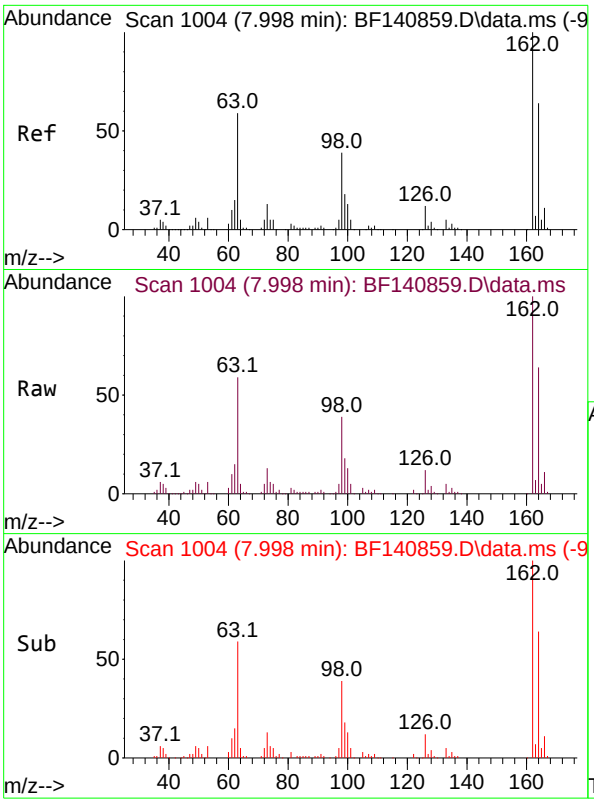


#28
bis(2-Chloroethoxy)methane
Concen: 39.846 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 93 Resp: 244652

Ion	Ratio	Lower	Upper
93	100		
95	31.6	25.3	37.9
123	10.8	8.6	13.0



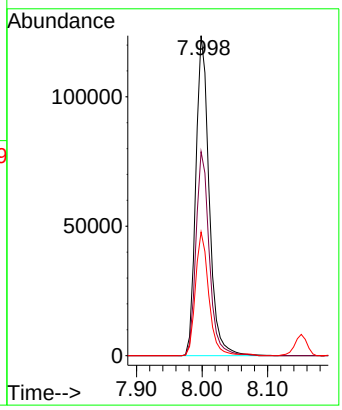


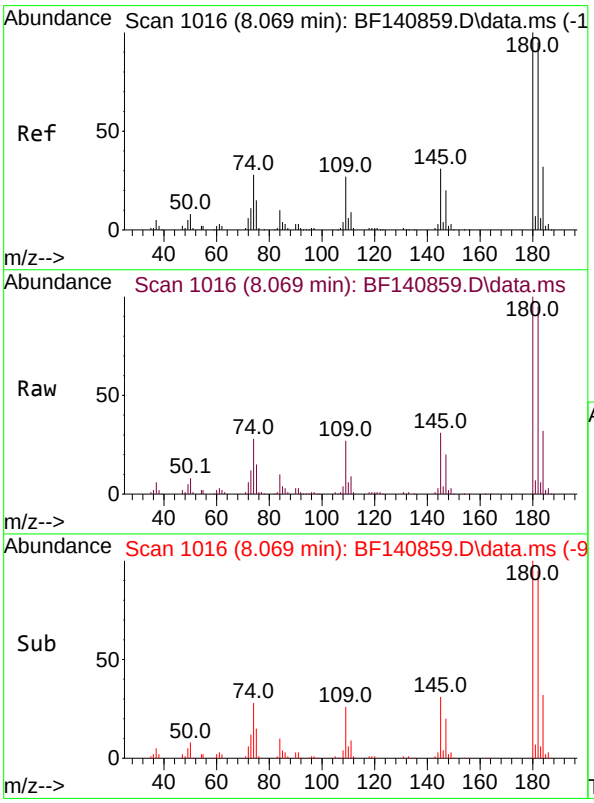
#29
2,4-Dichlorophenol
Concen: 39.299 ng
RT: 7.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 175409

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.7	83.7
98	38.6	18.6	58.6

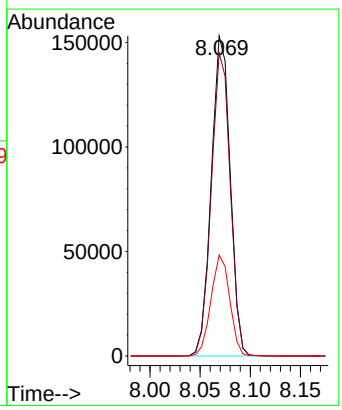


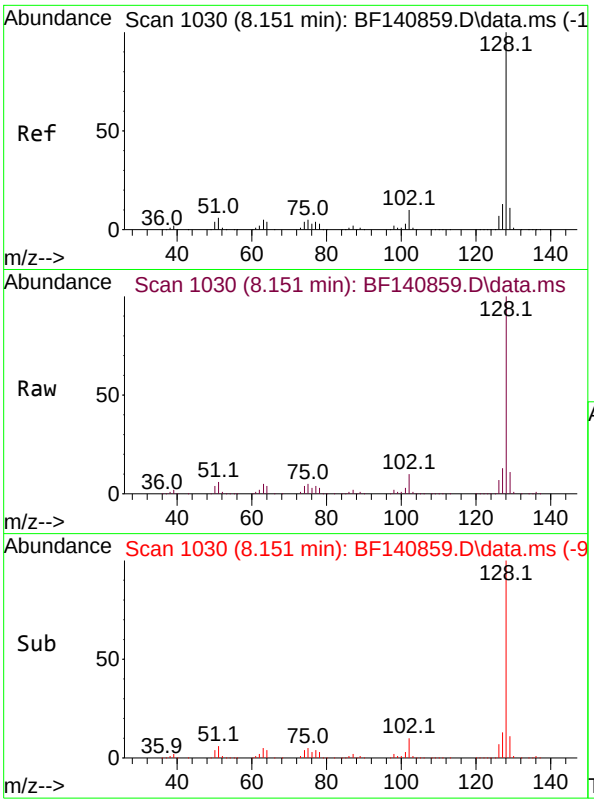


#30
1,2,4-Trichlorobenzene
Concen: 39.180 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:180 Resp: 200471

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.6
145	31.5	25.2	37.8



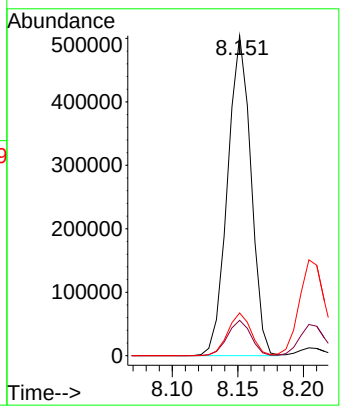


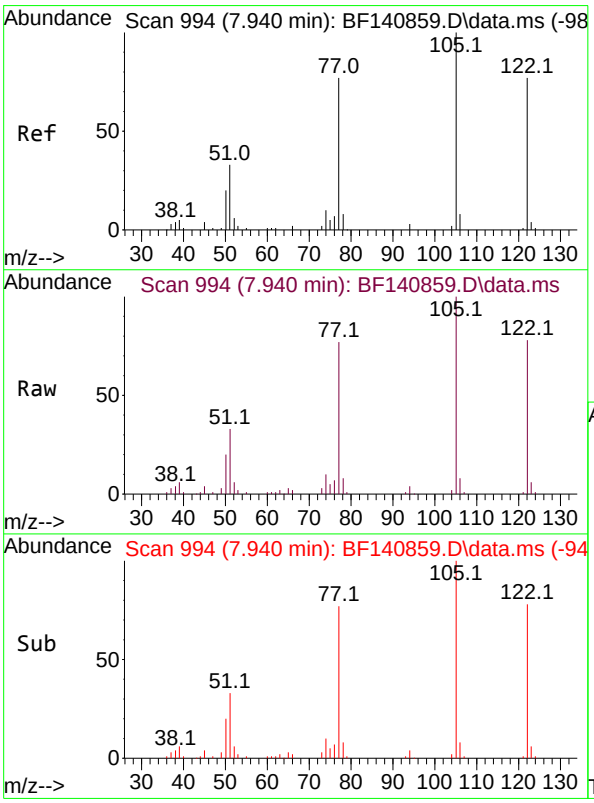
#31
Naphthalene
Concen: 38.860 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 626585

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.3	10.6	16.0

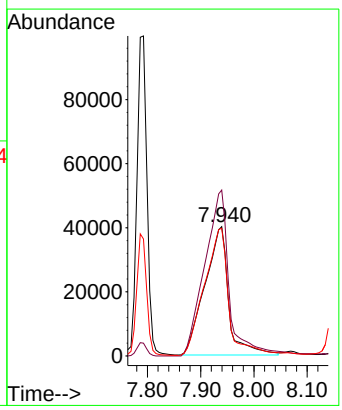


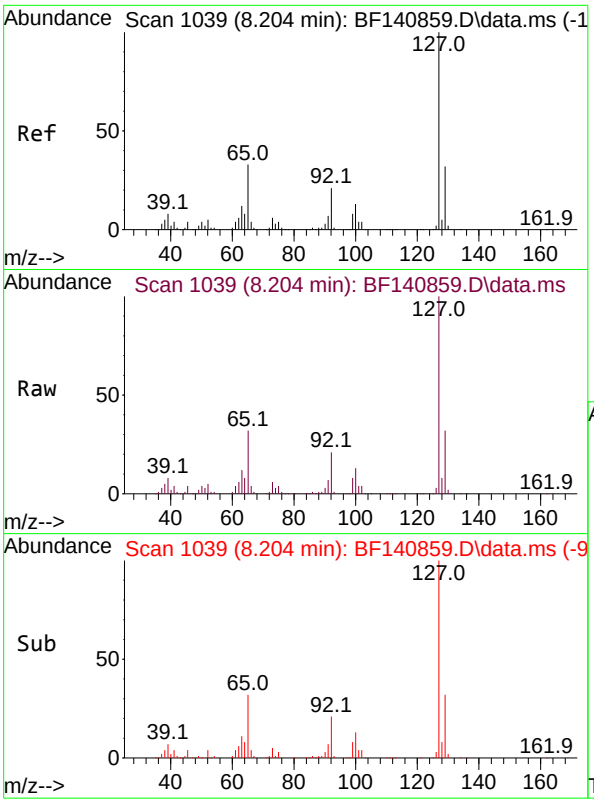


#32
Benzoic acid
Concen: 40.510 ng
RT: 7.940 min Scan# 994
Delta R.T. -0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:122 Resp: 124210

Ion	Ratio	Lower	Upper
122	100		
105	128.3	108.3	148.3
77	98.8	78.8	118.8



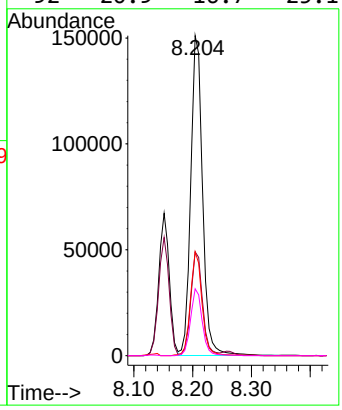


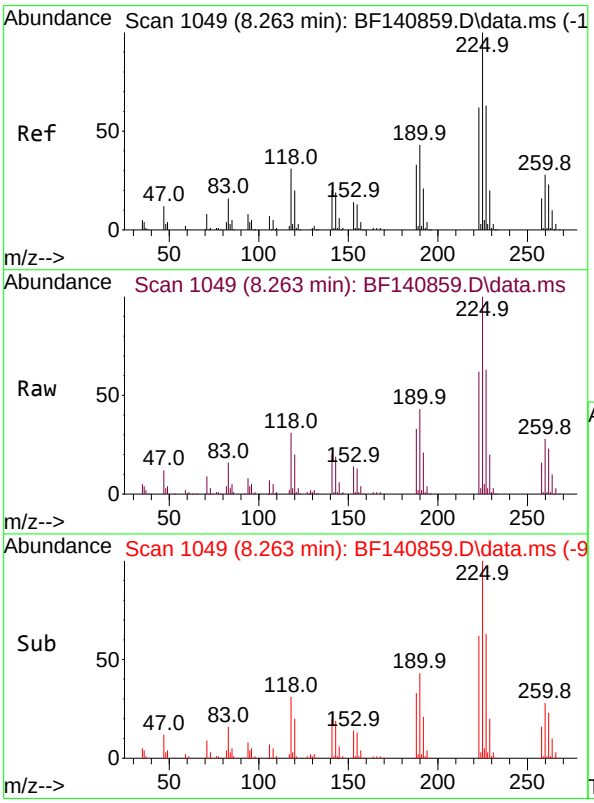
#33
4-Chloroaniline
Concen: 39.582 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 211976

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.0	39.0
65	32.5	26.0	39.0
92	20.9	16.7	25.1

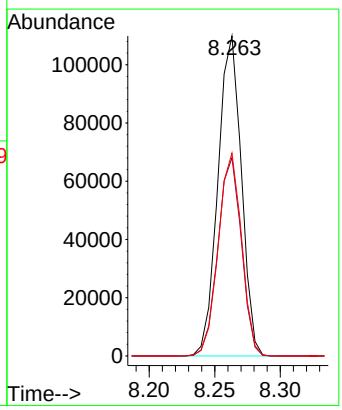


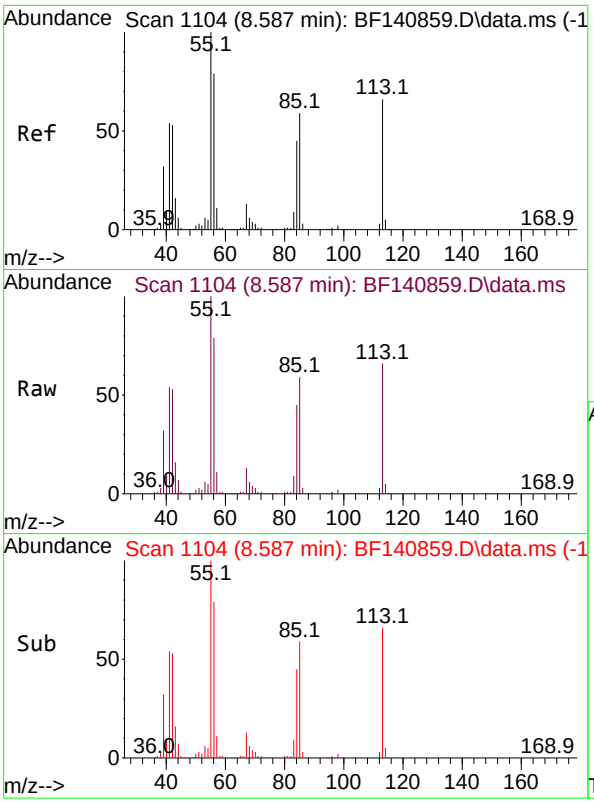


#34
Hexachlorobutadiene
Concen: 39.646 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:225 Resp: 136482

Ion	Ratio	Lower	Upper
225	100		
223	62.0	49.6	74.4
227	63.4	50.7	76.1



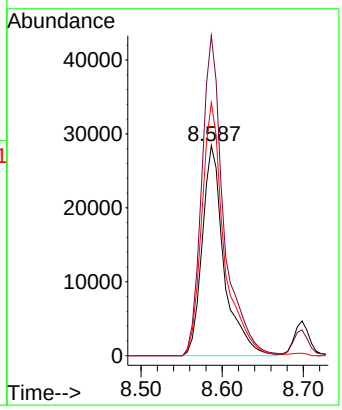


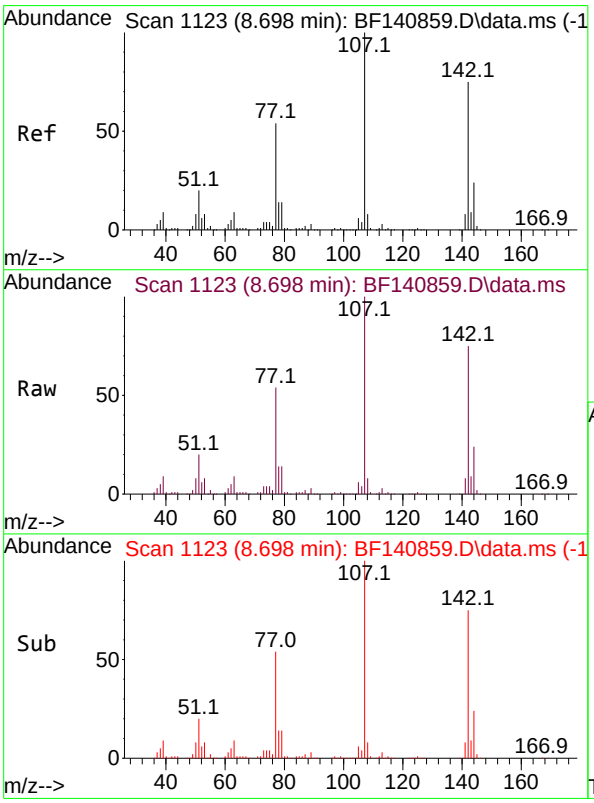
#35
Caprolactam
Concen: 39.930 ng
RT: 8.587 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 53059

Ion	Ratio	Lower	Upper
113	100		
55	152.3	132.3	172.3
56	120.3	100.3	140.3

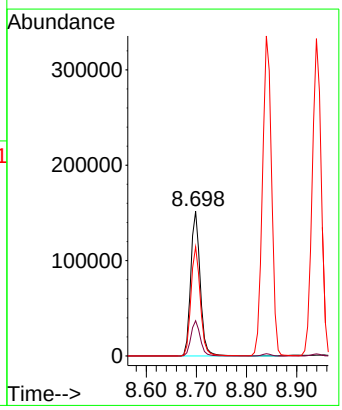


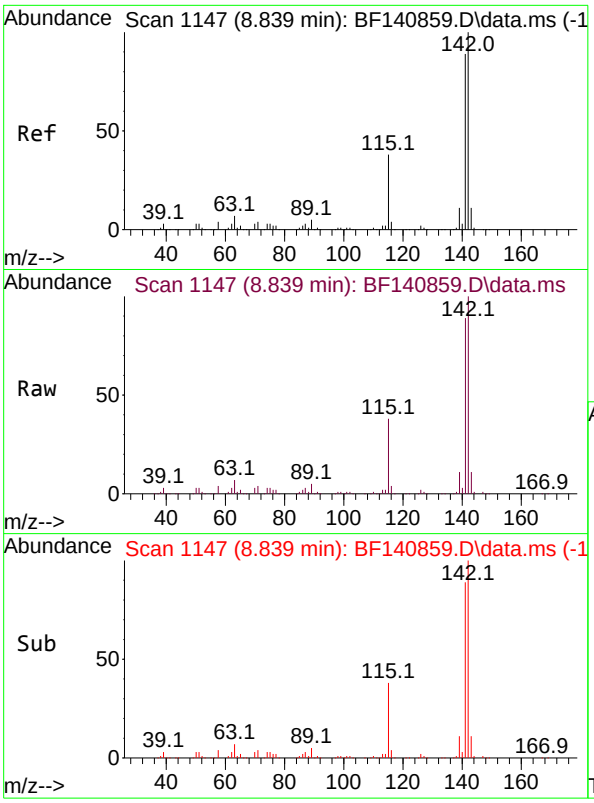


#36
4-Chloro-3-methylphenol
Concen: 39.473 ng
RT: 8.698 min Scan# 1123
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:107 Resp: 198298

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.4	29.2
142	75.4	60.3	90.5



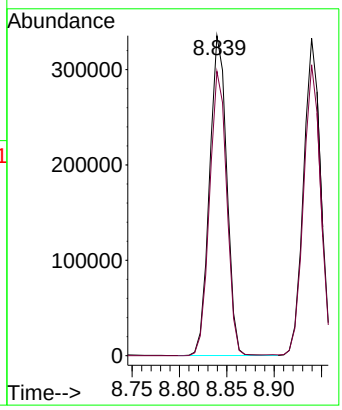


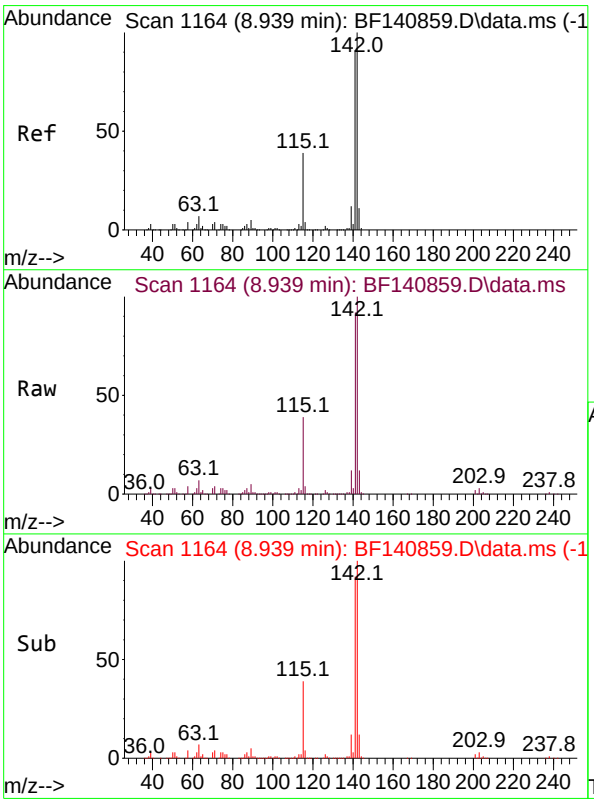
#37
2-Methylnaphthalene
Concen: 39.693 ng
RT: 8.839 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 423369

Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.0	106.6

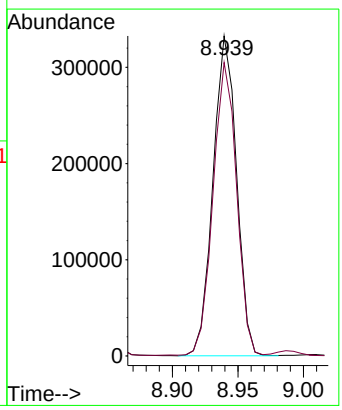


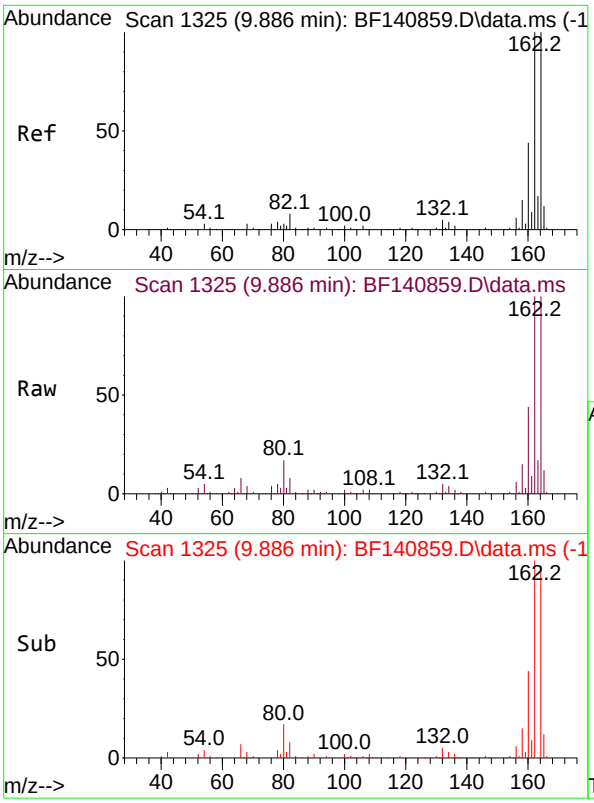


#38
1-Methylnaphthalene
Concen: 39.281 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:142 Resp: 414363

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.4	110.0



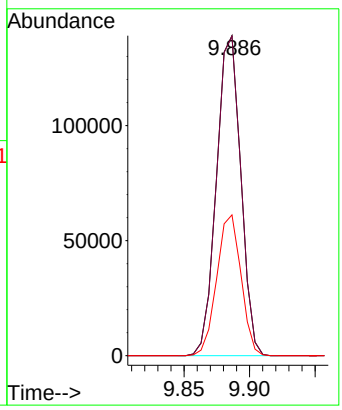


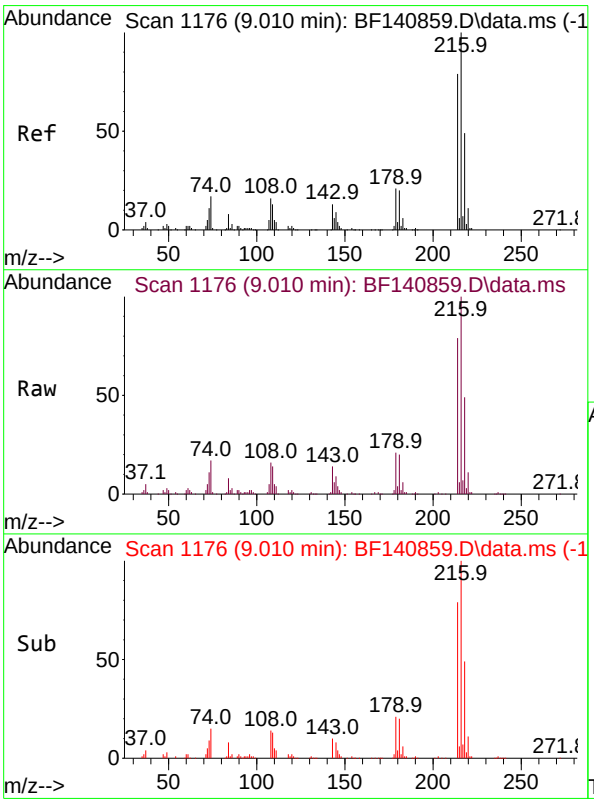
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 179301

Ion	Ratio	Lower	Upper
164	100		
162	99.9	79.9	119.9
160	44.0	35.2	52.8

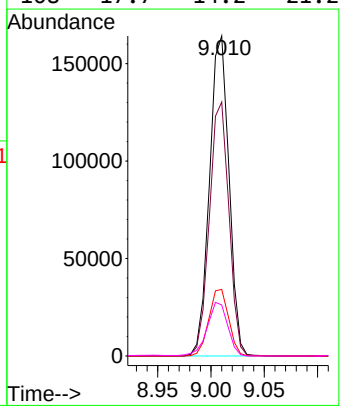


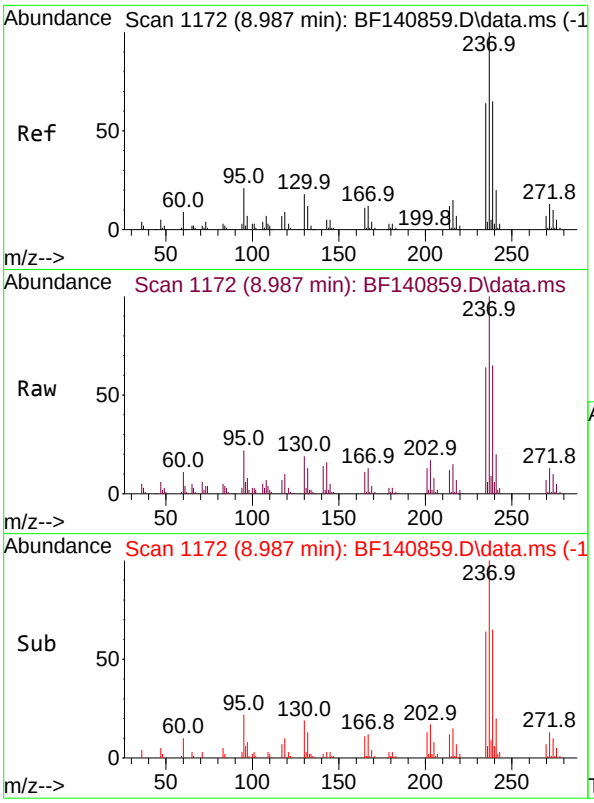


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.768 ng
RT: 9.010 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:216 Resp: 208141

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.6	95.4
179	21.2	17.0	25.4
108	17.7	14.2	21.2



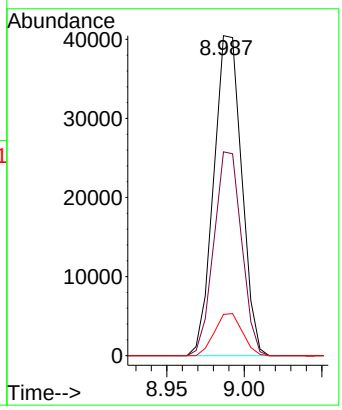


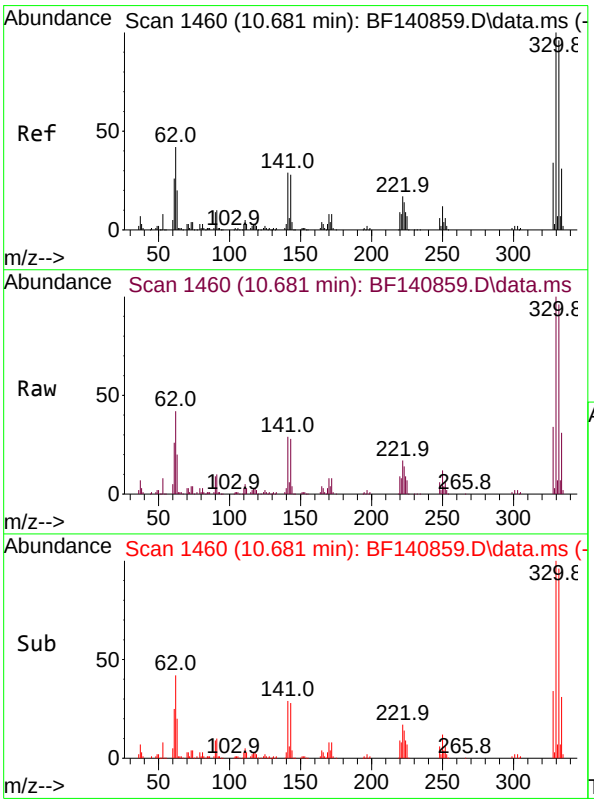
#41
Hexachlorocyclopentadiene
Concen: 39.476 ng
RT: 8.987 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 50793

Ion	Ratio	Lower	Upper
237	100		
235	63.7	43.7	83.7
272	12.9	0.0	32.9

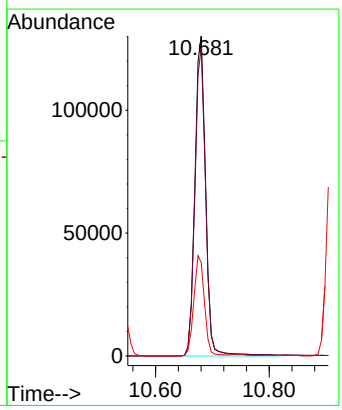


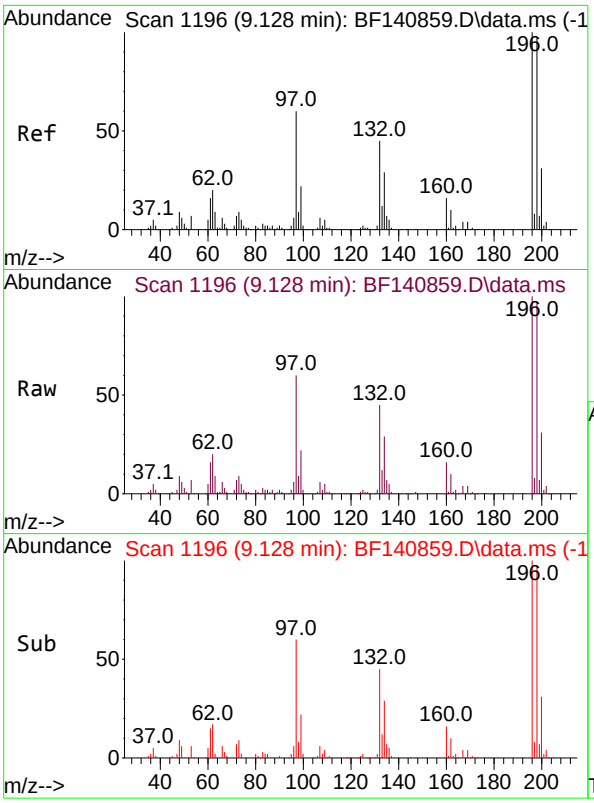


#42
2,4,6-Tribromophenol
Concen: 81.197 ng
RT: 10.681 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:330 Resp: 172188

Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.2	114.4
141	31.1	24.9	37.3



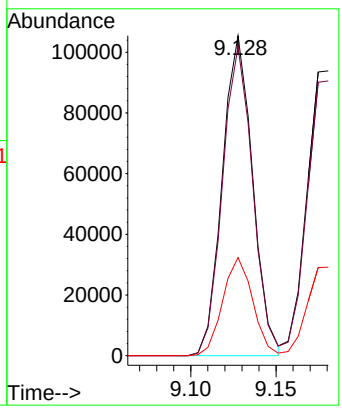


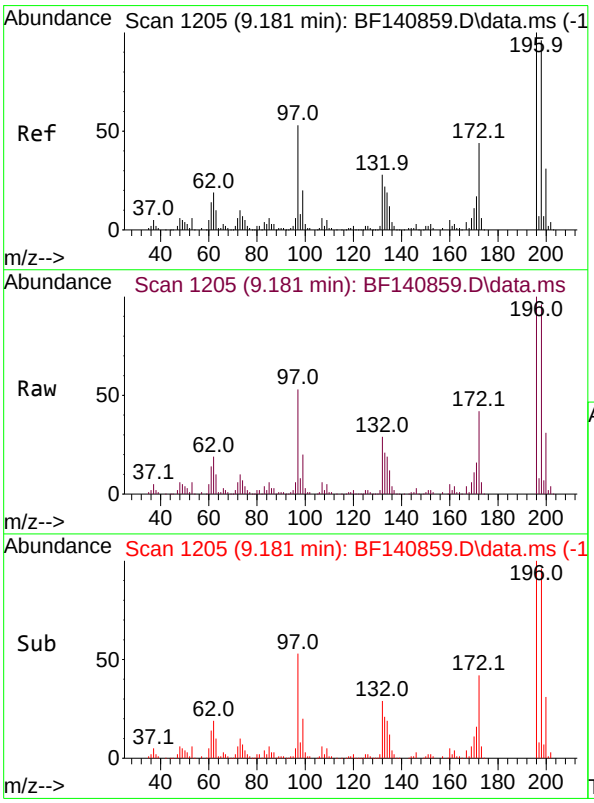
#43
2,4,6-Trichlorophenol
Concen: 38.631 ng
RT: 9.128 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 130363

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.4	116.0
200	30.6	24.5	36.7

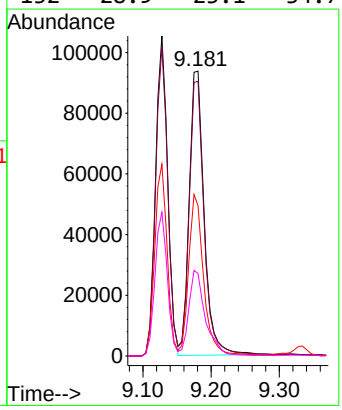


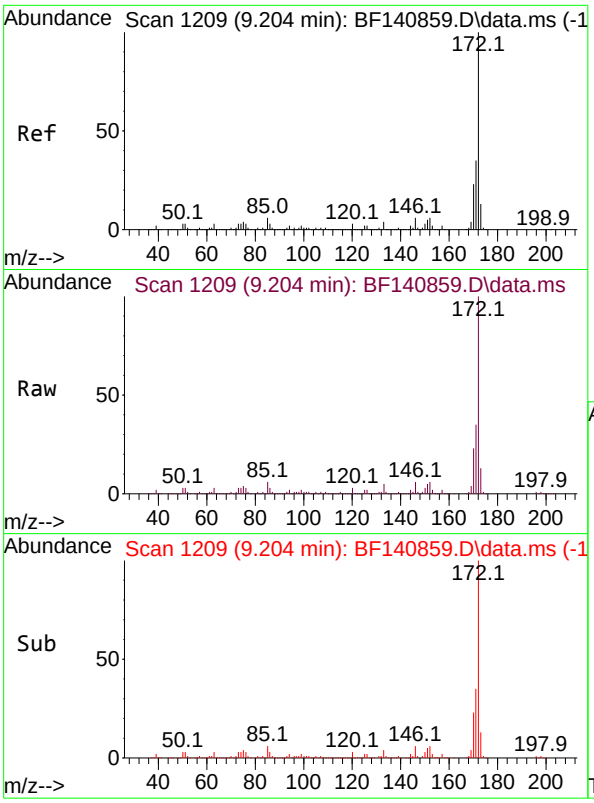


#44
2,4,5-Trichlorophenol
Concen: 38.395 ng
RT: 9.181 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:196 Resp: 142411

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.2	115.8
97	52.8	42.2	63.4
132	28.9	23.1	34.7



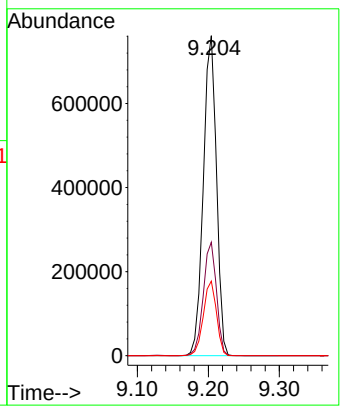


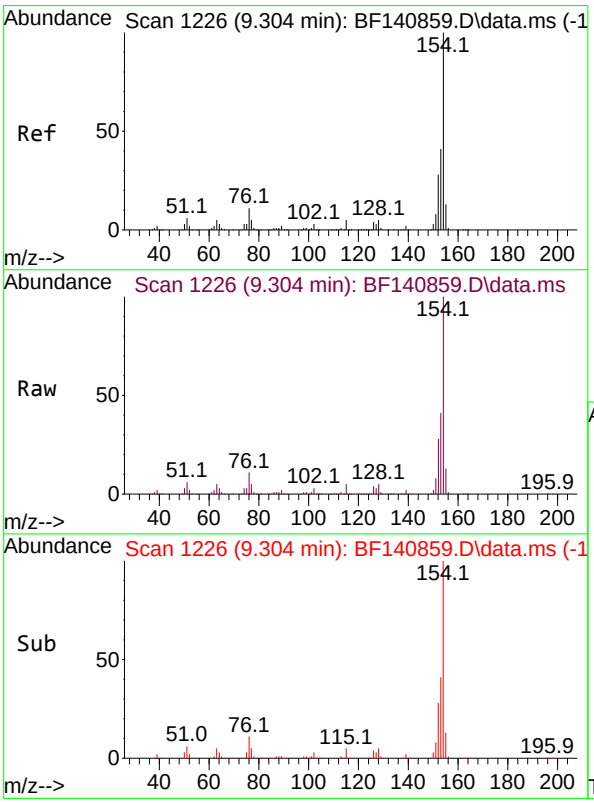
#45
2-Fluorobiphenyl
Concen: 75.290 ng
RT: 9.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 981889

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.4	42.6
170	23.3	18.6	28.0

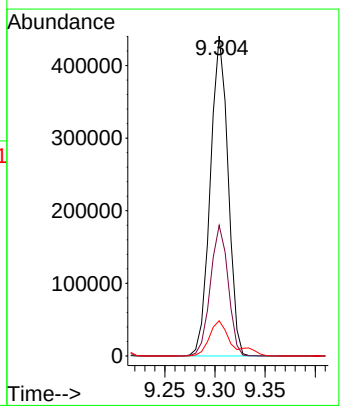


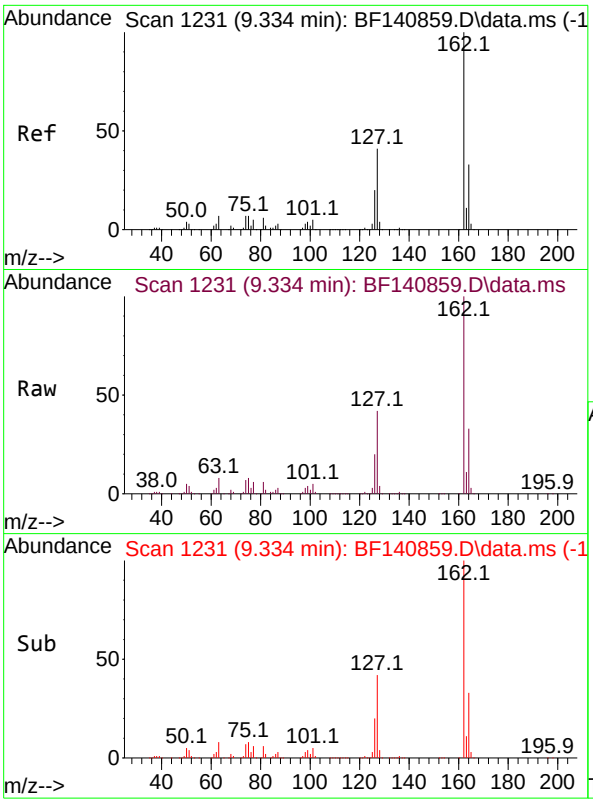


#46
1,1'-Biphenyl
Concen: 38.044 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:154 Resp: 542419

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	11.0	0.0	31.0



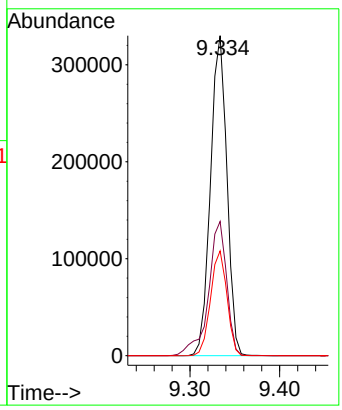


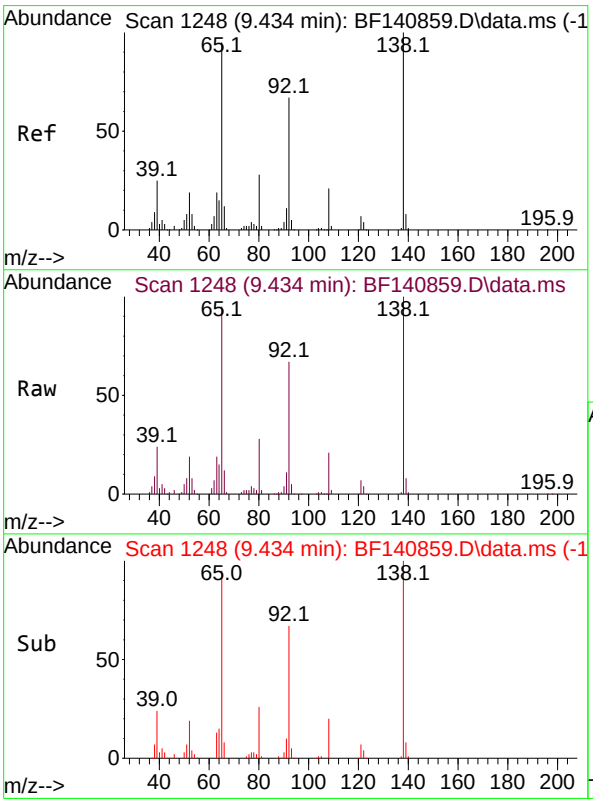
#47
2-Chloronaphthalene
Concen: 38.447 ng
RT: 9.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 419357

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.5	50.3
164	32.7	26.2	39.2

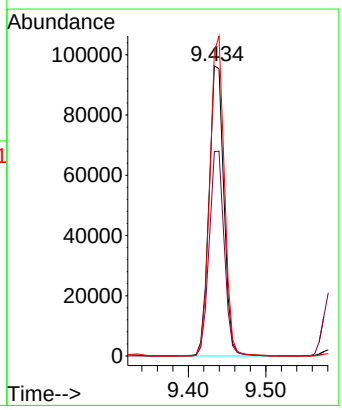


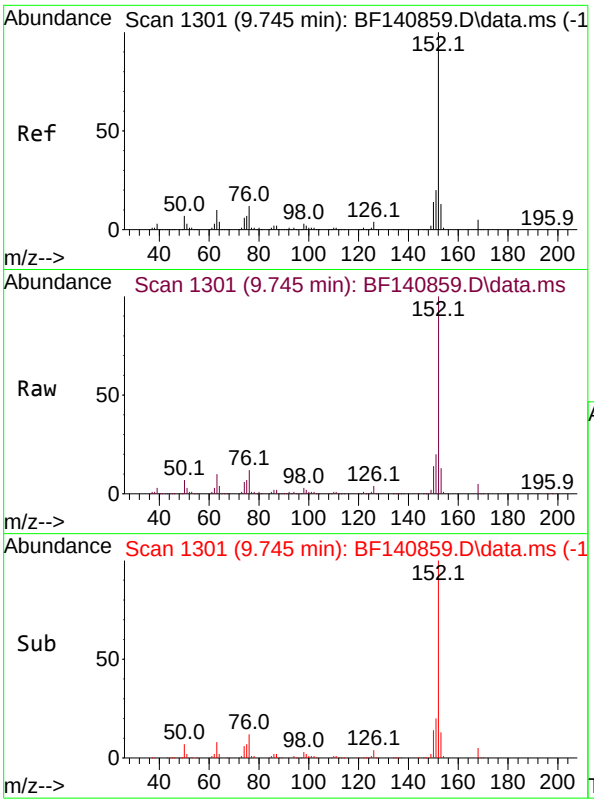


#48
2-Nitroaniline
Concen: 38.984 ng
RT: 9.434 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion: 65 Resp: 128421

Ion	Ratio	Lower	Upper
65	100		
92	70.4	56.3	84.5
138	104.7	83.8	125.6



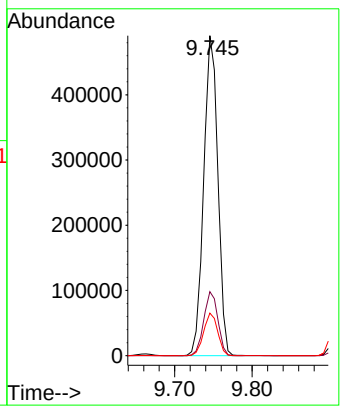


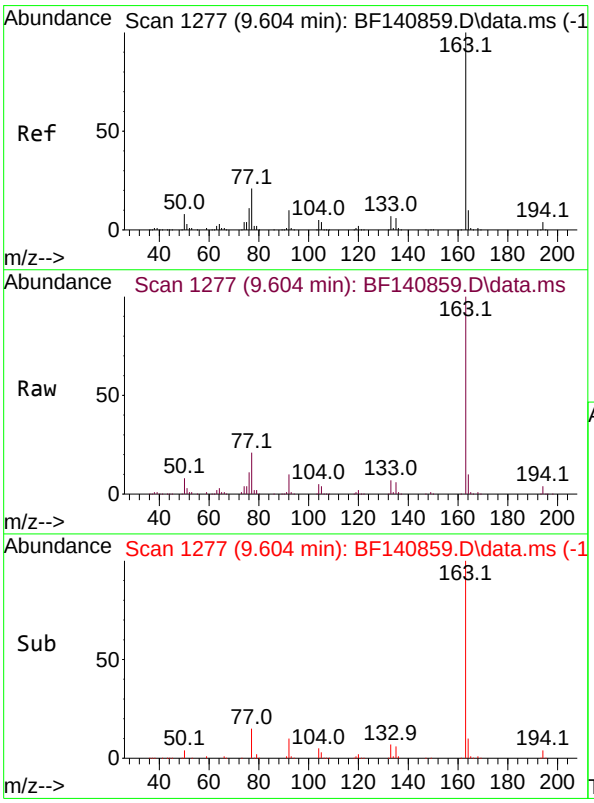
#49
Acenaphthylene
Concen: 38.790 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 621763

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.3	10.6	16.0

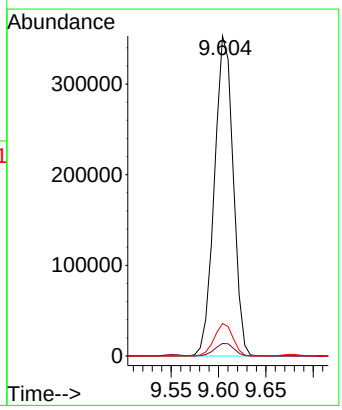


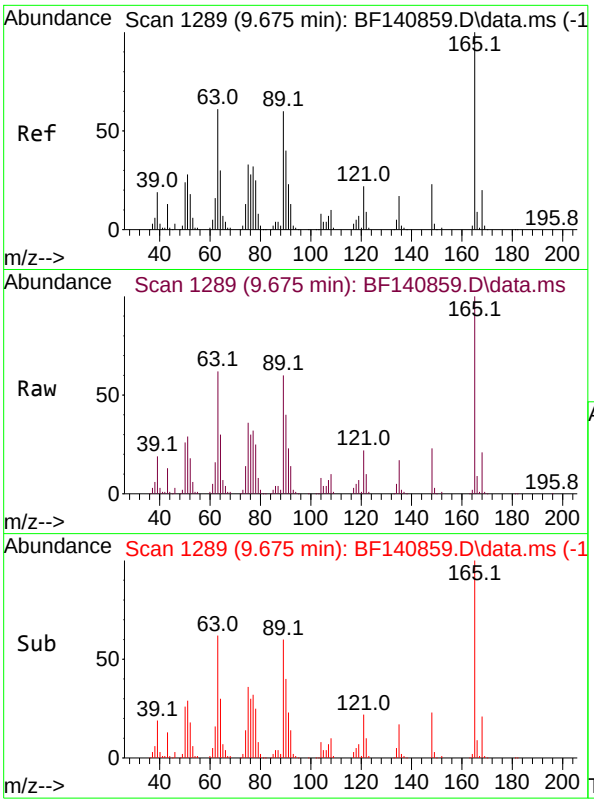


#50
Dimethylphthalate
Concen: 38.566 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:163 Resp: 487517

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.1	8.1	12.1



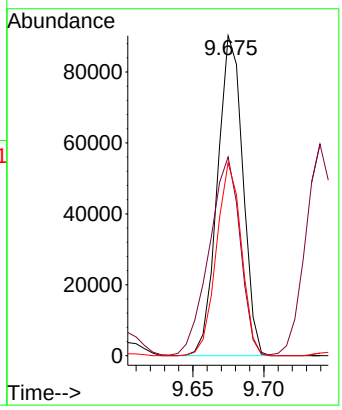


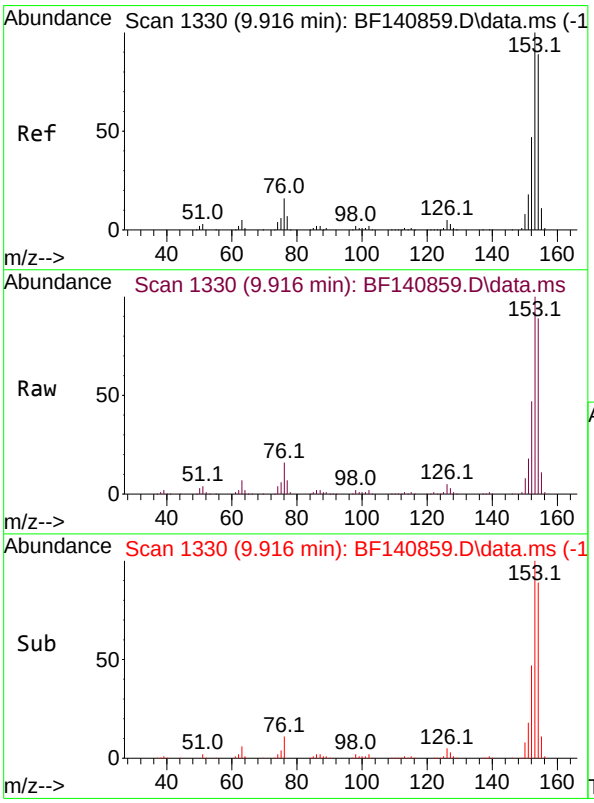
#51
2,6-Dinitrotoluene
Concen: 38.752 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 111990

Ion	Ratio	Lower	Upper
165	100		
63	62.1	49.7	74.5
89	60.3	48.2	72.4

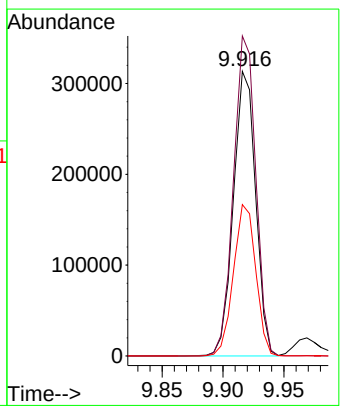


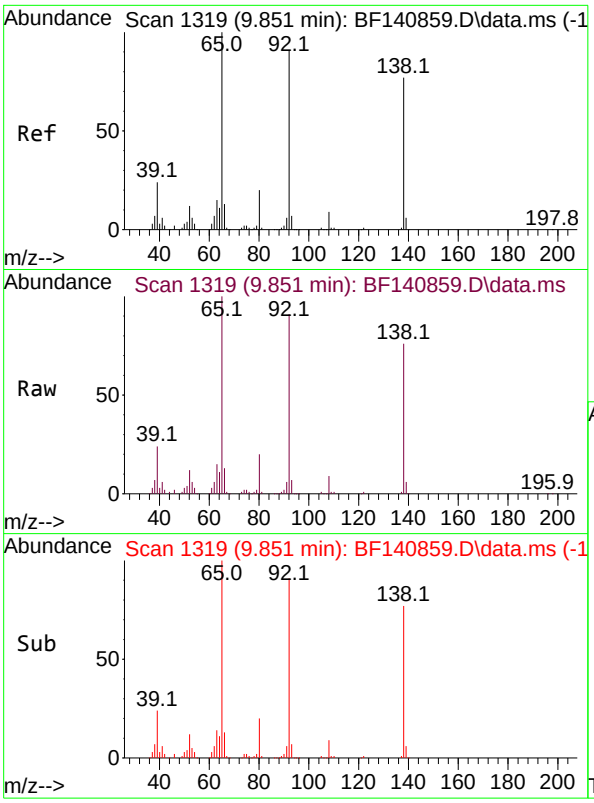


#52
Acenaphthene
Concen: 38.965 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:154 Resp: 398965

Ion	Ratio	Lower	Upper
154	100		
153	112.4	89.9	134.9
152	53.2	42.6	63.8



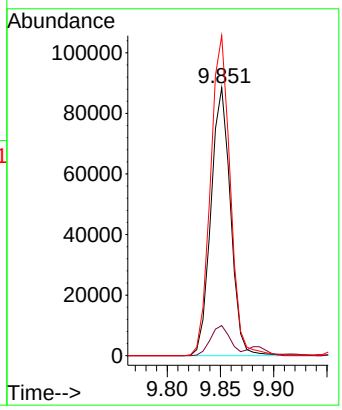


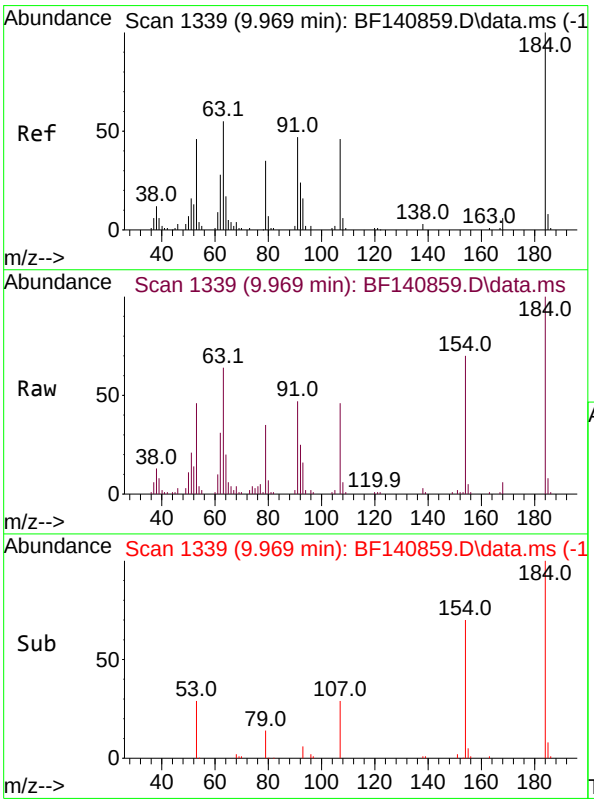
#53
3-Nitroaniline
Concen: 39.481 ng
RT: 9.851 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 113227

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	119.4	95.5	143.3

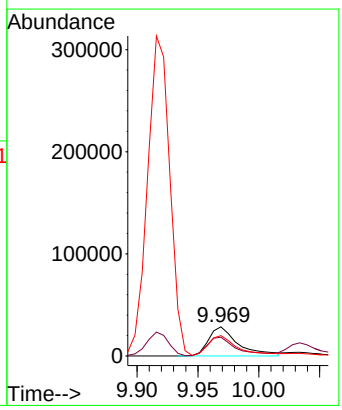


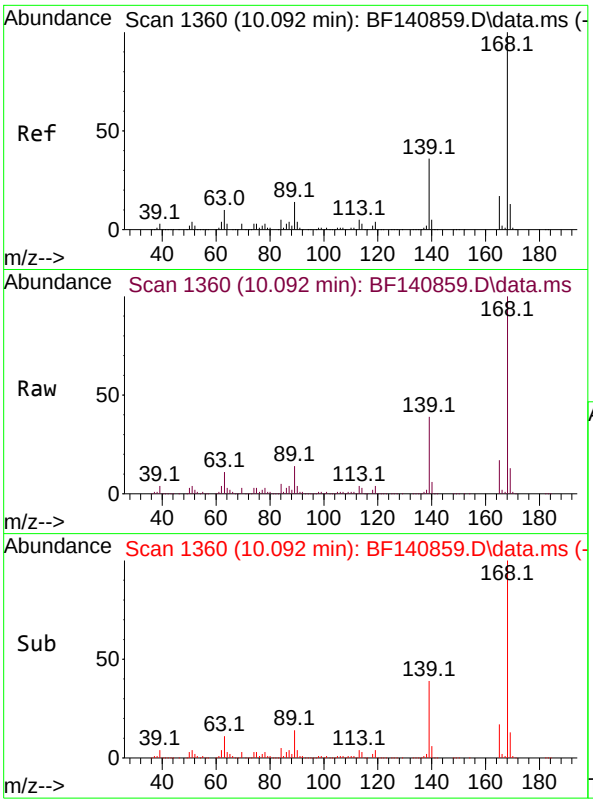


#54
2,4-Dinitrophenol
Concen: 37.788 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:184 Resp: 47982

Ion	Ratio	Lower	Upper
184	100		
63	64.5	51.6	77.4
154	70.1	56.1	84.1



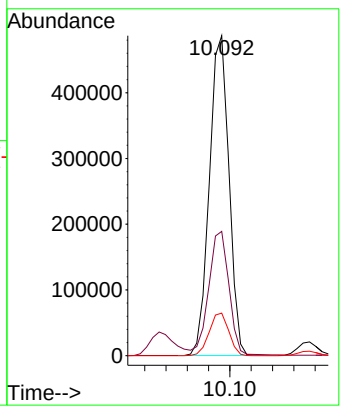


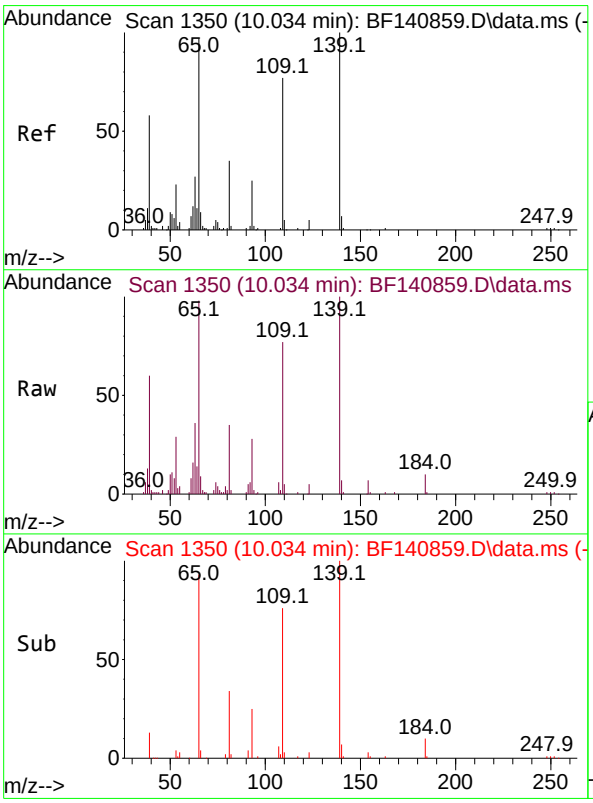
#55
Dibenzofuran
Concen: 39.066 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 619833

Ion	Ratio	Lower	Upper
168	100		
139	38.9	31.1	46.7
169	13.3	10.6	16.0

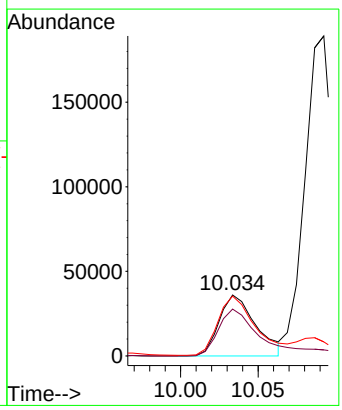


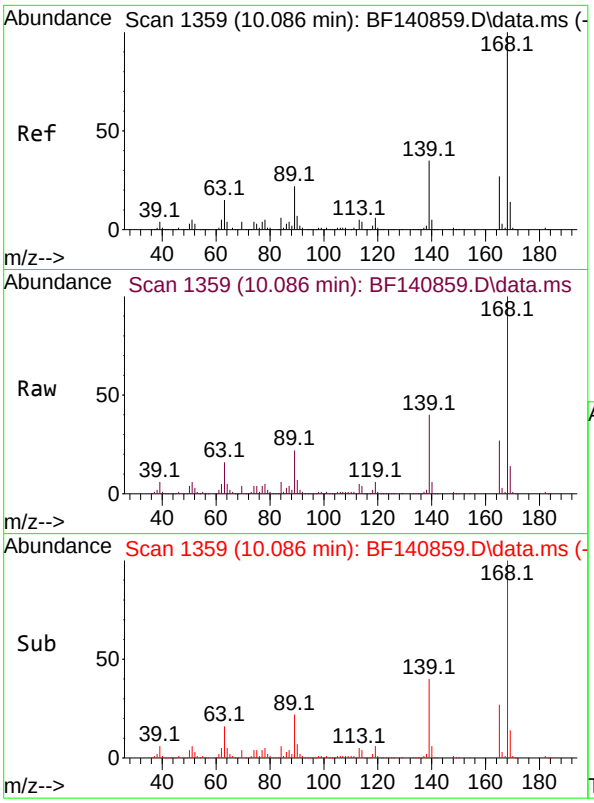


#56
4-Nitrophenol
Concen: 40.590 ng
RT: 10.034 min Scan# 1350
Delta R.T. -0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:139 Resp: 59043

Ion	Ratio	Lower	Upper
139	100		
109	76.7	56.7	96.7
65	98.1	78.1	118.1



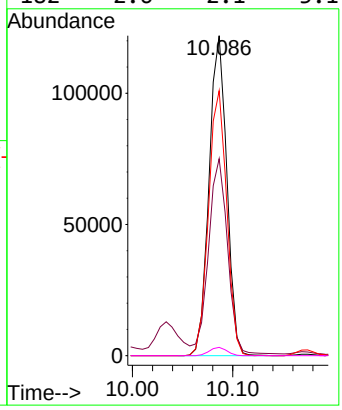


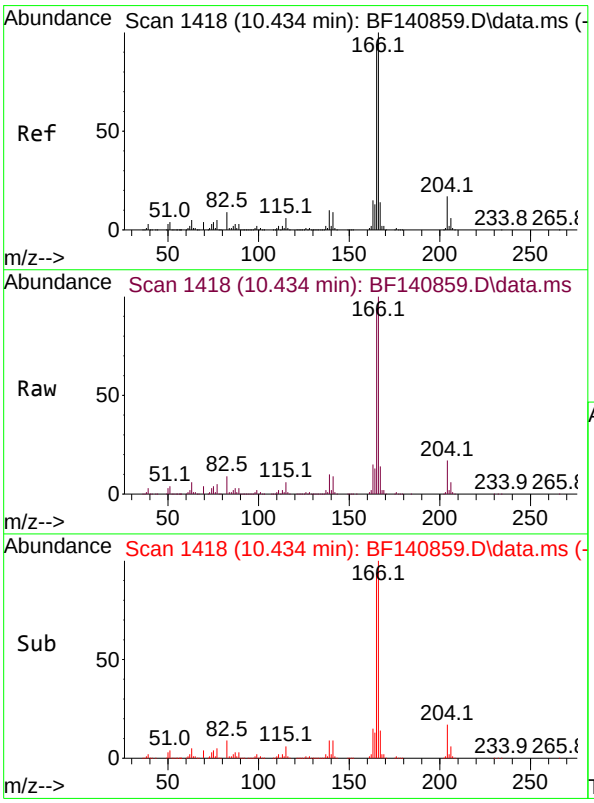
#57
2,4-Dinitrotoluene
Concen: 39.502 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 150199

Ion	Ratio	Lower	Upper
165	100		
63	61.6	49.3	73.9
89	82.8	66.2	99.4
182	2.6	2.1	3.1

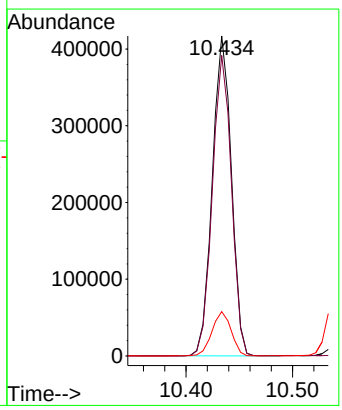


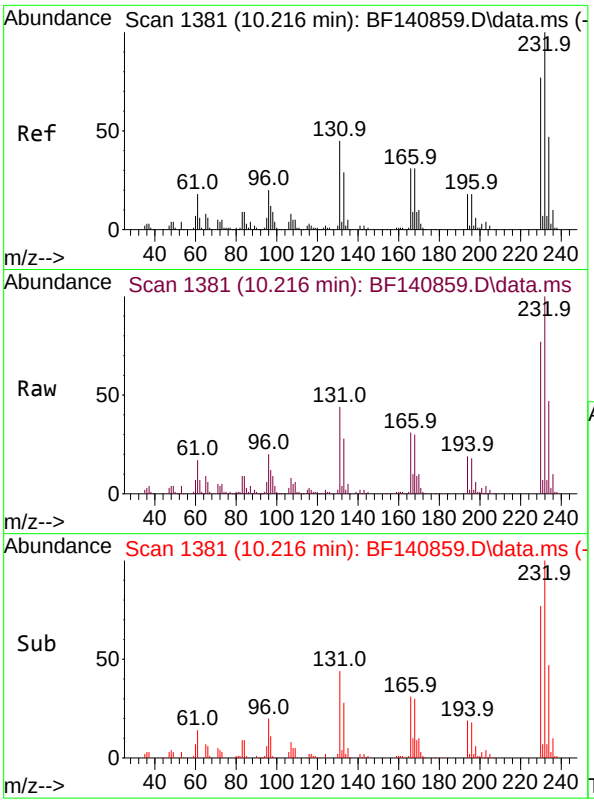


#58
Fluorene
Concen: 39.568 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:166 Resp: 517920

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.1	112.7
167	13.9	11.1	16.7



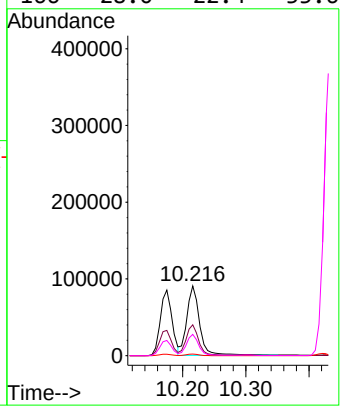


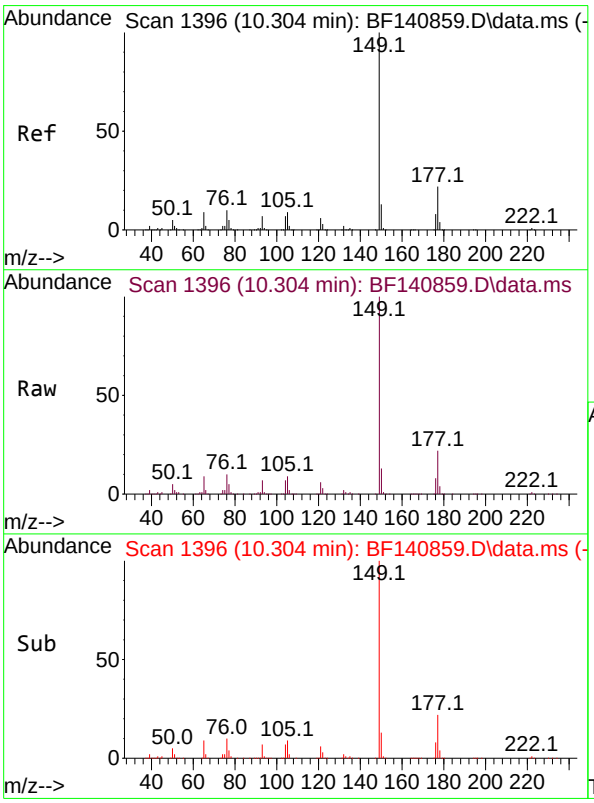
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.028 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 127023

Ion	Ratio	Lower	Upper
232	100		
131	43.9	35.1	52.7
130	2.3	1.8	2.8
166	28.0	22.4	33.6

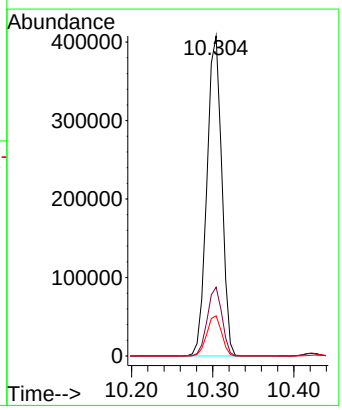


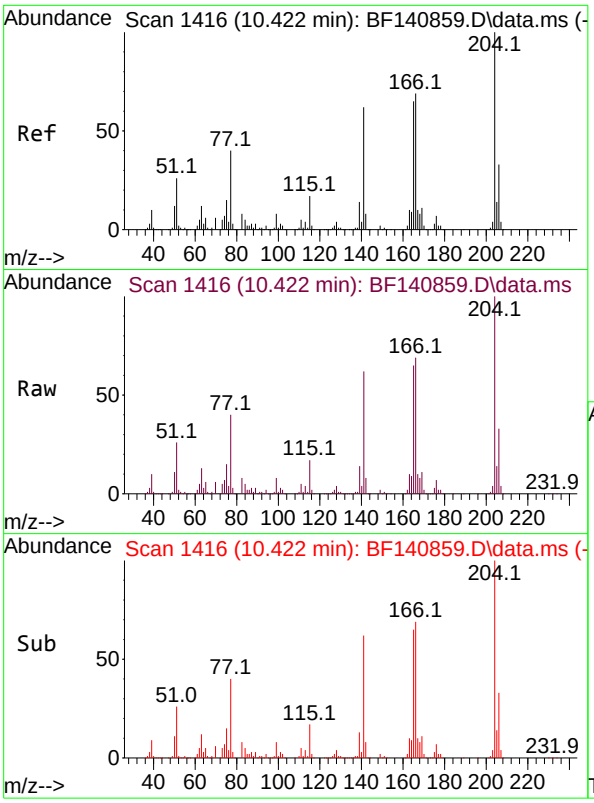


#60
Diethylphthalate
Concen: 39.375 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:149 Resp: 516146

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.2	25.8
150	12.6	10.1	15.1



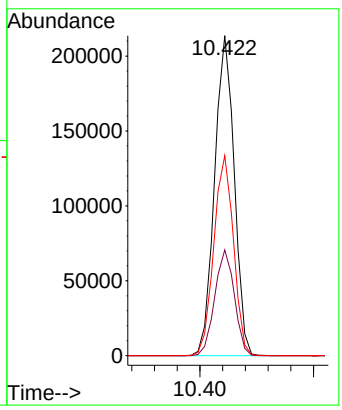


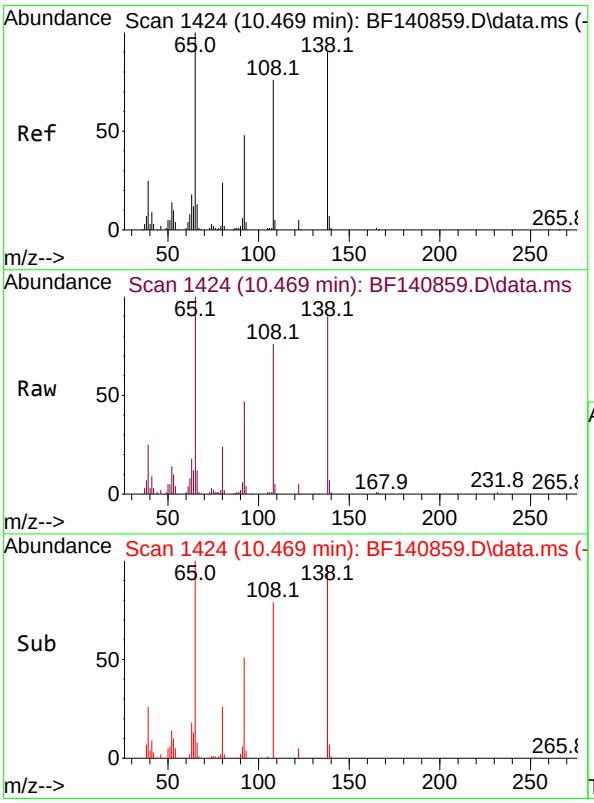
#61
4-Chlorophenyl-phenylether
Concen: 39.062 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 256836

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.5	39.7
141	62.5	50.0	75.0

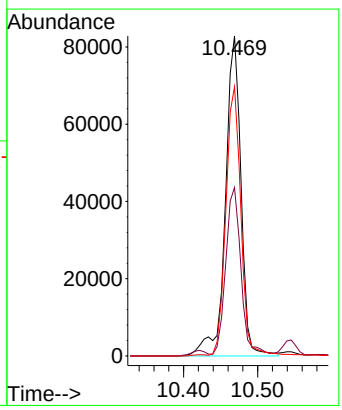


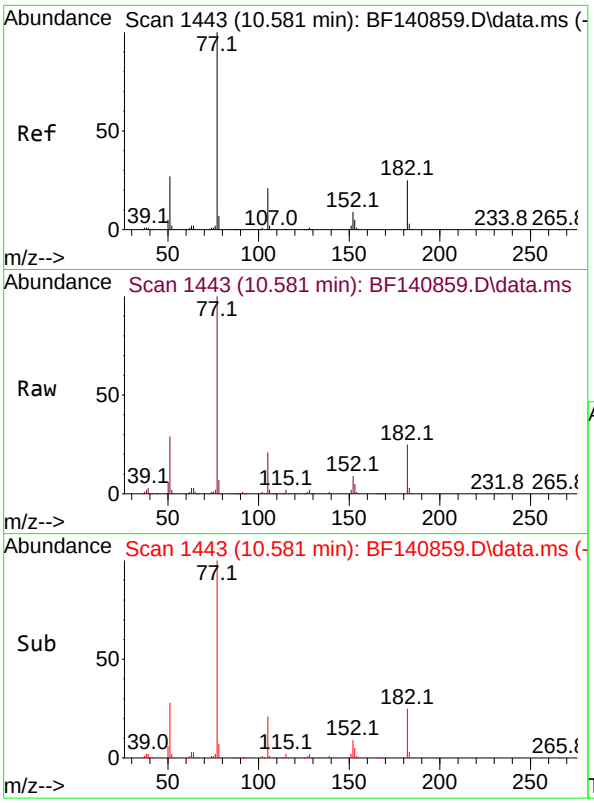


#62
4-Nitroaniline
Concen: 40.423 ng
RT: 10.469 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:138 Resp: 121143

Ion	Ratio	Lower	Upper
138	100		
92	52.6	32.6	72.6
108	84.1	64.1	104.1



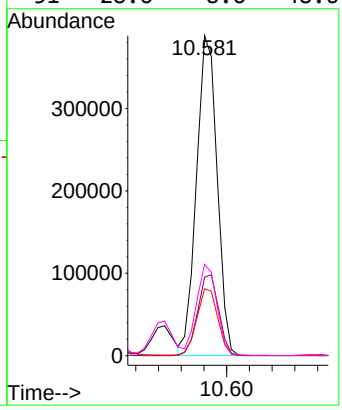


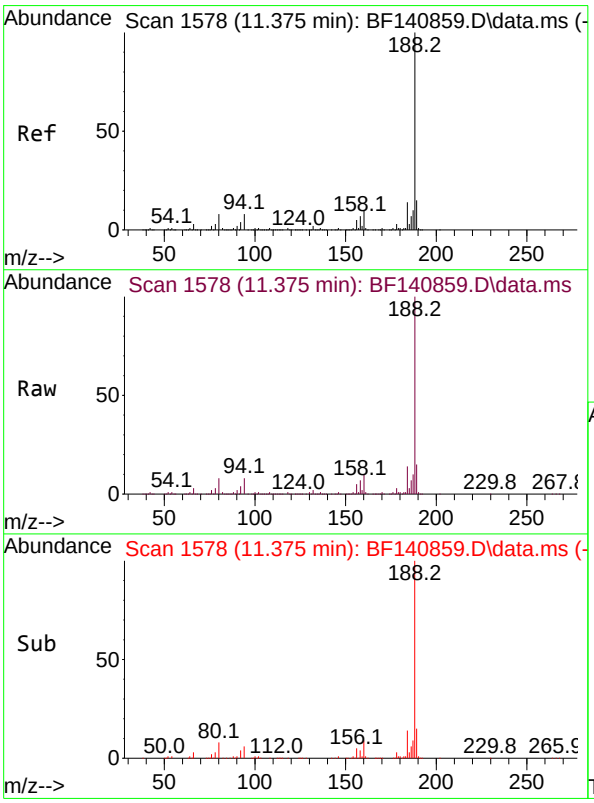
#63
Azobenzene
Concen: 39.821 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 490731

Ion	Ratio	Lower	Upper
77	100		
182	24.5	4.5	44.5
105	20.9	0.9	40.9
51	28.6	8.6	48.6

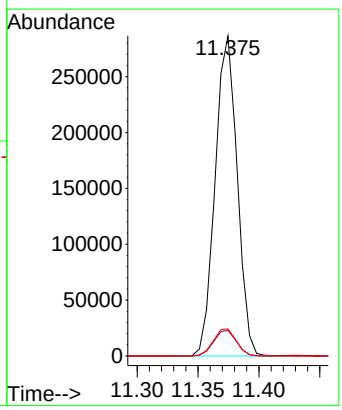


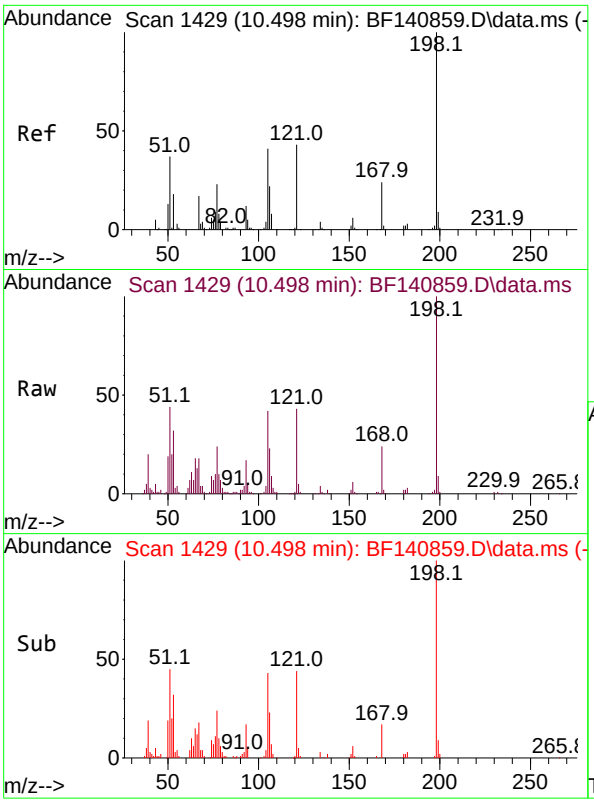


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:188 Resp: 361848

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.4	9.6
80	8.5	6.8	10.2



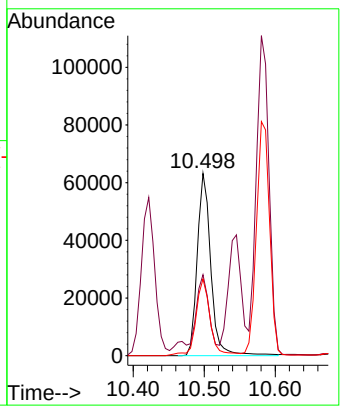


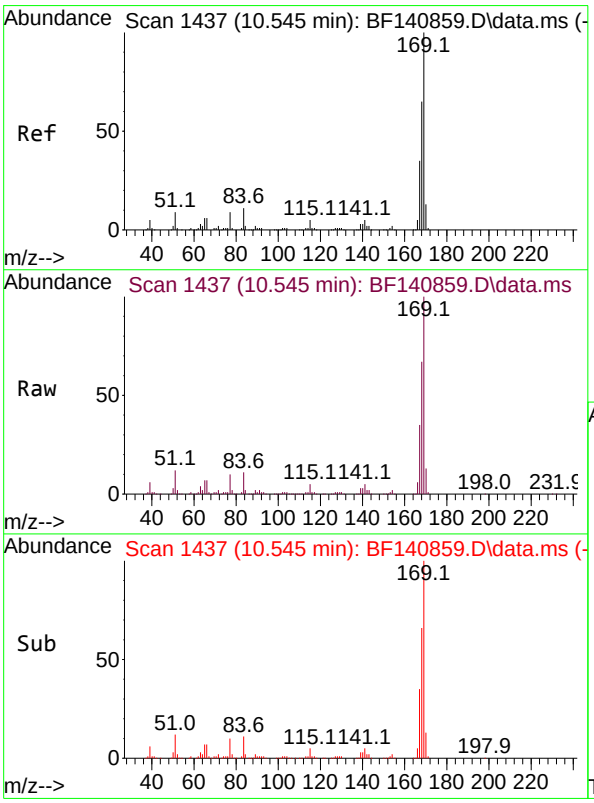
#65
4,6-Dinitro-2-methylphenol
Concen: 41.148 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 84370

Ion	Ratio	Lower	Upper
198	100		
51	44.4	24.4	64.4
105	42.1	22.1	62.1

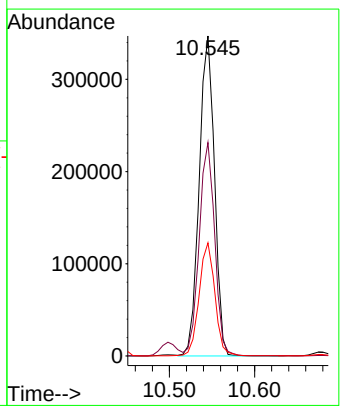


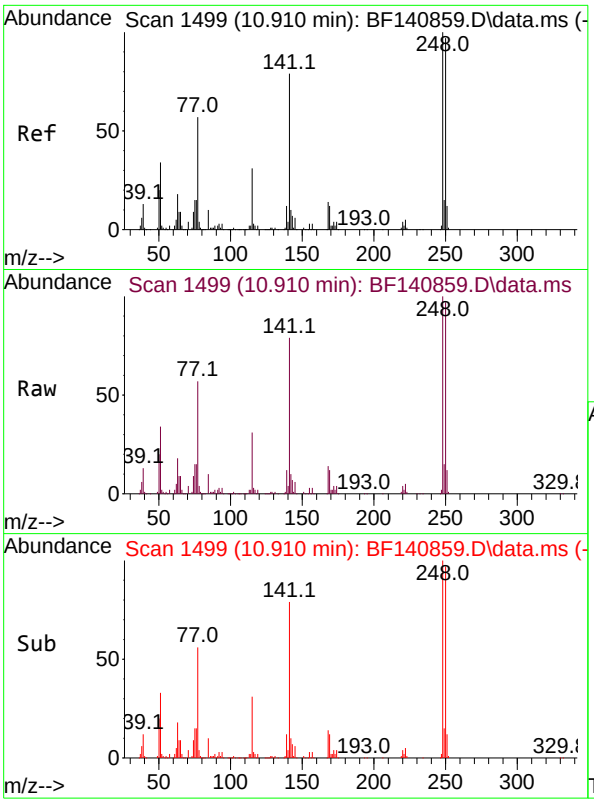


#66
n-Nitrosodiphenylamine
Concen: 38.947 ng
RT: 10.545 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:169 Resp: 433296

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.4	80.0
167	35.4	28.3	42.5



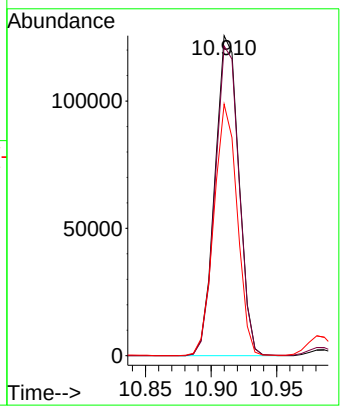


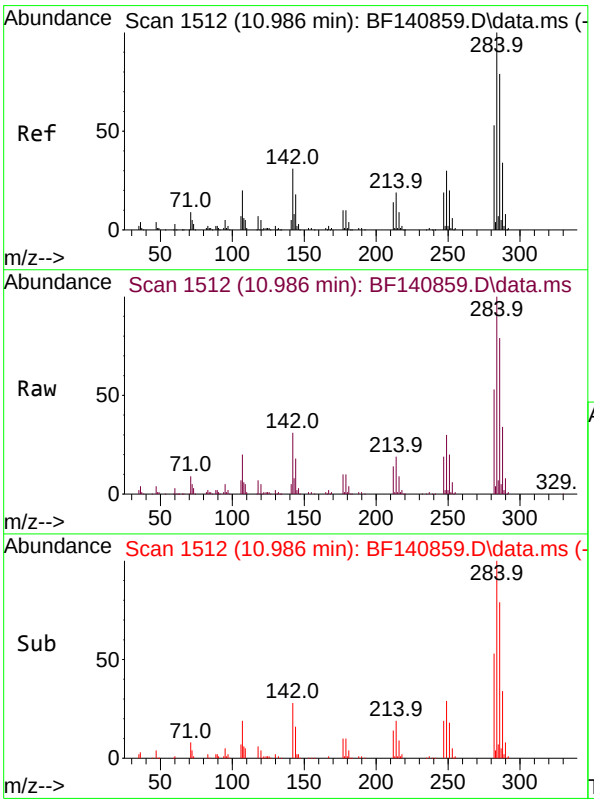
#67
4-Bromophenyl-phenylether
Concen: 39.307 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 159117

Ion	Ratio	Lower	Upper
248	100		
250	96.8	77.4	116.2
141	78.6	62.9	94.3

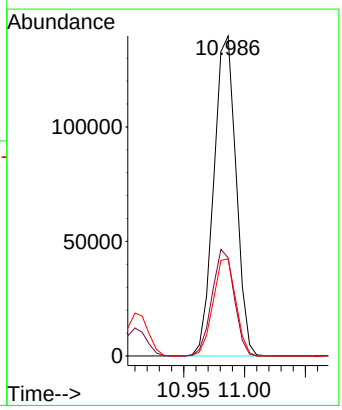


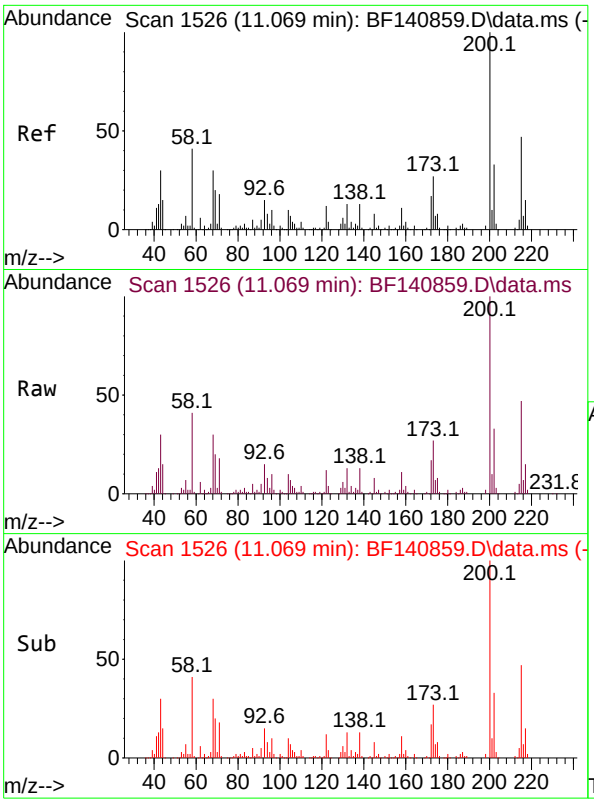


#68
Hexachlorobenzene
Concen: 38.742 ng
RT: 10.986 min Scan# 1512
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:284 Resp: 177811

Ion	Ratio	Lower	Upper
284	100		
142	30.7	24.6	36.8
249	30.4	24.3	36.5



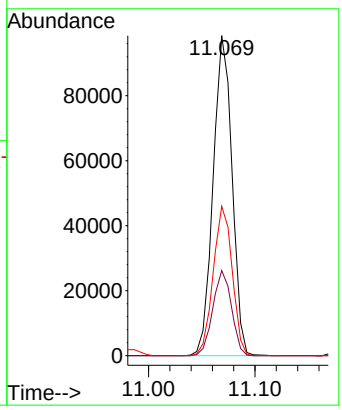


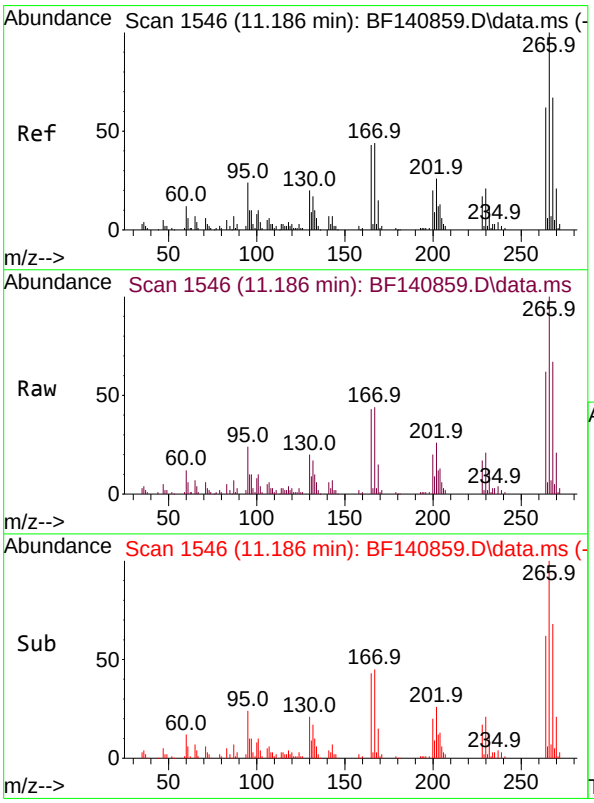
#69
Atrazine
Concen: 39.101 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 121493

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.6	46.6
215	46.7	26.7	66.7

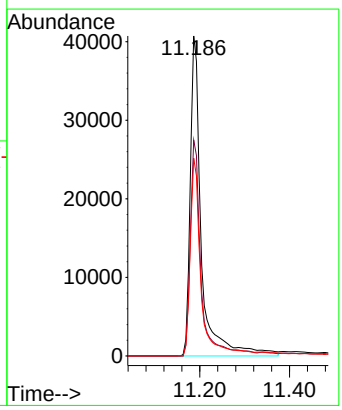


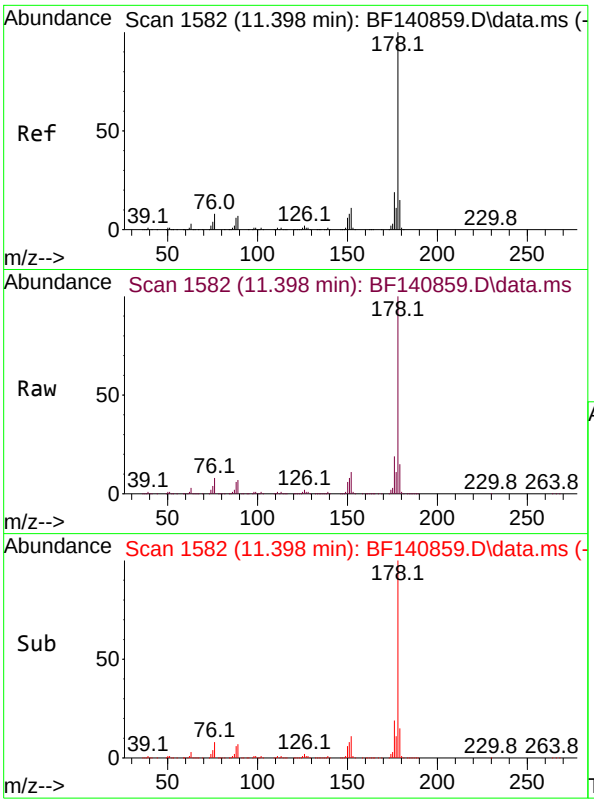


#70
Pentachlorophenol
Concen: 42.072 ng
RT: 11.186 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:266 Resp: 70638

Ion	Ratio	Lower	Upper
266	100		
268	67.5	54.0	81.0
264	61.8	49.4	74.2



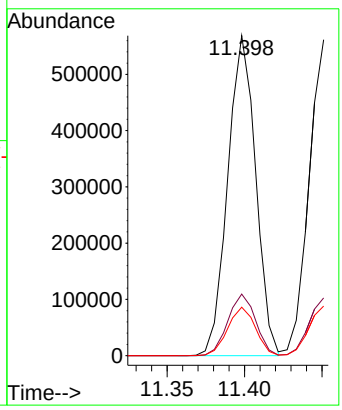


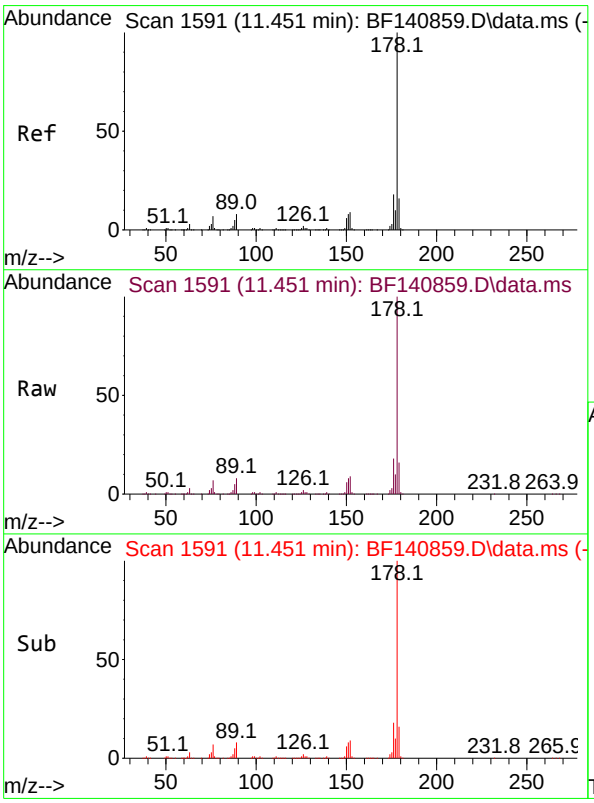
#71
Phenanthrene
Concen: 38.248 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 711714

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.1	12.1	18.1

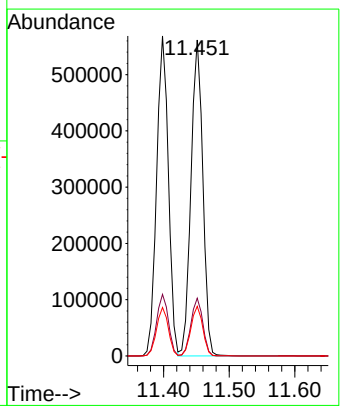


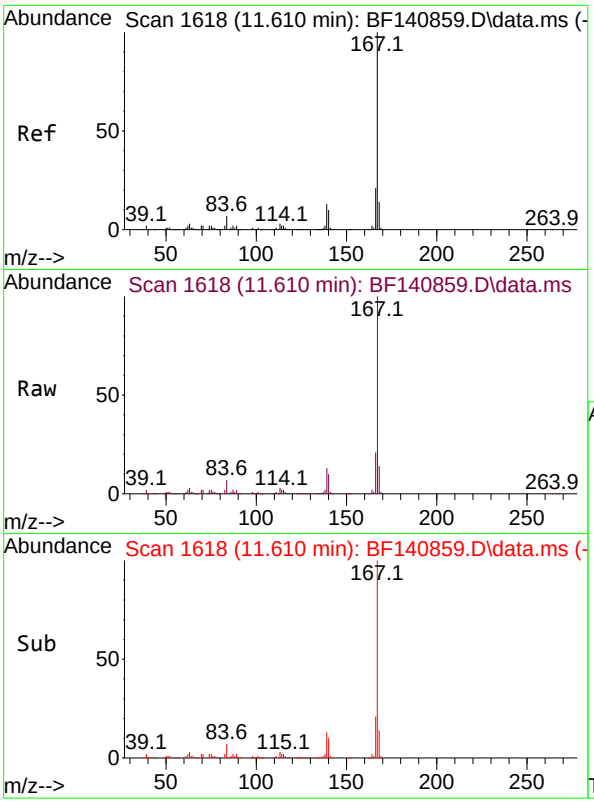


#72
Anthracene
Concen: 38.326 ng
RT: 11.451 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:178 Resp: 702321

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	15.7	12.6	18.8



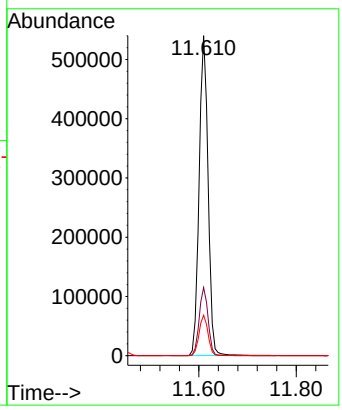


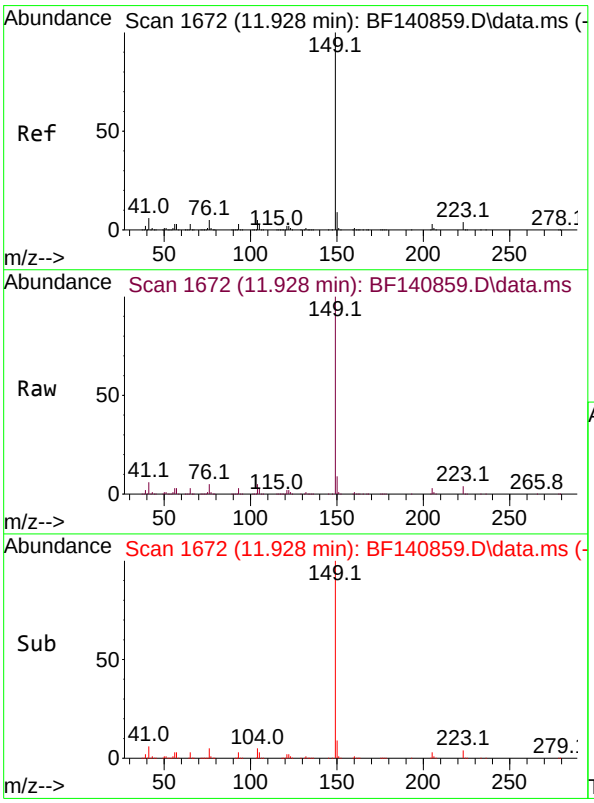
#73
Carbazole
Concen: 38.392 ng
RT: 11.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 689096

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	12.7	10.2	15.2

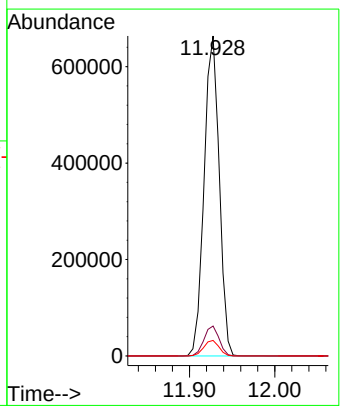


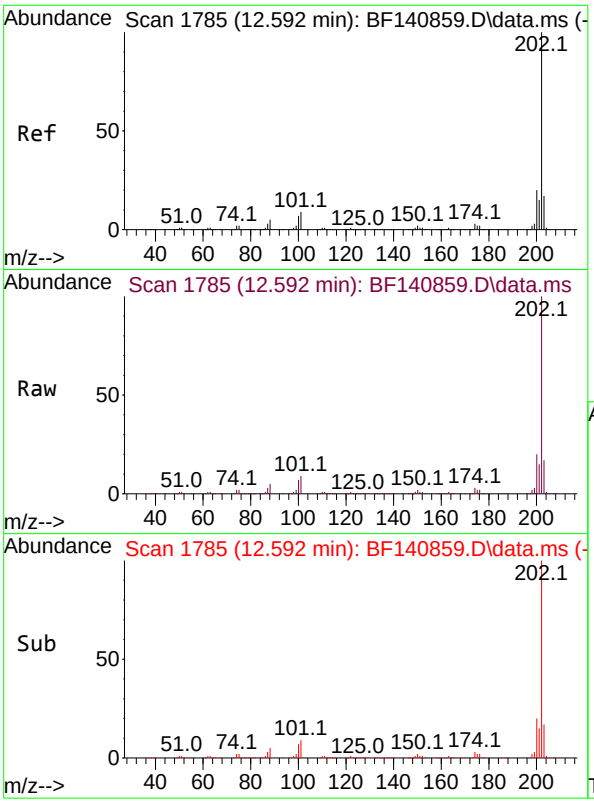


#74
Di-n-butylphthalate
Concen: 38.782 ng
RT: 11.928 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:149 Resp: 816942

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.5	11.3
104	4.8	3.8	5.8



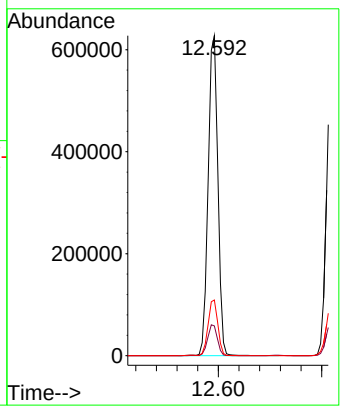


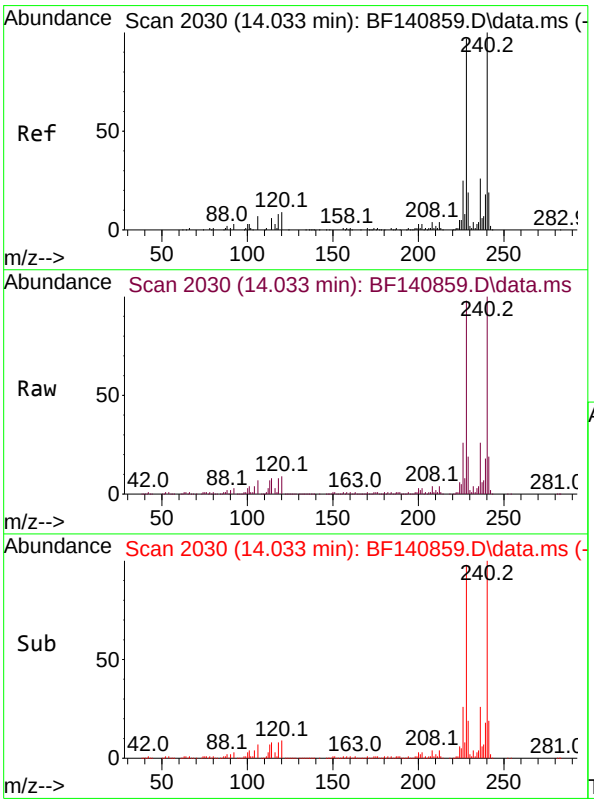
#75
Fluoranthene
Concen: 38.159 ng
RT: 12.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 817749

Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	29.3
203	17.4	0.0	37.4

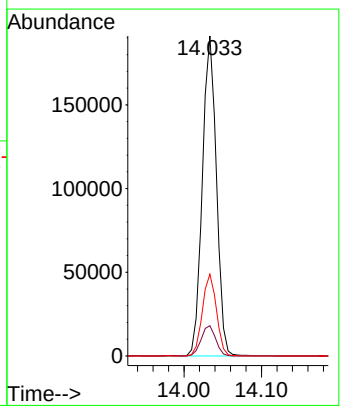


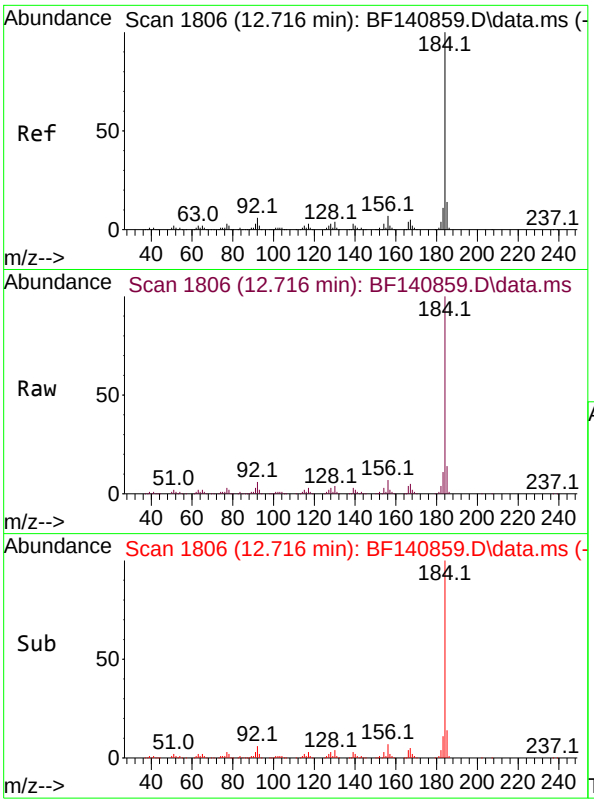


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:240 Resp: 241027

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.6	11.4
236	25.6	20.5	30.7



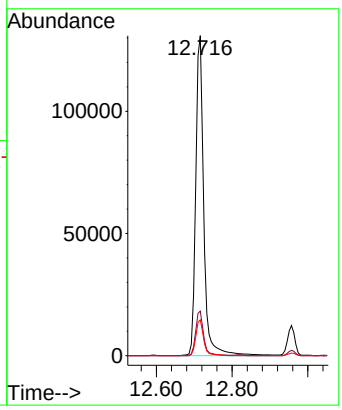


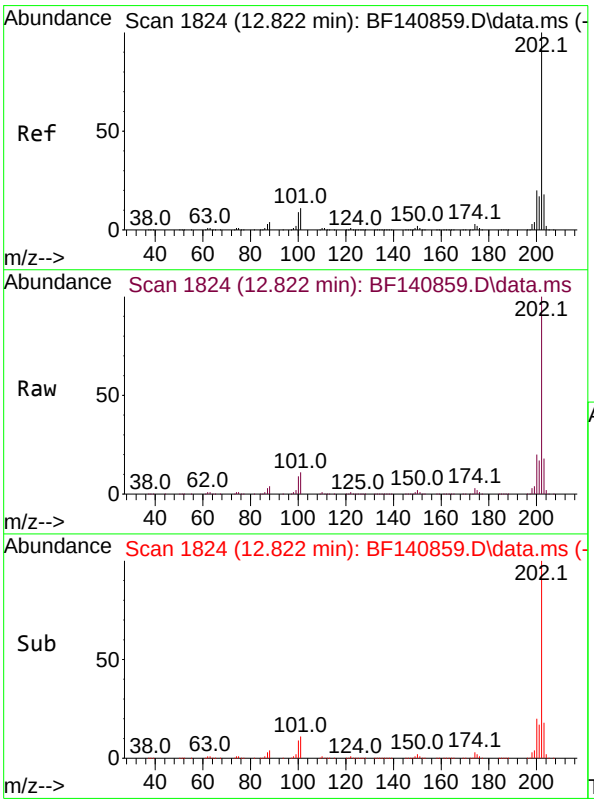
#77
Benzidine
Concen: 39.598 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 194791

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.1	16.7
183	11.2	9.0	13.4

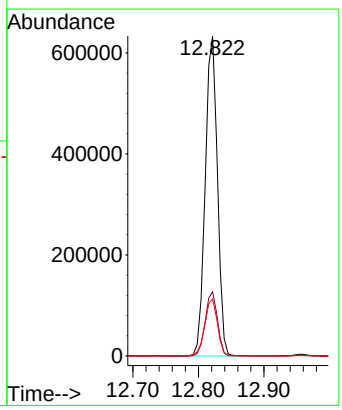


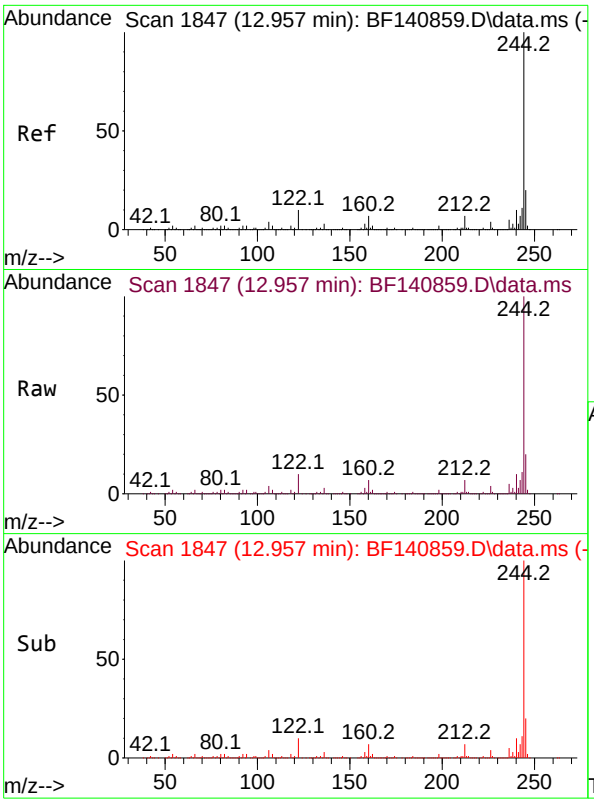


#78
Pyrene
Concen: 38.208 ng
RT: 12.822 min Scan# 1824
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:202 Resp: 818937

Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.1	24.1
203	17.8	14.2	21.4



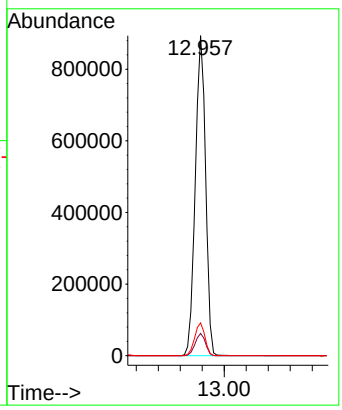


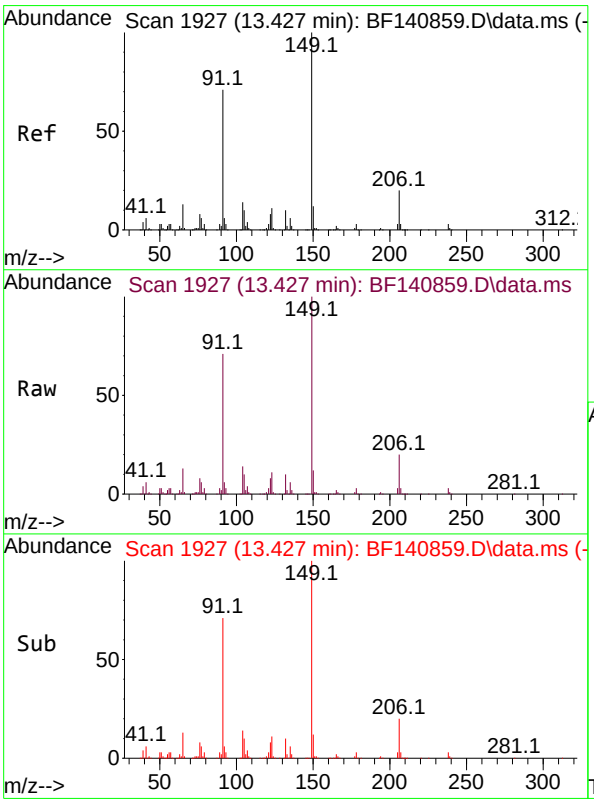
#79
Terphenyl-d14
Concen: 76.093 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1163098

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.2	8.2	12.2

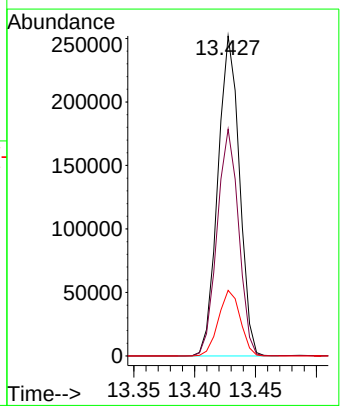


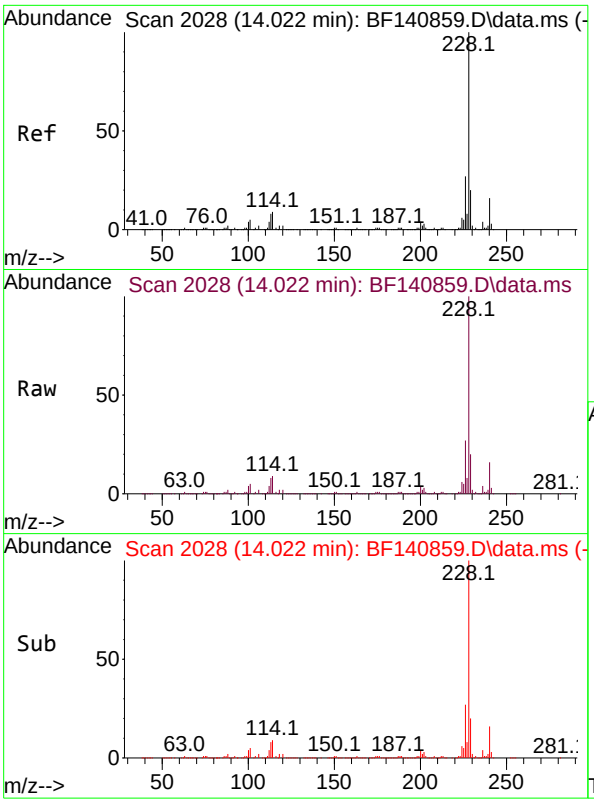


#80
Butylbenzylphthalate
Concen: 39.493 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:149 Resp: 311465

Ion	Ratio	Lower	Upper
149	100		
91	70.9	56.7	85.1
206	20.5	16.4	24.6



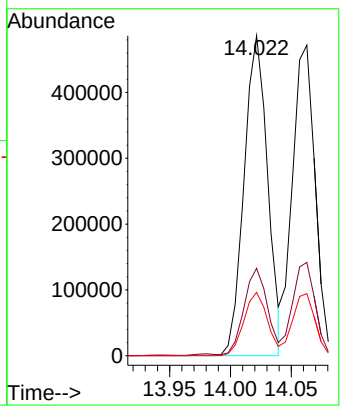


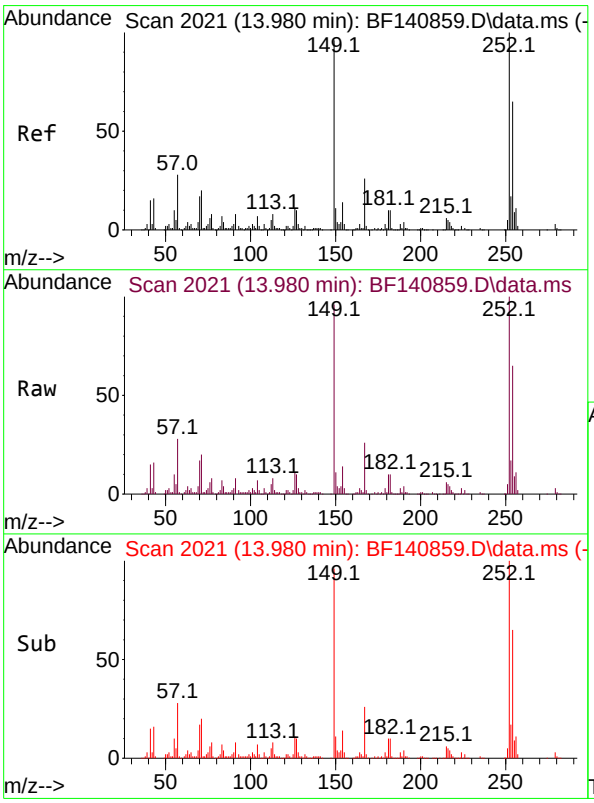
#81
Benzo(a)anthracene
Concen: 38.340 ng
RT: 14.022 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 654937

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.8	15.8	23.8

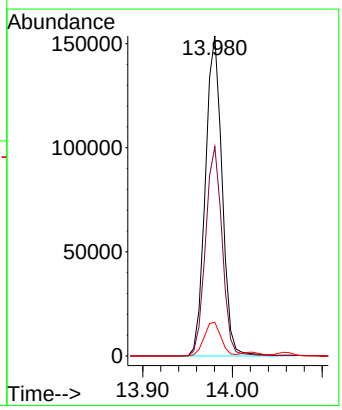


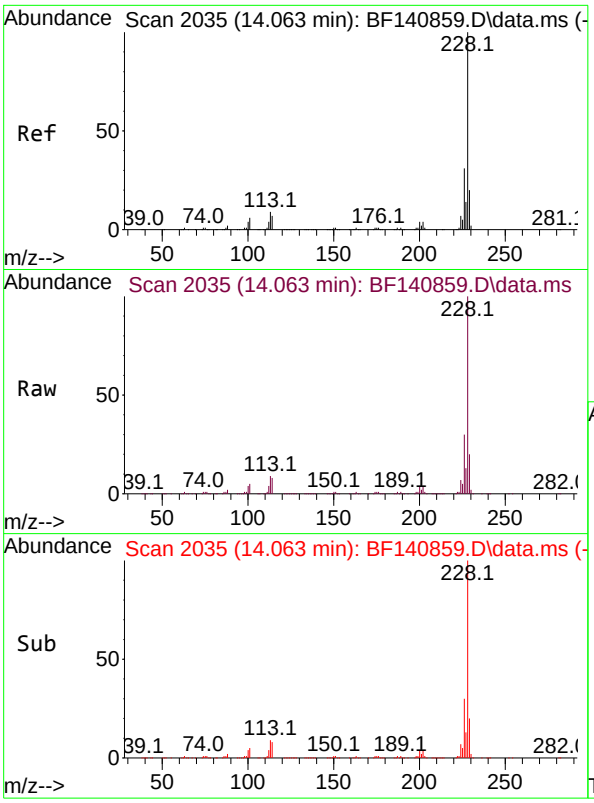


#82
3,3'-Dichlorobenzidine
Concen: 38.511 ng
RT: 13.980 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:252 Resp: 198481

Ion	Ratio	Lower	Upper
252	100		
254	65.4	52.3	78.5
126	10.5	8.4	12.6



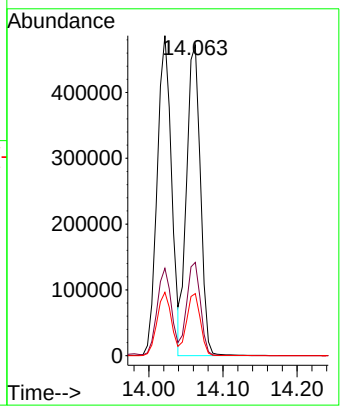


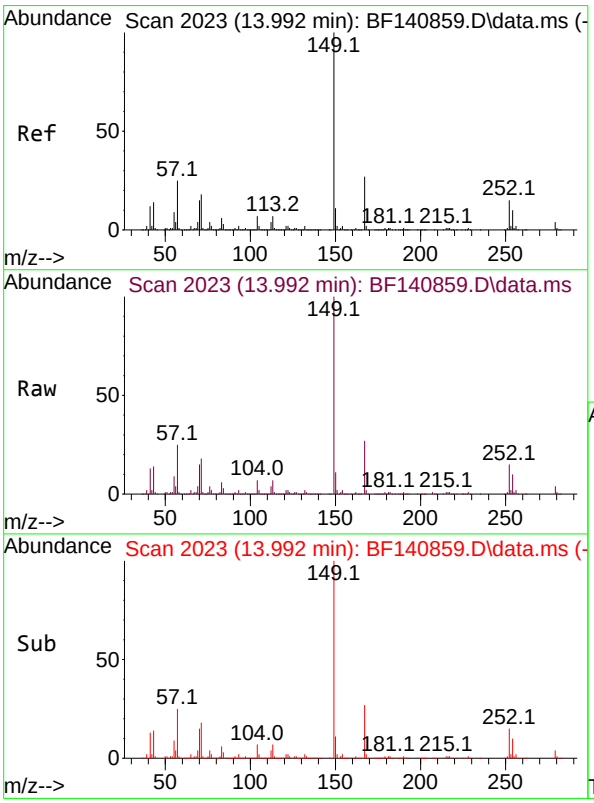
#83
Chrysene
Concen: 39.430 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 612484

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	20.0	16.0	24.0

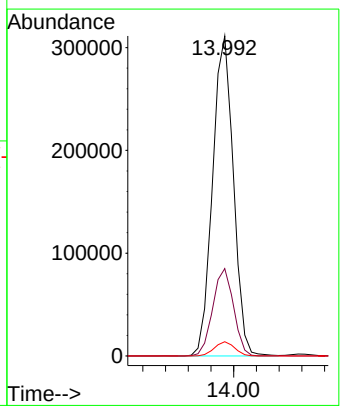


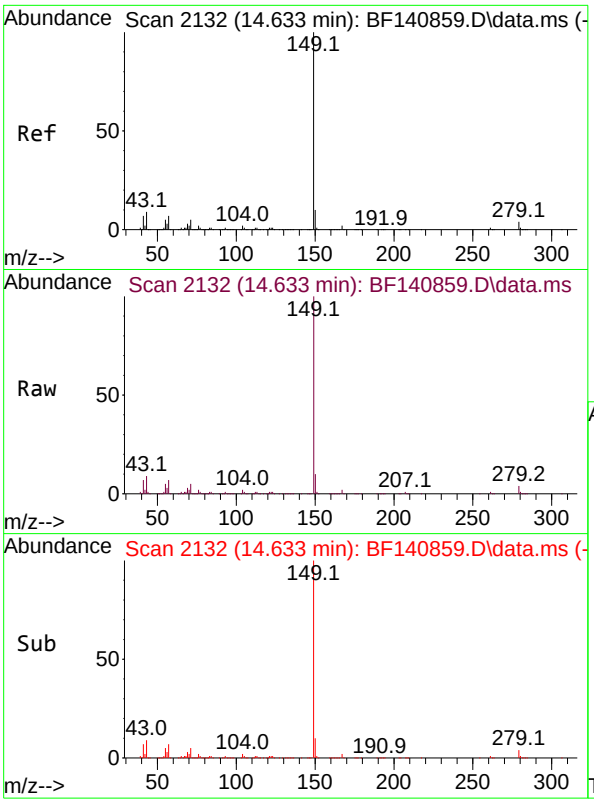


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.939 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:149 Resp: 395970

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.8
279	4.4	3.5	5.3



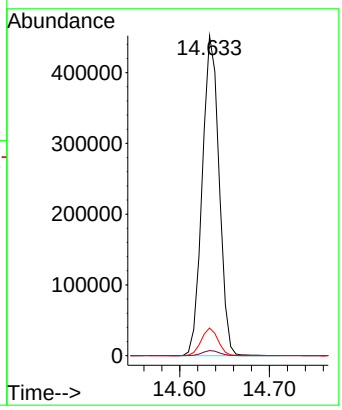


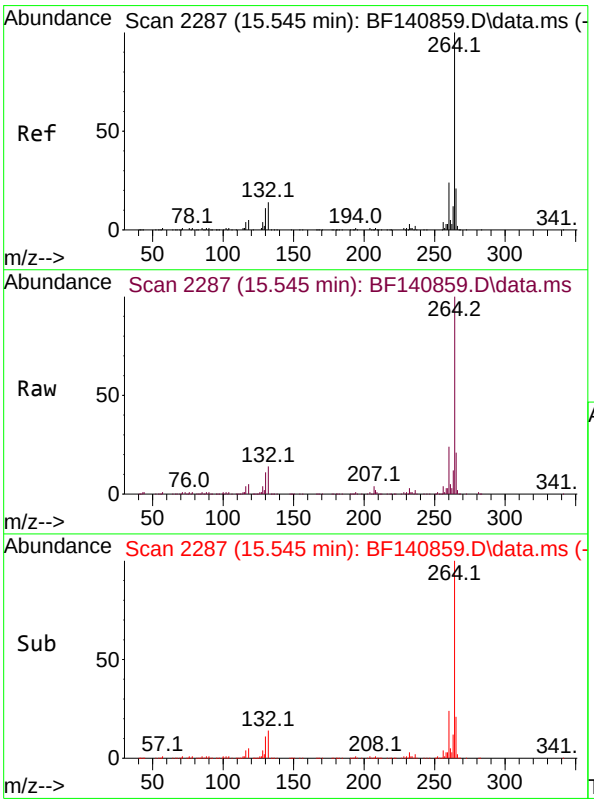
#85
Di-n-octyl phthalate
Concen: 38.326 ng
RT: 14.633 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 589634

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.8	7.0	10.6

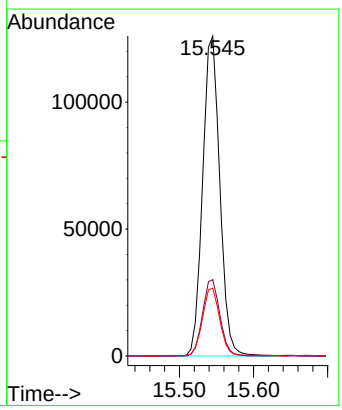


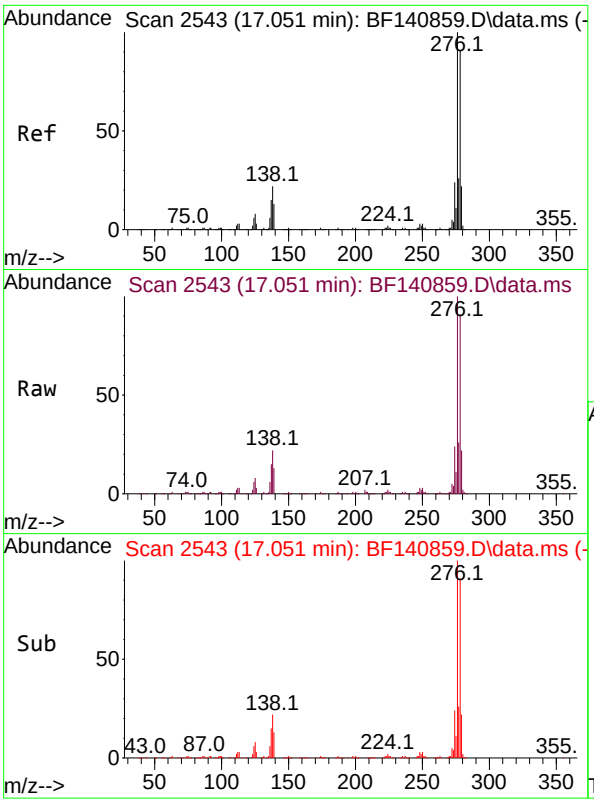


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2287
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:264 Resp: 202727

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.1	28.7
265	21.2	17.0	25.4



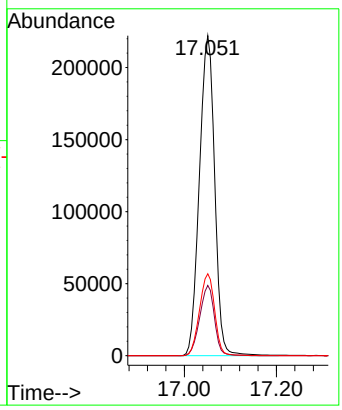


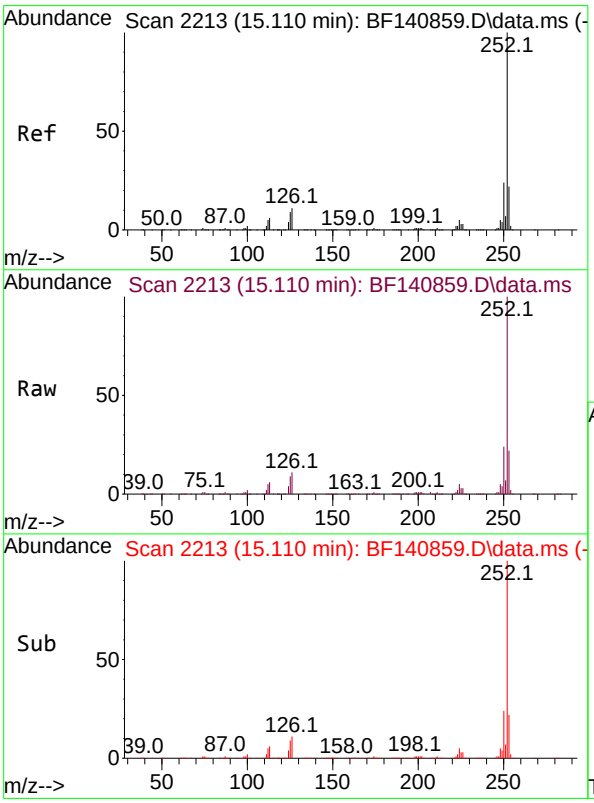
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.662 ng
RT: 17.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 514416

Ion	Ratio	Lower	Upper
276	100		
138	21.1	16.9	25.3
277	25.3	20.2	30.4

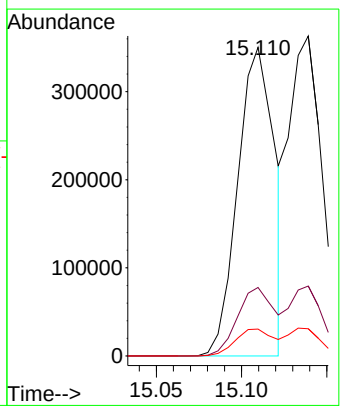


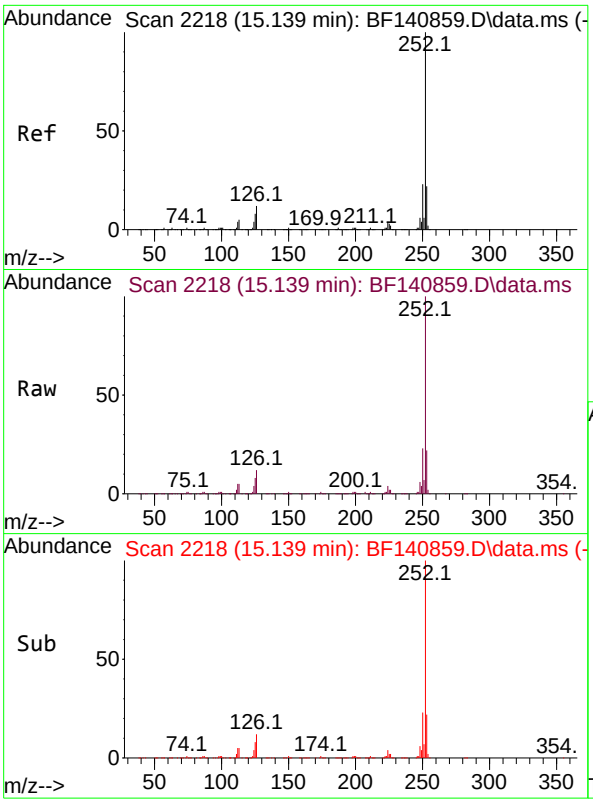


#88
Benzo(b)fluoranthene
Concen: 37.283 ng
RT: 15.110 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:252 Resp: 524660

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	8.7	7.0	10.4



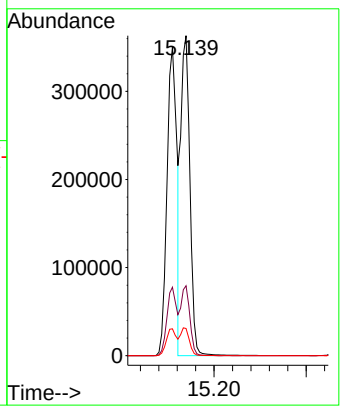


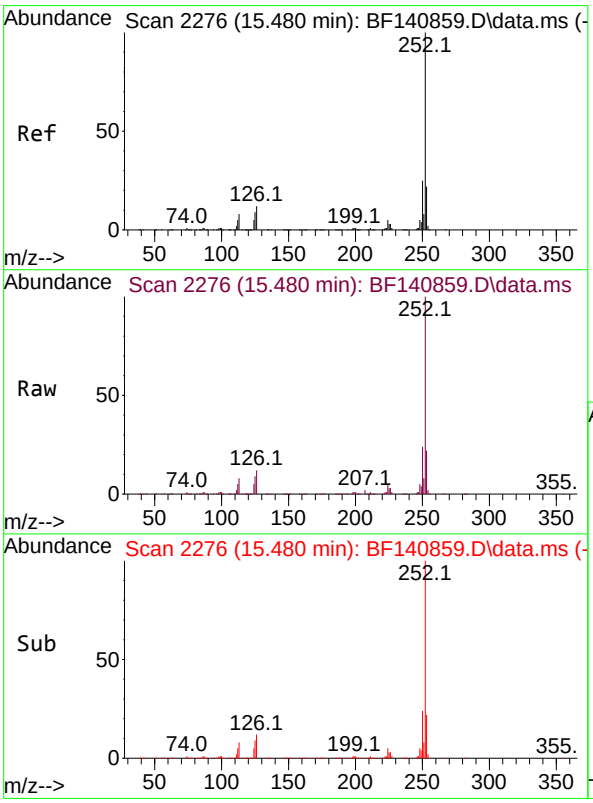
#89
Benzo(k)fluoranthene
Concen: 41.115 ng
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 496310

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.5	6.8	10.2

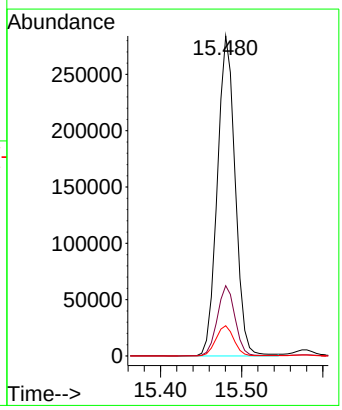


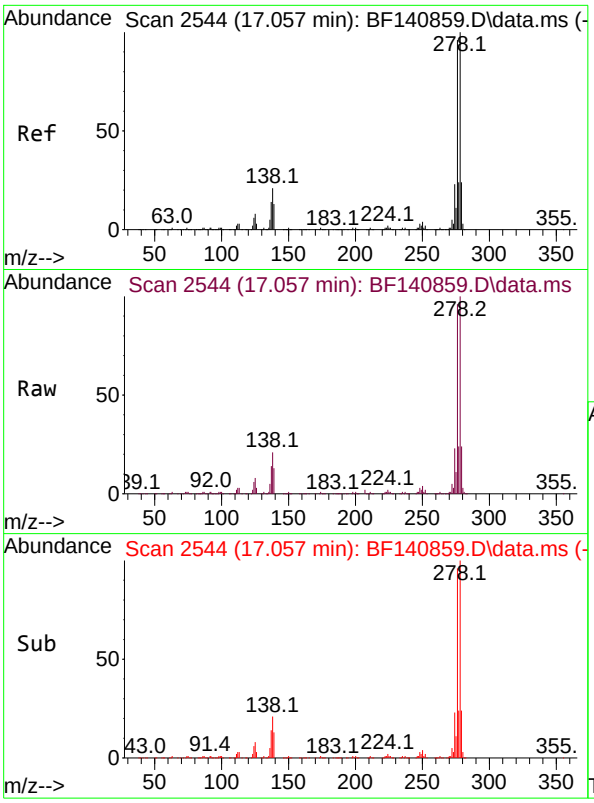


#90
Benzo(a)pyrene
Concen: 39.478 ng
RT: 15.480 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:252 Resp: 435015

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.4	7.5	11.3



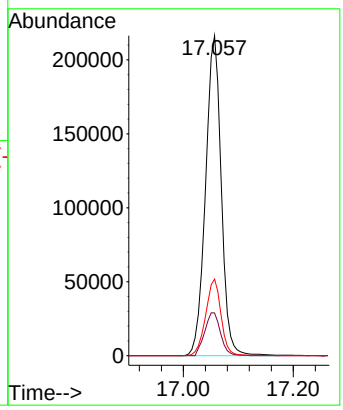


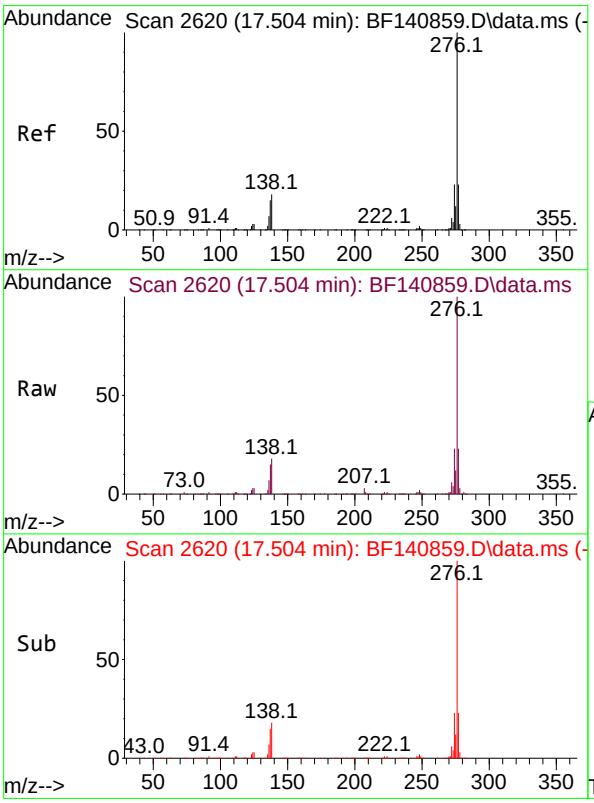
#91
Dibenzo(a,h)anthracene
Concen: 40.931 ng
RT: 17.057 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 428983

Ion	Ratio	Lower	Upper
278	100		
139	13.3	10.6	16.0
279	24.0	19.2	28.8

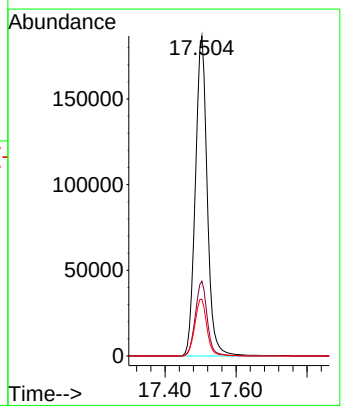




#92
Benzo(g,h,i)perylene
Concen: 40.771 ng
RT: 17.504 min Scan# 2620
Delta R.T. 0.000 min
Lab File: BF140859.D
Acq: 16 Dec 2024 14:26

Tgt Ion:276 Resp: 434898

Ion	Ratio	Lower	Upper
276	100		
277	23.4	18.7	28.1
138	17.7	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140860.D
Acq On : 16 Dec 2024 15:23
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Dec 16 16:50:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	76886	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	285955	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	172713	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	351718	20.000	ng	0.00
76) Chrysene-d12	14.033	240	231973	20.000	ng	0.00
86) Perylene-d12	15.527	264	225570	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	473230	101.322	ng	0.00
7) Phenol-d6	6.498	99	605803	97.928	ng	0.00
23) Nitrobenzene-d5	7.422	82	568078	99.392	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	202693	99.228	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	1161315	92.444	ng	0.00
79) Terphenyl-d14	12.957	244	1405567	95.545	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.622	88	100045	49.730	ng	100
3) Pyridine	3.399	79	234673	50.370	ng	98
4) n-Nitrosodimethylamine	3.363	42	119432	50.851	ng	99
6) Aniline	6.522	93	262131	49.559	ng	90
8) 2-Chlorophenol	6.645	128	252311	49.538	ng	98
9) Benzaldehyde	6.410	77	158111	46.127	ng	99
10) Phenol	6.516	94	315876	49.267	ng	96
11) bis(2-Chloroethyl)ether	6.587	93	237699	49.712	ng	98
12) 1,3-Dichlorobenzene	6.792	146	287366	49.515	ng	98
13) 1,4-Dichlorobenzene	6.869	146	287394	48.784	ng	99
14) 1,2-Dichlorobenzene	7.022	146	269678	48.518	ng	98
15) Benzyl Alcohol	6.998	79	219795	49.692	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	276410	49.072	ng	94
17) 2-Methylphenol	7.116	107	199766	49.127	ng	99
18) Hexachloroethane	7.357	117	107131	48.849	ng	99
19) n-Nitroso-di-n-propyla...	7.269	70	180295	48.587	ng	99
20) 3+4-Methylphenols	7.269	107	261470	48.491	ng	94
22) Acetophenone	7.263	105	354645	49.578	ng	99
24) Nitrobenzene	7.439	77	291463	49.777	ng	99
25) Isophorone	7.675	82	474812	49.580	ng	99
26) 2-Nitrophenol	7.751	139	136187	50.500	ng	98
27) 2,4-Dimethylphenol	7.792	122	156314	49.632	ng	97
28) bis(2-Chloroethoxy)met...	7.881	93	299078	50.002	ng	99
29) 2,4-Dichlorophenol	7.998	162	215069	49.463	ng	98
30) 1,2,4-Trichlorobenzene	8.069	180	244191	48.990	ng	98
31) Naphthalene	8.151	128	779270	49.610	ng	100
32) Benzoic acid	7.951	122	157548	52.746	ng	100
33) 4-Chloroaniline	8.210	127	255688	49.011	ng	99
34) Hexachlorobutadiene	8.263	225	166884	49.763	ng	99
35) Caprolactam	8.592	113	63631	49.156	ng	97
36) 4-Chloro-3-methylphenol	8.698	107	237414	48.512	ng	98
37) 2-Methylnaphthalene	8.839	142	500202	48.139	ng	100
38) 1-Methylnaphthalene	8.939	142	490420	47.724	ng	100
40) 1,2,4,5-Tetrachloroben...	9.010	216	248636	46.837	ng	99
41) Hexachlorocyclopentadiene	8.992	237	70543	50.029	ng	99
43) 2,4,6-Trichlorophenol	9.128	196	154361	47.487	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140860.D
Acq On : 16 Dec 2024 15:23
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Dec 16 16:50:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

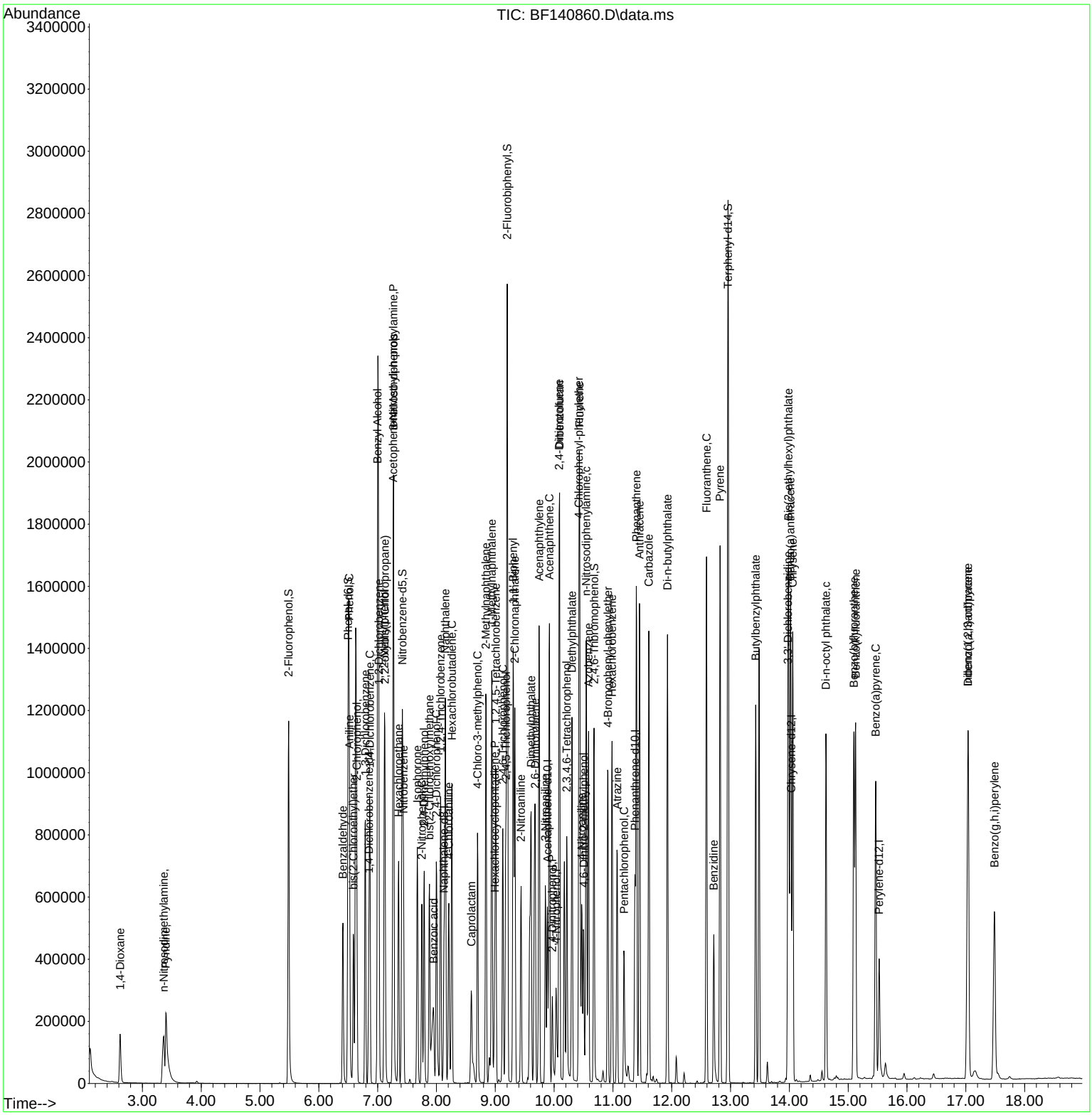
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	170411	47.697	ng	99
46) 1,1'-Biphenyl	9.304	154	631768	46.001	ng	99
47) 2-Chloronaphthalene	9.333	162	485339	46.194	ng	98
48) 2-Nitroaniline	9.439	65	147104	46.359	ng	96
49) Acenaphthylene	9.745	152	732431	47.437	ng	100
50) Dimethylphthalate	9.610	163	564903	46.392	ng	99
51) 2,6-Dinitrotoluene	9.680	165	130941	47.039	ng	97
52) Acenaphthene	9.922	154	475150	48.175	ng	100
53) 3-Nitroaniline	9.851	138	140148	50.732	ng	99
54) 2,4-Dinitrophenol	9.969	184	62738	48.955	ng	99
55) Dibenzofuran	10.092	168	736252	48.174	ng	100
56) 4-Nitrophenol	10.033	139	72965	50.818	ng	96
57) 2,4-Dinitrotoluene	10.086	165	181952	49.679	ng	99
58) Fluorene	10.433	166	617054	48.940	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	153671	52.784	ng	100
60) Diethylphthalate	10.304	149	624564	49.463	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	313978	49.574	ng	99
62) 4-Nitroaniline	10.469	138	148255	51.356	ng	99
63) Azobenzene	10.586	77	586556	49.412	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	103510	51.936	ng	98
66) n-Nitrosodiphenylamine	10.545	169	520491	48.132	ng	100
67) 4-Bromophenyl-phenylether	10.916	248	188429	47.888	ng	97
68) Hexachlorobenzene	10.986	284	215259	48.252	ng	99
69) Atrazine	11.075	200	134376	44.493	ng	99
70) Pentachlorophenol	11.192	266	89834	55.046	ng	99
71) Phenanthrene	11.398	178	868333	48.009	ng	99
72) Anthracene	11.451	178	860045	48.285	ng	99
73) Carbazole	11.610	167	854710	48.990	ng	99
74) Di-n-butylphthalate	11.927	149	1041587	50.870	ng	100
75) Fluoranthene	12.592	202	1000374	48.026	ng	99
77) Benzidine	12.716	184	285677	60.340	ng	99
78) Pyrene	12.821	202	1021434	49.516	ng	100
80) Butylbenzylphthalate	13.427	149	389705	51.343	ng	99
81) Benzo(a)anthracene	14.015	228	804868	48.956	ng	100
82) 3,3'-Dichlorobenzidine	13.974	252	250344	50.470	ng	99
83) Chrysene	14.057	228	727490	48.661	ng	100
84) Bis(2-ethylhexyl)phtha...	13.986	149	495633	50.642	ng	100
85) Di-n-octyl phthalate	14.621	149	777794	52.530	ng	100
87) Indeno(1,2,3-cd)pyrene	17.039	276	625642	44.446	ng	99
88) Benzo(b)fluoranthene	15.098	252	712222	45.486	ng	99
89) Benzo(k)fluoranthene	15.127	252	644153	47.959	ng	99
90) Benzo(a)pyrene	15.468	252	595306	48.554	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	517904	44.411	ng	99
92) Benzo(g,h,i)perylene	17.486	276	532268	44.846	ng	99

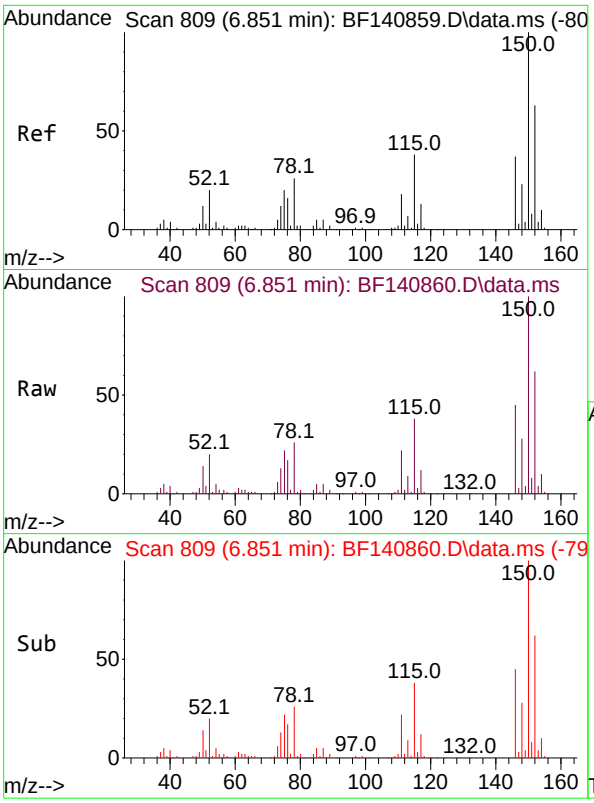
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140860.D
Acq On : 16 Dec 2024 15:23
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Dec 16 16:50:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



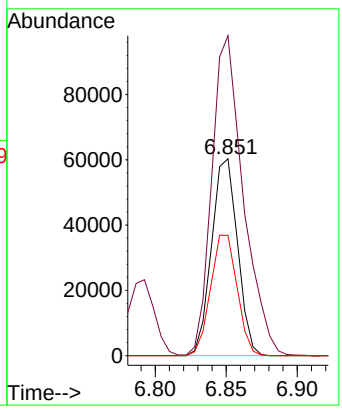


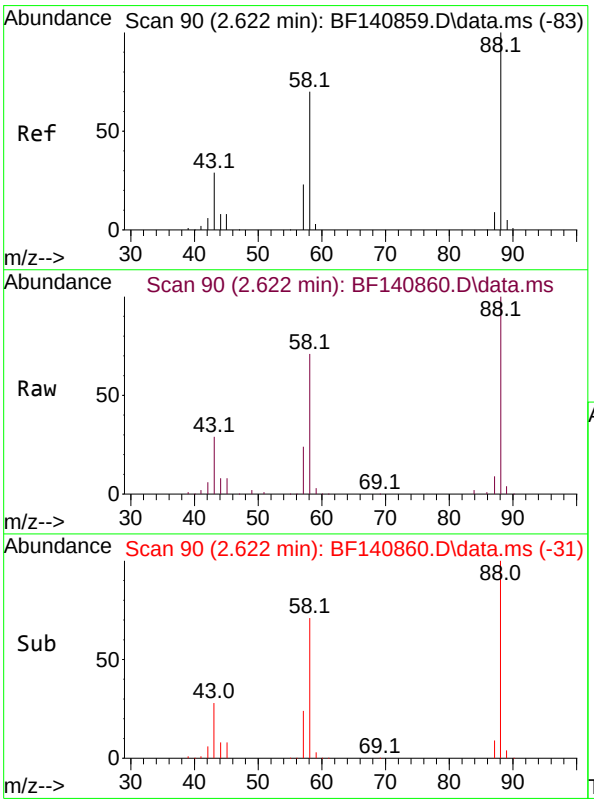
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 76886

Ion	Ratio	Lower	Upper
152	100		
150	162.5	127.9	191.9
115	61.1	48.0	72.0

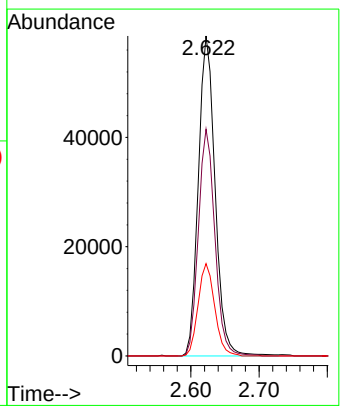


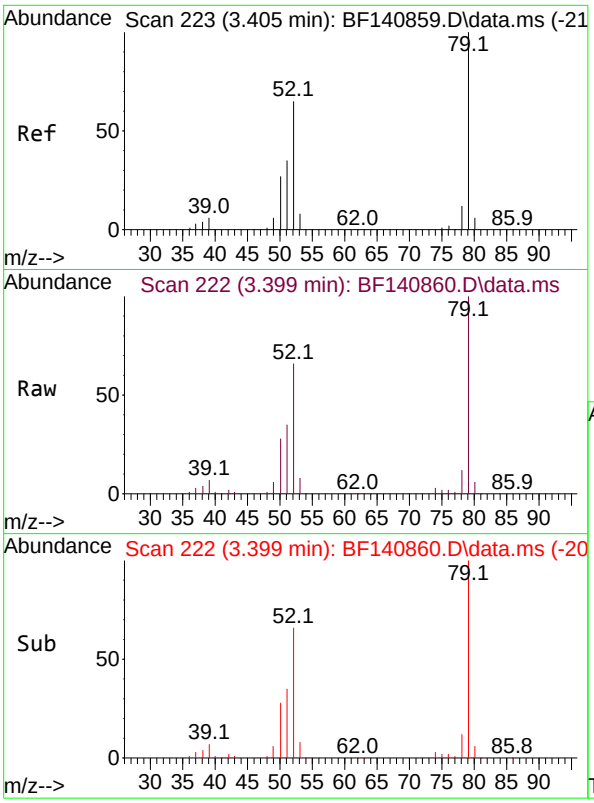


#2
1,4-Dioxane
Concen: 49.730 ng
RT: 2.622 min Scan# 90
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 88 Resp: 100045

Ion	Ratio	Lower	Upper
88	100		
58	69.7	55.8	83.8
43	28.5	22.7	34.1



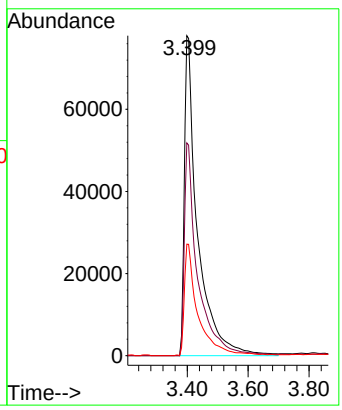


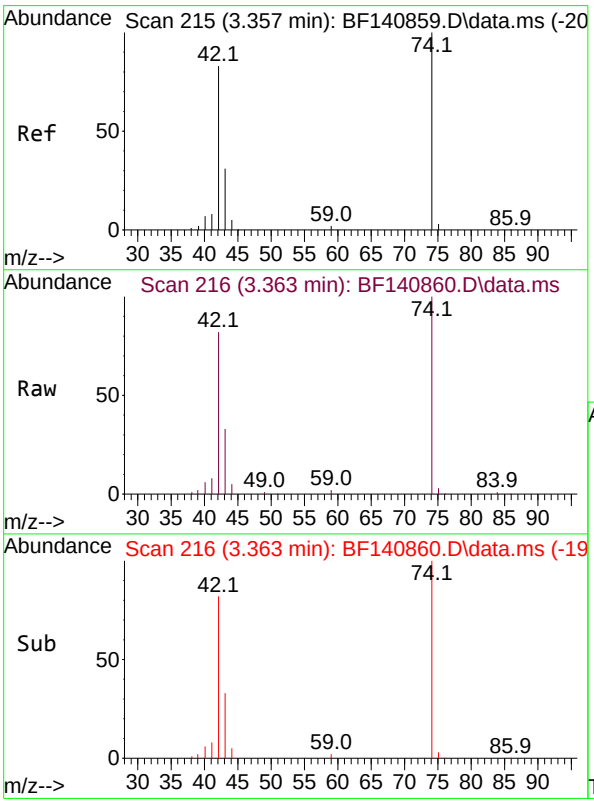
#3
Pyridine
Concen: 50.370 ng
RT: 3.399 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 234673

Ion	Ratio	Lower	Upper
79	100		
52	66.5	51.7	77.5
51	34.9	28.2	42.4

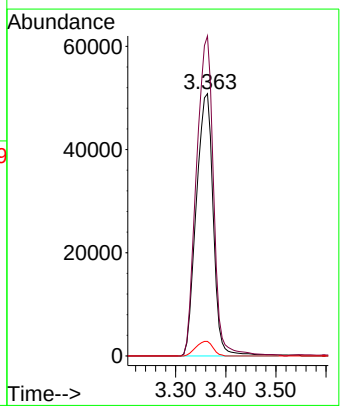


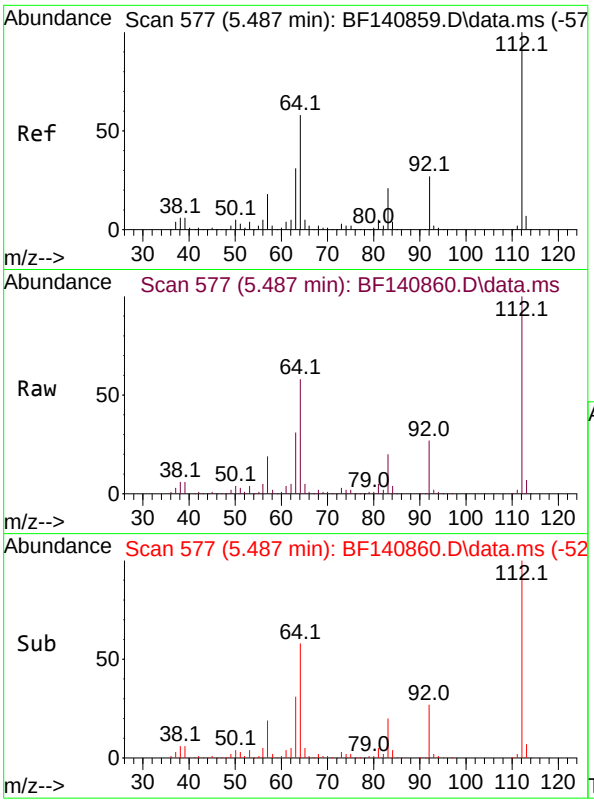


#4
n-Nitrosodimethylamine
Concen: 50.851 ng
RT: 3.363 min Scan# 216
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 42 Resp: 119432

Ion	Ratio	Lower	Upper
42	100		
74	122.0	96.9	145.3
44	5.5	4.4	6.6



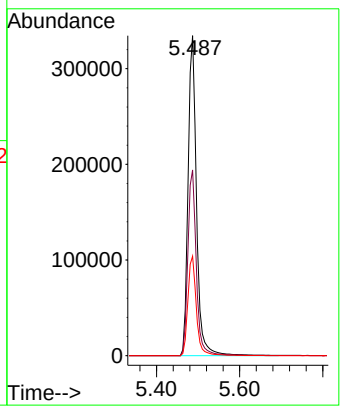


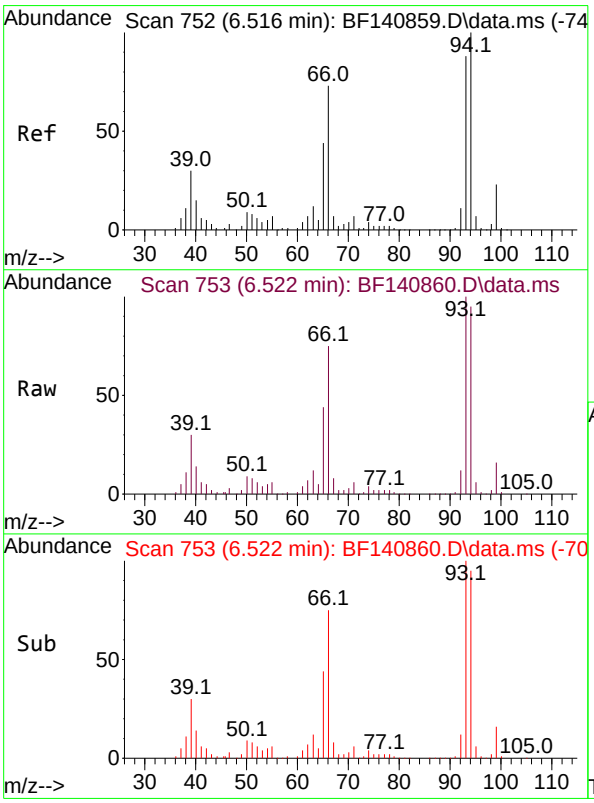
#5
2-Fluorophenol
Concen: 101.322 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 473230

Ion	Ratio	Lower	Upper
112	100		
64	58.0	46.1	69.1
63	31.1	24.9	37.3

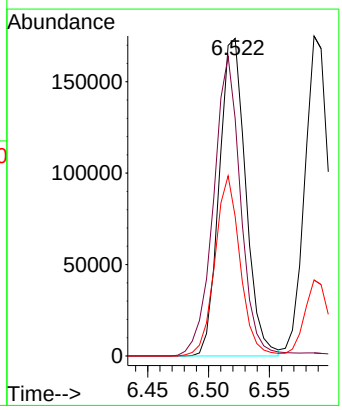


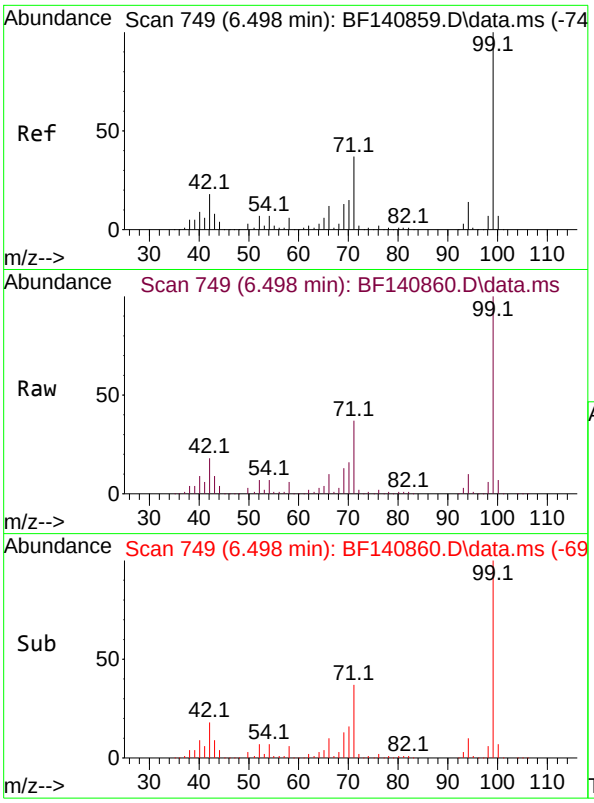


#6
Aniline
Concen: 49.559 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 93 Resp: 262131

Ion	Ratio	Lower	Upper
93	100		
66	74.7	67.0	100.4
65	43.9	40.4	60.6



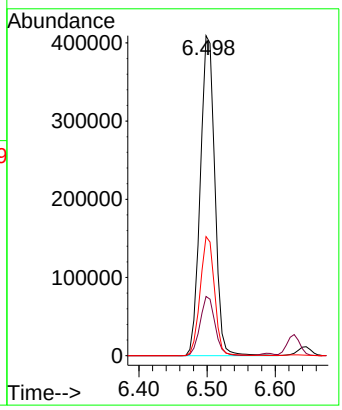


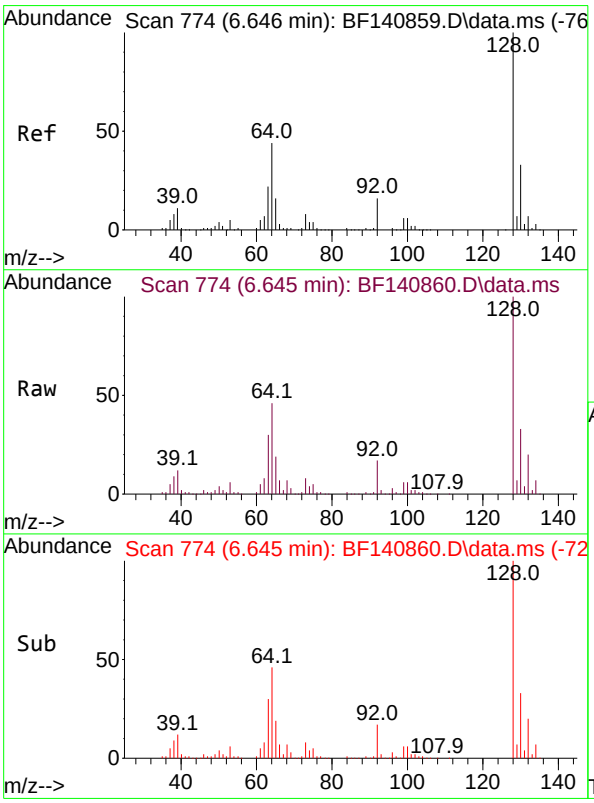
#7
Phenol-d6
Concen: 97.928 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 605803

Ion	Ratio	Lower	Upper
99	100		
42	18.5	14.3	21.5
71	37.2	29.9	44.9

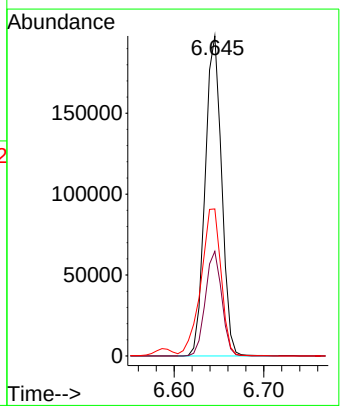


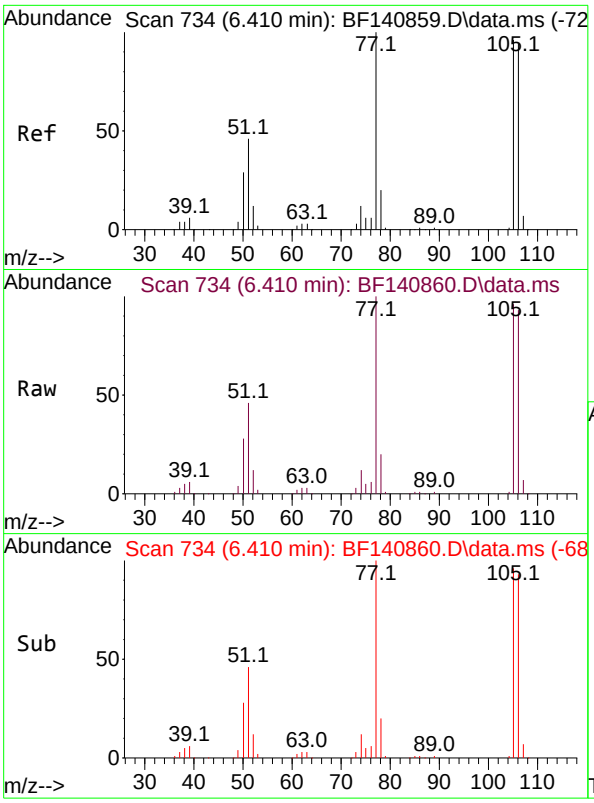


#8
2-Chlorophenol
Concen: 49.538 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:128 Resp: 252311

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.9	52.9
64	45.9	24.3	64.3



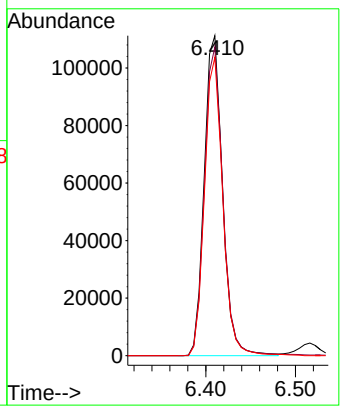


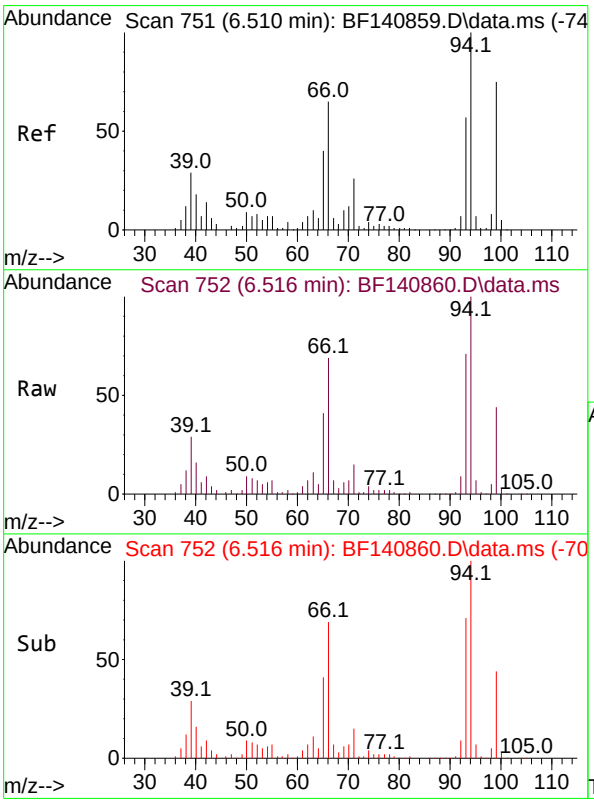
#9
Benzaldehyde
Concen: 46.127 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 158111

Ion	Ratio	Lower	Upper
77	100		
105	96.4	75.8	115.8
106	93.2	74.1	114.1

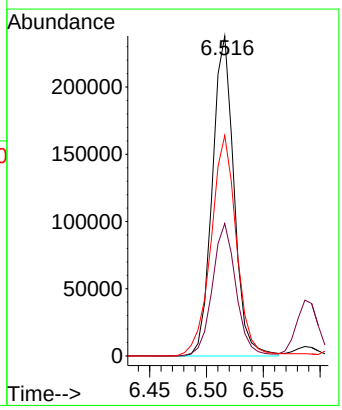


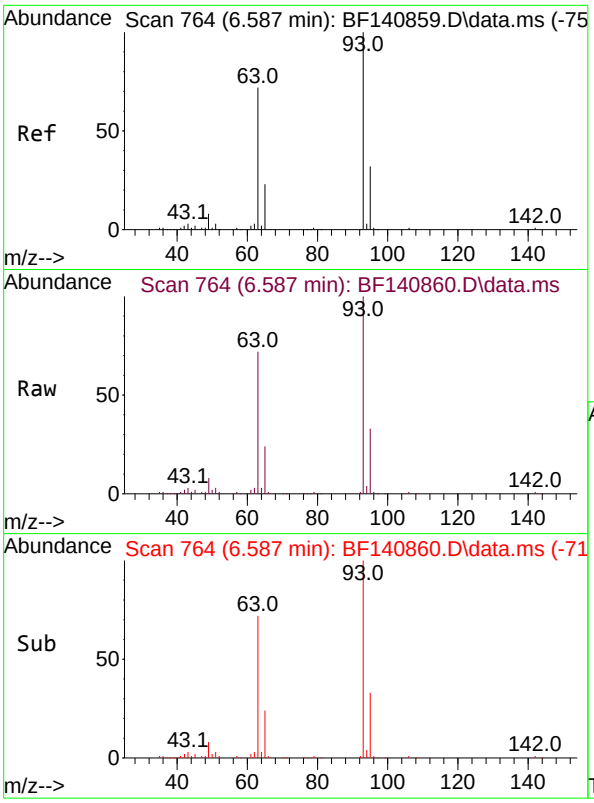


#10
Phenol
Concen: 49.267 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 94 Resp: 315876

Ion	Ratio	Lower	Upper
94	100		
65	41.4	19.9	59.9
66	68.9	45.6	85.6



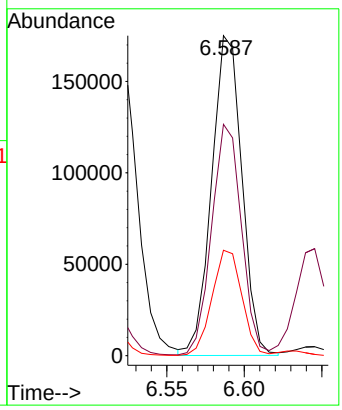


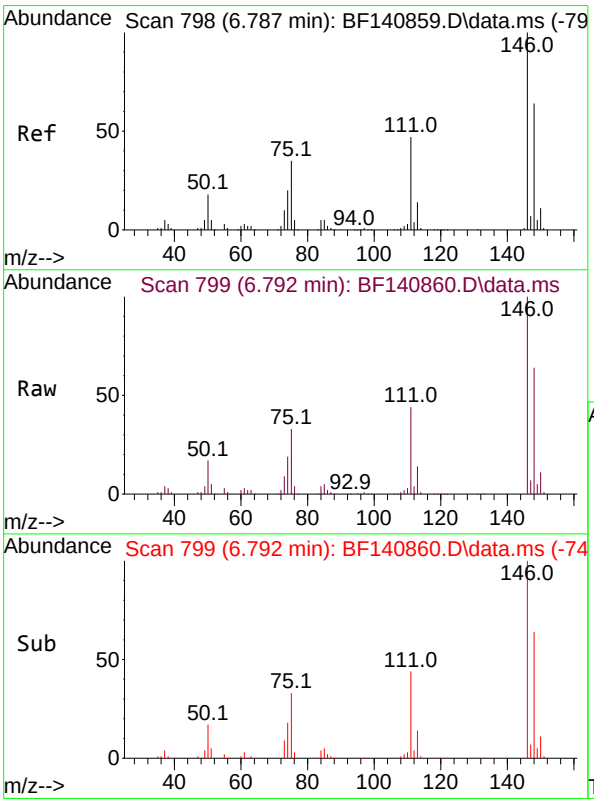
#11
bis(2-Chloroethyl)ether
Concen: 49.712 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 237699

Ion	Ratio	Lower	Upper
93	100		
63	72.3	51.0	91.0
95	32.9	12.0	52.0

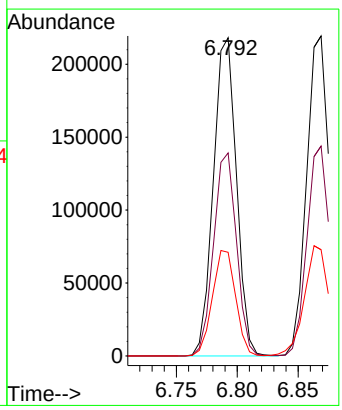


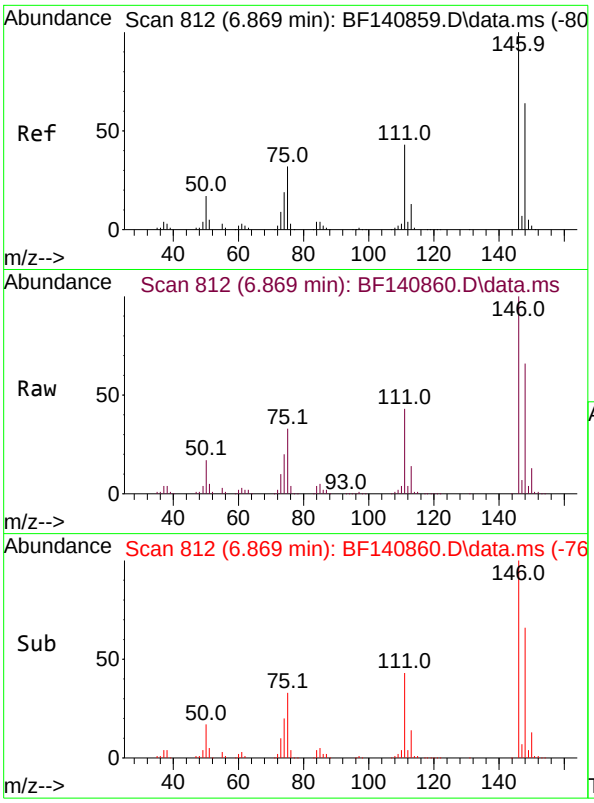


#12
1,3-Dichlorobenzene
Concen: 49.515 ng
RT: 6.792 min Scan# 799
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:146 Resp: 287366

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
75	32.6	28.1	42.1



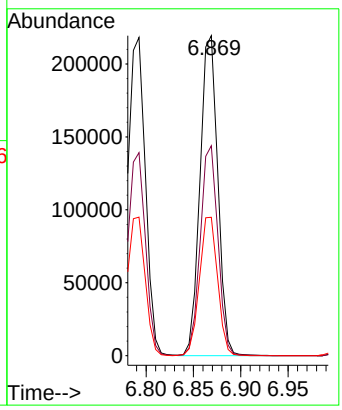


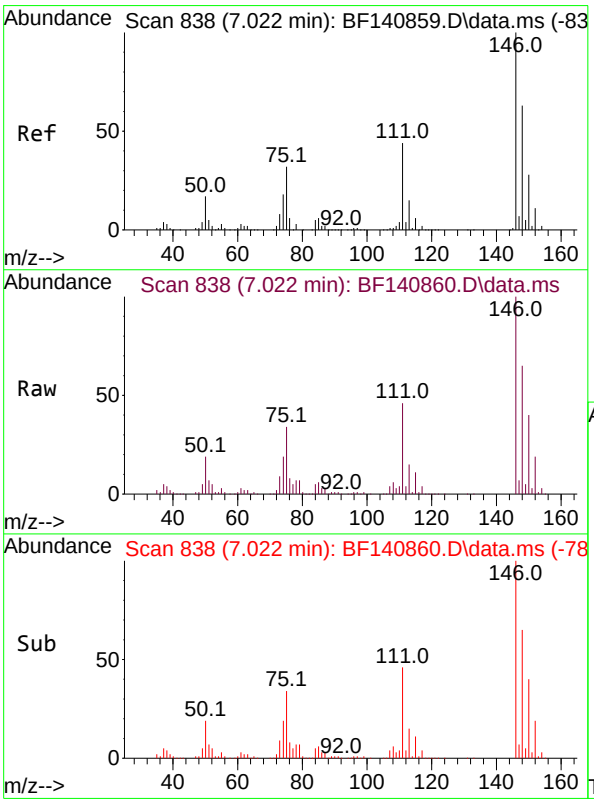
#13
1,4-Dichlorobenzene
Concen: 48.784 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 287394

Ion	Ratio	Lower	Upper
146	100		
148	65.6	51.3	76.9
111	43.3	34.4	51.6

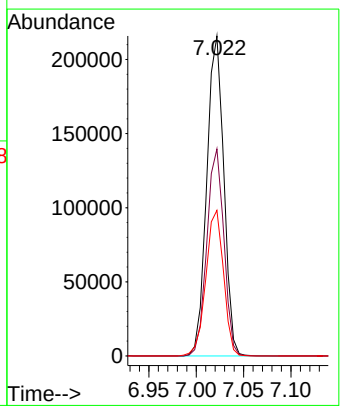


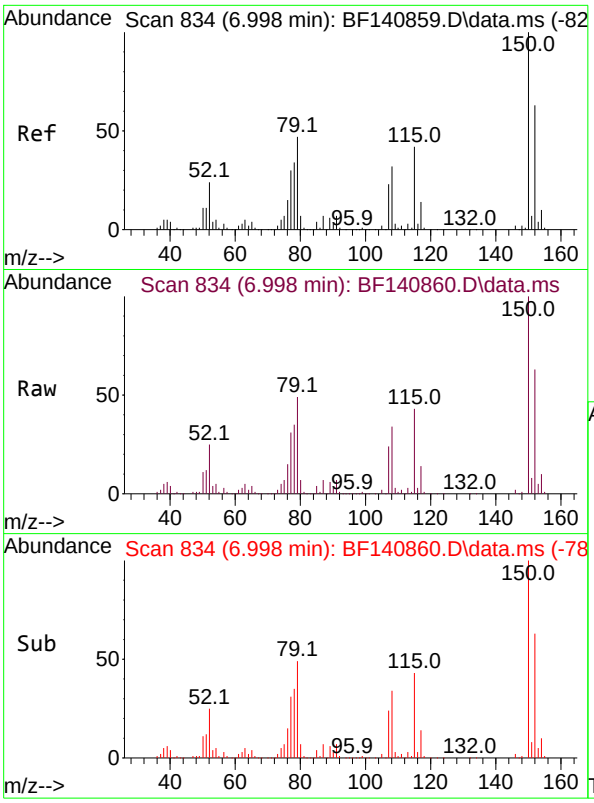


#14
1,2-Dichlorobenzene
Concen: 48.518 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:146 Resp: 269678

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.0	75.0
111	45.5	35.6	53.4



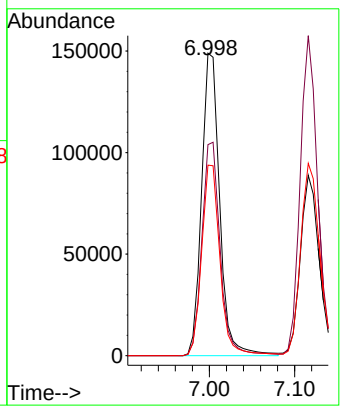


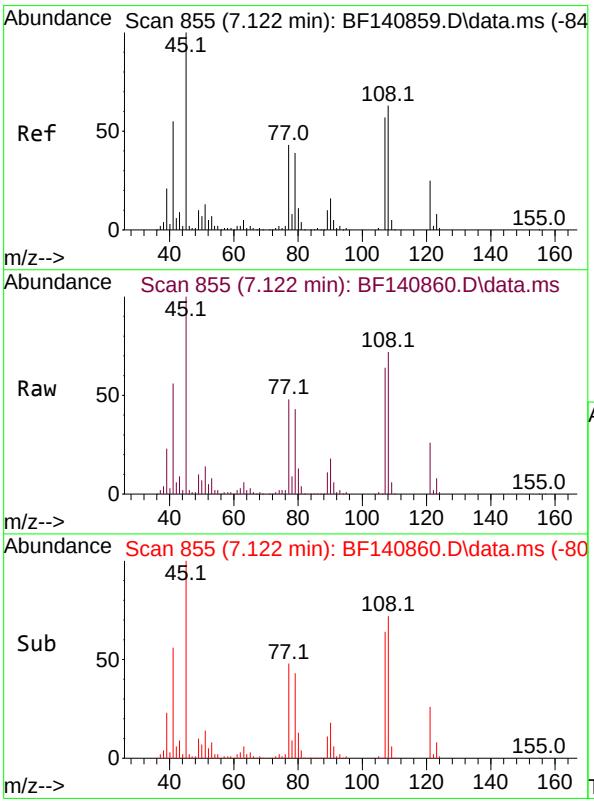
#15
Benzyl Alcohol
Concen: 49.692 ng
RT: 6.998 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 219795

Ion	Ratio	Lower	Upper
79	100		
108	69.7	55.1	82.7
77	63.0	50.6	76.0

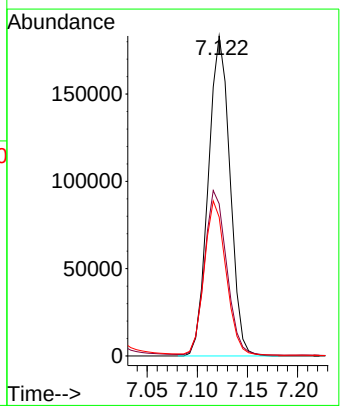


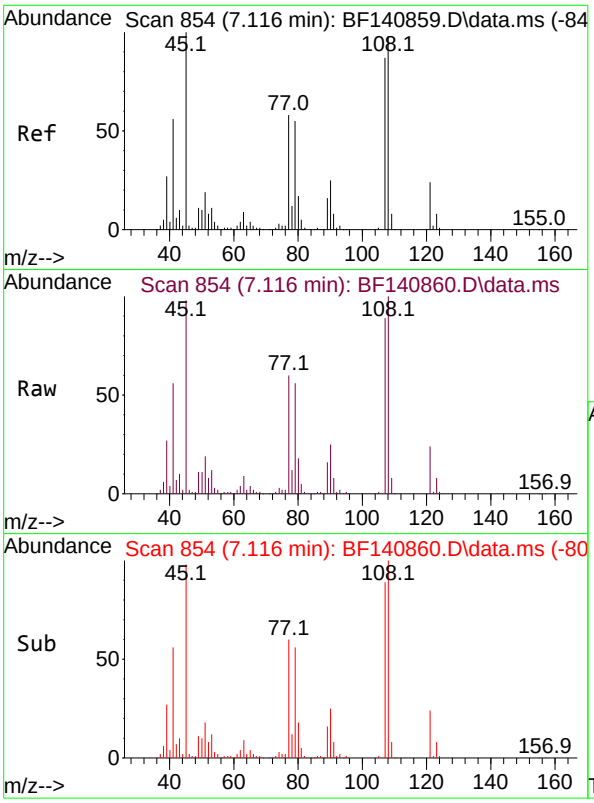


#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.072 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 45 Resp: 276410

Ion	Ratio	Lower	Upper
45	100		
77	47.6	23.3	63.3
79	43.4	20.0	60.0



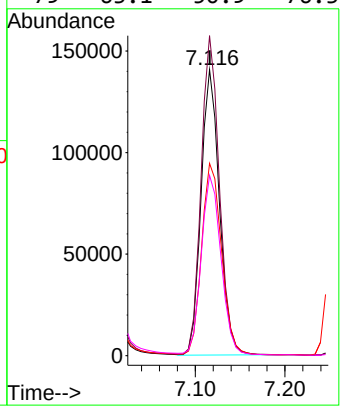


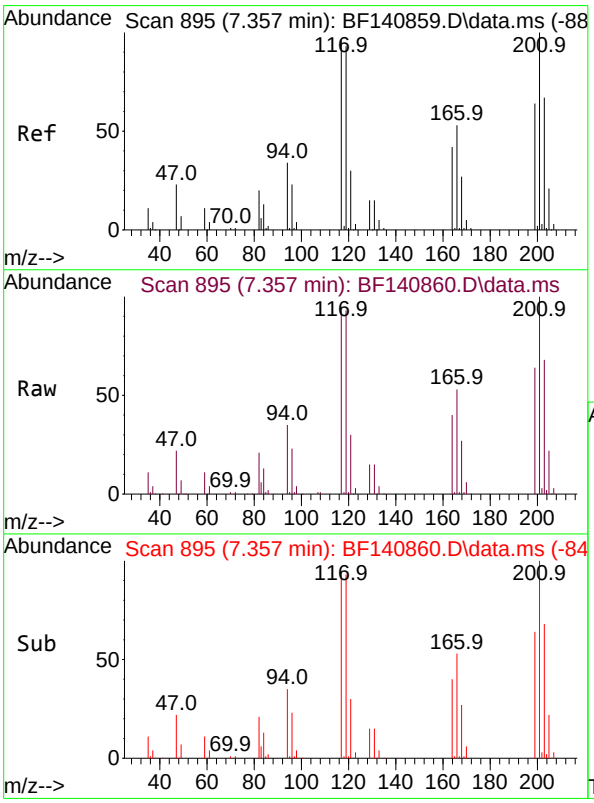
#17
2-Methylphenol
Concen: 49.127 ng
RT: 7.116 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 199766

Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.2	135.4
77	67.3	53.8	80.6
79	63.1	50.9	76.3

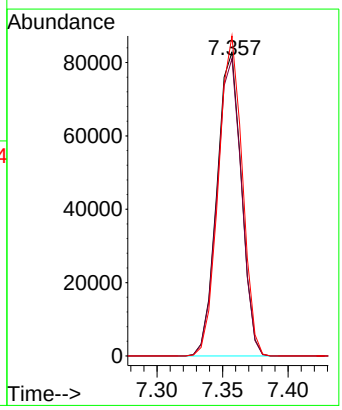


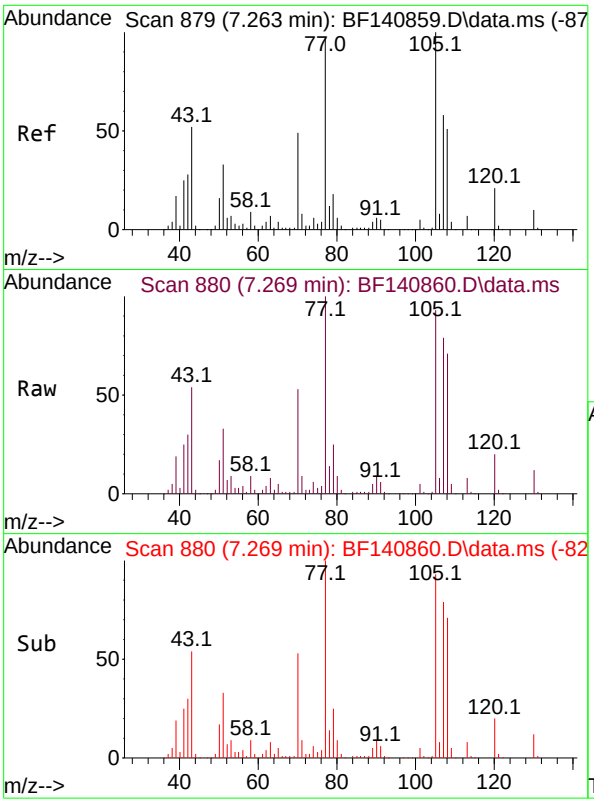


#18
Hexachloroethane
Concen: 48.849 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:117 Resp: 107131

Ion	Ratio	Lower	Upper
117	100		
119	97.9	77.4	116.0
201	105.4	83.4	125.0



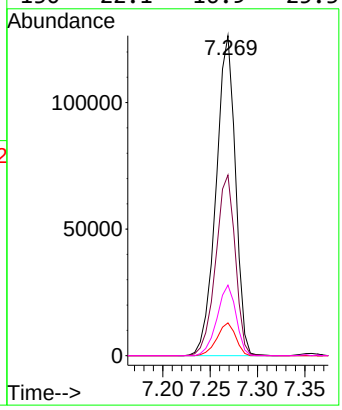


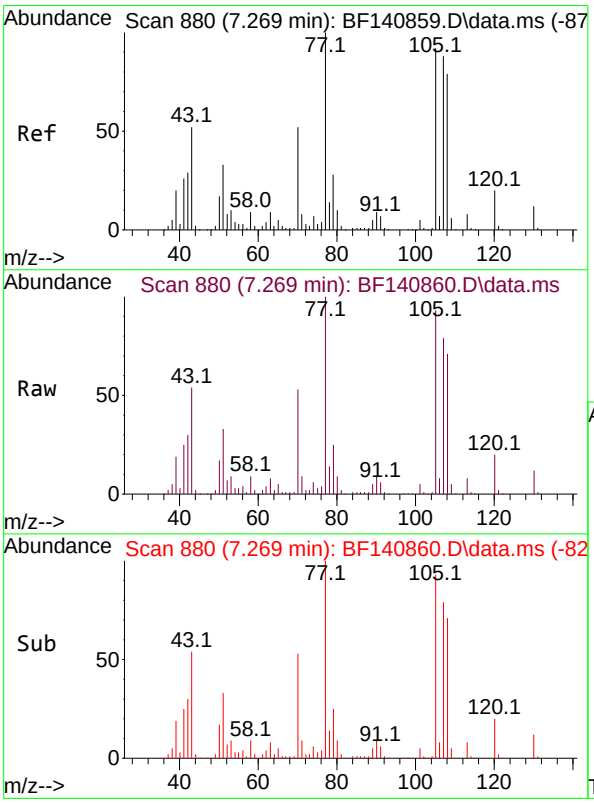
#19
n-Nitroso-di-n-propylamine
Concen: 48.587 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 180295

Ion	Ratio	Lower	Upper
70	100		
42	56.4	45.3	67.9
101	10.2	8.0	12.0
130	22.1	16.9	25.3

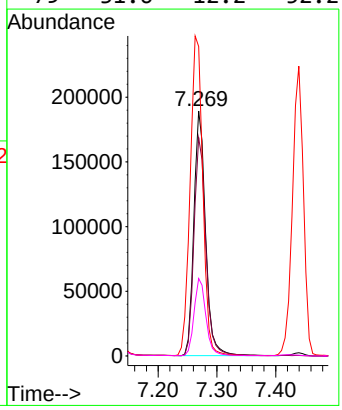


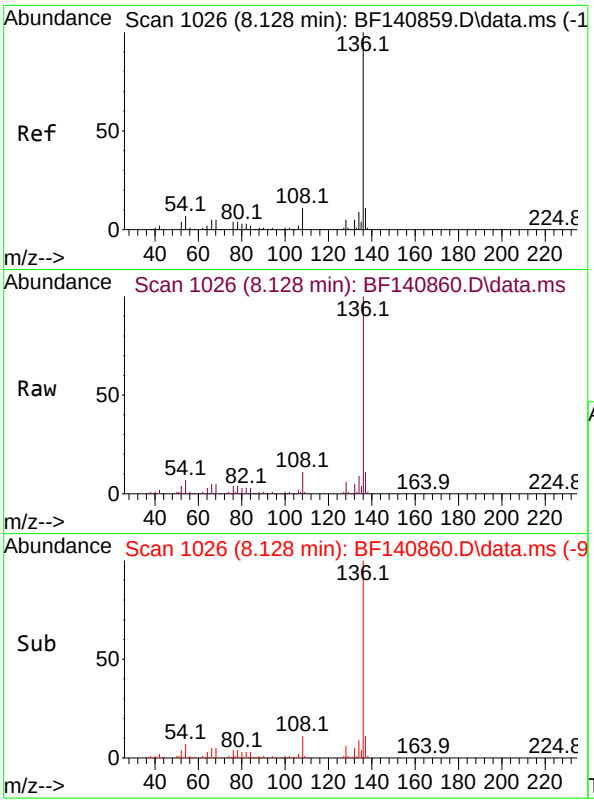


#20
3+4-Methylphenols
Concen: 48.491 ng
RT: 7.269 min Scan# 880
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:107 Resp: 261470

Ion	Ratio	Lower	Upper
107	100		
108	89.1	70.1	110.1
77	126.3	94.4	134.4
79	31.6	12.2	52.2



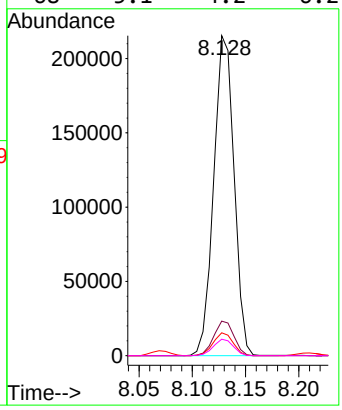


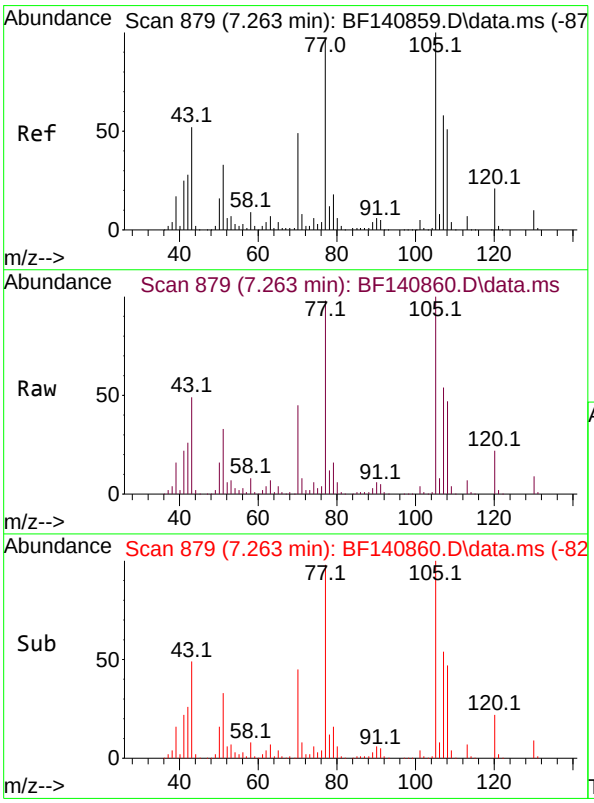
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 285955

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	7.1	5.6	8.4
68	5.1	4.2	6.2

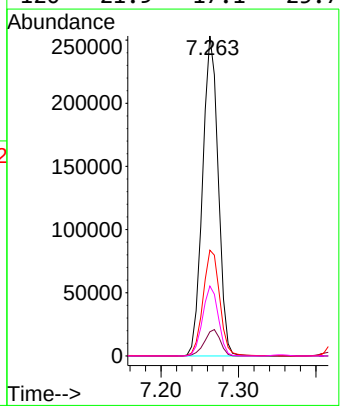


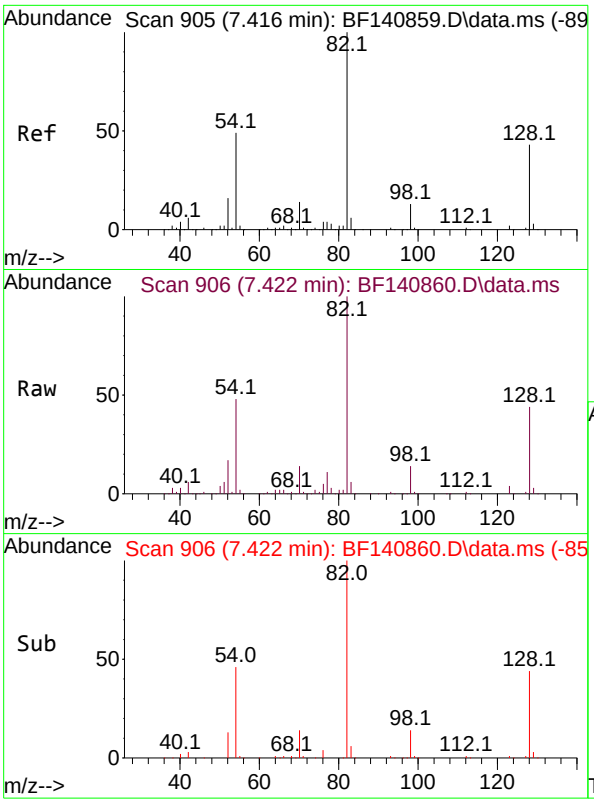


#22
Acetophenone
Concen: 49.578 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:105 Resp: 354645

Ion	Ratio	Lower	Upper
105	100		
71	7.5	6.2	9.4
51	33.1	26.3	39.5
120	21.9	17.1	25.7



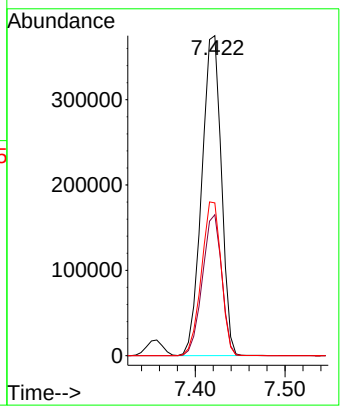


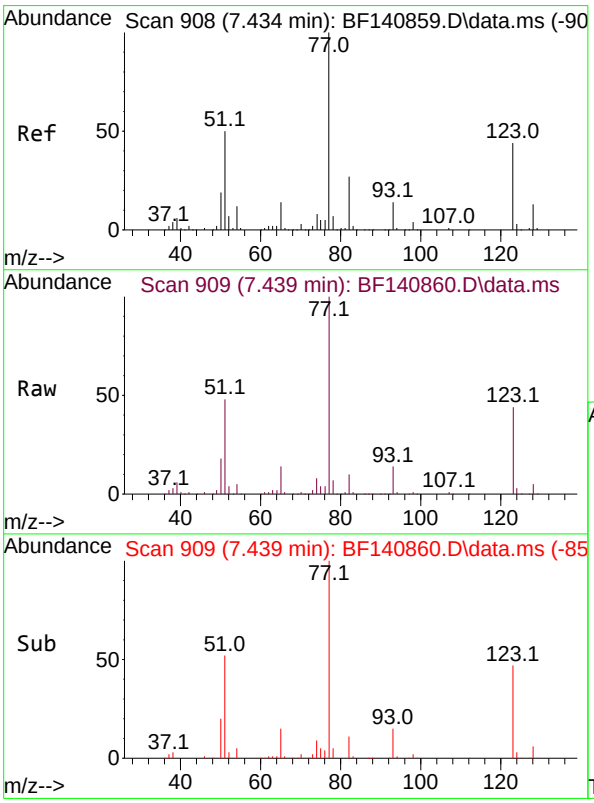
#23
Nitrobenzene-d5
Concen: 99.392 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 568078

Ion	Ratio	Lower	Upper
82	100		
128	44.0	34.4	51.6
54	47.7	38.8	58.2

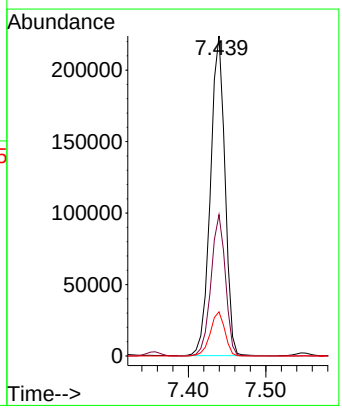


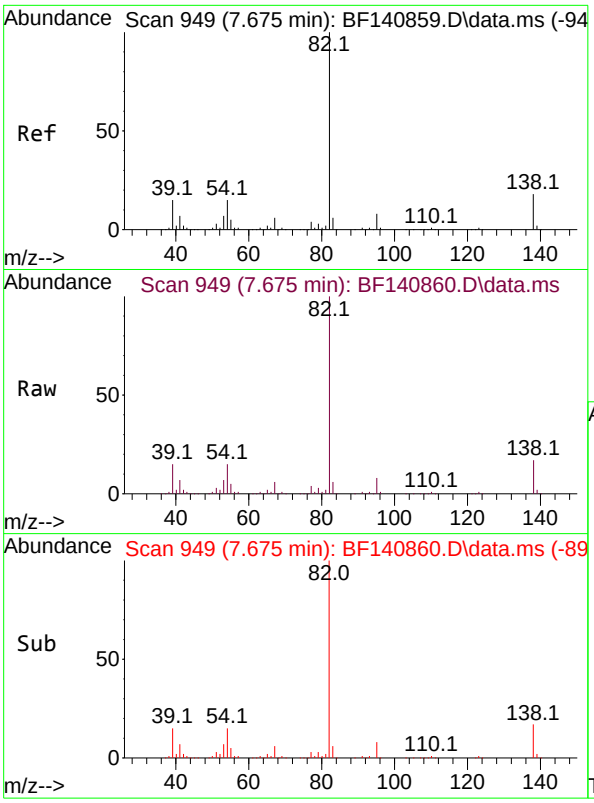


#24
Nitrobenzene
Concen: 49.777 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 77 Resp: 291463

Ion	Ratio	Lower	Upper
77	100		
123	44.1	35.0	52.4
65	13.8	11.4	17.0



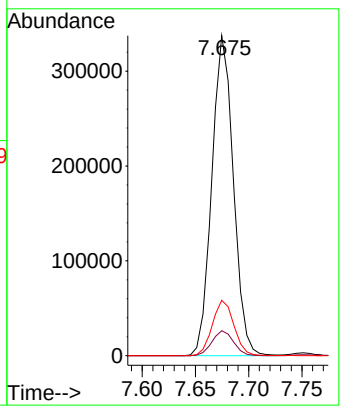


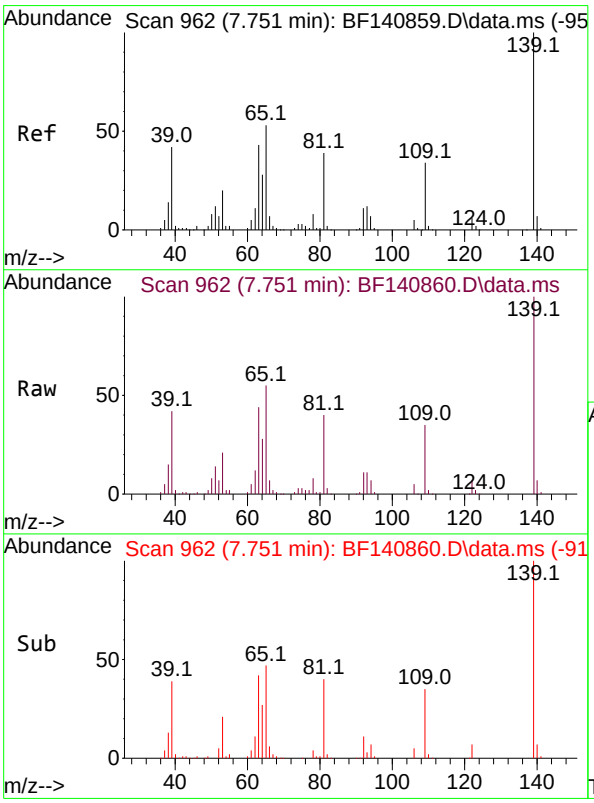
#25
Isophorone
Concen: 49.580 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 474812

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.3	9.5
138	17.3	14.1	21.1

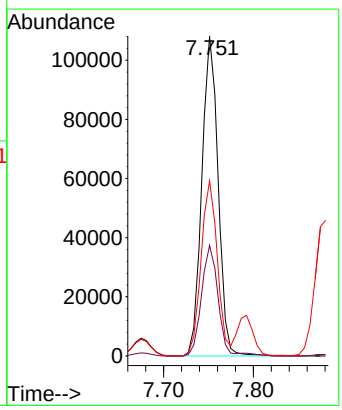


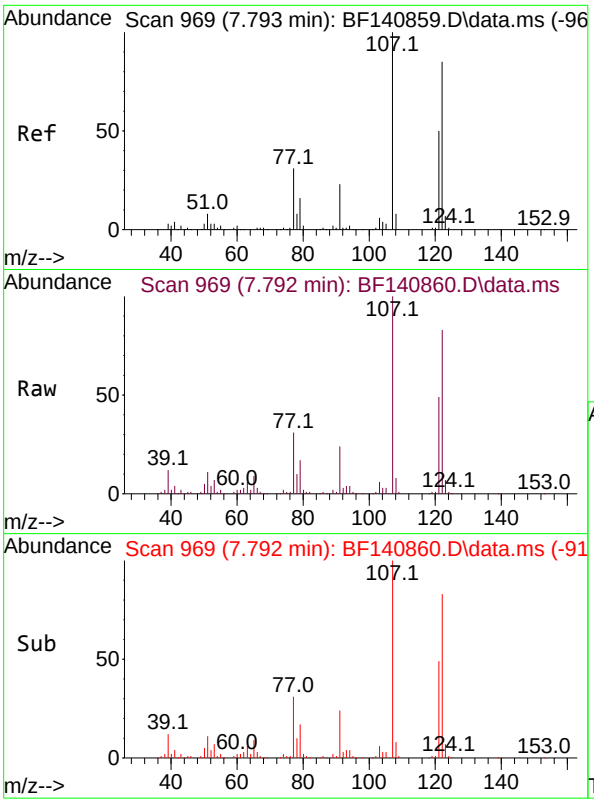


#26
2-Nitrophenol
Concen: 50.500 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:139 Resp: 136187

Ion	Ratio	Lower	Upper
139	100		
109	34.5	26.9	40.3
65	54.7	42.6	64.0



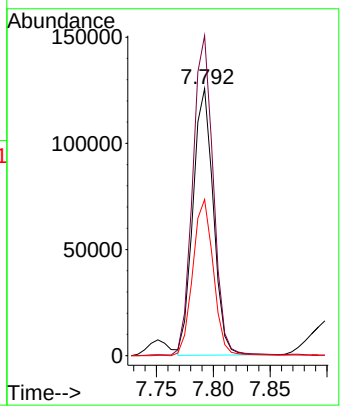


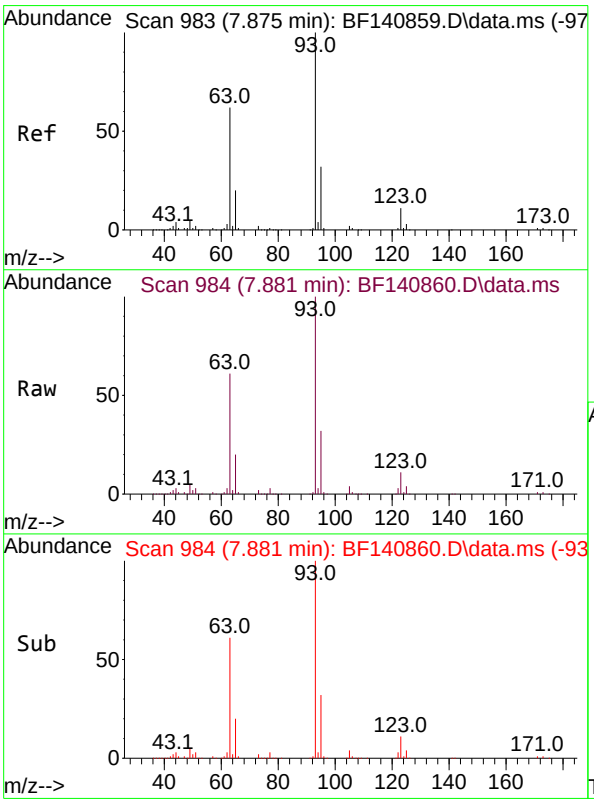
#27
2,4-Dimethylphenol
Concen: 49.632 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 156314

Ion	Ratio	Lower	Upper
122	100		
107	119.8	92.6	139.0
121	58.5	45.8	68.8

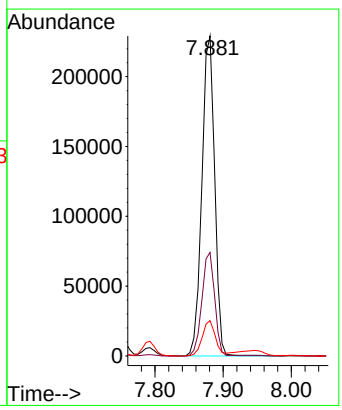


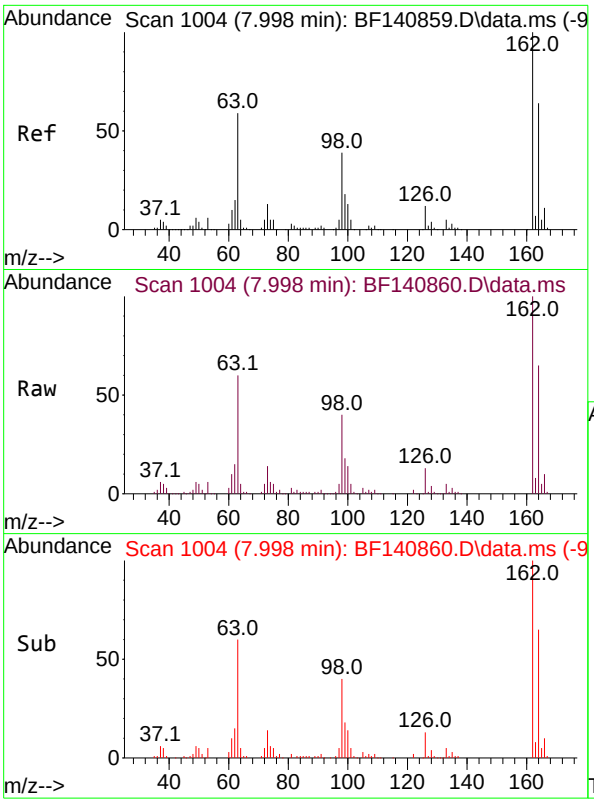


#28
bis(2-Chloroethoxy)methane
Concen: 50.002 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 93 Resp: 299078

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.3	37.9
123	11.0	8.6	13.0



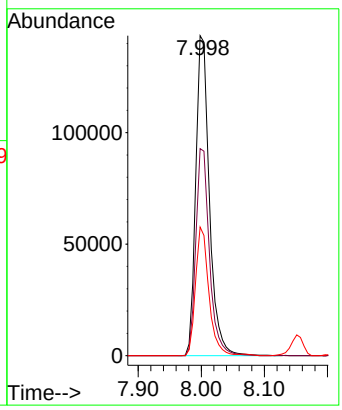


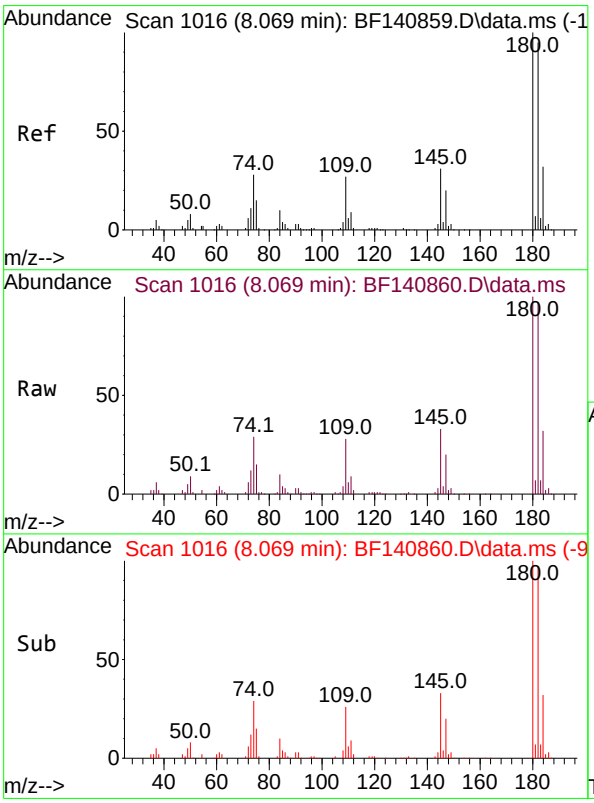
#29
2,4-Dichlorophenol
Concen: 49.463 ng
RT: 7.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 215069

Ion	Ratio	Lower	Upper
162	100		
164	64.7	43.7	83.7
98	40.2	18.6	58.6

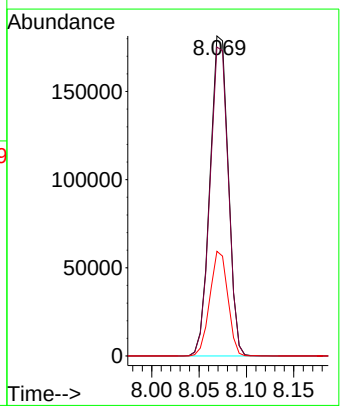


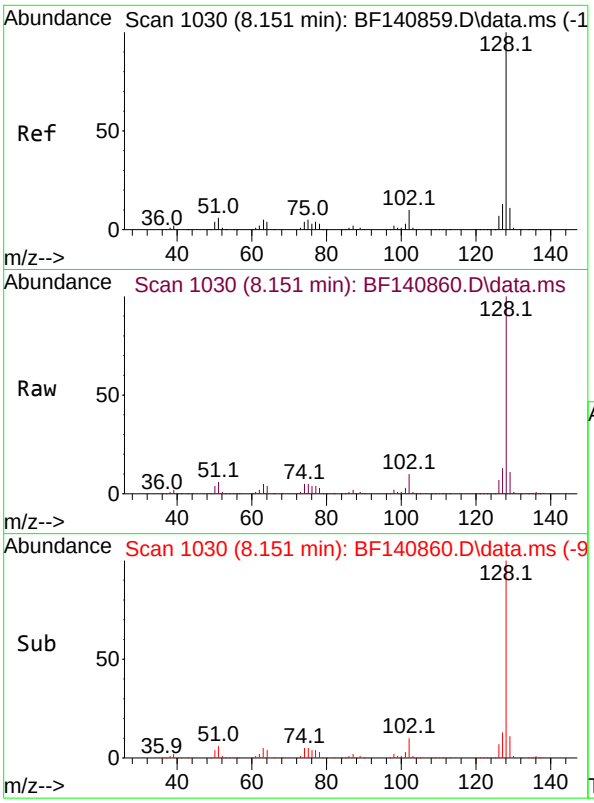


#30
1,2,4-Trichlorobenzene
Concen: 48.990 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:180 Resp: 244191

Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.8	113.6
145	32.7	25.2	37.8



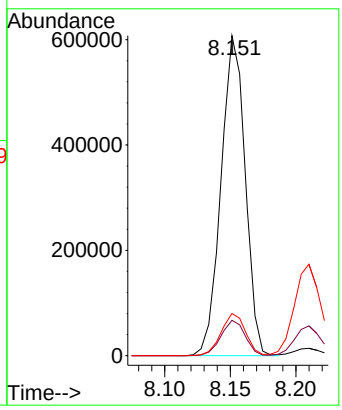


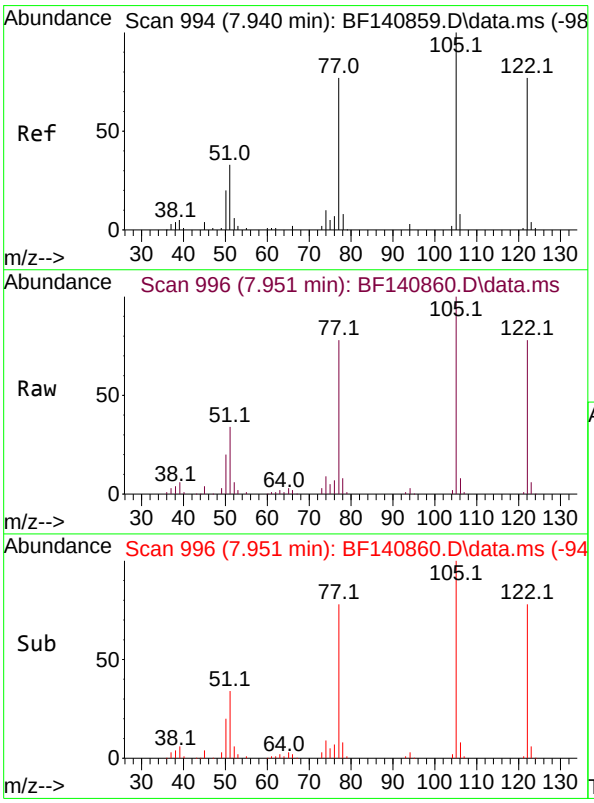
#31
Naphthalene
Concen: 49.610 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 779270

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	16.0

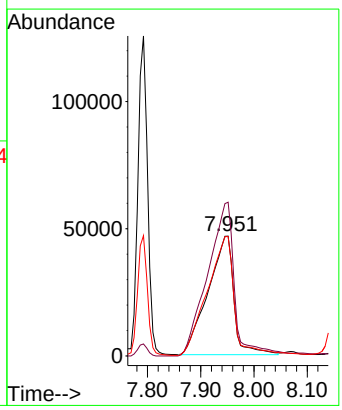


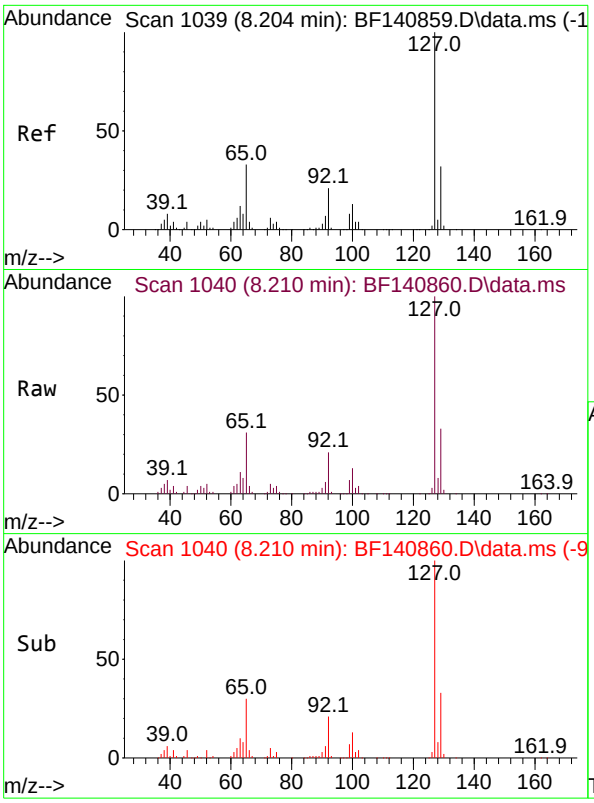


#32
Benzoic acid
Concen: 52.746 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.011 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:122 Resp: 157548

Ion	Ratio	Lower	Upper
122	100		
105	128.3	108.3	148.3
77	99.7	78.8	118.8



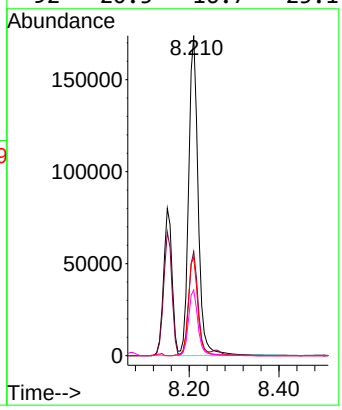


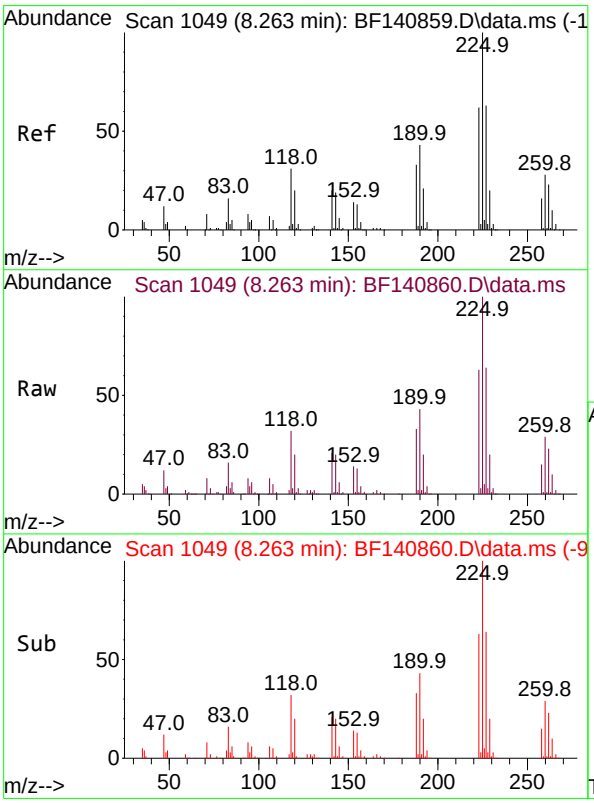
#33
4-Chloroaniline
Concen: 49.011 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 255688

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.0	39.0
65	30.8	26.0	39.0
92	20.5	16.7	25.1

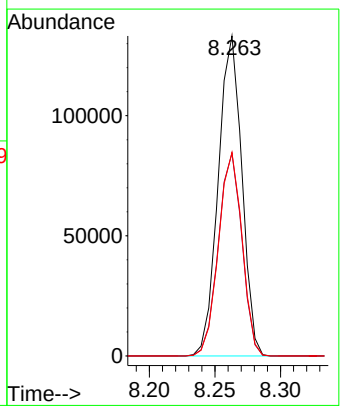


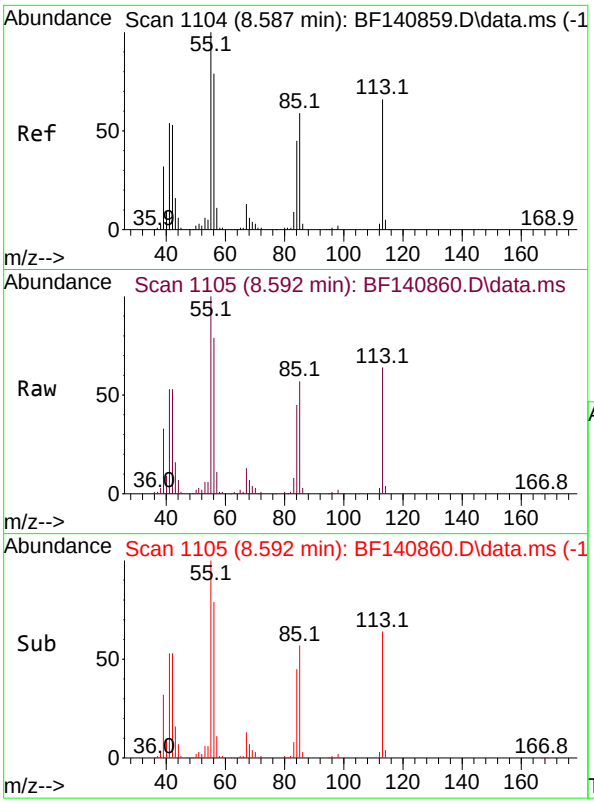


#34
Hexachlorobutadiene
Concen: 49.763 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:225 Resp: 166884

Ion	Ratio	Lower	Upper
225	100		
223	63.4	49.6	74.4
227	63.6	50.7	76.1



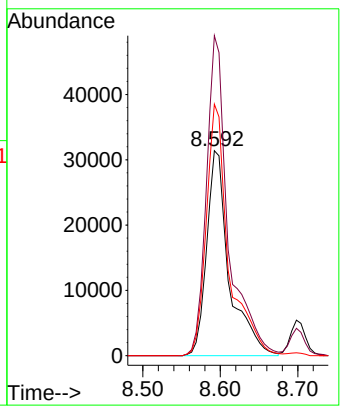


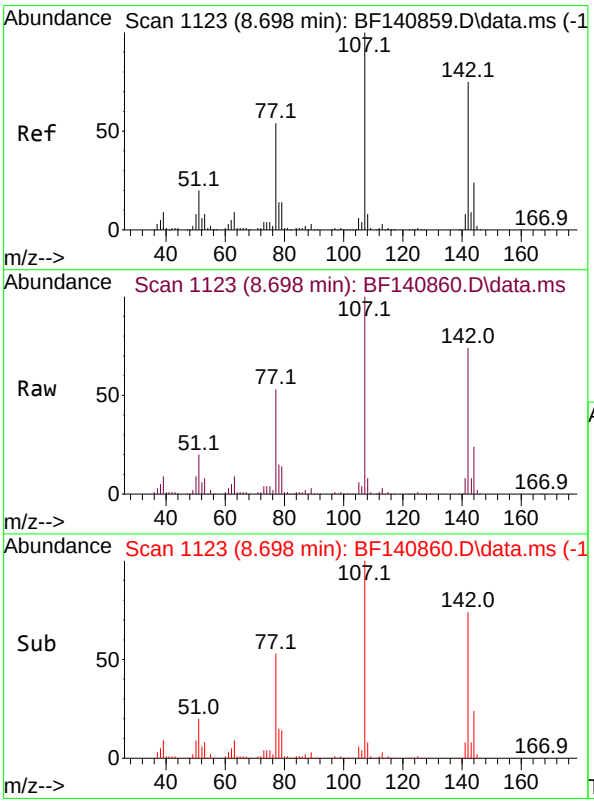
#35
Caprolactam
Concen: 49.156 ng
RT: 8.592 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 63631

Ion	Ratio	Lower	Upper
113	100		
55	156.1	132.3	172.3
56	122.7	100.3	140.3

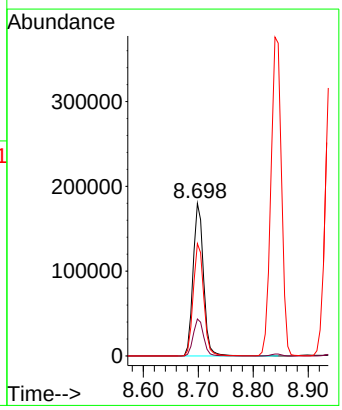


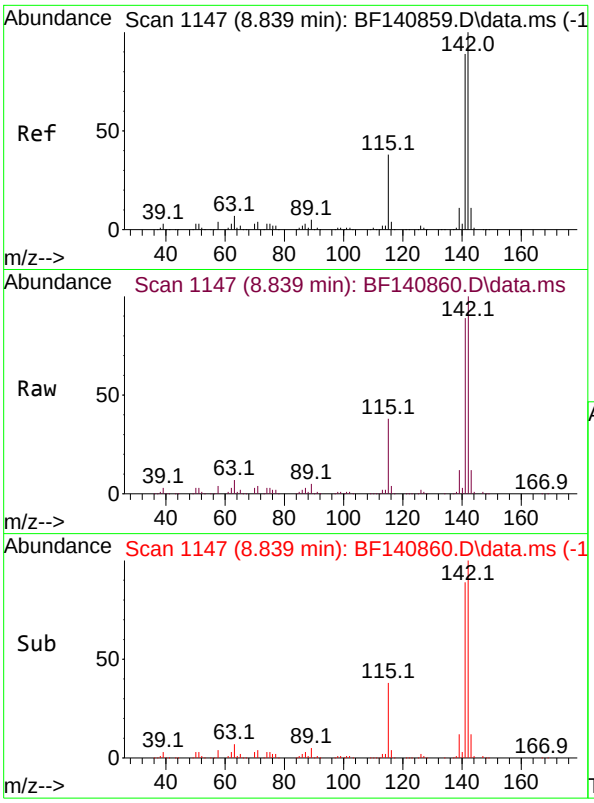


#36
4-Chloro-3-methylphenol
Concen: 48.512 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:107 Resp: 237414

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.2
142	73.6	60.3	90.5



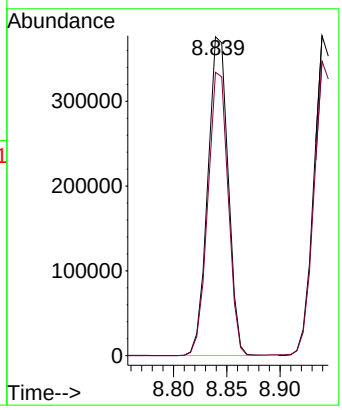


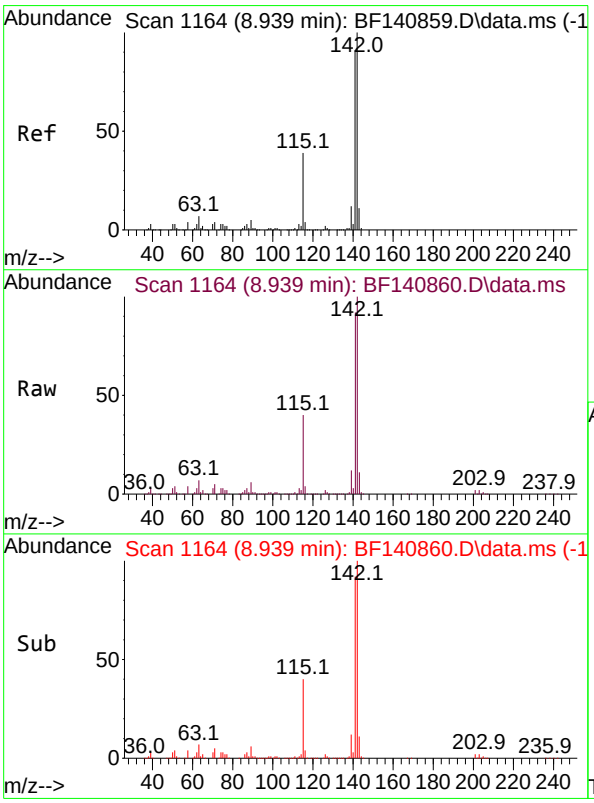
#37
2-Methylnaphthalene
Concen: 48.139 ng
RT: 8.839 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 500202

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.0	106.6

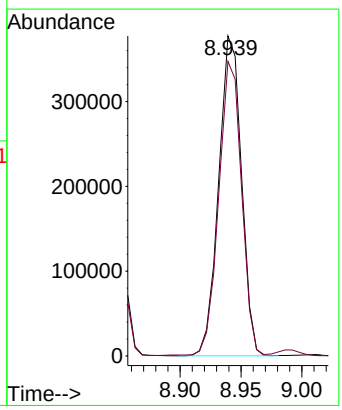


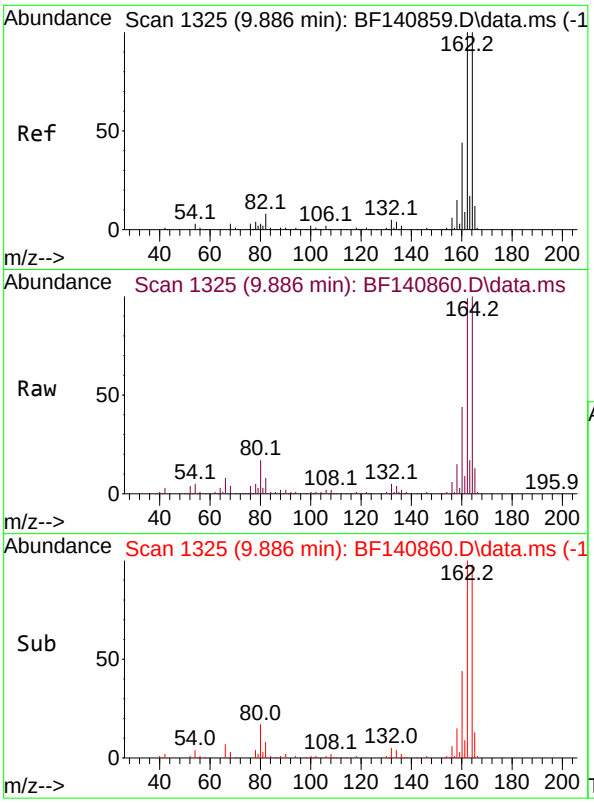


#38
1-Methylnaphthalene
Concen: 47.724 ng
RT: 8.939 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:142 Resp: 490420

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.4	110.0



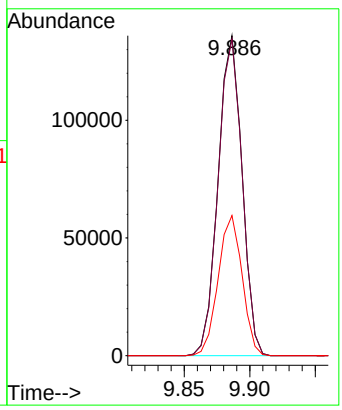


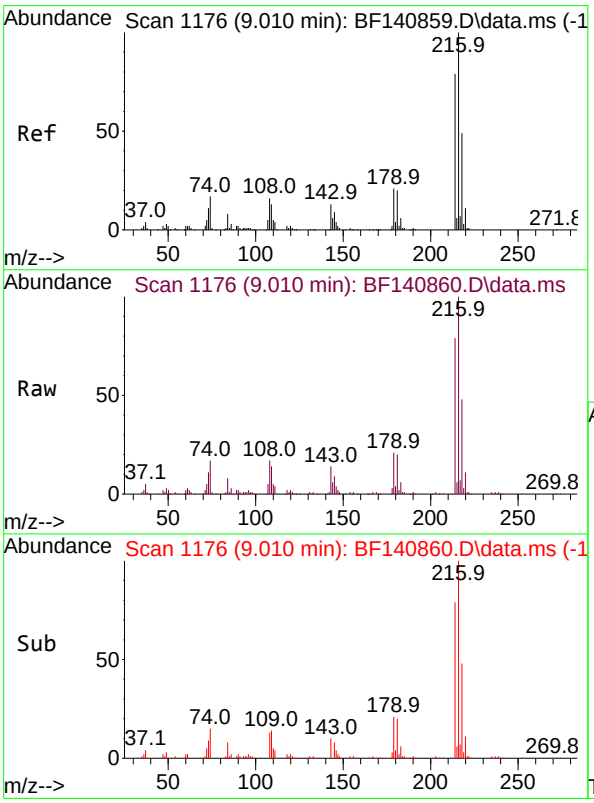
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 172713

Ion	Ratio	Lower	Upper
164	100		
162	98.9	79.9	119.9
160	43.8	35.2	52.8

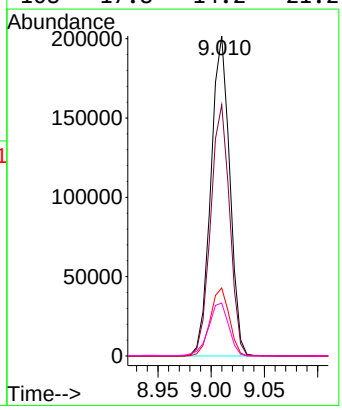


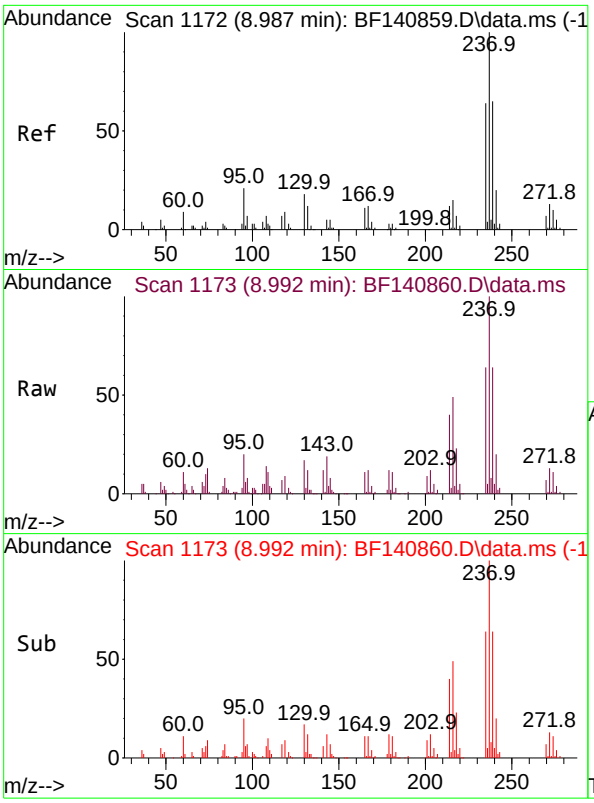


#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.837 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:216 Resp: 248636

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.6	95.4
179	21.4	17.0	25.4
108	17.8	14.2	21.2



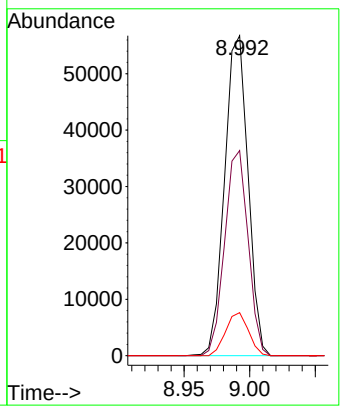


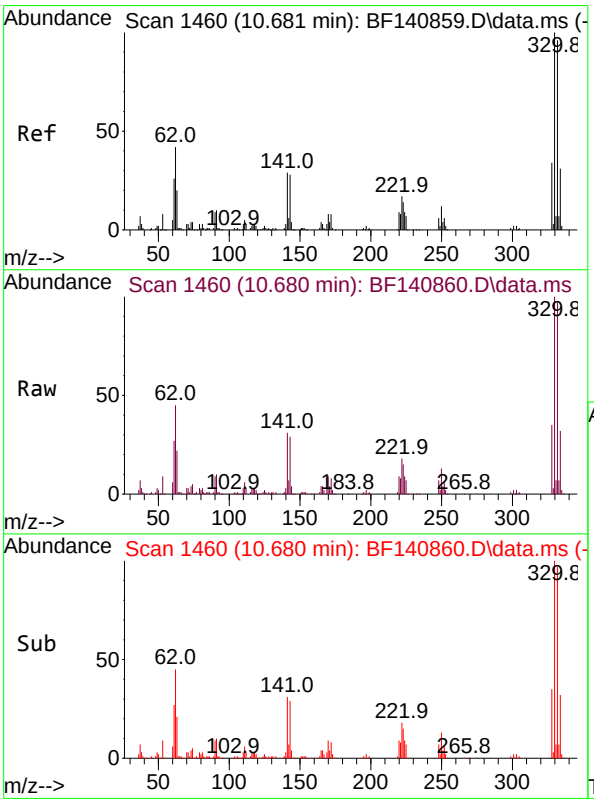
#41
Hexachlorocyclopentadiene
Concen: 50.029 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 70543

Ion	Ratio	Lower	Upper
237	100		
235	64.1	43.7	83.7
272	13.5	0.0	32.9

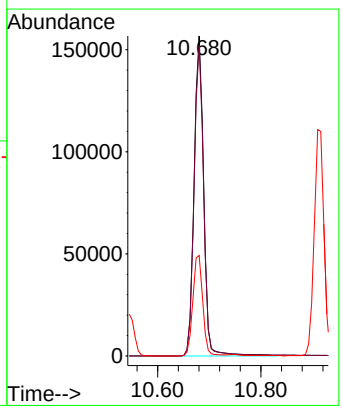


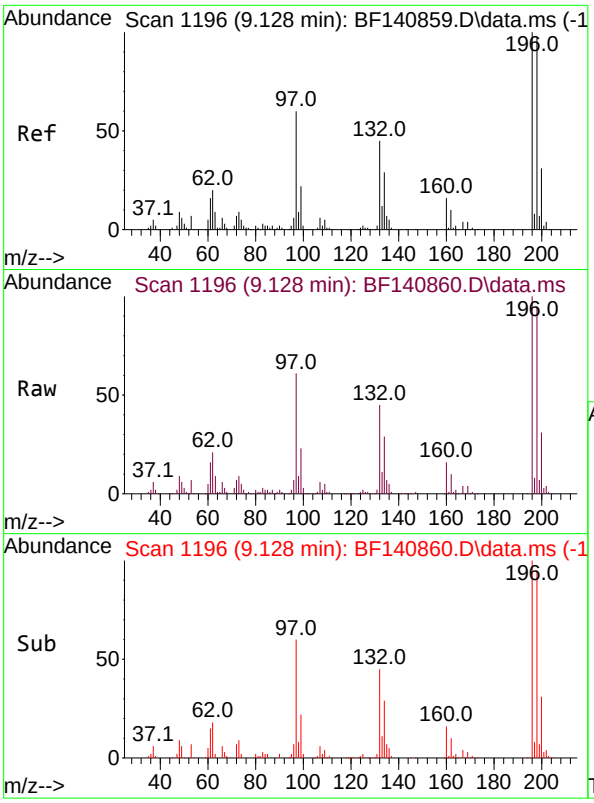


#42
2,4,6-Tribromophenol
Concen: 99.228 ng
RT: 10.680 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:330 Resp: 202693

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.2	114.4
141	32.4	24.9	37.3



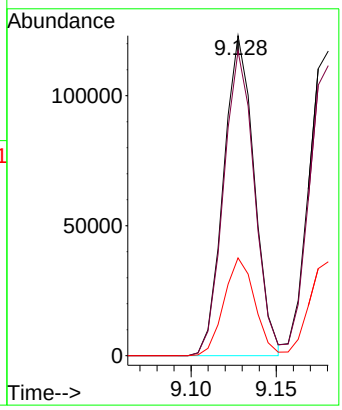


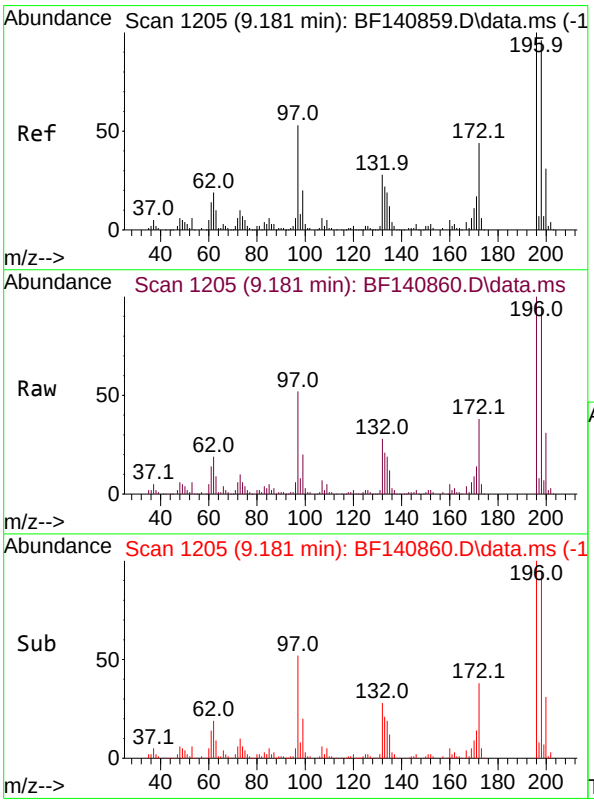
#43
2,4,6-Trichlorophenol
Concen: 47.487 ng
RT: 9.128 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 154361

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.4	116.0
200	30.5	24.5	36.7

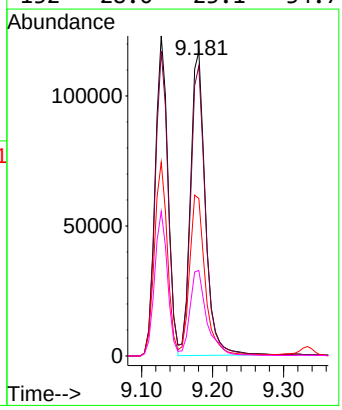


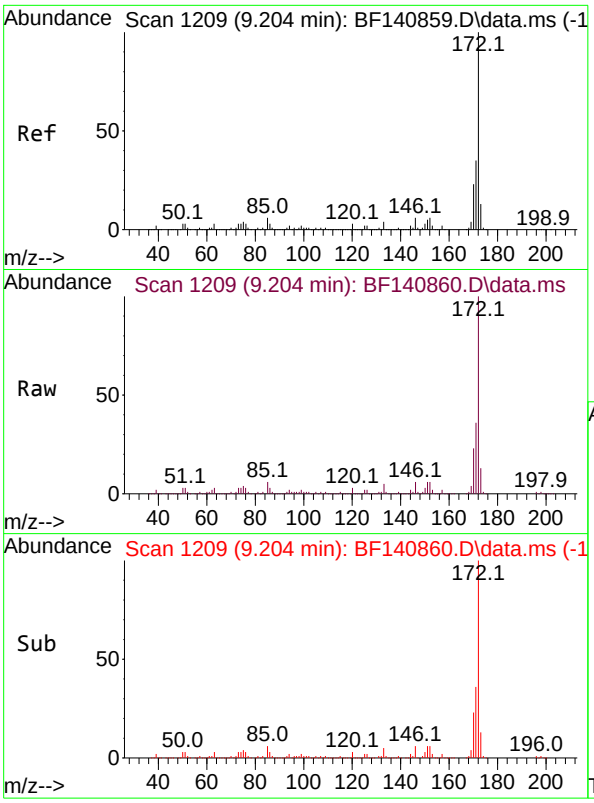


#44
2,4,5-Trichlorophenol
Concen: 47.697 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:196 Resp: 170411

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.2	115.8
97	51.7	42.2	63.4
132	28.0	23.1	34.7



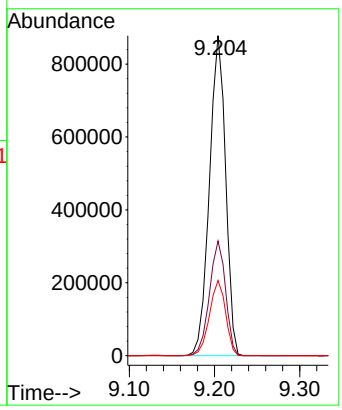


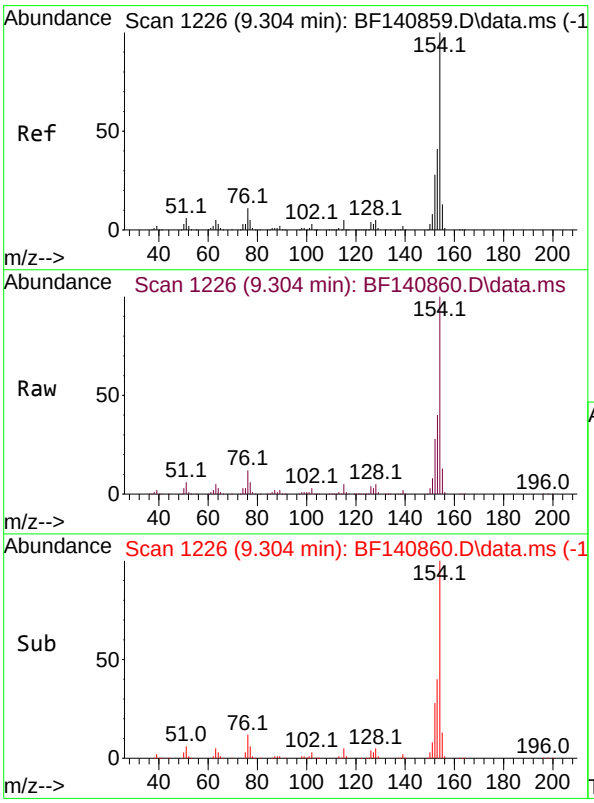
#45
2-Fluorobiphenyl
Concen: 92.444 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 1161315

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.4	42.6
170	23.5	18.6	28.0

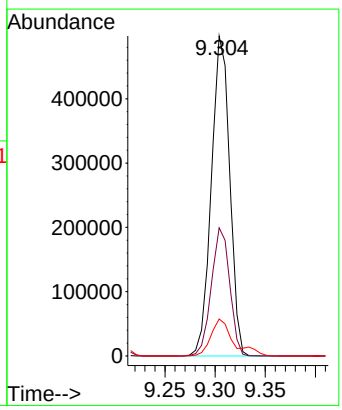


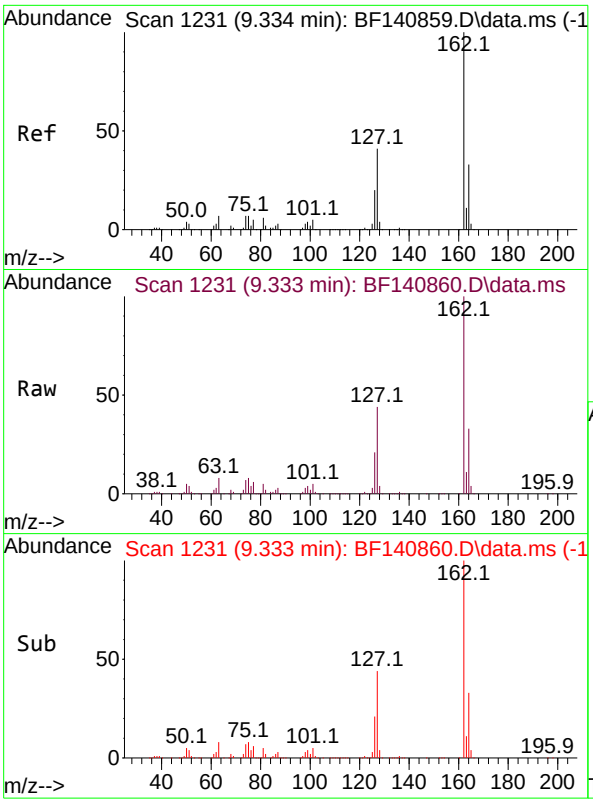


#46
1,1'-Biphenyl
Concen: 46.001 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:154 Resp: 631768

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.8	60.8
76	11.5	0.0	31.0



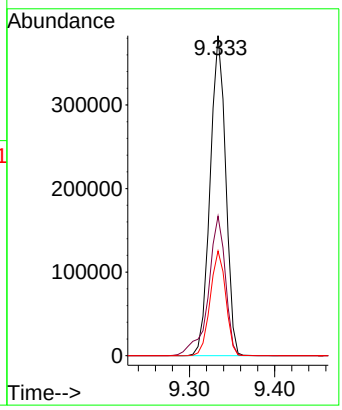


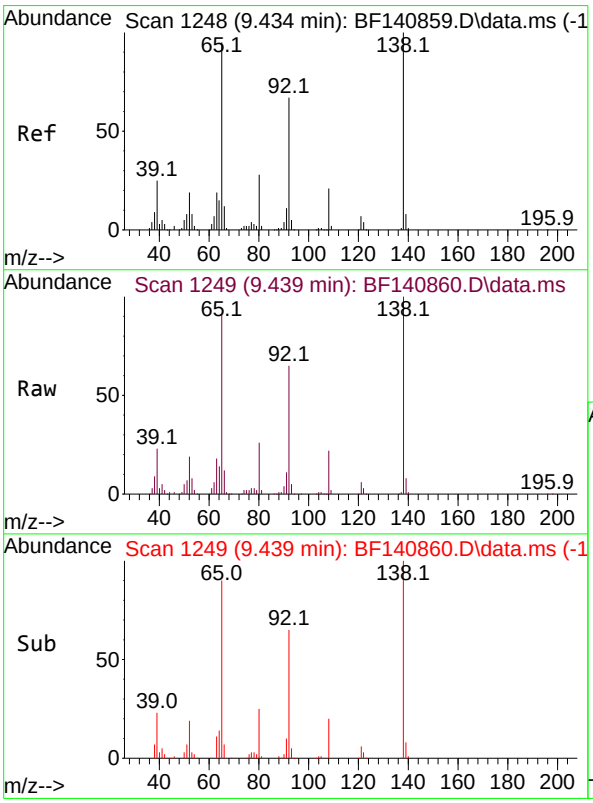
#47
2-Chloronaphthalene
Concen: 46.194 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 485339

Ion	Ratio	Lower	Upper
162	100		
127	43.6	33.5	50.3
164	32.7	26.2	39.2

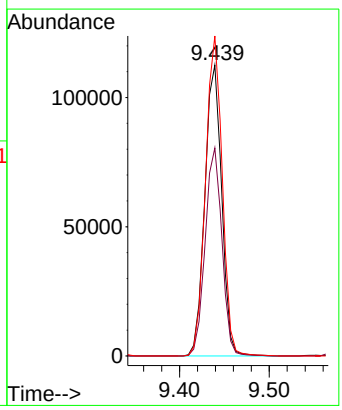


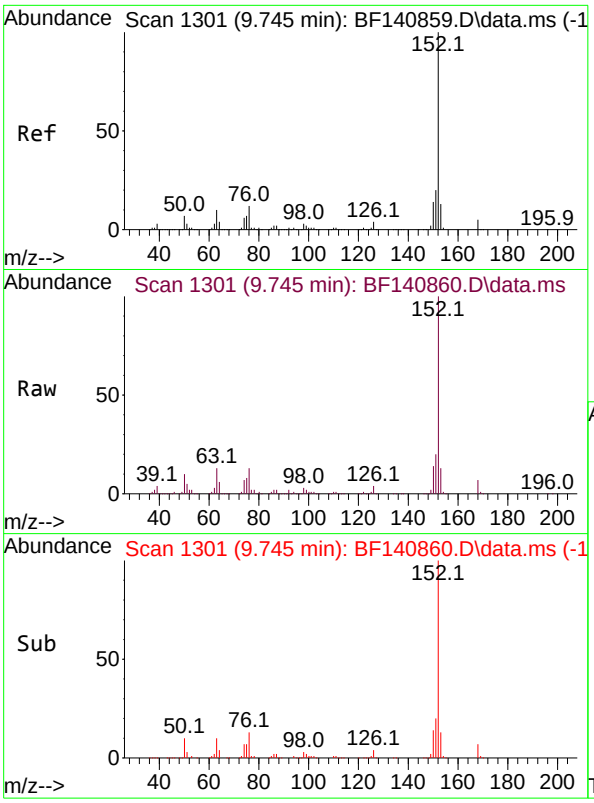


#48
2-Nitroaniline
Concen: 46.359 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion: 65 Resp: 147104

Ion	Ratio	Lower	Upper
65	100		
92	71.5	56.3	84.5
138	110.0	83.8	125.6



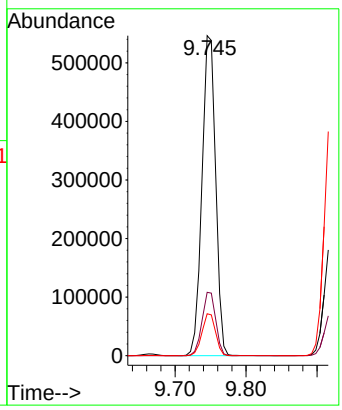


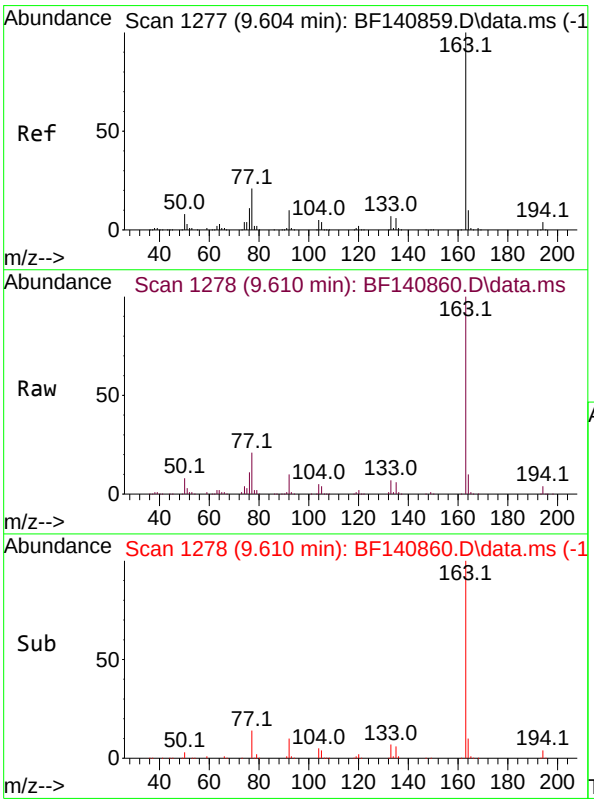
#49
Acenaphthylene
Concen: 47.437 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 732431

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.1	10.6	16.0

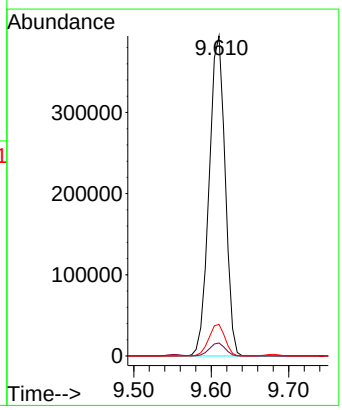


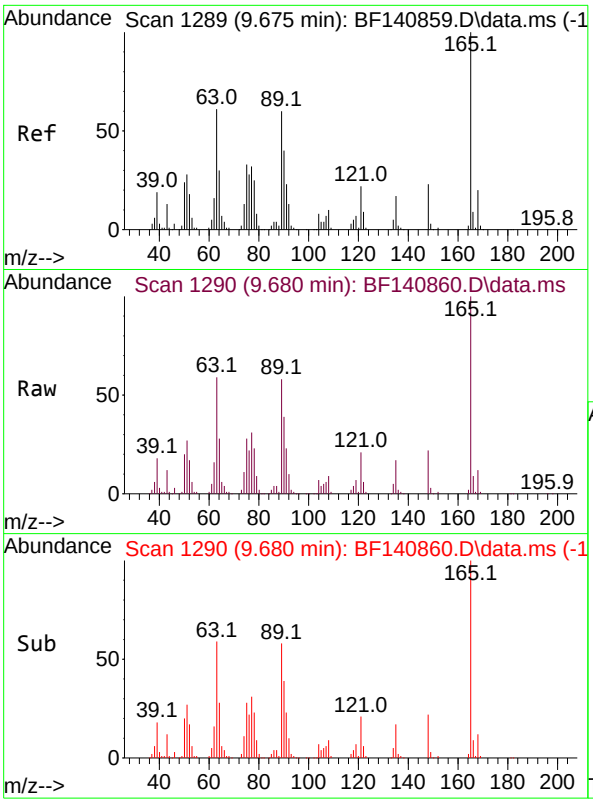


#50
Dimethylphthalate
Concen: 46.392 ng
RT: 9.610 min Scan# 1278
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:163 Resp: 564903

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	9.9	8.1	12.1



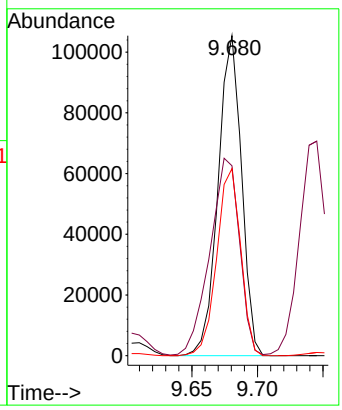


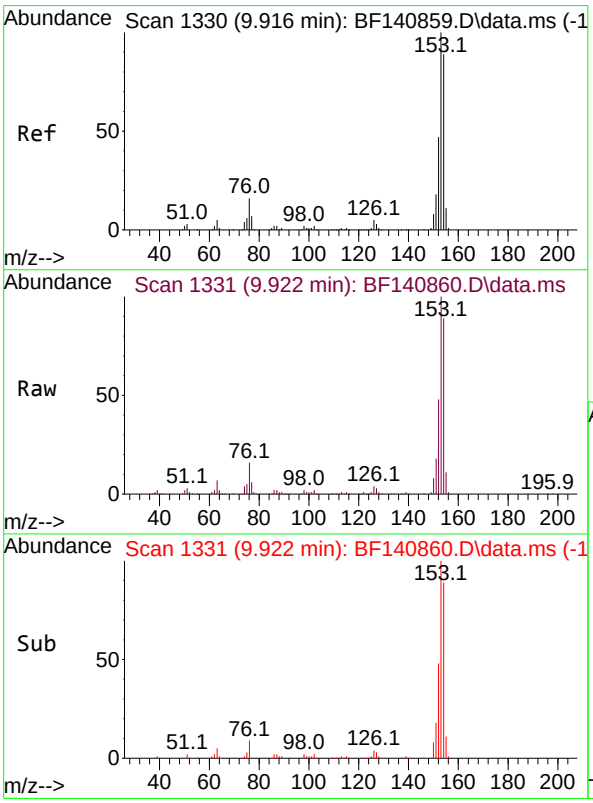
#51
2,6-Dinitrotoluene
Concen: 47.039 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 130941

Ion	Ratio	Lower	Upper
165	100		
63	59.4	49.7	74.5
89	58.5	48.2	72.4

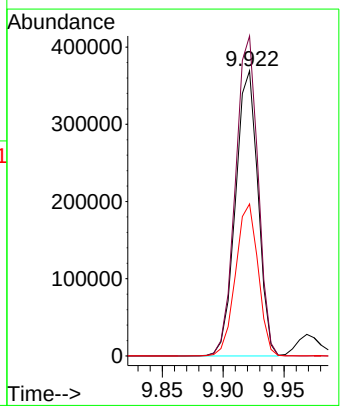


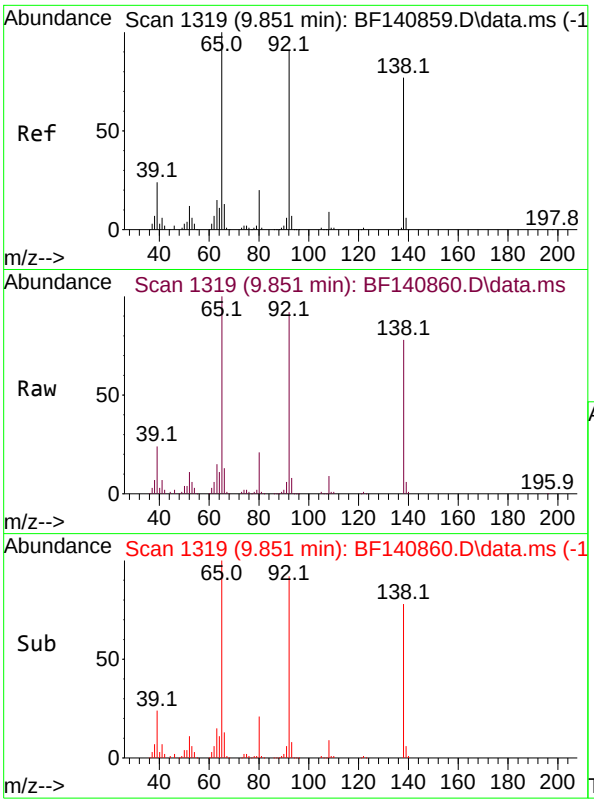


#52
Acenaphthene
Concen: 48.175 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:154 Resp: 475150

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.9	134.9
152	53.3	42.6	63.8



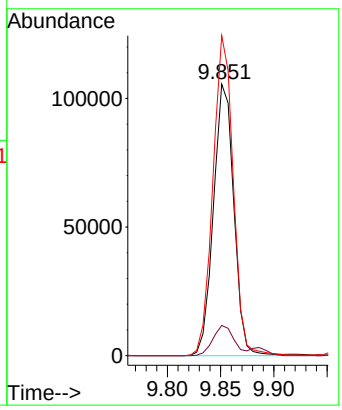


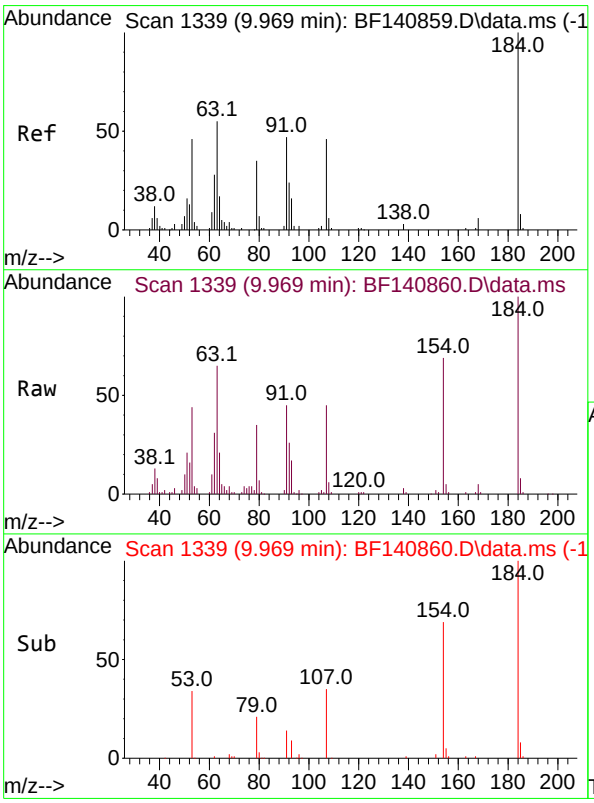
#53
3-Nitroaniline
Concen: 50.732 ng
RT: 9.851 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 140148

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	117.8	95.5	143.3

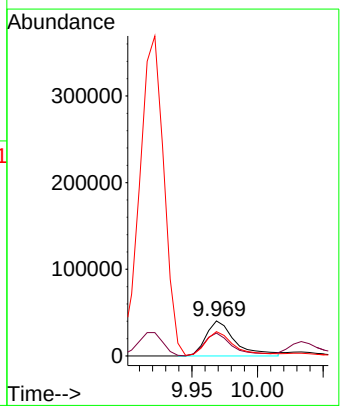


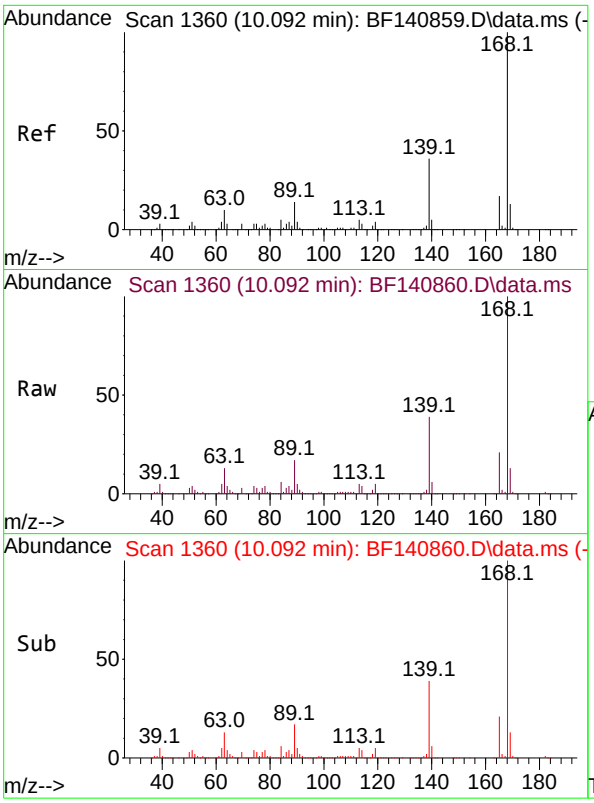


#54
2,4-Dinitrophenol
Concen: 48.955 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:184 Resp: 62738

Ion	Ratio	Lower	Upper
184	100		
63	65.4	51.6	77.4
154	69.1	56.1	84.1



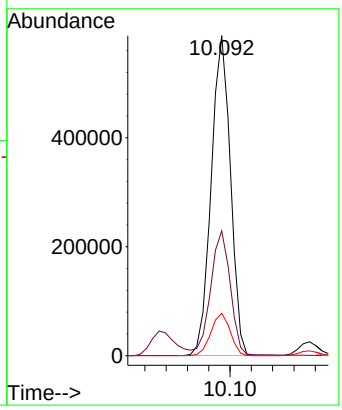


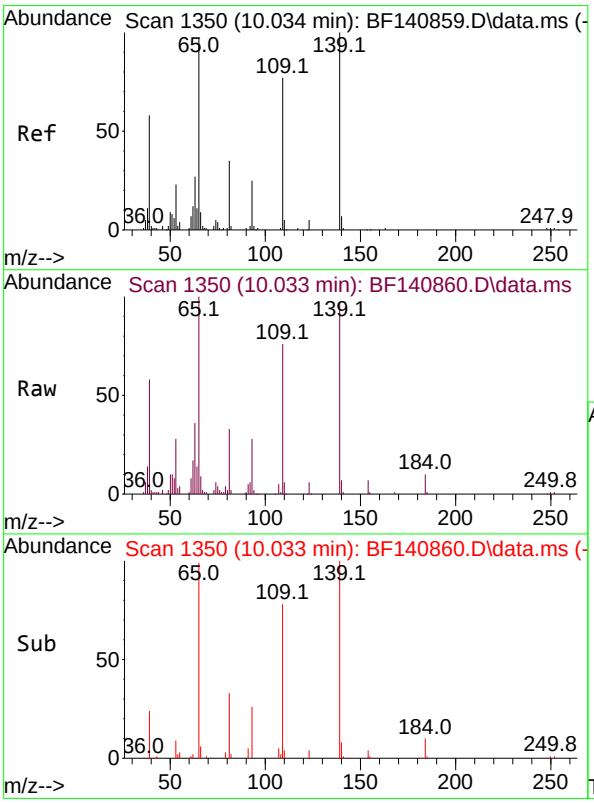
#55
Dibenzofuran
Concen: 48.174 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 736252

Ion	Ratio	Lower	Upper
168	100		
139	39.0	31.1	46.7
169	13.2	10.6	16.0

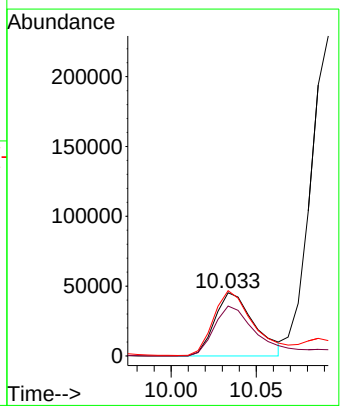


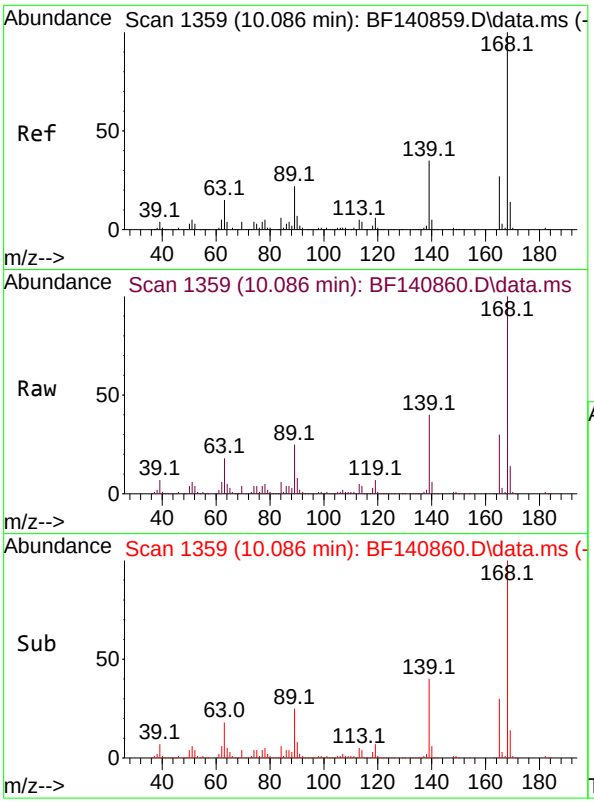


#56
4-Nitrophenol
Concen: 50.818 ng
RT: 10.033 min Scan# 1350
Delta R.T. -0.001 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:139 Resp: 72965

Ion	Ratio	Lower	Upper
139	100		
109	78.9	56.7	96.7
65	103.3	78.1	118.1



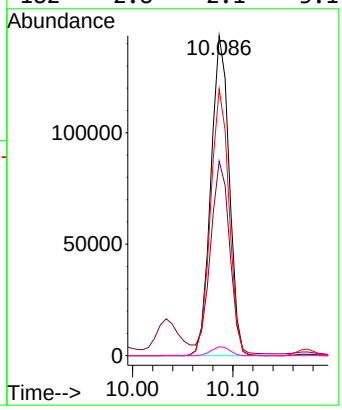


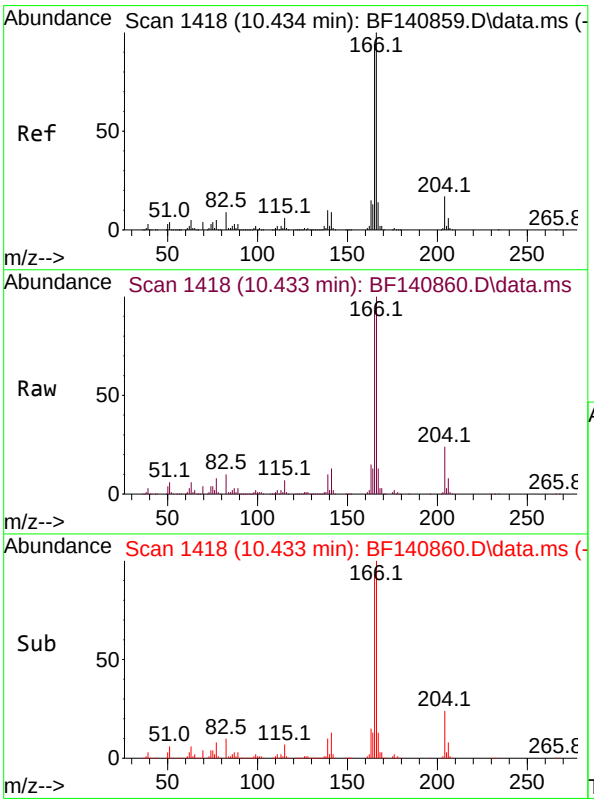
#57
2,4-Dinitrotoluene
Concen: 49.679 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 181952

Ion	Ratio	Lower	Upper
165	100		
63	60.8	49.3	73.9
89	83.4	66.2	99.4
182	2.8	2.1	3.1

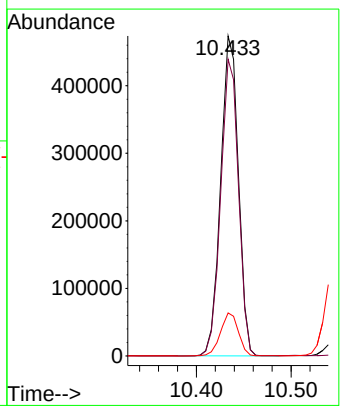


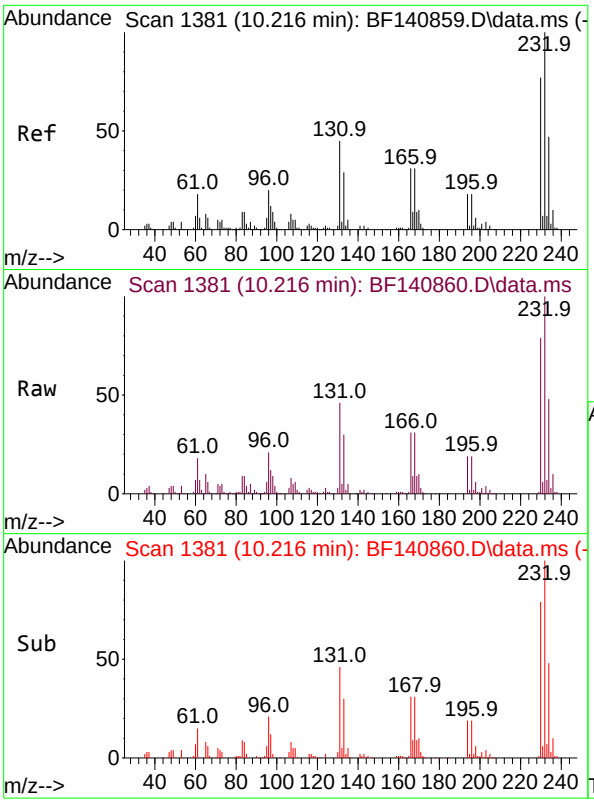


#58
Fluorene
Concen: 48.940 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:166 Resp: 617054

Ion	Ratio	Lower	Upper
166	100		
165	92.7	75.1	112.7
167	13.4	11.1	16.7



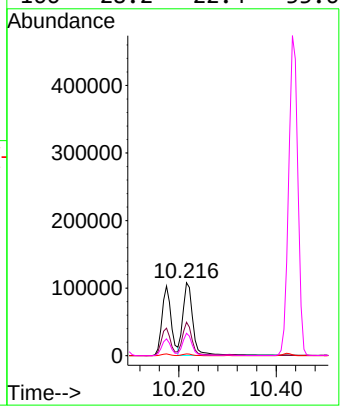


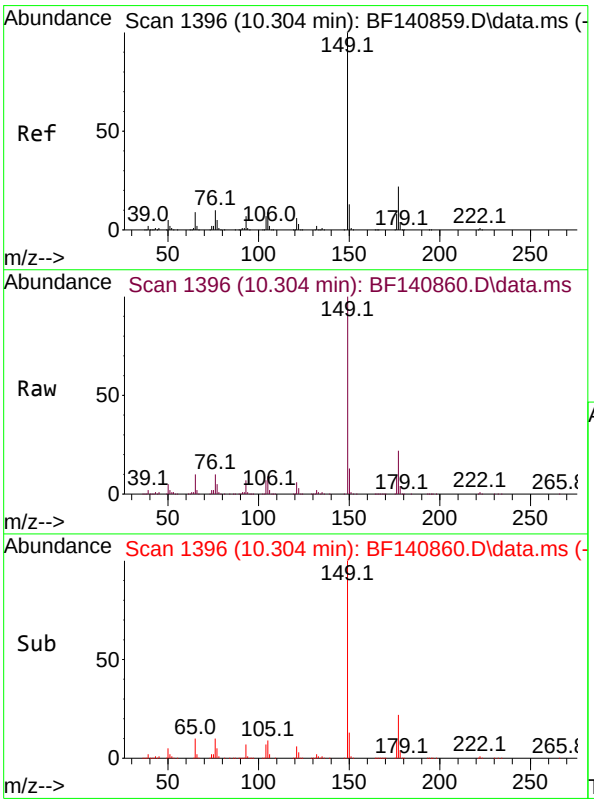
#59
2,3,4,6-Tetrachlorophenol
Concen: 52.784 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 153671

Ion	Ratio	Lower	Upper
232	100		
131	44.3	35.1	52.7
130	2.4	1.8	2.8
166	28.2	22.4	33.6

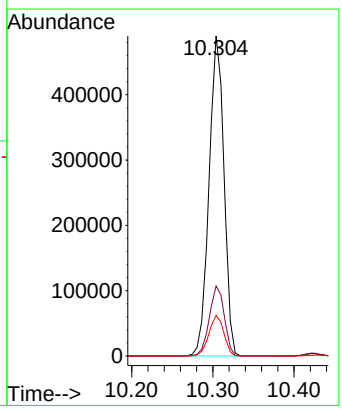


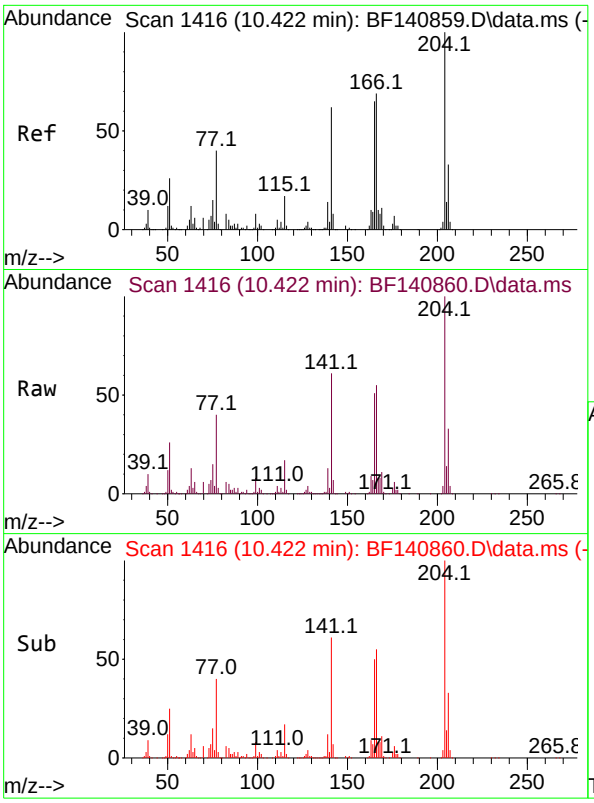


#60
Diethylphthalate
Concen: 49.463 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:149 Resp: 624564

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.2	25.8
150	12.7	10.1	15.1



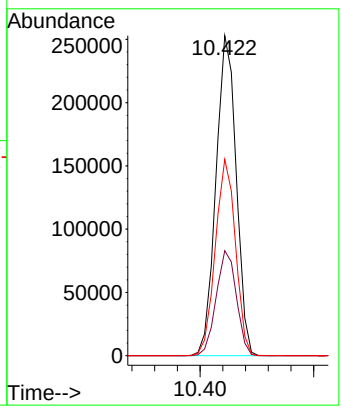


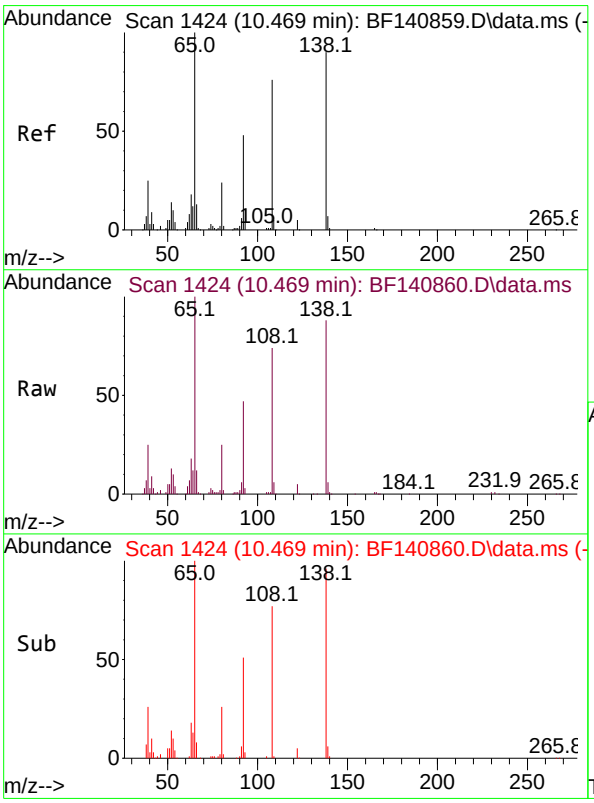
#61
4-Chlorophenyl-phenylether
Concen: 49.574 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 313978

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.5	39.7
141	61.3	50.0	75.0

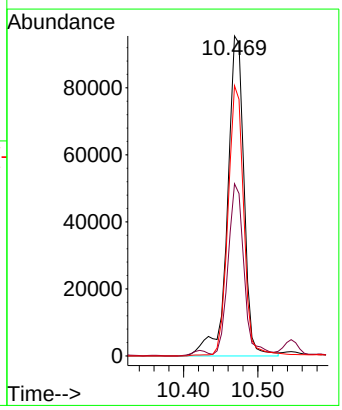


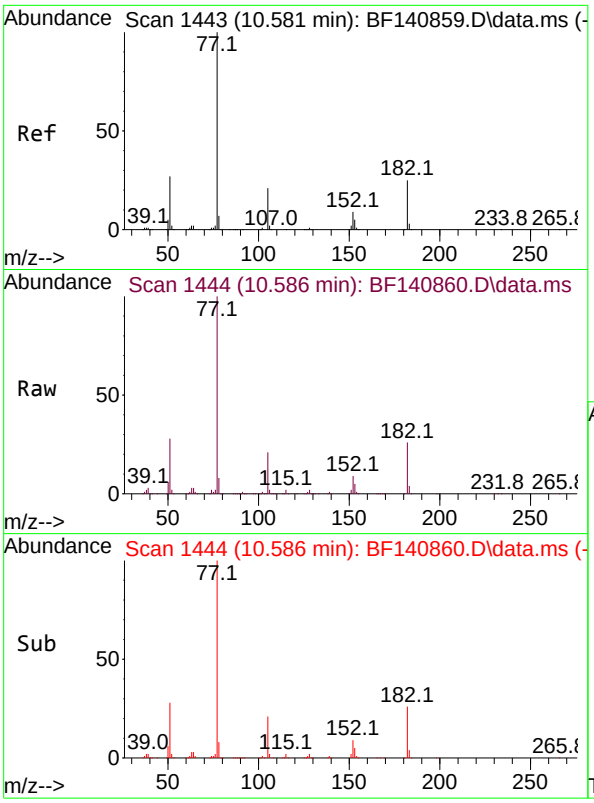


#62
4-Nitroaniline
Concen: 51.356 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:138 Resp: 148255

Ion	Ratio	Lower	Upper
138	100		
92	53.8	32.6	72.6
108	84.4	64.1	104.1



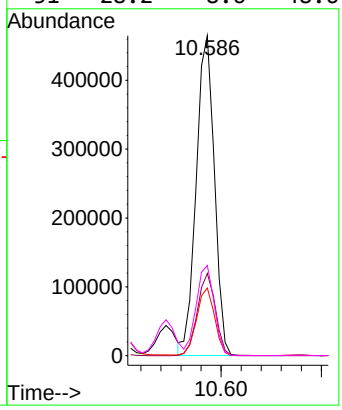


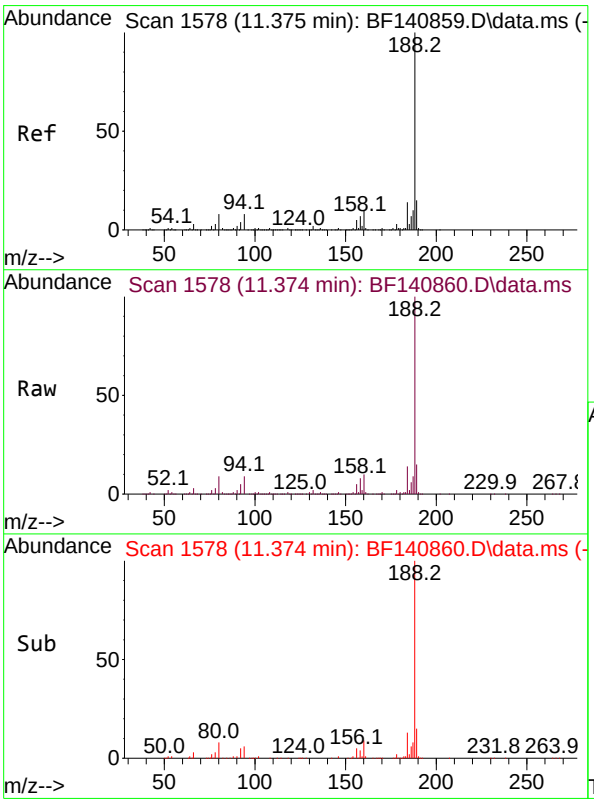
#63
Azobenzene
Concen: 49.412 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 586556

Ion	Ratio	Lower	Upper
77	100		
182	25.7	4.5	44.5
105	21.1	0.9	40.9
51	28.2	8.6	48.6

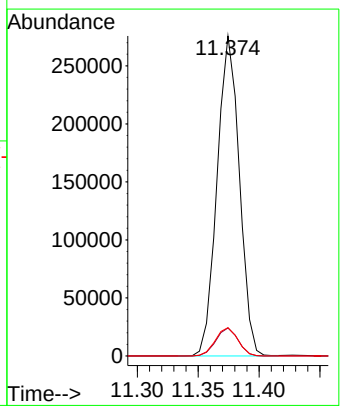


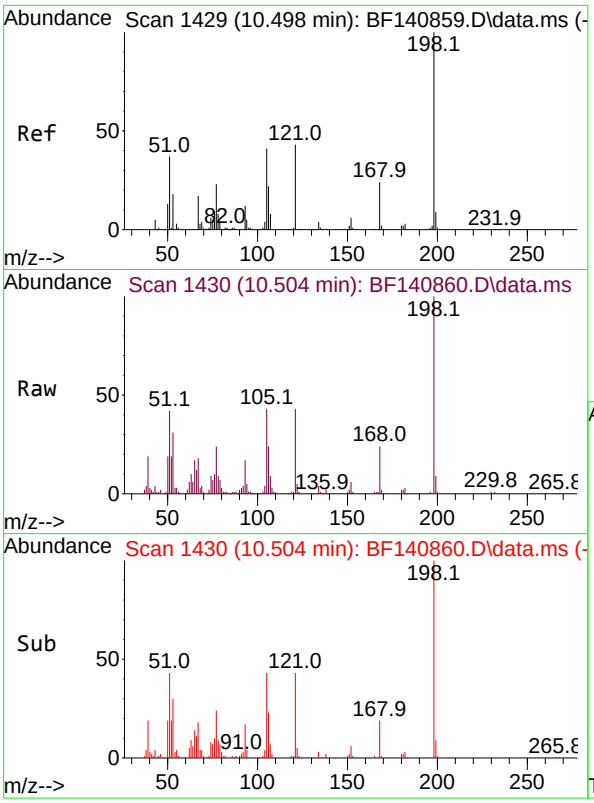


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:188 Resp: 351718

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.4	9.6
80	8.9	6.8	10.2



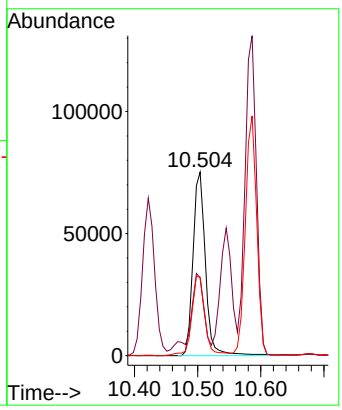


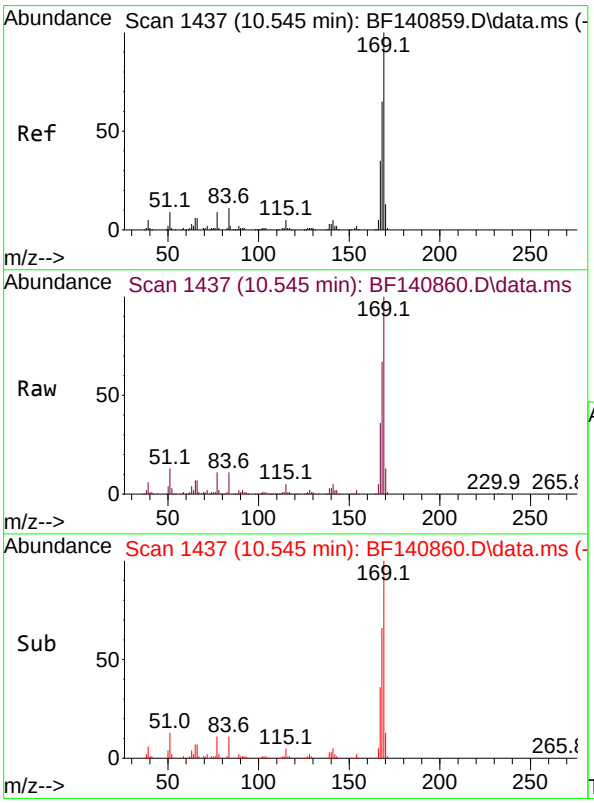
#65
4,6-Dinitro-2-methylphenol
Concen: 51.936 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 103510

Ion	Ratio	Lower	Upper
198	100		
51	42.3	24.4	64.4
105	42.8	22.1	62.1

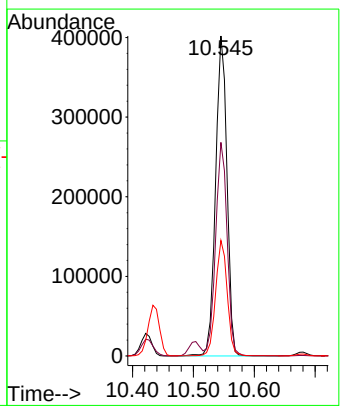


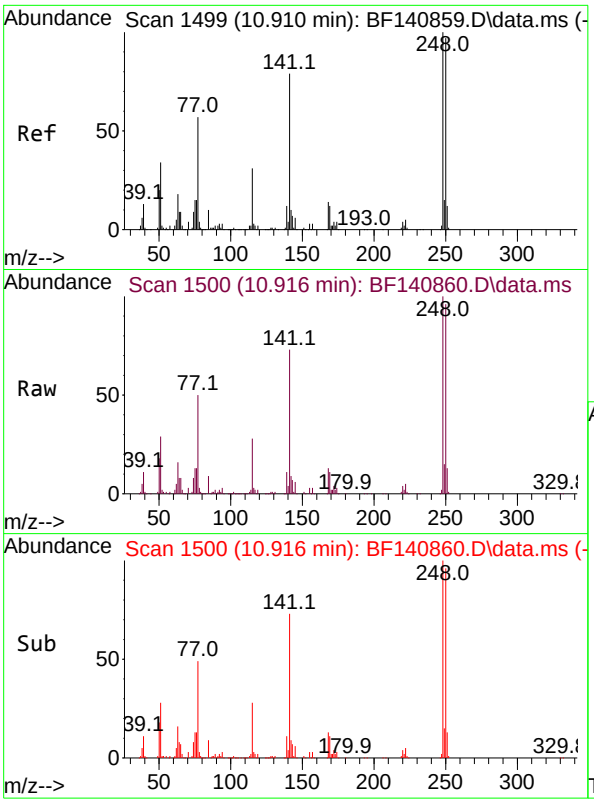


#66
n-Nitrosodiphenylamine
Concen: 48.132 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:169 Resp: 520491

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.4	80.0
167	36.1	28.3	42.5



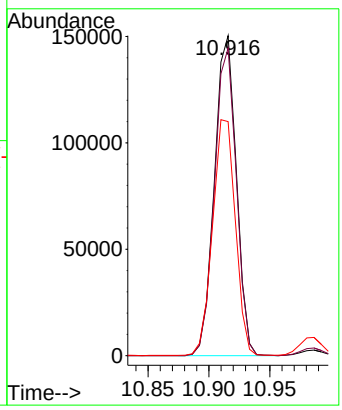


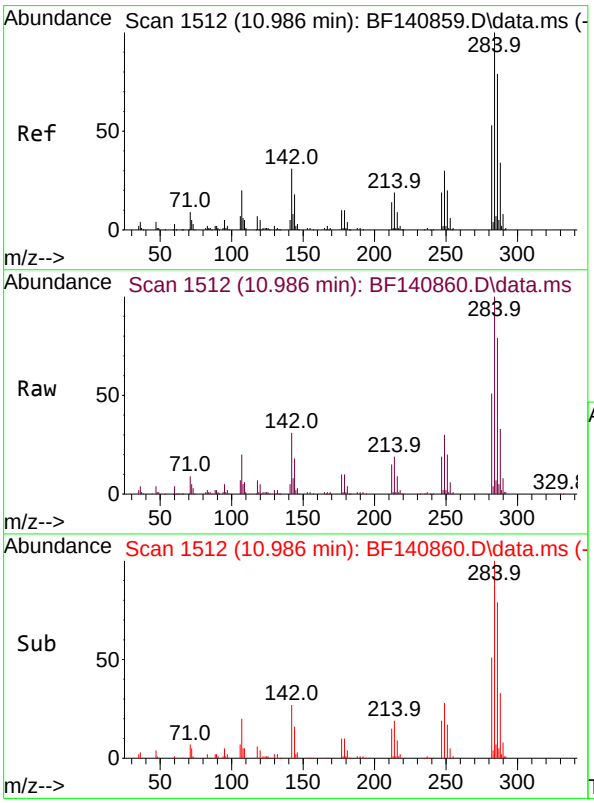
#67
4-Bromophenyl-phenylether
Concen: 47.888 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 188429

Ion	Ratio	Lower	Upper
248	100		
250	96.1	77.4	116.2
141	73.1	62.9	94.3

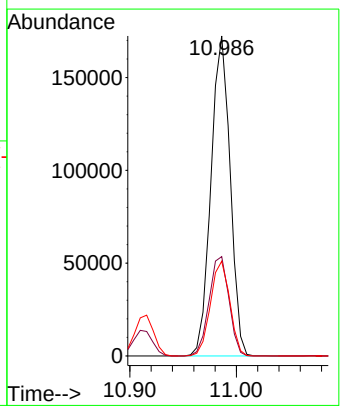


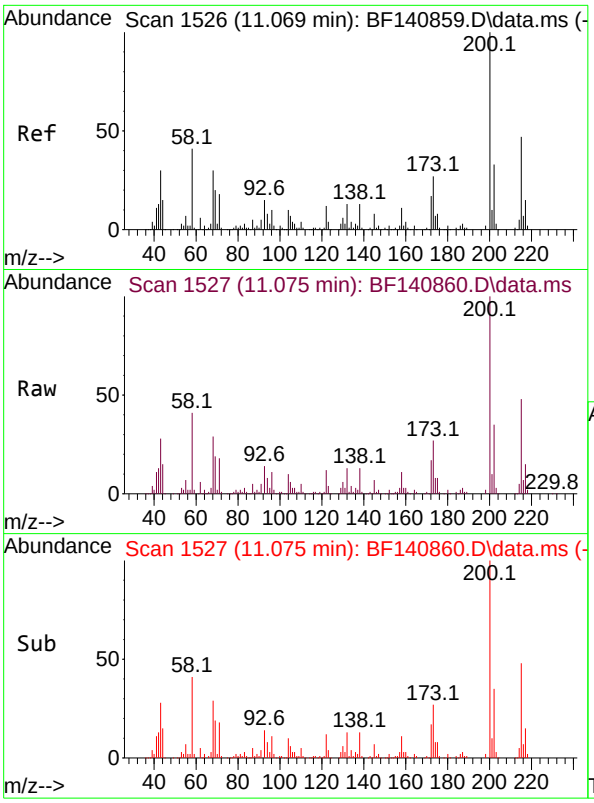


#68
Hexachlorobenzene
Concen: 48.252 ng
RT: 10.986 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:284 Resp: 215259

Ion	Ratio	Lower	Upper
284	100		
142	31.0	24.6	36.8
249	29.6	24.3	36.5



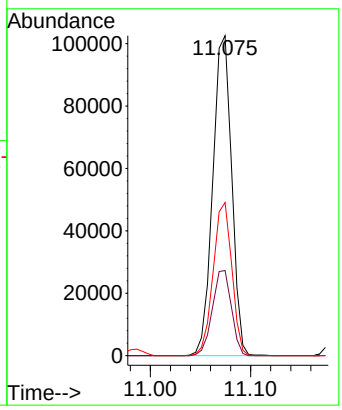


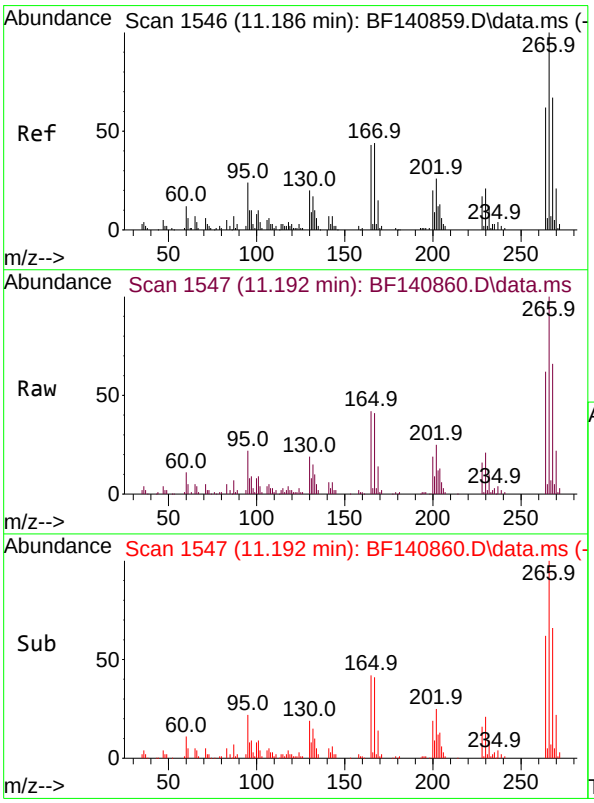
#69
Atrazine
Concen: 44.493 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 134376

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.6	46.6
215	47.8	26.7	66.7

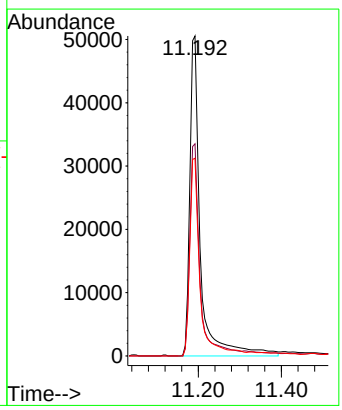


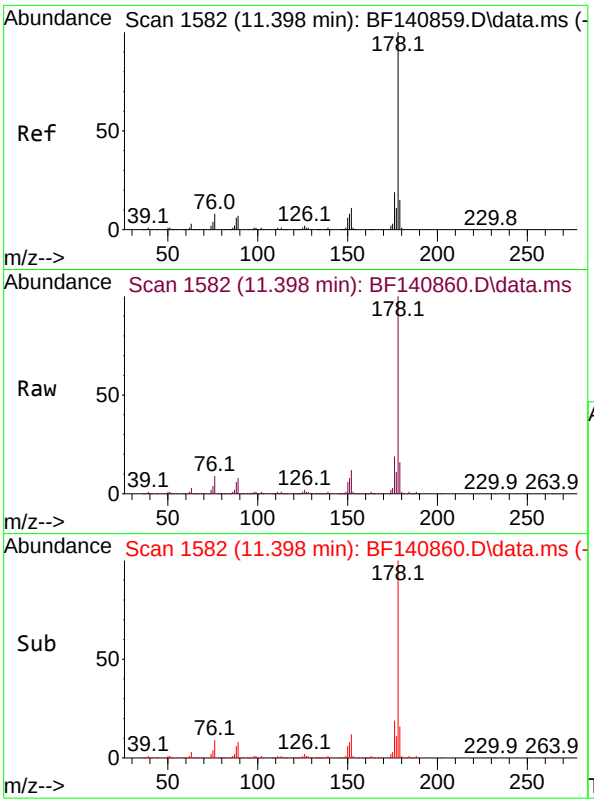


#70
Pentachlorophenol
Concen: 55.046 ng
RT: 11.192 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:266 Resp: 89834

Ion	Ratio	Lower	Upper
266	100		
268	66.3	54.0	81.0
264	61.8	49.4	74.2



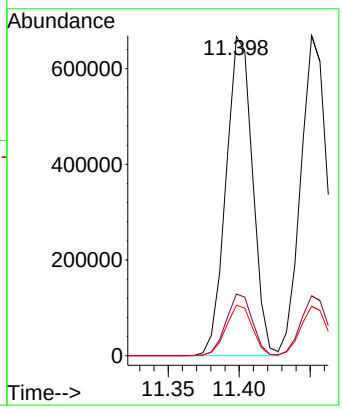


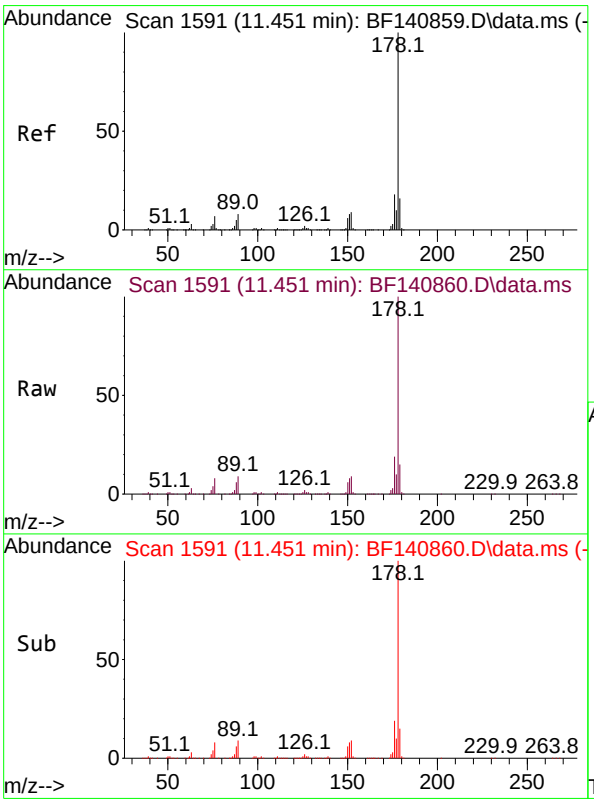
#71
Phenanthrene
Concen: 48.009 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 868333

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.8	12.1	18.1

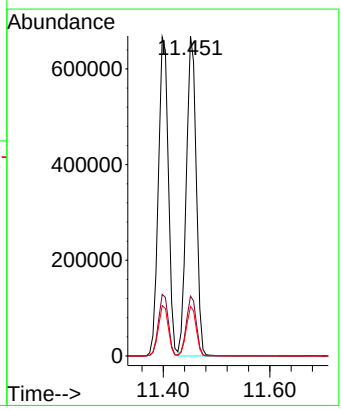


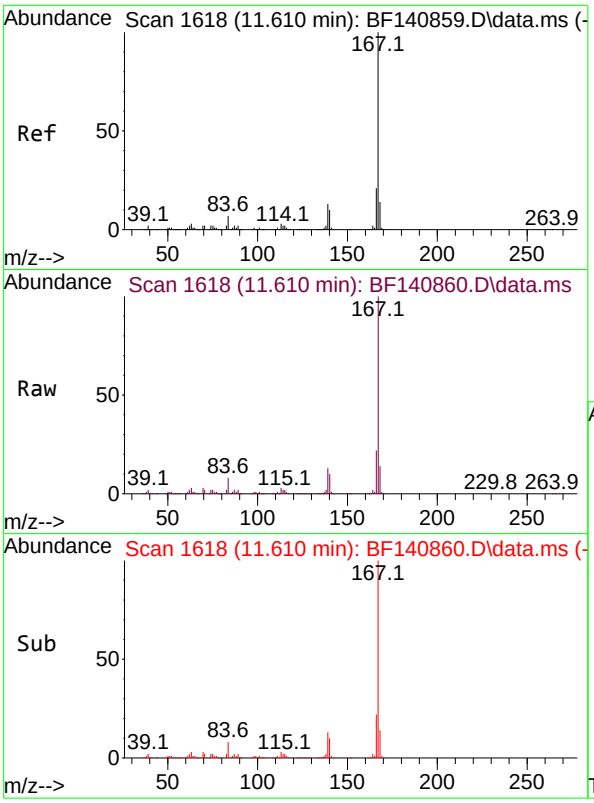


#72
Anthracene
Concen: 48.285 ng
RT: 11.451 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:178 Resp: 860045

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.5	12.6	18.8



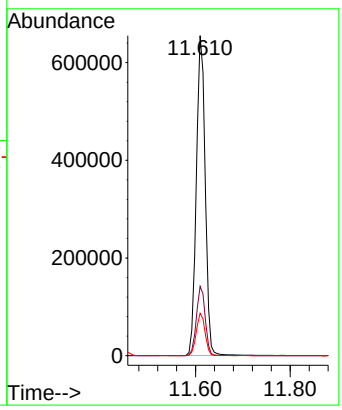


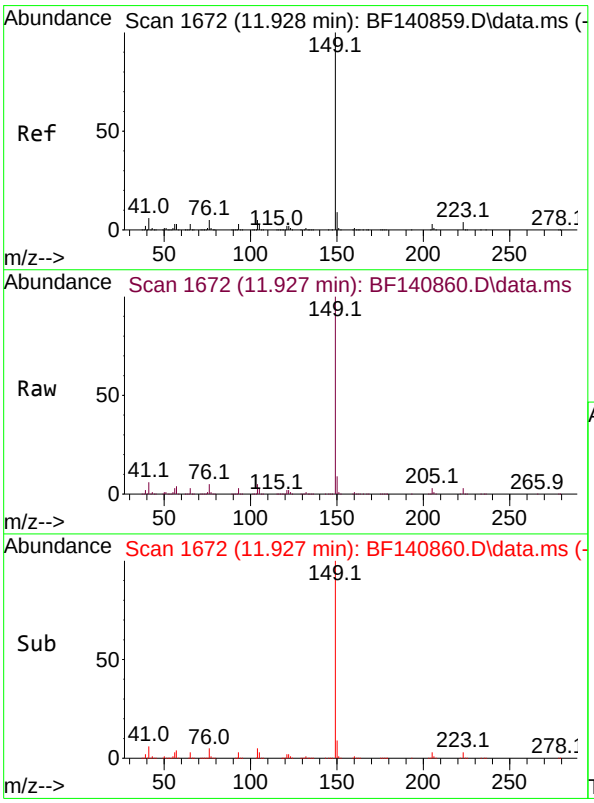
#73
Carbazole
Concen: 48.990 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 854710

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.0	25.6
139	13.3	10.2	15.2

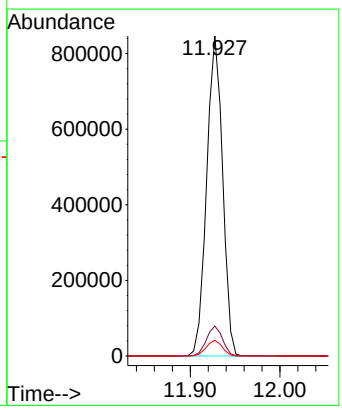


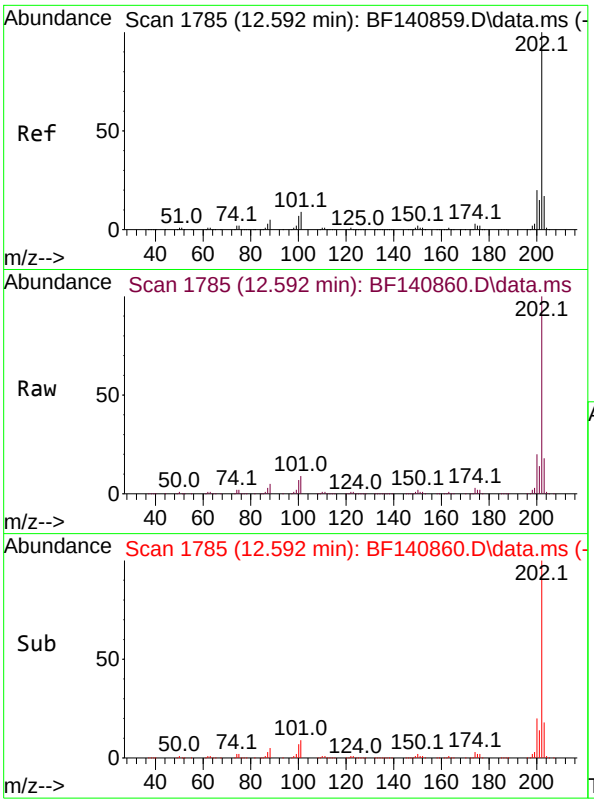


#74
Di-n-butylphthalate
Concen: 50.870 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:149 Resp: 1041587

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.5	11.3
104	4.9	3.8	5.8



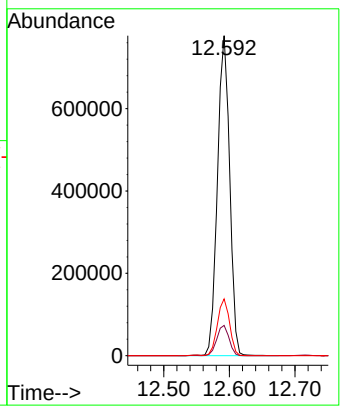


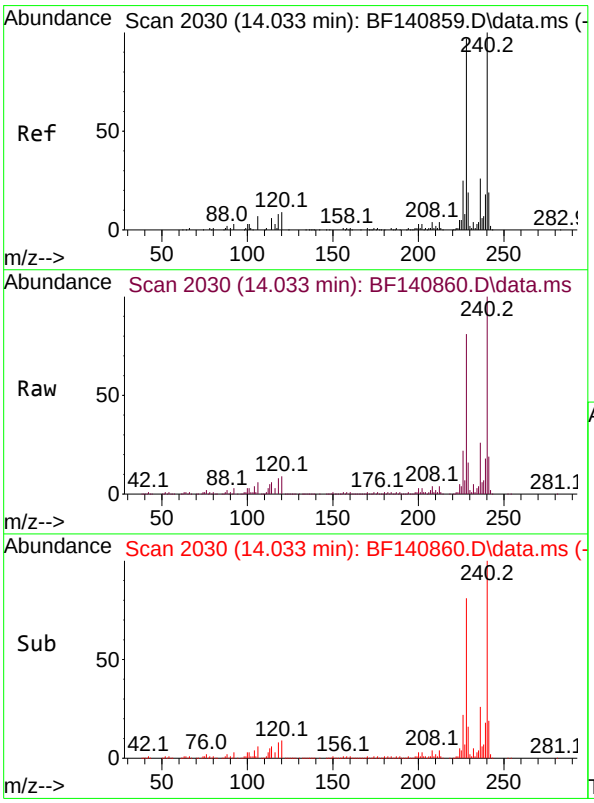
#75
Fluoranthene
Concen: 48.026 ng
RT: 12.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 1000374

Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	29.3
203	17.8	0.0	37.4

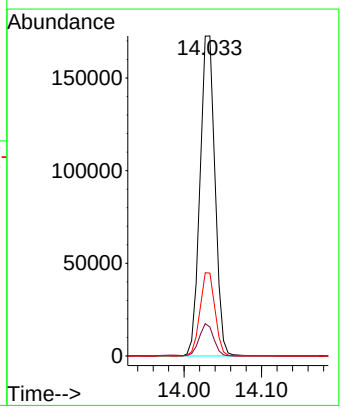


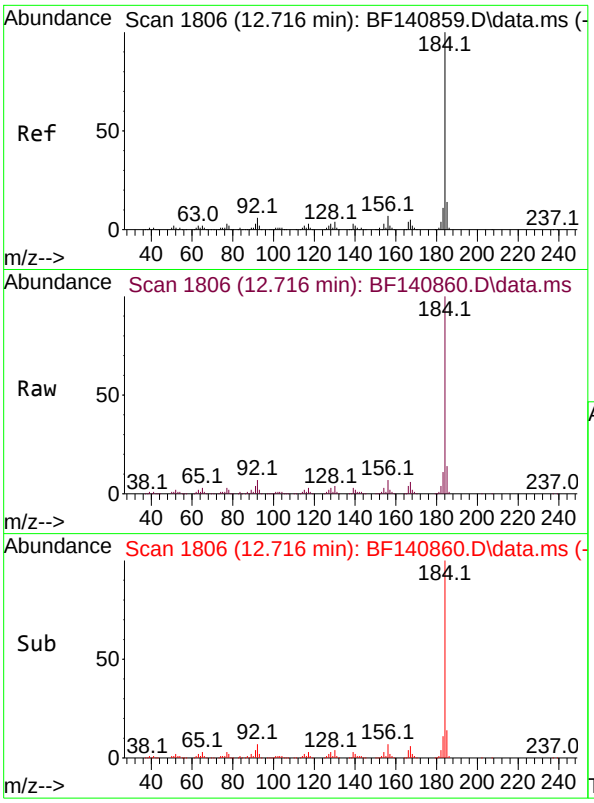


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:240 Resp: 231973

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.6	11.4
236	25.9	20.5	30.7



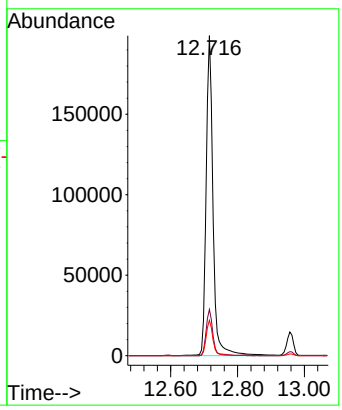


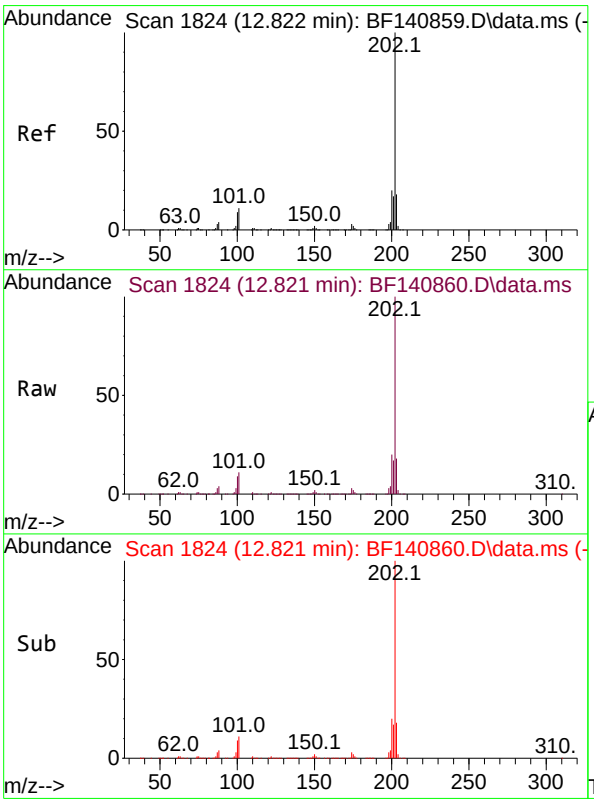
#77
Benzidine
Concen: 60.340 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 285677

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.1	16.7
183	11.1	9.0	13.4

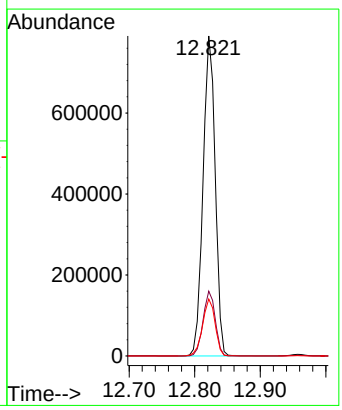


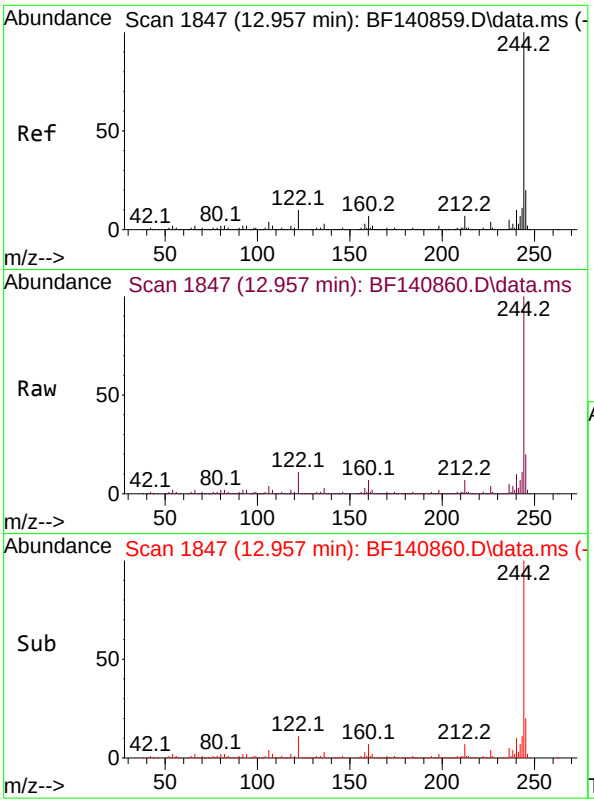


#78
Pyrene
Concen: 49.516 ng
RT: 12.821 min Scan# 1824
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:202 Resp: 1021434

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.1	24.1
203	17.8	14.2	21.4



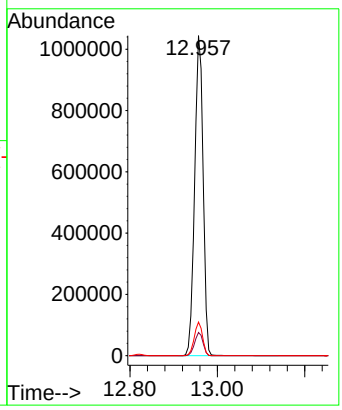


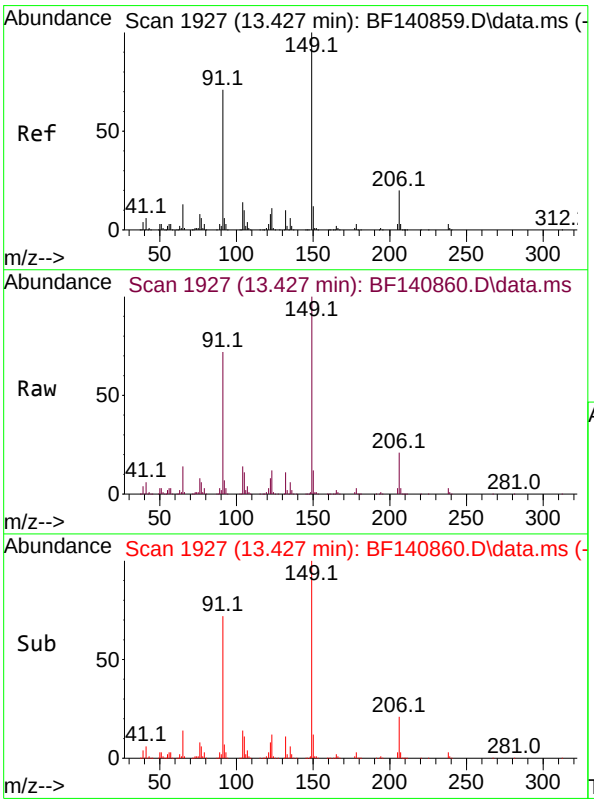
#79
Terphenyl-d14
Concen: 95.545 ng
RT: 12.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 1405567

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.6	8.4
122	10.5	8.2	12.2

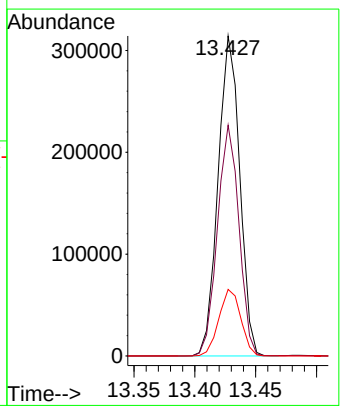


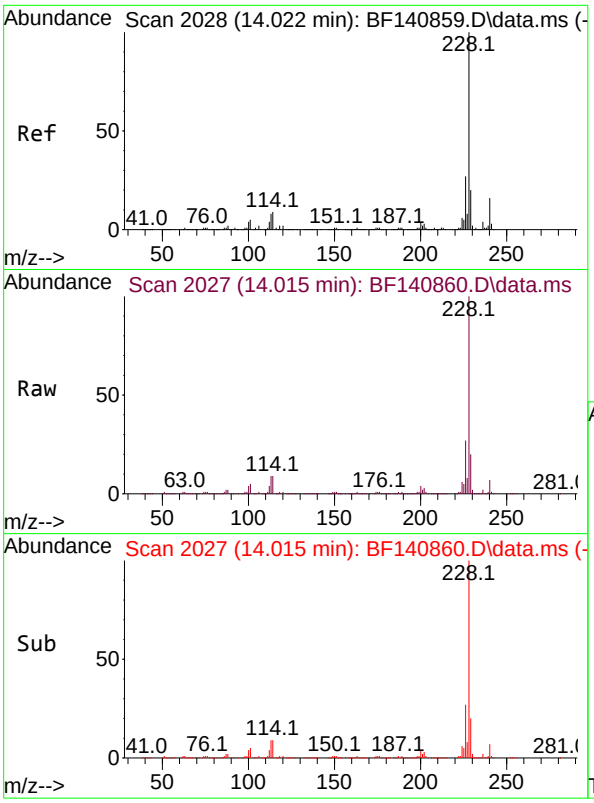


#80
Butylbenzylphthalate
Concen: 51.343 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:149 Resp: 389705

Ion	Ratio	Lower	Upper
149	100		
91	72.1	56.7	85.1
206	20.8	16.4	24.6



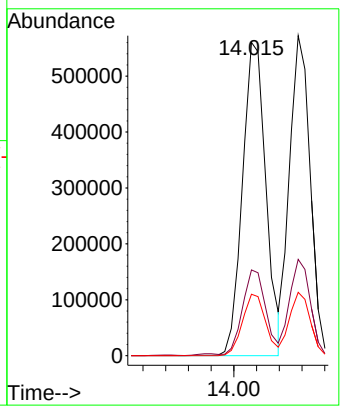


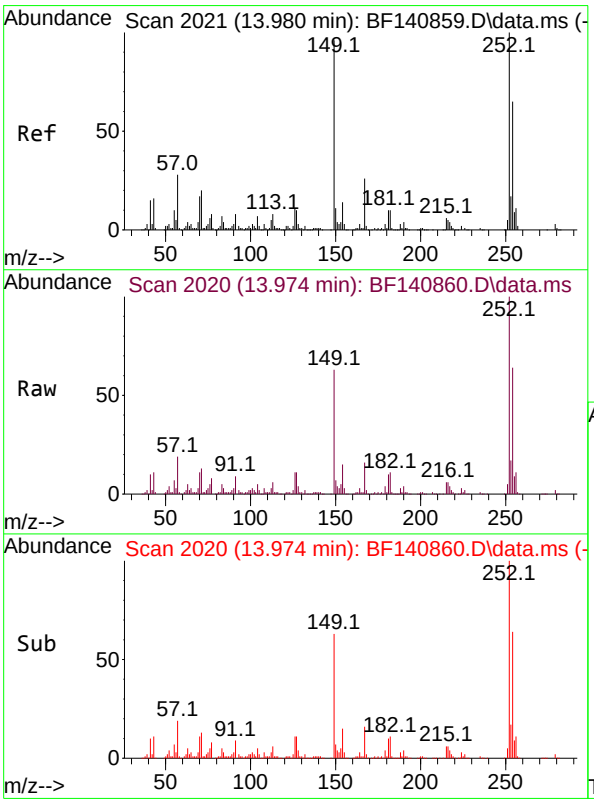
#81
Benzo(a)anthracene
Concen: 48.956 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 804868

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	19.6	15.8	23.8

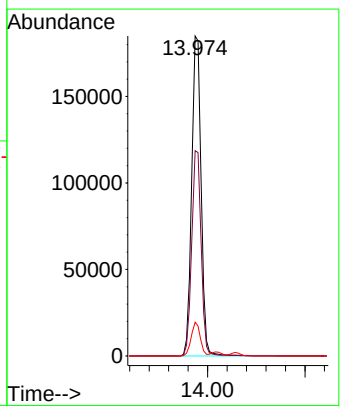


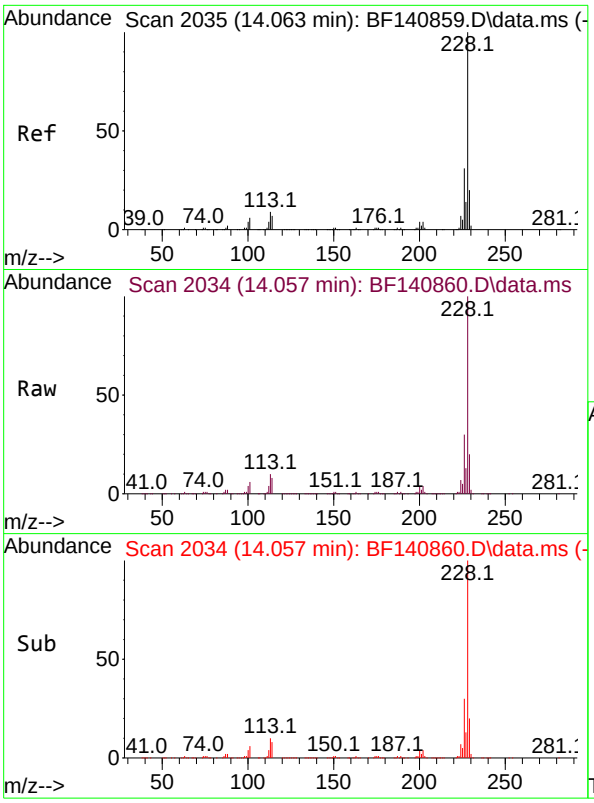


#82
3,3'-Dichlorobenzidine
Concen: 50.470 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:252 Resp: 250344

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.3	78.5
126	10.6	8.4	12.6



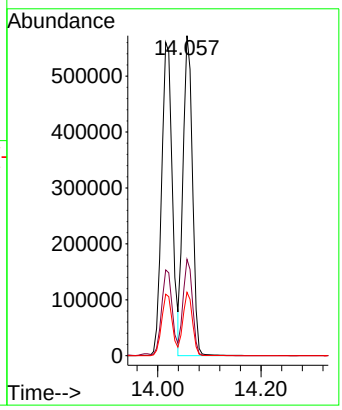


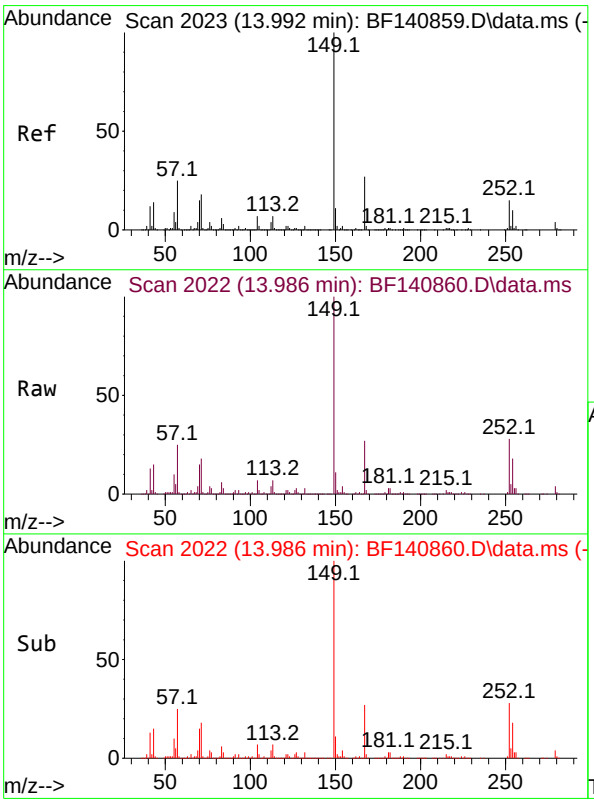
#83
Chrysene
Concen: 48.661 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 727490

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.8	16.0	24.0

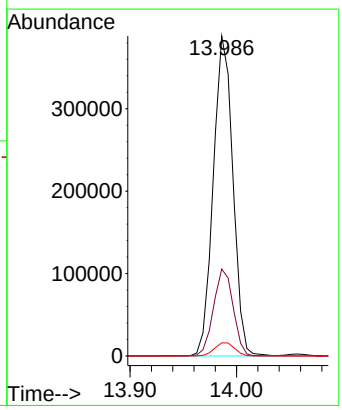


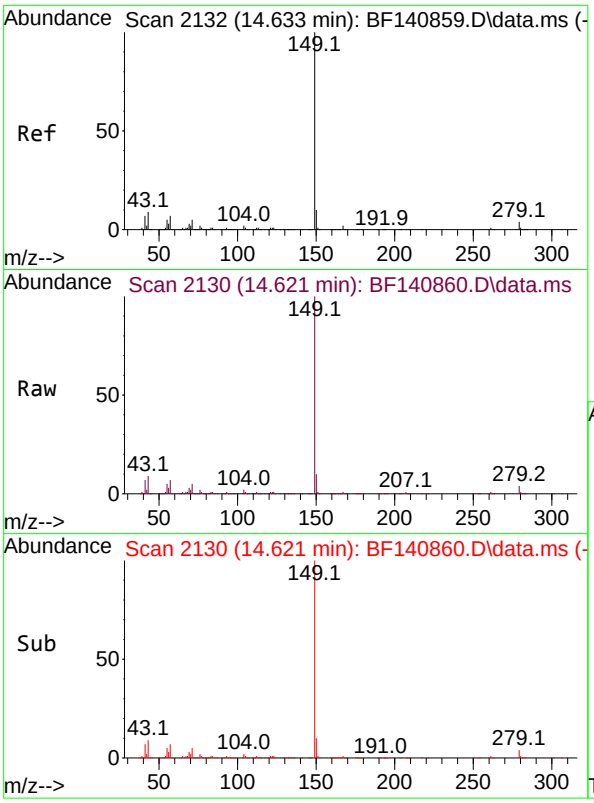


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.642 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:149 Resp: 495633

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.8	32.8
279	4.1	3.5	5.3



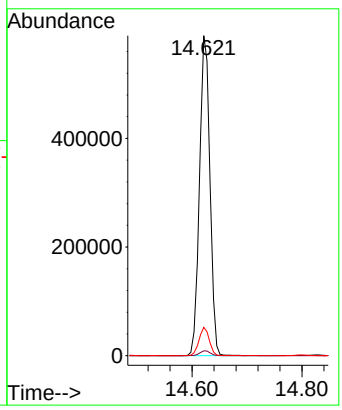


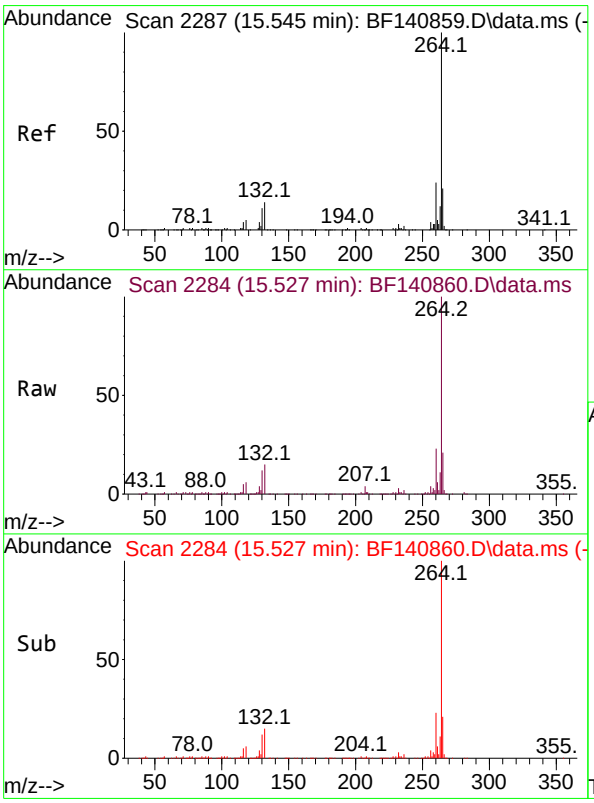
#85
Di-n-octyl phthalate
Concen: 52.530 ng
RT: 14.621 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 777794

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.8	7.0	10.6

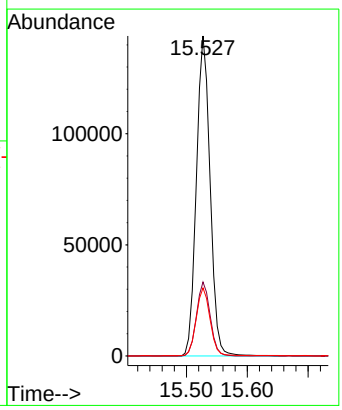


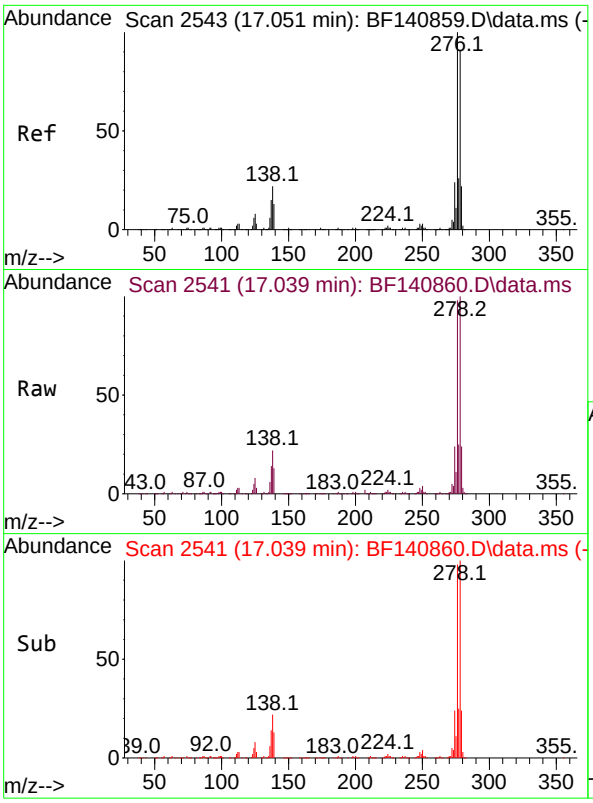


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.018 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:264 Resp: 225570

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	21.2	17.0	25.4



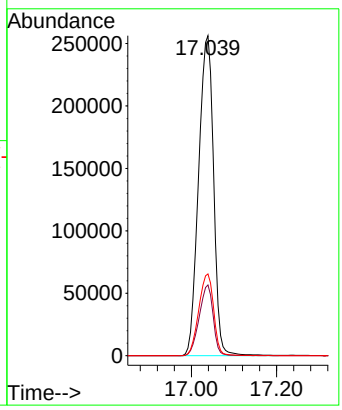


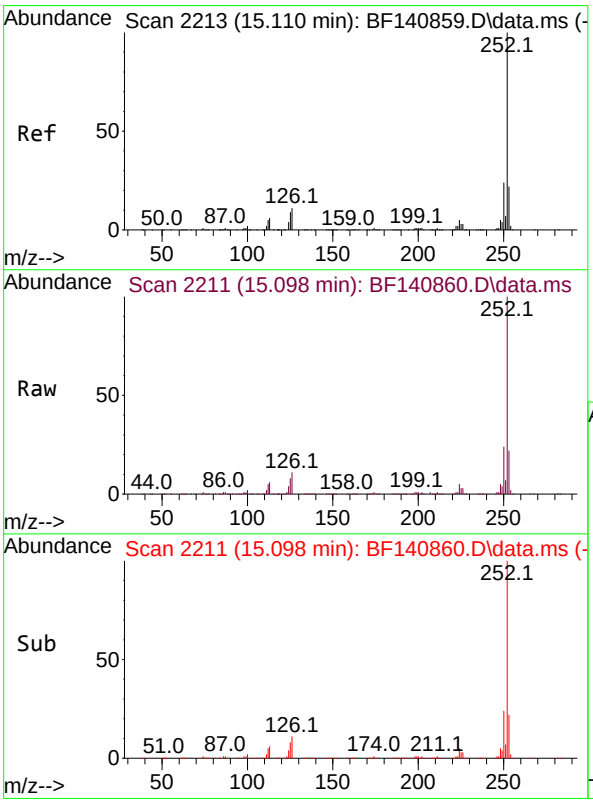
#87
Indeno(1,2,3-cd)pyrene
Concen: 44.446 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 625642

Ion	Ratio	Lower	Upper
276	100		
138	20.6	16.9	25.3
277	25.4	20.2	30.4

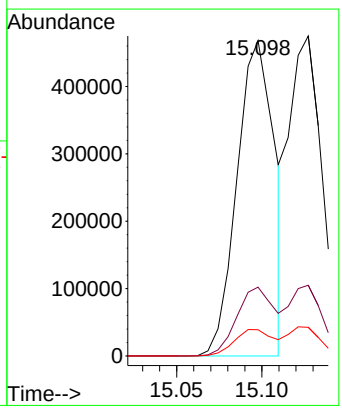


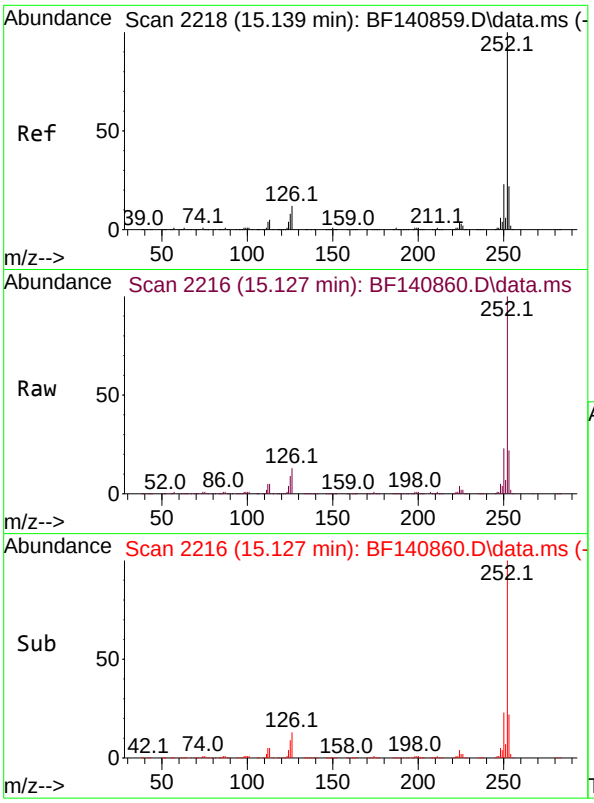


#88
Benzo(b)fluoranthene
Concen: 45.486 ng
RT: 15.098 min Scan# 2211
Delta R.T. -0.012 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:252 Resp: 712222

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	8.3	7.0	10.4



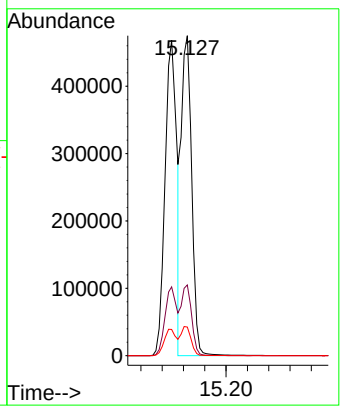


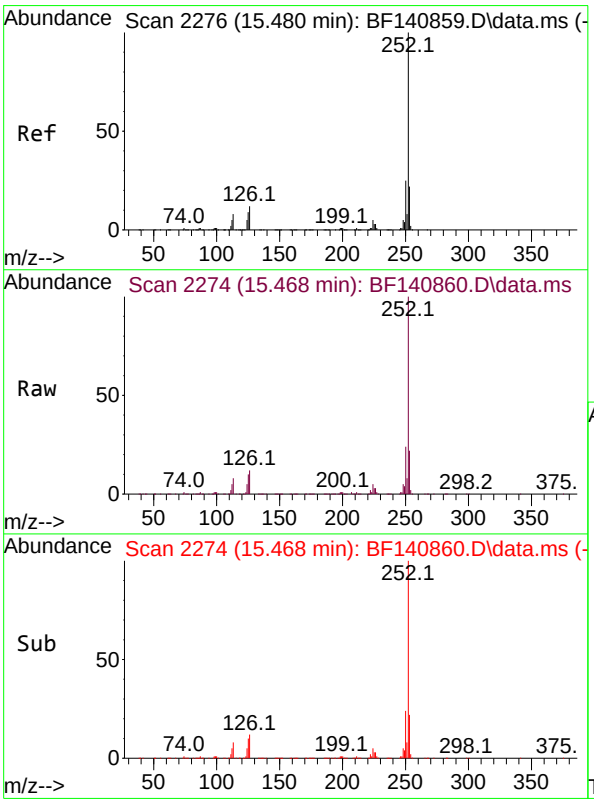
#89
Benzo(k)fluoranthene
Concen: 47.959 ng
RT: 15.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 644153

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	8.9	6.8	10.2

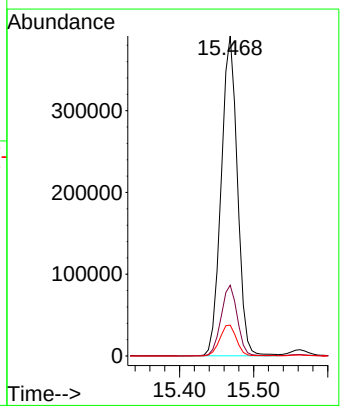


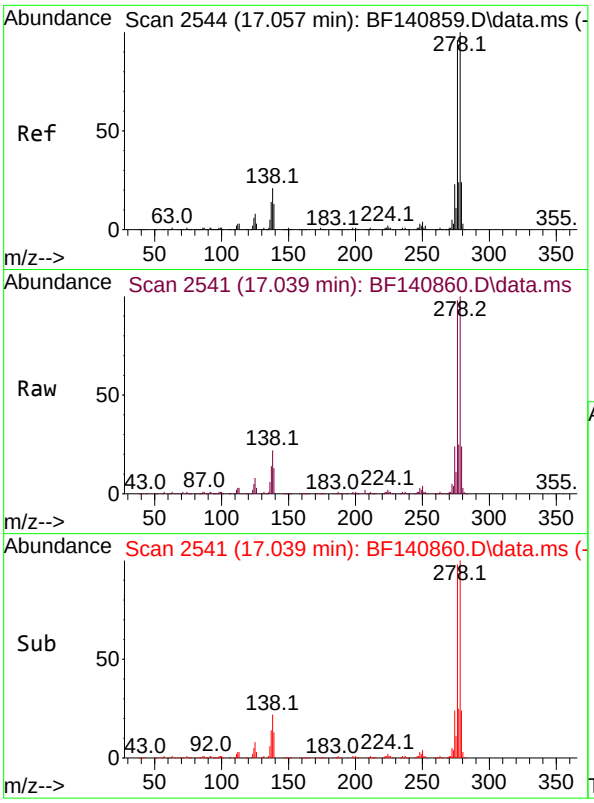


#90
Benzo(a)pyrene
Concen: 48.554 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.012 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:252 Resp: 595306

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.7	7.5	11.3



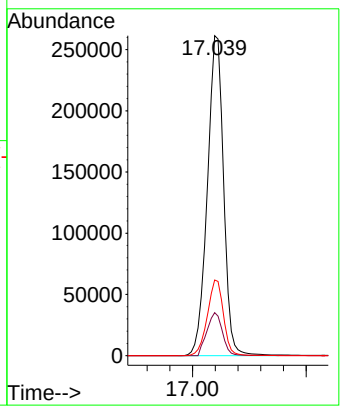


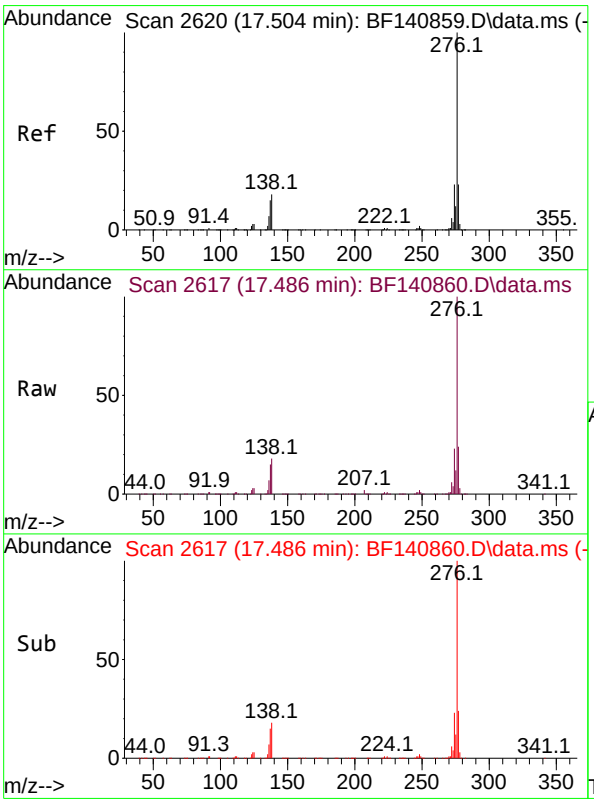
#91
Dibenzo(a,h)anthracene
Concen: 44.411 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 517904

Ion	Ratio	Lower	Upper
278	100		
139	13.4	10.6	16.0
279	23.7	19.2	28.8

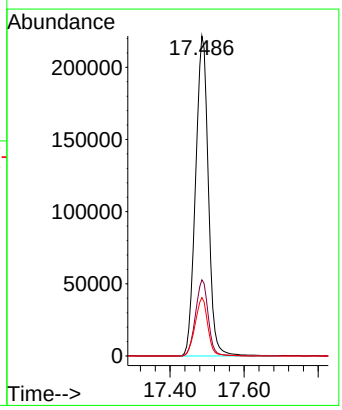




#92
Benzo(g,h,i)perylene
Concen: 44.846 ng
RT: 17.486 min Scan# 2617
Delta R.T. -0.018 min
Lab File: BF140860.D
Acq: 16 Dec 2024 15:23

Tgt Ion:276 Resp: 532268

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.7	28.1
138	18.2	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140861.D
Acq On : 16 Dec 2024 15:49
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Dec 16 16:51:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	71125	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	259532	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	148549	20.000	ng	0.00
64) Phenanthrene-d10	11.374	188	283911	20.000	ng	0.00
76) Chrysene-d12	14.033	240	189956	20.000	ng	0.00
86) Perylene-d12	15.527	264	161062	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	530122	122.696	ng	0.00
7) Phenol-d6	6.504	99	692405	120.993	ng	0.00
23) Nitrobenzene-d5	7.422	82	646998	124.724	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	216378	123.158	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	1287749	119.184	ng	0.00
79) Terphenyl-d14	12.963	244	1435829	119.191	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.616	88	112534	60.469	ng	99
3) Pyridine	3.398	79	263425	61.121	ng	98
4) n-Nitrosodimethylamine	3.363	42	138309	63.658	ng	100
6) Aniline	6.522	93	292063	59.690	ng	95
8) 2-Chlorophenol	6.645	128	288270	61.183	ng	97
9) Benzaldehyde	6.410	77	170596	53.801	ng	99
10) Phenol	6.516	94	360221	60.734	ng	98
11) bis(2-Chloroethyl)ether	6.592	93	270334	61.117	ng	100
12) 1,3-Dichlorobenzene	6.792	146	326363	60.789	ng	98
13) 1,4-Dichlorobenzene	6.869	146	329906	60.537	ng	100
14) 1,2-Dichlorobenzene	7.022	146	306086	59.529	ng	98
15) Benzyl Alcohol	7.004	79	251539	61.475	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	307981	59.106	ng	89
17) 2-Methylphenol	7.116	107	227597	60.504	ng	100
18) Hexachloroethane	7.357	117	123680	60.962	ng	98
19) n-Nitroso-di-n-propyla...	7.269	70	202582	59.015	ng	99
20) 3+4-Methylphenols	7.275	107	297926	59.728	ng	93
22) Acetophenone	7.269	105	403586	62.164	ng	98
24) Nitrobenzene	7.439	77	334236	62.893	ng	99
25) Isophorone	7.681	82	544844	62.685	ng	100
26) 2-Nitrophenol	7.751	139	156696	64.020	ng	98
27) 2,4-Dimethylphenol	7.792	122	177170	61.982	ng	97
28) bis(2-Chloroethoxy)met...	7.880	93	332048	61.166	ng	98
29) 2,4-Dichlorophenol	8.004	162	246376	62.432	ng	99
30) 1,2,4-Trichlorobenzene	8.075	180	281649	62.258	ng	100
31) Naphthalene	8.151	128	874776	61.360	ng	100
32) Benzoic acid	7.957	122	184163	67.933	ng	98
33) 4-Chloroaniline	8.210	127	282583	59.681	ng	99
34) Hexachlorobutadiene	8.263	225	185962	61.097	ng	99
35) Caprolactam	8.604	113	71386	60.761	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	266211	59.935	ng	100
37) 2-Methylnaphthalene	8.845	142	559572	59.336	ng	100
38) 1-Methylnaphthalene	8.945	142	550027	58.973	ng	99
40) 1,2,4,5-Tetrachloroben...	9.010	216	277082	60.686	ng	100
41) Hexachlorocyclopentadiene	8.992	237	81340	60.032	ng	99
43) 2,4,6-Trichlorophenol	9.127	196	176148	63.005	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140861.D
Acq On : 16 Dec 2024 15:49
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Dec 16 16:51:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

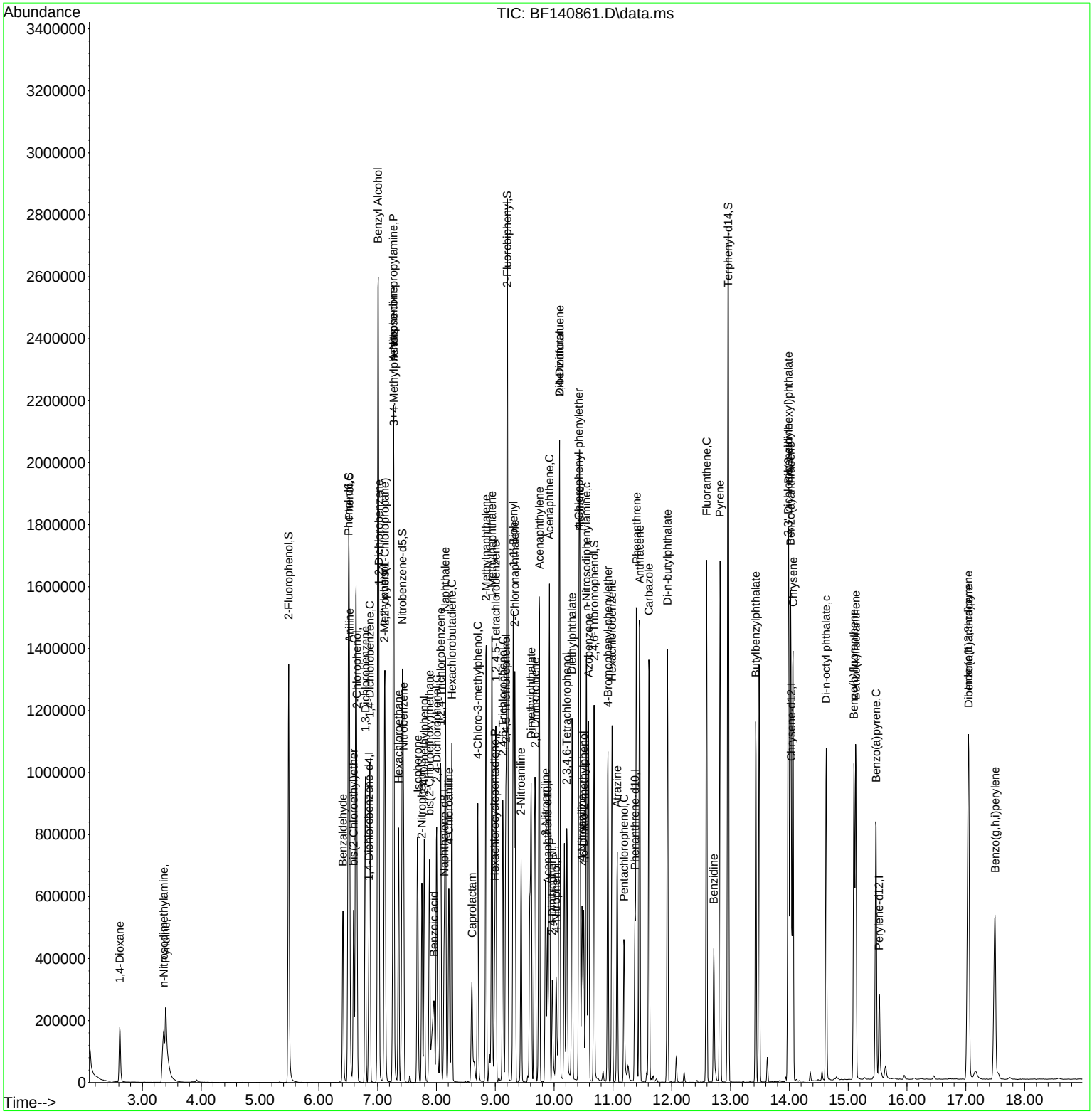
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.180	196	189802	61.766	ng	99
46) 1,1'-Biphenyl	9.310	154	701999	59.429	ng	99
47) 2-Chloronaphthalene	9.333	162	537602	59.491	ng	98
48) 2-Nitroaniline	9.439	65	168378	61.695	ng	98
49) Acenaphthylene	9.751	152	794616	59.836	ng	100
50) Dimethylphthalate	9.610	163	631578	60.305	ng	99
51) 2,6-Dinitrotoluene	9.680	165	143106	59.771	ng	100
52) Acenaphthene	9.922	154	511499	60.297	ng	100
53) 3-Nitroaniline	9.857	138	144867	60.971	ng	99
54) 2,4-Dinitrophenol	9.969	184	71344	62.619	ng	98
55) Dibenzofuran	10.092	168	778085	59.193	ng	99
56) 4-Nitrophenol	10.033	139	78468	62.429	ng	94
57) 2,4-Dinitrotoluene	10.092	165	189784	60.246	ng	98
58) Fluorene	10.439	166	634898	58.546	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	158455	63.281	ng	99
60) Diethylphthalate	10.304	149	651190	59.961	ng	100
61) 4-Chlorophenyl-phenyle...	10.422	204	324333	59.539	ng	100
62) 4-Nitroaniline	10.474	138	150990	60.812	ng	98
63) Azobenzene	10.586	77	594674	58.245	ng	99
65) 4,6-Dinitro-2-methylph...	10.504	198	109821	68.263	ng	97
66) n-Nitrosodiphenylamine	10.551	169	532978	61.058	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	196628	61.907	ng	97
68) Hexachlorobenzene	10.986	284	219687	61.005	ng	98
69) Atrazine	11.074	200	134000	54.965	ng	99
70) Pentachlorophenol	11.192	266	90656	68.816	ng	99
71) Phenanthrene	11.404	178	863112	59.118	ng	99
72) Anthracene	11.457	178	851368	59.213	ng	99
73) Carbazole	11.610	167	826415	58.682	ng	99
74) Di-n-butylphthalate	11.927	149	1009898	61.102	ng	99
75) Fluoranthene	12.592	202	1000773	59.520	ng	100
77) Benzidine	12.715	184	258833	66.762	ng	99
78) Pyrene	12.821	202	1008093	59.679	ng	100
80) Butylbenzylphthalate	13.427	149	387906	62.410	ng	99
81) Benzo(a)anthracene	14.021	228	808026	60.019	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	254358	62.622	ng	97
83) Chrysene	14.062	228	731004	59.712	ng	100
84) Bis(2-ethylhexyl)phtha...	13.986	149	507221	63.289	ng	99
85) Di-n-octyl phthalate	14.627	149	754409	62.220	ng	99
87) Indeno(1,2,3-cd)pyrene	17.045	276	642591	63.934	ng	100
88) Benzo(b)fluoranthene	15.098	252	696582	62.306	ng	99
89) Benzo(k)fluoranthene	15.127	252	571329	59.574	ng	99
90) Benzo(a)pyrene	15.474	252	542075	61.920	ng	99
91) Dibenzo(a,h)anthracene	17.050	278	539476	64.789	ng	98
92) Benzo(g,h,i)perylene	17.498	276	530525	62.602	ng	99

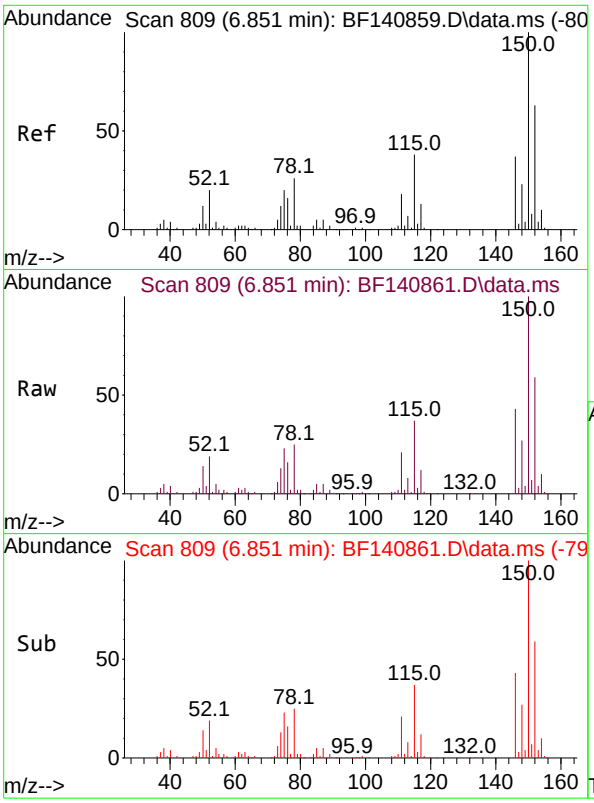
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140861.D
Acq On : 16 Dec 2024 15:49
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Dec 16 16:51:06 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



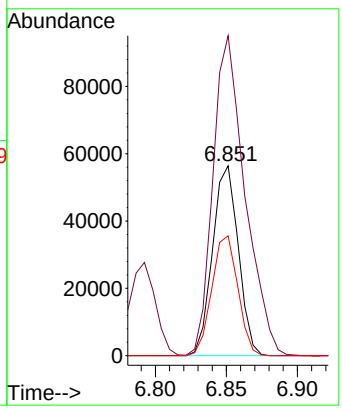


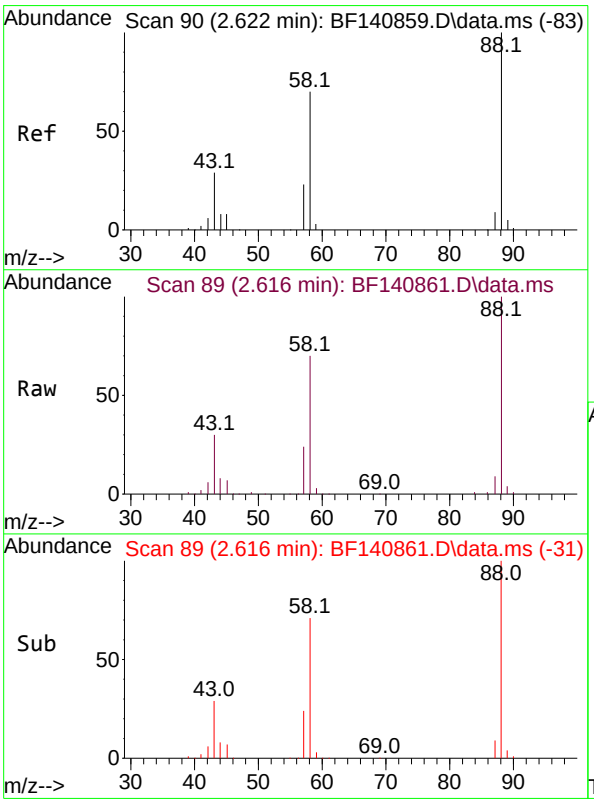
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 71125

Ion	Ratio	Lower	Upper
152	100		
150	168.5	127.9	191.9
115	63.1	48.0	72.0

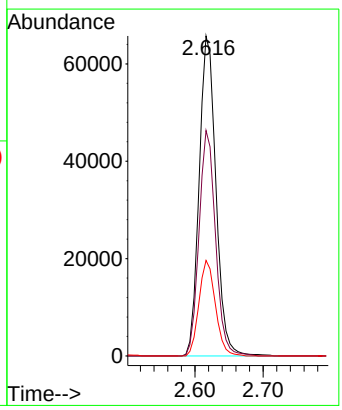


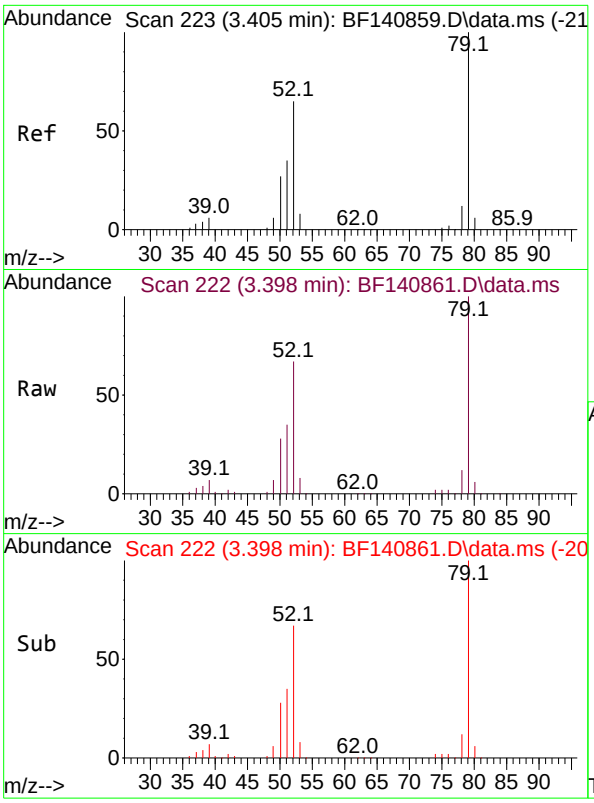


#2
1,4-Dioxane
Concen: 60.469 ng
RT: 2.616 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 88 Resp: 112534

Ion	Ratio	Lower	Upper
88	100		
58	69.2	55.8	83.8
43	29.3	22.7	34.1



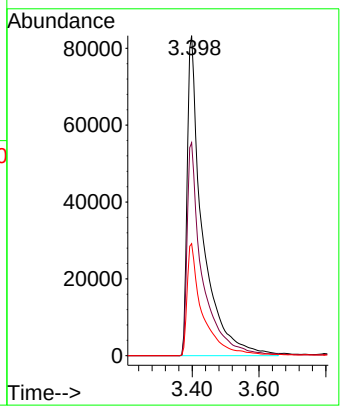


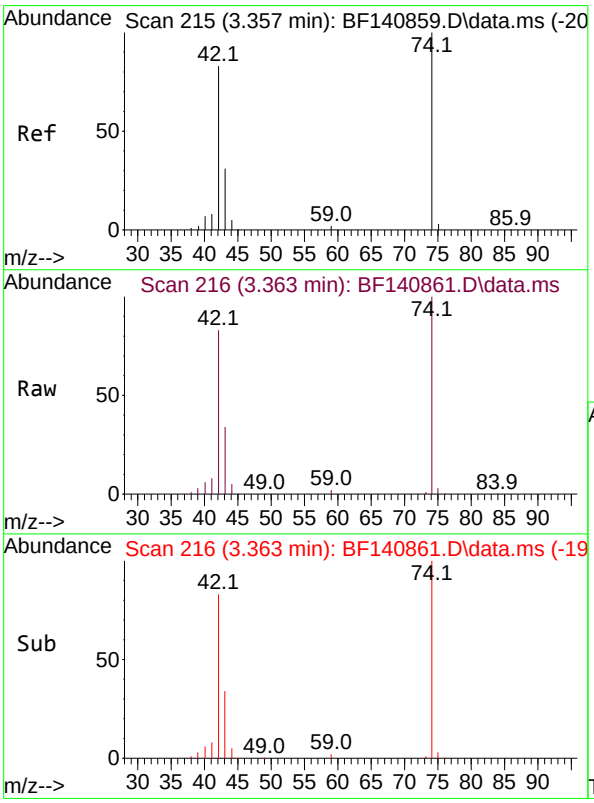
#3
Pyridine
Concen: 61.121 ng
RT: 3.398 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 263425

Ion	Ratio	Lower	Upper
79	100		
52	66.6	51.7	77.5
51	35.0	28.2	42.4

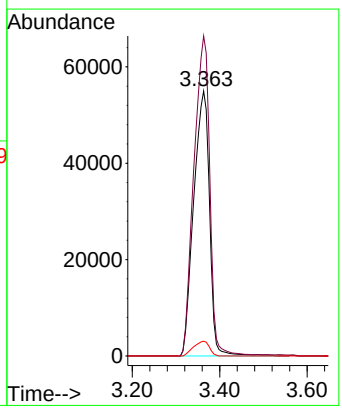


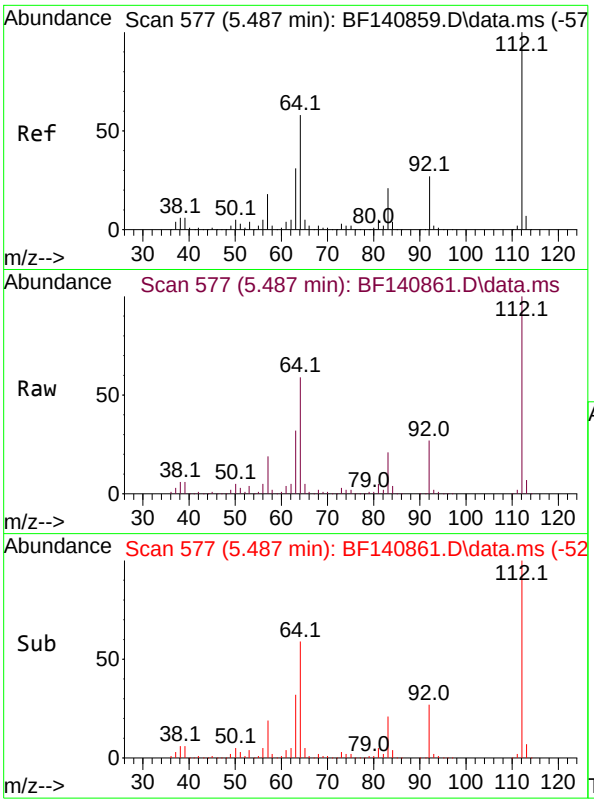


#4
n-Nitrosodimethylamine
Concen: 63.658 ng
RT: 3.363 min Scan# 216
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 42 Resp: 138309

Ion	Ratio	Lower	Upper
42	100		
74	120.7	96.9	145.3
44	5.6	4.4	6.6



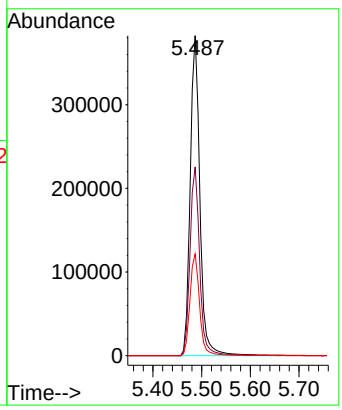


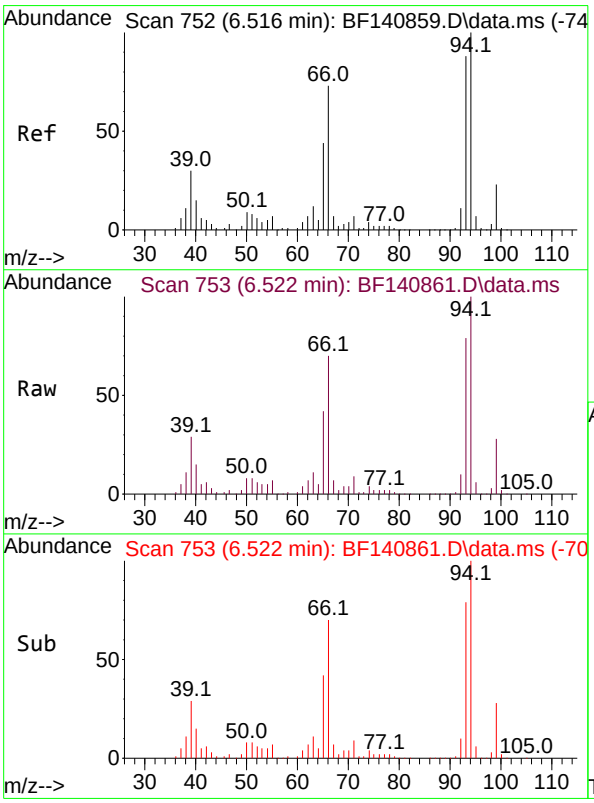
#5
2-Fluorophenol
Concen: 122.696 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 530122

Ion	Ratio	Lower	Upper
112	100		
64	59.0	46.1	69.1
63	31.8	24.9	37.3

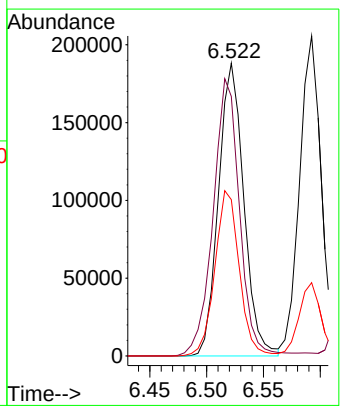


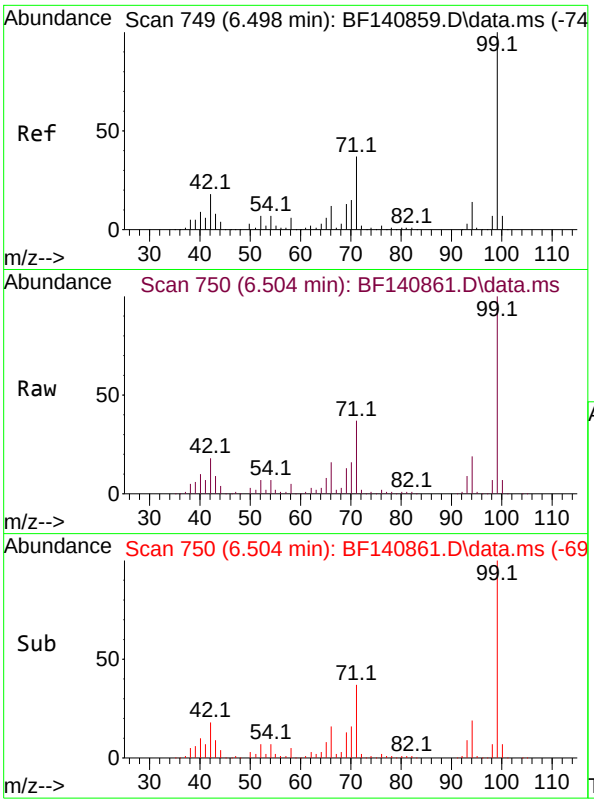


#6
Aniline
Concen: 59.690 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 93 Resp: 292063

Ion	Ratio	Lower	Upper
93	100		
66	88.6	67.0	100.4
65	53.4	40.4	60.6



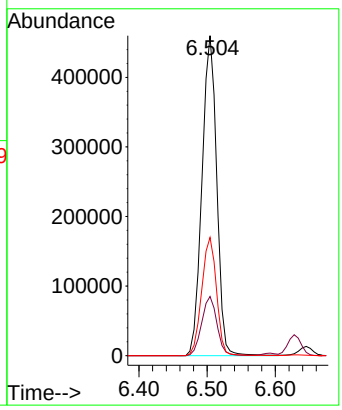


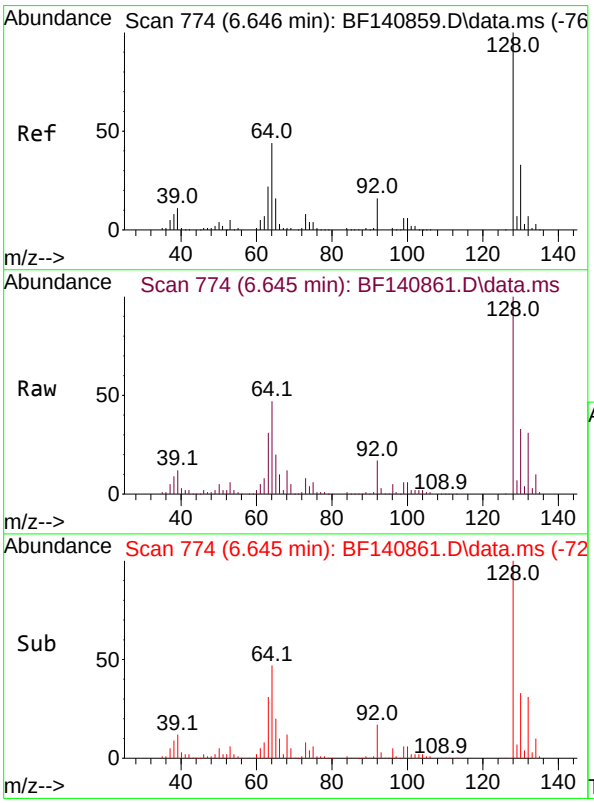
#7
Phenol-d6
Concen: 120.993 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 692405

Ion	Ratio	Lower	Upper
99	100		
42	18.5	14.3	21.5
71	36.9	29.9	44.9

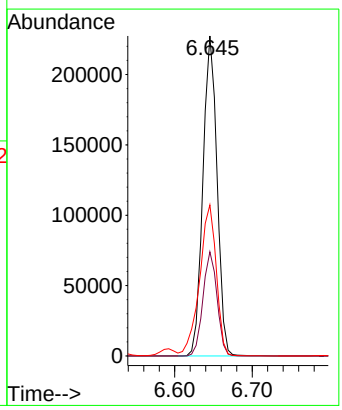


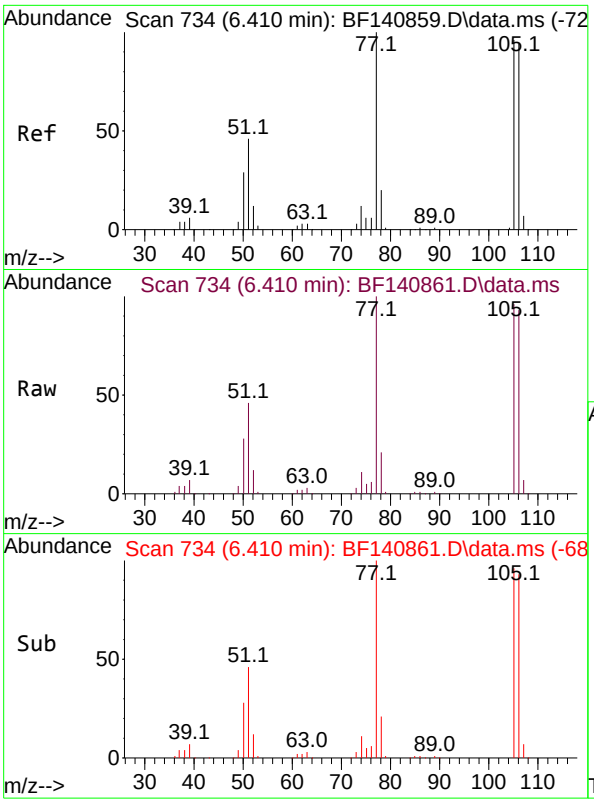


#8
2-Chlorophenol
Concen: 61.183 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:128 Resp: 288270

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.9	52.9
64	47.2	24.3	64.3



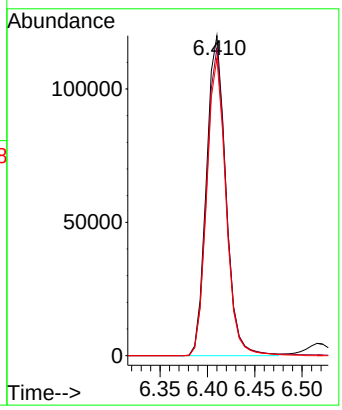


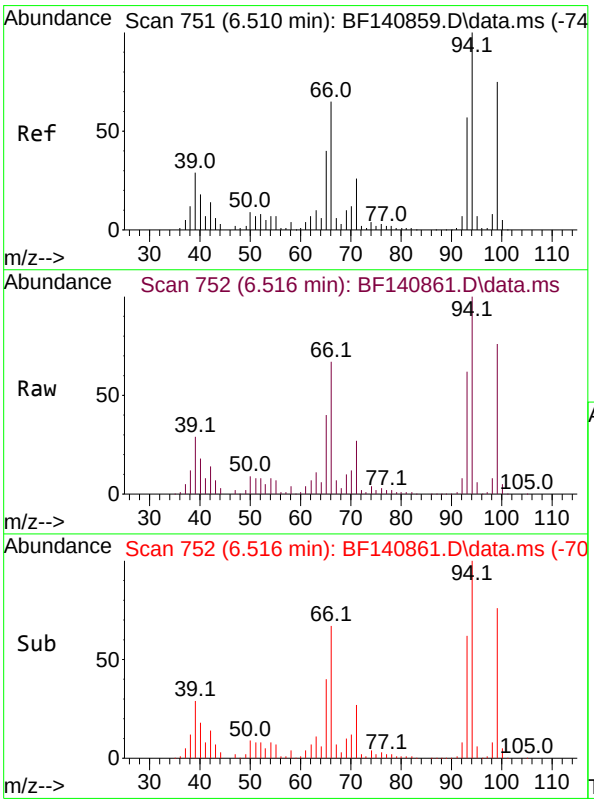
#9
Benzaldehyde
Concen: 53.801 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 170596

Ion	Ratio	Lower	Upper
77	100		
105	96.2	75.8	115.8
106	93.0	74.1	114.1

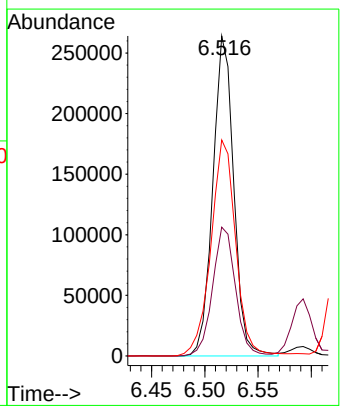


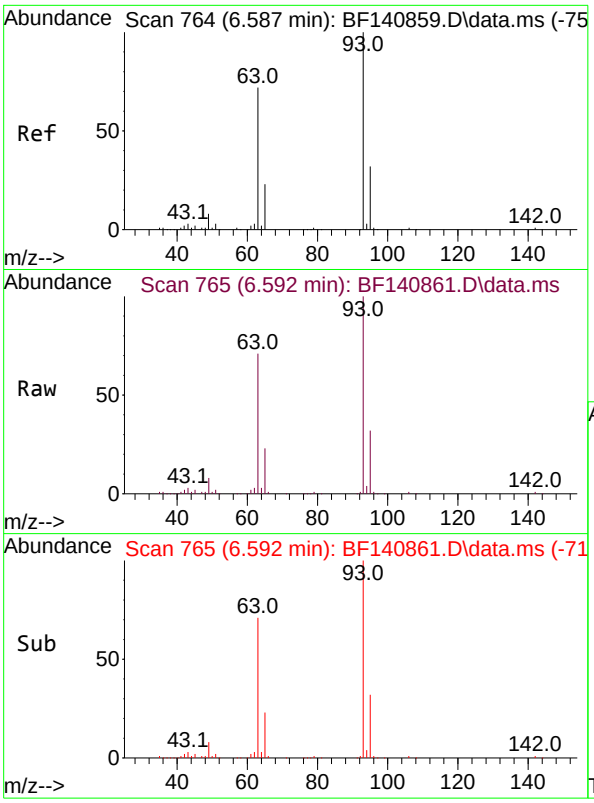


#10
Phenol
Concen: 60.734 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 94 Resp: 360221

Ion	Ratio	Lower	Upper
94	100		
65	40.2	19.9	59.9
66	67.5	45.6	85.6



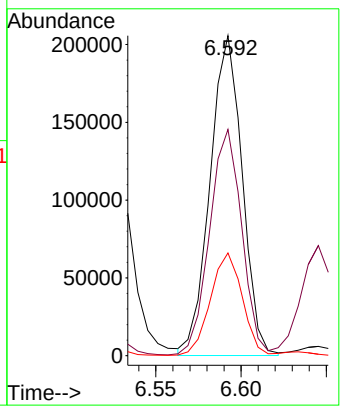


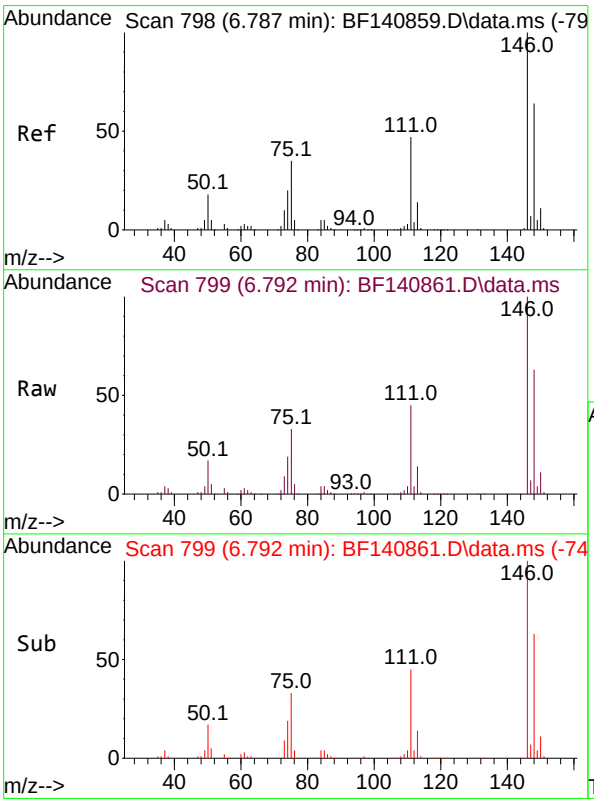
#11
bis(2-Chloroethyl)ether
Concen: 61.117 ng
RT: 6.592 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 270334

Ion	Ratio	Lower	Upper
93	100		
63	70.7	51.0	91.0
95	32.1	12.0	52.0

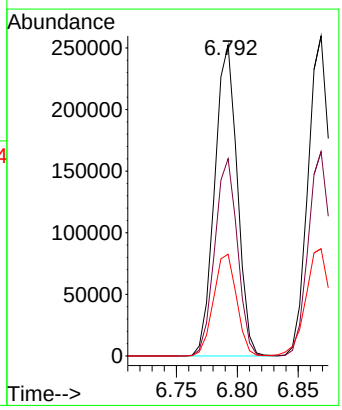


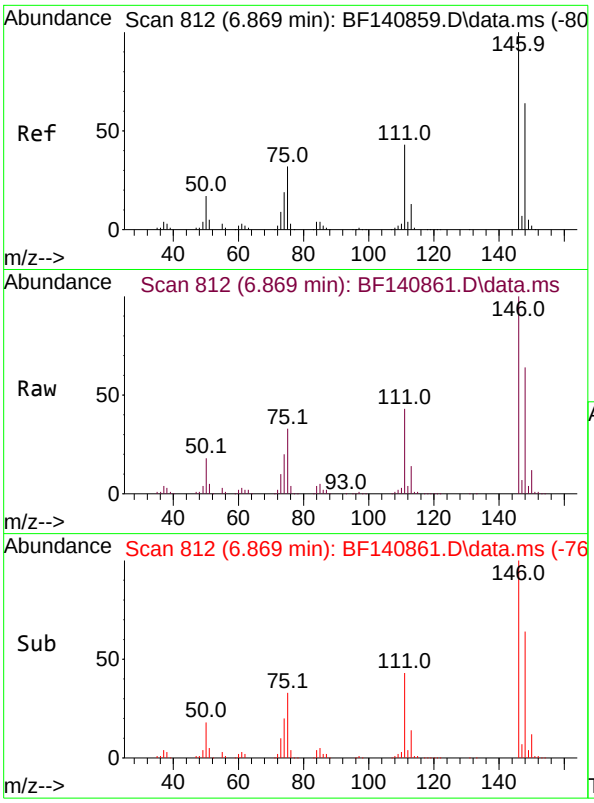


#12
1,3-Dichlorobenzene
Concen: 60.789 ng
RT: 6.792 min Scan# 799
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:146 Resp: 326363

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.6
75	32.7	28.1	42.1



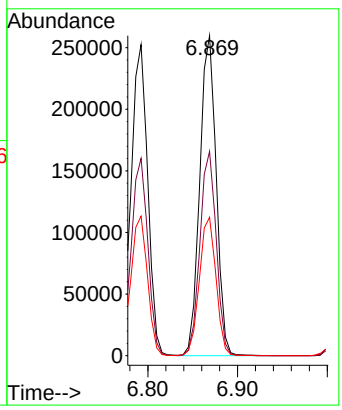


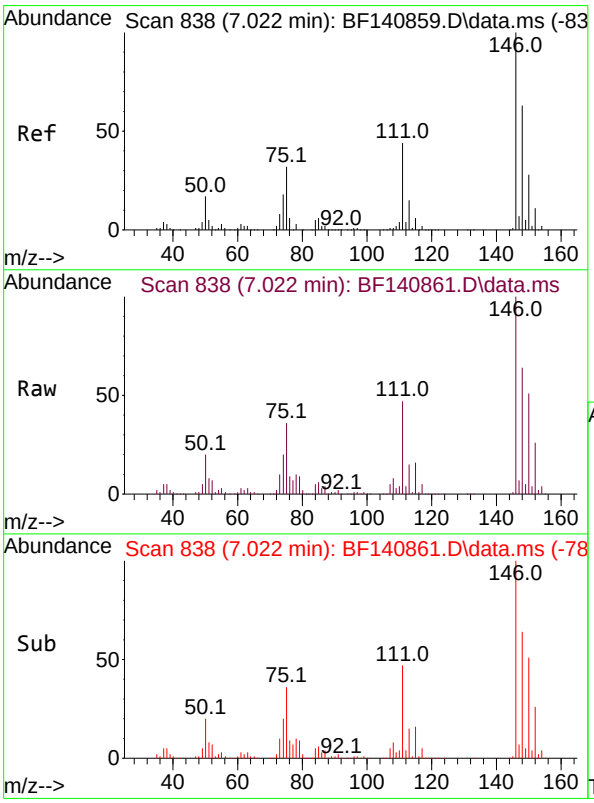
#13
1,4-Dichlorobenzene
Concen: 60.537 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 329906

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.3	76.9
111	43.3	34.4	51.6

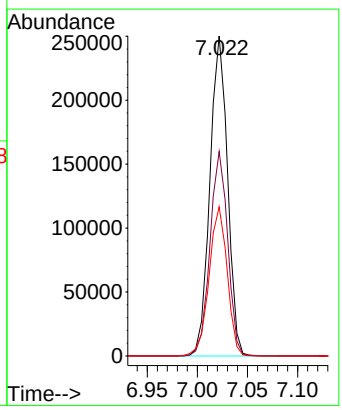


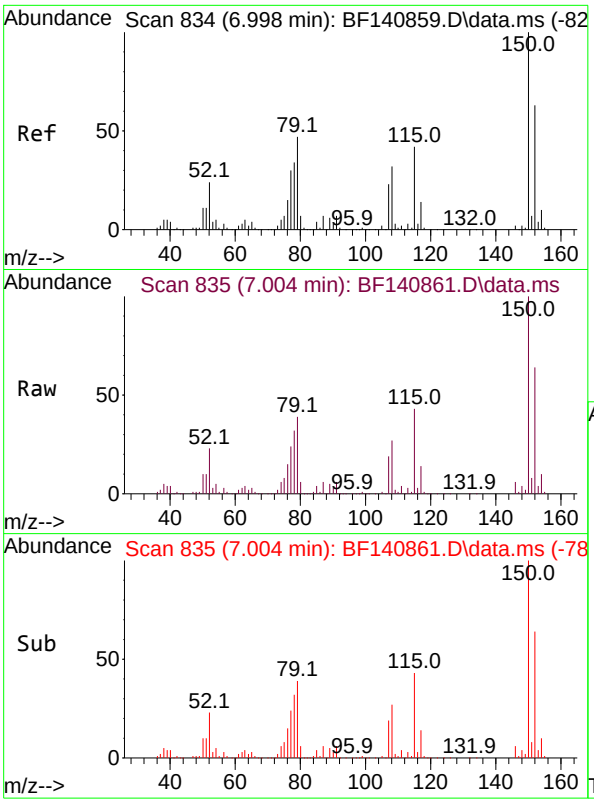


#14
1,2-Dichlorobenzene
Concen: 59.529 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:146 Resp: 306086

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.0	75.0
111	46.6	35.6	53.4



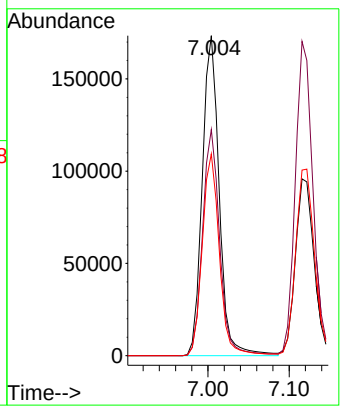


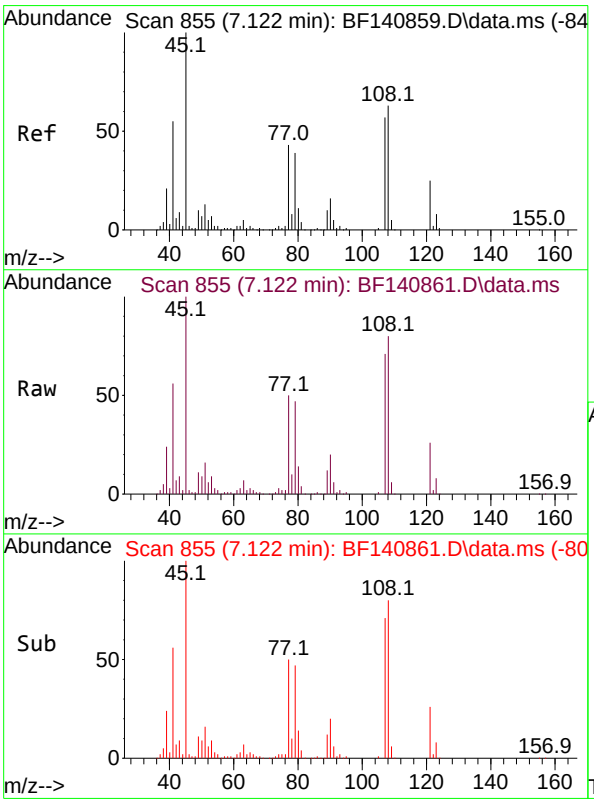
#15
Benzyl Alcohol
Concen: 61.475 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 251539

Ion	Ratio	Lower	Upper
79	100		
108	70.6	55.1	82.7
77	63.0	50.6	76.0

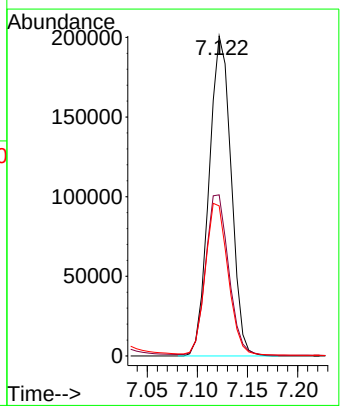


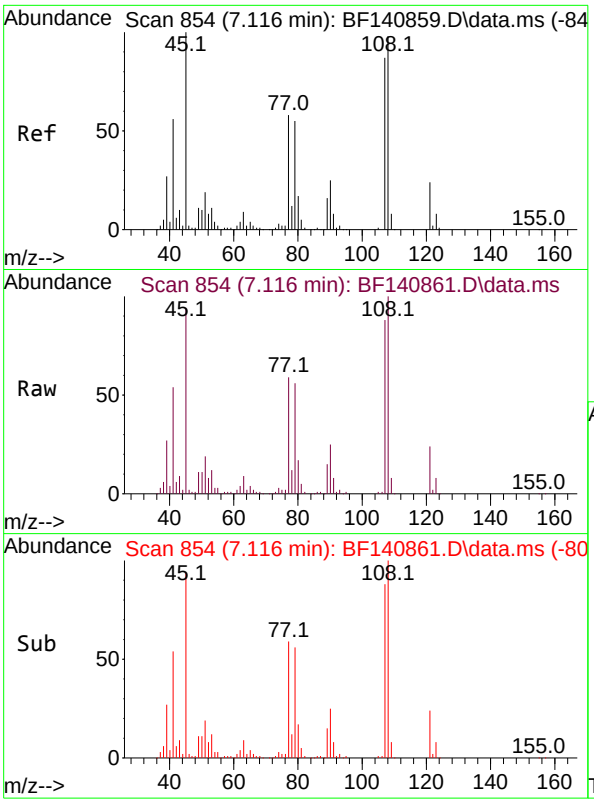


#16
2,2'-oxybis(1-Chloropropane)
Concen: 59.106 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 45 Resp: 307981

Ion	Ratio	Lower	Upper
45	100		
77	50.3	23.3	63.3
79	46.9	20.0	60.0



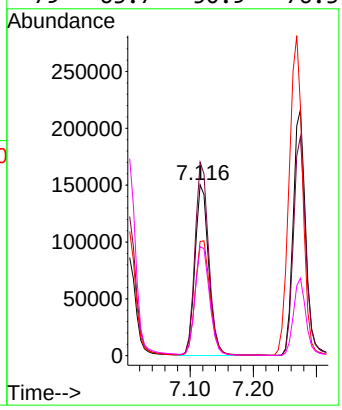


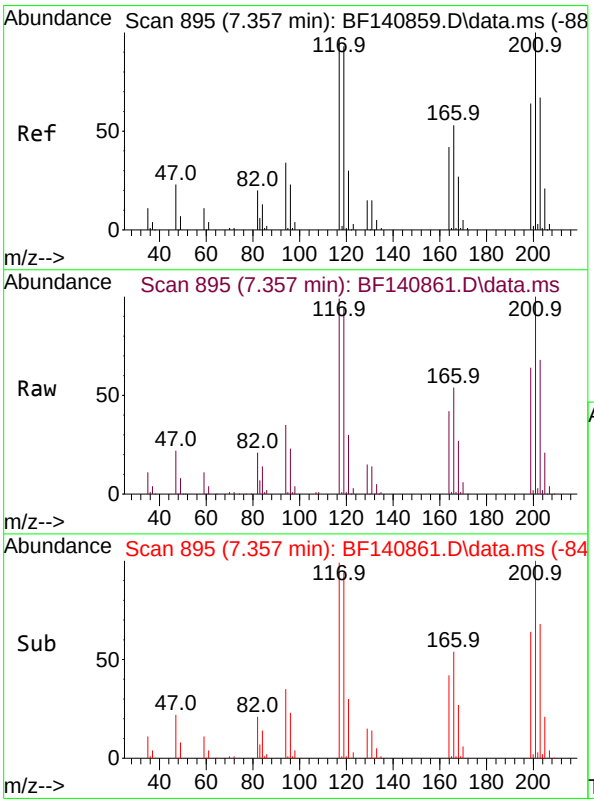
#17
2-Methylphenol
Concen: 60.504 ng
RT: 7.116 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 227597

Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.2	135.4
77	66.9	53.8	80.6
79	63.7	50.9	76.3

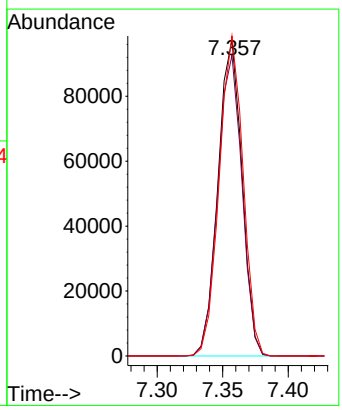


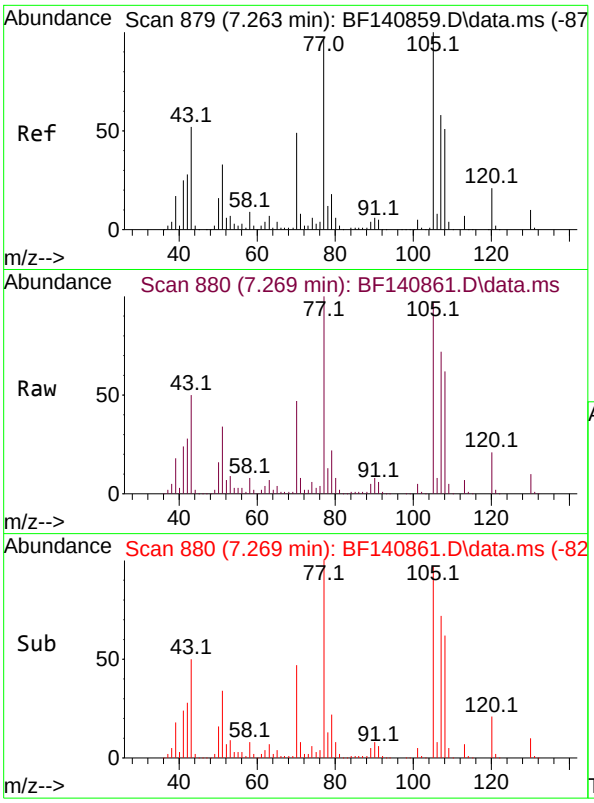


#18
Hexachloroethane
Concen: 60.962 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:117 Resp: 123680

Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.4	116.0
201	101.3	83.4	125.0



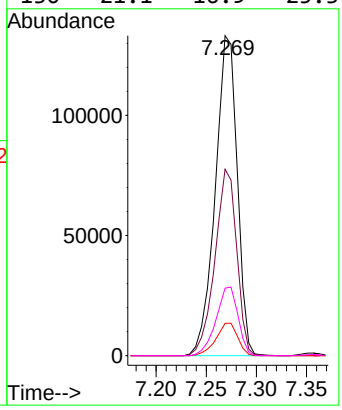


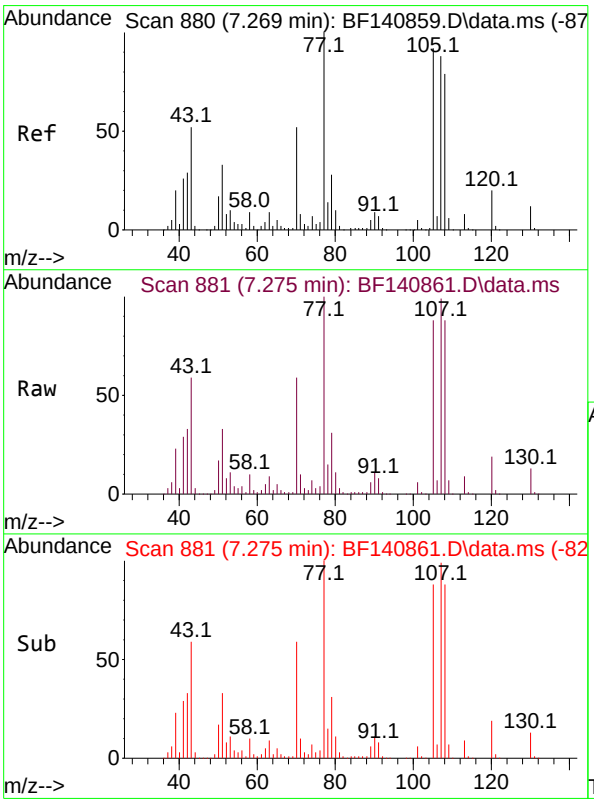
#19
n-Nitroso-di-n-propylamine
Concen: 59.015 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 202582

Ion	Ratio	Lower	Upper
70	100		
42	58.3	45.3	67.9
101	10.1	8.0	12.0
130	21.1	16.9	25.3

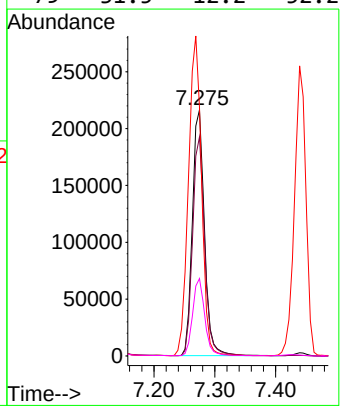


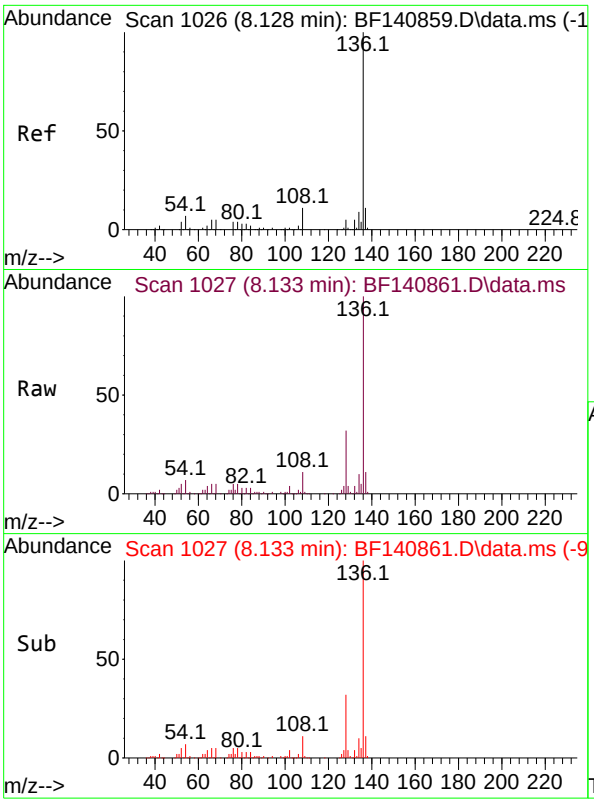


#20
3+4-Methylphenols
Concen: 59.728 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:107 Resp: 297926

Ion	Ratio	Lower	Upper
107	100		
108	89.0	70.1	110.1
77	101.1	94.4	134.4
79	31.5	12.2	52.2



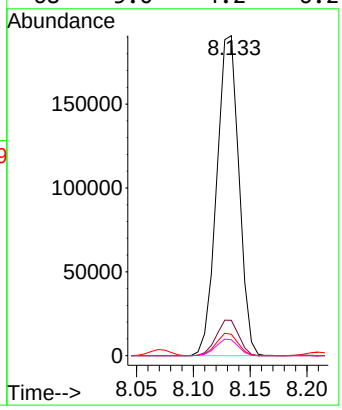


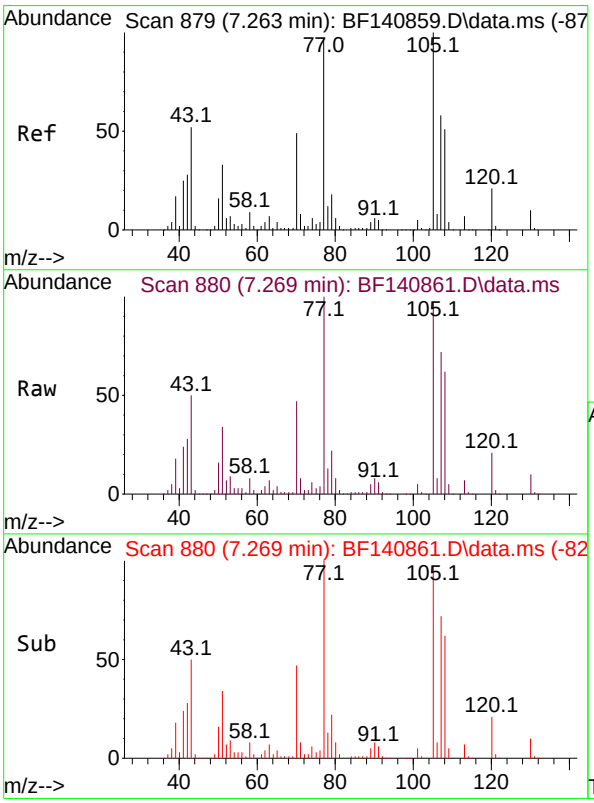
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 259532

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	6.7	5.6	8.4
68	5.0	4.2	6.2

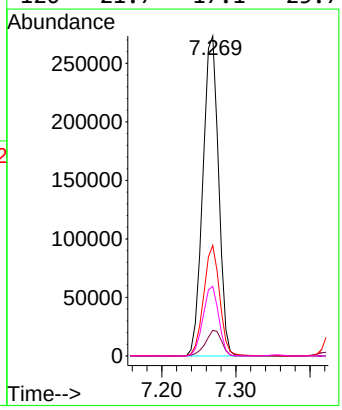


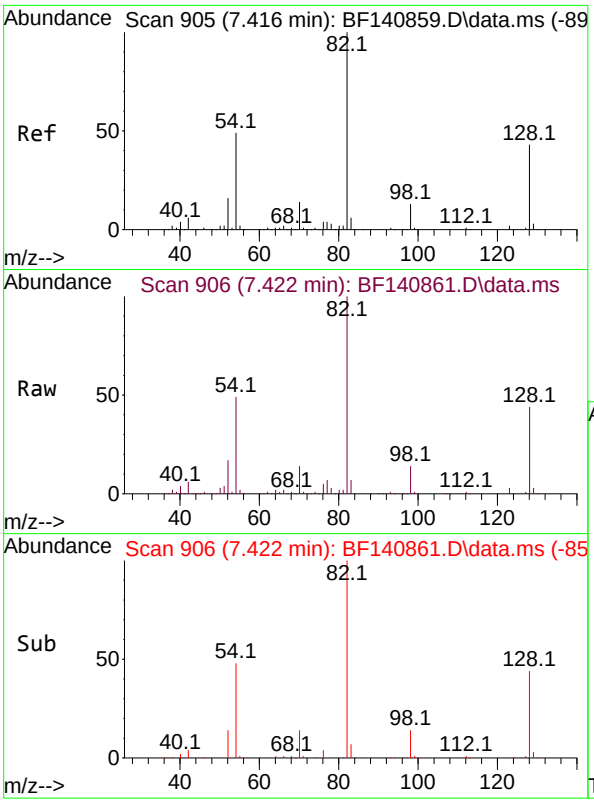


#22
Acetophenone
Concen: 62.164 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:105 Resp: 403586

Ion	Ratio	Lower	Upper
105	100		
71	8.0	6.2	9.4
51	34.6	26.3	39.5
120	21.7	17.1	25.7



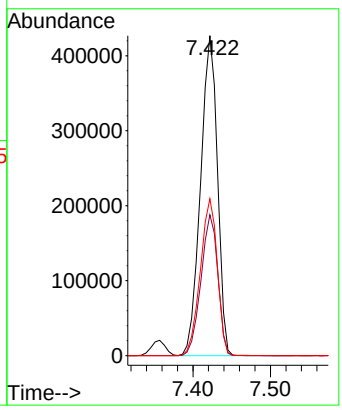


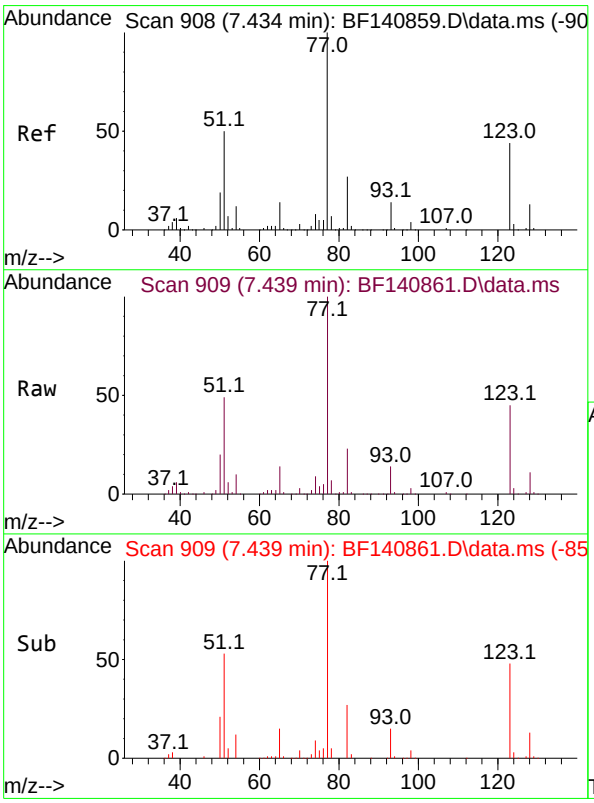
#23
Nitrobenzene-d5
Concen: 124.724 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 646998

Ion	Ratio	Lower	Upper
82	100		
128	44.1	34.4	51.6
54	49.0	38.8	58.2

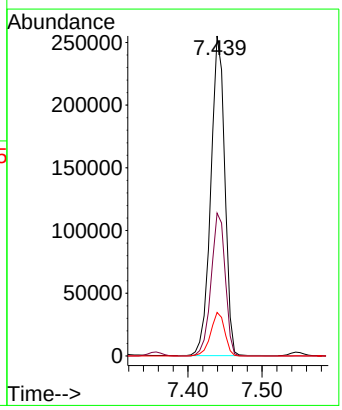


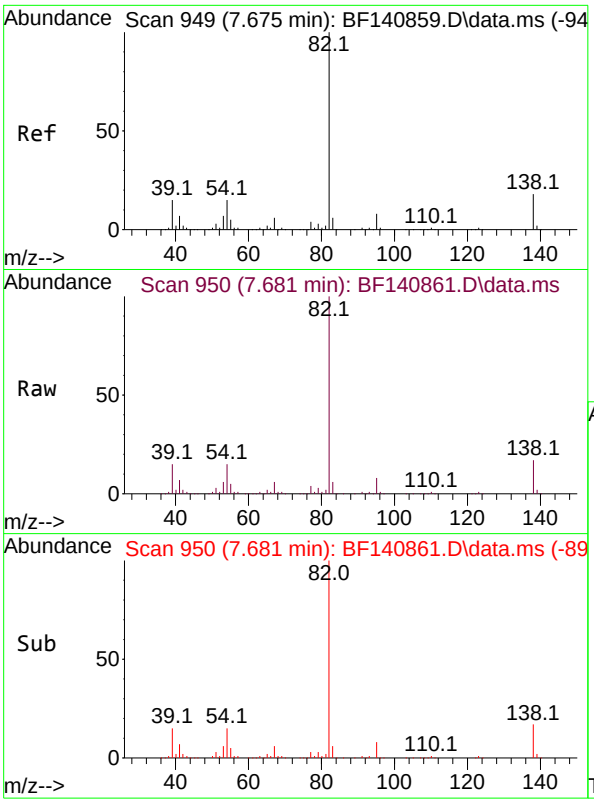


#24
Nitrobenzene
Concen: 62.893 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 77 Resp: 334236

Ion	Ratio	Lower	Upper
77	100		
123	44.6	35.0	52.4
65	13.6	11.4	17.0



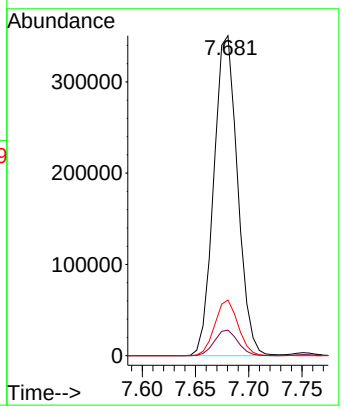


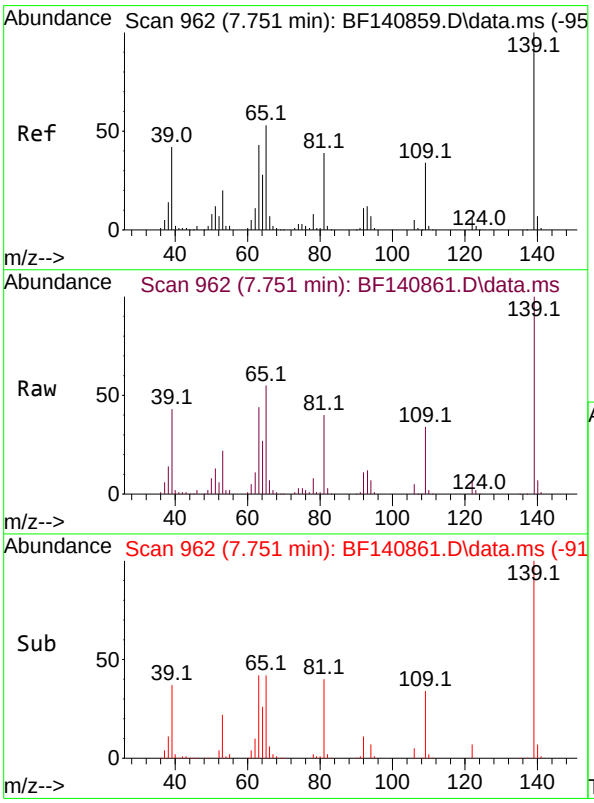
#25
Isophorone
Concen: 62.685 ng
RT: 7.681 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 544844

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	17.4	14.1	21.1

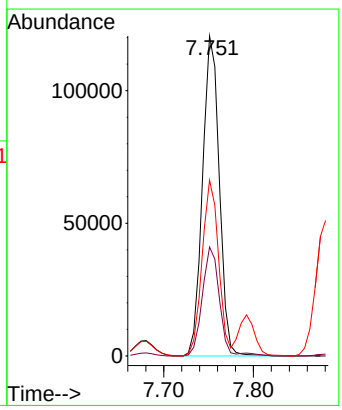


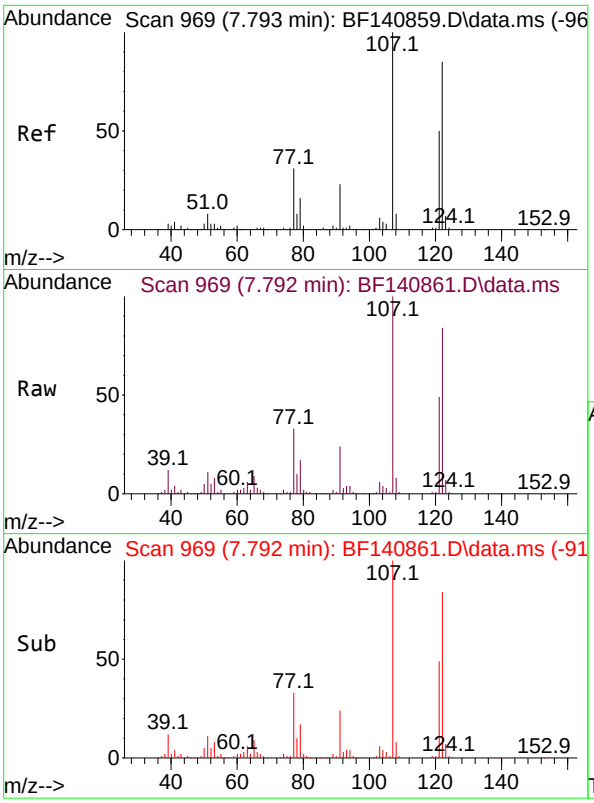


#26
2-Nitrophenol
Concen: 64.020 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:139 Resp: 156696

Ion	Ratio	Lower	Upper
139	100		
109	34.1	26.9	40.3
65	54.9	42.6	64.0



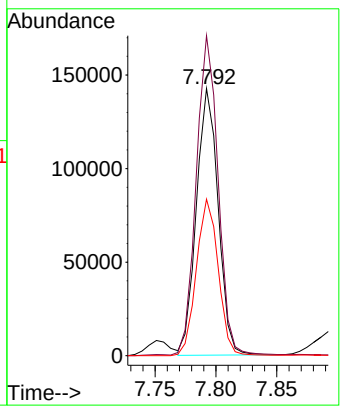


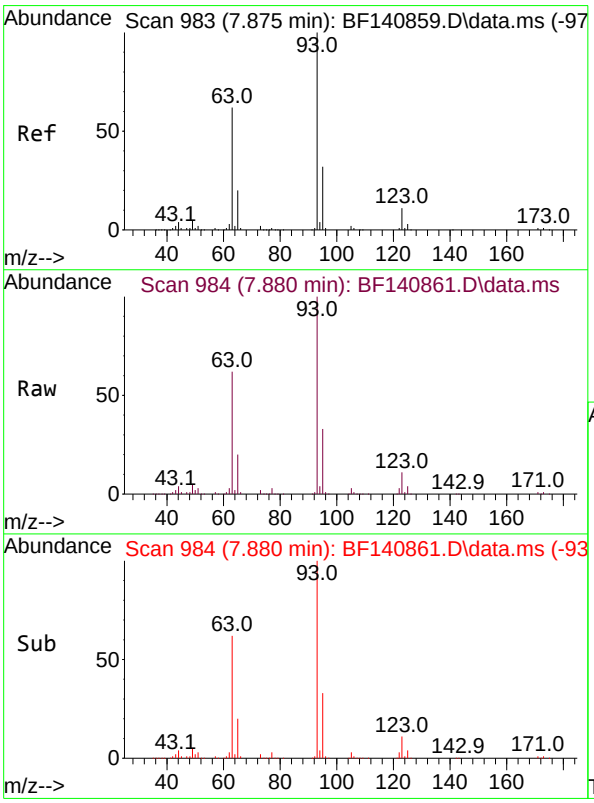
#27
2,4-Dimethylphenol
Concen: 61.982 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 177170

Ion	Ratio	Lower	Upper
122	100		
107	119.8	92.6	139.0
121	58.6	45.8	68.8

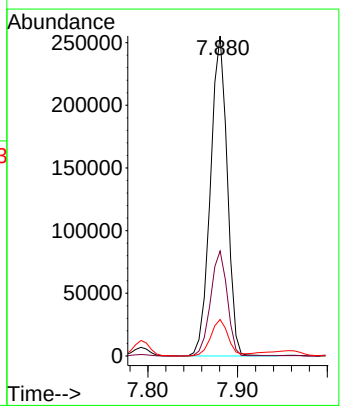


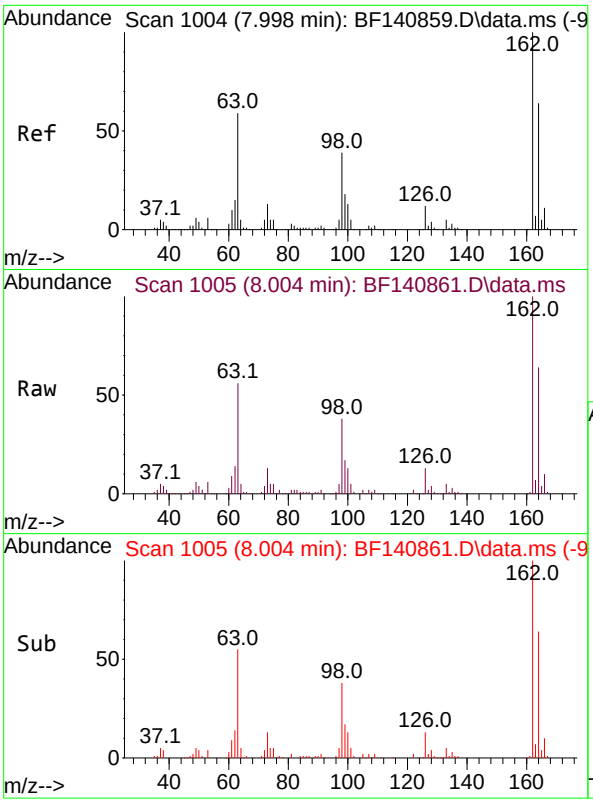


#28
bis(2-Chloroethoxy)methane
Concen: 61.166 ng
RT: 7.880 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 93 Resp: 332048

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.3	37.9
123	11.4	8.6	13.0



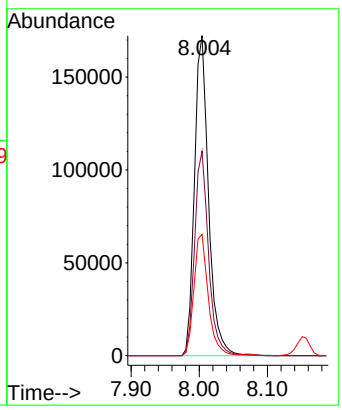


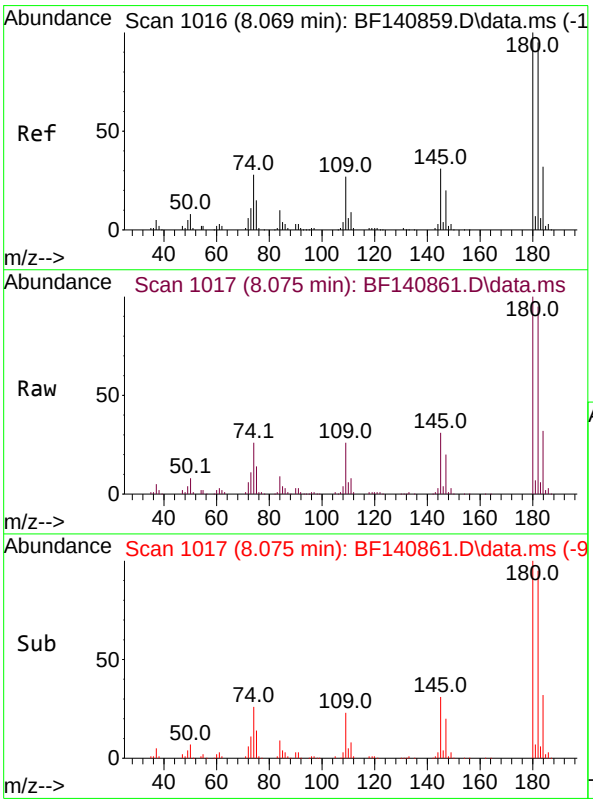
#29
2,4-Dichlorophenol
Concen: 62.432 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 246376

Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.7	83.7
98	37.9	18.6	58.6

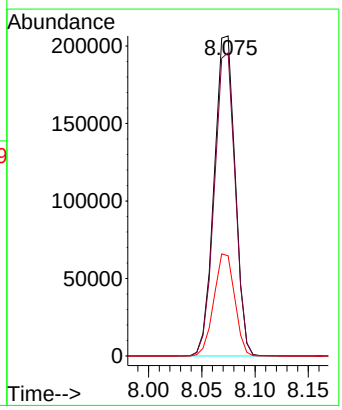


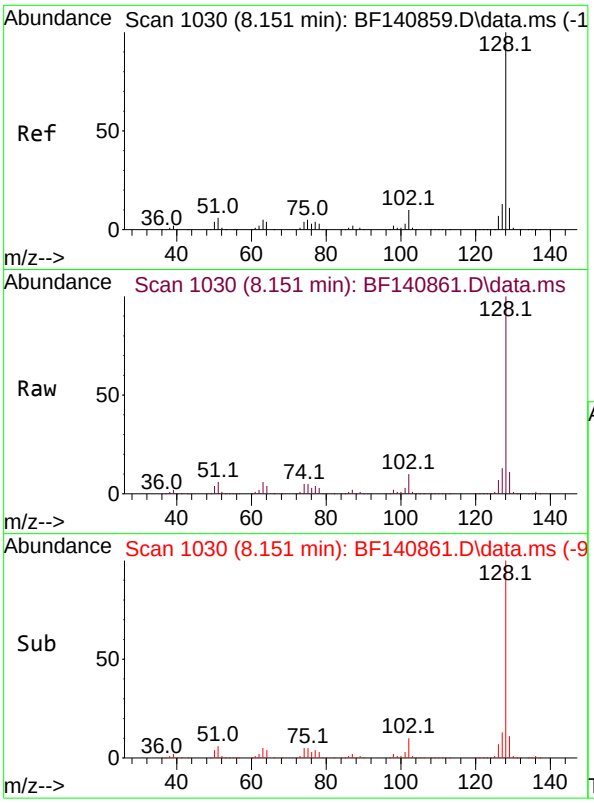


#30
1,2,4-Trichlorobenzene
Concen: 62.258 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:180 Resp: 281649

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.8	113.6
145	31.3	25.2	37.8



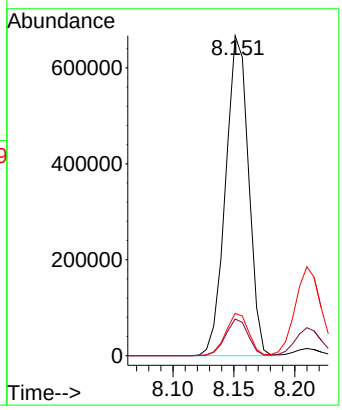


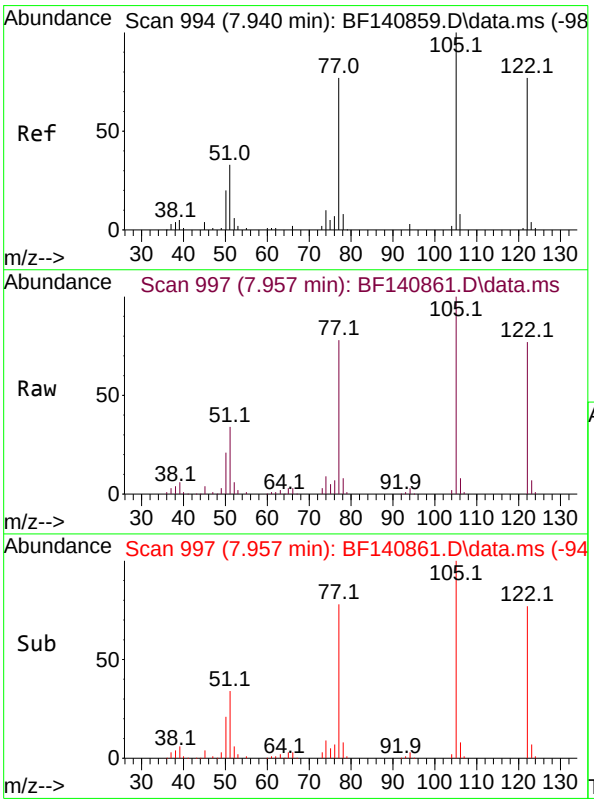
#31
Naphthalene
Concen: 61.360 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 874776

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.9	13.3
127	13.3	10.6	16.0

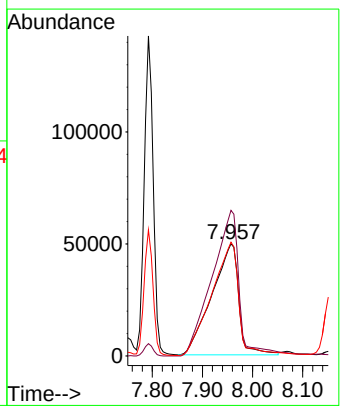


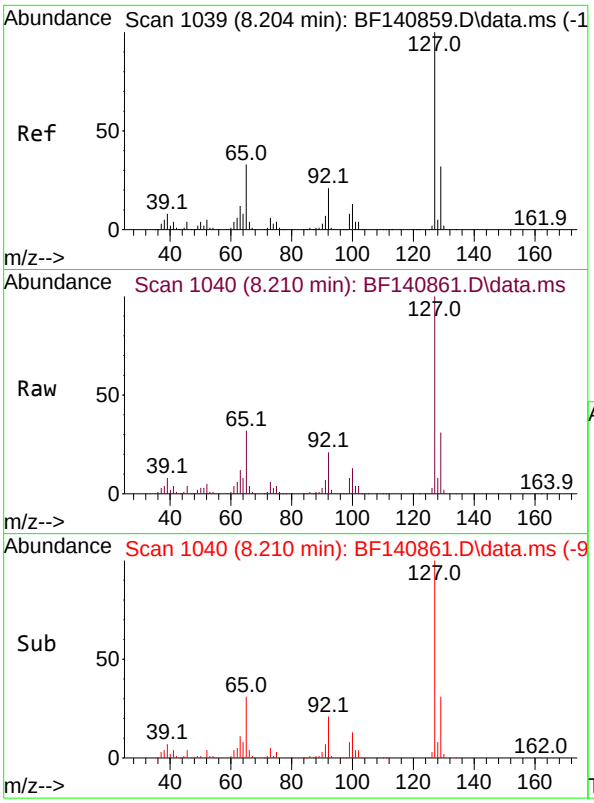


#32
Benzoic acid
Concen: 67.933 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.017 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:122 Resp: 184163

Ion	Ratio	Lower	Upper
122	100		
105	129.9	108.3	148.3
77	101.4	78.8	118.8



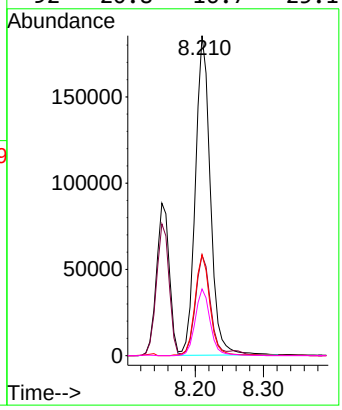


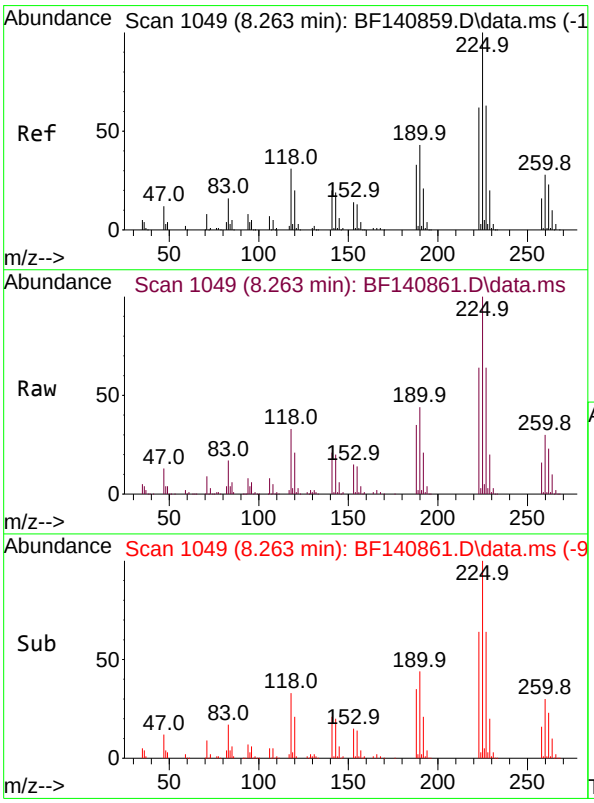
#33
4-Chloroaniline
Concen: 59.681 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 282583

Ion	Ratio	Lower	Upper
127	100		
129	31.4	26.0	39.0
65	31.6	26.0	39.0
92	20.8	16.7	25.1

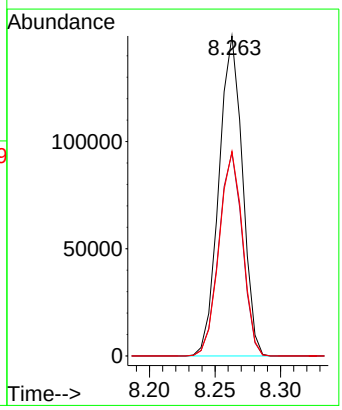


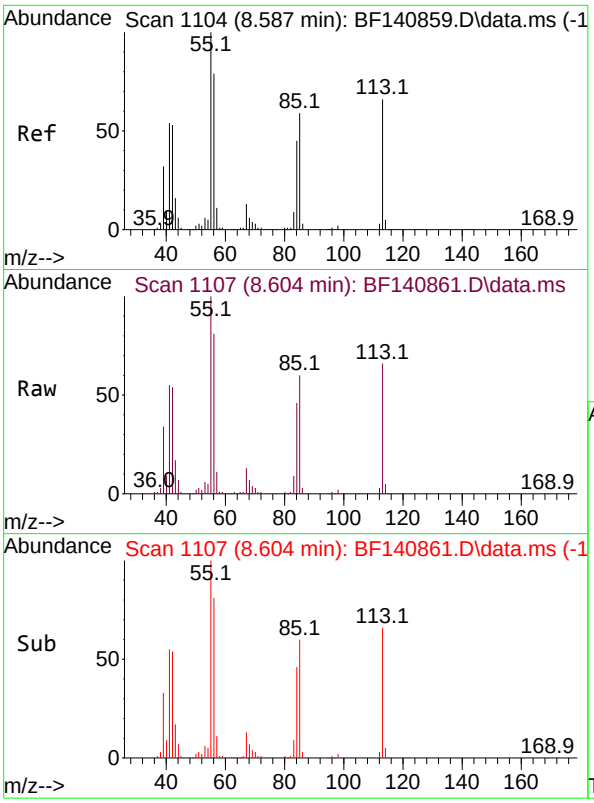


#34
Hexachlorobutadiene
Concen: 61.097 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:225 Resp: 185962

Ion	Ratio	Lower	Upper
225	100		
223	63.6	49.6	74.4
227	63.9	50.7	76.1



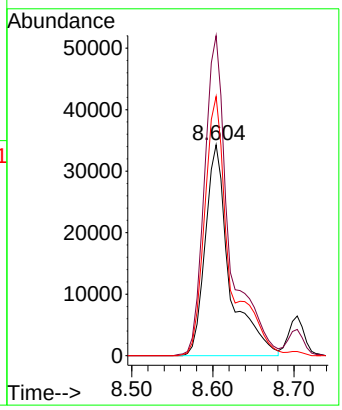


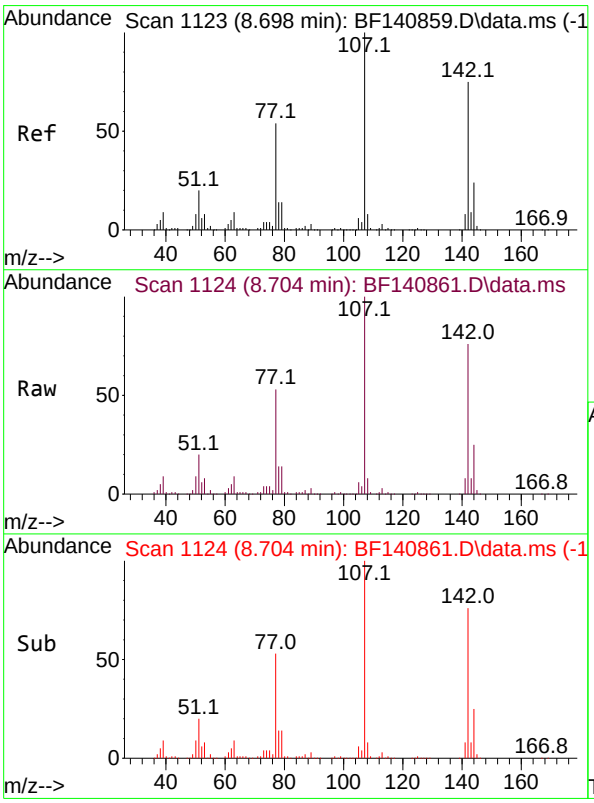
#35
Caprolactam
Concen: 60.761 ng
RT: 8.604 min Scan# 11
Delta R.T. 0.017 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 71386

Ion	Ratio	Lower	Upper
113	100		
55	151.7	132.3	172.3
56	122.9	100.3	140.3

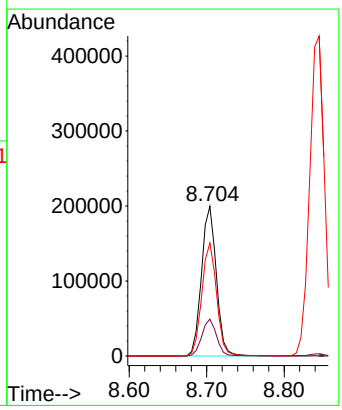


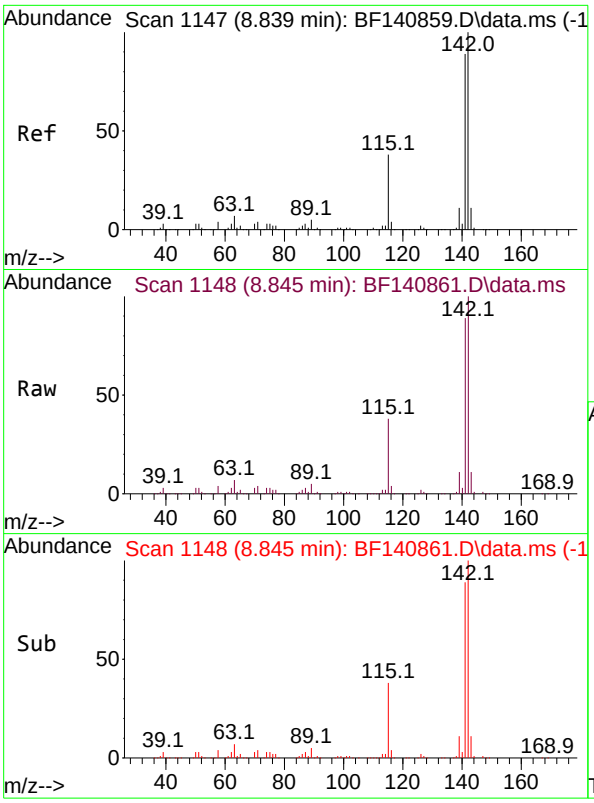


#36
4-Chloro-3-methylphenol
Concen: 59.935 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:107 Resp: 266211

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.4	29.2
142	75.5	60.3	90.5



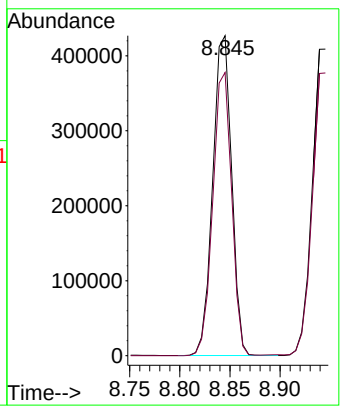


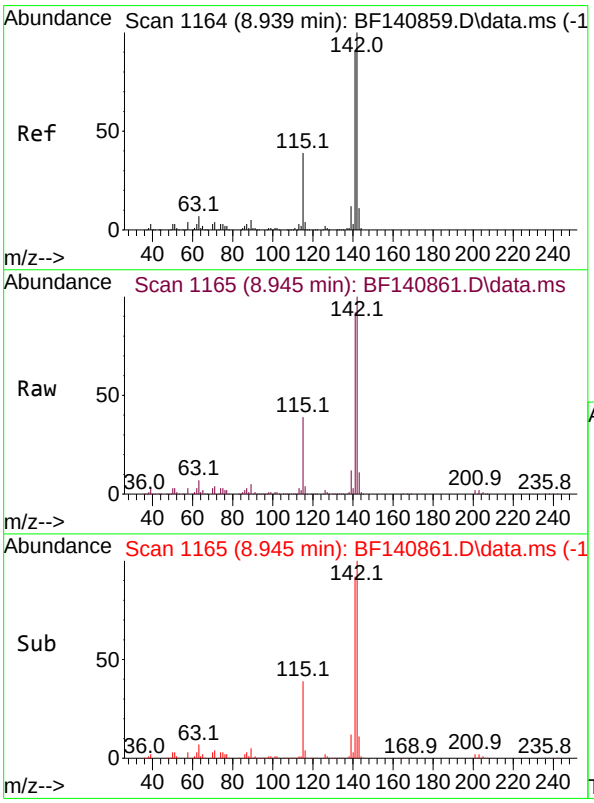
#37
2-Methylnaphthalene
Concen: 59.336 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 559572

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.0	106.6

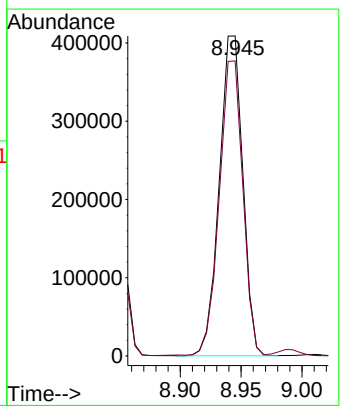


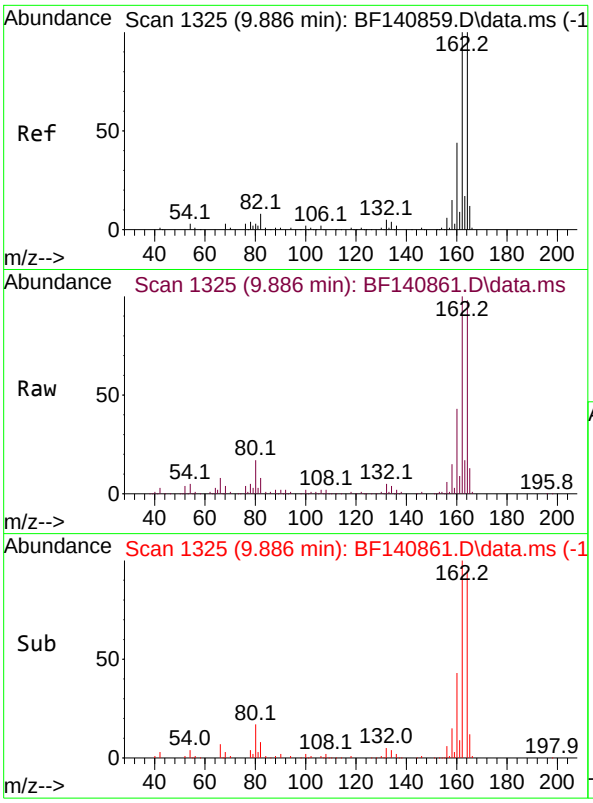


#38
1-Methylnaphthalene
Concen: 58.973 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:142 Resp: 550027

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.4	110.0



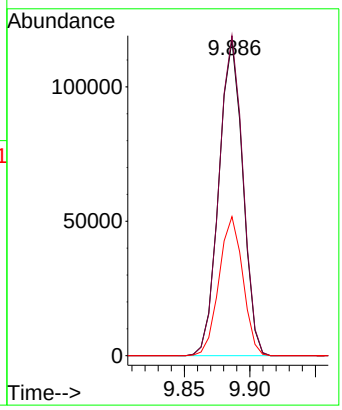


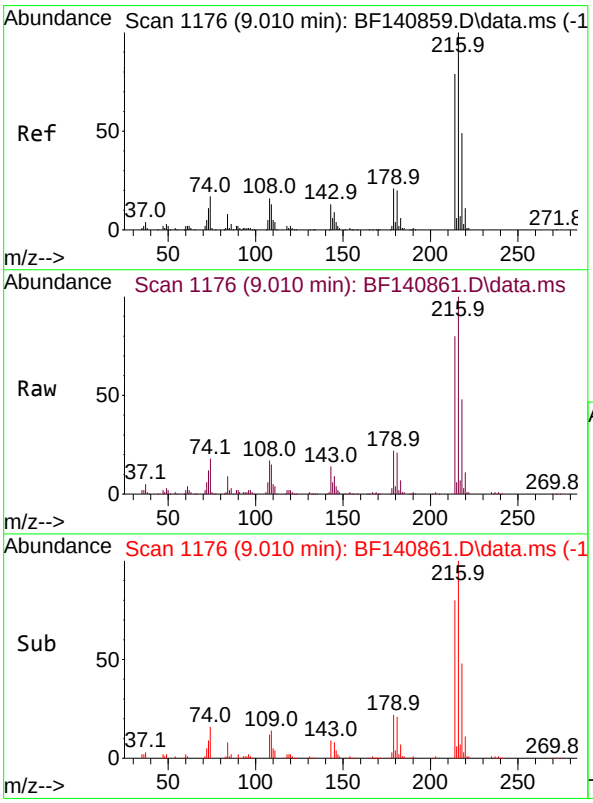
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 148549

Ion	Ratio	Lower	Upper
164	100		
162	101.6	79.9	119.9
160	44.2	35.2	52.8

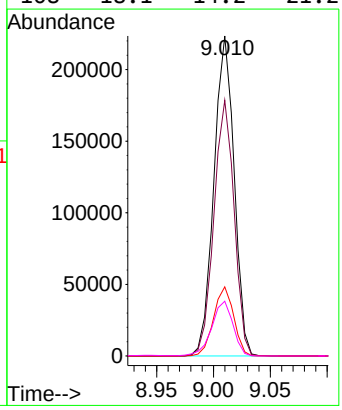


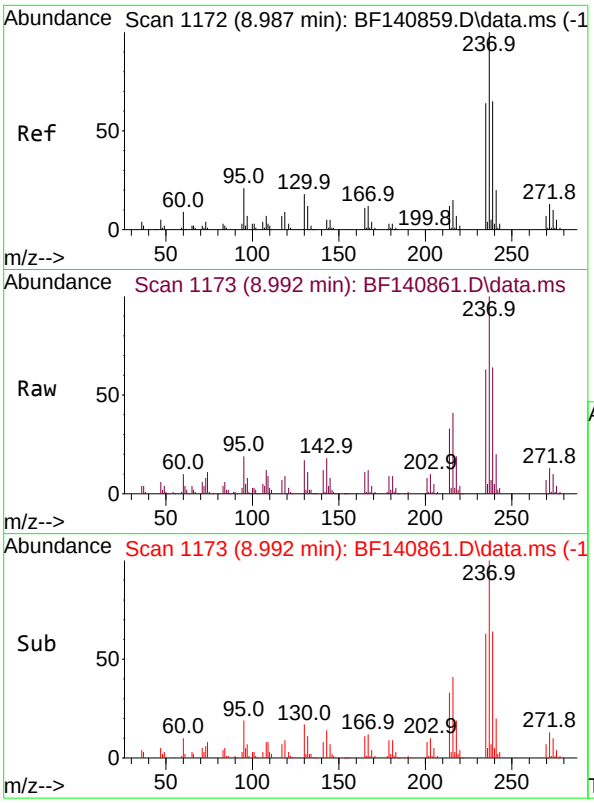


#40
1,2,4,5-Tetrachlorobenzene
Concen: 60.686 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:216 Resp: 277082

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.6	95.4
179	21.5	17.0	25.4
108	18.1	14.2	21.2



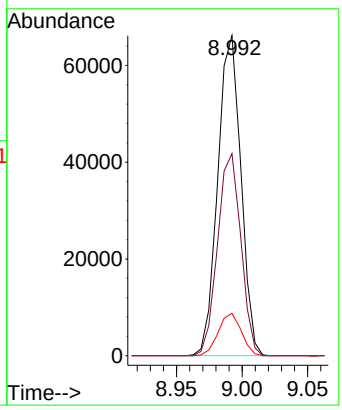


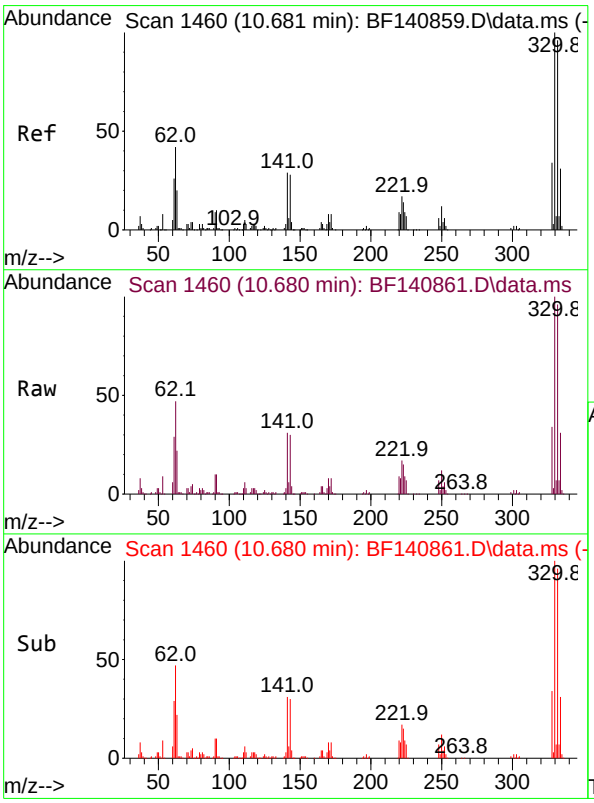
#41
Hexachlorocyclopentadiene
Concen: 60.032 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 81340

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.7	83.7
272	13.2	0.0	32.9

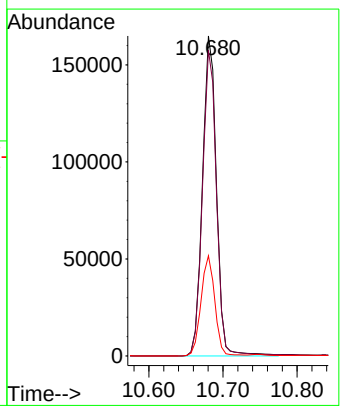


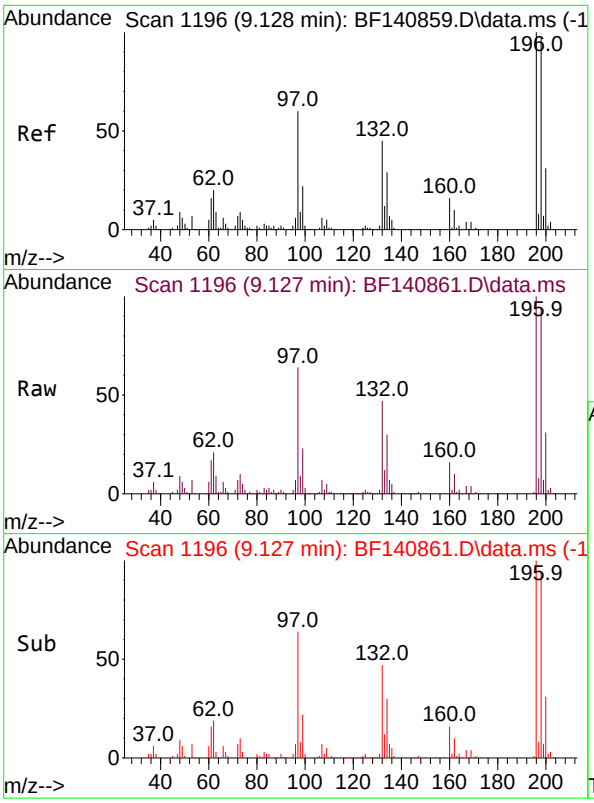


#42
2,4,6-Tribromophenol
Concen: 123.158 ng
RT: 10.680 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:330 Resp: 216378

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.2	114.4
141	30.9	24.9	37.3



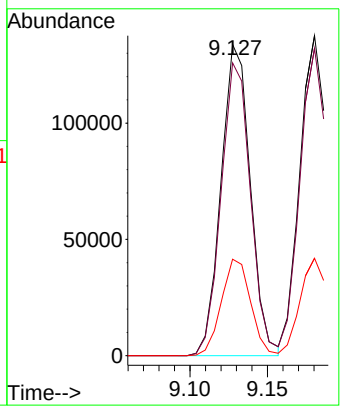


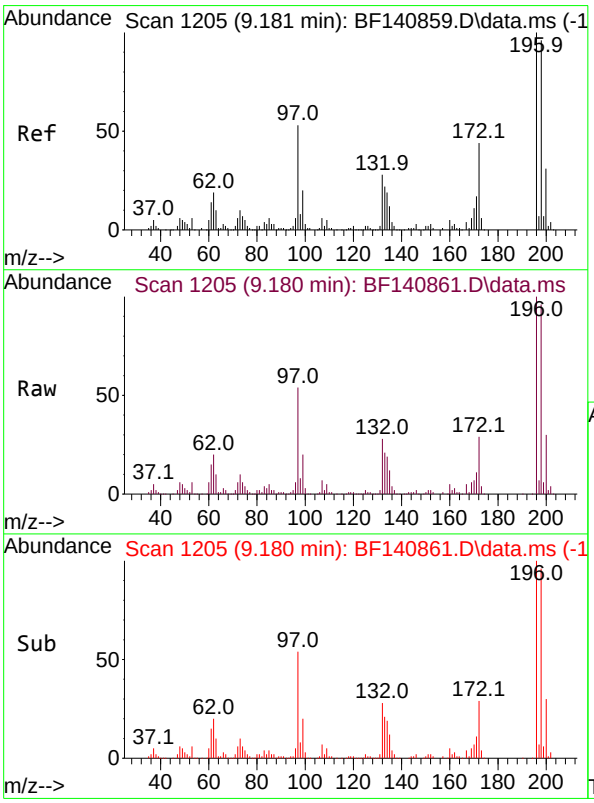
#43
2,4,6-Trichlorophenol
Concen: 63.005 ng
RT: 9.127 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 176148

Ion	Ratio	Lower	Upper
196	100		
198	94.1	77.4	116.0
200	31.0	24.5	36.7

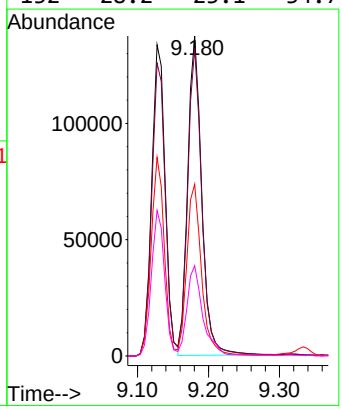


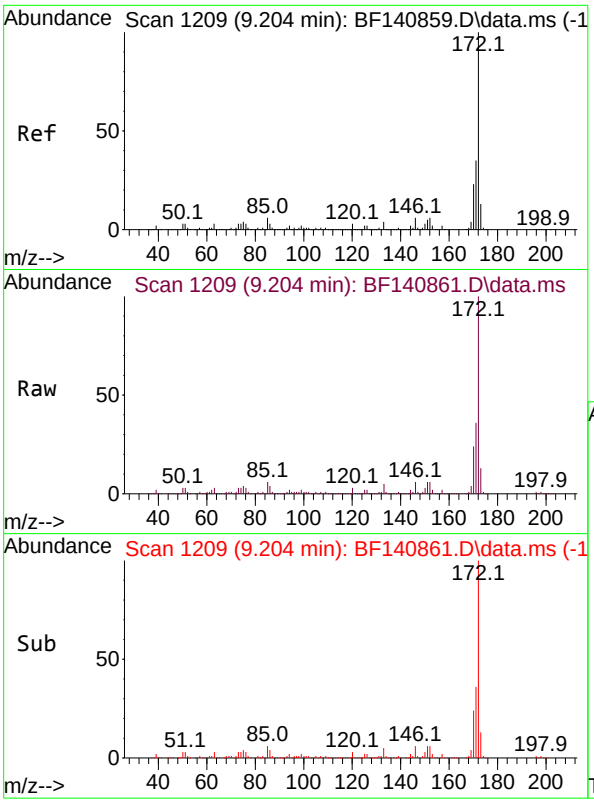


#44
2,4,5-Trichlorophenol
Concen: 61.766 ng
RT: 9.180 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:196 Resp: 189802

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.2	115.8
97	53.7	42.2	63.4
132	28.2	23.1	34.7



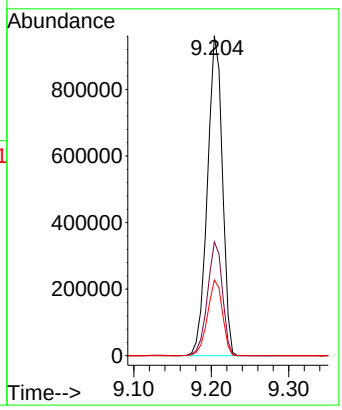


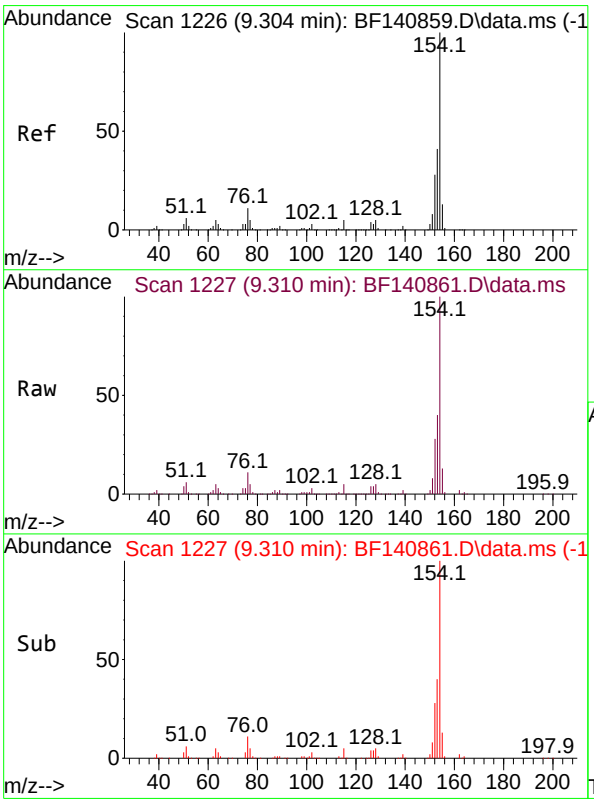
#45
2-Fluorobiphenyl
Concen: 119.184 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 1287749

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.4	42.6
170	23.6	18.6	28.0

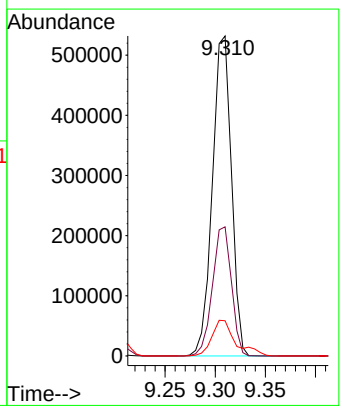


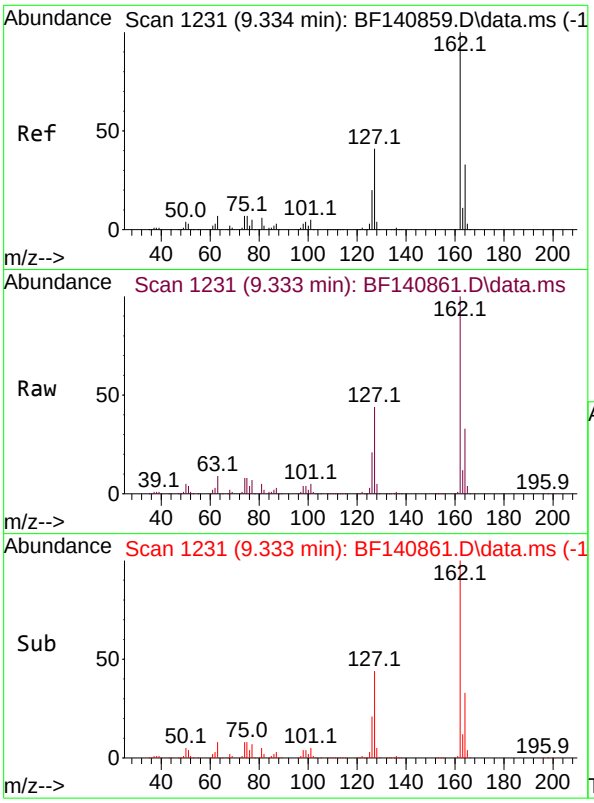


#46
1,1'-Biphenyl
Concen: 59.429 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:154 Resp: 701999

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.8	60.8
76	11.0	0.0	31.0



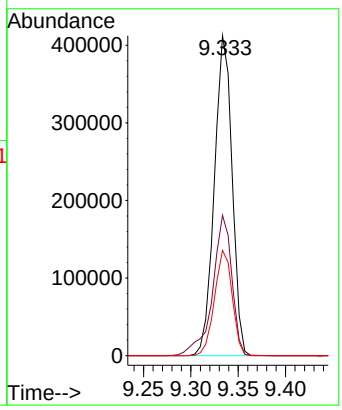


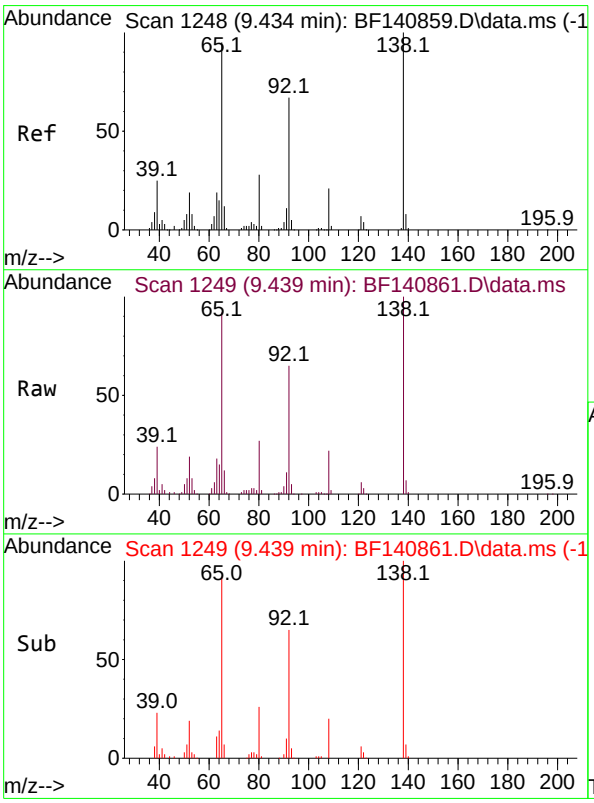
#47
2-Chloronaphthalene
Concen: 59.491 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 537602

Ion	Ratio	Lower	Upper
162	100		
127	43.9	33.5	50.3
164	32.9	26.2	39.2

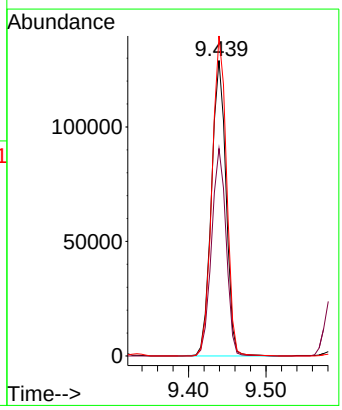


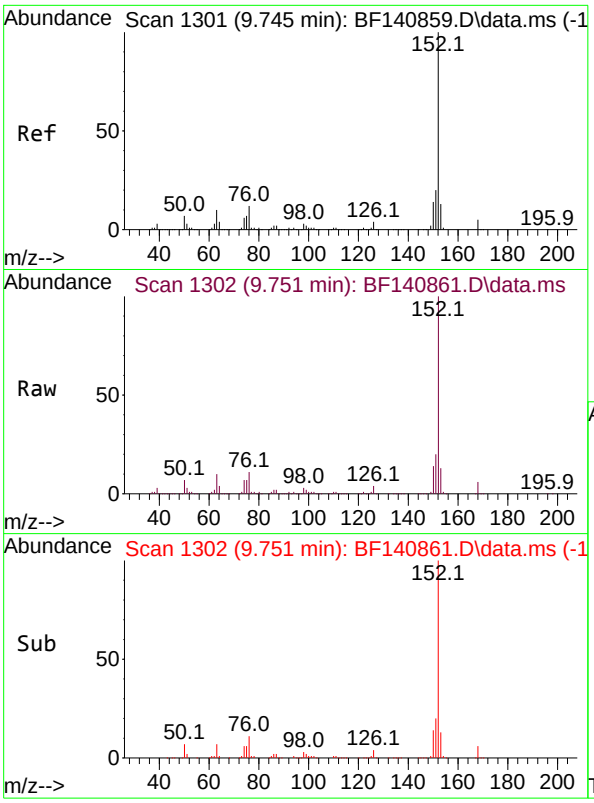


#48
2-Nitroaniline
Concen: 61.695 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion: 65 Resp: 168378

Ion	Ratio	Lower	Upper
65	100		
92	70.2	56.3	84.5
138	108.3	83.8	125.6



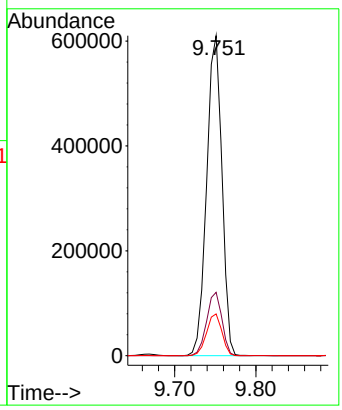


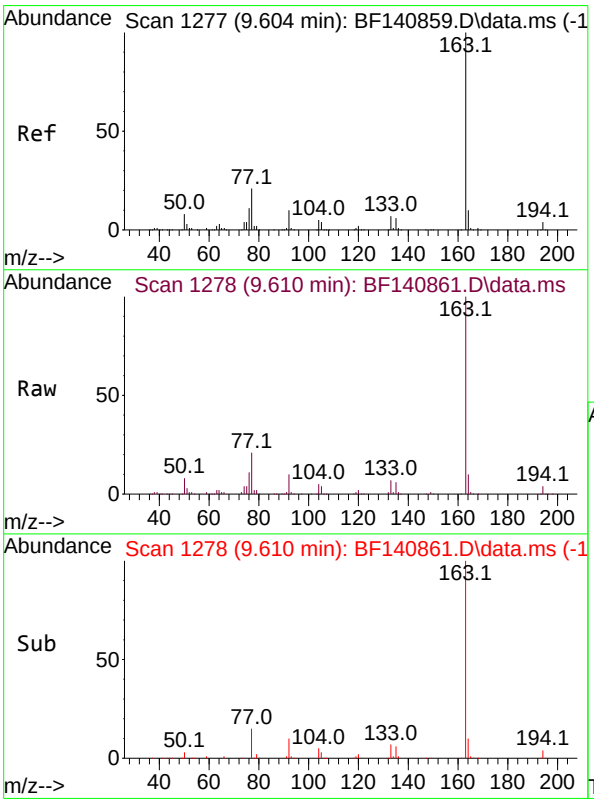
#49
Acenaphthylene
Concen: 59.836 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 794616

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.0	10.6	16.0

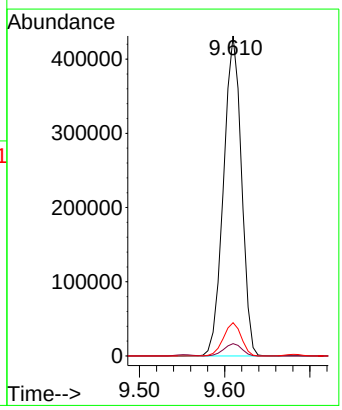


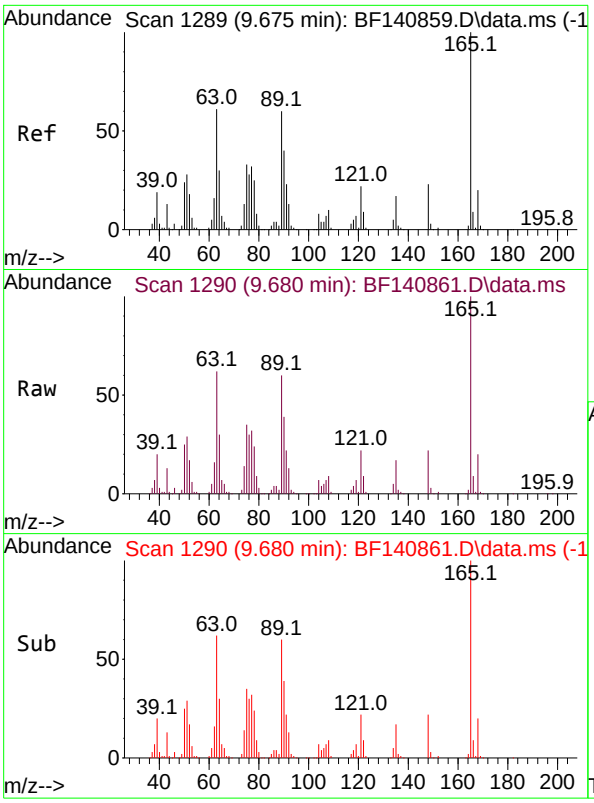


#50
Dimethylphthalate
Concen: 60.305 ng
RT: 9.610 min Scan# 1278
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:163 Resp: 631578

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.1	12.1



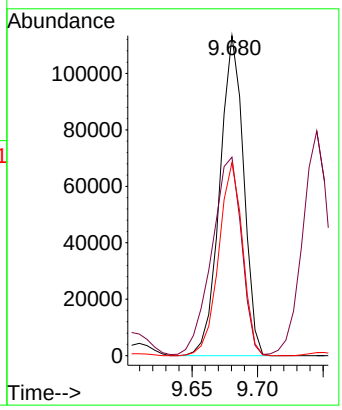


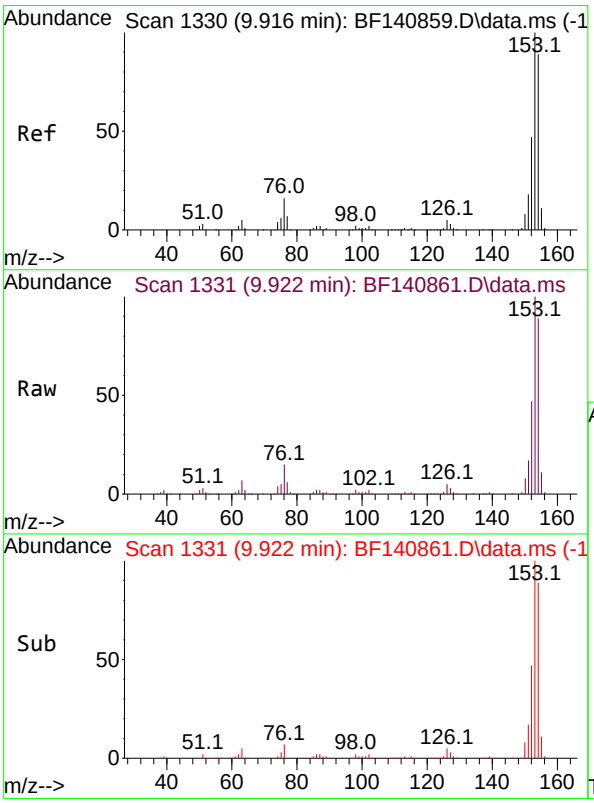
#51
2,6-Dinitrotoluene
Concen: 59.771 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 143106

Ion	Ratio	Lower	Upper
165	100		
63	62.1	49.7	74.5
89	60.3	48.2	72.4

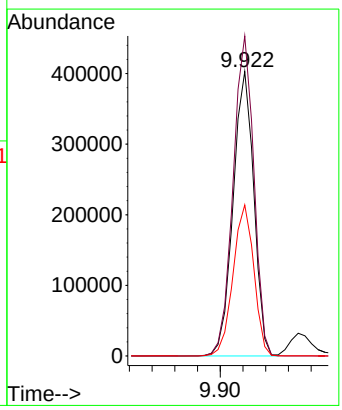


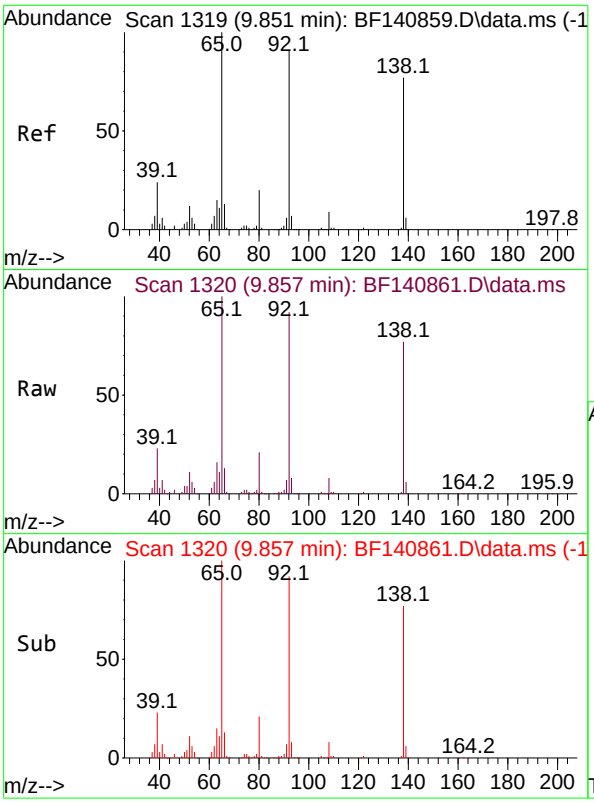


#52
Acenaphthene
Concen: 60.297 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:154 Resp: 511499

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.9	134.9
152	53.1	42.6	63.8



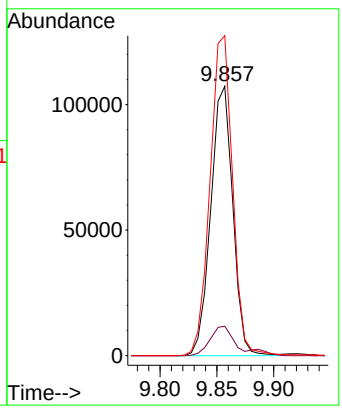


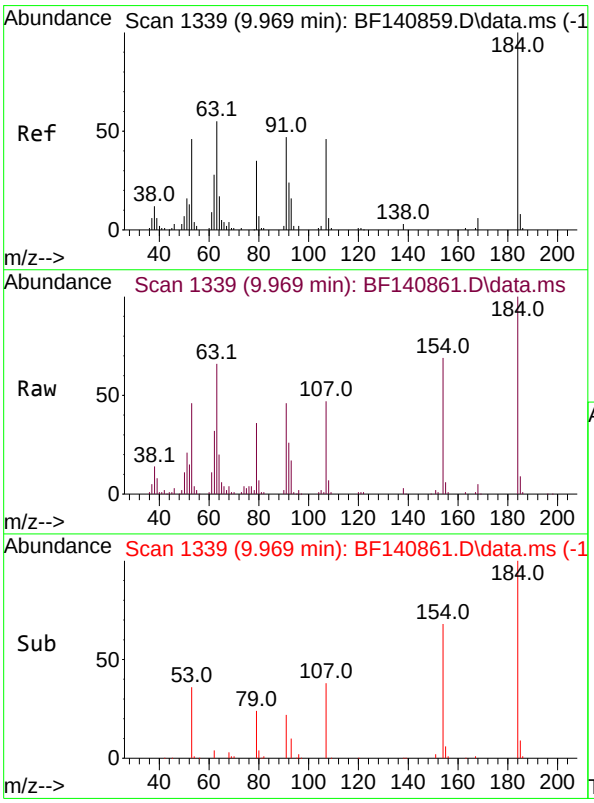
#53
3-Nitroaniline
Concen: 60.971 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 144867

Ion	Ratio	Lower	Upper
138	100		
108	10.9	9.0	13.4
92	118.7	95.5	143.3

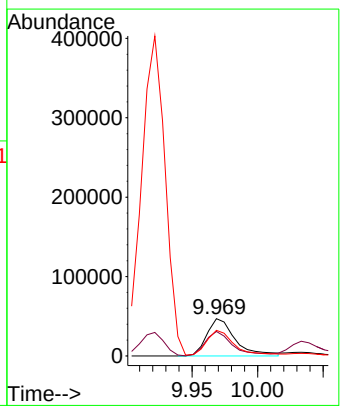


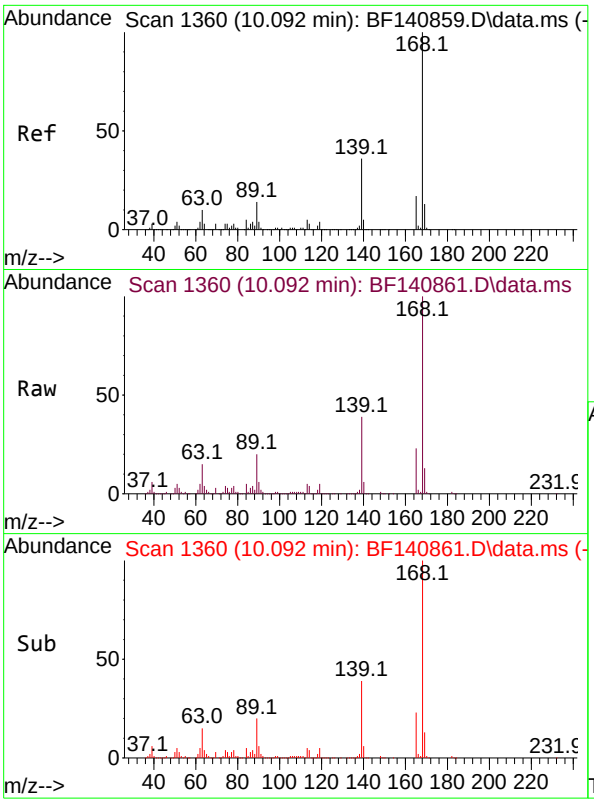


#54
2,4-Dinitrophenol
Concen: 62.619 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:184 Resp: 71344

Ion	Ratio	Lower	Upper
184	100		
63	65.5	51.6	77.4
154	68.7	56.1	84.1



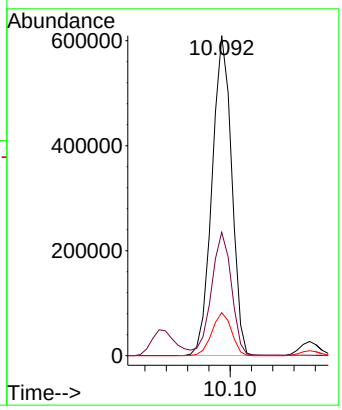


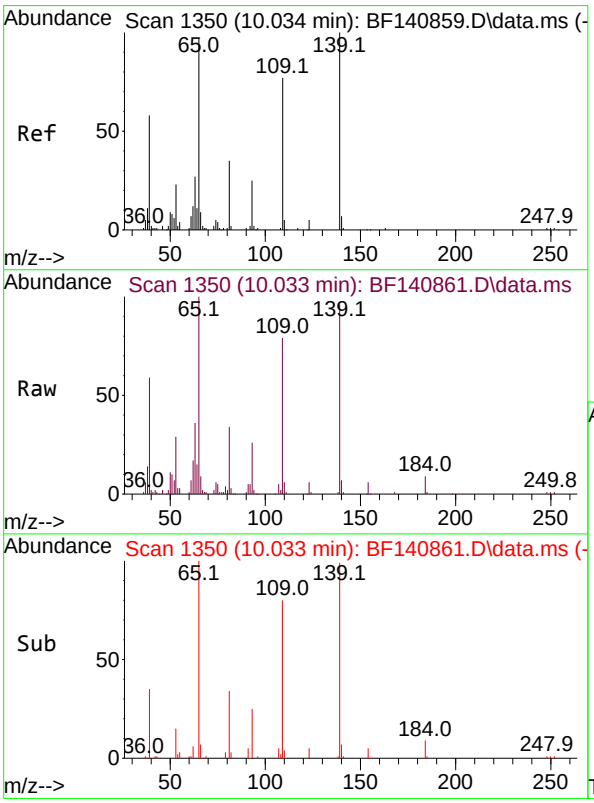
#55
Dibenzofuran
Concen: 59.193 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 778085

Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.1	46.7
169	13.5	10.6	16.0

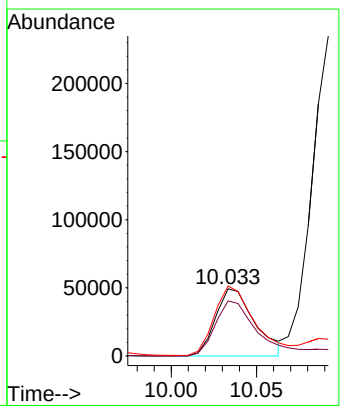


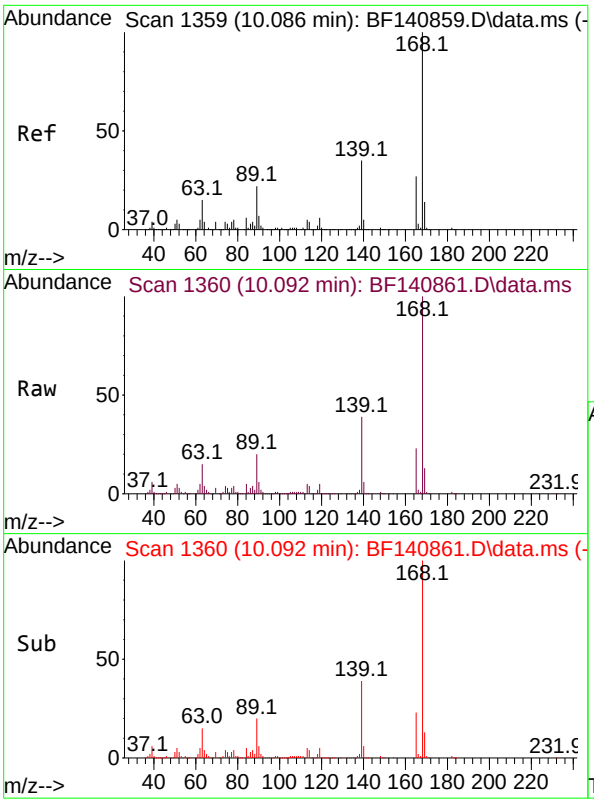


#56
4-Nitrophenol
Concen: 62.429 ng
RT: 10.033 min Scan# 1350
Delta R.T. -0.001 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:139 Resp: 78468

Ion	Ratio	Lower	Upper
139	100		
109	81.8	56.7	96.7
65	104.1	78.1	118.1



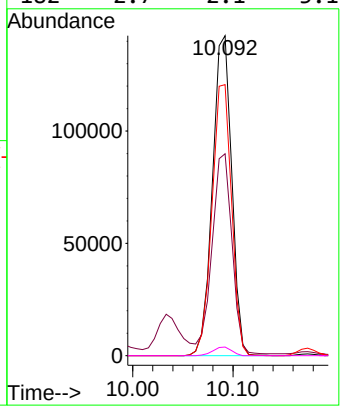


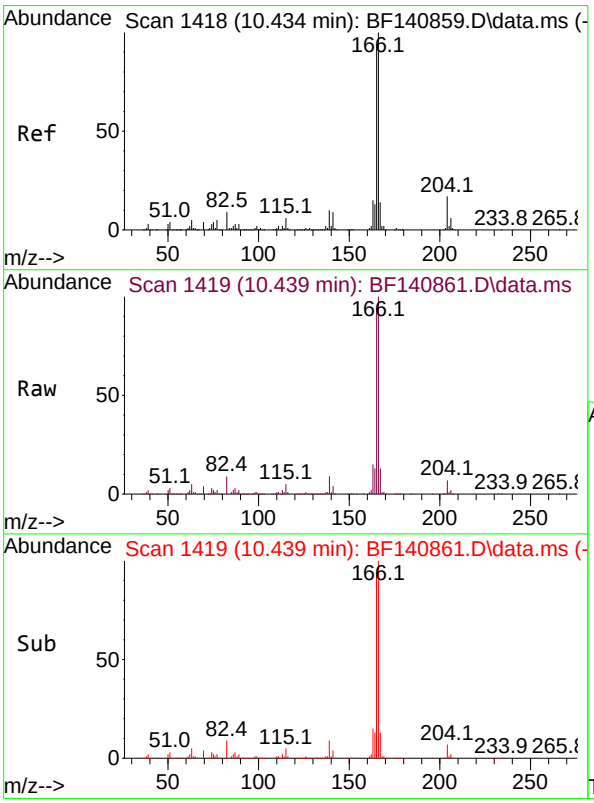
#57
2,4-Dinitrotoluene
Concen: 60.246 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 189784

Ion	Ratio	Lower	Upper
165	100		
63	63.1	49.3	73.9
89	84.7	66.2	99.4
182	2.7	2.1	3.1

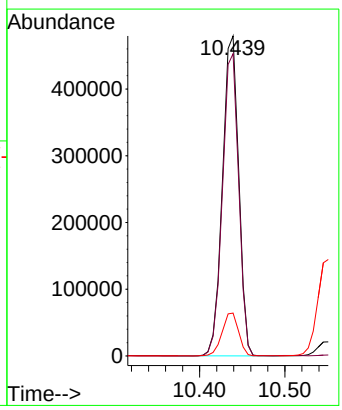


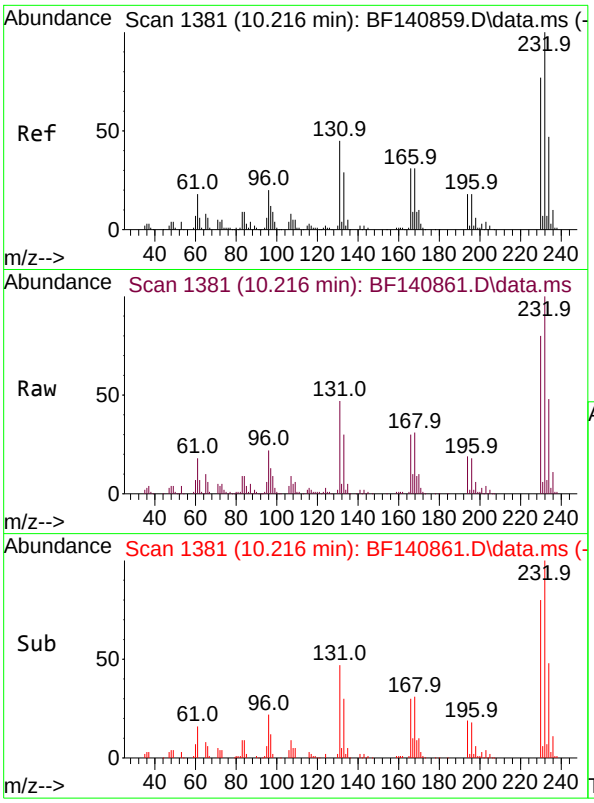


#58
Fluorene
Concen: 58.546 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:166 Resp: 634898

Ion	Ratio	Lower	Upper
166	100		
165	94.5	75.1	112.7
167	13.4	11.1	16.7



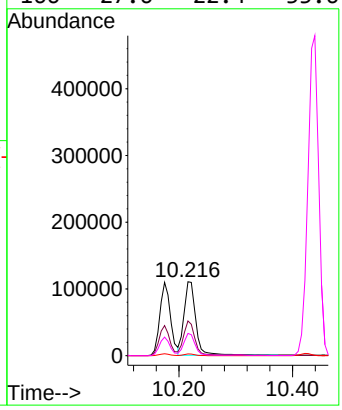


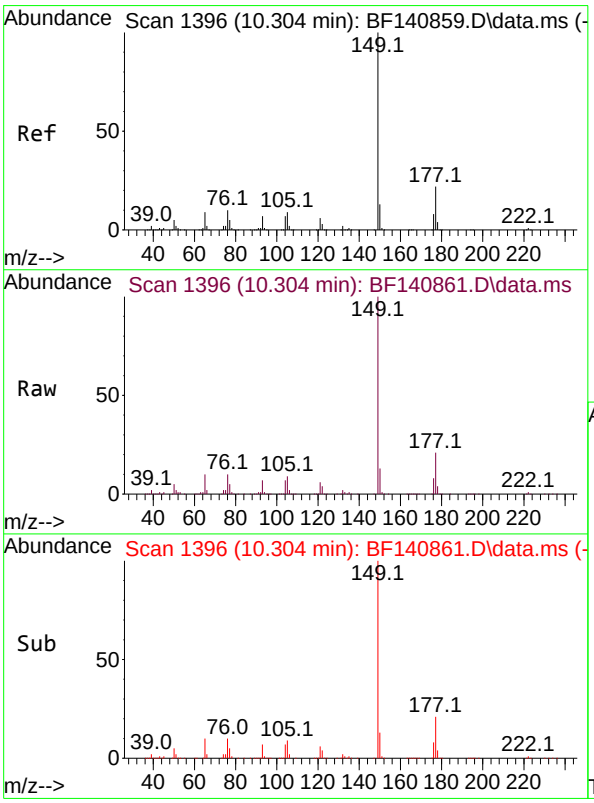
#59
2,3,4,6-Tetrachlorophenol
Concen: 63.281 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 158455

Ion	Ratio	Lower	Upper
232	100		
131	44.9	35.1	52.7
130	2.2	1.8	2.8
166	27.6	22.4	33.6

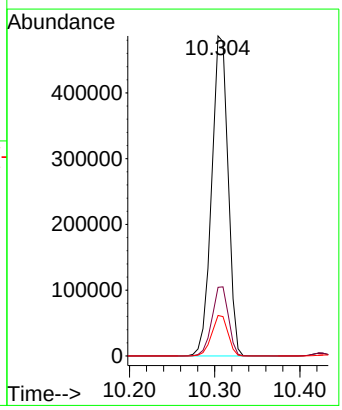


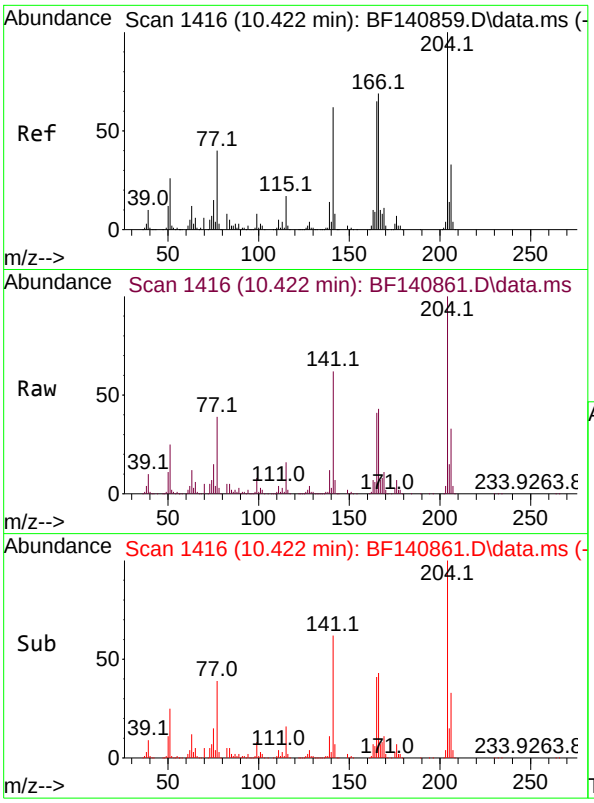


#60
Diethylphthalate
Concen: 59.961 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:149 Resp: 651190

Ion	Ratio	Lower	Upper
149	100		
177	21.4	17.2	25.8
150	12.6	10.1	15.1



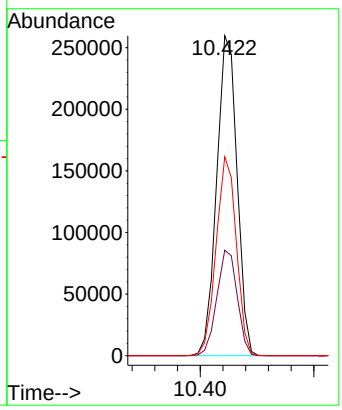


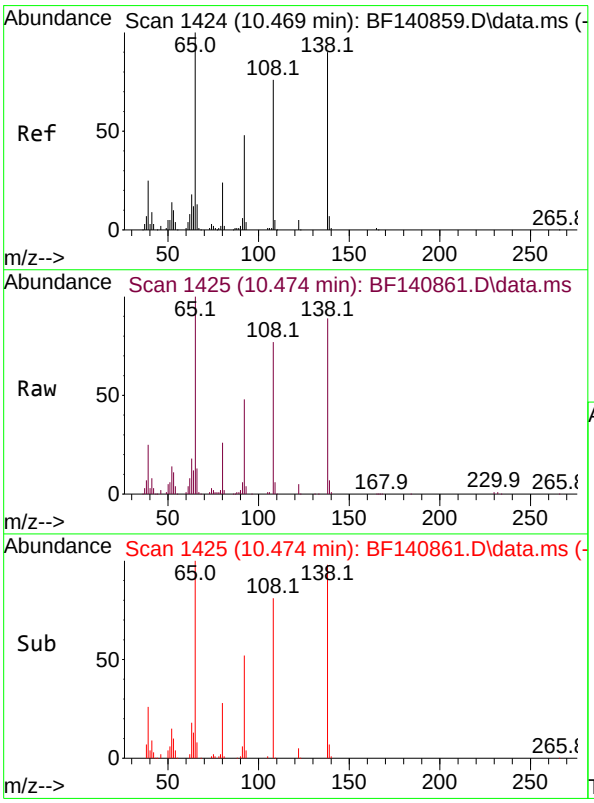
#61
4-Chlorophenyl-phenylether
Concen: 59.539 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 324333

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.5	39.7
141	62.1	50.0	75.0

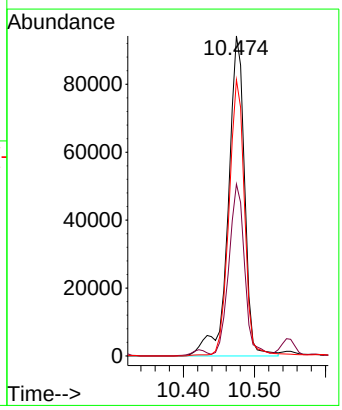


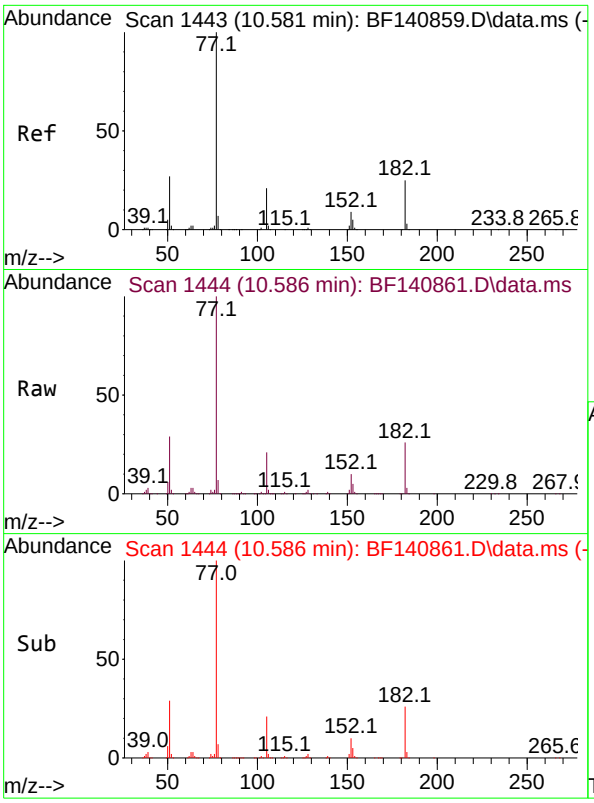


#62
4-Nitroaniline
Concen: 60.812 ng
RT: 10.474 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:138 Resp: 150990

Ion	Ratio	Lower	Upper
138	100		
92	53.7	32.6	72.6
108	86.3	64.1	104.1



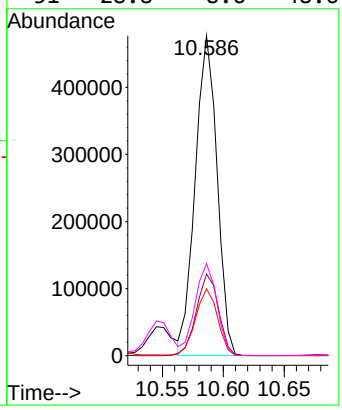


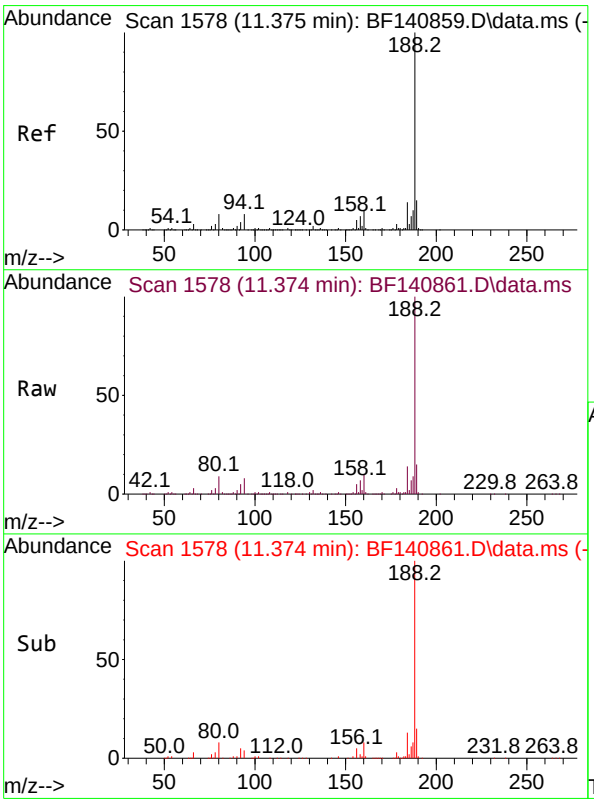
#63
Azobenzene
Concen: 58.245 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 594674

Ion	Ratio	Lower	Upper
77	100		
182	25.5	4.5	44.5
105	20.8	0.9	40.9
51	28.8	8.6	48.6

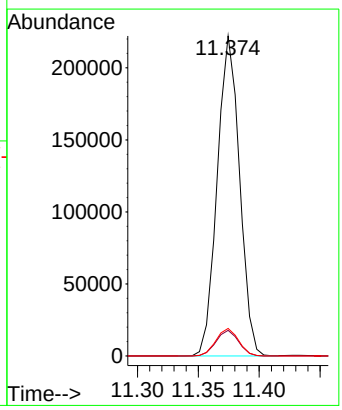


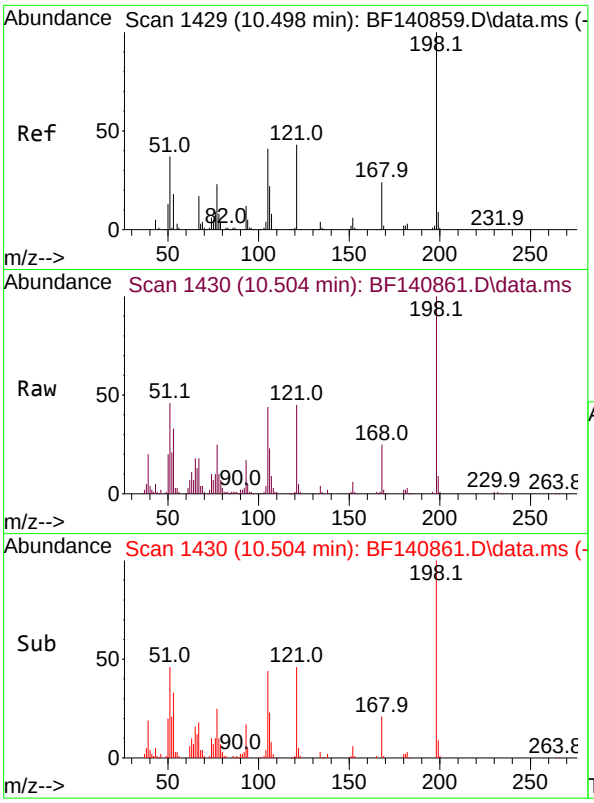


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.374 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:188 Resp: 283911

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.4	9.6
80	8.6	6.8	10.2



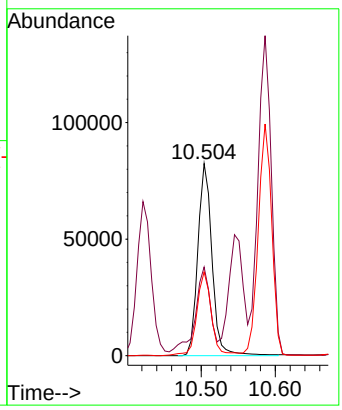


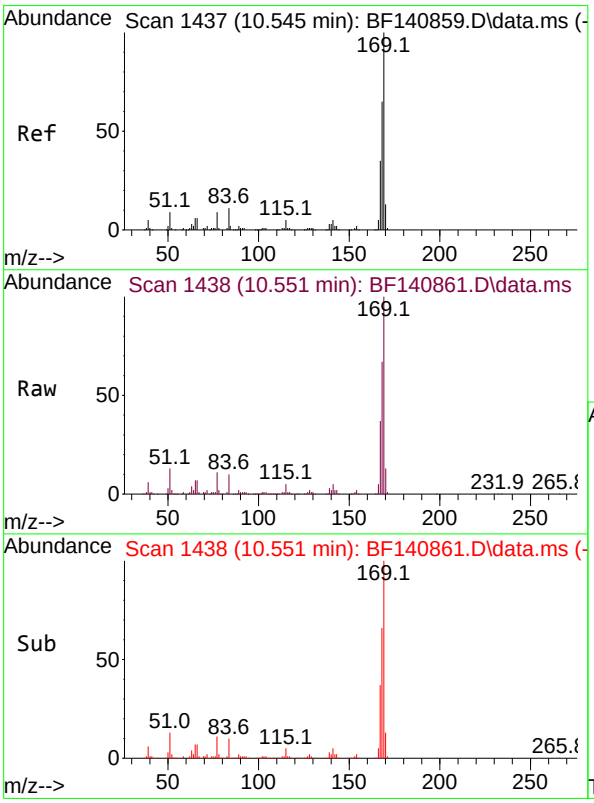
#65
4,6-Dinitro-2-methylphenol
Concen: 68.263 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 109821

Ion	Ratio	Lower	Upper
198	100		
51	46.2	24.4	64.4
105	43.6	22.1	62.1

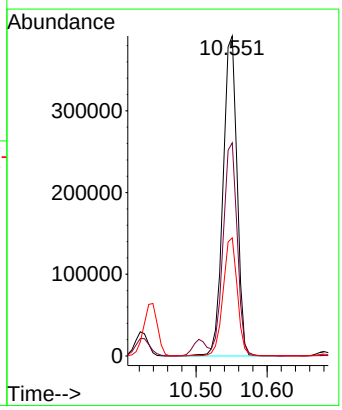


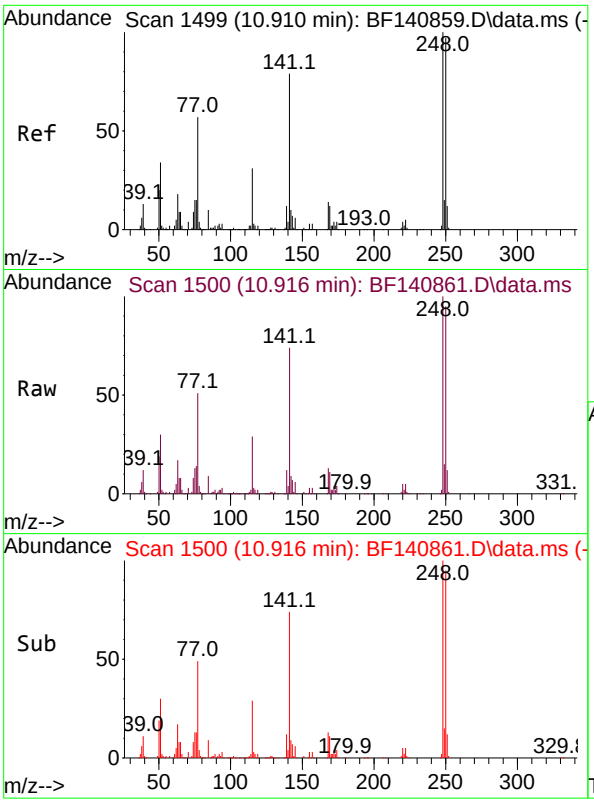


#66
n-Nitrosodiphenylamine
Concen: 61.058 ng
RT: 10.551 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:169 Resp: 532978

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.4	80.0
167	36.9	28.3	42.5



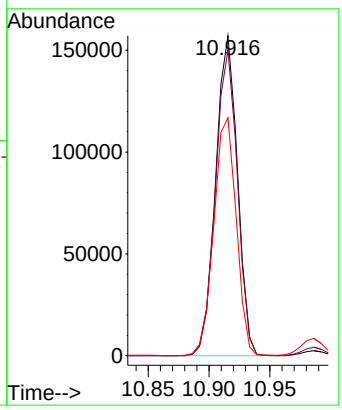


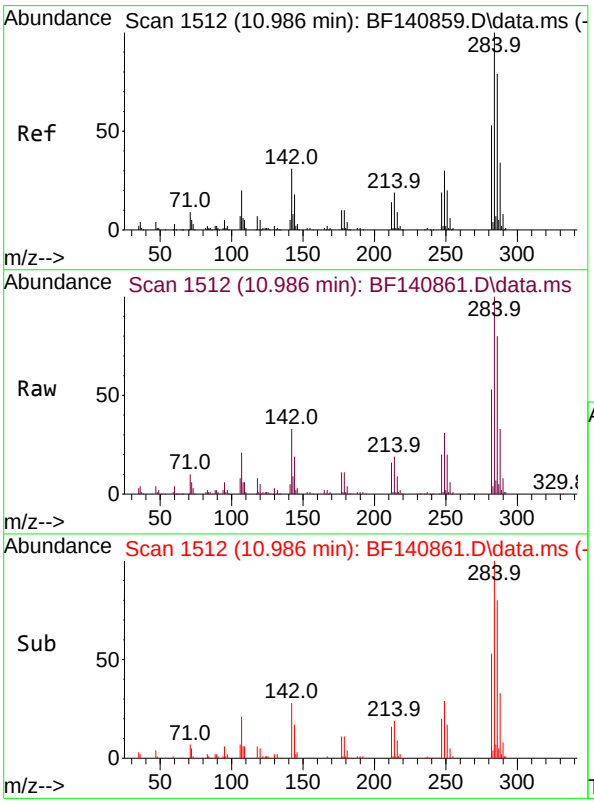
#67
4-Bromophenyl-phenylether
Concen: 61.907 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 196628

Ion	Ratio	Lower	Upper
248	100		
250	95.5	77.4	116.2
141	74.3	62.9	94.3

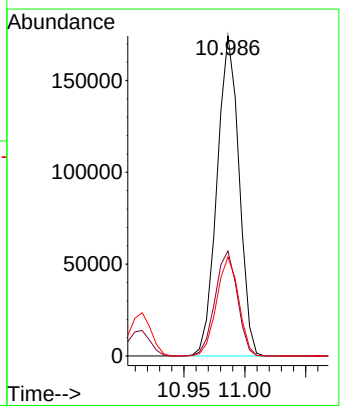


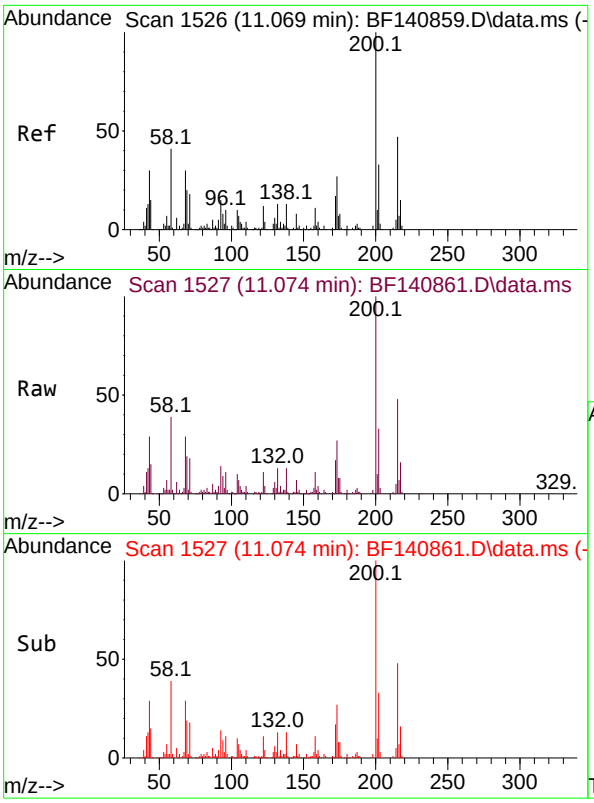


#68
Hexachlorobenzene
Concen: 61.005 ng
RT: 10.986 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:284 Resp: 219687

Ion	Ratio	Lower	Upper
284	100		
142	32.8	24.6	36.8
249	31.0	24.3	36.5



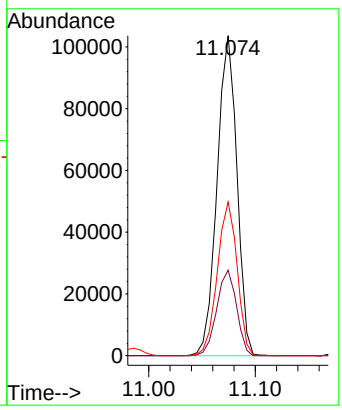


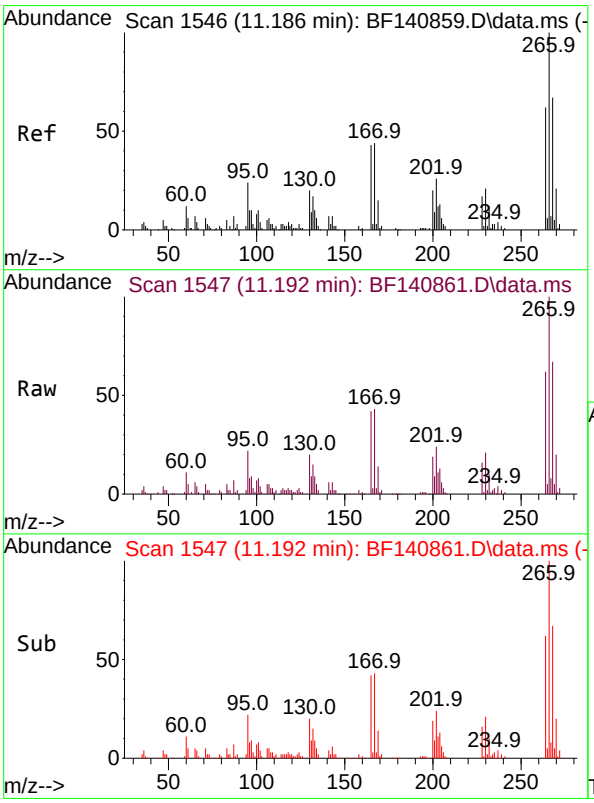
#69
Atrazine
Concen: 54.965 ng
RT: 11.074 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 134000

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.6	46.6
215	48.1	26.7	66.7

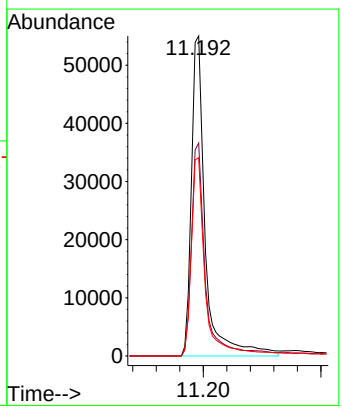


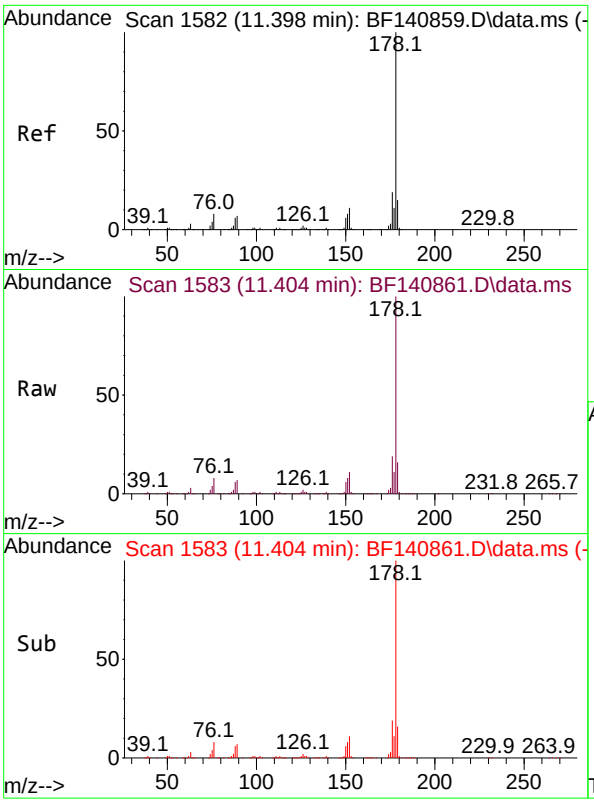


#70
Pentachlorophenol
Concen: 68.816 ng
RT: 11.192 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:266 Resp: 90656

Ion	Ratio	Lower	Upper
266	100		
268	66.6	54.0	81.0
264	62.0	49.4	74.2



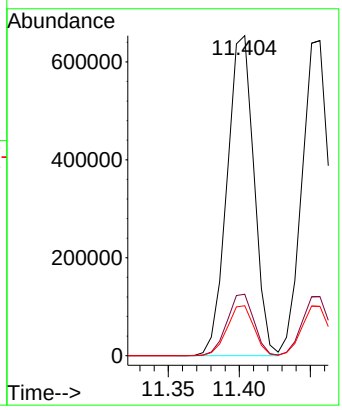


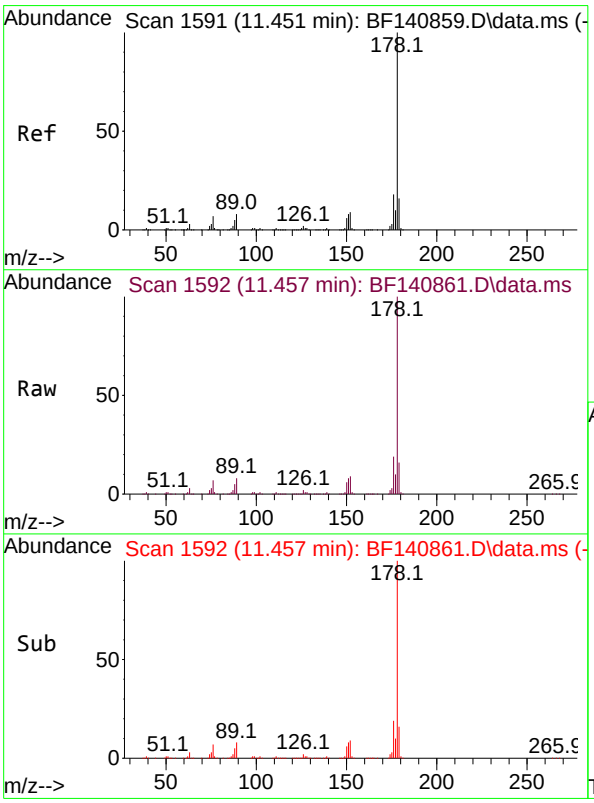
#71
Phenanthrene
Concen: 59.118 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 863112

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.6	12.1	18.1

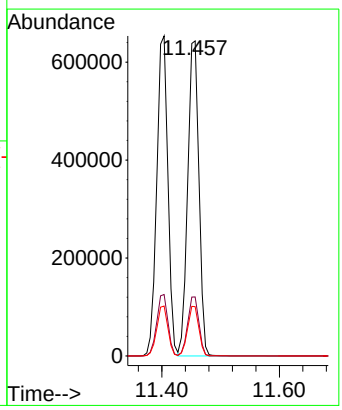


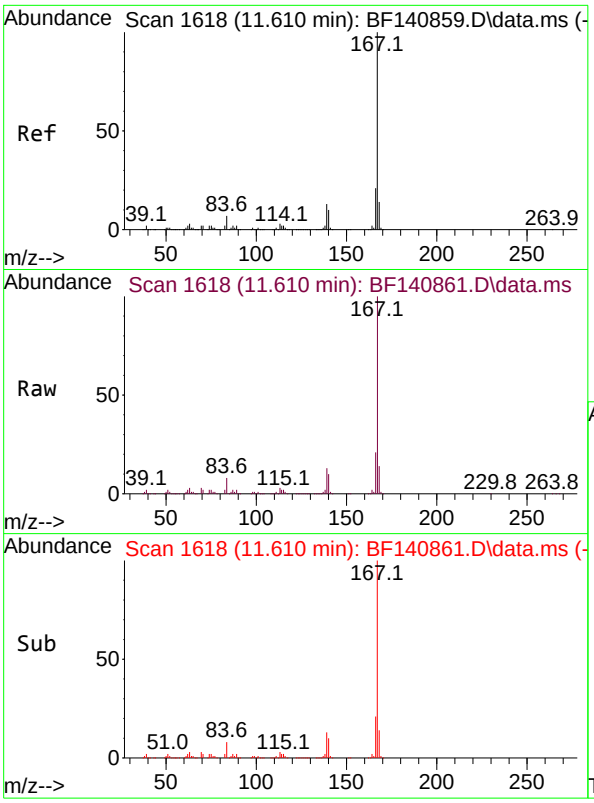


#72
Anthracene
Concen: 59.213 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:178 Resp: 851368

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.6	12.6	18.8



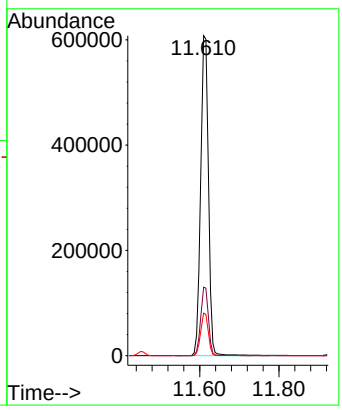


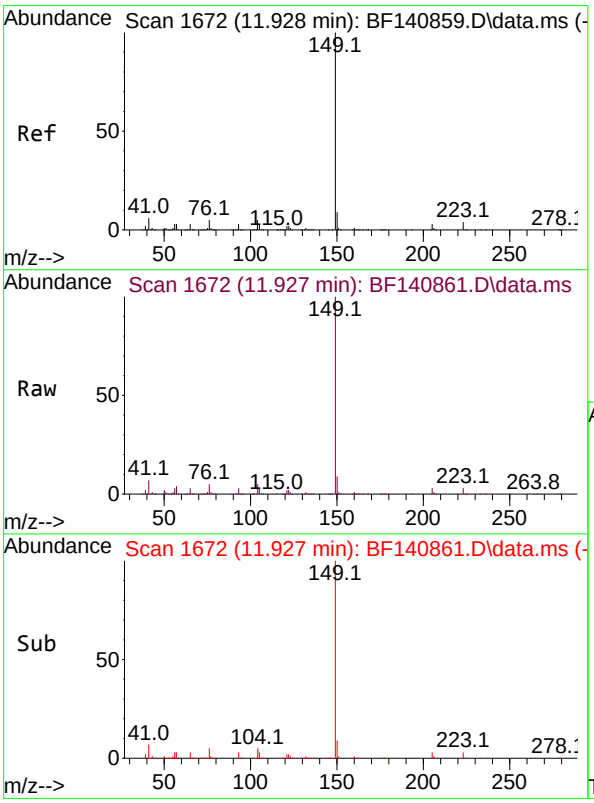
#73
Carbazole
Concen: 58.682 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 826415

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	13.3	10.2	15.2

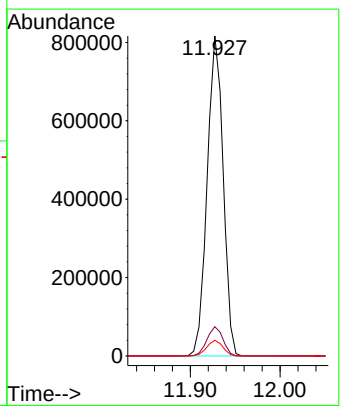


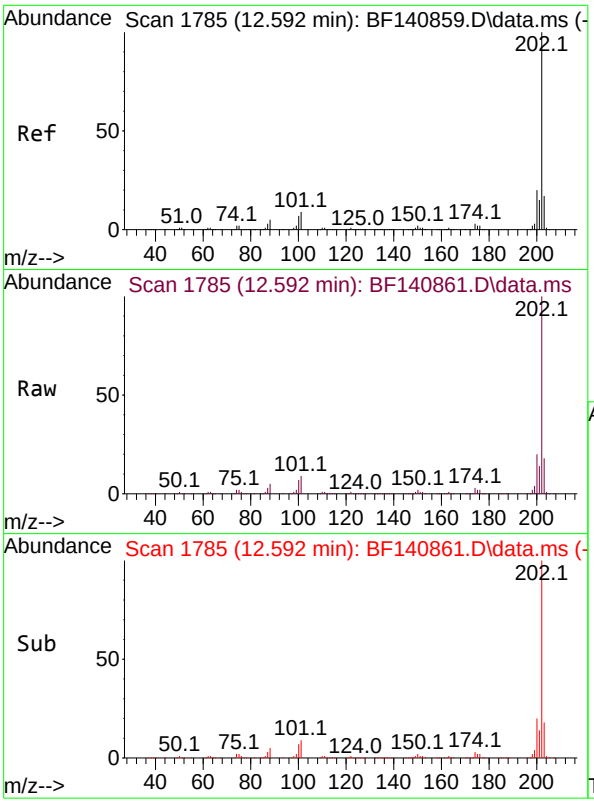


#74
Di-n-butylphthalate
Concen: 61.102 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:149 Resp: 1009898

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.5	11.3
104	4.9	3.8	5.8



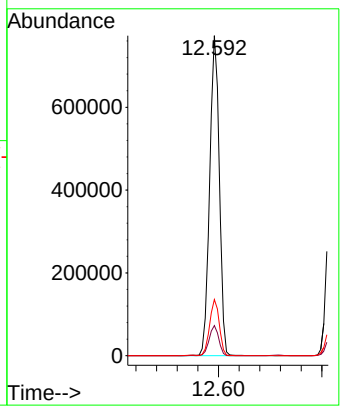


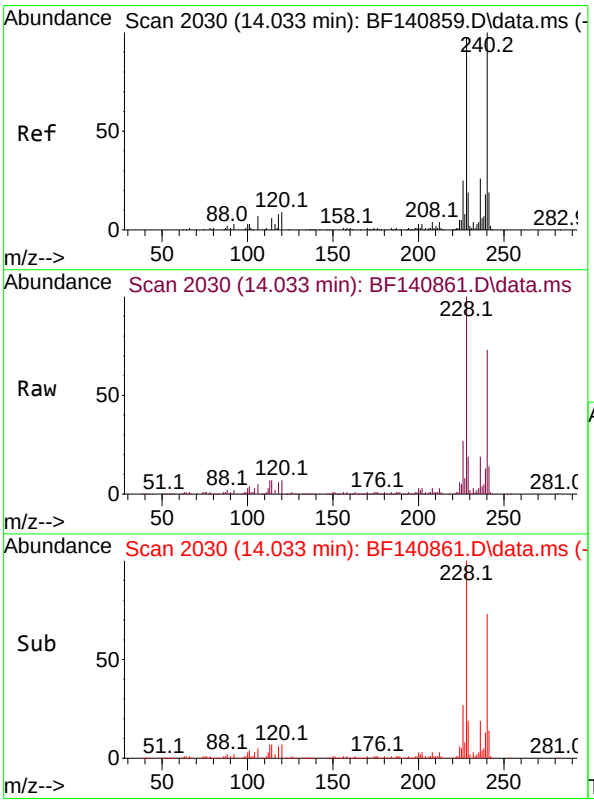
#75
Fluoranthene
Concen: 59.520 ng
RT: 12.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 1000773

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.3
203	17.5	0.0	37.4

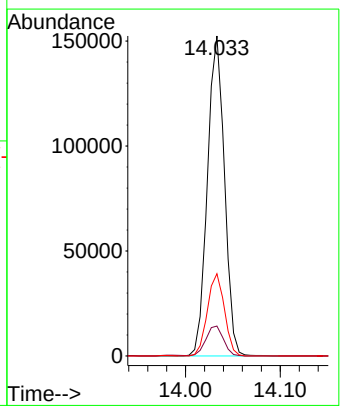


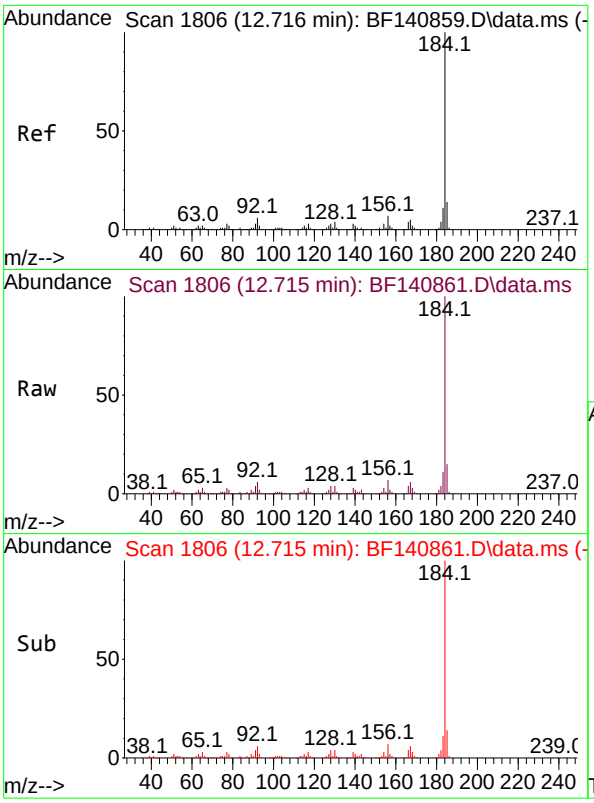


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:240 Resp: 189956

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.6	11.4
236	25.7	20.5	30.7



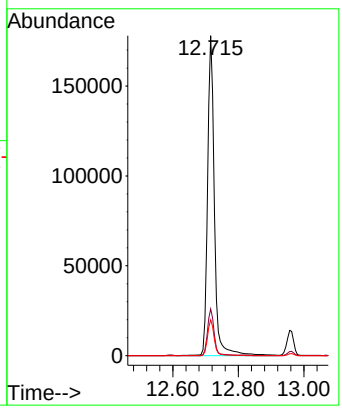


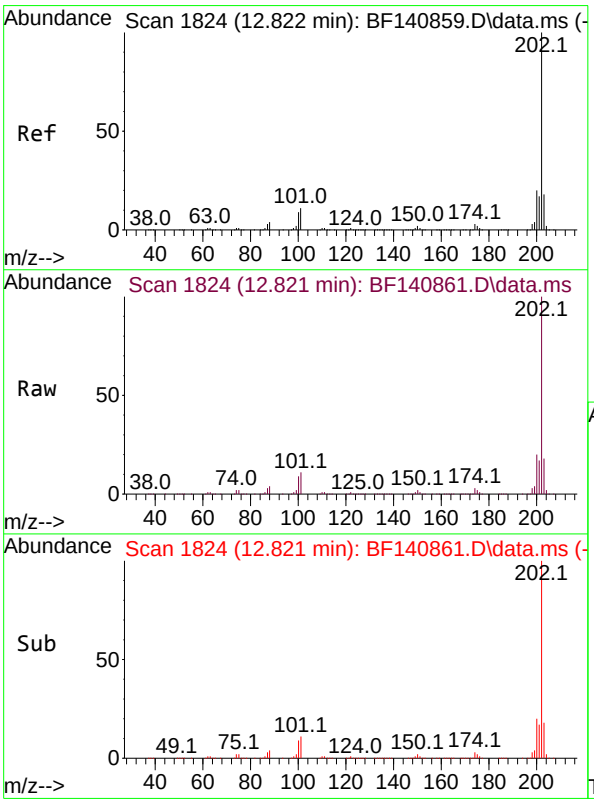
#77
Benzidine
Concen: 66.762 ng
RT: 12.715 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 258833

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.1	16.7
183	11.2	9.0	13.4

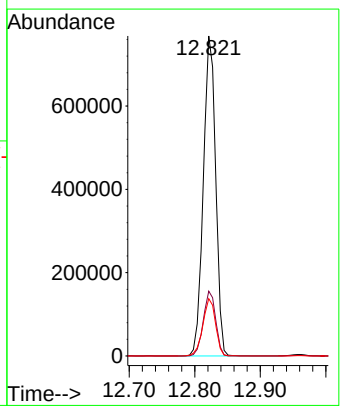


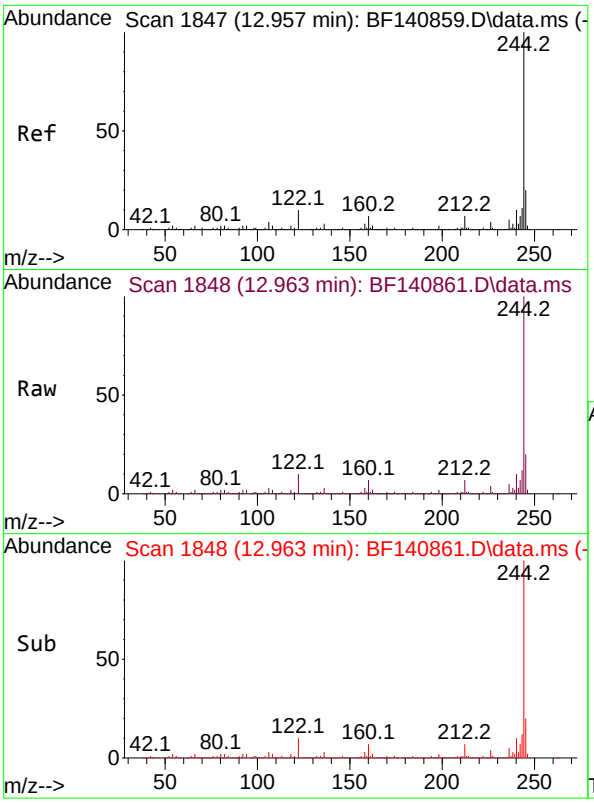


#78
Pyrene
Concen: 59.679 ng
RT: 12.821 min Scan# 1824
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:202 Resp: 1008093

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.9	14.2	21.4



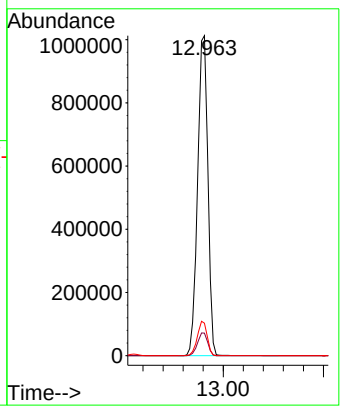


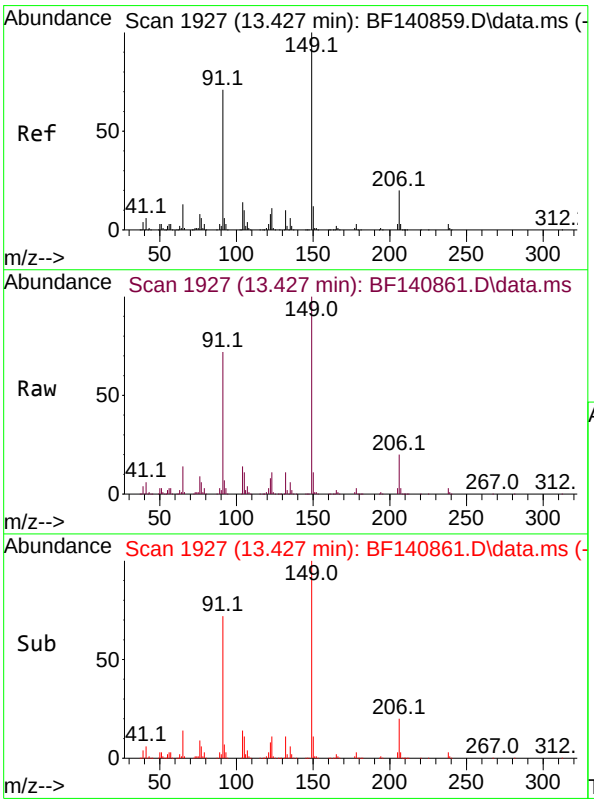
#79
Terphenyl-d14
Concen: 119.191 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 1435829

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	10.2	8.2	12.2

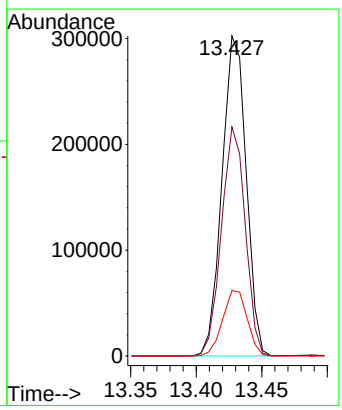


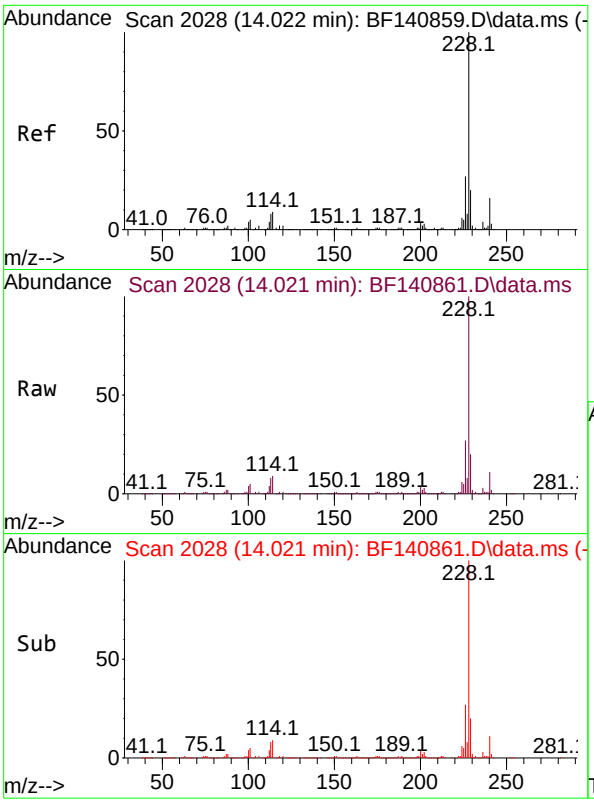


#80
Butylbenzylphthalate
Concen: 62.410 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:149 Resp: 387906

Ion	Ratio	Lower	Upper
149	100		
91	71.6	56.7	85.1
206	20.5	16.4	24.6



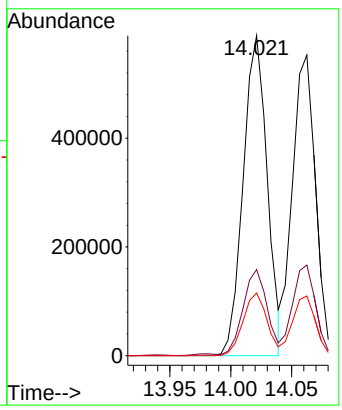


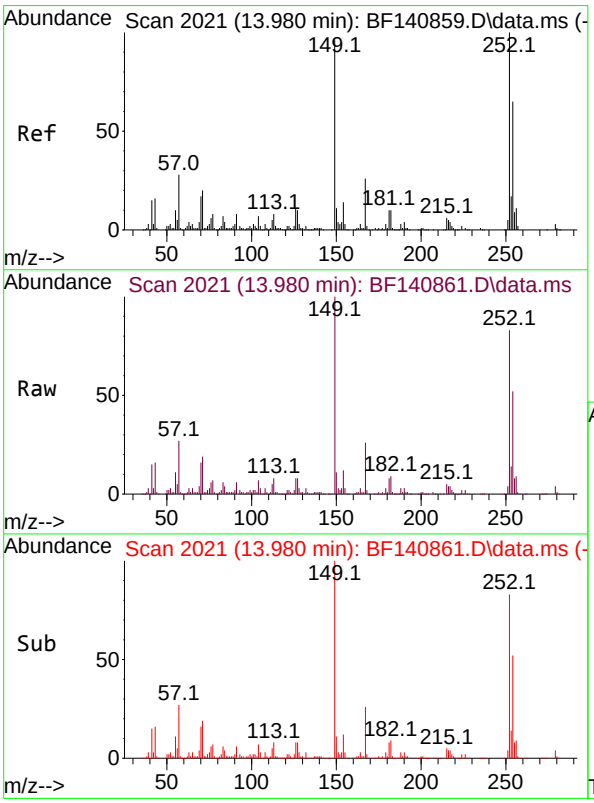
#81
Benzo(a)anthracene
Concen: 60.019 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 808026

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.6	15.8	23.8

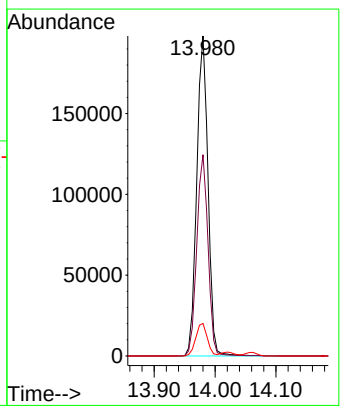


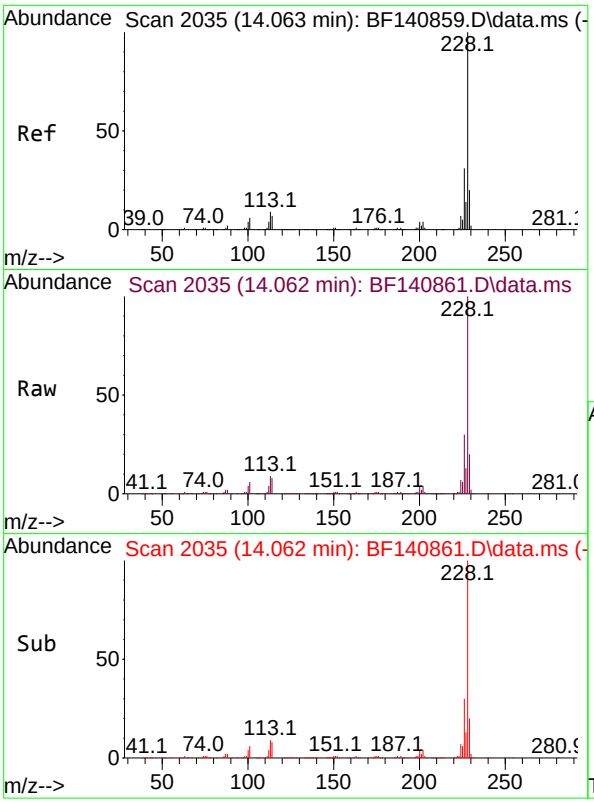


#82
3,3'-Dichlorobenzidine
Concen: 62.622 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:252 Resp: 254358

Ion	Ratio	Lower	Upper
252	100		
254	62.9	52.3	78.5
126	10.2	8.4	12.6



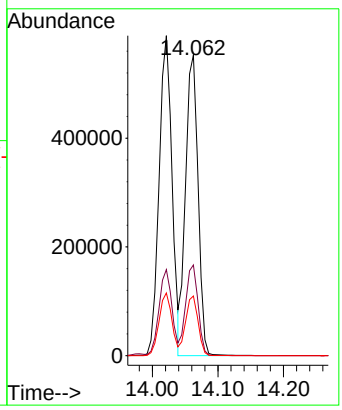


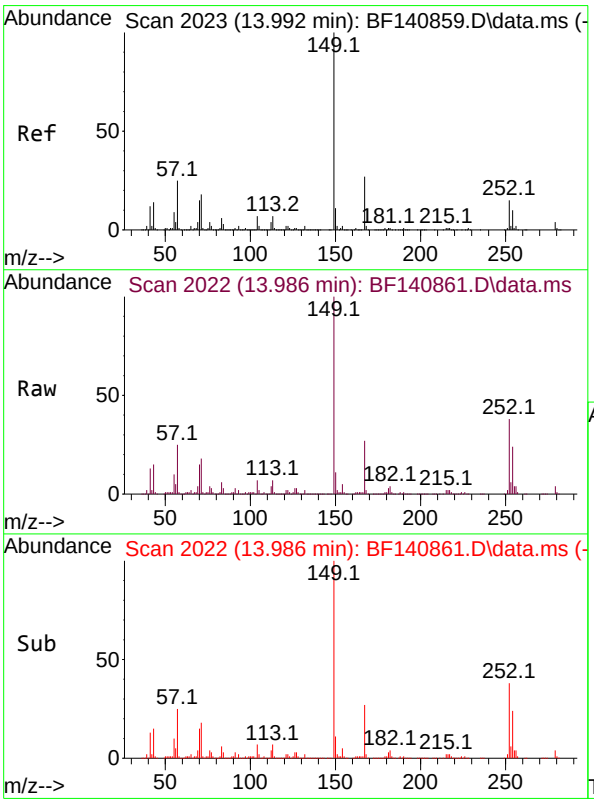
#83
Chrysene
Concen: 59.712 ng
RT: 14.062 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 731004

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.8	16.0	24.0

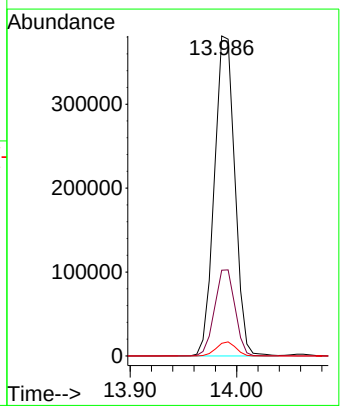


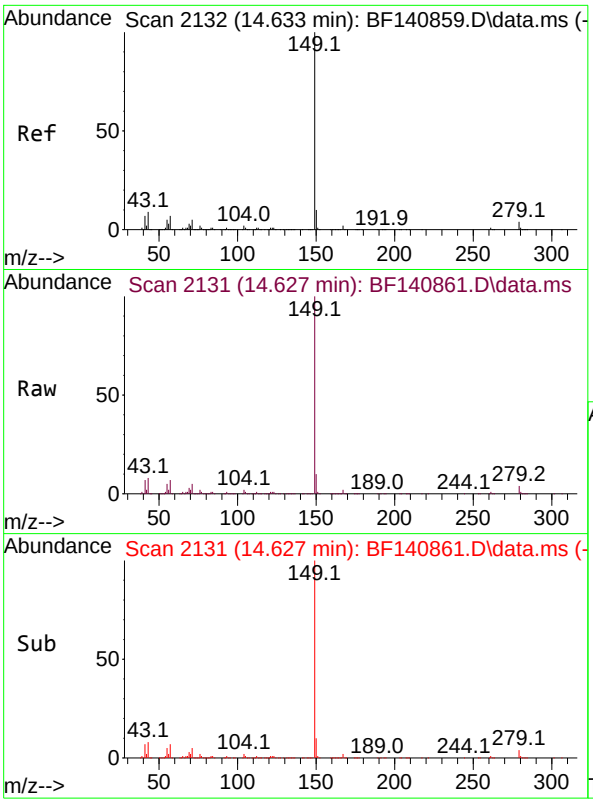


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.289 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:149 Resp: 507221

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.8	32.8
279	4.0	3.5	5.3



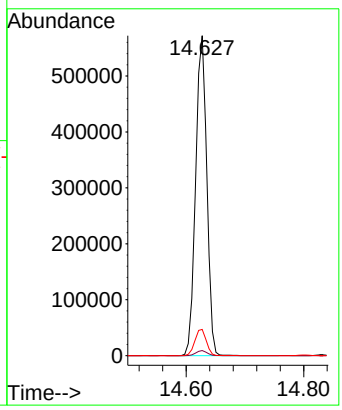


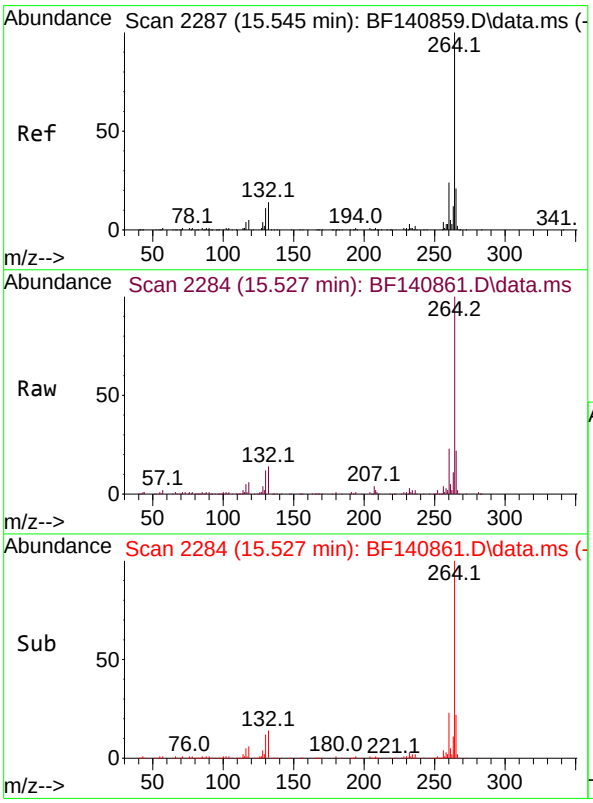
#85
Di-n-octyl phthalate
Concen: 62.220 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 754409

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	7.0	10.6

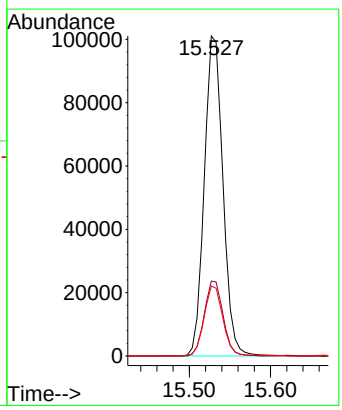


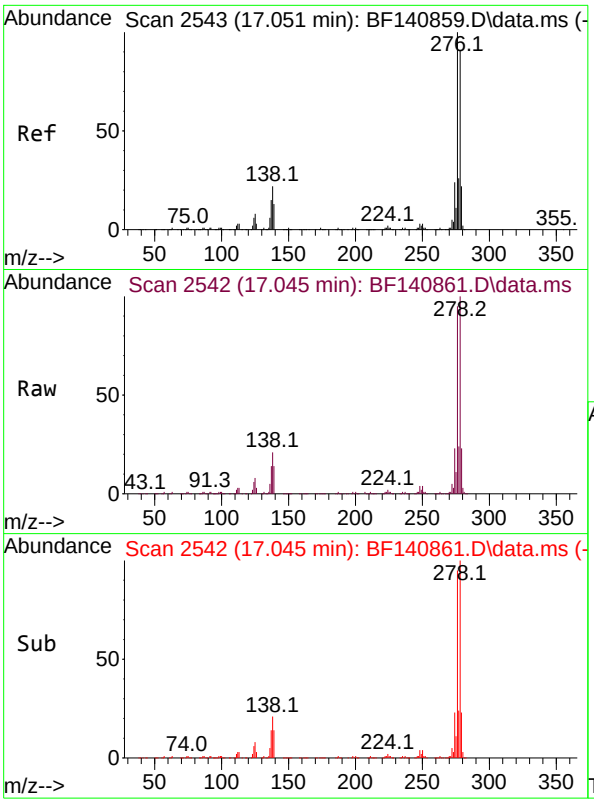


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.018 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:264 Resp: 161062

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.9	17.0	25.4



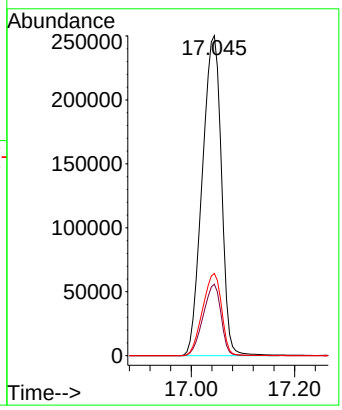


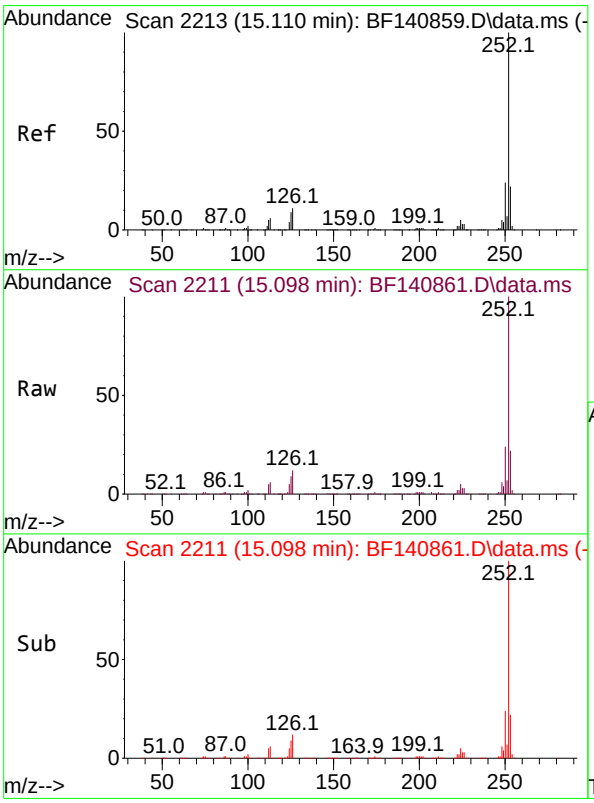
#87
Indeno(1,2,3-cd)pyrene
Concen: 63.934 ng
RT: 17.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 642591

Ion	Ratio	Lower	Upper
276	100		
138	20.9	16.9	25.3
277	25.5	20.2	30.4

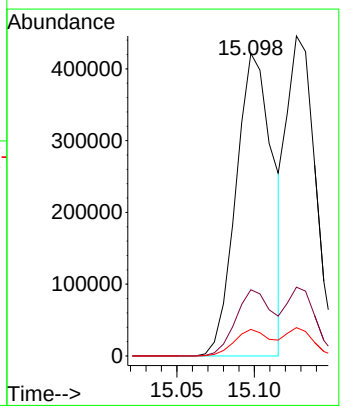


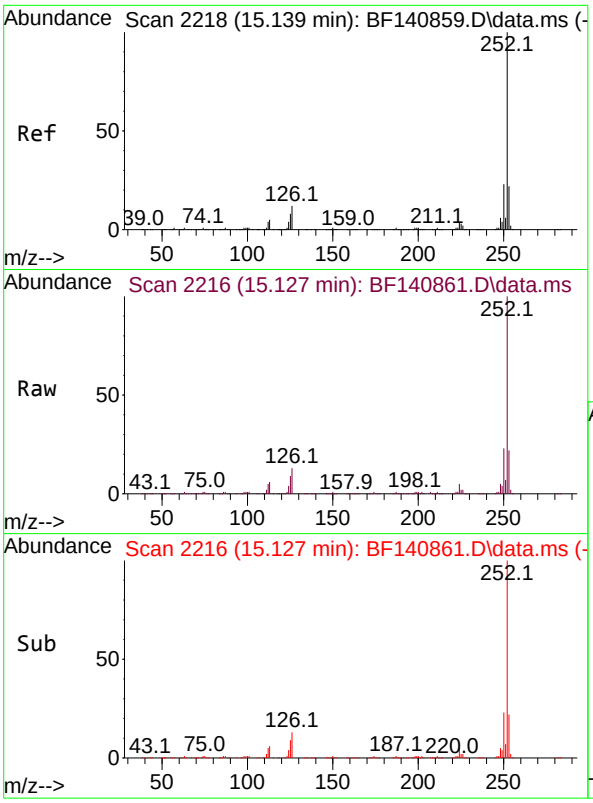


#88
Benzo(b)fluoranthene
Concen: 62.306 ng
RT: 15.098 min Scan# 2211
Delta R.T. -0.012 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:252 Resp: 696582

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.8	7.0	10.4



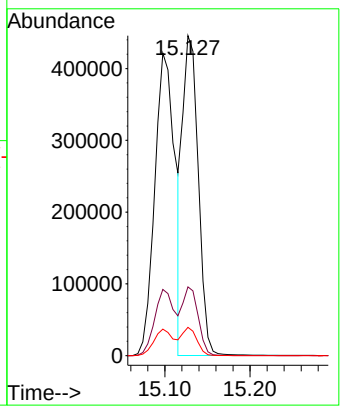


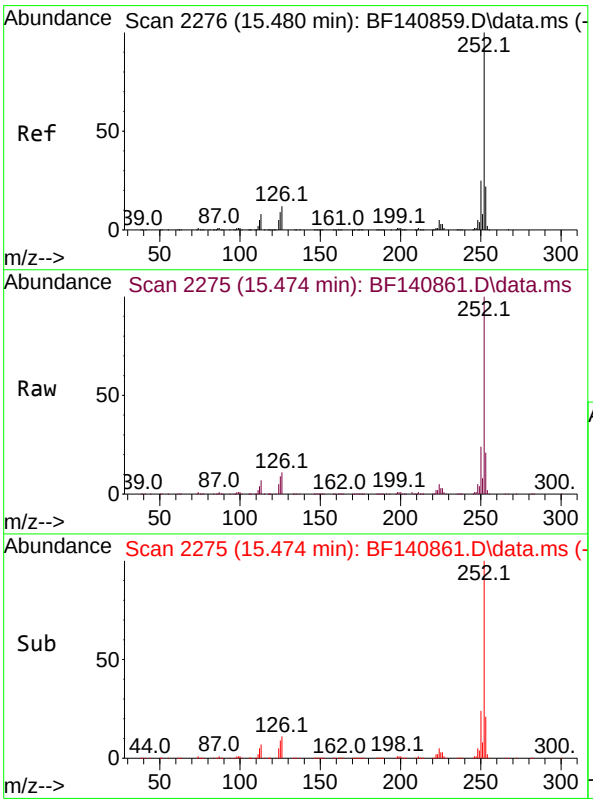
#89
Benzo(k)fluoranthene
Concen: 59.574 ng
RT: 15.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 571329

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	8.8	6.8	10.2

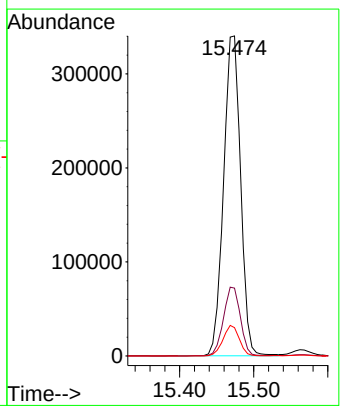


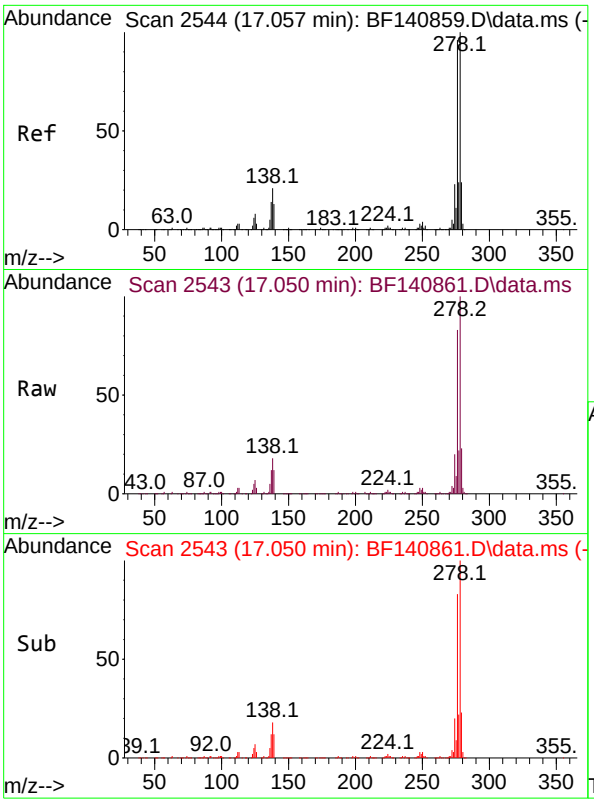


#90
Benzo(a)pyrene
Concen: 61.920 ng
RT: 15.474 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:252 Resp: 542075

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.5	26.3
125	8.9	7.5	11.3



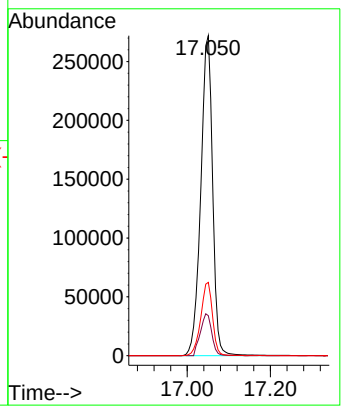


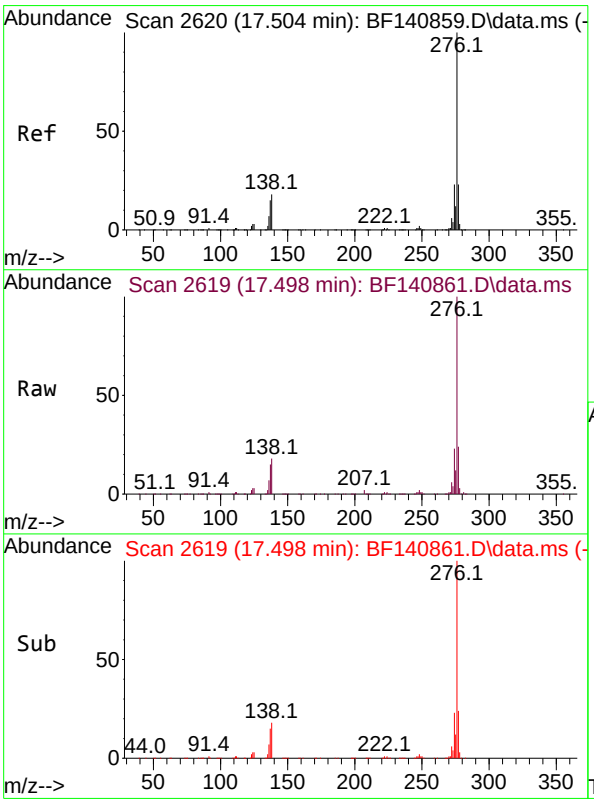
#91
Dibenzo(a,h)anthracene
Concen: 64.789 ng
RT: 17.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 539476

Ion	Ratio	Lower	Upper
278	100		
139	12.5	10.6	16.0
279	22.9	19.2	28.8

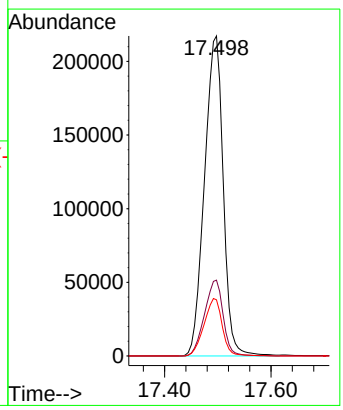




#92
Benzo(g,h,i)perylene
Concen: 62.602 ng
RT: 17.498 min Scan# 2619
Delta R.T. -0.006 min
Lab File: BF140861.D
Acq: 16 Dec 2024 15:49

Tgt Ion:276 Resp: 530525

Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.7	28.1
138	17.5	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140862.D
Acq On : 16 Dec 2024 16:15
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Dec 16 16:52:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	82694	20.000	ng		0.00
21) Naphthalene-d8	8.134	136	323165	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	169321	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	364516	20.000	ng		0.00
76) Chrysene-d12	14.033	240	182739	20.000	ng		0.00
86) Perylene-d12	15.539	264	171569	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	732058	145.730	ng		0.00
7) Phenol-d6	6.510	99	982302	147.637	ng		0.01
23) Nitrobenzene-d5	7.428	82	947083	146.623	ng		0.01
42) 2,4,6-Tribromophenol	10.686	330	304721	152.164	ng		0.00
45) 2-Fluorobiphenyl	9.210	172	2054327	166.807	ng		0.00
79) Terphenyl-d14	12.963	244	2018997	174.221	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.616	88	162832	75.255	ng		98
3) Pyridine	3.399	79	375906	75.017	ng		99
4) n-Nitrosodimethylamine	3.375	42	194050	76.818	ng		97
6) Aniline	6.528	93	399627	70.247	ng		92
8) 2-Chlorophenol	6.651	128	406710	74.245	ng		99
9) Benzaldehyde	6.410	77	219459	59.528	ng		99
10) Phenol	6.522	94	507289	73.564	ng		100
11) bis(2-Chloroethyl)ether	6.593	93	389038	75.649	ng		99
12) 1,3-Dichlorobenzene	6.792	146	461108	73.871	ng		99
13) 1,4-Dichlorobenzene	6.869	146	462233	72.952	ng		99
14) 1,2-Dichlorobenzene	7.022	146	437177	73.129	ng		98
15) Benzyl Alcohol	7.004	79	349382	73.442	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.122	45	449685	74.228	ng		85
17) 2-Methylphenol	7.122	107	328432	75.095	ng		99
18) Hexachloroethane	7.357	117	176920	75.005	ng		98
19) n-Nitroso-di-n-propyla...	7.275	70	288752	72.349	ng		99
20) 3+4-Methylphenols	7.275	107	421165	72.622	ng		97
22) Acetophenone	7.269	105	576358	71.295	ng	#	99
24) Nitrobenzene	7.445	77	484693	73.246	ng		98
25) Isophorone	7.681	82	815074	75.310	ng		99
26) 2-Nitrophenol	7.757	139	232926	76.426	ng		98
27) 2,4-Dimethylphenol	7.798	122	270864	76.101	ng		98
28) bis(2-Chloroethoxy)met...	7.881	93	508754	75.263	ng		98
29) 2,4-Dichlorophenol	8.004	162	374434	76.199	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	420429	74.635	ng		99
31) Naphthalene	8.157	128	1318982	74.301	ng		100
32) Benzoic acid	7.969	122	284705	84.342	ng		98
33) 4-Chloroaniline	8.216	127	451539	76.586	ng		99
34) Hexachlorobutadiene	8.263	225	282790	74.615	ng		99
35) Caprolactam	8.616	113	125537m	85.813	ng		
36) 4-Chloro-3-methylphenol	8.704	107	449654	81.301	ng		97
37) 2-Methylnaphthalene	8.845	142	942892	80.295	ng		100
38) 1-Methylnaphthalene	8.945	142	925535	79.695	ng		100
40) 1,2,4,5-Tetrachloroben...	9.010	216	466438	89.625	ng		99
41) Hexachlorocyclopentadiene	8.992	237	149909	80.025	ng		99
43) 2,4,6-Trichlorophenol	9.134	196	301828	94.714	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140862.D
Acq On : 16 Dec 2024 16:15
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Dec 16 16:52:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

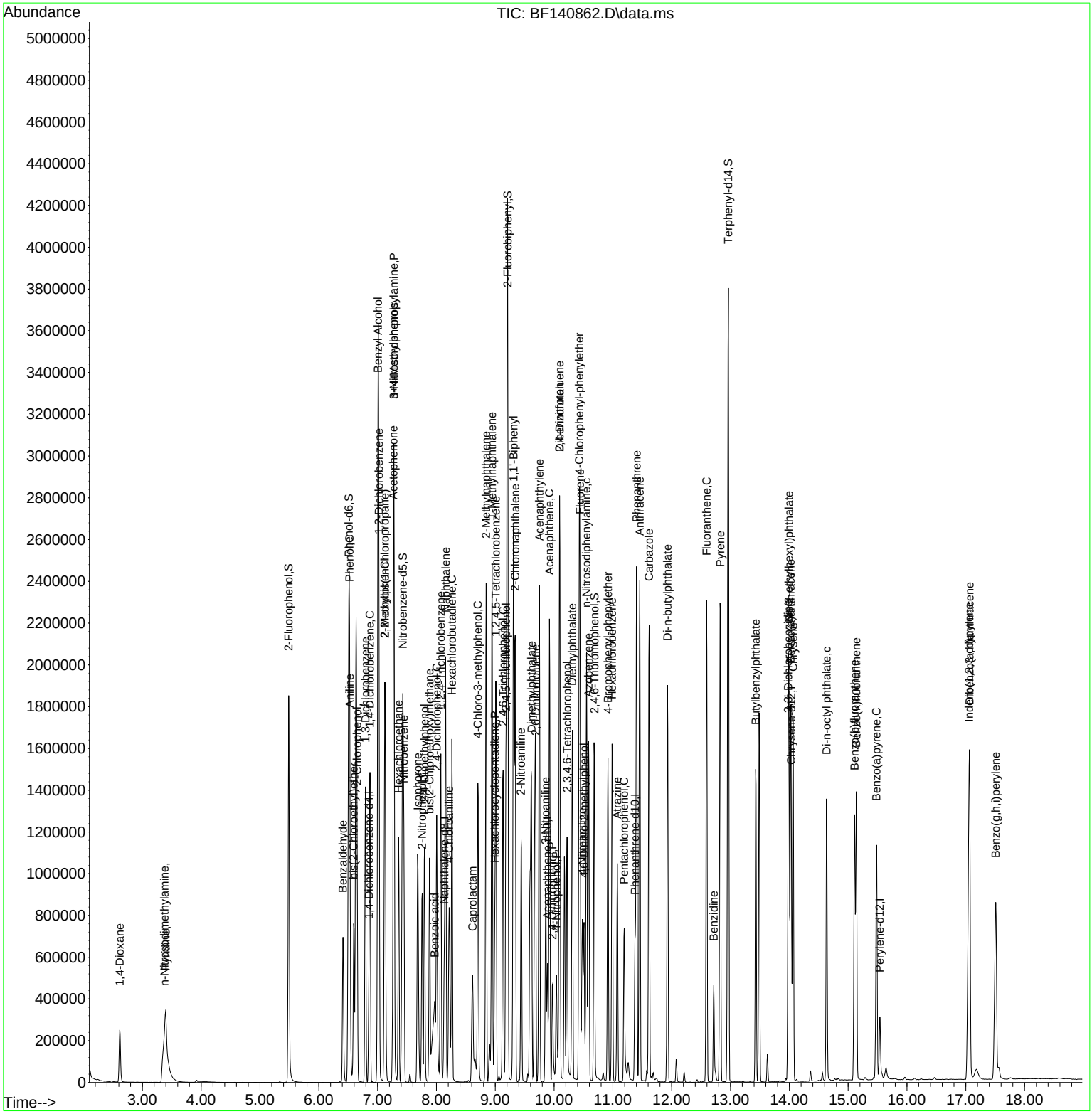
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	321402	91.760	ng	99
46) 1,1'-Biphenyl	9.310	154	1186930	88.155	ng	99
47) 2-Chloronaphthalene	9.339	162	927799	90.075	ng	99
48) 2-Nitroaniline	9.439	65	289810	93.162	ng	99
49) Acenaphthylene	9.751	152	1169747	77.278	ng	100
50) Dimethylphthalate	9.616	163	1049196	87.890	ng	100
51) 2,6-Dinitrotoluene	9.686	165	240439	88.104	ng	95
52) Acenaphthene	9.922	154	710789	73.511	ng	100
53) 3-Nitroaniline	9.857	138	208004	76.804	ng	98
54) 2,4-Dinitrophenol	9.975	184	106230	79.797	ng	95
55) Dibenzofuran	10.092	168	1071923	71.543	ng	100
56) 4-Nitrophenol	10.039	139	112972	77.685	ng	96
57) 2,4-Dinitrotoluene	10.092	165	263636	73.423	ng	99
58) Fluorene	10.439	166	904163	73.147	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.222	232	230812	80.870	ng	99
60) Diethylphthalate	10.310	149	911868	73.664	ng	100
61) 4-Chlorophenyl-phenyle...	10.428	204	456754	73.562	ng	97
62) 4-Nitroaniline	10.480	138	216635	76.547	ng	99
63) Azobenzene	10.586	77	862457	74.110	ng	100
65) 4,6-Dinitro-2-methylph...	10.510	198	158996	76.975	ng	98
66) n-Nitrosodiphenylamine	10.551	169	767906	68.519	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	279941	68.648	ng	99
68) Hexachlorobenzene	10.986	284	324661	70.220	ng	97
69) Atrazine	11.075	200	185877	59.385	ng	99
70) Pentachlorophenol	11.192	266	153999	91.050	ng	100
71) Phenanthrene	11.404	178	1365579	72.850	ng	99
72) Anthracene	11.457	178	1361788	73.769	ng	99
73) Carbazole	11.616	167	1341097	74.170	ng	100
74) Di-n-butylphthalate	11.927	149	1410986	66.492	ng	100
75) Fluoranthene	12.592	202	1374862	63.687	ng	98
77) Benzidine	12.716	184	276230	74.064	ng	99
78) Pyrene	12.827	202	1423860	87.621	ng	100
80) Butylbenzylphthalate	13.427	149	508497	85.043	ng	97
81) Benzo(a)anthracene	14.021	228	1001035	77.292	ng	100
82) 3,3'-Dichlorobenzidine	13.980	252	291736	74.661	ng	99
83) Chrysene	14.063	228	881398	74.840	ng	100
84) Bis(2-ethylhexyl)phtha...	13.992	149	624744	81.032	ng	99
85) Di-n-octyl phthalate	14.633	149	922920	79.125	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	957167	89.400	ng	100
88) Benzo(b)fluoranthene	15.110	252	925999	77.753	ng	99
89) Benzo(k)fluoranthene	15.139	252	683254	66.881	ng	99
90) Benzo(a)pyrene	15.480	252	714906	76.662	ng	100
91) Dibenzo(a,h)anthracene	17.062	278	792175	89.311	ng	99
92) Benzo(g,h,i)perylene	17.509	276	840468	93.101	ng	99

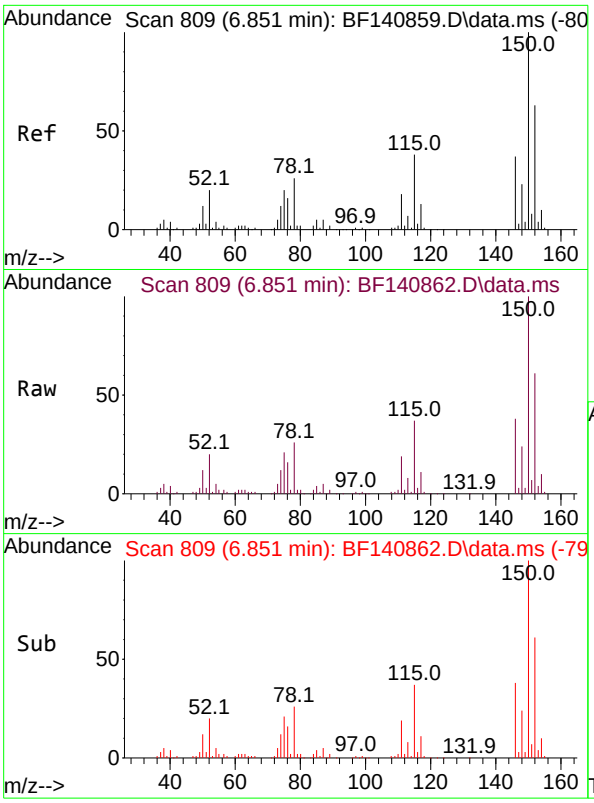
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140862.D
Acq On : 16 Dec 2024 16:15
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Dec 16 16:52:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



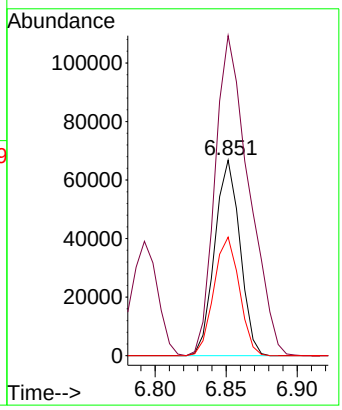


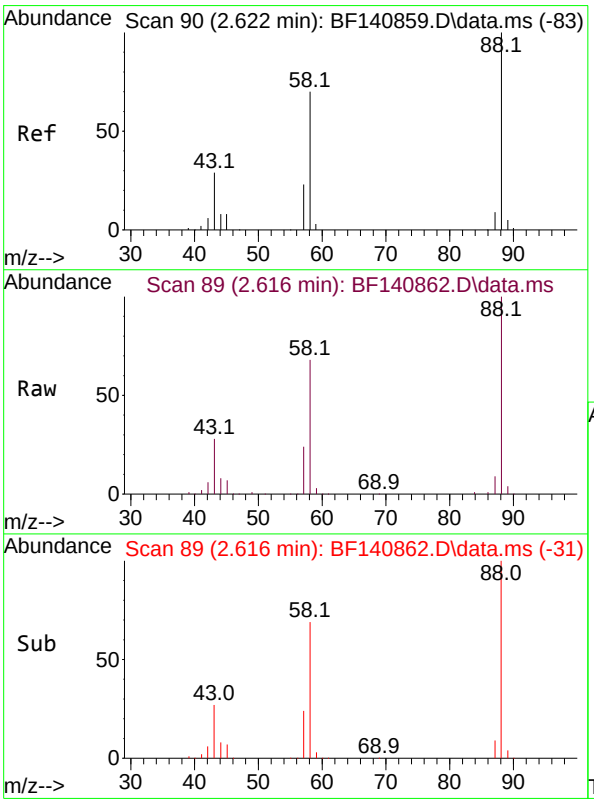
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 82694

Ion	Ratio	Lower	Upper
152	100		
150	163.6	127.9	191.9
115	60.6	48.0	72.0

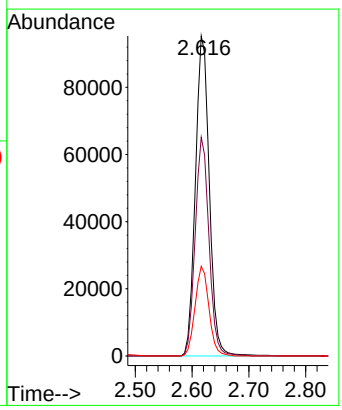


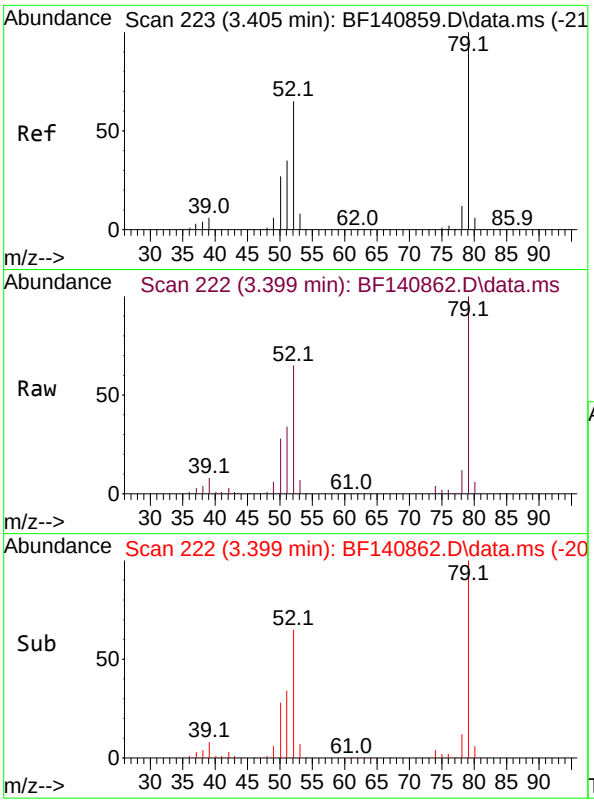


#2
1,4-Dioxane
Concen: 75.255 ng
RT: 2.616 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 88 Resp: 162832

Ion	Ratio	Lower	Upper
88	100		
58	67.8	55.8	83.8
43	27.9	22.7	34.1



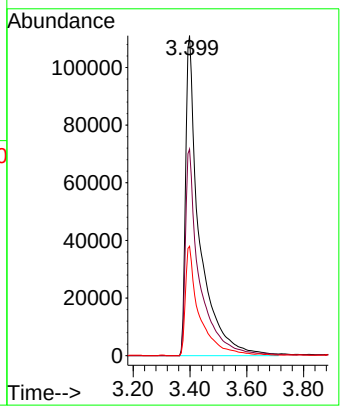


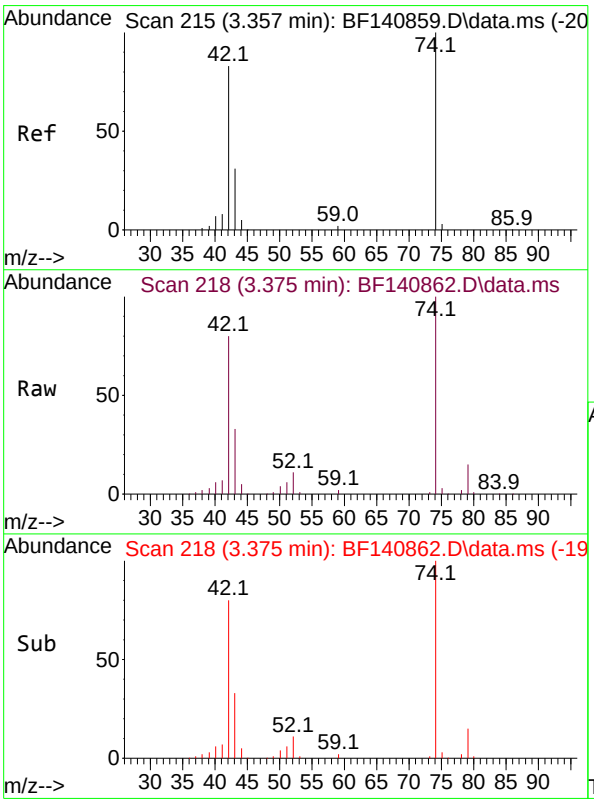
#3
Pyridine
Concen: 75.017 ng
RT: 3.399 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 375906

Ion	Ratio	Lower	Upper
79	100		
52	64.6	51.7	77.5
51	34.2	28.2	42.4

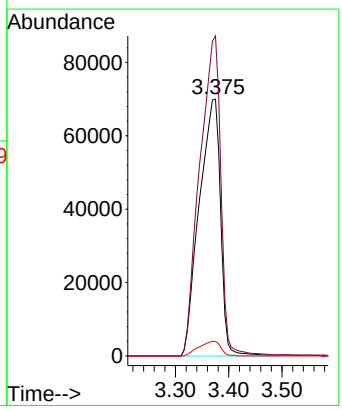


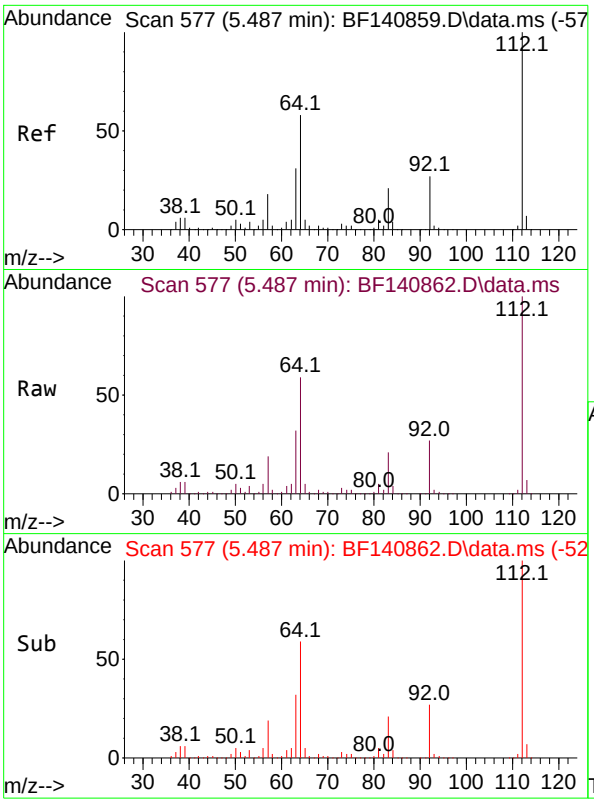


#4
n-Nitrosodimethylamine
Concen: 76.818 ng
RT: 3.375 min Scan# 218
Delta R.T. 0.018 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 42 Resp: 194050

Ion	Ratio	Lower	Upper
42	100		
74	124.6	96.9	145.3
44	5.7	4.4	6.6



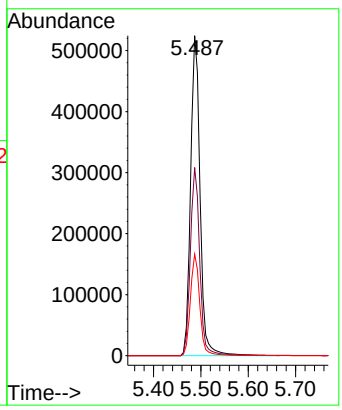


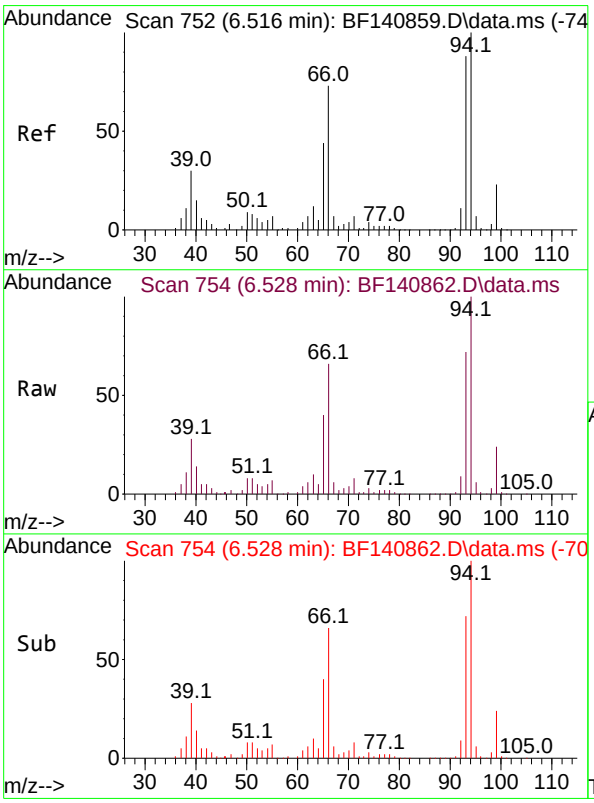
#5
2-Fluorophenol
Concen: 145.730 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 732058

Ion	Ratio	Lower	Upper
112	100		
64	58.8	46.1	69.1
63	31.7	24.9	37.3

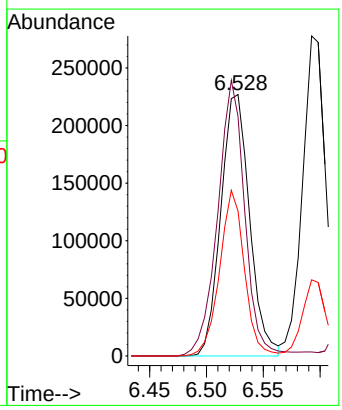


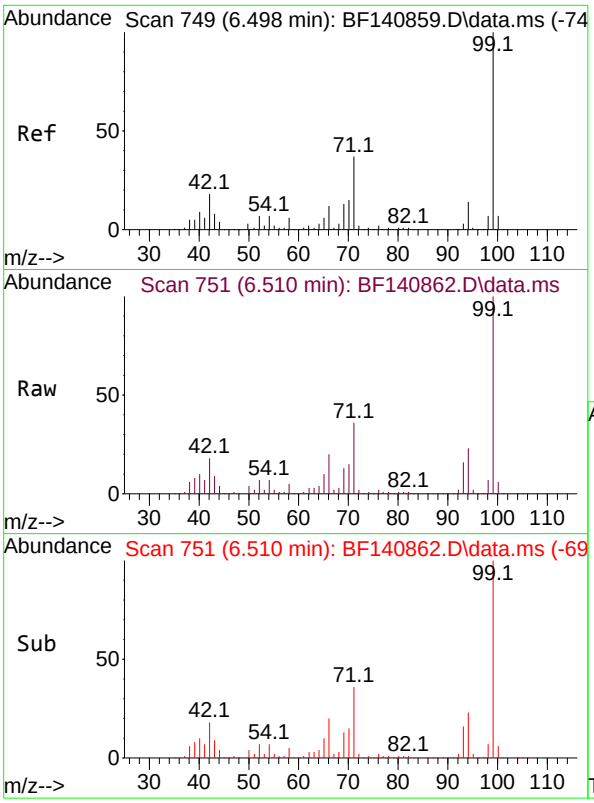


#6
Aniline
Concen: 70.247 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 93 Resp: 399627

Ion	Ratio	Lower	Upper
93	100		
66	91.6	67.0	100.4
65	55.4	40.4	60.6



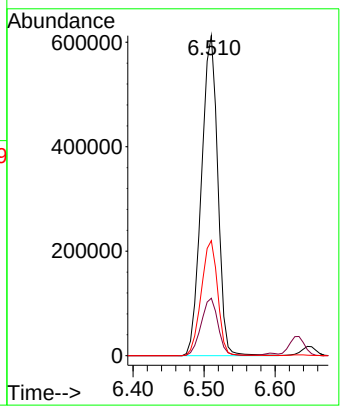


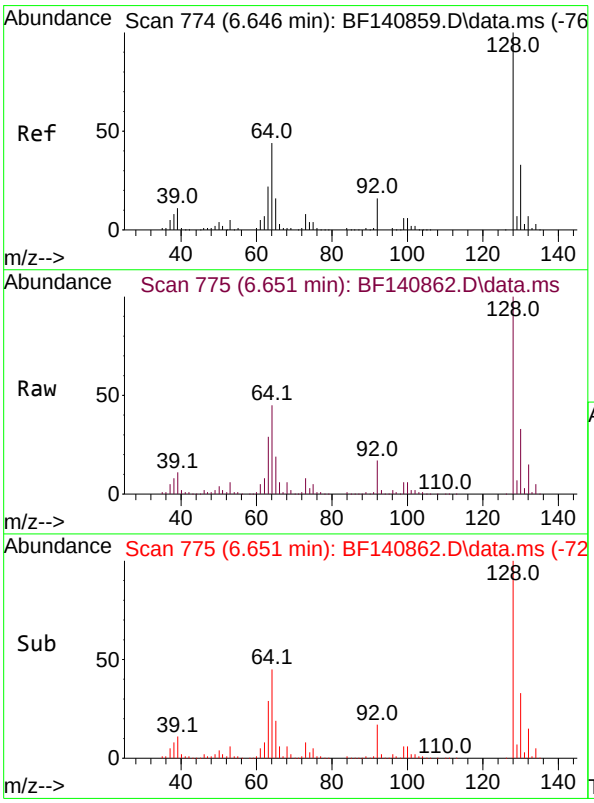
#7
Phenol-d6
Concen: 147.637 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 982302

Ion	Ratio	Lower	Upper
99	100		
42	17.9	14.3	21.5
71	35.9	29.9	44.9

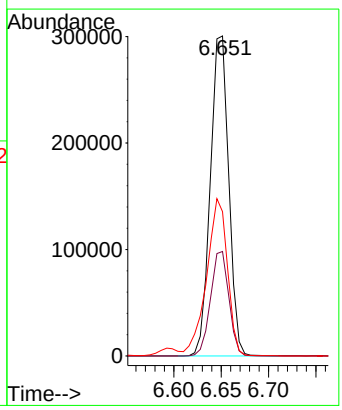


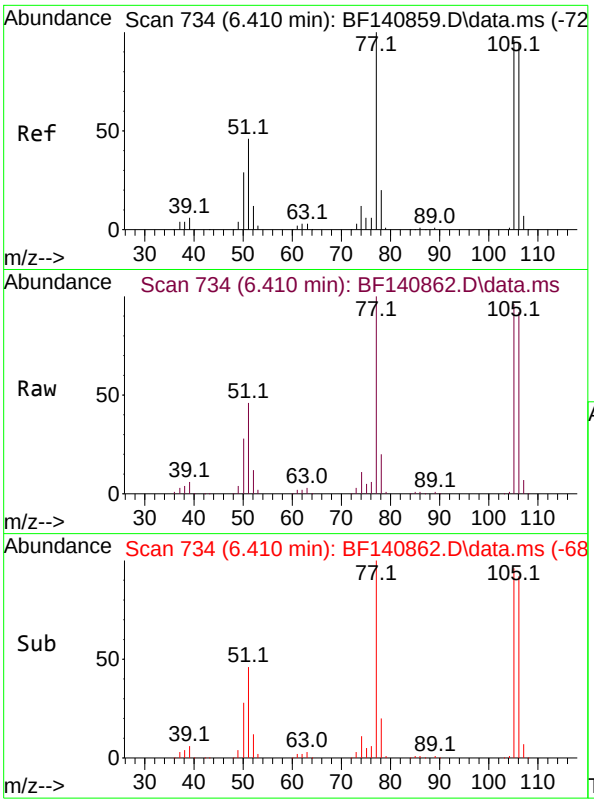


#8
2-Chlorophenol
Concen: 74.245 ng
RT: 6.651 min Scan# 775
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:128 Resp: 406710

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.9	52.9
64	45.1	24.3	64.3



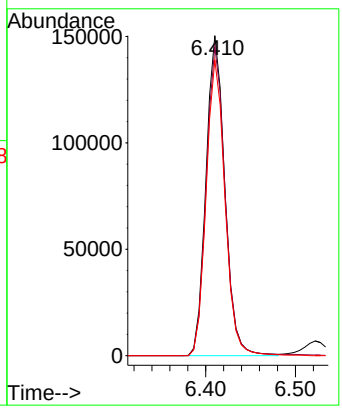


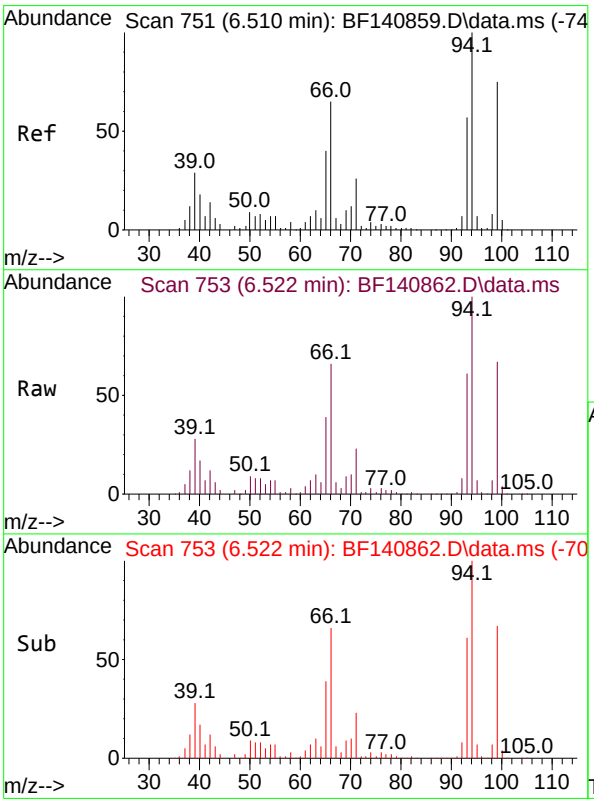
#9
Benzaldehyde
Concen: 59.528 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 219459

Ion	Ratio	Lower	Upper
77	100		
105	96.5	75.8	115.8
106	92.3	74.1	114.1

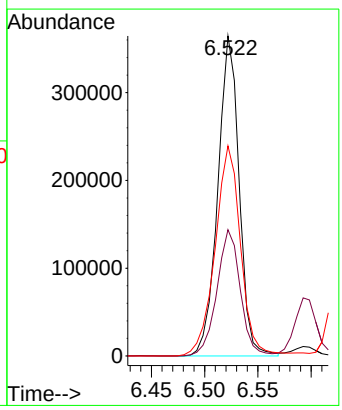


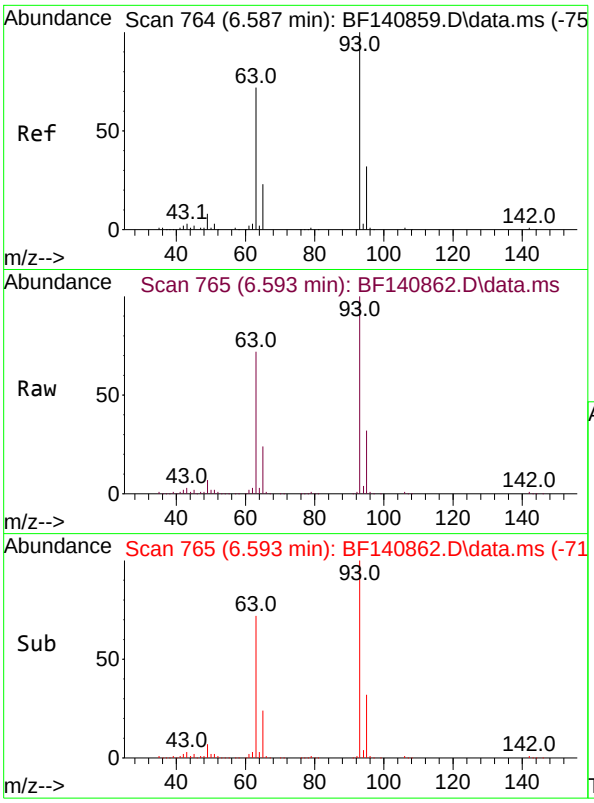


#10
Phenol
Concen: 73.564 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 94 Resp: 507289

Ion	Ratio	Lower	Upper
94	100		
65	39.4	19.9	59.9
66	65.6	45.6	85.6



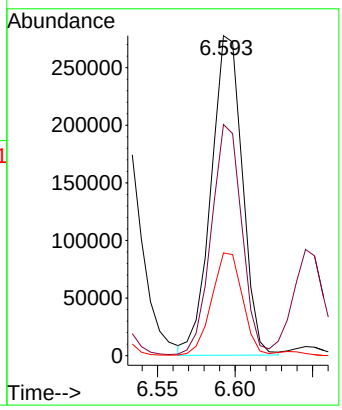


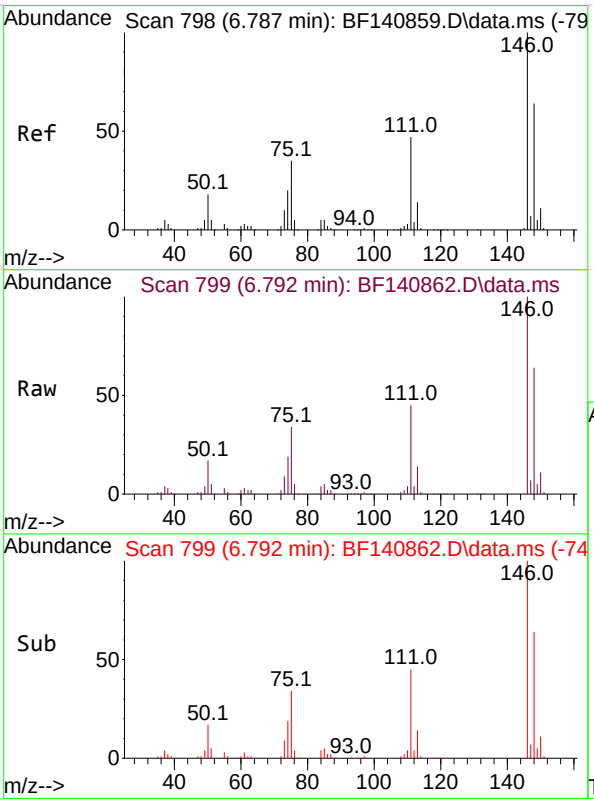
#11
bis(2-Chloroethyl)ether
Concen: 75.649 ng
RT: 6.593 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 389038

Ion	Ratio	Lower	Upper
93	100		
63	72.3	51.0	91.0
95	32.1	12.0	52.0

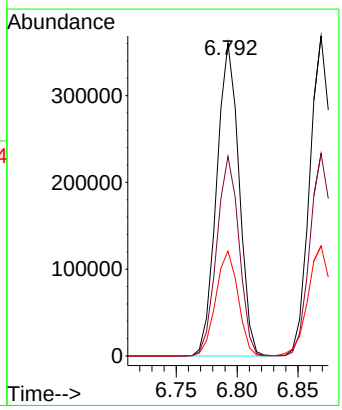


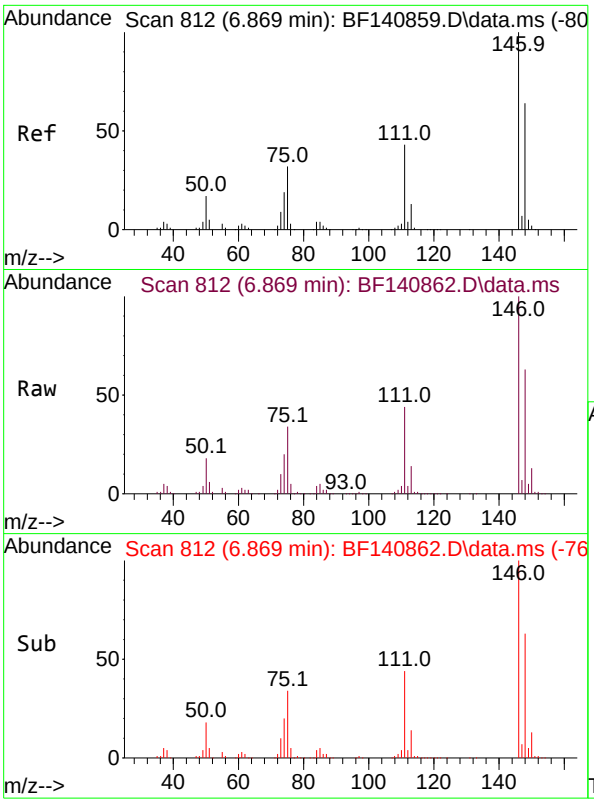


#12
1,3-Dichlorobenzene
Concen: 73.871 ng
RT: 6.792 min Scan# 799
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:146 Resp: 461108

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
75	33.5	28.1	42.1



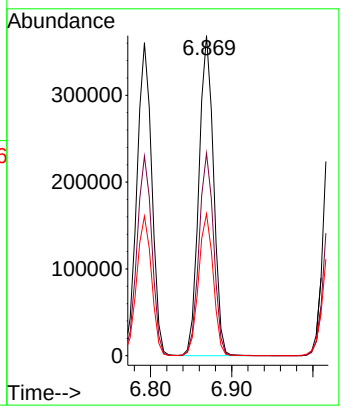


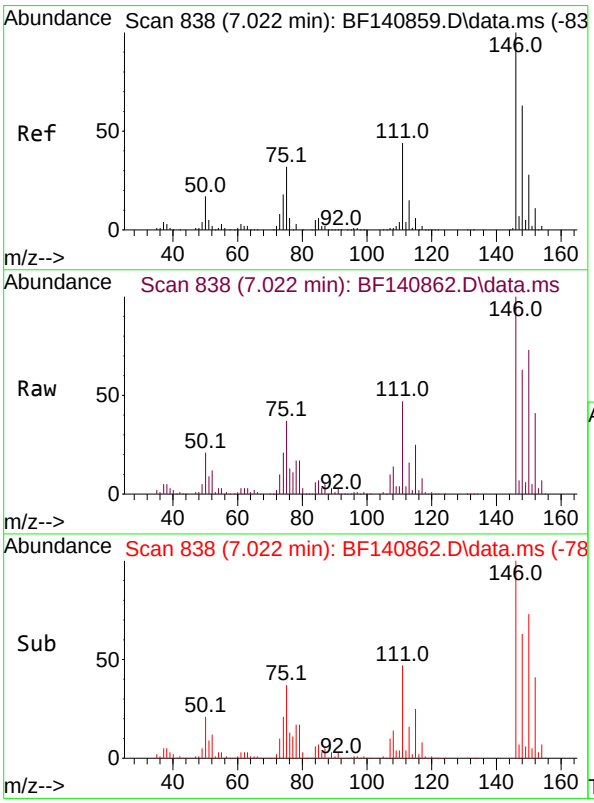
#13
1,4-Dichlorobenzene
Concen: 72.952 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 462233

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.3	76.9
111	44.3	34.4	51.6

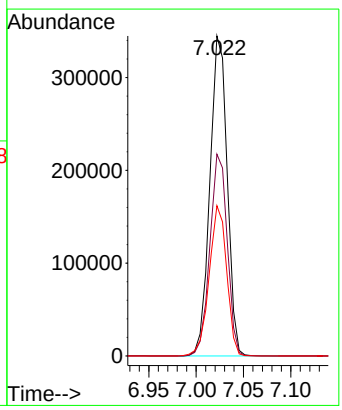


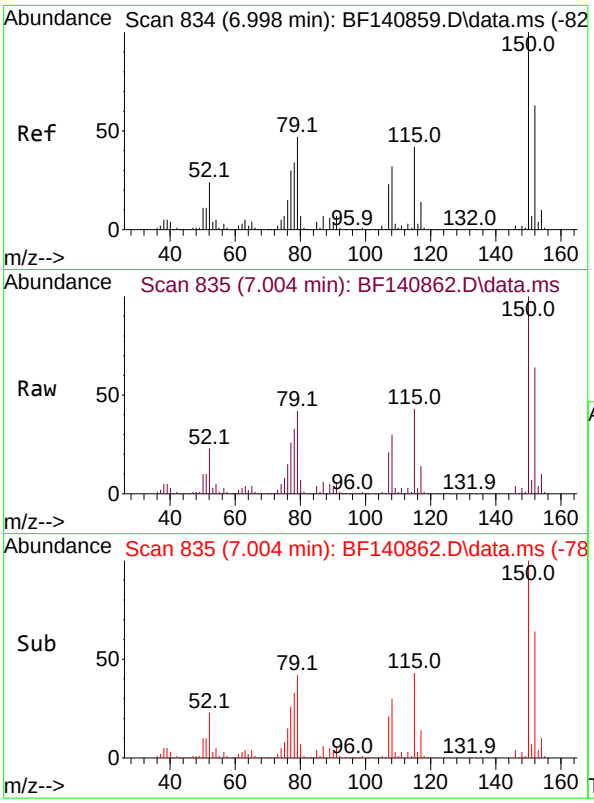


#14
1,2-Dichlorobenzene
Concen: 73.129 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:146 Resp: 437177

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.0	75.0
111	46.9	35.6	53.4



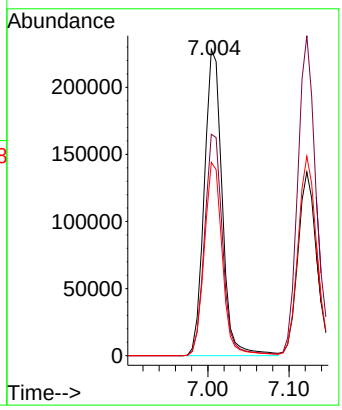


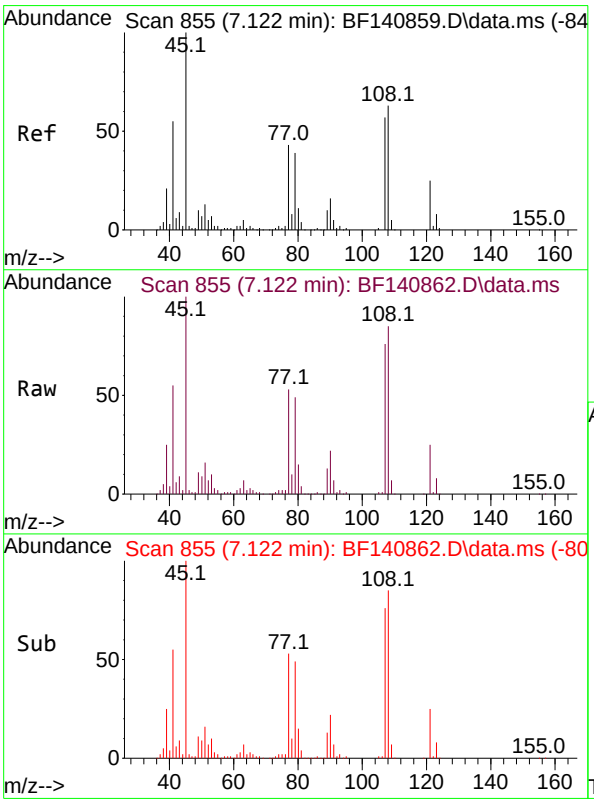
#15
Benzyl Alcohol
Concen: 73.442 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 349382

Ion	Ratio	Lower	Upper
79	100		
108	72.3	55.1	82.7
77	63.1	50.6	76.0

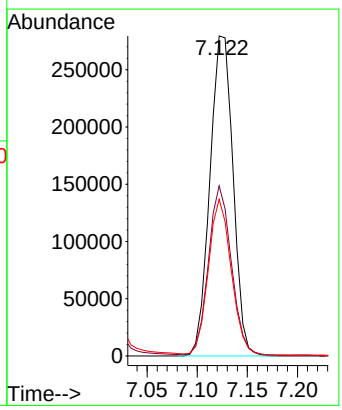


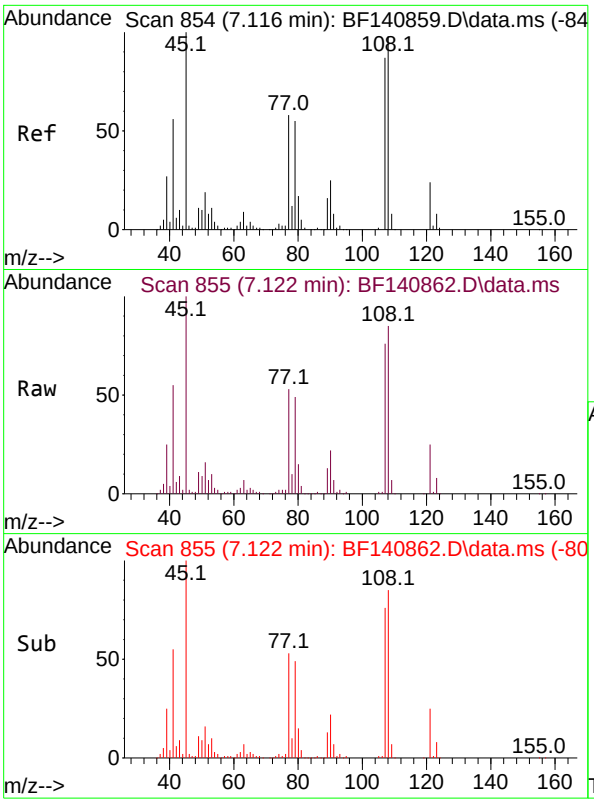


#16
2,2'-oxybis(1-Chloropropane)
Concen: 74.228 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 45 Resp: 449685

Ion	Ratio	Lower	Upper
45	100		
77	53.1	23.3	63.3
79	49.0	20.0	60.0



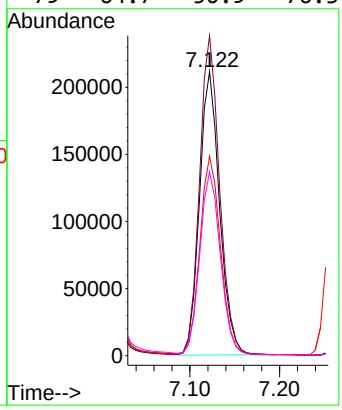


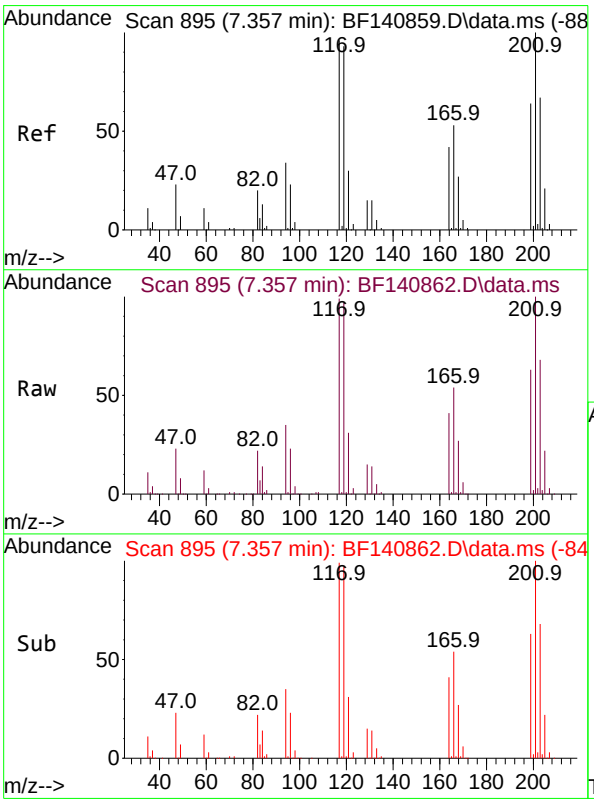
#17
2-Methylphenol
Concen: 75.095 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 328432

Ion	Ratio	Lower	Upper
107	100		
108	112.7	90.2	135.4
77	70.2	53.8	80.6
79	64.7	50.9	76.3

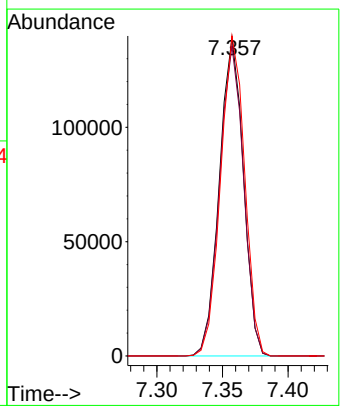


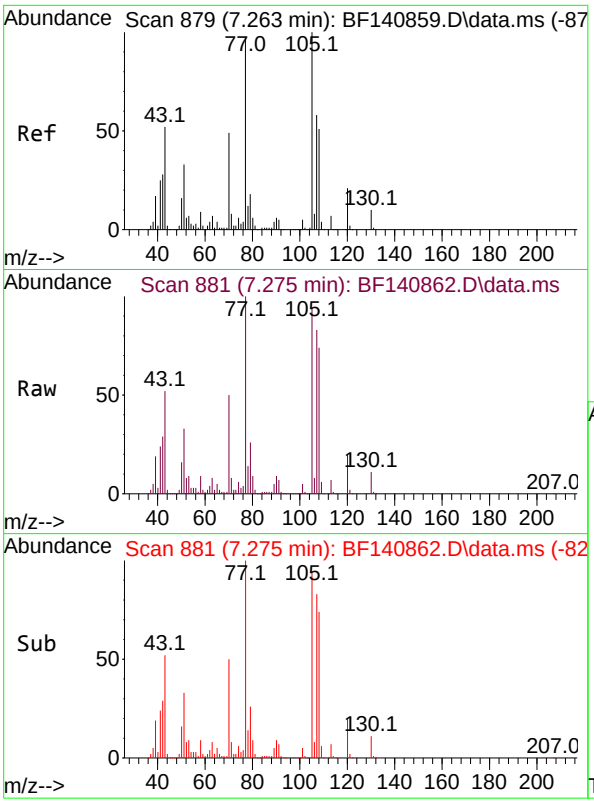


#18
Hexachloroethane
Concen: 75.005 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:117 Resp: 176920

Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.4	116.0
201	100.5	83.4	125.0



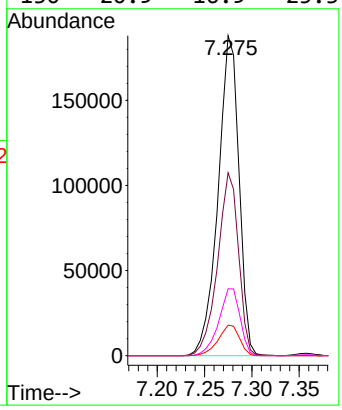


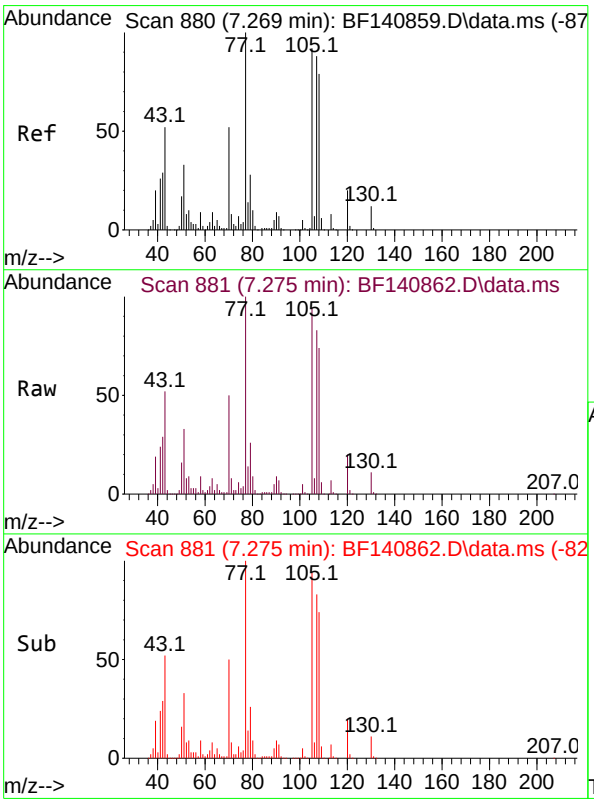
#19
n-Nitroso-di-n-propylamine
Concen: 72.349 ng
RT: 7.275 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 288752

Ion	Ratio	Lower	Upper
70	100		
42	57.2	45.3	67.9
101	9.6	8.0	12.0
130	20.9	16.9	25.3

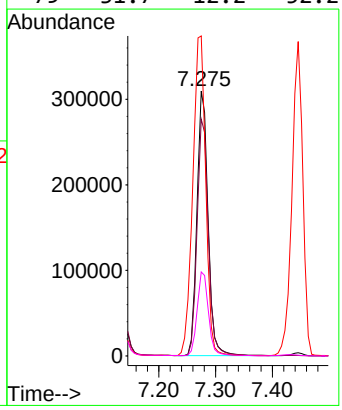


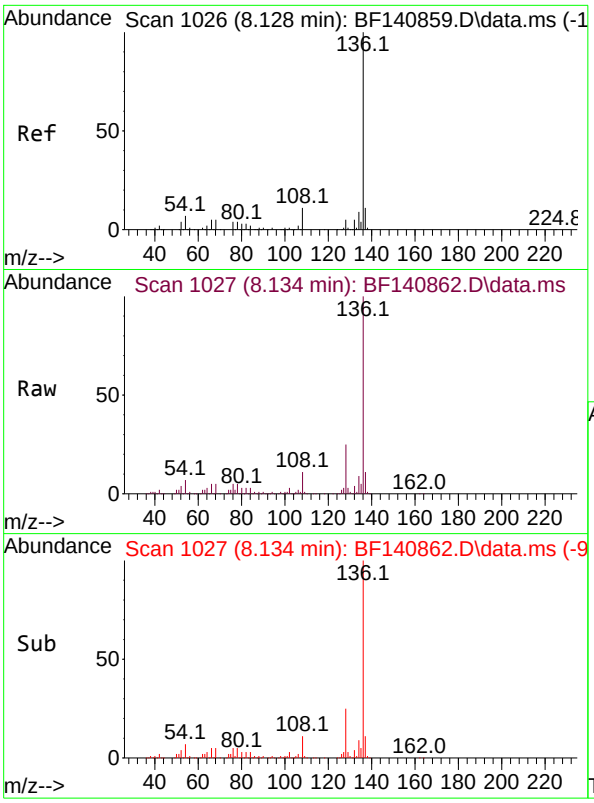


#20
3+4-Methylphenols
Concen: 72.622 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:107 Resp: 421165

Ion	Ratio	Lower	Upper
107	100		
108	89.4	70.1	110.1
77	120.8	94.4	134.4
79	31.7	12.2	52.2



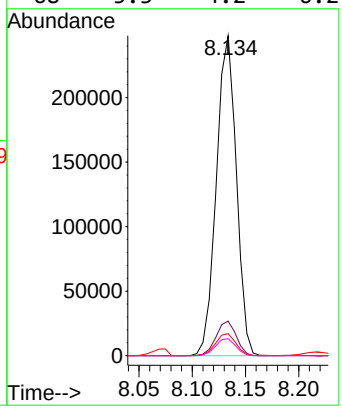


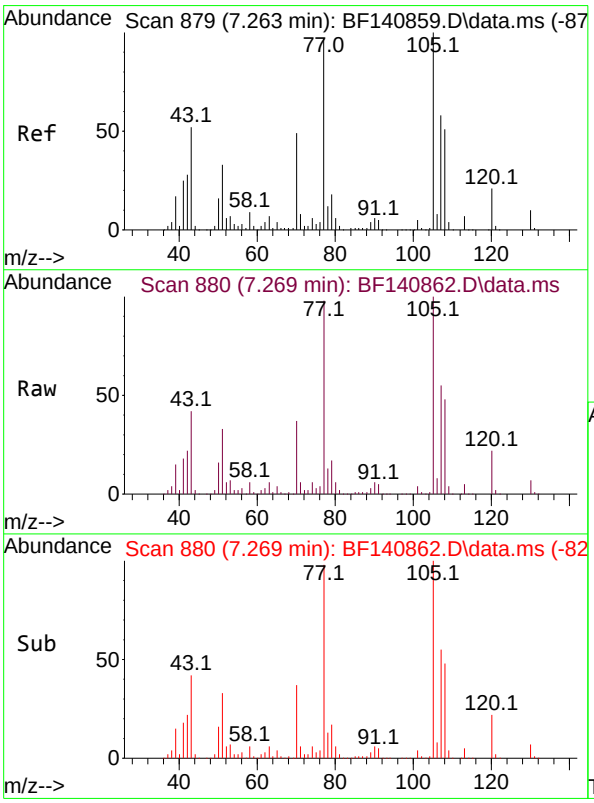
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 323165

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.9	5.6	8.4
68	5.3	4.2	6.2

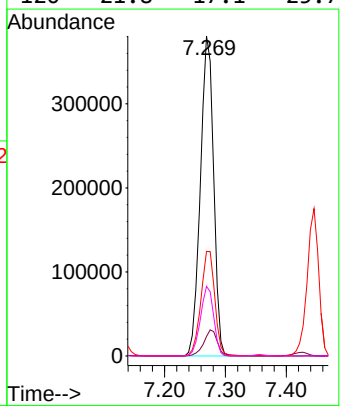


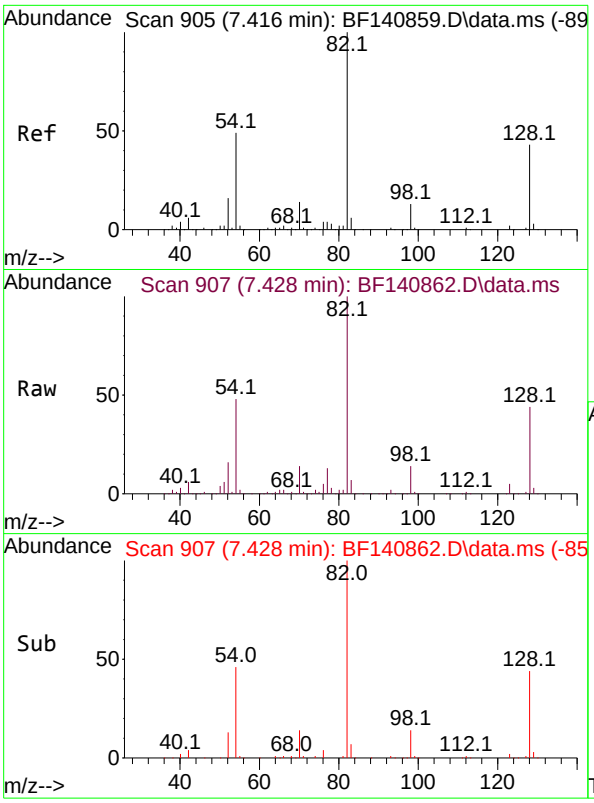


#22
Acetophenone
Concen: 71.295 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:105 Resp: 576358

Ion	Ratio	Lower	Upper
105	100		
71	6.1	6.2	9.4#
51	32.7	26.3	39.5
120	21.8	17.1	25.7



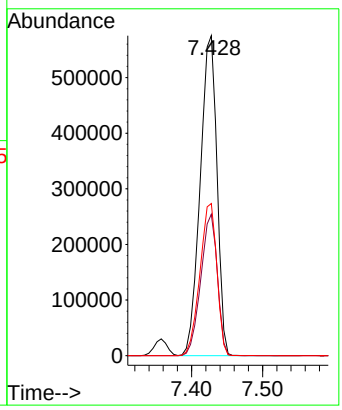


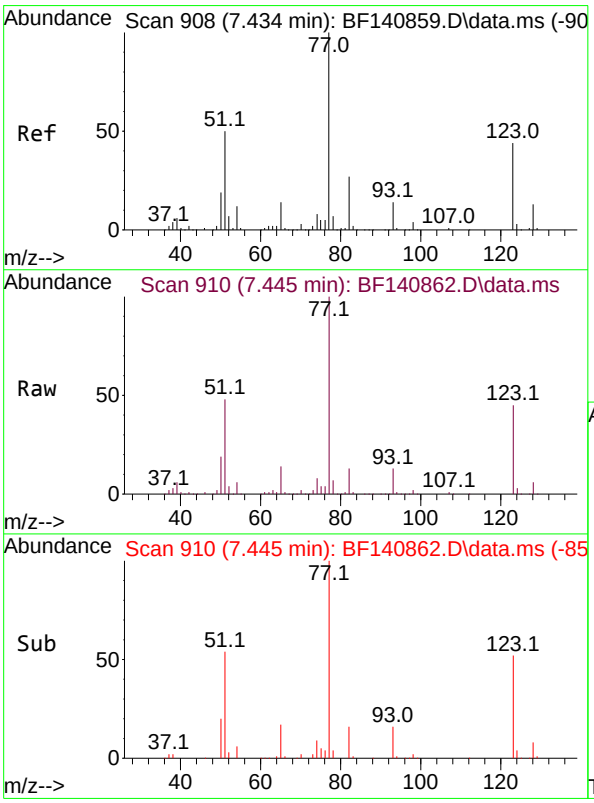
#23
Nitrobenzene-d5
Concen: 146.623 ng
RT: 7.428 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 947083

Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.4	51.6
54	47.6	38.8	58.2

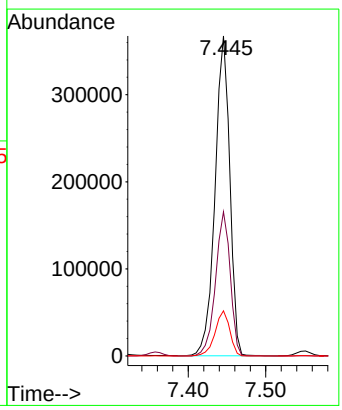


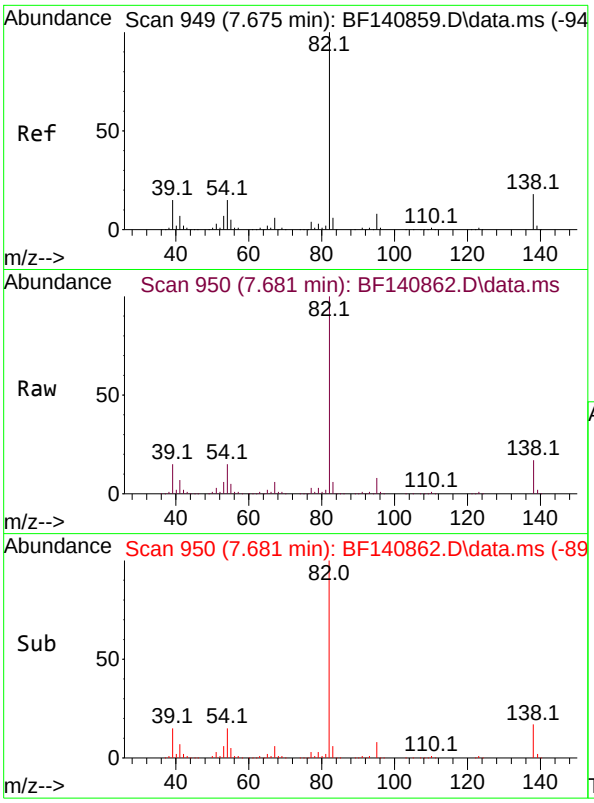


#24
Nitrobenzene
Concen: 73.246 ng
RT: 7.445 min Scan# 910
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 77 Resp: 484693

Ion	Ratio	Lower	Upper
77	100		
123	45.1	35.0	52.4
65	14.1	11.4	17.0



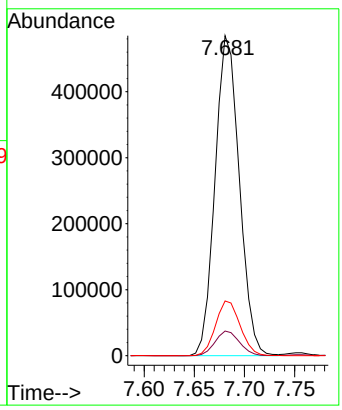


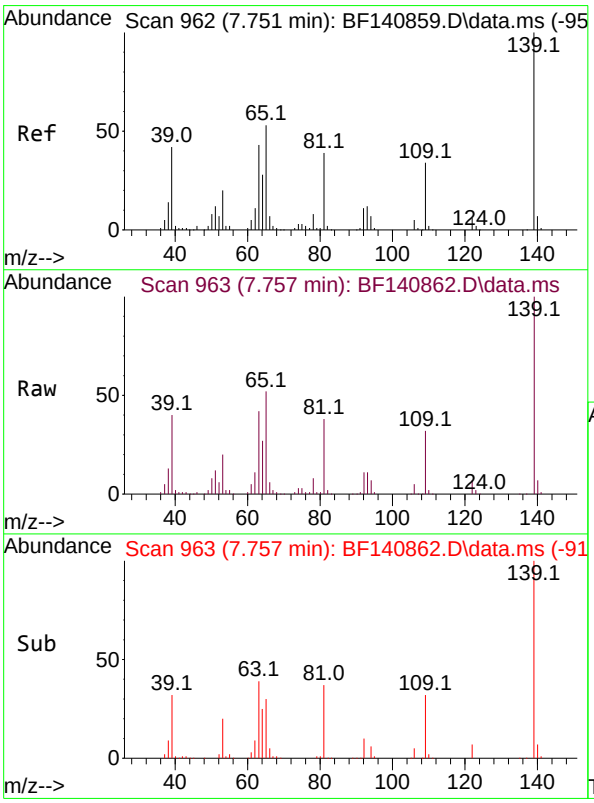
#25
Isophorone
Concen: 75.310 ng
RT: 7.681 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 815074

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.3	9.5
138	17.1	14.1	21.1

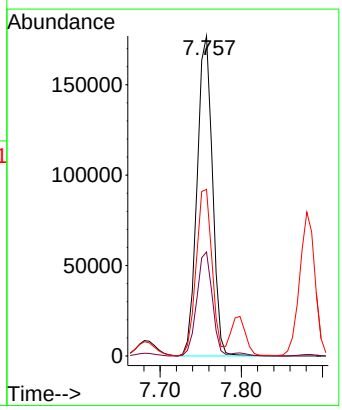


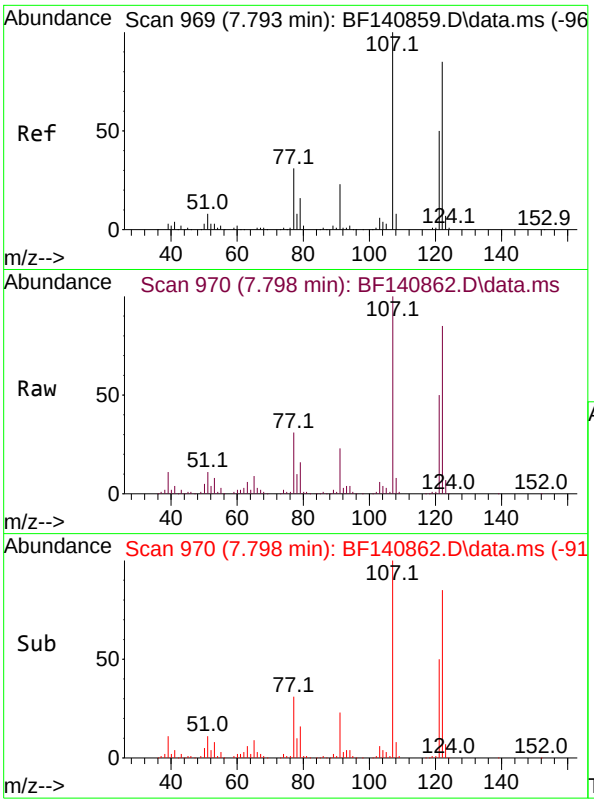


#26
2-Nitrophenol
Concen: 76.426 ng
RT: 7.757 min Scan# 963
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:139 Resp: 232926

Ion	Ratio	Lower	Upper
139	100		
109	32.5	26.9	40.3
65	52.1	42.6	64.0



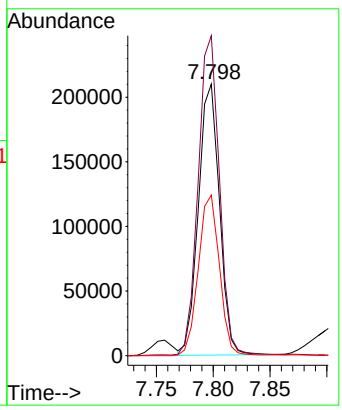


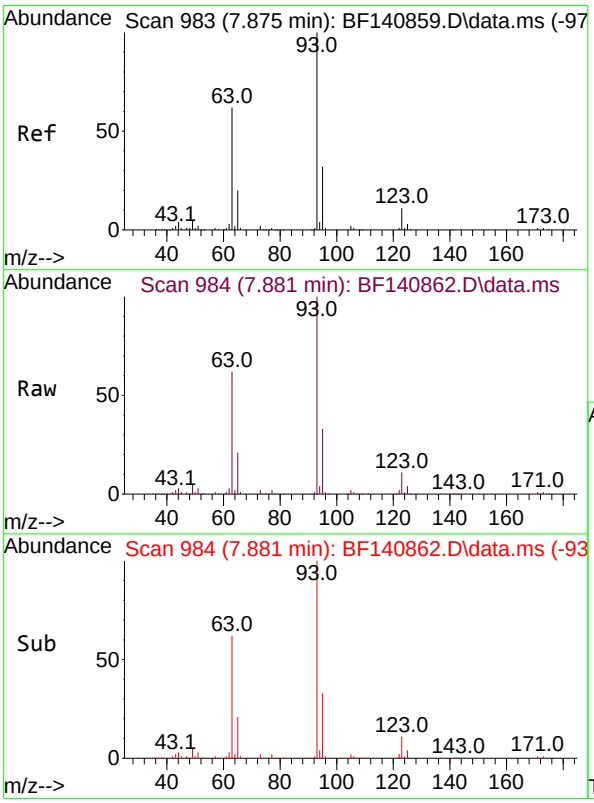
#27
2,4-Dimethylphenol
Concen: 76.101 ng
RT: 7.798 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 270864

Ion	Ratio	Lower	Upper
122	100		
107	117.8	92.6	139.0
121	59.1	45.8	68.8

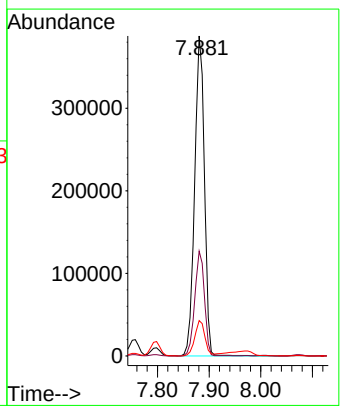


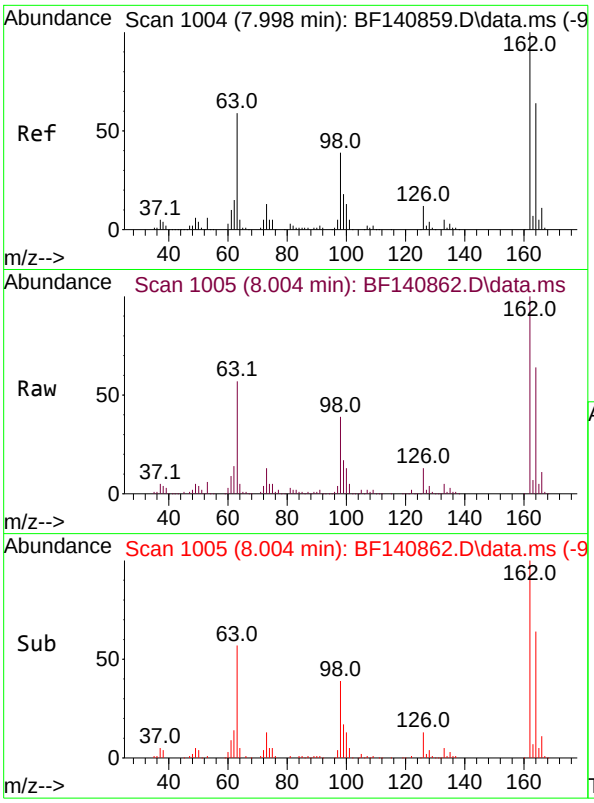


#28
bis(2-Chloroethoxy)methane
Concen: 75.263 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 93 Resp: 508754

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.3	37.9
123	11.1	8.6	13.0



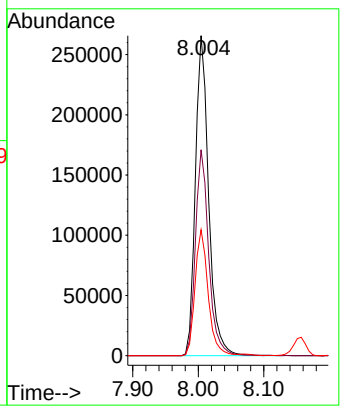


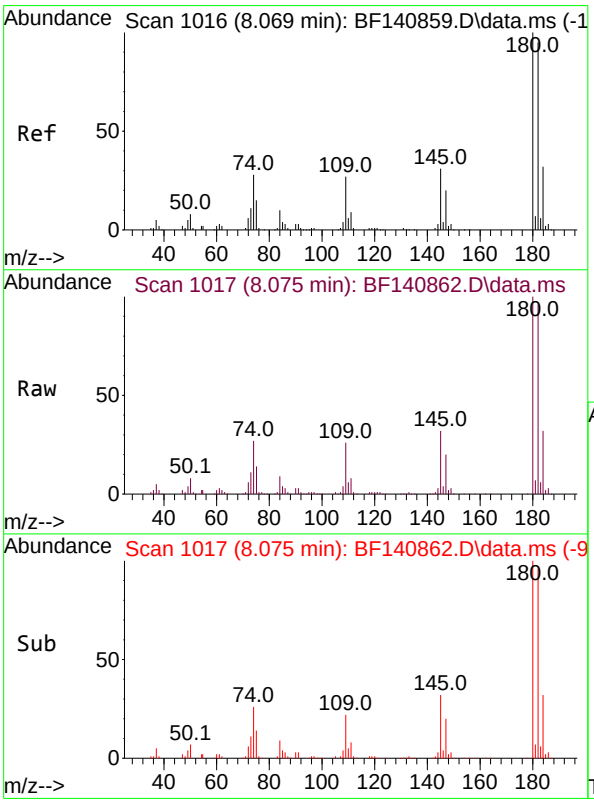
#29
2,4-Dichlorophenol
Concen: 76.199 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 374434

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.7	83.7
98	39.4	18.6	58.6

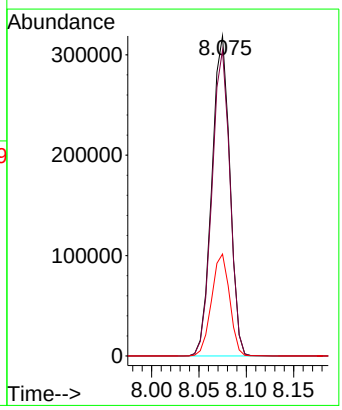


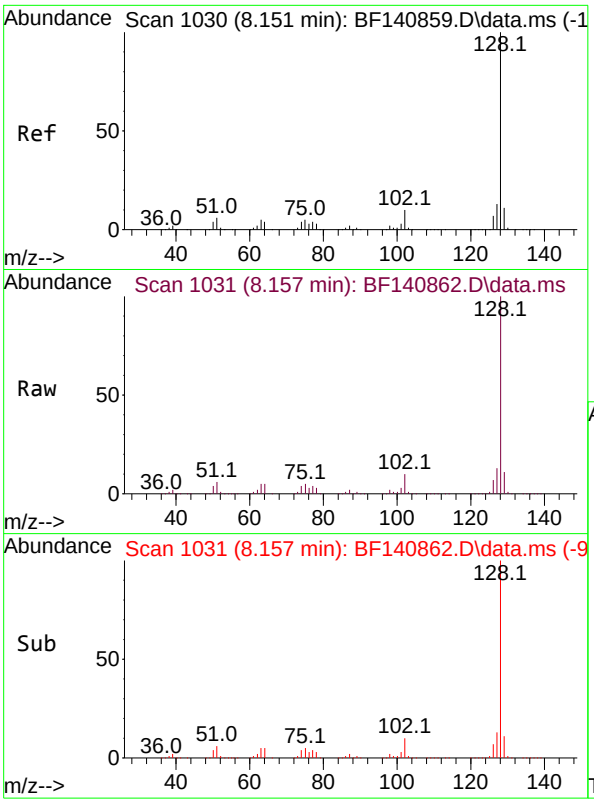


#30
1,2,4-Trichlorobenzene
Concen: 74.635 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:180 Resp: 420429

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.6
145	31.9	25.2	37.8



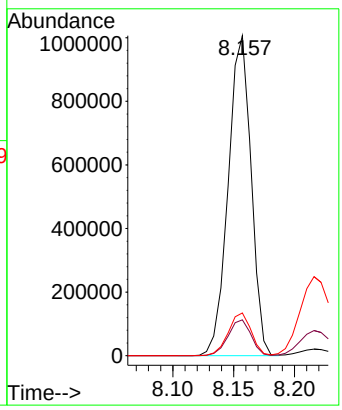


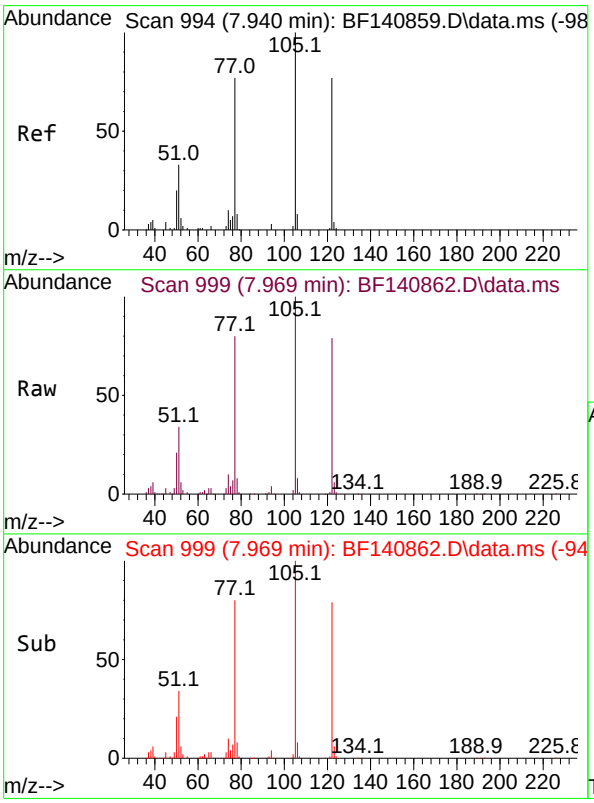
#31
Naphthalene
Concen: 74.301 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 1318982

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.3	10.6	16.0

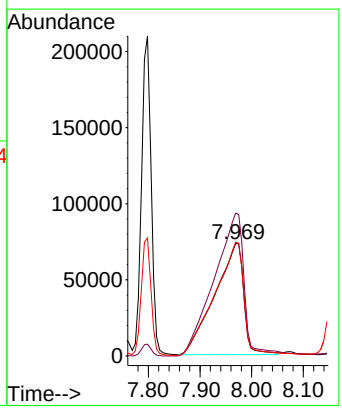


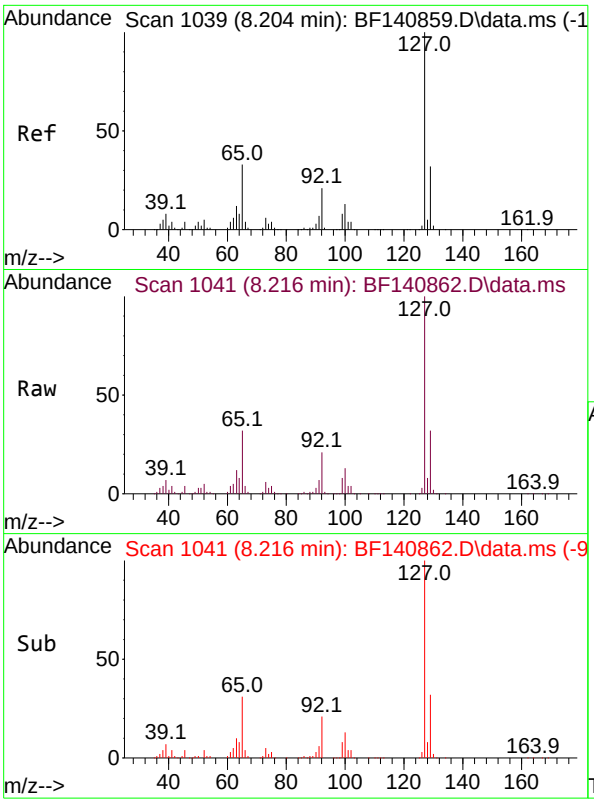


#32
Benzoic acid
Concen: 84.342 ng
RT: 7.969 min Scan# 999
Delta R.T. 0.029 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:122 Resp: 284705

Ion	Ratio	Lower	Upper
122	100		
105	126.9	108.3	148.3
77	101.2	78.8	118.8



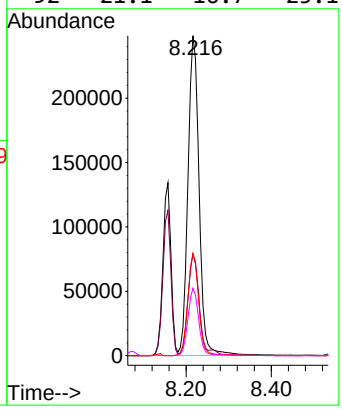


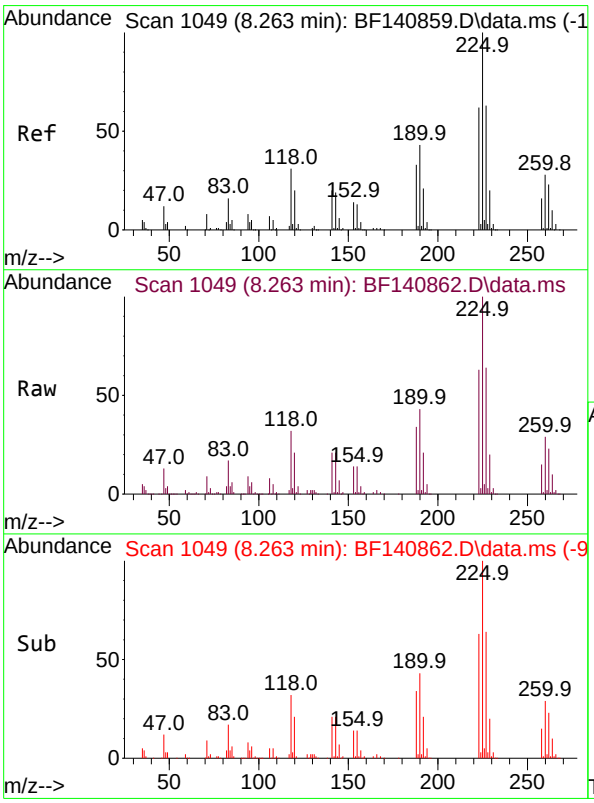
#33
4-Chloroaniline
Concen: 76.586 ng
RT: 8.216 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 451539

Ion	Ratio	Lower	Upper
127	100		
129	31.7	26.0	39.0
65	31.9	26.0	39.0
92	21.1	16.7	25.1

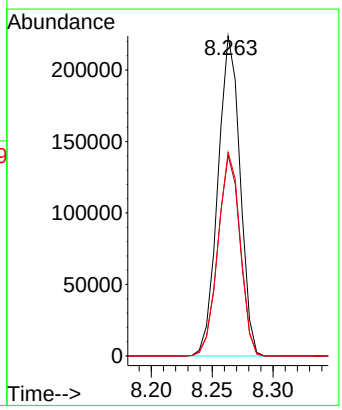


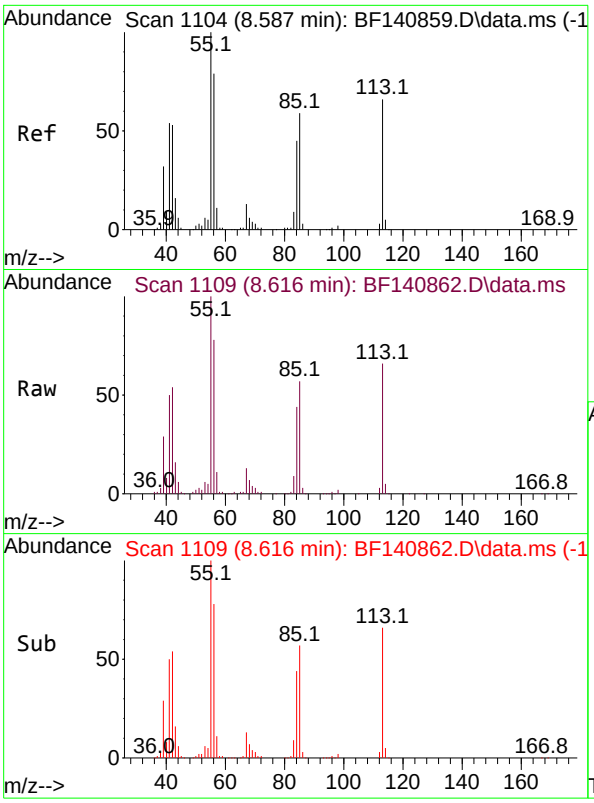


#34
Hexachlorobutadiene
Concen: 74.615 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:225 Resp: 282790

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.6	74.4
227	63.7	50.7	76.1



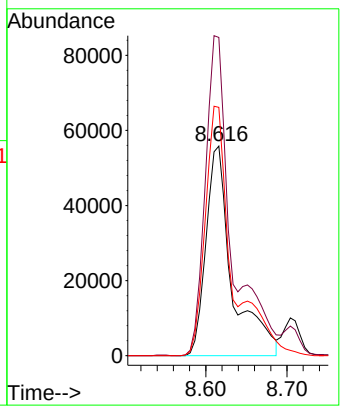


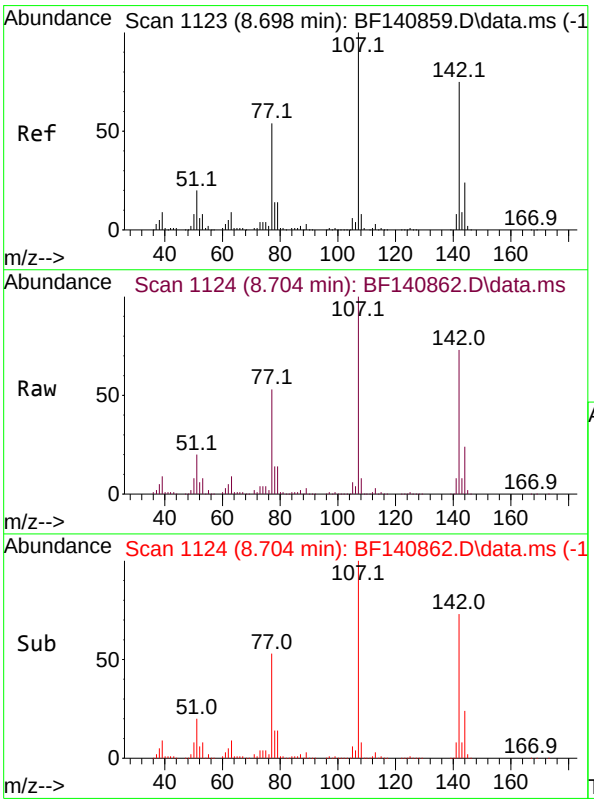
#35
Caprolactam
Concen: 85.813 ng m
RT: 8.616 min Scan# 11
Delta R.T. 0.029 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 125537

Ion	Ratio	Lower	Upper
113	100		
55	151.8	132.3	172.3
56	118.4	100.3	140.3

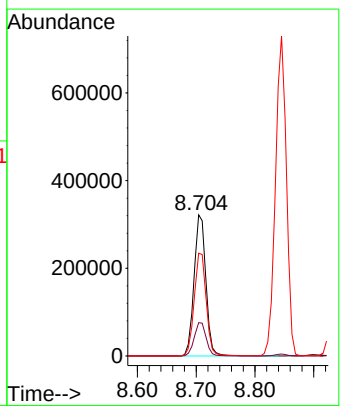


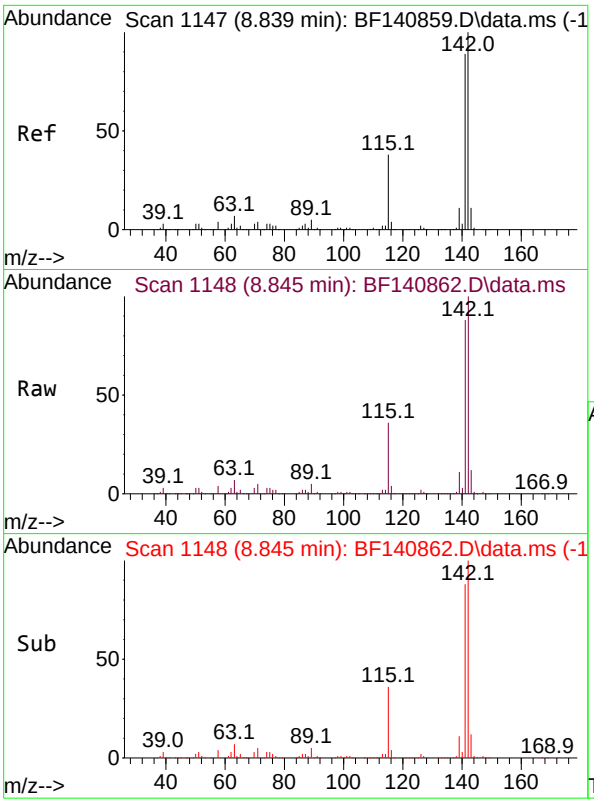


#36
4-Chloro-3-methylphenol
Concen: 81.301 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:107 Resp: 449654

Ion	Ratio	Lower	Upper
107	100		
144	23.5	19.4	29.2
142	72.8	60.3	90.5



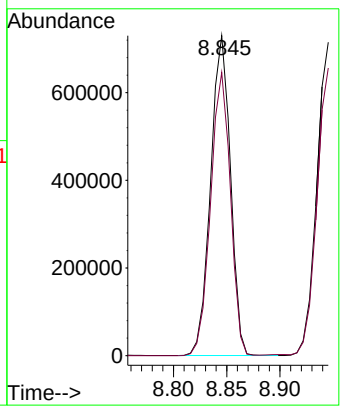


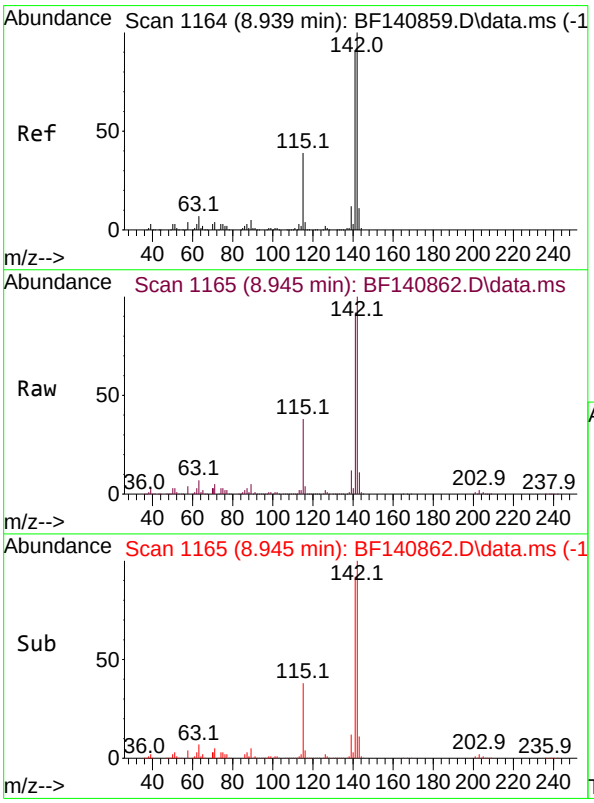
#37
2-Methylnaphthalene
Concen: 80.295 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 942892

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.0	106.6

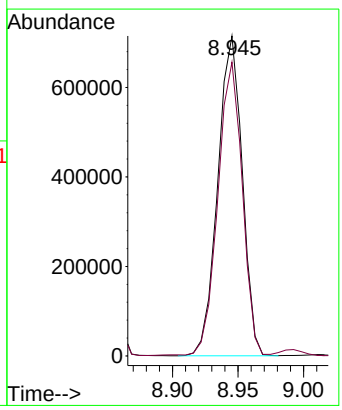


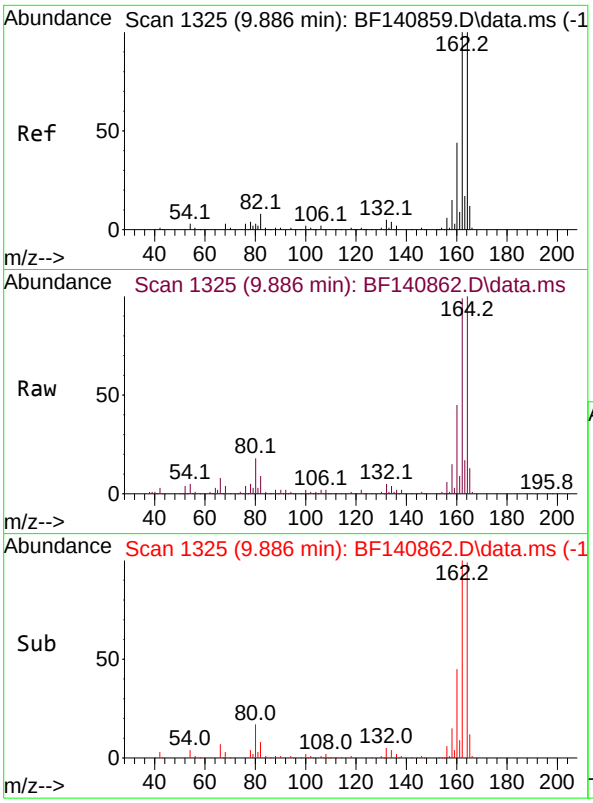


#38
1-Methylnaphthalene
Concen: 79.695 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:142 Resp: 925535

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.0



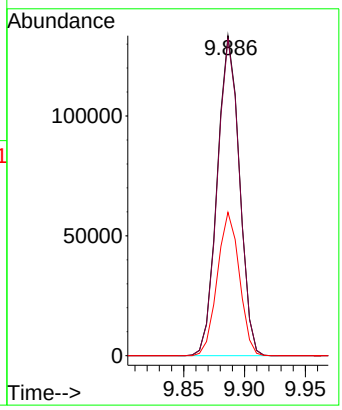


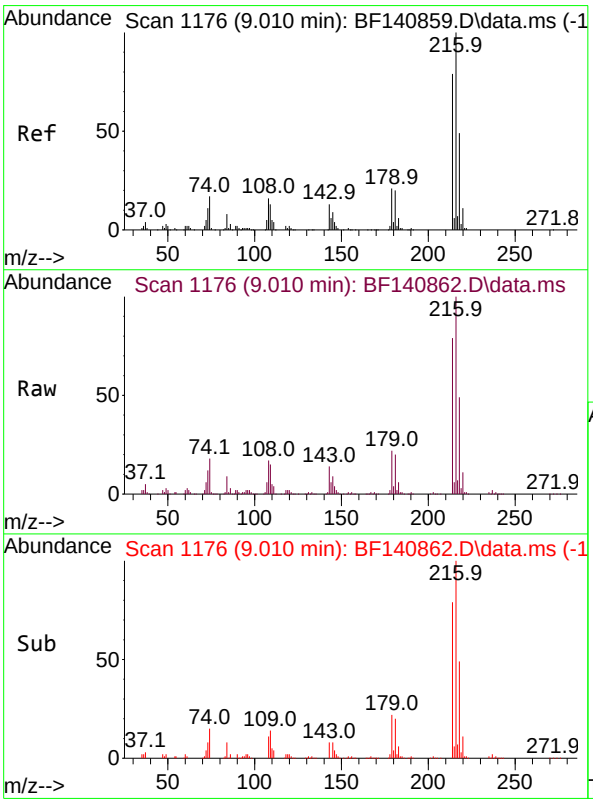
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 169321

Ion	Ratio	Lower	Upper
164	100		
162	99.0	79.9	119.9
160	44.8	35.2	52.8

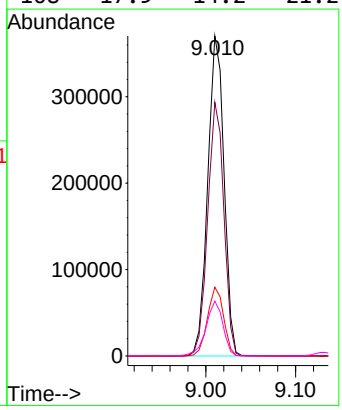


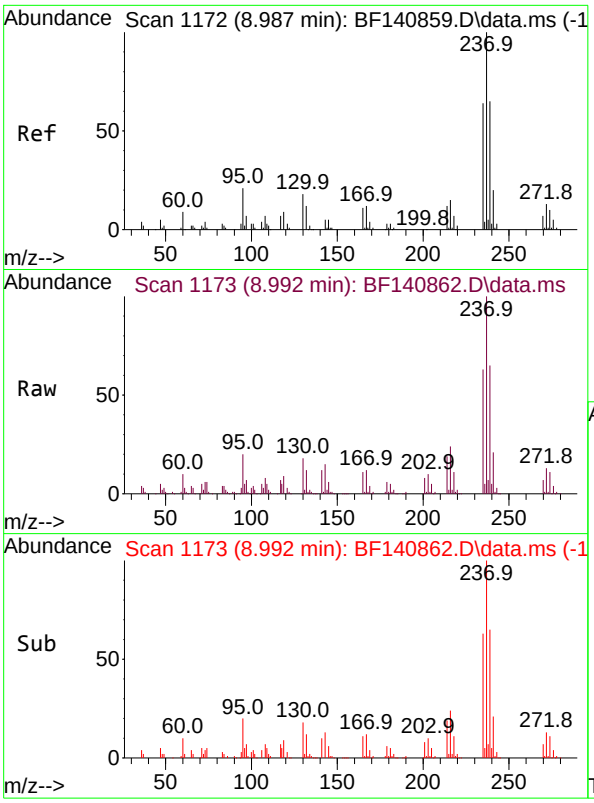


#40
1,2,4,5-Tetrachlorobenzene
Concen: 89.625 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:216 Resp: 466438

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.6	95.4
179	21.3	17.0	25.4
108	17.9	14.2	21.2



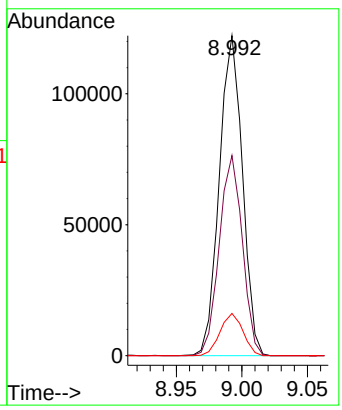


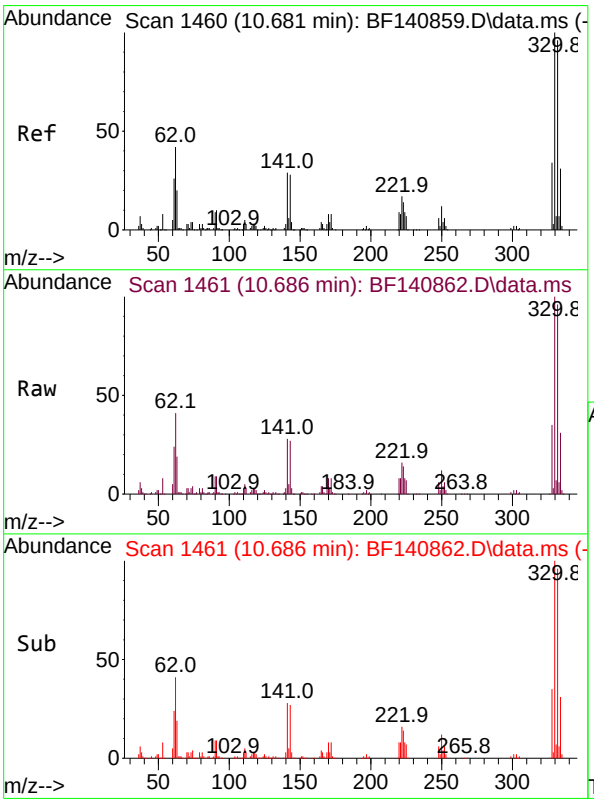
#41
Hexachlorocyclopentadiene
Concen: 80.025 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 149909

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.7	83.7
272	13.2	0.0	32.9

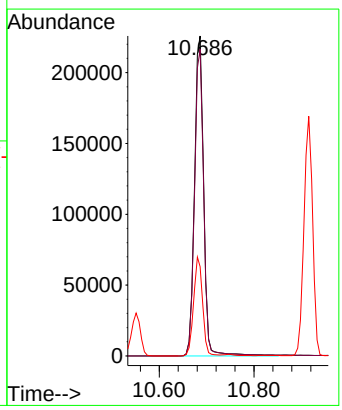


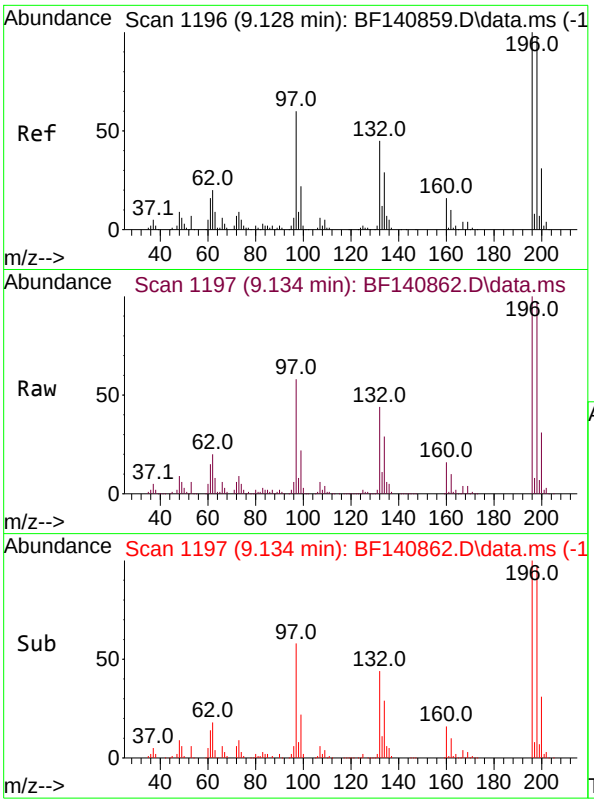


#42
2,4,6-Tribromophenol
Concen: 152.164 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:330 Resp: 304721

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.2	114.4
141	30.2	24.9	37.3



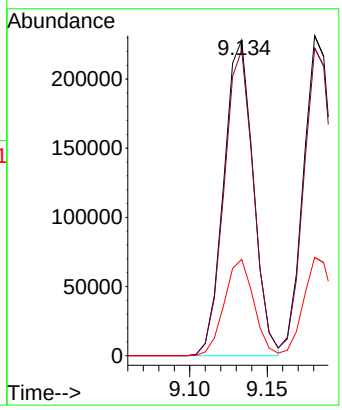


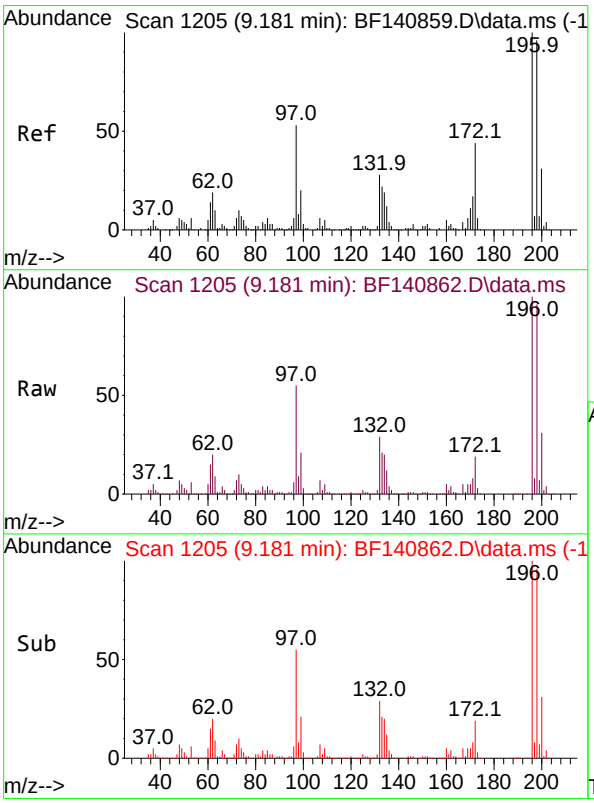
#43
2,4,6-Trichlorophenol
Concen: 94.714 ng
RT: 9.134 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 301828

Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.4	116.0
200	30.5	24.5	36.7

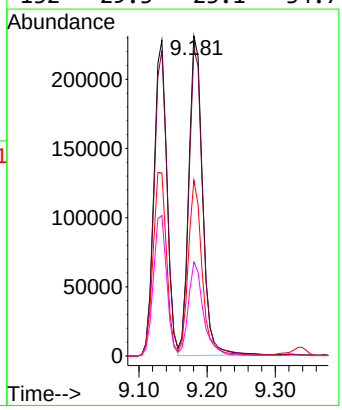


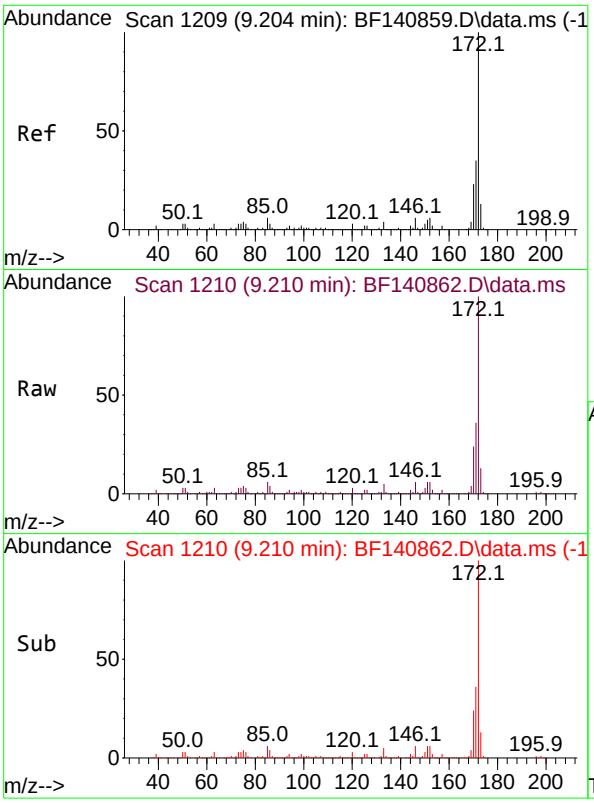


#44
2,4,5-Trichlorophenol
Concen: 91.760 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:196 Resp: 321402

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.2	115.8
97	54.9	42.2	63.4
132	29.3	23.1	34.7



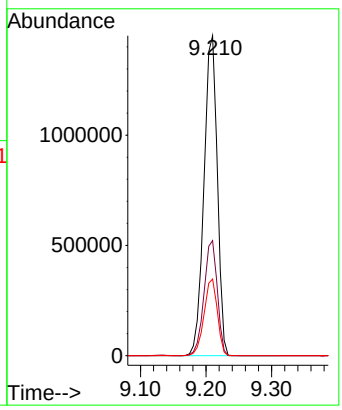


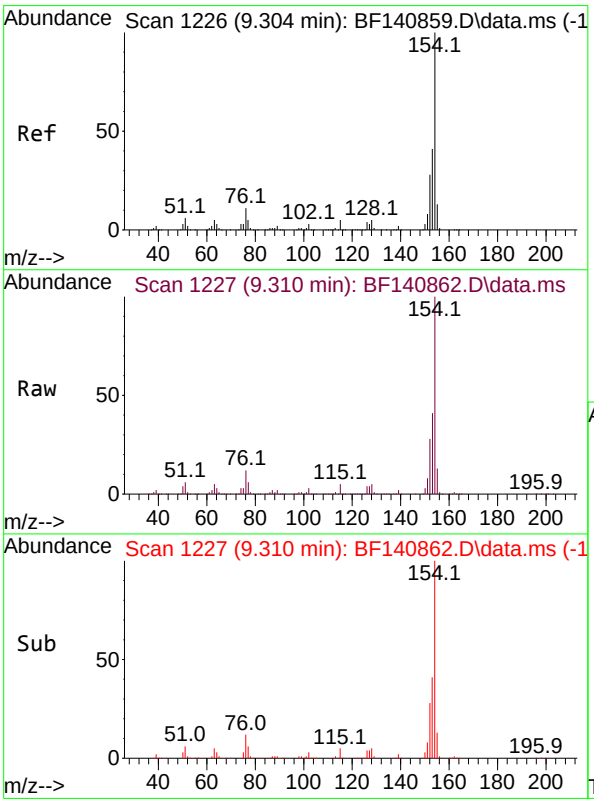
#45
2-Fluorobiphenyl
Concen: 166.807 ng
RT: 9.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 2054327

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.4	42.6
170	24.0	18.6	28.0

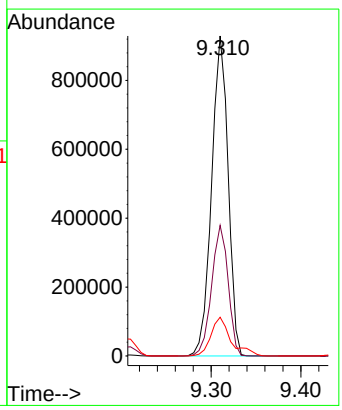


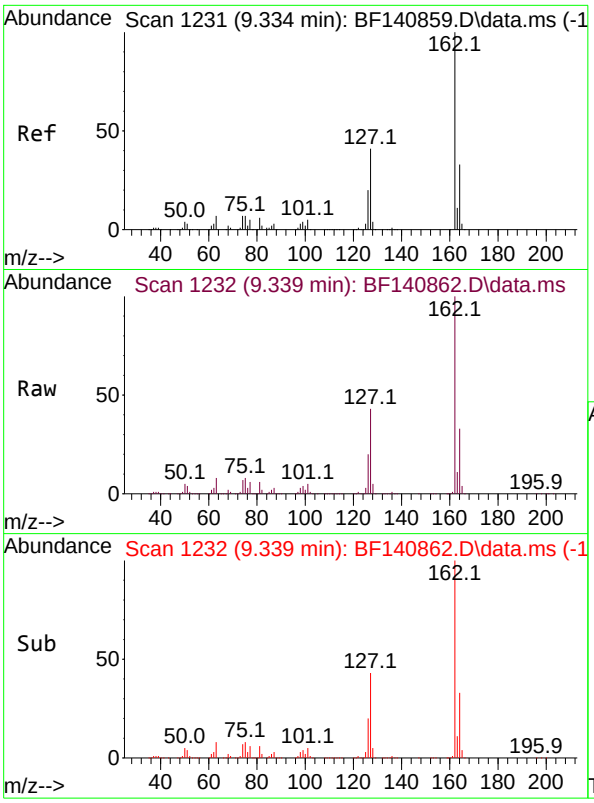


#46
1,1'-Biphenyl
Concen: 88.155 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:154 Resp: 1186930

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	12.1	0.0	31.0



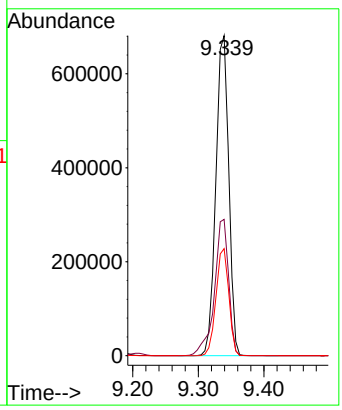


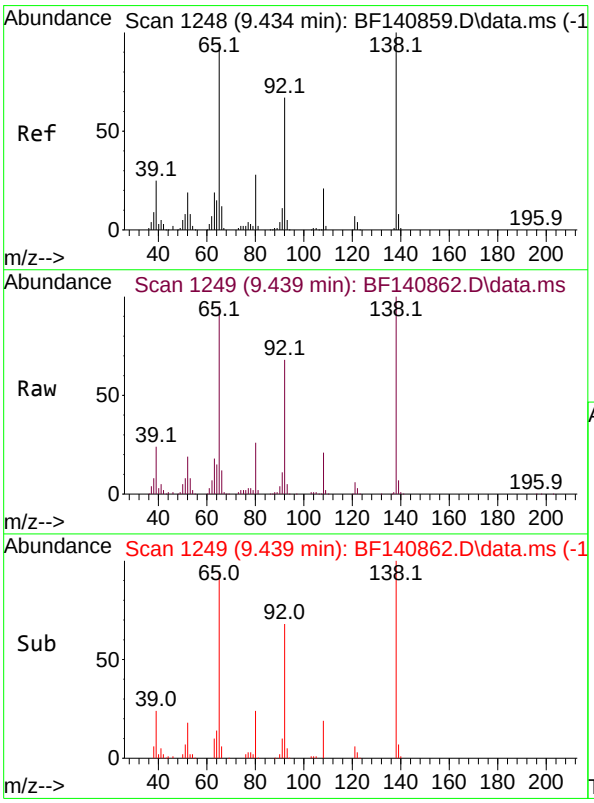
#47
2-Chloronaphthalene
Concen: 90.075 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 927799

Ion	Ratio	Lower	Upper
162	100		
127	42.6	33.5	50.3
164	33.4	26.2	39.2

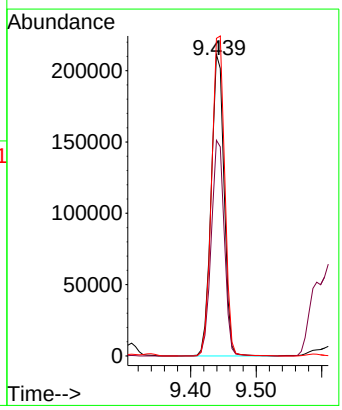


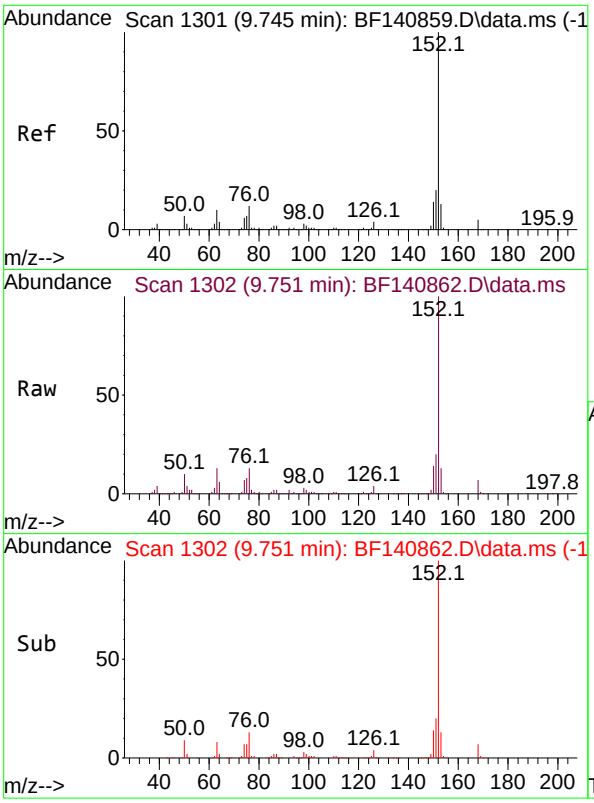


#48
2-Nitroaniline
Concen: 93.162 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 65 Resp: 289810

Ion	Ratio	Lower	Upper
65	100		
92	71.5	56.3	84.5
138	105.3	83.8	125.6



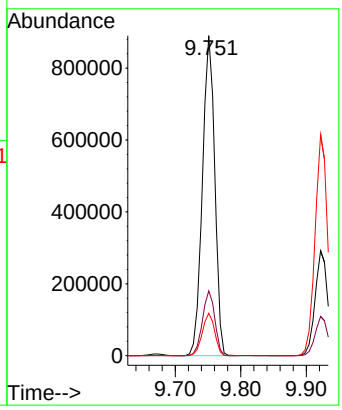


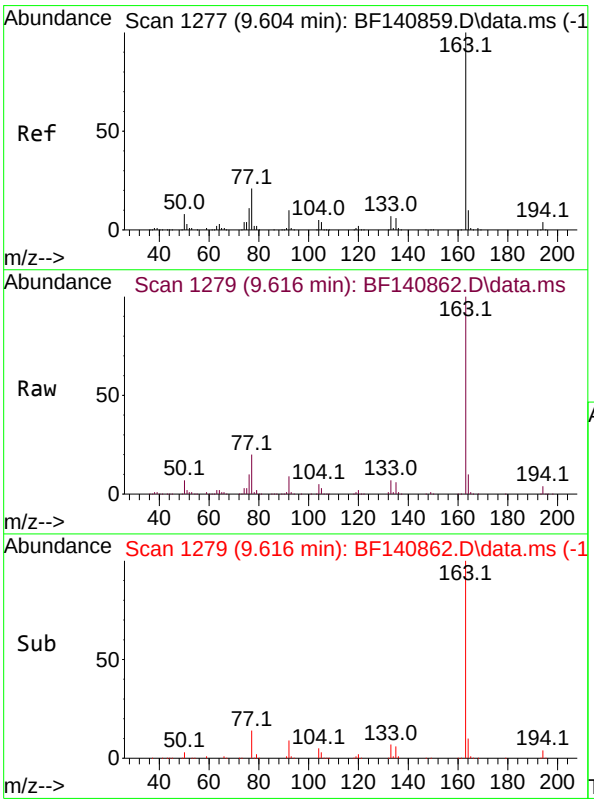
#49
Acenaphthylene
Concen: 77.278 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 1169747

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	13.3	10.6	16.0

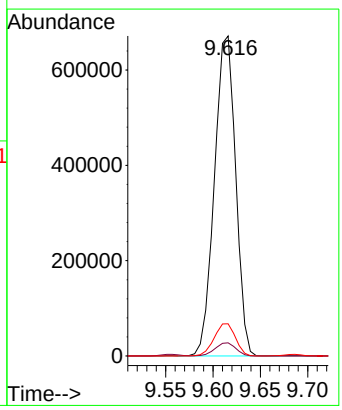


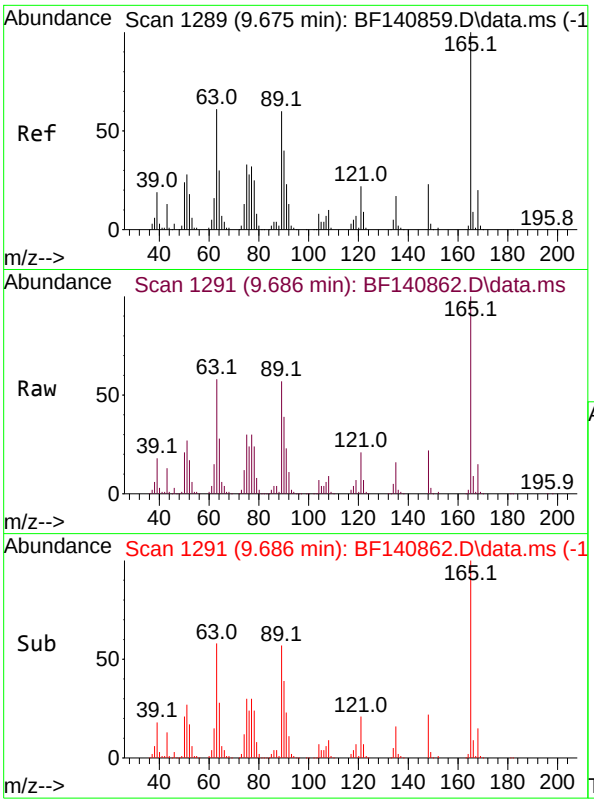


#50
Dimethylphthalate
Concen: 87.890 ng
RT: 9.616 min Scan# 1279
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:163 Resp: 1049196

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.1	8.1	12.1



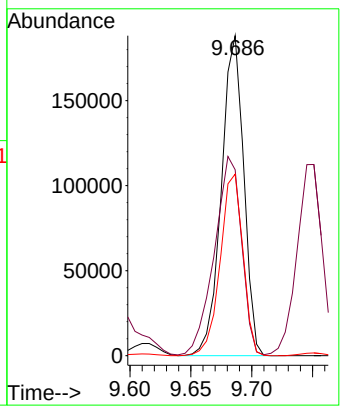


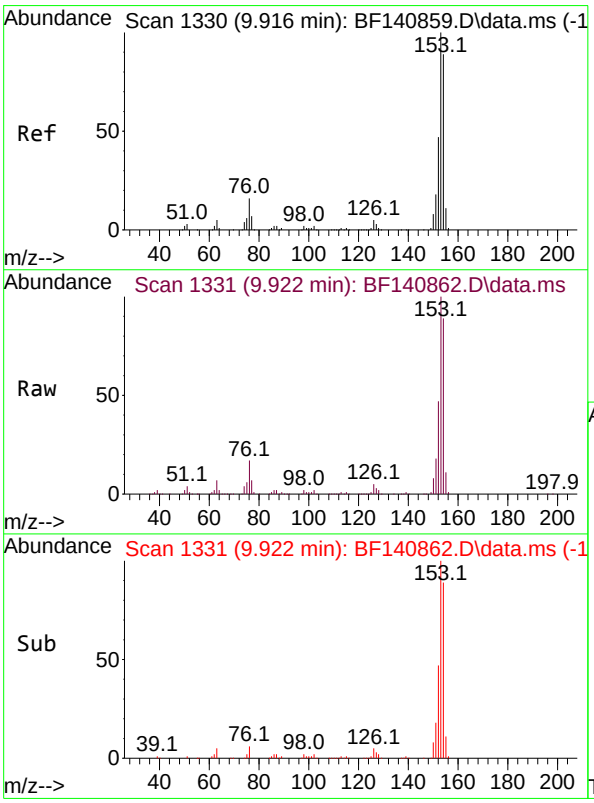
#51
2,6-Dinitrotoluene
Concen: 88.104 ng
RT: 9.686 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 240439

Ion	Ratio	Lower	Upper
165	100		
63	58.1	49.7	74.5
89	56.8	48.2	72.4

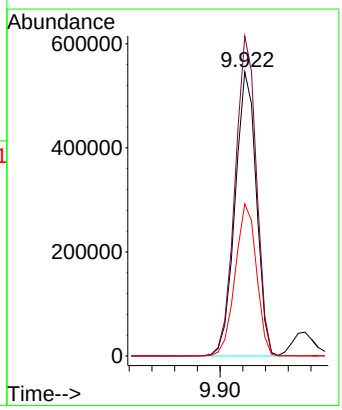


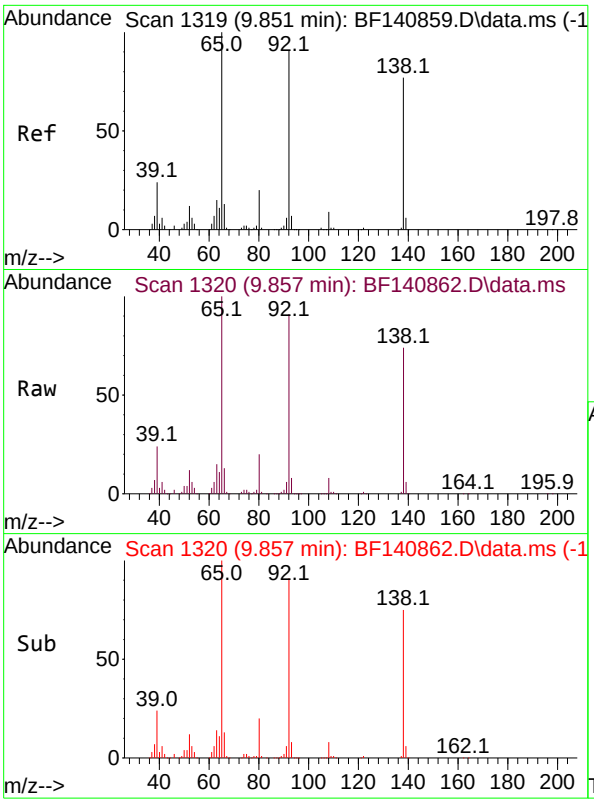


#52
Acenaphthene
Concen: 73.511 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:154 Resp: 710789

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.9	134.9
152	53.5	42.6	63.8



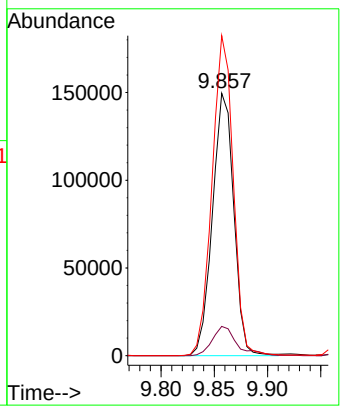


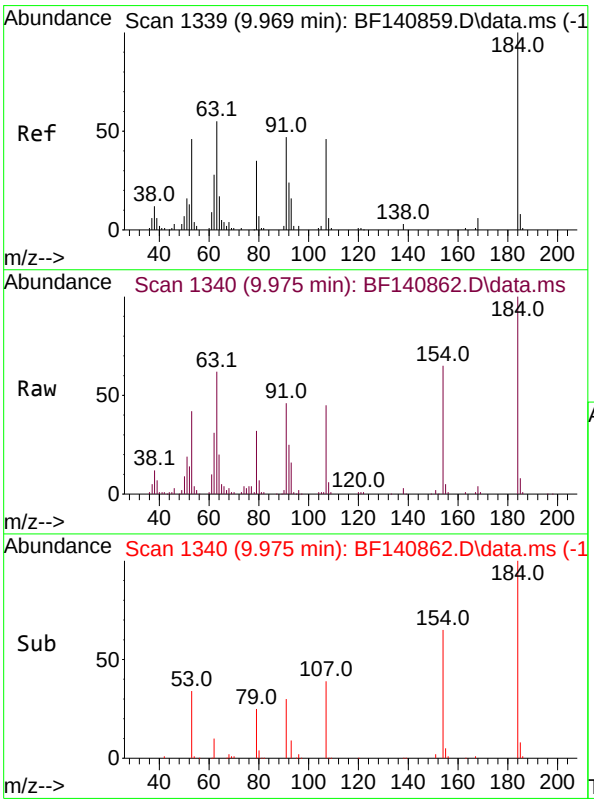
#53
3-Nitroaniline
Concen: 76.804 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 208004

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	122.0	95.5	143.3

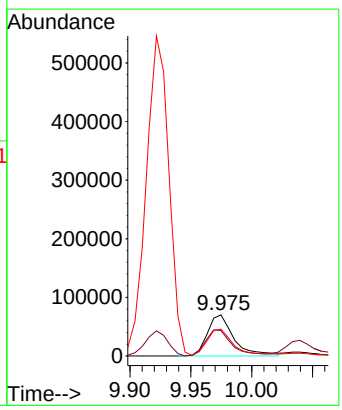


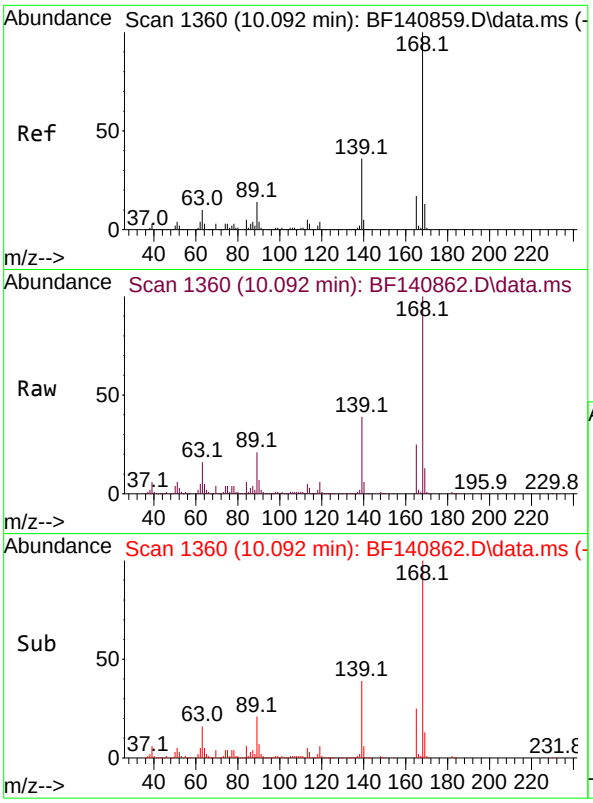


#54
2,4-Dinitrophenol
Concen: 79.797 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:184 Resp: 106230

Ion	Ratio	Lower	Upper
184	100		
63	62.0	51.6	77.4
154	65.4	56.1	84.1



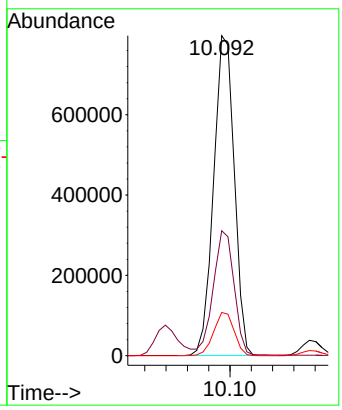


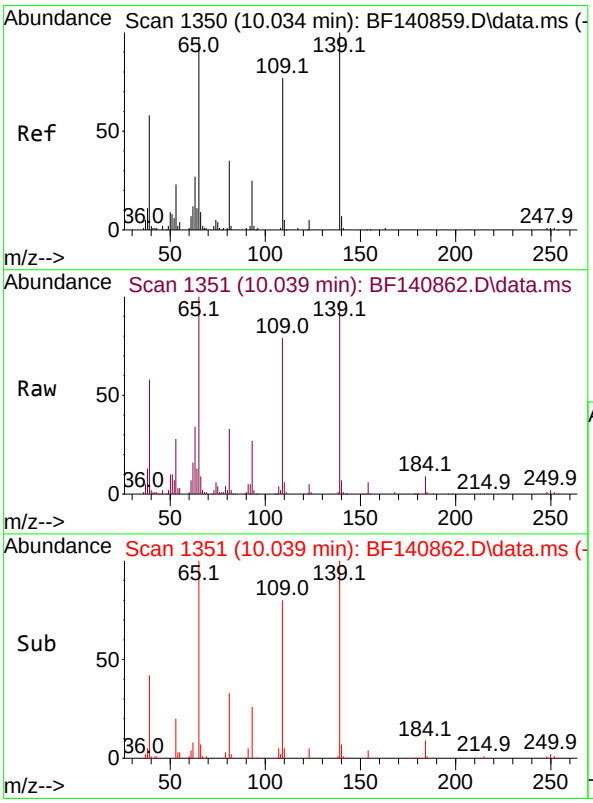
#55
Dibenzofuran
Concen: 71.543 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 1071923

Ion	Ratio	Lower	Upper
168	100		
139	39.1	31.1	46.7
169	13.5	10.6	16.0

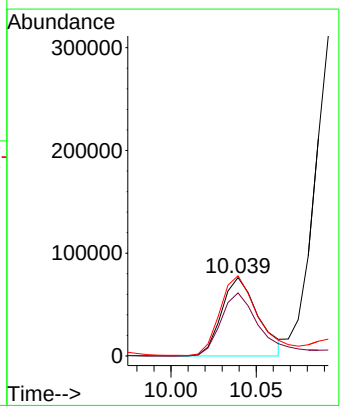


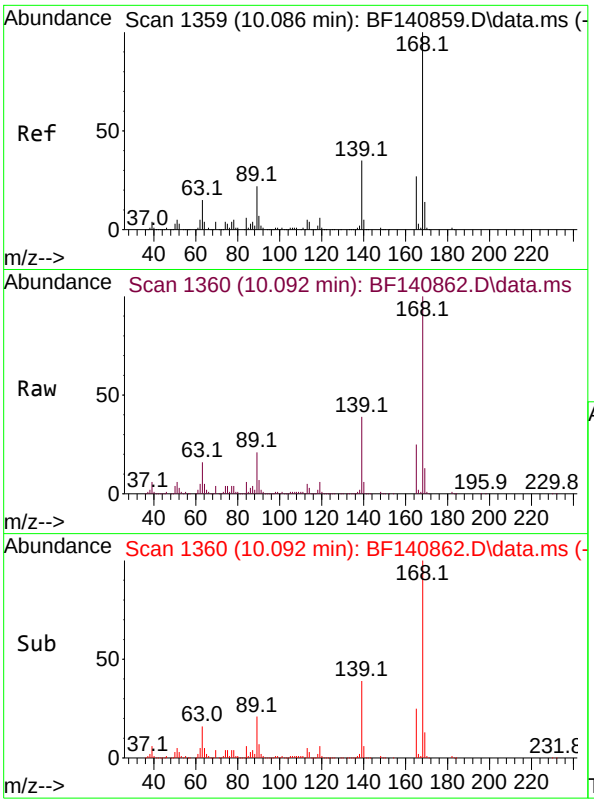


#56
4-Nitrophenol
Concen: 77.685 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.005 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:139 Resp: 112972

Ion	Ratio	Lower	Upper
139	100		
109	80.5	56.7	96.7
65	102.3	78.1	118.1



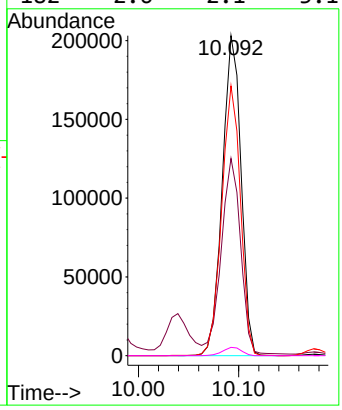


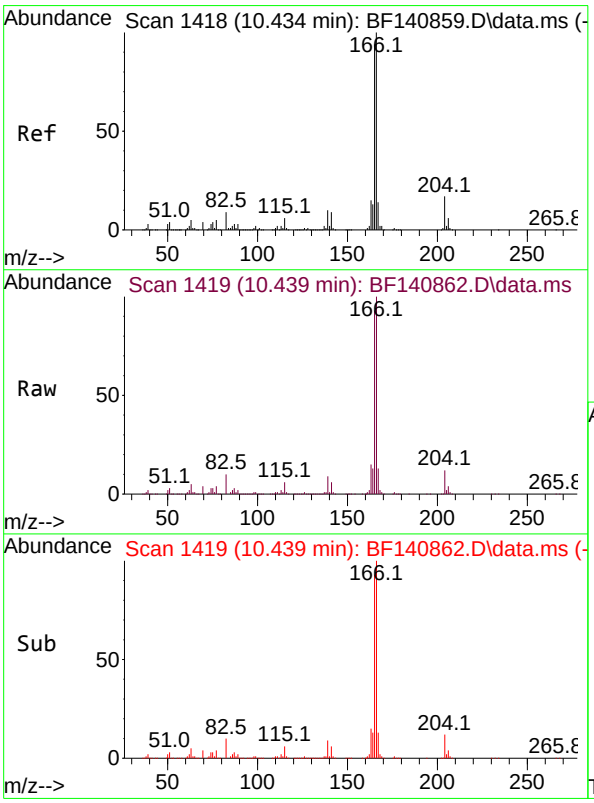
#57
2,4-Dinitrotoluene
Concen: 73.423 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 263636

Ion	Ratio	Lower	Upper
165	100		
63	61.7	49.3	73.9
89	84.3	66.2	99.4
182	2.6	2.1	3.1

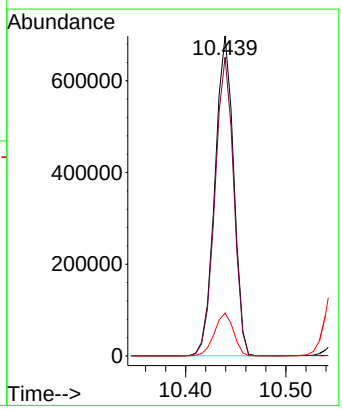


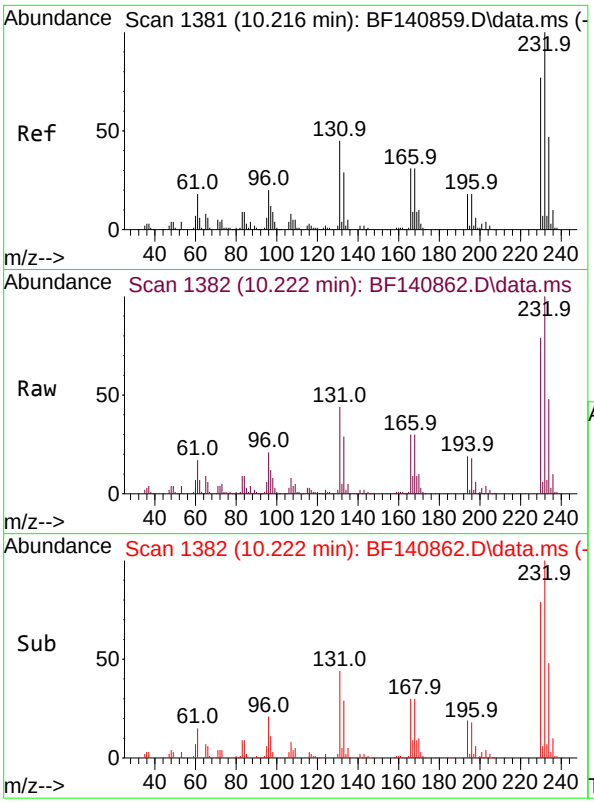


#58
Fluorene
Concen: 73.147 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:166 Resp: 904163

Ion	Ratio	Lower	Upper
166	100		
165	93.3	75.1	112.7
167	13.4	11.1	16.7



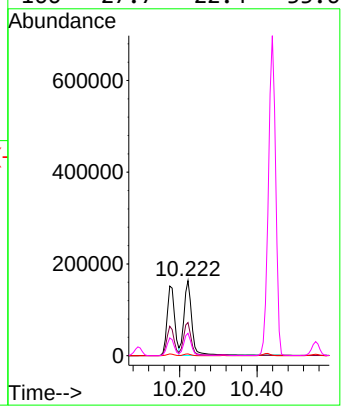


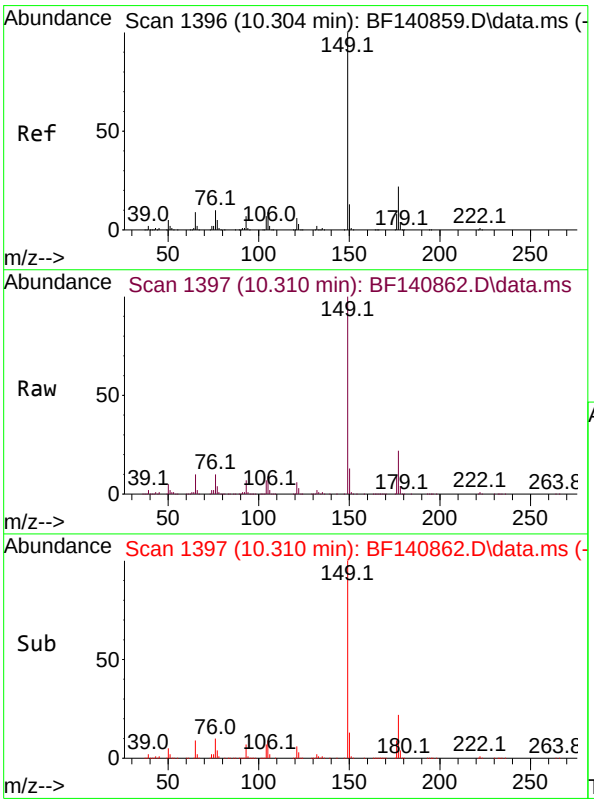
#59
2,3,4,6-Tetrachlorophenol
Concen: 80.870 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 230812

Ion	Ratio	Lower	Upper
232	100		
131	43.4	35.1	52.7
130	2.1	1.8	2.8
166	27.7	22.4	33.6

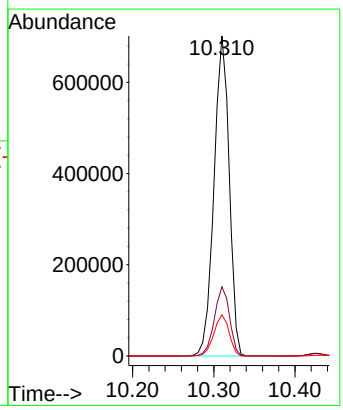


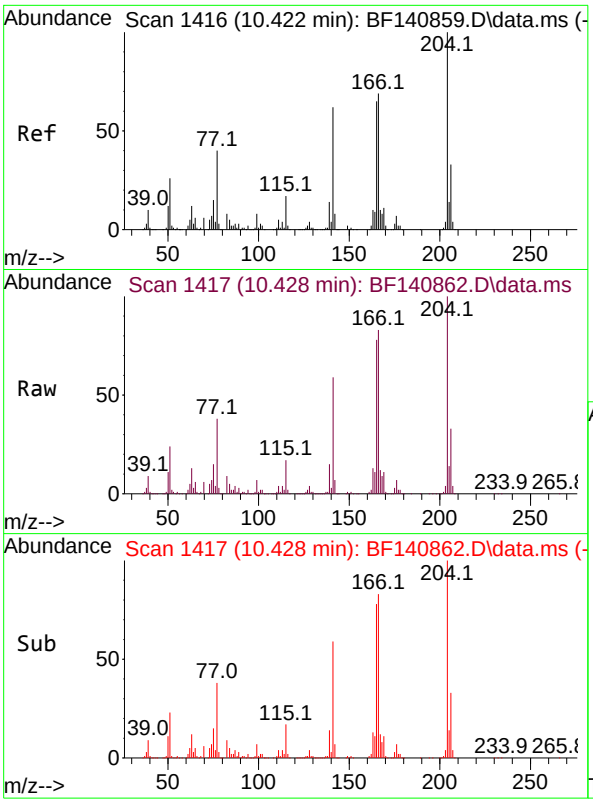


#60
Diethylphthalate
Concen: 73.664 ng
RT: 10.310 min Scan# 1397
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 911868

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.2	25.8
150	12.8	10.1	15.1



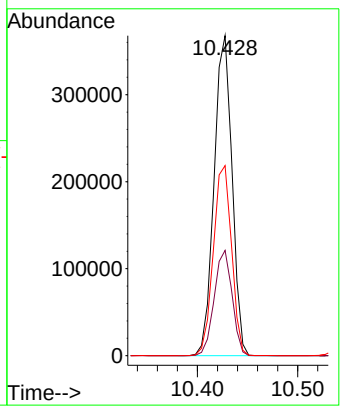


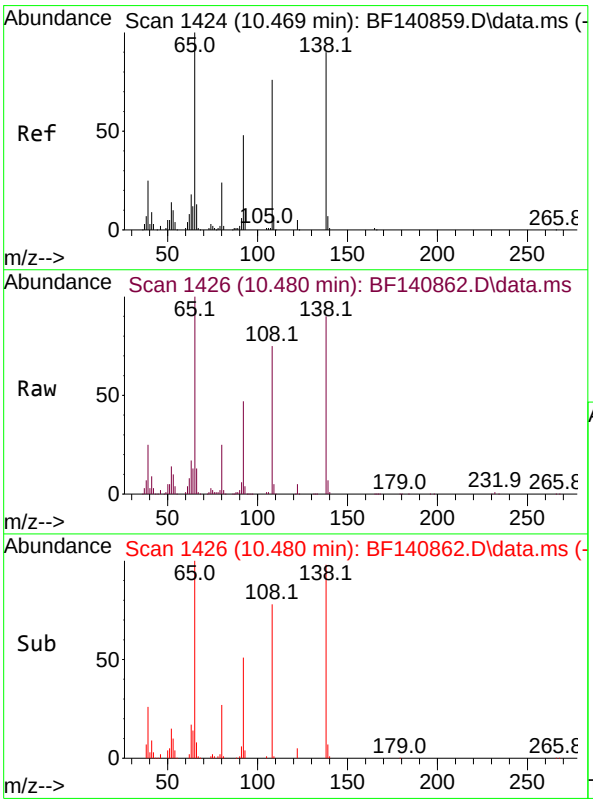
#61
4-Chlorophenyl-phenylether
Concen: 73.562 ng
RT: 10.428 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 456754

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.5	39.7
141	59.4	50.0	75.0

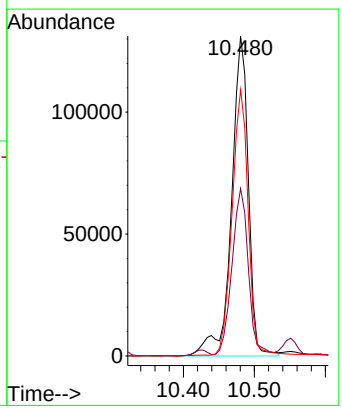


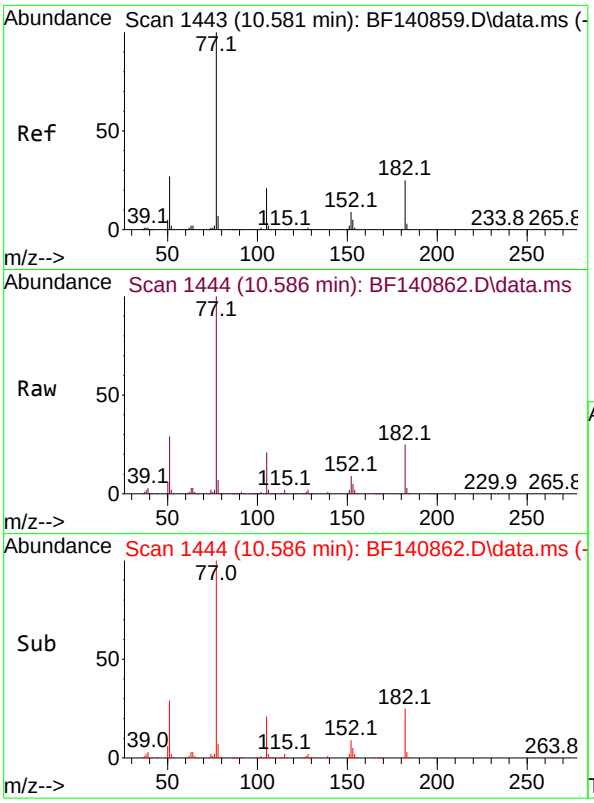


#62
4-Nitroaniline
Concen: 76.547 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:138 Resp: 216635

Ion	Ratio	Lower	Upper
138	100		
92	52.3	32.6	72.6
108	83.2	64.1	104.1



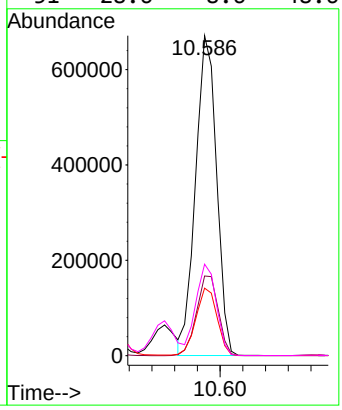


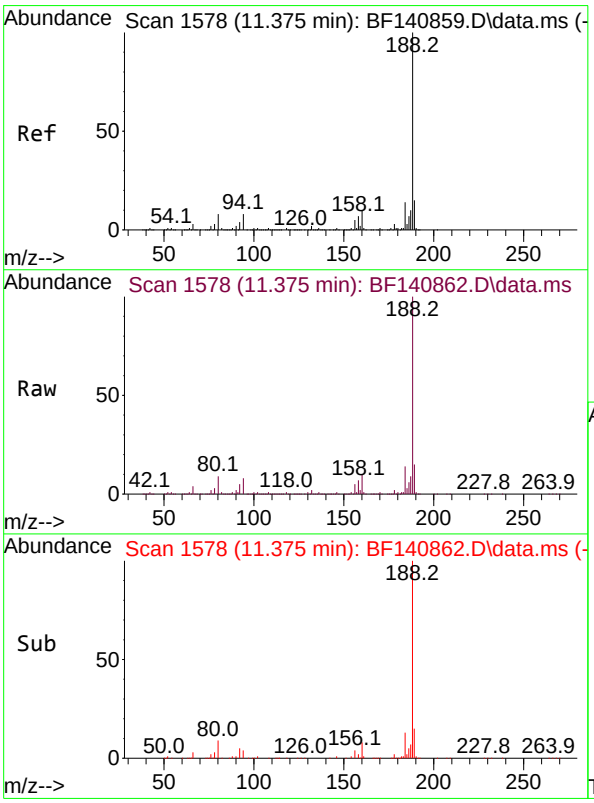
#63
Azobenzene
Concen: 74.110 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 862457

Ion	Ratio	Lower	Upper
77	100		
182	24.9	4.5	44.5
105	21.1	0.9	40.9
51	28.6	8.6	48.6

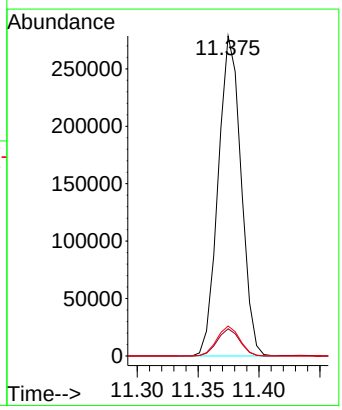


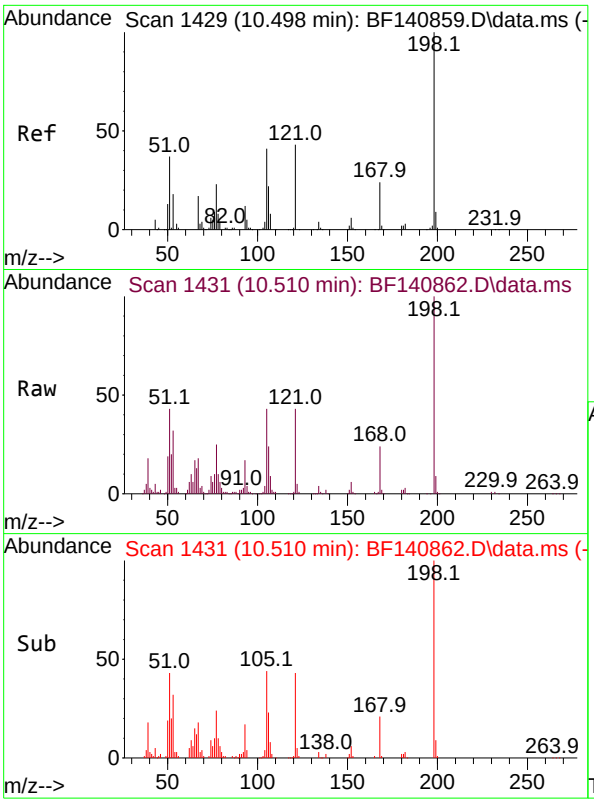


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:188 Resp: 364516

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	9.4	6.8	10.2



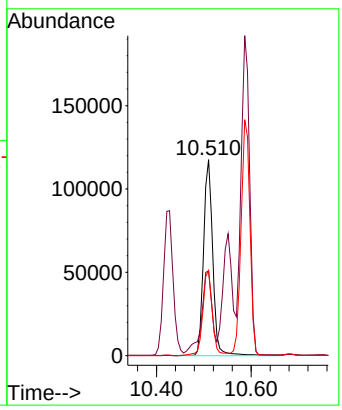


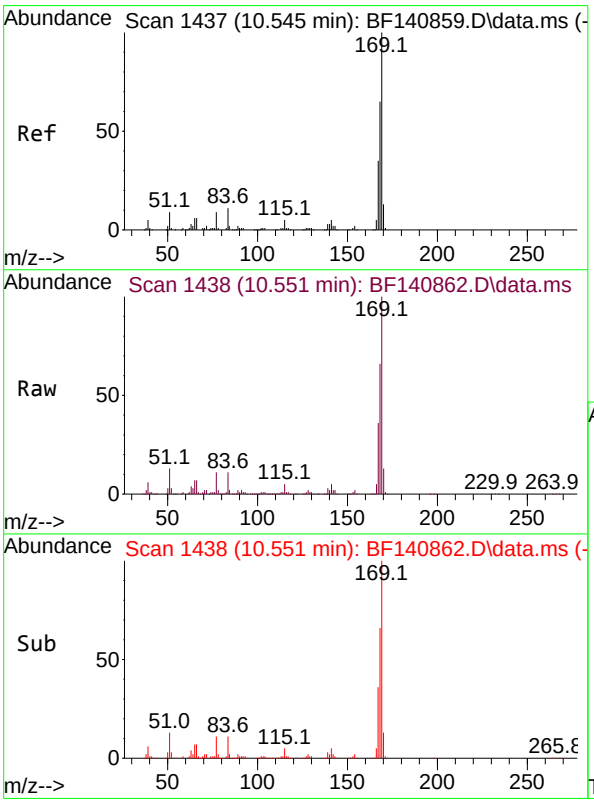
#65
4,6-Dinitro-2-methylphenol
Concen: 76.975 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 158996

Ion	Ratio	Lower	Upper
198	100		
51	43.3	24.4	64.4
105	43.4	22.1	62.1

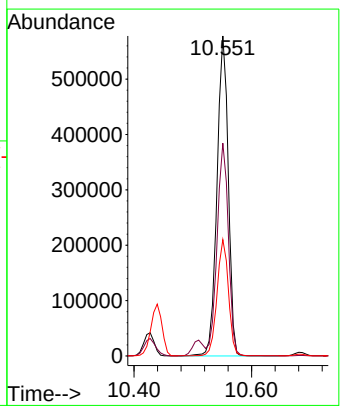


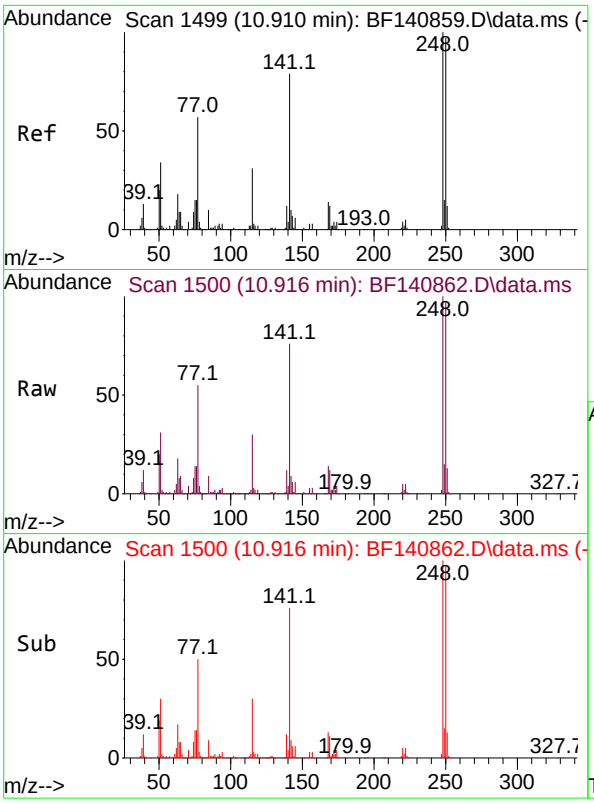


#66
n-Nitrosodiphenylamine
Concen: 68.519 ng
RT: 10.551 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:169 Resp: 767906

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.4	80.0
167	36.3	28.3	42.5



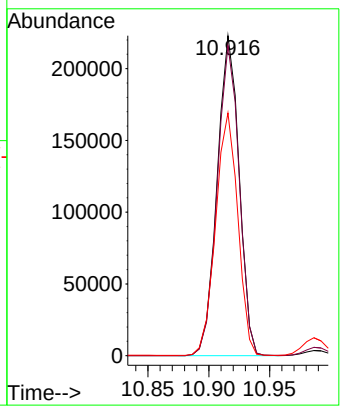


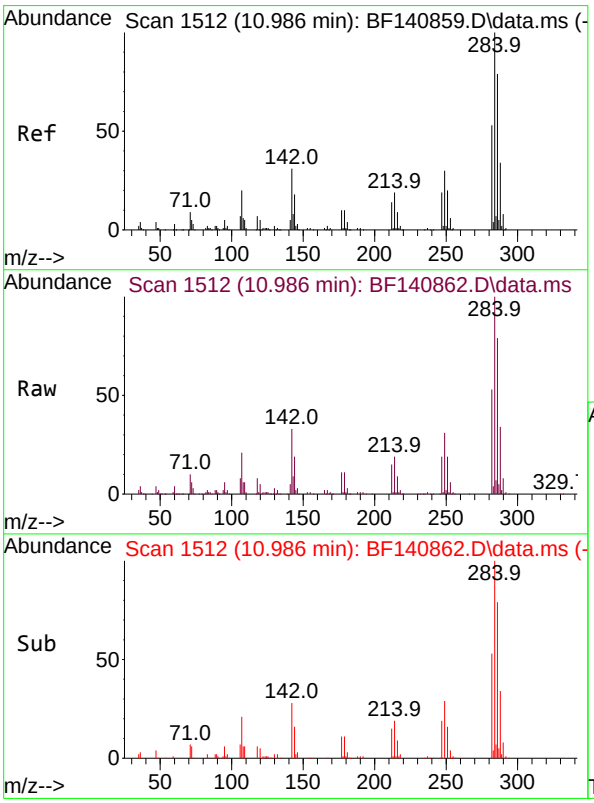
#67
4-Bromophenyl-phenylether
Concen: 68.648 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 279941

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.4	116.2
141	75.9	62.9	94.3

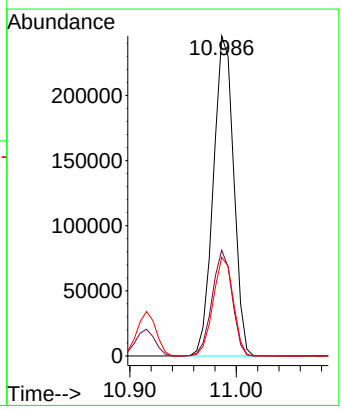


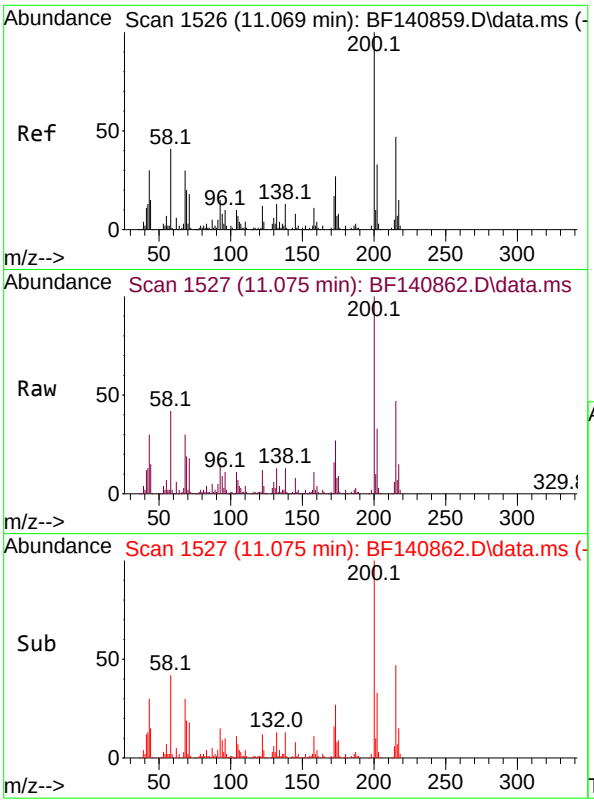


#68
Hexachlorobenzene
Concen: 70.220 ng
RT: 10.986 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:284 Resp: 324661

Ion	Ratio	Lower	Upper
284	100		
142	33.1	24.6	36.8
249	30.9	24.3	36.5



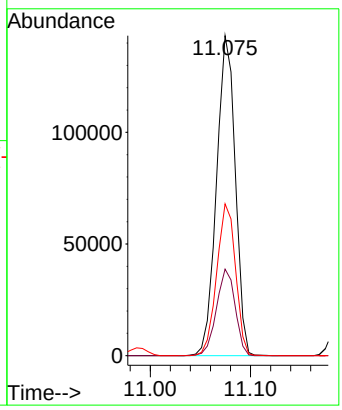


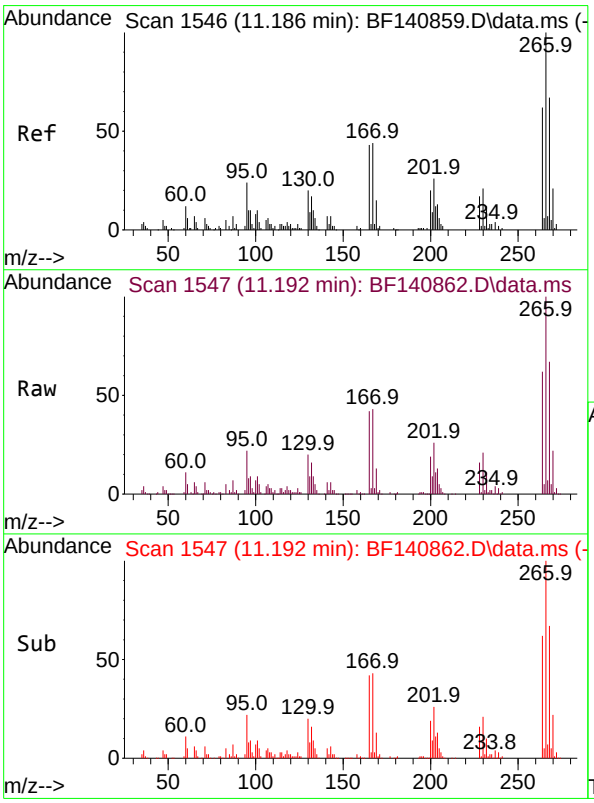
#69
Atrazine
Concen: 59.385 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 185877

Ion	Ratio	Lower	Upper
200	100		
173	27.1	6.6	46.6
215	47.4	26.7	66.7

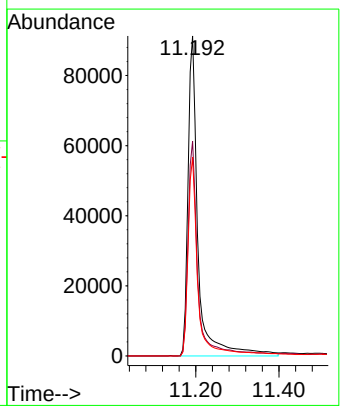


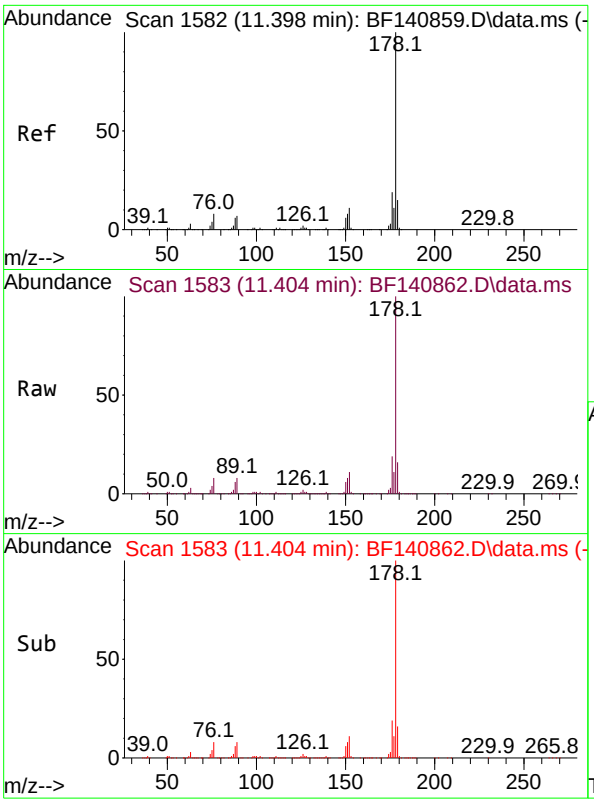


#70
Pentachlorophenol
Concen: 91.050 ng
RT: 11.192 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:266 Resp: 153999

Ion	Ratio	Lower	Upper
266	100		
268	67.1	54.0	81.0
264	62.1	49.4	74.2



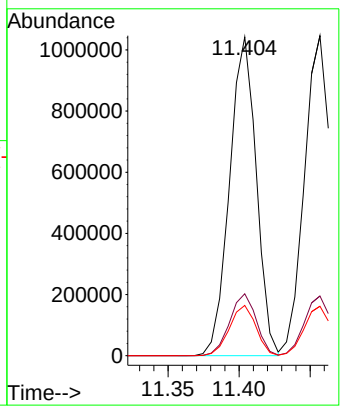


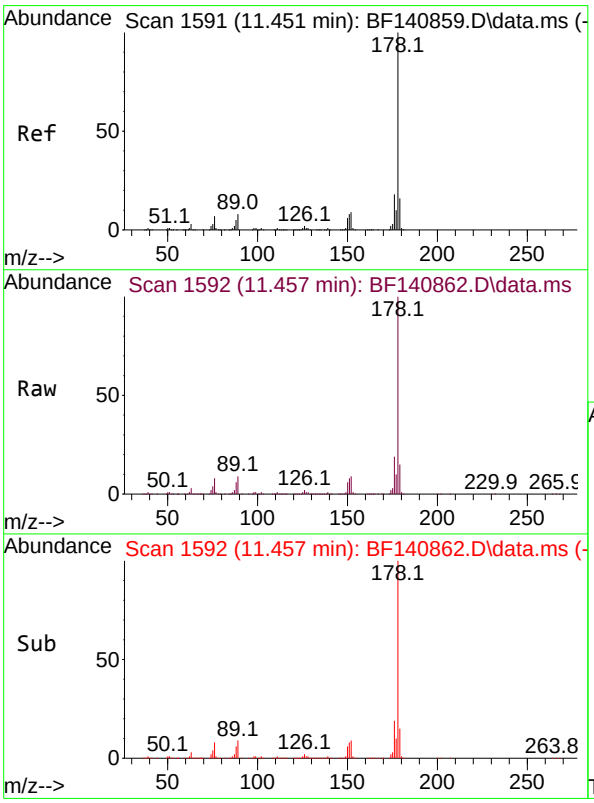
#71
Phenanthrene
Concen: 72.850 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1365579

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.8	12.1	18.1

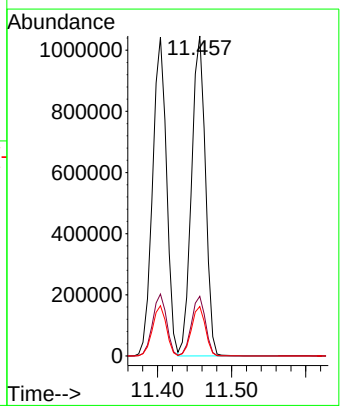


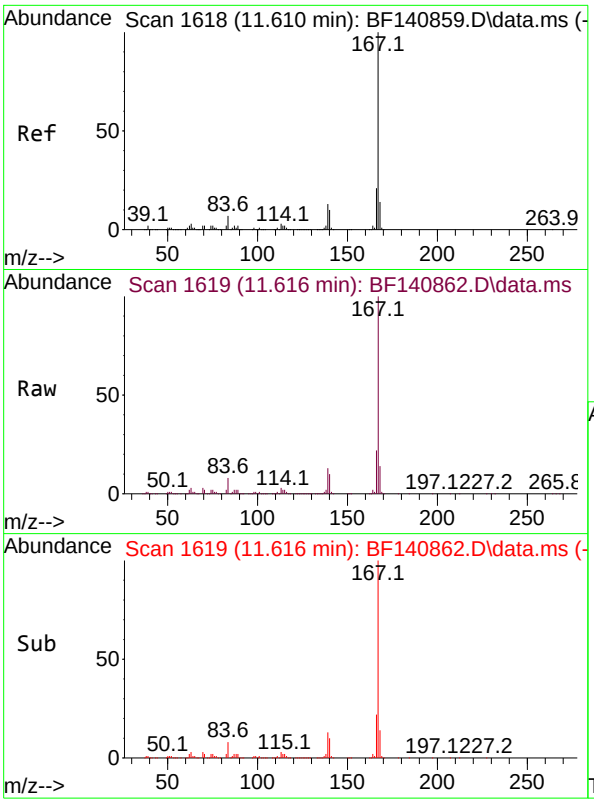


#72
Anthracene
Concen: 73.769 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:178 Resp: 1361788

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.4	12.6	18.8



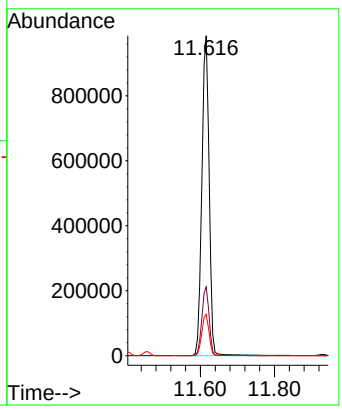


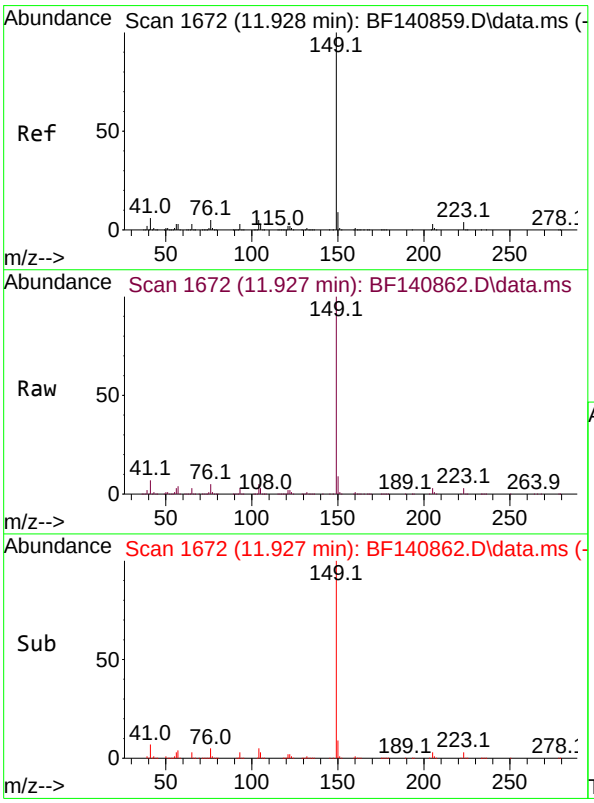
#73
Carbazole
Concen: 74.170 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 1341097

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	12.9	10.2	15.2

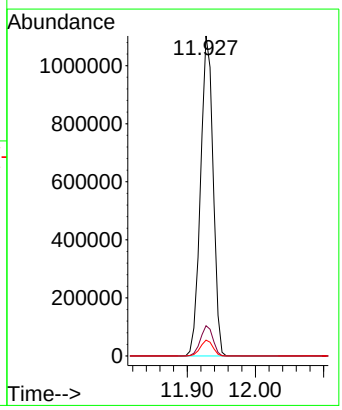


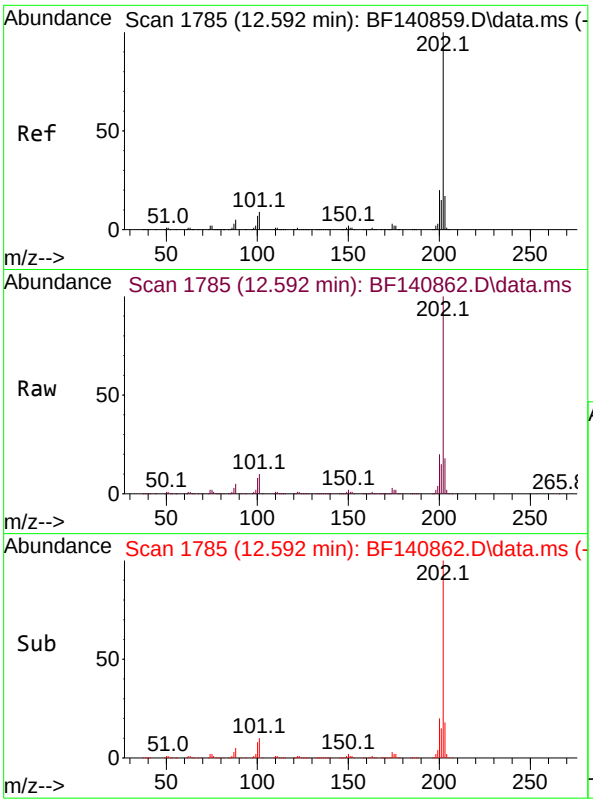


#74
Di-n-butylphthalate
Concen: 66.492 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 1410986

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.5	11.3
104	5.0	3.8	5.8



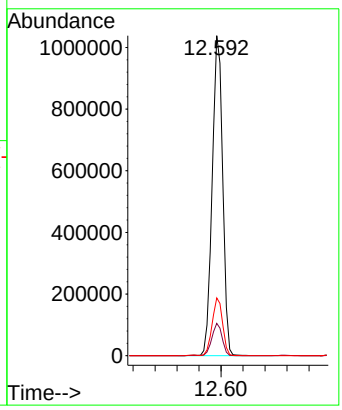


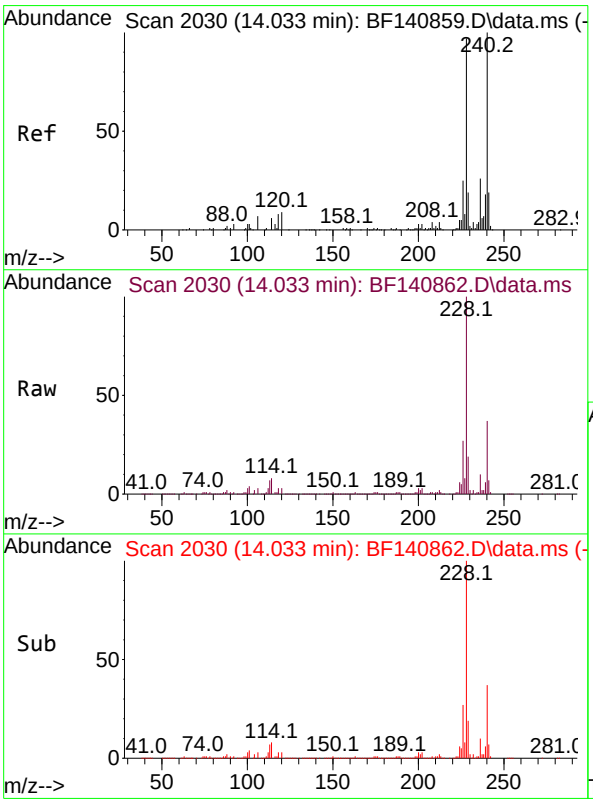
#75
Fluoranthene
Concen: 63.687 ng
RT: 12.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 1374862

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.3
203	18.1	0.0	37.4

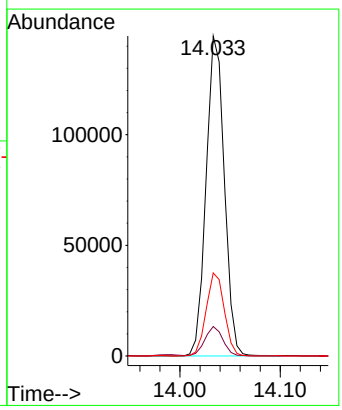


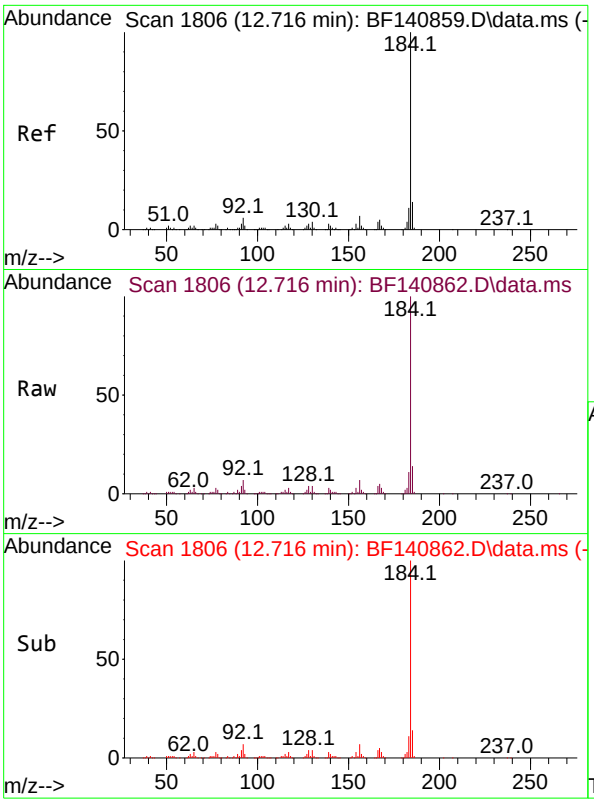


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:240 Resp: 182739

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.6	11.4
236	26.0	20.5	30.7



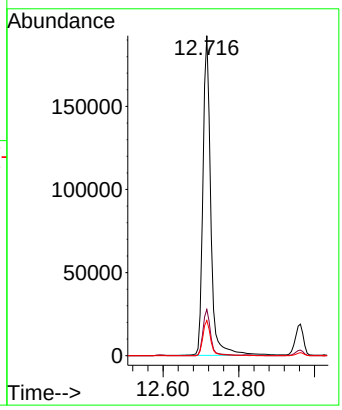


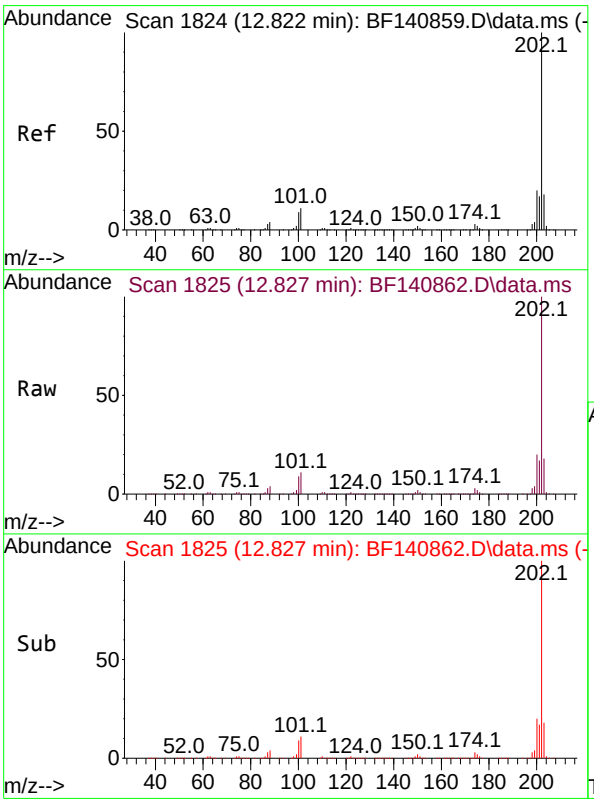
#77
Benzidine
Concen: 74.064 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 276230

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.1	16.7
183	11.0	9.0	13.4

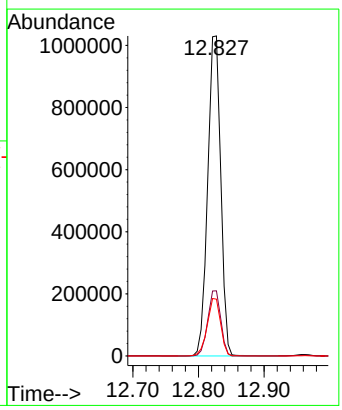


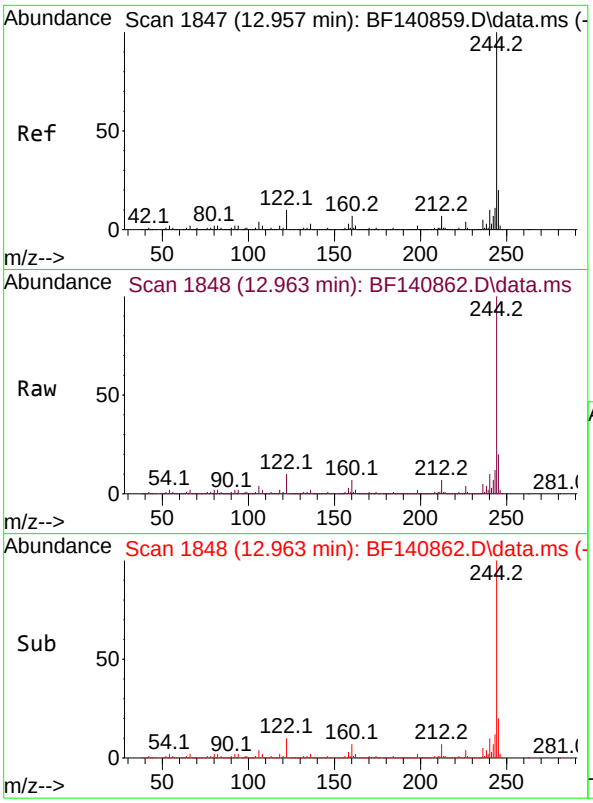


#78
Pyrene
Concen: 87.621 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:202 Resp: 1423860

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.1	24.1
203	17.8	14.2	21.4



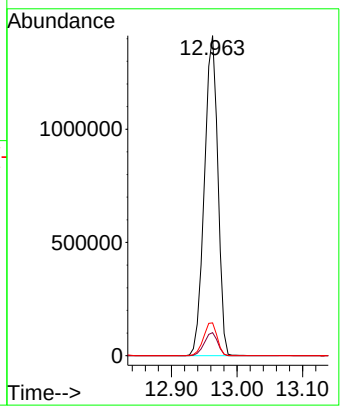


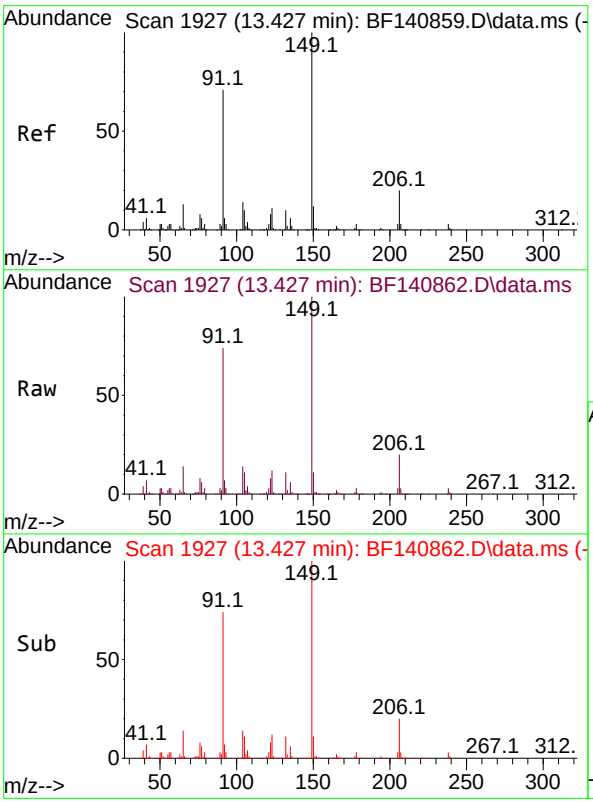
#79
Terphenyl-d14
Concen: 174.221 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 2018997

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	10.2	8.2	12.2

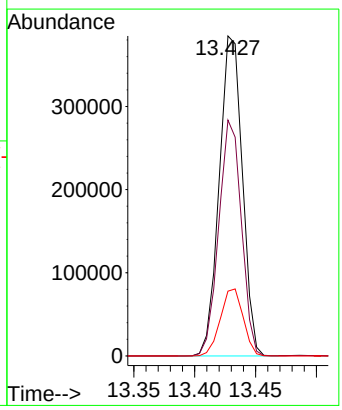


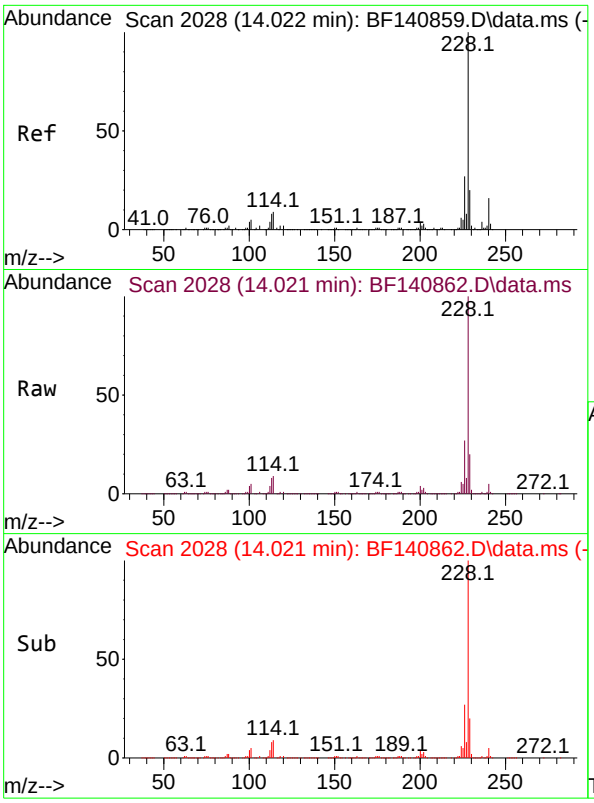


#80
Butylbenzylphthalate
Concen: 85.043 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 508497

Ion	Ratio	Lower	Upper
149	100		
91	73.7	56.7	85.1
206	20.3	16.4	24.6



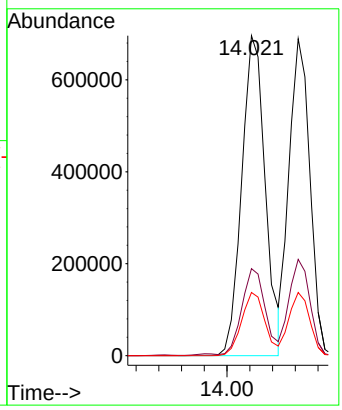


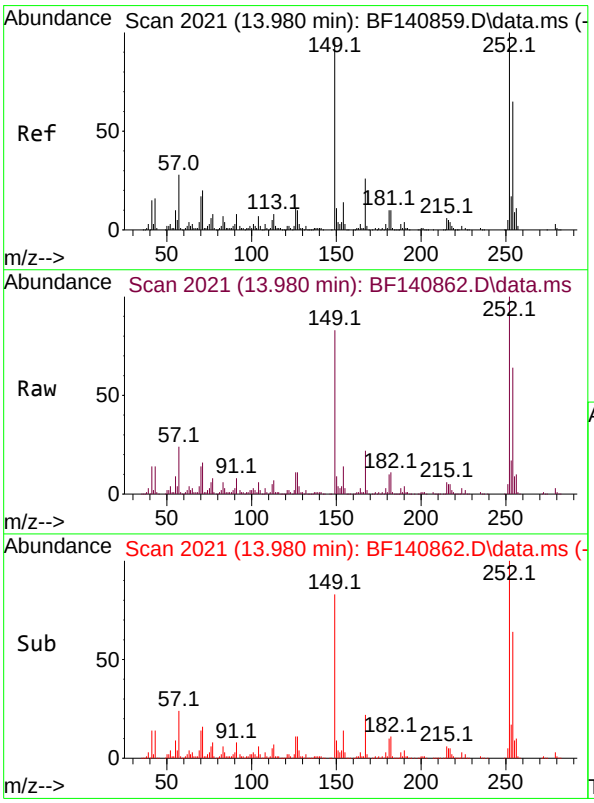
#81
Benzo(a)anthracene
Concen: 77.292 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 1001035

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	19.7	15.8	23.8

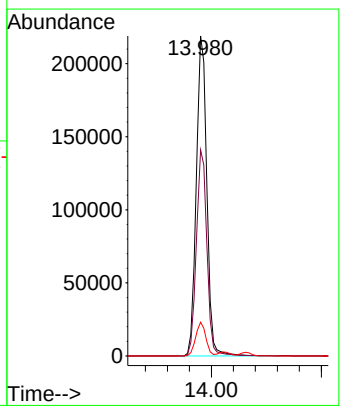


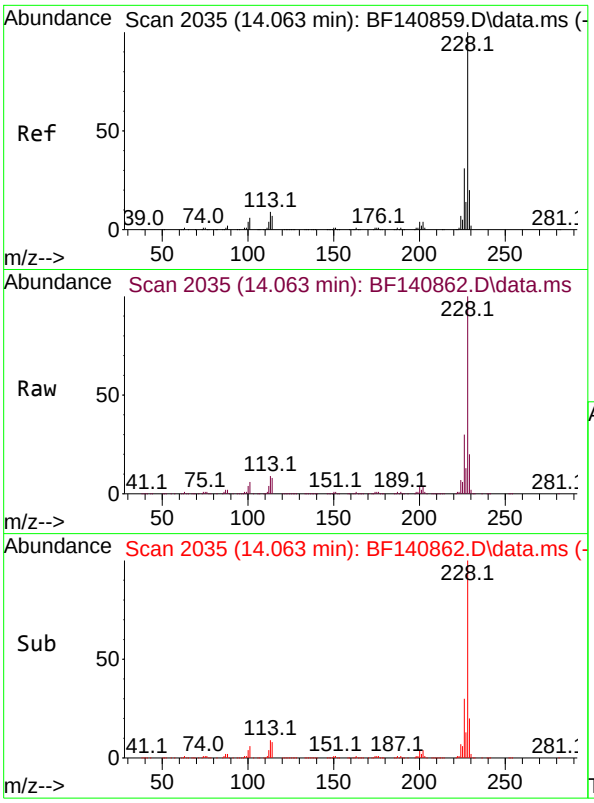


#82
3,3'-Dichlorobenzidine
Concen: 74.661 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:252 Resp: 291736

Ion	Ratio	Lower	Upper
252	100		
254	64.4	52.3	78.5
126	10.6	8.4	12.6



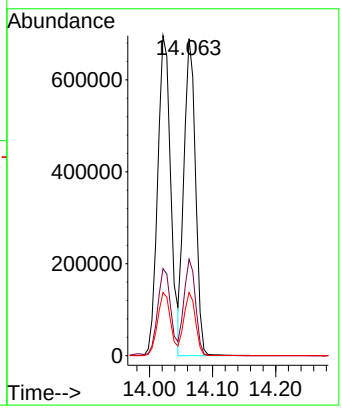


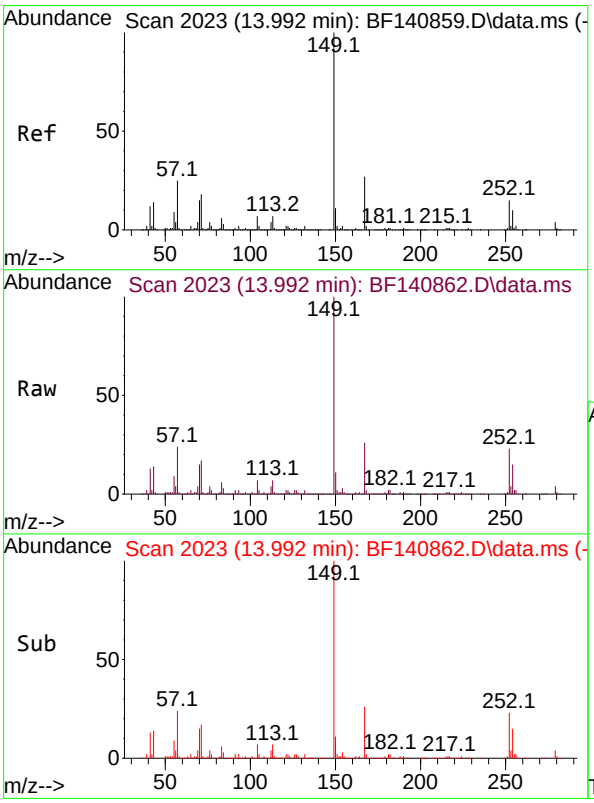
#83
Chrysene
Concen: 74.840 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 881398

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.1	36.1
229	20.0	16.0	24.0

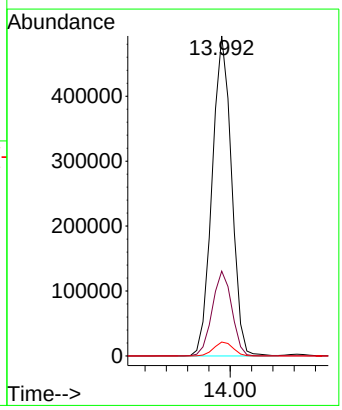


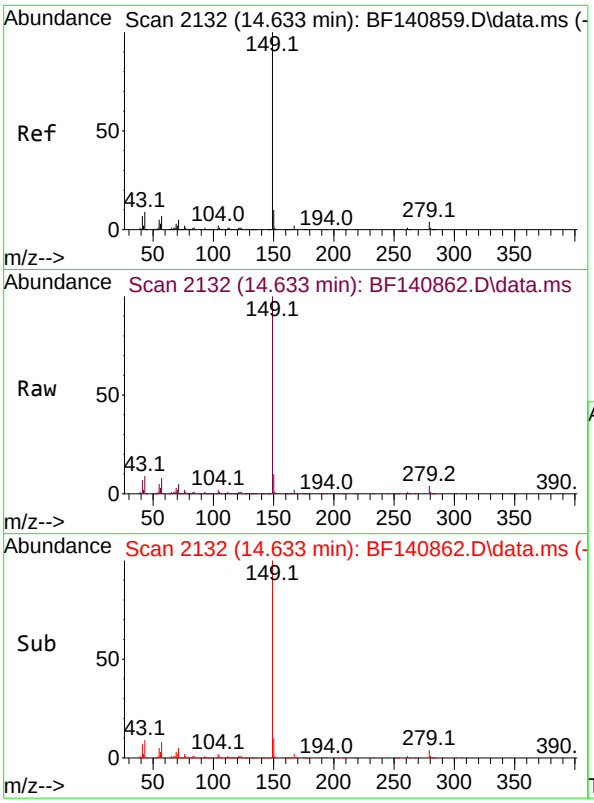


#84
Bis(2-ethylhexyl)phthalate
Concen: 81.032 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 624744

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.8	32.8
279	4.3	3.5	5.3



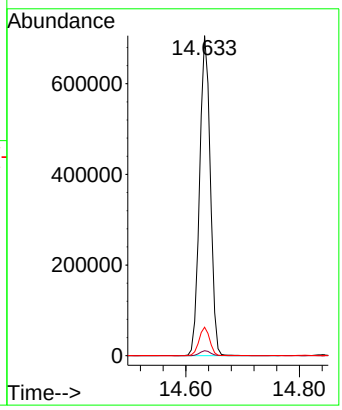


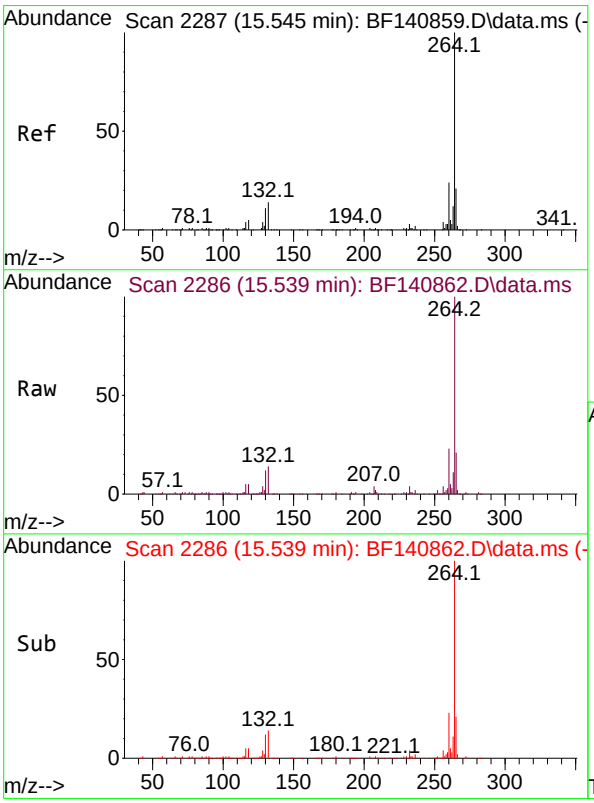
#85
Di-n-octyl phthalate
Concen: 79.125 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 922920

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.0	7.0	10.6

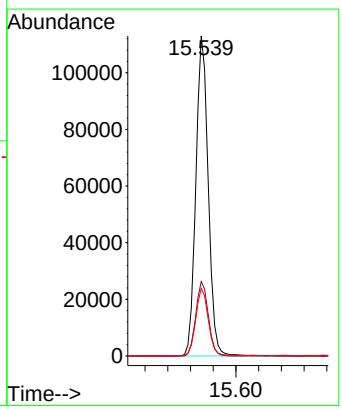


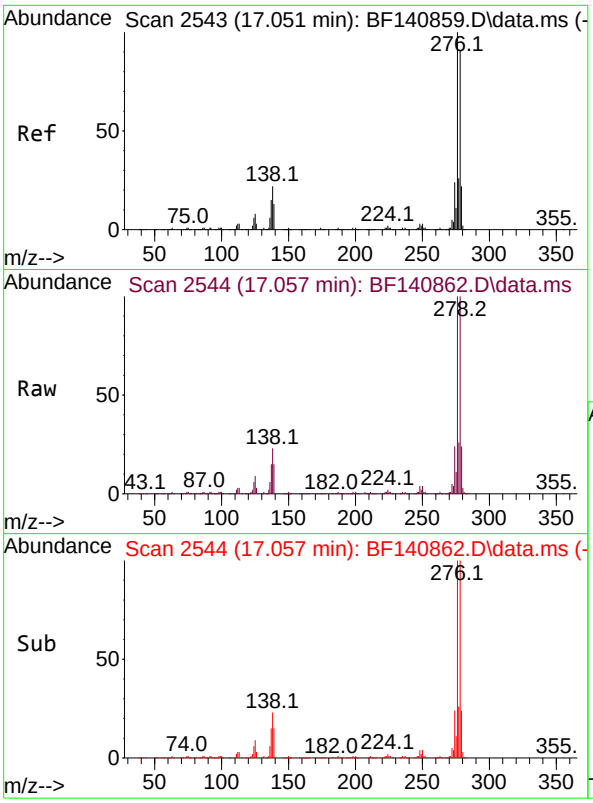


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:264 Resp: 171569

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.1	28.7
265	21.1	17.0	25.4



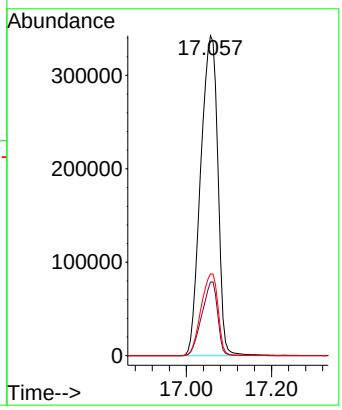


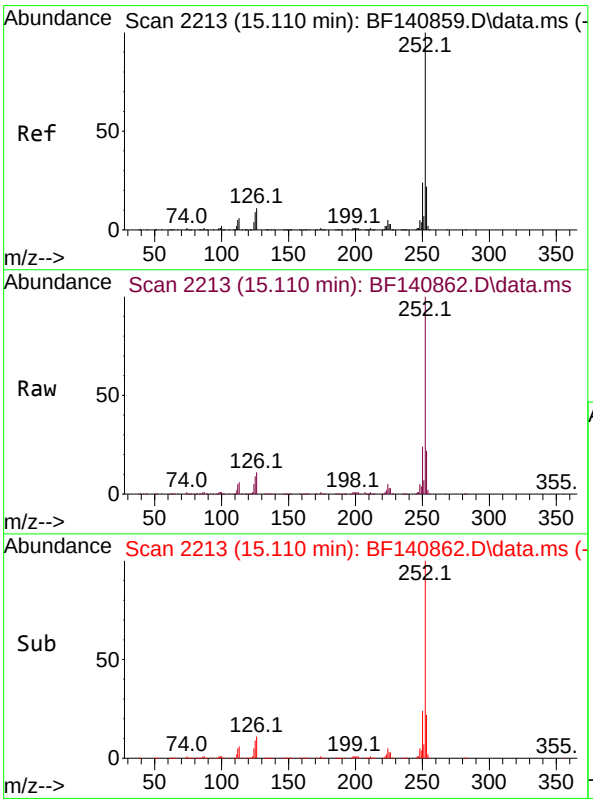
#87
Indeno(1,2,3-cd)pyrene
Concen: 89.400 ng
RT: 17.057 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 957167

Ion	Ratio	Lower	Upper
276	100		
138	21.2	16.9	25.3
277	25.2	20.2	30.4

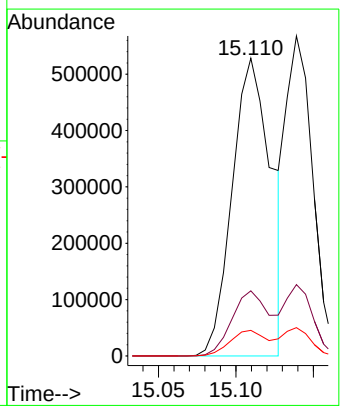


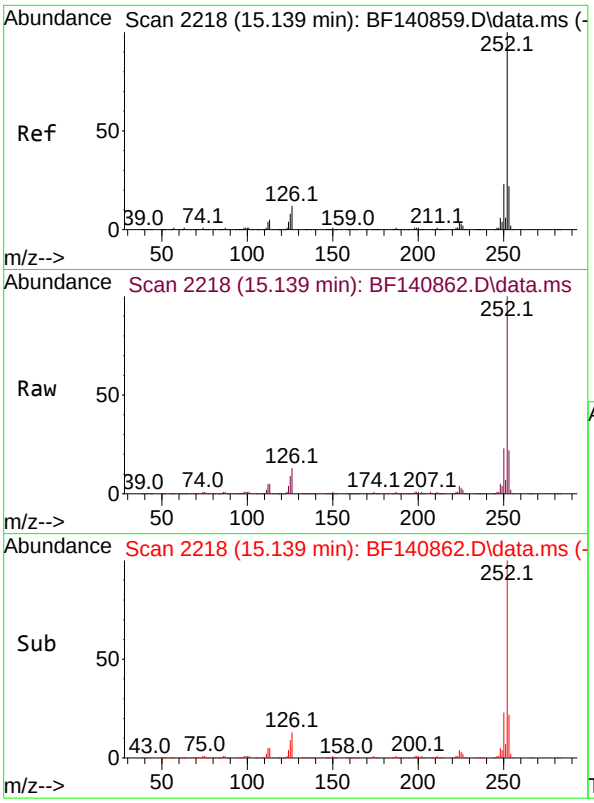


#88
Benzo(b)fluoranthene
Concen: 77.753 ng
RT: 15.110 min Scan# 2213
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:252 Resp: 925999

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.6	7.0	10.4



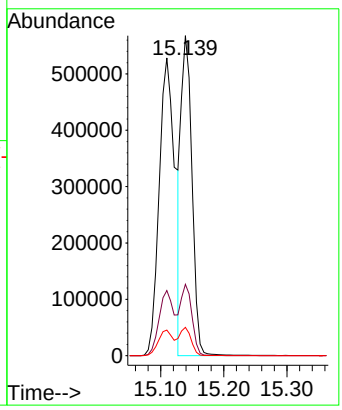


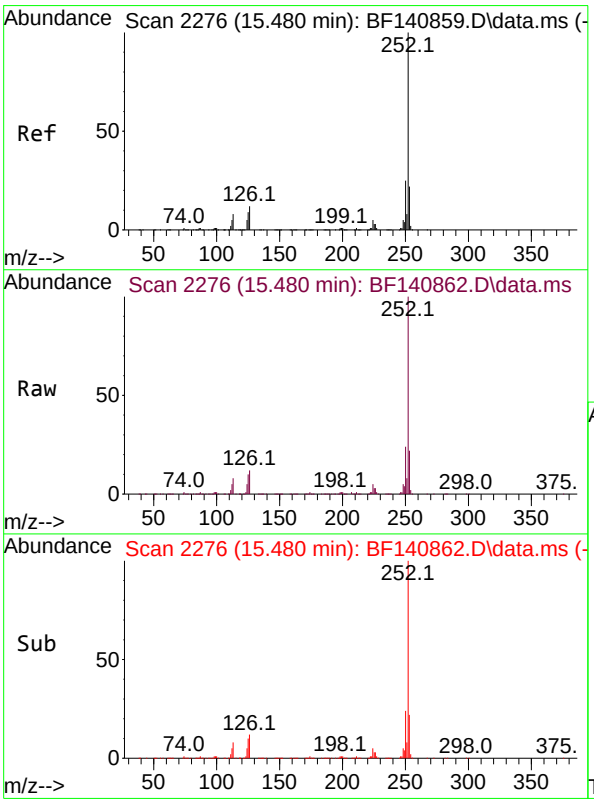
#89
Benzo(k)fluoranthene
Concen: 66.881 ng
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 683254

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	8.9	6.8	10.2

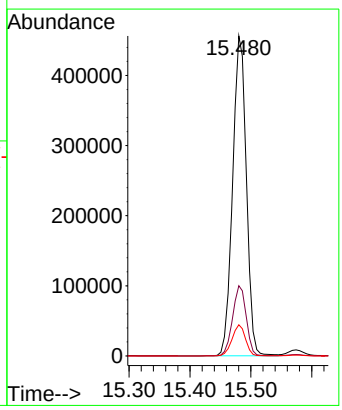


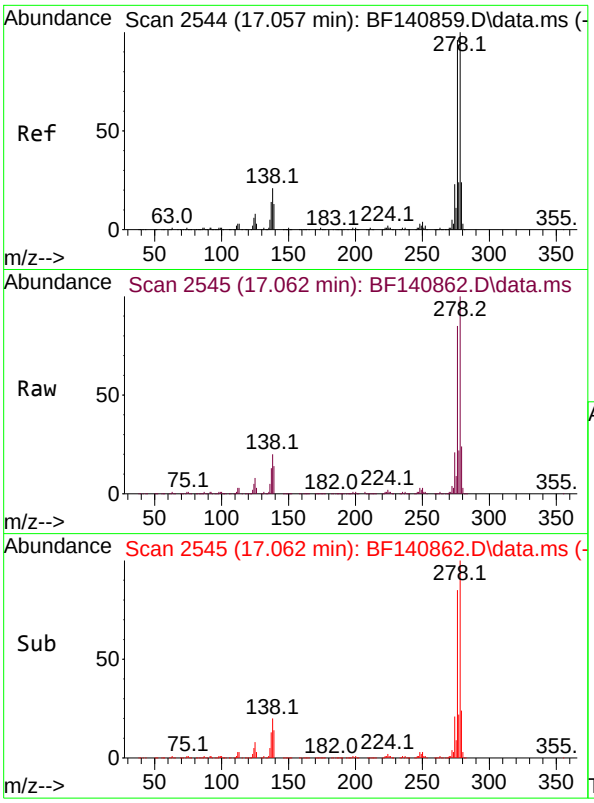


#90
Benzo(a)pyrene
Concen: 76.662 ng
RT: 15.480 min Scan# 2276
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:252 Resp: 714906

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.8	7.5	11.3



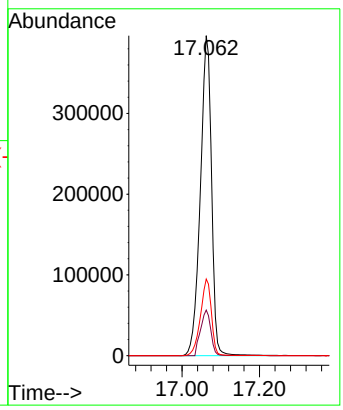


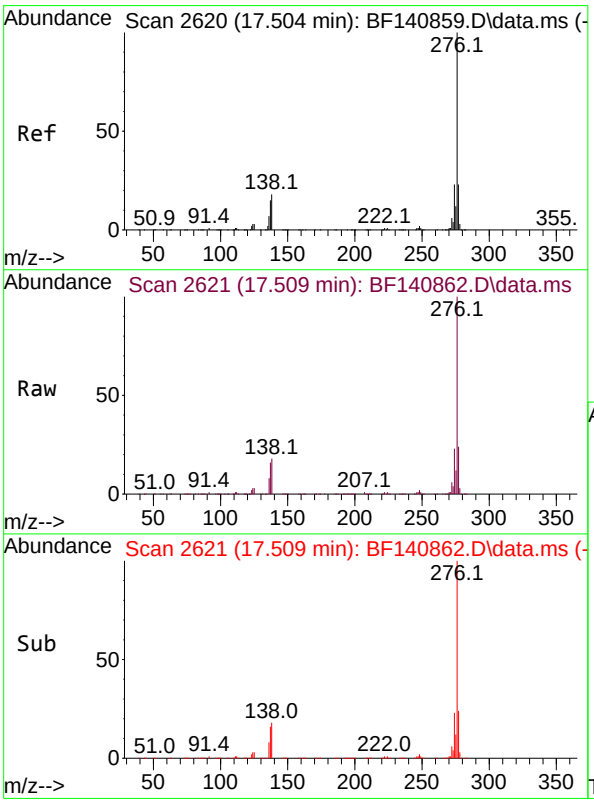
#91
Dibenzo(a,h)anthracene
Concen: 89.311 ng
RT: 17.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 792175

Ion	Ratio	Lower	Upper
278	100		
139	14.3	10.6	16.0
279	24.0	19.2	28.8

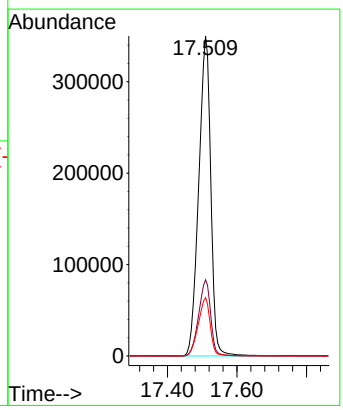




#92
Benzo(g,h,i)perylene
Concen: 93.101 ng
RT: 17.509 min Scan# 2621
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:276 Resp: 840468

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.7	28.1
138	18.2	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	88035	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	361248	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	202013	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	381984	20.000	ng	0.00
76) Chrysene-d12	14.021	240	236413	20.000	ng	-0.01
86) Perylene-d12	15.504	264	217277	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	407420	76.184	ng	0.00
7) Phenol-d6	6.498	99	539951	76.229	ng	0.00
23) Nitrobenzene-d5	7.416	82	544482	75.408	ng	0.00
42) 2,4,6-Tribromophenol	10.681	330	161969	67.791	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	1108356	75.432	ng	0.00
79) Terphenyl-d14	12.957	244	1126061	75.108	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.605	88	74540	32.360	ng	99
3) Pyridine	3.387	79	186082	34.882	ng	99
4) n-Nitrosodimethylamine	3.340	42	91392	33.984	ng	99
6) Aniline	6.516	93	240098	39.644	ng	96
8) 2-Chlorophenol	6.640	128	226045	38.761	ng	95
9) Benzaldehyde	6.404	77	158915	40.491	ng	99
10) Phenol	6.510	94	283984	38.683	ng	100
11) bis(2-Chloroethyl)ether	6.587	93	216280	39.504	ng	100
12) 1,3-Dichlorobenzene	6.787	146	259904	39.111	ng	99
13) 1,4-Dichlorobenzene	6.863	146	268094	39.745	ng	98
14) 1,2-Dichlorobenzene	7.022	146	251561	39.527	ng	98
15) Benzyl Alcohol	6.998	79	201477	39.782	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.122	45	264233	40.970	ng	97
17) 2-Methylphenol	7.116	107	187119	40.189	ng	99
18) Hexachloroethane	7.357	117	99360	39.568	ng	100
19) n-Nitroso-di-n-propyla...	7.263	70	169362	39.861	ng	100
20) 3+4-Methylphenols	7.269	107	246929	39.995	ng	98
22) Acetophenone	7.263	105	330166	36.536	ng	99
24) Nitrobenzene	7.434	77	279878	37.836	ng	99
25) Isophorone	7.675	82	462528	38.231	ng	100
26) 2-Nitrophenol	7.751	139	137663	40.407	ng	99
27) 2,4-Dimethylphenol	7.787	122	161001	40.466	ng	100
28) bis(2-Chloroethoxy)met...	7.875	93	304778	40.334	ng	98
29) 2,4-Dichlorophenol	7.998	162	217841	39.658	ng	100
30) 1,2,4-Trichlorobenzene	8.069	180	241375	38.332	ng	100
31) Naphthalene	8.151	128	763453	38.473	ng	99
32) Benzoic acid	7.939	122	159806	42.351	ng	99
33) 4-Chloroaniline	8.204	127	248138	37.650	ng	99
34) Hexachlorobutadiene	8.263	225	154475	36.462	ng	98
35) Caprolactam	8.587	113	59056	36.113	ng	99
36) 4-Chloro-3-methylphenol	8.698	107	219338	35.477	ng	100
37) 2-Methylnaphthalene	8.839	142	490114	37.337	ng	99
38) 1-Methylnaphthalene	8.939	142	479930	36.969	ng	100
40) 1,2,4,5-Tetrachloroben...	9.010	216	240096	38.668	ng	100
41) Hexachlorocyclopentadiene	8.986	237	53352	37.672	ng	98
43) 2,4,6-Trichlorophenol	9.128	196	149871	39.419	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

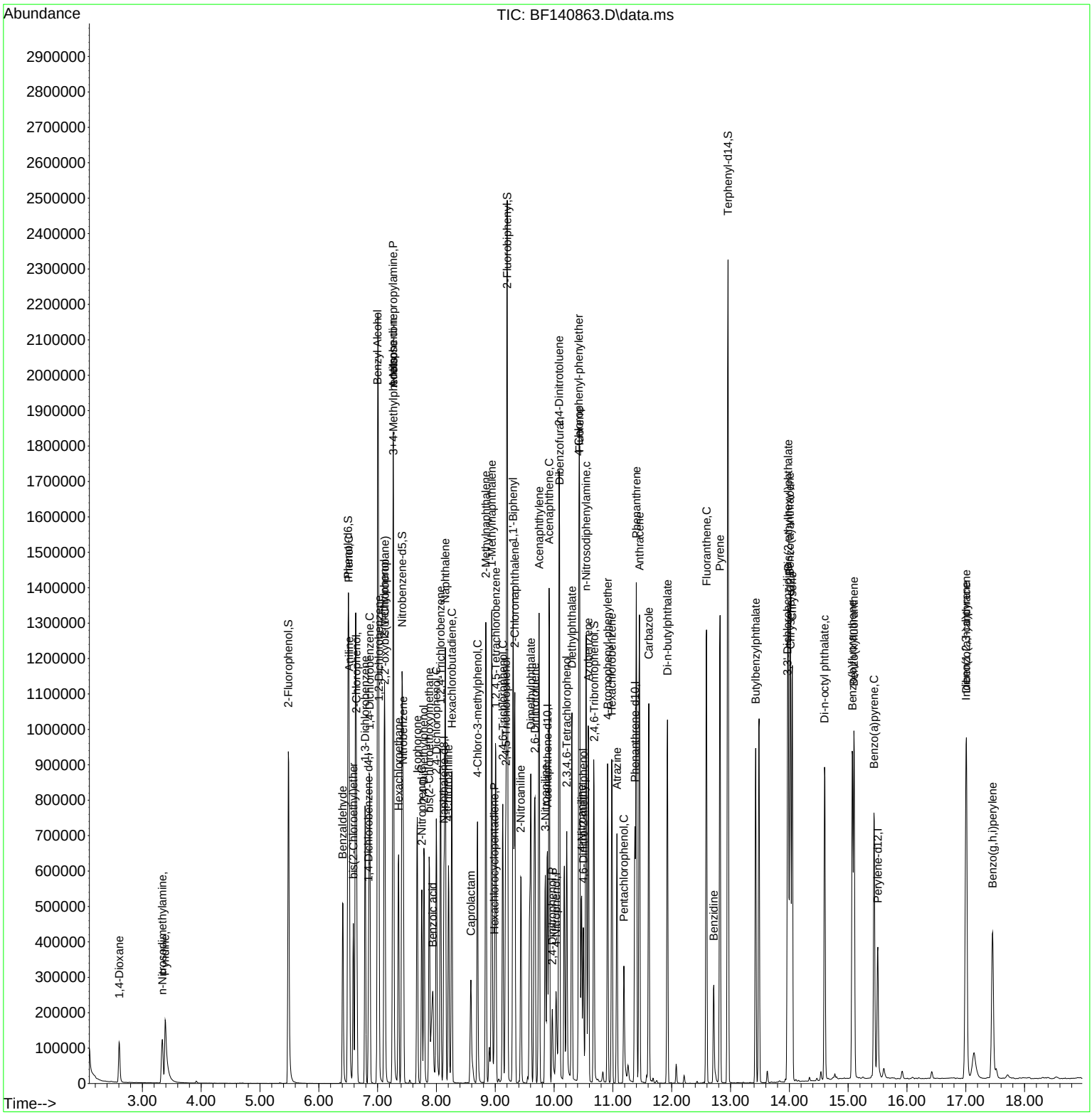
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	166716	39.895	ng	98
46) 1,1'-Biphenyl	9.304	154	617038	38.412	ng	99
47) 2-Chloronaphthalene	9.334	162	448814	36.522	ng	99
48) 2-Nitroaniline	9.434	65	140999	37.990	ng	99
49) Acenaphthylene	9.745	152	679962	37.651	ng	100
50) Dimethylphthalate	9.604	163	522757	36.704	ng	100
51) 2,6-Dinitrotoluene	9.675	165	122408	37.595	ng	97
52) Acenaphthene	9.916	154	441540	38.275	ng	99
53) 3-Nitroaniline	9.851	138	128348	39.722	ng	98
54) 2,4-Dinitrophenol	9.969	184	50562	35.766	ng	96
55) Dibenzofuran	10.092	168	663435	37.113	ng	100
56) 4-Nitrophenol	10.033	139	63289	38.834	ng	95
57) 2,4-Dinitrotoluene	10.086	165	163115	38.076	ng	99
58) Fluorene	10.433	166	551110	37.370	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.216	232	144396	42.405	ng	98
60) Diethylphthalate	10.304	149	560121	37.926	ng	100
61) 4-Chlorophenyl-phenyle...	10.422	204	277040	37.398	ng	98
62) 4-Nitroaniline	10.469	138	131388	38.912	ng	98
63) Azobenzene	10.581	77	536731	38.657	ng	99
65) 4,6-Dinitro-2-methylph...	10.498	198	90125	41.637	ng	97
66) n-Nitrosodiphenylamine	10.545	169	466366	39.710	ng	99
67) 4-Bromophenyl-phenylether	10.910	248	155245	36.329	ng	99
68) Hexachlorobenzene	10.980	284	179906	37.132	ng	96
69) Atrazine	11.069	200	120830	36.838	ng	98
70) Pentachlorophenol	11.186	266	68516	38.679	ng	97
71) Phenanthrene	11.398	178	747974	38.078	ng	99
72) Anthracene	11.451	178	729685	37.720	ng	99
73) Carbazole	11.610	167	613711	32.390	ng	99
74) Di-n-butylphthalate	11.927	149	751217	33.782	ng	100
75) Fluoranthene	12.592	202	772859	34.163	ng	99
77) Benzidine	12.716	184	176802	36.642	ng	99
78) Pyrene	12.822	202	792874	37.714	ng	99
80) Butylbenzylphthalate	13.427	149	307036	39.692	ng	99
81) Benzo(a)anthracene	14.010	228	679017	40.525	ng	100
82) 3,3'-Dichlorobenzidine	13.969	252	194418	38.459	ng	100
83) Chrysene	14.051	228	574336	37.695	ng	99
84) Bis(2-ethylhexyl)phtha...	13.980	149	408768	40.982	ng	99
85) Di-n-octyl phthalate	14.598	149	617289	40.907	ng	100
87) Indeno(1,2,3-cd)pyrene	17.004	276	539135	39.762	ng	99
88) Benzo(b)fluoranthene	15.074	252	609480	40.410	ng	100
89) Benzo(k)fluoranthene	15.098	252	525272	40.601	ng	99
90) Benzo(a)pyrene	15.439	252	470896	39.873	ng	99
91) Dibenzo(a,h)anthracene	17.009	278	451973	40.237	ng	98
92) Benzo(g,h,i)perylene	17.457	276	418030	36.565	ng	100

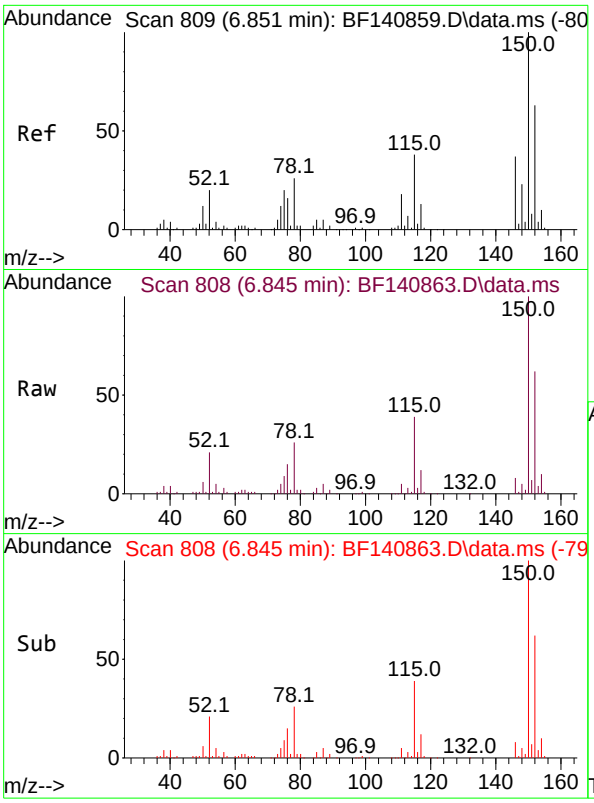
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



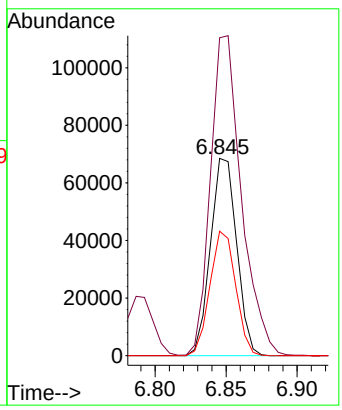


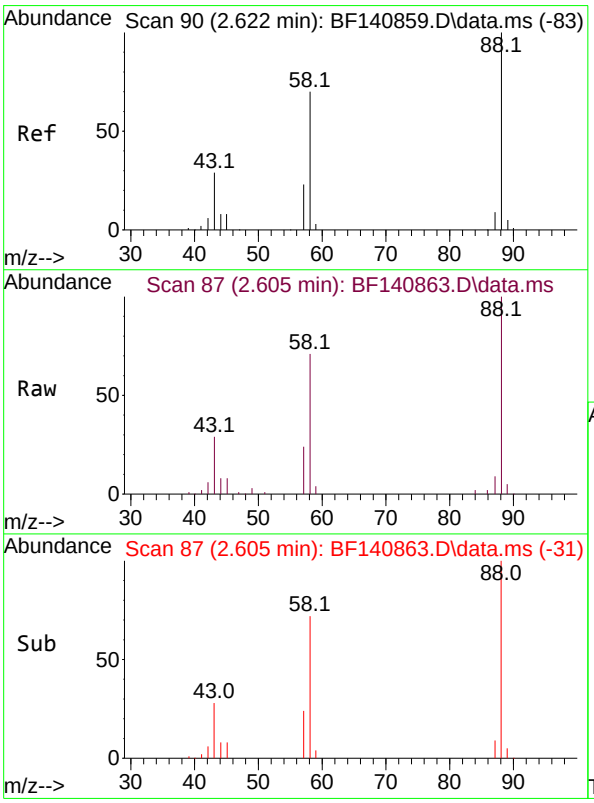
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:152 Resp: 88035

Ion	Ratio	Lower	Upper
152	100		
150	161.2	127.9	191.9
115	63.1	48.0	72.0

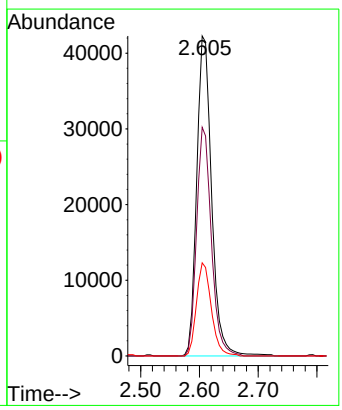


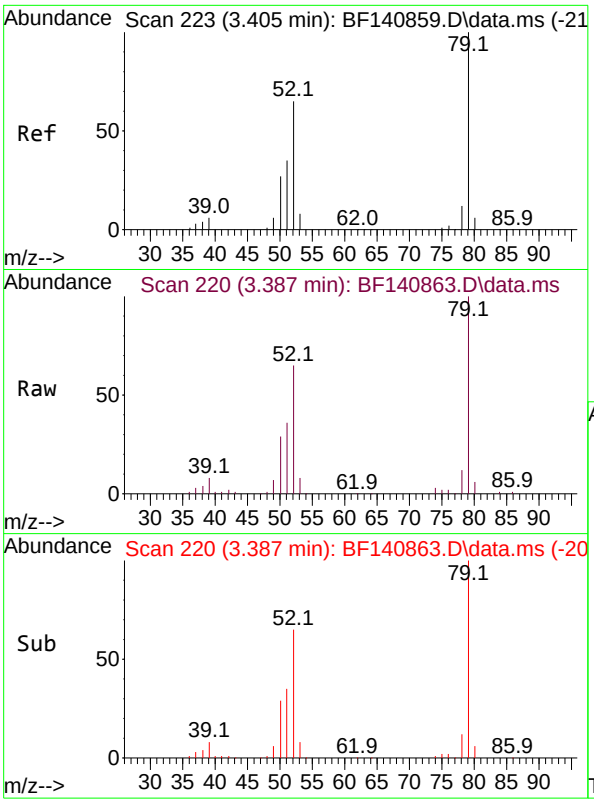


#2
1,4-Dioxane
Concen: 32.360 ng
RT: 2.605 min Scan# 87
Delta R.T. -0.018 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 88 Resp: 74540

Ion	Ratio	Lower	Upper
88	100		
58	70.6	55.8	83.8
43	29.0	22.7	34.1



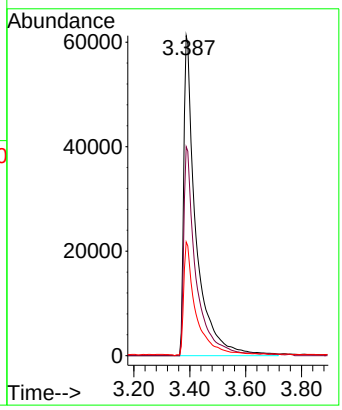


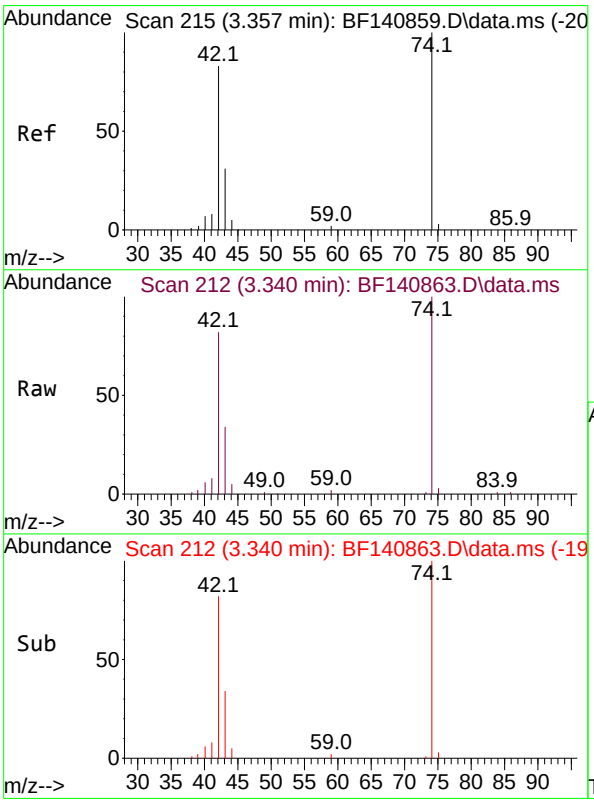
#3
Pyridine
Concen: 34.882 ng
RT: 3.387 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 79 Resp: 186082

Ion	Ratio	Lower	Upper
79	100		
52	65.3	51.7	77.5
51	35.5	28.2	42.4

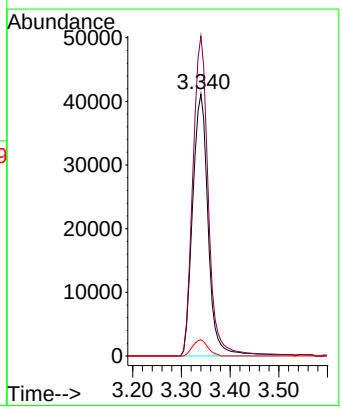


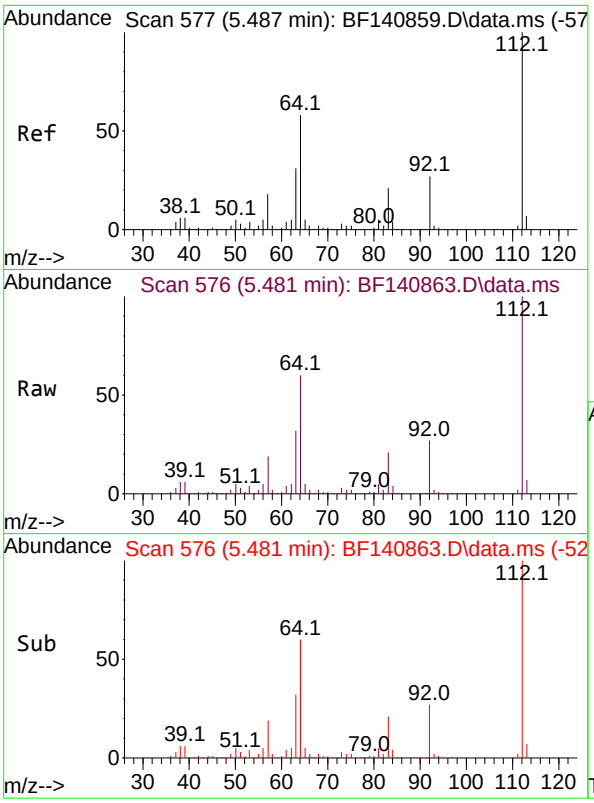


#4
n-Nitrosodimethylamine
Concen: 33.984 ng
RT: 3.340 min Scan# 212
Delta R.T. -0.018 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 42 Resp: 91392

Ion	Ratio	Lower	Upper
42	100		
74	122.2	96.9	145.3
44	6.2	4.4	6.6



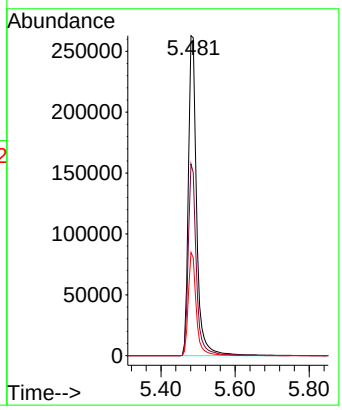


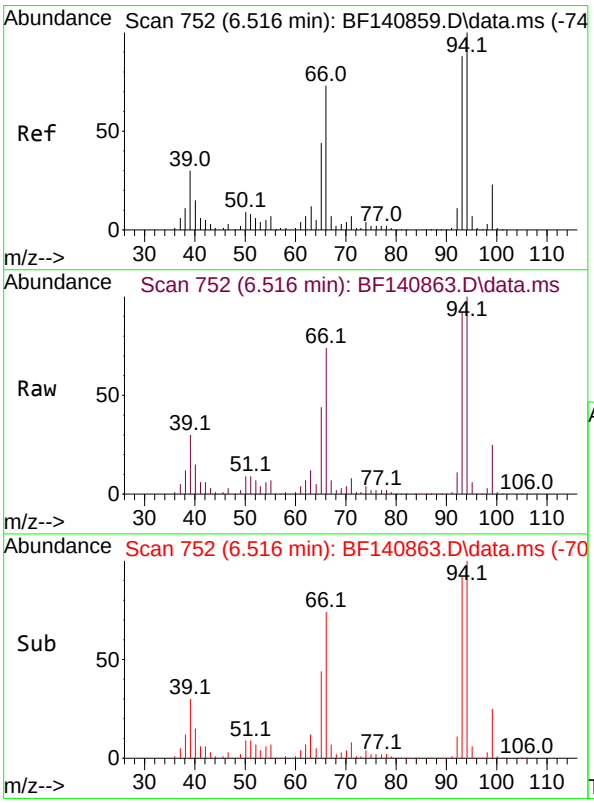
#5
2-Fluorophenol
Concen: 76.184 ng
RT: 5.481 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:112 Resp: 407420

Ion	Ratio	Lower	Upper
112	100		
64	59.9	46.1	69.1
63	32.2	24.9	37.3

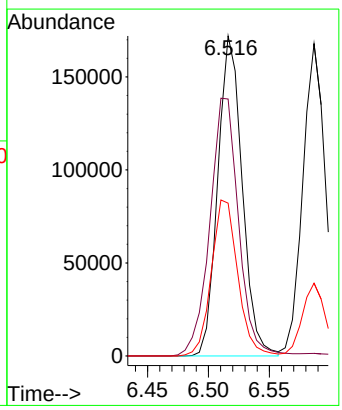


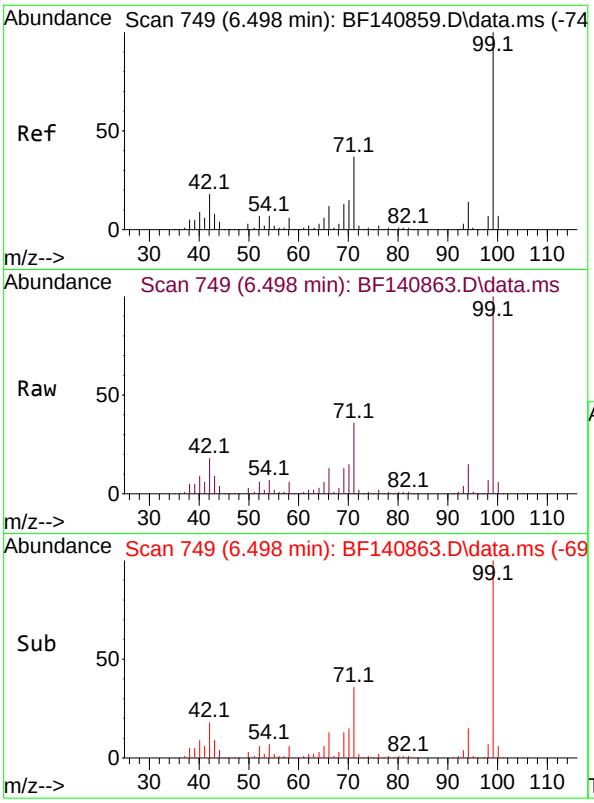


#6
Aniline
Concen: 39.644 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 93 Resp: 240098

Ion	Ratio	Lower	Upper
93	100		
66	80.3	67.0	100.4
65	47.8	40.4	60.6



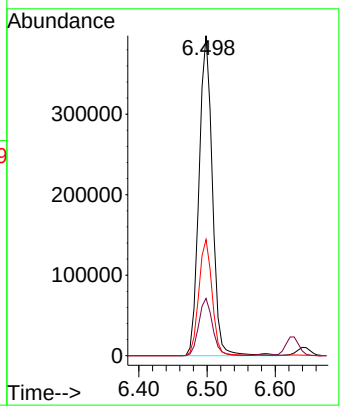


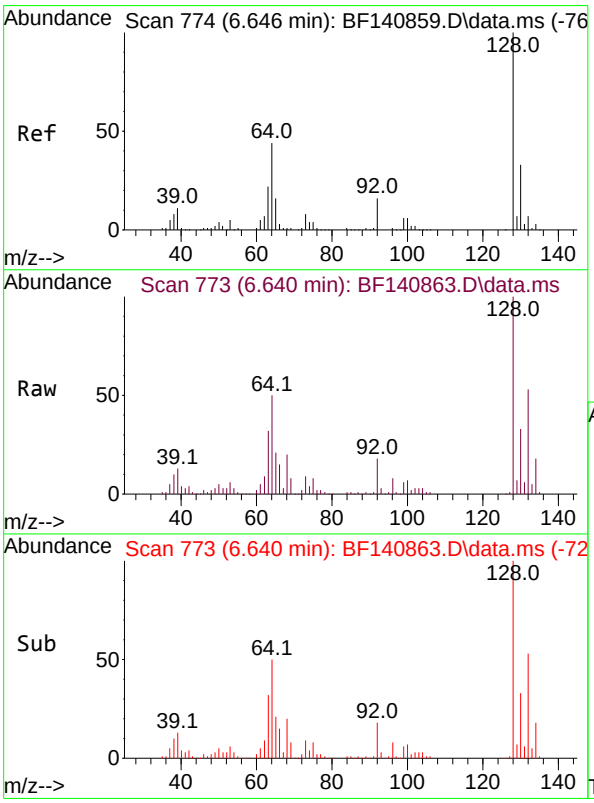
#7
Phenol-d6
Concen: 76.229 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 99 Resp: 539951

Ion	Ratio	Lower	Upper
99	100		
42	17.9	14.3	21.5
71	36.3	29.9	44.9

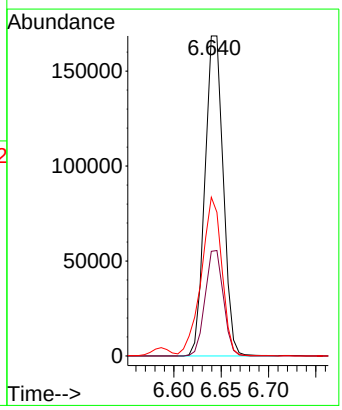


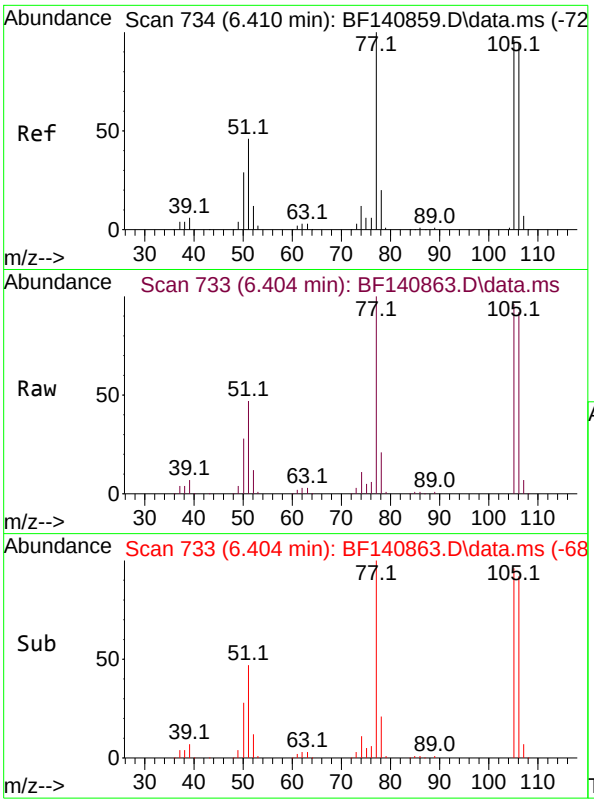


#8
2-Chlorophenol
Concen: 38.761 ng
RT: 6.640 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:128 Resp: 226045

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.9	52.9
64	49.6	24.3	64.3



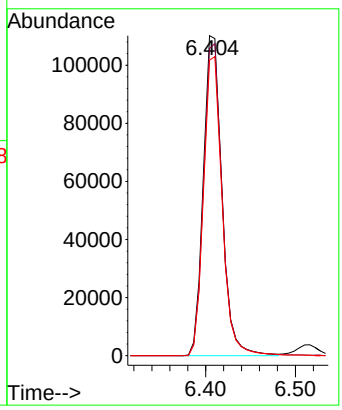


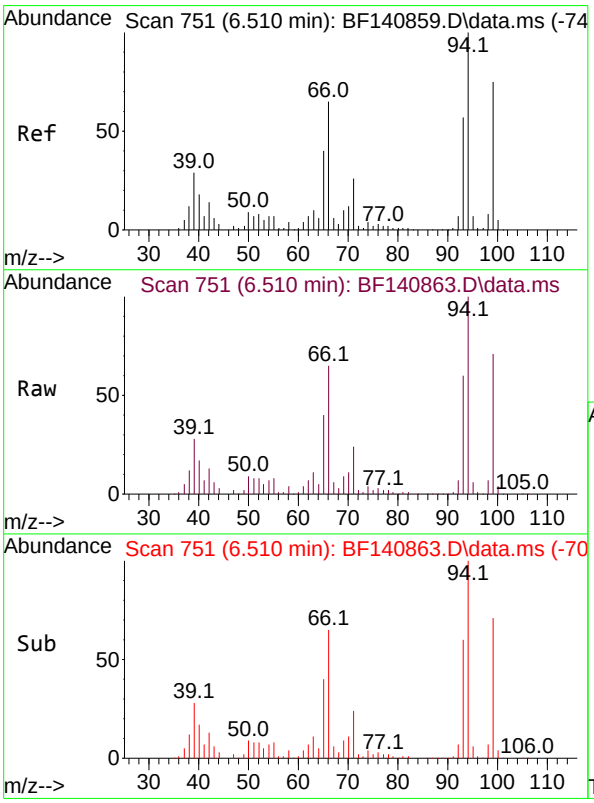
#9
Benzaldehyde
Concen: 40.491 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 77 Resp: 158915

Ion	Ratio	Lower	Upper
77	100		
105	96.0	75.8	115.8
106	92.4	74.1	114.1

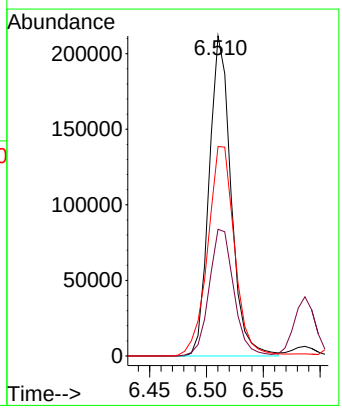


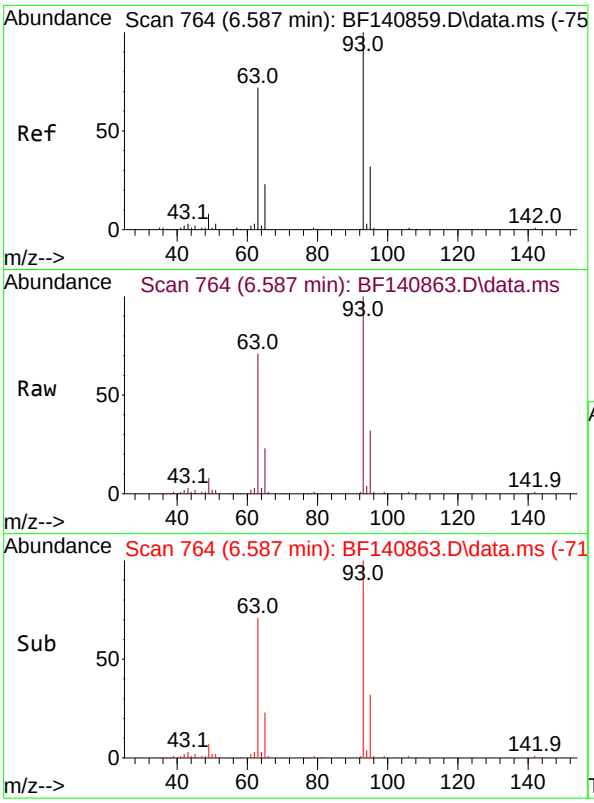


#10
Phenol
Concen: 38.683 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 94 Resp: 283984

Ion	Ratio	Lower	Upper
94	100		
65	39.6	19.9	59.9
66	65.4	45.6	85.6



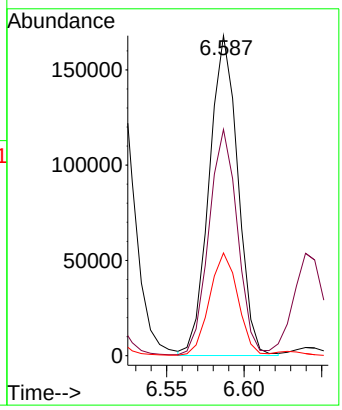


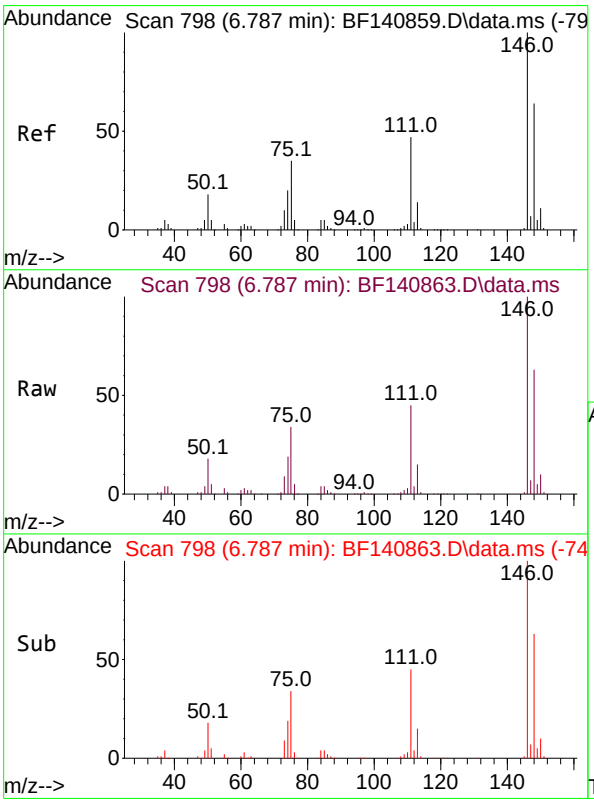
#11
bis(2-Chloroethyl)ether
Concen: 39.504 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 93 Resp: 216280

Ion	Ratio	Lower	Upper
93	100		
63	70.7	51.0	91.0
95	32.1	12.0	52.0

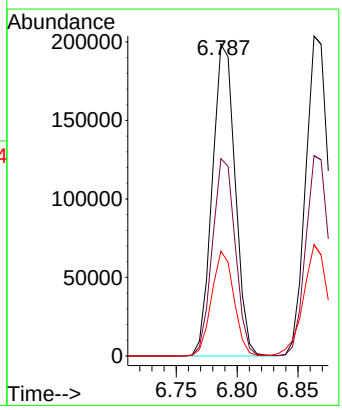


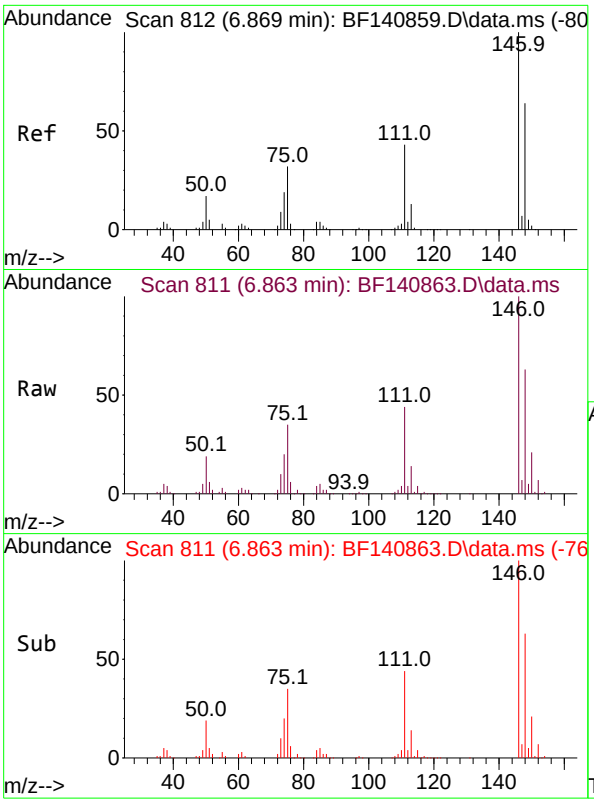


#12
1,3-Dichlorobenzene
Concen: 39.111 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:146 Resp: 259904

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.0	76.6
75	33.6	28.1	42.1



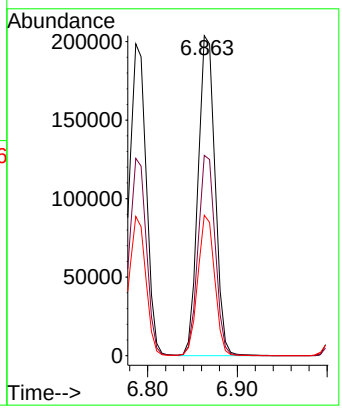


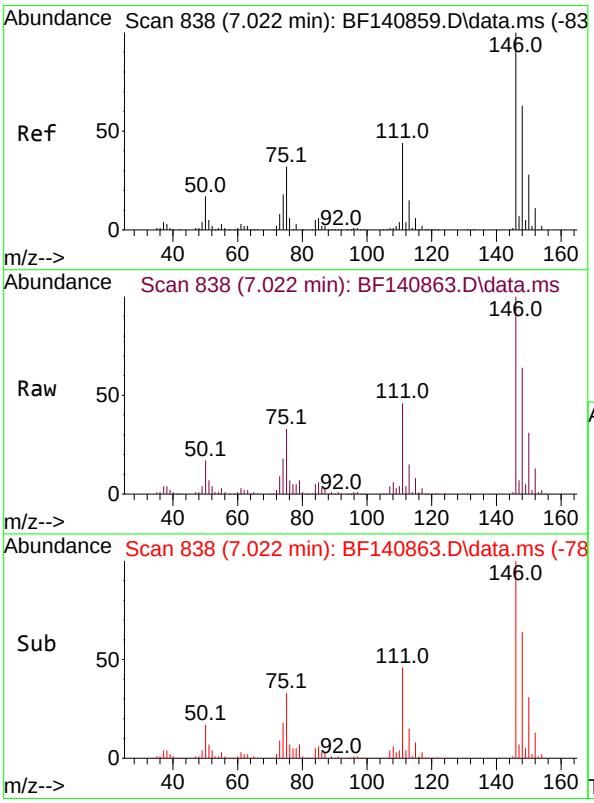
#13
1,4-Dichlorobenzene
Concen: 39.745 ng
RT: 6.863 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:146 Resp: 268094

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.3	76.9
111	43.9	34.4	51.6

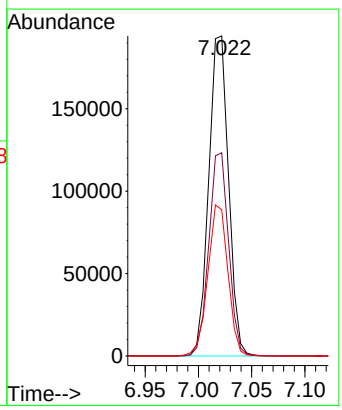


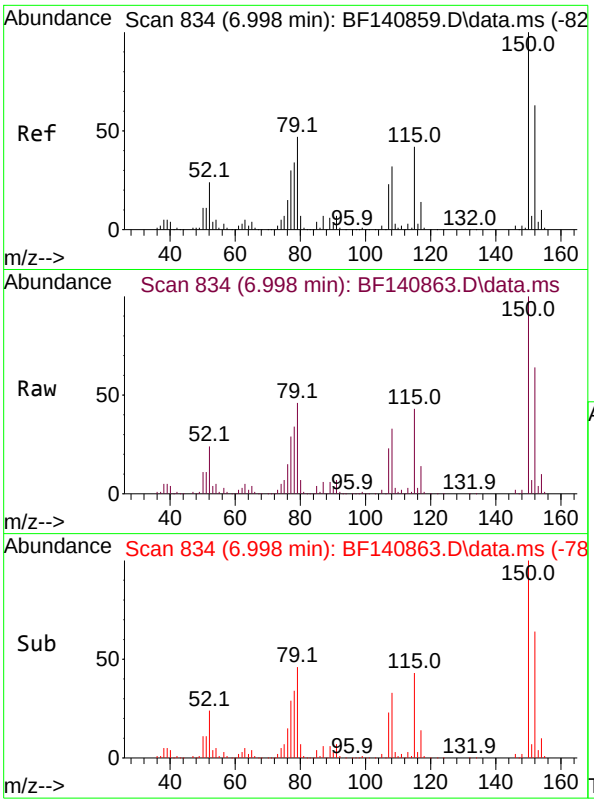


#14
1,2-Dichlorobenzene
Concen: 39.527 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:146 Resp: 251561

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.0	75.0
111	45.7	35.6	53.4



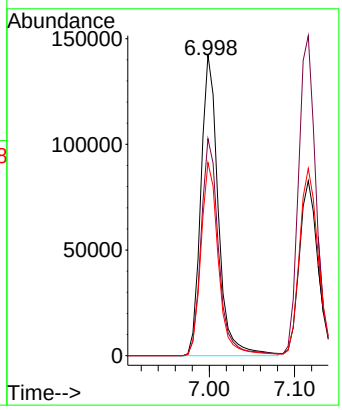


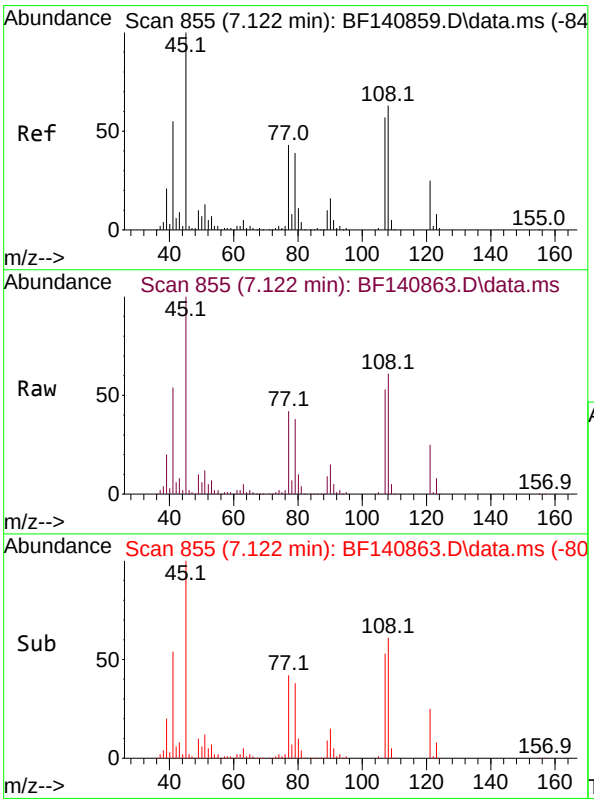
#15
Benzyl Alcohol
Concen: 39.782 ng
RT: 6.998 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 79 Resp: 201477

Ion	Ratio	Lower	Upper
79	100		
108	72.1	55.1	82.7
77	64.2	50.6	76.0

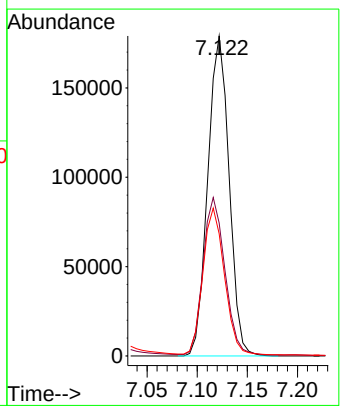


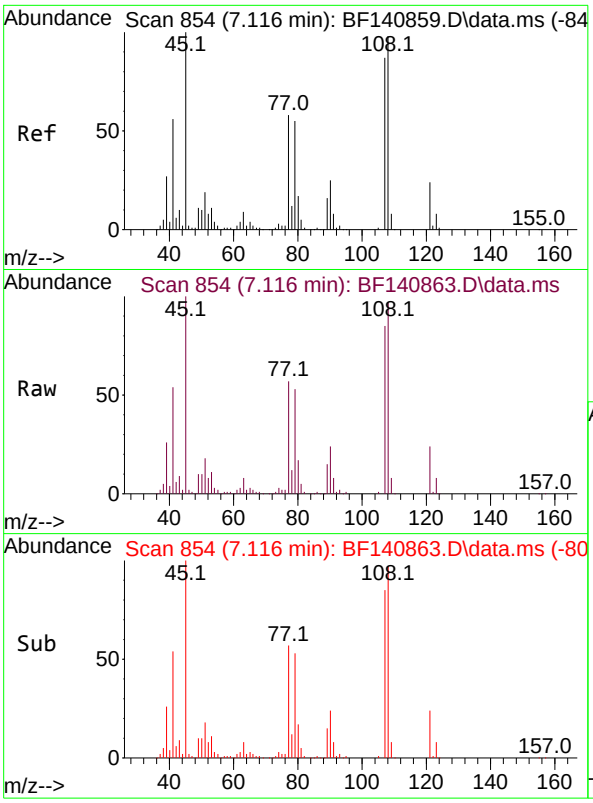


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.970 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 45 Resp: 264233

Ion	Ratio	Lower	Upper
45	100		
77	41.6	23.3	63.3
79	38.2	20.0	60.0



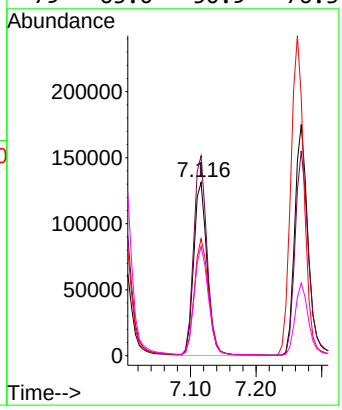


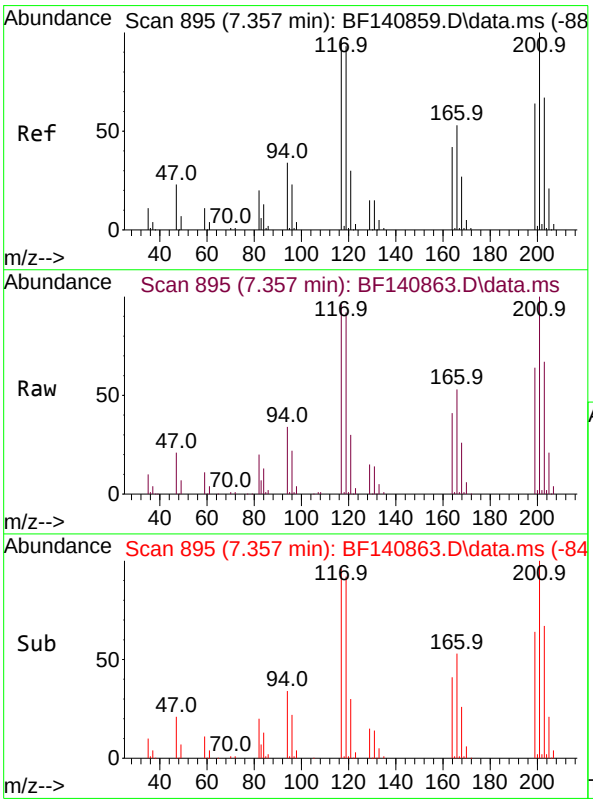
#17
2-Methylphenol
Concen: 40.189 ng
RT: 7.116 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:107 Resp: 187119

Ion	Ratio	Lower	Upper
107	100		
108	115.3	90.2	135.4
77	67.5	53.8	80.6
79	63.0	50.9	76.3

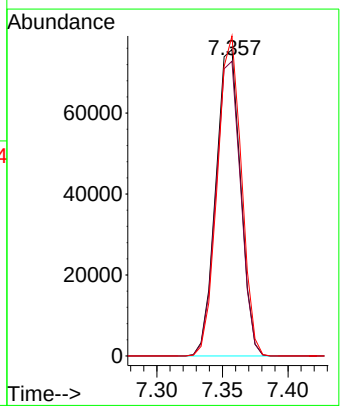


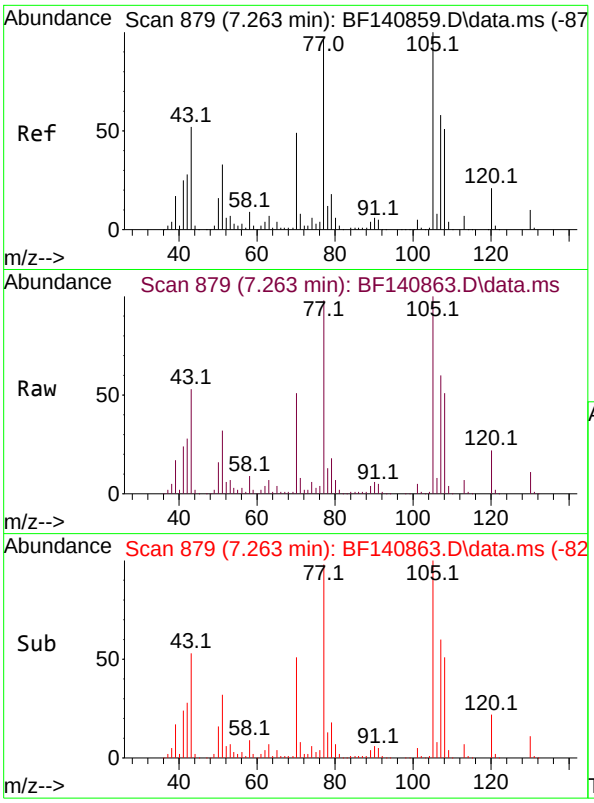


#18
Hexachloroethane
Concen: 39.568 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:117 Resp: 99360

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.4	116.0
201	104.5	83.4	125.0



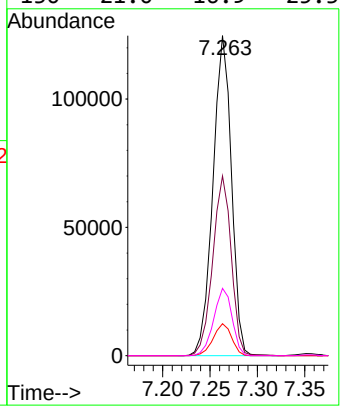


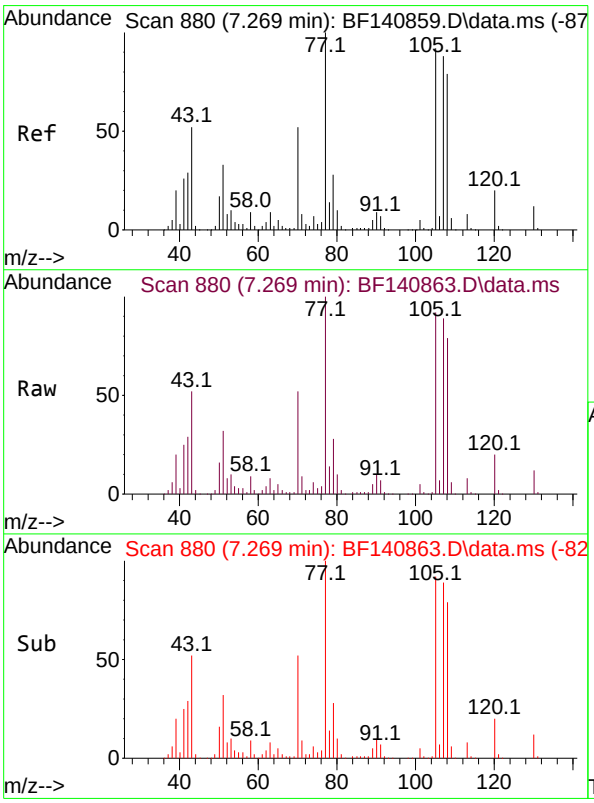
#19
n-Nitroso-di-n-propylamine
Concen: 39.861 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 70 Resp: 169362

Ion	Ratio	Lower	Upper
70	100		
42	56.2	45.3	67.9
101	10.0	8.0	12.0
130	21.0	16.9	25.3

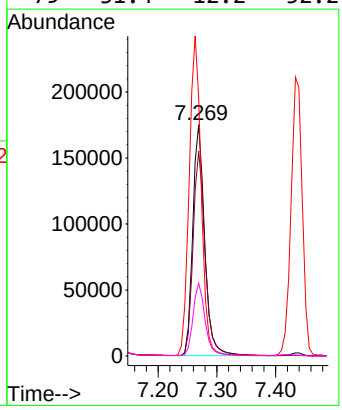


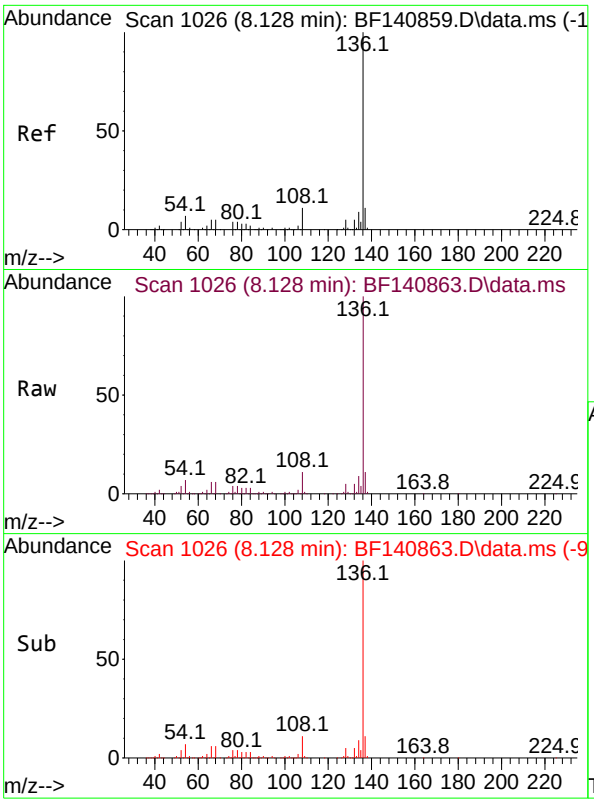


#20
3+4-Methylphenols
Concen: 39.995 ng
RT: 7.269 min Scan# 880
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:107 Resp: 246929

Ion	Ratio	Lower	Upper
107	100		
108	88.6	70.1	110.1
77	111.9	94.4	134.4
79	31.4	12.2	52.2



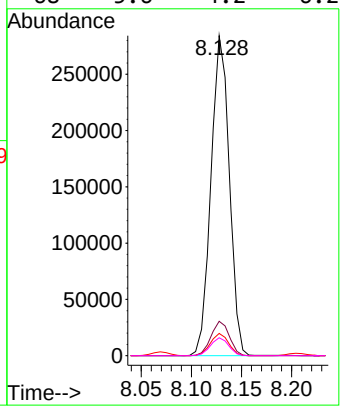


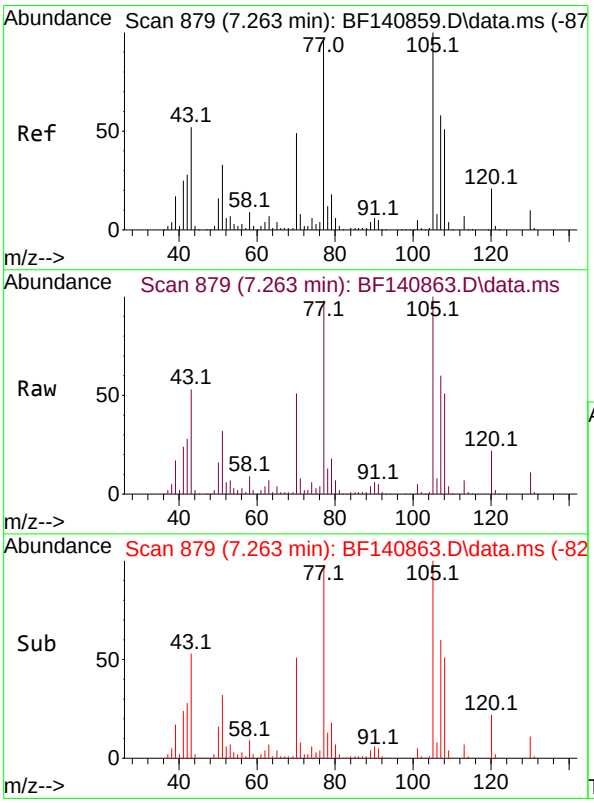
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:136 Resp: 361248

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	7.0	5.6	8.4
68	5.6	4.2	6.2

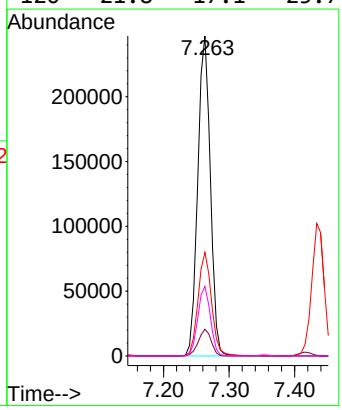


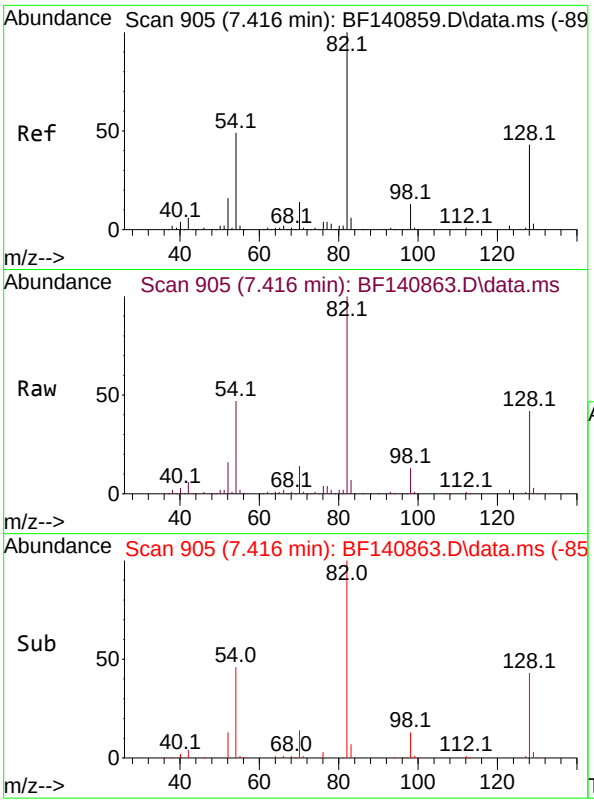


#22
Acetophenone
Concen: 36.536 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:105 Resp: 330166

Ion	Ratio	Lower	Upper
105	100		
71	8.4	6.2	9.4
51	32.3	26.3	39.5
120	21.8	17.1	25.7



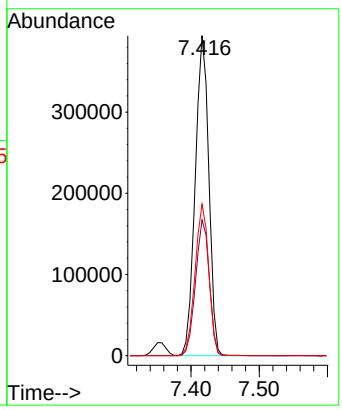


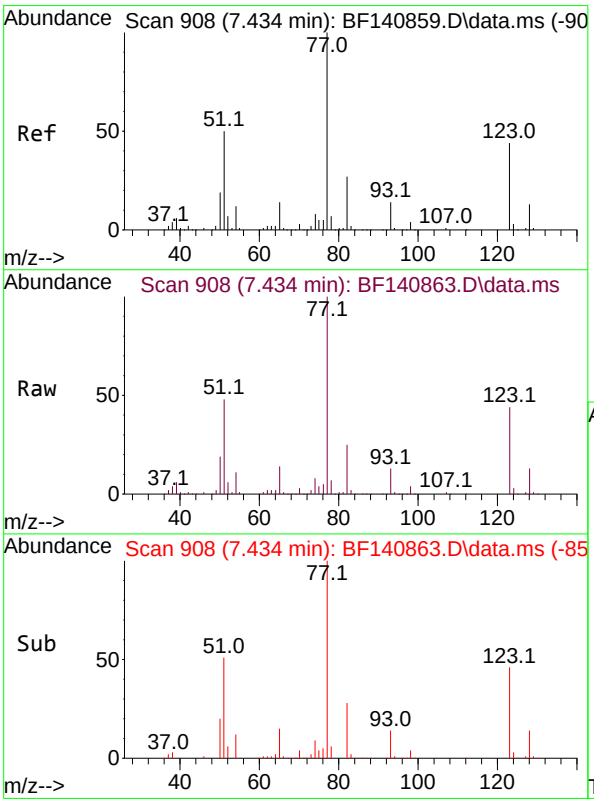
#23
Nitrobenzene-d5
Concen: 75.408 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 82 Resp: 544482

Ion	Ratio	Lower	Upper
82	100		
128	42.4	34.4	51.6
54	47.4	38.8	58.2

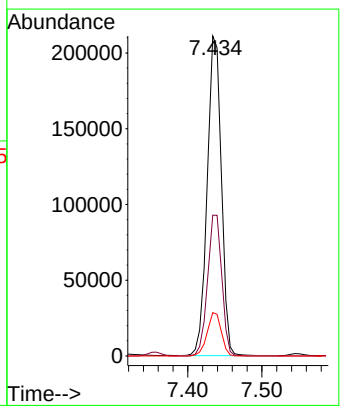


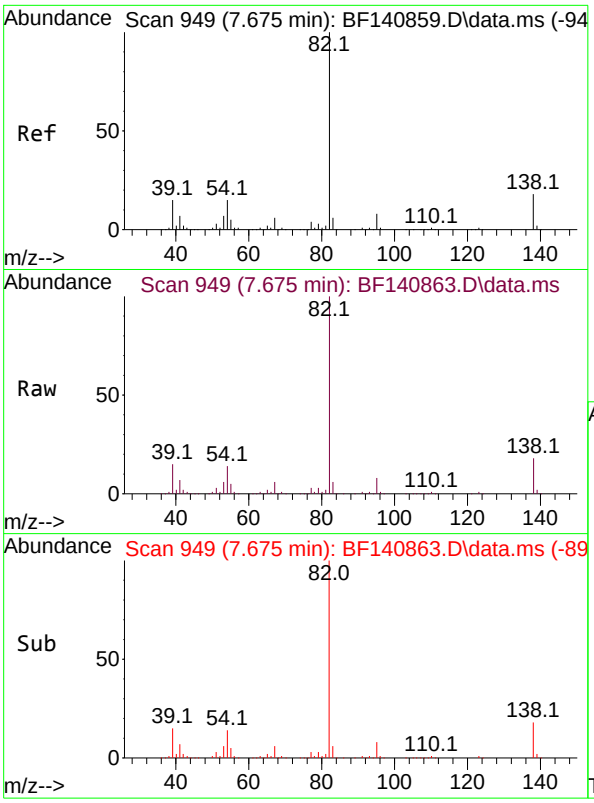


#24
Nitrobenzene
Concen: 37.836 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 77 Resp: 279878

Ion	Ratio	Lower	Upper
77	100		
123	44.0	35.0	52.4
65	13.6	11.4	17.0



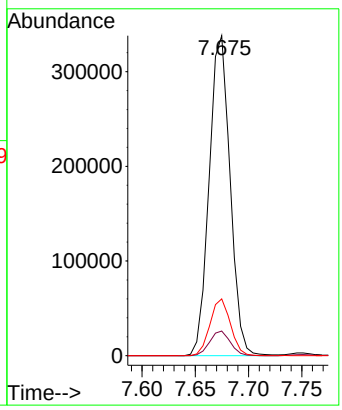


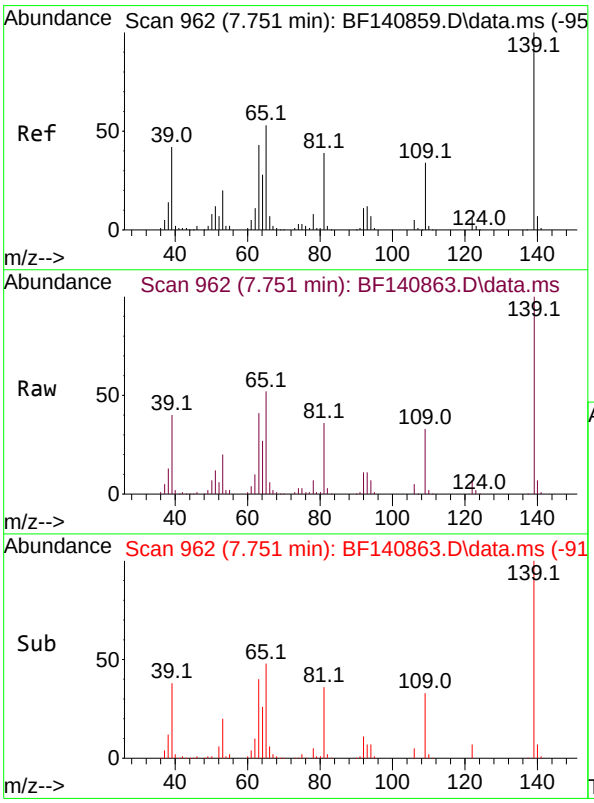
#25
Isophorone
Concen: 38.231 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 82 Resp: 462528

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.3	9.5
138	17.8	14.1	21.1

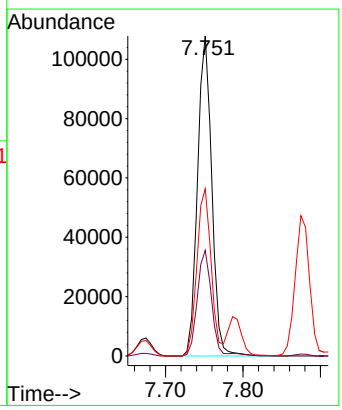


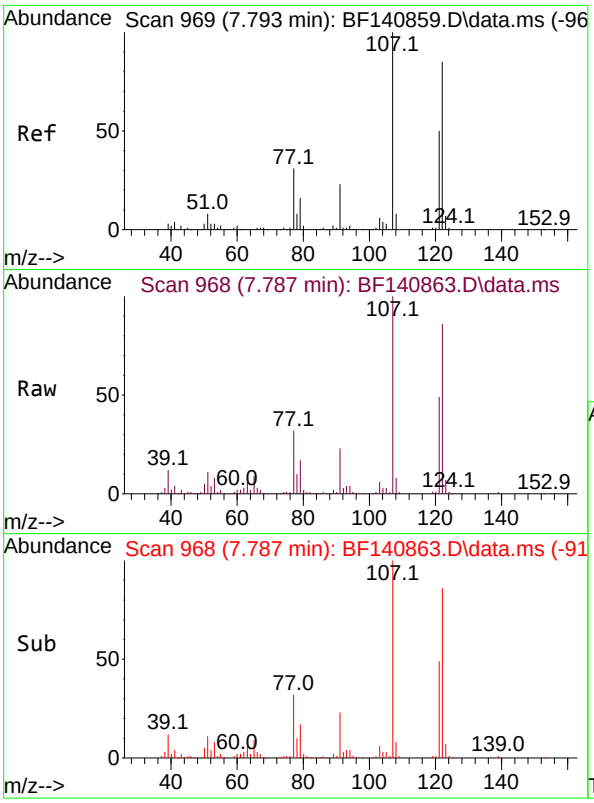


#26
2-Nitrophenol
Concen: 40.407 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:139 Resp: 137663

Ion	Ratio	Lower	Upper
139	100		
109	33.0	26.9	40.3
65	52.2	42.6	64.0



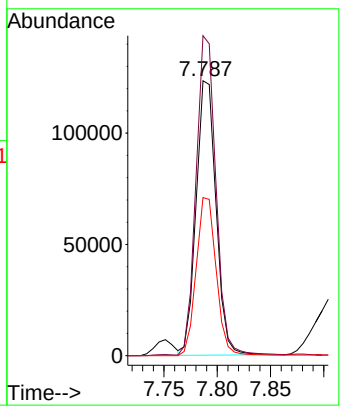


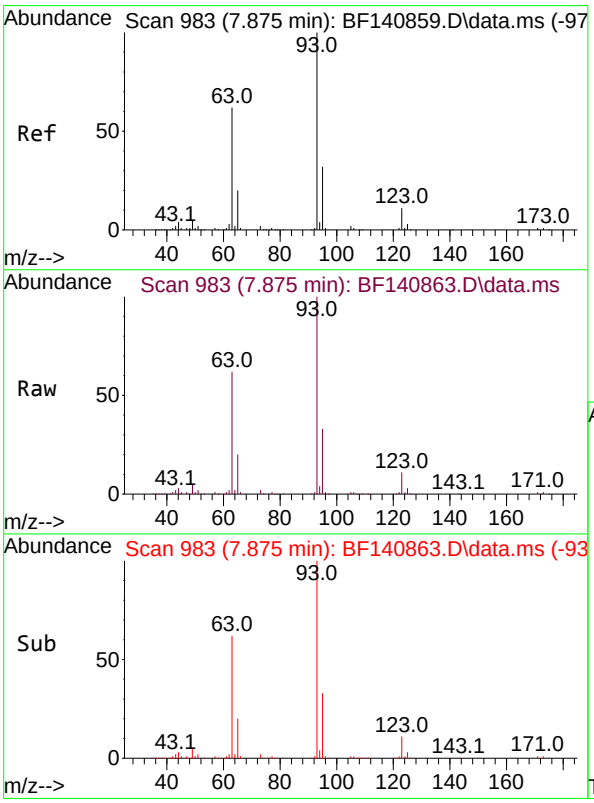
#27
2,4-Dimethylphenol
Concen: 40.466 ng
RT: 7.787 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:122 Resp: 161001

Ion	Ratio	Lower	Upper
122	100		
107	116.4	92.6	139.0
121	57.5	45.8	68.8

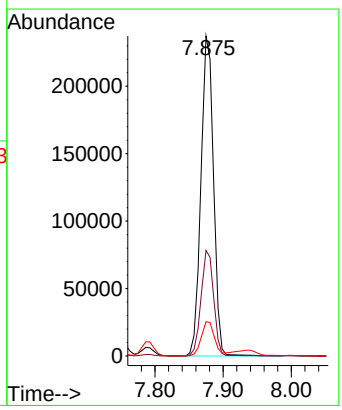


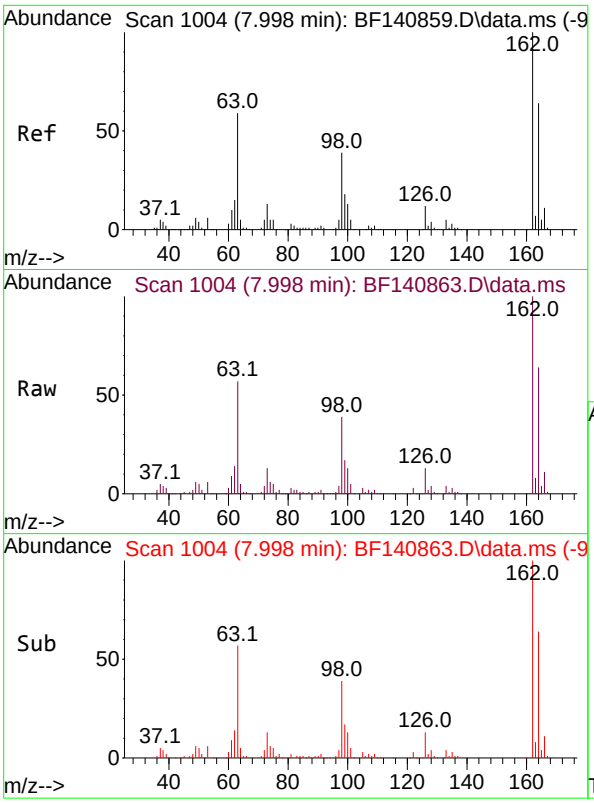


#28
bis(2-Chloroethoxy)methane
Concen: 40.334 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 93 Resp: 304778

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.3	37.9
123	10.7	8.6	13.0



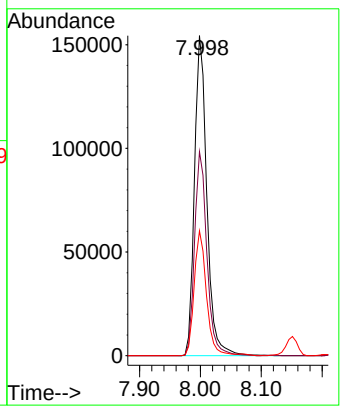


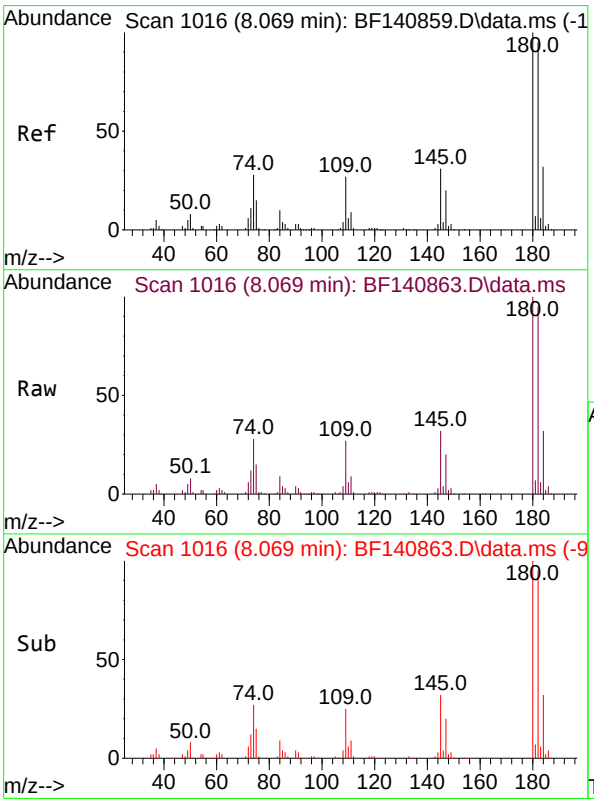
#29
2,4-Dichlorophenol
Concen: 39.658 ng
RT: 7.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:162 Resp: 217841

Ion	Ratio	Lower	Upper
162	100		
164	63.8	43.7	83.7
98	39.0	18.6	58.6

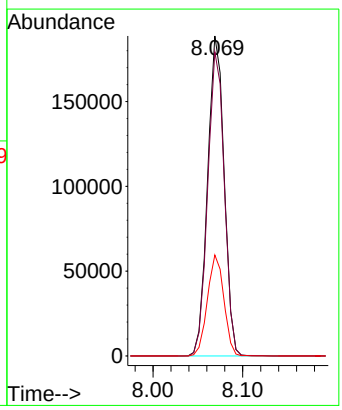


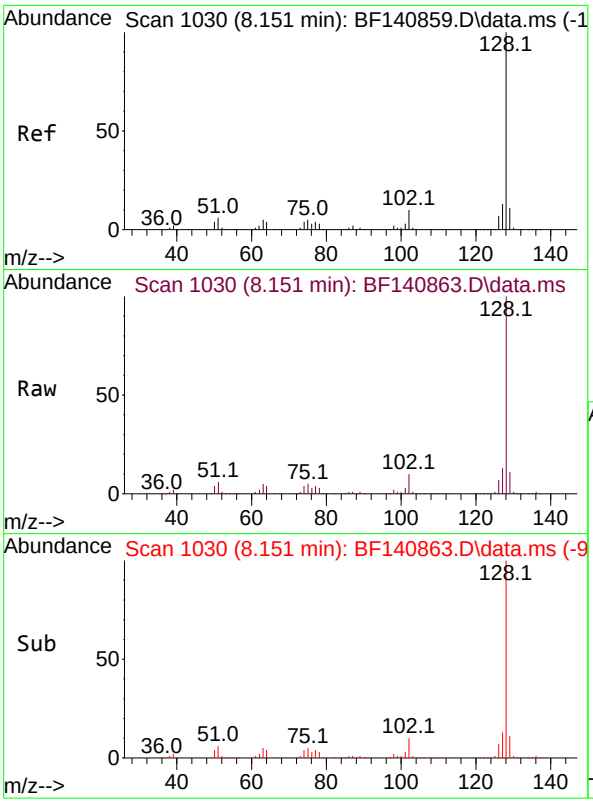


#30
1,2,4-Trichlorobenzene
Concen: 38.332 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:180 Resp: 241375

Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.8	113.6
145	31.6	25.2	37.8



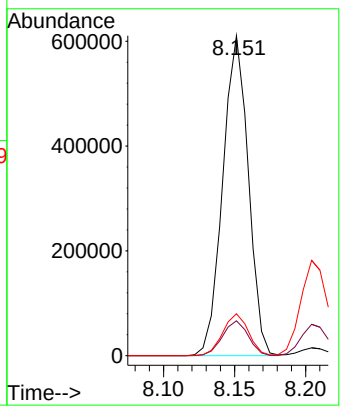


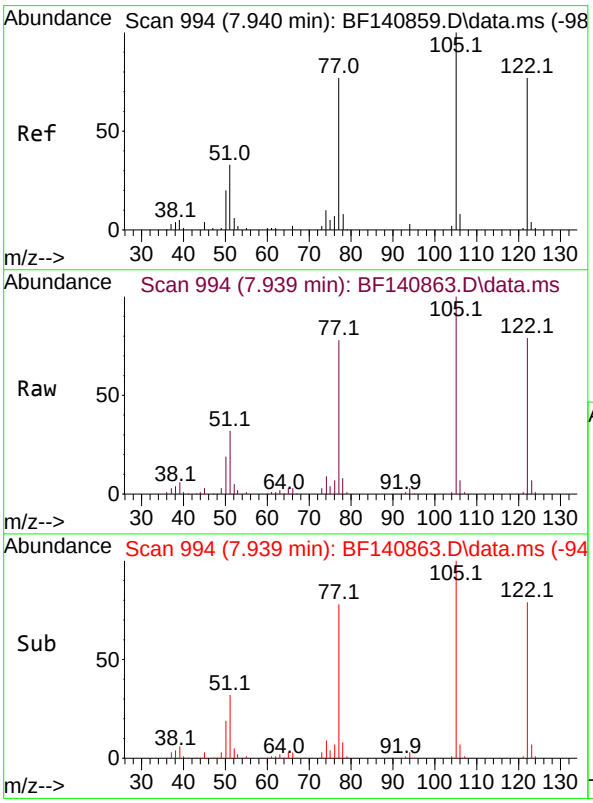
#31
Naphthalene
Concen: 38.473 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:128 Resp: 763453

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.1	10.6	16.0

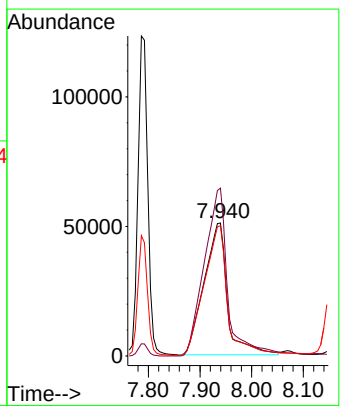


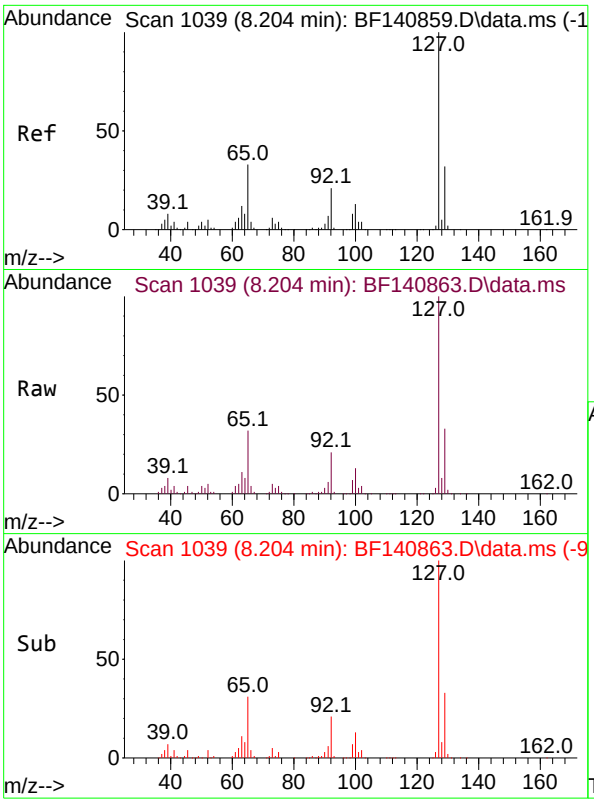


#32
Benzoic acid
Concen: 42.351 ng
RT: 7.939 min Scan# 994
Delta R.T. -0.001 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:122 Resp: 159806

Ion	Ratio	Lower	Upper
122	100		
105	126.3	108.3	148.3
77	98.0	78.8	118.8



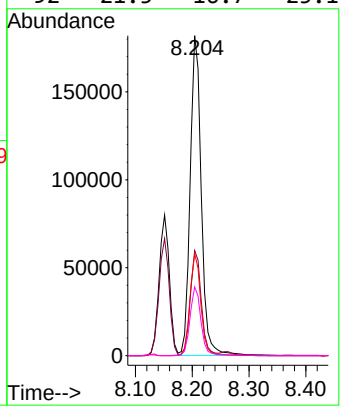


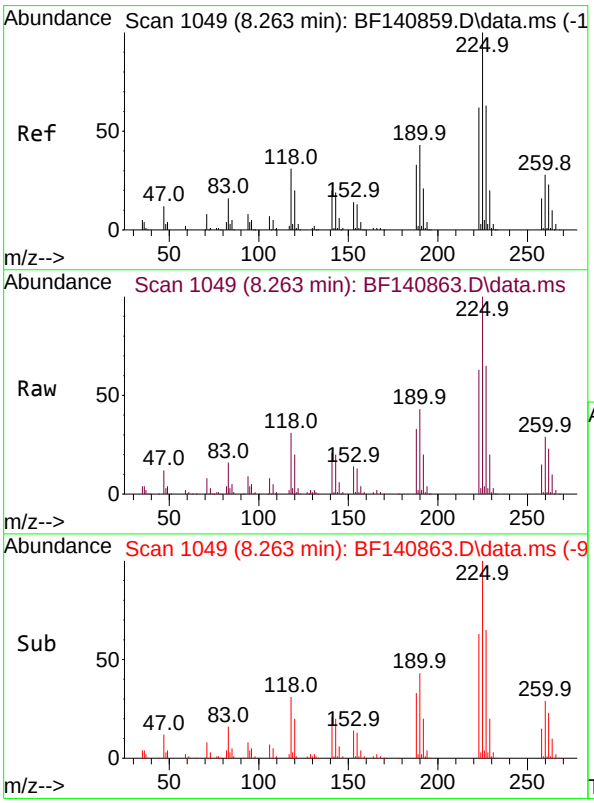
#33
4-Chloroaniline
Concen: 37.650 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:127 Resp: 248138

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.0	39.0
65	31.9	26.0	39.0
92	21.5	16.7	25.1

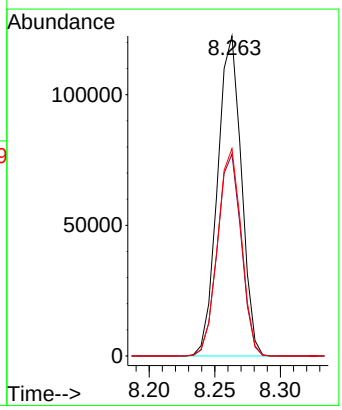


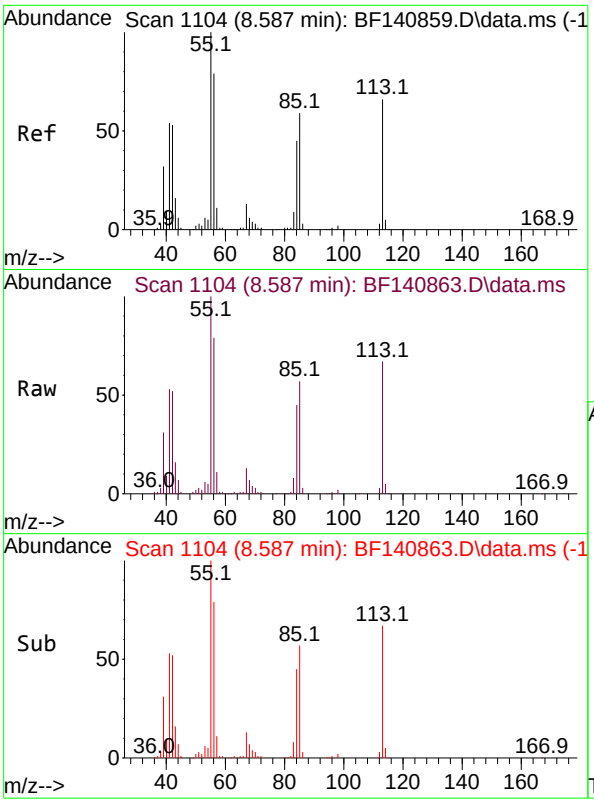


#34
Hexachlorobutadiene
Concen: 36.462 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:225 Resp: 154475

Ion	Ratio	Lower	Upper
225	100		
223	63.0	49.6	74.4
227	64.8	50.7	76.1



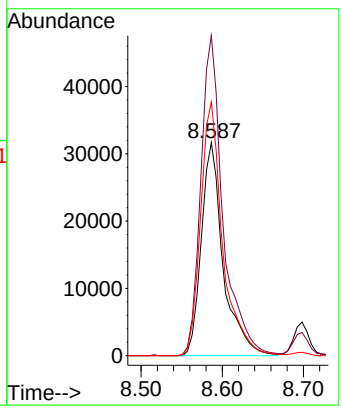


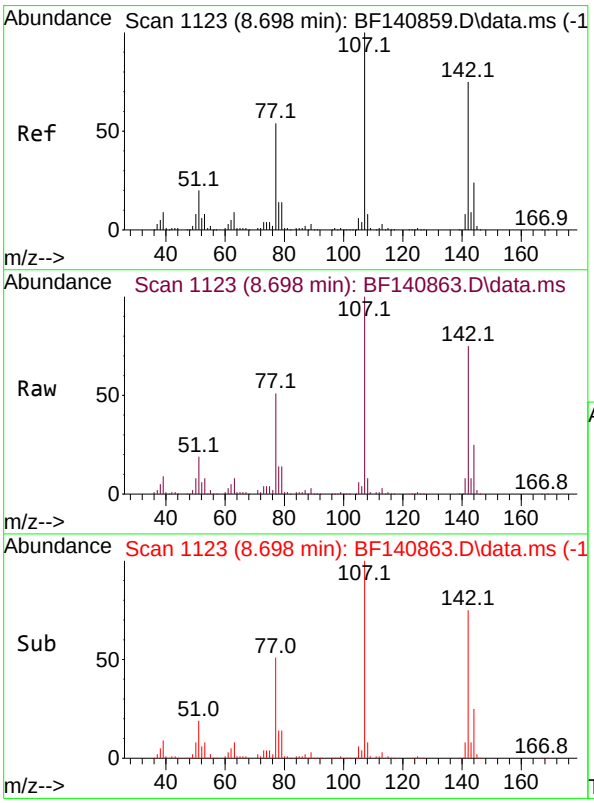
#35
Caprolactam
Concen: 36.113 ng
RT: 8.587 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:113 Resp: 59056

Ion	Ratio	Lower	Upper
113	100		
55	150.3	132.3	172.3
56	119.1	100.3	140.3

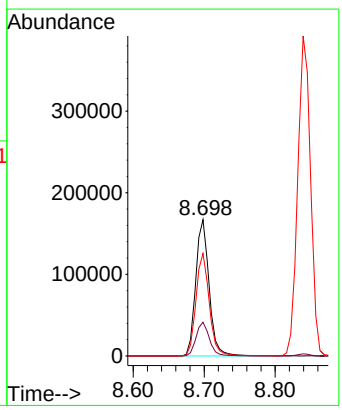


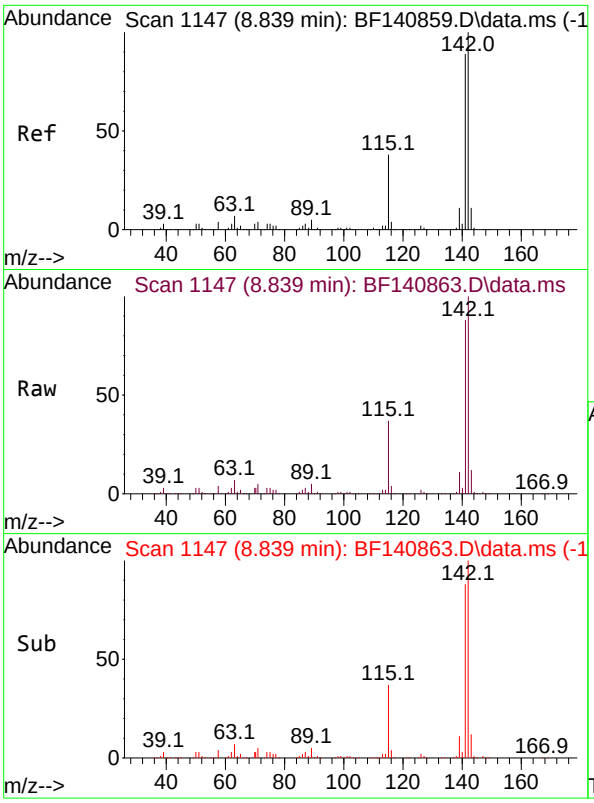


#36
4-Chloro-3-methylphenol
Concen: 35.477 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:107 Resp: 219338

Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.4	29.2
142	75.3	60.3	90.5



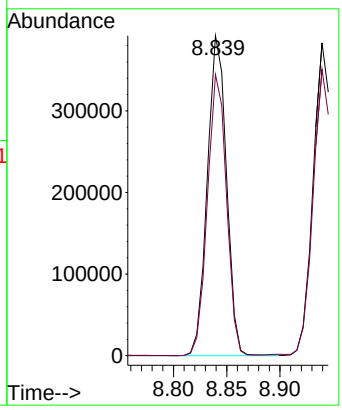


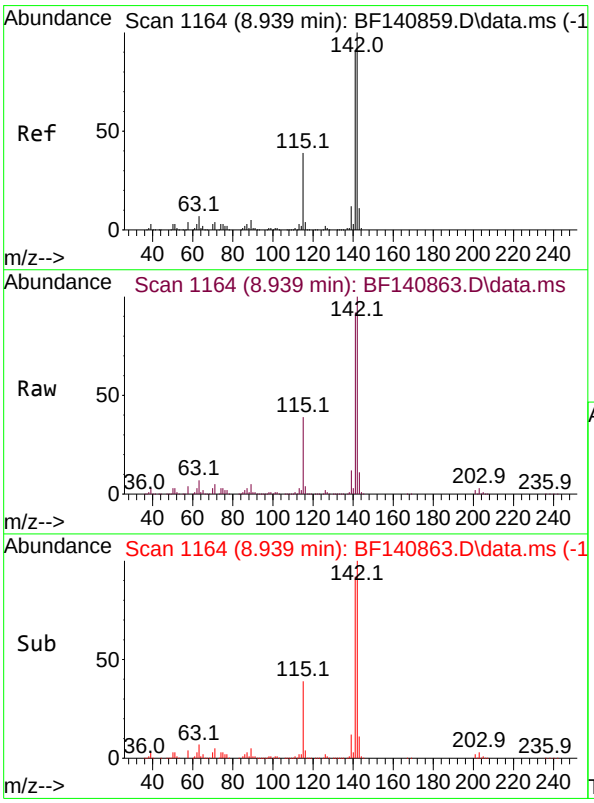
#37
2-Methylnaphthalene
Concen: 37.337 ng
RT: 8.839 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:142 Resp: 490114

Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.0	106.6

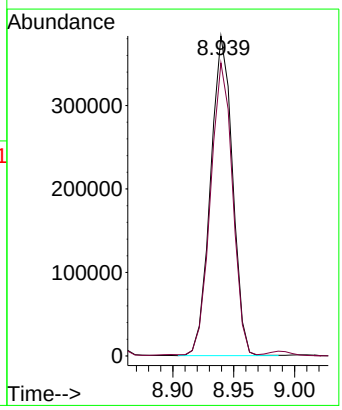


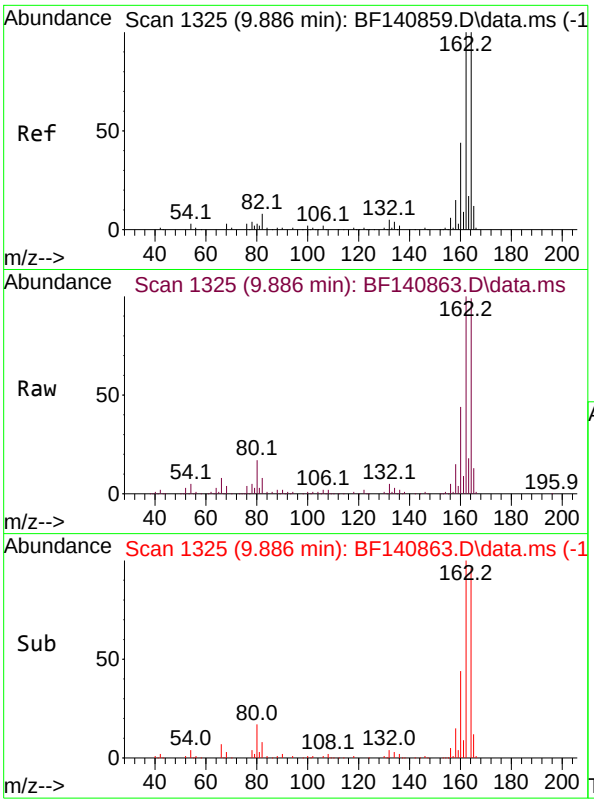


#38
1-Methylnaphthalene
Concen: 36.969 ng
RT: 8.939 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:142 Resp: 479930

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.4	110.0



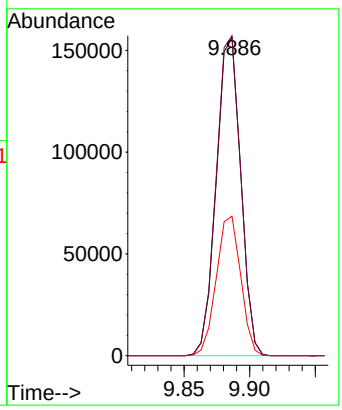


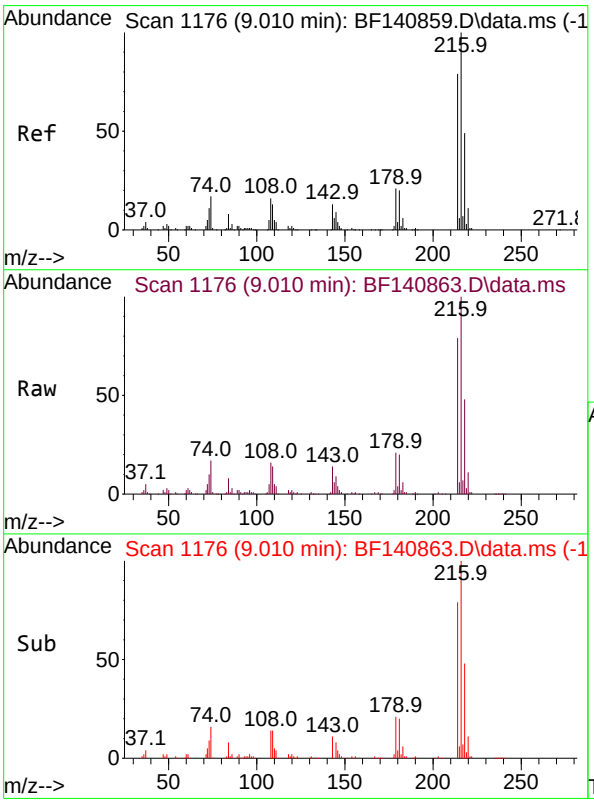
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:164 Resp: 202013

Ion	Ratio	Lower	Upper
164	100		
162	100.6	79.9	119.9
160	43.9	35.2	52.8

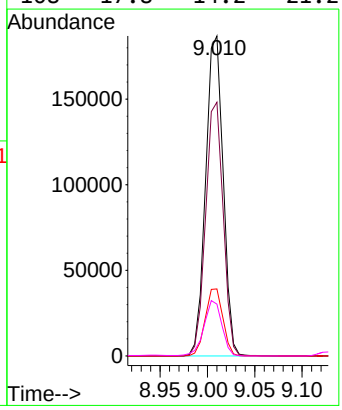


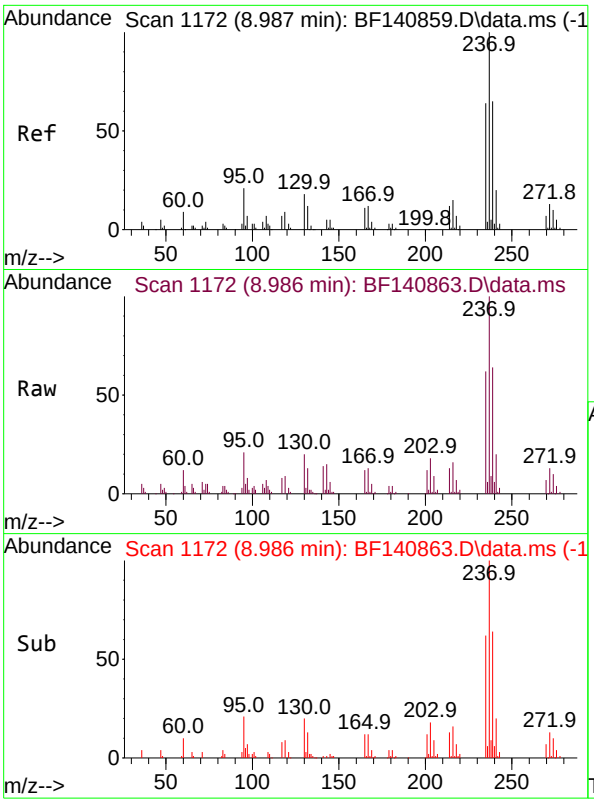


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.668 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:216 Resp: 240096

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.6	95.4
179	21.1	17.0	25.4
108	17.8	14.2	21.2



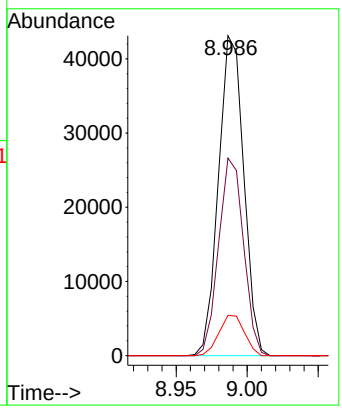


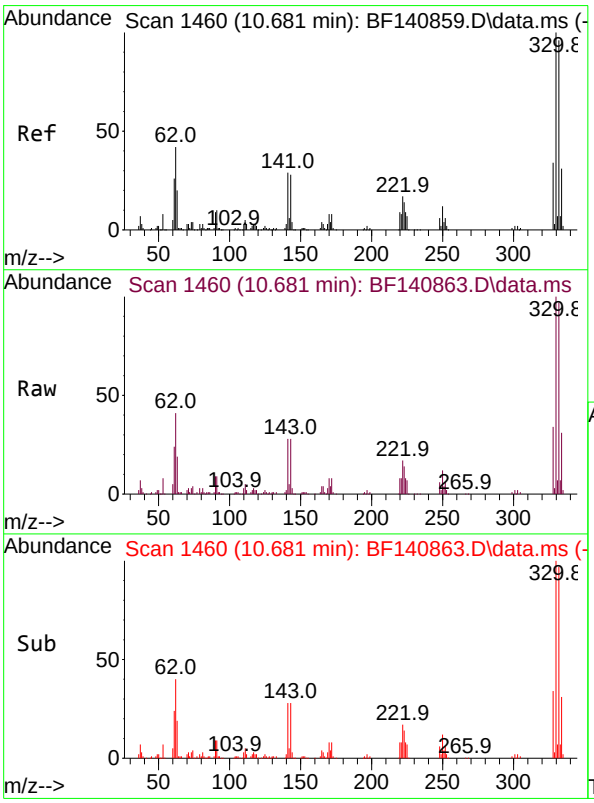
#41
Hexachlorocyclopentadiene
Concen: 37.672 ng
RT: 8.986 min Scan# 11
Delta R.T. -0.001 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:237 Resp: 53352

Ion	Ratio	Lower	Upper
237	100		
235	61.7	43.7	83.7
272	12.6	0.0	32.9

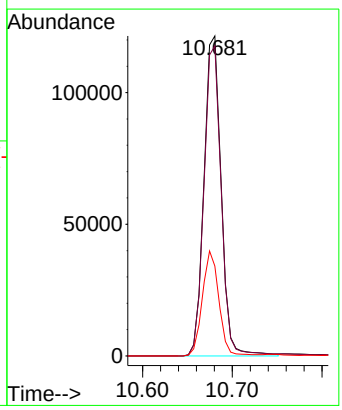


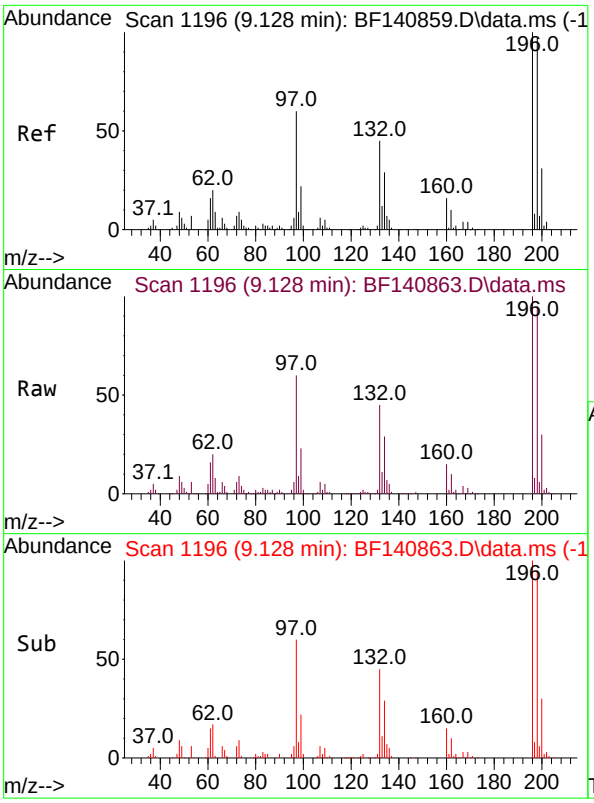


#42
2,4,6-Tribromophenol
Concen: 67.791 ng
RT: 10.681 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:330 Resp: 161969

Ion	Ratio	Lower	Upper
330	100		
332	99.0	76.2	114.4
141	31.6	24.9	37.3



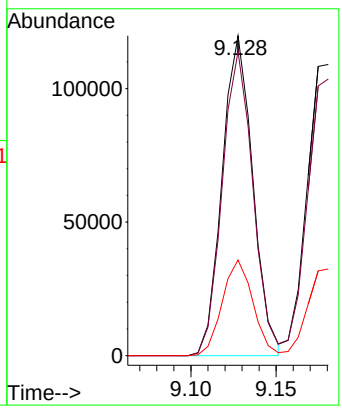


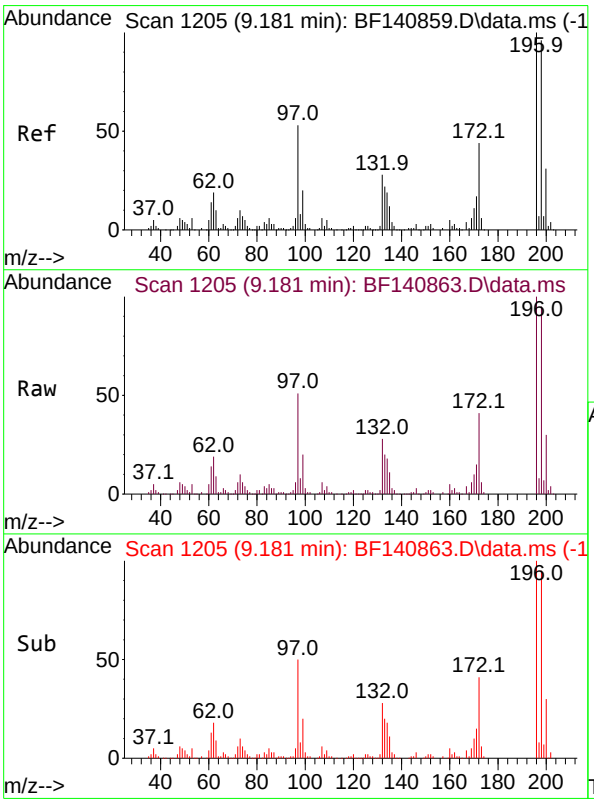
#43
2,4,6-Trichlorophenol
Concen: 39.419 ng
RT: 9.128 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:196 Resp: 149871

Ion	Ratio	Lower	Upper
196	100		
198	95.0	77.4	116.0
200	29.9	24.5	36.7

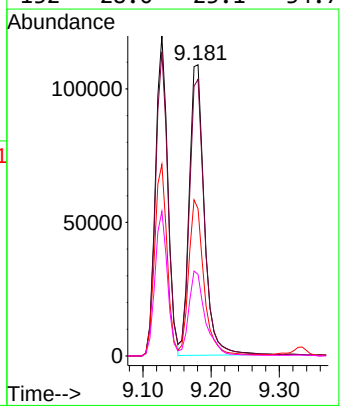


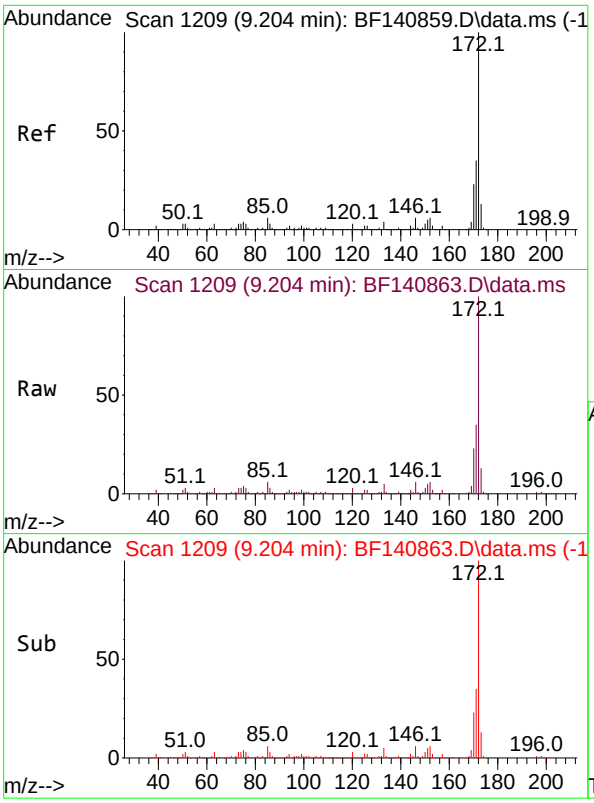


#44
2,4,5-Trichlorophenol
Concen: 39.895 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:196 Resp: 166716

Ion	Ratio	Lower	Upper
196	100		
198	95.0	77.2	115.8
97	50.5	42.2	63.4
132	28.0	23.1	34.7



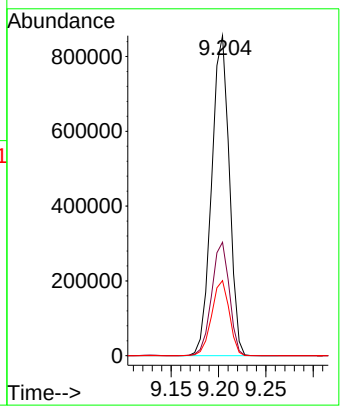


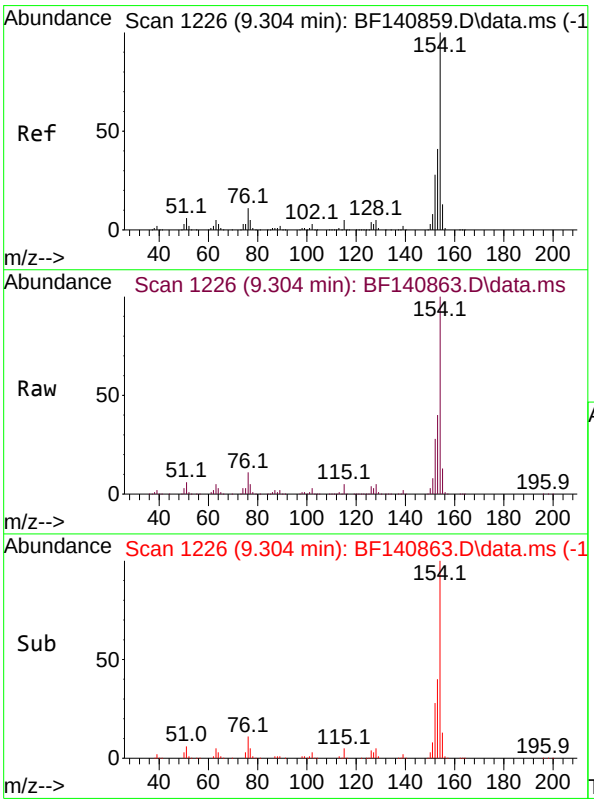
#45
2-Fluorobiphenyl
Concen: 75.432 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:172 Resp: 1108356

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.4	42.6
170	23.5	18.6	28.0

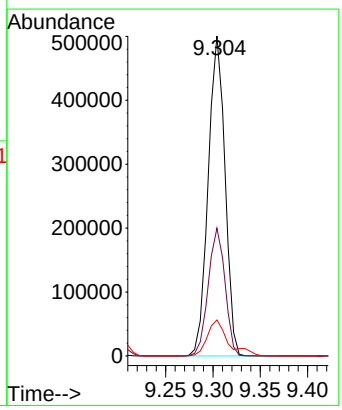


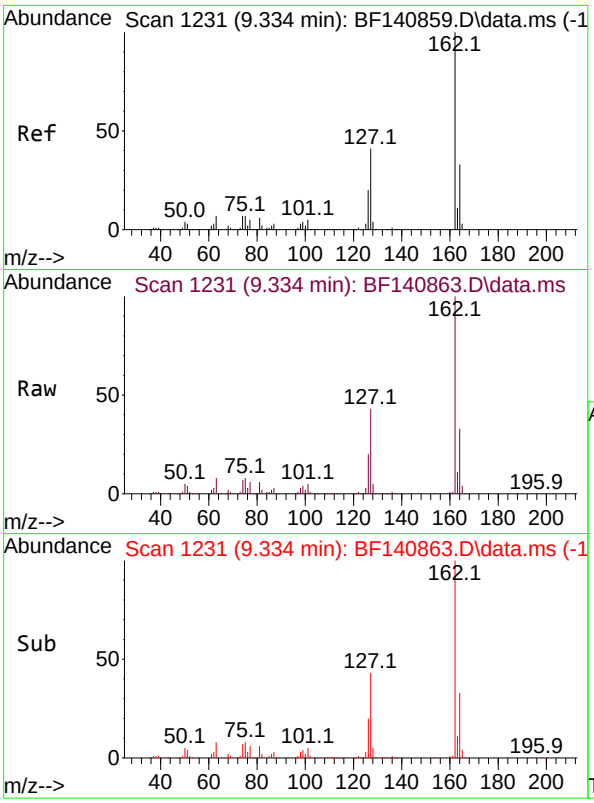


#46
1,1'-Biphenyl
Concen: 38.412 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:154 Resp: 617038

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.8	60.8
76	11.3	0.0	31.0



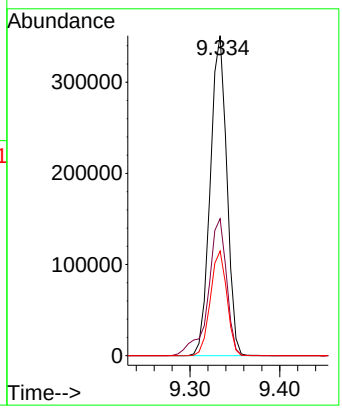


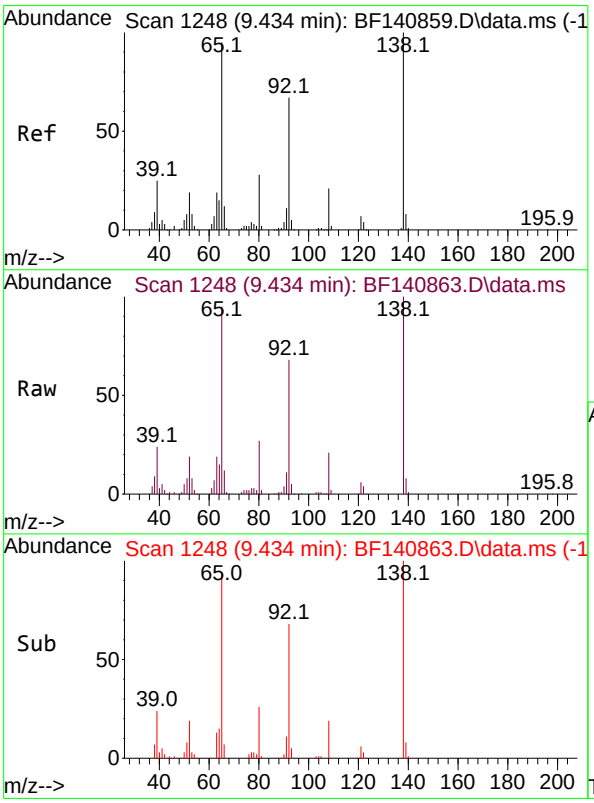
#47
2-Chloronaphthalene
Concen: 36.522 ng
RT: 9.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:162 Resp: 448814

Ion	Ratio	Lower	Upper
162	100		
127	42.8	33.5	50.3
164	32.7	26.2	39.2

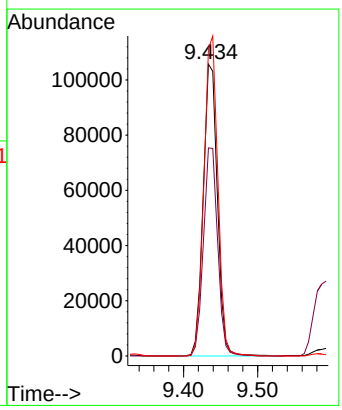


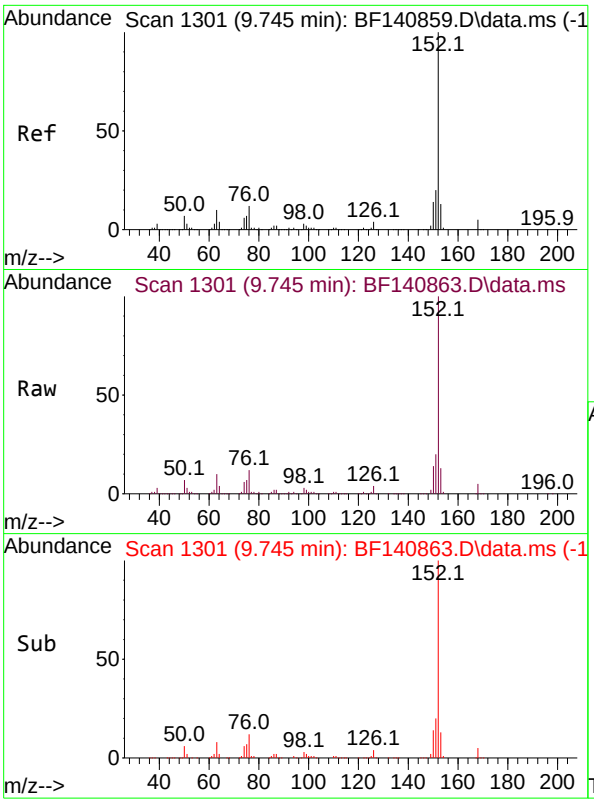


#48
2-Nitroaniline
Concen: 37.990 ng
RT: 9.434 min Scan# 1248
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion: 65 Resp: 140999

Ion	Ratio	Lower	Upper
65	100		
92	71.3	56.3	84.5
138	105.2	83.8	125.6



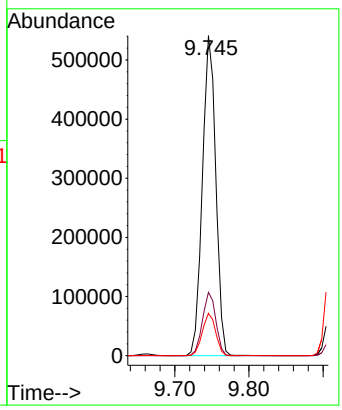


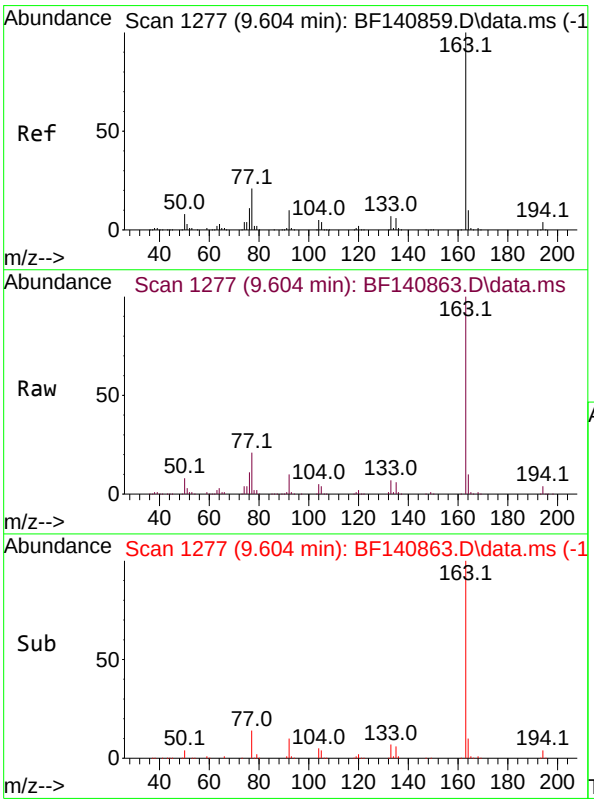
#49
Acenaphthylene
Concen: 37.651 ng
RT: 9.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:152 Resp: 679962

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	13.3	10.6	16.0

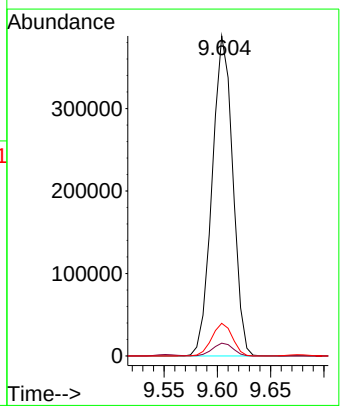


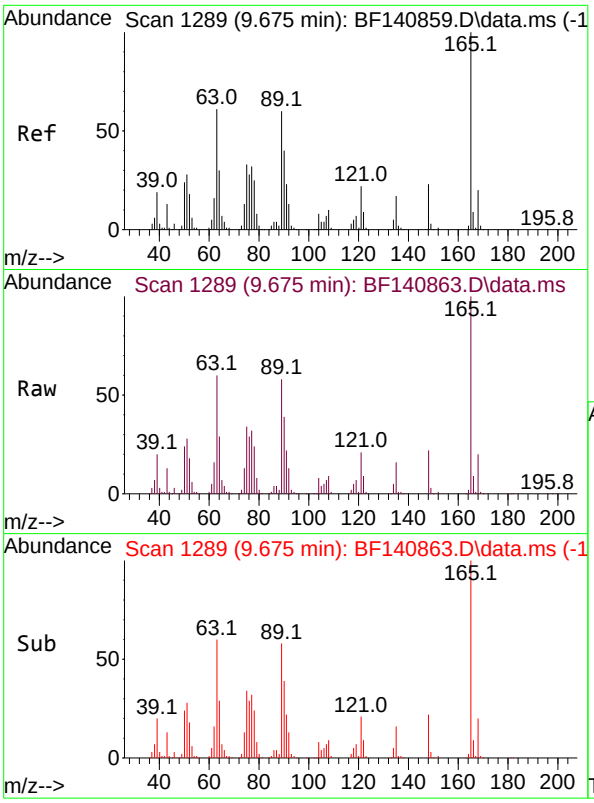


#50
Dimethylphthalate
Concen: 36.704 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:163 Resp: 522757

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	8.1	12.1



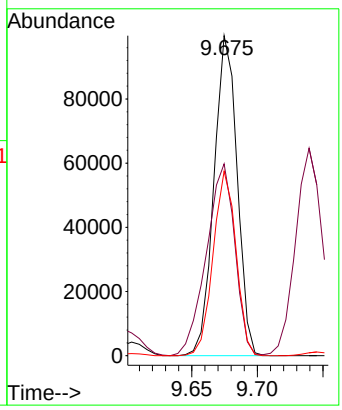


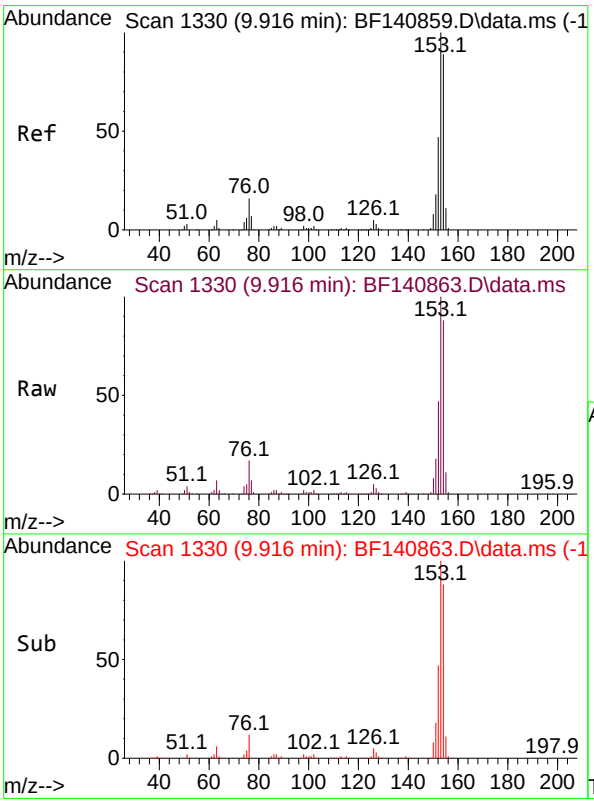
#51
2,6-Dinitrotoluene
Concen: 37.595 ng
RT: 9.675 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:165 Resp: 122408

Ion	Ratio	Lower	Upper
165	100		
63	60.0	49.7	74.5
89	57.6	48.2	72.4

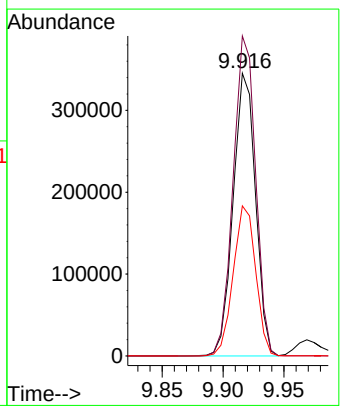


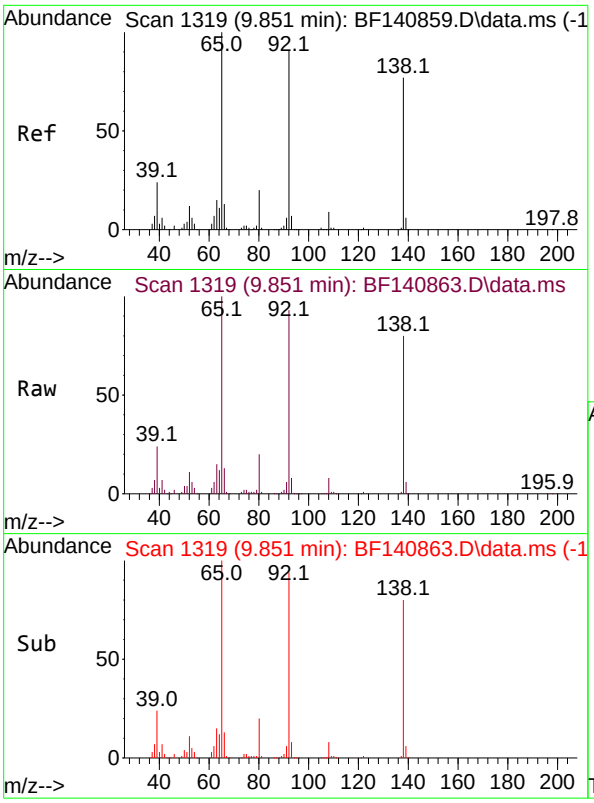


#52
Acenaphthene
Concen: 38.275 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:154 Resp: 441540

Ion	Ratio	Lower	Upper
154	100		
153	113.2	89.9	134.9
152	53.1	42.6	63.8



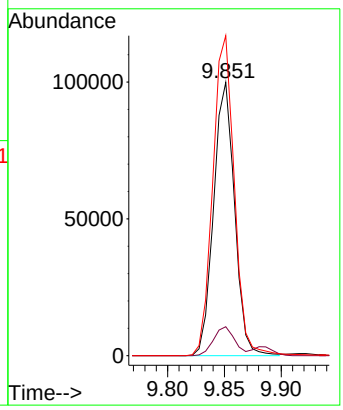


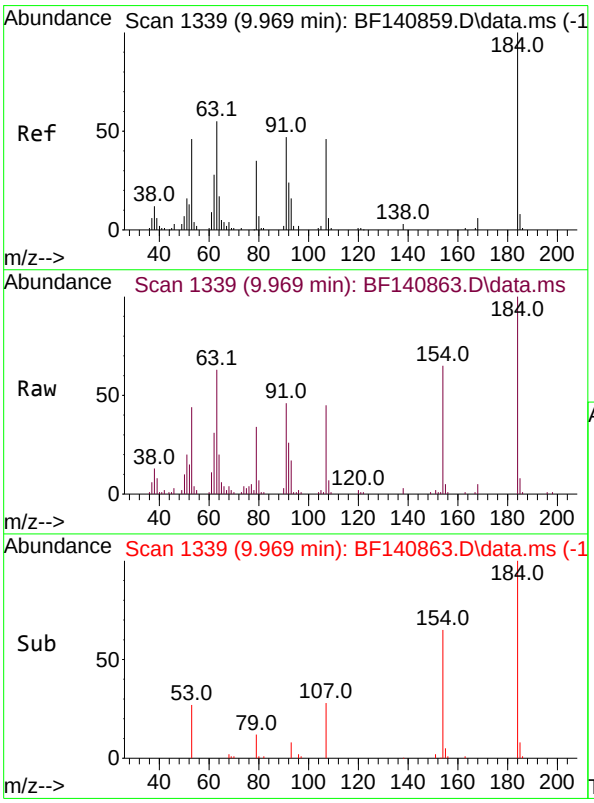
#53
3-Nitroaniline
Concen: 39.722 ng
RT: 9.851 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:138 Resp: 128348

Ion	Ratio	Lower	Upper
138	100		
108	10.6	9.0	13.4
92	117.1	95.5	143.3

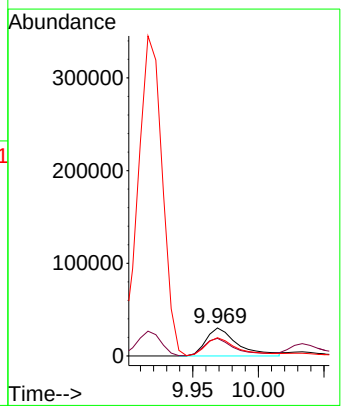


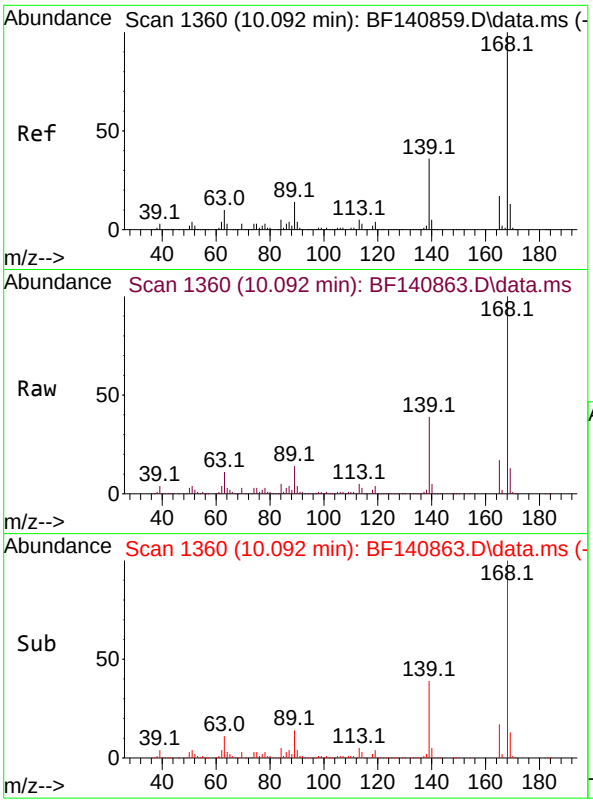


#54
2,4-Dinitrophenol
Concen: 35.766 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:184 Resp: 50562

Ion	Ratio	Lower	Upper
184	100		
63	63.0	51.6	77.4
154	65.4	56.1	84.1



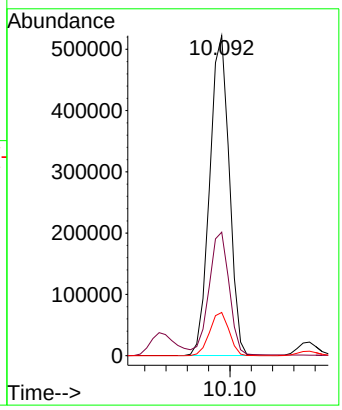


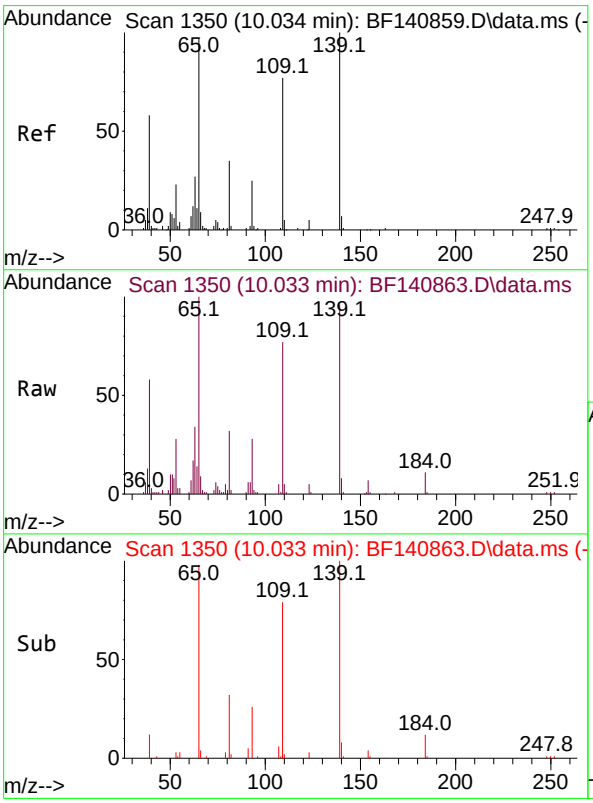
#55
Dibenzofuran
Concen: 37.113 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:168 Resp: 663435

Ion	Ratio	Lower	Upper
168	100		
139	38.6	31.1	46.7
169	13.5	10.6	16.0

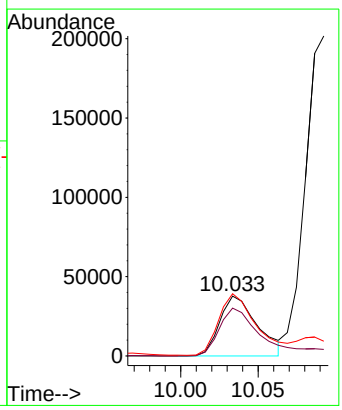


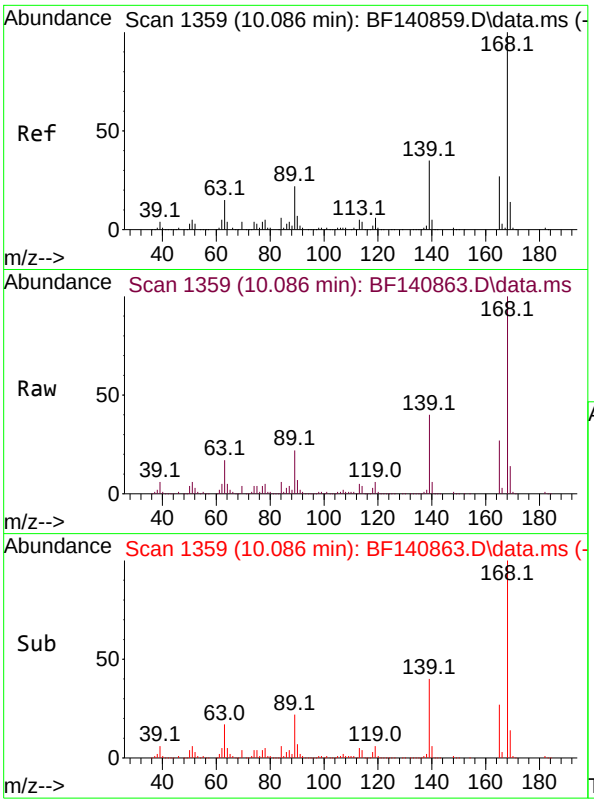


#56
4-Nitrophenol
Concen: 38.834 ng
RT: 10.033 min Scan# 1350
Delta R.T. -0.001 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:139 Resp: 63289

Ion	Ratio	Lower	Upper
139	100		
109	80.0	56.7	96.7
65	103.8	78.1	118.1



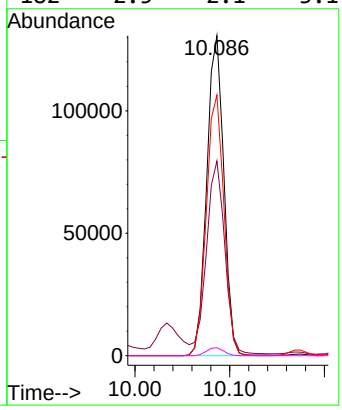


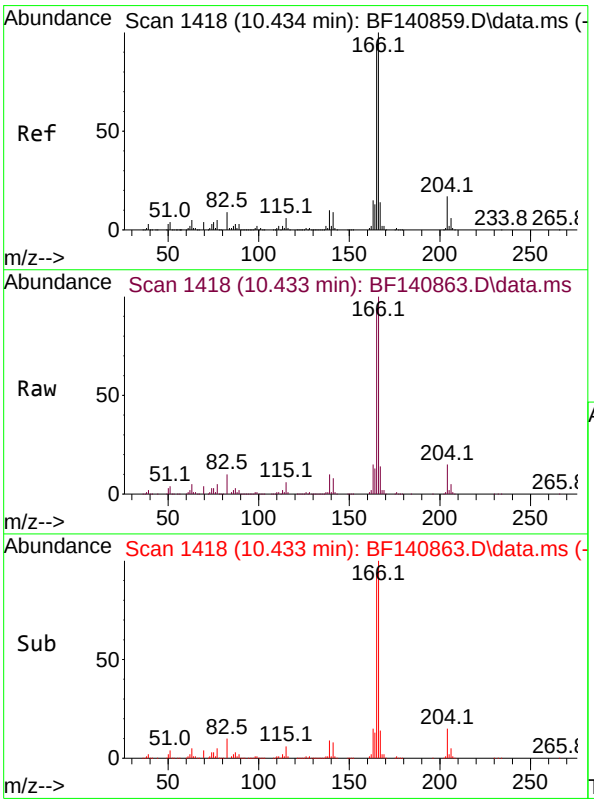
#57
2,4-Dinitrotoluene
Concen: 38.076 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:165 Resp: 163115

Ion	Ratio	Lower	Upper
165	100		
63	60.9	49.3	73.9
89	81.5	66.2	99.4
182	2.5	2.1	3.1

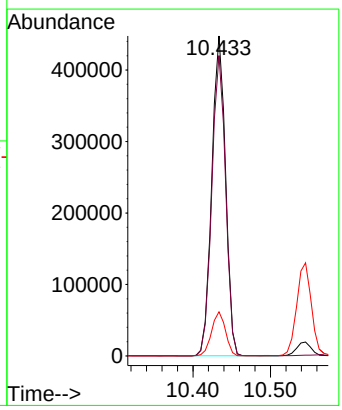


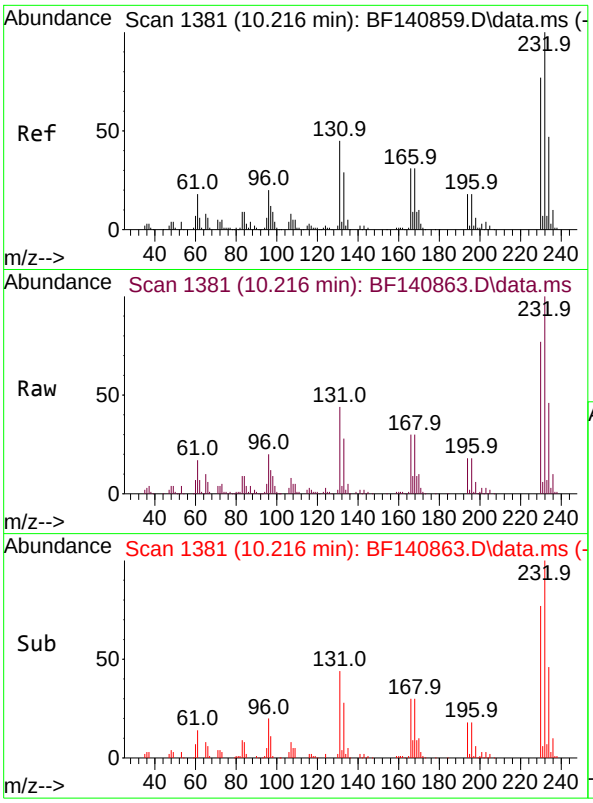


#58
Fluorene
Concen: 37.370 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:166 Resp: 551110

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.1	112.7
167	13.8	11.1	16.7



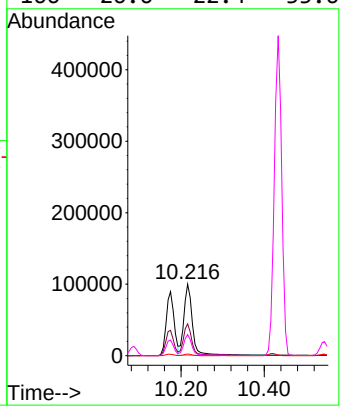


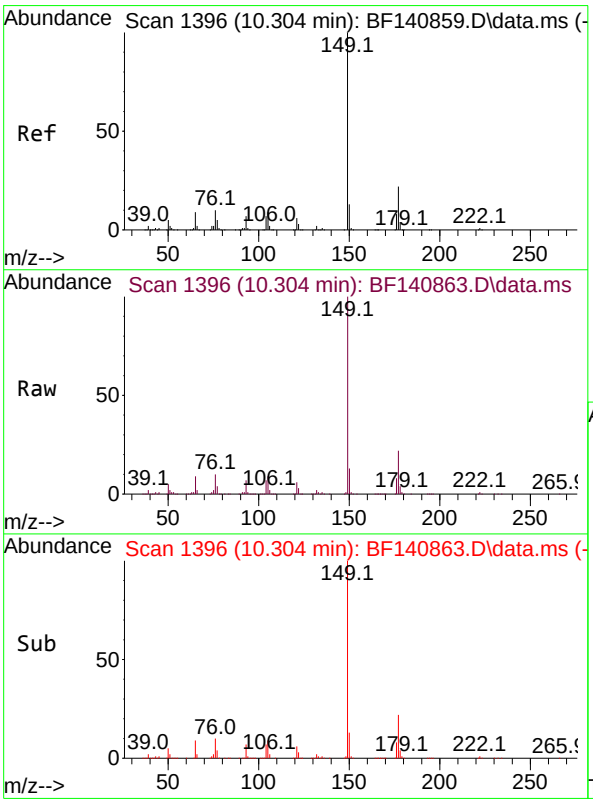
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.405 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:232 Resp: 144396

Ion	Ratio	Lower	Upper
232	100		
131	42.6	35.1	52.7
130	2.2	1.8	2.8
166	26.6	22.4	33.6

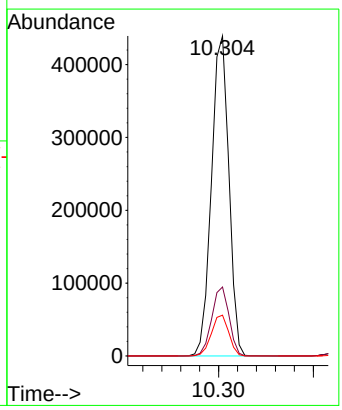


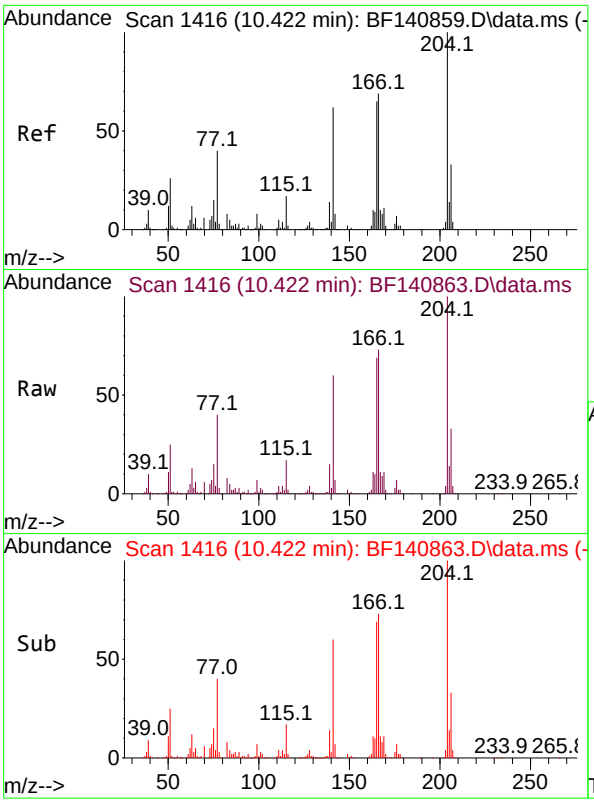


#60
Diethylphthalate
Concen: 37.926 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:149 Resp: 560121

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.2	25.8
150	12.7	10.1	15.1



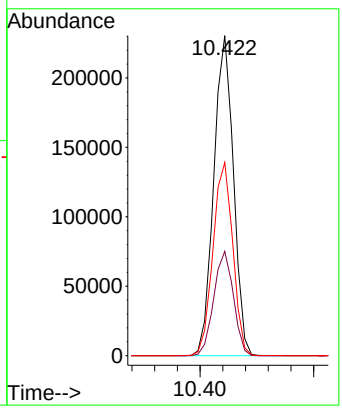


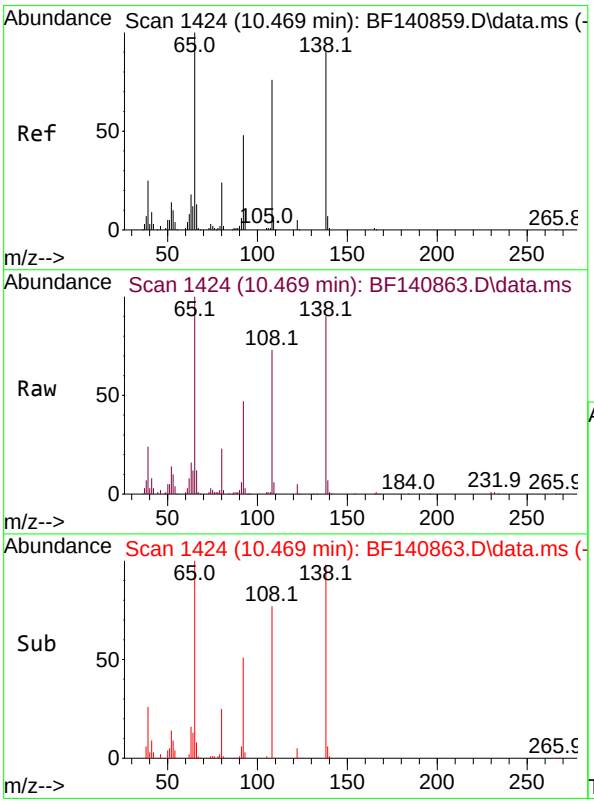
#61
4-Chlorophenyl-phenylether
Concen: 37.398 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:204 Resp: 277040

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.5	39.7
141	60.3	50.0	75.0

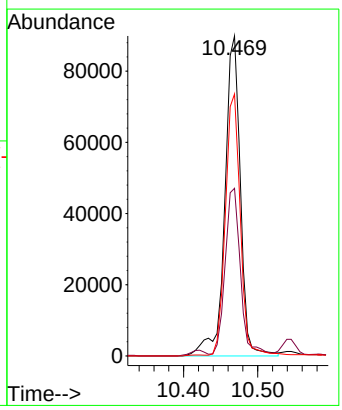


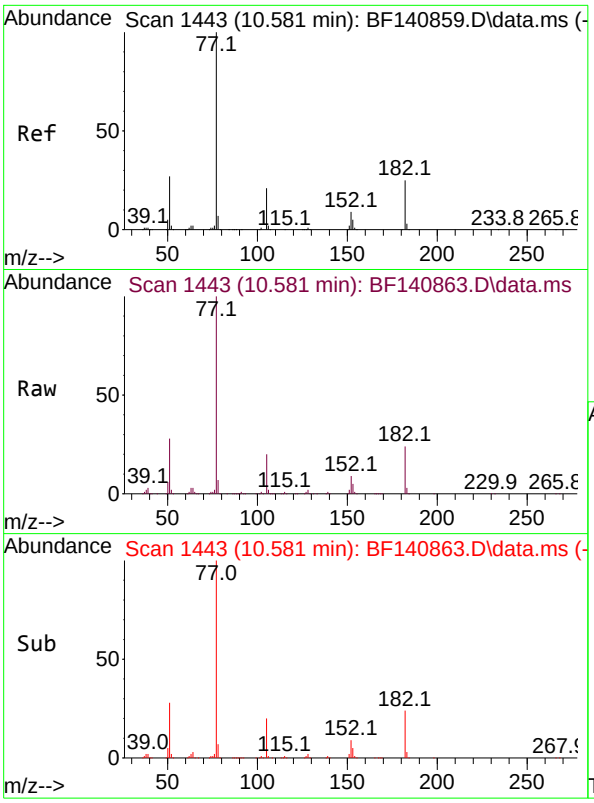


#62
4-Nitroaniline
Concen: 38.912 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:138 Resp: 131388

Ion	Ratio	Lower	Upper
138	100		
92	52.4	32.6	72.6
108	81.8	64.1	104.1



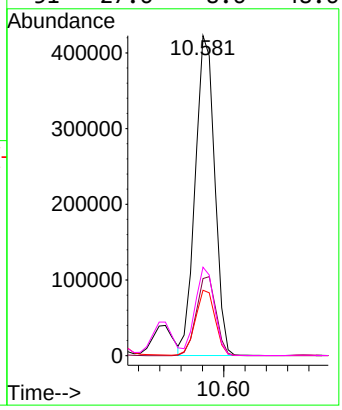


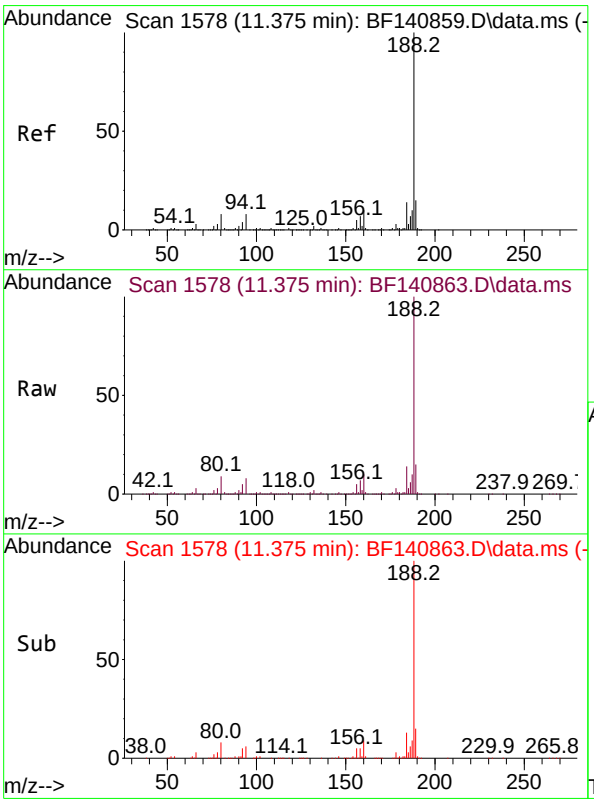
#63
Azobenzene
Concen: 38.657 ng
RT: 10.581 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion: 77 Resp: 536731

Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.5	44.5
105	20.5	0.9	40.9
51	27.6	8.6	48.6

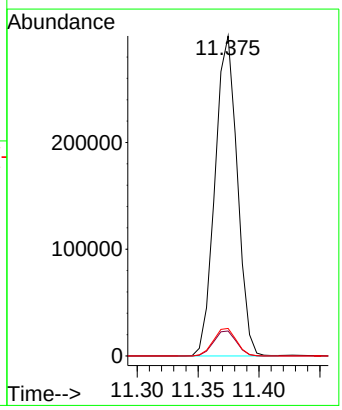


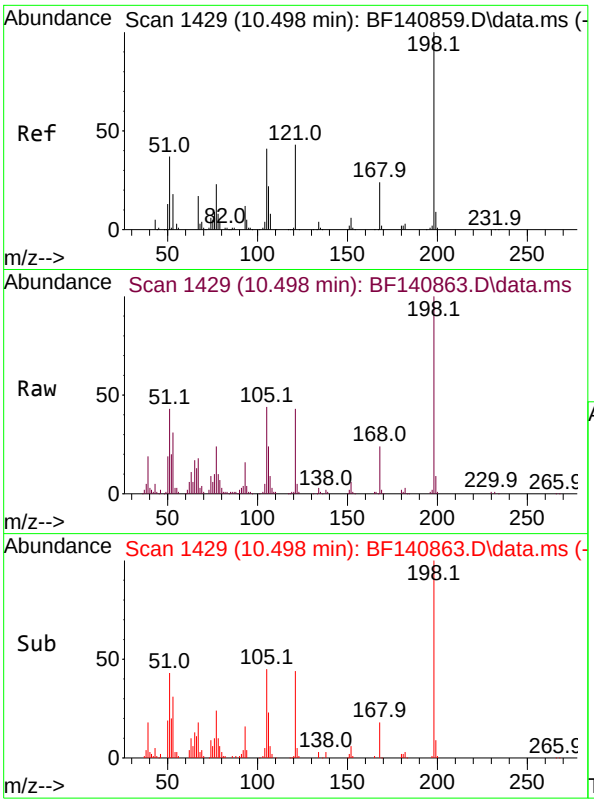


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:188 Resp: 381984

Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.4	9.6
80	8.6	6.8	10.2



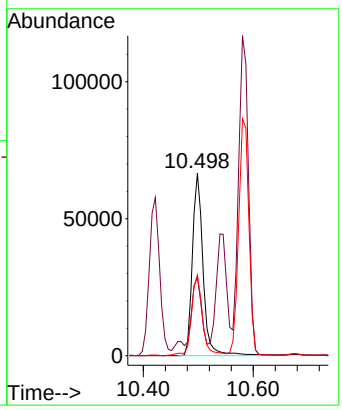


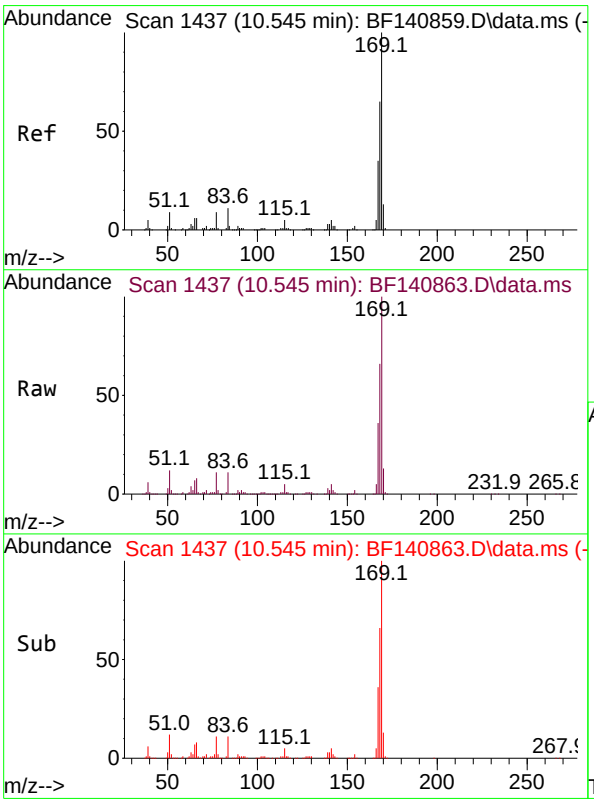
#65
4,6-Dinitro-2-methylphenol
Concen: 41.637 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:198 Resp: 90125

Ion	Ratio	Lower	Upper
198	100		
51	42.9	24.4	64.4
105	44.3	22.1	62.1

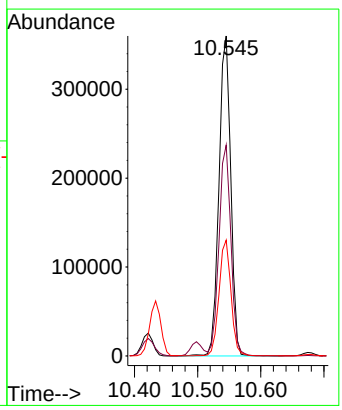


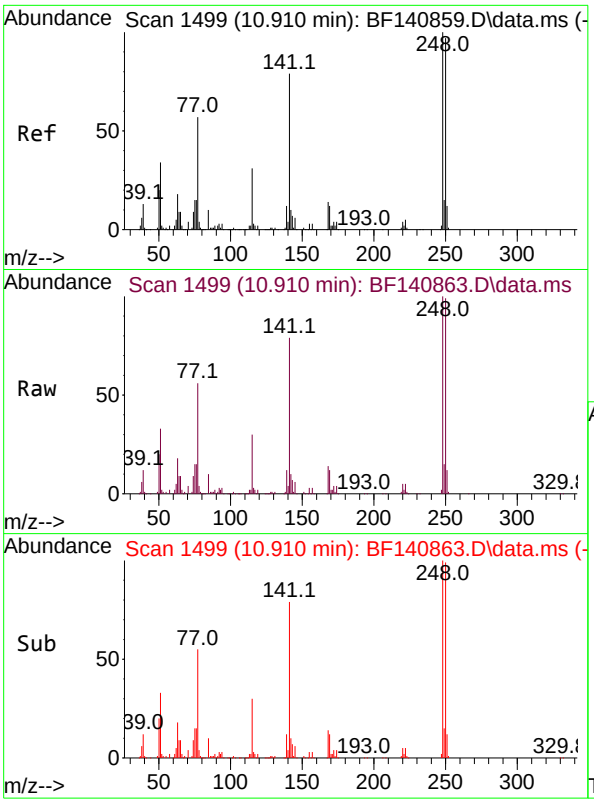


#66
n-Nitrosodiphenylamine
Concen: 39.710 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:169 Resp: 466366

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.4	80.0
167	36.2	28.3	42.5



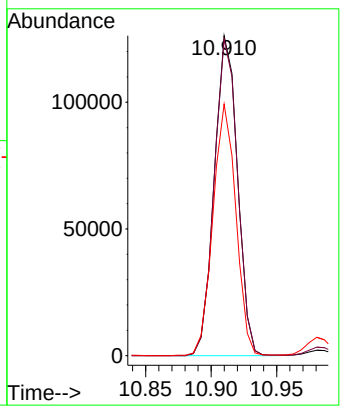


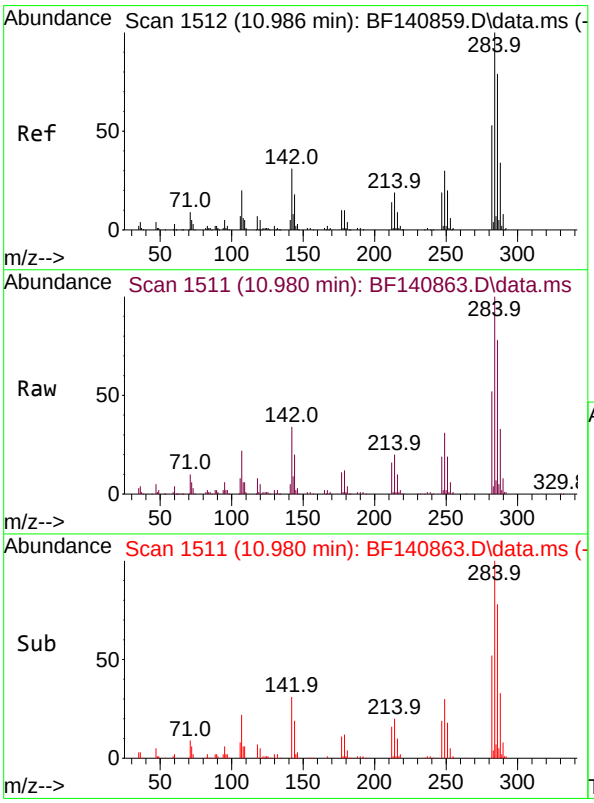
#67
4-Bromophenyl-phenylether
Concen: 36.329 ng
RT: 10.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:248 Resp: 155245

Ion	Ratio	Lower	Upper
248	100		
250	98.9	77.4	116.2
141	78.6	62.9	94.3

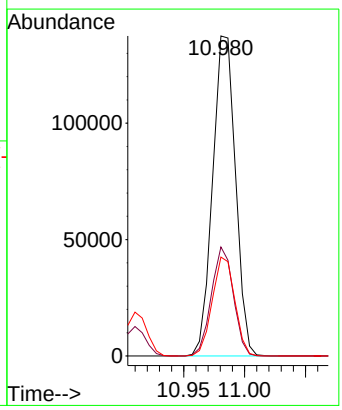


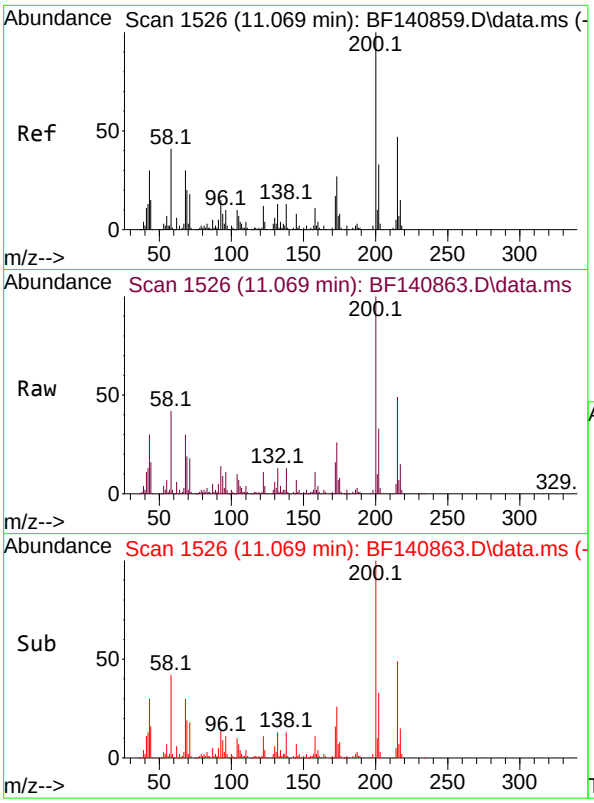


#68
Hexachlorobenzene
Concen: 37.132 ng
RT: 10.980 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:284 Resp: 179906

Ion	Ratio	Lower	Upper
284	100		
142	34.0	24.6	36.8
249	30.9	24.3	36.5



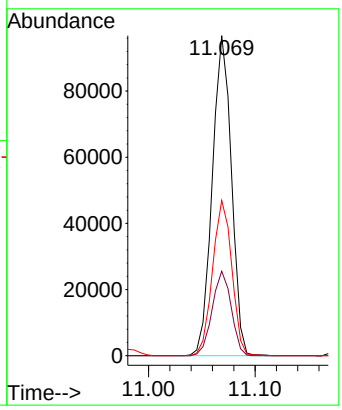


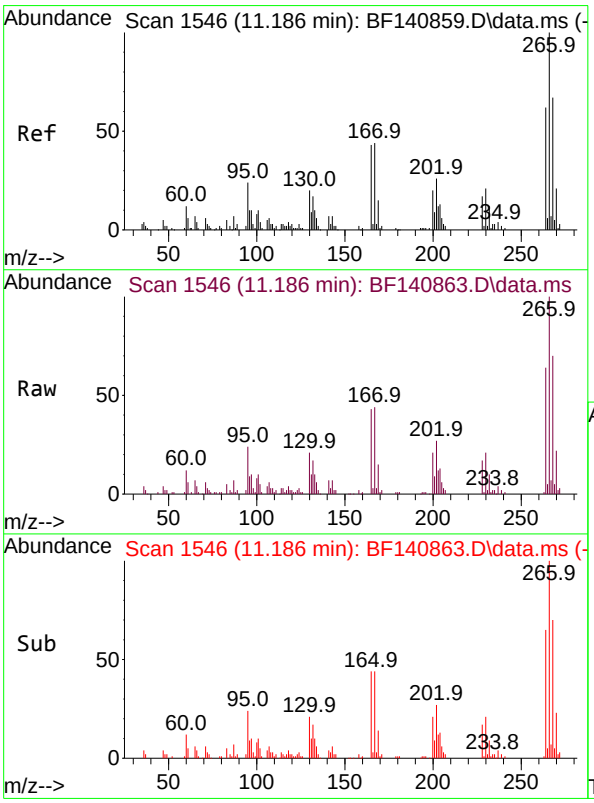
#69
Atrazine
Concen: 36.838 ng
RT: 11.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:200 Resp: 120830

Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.6	46.6
215	48.5	26.7	66.7

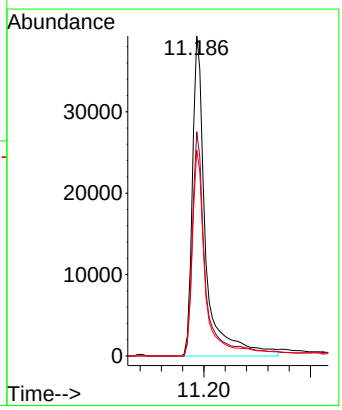


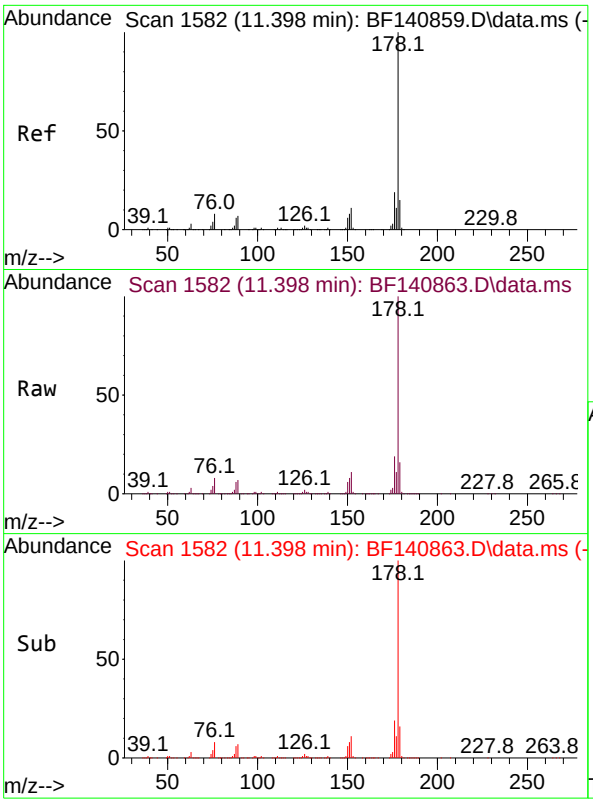


#70
Pentachlorophenol
Concen: 38.679 ng
RT: 11.186 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:266 Resp: 68516

Ion	Ratio	Lower	Upper
266	100		
268	70.1	54.0	81.0
264	64.4	49.4	74.2



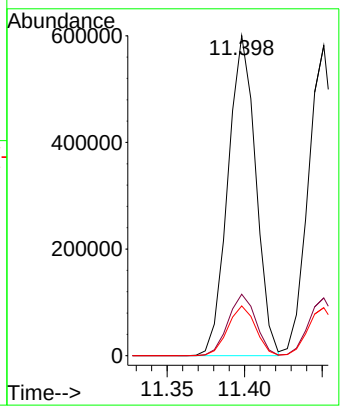


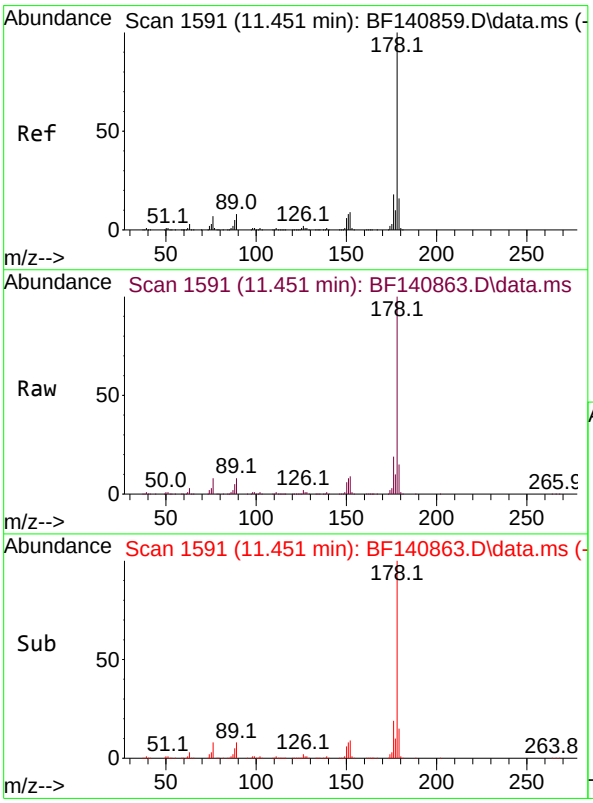
#71
Phenanthrene
Concen: 38.078 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:178 Resp: 747974

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.6	12.1	18.1

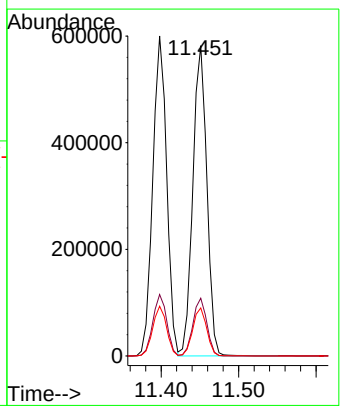


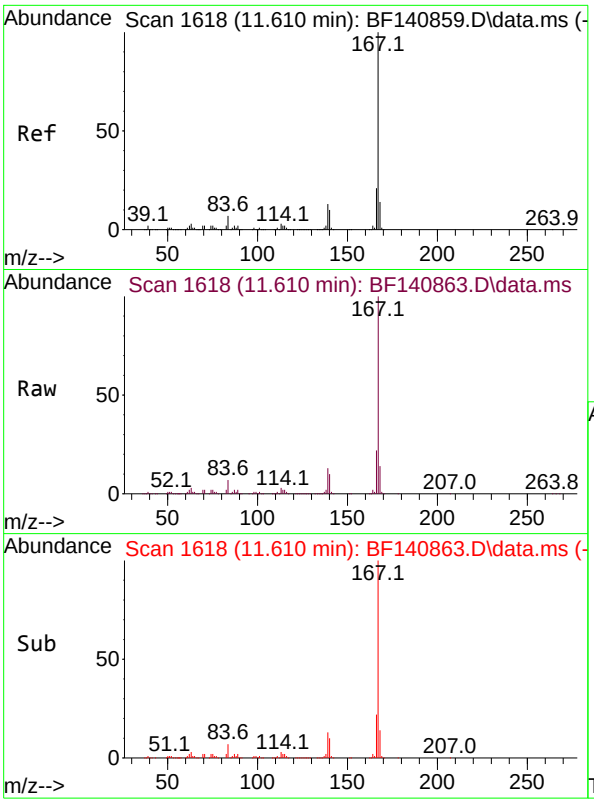


#72
Anthracene
Concen: 37.720 ng
RT: 11.451 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:178 Resp: 729685

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.6	22.0
179	15.5	12.6	18.8



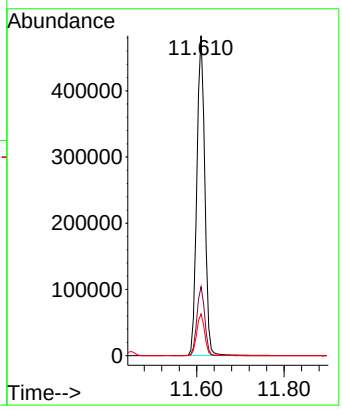


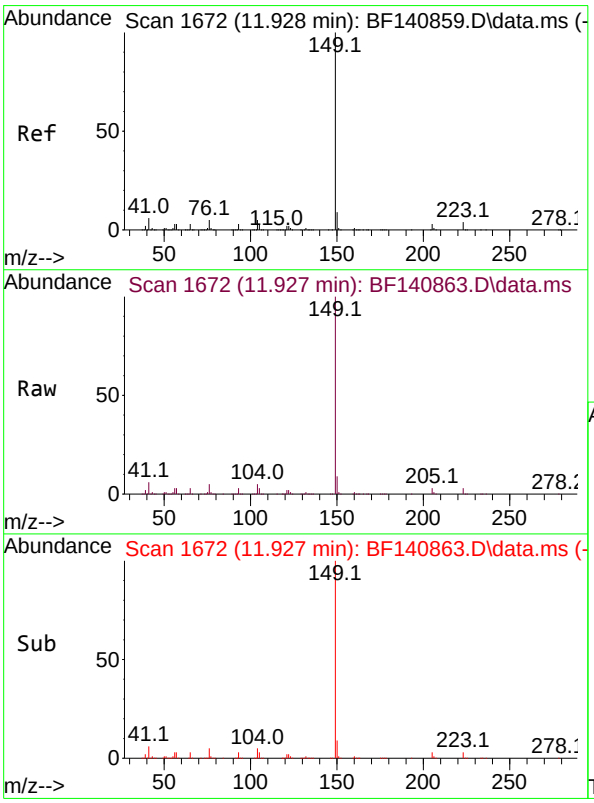
#73
Carbazole
Concen: 32.390 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:167 Resp: 613711

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.0	25.6
139	13.1	10.2	15.2

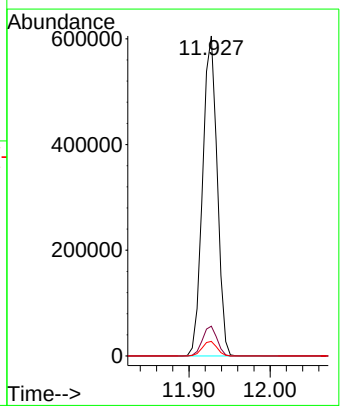


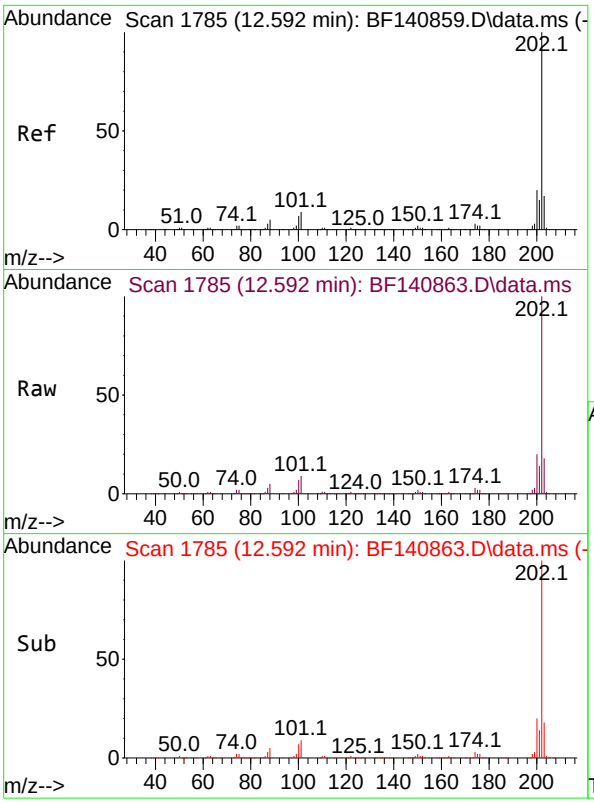


#74
Di-n-butylphthalate
Concen: 33.782 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:149 Resp: 751217

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.5	11.3
104	4.5	3.8	5.8



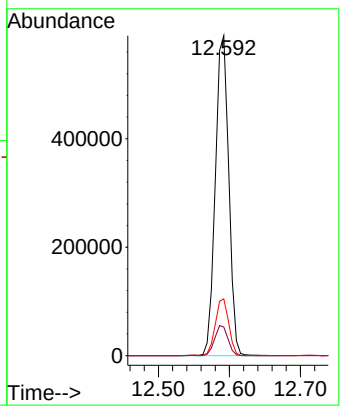


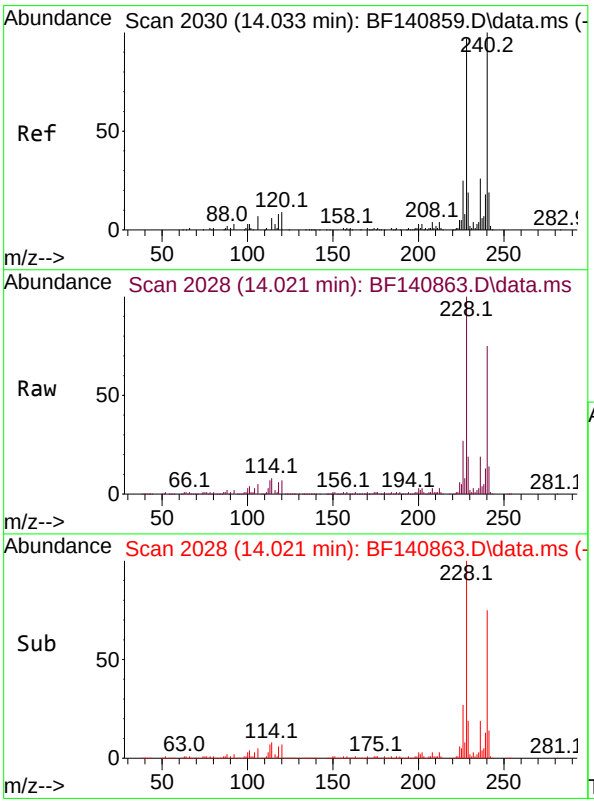
#75
Fluoranthene
Concen: 34.163 ng
RT: 12.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:202 Resp: 772859

Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	29.3
203	17.7	0.0	37.4

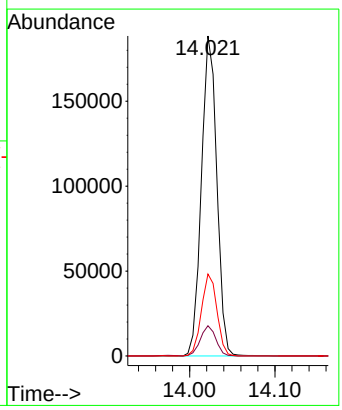


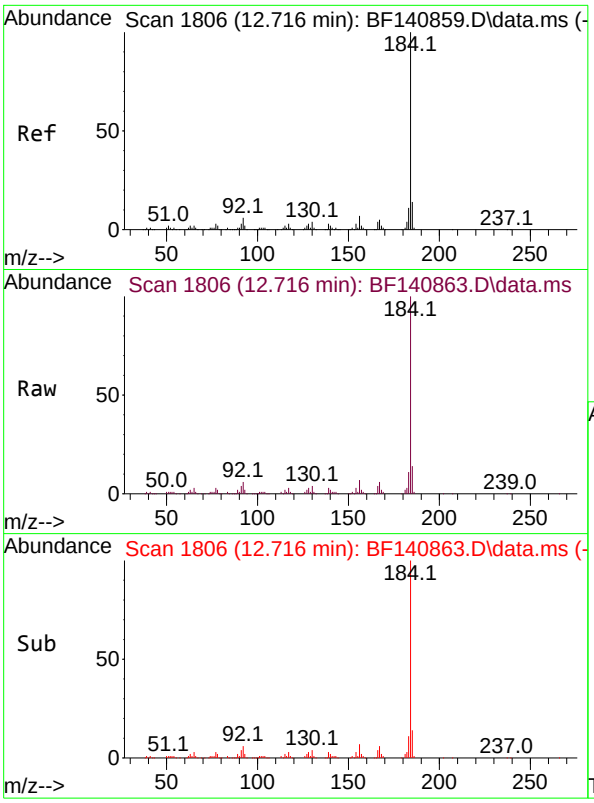


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:240 Resp: 236413

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.6	11.4
236	25.6	20.5	30.7



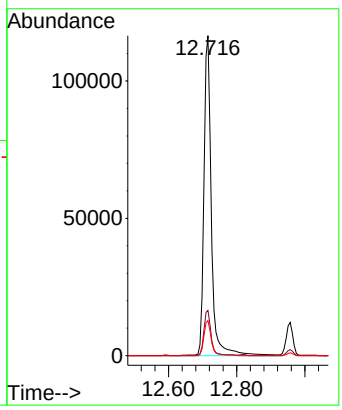


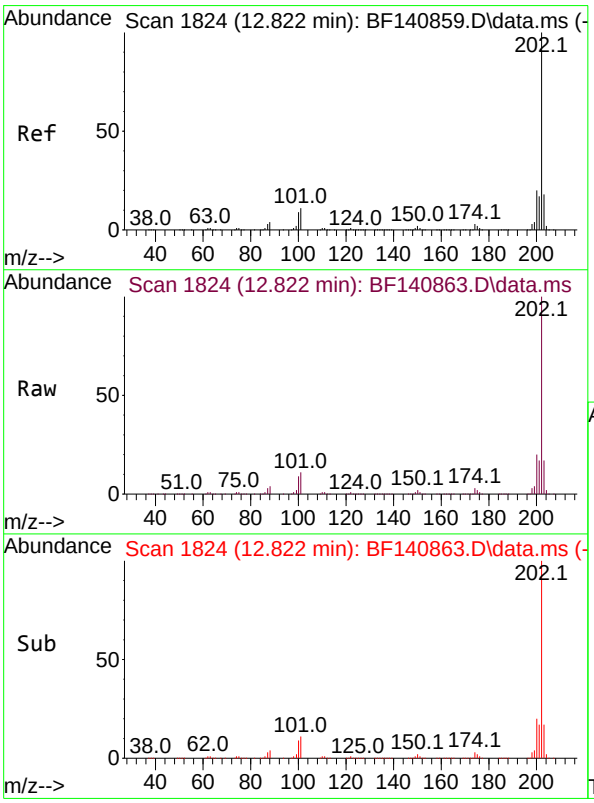
#77
Benzidine
Concen: 36.642 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:184 Resp: 176802

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.1	16.7
183	10.9	9.0	13.4

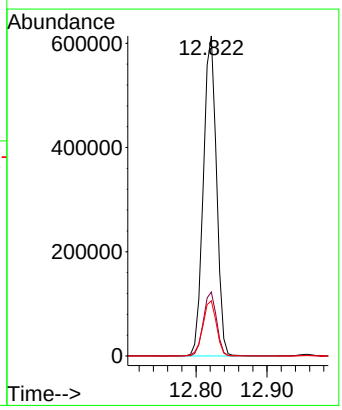


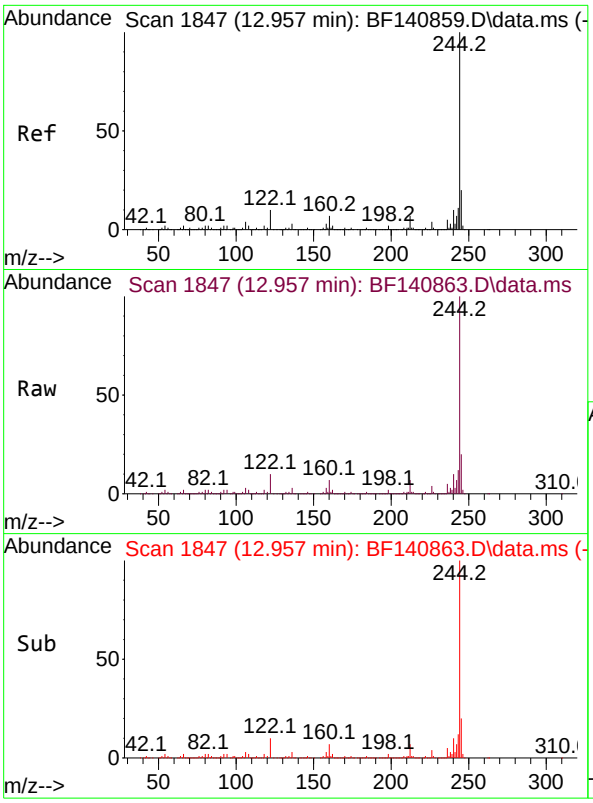


#78
Pyrene
Concen: 37.714 ng
RT: 12.822 min Scan# 1824
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:202 Resp: 792874

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.3	14.2	21.4



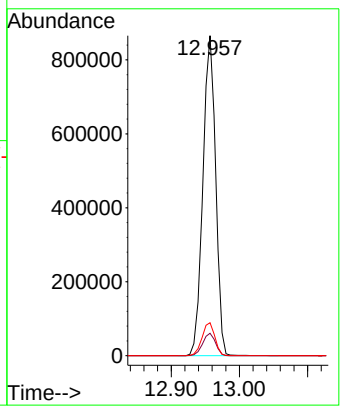


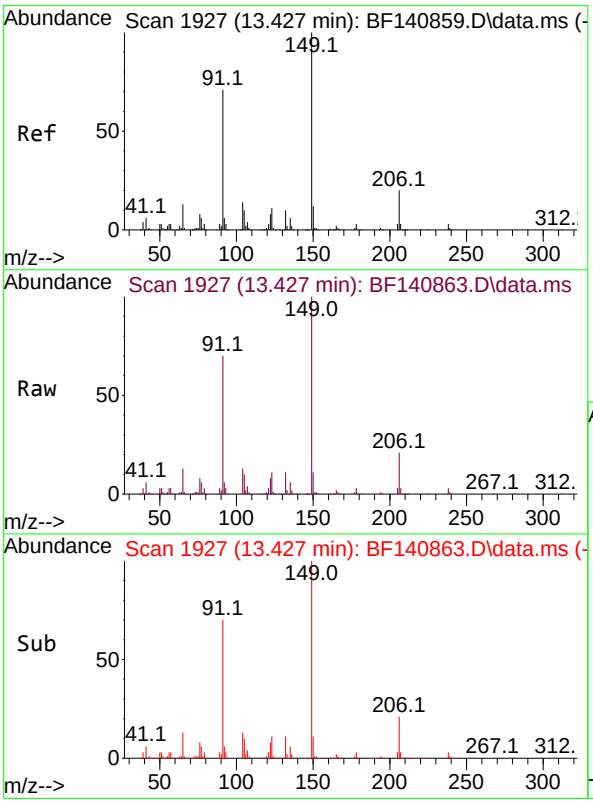
#79
Terphenyl-d14
Concen: 75.108 ng
RT: 12.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:244 Resp: 1126061

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.3	8.2	12.2

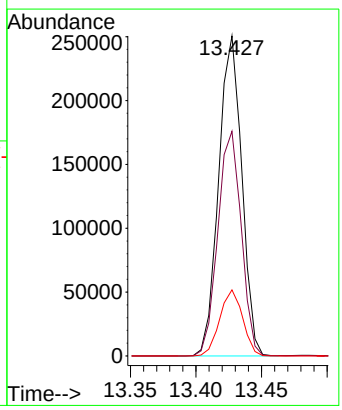


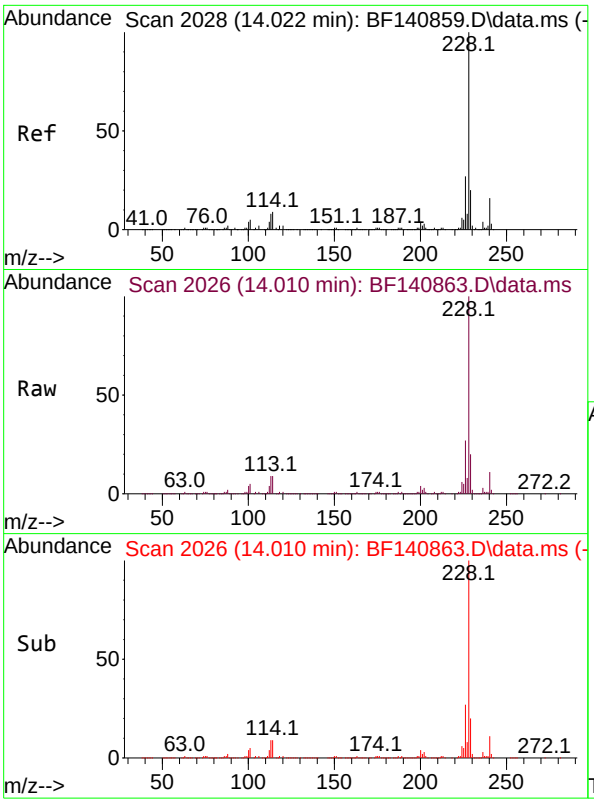


#80
Butylbenzylphthalate
Concen: 39.692 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:149 Resp: 307036

Ion	Ratio	Lower	Upper
149	100		
91	70.2	56.7	85.1
206	20.6	16.4	24.6



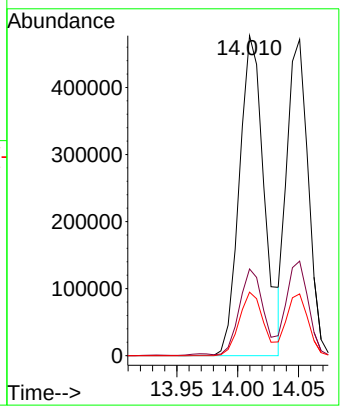


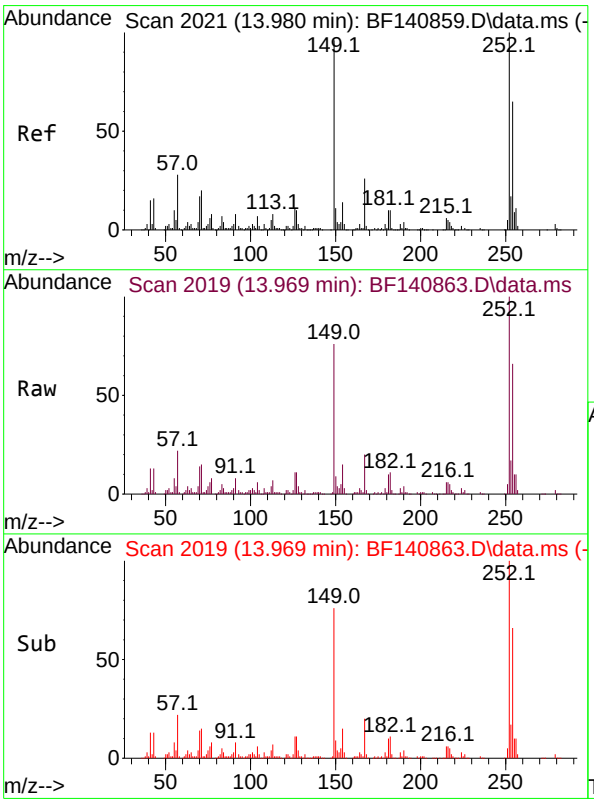
#81
Benzo(a)anthracene
Concen: 40.525 ng
RT: 14.010 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:228 Resp: 679017

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.8	15.8	23.8

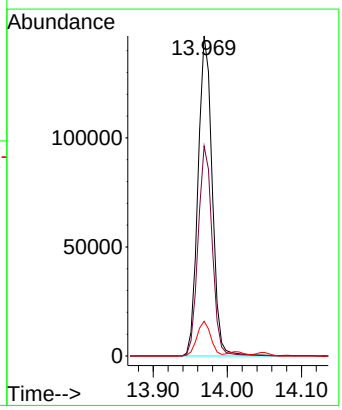


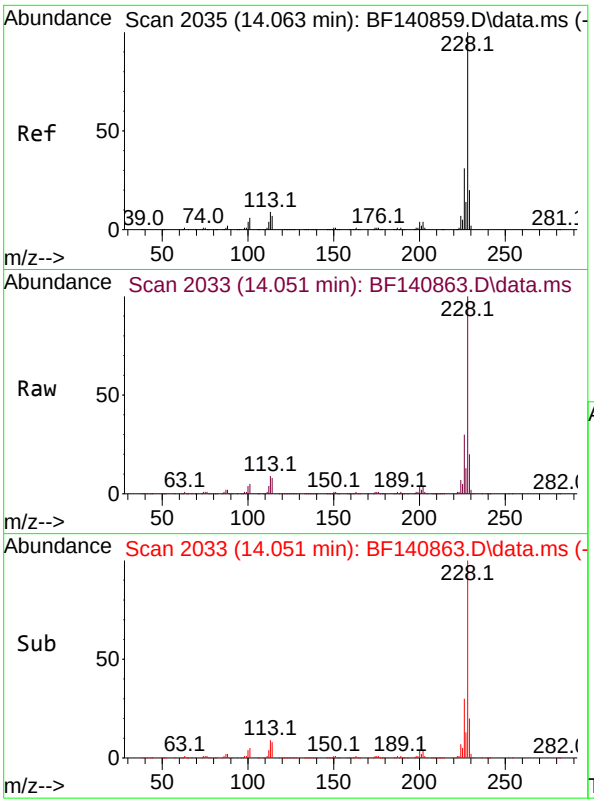


#82
3,3'-Dichlorobenzidine
Concen: 38.459 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:252 Resp: 194418

Ion	Ratio	Lower	Upper
252	100		
254	65.6	52.3	78.5
126	10.8	8.4	12.6



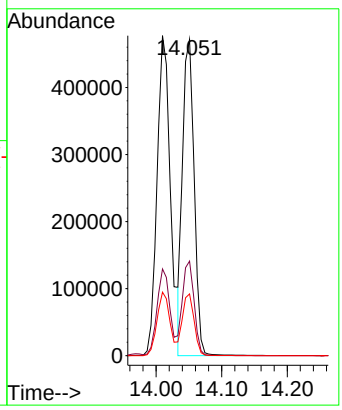


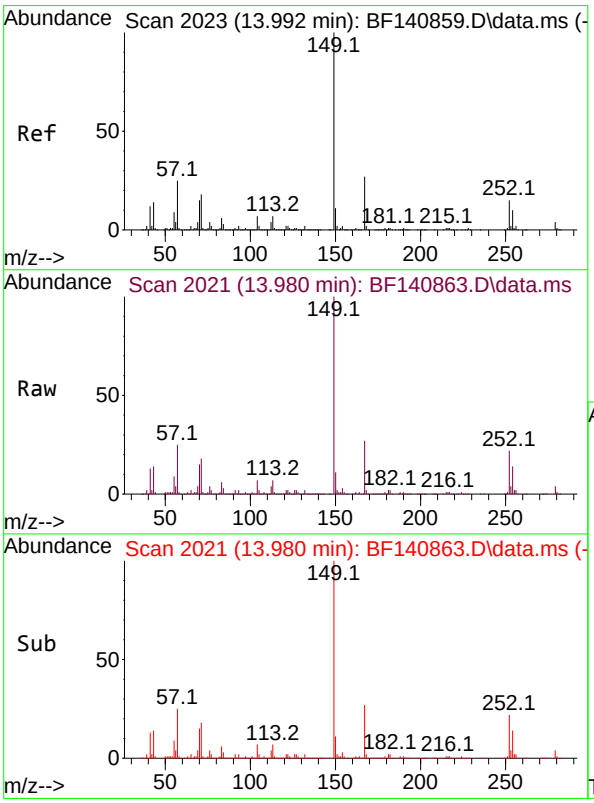
#83
Chrysene
Concen: 37.695 ng
RT: 14.051 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:228 Resp: 574336

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.5	16.0	24.0

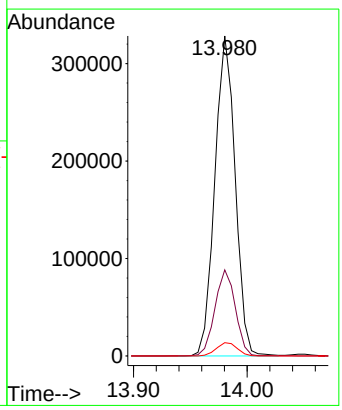


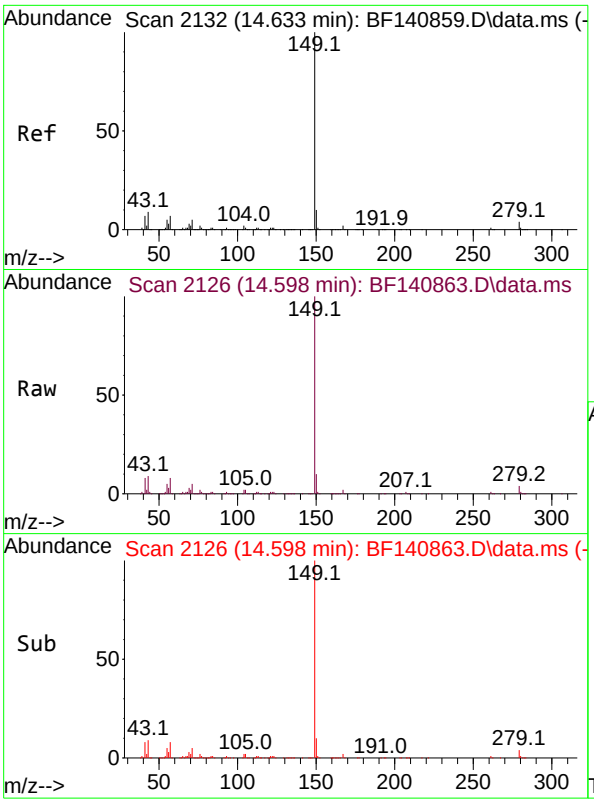


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.982 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.012 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:149 Resp: 408768

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.8	32.8
279	4.2	3.5	5.3



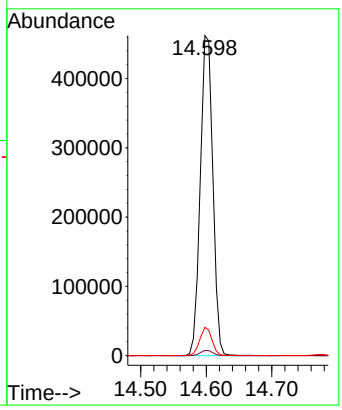


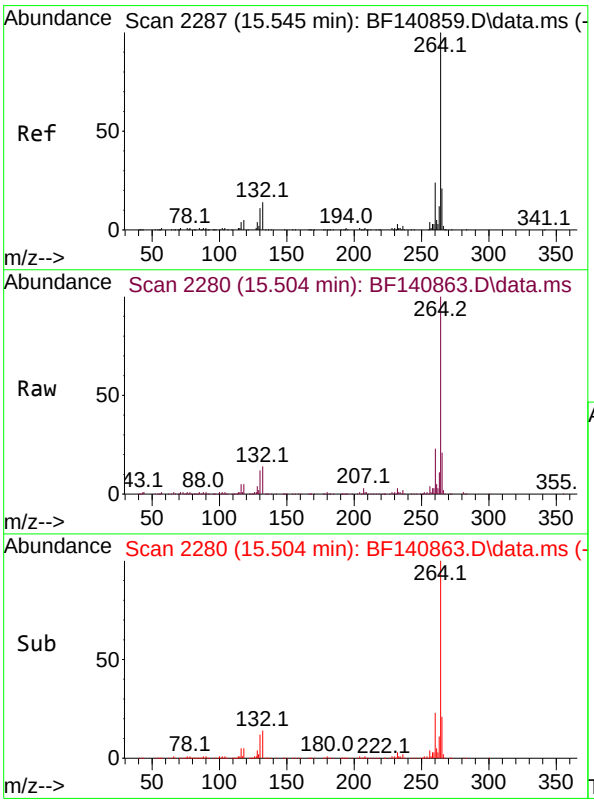
#85
Di-n-octyl phthalate
Concen: 40.907 ng
RT: 14.598 min Scan# 21
Delta R.T. -0.035 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:149 Resp: 617289

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	8.9	7.0	10.6

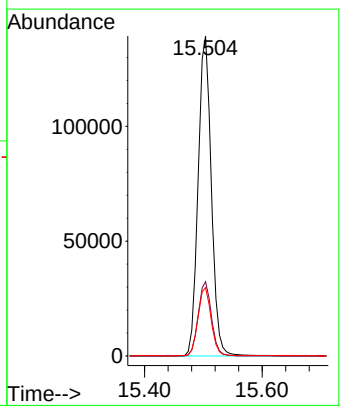


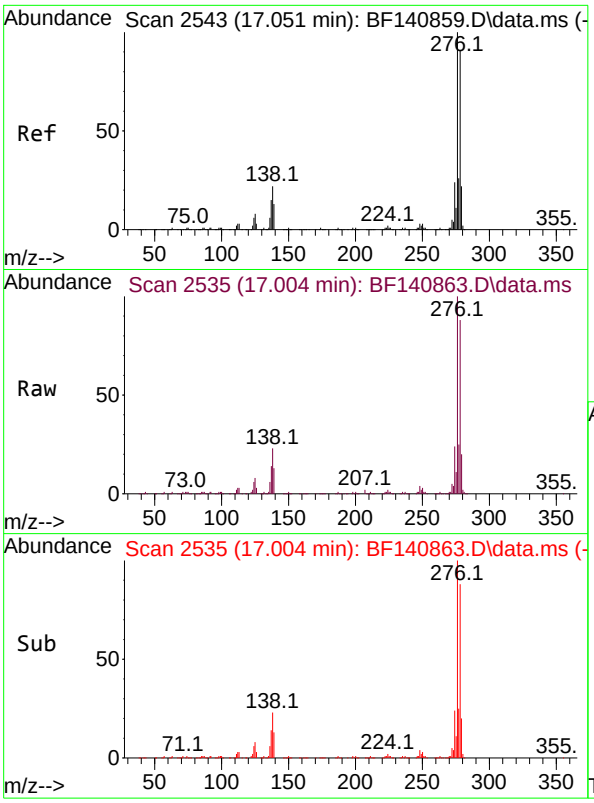


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2280
Delta R.T. -0.041 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:264 Resp: 217277

Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.1	28.7
265	21.4	17.0	25.4



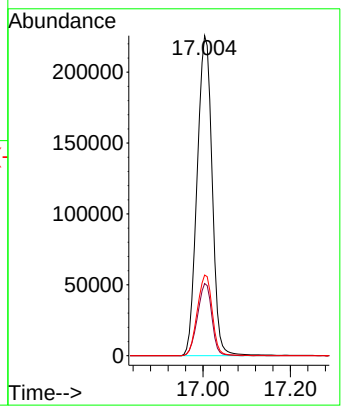


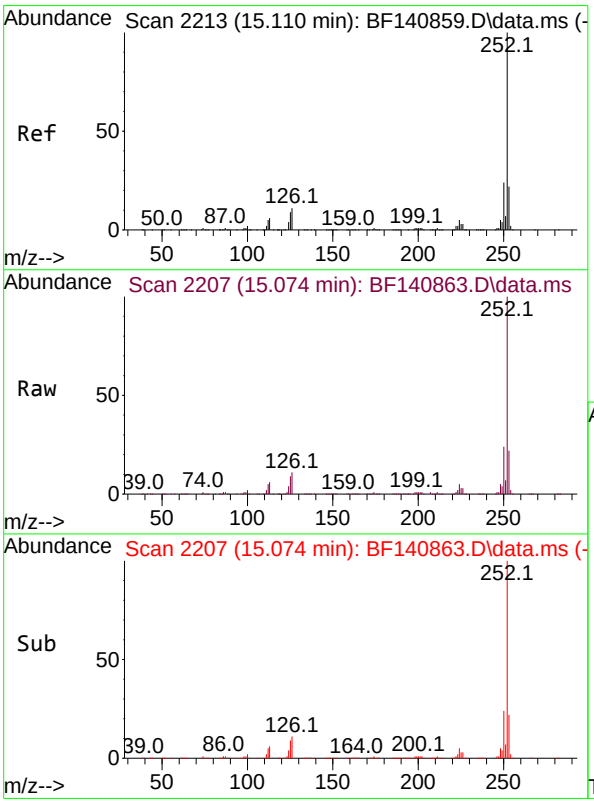
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.762 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:276 Resp: 539135

Ion	Ratio	Lower	Upper
276	100		
138	21.4	16.9	25.3
277	25.0	20.2	30.4

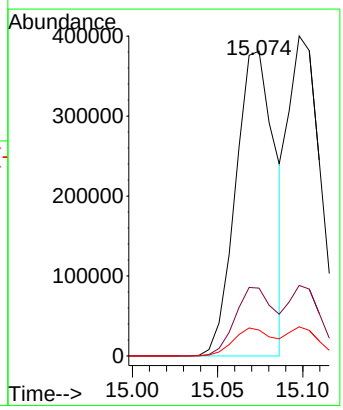


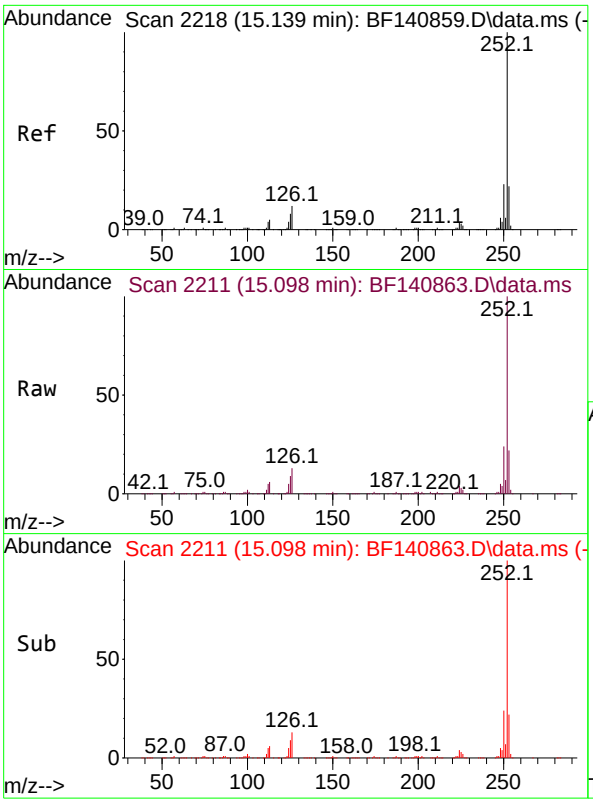


#88
Benzo(b)fluoranthene
Concen: 40.410 ng
RT: 15.074 min Scan# 2207
Delta R.T. -0.035 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:252 Resp: 609480

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	8.5	7.0	10.4



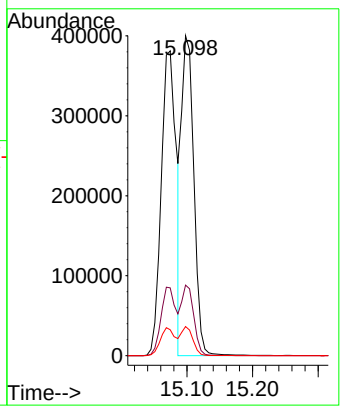


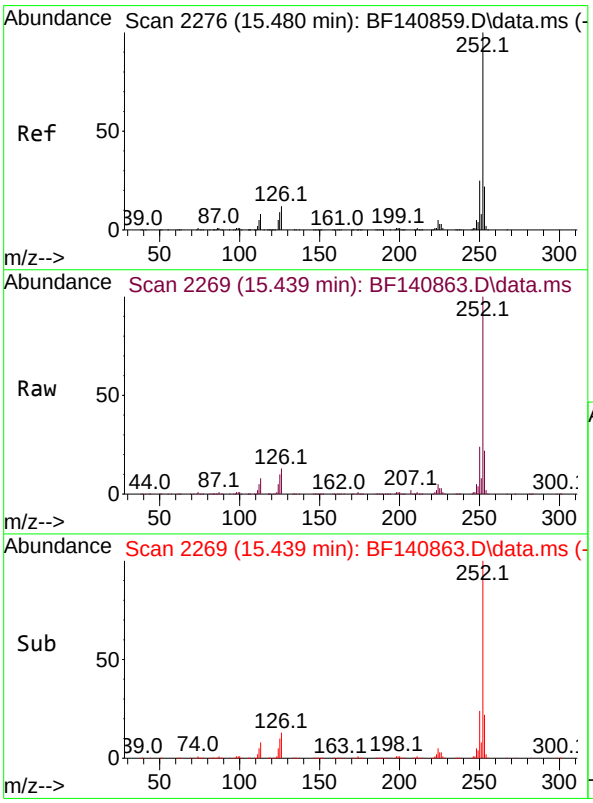
#89
Benzo(k)fluoranthene
Concen: 40.601 ng
RT: 15.098 min Scan# 2
Delta R.T. -0.041 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:252 Resp: 525272

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.1	6.8	10.2

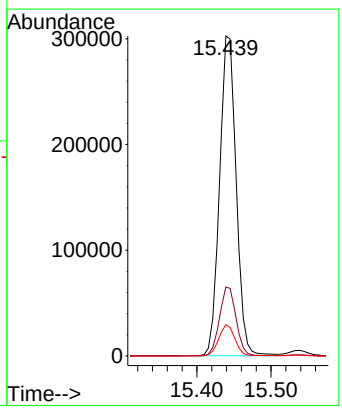


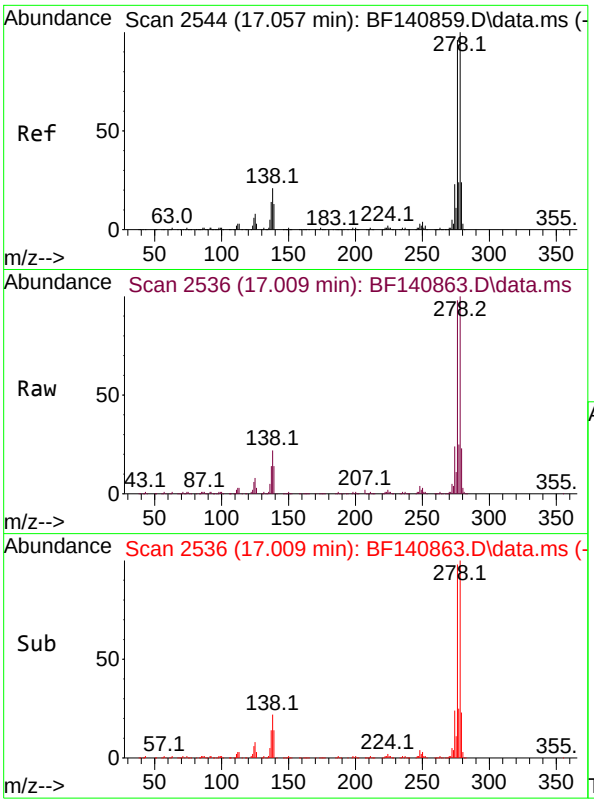


#90
Benzo(a)pyrene
Concen: 39.873 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.041 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:252 Resp: 470896

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	9.8	7.5	11.3



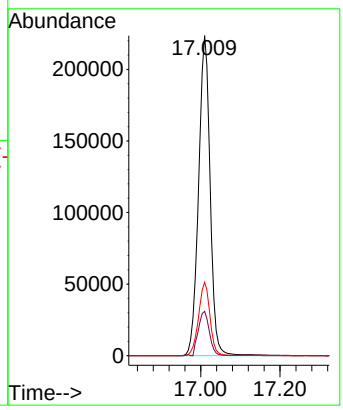


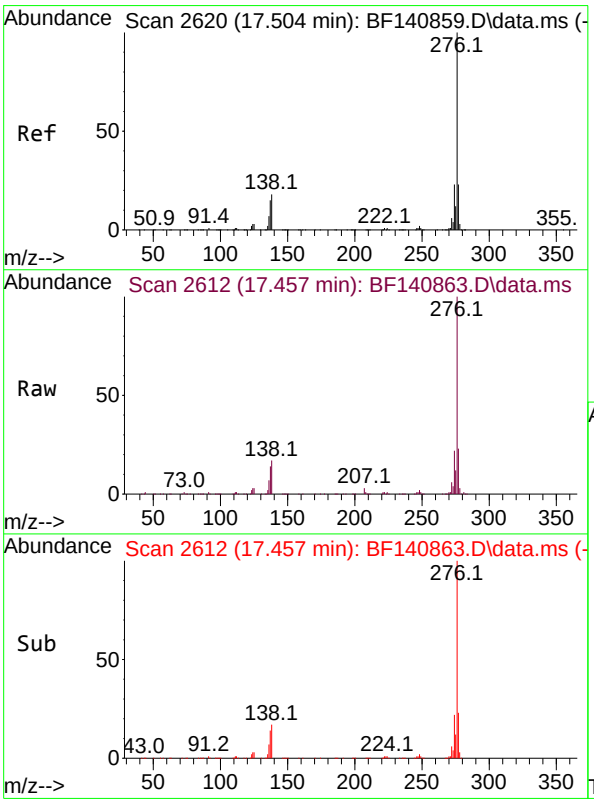
#91
Dibenzo(a,h)anthracene
Concen: 40.237 ng
RT: 17.009 min Scan# 2
Delta R.T. -0.047 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Tgt Ion:278 Resp: 451973

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	22.9	19.2	28.8

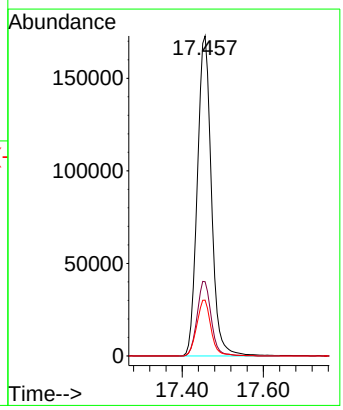




#92
Benzo(g,h,i)perylene
Concen: 36.565 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.047 min
Lab File: BF140863.D
Acq: 16 Dec 2024 16:41

Tgt Ion:276 Resp: 418030

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.7	28.1
138	17.4	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	113	0.00
2		1,4-Dioxane	0.523	0.423	19.1	95	-0.02
3		Pyridine	1.212	1.057	12.8	98	-0.02
4		n-Nitrosodimethylamine	0.611	0.519	15.1	97	-0.02
5	S	2-Fluorophenol	1.215	1.157	4.8	109	0.00
6		Aniline	1.376	1.364	0.9	112	0.00
7	S	Phenol-d6	1.609	1.533	4.7	111	0.00
8		2-Chlorophenol	1.325	1.284	3.1	112	0.00
9		Benzaldehyde	0.892	0.903	-1.2	118	0.00
10	C	Phenol	1.668	1.613	3.3	112	0.00
11		bis(2-Chloroethyl)ether	1.244	1.228	1.3	113	0.00
12		1,3-Dichlorobenzene	1.510	1.476	2.3	114	0.00
13	C	1,4-Dichlorobenzene	1.532	1.523	0.6	115	0.00
14		1,2-Dichlorobenzene	1.446	1.429	1.2	113	0.00
15		Benzyl Alcohol	1.151	1.144	0.6	113	0.00
16		2,2'-oxybis(1-Chloropropane	1.465	1.501	-2.5	118	0.00
17		2-Methylphenol	1.058	1.063	-0.5	116	0.00
18		Hexachloroethane	0.570	0.564	1.1	115	0.00
19	P	n-Nitroso-di-n-propylamine	0.965	0.962	0.3	118	0.00
20		3+4-Methylphenols	1.403	1.402	0.1	117	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00
22		Acetophenone	0.500	0.457	8.6	114	0.00
23	S	Nitrobenzene-d5	0.400	0.377	5.8	118	0.00
24		Nitrobenzene	0.410	0.387	5.6	119	0.00
25		Isophorone	0.670	0.640	4.5	121	0.00
26	C	2-Nitrophenol	0.189	0.191	-1.1	125	0.00
27		2,4-Dimethylphenol	0.220	0.223	-1.4	125	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.422	-1.0	125	0.00
29	C	2,4-Dichlorophenol	0.304	0.302	0.7	124	0.00
30		1,2,4-Trichlorobenzene	0.349	0.334	4.3	120	0.00
31		Naphthalene	1.099	1.057	3.8	122	0.00
32		Benzoic acid	0.209	0.221	-5.7	129	0.00
33		4-Chloroaniline	0.365	0.343	6.0	117	0.00
34	C	Hexachlorobutadiene	0.235	0.214	8.9	113	0.00
35		Caprolactam	0.091	0.082	9.9	111	0.00
36	C	4-Chloro-3-methylphenol	0.342	0.304	11.1	111	0.00
37		2-Methylnaphthalene	0.727	0.678	6.7	116	0.00
38		1-Methylnaphthalene	0.719	0.664	7.6	116	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
40		1,2,4,5-Tetrachlorobenzene	0.615	0.594	3.4	115	0.00
41	P	Hexachlorocyclopentadiene	0.153	0.132	13.7	105	0.00
42	S	2,4,6-Tribromophenol	0.237	0.200	15.6	94	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.371	1.3	115	0.00
44		2,4,5-Trichlorophenol	0.414	0.413	0.2	117	0.00
45	S	2-Fluorobiphenyl	1.455	1.372	5.7	113	0.00
46		1,1'-Biphenyl	1.590	1.527	4.0	114	0.00
47		2-Chloronaphthalene	1.217	1.111	8.7	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	0.367	0.349	4.9	110	0.00
49		Acenaphthylene	1.788	1.683	5.9	109	0.00
50		Dimethylphthalate	1.410	1.294	8.2	107	0.00
51		2,6-Dinitrotoluene	0.322	0.303	5.9	109	0.00
52	C	Acenaphthene	1.142	1.093	4.3	111	0.00
53		3-Nitroaniline	0.320	0.318	0.6	113	0.00
54	P	2,4-Dinitrophenol	0.132	0.125	5.3	105	0.00
55		Dibenzofuran	1.770	1.642	7.2	107	0.00
56	P	4-Nitrophenol	0.150	0.157	-4.7	107	0.00
57		2,4-Dinitrotoluene	0.424	0.404	4.7	109	0.00
58		Fluorene	1.460	1.364	6.6	106	0.00
59		2,3,4,6-Tetrachlorophenol	0.337	0.357	-5.9	114	0.00
60		Diethylphthalate	1.462	1.386	5.2	109	0.00
61		4-Chlorophenyl-phenylether	0.733	0.686	6.4	108	0.00
62		4-Nitroaniline	0.334	0.325	2.7	108	0.00
63		Azobenzene	1.375	1.328	3.4	109	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	106	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.118	-4.4	107	0.00
66	c	n-Nitrosodiphenylamine	0.615	0.610	0.8	108	0.00
67		4-Bromophenyl-phenylether	0.224	0.203	9.4	98	0.00
68		Hexachlorobenzene	0.254	0.235	7.5	101	0.00
69		Atrazine	0.172	0.158	8.1	99	0.00
70	C	Pentachlorophenol	0.093	0.090	3.2	97	0.00
71		Phenanthrene	1.028	0.979	4.8	105	0.00
72		Anthracene	1.013	0.955	5.7	104	0.00
73		Carbazole	0.992	0.803	19.1	89	0.00
74		Di-n-butylphthalate	1.164	0.983	15.5	92	0.00
75	C	Fluoranthene	1.184	1.012	14.5	95	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	98	-0.01
77		Benzidine	0.408	0.374	8.3	91	0.00
78		Pyrene	1.779	1.677	5.7	97	0.00
79	S	Terphenyl-d14	1.268	1.191	6.1	97	0.00
80		Butylbenzylphthalate	0.654	0.649	0.8	99	0.00
81		Benzo(a)anthracene	1.417	1.436	-1.3	104	-0.01
82		3,3'-Dichlorobenzidine	0.428	0.411	4.0	98	-0.01
83		Chrysene	1.289	1.215	5.7	94	-0.01
84		Bis(2-ethylhexyl)phthalate	0.844	0.865	-2.5	103	-0.01
85	c	Di-n-octyl phthalate	1.277	1.306	-2.3	105	-0.04
86	I	Perylene-d12	1.000	1.000	0.0	107	-0.04
87		Indeno(1,2,3-cd)pyrene	1.248	1.241	0.6	105	-0.05
88		Benzo(b)fluoranthene	1.388	1.403	-1.1	116	-0.04
89		Benzo(k)fluoranthene	1.191	1.209	-1.5	106	-0.04
90	C	Benzo(a)pyrene	1.087	1.084	0.3	108	-0.04
91		Dibenzo(a,h)anthracene	1.034	1.040	-0.6	105	-0.05
92		Benzo(g,h,i)perylene	1.052	0.962	8.6	96	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	113	0.00
2		1,4-Dioxane	40.000	32.360	19.1	95	-0.02
3		Pyridine	40.000	34.882	12.8	98	-0.02
4		n-Nitrosodimethylamine	40.000	33.984	15.0	97	-0.02
5	S	2-Fluorophenol	80.000	76.184	4.8	109	0.00
6		Aniline	40.000	39.644	0.9	112	0.00
7	S	Phenol-d6	80.000	76.229	4.7	111	0.00
8		2-Chlorophenol	40.000	38.761	3.1	112	0.00
9		Benzaldehyde	40.000	40.491	-1.2	118	0.00
10	C	Phenol	40.000	38.683	3.3	112	0.00
11		bis(2-Chloroethyl)ether	40.000	39.504	1.2	113	0.00
12		1,3-Dichlorobenzene	40.000	39.111	2.2	114	0.00
13	C	1,4-Dichlorobenzene	40.000	39.745	0.6	115	0.00
14		1,2-Dichlorobenzene	40.000	39.527	1.2	113	0.00
15		Benzyl Alcohol	40.000	39.782	0.5	113	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.970	-2.4	118	0.00
17		2-Methylphenol	40.000	40.189	-0.5	116	0.00
18		Hexachloroethane	40.000	39.568	1.1	115	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.861	0.3	118	0.00
20		3+4-Methylphenols	40.000	39.995	0.0	117	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	123	0.00
22		Acetophenone	40.000	36.536	8.7	114	0.00
23	S	Nitrobenzene-d5	80.000	75.408	5.7	118	0.00
24		Nitrobenzene	40.000	37.836	5.4	119	0.00
25		Isophorone	40.000	38.231	4.4	121	0.00
26	C	2-Nitrophenol	40.000	40.407	-1.0	125	0.00
27		2,4-Dimethylphenol	40.000	40.466	-1.2	125	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.334	-0.8	125	0.00
29	C	2,4-Dichlorophenol	40.000	39.658	0.9	124	0.00
30		1,2,4-Trichlorobenzene	40.000	38.332	4.2	120	0.00
31		Naphthalene	40.000	38.473	3.8	122	0.00
32		Benzoic acid	40.000	42.351	-5.9	129	0.00
33		4-Chloroaniline	40.000	37.650	5.9	117	0.00
34	C	Hexachlorobutadiene	40.000	36.462	8.8	113	0.00
35		Caprolactam	40.000	36.113	9.7	111	0.00
36	C	4-Chloro-3-methylphenol	40.000	35.477	11.3	111	0.00
37		2-Methylnaphthalene	40.000	37.337	6.7	116	0.00
38		1-Methylnaphthalene	40.000	36.969	7.6	116	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	113	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.668	3.3	115	0.00
41	P	Hexachlorocyclopentadiene	40.000	37.672	5.8	105	0.00
42	S	2,4,6-Tribromophenol	80.000	67.791	15.3	94	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.419	1.5	115	0.00
44		2,4,5-Trichlorophenol	40.000	39.895	0.3	117	0.00
45	S	2-Fluorobiphenyl	80.000	75.432	5.7	113	0.00
46		1,1'-Biphenyl	40.000	38.412	4.0	114	0.00
47		2-Chloronaphthalene	40.000	36.522	8.7	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	37.990	5.0	110	0.00
49		Acenaphthylene	40.000	37.651	5.9	109	0.00
50		Dimethylphthalate	40.000	36.704	8.2	107	0.00
51		2,6-Dinitrotoluene	40.000	37.595	6.0	109	0.00
52	C	Acenaphthene	40.000	38.275	4.3	111	0.00
53		3-Nitroaniline	40.000	39.722	0.7	113	0.00
54	P	2,4-Dinitrophenol	40.000	35.766	10.6	105	0.00
55		Dibenzofuran	40.000	37.113	7.2	107	0.00
56	P	4-Nitrophenol	40.000	38.834	2.9	107	0.00
57		2,4-Dinitrotoluene	40.000	38.076	4.8	109	0.00
58		Fluorene	40.000	37.370	6.6	106	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.405	-6.0	114	0.00
60		Diethylphthalate	40.000	37.926	5.2	109	0.00
61		4-Chlorophenyl-phenylether	40.000	37.398	6.5	108	0.00
62		4-Nitroaniline	40.000	38.912	2.7	108	0.00
63		Azobenzene	40.000	38.657	3.4	109	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	106	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.637	-4.1	107	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.710	0.7	108	0.00
67		4-Bromophenyl-phenylether	40.000	36.329	9.2	98	0.00
68		Hexachlorobenzene	40.000	37.132	7.2	101	0.00
69		Atrazine	40.000	36.838	7.9	99	0.00
70	C	Pentachlorophenol	40.000	38.679	3.3	97	0.00
71		Phenanthrene	40.000	38.078	4.8	105	0.00
72		Anthracene	40.000	37.720	5.7	104	0.00
73		Carbazole	40.000	32.390	19.0	89	0.00
74		Di-n-butylphthalate	40.000	33.782	15.5	92	0.00
75	C	Fluoranthene	40.000	34.163	14.6	95	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	98	-0.01
77		Benzidine	40.000	36.642	8.4	91	0.00
78		Pyrene	40.000	37.714	5.7	97	0.00
79	S	Terphenyl-d14	80.000	75.108	6.1	97	0.00
80		Butylbenzylphthalate	40.000	39.692	0.8	99	0.00
81		Benzo(a)anthracene	40.000	40.525	-1.3	104	-0.01
82		3,3'-Dichlorobenzidine	40.000	38.459	3.9	98	-0.01
83		Chrysene	40.000	37.695	5.8	94	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	40.982	-2.5	103	-0.01
85	c	Di-n-octyl phthalate	40.000	40.907	-2.3	105	-0.04
86	I	Perylene-d12	20.000	20.000	0.0	107	-0.04
87		Indeno(1,2,3-cd)pyrene	40.000	39.762	0.6	105	-0.05
88		Benzo(b)fluoranthene	40.000	40.410	-1.0	116	-0.04
89		Benzo(k)fluoranthene	40.000	40.601	-1.5	106	-0.04
90	C	Benzo(a)pyrene	40.000	39.873	0.3	108	-0.04
91		Dibenzo(a,h)anthracene	40.000	40.237	-0.6	105	-0.05
92		Benzo(g,h,i)perylene	40.000	36.565	8.6	96	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140863.D
Acq On : 16 Dec 2024 16:41
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF121624

Quant Time: Dec 16 17:02:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG No.: P5306

Instrument ID: BNA_F Calibration Date/Time: 12/20/2024 11:15

Lab File ID: BF140942.D Init. Calib. Date(s): 12/16/2024 12/16/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:13 16:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.215	1.104		-9.1	
Phenol-d6	1.609	1.494		-7.1	
Nitrobenzene-d5	0.400	0.385		-3.8	
Naphthalene	1.099	1.079		-1.8	
2-Methylnaphthalene	0.727	0.696		-4.3	
2-Fluorobiphenyl	1.455	1.340		-7.9	
Acenaphthylene	1.788	1.741		-2.6	
Acenaphthene	1.142	1.107		-3.1	20.0
Fluorene	1.460	1.356		-7.1	
2,4,6-Tribromophenol	0.237	0.214		-9.7	
Phenanthrene	1.028	0.981		-4.6	
Anthracene	1.013	0.983		-3.0	
Fluoranthene	1.184	1.083		-8.5	20.0
Pyrene	1.779	1.904		7.0	
Terphenyl-d14	1.268	1.393		9.9	
Benzo(a)anthracene	1.417	1.356		-4.3	
Chrysene	1.289	1.279		-0.8	
Benzo(b)fluoranthene	1.388	1.319		-5.0	
Benzo(k)fluoranthene	1.191	1.123		-5.7	
Benzo(a)pyrene	1.087	1.066		-1.9	20.0
Indeno(1,2,3-cd)pyrene	1.248	1.605		28.6	
Dibenzo(a,h)anthracene	1.034	1.335		29.1	
Benzo(g,h,i)perylene	1.052	1.276		21.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	74814	20.000	ng		0.00
21) Naphthalene-d8	8.134	136	271589	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	162319	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	282660	20.000	ng		0.00
76) Chrysene-d12	14.033	240	164316	20.000	ng		0.00
86) Perylene-d12	15.533	264	129329	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	330518	72.726	ng		0.00
7) Phenol-d6	6.504	99	446954	74.251	ng		0.00
23) Nitrobenzene-d5	7.422	82	418009	77.004	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	139243	72.531	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	869766	73.670	ng		0.00
79) Terphenyl-d14	12.963	244	915592	87.865	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.616	88	75034	38.331	ng		95
3) Pyridine	3.399	79	176528	38.939	ng		96
4) n-Nitrosodimethylamine	3.357	42	81320	35.583	ng		89
6) Aniline	6.522	93	192218	37.347	ng		98
8) 2-Chlorophenol	6.645	128	193264	38.996	ng		98
9) Benzaldehyde	6.410	77	119045	35.692	ng		97
10) Phenol	6.522	94	233567	37.438	ng		99
11) bis(2-Chloroethyl)ether	6.587	93	173020	37.188	ng		99
12) 1,3-Dichlorobenzene	6.792	146	220709	39.082	ng		97
13) 1,4-Dichlorobenzene	6.869	146	219984	38.376	ng		99
14) 1,2-Dichlorobenzene	7.022	146	208631	38.575	ng		98
15) Benzyl Alcohol	7.004	79	161378	37.495	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.122	45	197110	35.963	ng		85
17) 2-Methylphenol	7.122	107	150732	38.095	ng		99
18) Hexachloroethane	7.357	117	77896	36.502	ng		97
19) n-Nitroso-di-n-propyla...	7.269	70	128495	35.587	ng		97
20) 3+4-Methylphenols	7.275	107	202109	38.521	ng	#	85
22) Acetophenone	7.263	105	263844	38.835	ng		95
24) Nitrobenzene	7.439	77	207460	37.305	ng		95
25) Isophorone	7.675	82	346209	38.063	ng		99
26) 2-Nitrophenol	7.751	139	107352	41.913	ng		94
27) 2,4-Dimethylphenol	7.792	122	120407	40.254	ng		97
28) bis(2-Chloroethoxy)met...	7.881	93	220781	38.864	ng		98
29) 2,4-Dichlorophenol	8.004	162	162546	39.361	ng		98
30) 1,2,4-Trichlorobenzene	8.075	180	187702	39.649	ng		98
31) Naphthalene	8.151	128	585851	39.270	ng		100
32) Benzoic acid	7.951	122	98174	34.606	ng		96
33) 4-Chloroaniline	8.210	127	194369	39.228	ng		97
34) Hexachlorobutadiene	8.263	225	121955	38.289	ng		100
35) Caprolactam	8.598	113	45564	37.061	ng		92
36) 4-Chloro-3-methylphenol	8.704	107	173656	37.361	ng		100
37) 2-Methylnaphthalene	8.845	142	377796	38.282	ng		99
38) 1-Methylnaphthalene	8.945	142	368550	37.761	ng		98
40) 1,2,4,5-Tetrachloroben...	9.010	216	186337	37.349	ng		99
41) Hexachlorocyclopentadiene	8.992	237	38088	34.773	ng		98
43) 2,4,6-Trichlorophenol	9.134	196	110669	36.226	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	119664	35.638	ng	98
46) 1,1'-Biphenyl	9.310	154	483766	37.480	ng	99
47) 2-Chloronaphthalene	9.334	162	374124	37.889	ng	100
48) 2-Nitroaniline	9.439	65	105588	35.406	ng	92
49) Acenaphthylene	9.751	152	565101	38.943	ng	100
50) Dimethylphthalate	9.604	163	425243	37.159	ng	99
51) 2,6-Dinitrotoluene	9.681	165	103210	39.451	ng	92
52) Acenaphthene	9.922	154	359395	38.772	ng	100
53) 3-Nitroaniline	9.857	138	102644	39.535	ng	93
54) 2,4-Dinitrophenol	9.981	184	41330	36.272	ng	92
55) Dibenzofuran	10.092	168	545976	38.012	ng	99
56) 4-Nitrophenol	10.051	139	46328	35.773	ng	93
57) 2,4-Dinitrotoluene	10.092	165	132579	38.516	ng	94
58) Fluorene	10.439	166	440079	37.139	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	101821	37.214	ng	91
60) Diethylphthalate	10.304	149	426443	35.936	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	221428	37.200	ng	98
62) 4-Nitroaniline	10.475	138	100590m	37.076	ng	
63) Azobenzene	10.586	77	384375	34.454	ng	95
65) 4,6-Dinitro-2-methylph...	10.510	198	64499	40.269	ng	95
66) n-Nitrosodiphenylamine	10.545	169	371501	42.748	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	129825	41.055	ng	96
68) Hexachlorobenzene	10.992	284	149493	41.697	ng	96
69) Atrazine	11.075	200	81196	33.453	ng	97
70) Pentachlorophenol	11.198	266	43633	33.287	ng	97
71) Phenanthrene	11.404	178	554743	38.164	ng	99
72) Anthracene	11.457	178	555785	38.826	ng	99
73) Carbazole	11.616	167	539092	38.449	ng	100
74) Di-n-butylphthalate	11.927	149	665945	40.470	ng	99
75) Fluoranthene	12.598	202	612458	36.586	ng	99
77) Benzidine	12.722	184	115361	34.399	ng	99
78) Pyrene	12.827	202	625636	42.817	ng	99
80) Butylbenzylphthalate	13.433	149	207238	38.545	ng	96
81) Benzo(a)anthracene	14.021	228	445495	38.254	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	128185	36.483	ng	97
83) Chrysene	14.063	228	420365	39.695	ng	99
84) Bis(2-ethylhexyl)phtha...	13.986	149	259339	37.409	ng	100
85) Di-n-octyl phthalate	14.616	149	336272	32.062	ng	98
87) Indeno(1,2,3-cd)pyrene	17.051	276	415125	51.437	ng	99
88) Benzo(b)fluoranthene	15.098	252	341178	38.004	ng	99
89) Benzo(k)fluoranthene	15.121	252	290595	37.736	ng	99
90) Benzo(a)pyrene	15.468	252	275845	39.241	ng	99
91) Dibenzo(a,h)anthracene	17.051	278	345181	51.627	ng	98
92) Benzo(g,h,i)perylene	17.509	276	330062	48.503	ng	99

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

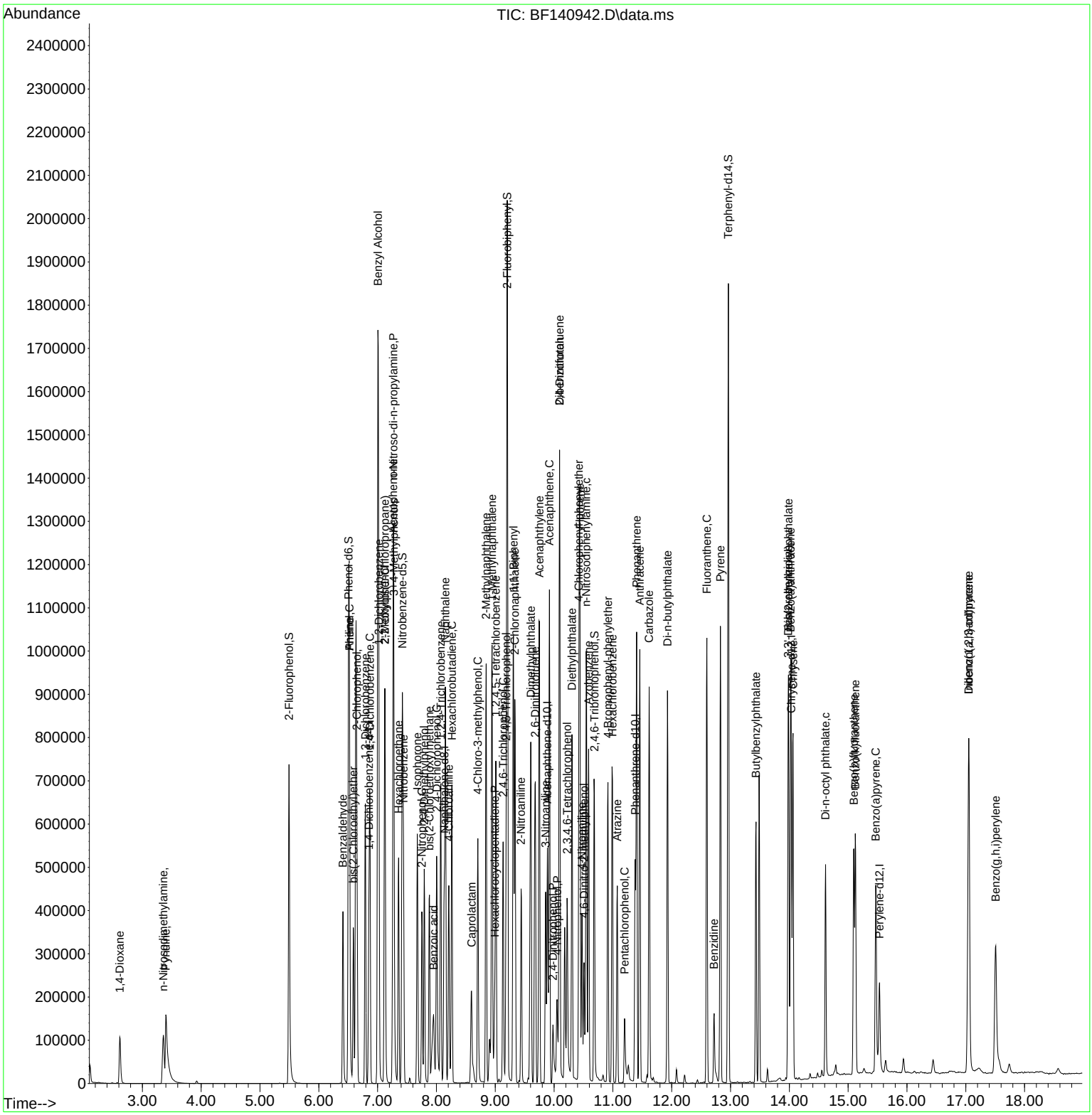
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

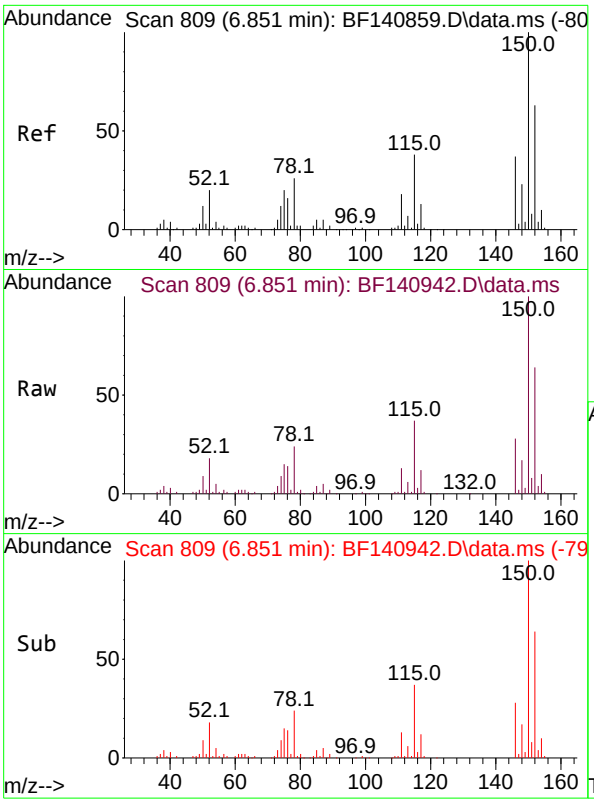
Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

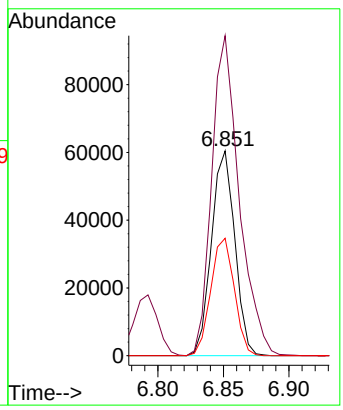




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

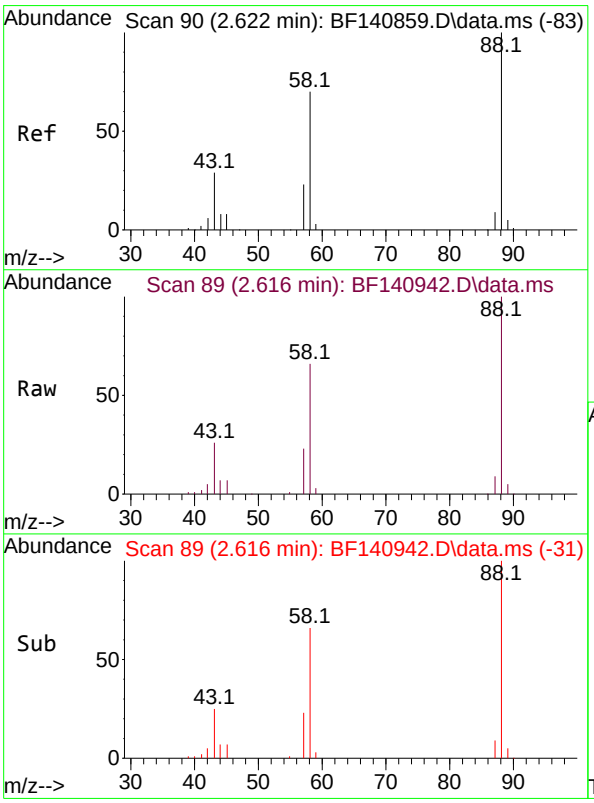
Tgt Ion:152 Resp: 7481

Ion	Ratio	Lower	Upper
152	100		
150	156.2	127.9	191.9
115	57.3	48.0	72.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

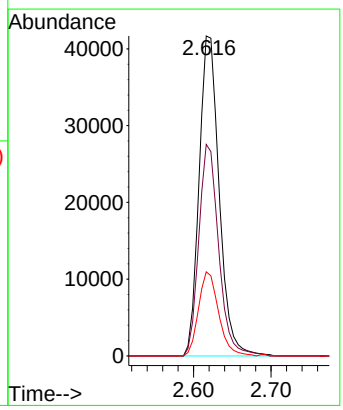
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

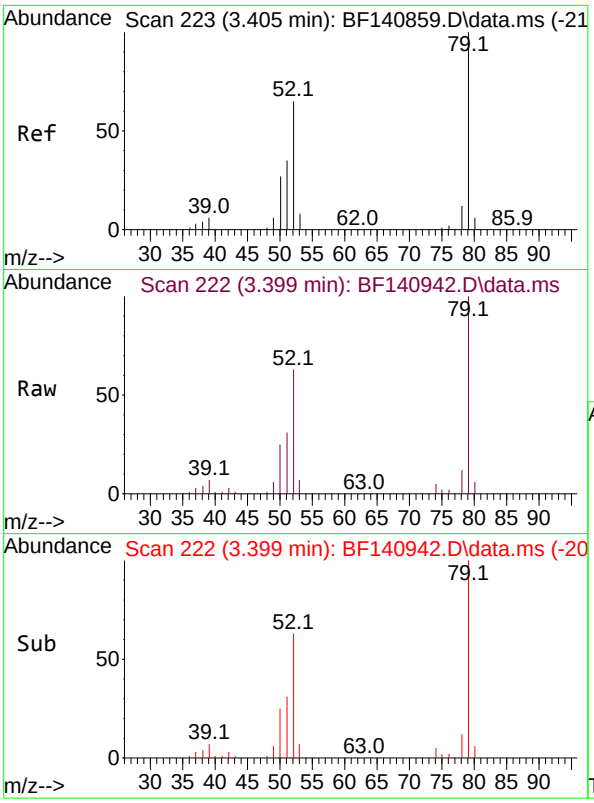


#2
1,4-Dioxane
Concen: 38.331 ng
RT: 2.616 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 88 Resp: 75034

Ion	Ratio	Lower	Upper
88	100		
58	65.4	55.8	83.8
43	26.3	22.7	34.1

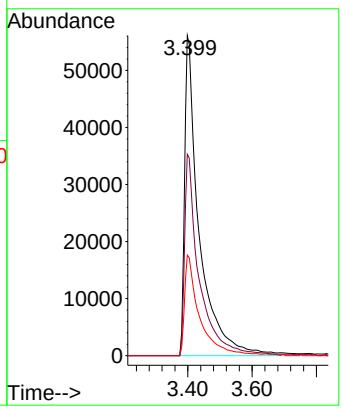




#3
Pyridine
Concen: 38.939 ng
RT: 3.399 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 79 Resp: 17652

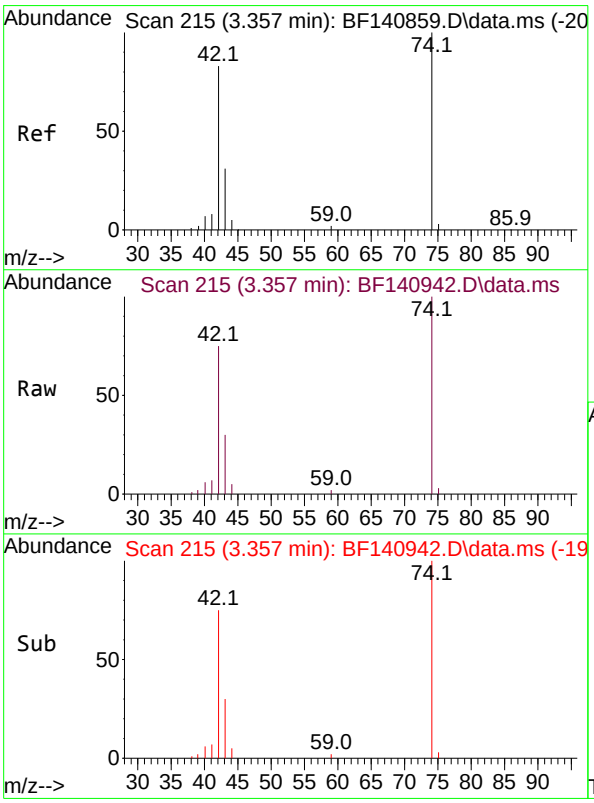
Ion	Ratio	Lower	Upper
79	100		
52	62.9	51.7	77.5
51	31.4	28.2	42.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

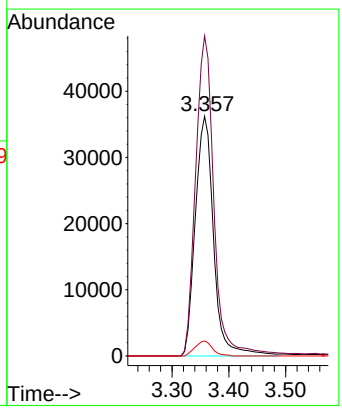
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

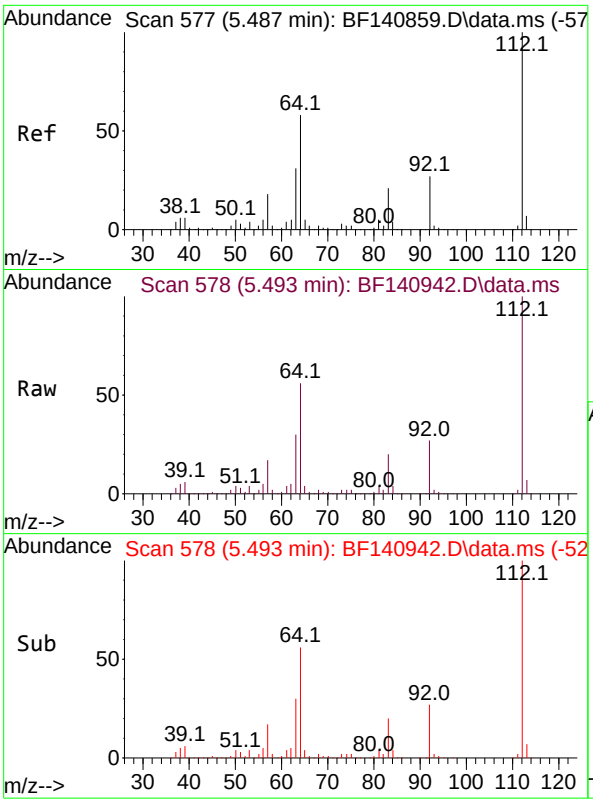


#4
n-Nitrosodimethylamine
Concen: 35.583 ng
RT: 3.357 min Scan# 215
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 42 Resp: 81320

Ion	Ratio	Lower	Upper
42	100		
74	133.5	96.9	145.3
44	6.3	4.4	6.6

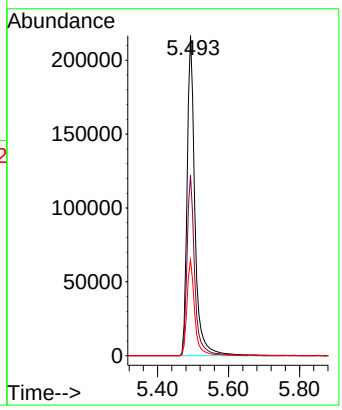




#5
2-Fluorophenol
Concen: 72.726 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:112 Resp: 33051

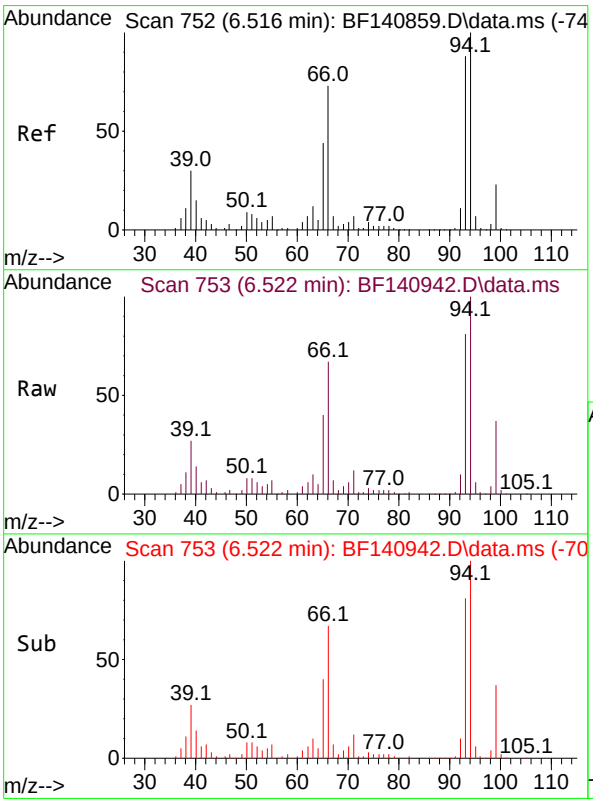
Ion	Ratio	Lower	Upper
112	100		
64	56.4	46.1	69.1
63	29.9	24.9	37.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

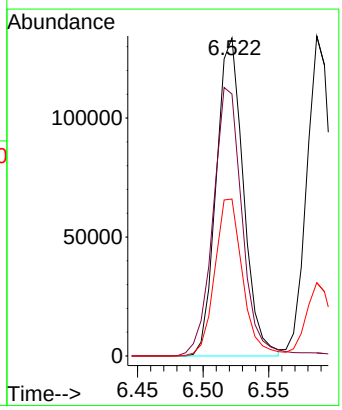
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

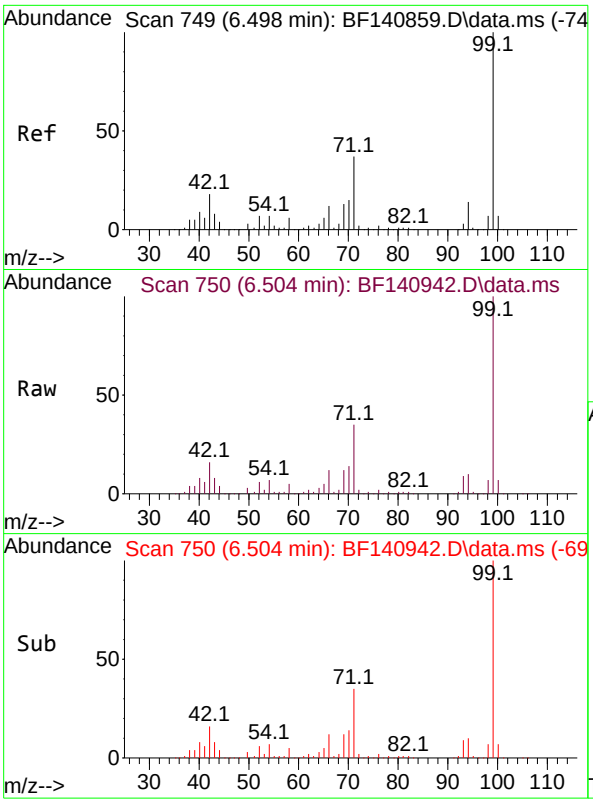


#6
Aniline
Concen: 37.347 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 93 Resp: 192218

Ion	Ratio	Lower	Upper
93	100		
66	82.4	67.0	100.4
65	49.4	40.4	60.6

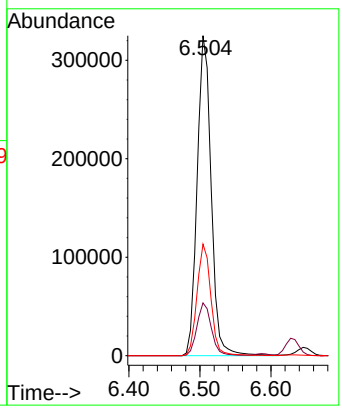




#7
Phenol-d6
Concen: 74.251 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 99 Resp: 44695

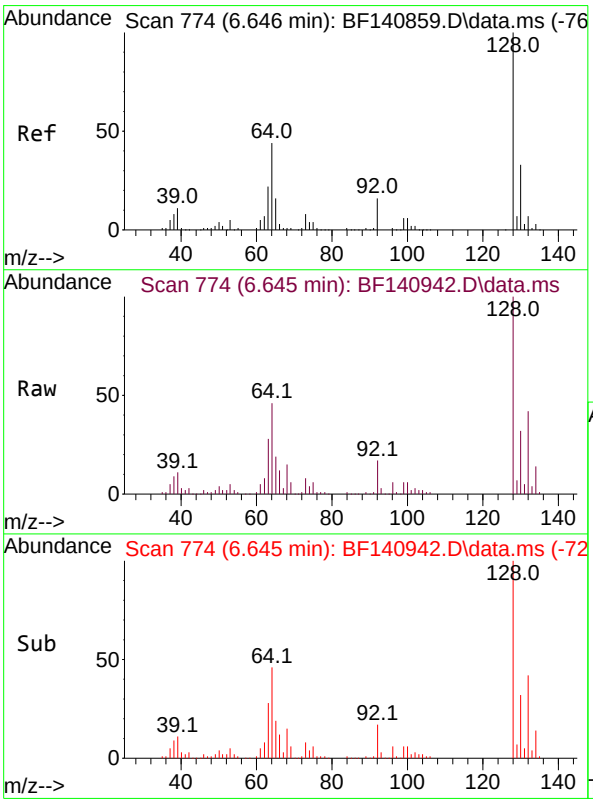
Ion	Ratio	Lower	Upper
99	100		
42	16.5	14.3	21.5
71	34.8	29.9	44.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

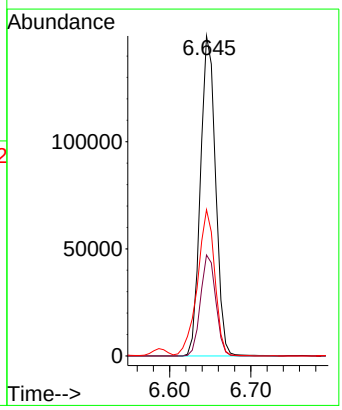
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

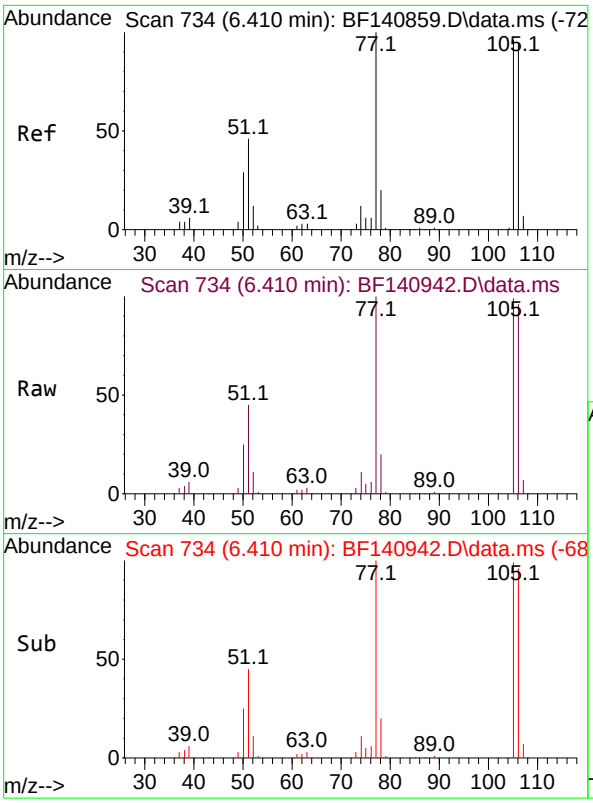


#8
2-Chlorophenol
Concen: 38.996 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:128 Resp: 193264

Ion	Ratio	Lower	Upper
128	100		
130	31.6	12.9	52.9
64	45.7	24.3	64.3

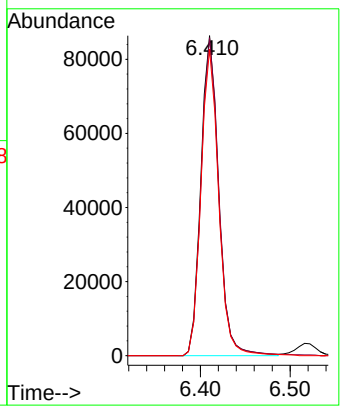




#9
Benzaldehyde
Concen: 35.692 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 77 Resp: 11904

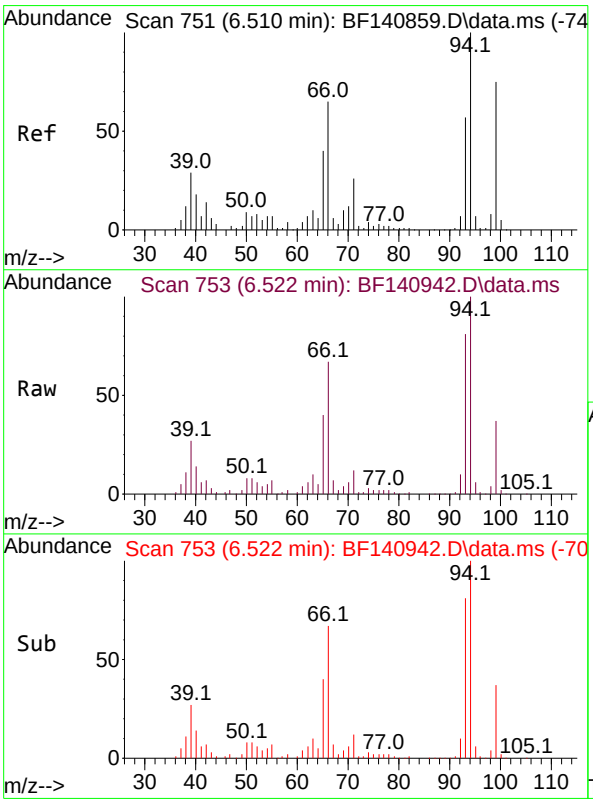
Ion	Ratio	Lower	Upper
77	100		
105	99.3	75.8	115.8
106	95.7	74.1	114.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

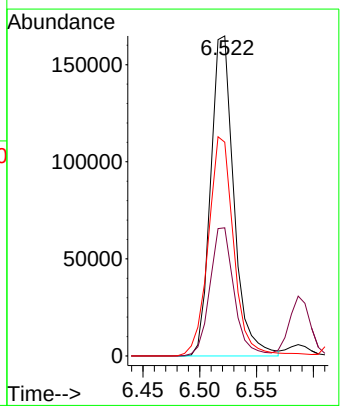
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

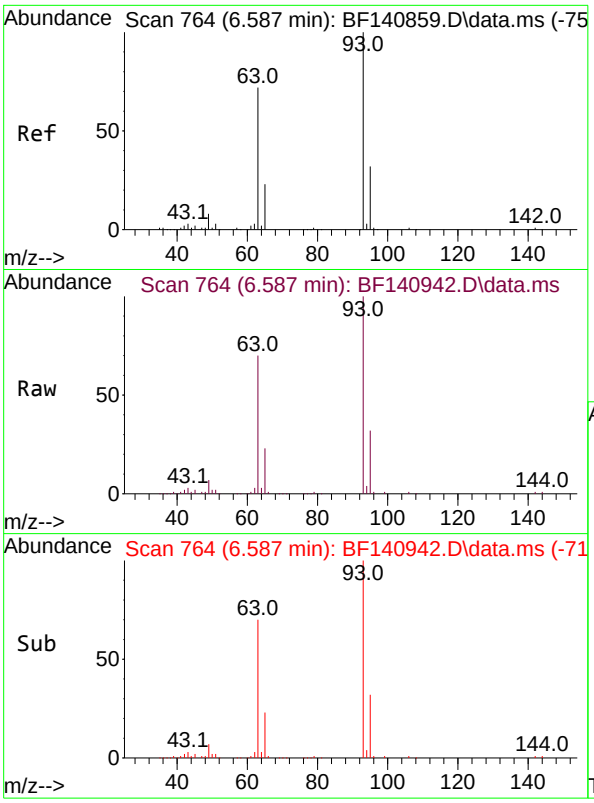


#10
Phenol
Concen: 37.438 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 94 Resp: 233567

Ion	Ratio	Lower	Upper
94	100		
65	40.0	19.9	59.9
66	66.8	45.6	85.6





#11
bis(2-Chloroethyl)ether
Concen: 37.188 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

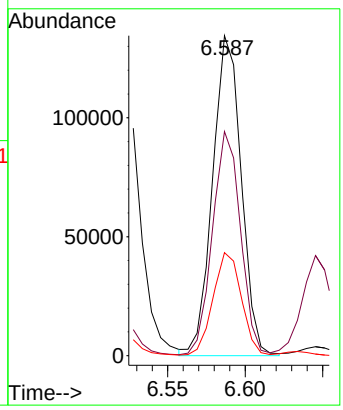
Tgt Ion: 93 Resp: 17302

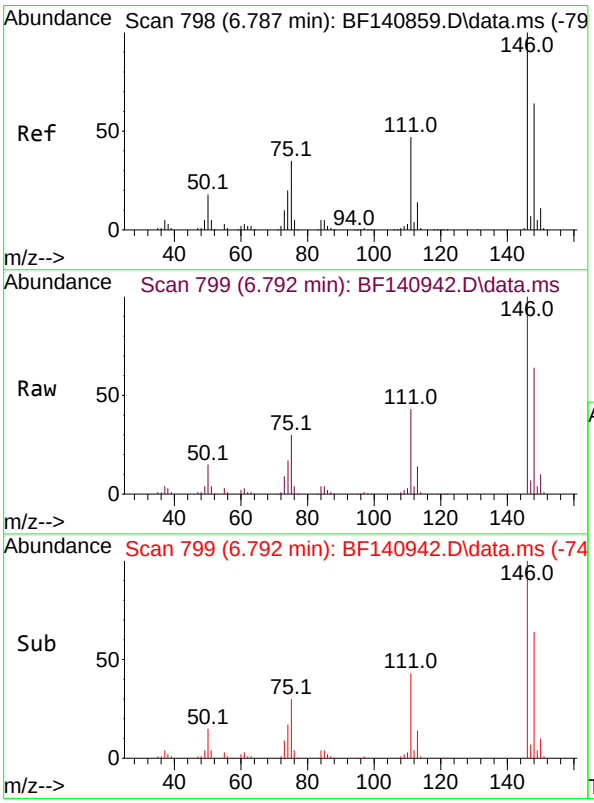
Ion	Ratio	Lower	Upper
93	100		
63	70.0	51.0	91.0
95	32.2	12.0	52.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

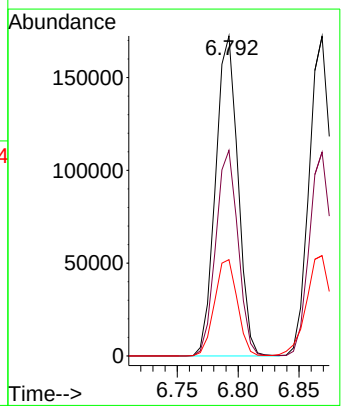


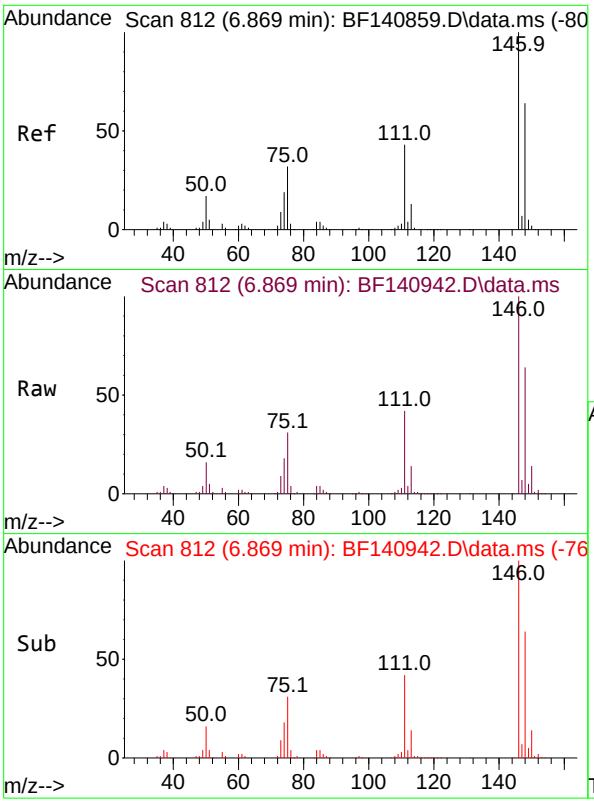


#12
1,3-Dichlorobenzene
Concen: 39.082 ng
RT: 6.792 min Scan# 799
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:146 Resp: 220709

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
75	30.1	28.1	42.1

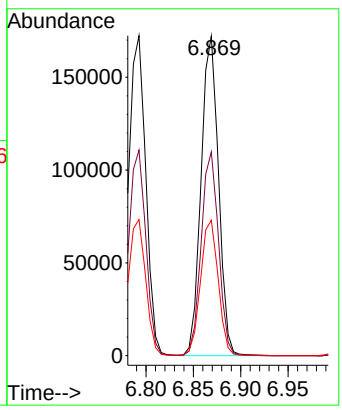




#13
1,4-Dichlorobenzene
Concen: 38.376 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:146 Resp: 21998

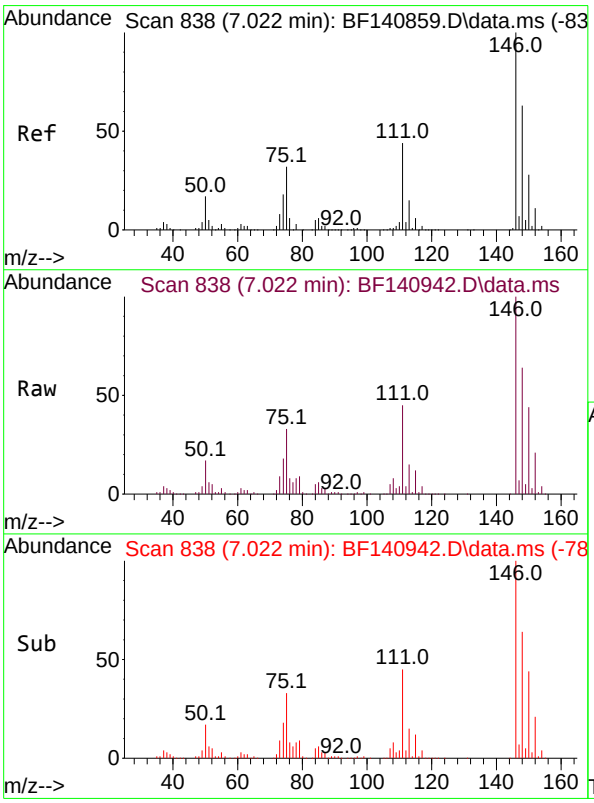
Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.3	76.9
111	42.4	34.4	51.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

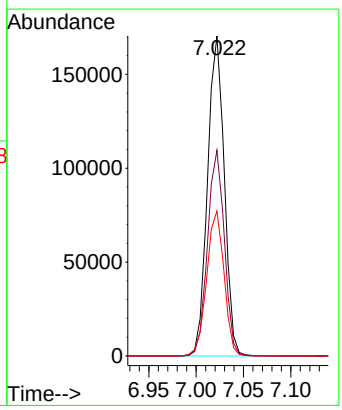
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

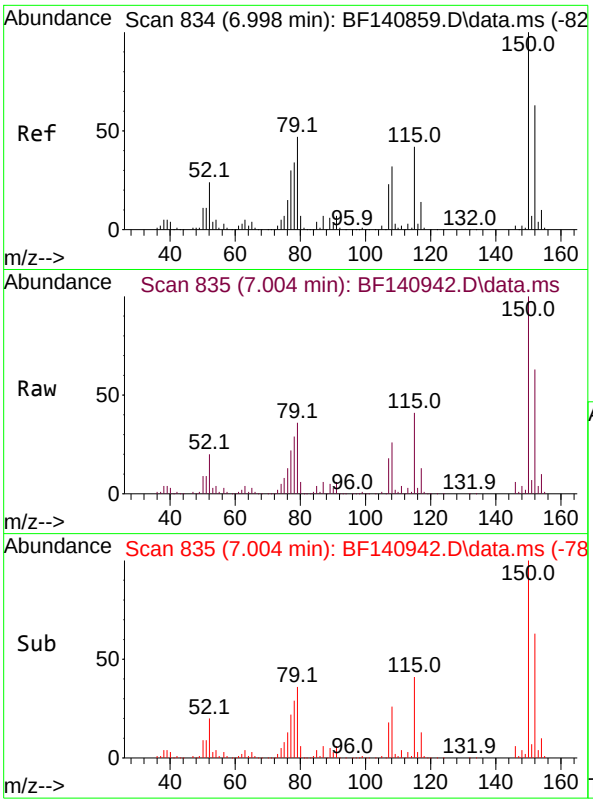


#14
1,2-Dichlorobenzene
Concen: 38.575 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:146 Resp: 208631

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.0	75.0
111	45.3	35.6	53.4

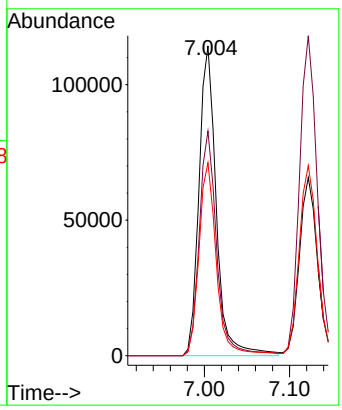




#15
Benzyl Alcohol
Concen: 37.495 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 79 Resp: 16137

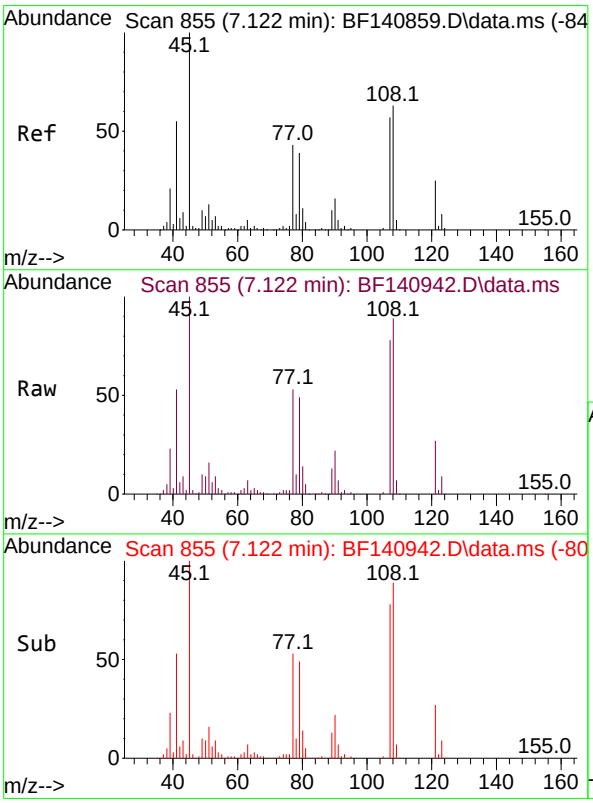
Ion	Ratio	Lower	Upper
79	100		
108	72.5	55.1	82.7
77	62.3	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

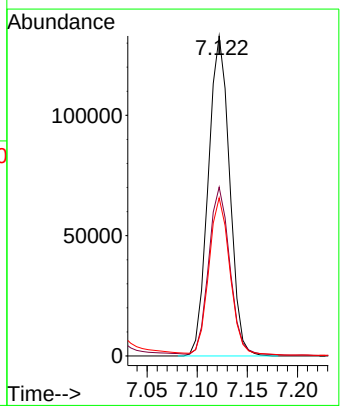
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

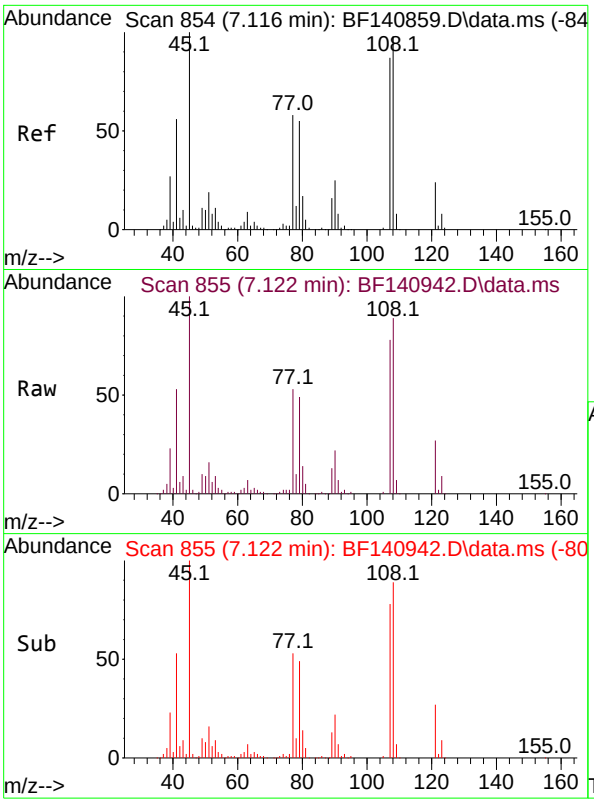


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.963 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 45 Resp: 197110

Ion	Ratio	Lower	Upper
45	100		
77	52.7	23.3	63.3
79	49.4	20.0	60.0

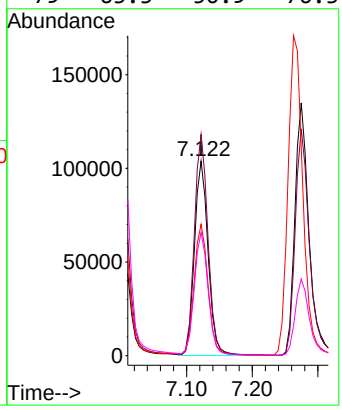




#17
2-Methylphenol
Concen: 38.095 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

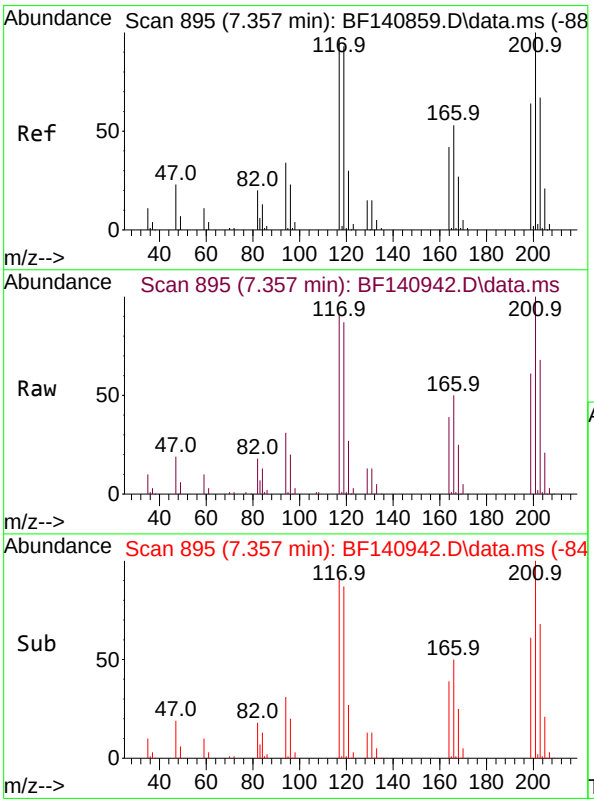
Tgt Ion:107 Resp: 15073

Ion	Ratio	Lower	Upper
107	100		
108	113.7	90.2	135.4
77	67.6	53.8	80.6
79	63.3	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

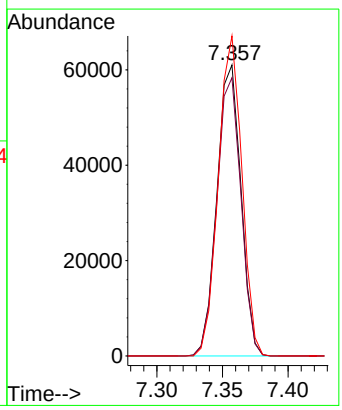
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

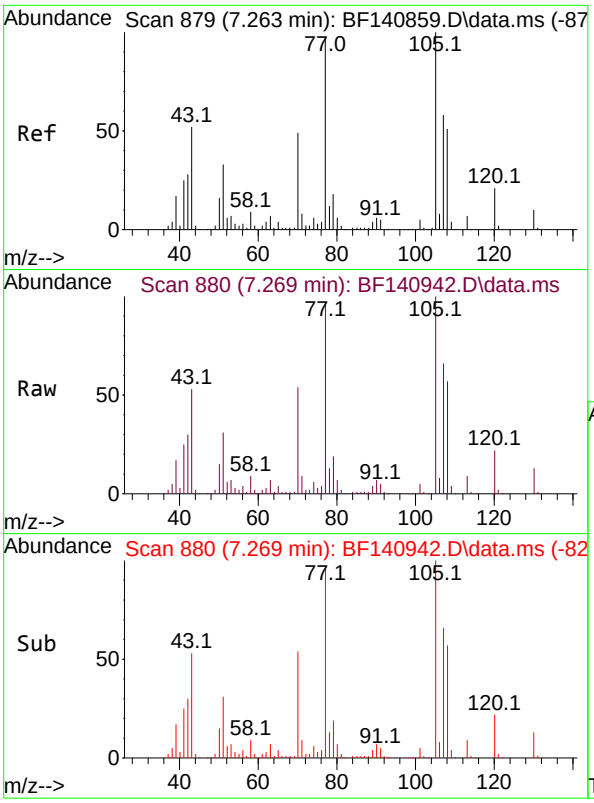


#18
Hexachloroethane
Concen: 36.502 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:117 Resp: 77896

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.4	116.0
201	109.9	83.4	125.0

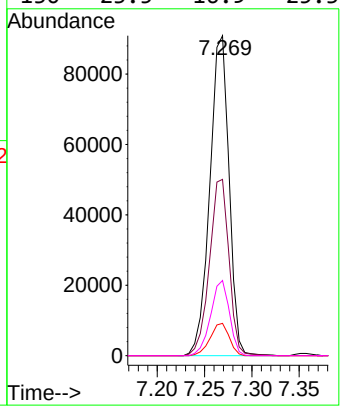




#19
n-Nitroso-di-n-propylamine
Concen: 35.587 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 70 Resp: 12849

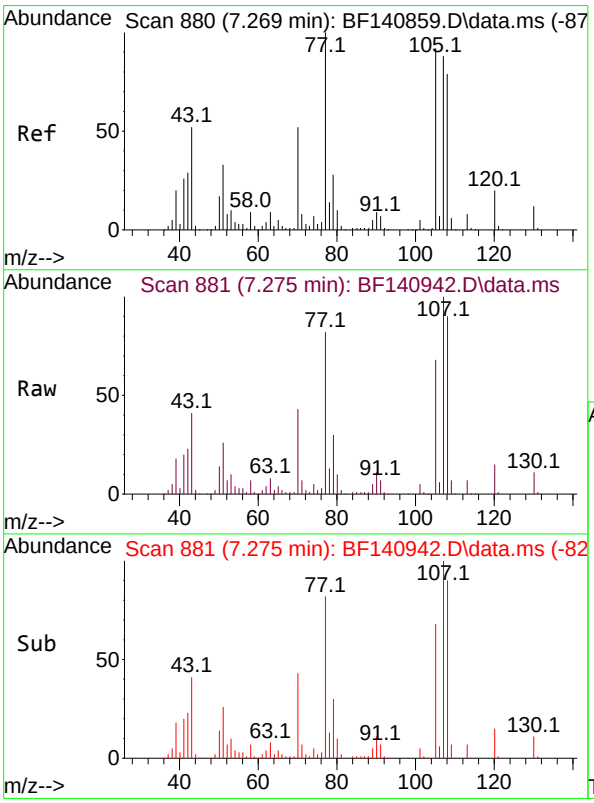
Ion	Ratio	Lower	Upper
70	100		
42	55.1	45.3	67.9
101	10.1	8.0	12.0
130	23.5	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

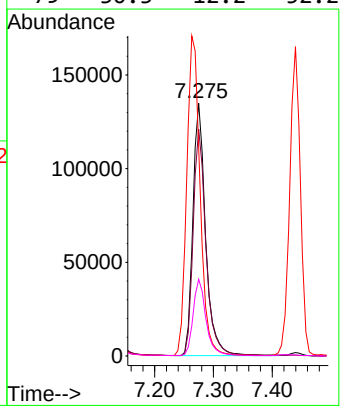
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

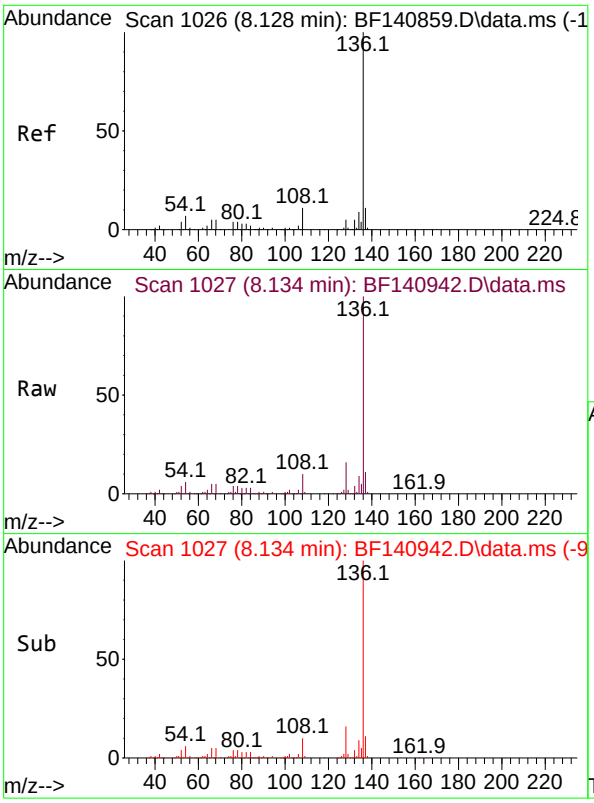


#20
3+4-Methylphenols
Concen: 38.521 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:107 Resp: 202109

Ion	Ratio	Lower	Upper
107	100		
108	89.8	70.1	110.1
77	82.4	94.4	134.4#
79	30.3	12.2	52.2

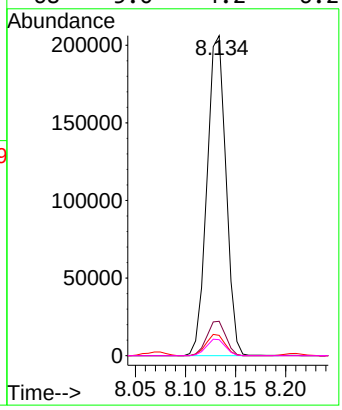




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:136 Resp: 27158

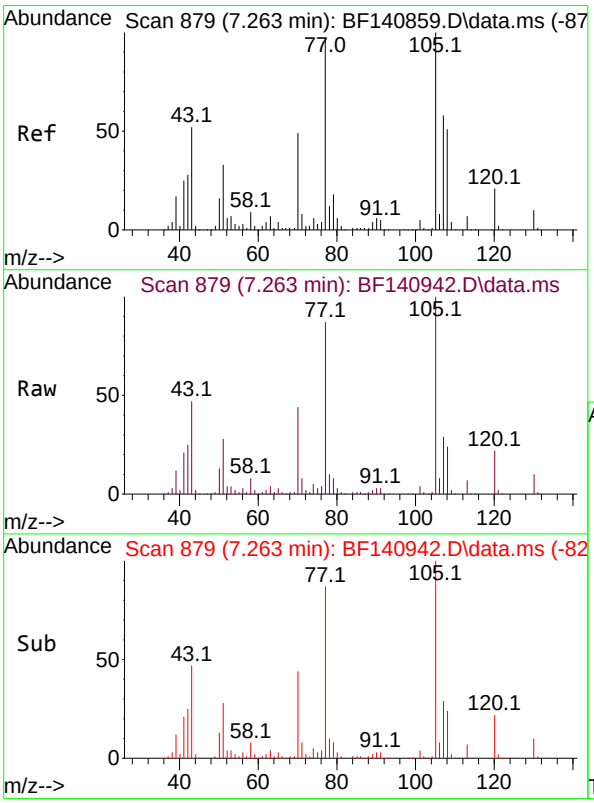
Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.3	5.6	8.4
68	5.0	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

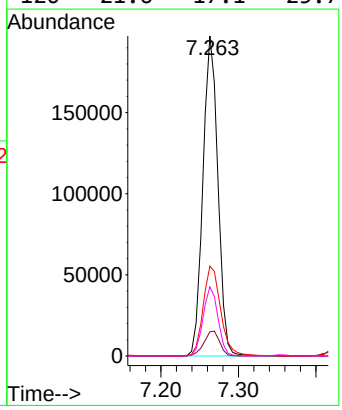
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

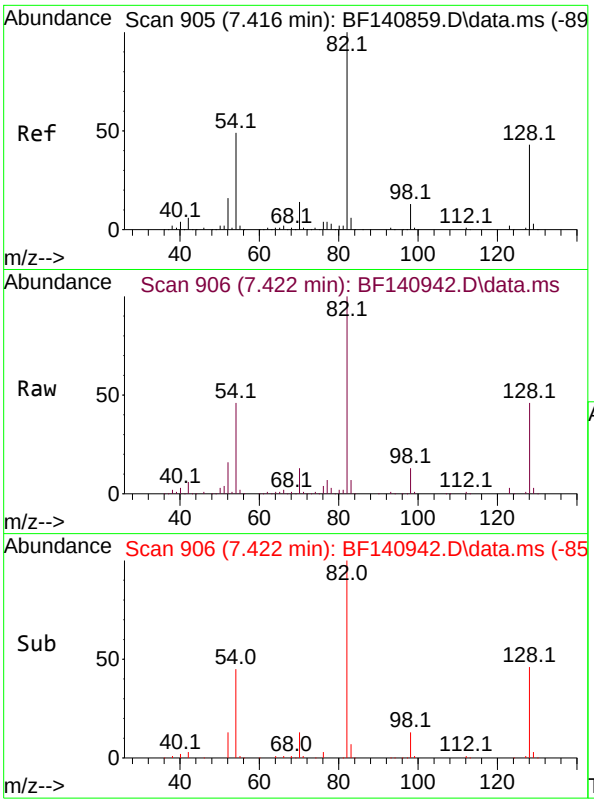


#22
Acetophenone
Concen: 38.835 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:105 Resp: 263844

Ion	Ratio	Lower	Upper
105	100		
71	7.5	6.2	9.4
51	28.1	26.3	39.5
120	21.6	17.1	25.7

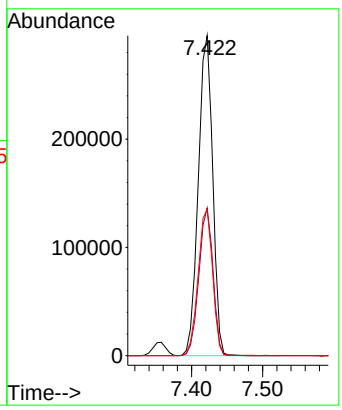




#23
Nitrobenzene-d5
Concen: 77.004 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 82 Resp: 41800

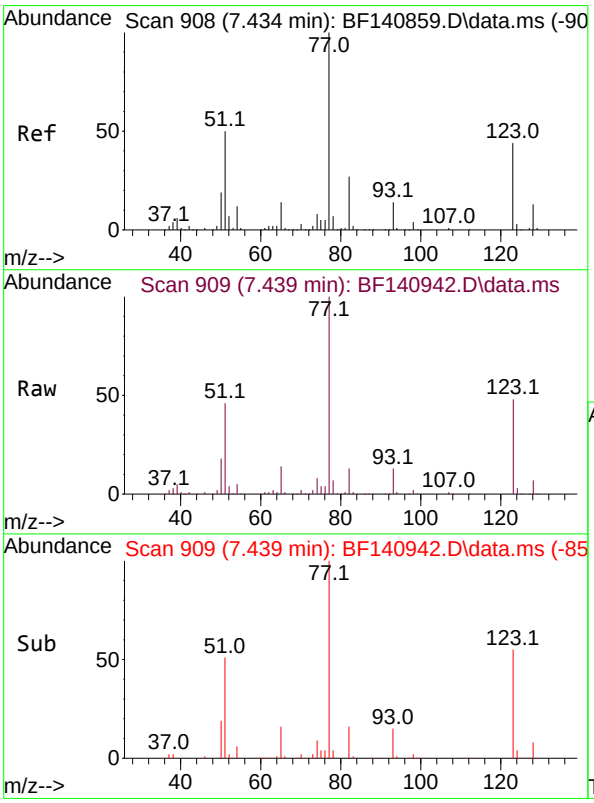
Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.4	51.6
54	45.8	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

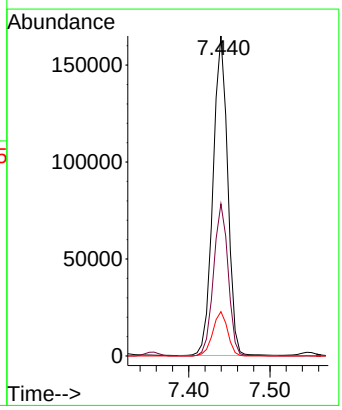
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

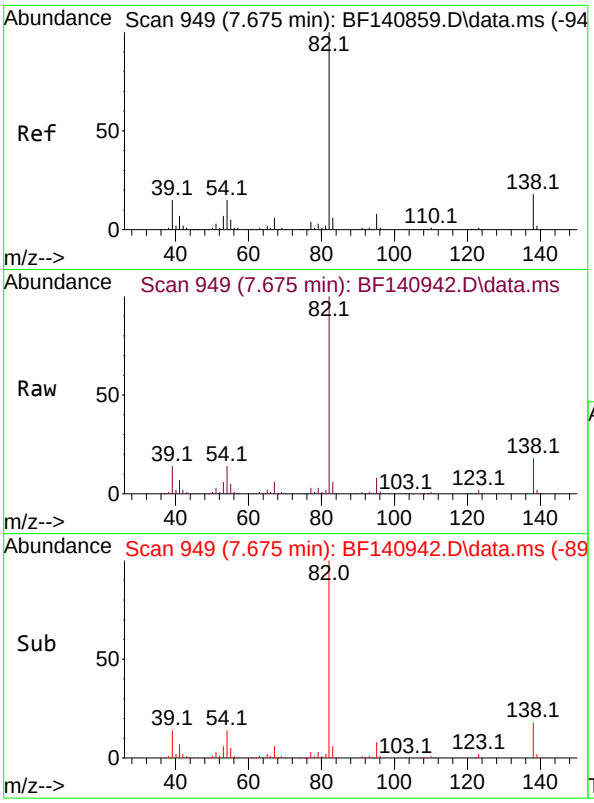


#24
Nitrobenzene
Concen: 37.305 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 77 Resp: 207460

Ion	Ratio	Lower	Upper
77	100		
123	47.6	35.0	52.4
65	13.9	11.4	17.0





#25
Isophorone
Concen: 38.063 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

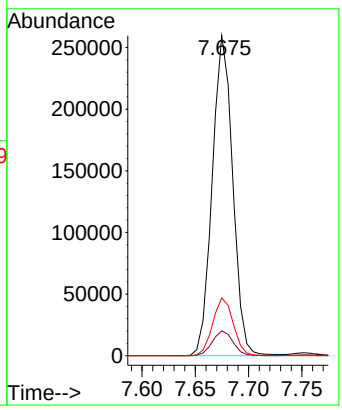
Tgt Ion: 82 Resp: 346209

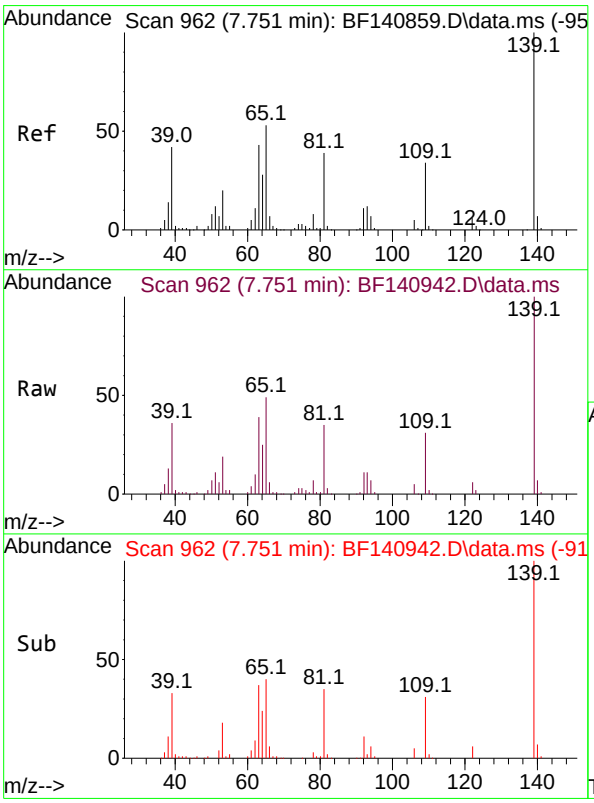
Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.3	9.5
138	18.1	14.1	21.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

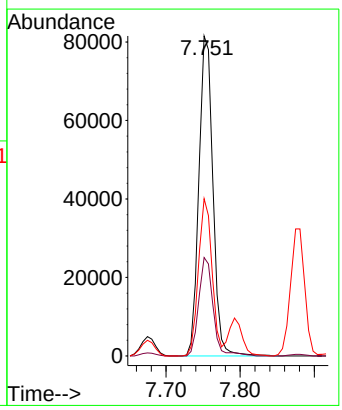


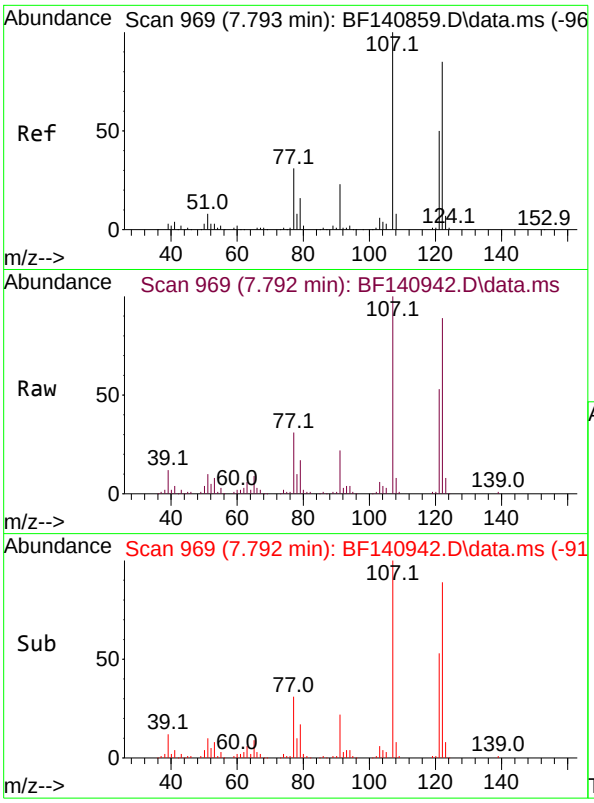


#26
2-Nitrophenol
Concen: 41.913 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:139 Resp: 107352

Ion	Ratio	Lower	Upper
139	100		
109	30.8	26.9	40.3
65	49.1	42.6	64.0

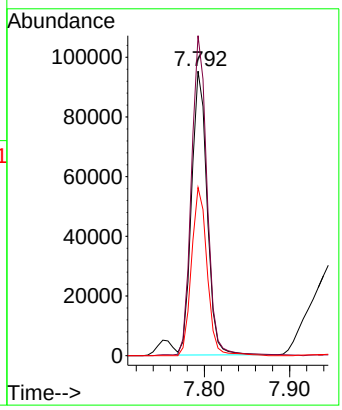




#27
2,4-Dimethylphenol
Concen: 40.254 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:122 Resp: 12040

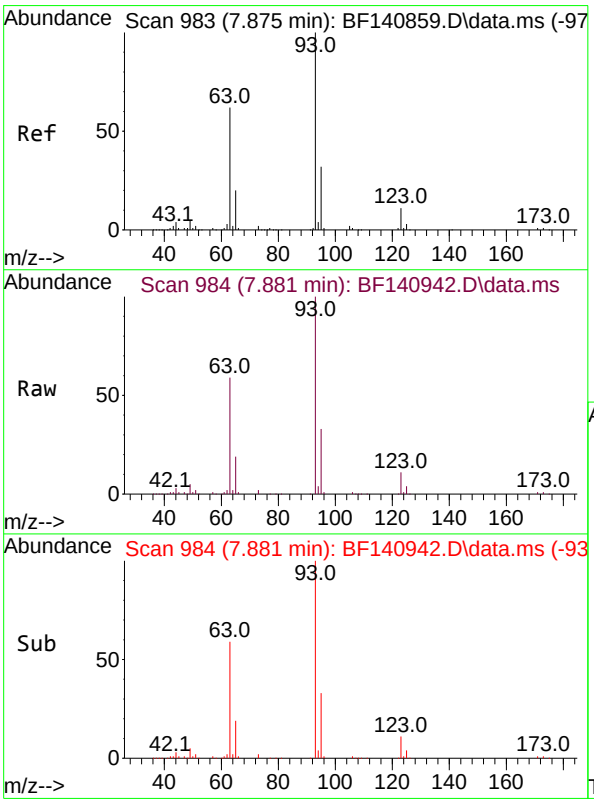
Ion	Ratio	Lower	Upper
122	100		
107	112.5	92.6	139.0
121	59.1	45.8	68.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

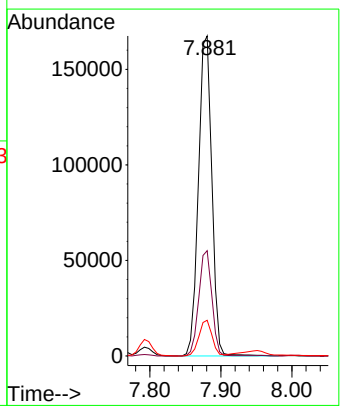
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

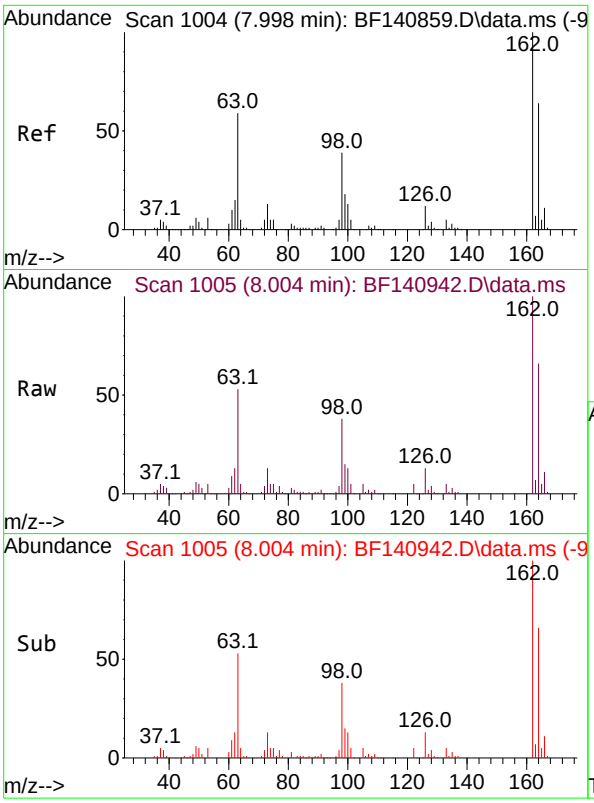


#28
bis(2-Chloroethoxy)methane
Concen: 38.864 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 93 Resp: 220781

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.3	37.9
123	11.1	8.6	13.0

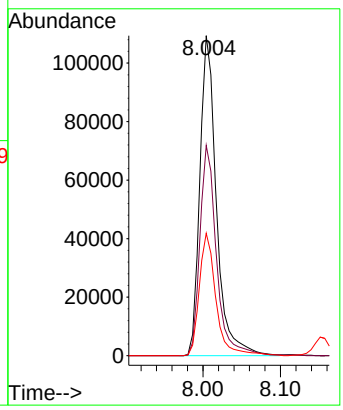




#29
2,4-Dichlorophenol
Concen: 39.361 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:162 Resp: 16254

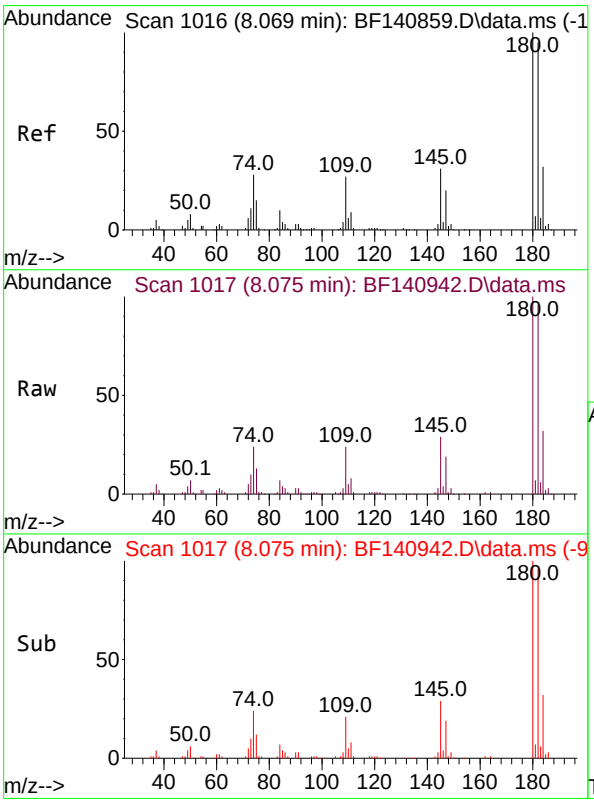
Ion	Ratio	Lower	Upper
162	100		
164	65.7	43.7	83.7
98	38.3	18.6	58.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

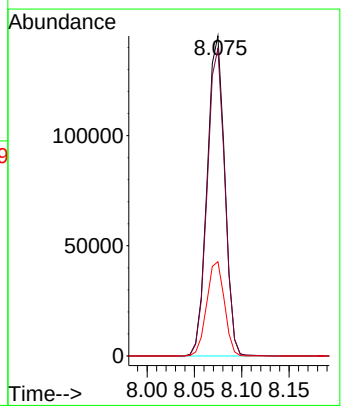
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

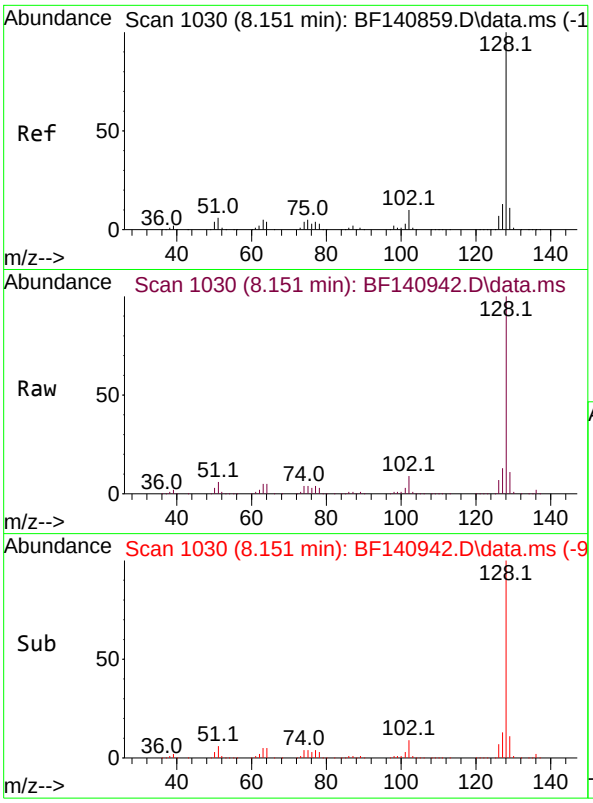


#30
1,2,4-Trichlorobenzene
Concen: 39.649 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:180 Resp: 187702

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.8	113.6
145	29.5	25.2	37.8





#31
Naphthalene
Concen: 39.270 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

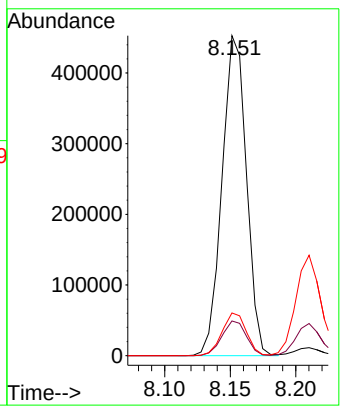
Tgt Ion:128 Resp: 58585

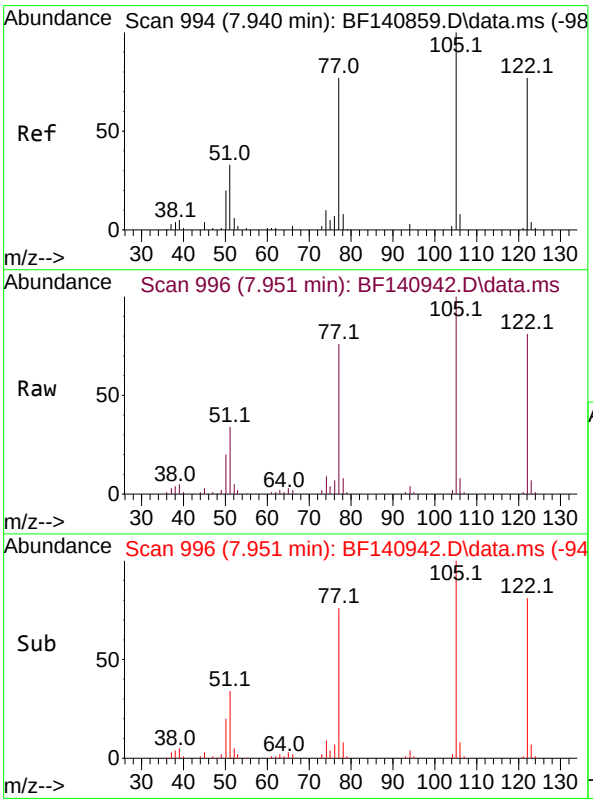
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.4	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

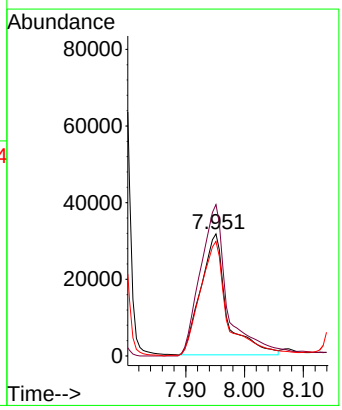


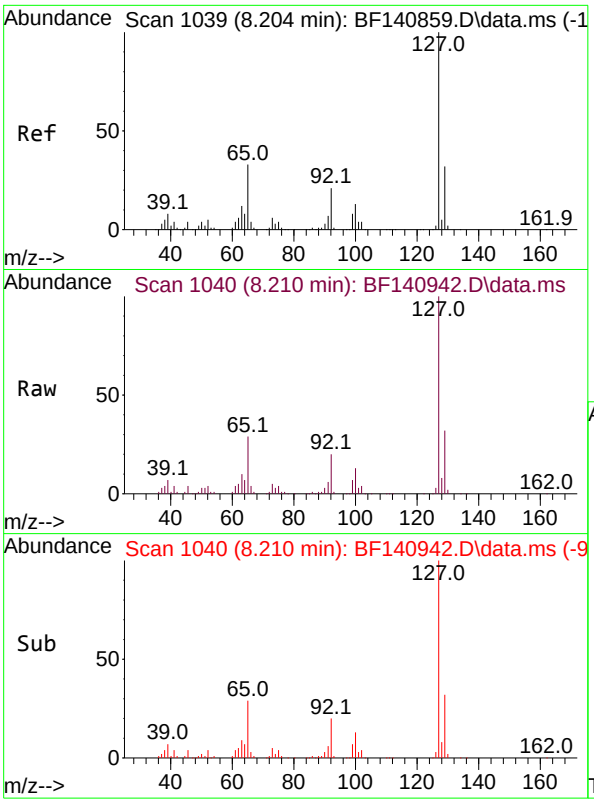


#32
Benzoic acid
Concen: 34.606 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.011 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:122 Resp: 98174

Ion	Ratio	Lower	Upper
122	100		
105	124.0	108.3	148.3
77	93.8	78.8	118.8

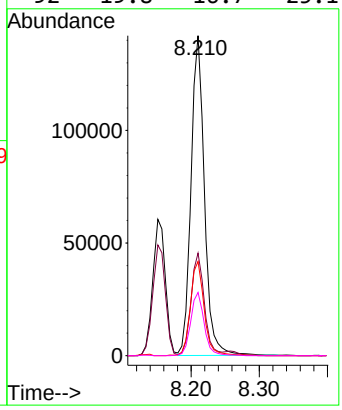




#33
4-Chloroaniline
Concen: 39.228 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:127 Resp: 19436

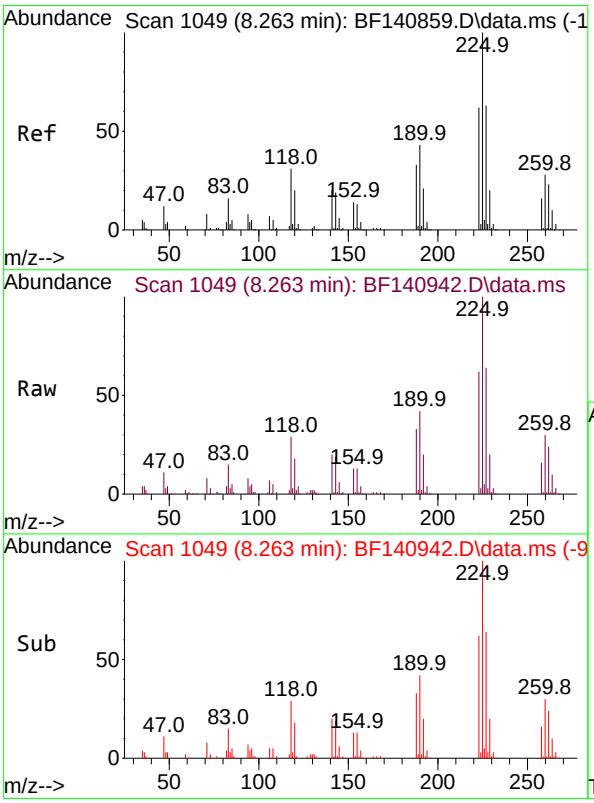
Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.0	39.0
65	29.5	26.0	39.0
92	19.8	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

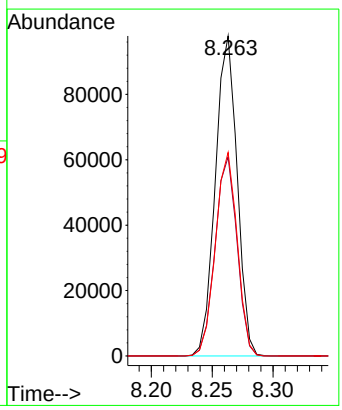
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

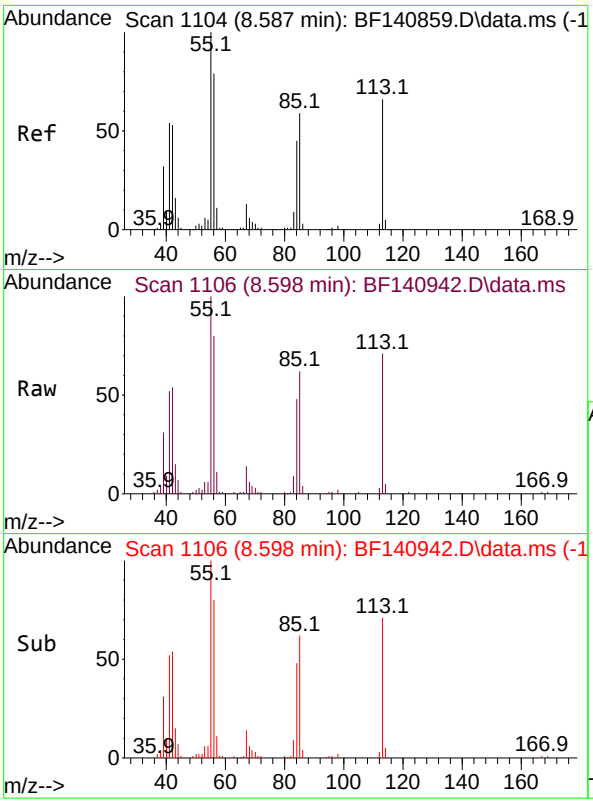


#34
Hexachlorobutadiene
Concen: 38.289 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:225 Resp: 121955

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.6	74.4
227	63.6	50.7	76.1





#35
Caprolactam
Concen: 37.061 ng
RT: 8.598 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

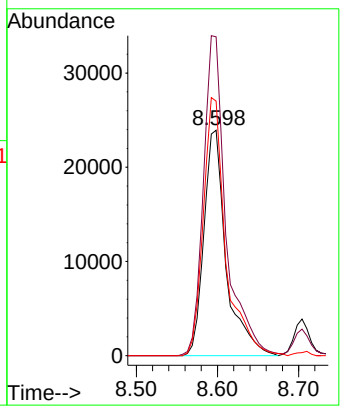
Tgt Ion:113 Resp: 4556

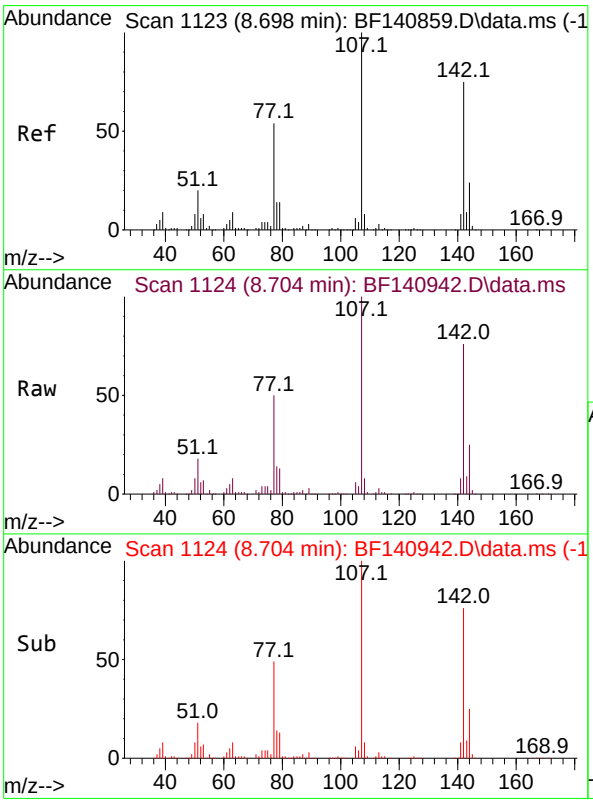
Ion	Ratio	Lower	Upper
113	100		
55	141.5	132.3	172.3
56	112.9	100.3	140.3

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

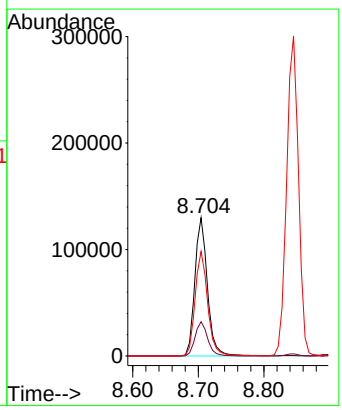


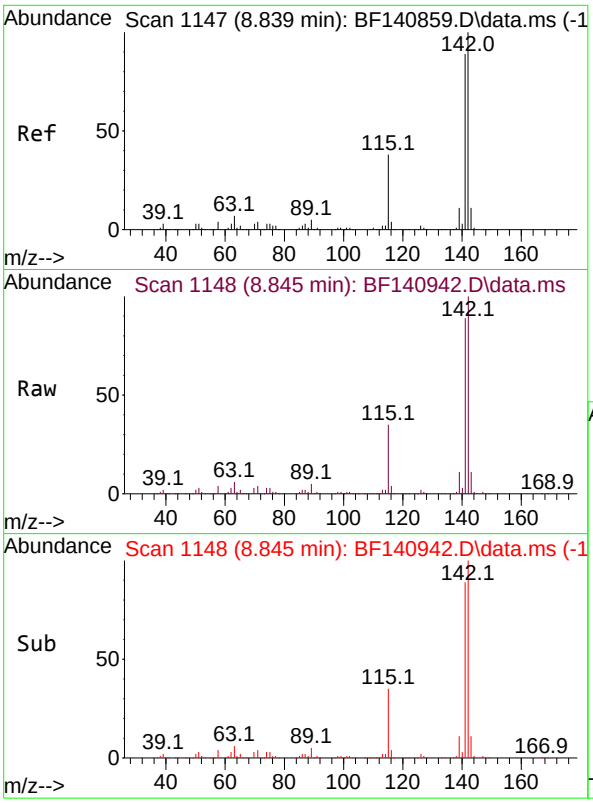


#36
4-Chloro-3-methylphenol
Concen: 37.361 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:107 Resp: 173656

Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.4	29.2
142	75.5	60.3	90.5

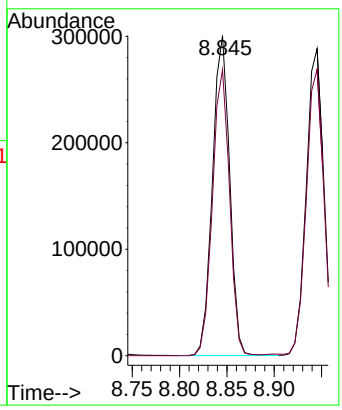




#37
2-Methylnaphthalene
Concen: 38.282 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:142 Resp: 37779

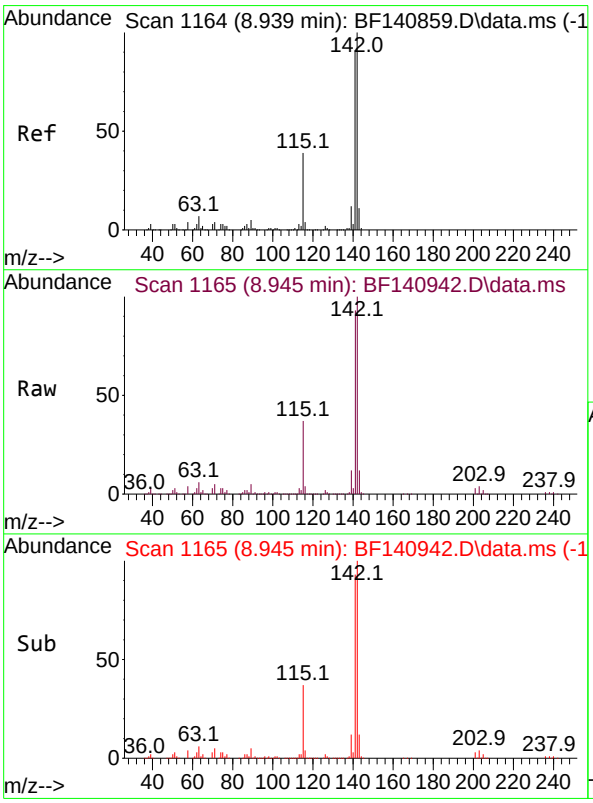
Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.0	106.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

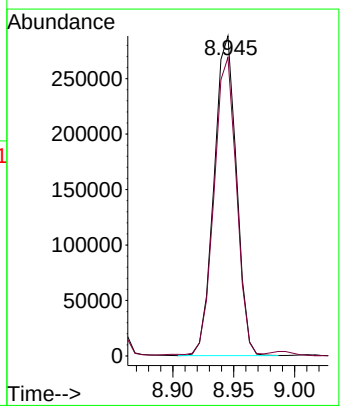
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

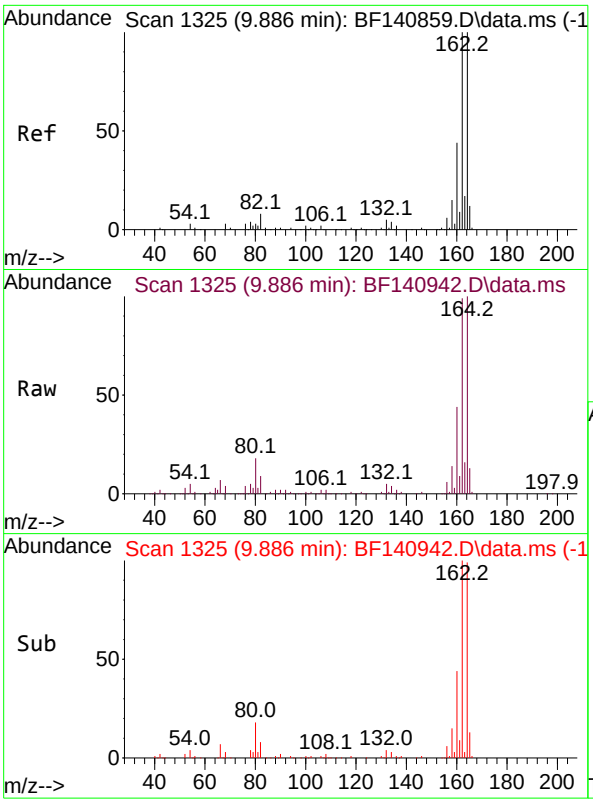


#38
1-Methylnaphthalene
Concen: 37.761 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:142 Resp: 368550

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.4	110.0

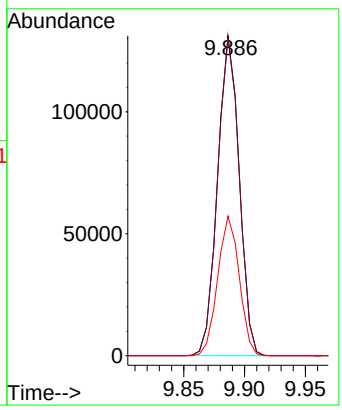




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:164 Resp: 16231

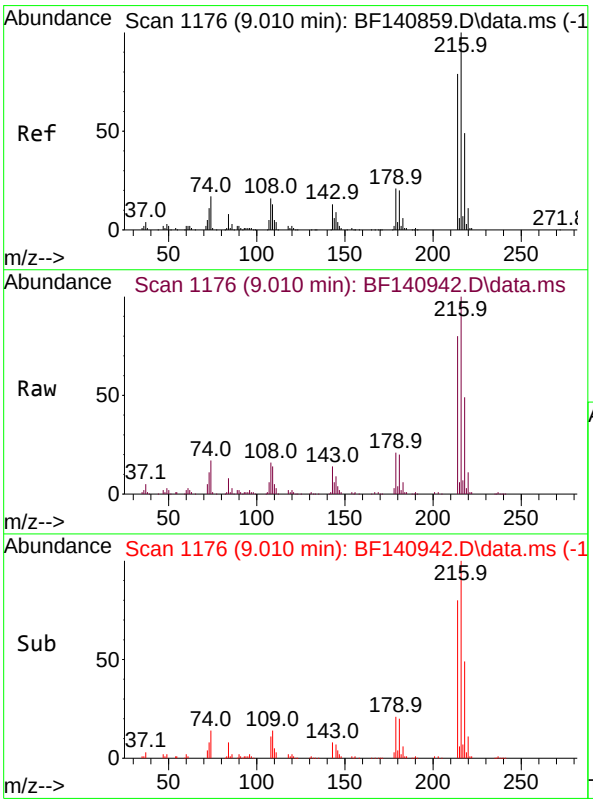
Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.9	119.9
160	43.6	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

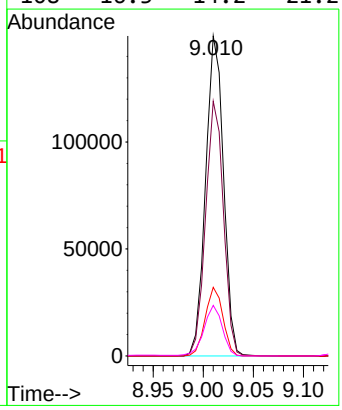
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

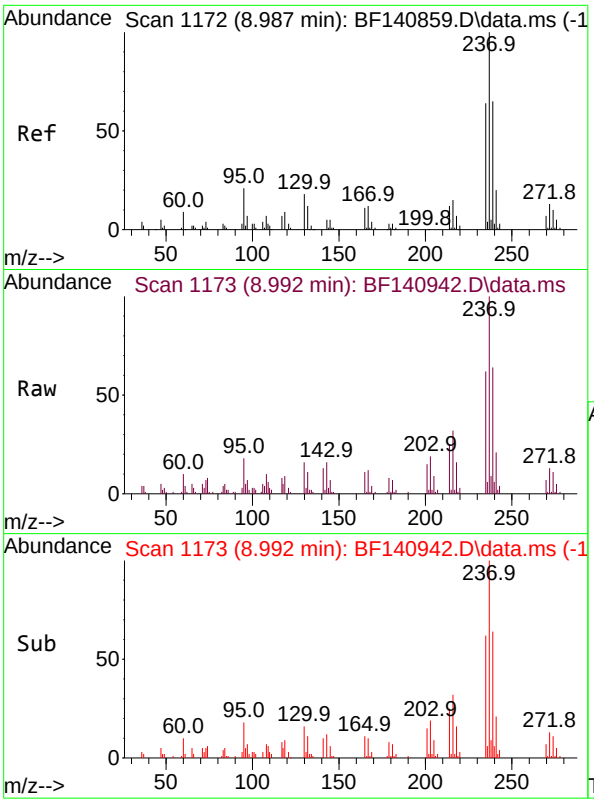


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.349 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:216 Resp: 186337

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.6	95.4
179	21.1	17.0	25.4
108	16.3	14.2	21.2

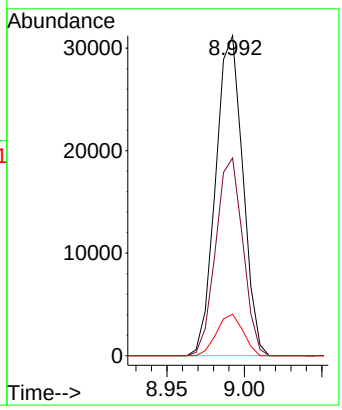




#41
Hexachlorocyclopentadiene
Concen: 34.773 ng
RT: 8.992 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:237 Resp: 3808

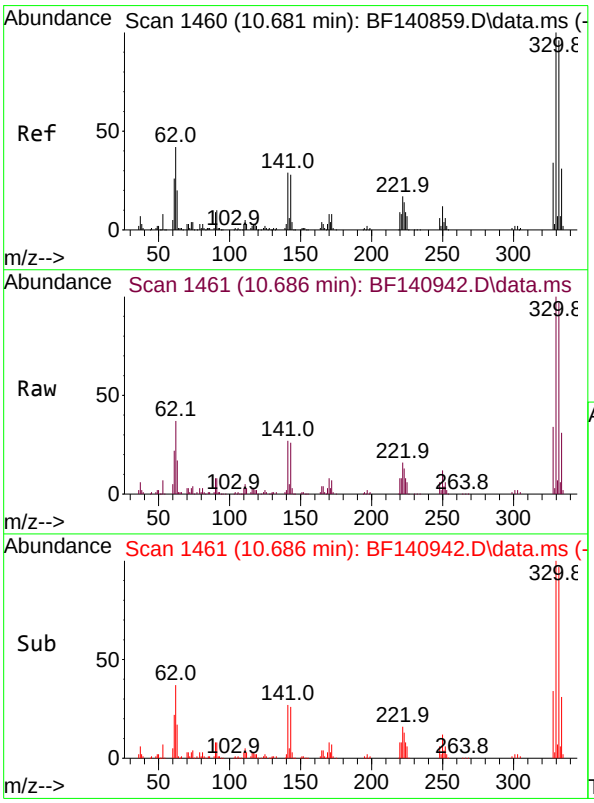
Ion	Ratio	Lower	Upper
237	100		
235	61.8	43.7	83.7
272	13.0	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

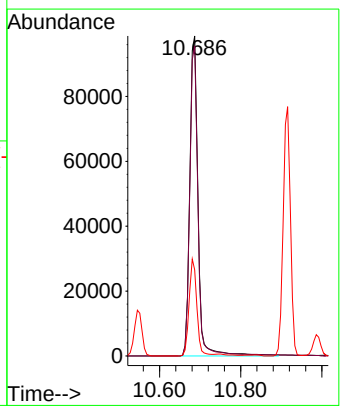
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

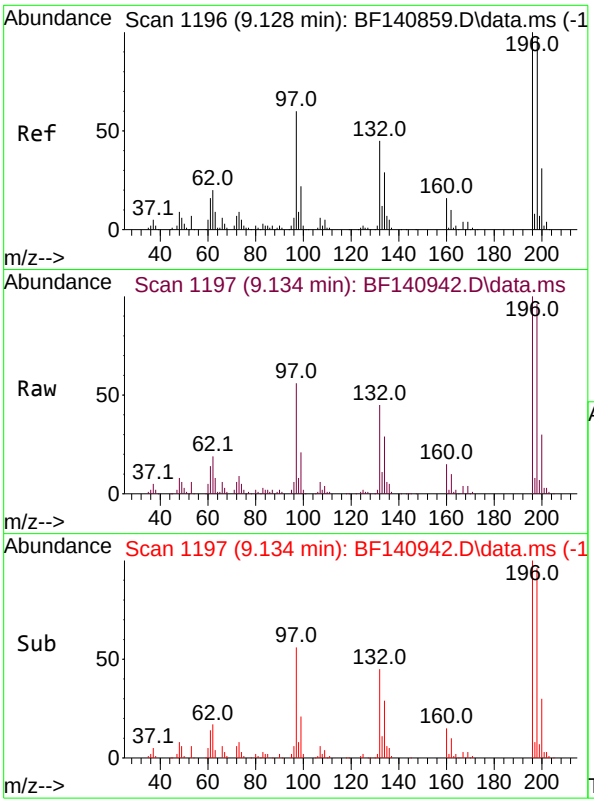


#42
2,4,6-Tribromophenol
Concen: 72.531 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:330 Resp: 139243

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.2	114.4
141	28.3	24.9	37.3

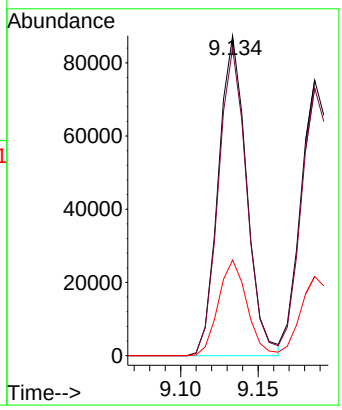




#43
2,4,6-Trichlorophenol
Concen: 36.226 ng
RT: 9.134 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:196 Resp: 11066

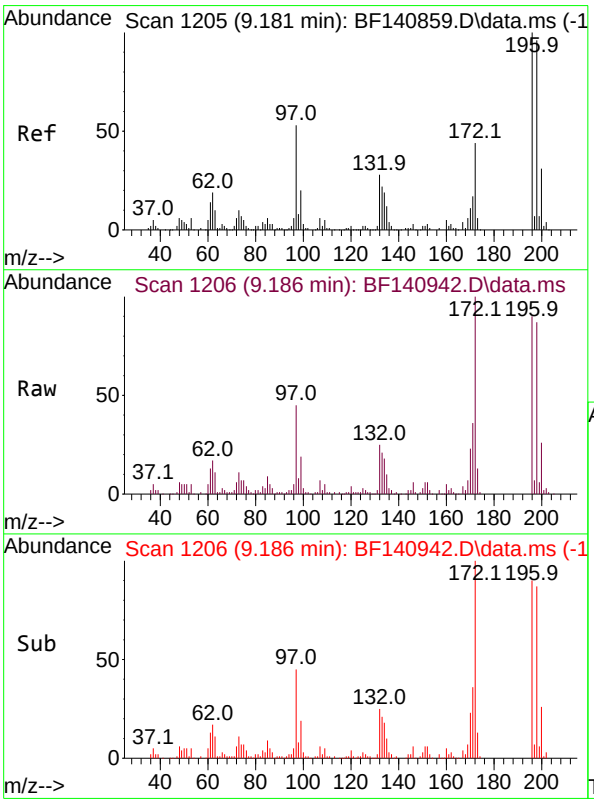
Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.4	116.0
200	29.9	24.5	36.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

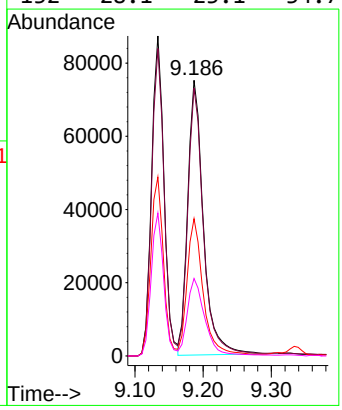
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

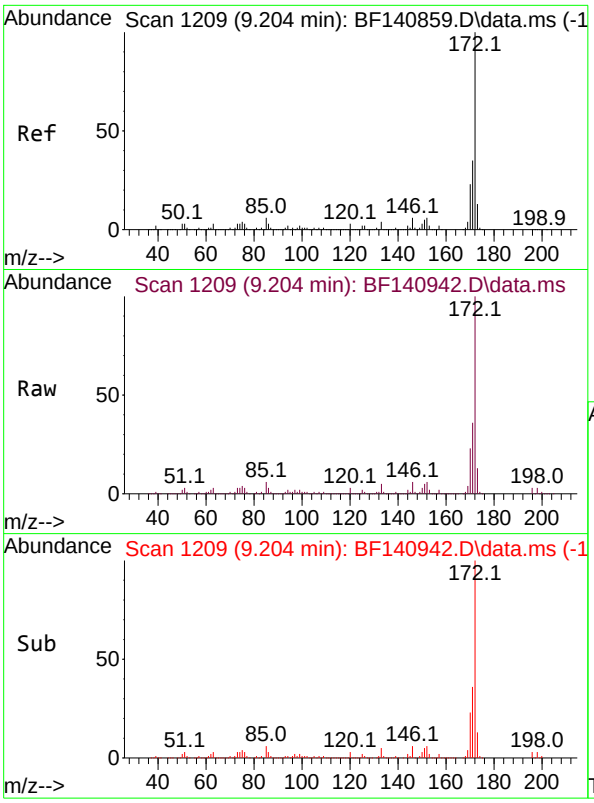


#44
2,4,5-Trichlorophenol
Concen: 35.638 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:196 Resp: 119664

Ion	Ratio	Lower	Upper
196	100		
198	97.2	77.2	115.8
97	49.8	42.2	63.4
132	28.1	23.1	34.7

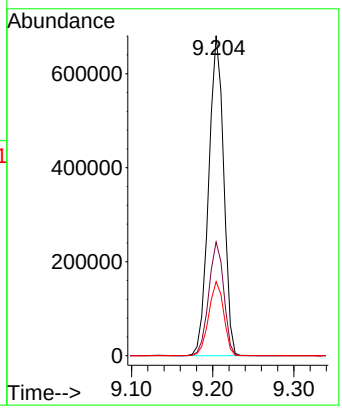




#45
2-Fluorobiphenyl
Concen: 73.670 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:172 Resp: 86976

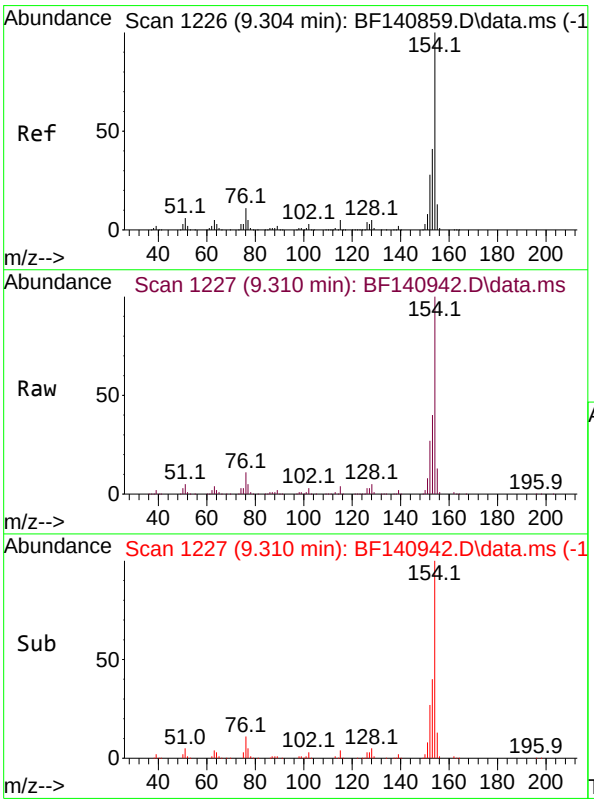
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.4	42.6
170	23.2	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

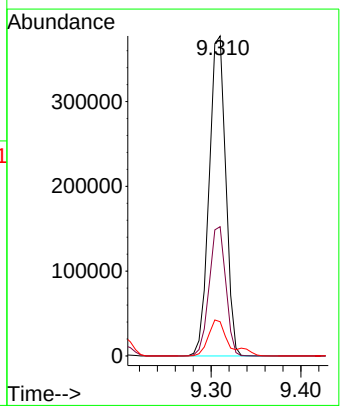
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

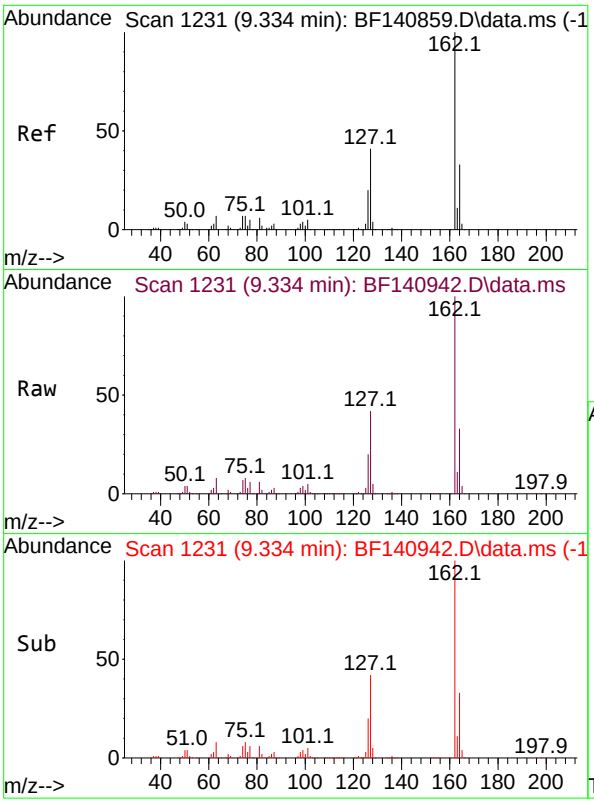


#46
1,1'-Biphenyl
Concen: 37.480 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:154 Resp: 483766

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.8	60.8
76	10.7	0.0	31.0

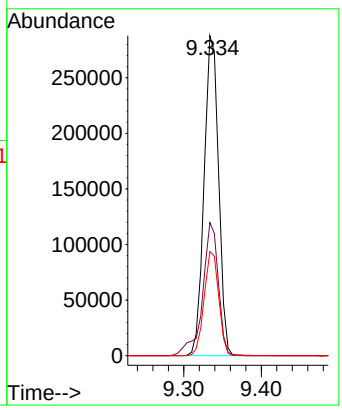




#47
2-Chloronaphthalene
Concen: 37.889 ng
RT: 9.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:162 Resp: 37412

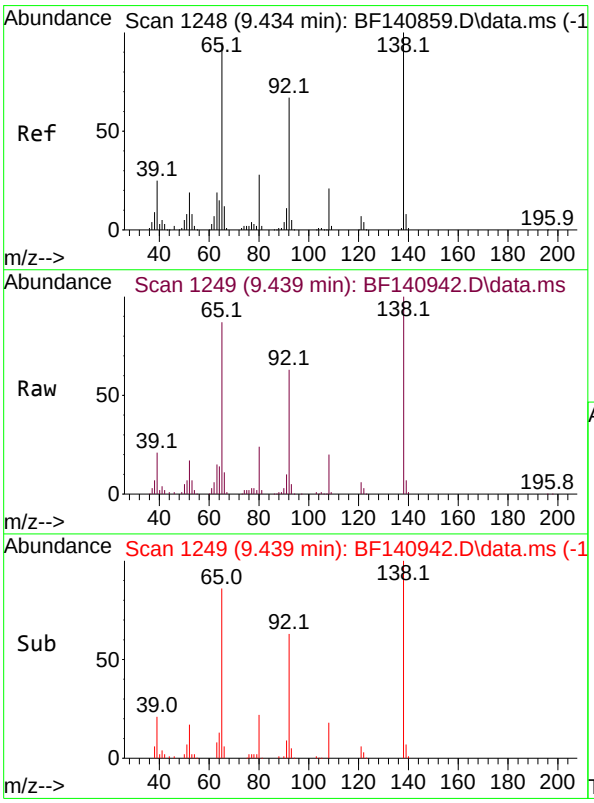
Ion	Ratio	Lower	Upper
162	100		
127	41.6	33.5	50.3
164	32.5	26.2	39.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

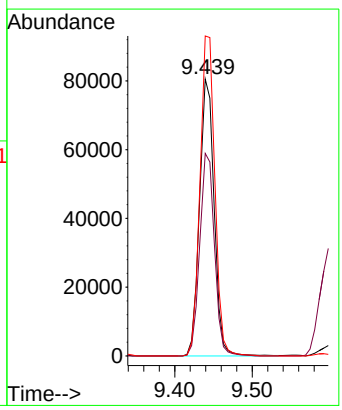
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

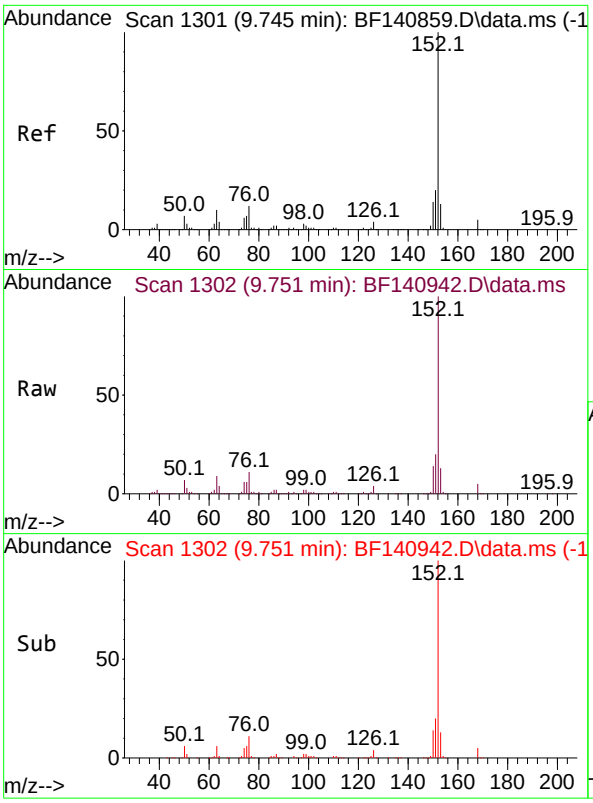


#48
2-Nitroaniline
Concen: 35.406 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 65 Resp: 105588

Ion	Ratio	Lower	Upper
65	100		
92	73.1	56.3	84.5
138	115.5	83.8	125.6

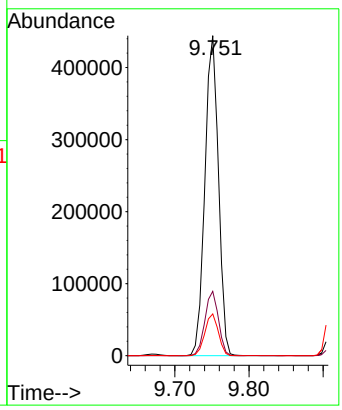




#49
Acenaphthylene
Concen: 38.943 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

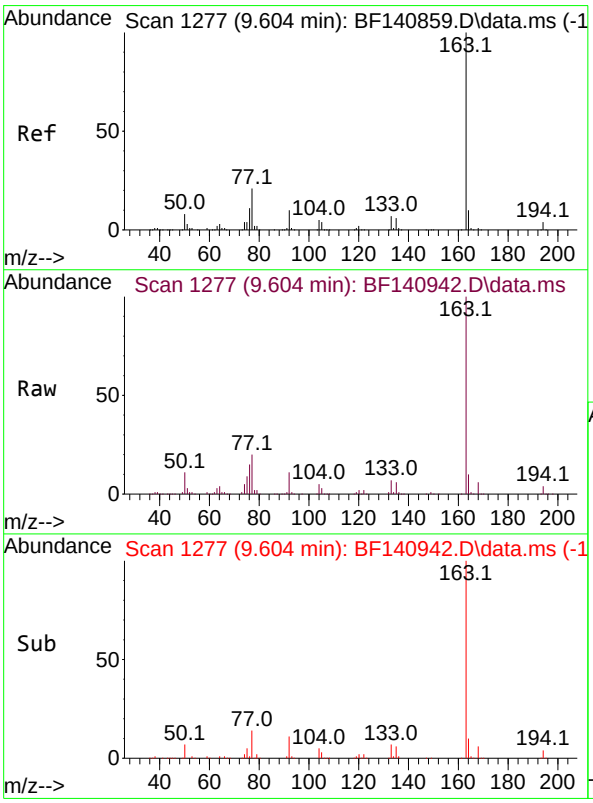
Tgt Ion:152 Resp: 56510

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.0	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

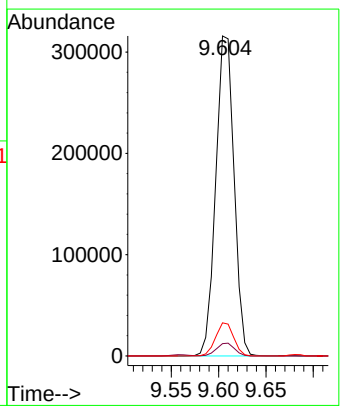
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

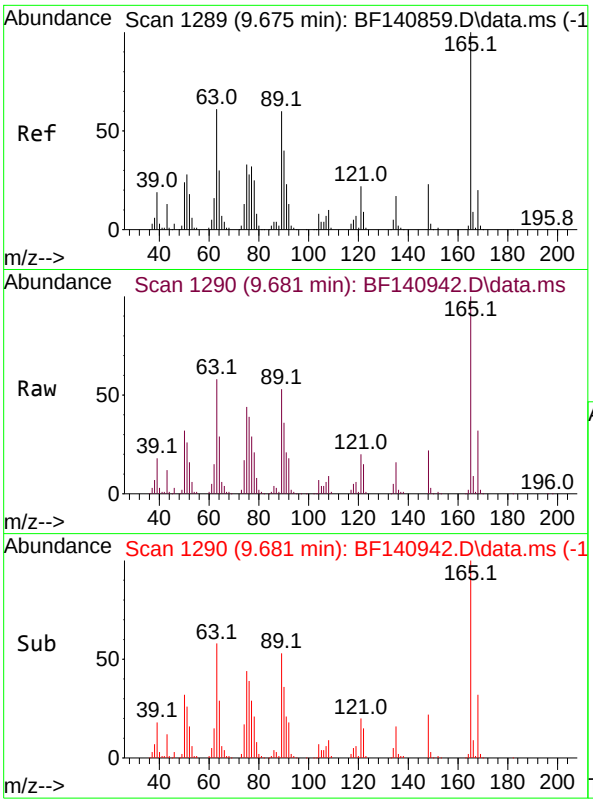


#50
Dimethylphthalate
Concen: 37.159 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:163 Resp: 425243

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.3	8.1	12.1

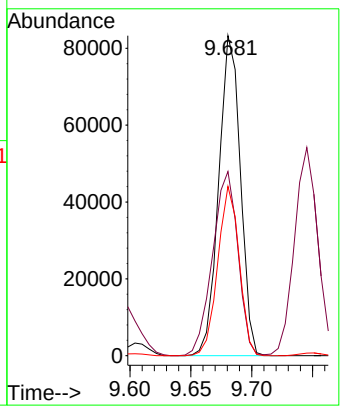




#51
2,6-Dinitrotoluene
Concen: 39.451 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

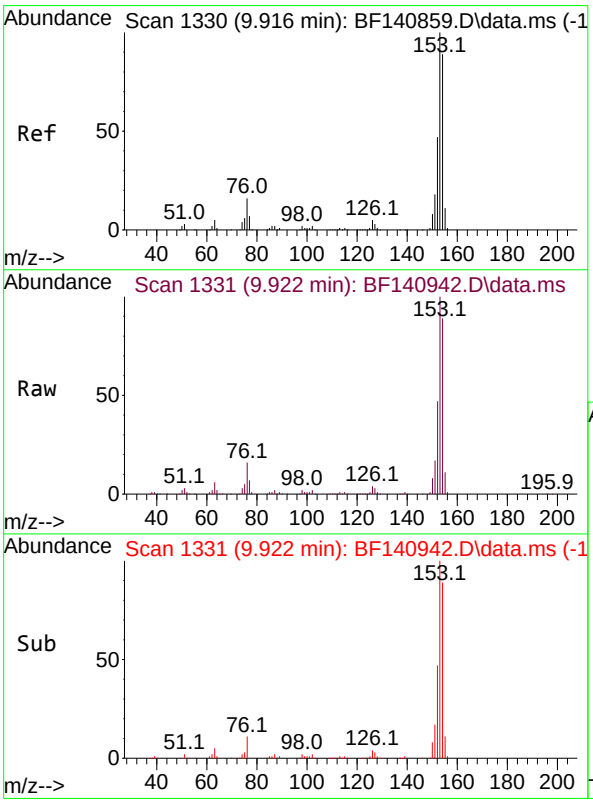
Tgt Ion:165 Resp: 10321

Ion	Ratio	Lower	Upper
165	100		
63	57.5	49.7	74.5
89	52.9	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

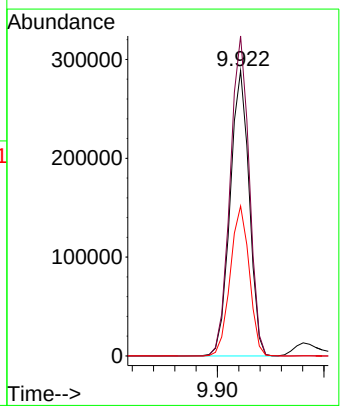
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

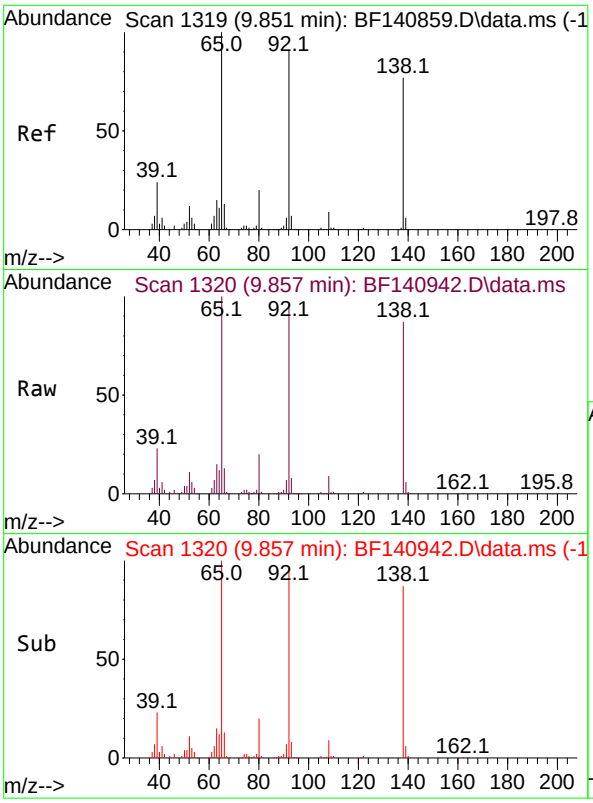


#52
Acenaphthene
Concen: 38.772 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:154 Resp: 359395

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.9	134.9
152	52.6	42.6	63.8

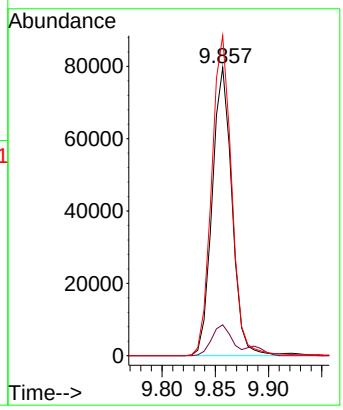




#53
3-Nitroaniline
Concen: 39.535 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:138 Resp: 10264

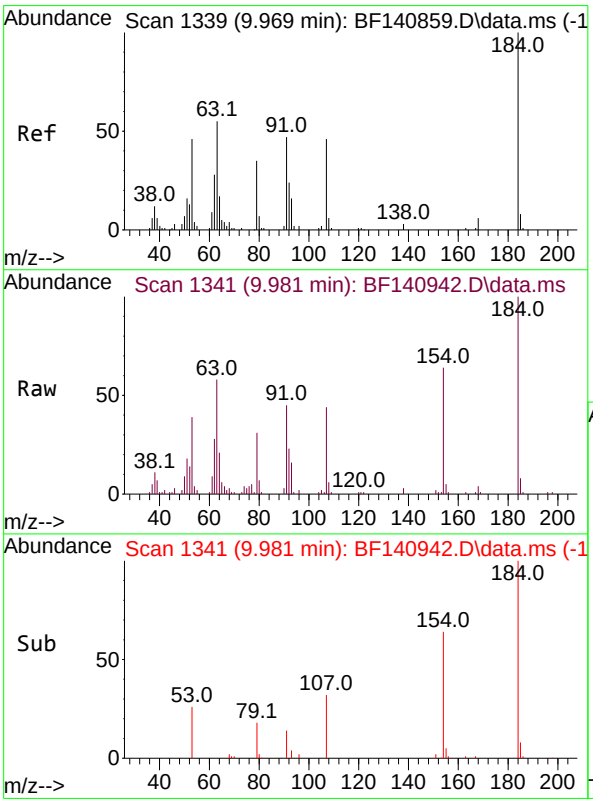
Ion	Ratio	Lower	Upper
138	100		
108	10.7	9.0	13.4
92	111.0	95.5	143.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

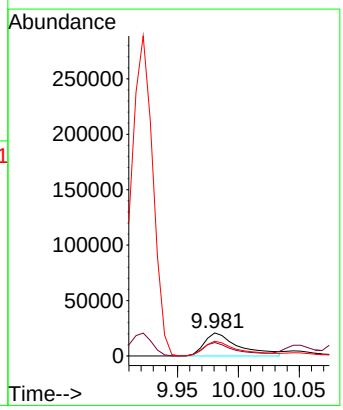
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

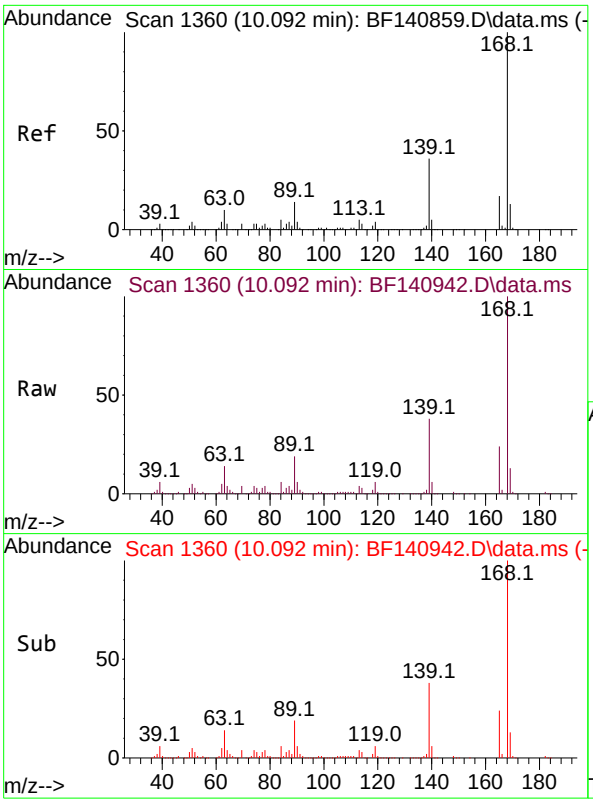


#54
2,4-Dinitrophenol
Concen: 36.272 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:184 Resp: 41330

Ion	Ratio	Lower	Upper
184	100		
63	58.3	51.6	77.4
154	64.1	56.1	84.1

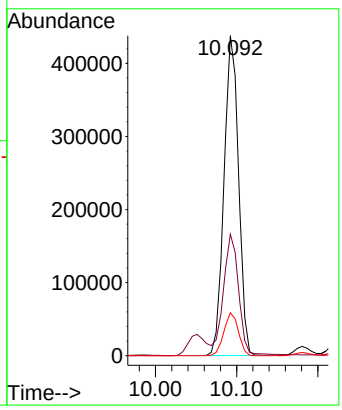




#55
Dibenzofuran
Concen: 38.012 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:168 Resp: 54597

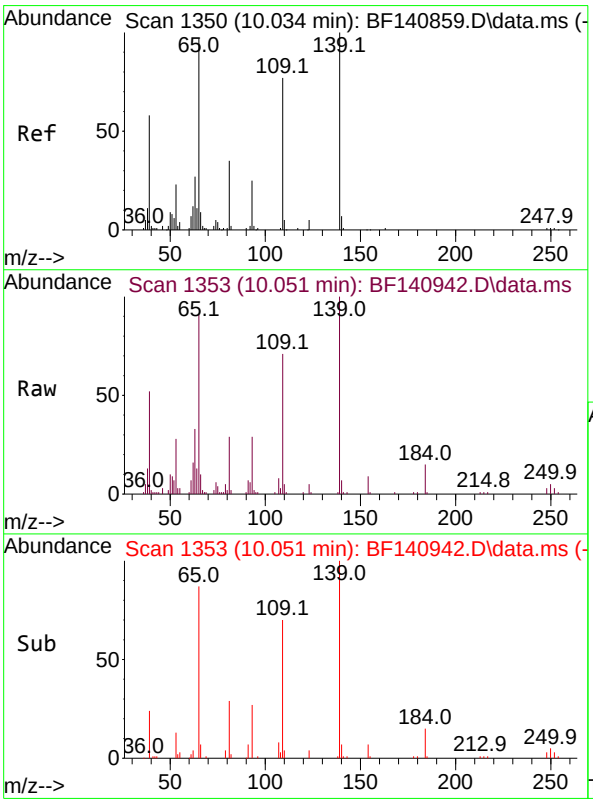
Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.1	46.7
169	13.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

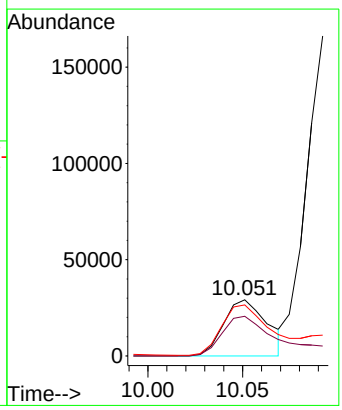
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

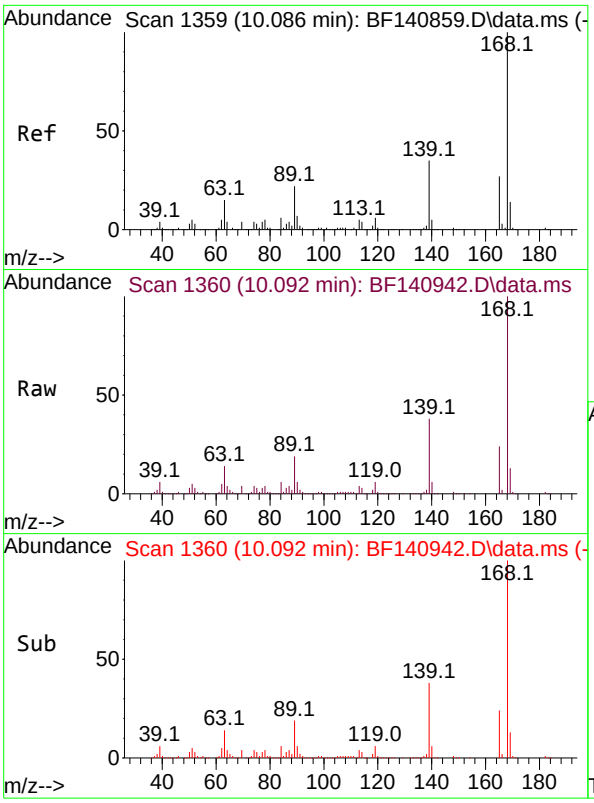


#56
4-Nitrophenol
Concen: 35.773 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:139 Resp: 46328

Ion	Ratio	Lower	Upper
139	100		
109	70.9	56.7	96.7
65	91.1	78.1	118.1

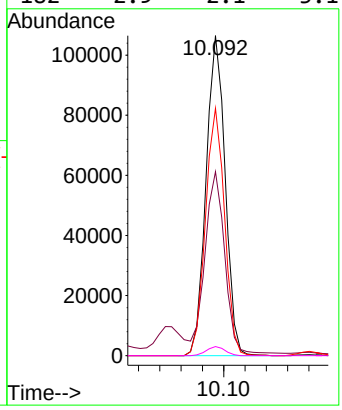




#57
2,4-Dinitrotoluene
Concen: 38.516 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:165 Resp: 13257

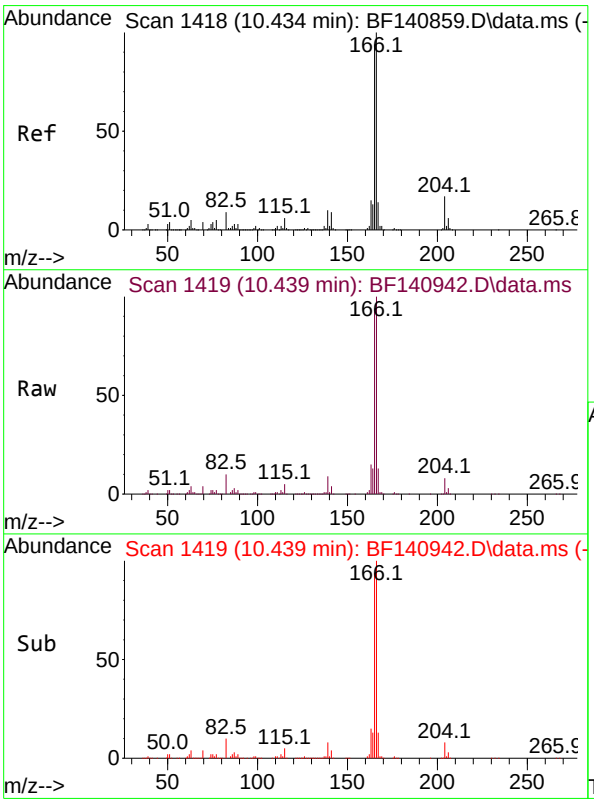
Ion	Ratio	Lower	Upper
165	100		
63	57.5	49.3	73.9
89	77.3	66.2	99.4
182	2.9	2.1	3.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

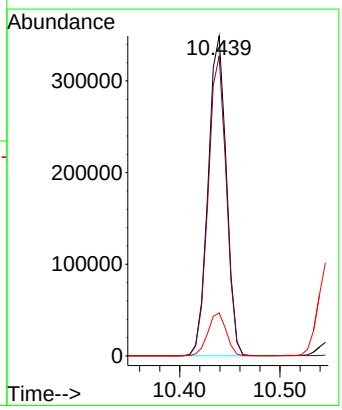
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

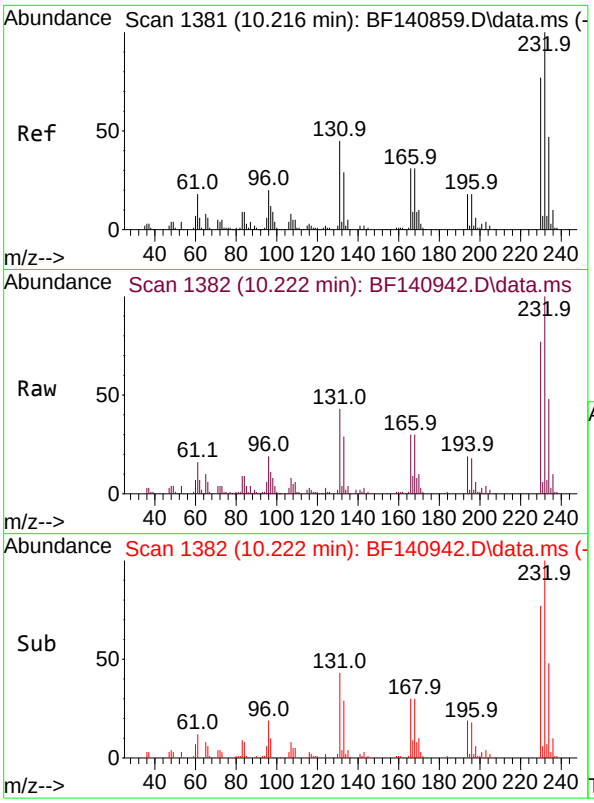


#58
Fluorene
Concen: 37.139 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:166 Resp: 440079

Ion	Ratio	Lower	Upper
166	100		
165	93.7	75.1	112.7
167	13.5	11.1	16.7





#59
2,3,4,6-Tetrachlorophenol
Concen: 37.214 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

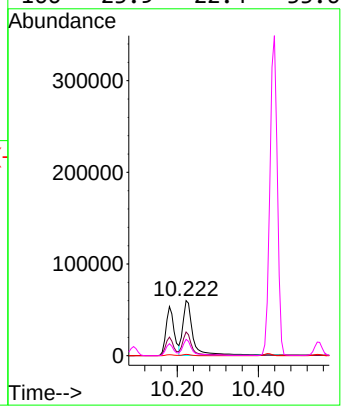
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

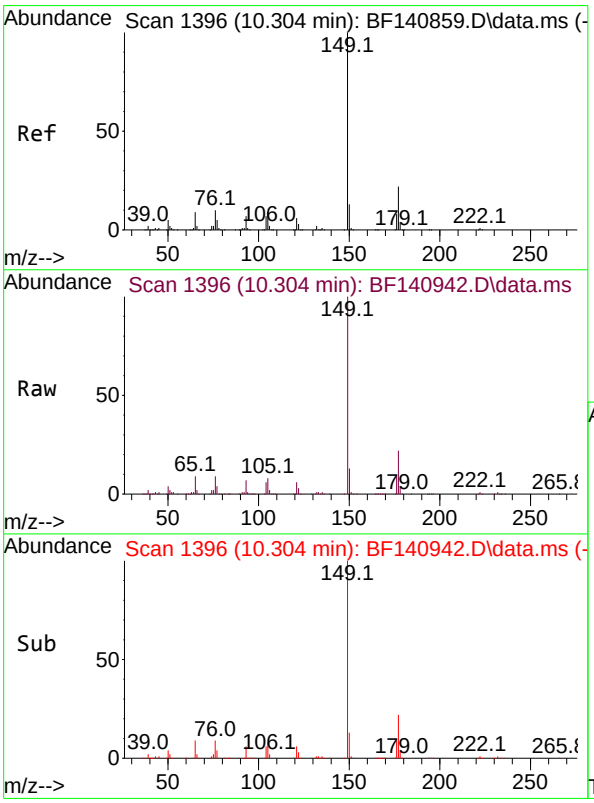
Tgt Ion:232 Resp: 10182

Ion	Ratio	Lower	Upper
232	100		
131	37.8	35.1	52.7
130	1.9	1.8	2.8
166	23.9	22.4	33.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

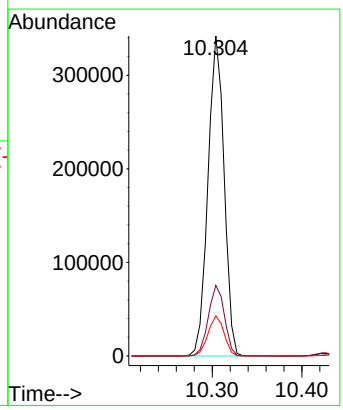


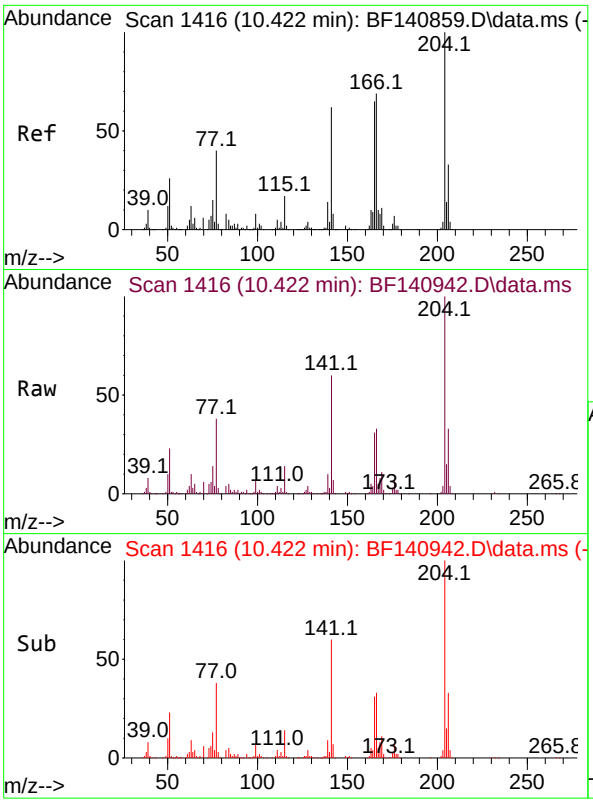


#60
Diethylphthalate
Concen: 35.936 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 426443

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.2	25.8
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 37.200 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

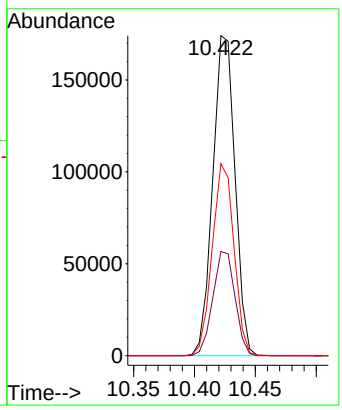
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

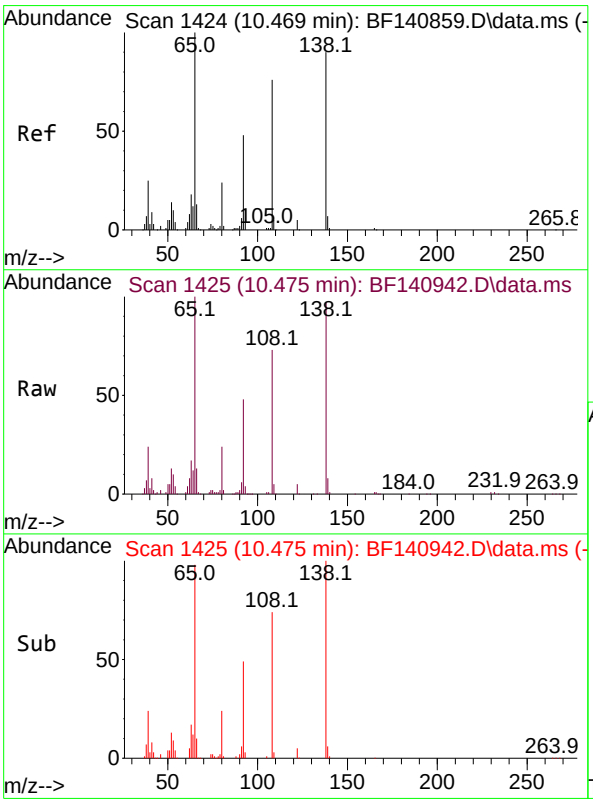
Tgt Ion:204 Resp: 22142

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.5	39.7
141	60.0	50.0	75.0

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

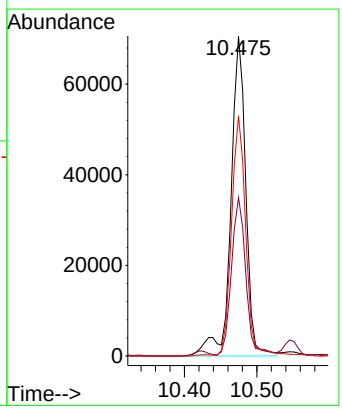


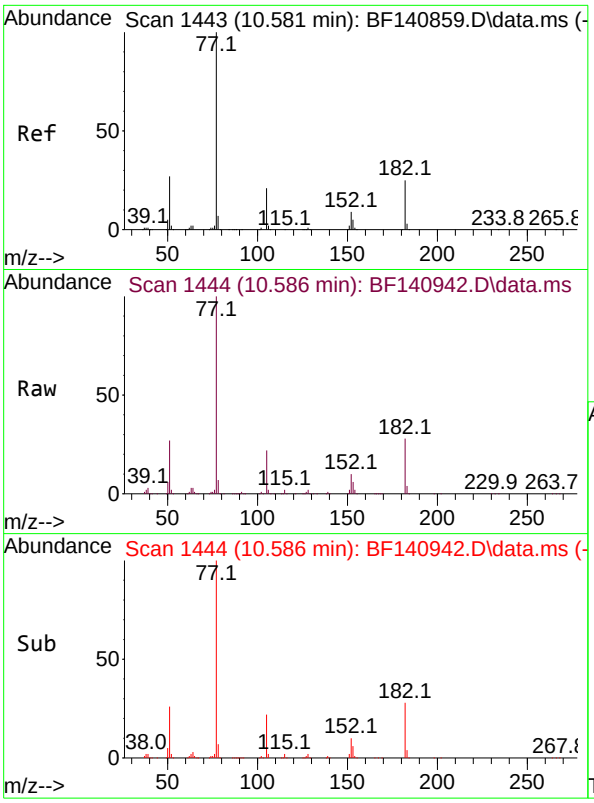


#62
4-Nitroaniline
Concen: 37.076 ng m
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:138 Resp: 100590

Ion	Ratio	Lower	Upper
138	100		
92	49.6	32.6	72.6
108	75.1	64.1	104.1

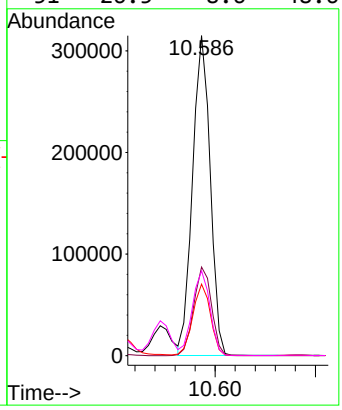




#63
Azobenzene
Concen: 34.454 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

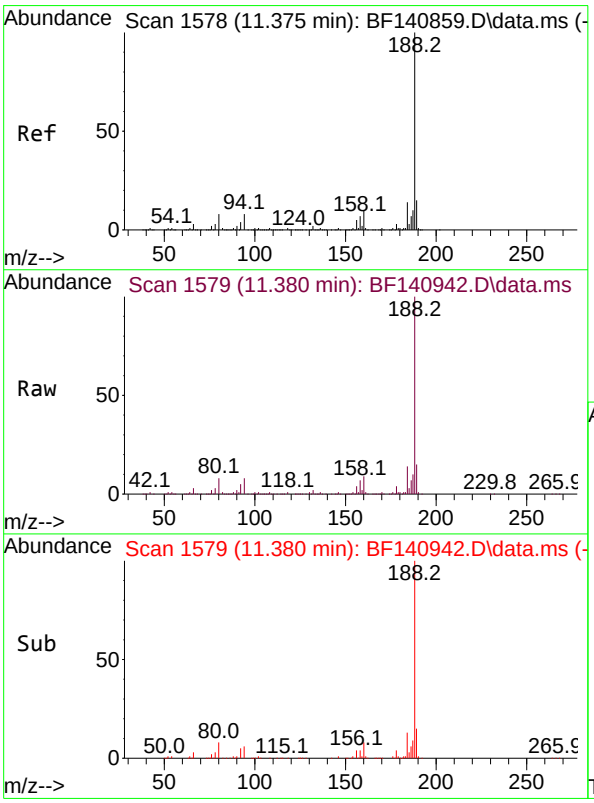
Tgt Ion: 77 Resp: 384375

Ion	Ratio	Lower	Upper
77	100		
182	27.7	4.5	44.5
105	22.3	0.9	40.9
51	26.5	8.6	48.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

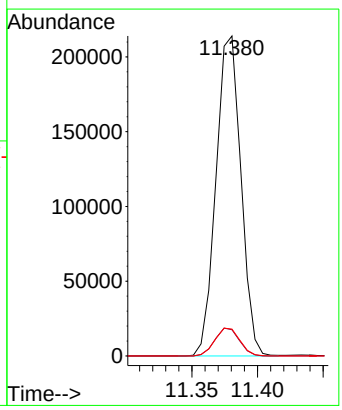
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

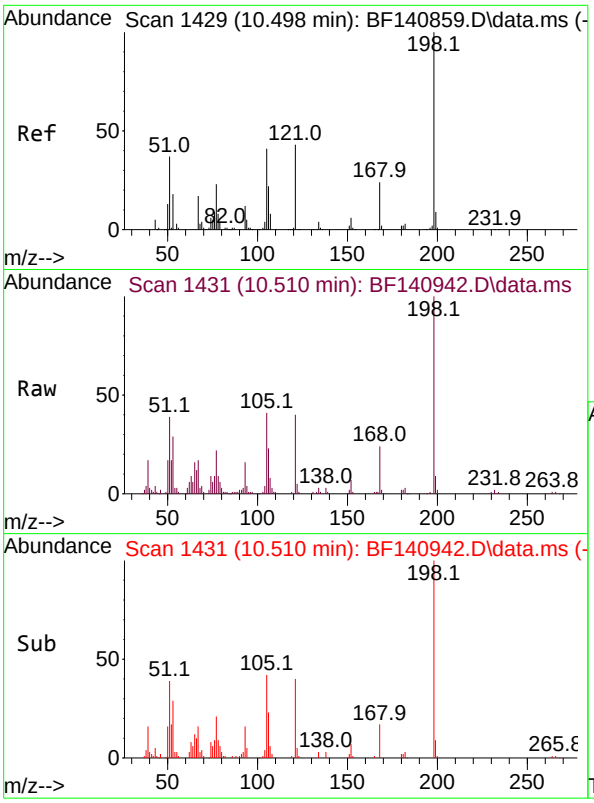


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:188 Resp: 282660

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	8.4	6.8	10.2

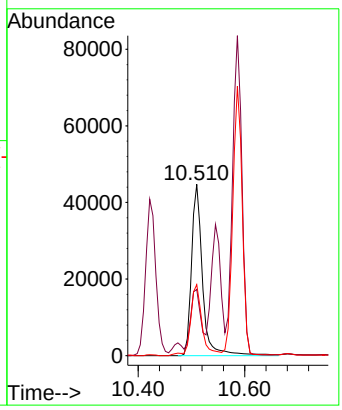




#65
4,6-Dinitro-2-methylphenol
Concen: 40.269 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:198 Resp: 6449

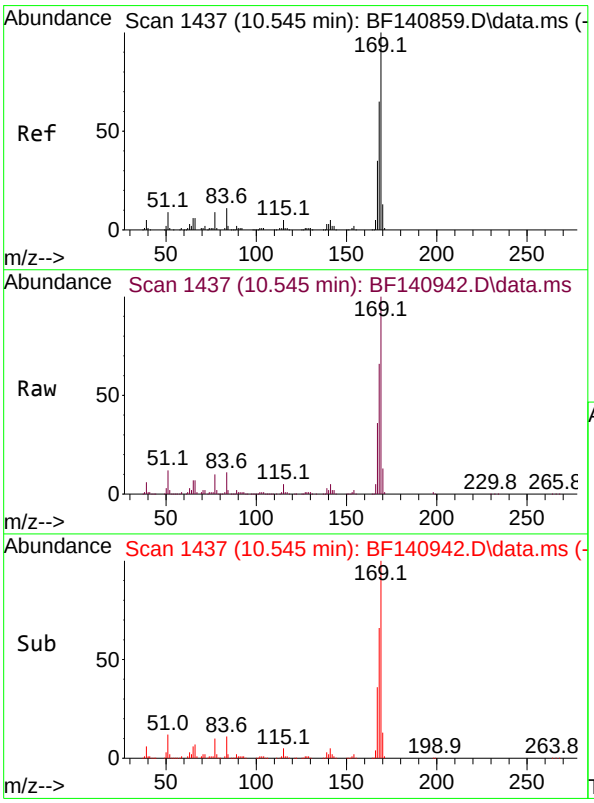
Ion	Ratio	Lower	Upper
198	100		
51	38.7	24.4	64.4
105	41.5	22.1	62.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

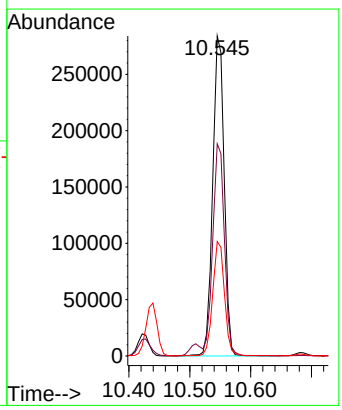
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

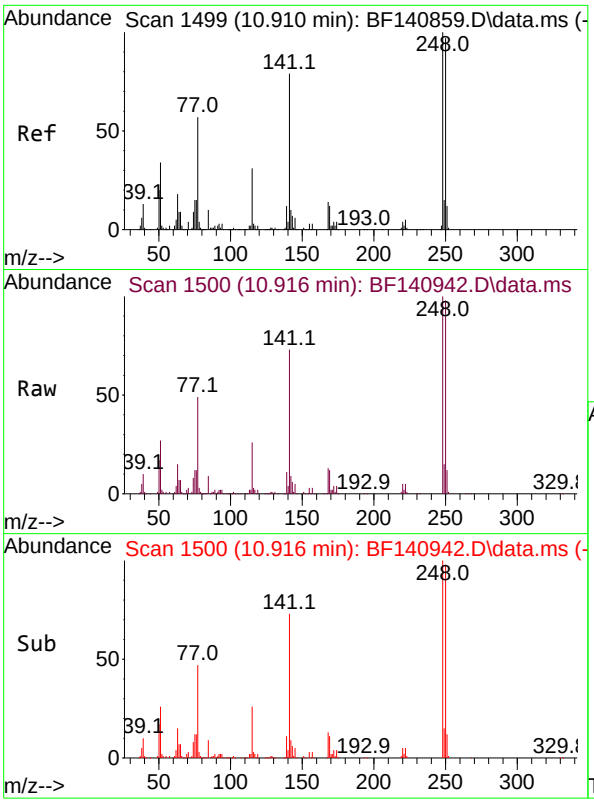


#66
n-Nitrosodiphenylamine
Concen: 42.748 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:169 Resp: 371501

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.4	80.0
167	35.8	28.3	42.5

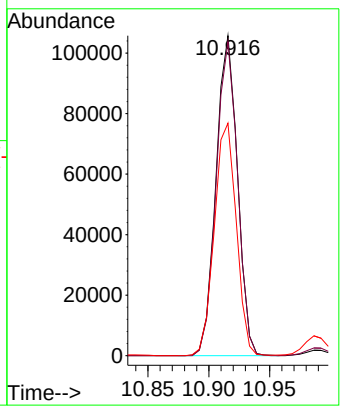




#67
4-Bromophenyl-phenylether
Concen: 41.055 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:248 Resp: 12982

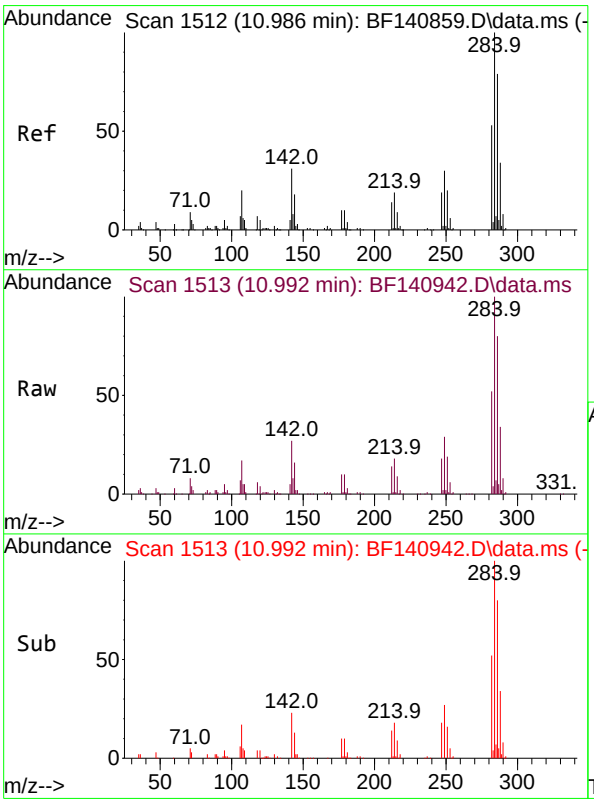
Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.4	116.2
141	72.6	62.9	94.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

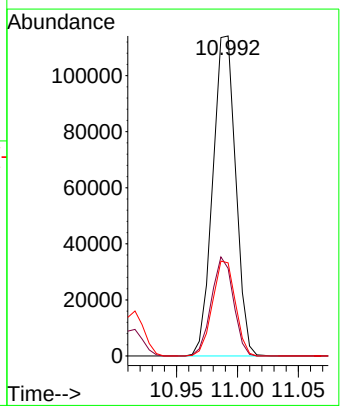
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

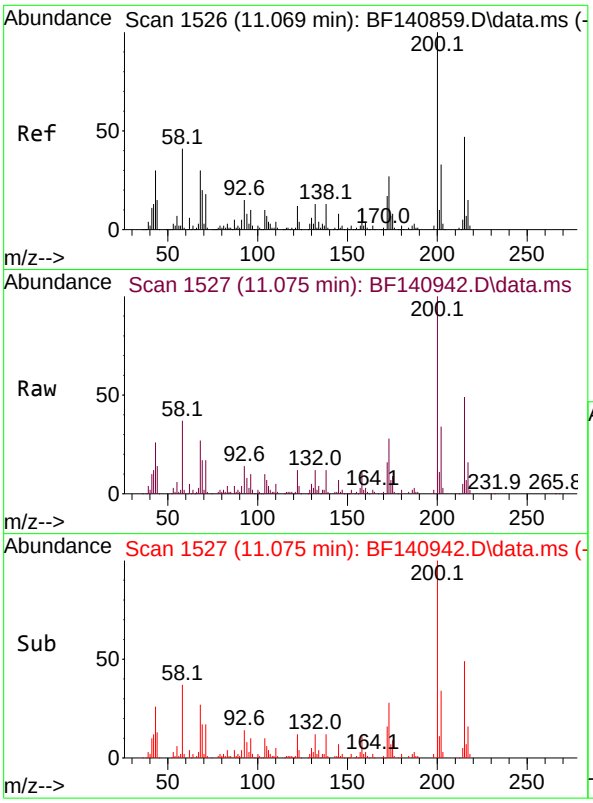


#68
Hexachlorobenzene
Concen: 41.697 ng
RT: 10.992 min Scan# 1513
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:284 Resp: 149493

Ion	Ratio	Lower	Upper
284	100		
142	27.4	24.6	36.8
249	29.1	24.3	36.5

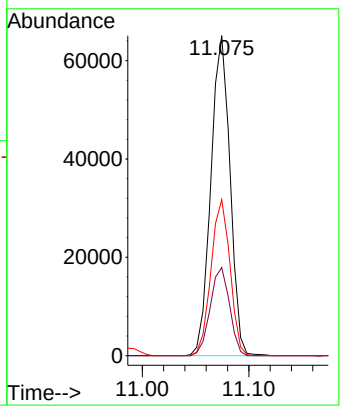




#69
Atrazine
Concen: 33.453 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:200 Resp: 8119

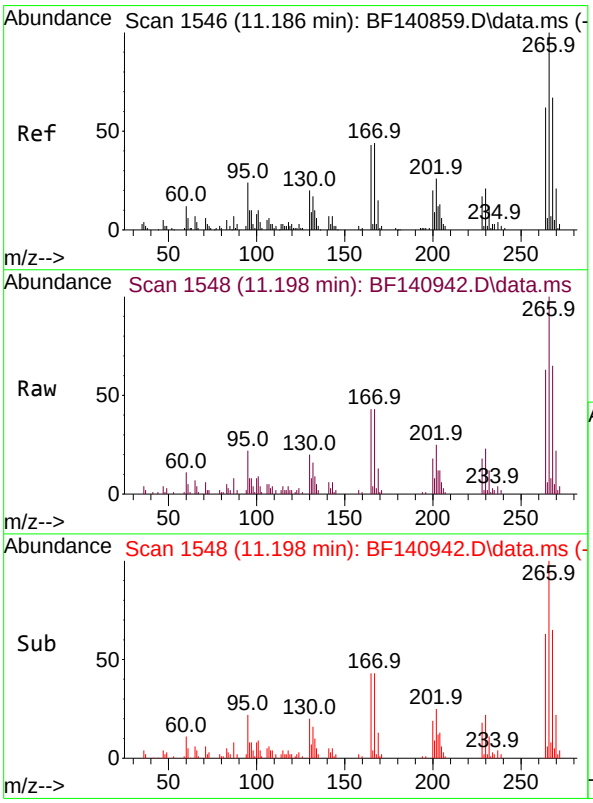
Ion	Ratio	Lower	Upper
200	100		
173	27.6	6.6	46.6
215	48.8	26.7	66.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

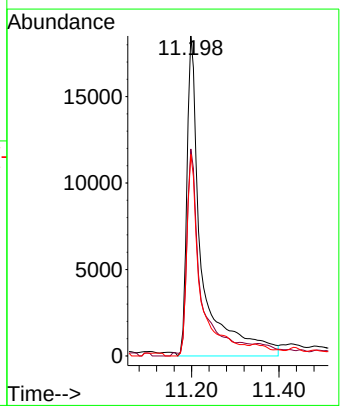
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

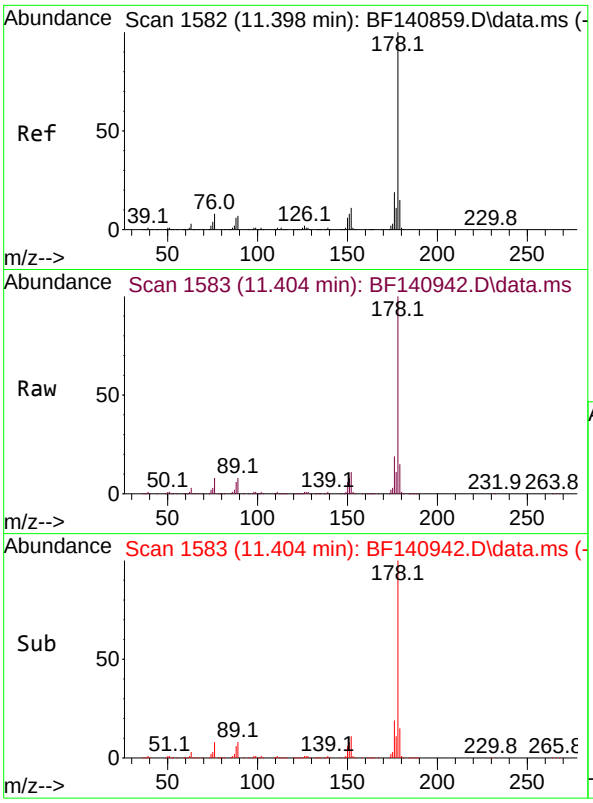


#70
Pentachlorophenol
Concen: 33.287 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:266 Resp: 43633

Ion	Ratio	Lower	Upper
266	100		
268	64.7	54.0	81.0
264	63.0	49.4	74.2

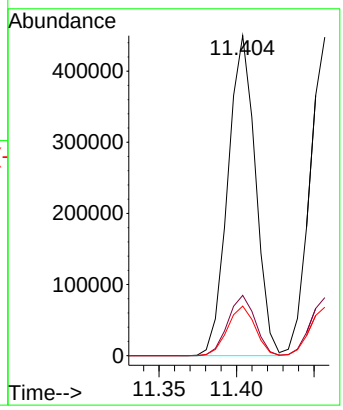




#71
Phenanthrene
Concen: 38.164 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:178 Resp: 55474

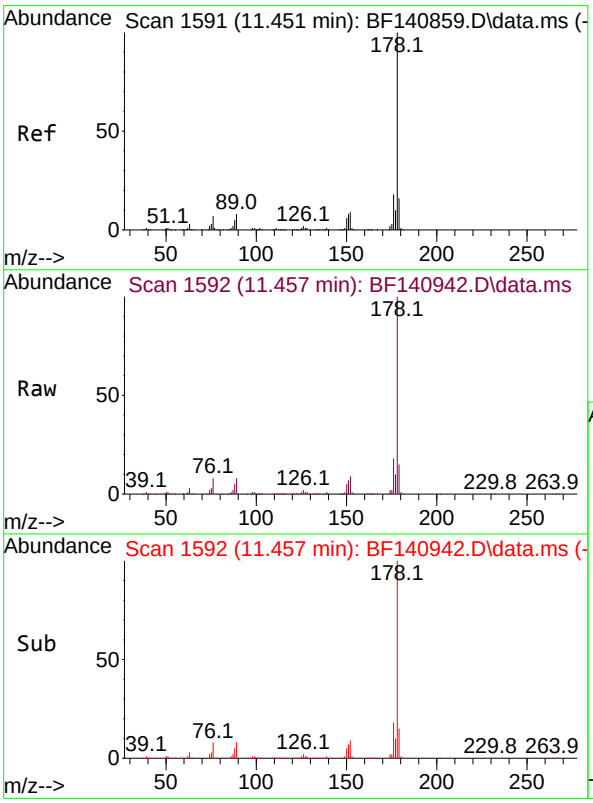
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.1	18.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

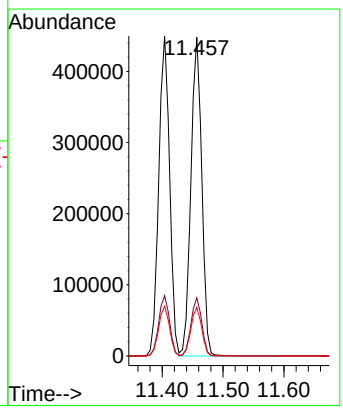
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

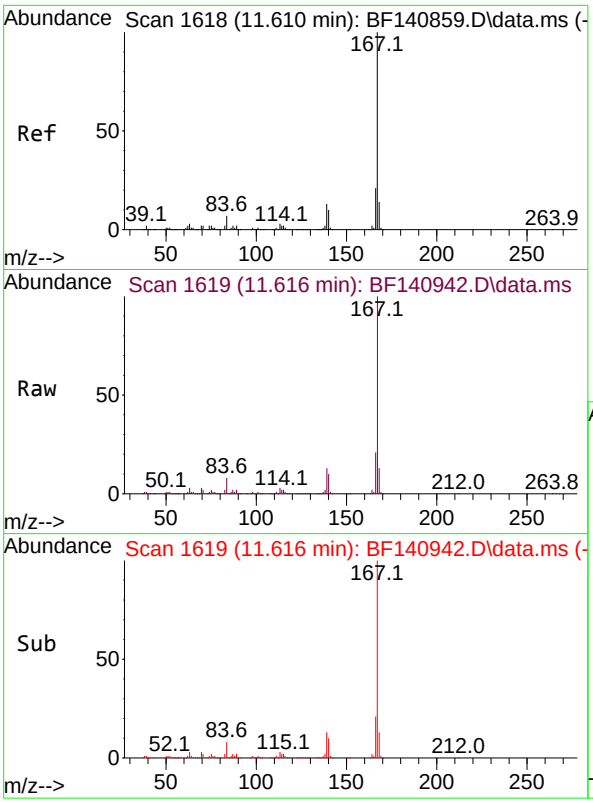


#72
Anthracene
Concen: 38.826 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:178 Resp: 555785

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.2	12.6	18.8

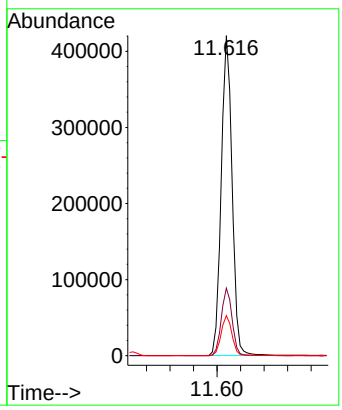




#73
Carbazole
Concen: 38.449 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:167 Resp: 53909

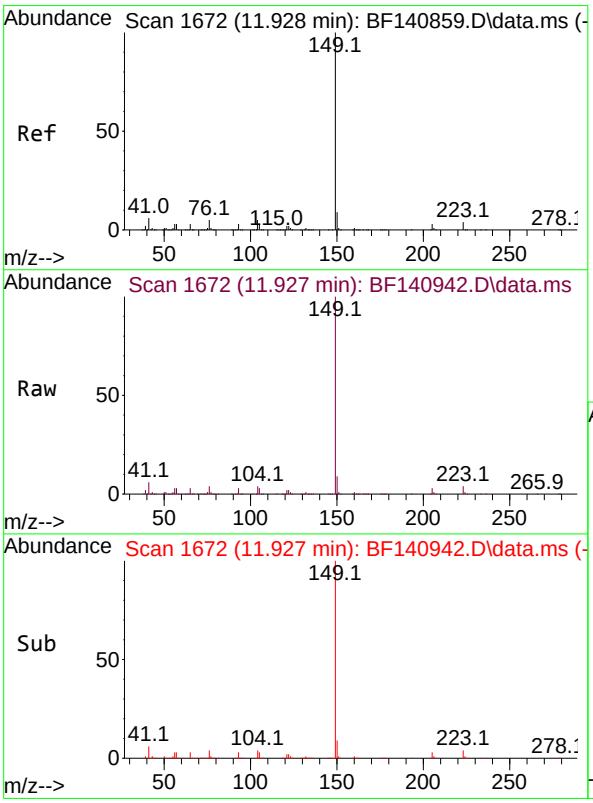
Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.0	25.6
139	12.5	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

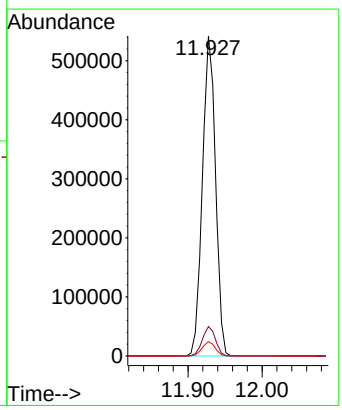
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

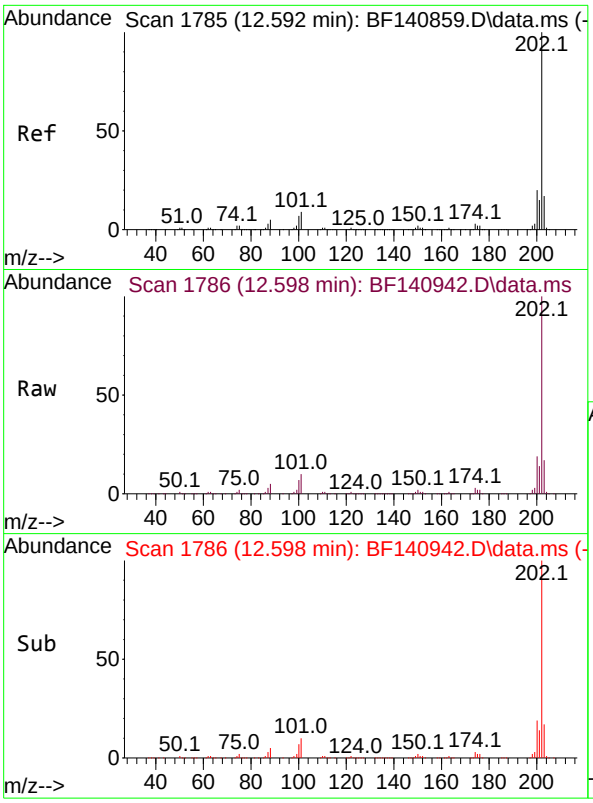


#74
Di-n-butylphthalate
Concen: 40.470 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 665945

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.5	3.8	5.8

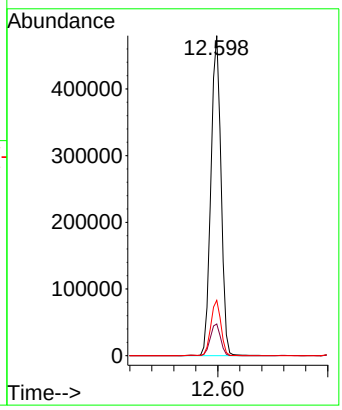




#75
Fluoranthene
Concen: 36.586 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:202 Resp: 61245

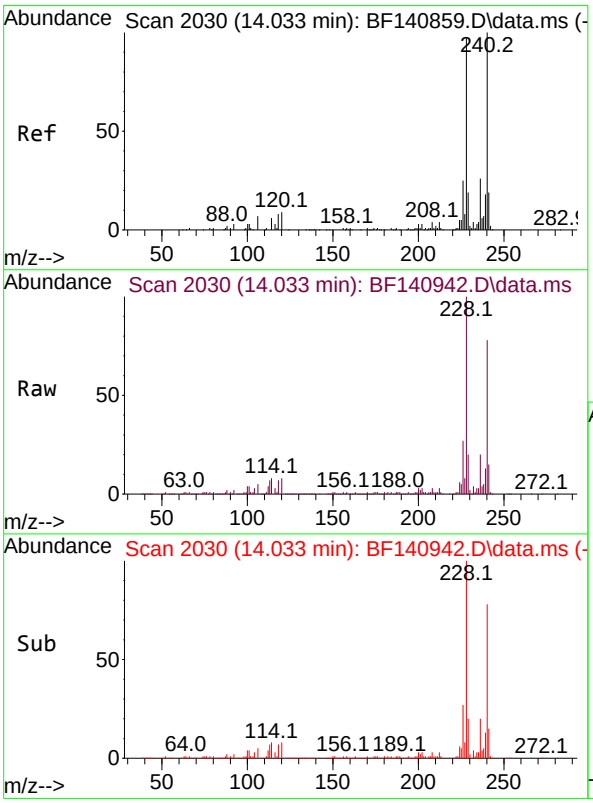
Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.3
203	17.3	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

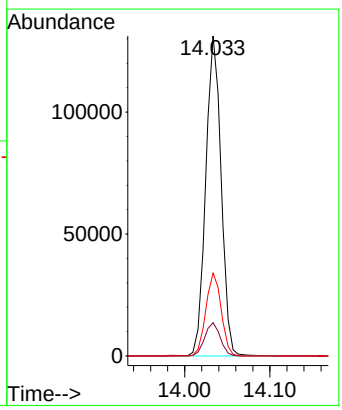
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

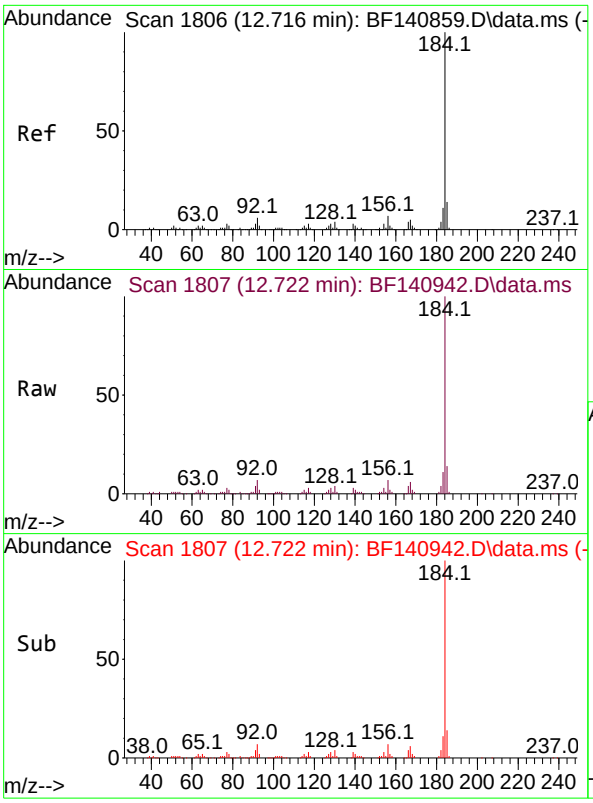


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:240 Resp: 164316

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.6	11.4
236	25.9	20.5	30.7





#77
Benzidine
Concen: 34.399 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

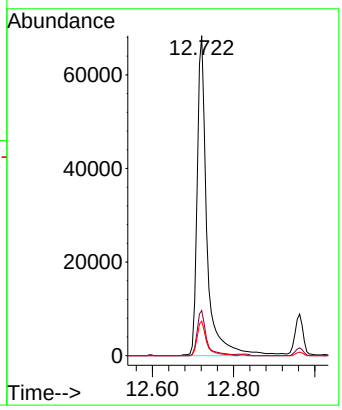
Tgt Ion:184 Resp: 11536

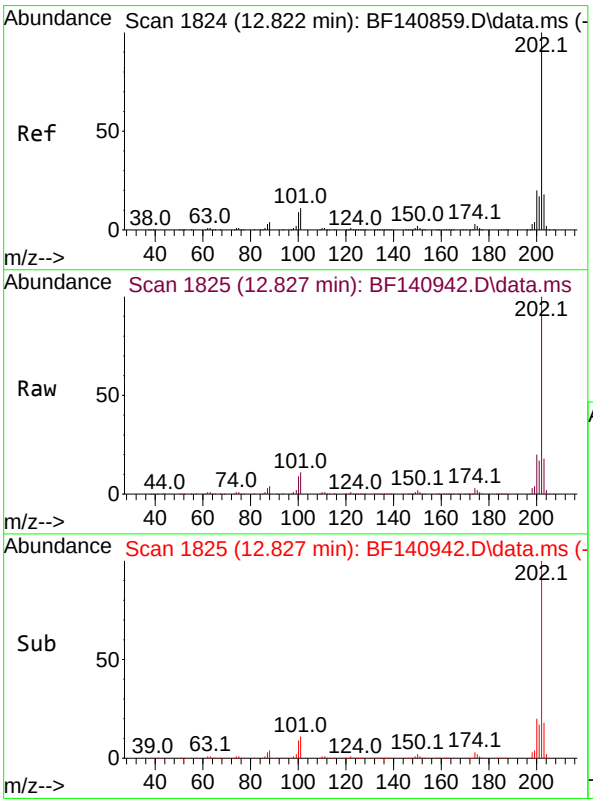
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.1	16.7
183	10.8	9.0	13.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

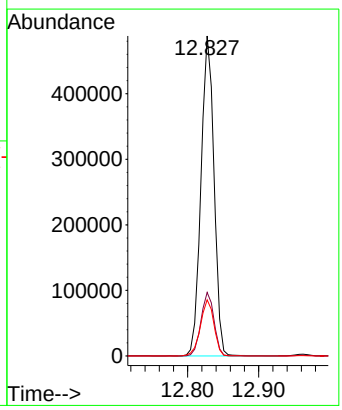


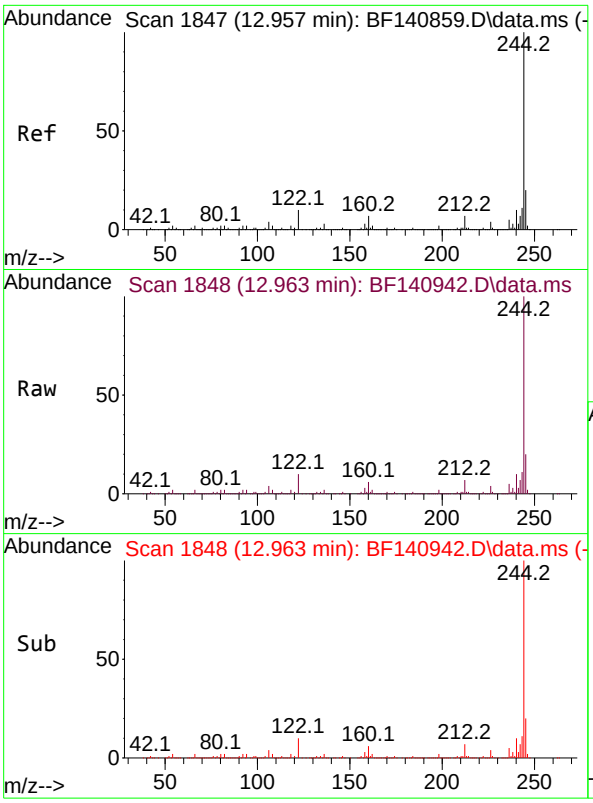


#78
Pyrene
Concen: 42.817 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:202 Resp: 625636

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.1	24.1
203	17.6	14.2	21.4

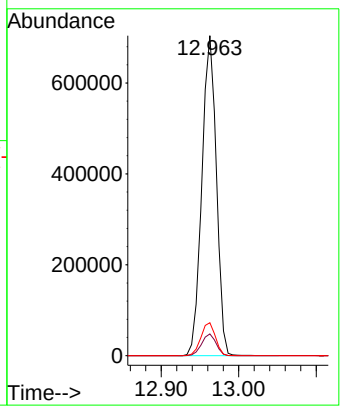




#79
Terphenyl-d14
Concen: 87.865 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:244 Resp: 91559

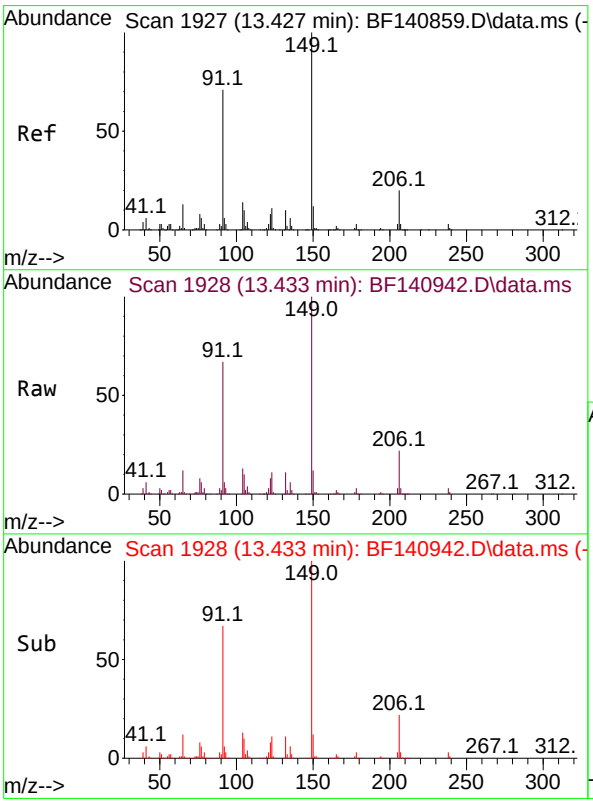
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.3	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

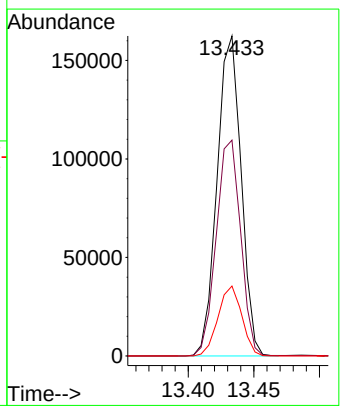
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

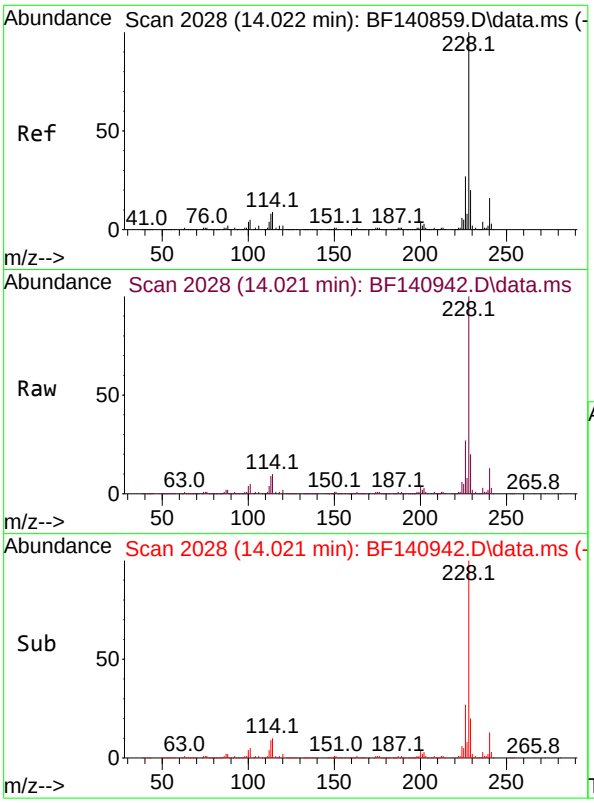


#80
Butylbenzylphthalate
Concen: 38.545 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 207238

Ion	Ratio	Lower	Upper
149	100		
91	67.4	56.7	85.1
206	21.8	16.4	24.6

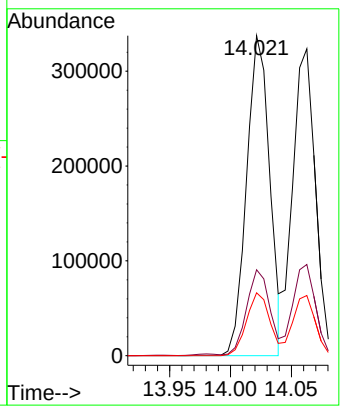




#81
Benzo(a)anthracene
Concen: 38.254 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:228 Resp: 44549

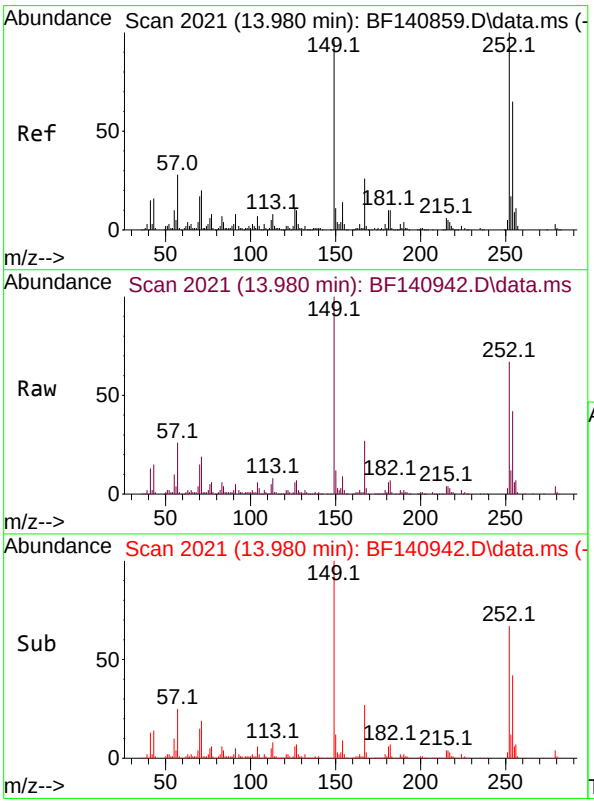
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.7	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

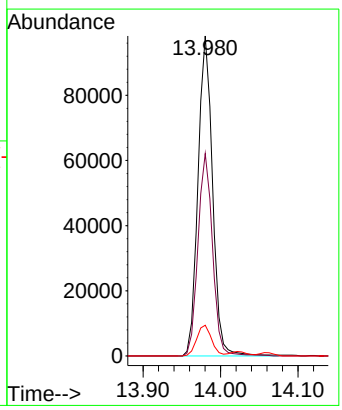
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

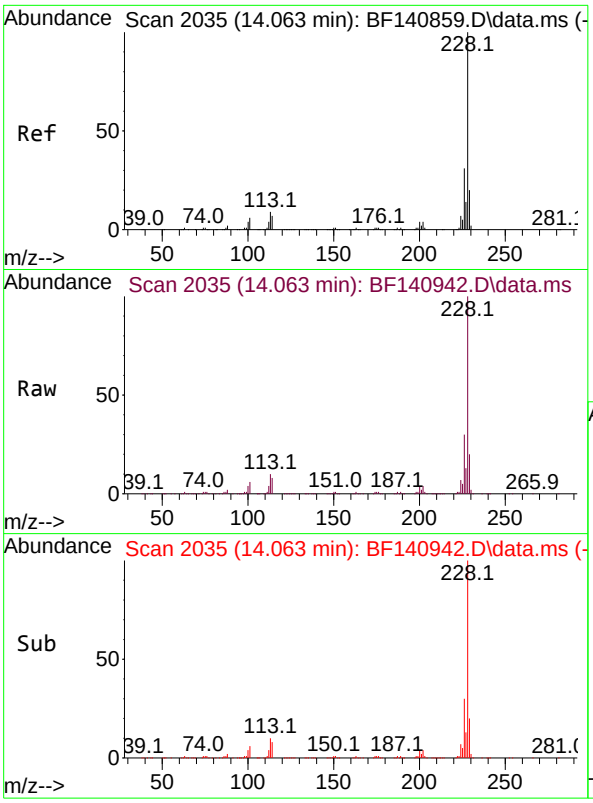


#82
3,3'-Dichlorobenzidine
Concen: 36.483 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 128185

Ion	Ratio	Lower	Upper
252	100		
254	63.3	52.3	78.5
126	9.6	8.4	12.6





#83
Chrysene
Concen: 39.695 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

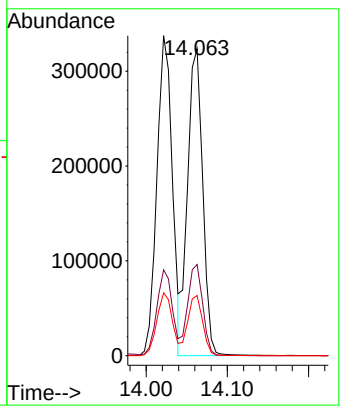
Tgt Ion:228 Resp: 42036

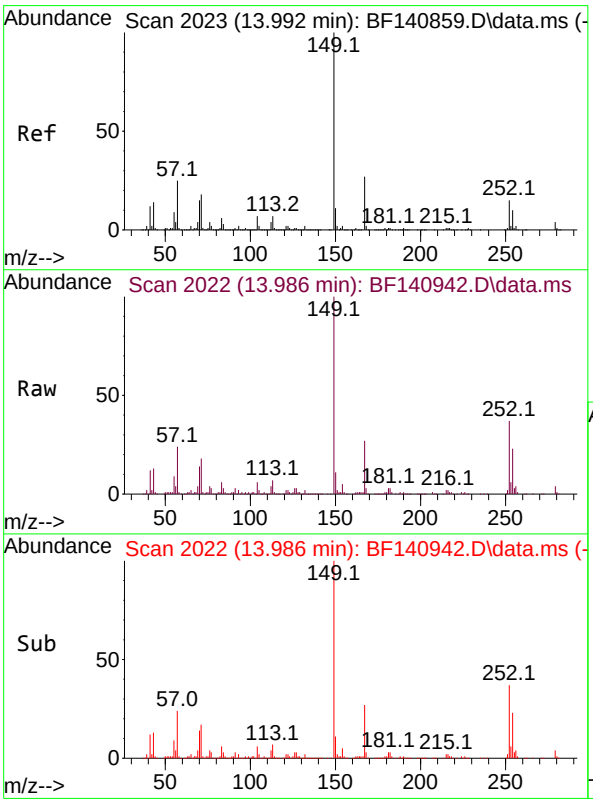
Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	19.6	16.0	24.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

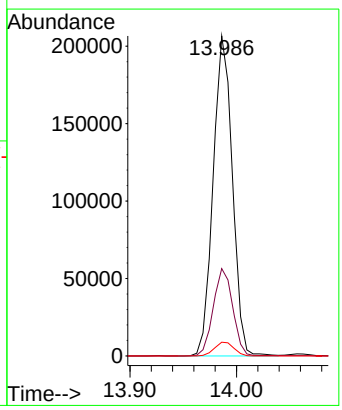


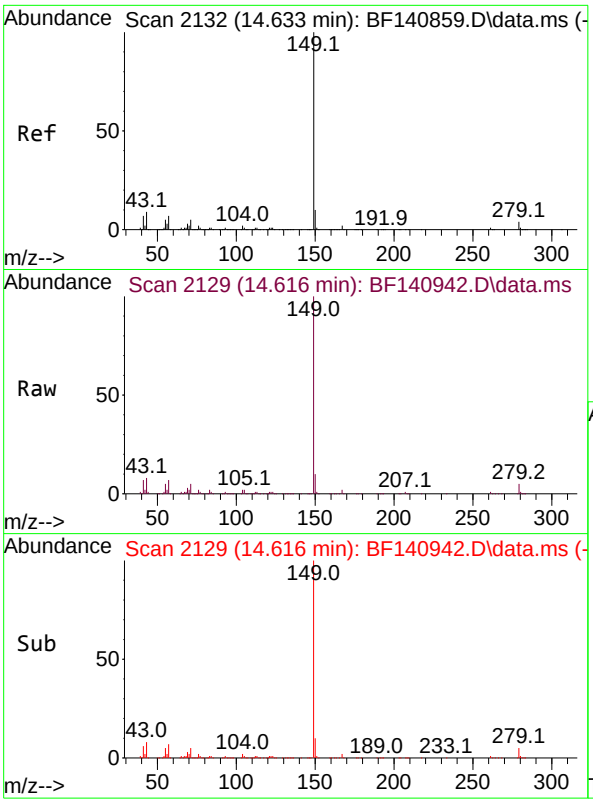


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.409 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 259339

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.8
279	4.3	3.5	5.3

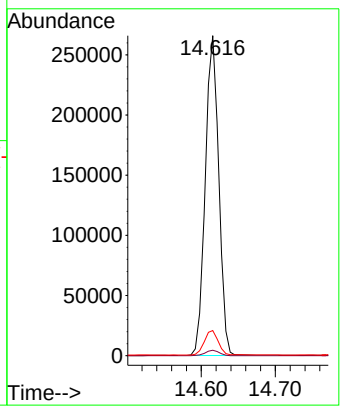




#85
Di-n-octyl phthalate
Concen: 32.062 ng
RT: 14.616 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 33627

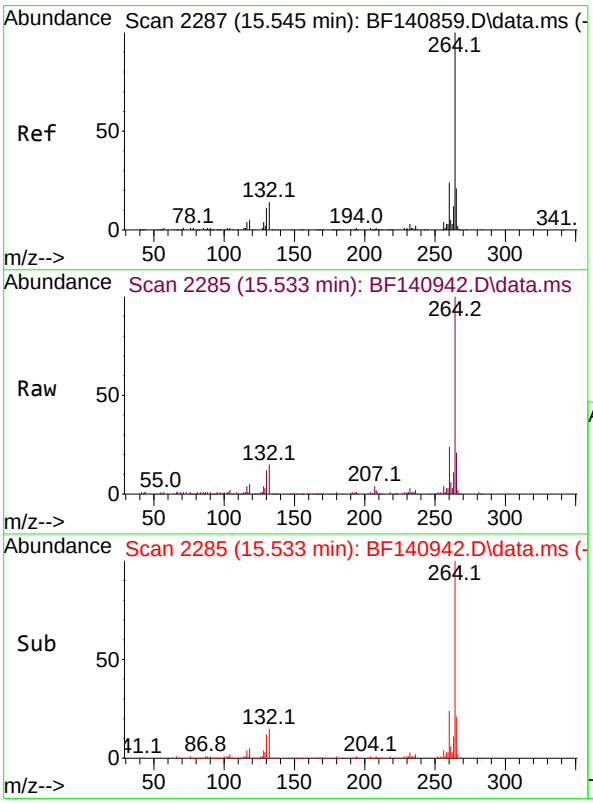
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	8.1	7.0	10.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

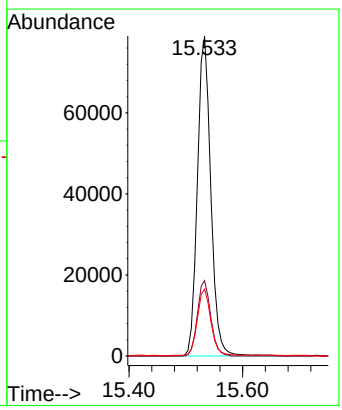
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

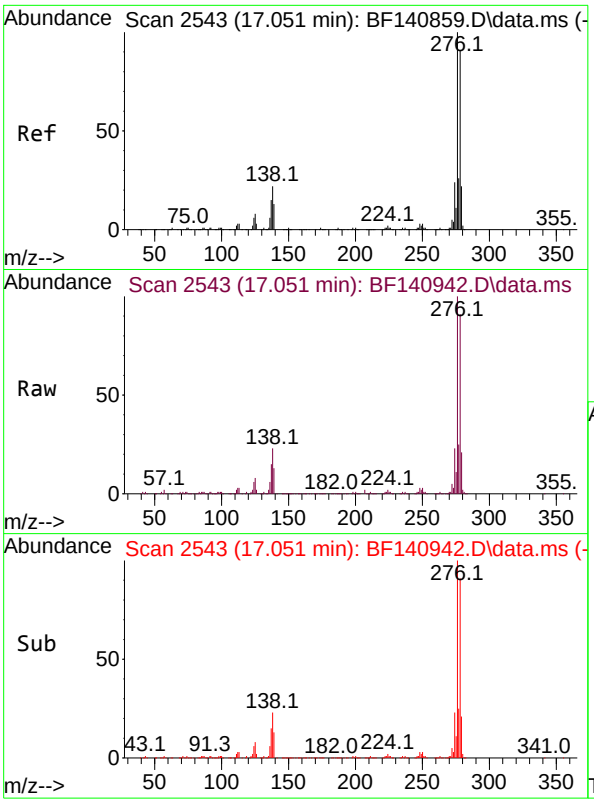


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:264 Resp: 129329

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	20.9	17.0	25.4

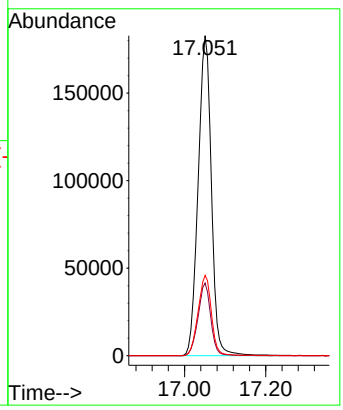




#87
Indeno(1,2,3-cd)pyrene
Concen: 51.437 ng
RT: 17.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:276 Resp: 41512

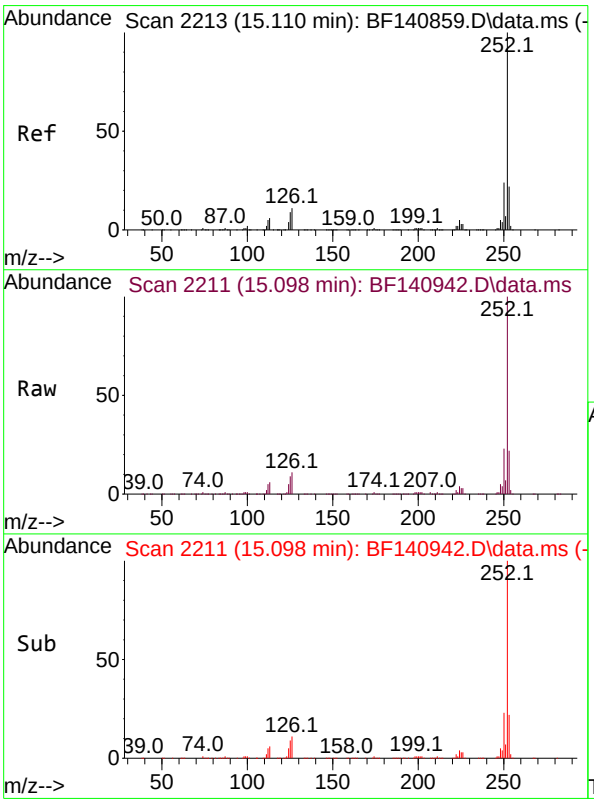
Ion	Ratio	Lower	Upper
276	100		
138	21.8	16.9	25.3
277	25.2	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

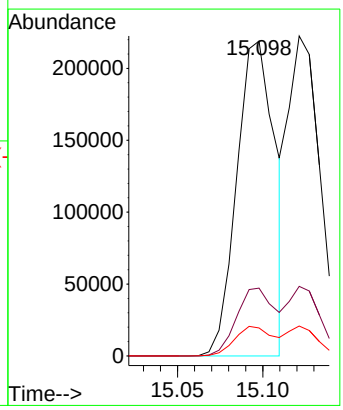
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

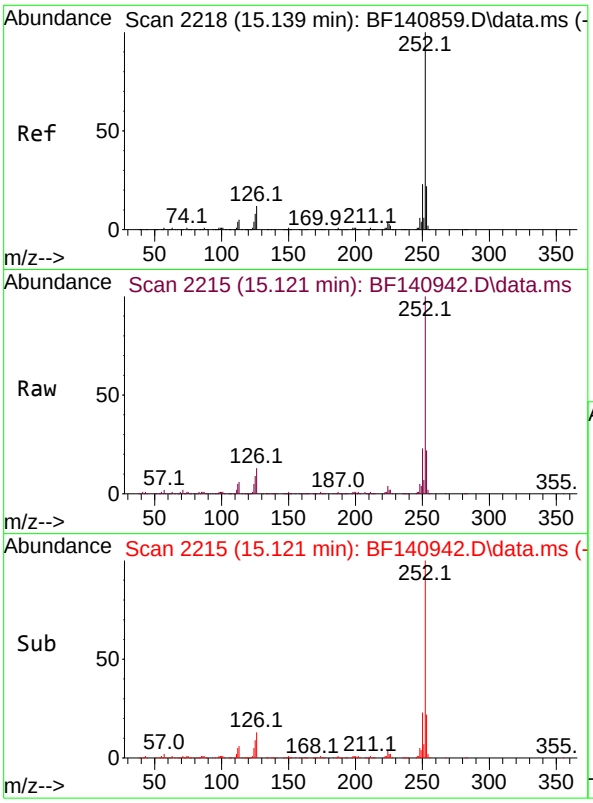


#88
Benzo(b)fluoranthene
Concen: 38.004 ng
RT: 15.098 min Scan# 2211
Delta R.T. -0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 341178

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	8.9	7.0	10.4

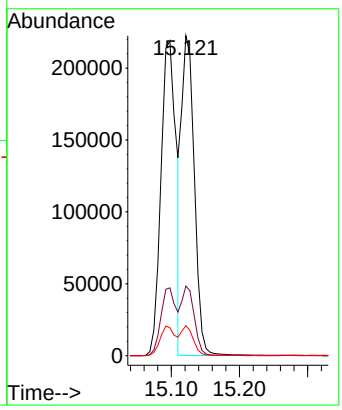




#89
Benzo(k)fluoranthene
Concen: 37.736 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 29059

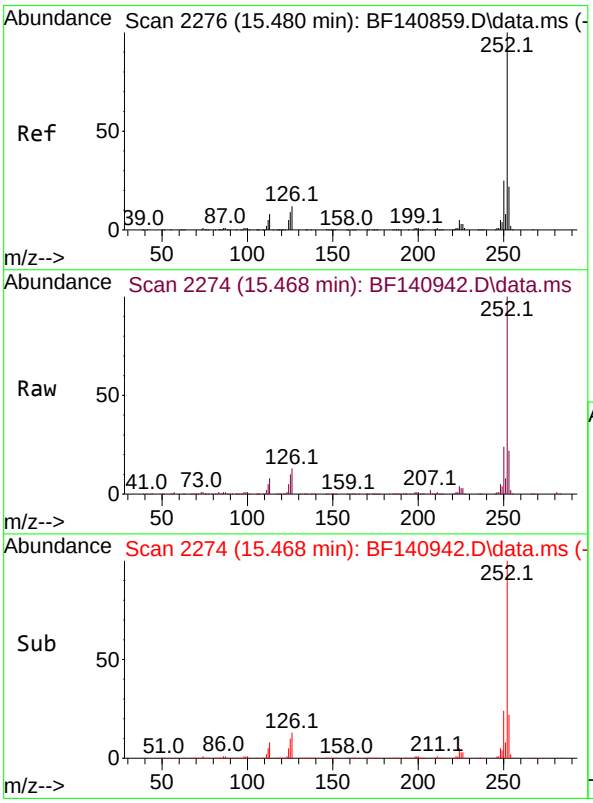
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.3	6.8	10.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

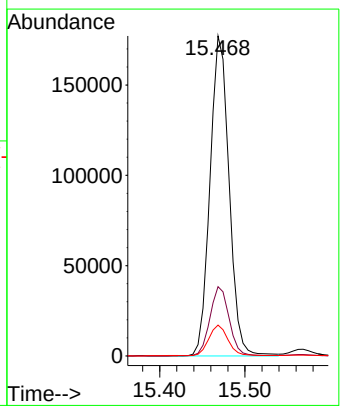
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

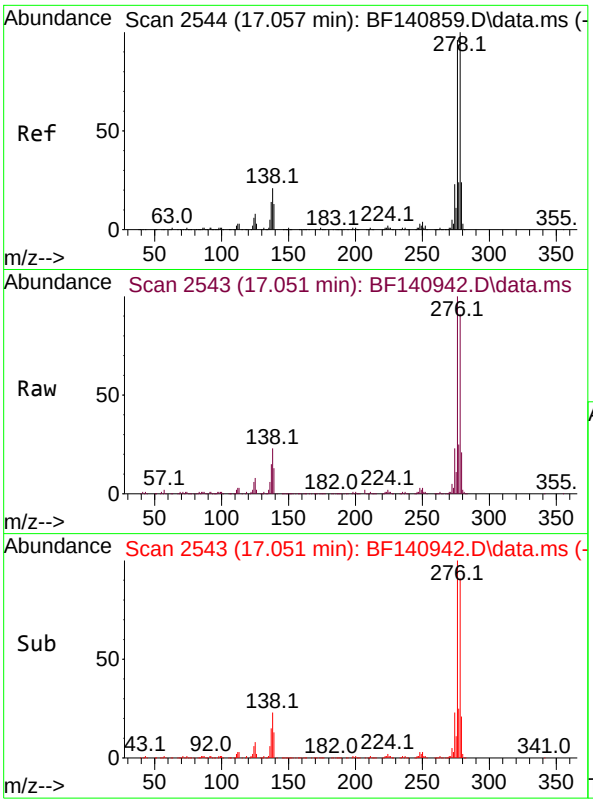


#90
Benzo(a)pyrene
Concen: 39.241 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 275845

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.6	7.5	11.3

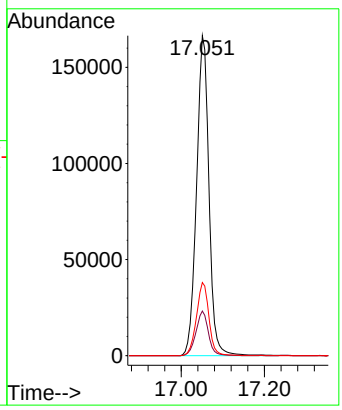




#91
Dibenzo(a,h)anthracene
Concen: 51.627 ng
RT: 17.051 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:278 Resp: 34518

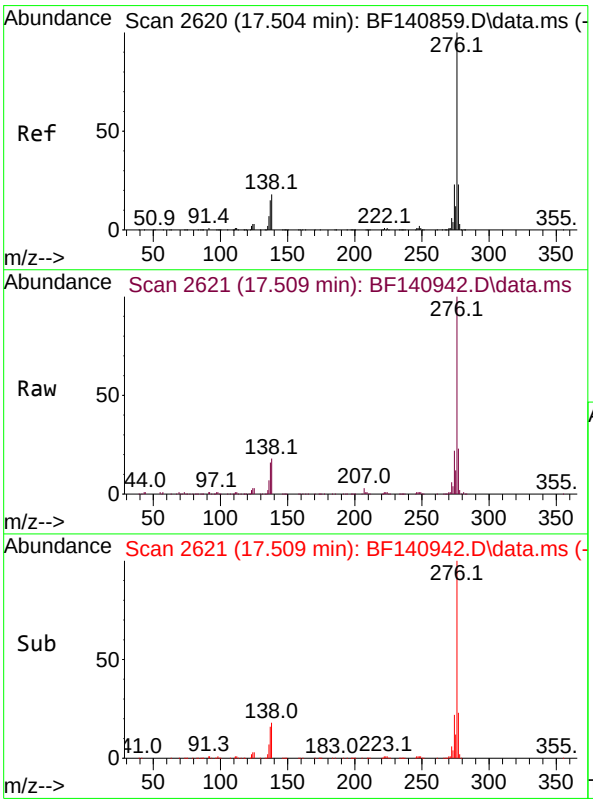
Ion	Ratio	Lower	Upper
278	100		
139	13.9	10.6	16.0
279	22.9	19.2	28.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

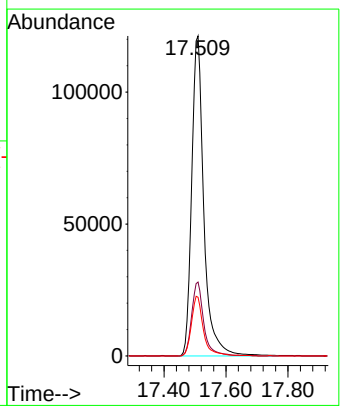
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#92
Benzo(g,h,i)perylene
Concen: 48.503 ng
RT: 17.509 min Scan# 2621
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:276 Resp: 330062

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	18.4	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2		1,4-Dioxane	0.523	0.501	4.2	96	0.00
3		Pyridine	1.212	1.180	2.6	93	0.00
4		n-Nitrosodimethylamine	0.611	0.543	11.1	87	0.00
5	S	2-Fluorophenol	1.215	1.104	9.1	89	0.00
6		Aniline	1.376	1.285	6.6	90	0.00
7	S	Phenol-d6	1.609	1.494	7.1	92	0.00
8		2-Chlorophenol	1.325	1.292	2.5	96	0.00
9		Benzaldehyde	0.892	0.796	10.8	89	0.00
10	C	Phenol	1.668	1.561	6.4	92	0.01
11		bis(2-Chloroethyl)ether	1.244	1.156	7.1	91	0.00
12		1,3-Dichlorobenzene	1.510	1.475	2.3	97	0.00
13	C	1,4-Dichlorobenzene	1.532	1.470	4.0	95	0.00
14		1,2-Dichlorobenzene	1.446	1.394	3.6	94	0.00
15		Benzyl Alcohol	1.151	1.079	6.3	90	0.00
16		2,2'-oxybis(1-Chloropropane	1.465	1.317	10.1	88	0.00
17		2-Methylphenol	1.058	1.007	4.8	93	0.00
18		Hexachloroethane	0.570	0.521	8.6	90	0.00
19	P	n-Nitroso-di-n-propylamine	0.965	0.859	11.0	90	0.00
20		3+4-Methylphenols	1.403	1.351	3.7	96	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
22		Acetophenone	0.500	0.486	2.8	91	0.00
23	S	Nitrobenzene-d5	0.400	0.385	3.8	91	0.00
24		Nitrobenzene	0.410	0.382	6.8	88	0.00
25		Isophorone	0.670	0.637	4.9	91	0.00
26	C	2-Nitrophenol	0.189	0.198	-4.8	98	0.00
27		2,4-Dimethylphenol	0.220	0.222	-0.9	93	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.406	2.9	90	0.00
29	C	2,4-Dichlorophenol	0.304	0.299	1.6	93	0.00
30		1,2,4-Trichlorobenzene	0.349	0.346	0.9	94	0.00
31		Naphthalene	1.099	1.079	1.8	93	0.00
32		Benzoic acid	0.209	0.181	13.4	79	0.01
33		4-Chloroaniline	0.365	0.358	1.9	92	0.00
34	C	Hexachlorobutadiene	0.235	0.225	4.3	89	0.00
35		Caprolactam	0.091	0.084	7.7	86	0.01
36	C	4-Chloro-3-methylphenol	0.342	0.320	6.4	88	0.00
37		2-Methylnaphthalene	0.727	0.696	4.3	89	0.00
38		1-Methylnaphthalene	0.719	0.679	5.6	89	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	0.615	0.574	6.7	90	0.00
41	P	Hexachlorocyclopentadiene	0.153	0.117	23.5	75	0.00
42	S	2,4,6-Tribromophenol	0.237	0.214	9.7	81	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.341	9.3	85	0.00
44		2,4,5-Trichlorophenol	0.414	0.369	10.9	84	0.00
45	S	2-Fluorobiphenyl	1.455	1.340	7.9	89	0.00
46		1,1'-Biphenyl	1.590	1.490	6.3	89	0.00
47		2-Chloronaphthalene	1.217	1.152	5.3	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	0.367	0.325	11.4	82	0.00
49		Acenaphthylene	1.788	1.741	2.6	91	0.00
50		Dimethylphthalate	1.410	1.310	7.1	87	0.00
51		2,6-Dinitrotoluene	0.322	0.318	1.2	92	0.00
52	C	Acenaphthene	1.142	1.107	3.1	90	0.00
53		3-Nitroaniline	0.320	0.316	1.3	91	0.00
54	P	2,4-Dinitrophenol	0.132	0.127	3.8	86	0.01
55		Dibenzofuran	1.770	1.682	5.0	88	0.00
56	P	4-Nitrophenol	0.150	0.143	4.7	78	0.02
57		2,4-Dinitrotoluene	0.424	0.408	3.8	88	0.00
58		Fluorene	1.460	1.356	7.1	85	0.00
59		2,3,4,6-Tetrachlorophenol	0.337	0.314	6.8	80	0.00
60		Diethylphthalate	1.462	1.314	10.1	83	0.00
61		4-Chlorophenyl-phenylether	0.733	0.682	7.0	86	0.00
62		4-Nitroaniline	0.334	0.310	7.2	83	0.00
63		Azobenzene	1.375	1.184	13.9	78	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.114	-0.9	76	0.01
66	c	n-Nitrosodiphenylamine	0.615	0.657	-6.8	86	0.00
67		4-Bromophenyl-phenylether	0.224	0.230	-2.7	82	0.00
68		Hexachlorobenzene	0.254	0.264	-3.9	84	0.00
69		Atrazine	0.172	0.144	16.3	67	0.00
70	C	Pentachlorophenol	0.093	0.077	17.2	62	0.01
71		Phenanthrene	1.028	0.981	4.6	78	0.00
72		Anthracene	1.013	0.983	3.0	79	0.00
73		Carbazole	0.992	0.954	3.8	78	0.00
74		Di-n-butylphthalate	1.164	1.178	-1.2	82	0.00
75	C	Fluoranthene	1.184	1.083	8.5	75	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	68	0.00
77		Benzidine	0.408	0.351	14.0	59	0.00
78		Pyrene	1.779	1.904	-7.0	76	0.00
79	S	Terphenyl-d14	1.268	1.393	-9.9	79	0.00
80		Butylbenzylphthalate	0.654	0.631	3.5	67	0.00
81		Benzo(a)anthracene	1.417	1.356	4.3	68	0.00
82		3,3'-Dichlorobenzidine	0.428	0.390	8.9	65	0.00
83		Chrysene	1.289	1.279	0.8	69	0.00
84		Bis(2-ethylhexyl)phthalate	0.844	0.789	6.5	65	0.00
85	c	Di-n-octyl phthalate	1.277	1.023	19.9	57	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	64	-0.01
87		Indeno(1,2,3-cd)pyrene	1.248	1.605	-28.6#	81	0.00
88		Benzo(b)fluoranthene	1.388	1.319	5.0	65	-0.01
89		Benzo(k)fluoranthene	1.191	1.123	5.7	59	-0.02
90	C	Benzo(a)pyrene	1.087	1.066	1.9	63	-0.01
91		Dibenzo(a,h)anthracene	1.034	1.335	-29.1#	80	0.00
92		Benzo(g,h,i)perylene	1.052	1.276	-21.3	76	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	96	0.00
2		1,4-Dioxane	40.000	38.331	4.2	96	0.00
3		Pyridine	40.000	38.939	2.7	93	0.00
4		n-Nitrosodimethylamine	40.000	35.583	11.0	87	0.00
5	S	2-Fluorophenol	80.000	72.726	9.1	89	0.00
6		Aniline	40.000	37.347	6.6	90	0.00
7	S	Phenol-d6	80.000	74.251	7.2	92	0.00
8		2-Chlorophenol	40.000	38.996	2.5	96	0.00
9		Benzaldehyde	40.000	35.692	10.8	89	0.00
10	C	Phenol	40.000	37.438	6.4	92	0.01
11		bis(2-Chloroethyl)ether	40.000	37.188	7.0	91	0.00
12		1,3-Dichlorobenzene	40.000	39.082	2.3	97	0.00
13	C	1,4-Dichlorobenzene	40.000	38.376	4.1	95	0.00
14		1,2-Dichlorobenzene	40.000	38.575	3.6	94	0.00
15		Benzyl Alcohol	40.000	37.495	6.3	90	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.963	10.1	88	0.00
17		2-Methylphenol	40.000	38.095	4.8	93	0.00
18		Hexachloroethane	40.000	36.502	8.7	90	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.587	11.0	90	0.00
20		3+4-Methylphenols	40.000	38.521	3.7	96	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	93	0.00
22		Acetophenone	40.000	38.835	2.9	91	0.00
23	S	Nitrobenzene-d5	80.000	77.004	3.7	91	0.00
24		Nitrobenzene	40.000	37.305	6.7	88	0.00
25		Isophorone	40.000	38.063	4.8	91	0.00
26	C	2-Nitrophenol	40.000	41.913	-4.8	98	0.00
27		2,4-Dimethylphenol	40.000	40.254	-0.6	93	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.864	2.8	90	0.00
29	C	2,4-Dichlorophenol	40.000	39.361	1.6	93	0.00
30		1,2,4-Trichlorobenzene	40.000	39.649	0.9	94	0.00
31		Naphthalene	40.000	39.270	1.8	93	0.00
32		Benzoic acid	40.000	34.606	13.5	79	0.01
33		4-Chloroaniline	40.000	39.228	1.9	92	0.00
34	C	Hexachlorobutadiene	40.000	38.289	4.3	89	0.00
35		Caprolactam	40.000	37.061	7.3	86	0.01
36	C	4-Chloro-3-methylphenol	40.000	37.361	6.6	88	0.00
37		2-Methylnaphthalene	40.000	38.282	4.3	89	0.00
38		1-Methylnaphthalene	40.000	37.761	5.6	89	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	91	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.349	6.6	90	0.00
41	P	Hexachlorocyclopentadiene	40.000	34.773	13.1	75	0.00
42	S	2,4,6-Tribromophenol	80.000	72.531	9.3	81	0.00
43	C	2,4,6-Trichlorophenol	40.000	36.226	9.4	85	0.00
44		2,4,5-Trichlorophenol	40.000	35.638	10.9	84	0.00
45	S	2-Fluorobiphenyl	80.000	73.670	7.9	89	0.00
46		1,1'-Biphenyl	40.000	37.480	6.3	89	0.00
47		2-Chloronaphthalene	40.000	37.889	5.3	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	35.406	11.5	82	0.00
49		Acenaphthylene	40.000	38.943	2.6	91	0.00
50		Dimethylphthalate	40.000	37.159	7.1	87	0.00
51		2,6-Dinitrotoluene	40.000	39.451	1.4	92	0.00
52	C	Acenaphthene	40.000	38.772	3.1	90	0.00
53		3-Nitroaniline	40.000	39.535	1.2	91	0.00
54	P	2,4-Dinitrophenol	40.000	36.272	9.3	86	0.01
55		Dibenzofuran	40.000	38.012	5.0	88	0.00
56	P	4-Nitrophenol	40.000	35.773	10.6	78	0.02
57		2,4-Dinitrotoluene	40.000	38.516	3.7	88	0.00
58		Fluorene	40.000	37.139	7.2	85	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	37.214	7.0	80	0.00
60		Diethylphthalate	40.000	35.936	10.2	83	0.00
61		4-Chlorophenyl-phenylether	40.000	37.200	7.0	86	0.00
62		4-Nitroaniline	40.000	37.076	7.3	83	0.00
63		Azobenzene	40.000	34.454	13.9	78	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	78	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.269	-0.7	76	0.01
66	c	n-Nitrosodiphenylamine	40.000	42.748	-6.9	86	0.00
67		4-Bromophenyl-phenylether	40.000	41.055	-2.6	82	0.00
68		Hexachlorobenzene	40.000	41.697	-4.2	84	0.00
69		Atrazine	40.000	33.453	16.4	67	0.00
70	C	Pentachlorophenol	40.000	33.287	16.8	62	0.01
71		Phenanthrene	40.000	38.164	4.6	78	0.00
72		Anthracene	40.000	38.826	2.9	79	0.00
73		Carbazole	40.000	38.449	3.9	78	0.00
74		Di-n-butylphthalate	40.000	40.470	-1.2	82	0.00
75	C	Fluoranthene	40.000	36.586	8.5	75	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	68	0.00
77		Benzidine	40.000	34.399	14.0	59	0.00
78		Pyrene	40.000	42.817	-7.0	76	0.00
79	S	Terphenyl-d14	80.000	87.865	-9.8	79	0.00
80		Butylbenzylphthalate	40.000	38.545	3.6	67	0.00
81		Benzo(a)anthracene	40.000	38.254	4.4	68	0.00
82		3,3'-Dichlorobenzidine	40.000	36.483	8.8	65	0.00
83		Chrysene	40.000	39.695	0.8	69	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	37.409	6.5	65	0.00
85	c	Di-n-octyl phthalate	40.000	32.062	19.8	57	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	64	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	51.437	-28.6#	81	0.00
88		Benzo(b)fluoranthene	40.000	38.004	5.0	65	-0.01
89		Benzo(k)fluoranthene	40.000	37.736	5.7	59	-0.02
90	C	Benzo(a)pyrene	40.000	39.241	1.9	63	-0.01
91		Dibenzo(a,h)anthracene	40.000	51.627	-29.1#	80	0.00
92		Benzo(g,h,i)perylene	40.000	48.503	-21.3	76	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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: NOBI03

Lab Code: CHEM Case No.: P5306 SAS No.: P5306 SDG No.: P5306

Instrument ID: BNA_F Calibration Date/Time: 12/20/2024 19:24

Lab File ID: BF140959.D Init. Calib. Date(s): 12/16/2024 12/16/2024

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 12:13 16:15

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.215	1.203		-1.0	50.0
Phenol-d6	1.609	1.593		-1.0	50.0
Nitrobenzene-d5	0.400	0.389		-2.8	50.0
Naphthalene	1.099	1.086		-1.2	50.0
2-Methylnaphthalene	0.727	0.714		-1.8	50.0
2-Fluorobiphenyl	1.455	1.388		-4.6	50.0
Acenaphthylene	1.788	1.788		0.0	50.0
Acenaphthene	1.142	1.133		-0.8	50.0
Fluorene	1.460	1.425		-2.4	50.0
2,4,6-Tribromophenol	0.237	0.232		-2.1	50.0
Phenanthrene	1.028	1.020		-0.8	50.0
Anthracene	1.013	0.994		-1.9	50.0
Fluoranthene	1.184	1.218		2.9	50.0
Pyrene	1.779	1.725		-3.0	50.0
Terphenyl-d14	1.268	1.207		-4.8	50.0
Benzo(a)anthracene	1.417	1.404		-0.9	50.0
Chrysene	1.289	1.227		-4.8	50.0
Benzo(b)fluoranthene	1.388	1.367		-1.5	50.0
Benzo(k)fluoranthene	1.191	1.086		-8.8	50.0
Benzo(a)pyrene	1.087	1.030		-5.2	50.0
Indeno(1,2,3-cd)pyrene	1.248	1.208		-3.2	50.0
Dibenzo(a,h)anthracene	1.034	0.996		-3.7	50.0
Benzo(g,h,i)perylene	1.052	0.977		-7.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	66227	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	248513	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	146137	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	291861	20.000	ng		0.00
76) Chrysene-d12	14.027	240	207326	20.000	ng		0.00
86) Perylene-d12	15.516	264	184556	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	318577	79.188	ng		0.00
7) Phenol-d6	6.504	99	421997	79.195	ng		0.00
23) Nitrobenzene-d5	7.422	82	386452	77.801	ng		0.00
42) 2,4,6-Tribromophenol	10.681	330	135717	78.522	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	811564	76.352	ng		0.00
79) Terphenyl-d14	12.957	244	1001326	76.158	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.605	88	65032	37.529	ng		98
3) Pyridine	3.387	79	154925	38.605	ng		97
4) n-Nitrosodimethylamine	3.346	42	74446	36.798	ng		95
6) Aniline	6.522	93	175414	38.501	ng		98
8) 2-Chlorophenol	6.646	128	177168	40.383	ng		99
9) Benzaldehyde	6.410	77	118899	40.271	ng		98
10) Phenol	6.516	94	218889	39.635	ng		94
11) bis(2-Chloroethyl)ether	6.587	93	157329	38.200	ng		99
12) 1,3-Dichlorobenzene	6.787	146	195796	39.166	ng		98
13) 1,4-Dichlorobenzene	6.869	146	199400	39.295	ng		99
14) 1,2-Dichlorobenzene	7.022	146	186168	38.884	ng		99
15) Benzyl Alcohol	7.004	79	149510	39.242	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.122	45	174534	35.973	ng		80
17) 2-Methylphenol	7.122	107	141105	40.286	ng		98
18) Hexachloroethane	7.351	117	71272	37.728	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	121188	37.915	ng		98
20) 3+4-Methylphenols	7.275	107	183332	39.472	ng	#	85
22) Acetophenone	7.263	105	244338	39.304	ng		96
24) Nitrobenzene	7.440	77	198770	39.061	ng		96
25) Isophorone	7.675	82	313176	37.629	ng		99
26) 2-Nitrophenol	7.751	139	96414	41.138	ng		99
27) 2,4-Dimethylphenol	7.793	122	109542	40.022	ng		99
28) bis(2-Chloroethoxy)met...	7.875	93	195305	37.572	ng		98
29) 2,4-Dichlorophenol	8.004	162	150227	39.755	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	168994	39.012	ng		99
31) Naphthalene	8.151	128	539862	39.547	ng		100
32) Benzoic acid	7.957	122	105192	40.523	ng		97
33) 4-Chloroaniline	8.210	127	180741	39.864	ng		97
34) Hexachlorobutadiene	8.263	225	112071	38.453	ng		99
35) Caprolactam	8.592	113	48736	43.322	ng		95
36) 4-Chloro-3-methylphenol	8.704	107	171340	40.286	ng		98
37) 2-Methylnaphthalene	8.845	142	354629	39.272	ng		99
38) 1-Methylnaphthalene	8.940	142	353547	39.588	ng		99
40) 1,2,4,5-Tetrachloroben...	9.010	216	176578	39.312	ng		99
41) Hexachlorocyclopentadiene	8.987	237	26032	28.674	ng		98
43) 2,4,6-Trichlorophenol	9.134	196	103055	37.469	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	113791	37.641	ng	99
46) 1,1'-Biphenyl	9.304	154	451267	38.834	ng	99
47) 2-Chloronaphthalene	9.334	162	347940	39.139	ng	99
48) 2-Nitroaniline	9.439	65	105740	39.384	ng	95
49) Acenaphthylene	9.751	152	522615	40.003	ng	99
50) Dimethylphthalate	9.604	163	394835	38.322	ng	100
51) 2,6-Dinitrotoluene	9.681	165	93666	39.767	ng	94
52) Acenaphthene	9.922	154	331006	39.664	ng	100
53) 3-Nitroaniline	9.857	138	96968	41.485	ng	96
54) 2,4-Dinitrophenol	9.981	184	46064	43.346	ng	95
55) Dibenzofuran	10.092	168	499757	38.647	ng	100
56) 4-Nitrophenol	10.051	139	44580	37.930	ng	99
57) 2,4-Dinitrotoluene	10.092	165	125320	40.439	ng	98
58) Fluorene	10.434	166	416576	39.048	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	92785	37.667	ng	94
60) Diethylphthalate	10.304	149	395324	37.002	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	203526	37.979	ng	98
62) 4-Nitroaniline	10.475	138	104090m	42.614	ng	
63) Azobenzene	10.586	77	368436	36.682	ng	96
65) 4,6-Dinitro-2-methylph...	10.510	198	67642	40.900	ng	96
66) n-Nitrosodiphenylamine	10.545	169	353375	39.380	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	124736	38.203	ng	96
68) Hexachlorobenzene	10.986	284	143941	38.882	ng	99
69) Atrazine	11.069	200	84689	33.792	ng	100
70) Pentachlorophenol	11.198	266	43771	32.340	ng	99
71) Phenanthrene	11.404	178	595675	39.689	ng	100
72) Anthracene	11.457	178	580319	39.262	ng	100
73) Carbazole	11.616	167	585180	40.420	ng	100
74) Di-n-butylphthalate	11.928	149	646754	38.065	ng	99
75) Fluoranthene	12.598	202	711196	41.145	ng	99
77) Benzidine	12.722	184	184675	43.643	ng	99
78) Pyrene	12.827	202	715402	38.803	ng	100
80) Butylbenzylphthalate	13.427	149	266719	39.317	ng	98
81) Benzo(a)anthracene	14.022	228	582184	39.621	ng	100
82) 3,3'-Dichlorobenzidine	13.974	252	179769	40.550	ng	98
83) Chrysene	14.057	228	508731	38.074	ng	99
84) Bis(2-ethylhexyl)phtha...	13.980	149	327711	37.465	ng	99
85) Di-n-octyl phthalate	14.604	149	439301	33.196	ng	98
87) Indeno(1,2,3-cd)pyrene	17.033	276	445783	38.707	ng	100
88) Benzo(b)fluoranthene	15.080	252	504436	39.375	ng	99
89) Benzo(k)fluoranthene	15.110	252	400757	36.468	ng	99
90) Benzo(a)pyrene	15.457	252	380341	37.915	ng	100
91) Dibenzo(a,h)anthracene	17.033	278	367688	38.537	ng	98
92) Benzo(g,h,i)perylene	17.492	276	360772	37.152	ng	100

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

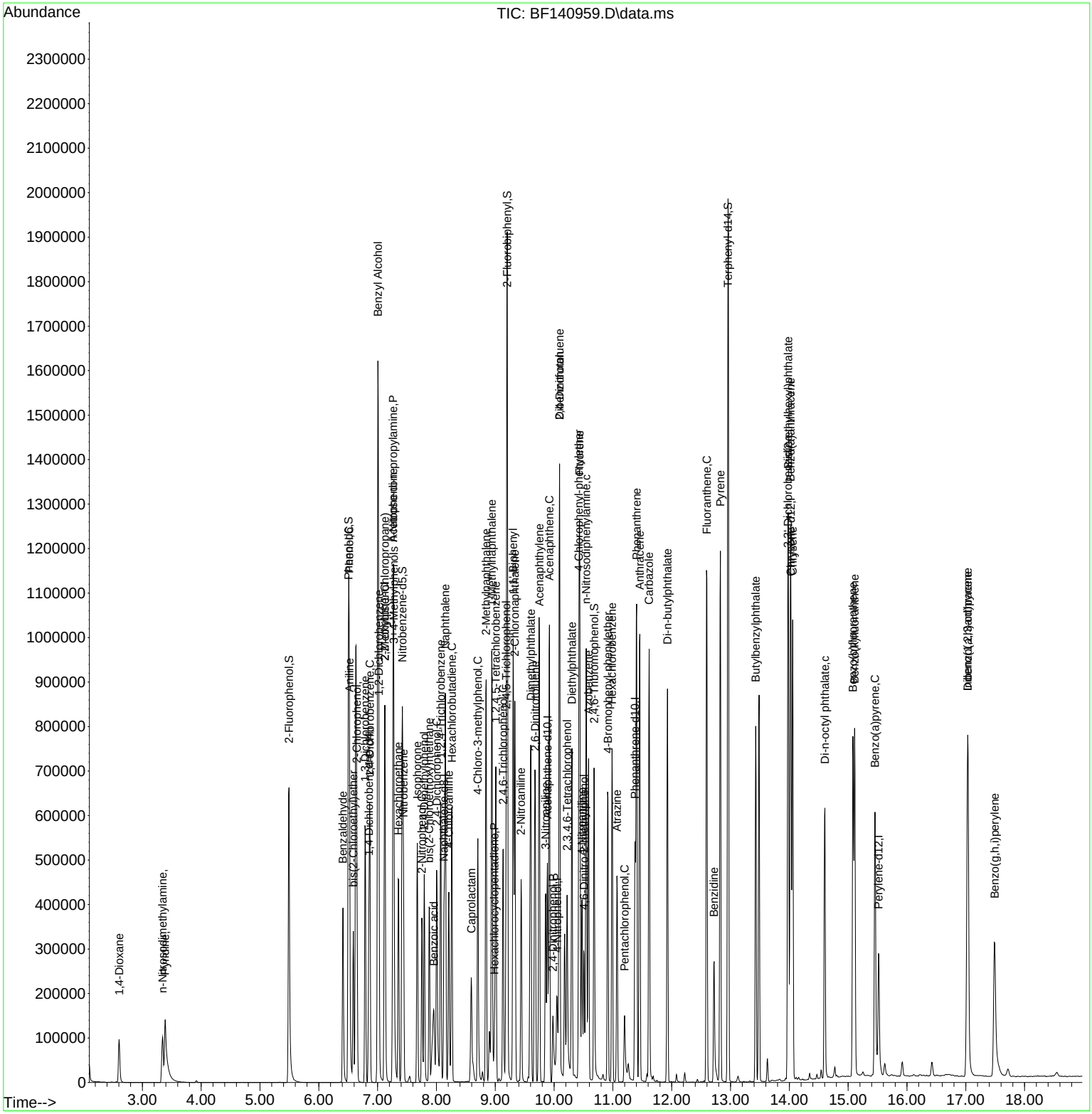
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

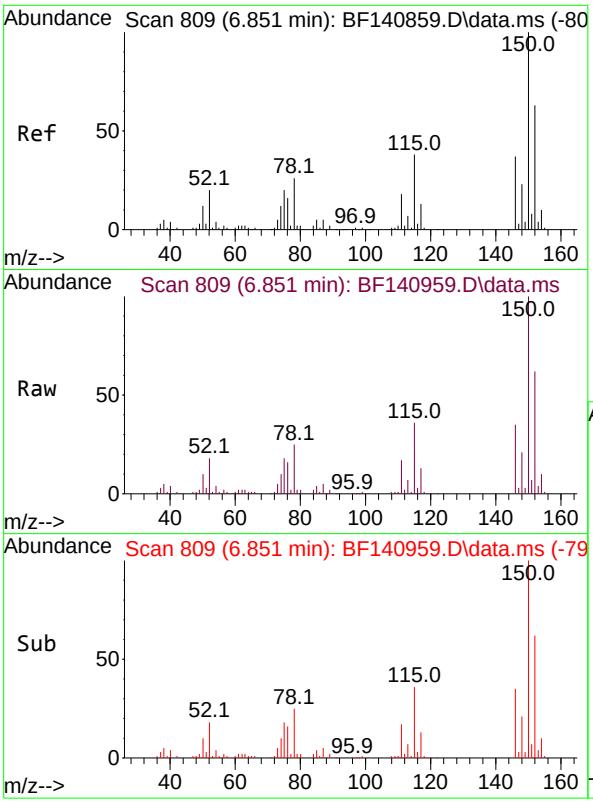
Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

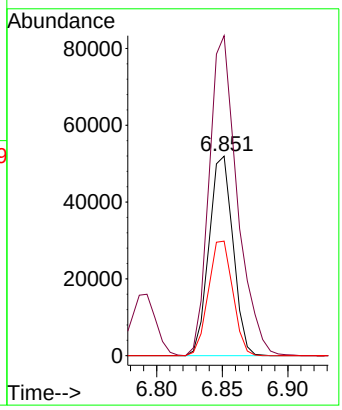




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:152 Resp: 6622

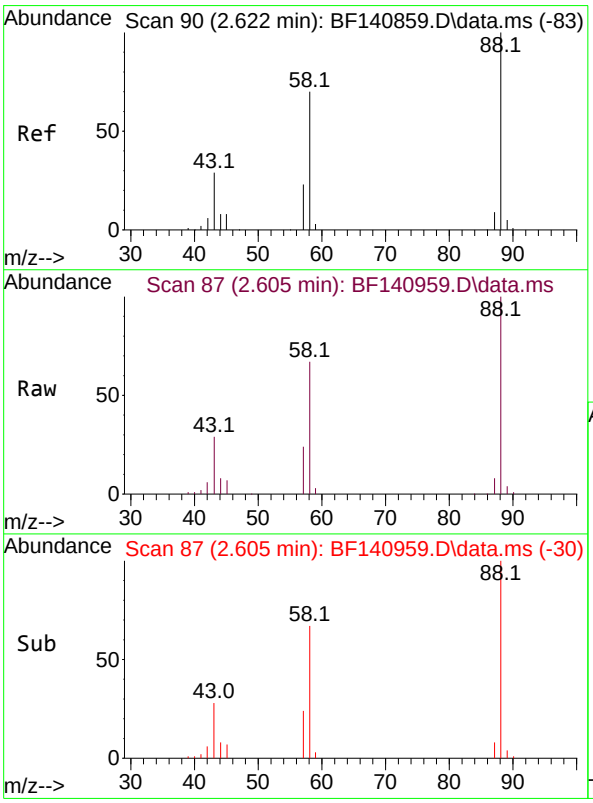
Ion	Ratio	Lower	Upper
152	100		
150	160.4	127.9	191.9
115	57.4	48.0	72.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

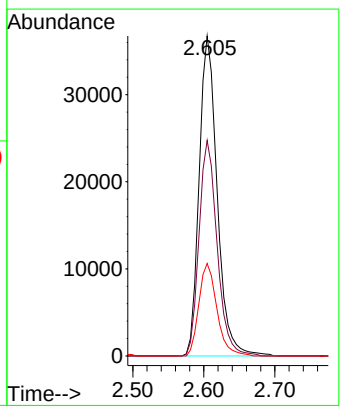
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

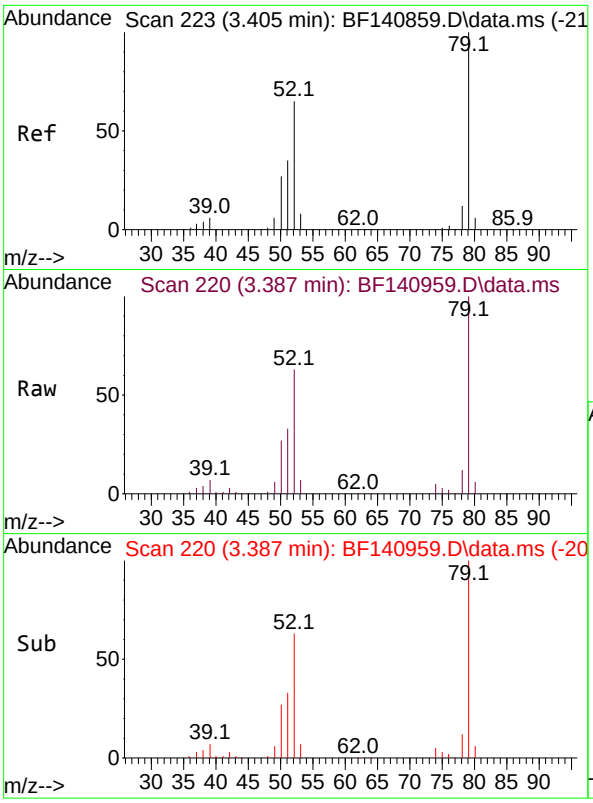


#2
1,4-Dioxane
Concen: 37.529 ng
RT: 2.605 min Scan# 87
Delta R.T. -0.018 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 88 Resp: 65032

Ion	Ratio	Lower	Upper
88	100		
58	67.6	55.8	83.8
43	28.9	22.7	34.1

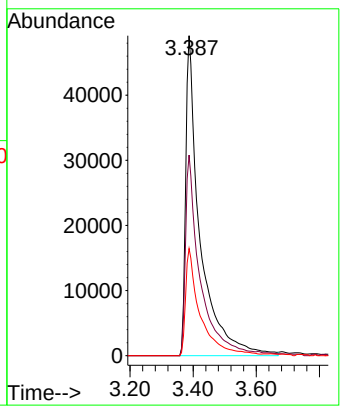




#3
Pyridine
Concen: 38.605 ng
RT: 3.387 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 79 Resp: 15492

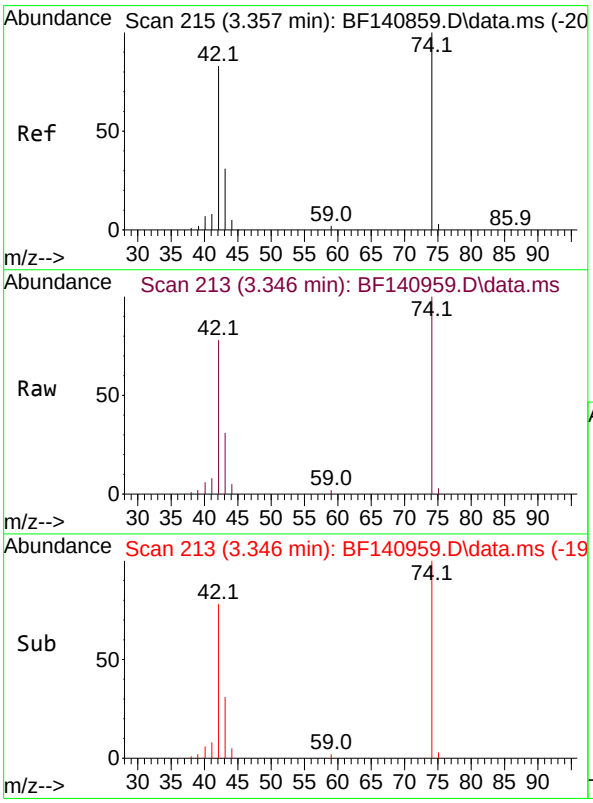
Ion	Ratio	Lower	Upper
79	100		
52	62.7	51.7	77.5
51	33.5	28.2	42.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

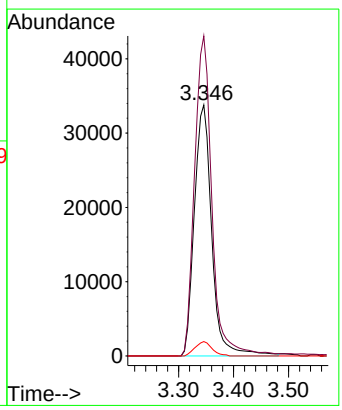
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

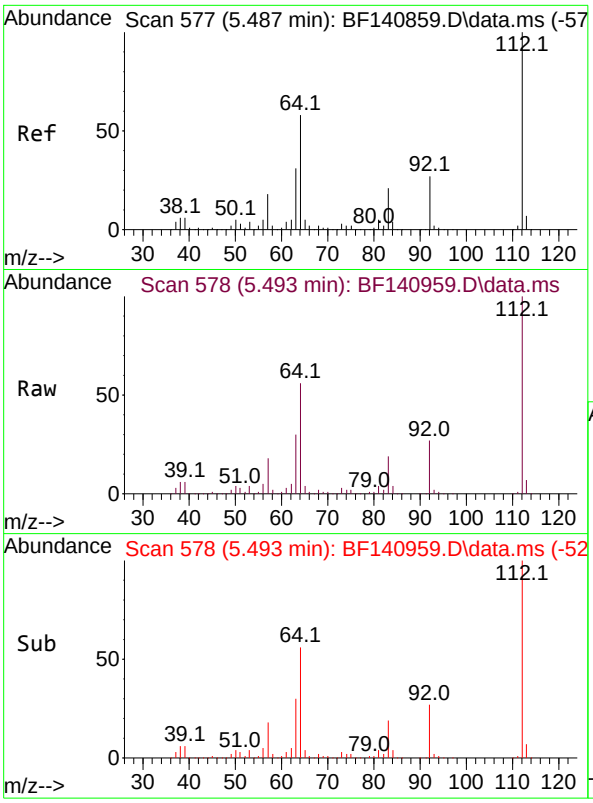


#4
n-Nitrosodimethylamine
Concen: 36.798 ng
RT: 3.346 min Scan# 213
Delta R.T. -0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 42 Resp: 74446

Ion	Ratio	Lower	Upper
42	100		
74	127.5	96.9	145.3
44	5.8	4.4	6.6

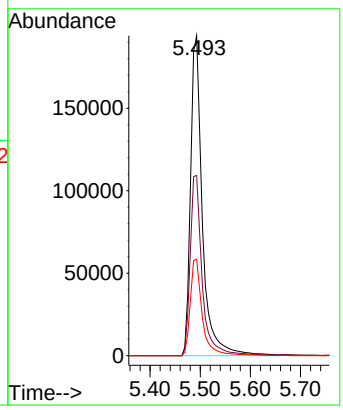




#5
2-Fluorophenol
Concen: 79.188 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:112 Resp: 31857

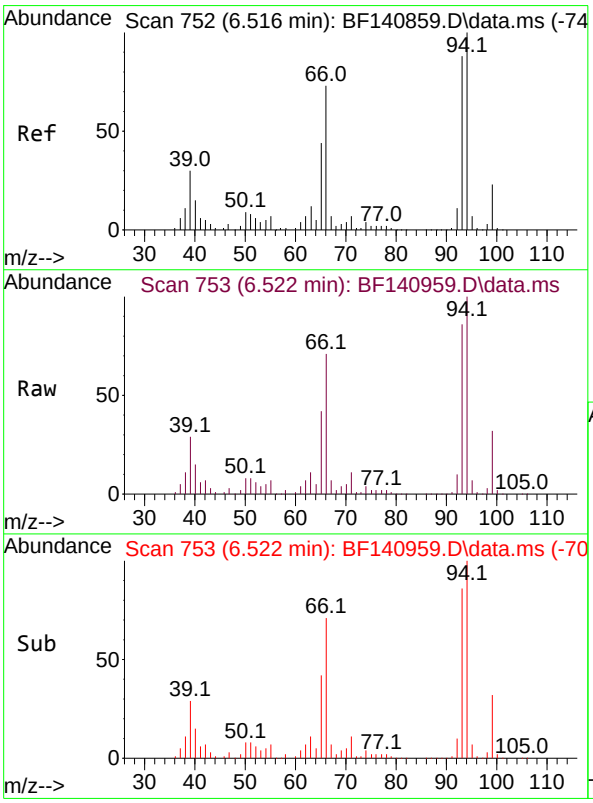
Ion	Ratio	Lower	Upper
112	100		
64	56.3	46.1	69.1
63	30.2	24.9	37.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

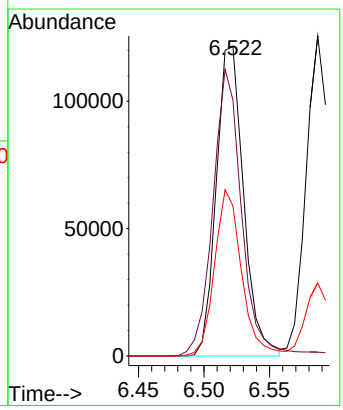
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

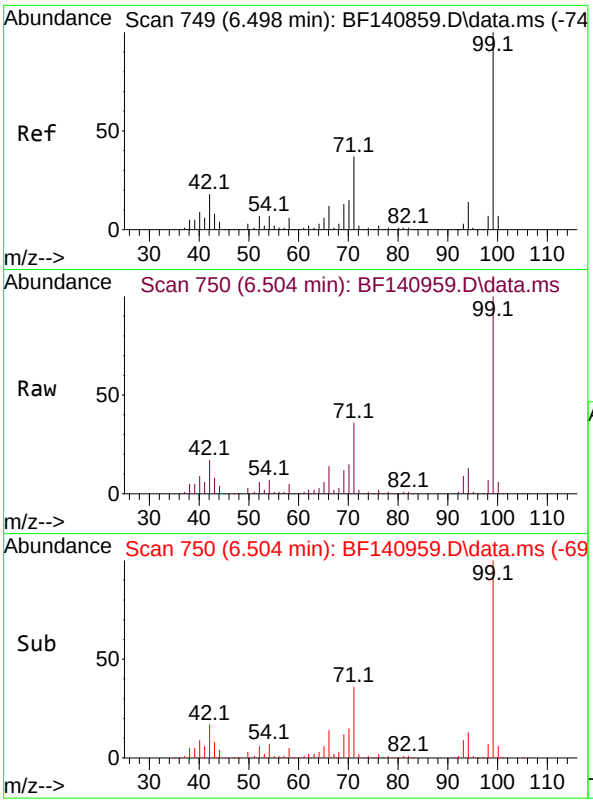


#6
Aniline
Concen: 38.501 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 93 Resp: 175414

Ion	Ratio	Lower	Upper
93	100		
66	82.6	67.0	100.4
65	48.5	40.4	60.6

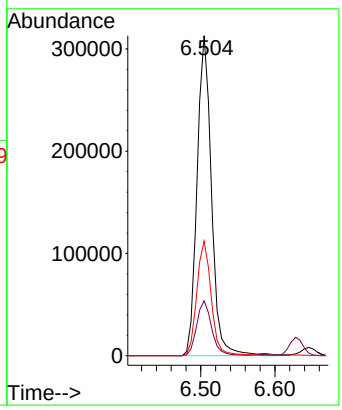




#7
Phenol-d6
Concen: 79.195 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 99 Resp: 42199

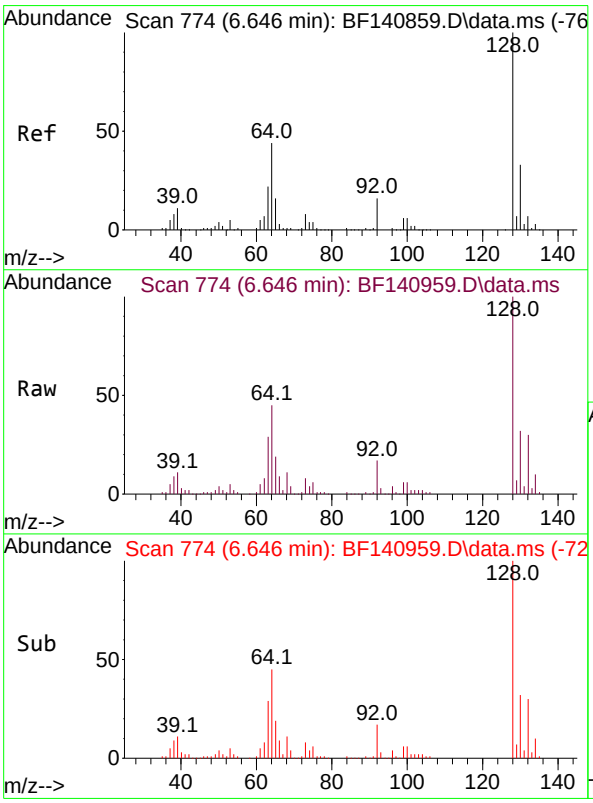
Ion	Ratio	Lower	Upper
99	100		
42	17.2	14.3	21.5
71	35.8	29.9	44.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

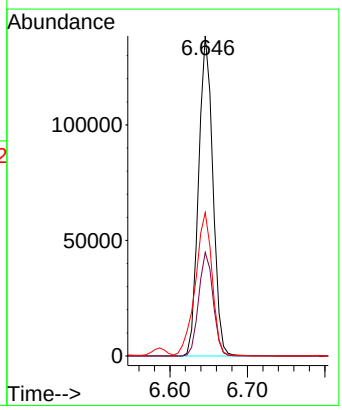
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

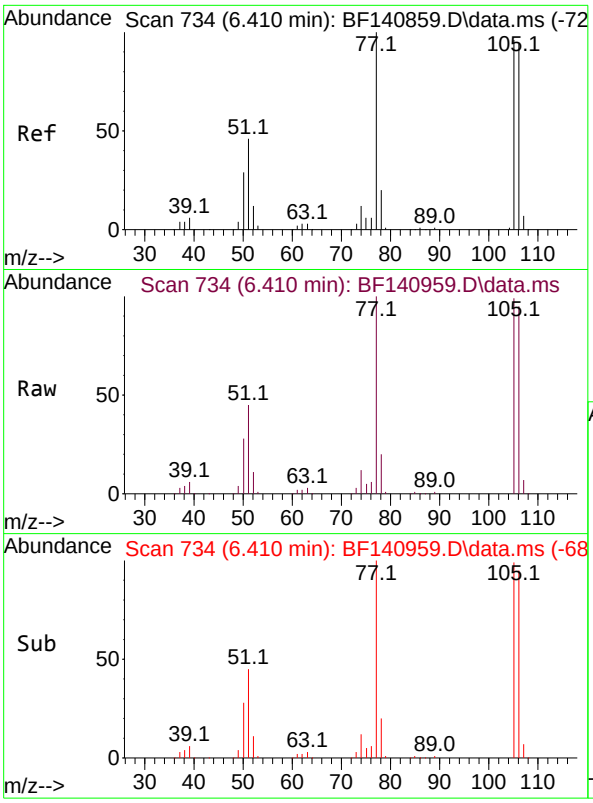


#8
2-Chlorophenol
Concen: 40.383 ng
RT: 6.646 min Scan# 774
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:128 Resp: 177168

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.9	52.9
64	44.8	24.3	64.3

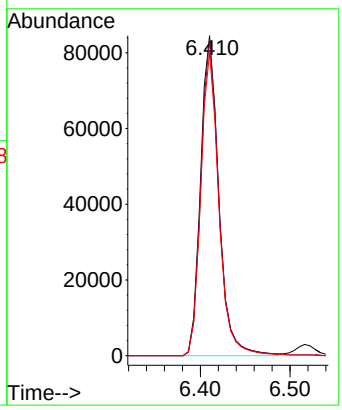




#9
Benzaldehyde
Concen: 40.271 ng
RT: 6.410 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 77 Resp: 11889

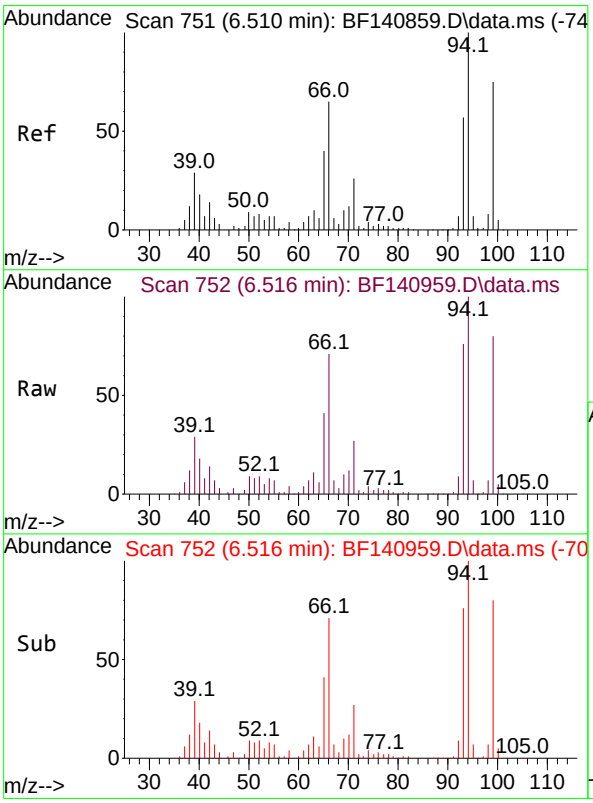
Ion	Ratio	Lower	Upper
77	100		
105	98.8	75.8	115.8
106	94.7	74.1	114.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

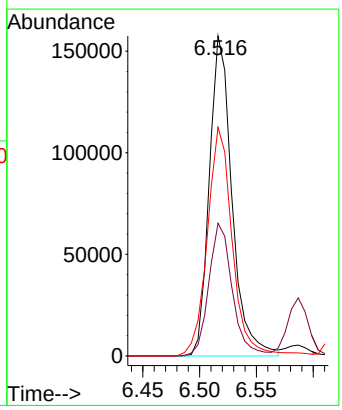
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

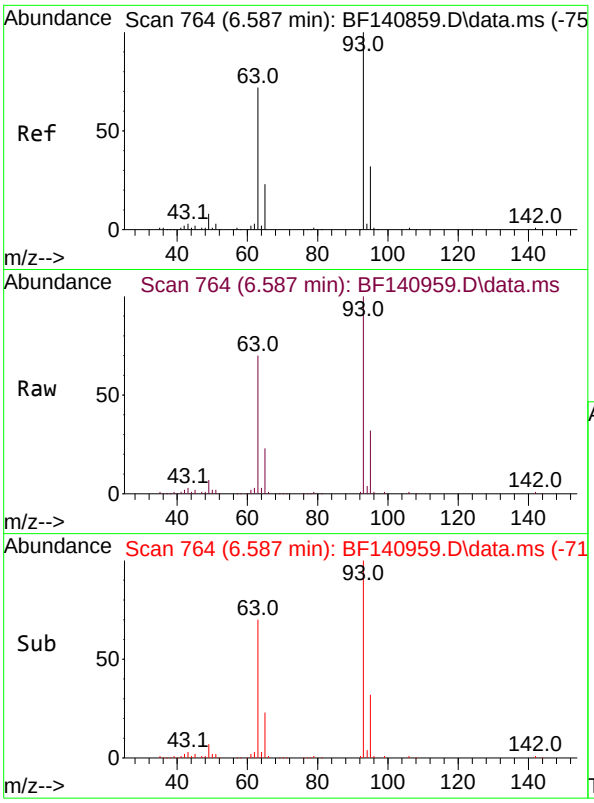


#10
Phenol
Concen: 39.635 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 94 Resp: 218889

Ion	Ratio	Lower	Upper
94	100		
65	41.5	19.9	59.9
66	71.4	45.6	85.6

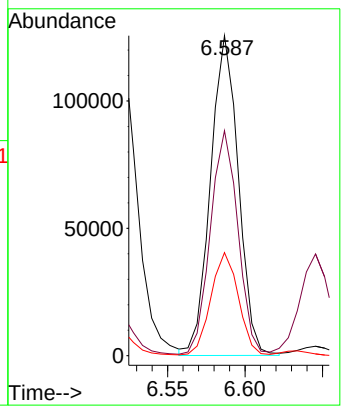




#11
bis(2-Chloroethyl)ether
Concen: 38.200 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 93 Resp: 15732

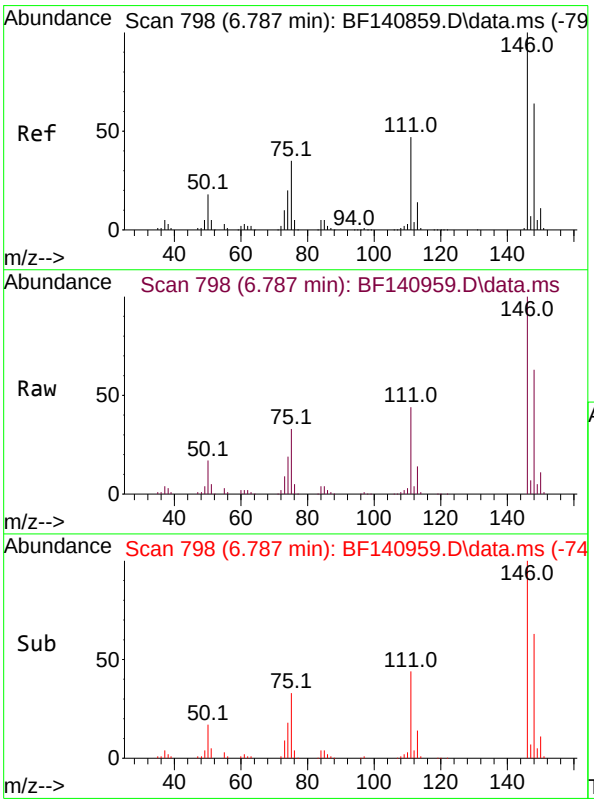
Ion	Ratio	Lower	Upper
93	100		
63	70.3	51.0	91.0
95	32.2	12.0	52.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

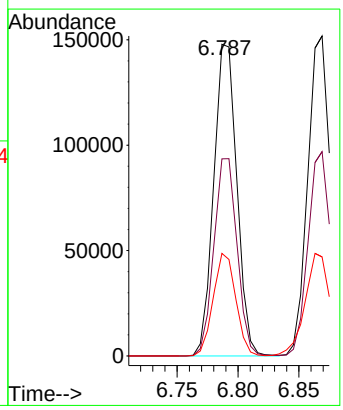
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

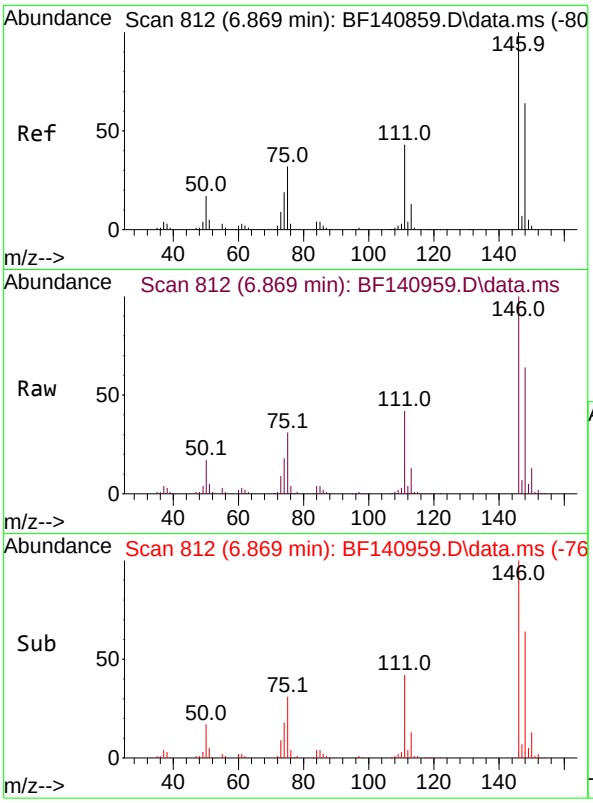


#12
1,3-Dichlorobenzene
Concen: 39.166 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:146 Resp: 195796

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.6
75	32.9	28.1	42.1

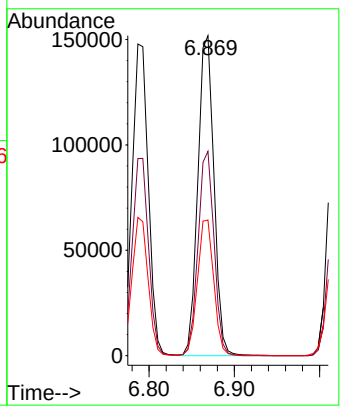




#13
1,4-Dichlorobenzene
Concen: 39.295 ng
RT: 6.869 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:146 Resp: 19940

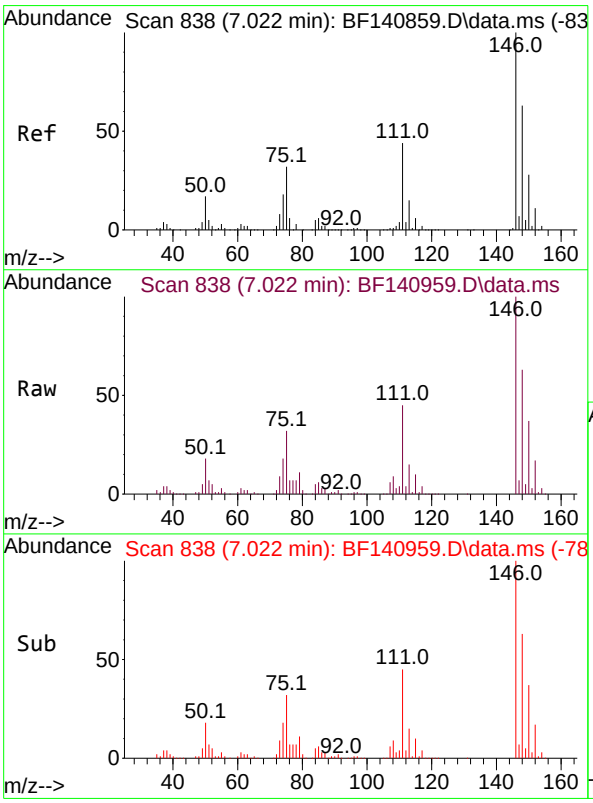
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.3	76.9
111	42.4	34.4	51.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

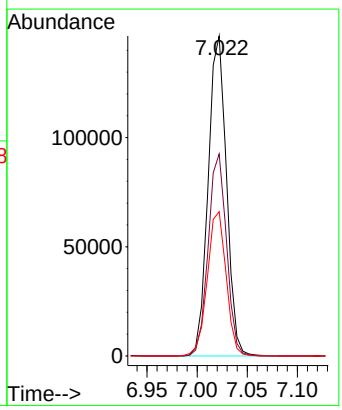
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

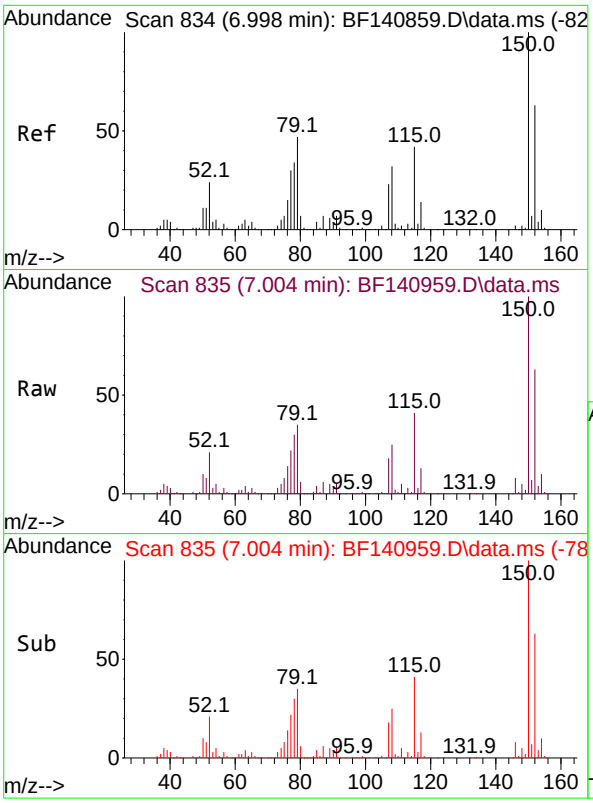


#14
1,2-Dichlorobenzene
Concen: 38.884 ng
RT: 7.022 min Scan# 838
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:146 Resp: 186168

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.0	75.0
111	45.1	35.6	53.4

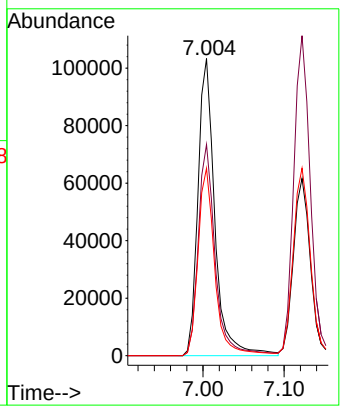




#15
Benzyl Alcohol
Concen: 39.242 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 79 Resp: 14951

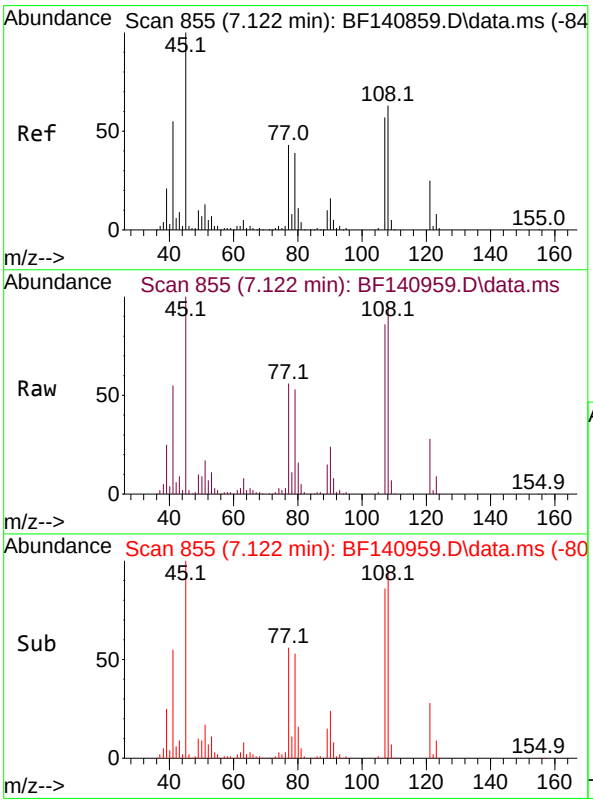
Ion	Ratio	Lower	Upper
79	100		
108	71.1	55.1	82.7
77	63.1	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

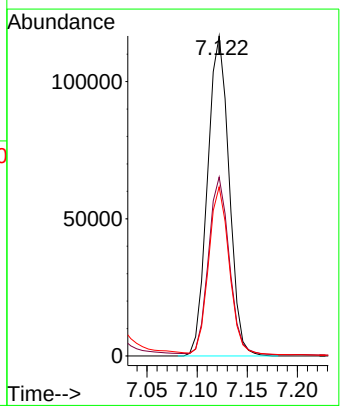
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

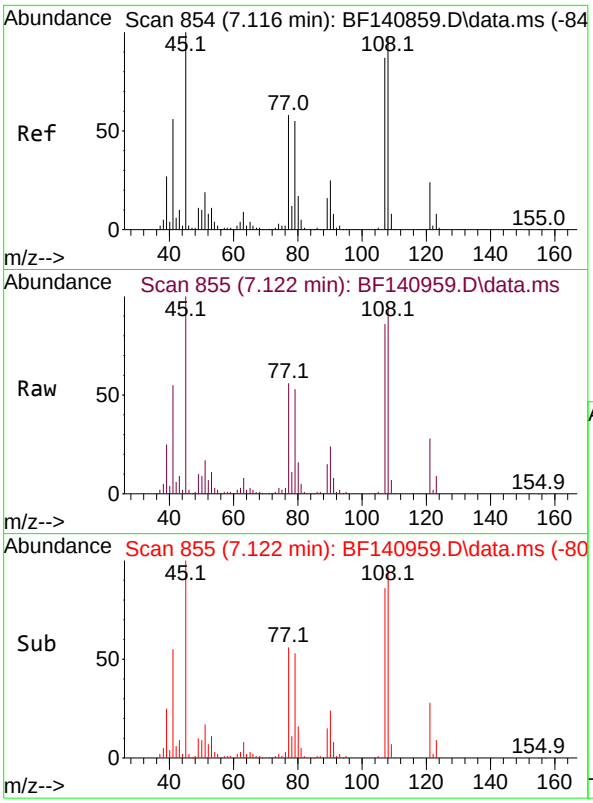


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.973 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 45 Resp: 174534

Ion	Ratio	Lower	Upper
45	100		
77	55.9	23.3	63.3
79	52.9	20.0	60.0

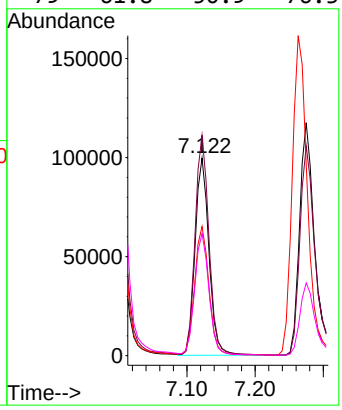




#17
2-Methylphenol
Concen: 40.286 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:107 Resp: 14110

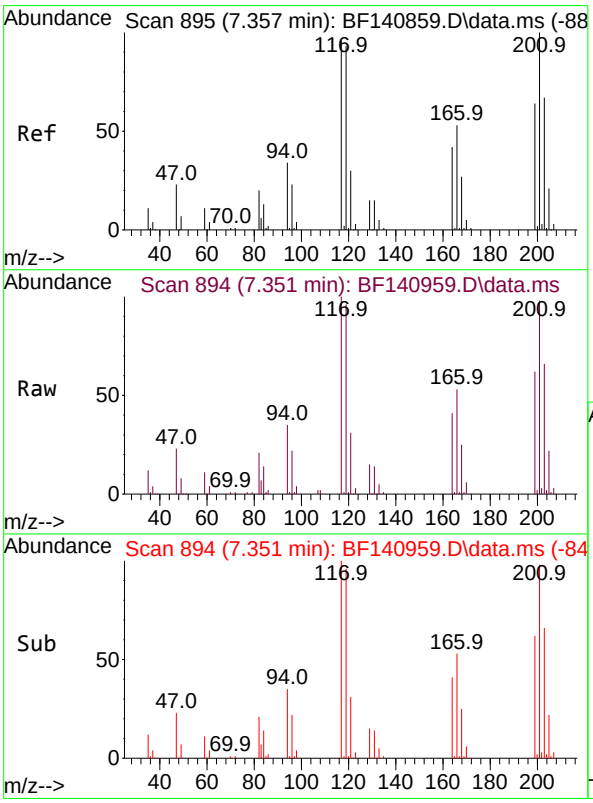
Ion	Ratio	Lower	Upper
107	100		
108	111.6	90.2	135.4
77	65.4	53.8	80.6
79	61.8	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

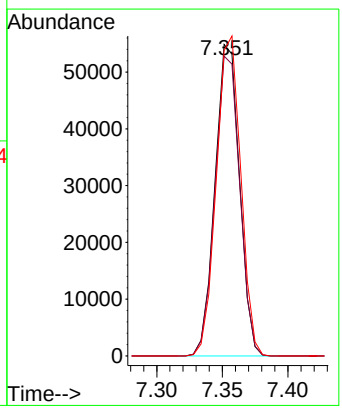
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

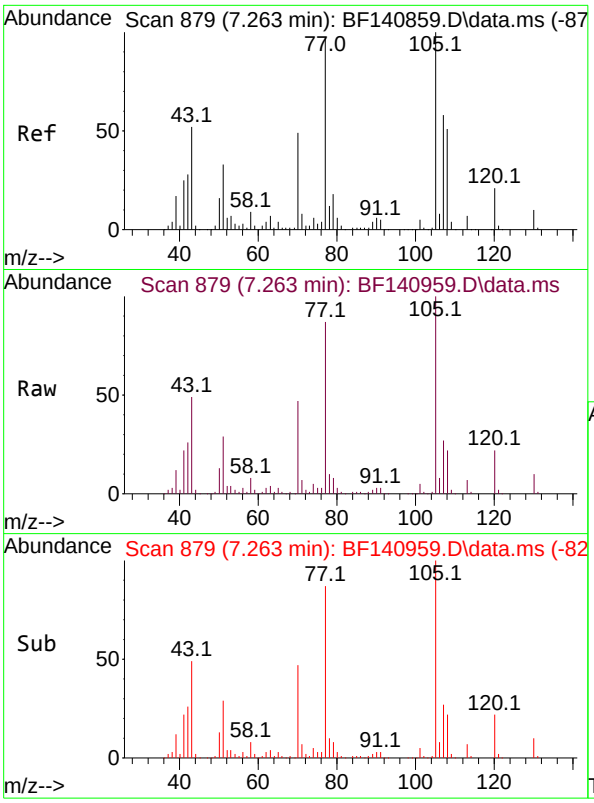


#18
Hexachloroethane
Concen: 37.728 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:117 Resp: 71272

Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.4	116.0
201	98.0	83.4	125.0

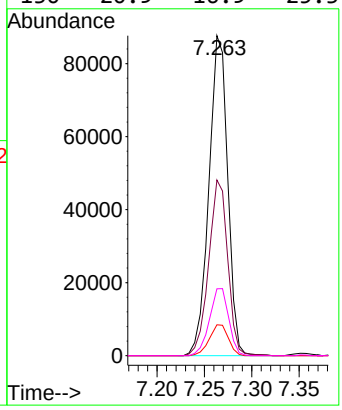




#19
n-Nitroso-di-n-propylamine
Concen: 37.915 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 70 Resp: 12118

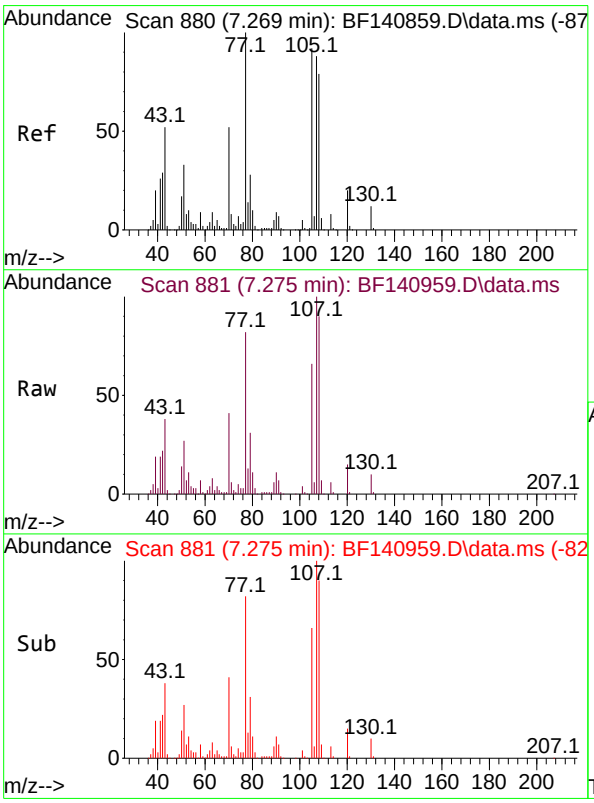
Ion	Ratio	Lower	Upper
70	100		
42	54.9	45.3	67.9
101	9.7	8.0	12.0
130	20.9	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

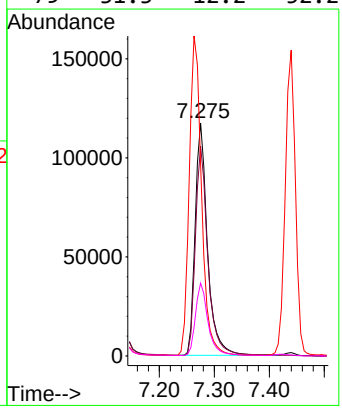
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

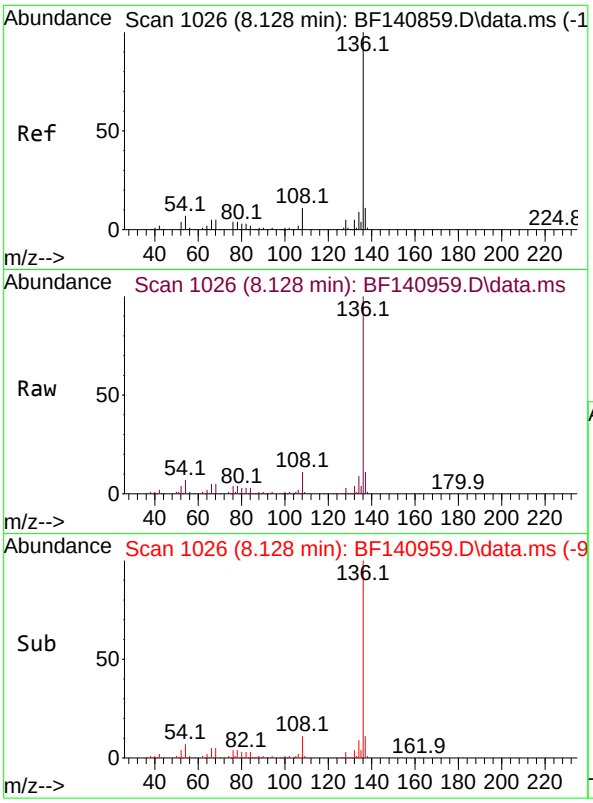


#20
3+4-Methylphenols
Concen: 39.472 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:107 Resp: 183332

Ion	Ratio	Lower	Upper
107	100		
108	90.1	70.1	110.1
77	82.2	94.4	134.4#
79	31.3	12.2	52.2

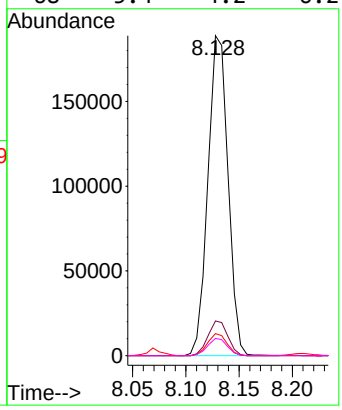




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:136 Resp: 24851

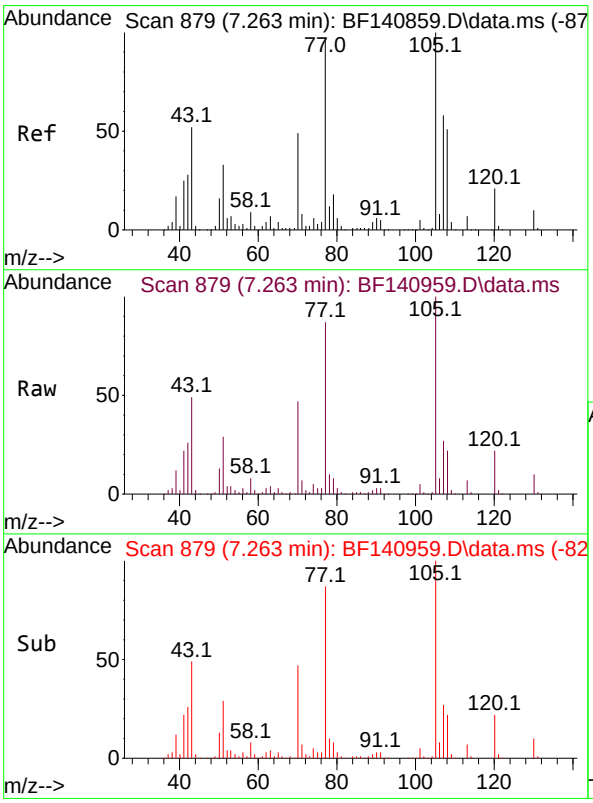
Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.9	5.6	8.4
68	5.4	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

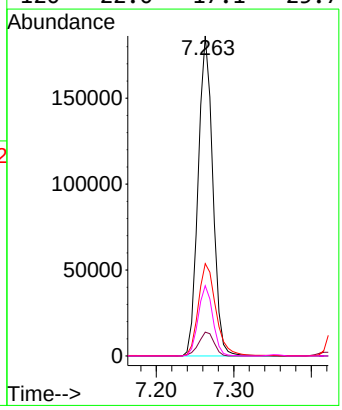
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

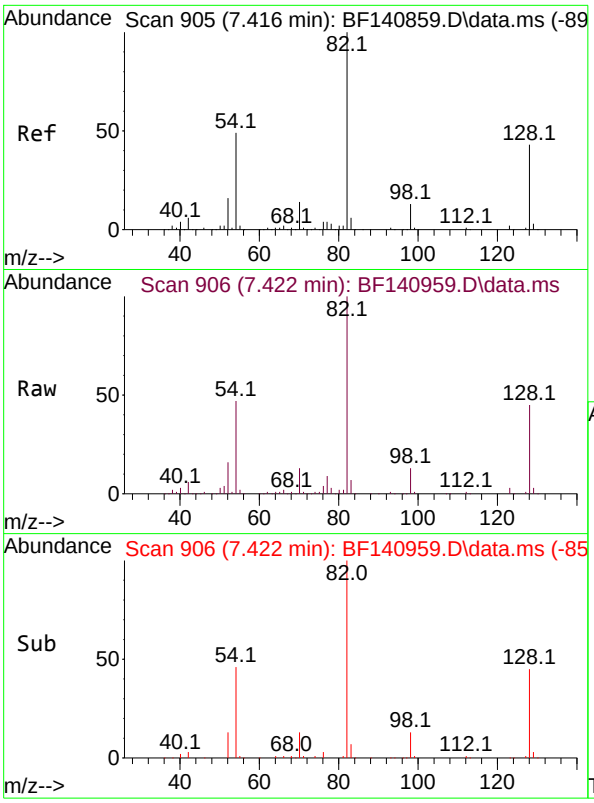


#22
Acetophenone
Concen: 39.304 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:105 Resp: 244338

Ion	Ratio	Lower	Upper
105	100		
71	7.4	6.2	9.4
51	28.9	26.3	39.5
120	22.0	17.1	25.7

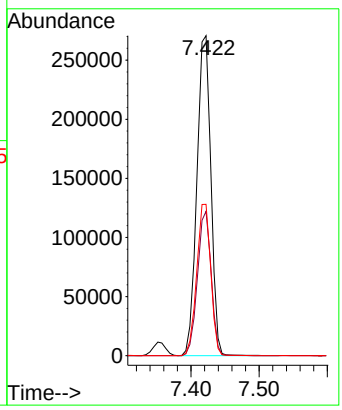




#23
Nitrobenzene-d5
Concen: 77.801 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 82 Resp: 38645

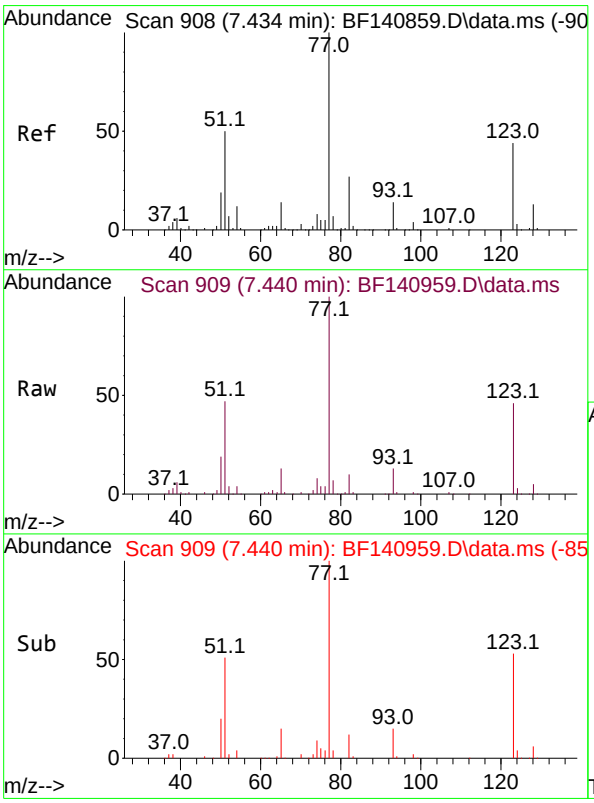
Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.4	51.6
54	47.3	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

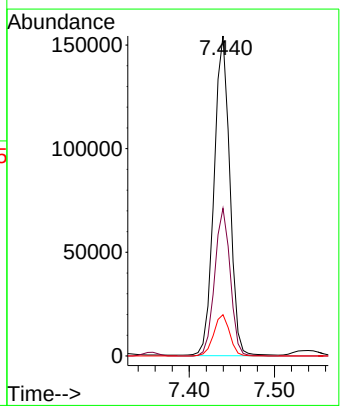
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

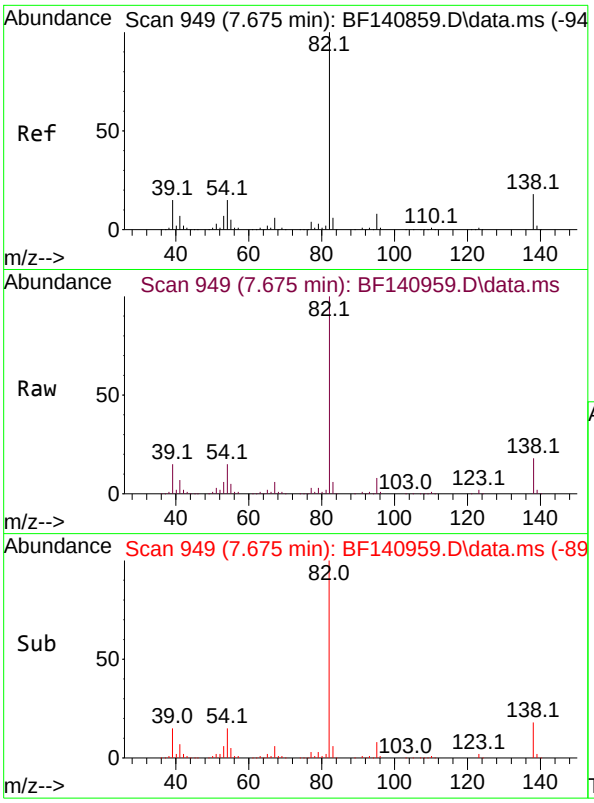


#24
Nitrobenzene
Concen: 39.061 ng
RT: 7.440 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 77 Resp: 198770

Ion	Ratio	Lower	Upper
77	100		
123	46.2	35.0	52.4
65	12.9	11.4	17.0

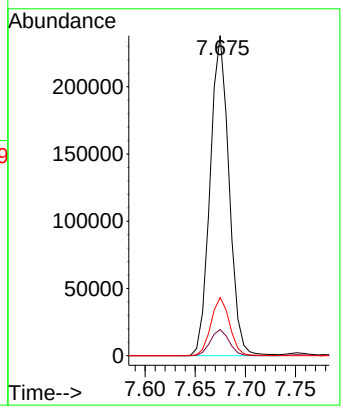




#25
Isophorone
Concen: 37.629 ng
RT: 7.675 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 82 Resp: 31317

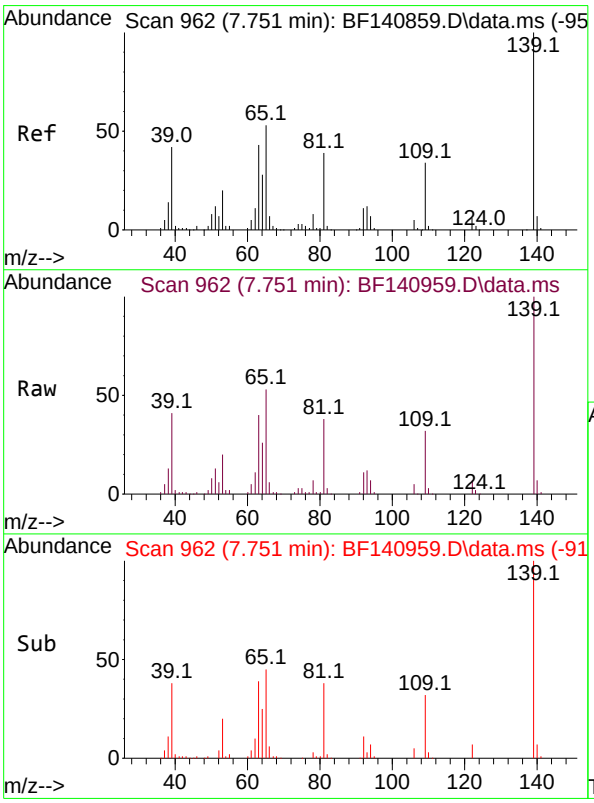
Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.3	9.5
138	18.2	14.1	21.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

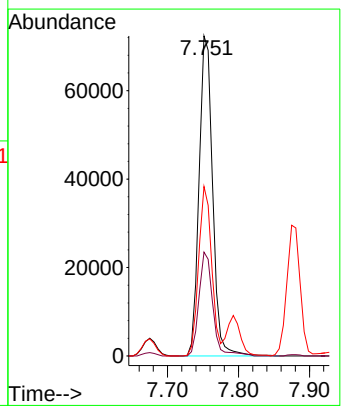
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

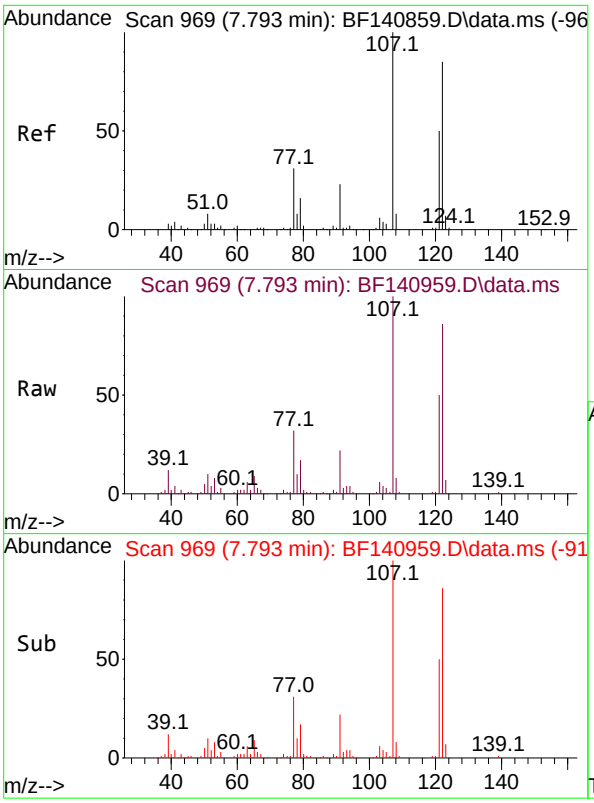


#26
2-Nitrophenol
Concen: 41.138 ng
RT: 7.751 min Scan# 962
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:139 Resp: 96414

Ion	Ratio	Lower	Upper
139	100		
109	32.4	26.9	40.3
65	53.0	42.6	64.0

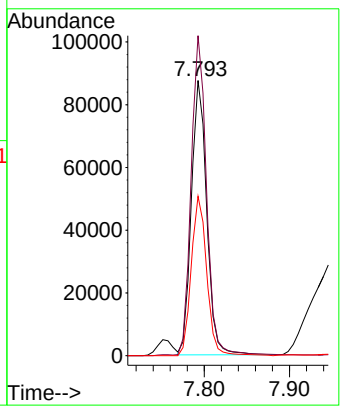




#27
2,4-Dimethylphenol
Concen: 40.022 ng
RT: 7.793 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

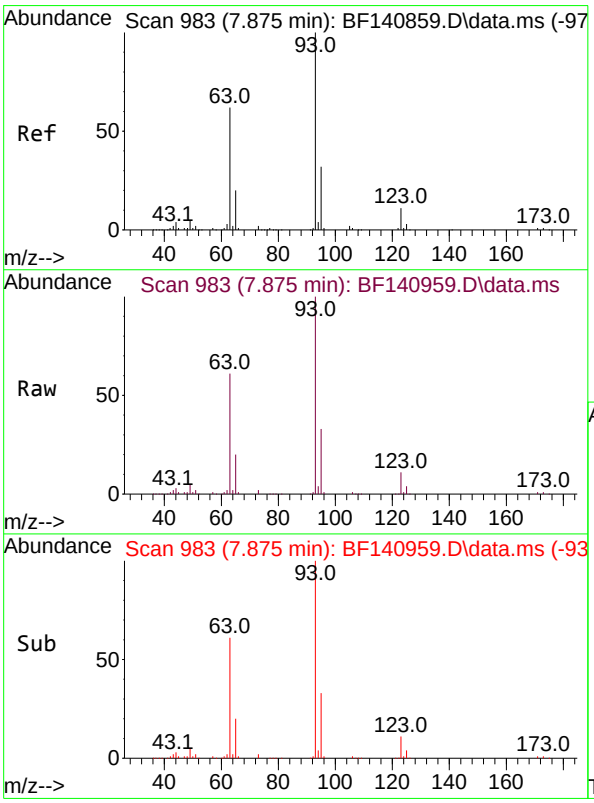
Tgt Ion:122 Resp: 10954

Ion	Ratio	Lower	Upper
122	100		
107	116.3	92.6	139.0
121	57.9	45.8	68.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

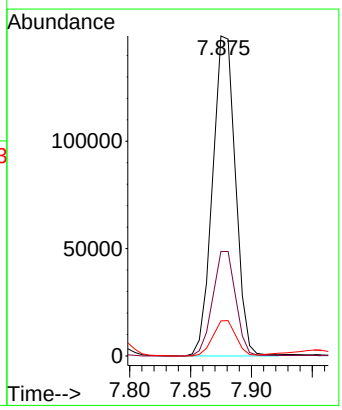
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

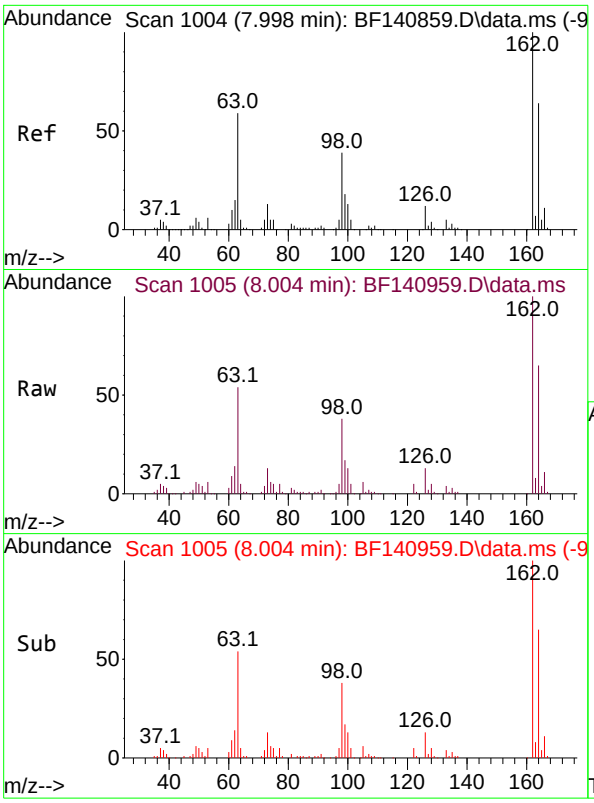


#28
bis(2-Chloroethoxy)methane
Concen: 37.572 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 93 Resp: 195305

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.3	37.9
123	10.9	8.6	13.0





#29
2,4-Dichlorophenol
Concen: 39.755 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

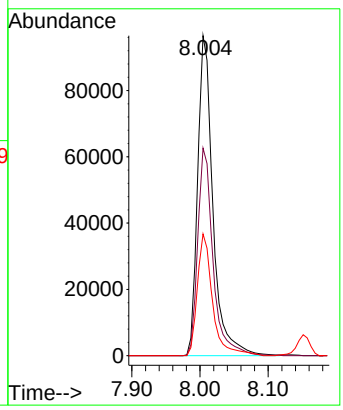
Tgt Ion:162 Resp: 15022

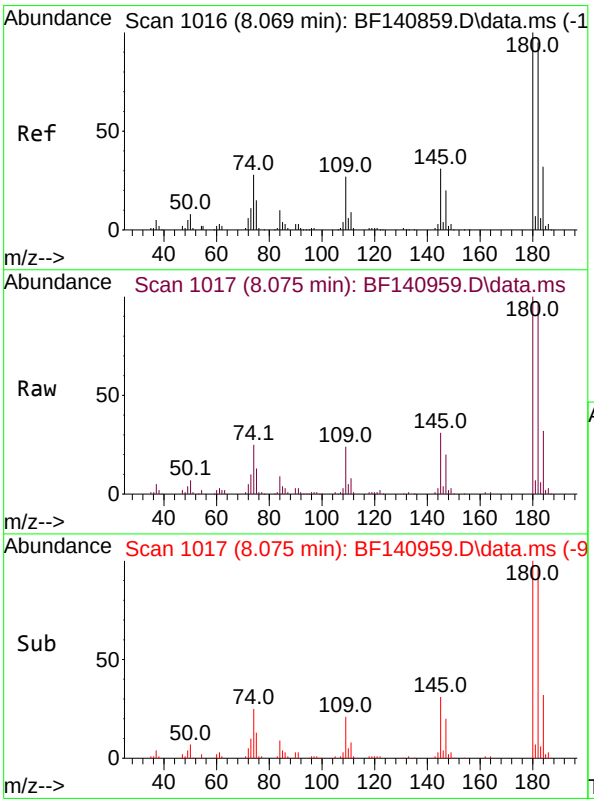
Ion	Ratio	Lower	Upper
162	100		
164	64.8	43.7	83.7
98	38.1	18.6	58.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

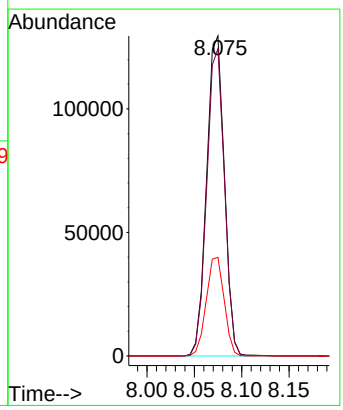


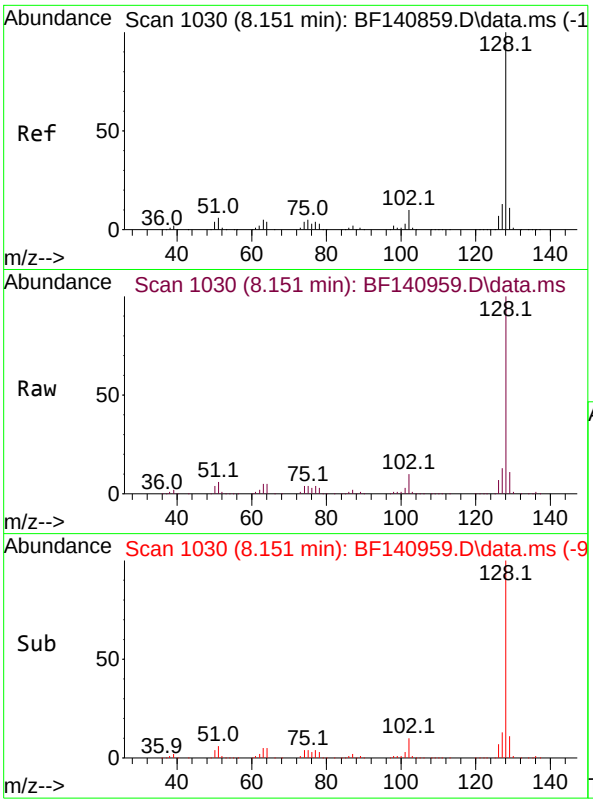


#30
1,2,4-Trichlorobenzene
Concen: 39.012 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:180 Resp: 168994

Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.6
145	30.8	25.2	37.8

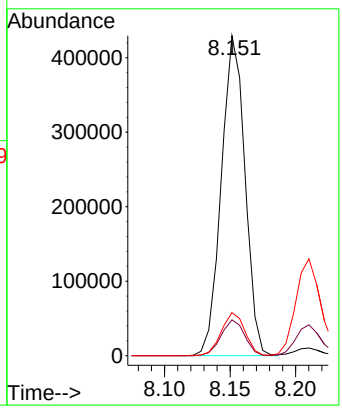




#31
Naphthalene
Concen: 39.547 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:128 Resp: 53986

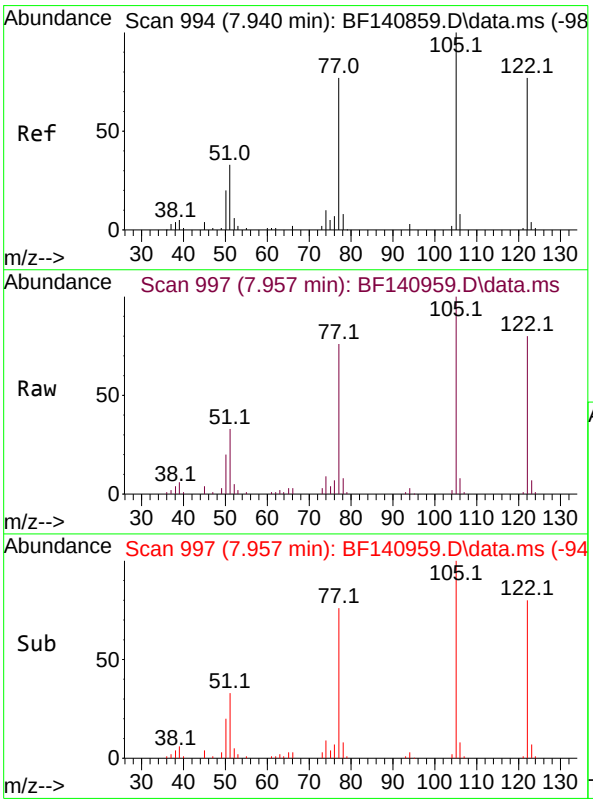
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

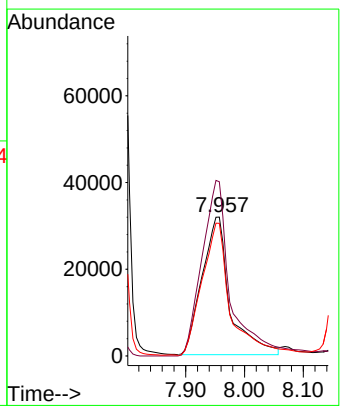
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

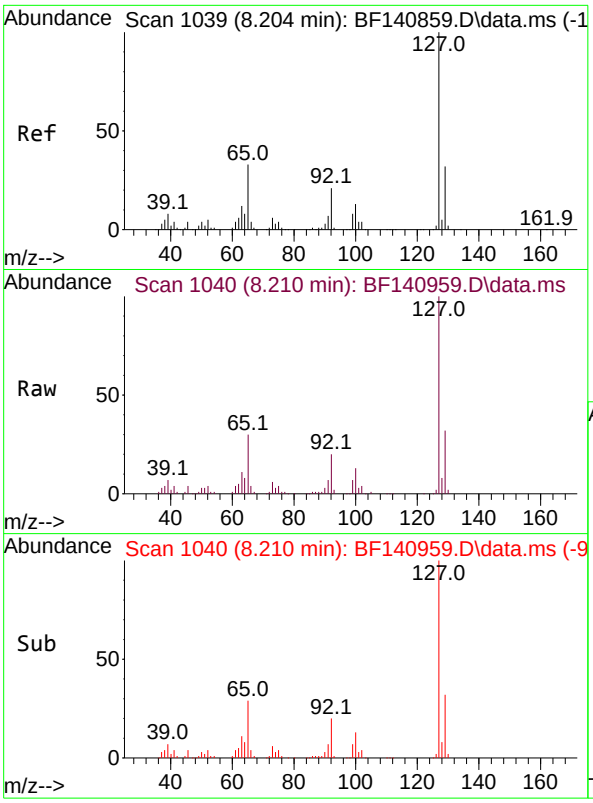


#32
Benzoic acid
Concen: 40.523 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.017 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:122 Resp: 105192

Ion	Ratio	Lower	Upper
122	100		
105	125.4	108.3	148.3
77	95.4	78.8	118.8

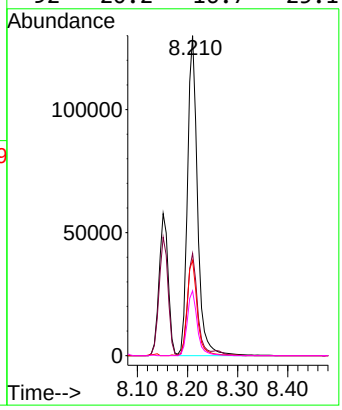




#33
4-Chloroaniline
Concen: 39.864 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:127 Resp: 18074

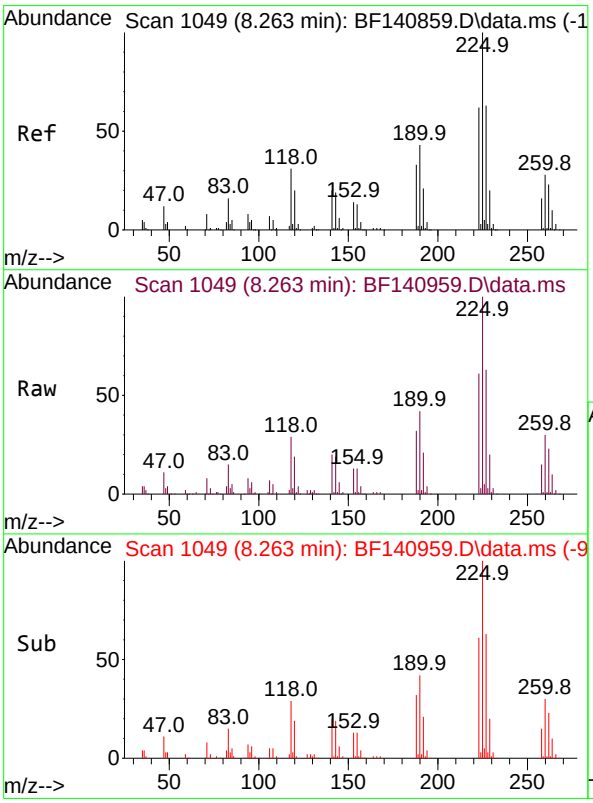
Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.0	39.0
65	29.8	26.0	39.0
92	20.2	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

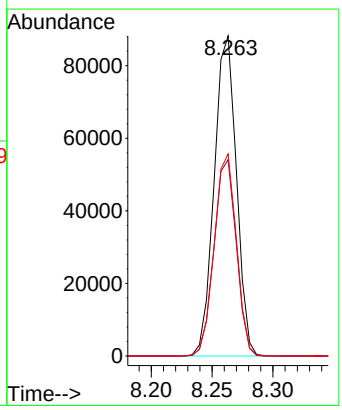
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

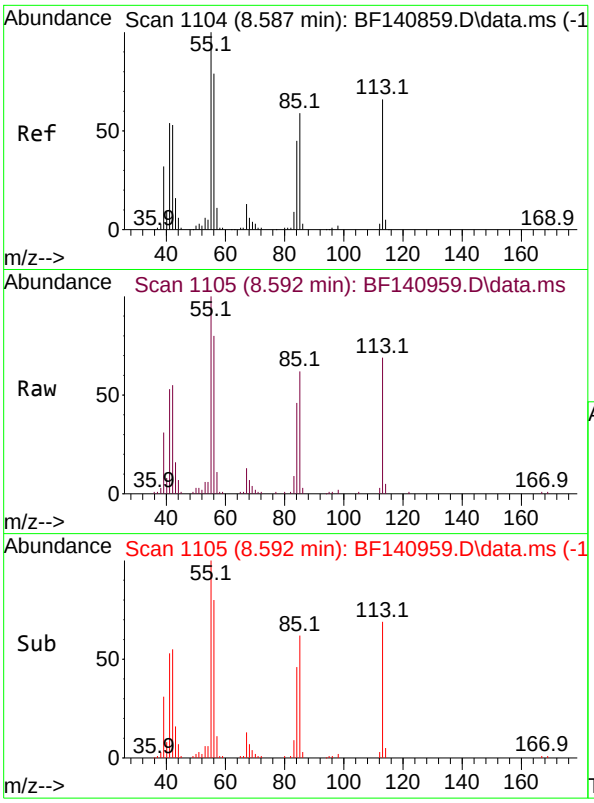


#34
Hexachlorobutadiene
Concen: 38.453 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:225 Resp: 112071

Ion	Ratio	Lower	Upper
225	100		
223	61.3	49.6	74.4
227	63.2	50.7	76.1

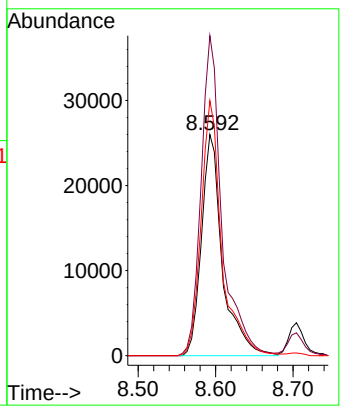




#35
Caprolactam
Concen: 43.322 ng
RT: 8.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:113 Resp: 4873

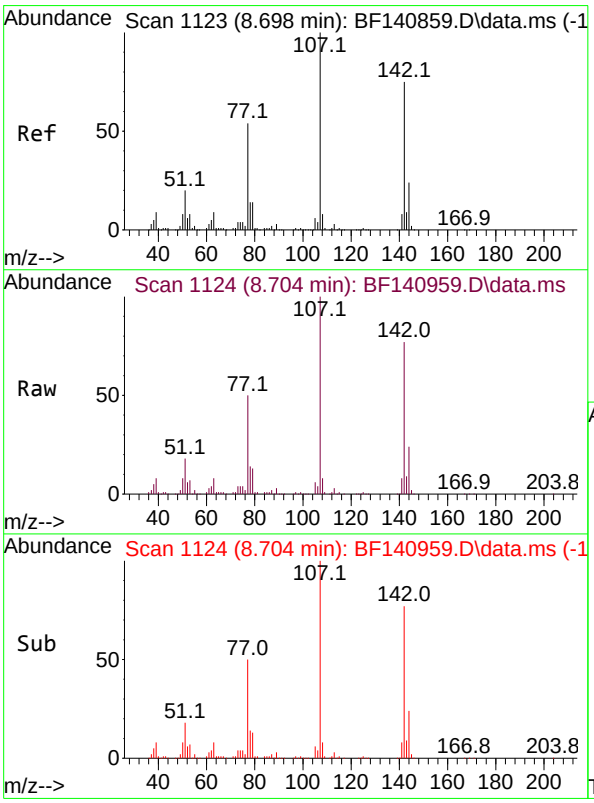
Ion	Ratio	Lower	Upper
113	100		
55	144.7	132.3	172.3
56	115.3	100.3	140.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

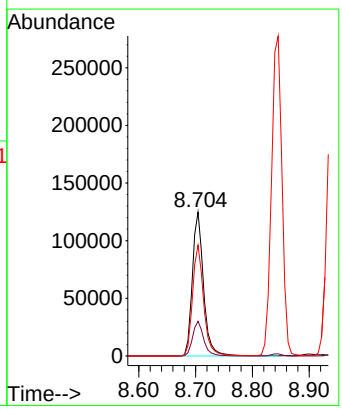
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

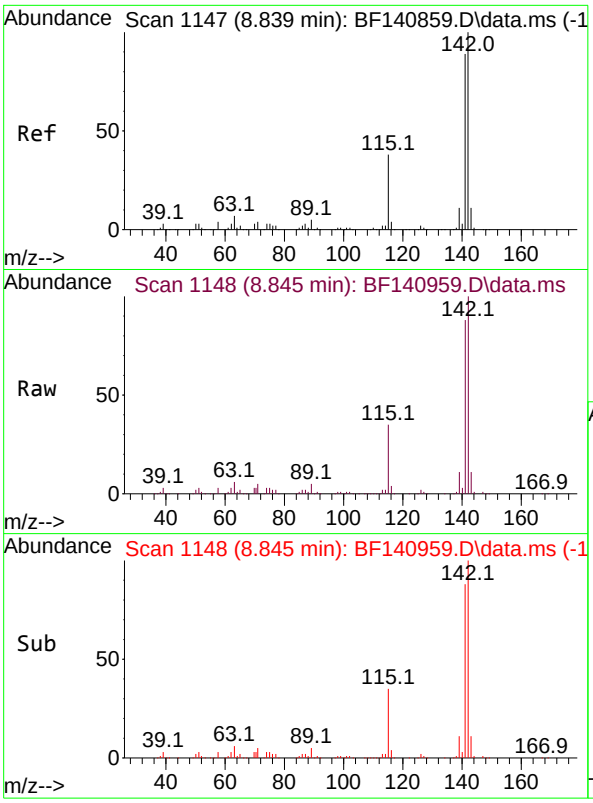


#36
4-Chloro-3-methylphenol
Concen: 40.286 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:107 Resp: 171340

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.4	29.2
142	77.1	60.3	90.5

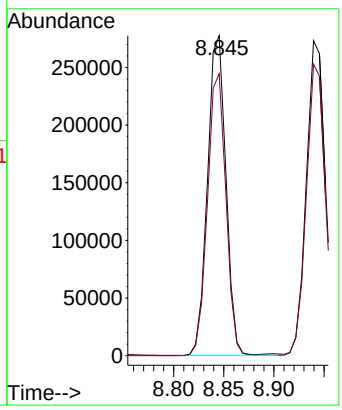




#37
2-Methylnaphthalene
Concen: 39.272 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:142 Resp: 35462

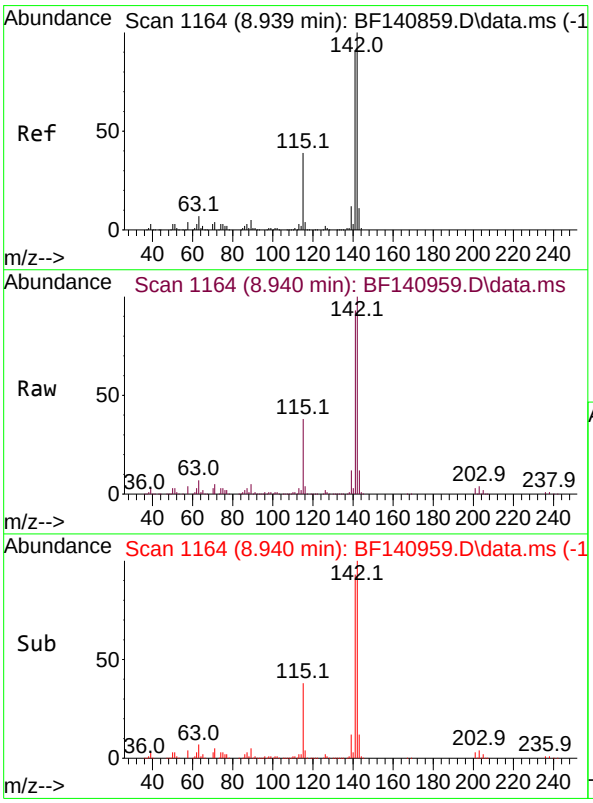
Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.0	106.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

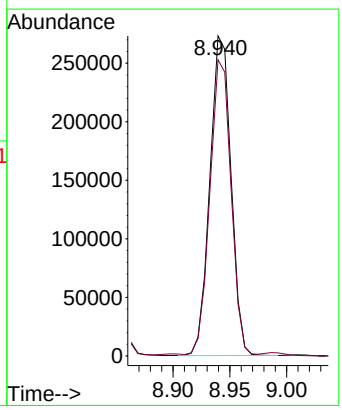
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

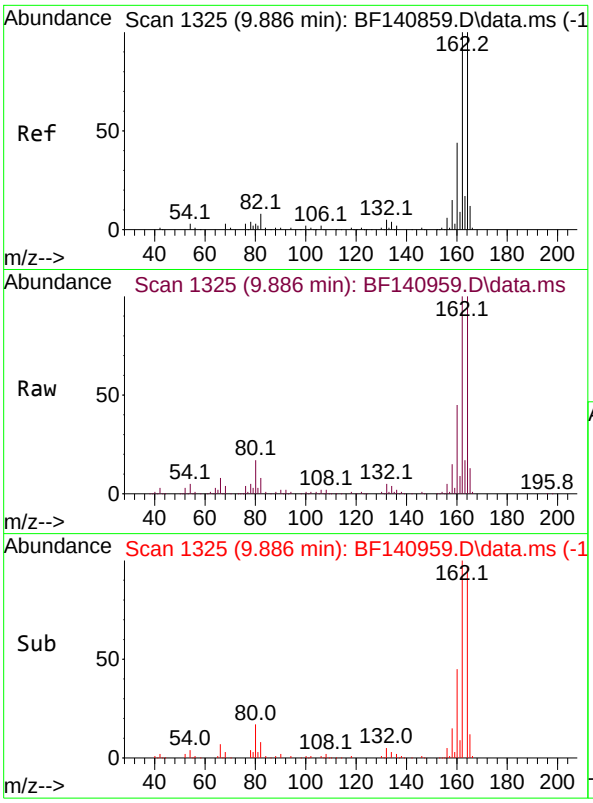


#38
1-Methylnaphthalene
Concen: 39.588 ng
RT: 8.940 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:142 Resp: 353547

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.4	110.0

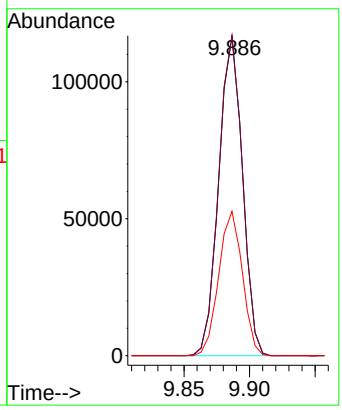




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:164 Resp: 14613

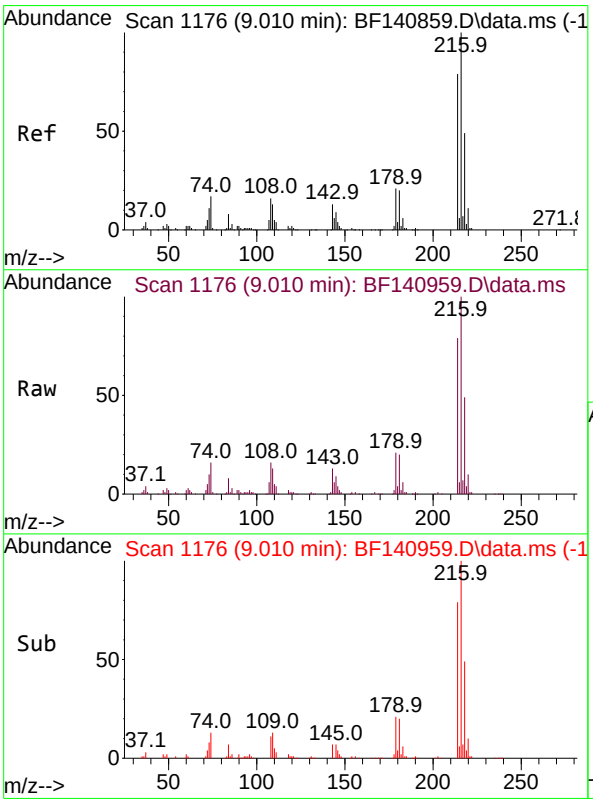
Ion	Ratio	Lower	Upper
164	100		
162	100.3	79.9	119.9
160	45.3	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

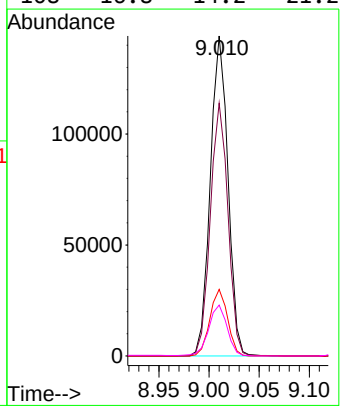
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

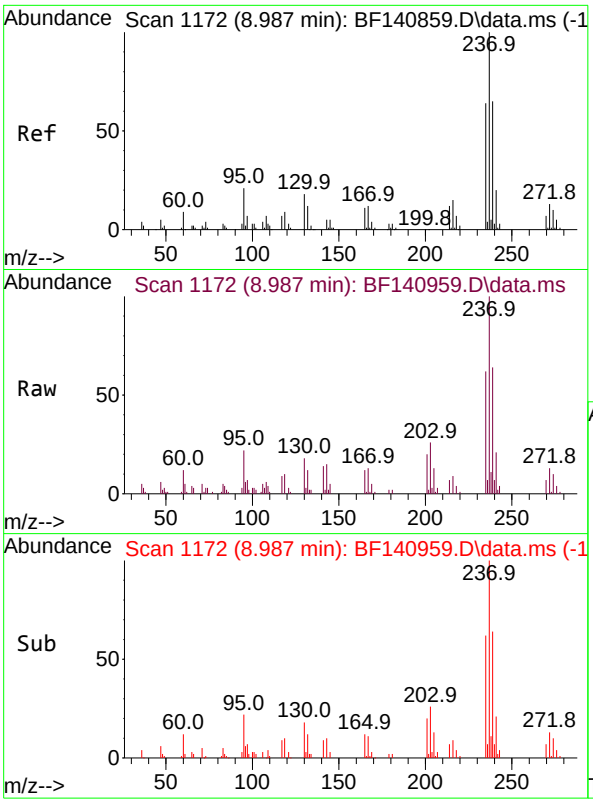


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.312 ng
RT: 9.010 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:216 Resp: 176578

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.6	95.4
179	20.8	17.0	25.4
108	16.8	14.2	21.2

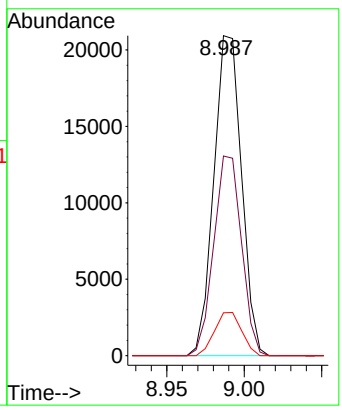




#41
Hexachlorocyclopentadiene
Concen: 28.674 ng
RT: 8.987 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:237 Resp: 2603

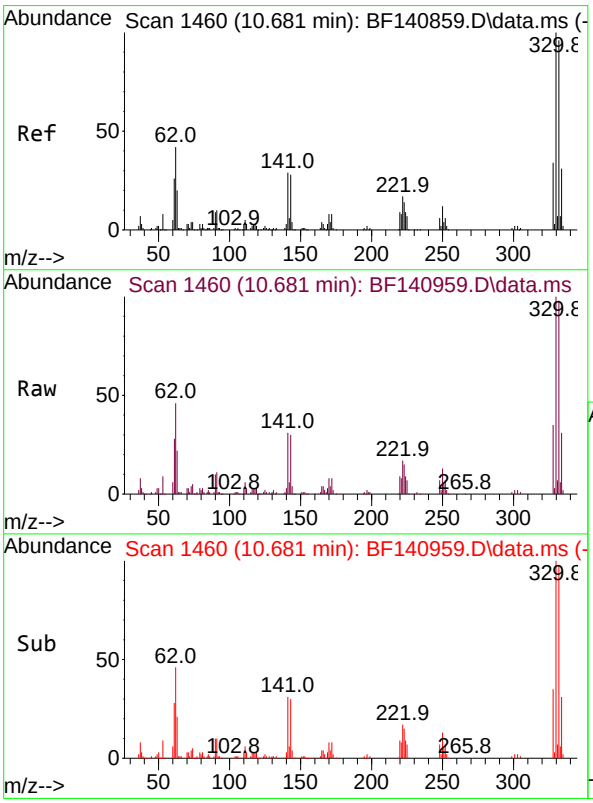
Ion	Ratio	Lower	Upper
237	100		
235	62.4	43.7	83.7
272	13.4	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

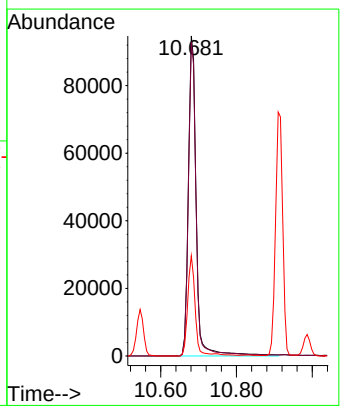
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

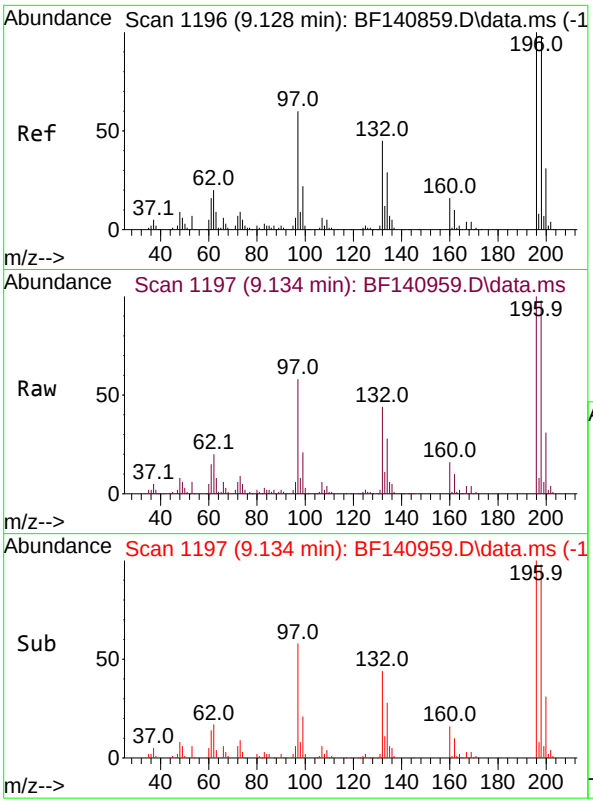


#42
2,4,6-Tribromophenol
Concen: 78.522 ng
RT: 10.681 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:330 Resp: 135717

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.2	114.4
141	29.0	24.9	37.3

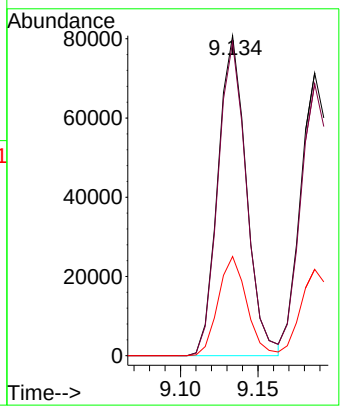




#43
2,4,6-Trichlorophenol
Concen: 37.469 ng
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:196 Resp: 10305

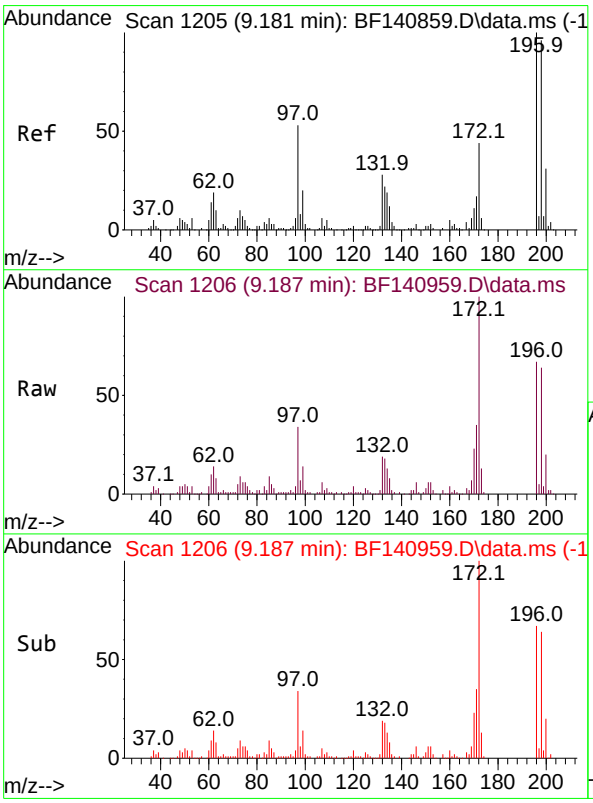
Ion	Ratio	Lower	Upper
196	100		
198	98.0	77.4	116.0
200	31.0	24.5	36.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

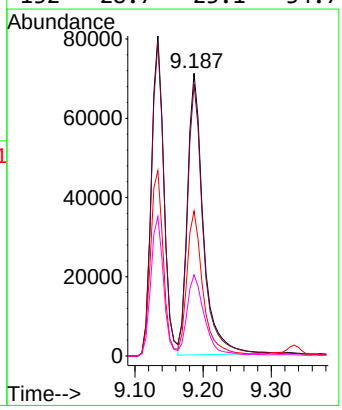
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

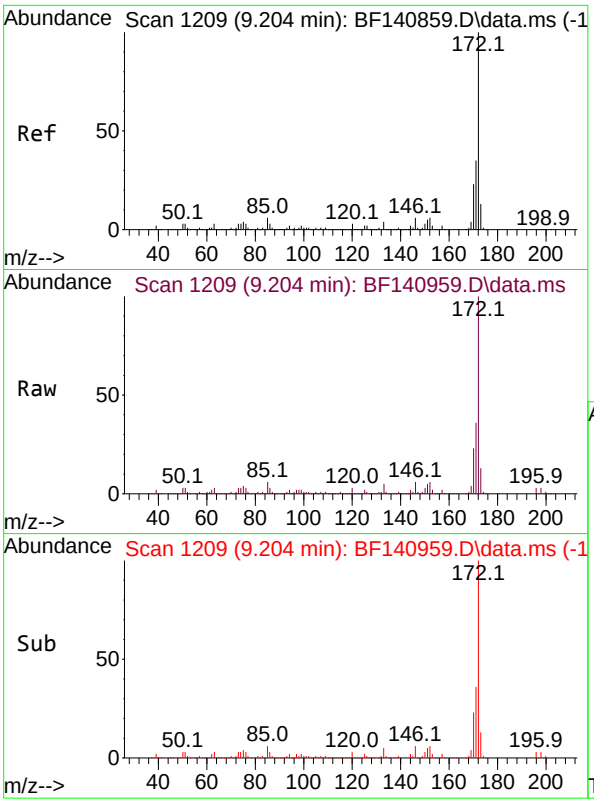


#44
2,4,5-Trichlorophenol
Concen: 37.641 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:196 Resp: 113791

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.2	115.8
97	51.3	42.2	63.4
132	28.7	23.1	34.7

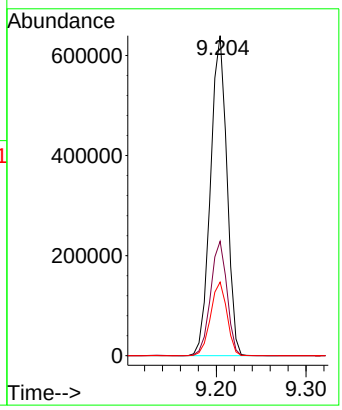




#45
2-Fluorobiphenyl
Concen: 76.352 ng
RT: 9.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:172 Resp: 81156

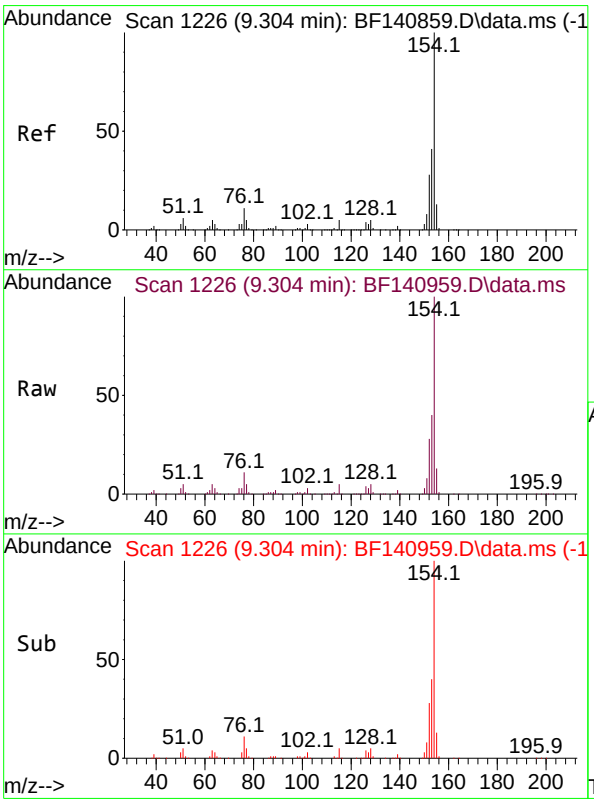
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.4	42.6
170	23.0	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

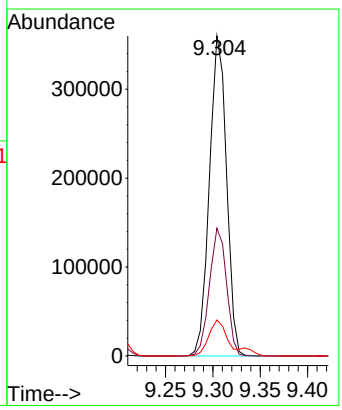
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

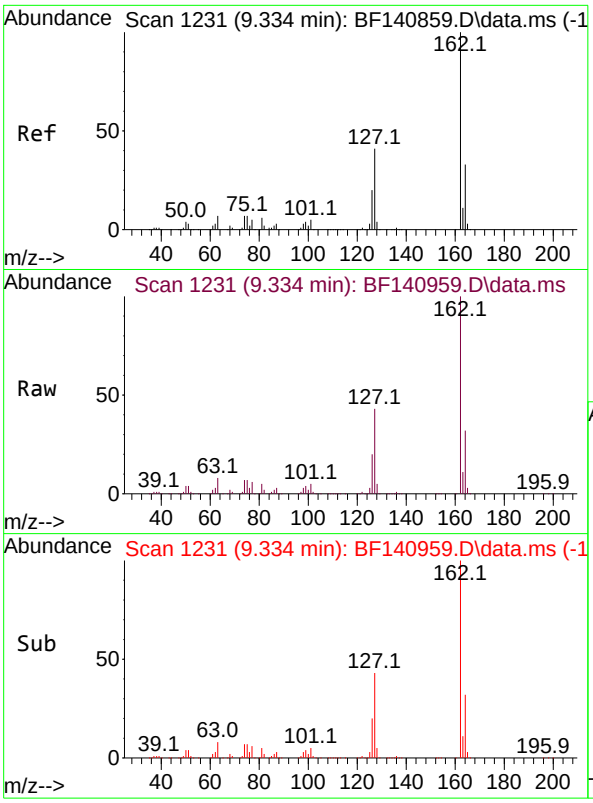


#46
1,1'-Biphenyl
Concen: 38.834 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:154 Resp: 451267

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.8	60.8
76	11.2	0.0	31.0

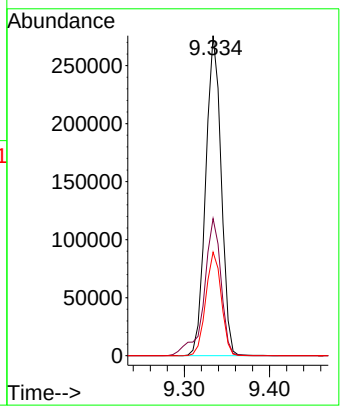




#47
2-Chloronaphthalene
Concen: 39.139 ng
RT: 9.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:162 Resp: 34794

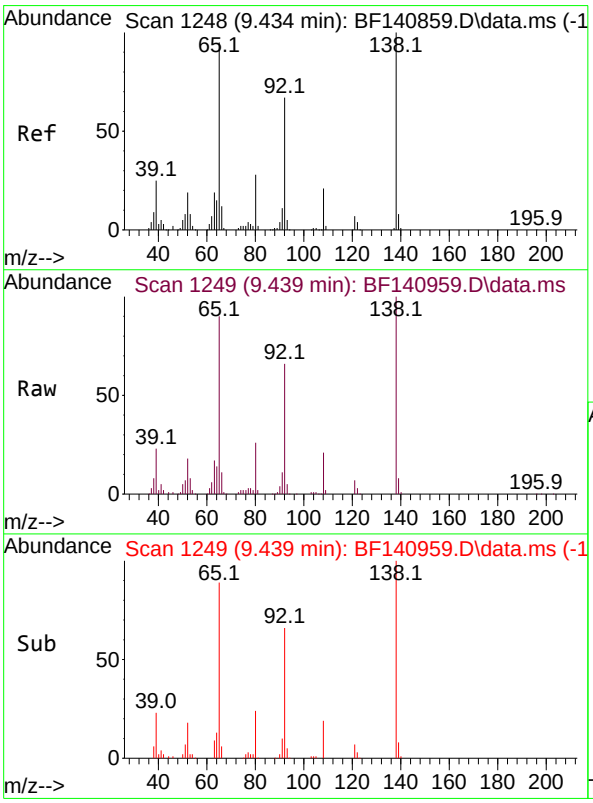
Ion	Ratio	Lower	Upper
162	100		
127	42.9	33.5	50.3
164	32.3	26.2	39.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

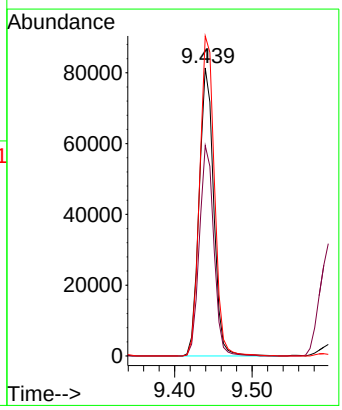
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

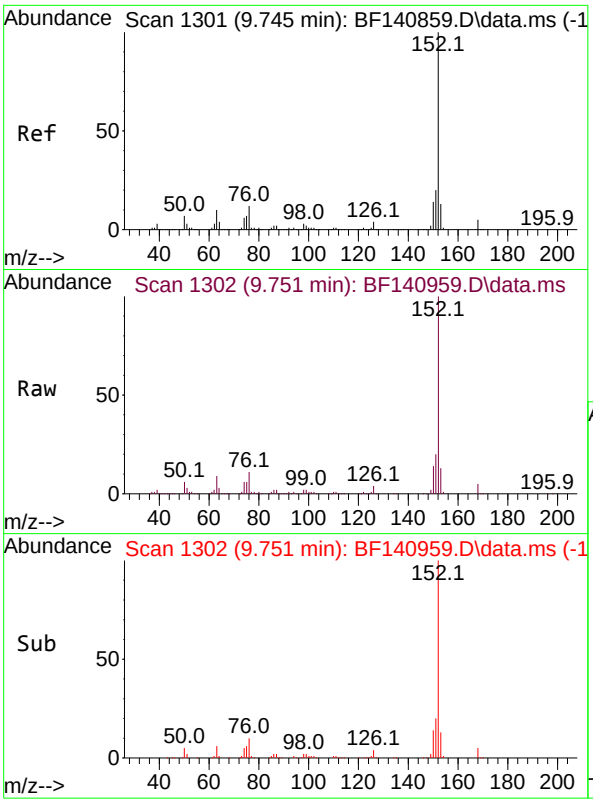


#48
2-Nitroaniline
Concen: 39.384 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 65 Resp: 105740

Ion	Ratio	Lower	Upper
65	100		
92	73.0	56.3	84.5
138	111.1	83.8	125.6

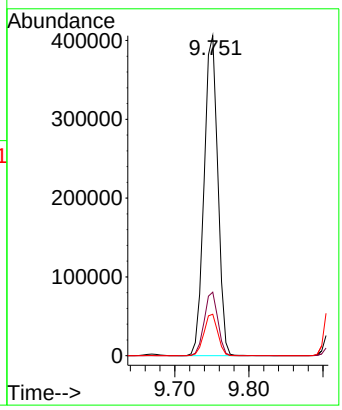




#49
Acenaphthylene
Concen: 40.003 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:152 Resp: 52261

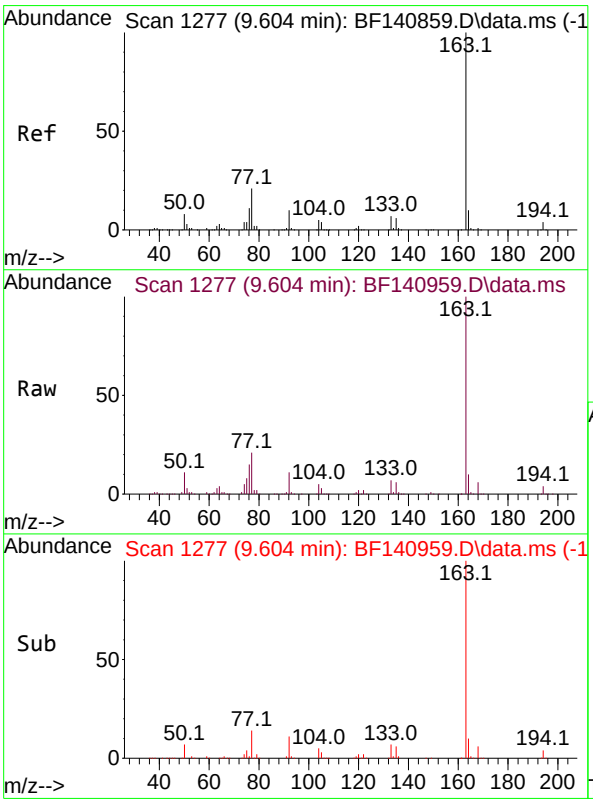
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.0	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

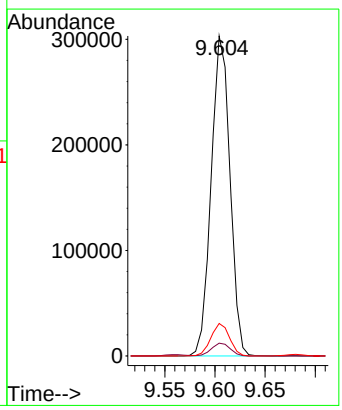
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

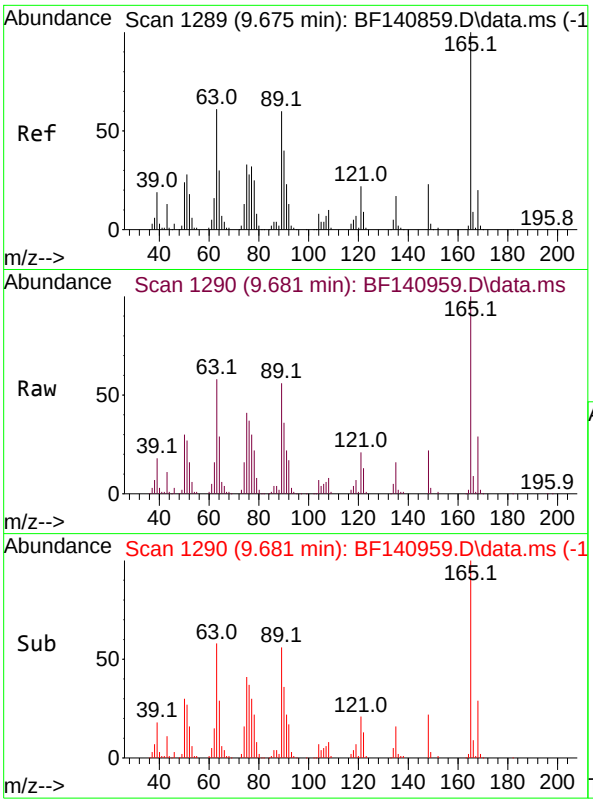


#50
Dimethylphthalate
Concen: 38.322 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:163 Resp: 394835

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	8.1	12.1





#51
2,6-Dinitrotoluene
Concen: 39.767 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

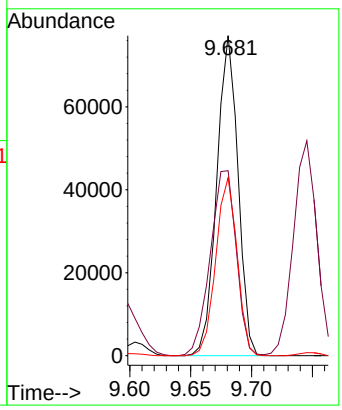
Tgt Ion:165 Resp: 9366

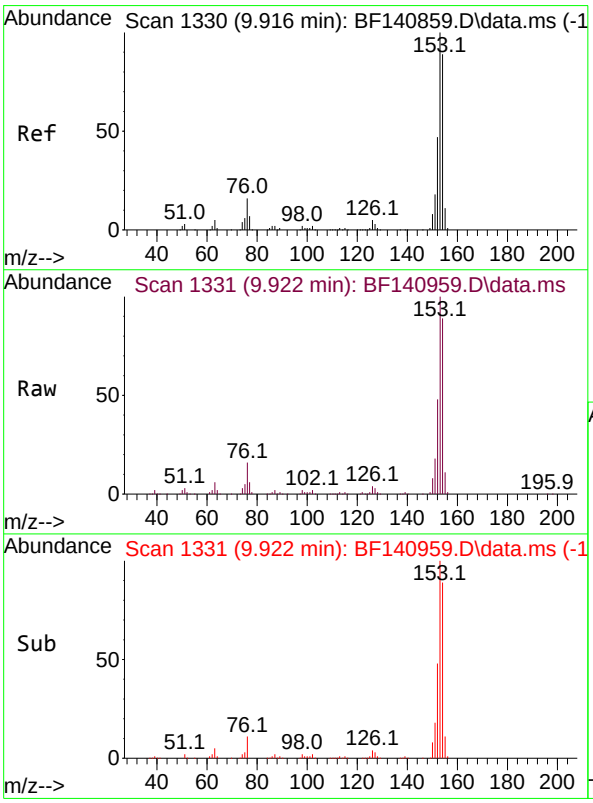
Ion	Ratio	Lower	Upper
165	100		
63	57.8	49.7	74.5
89	55.6	48.2	72.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

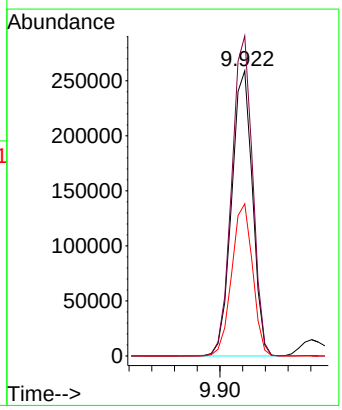


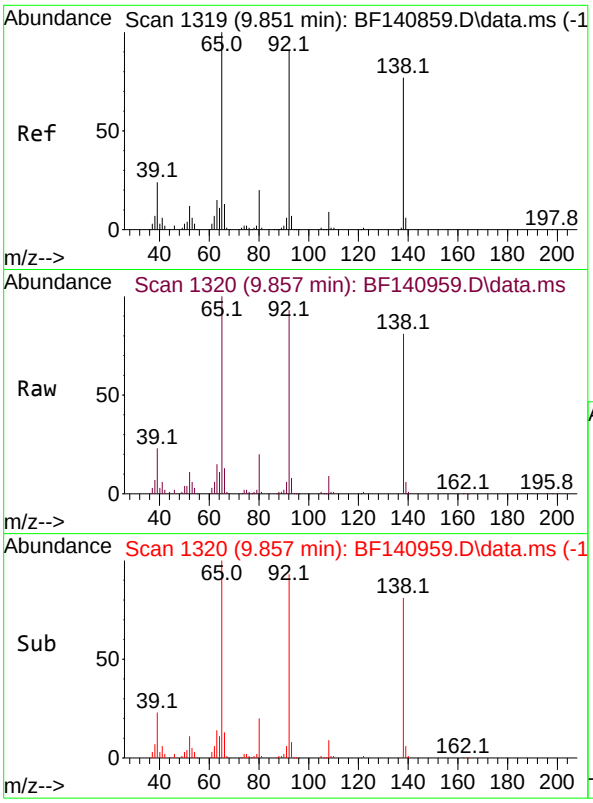


#52
Acenaphthene
Concen: 39.664 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:154 Resp: 331006

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.9	134.9
152	53.4	42.6	63.8





#53
3-Nitroaniline
Concen: 41.485 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

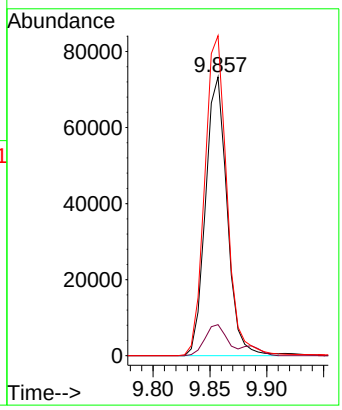
Tgt Ion:138 Resp: 9696

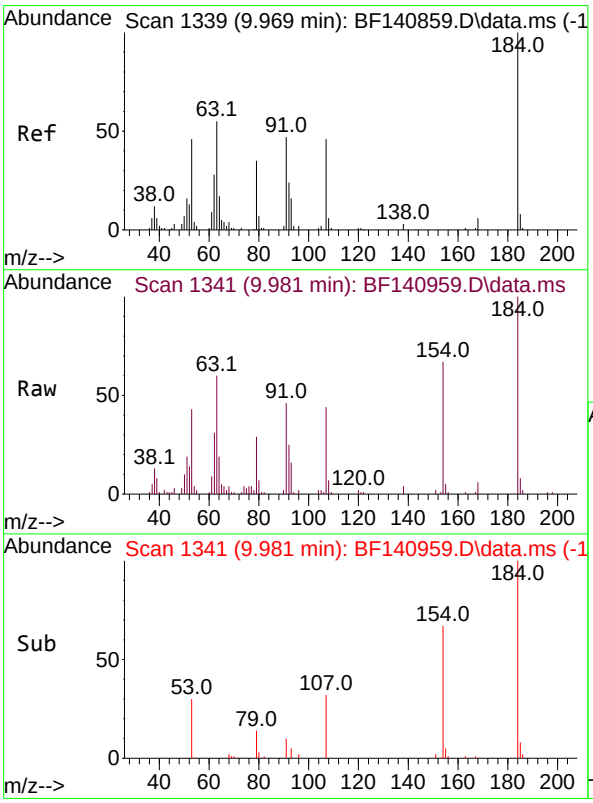
Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	114.8	95.5	143.3

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

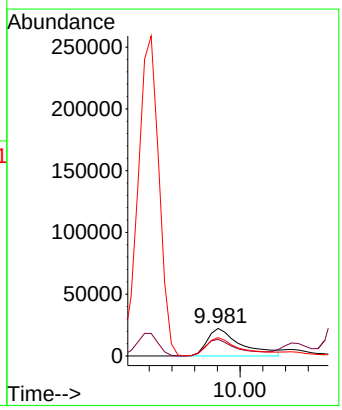


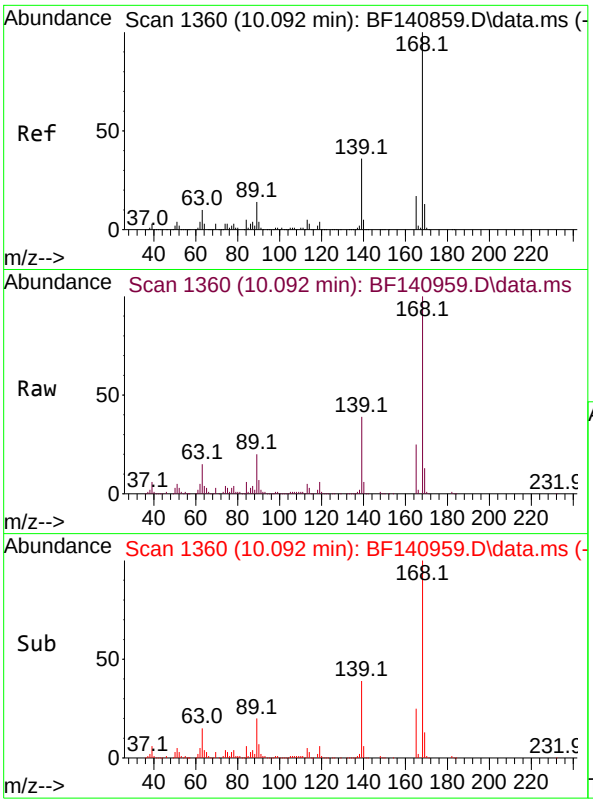


#54
2,4-Dinitrophenol
Concen: 43.346 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:184 Resp: 46064

Ion	Ratio	Lower	Upper
184	100		
63	60.2	51.6	77.4
154	66.7	56.1	84.1

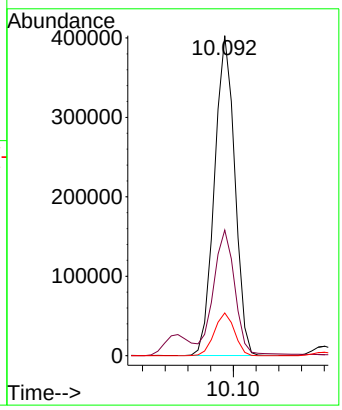




#55
Dibenzofuran
Concen: 38.647 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:168 Resp: 49975

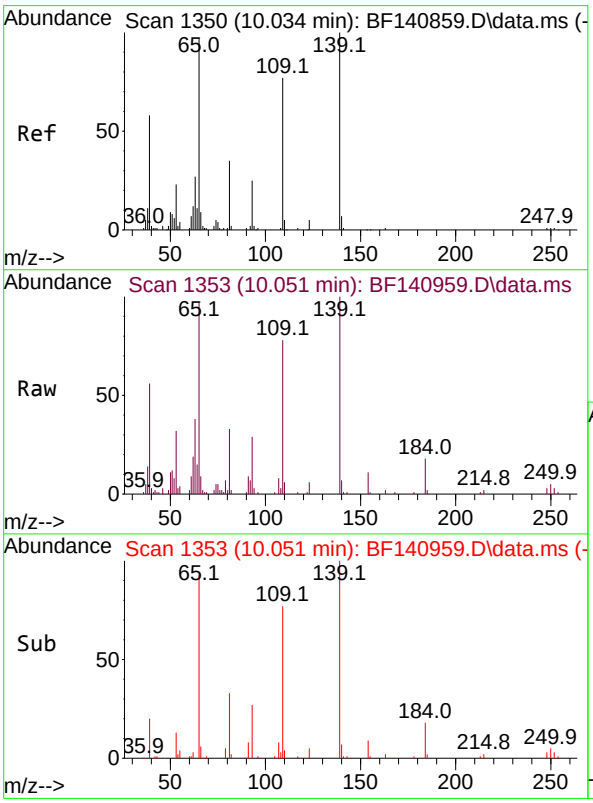
Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.1	46.7
169	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

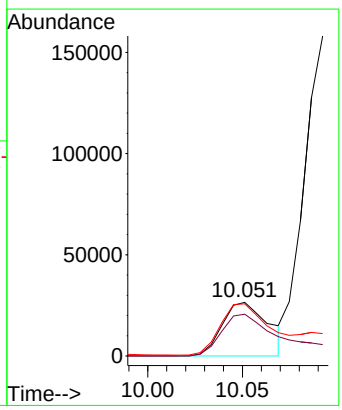
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

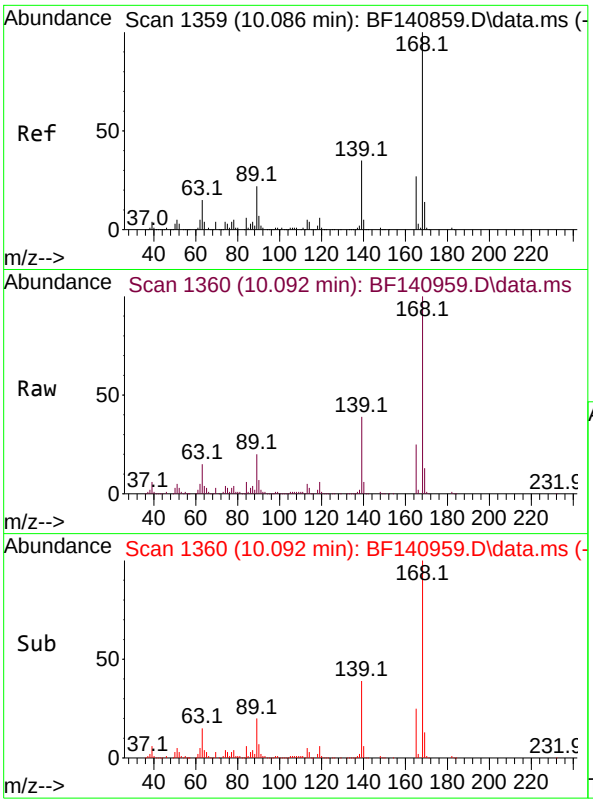


#56
4-Nitrophenol
Concen: 37.930 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:139 Resp: 44580

Ion	Ratio	Lower	Upper
139	100		
109	77.9	56.7	96.7
65	97.2	78.1	118.1

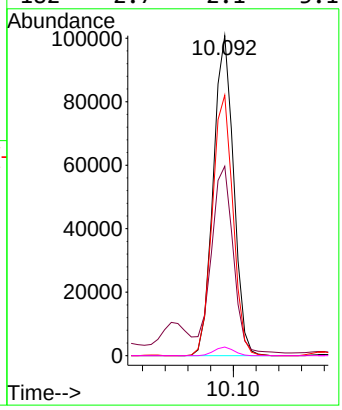




#57
2,4-Dinitrotoluene
Concen: 40.439 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:165 Resp: 12532

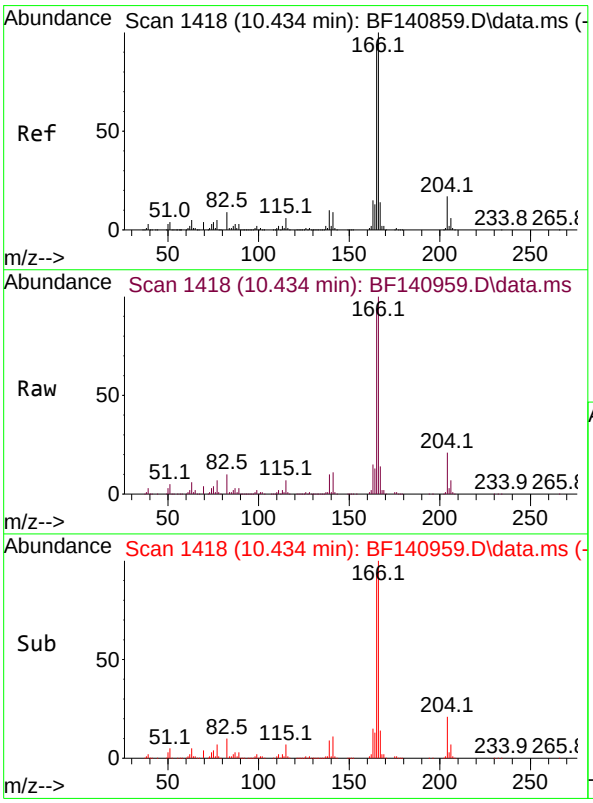
Ion	Ratio	Lower	Upper
165	100		
63	59.2	49.3	73.9
89	81.4	66.2	99.4
182	2.7	2.1	3.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

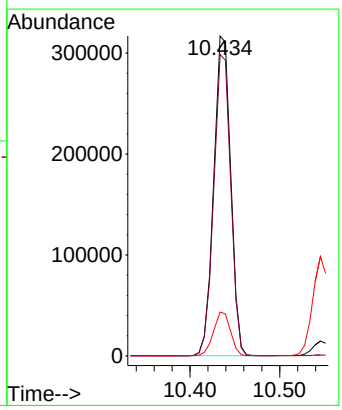
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

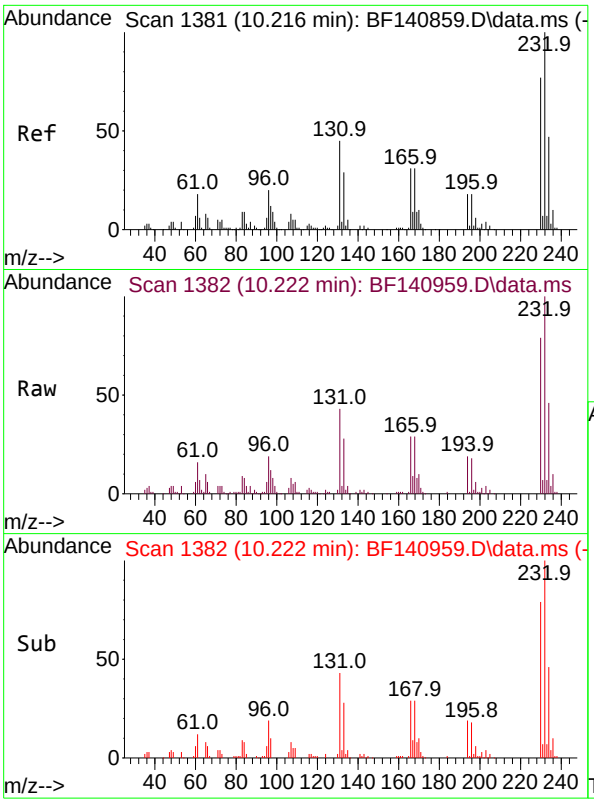


#58
Fluorene
Concen: 39.048 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:166 Resp: 416576

Ion	Ratio	Lower	Upper
166	100		
165	94.2	75.1	112.7
167	13.7	11.1	16.7

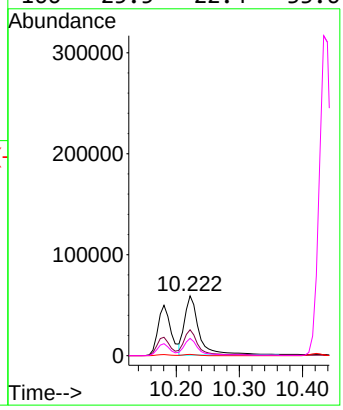




#59
2,3,4,6-Tetrachlorophenol
Concen: 37.667 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:232 Resp: 9278

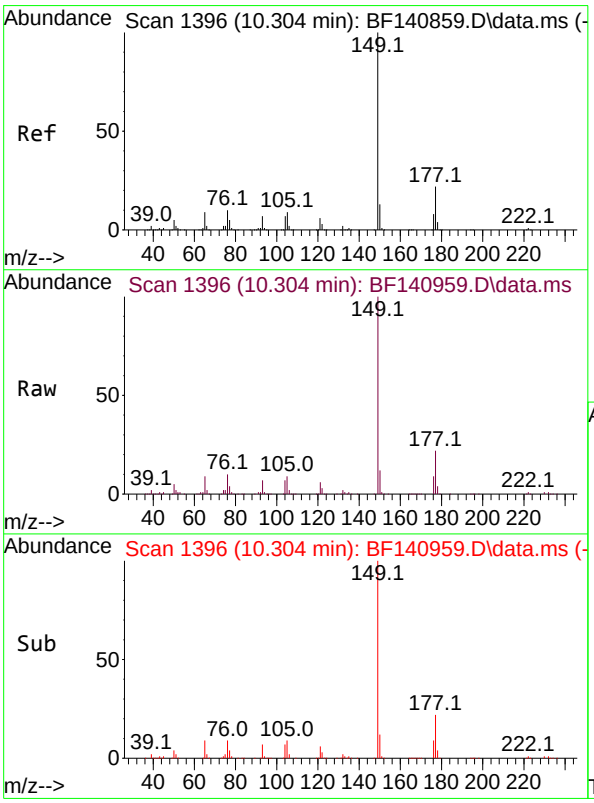
Ion	Ratio	Lower	Upper
232	100		
131	39.5	35.1	52.7
130	2.1	1.8	2.8
166	25.5	22.4	33.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

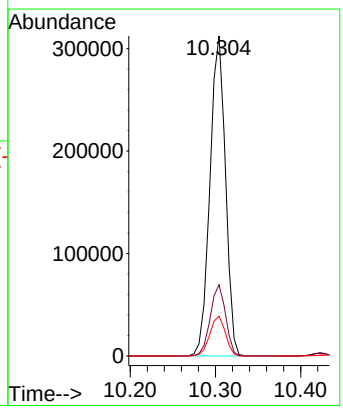
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

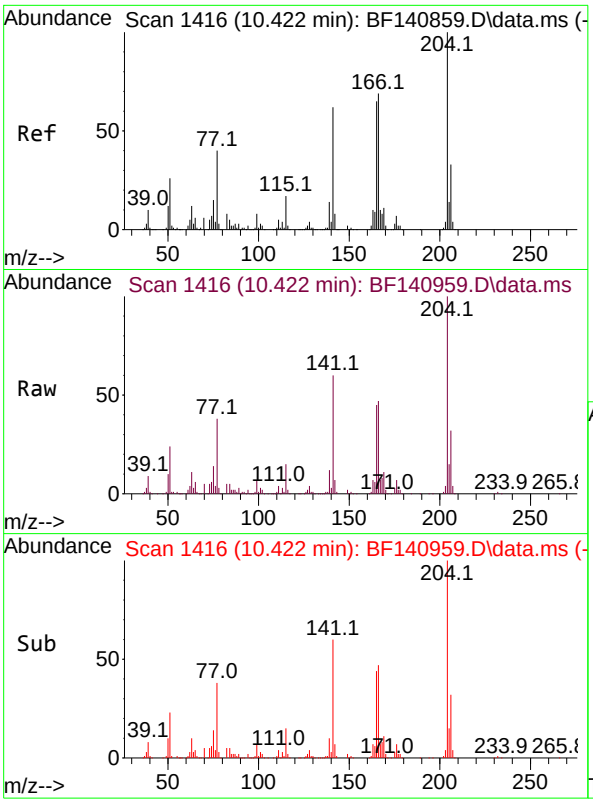


#60
Diethylphthalate
Concen: 37.002 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 395324

Ion	Ratio	Lower	Upper
149	100		
177	22.3	17.2	25.8
150	12.5	10.1	15.1

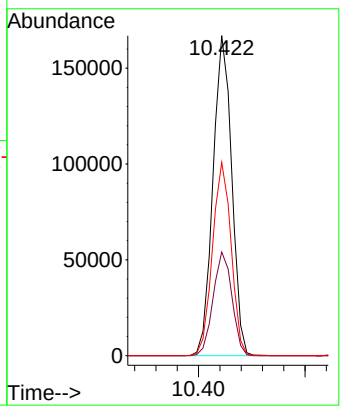




#61
4-Chlorophenyl-phenylether
Concen: 37.979 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:204 Resp: 20352

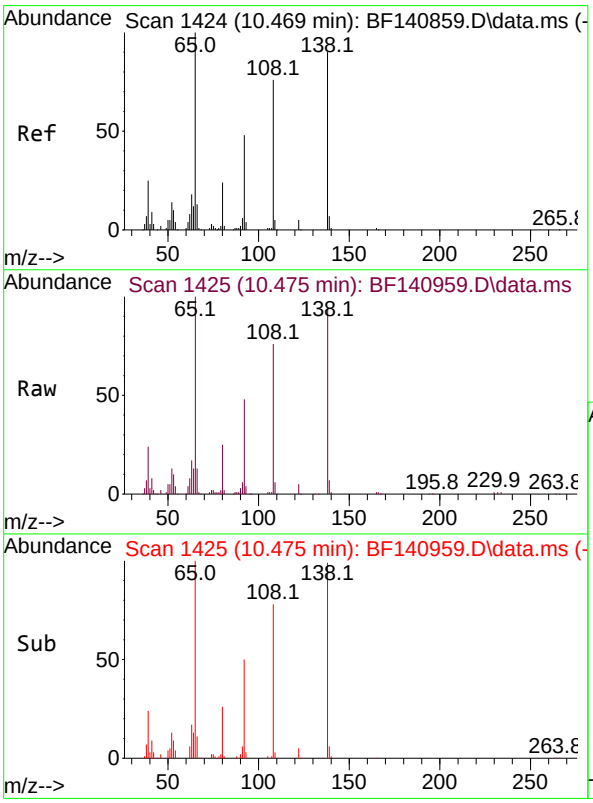
Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.5	39.7
141	60.4	50.0	75.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

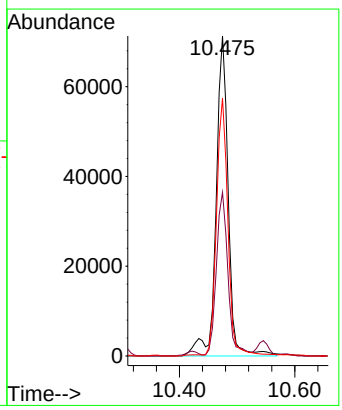
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

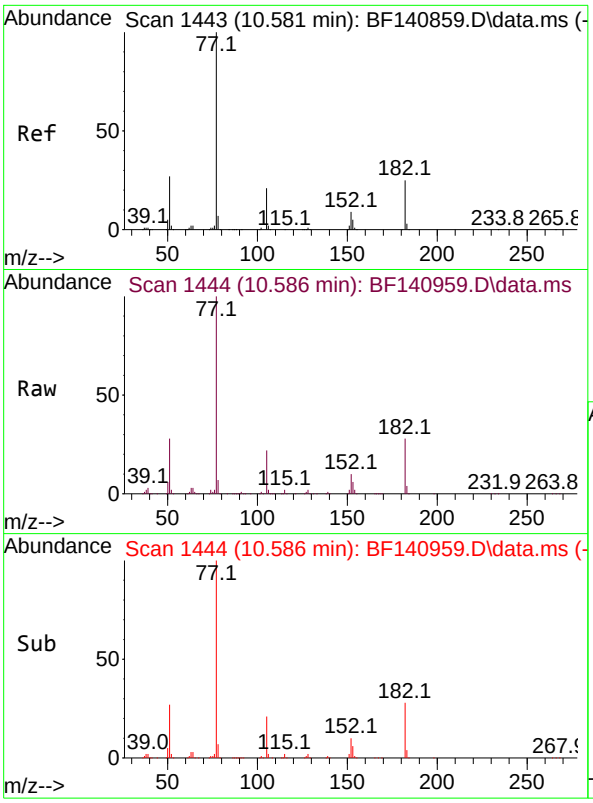


#62
4-Nitroaniline
Concen: 42.614 ng m
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:138 Resp: 104090

Ion	Ratio	Lower	Upper
138	100		
92	51.2	32.6	72.6
108	80.5	64.1	104.1

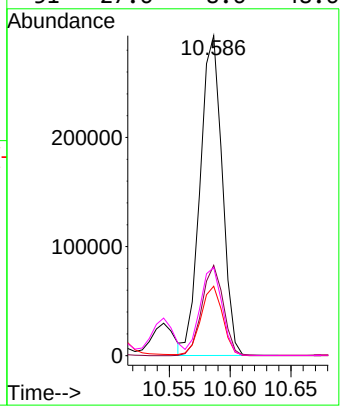




#63
Azobenzene
Concen: 36.682 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 77 Resp: 36843

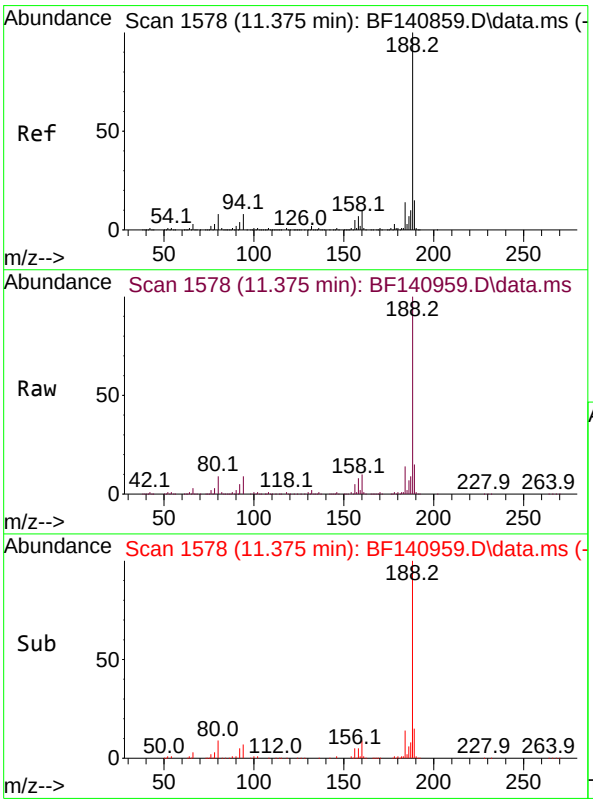
Ion	Ratio	Lower	Upper
77	100		
182	28.3	4.5	44.5
105	21.7	0.9	40.9
51	27.6	8.6	48.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

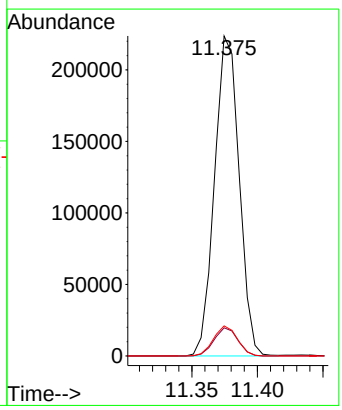
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

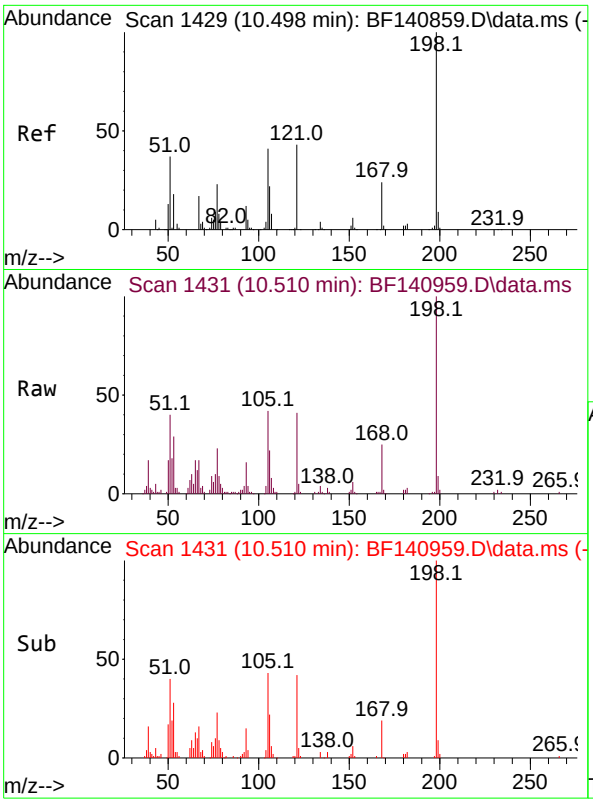


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:188 Resp: 291861

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.4	9.6
80	9.4	6.8	10.2

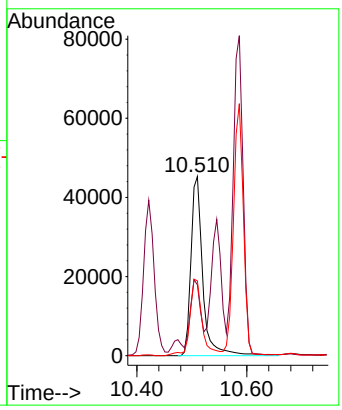




#65
4,6-Dinitro-2-methylphenol
Concen: 40.900 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:198 Resp: 6764

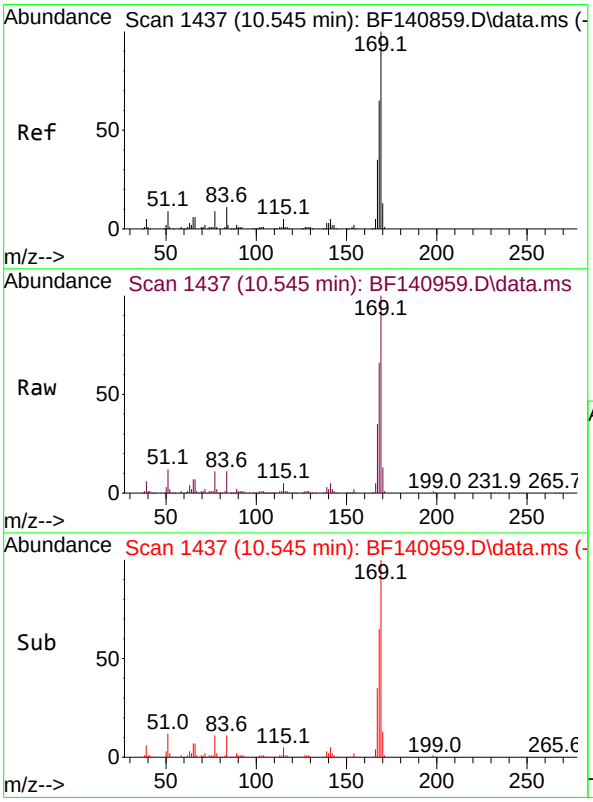
Ion	Ratio	Lower	Upper
198	100		
51	39.6	24.4	64.4
105	41.8	22.1	62.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

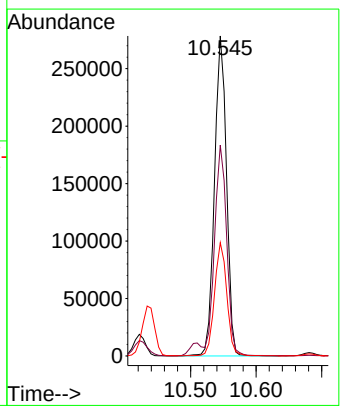
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

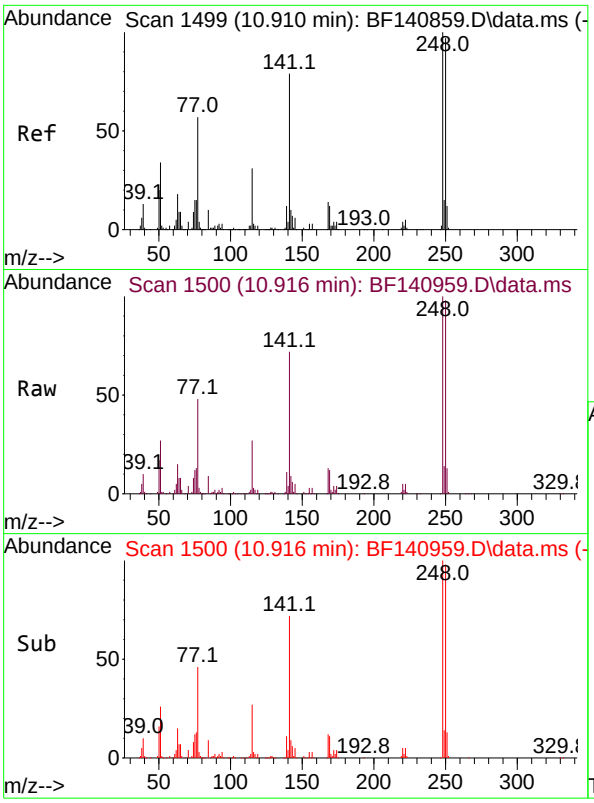


#66
n-Nitrosodiphenylamine
Concen: 39.380 ng
RT: 10.545 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:169 Resp: 353375

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.4	80.0
167	35.4	28.3	42.5

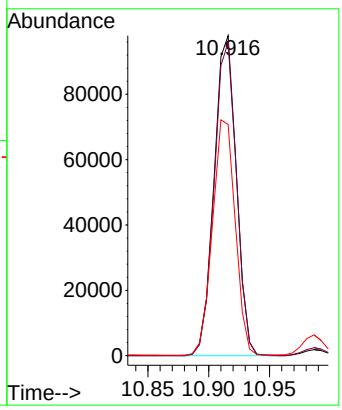




#67
4-Bromophenyl-phenylether
Concen: 38.203 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:248 Resp: 12473

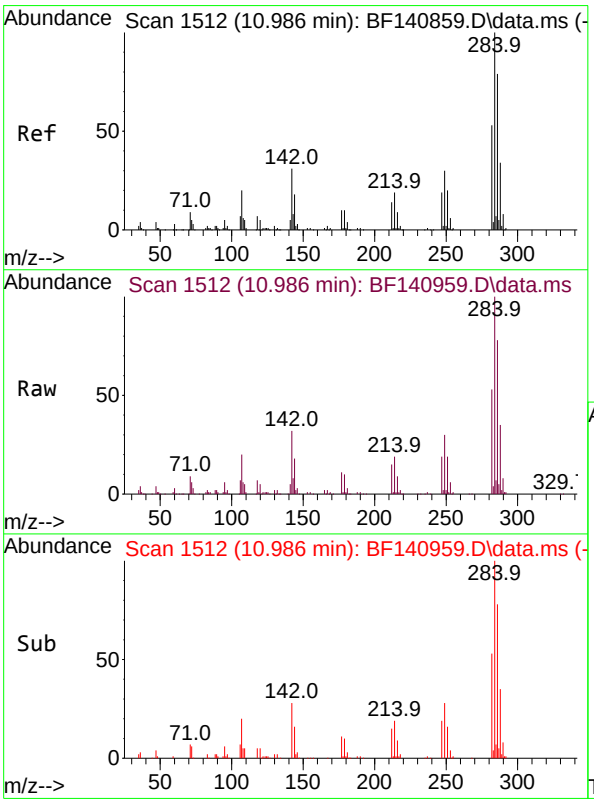
Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.4	116.2
141	72.3	62.9	94.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

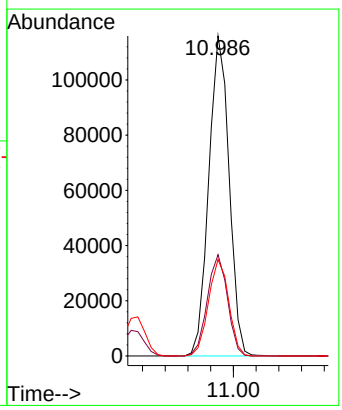
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

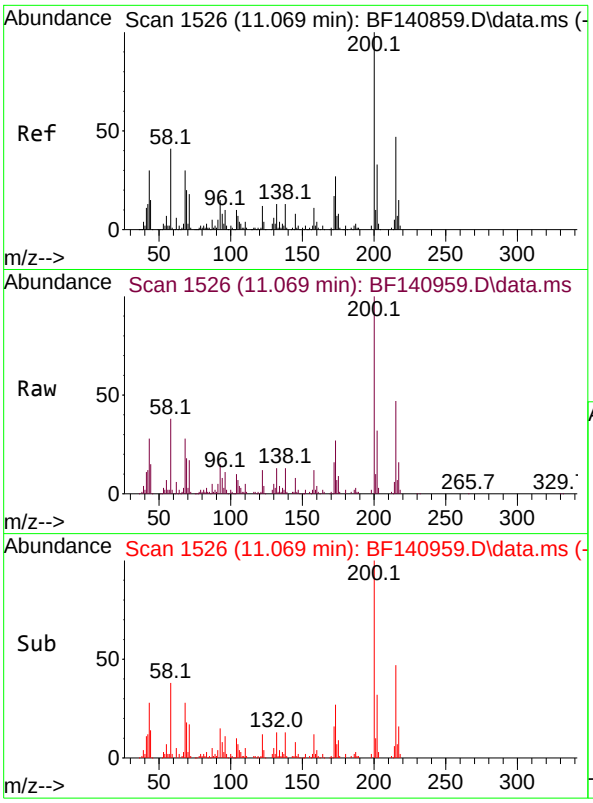


#68
Hexachlorobenzene
Concen: 38.882 ng
RT: 10.986 min Scan# 1512
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:284 Resp: 143941

Ion	Ratio	Lower	Upper
284	100		
142	31.7	24.6	36.8
249	30.1	24.3	36.5

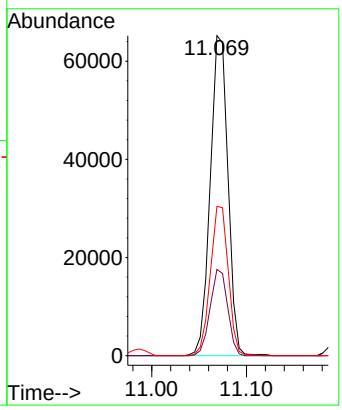




#69
Atrazine
Concen: 33.792 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

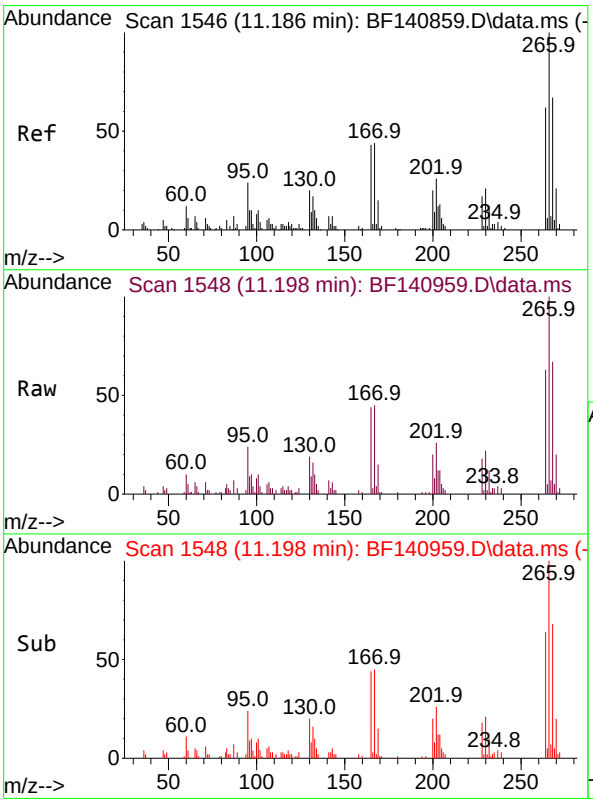
Tgt Ion:200 Resp: 8468

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.6	46.6
215	46.7	26.7	66.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

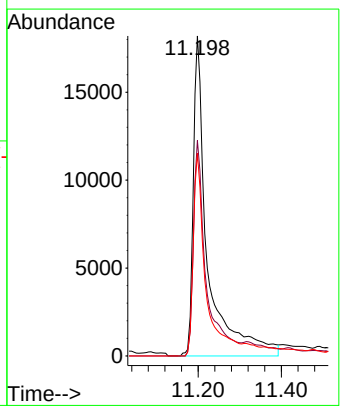
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

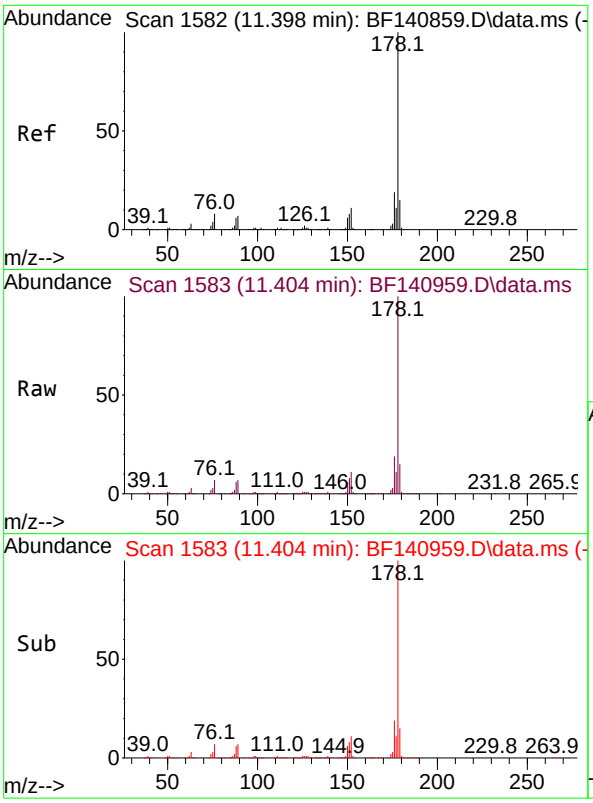


#70
Pentachlorophenol
Concen: 32.340 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:266 Resp: 43771

Ion	Ratio	Lower	Upper
266	100		
268	67.4	54.0	81.0
264	63.3	49.4	74.2

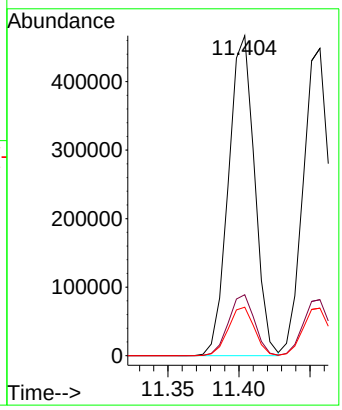




#71
Phenanthrene
Concen: 39.689 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:178 Resp: 59567

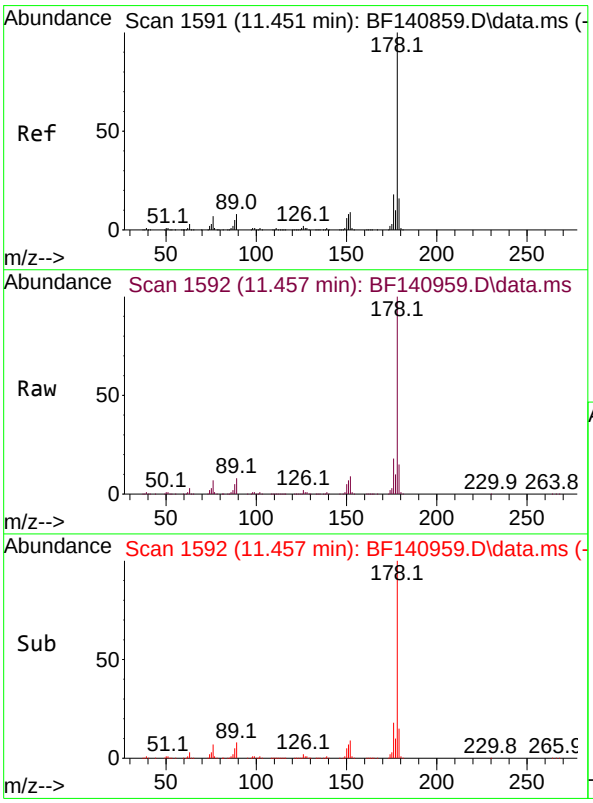
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.1	12.1	18.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

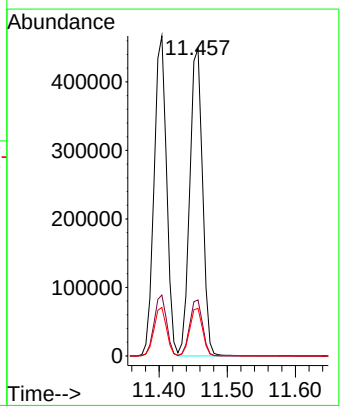
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

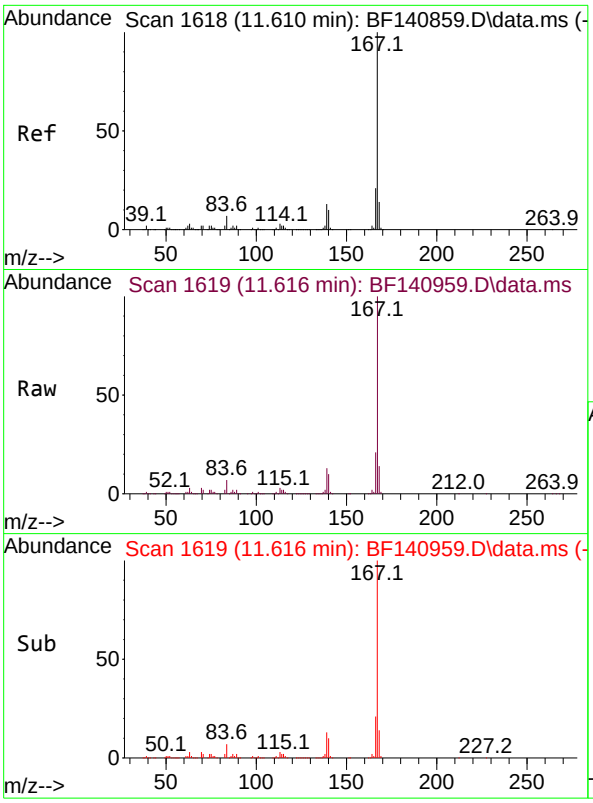


#72
Anthracene
Concen: 39.262 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:178 Resp: 580319

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.5	12.6	18.8

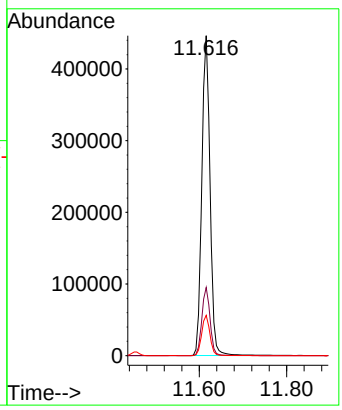




#73
Carbazole
Concen: 40.420 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:167 Resp: 58518

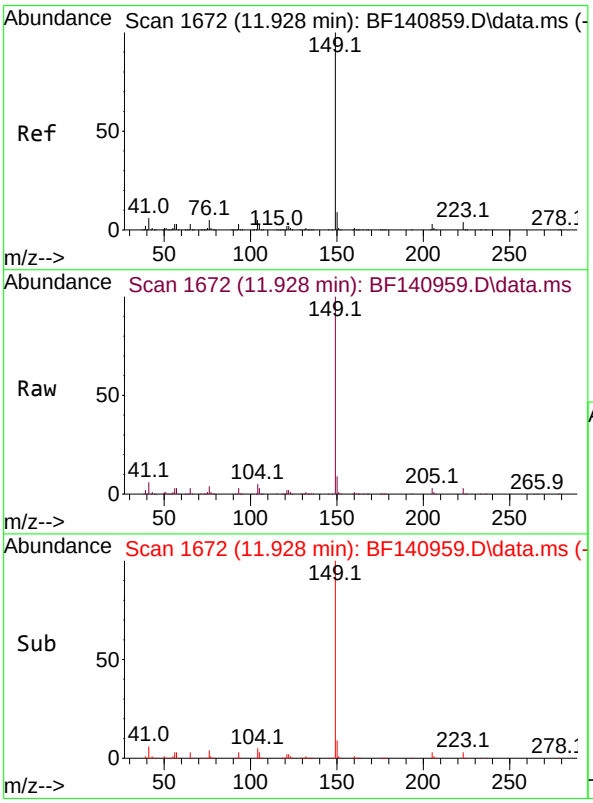
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	12.6	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

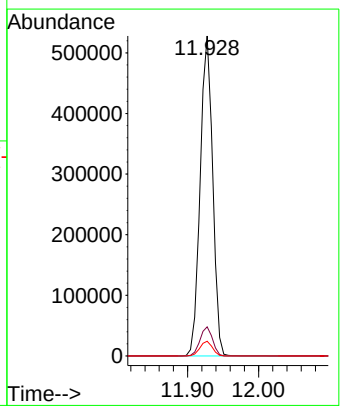
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

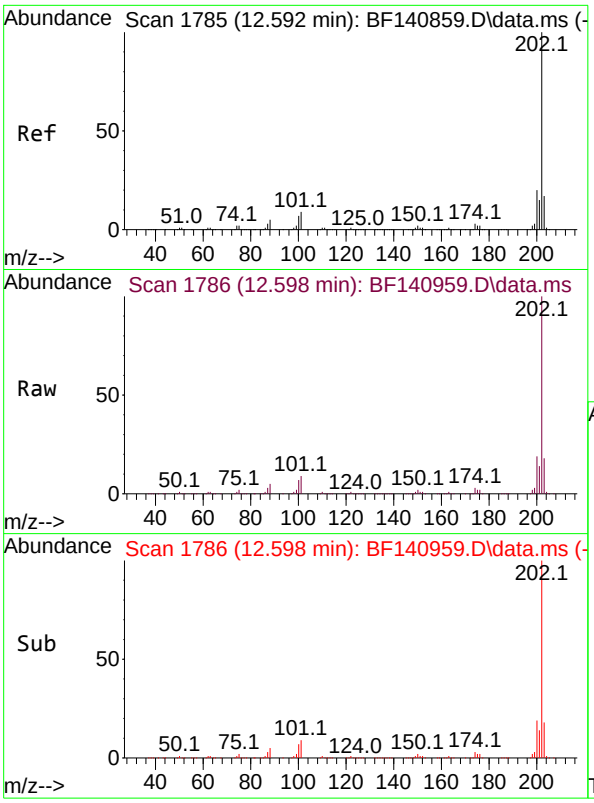


#74
Di-n-butylphthalate
Concen: 38.065 ng
RT: 11.928 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 646754

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.5	11.3
104	4.6	3.8	5.8

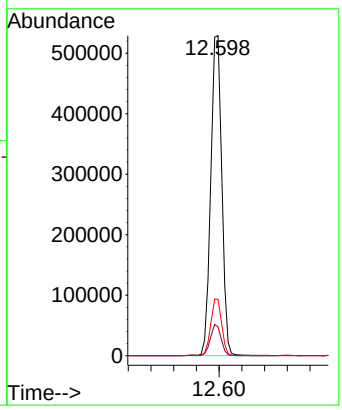




#75
Fluoranthene
Concen: 41.145 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:202 Resp: 71119

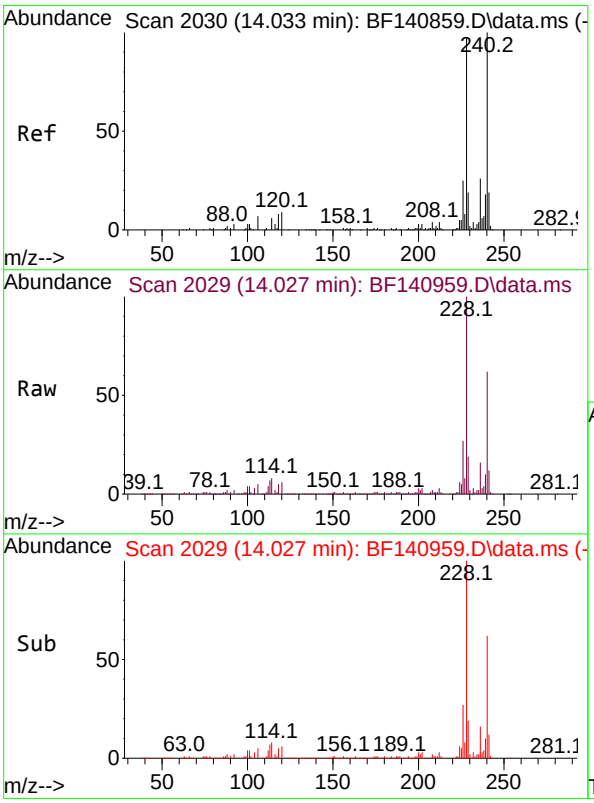
Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	29.3
203	17.6	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

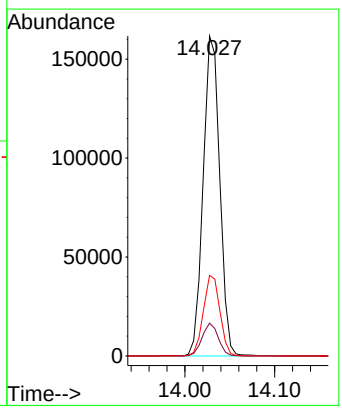
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

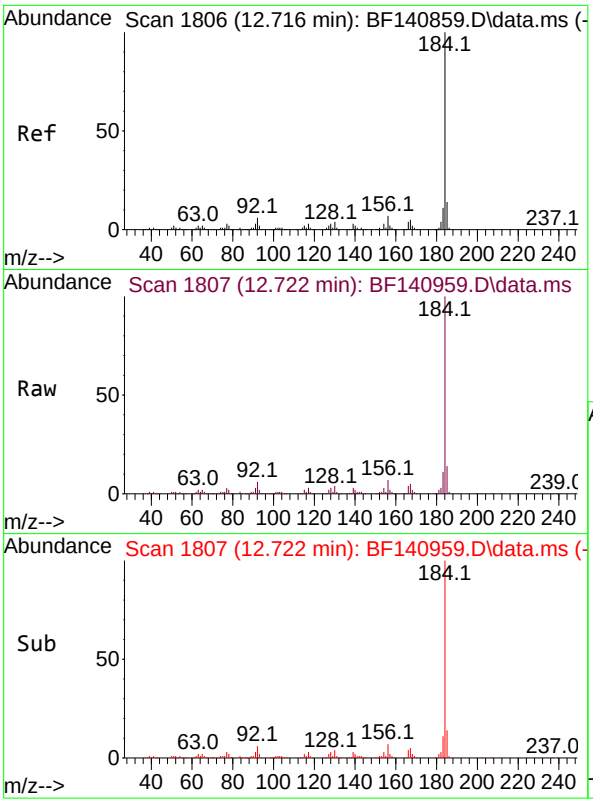


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:240 Resp: 207326

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.6	11.4
236	25.2	20.5	30.7

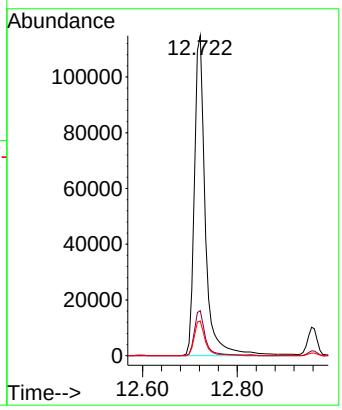




#77
Benzidine
Concen: 43.643 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:184 Resp: 18467

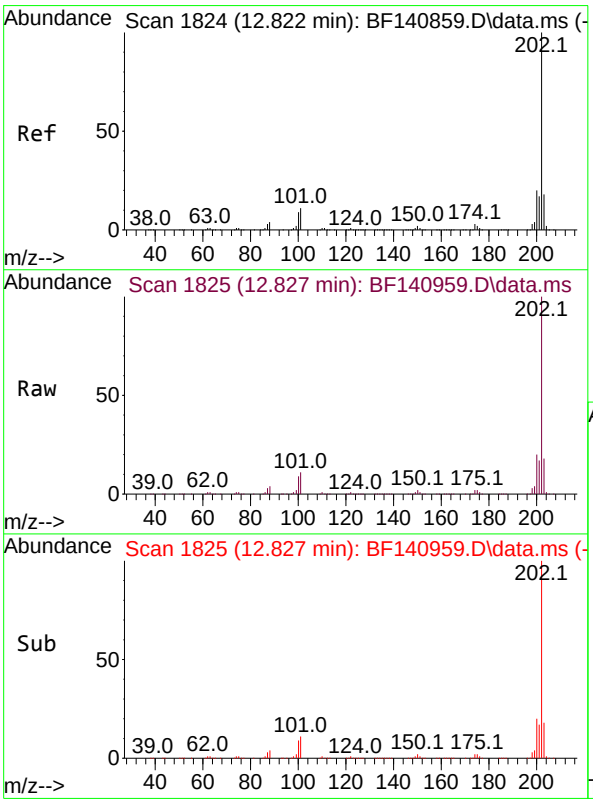
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.1	16.7
183	10.9	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

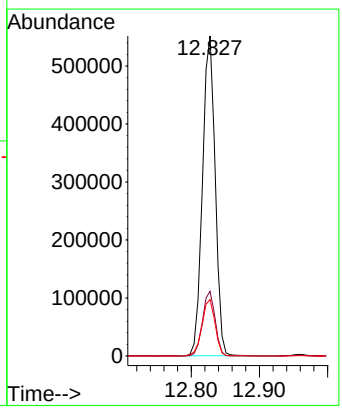
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

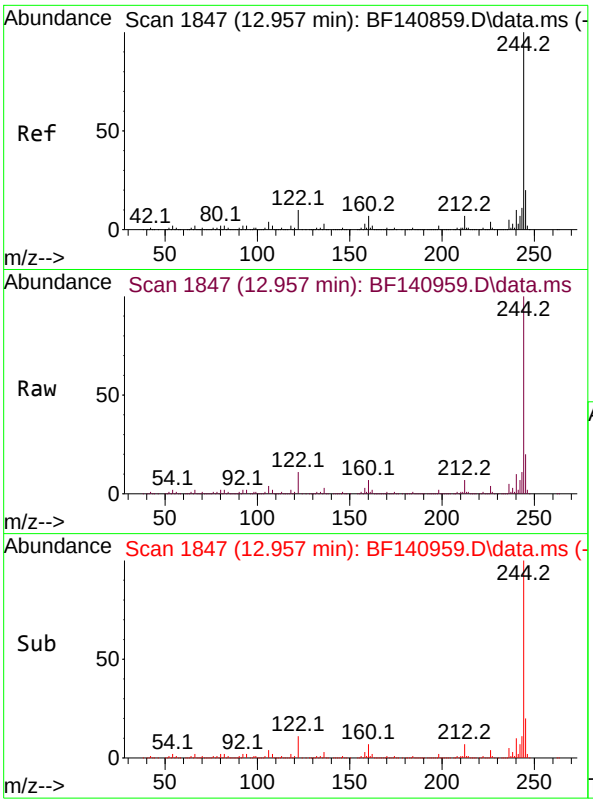


#78
Pyrene
Concen: 38.803 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:202 Resp: 715402

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.7	14.2	21.4

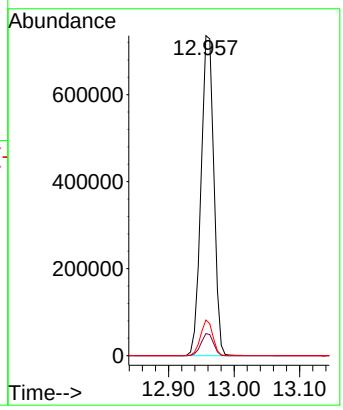




#79
Terphenyl-d14
Concen: 76.158 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:244 Resp: 100132

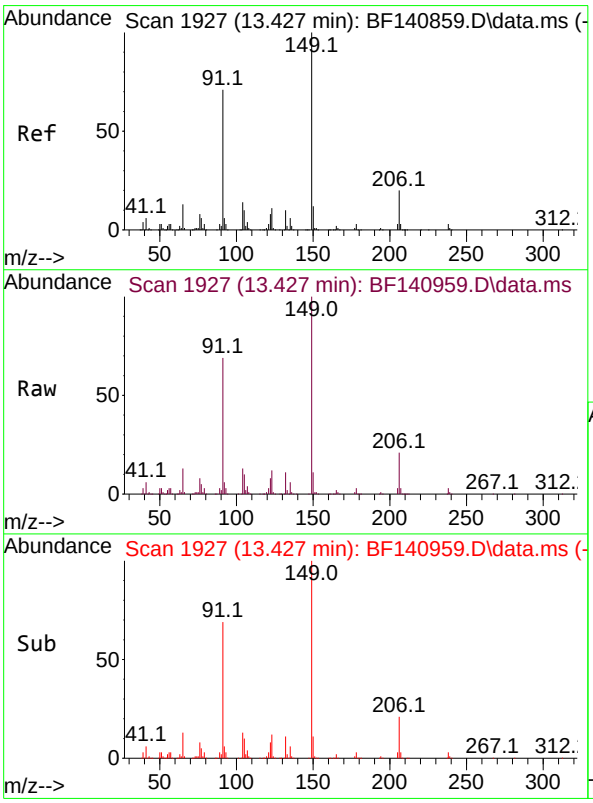
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	11.1	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

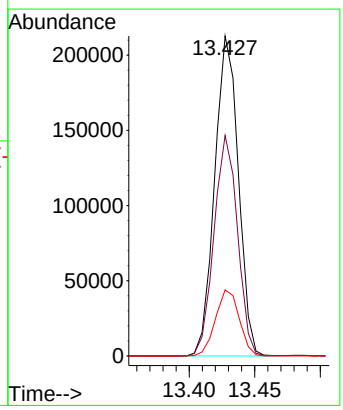
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

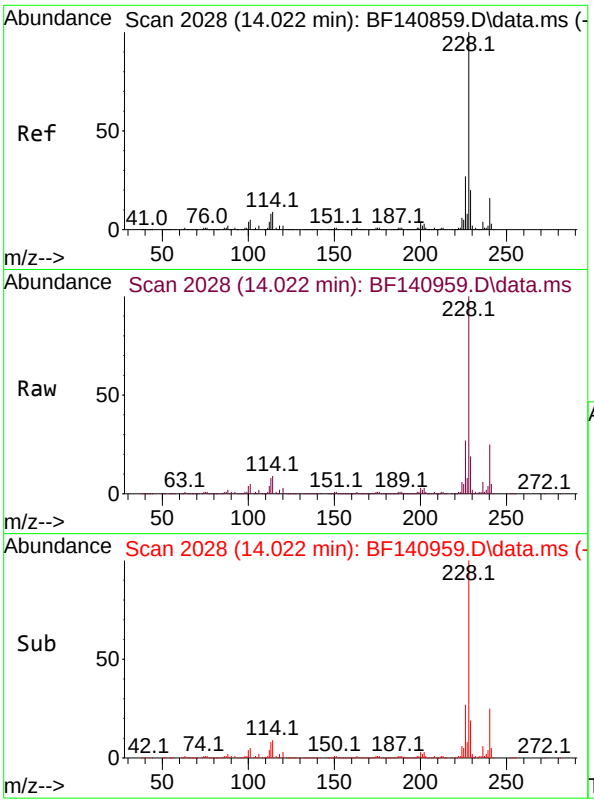


#80
Butylbenzylphthalate
Concen: 39.317 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 266719

Ion	Ratio	Lower	Upper
149	100		
91	68.9	56.7	85.1
206	20.7	16.4	24.6

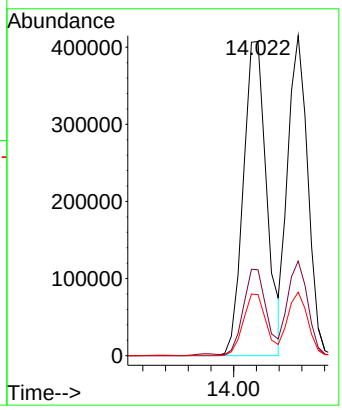




#81
Benzo(a)anthracene
Concen: 39.621 ng
RT: 14.022 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:228 Resp: 58218

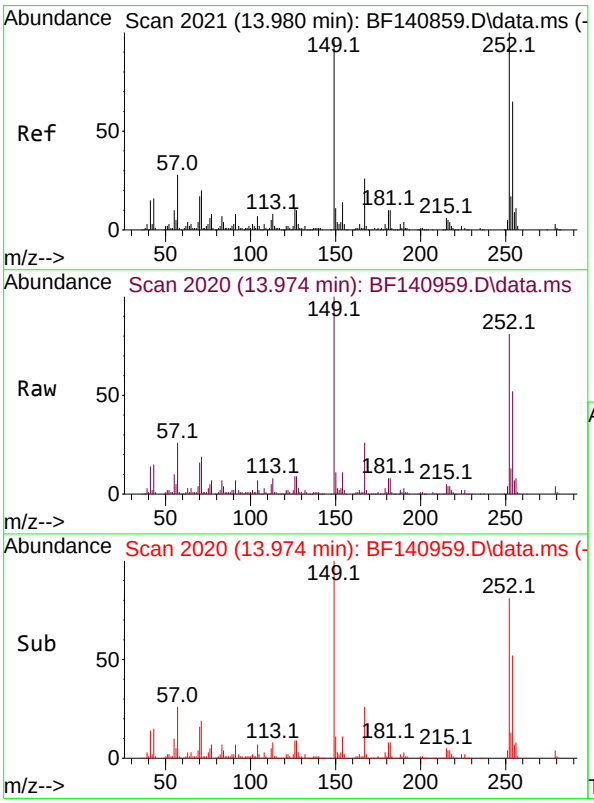
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.4	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

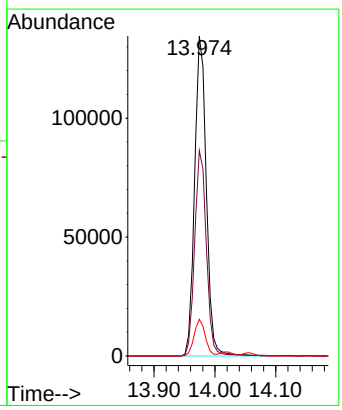
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

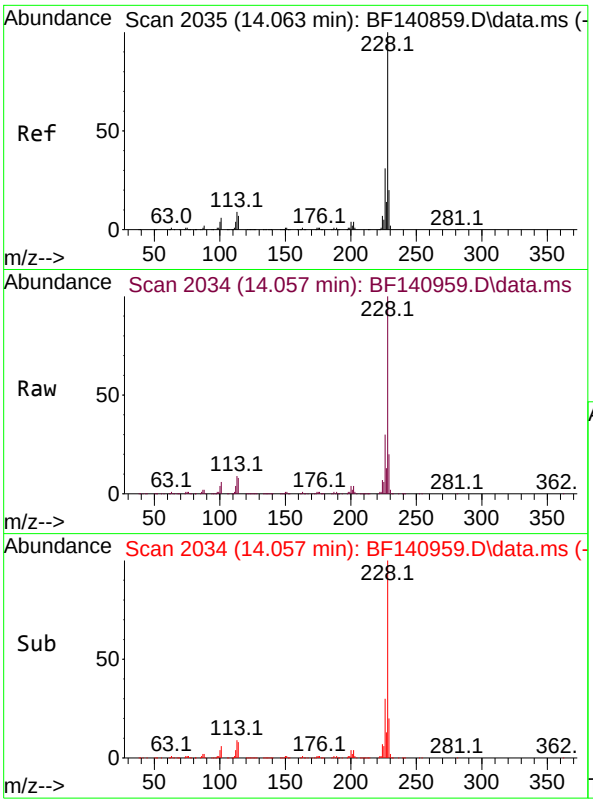


#82
3,3'-Dichlorobenzidine
Concen: 40.550 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 179769

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.3	78.5
126	11.5	8.4	12.6

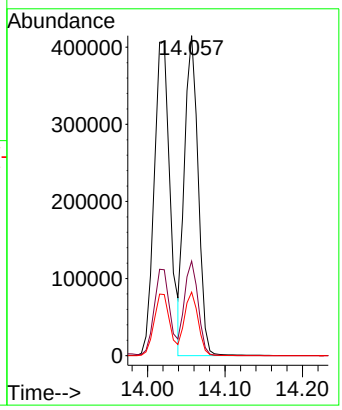




#83
Chrysene
Concen: 38.074 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

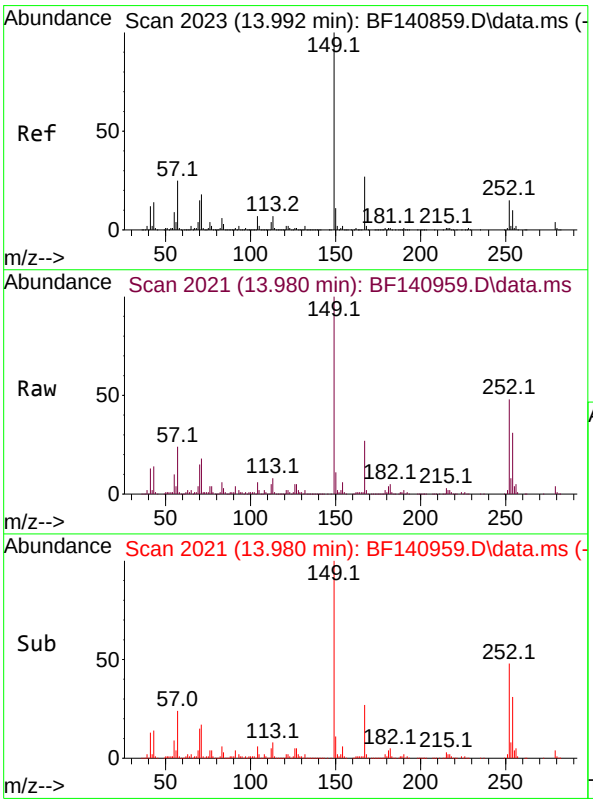
Tgt Ion:228 Resp: 50873

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	19.8	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

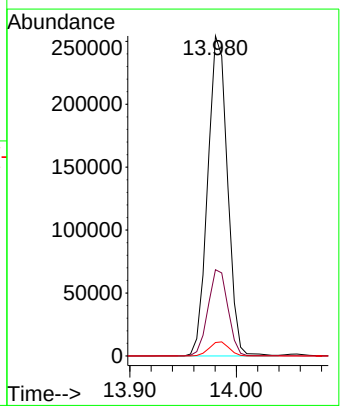
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

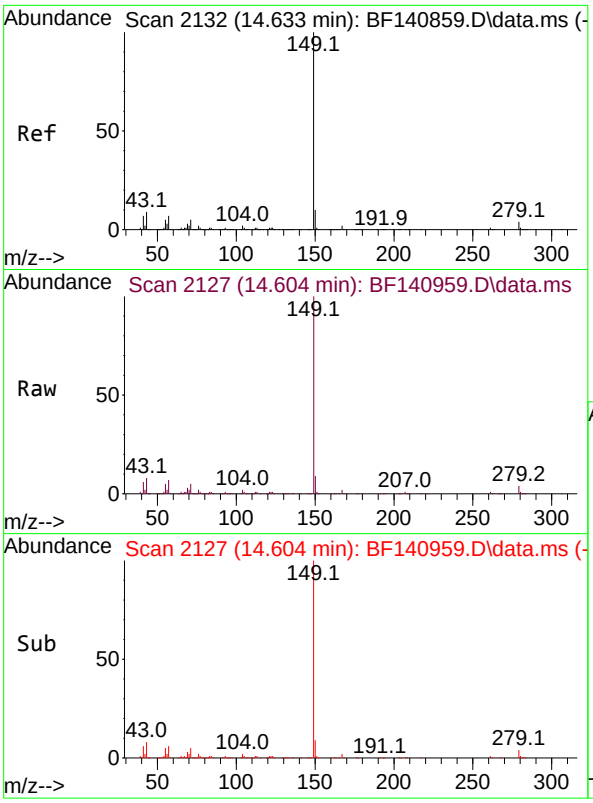


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.465 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 327711

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.8	32.8
279	4.2	3.5	5.3

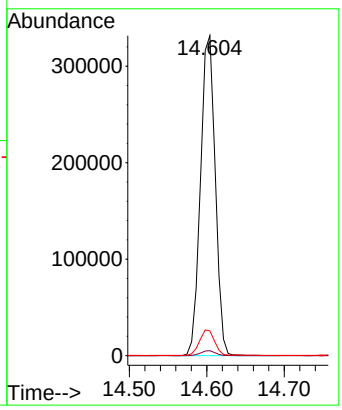




#85
Di-n-octyl phthalate
Concen: 33.196 ng
RT: 14.604 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 43930

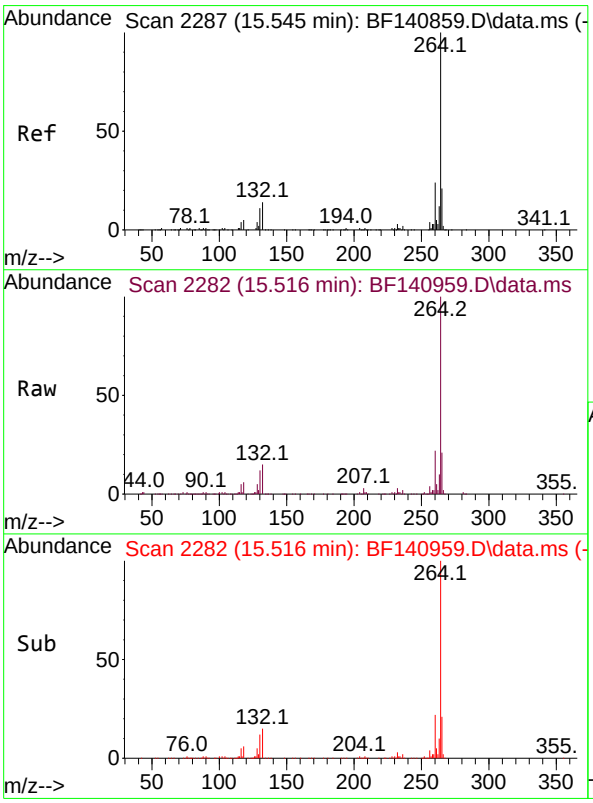
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	7.0	10.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

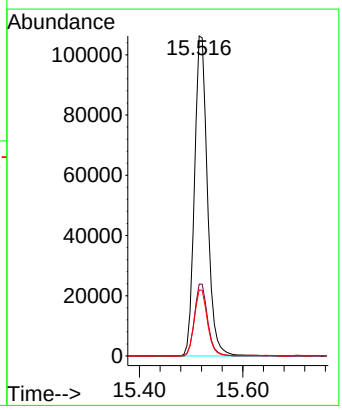
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

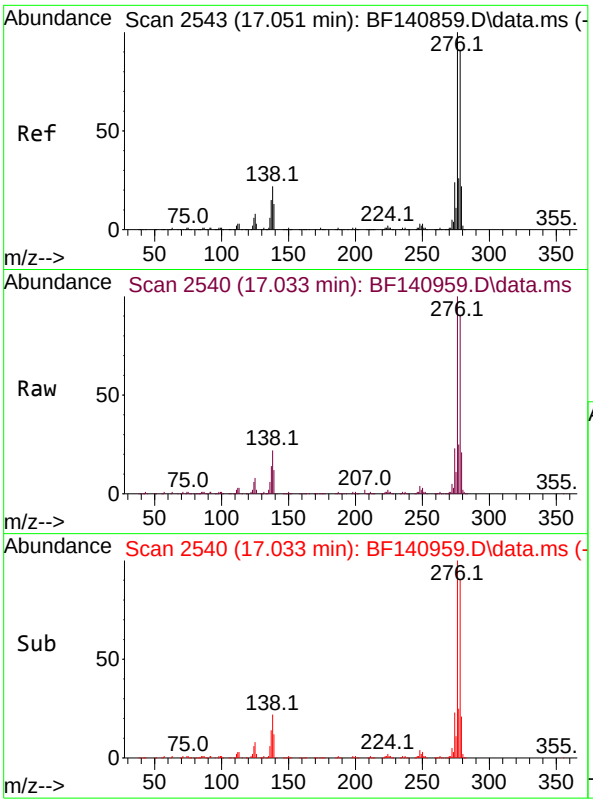


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2282
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:264 Resp: 184556

Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.1	28.7
265	20.7	17.0	25.4

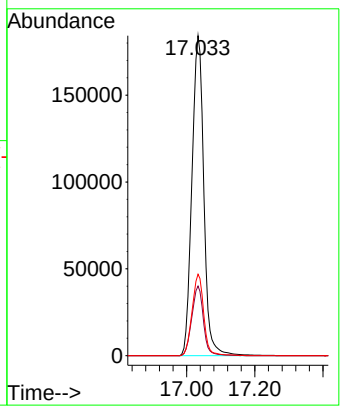




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.707 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:276 Resp: 44578

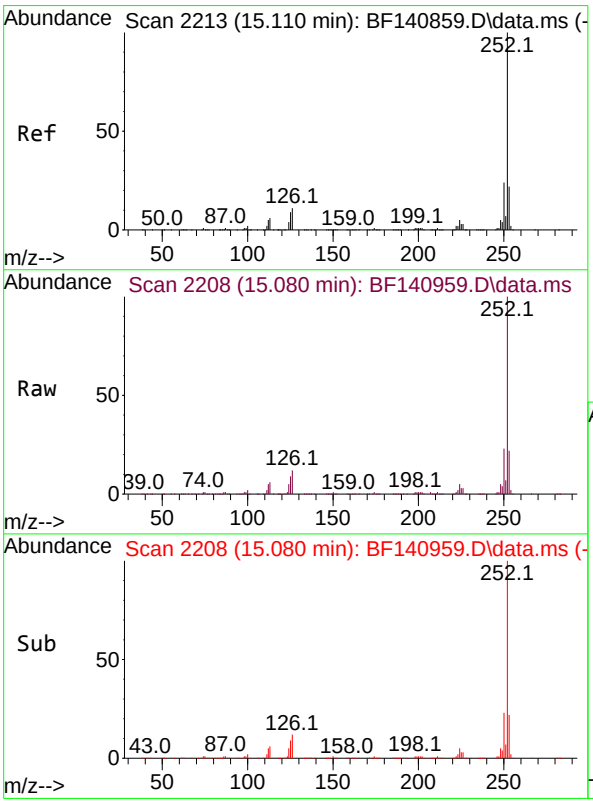
Ion	Ratio	Lower	Upper
276	100		
138	21.1	16.9	25.3
277	24.9	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

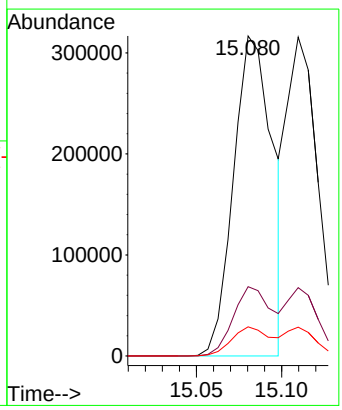
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

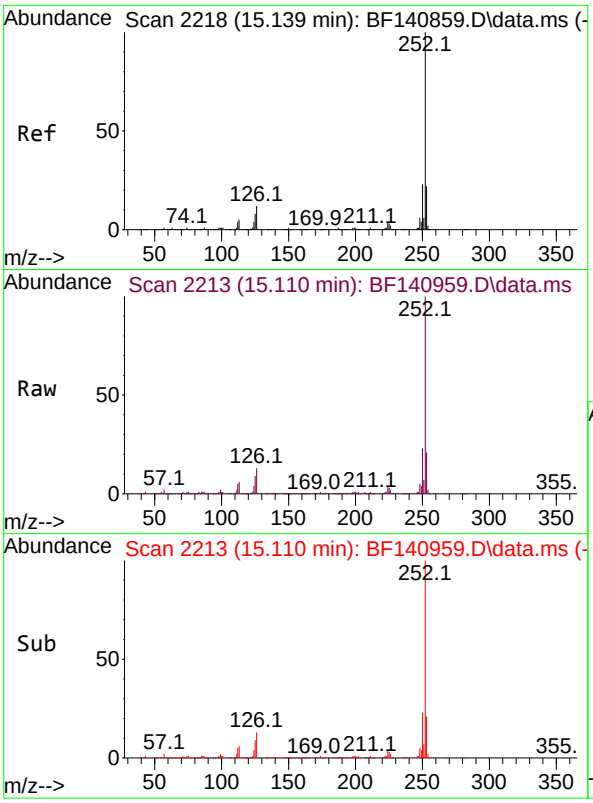


#88
Benzo(b)fluoranthene
Concen: 39.375 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 504436

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	9.1	7.0	10.4

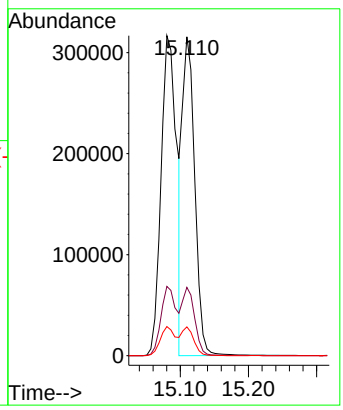




#89
Benzo(k)fluoranthene
Concen: 36.468 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 40075

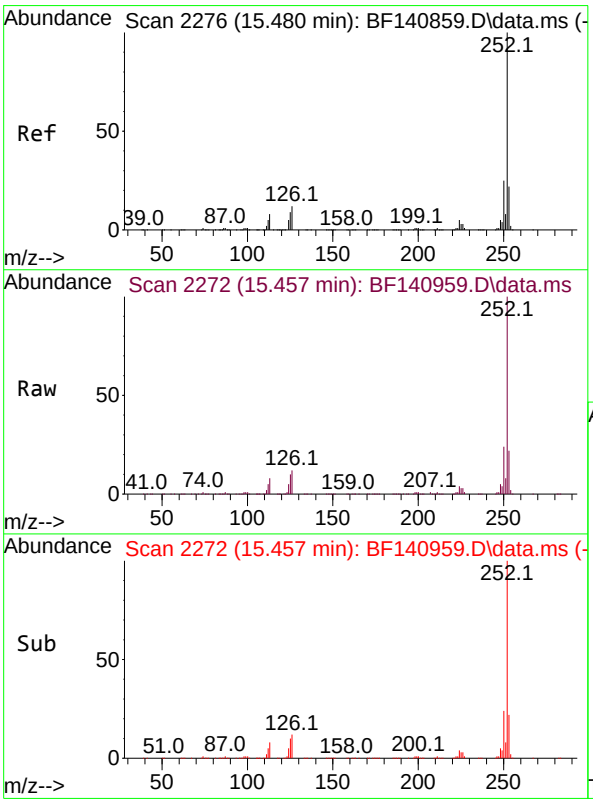
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	9.1	6.8	10.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

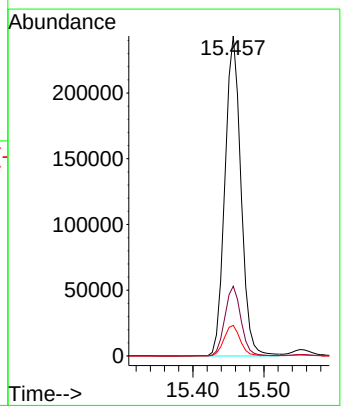
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

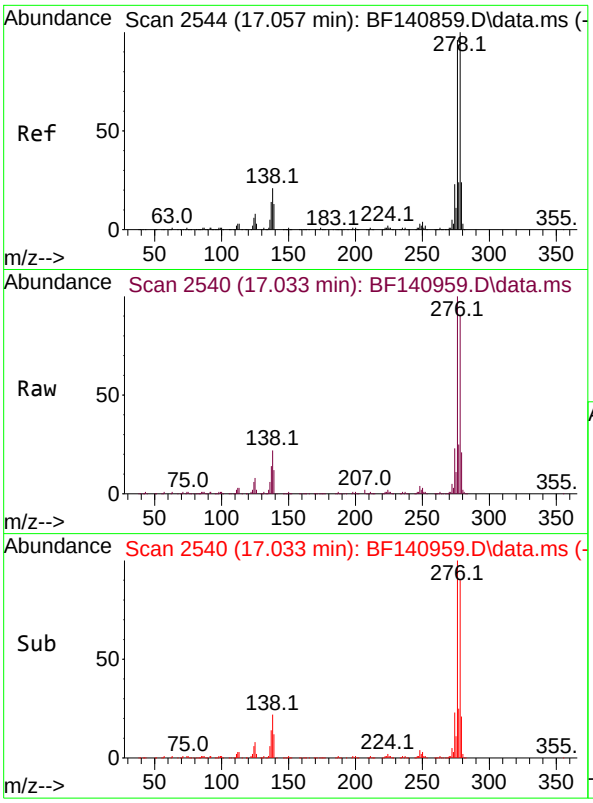


#90
Benzo(a)pyrene
Concen: 37.915 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.023 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 380341

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.6	7.5	11.3

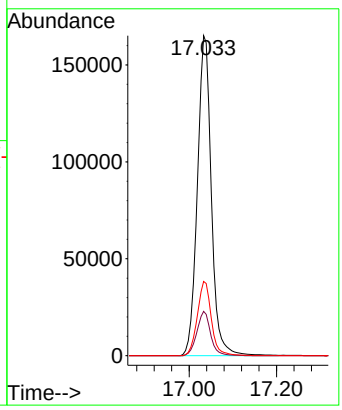




#91
Dibenzo(a,h)anthracene
Concen: 38.537 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

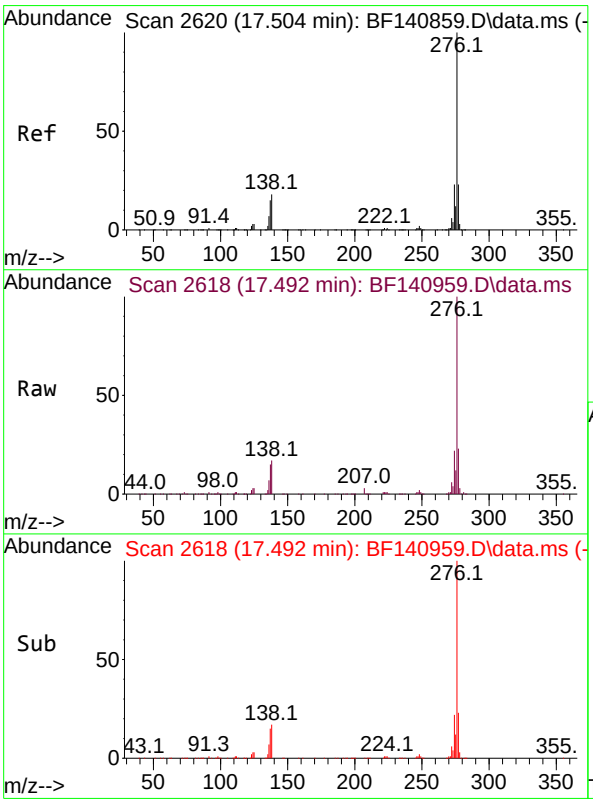
Tgt Ion:278 Resp: 36768

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	23.2	19.2	28.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

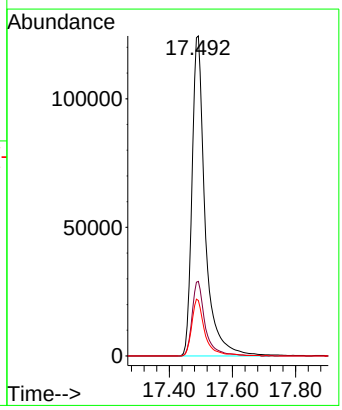
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#92
Benzo(g,h,i)perylene
Concen: 37.152 ng
RT: 17.492 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:276 Resp: 360772

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.7	28.1
138	17.4	14.2	21.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	85	0.00
2		1,4-Dioxane	0.523	0.491	6.1	83	-0.02
3		Pyridine	1.212	1.170	3.5	82	-0.02
4		n-Nitrosodimethylamine	0.611	0.562	8.0	79	-0.01
5	S	2-Fluorophenol	1.215	1.203	1.0	85	0.00
6		Aniline	1.376	1.324	3.8	82	0.00
7	S	Phenol-d6	1.609	1.593	1.0	87	0.00
8		2-Chlorophenol	1.325	1.338	-1.0	88	0.00
9		Benzaldehyde	0.892	0.898	-0.7	89	0.00
10	C	Phenol	1.668	1.653	0.9	86	0.00
11		bis(2-Chloroethyl)ether	1.244	1.188	4.5	83	0.00
12		1,3-Dichlorobenzene	1.510	1.478	2.1	86	0.00
13	C	1,4-Dichlorobenzene	1.532	1.505	1.8	86	0.00
14		1,2-Dichlorobenzene	1.446	1.406	2.8	83	0.00
15		Benzyl Alcohol	1.151	1.129	1.9	84	0.00
16		2,2'-oxybis(1-Chloropropane	1.465	1.318	10.0	78	0.00
17		2-Methylphenol	1.058	1.065	-0.7	87	0.00
18		Hexachloroethane	0.570	0.538	5.6	82	0.00
19	P	n-Nitroso-di-n-propylamine	0.965	0.915	5.2	85	0.00
20		3+4-Methylphenols	1.403	1.384	1.4	87	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	85	0.00
22		Acetophenone	0.500	0.492	1.6	84	0.00
23	S	Nitrobenzene-d5	0.400	0.389	2.8	84	0.00
24		Nitrobenzene	0.410	0.400	2.4	84	0.00
25		Isophorone	0.670	0.630	6.0	82	0.00
26	C	2-Nitrophenol	0.189	0.194	-2.6	88	0.00
27		2,4-Dimethylphenol	0.220	0.220	0.0	85	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.393	6.0	80	0.00
29	C	2,4-Dichlorophenol	0.304	0.302	0.7	86	0.00
30		1,2,4-Trichlorobenzene	0.349	0.340	2.6	84	0.00
31		Naphthalene	1.099	1.086	1.2	86	0.00
32		Benzoic acid	0.209	0.212	-1.4	85	0.02
33		4-Chloroaniline	0.365	0.364	0.3	85	0.00
34	C	Hexachlorobutadiene	0.235	0.225	4.3	82	0.00
35		Caprolactam	0.091	0.098	-7.7	92	0.00
36	C	4-Chloro-3-methylphenol	0.342	0.345	-0.9	86	0.00
37		2-Methylnaphthalene	0.727	0.714	1.8	84	0.00
38		1-Methylnaphthalene	0.719	0.711	1.1	85	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	82	0.00
40		1,2,4,5-Tetrachlorobenzene	0.615	0.604	1.8	85	0.00
41	P	Hexachlorocyclopentadiene	0.153	0.089	41.8#	51	0.00
42	S	2,4,6-Tribromophenol	0.237	0.232	2.1	79	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.353	6.1	79	0.00
44		2,4,5-Trichlorophenol	0.414	0.389	6.0	80	0.00
45	S	2-Fluorobiphenyl	1.455	1.388	4.6	83	0.00
46		1,1'-Biphenyl	1.590	1.544	2.9	83	0.00
47		2-Chloronaphthalene	1.217	1.190	2.2	83	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	0.367	0.362	1.4	82	0.00
49		Acenaphthylene	1.788	1.788	0.0	84	0.00
50		Dimethylphthalate	1.410	1.351	4.2	81	0.00
51		2,6-Dinitrotoluene	0.322	0.320	0.6	84	0.00
52	C	Acenaphthene	1.142	1.133	0.8	83	0.00
53		3-Nitroaniline	0.320	0.332	-3.8	86	0.00
54	P	2,4-Dinitrophenol	0.132	0.158	-19.7	96	0.01
55		Dibenzofuran	1.770	1.710	3.4	81	0.00
56	P	4-Nitrophenol	0.150	0.153	-2.0	76	0.02
57		2,4-Dinitrotoluene	0.424	0.429	-1.2	83	0.00
58		Fluorene	1.460	1.425	2.4	80	0.00
59		2,3,4,6-Tetrachlorophenol	0.337	0.317	5.9	73	0.00
60		Diethylphthalate	1.462	1.353	7.5	77	0.00
61		4-Chlorophenyl-phenylether	0.733	0.696	5.0	79	0.00
62		4-Nitroaniline	0.334	0.356	-6.6	86	0.00
63		Azobenzene	1.375	1.261	8.3	75	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
65		4,6-Dinitro-2-methylphenol	0.113	0.116	-2.7	80	0.01
66	c	n-Nitrosodiphenylamine	0.615	0.605	1.6	82	0.00
67		4-Bromophenyl-phenylether	0.224	0.214	4.5	78	0.00
68		Hexachlorobenzene	0.254	0.247	2.8	81	0.00
69		Atrazine	0.172	0.145	15.7	70	0.00
70	C	Pentachlorophenol	0.093	0.075	19.4	62	0.01
71		Phenanthrene	1.028	1.020	0.8	84	0.00
72		Anthracene	1.013	0.994	1.9	83	0.00
73		Carbazole	0.992	1.002	-1.0	85	0.00
74		Di-n-butylphthalate	1.164	1.108	4.8	79	0.00
75	C	Fluoranthene	1.184	1.218	-2.9	87	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	86	0.00
77		Benzidine	0.408	0.445	-9.1	95	0.00
78		Pyrene	1.779	1.725	3.0	87	0.00
79	S	Terphenyl-d14	1.268	1.207	4.8	86	0.00
80		Butylbenzylphthalate	0.654	0.643	1.7	86	0.00
81		Benzo(a)anthracene	1.417	1.404	0.9	89	0.00
82		3,3'-Dichlorobenzidine	0.428	0.434	-1.4	91	0.00
83		Chrysene	1.289	1.227	4.8	83	0.00
84		Bis(2-ethylhexyl)phthalate	0.844	0.790	6.4	83	-0.01
85	c	Di-n-octyl phthalate	1.277	1.059	17.1	75	-0.03
86	I	Perylene-d12	1.000	1.000	0.0	91	-0.03
87		Indeno(1,2,3-cd)pyrene	1.248	1.208	3.2	87	-0.02
88		Benzo(b)fluoranthene	1.388	1.367	1.5	96	-0.03
89		Benzo(k)fluoranthene	1.191	1.086	8.8	81	-0.03
90	C	Benzo(a)pyrene	1.087	1.030	5.2	87	-0.02
91		Dibenzo(a,h)anthracene	1.034	0.996	3.7	86	-0.02
92		Benzo(g,h,i)perylene	1.052	0.977	7.1	83	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	85	0.00
2		1,4-Dioxane	40.000	37.529	6.2	83	-0.02
3		Pyridine	40.000	38.605	3.5	82	-0.02
4		n-Nitrosodimethylamine	40.000	36.798	8.0	79	-0.01
5	S	2-Fluorophenol	80.000	79.188	1.0	85	0.00
6		Aniline	40.000	38.501	3.7	82	0.00
7	S	Phenol-d6	80.000	79.195	1.0	87	0.00
8		2-Chlorophenol	40.000	40.383	-1.0	88	0.00
9		Benzaldehyde	40.000	40.271	-0.7	89	0.00
10	C	Phenol	40.000	39.635	0.9	86	0.00
11		bis(2-Chloroethyl)ether	40.000	38.200	4.5	83	0.00
12		1,3-Dichlorobenzene	40.000	39.166	2.1	86	0.00
13	C	1,4-Dichlorobenzene	40.000	39.295	1.8	86	0.00
14		1,2-Dichlorobenzene	40.000	38.884	2.8	83	0.00
15		Benzyl Alcohol	40.000	39.242	1.9	84	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.973	10.1	78	0.00
17		2-Methylphenol	40.000	40.286	-0.7	87	0.00
18		Hexachloroethane	40.000	37.728	5.7	82	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.915	5.2	85	0.00
20		3+4-Methylphenols	40.000	39.472	1.3	87	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	85	0.00
22		Acetophenone	40.000	39.304	1.7	84	0.00
23	S	Nitrobenzene-d5	80.000	77.801	2.7	84	0.00
24		Nitrobenzene	40.000	39.061	2.3	84	0.00
25		Isophorone	40.000	37.629	5.9	82	0.00
26	C	2-Nitrophenol	40.000	41.138	-2.8	88	0.00
27		2,4-Dimethylphenol	40.000	40.022	-0.1	85	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.572	6.1	80	0.00
29	C	2,4-Dichlorophenol	40.000	39.755	0.6	86	0.00
30		1,2,4-Trichlorobenzene	40.000	39.012	2.5	84	0.00
31		Naphthalene	40.000	39.547	1.1	86	0.00
32		Benzoic acid	40.000	40.523	-1.3	85	0.02
33		4-Chloroaniline	40.000	39.864	0.3	85	0.00
34	C	Hexachlorobutadiene	40.000	38.453	3.9	82	0.00
35		Caprolactam	40.000	43.322	-8.3	92	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.286	-0.7	86	0.00
37		2-Methylnaphthalene	40.000	39.272	1.8	84	0.00
38		1-Methylnaphthalene	40.000	39.588	1.0	85	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	82	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.312	1.7	85	0.00
41	P	Hexachlorocyclopentadiene	40.000	28.674	28.3#	51	0.00
42	S	2,4,6-Tribromophenol	80.000	78.522	1.8	79	0.00
43	C	2,4,6-Trichlorophenol	40.000	37.469	6.3	79	0.00
44		2,4,5-Trichlorophenol	40.000	37.641	5.9	80	0.00
45	S	2-Fluorobiphenyl	80.000	76.352	4.6	83	0.00
46		1,1'-Biphenyl	40.000	38.834	2.9	83	0.00
47		2-Chloronaphthalene	40.000	39.139	2.2	83	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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	39.384	1.5	82	0.00
49		Acenaphthylene	40.000	40.003	-0.0	84	0.00
50		Dimethylphthalate	40.000	38.322	4.2	81	0.00
51		2,6-Dinitrotoluene	40.000	39.767	0.6	84	0.00
52	C	Acenaphthene	40.000	39.664	0.8	83	0.00
53		3-Nitroaniline	40.000	41.485	-3.7	86	0.00
54	P	2,4-Dinitrophenol	40.000	43.346	-8.4	96	0.01
55		Dibenzofuran	40.000	38.647	3.4	81	0.00
56	P	4-Nitrophenol	40.000	37.930	5.2	76	0.02
57		2,4-Dinitrotoluene	40.000	40.439	-1.1	83	0.00
58		Fluorene	40.000	39.048	2.4	80	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	37.667	5.8	73	0.00
60		Diethylphthalate	40.000	37.002	7.5	77	0.00
61		4-Chlorophenyl-phenylether	40.000	37.979	5.1	79	0.00
62		4-Nitroaniline	40.000	42.614	-6.5	86	0.00
63		Azobenzene	40.000	36.682	8.3	75	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	81	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.900	-2.2	80	0.01
66	c	n-Nitrosodiphenylamine	40.000	39.380	1.5	82	0.00
67		4-Bromophenyl-phenylether	40.000	38.203	4.5	78	0.00
68		Hexachlorobenzene	40.000	38.882	2.8	81	0.00
69		Atrazine	40.000	33.792	15.5	70	0.00
70	C	Pentachlorophenol	40.000	32.340	19.1	62	0.01
71		Phenanthrene	40.000	39.689	0.8	84	0.00
72		Anthracene	40.000	39.262	1.8	83	0.00
73		Carbazole	40.000	40.420	-1.1	85	0.00
74		Di-n-butylphthalate	40.000	38.065	4.8	79	0.00
75	C	Fluoranthene	40.000	41.145	-2.9	87	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	86	0.00
77		Benzidine	40.000	43.643	-9.1	95	0.00
78		Pyrene	40.000	38.803	3.0	87	0.00
79	S	Terphenyl-d14	80.000	76.158	4.8	86	0.00
80		Butylbenzylphthalate	40.000	39.317	1.7	86	0.00
81		Benzo(a)anthracene	40.000	39.621	0.9	89	0.00
82		3,3'-Dichlorobenzidine	40.000	40.550	-1.4	91	0.00
83		Chrysene	40.000	38.074	4.8	83	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	37.465	6.3	83	-0.01
85	c	Di-n-octyl phthalate	40.000	33.196	17.0	75	-0.03
86	I	Perylene-d12	20.000	20.000	0.0	91	-0.03
87		Indeno(1,2,3-cd)pyrene	40.000	38.707	3.2	87	-0.02
88		Benzo(b)fluoranthene	40.000	39.375	1.6	96	-0.03
89		Benzo(k)fluoranthene	40.000	36.468	8.8	81	-0.03
90	C	Benzo(a)pyrene	40.000	37.915	5.2	87	-0.02
91		Dibenzo(a,h)anthracene	40.000	38.537	3.7	86	-0.02
92		Benzo(g,h,i)perylene	40.000	37.152	7.1	83	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
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

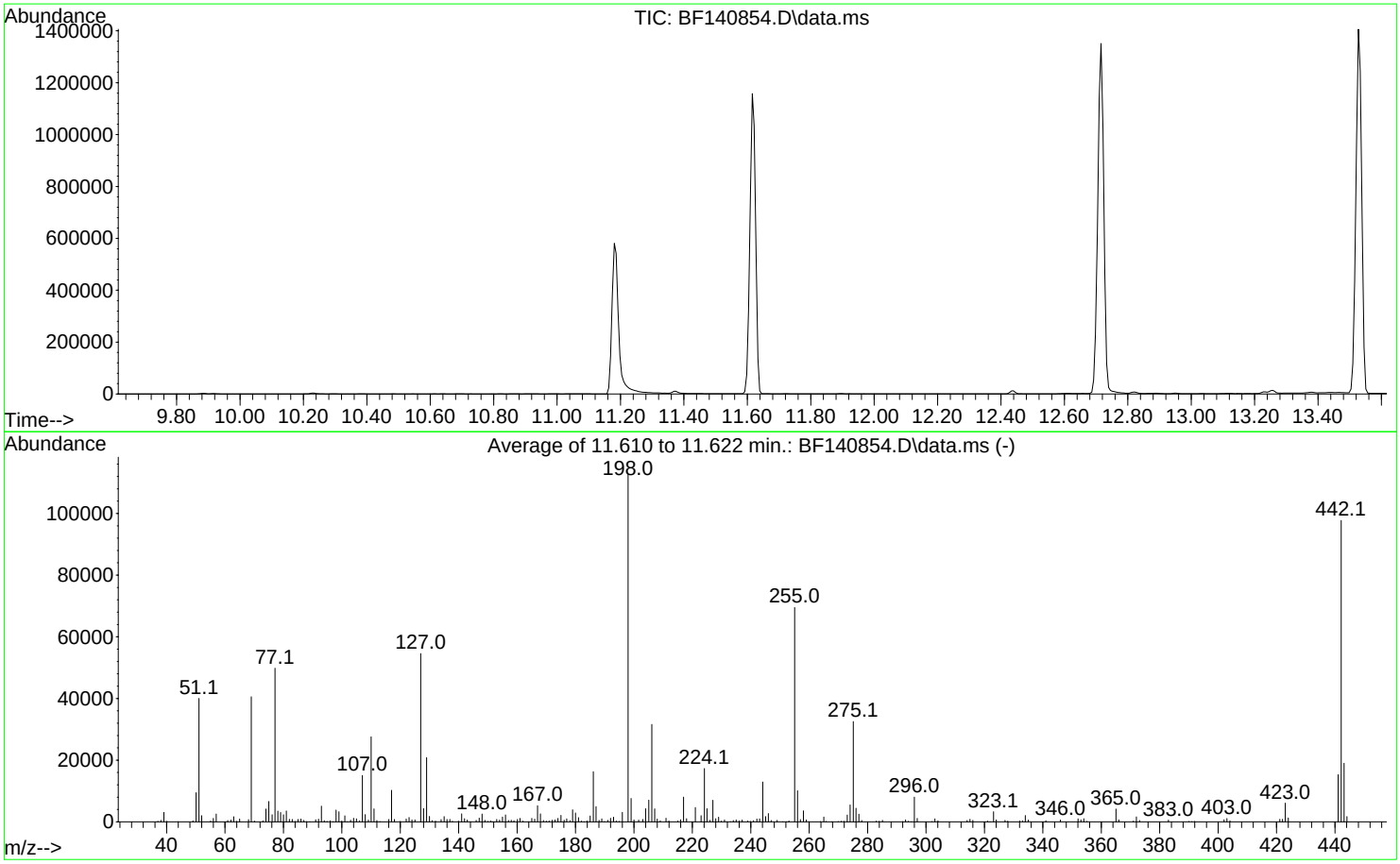
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140854.D
Acq On : 16 Dec 2024 11:21
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-BF121624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Dec 16 16:59:50 2024



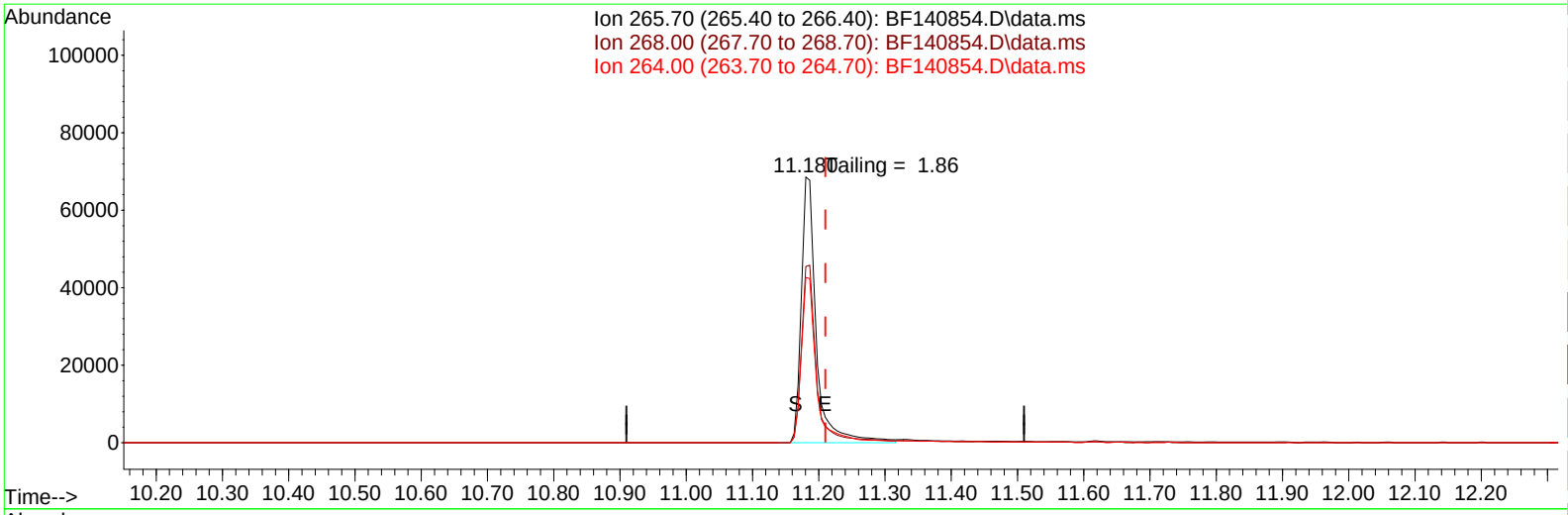
AutoFind: Scans 1618, 1619, 1620; Background Corrected with Scan 1612

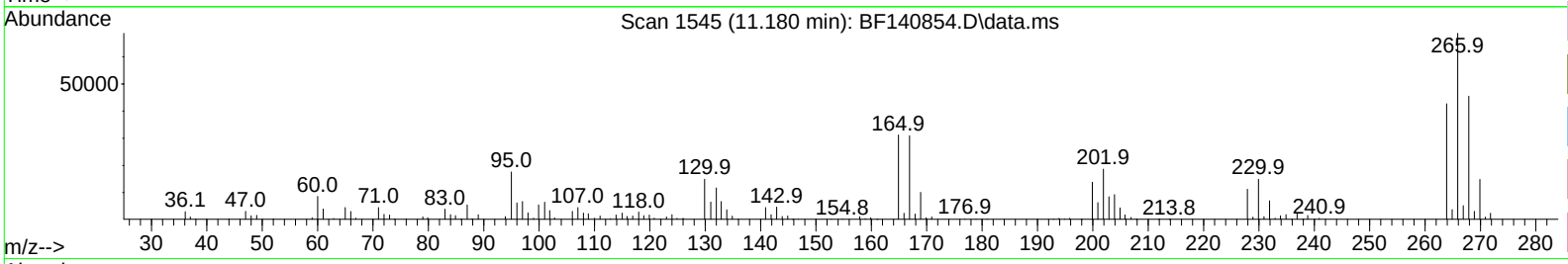
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.6	40051	PASS
68	69	0.00	2	1.9	751	PASS
69	198	0.00	100	36.0	40557	PASS
70	69	0.00	2	0.6	252	PASS
127	198	10	80	48.5	54581	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	112637	PASS
199	198	5	9	6.7	7601	PASS
275	198	10	60	28.9	32549	PASS
365	198	1	100	3.7	4169	PASS
441	198	0.01	100	13.6	15301	PASS
442	442	50	100	100.0	97731	PASS
443	442	15	24	19.4	18998	PASS

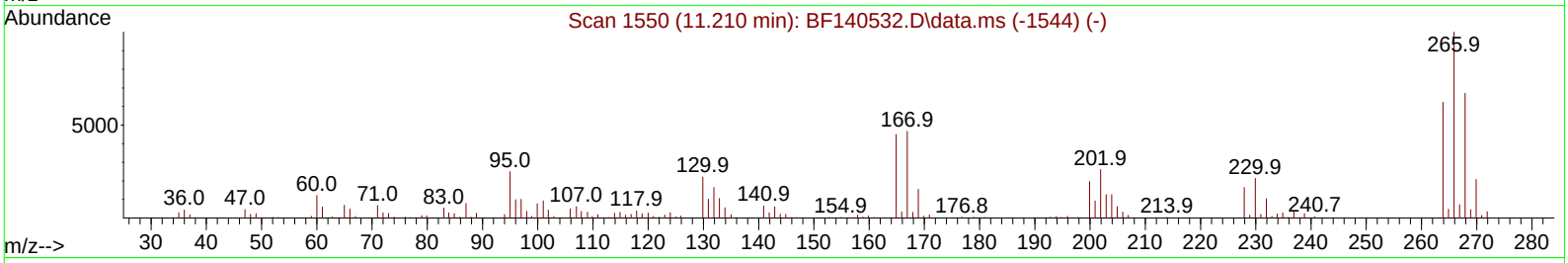
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140854.D
Acq On : 16 Dec 2024 11:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 16 12:02:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140854.D\data.ms

(70) Pentachlorophenol (C)

11.180min (-0.030) 3894.75 ng m

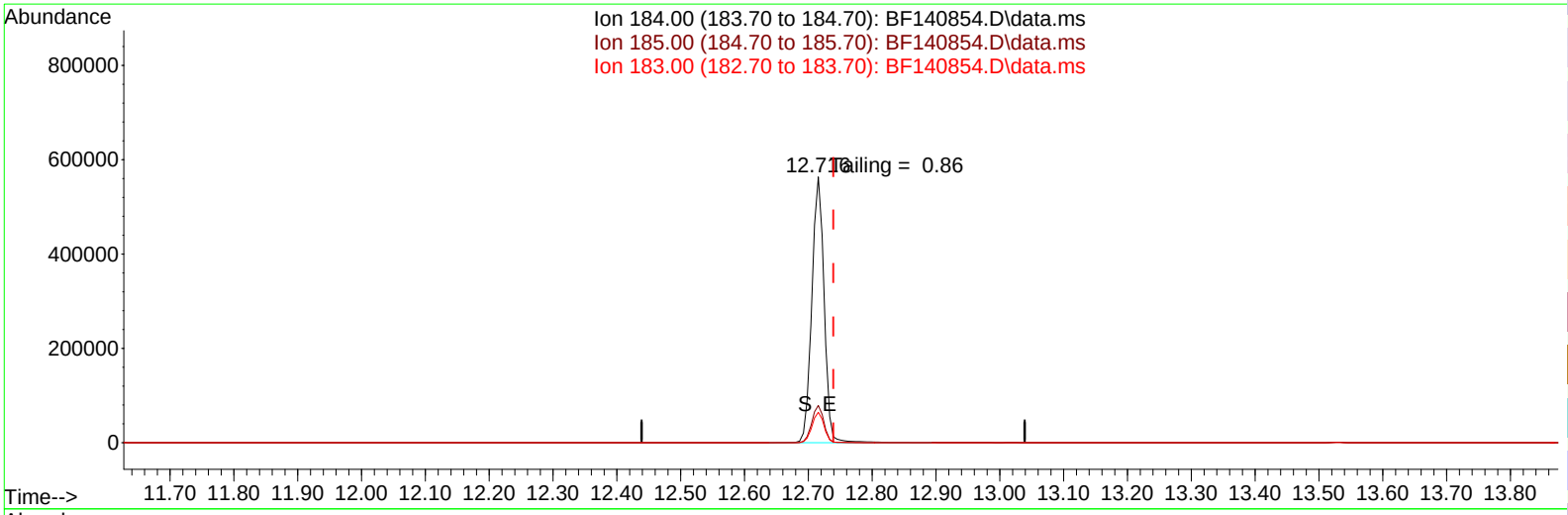
response 108541

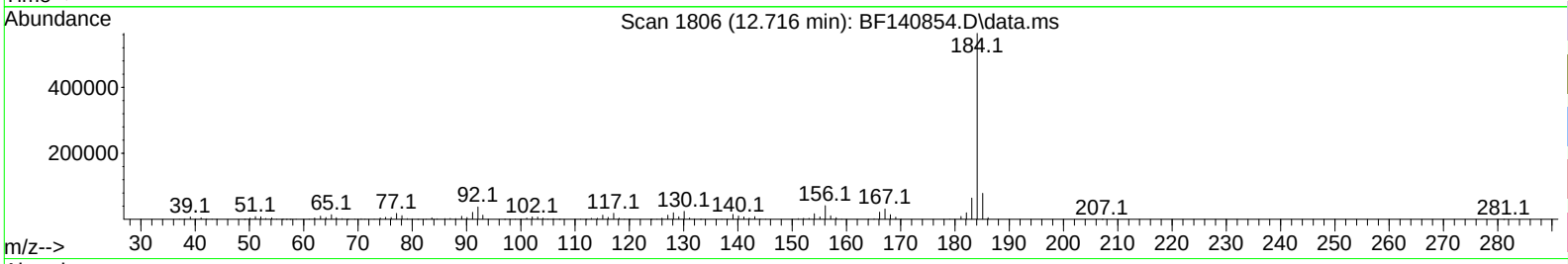
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.10	66.31
264.00	62.30	62.20
0.00	0.00	0.00

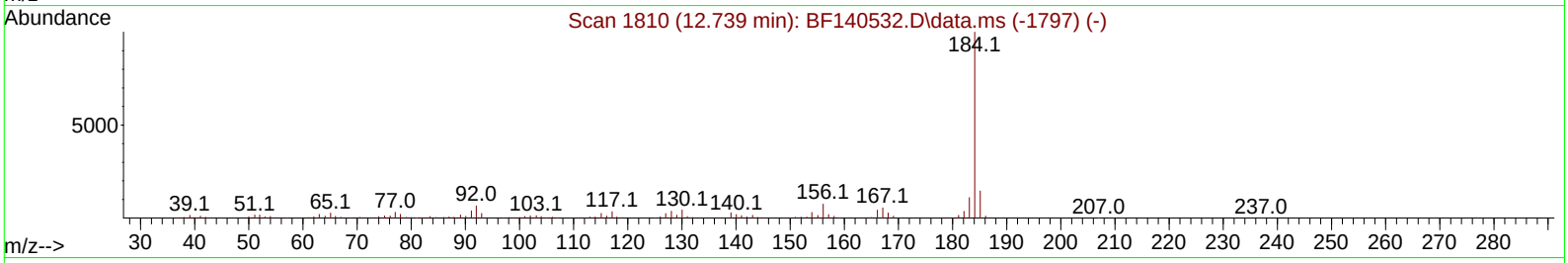
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140854.D
Acq On : 16 Dec 2024 11:21
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 16 12:02:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration







TIC: BF140854.D\data.ms

(77) Benzidine

12.716min (-0.023) 4792.75 ng

response 759160

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.01
183.00	11.00	11.44
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

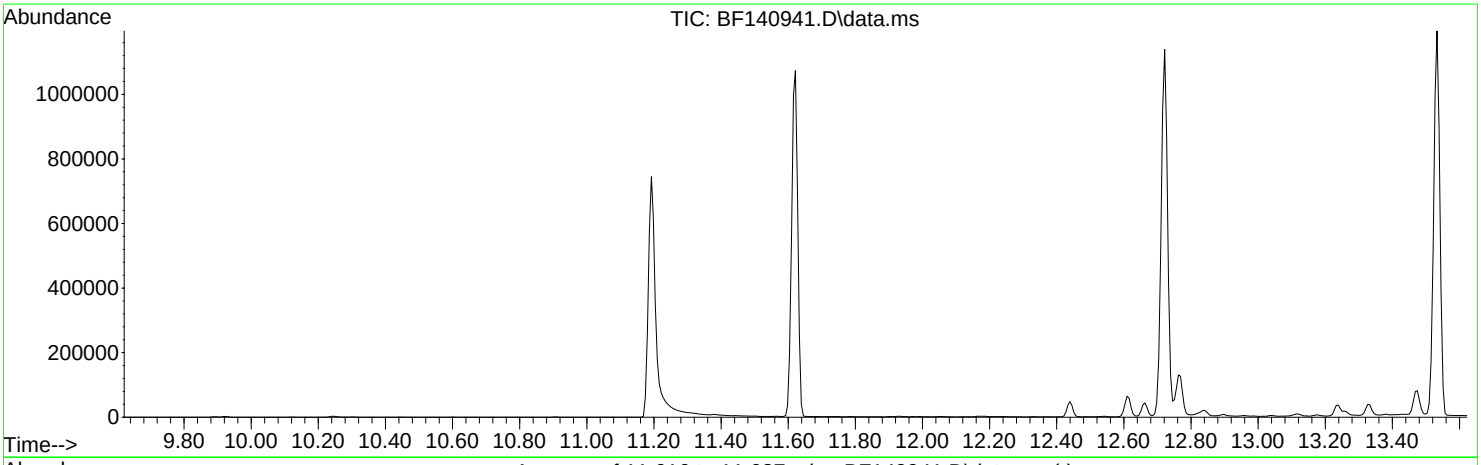
Date	Instrument Name	DFTPP Data File
12/16/2024	BNA_F	BF140854.D
Compound Name	**Response**	**Retention Time**
DDT	360303	13.527
DDD	6357	13.257
DDE	1383	12.892
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7740	368043	2.10

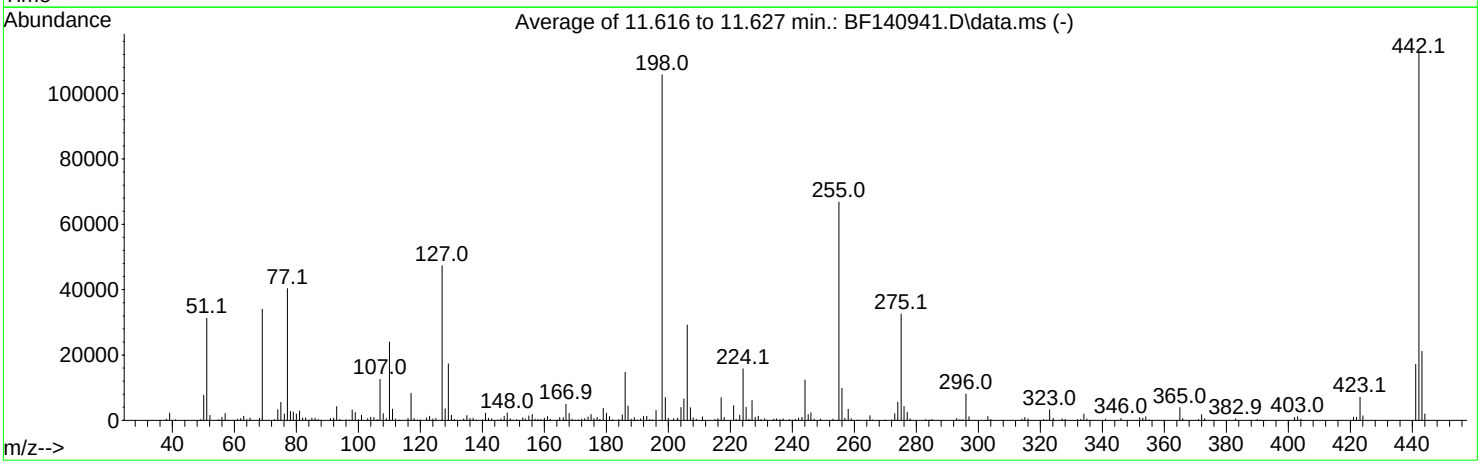
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140941.D
Acq On : 20 Dec 2024 09:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Dec 16 16:59:50 2024





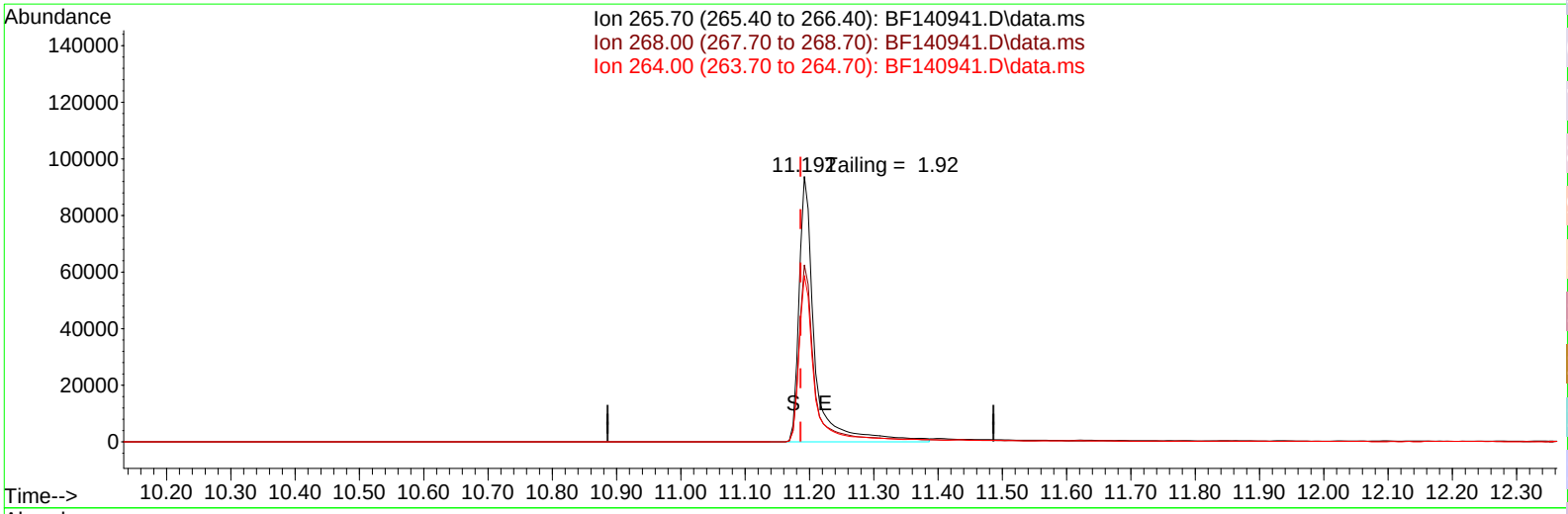
AutoFind: Scans 1619, 1620, 1621; Background Corrected with Scan 1612

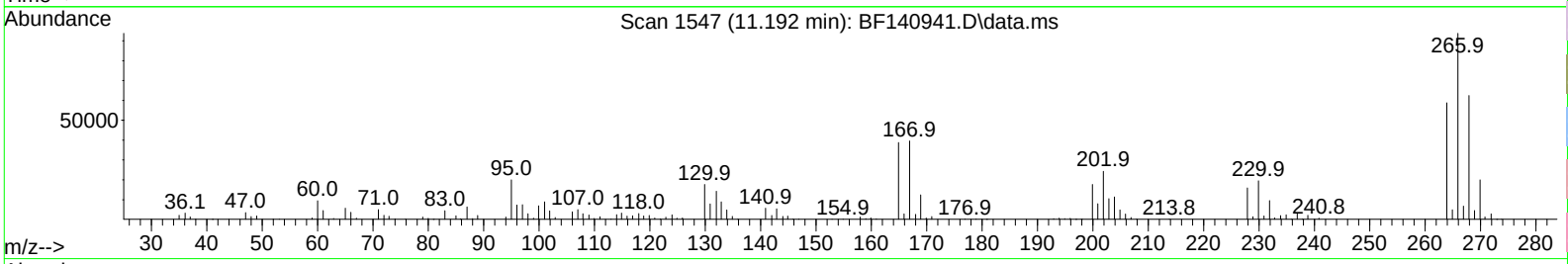
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	29.6	31259	PASS
68	69	0.00	2	1.9	646	PASS
69	198	0.00	100	32.2	34051	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	44.8	47344	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	105763	PASS
199	198	5	9	6.6	7029	PASS
275	198	10	60	30.8	32541	PASS
365	198	1	100	3.7	3936	PASS
441	198	0.01	100	16.2	17150	PASS
442	442	50	100	100.0	112581	PASS
443	442	15	24	18.7	21093	PASS

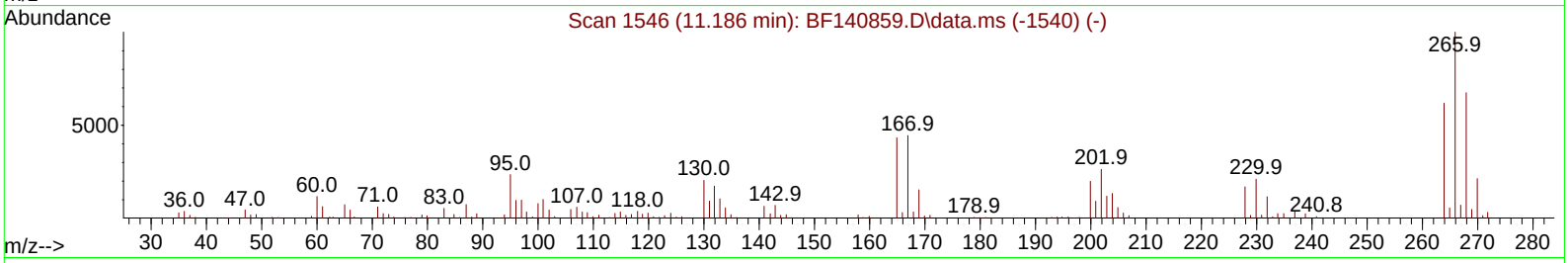
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140941.D
Acq On : 20 Dec 2024 09:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 20 11:56:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration







TIC: BF140941.D\data.ms

(70) Pentachlorophenol (C)

11.192min (+ 0.006) 18269.88 ng

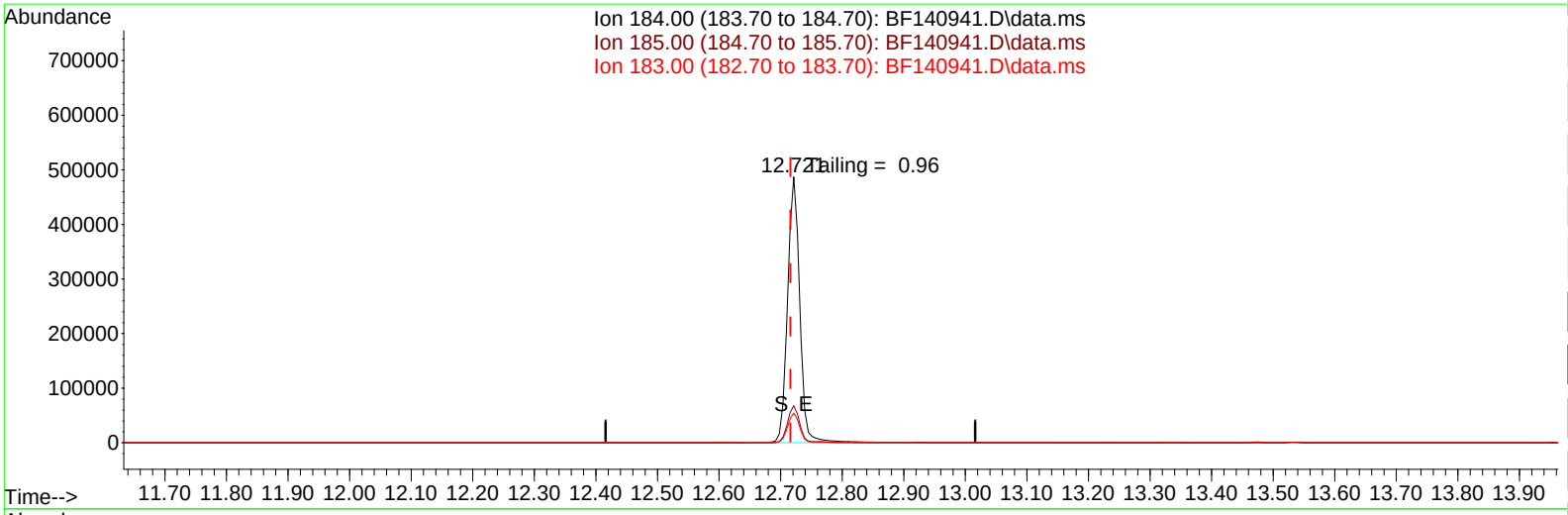
response 157756

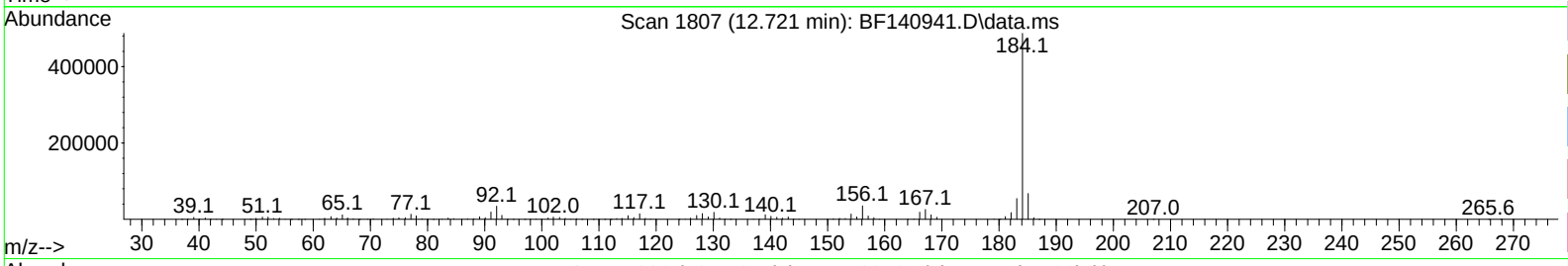
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.50	66.64
264.00	61.80	62.70
0.00	0.00	0.00

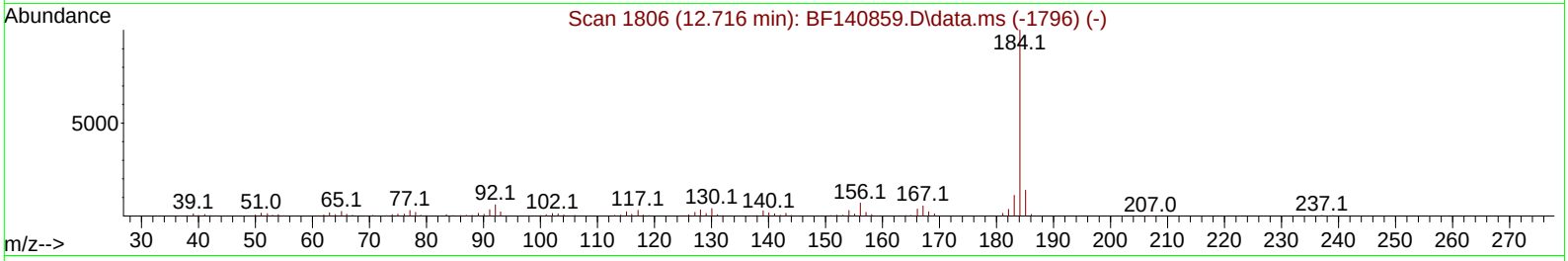
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140941.D
Acq On : 20 Dec 2024 09:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Dec 20 11:56:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration







TIC: BF140941.D\data.ms

(77) Benzidine

12.721min (+ 0.005) 28215.57 ng

response 676070

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	13.90	13.93
183.00	11.20	11.19
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/20/2024	BNA_F	BF1408941.D
Compound Name	**Response**	**Retention Time**
DDT	616229	13.533
DDD	15993	13.239
DDE	2518	12.898
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18511	634740	2.92

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB165705BL			SDG No.:	P5306
Lab Sample ID:	PB165705BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BF140943.D	1	12/18/24 08:56	12/20/24 11:41	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.13	U	0.083	0.13	0.17	mg/Kg
91-57-6	2-Methylnaphthalene	0.13	U	0.082	0.13	0.17	mg/Kg
208-96-8	Acenaphthylene	0.13	U	0.086	0.13	0.17	mg/Kg
83-32-9	Acenaphthene	0.13	U	0.081	0.13	0.17	mg/Kg
86-73-7	Fluorene	0.13	U	0.085	0.13	0.17	mg/Kg
85-01-8	Phenanthrene	0.13	U	0.084	0.13	0.17	mg/Kg
120-12-7	Anthracene	0.13	U	0.084	0.13	0.17	mg/Kg
206-44-0	Fluoranthene	0.13	U	0.082	0.13	0.17	mg/Kg
129-00-0	Pyrene	0.13	U	0.083	0.13	0.17	mg/Kg
56-55-3	Benzo(a)anthracene	0.13	U	0.081	0.13	0.17	mg/Kg
218-01-9	Chrysene	0.13	U	0.079	0.13	0.17	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.13	U	0.081	0.13	0.17	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.13	U	0.083	0.13	0.17	mg/Kg
50-32-8	Benzo(a)pyrene	0.13	U	0.093	0.13	0.17	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.13	U	0.078	0.13	0.17	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.13	U	0.081	0.13	0.17	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.13	U	0.080	0.13	0.17	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	107		37 - 122		107%	SPK: 100
321-60-8	2-Fluorobiphenyl	103		44 - 115		103%	SPK: 100
1718-51-0	Terphenyl-d14	110		54 - 127		110%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	64900	6.845				
1146-65-2	Naphthalene-d8	229000	8.128				
15067-26-2	Acenaphthene-d10	137000	9.886				
1517-22-2	Phenanthrene-d10	270000	11.375				
1719-03-5	Chrysene-d12	175000	14.027				
1520-96-3	Perylene-d12	118000	15.521				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB165705BL			SDG No.:	P5306
Lab Sample ID:	PB165705BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BF140943.D	1	12/18/24 08:56	12/20/24 11:41	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000994-05-8	Butane, 2-methoxy-2-methyl-	180	J			2.23	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\BF122024\
Data File : BF140943.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : PB165705BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Quant Time: Dec 20 12:01:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

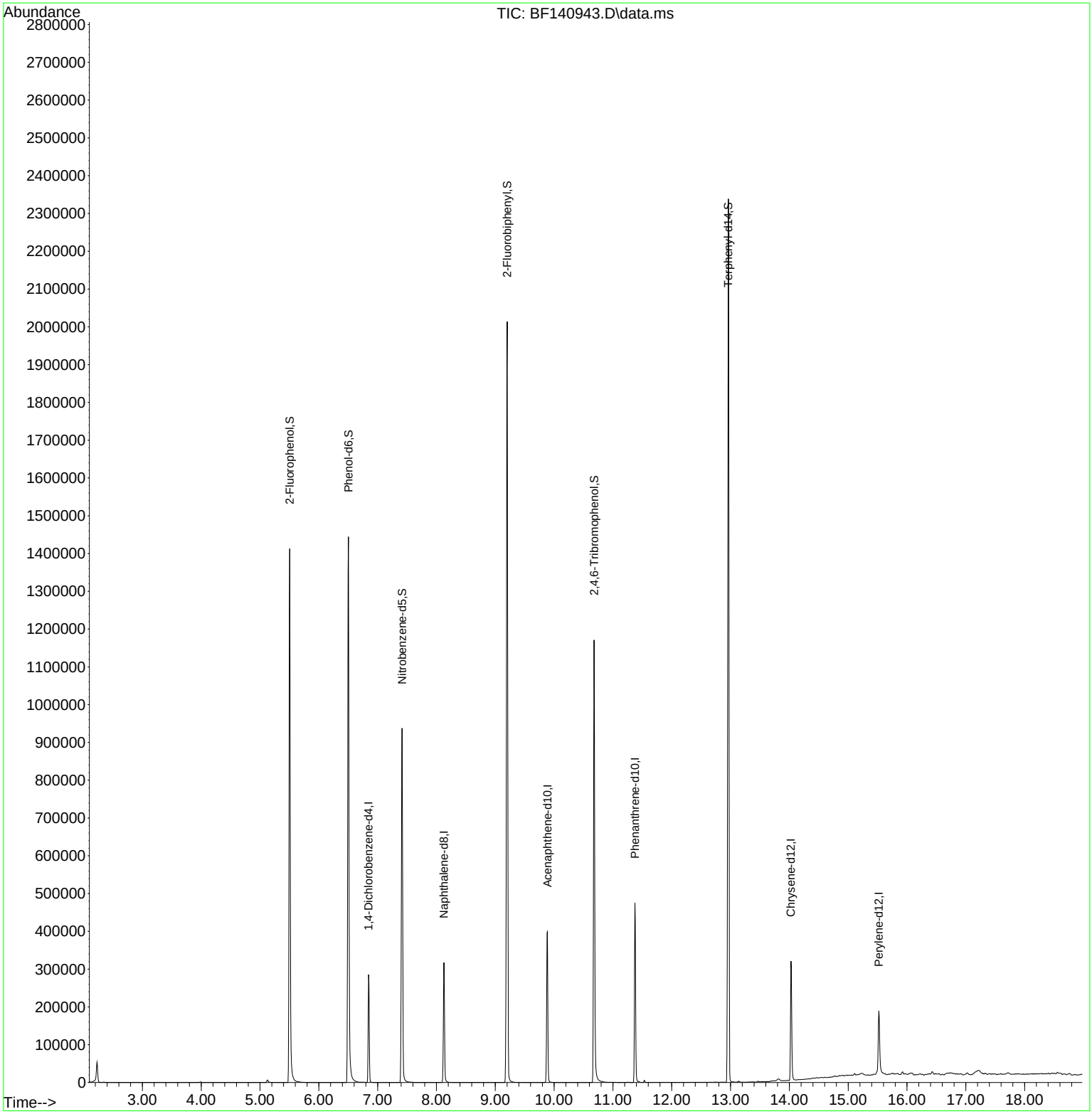
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	64872	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	228592	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	136709	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	270487	20.000	ng	0.00
76) Chrysene-d12	14.027	240	174504	20.000	ng	0.00
86) Perylene-d12	15.521	264	118300	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	590265	149.785	ng	0.02
7) Phenol-d6	6.504	99	799531	153.180	ng	0.00
23) Nitrobenzene-d5	7.416	82	487007	106.589	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	235540	145.676	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	1024156	102.997	ng	0.00
79) Terphenyl-d14	12.963	244	1215200	109.809	ng	0.00
Target Compounds						Qvalue

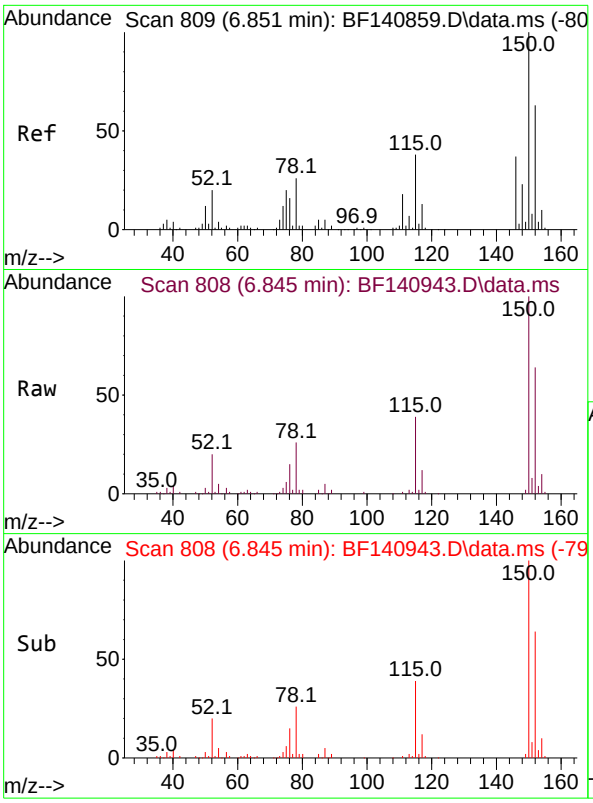
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140943.D
Acq On : 20 Dec 2024 11:41
Operator : RC/JU
Sample : PB165705BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Quant Time: Dec 20 12:01:09 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



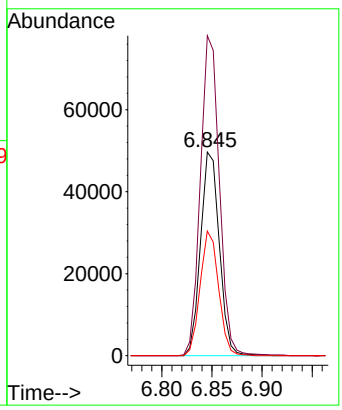


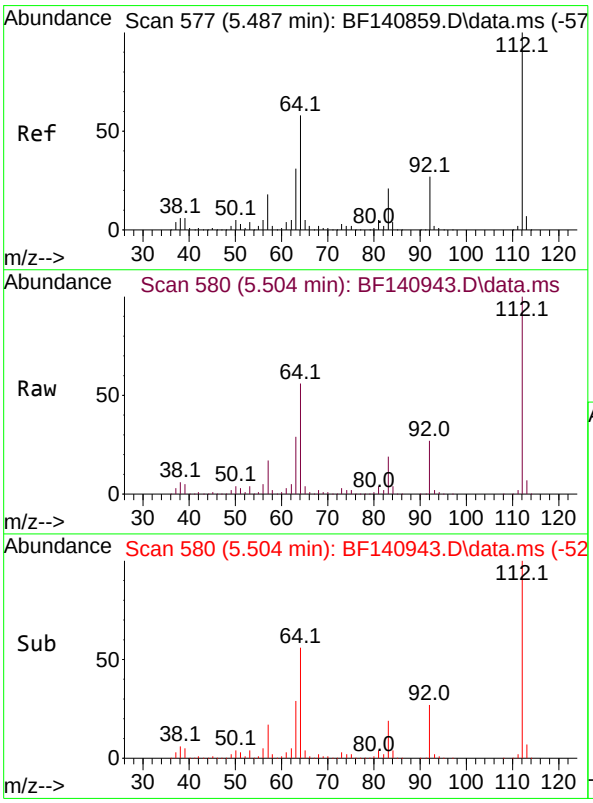
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Tgt Ion:152 Resp: 64872

Ion	Ratio	Lower	Upper
152	100		
150	157.1	127.9	191.9
115	61.2	48.0	72.0

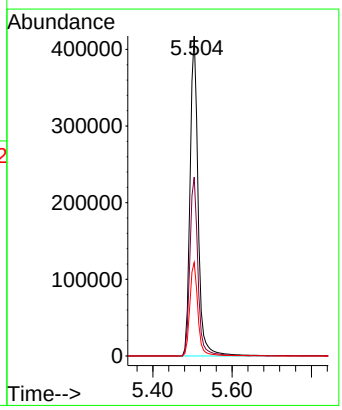


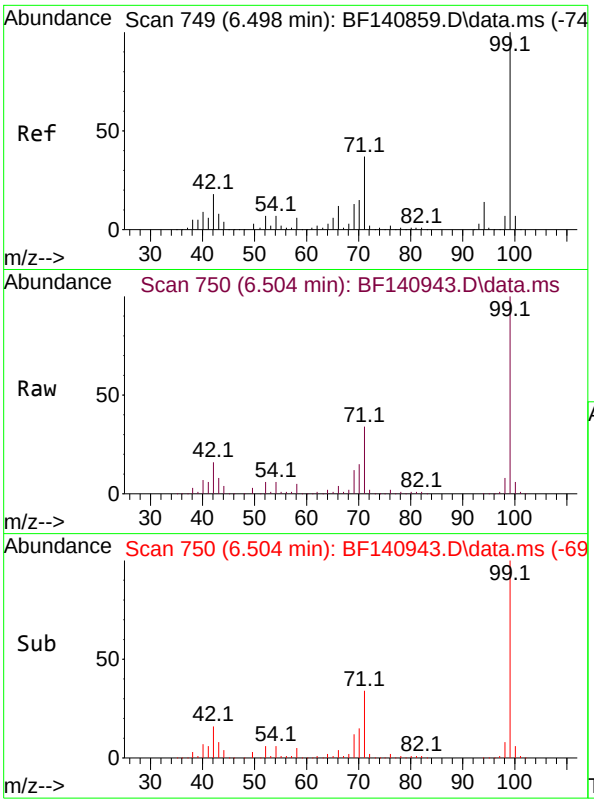


#5
2-Fluorophenol
Concen: 149.785 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.018 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Tgt Ion:112 Resp: 590265

Ion	Ratio	Lower	Upper
112	100		
64	55.9	46.1	69.1
63	29.2	24.9	37.3



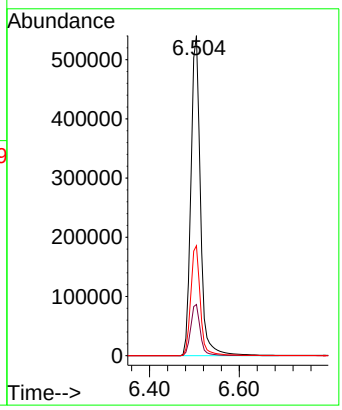


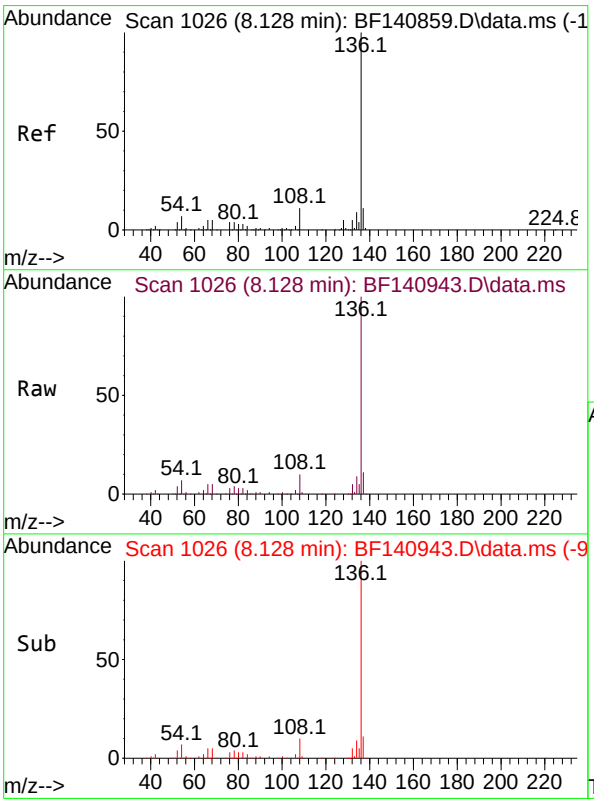
#7
Phenol-d6
Concen: 153.180 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Tgt Ion: 99 Resp: 799531

Ion	Ratio	Lower	Upper
99	100		
42	16.0	14.3	21.5
71	34.4	29.9	44.9

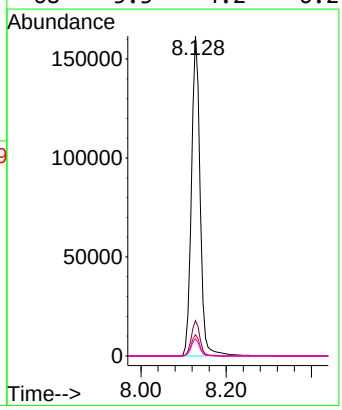


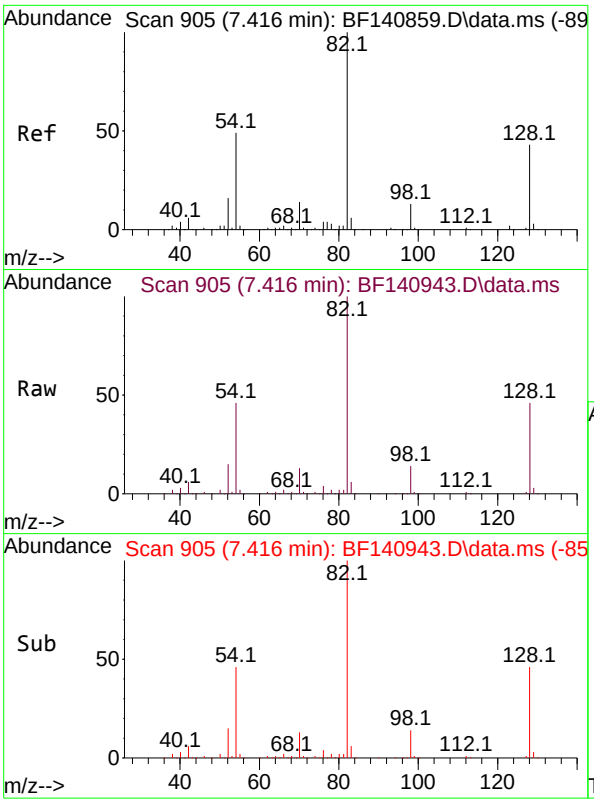


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Tgt Ion:136 Resp: 228592

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	6.6	5.6	8.4
68	5.3	4.2	6.2



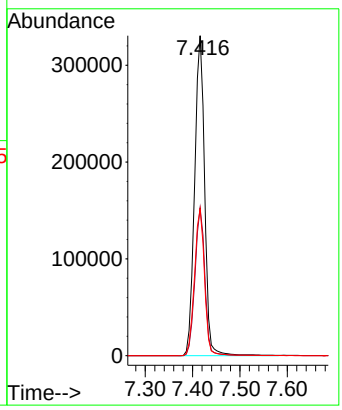


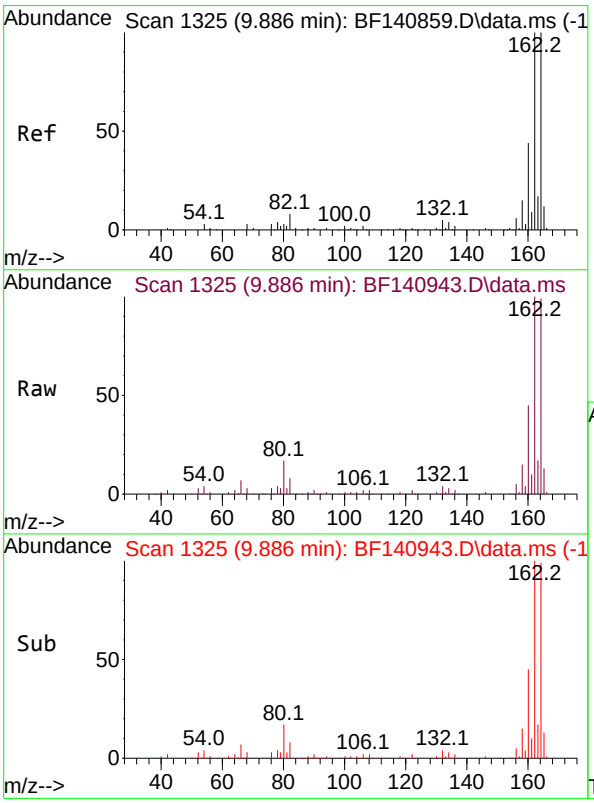
#23
Nitrobenzene-d5
Concen: 106.589 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Tgt Ion: 82 Resp: 487007

Ion	Ratio	Lower	Upper
82	100		
128	46.2	34.4	51.6
54	45.9	38.8	58.2

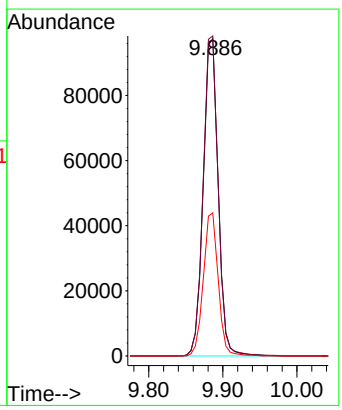


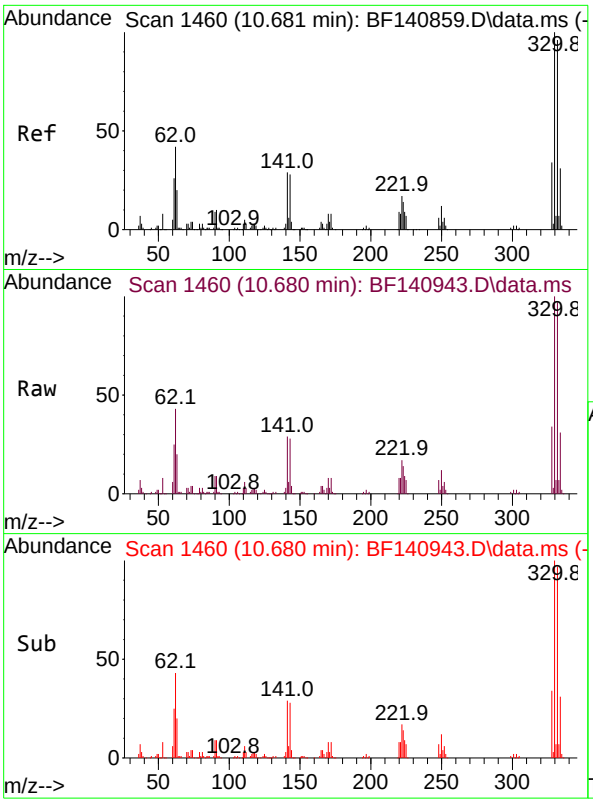


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.000 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Tgt Ion:164 Resp: 136709

Ion	Ratio	Lower	Upper
164	100		
162	100.9	79.9	119.9
160	45.1	35.2	52.8



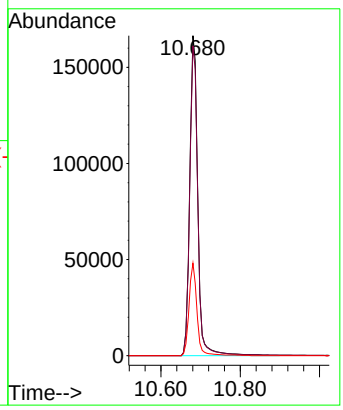


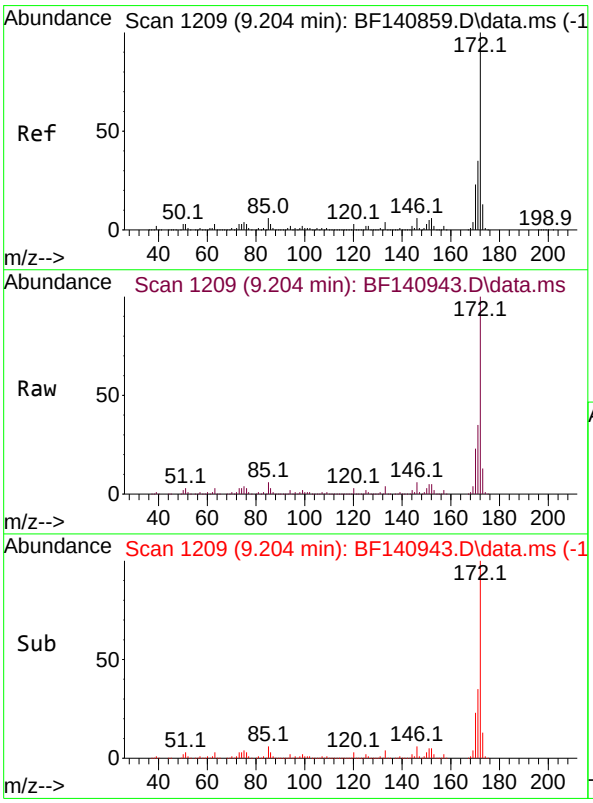
#42
2,4,6-Tribromophenol
Concen: 145.676 ng
RT: 10.680 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Tgt Ion:330 Resp: 235540

Ion	Ratio	Lower	Upper
330	100		
332	97.2	76.2	114.4
141	28.3	24.9	37.3

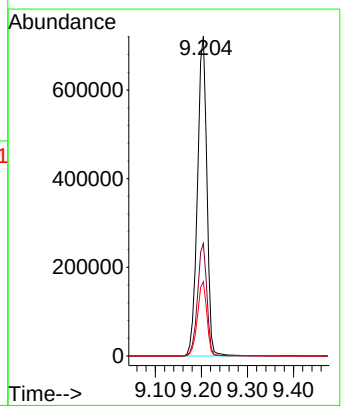


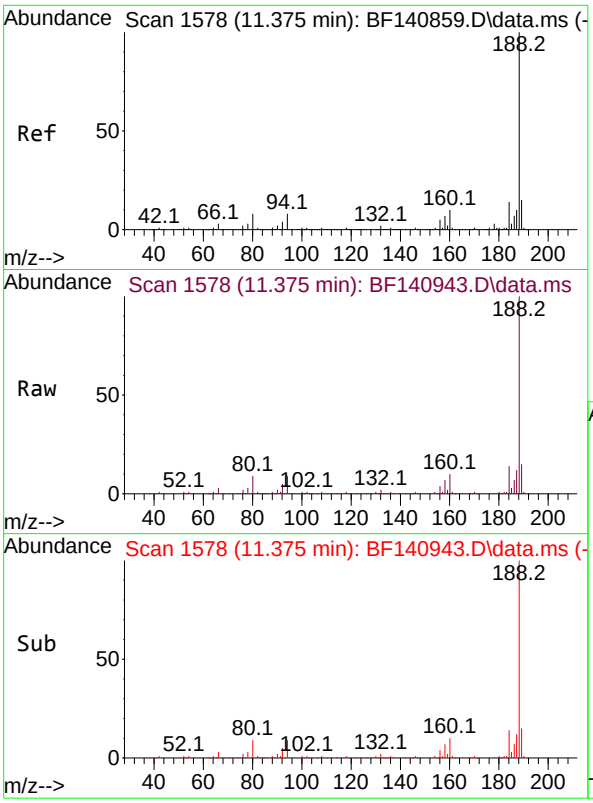


#45
2-Fluorobiphenyl
Concen: 102.997 ng
RT: 9.204 min Scan# 1209
Delta R.T. -0.000 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Tgt Ion:172 Resp: 1024156

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.4	42.6
170	23.2	18.6	28.0



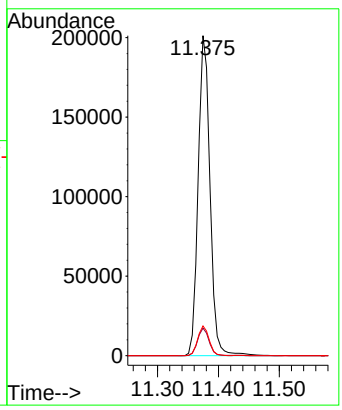


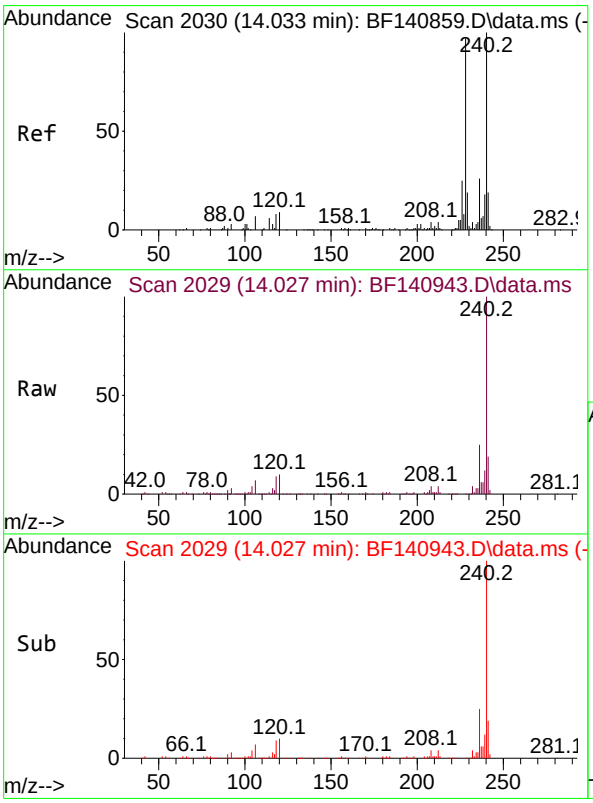
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Tgt Ion:188 Resp: 270487

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.4	9.6
80	9.3	6.8	10.2

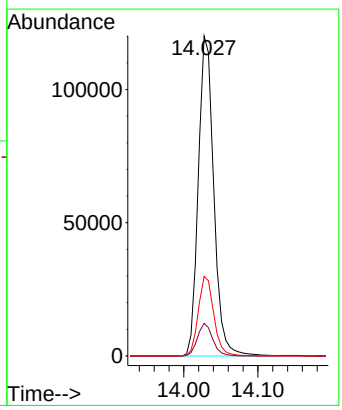


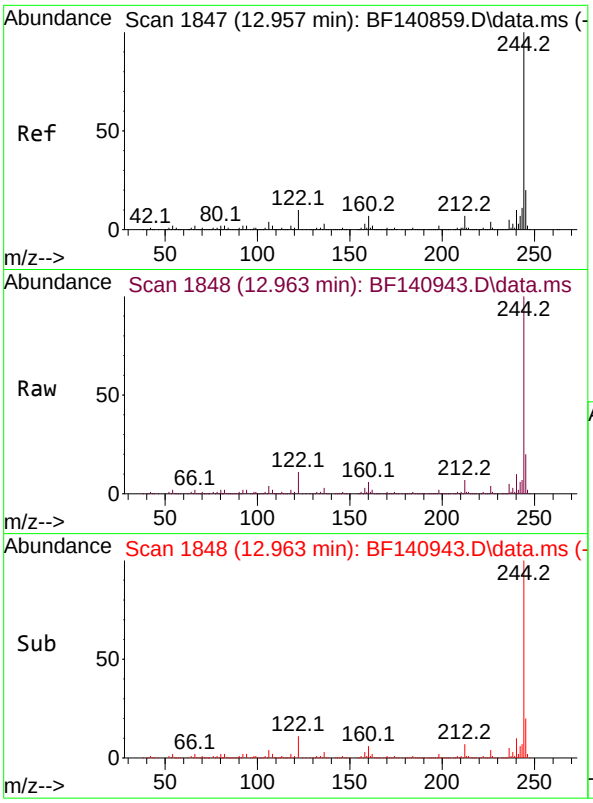


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Tgt Ion:240 Resp: 174504

Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.6	11.4
236	24.9	20.5	30.7



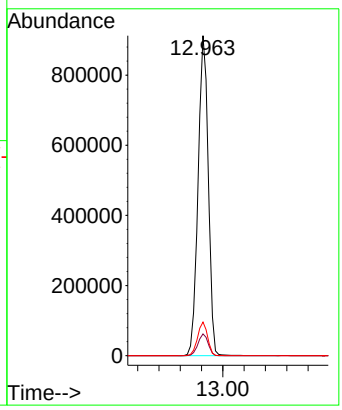


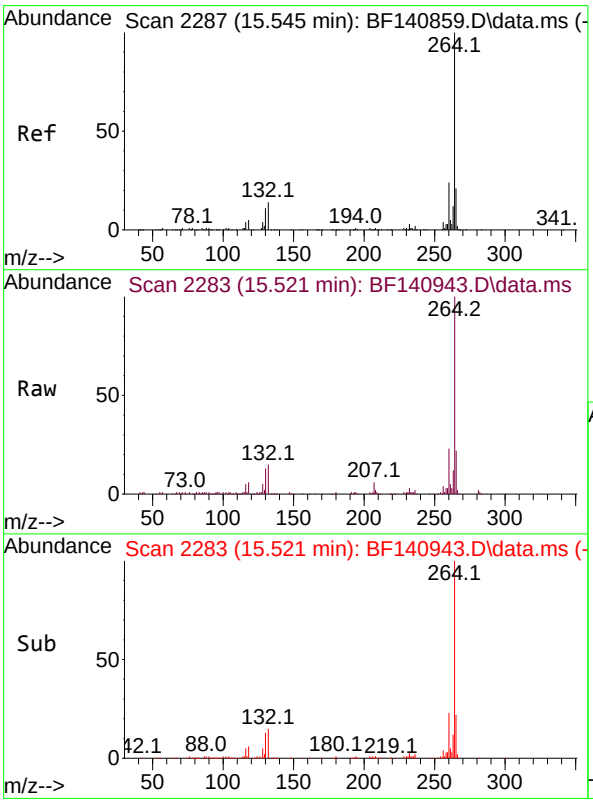
#79
Terphenyl-d14
Concen: 109.809 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Instrument :
BNA_F
ClientSampleId :
PB165705BL

Tgt Ion:244 Resp: 1215200

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.5	8.2	12.2

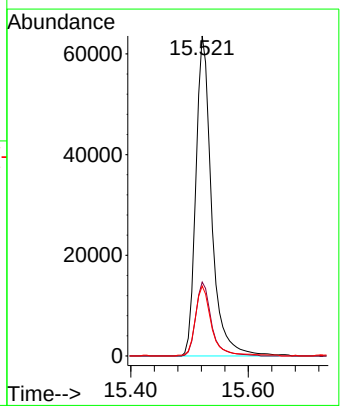




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140943.D
Acq: 20 Dec 2024 11:41

Tgt Ion:264 Resp: 118300

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.1	28.7
265	21.9	17.0	25.4



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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB165705BS			SDG No.:	P5306
Lab Sample ID:	PB165705BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BF140944.D	1	12/18/24 08:56	12/20/24 12:07	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.60		0.083	0.13	0.17	mg/Kg
91-57-6	2-Methylnaphthalene	1.70		0.083	0.13	0.17	mg/Kg
208-96-8	Acenaphthylene	1.80		0.087	0.13	0.17	mg/Kg
83-32-9	Acenaphthene	1.80		0.081	0.13	0.17	mg/Kg
86-73-7	Fluorene	1.50		0.086	0.13	0.17	mg/Kg
85-01-8	Phenanthrene	1.90		0.084	0.13	0.17	mg/Kg
120-12-7	Anthracene	2.00		0.084	0.13	0.17	mg/Kg
206-44-0	Fluoranthene	1.90		0.082	0.13	0.17	mg/Kg
129-00-0	Pyrene	1.90		0.083	0.13	0.17	mg/Kg
56-55-3	Benzo(a)anthracene	1.80		0.081	0.13	0.17	mg/Kg
218-01-9	Chrysene	1.80		0.080	0.13	0.17	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.80		0.081	0.13	0.17	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.80		0.083	0.13	0.17	mg/Kg
50-32-8	Benzo(a)pyrene	1.90		0.093	0.13	0.17	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.20		0.078	0.13	0.17	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	2.10		0.081	0.13	0.17	mg/Kg
191-24-2	Benzo(g,h,i)perylene	2.10		0.080	0.13	0.17	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	91.6		37 - 122		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	105		44 - 115		105%	SPK: 100
1718-51-0	Terphenyl-d14	121		54 - 127		121%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	71200	6.851				
1146-65-2	Naphthalene-d8	256000	8.128				
15067-26-2	Acenaphthene-d10	141000	9.886				
1517-22-2	Phenanthrene-d10	238000	11.38				
1719-03-5	Chrysene-d12	149000	14.033				
1520-96-3	Perylene-d12	114000	15.521				

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB165705BS			SDG No.:	P5306
Lab Sample ID:	PB165705BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BF140944.D	1	12/18/24 08:56	12/20/24 12:07	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\BF122024\
Data File : BF140944.D
Acq On : 20 Dec 2024 12:07
Operator : RC/JU
Sample : PB165705BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 12:32:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	71247	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	255665	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	141292	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	237962	20.000	ng		0.00
76) Chrysene-d12	14.033	240	149220	20.000	ng		0.00
86) Perylene-d12	15.521	264	113763	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	620574	143.386	ng		0.02
7) Phenol-d6	6.510	99	780279	136.115	ng		0.01
23) Nitrobenzene-d5	7.416	82	468127	91.608	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	225262	134.800	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	1081886	105.274	ng		0.00
79) Terphenyl-d14	12.963	244	1140526	120.524	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.746	88	61392	32.932	ng		99
3) Pyridine	3.522	79	164168	38.026	ng		97
4) n-Nitrosodimethylamine	3.475	42	85503	39.286	ng	#	93
6) Aniline	6.522	93	200558	40.919	ng	#	82
8) 2-Chlorophenol	6.645	128	251463	53.280	ng		98
9) Benzaldehyde	6.410	77	51666	16.266	ng		98
10) Phenol	6.522	94	290791	48.944	ng		96
11) bis(2-Chloroethyl)ether	6.586	93	227090	51.253	ng		98
12) 1,3-Dichlorobenzene	6.786	146	267093	49.664	ng		97
13) 1,4-Dichlorobenzene	6.869	146	268358	49.158	ng		99
14) 1,2-Dichlorobenzene	7.016	146	244910	47.549	ng		99
15) Benzyl Alcohol	7.004	79	202352	49.369	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.116	45	244867	46.913	ng		94
17) 2-Methylphenol	7.122	107	180851	47.995	ng		99
18) Hexachloroethane	7.351	117	87121	42.869	ng		99
19) n-Nitroso-di-n-propyla...	7.263	70	172630	50.203	ng		98
20) 3+4-Methylphenols	7.275	107	254983	51.031	ng	#	84
22) Acetophenone	7.263	105	347847	54.389	ng		94
24) Nitrobenzene	7.439	77	235580	45.000	ng		95
25) Isophorone	7.675	82	424100	49.531	ng		99
26) 2-Nitrophenol	7.751	139	128251	53.191	ng		94
27) 2,4-Dimethylphenol	7.792	122	176373	62.636	ng		99
28) bis(2-Chloroethoxy)met...	7.875	93	265660	49.677	ng		99
29) 2,4-Dichlorophenol	8.004	162	207115	53.277	ng		98
30) 1,2,4-Trichlorobenzene	8.075	180	218640	49.061	ng		98
31) Naphthalene	8.151	128	685399	48.804	ng		99
32) Benzoic acid	7.951	122	85175	31.894	ng		95
33) 4-Chloroaniline	8.210	127	161324	34.586	ng		97
34) Hexachlorobutadiene	8.263	225	140865	46.981	ng		100
35) Caprolactam	8.592	113	57419m	49.612	ng		
36) 4-Chloro-3-methylphenol	8.710	107	201762	46.112	ng		97
37) 2-Methylnaphthalene	8.845	142	464695	50.021	ng		99
38) 1-Methylnaphthalene	8.945	142	438727	47.751	ng		100
40) 1,2,4,5-Tetrachloroben...	9.010	216	234321	53.956	ng		99
41) Hexachlorocyclopentadiene	8.992	237	96370	68.569	ng		99
43) 2,4,6-Trichlorophenol	9.133	196	133695	50.276	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140944.D
Acq On : 20 Dec 2024 12:07
Operator : RC/JU
Sample : PB165705BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 12:32:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	143227	49.003	ng	98
46) 1,1'-Biphenyl	9.310	154	552413	49.168	ng	100
47) 2-Chloronaphthalene	9.333	162	417659	48.592	ng	100
48) 2-Nitroaniline	9.439	65	121577	46.835	ng	93
49) Acenaphthylene	9.751	152	681698	53.969	ng	99
50) Dimethylphthalate	9.610	163	496054	49.797	ng	100
51) 2,6-Dinitrotoluene	9.680	165	108898	47.820	ng	97
52) Acenaphthene	9.922	154	430468	53.351	ng	99
53) 3-Nitroaniline	9.857	138	77254	34.184	ng	95
54) 2,4-Dinitrophenol	9.980	184	81264	73.697	ng	90
55) Dibenzofuran	10.092	168	623949	49.905	ng	99
56) 4-Nitrophenol	10.051	139	87740	72.611	ng	94
57) 2,4-Dinitrotoluene	10.092	165	144968	48.383	ng	99
58) Fluorene	10.439	166	477180	46.262	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.227	232	127554	53.557	ng	95
60) Diethylphthalate	10.310	149	534197	51.715	ng	99
61) 4-Chlorophenyl-phenyle...	10.427	204	243755	47.046	ng	95
62) 4-Nitroaniline	10.480	138	101945m	43.167	ng	
63) Azobenzene	10.586	77	431430	44.427	ng	96
65) 4,6-Dinitro-2-methylph...	10.510	198	66725	49.484	ng	96
66) n-Nitrosodiphenylamine	10.551	169	414949	56.716	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	146442	55.009	ng	97
68) Hexachlorobenzene	10.992	284	165233	54.744	ng	98
69) Atrazine	11.080	200	134695	65.919	ng	98
70) Pentachlorophenol	11.198	266	94695	85.812	ng	99
71) Phenanthrene	11.404	178	701422	57.320	ng	99
72) Anthracene	11.457	178	725617	60.212	ng	100
73) Carbazole	11.616	167	673948	57.096	ng	100
74) Di-n-butylphthalate	11.927	149	763567	55.119	ng	100
75) Fluoranthene	12.598	202	786570	55.813	ng	99
77) Benzidine	12.721	184	155983	51.217	ng	100
78) Pyrene	12.827	202	758712	57.177	ng	100
80) Butylbenzylphthalate	13.433	149	297455	60.922	ng	96
81) Benzo(a)anthracene	14.021	228	557901	52.753	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	102996	32.279	ng	98
83) Chrysene	14.057	228	508492	52.875	ng	99
84) Bis(2-ethylhexyl)phtha...	13.986	149	339592	53.941	ng	100
85) Di-n-octyl phthalate	14.604	149	455909	47.866	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	463336	65.266	ng	100
88) Benzo(b)fluoranthene	15.086	252	417172	52.828	ng	100
89) Benzo(k)fluoranthene	15.109	252	360481	53.216	ng	99
90) Benzo(a)pyrene	15.456	252	359761	58.181	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	377716	64.223	ng	99
92) Benzo(g,h,i)perylene	17.492	276	379421	63.386	ng	98

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

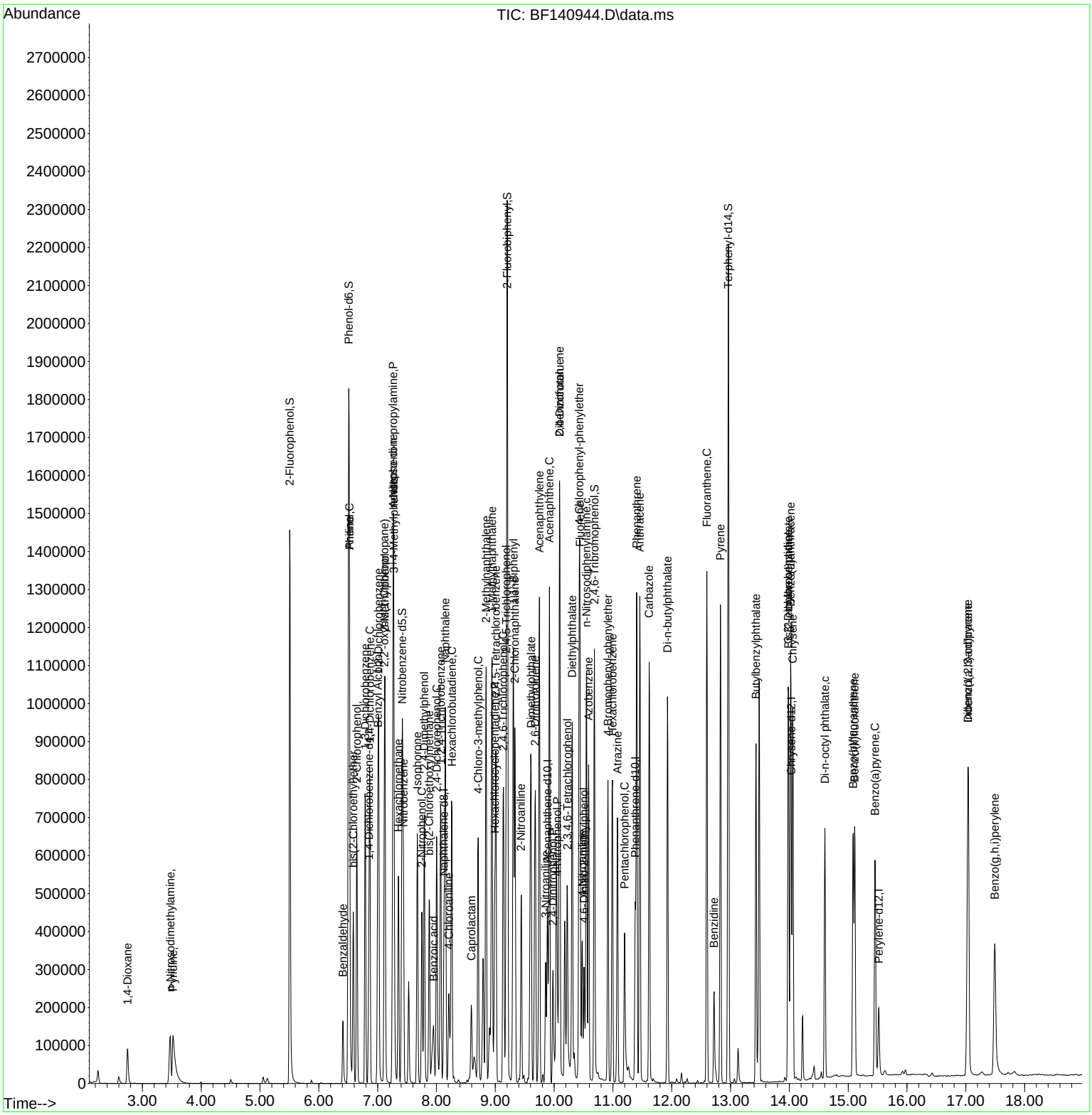
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140944.D
Acq On : 20 Dec 2024 12:07
Operator : RC/JU
Sample : PB165705BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

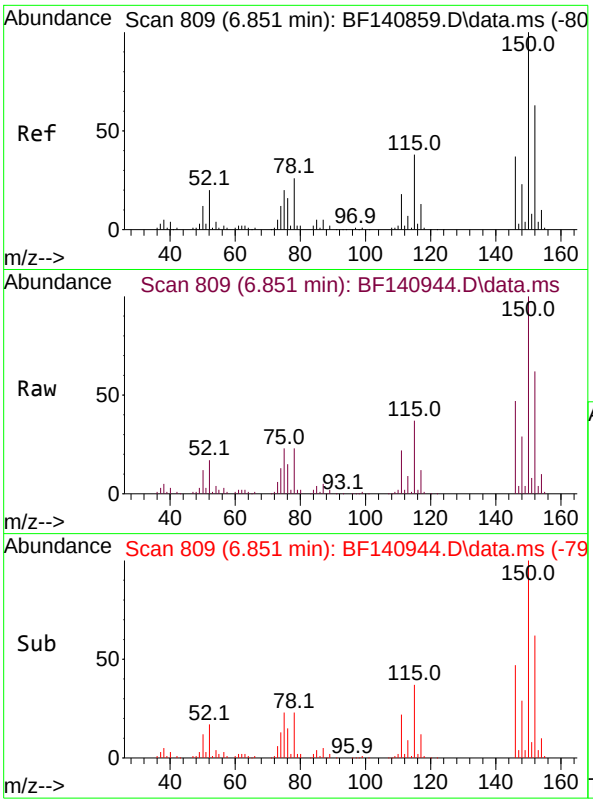
Quant Time: Dec 20 12:32:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

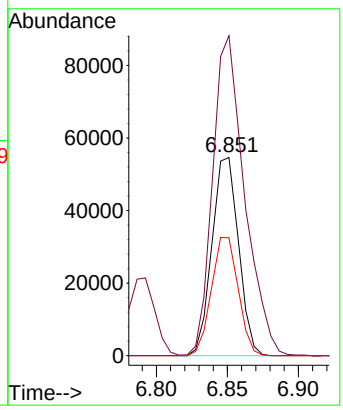




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:152 Resp: 7124

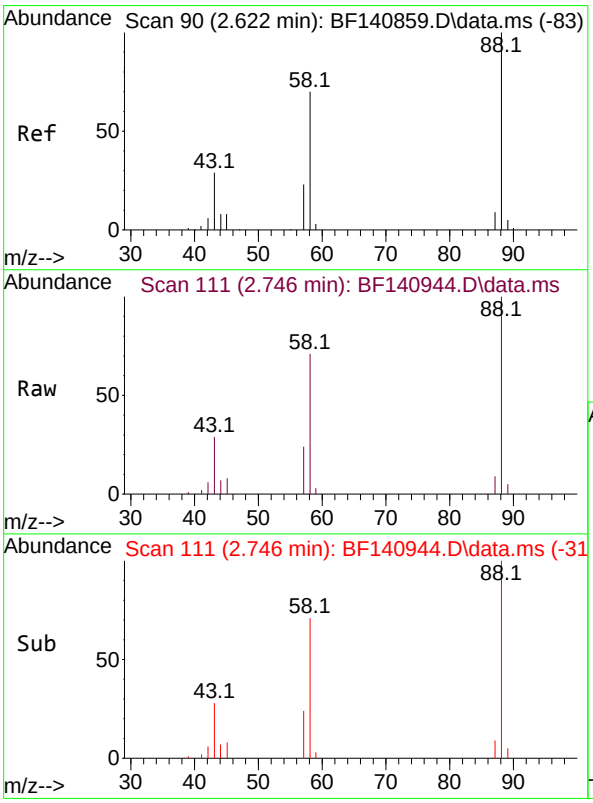
Ion	Ratio	Lower	Upper
152	100		
150	161.4	127.9	191.9
115	59.5	48.0	72.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

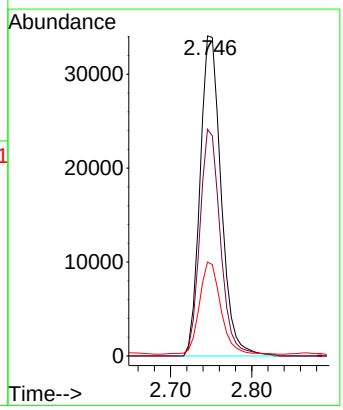
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

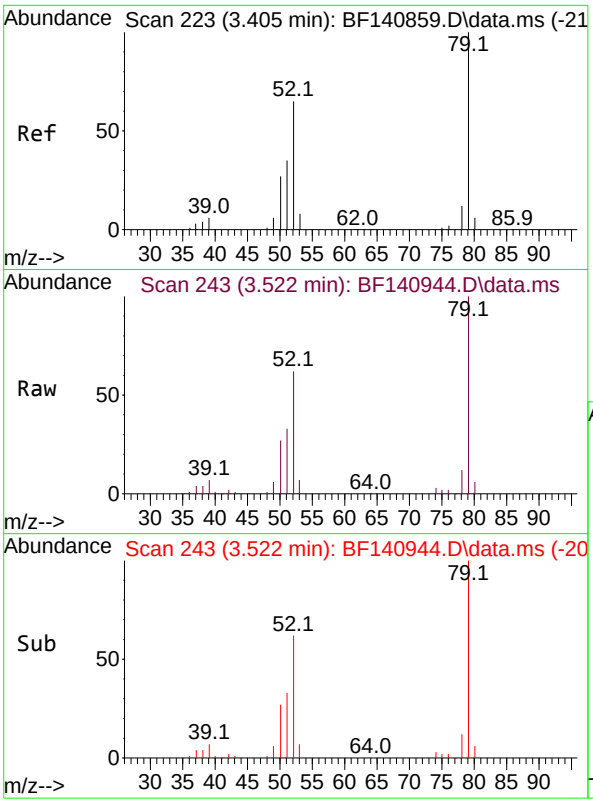


#2
1,4-Dioxane
Concen: 32.932 ng
RT: 2.746 min Scan# 111
Delta R.T. 0.123 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 88 Resp: 61392

Ion	Ratio	Lower	Upper
88	100		
58	69.7	55.8	83.8
43	30.8	22.7	34.1

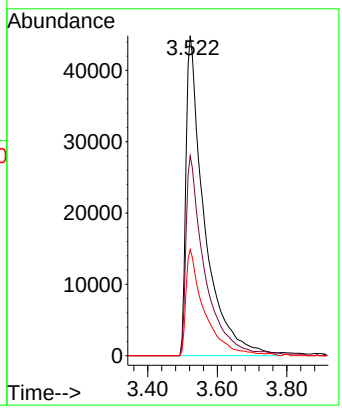




#3
Pyridine
Concen: 38.026 ng
RT: 3.522 min Scan# 24
Delta R.T. 0.117 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 79 Resp: 16416

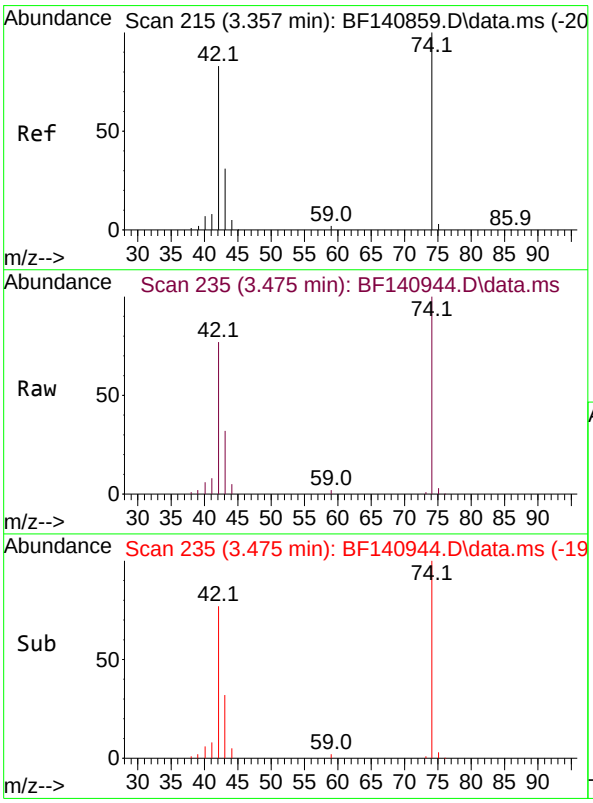
Ion	Ratio	Lower	Upper
79	100		
52	62.4	51.7	77.5
51	33.1	28.2	42.4



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

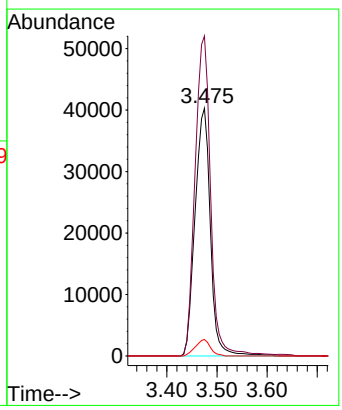
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

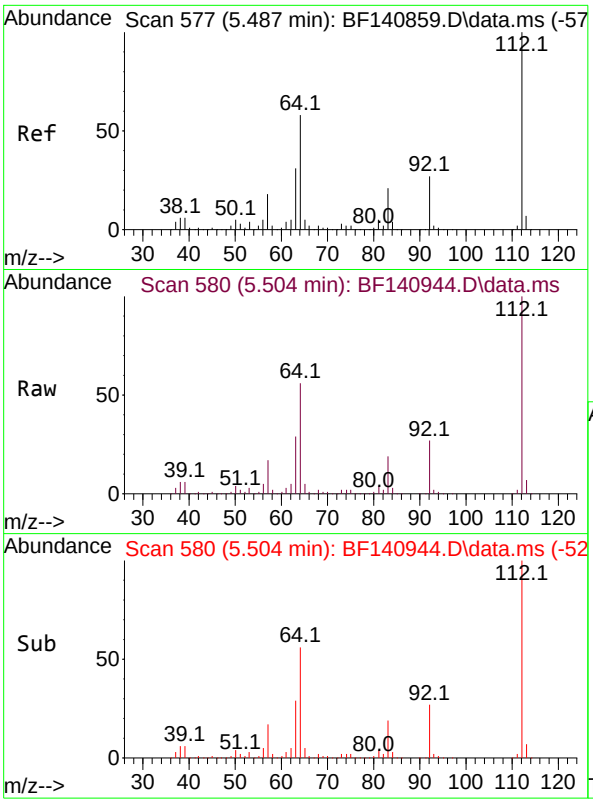


#4
n-Nitrosodimethylamine
Concen: 39.286 ng
RT: 3.475 min Scan# 235
Delta R.T. 0.117 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 42 Resp: 85503

Ion	Ratio	Lower	Upper
42	100		
74	129.2	96.9	145.3
44	6.7	4.4	6.6#

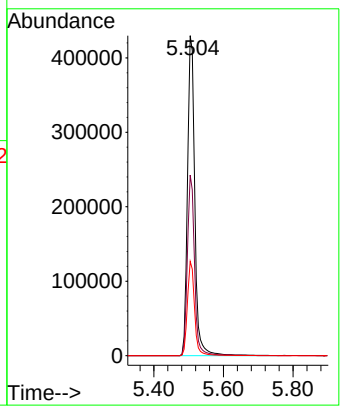




#5
2-Fluorophenol
Concen: 143.386 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.017 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:112 Resp: 62057

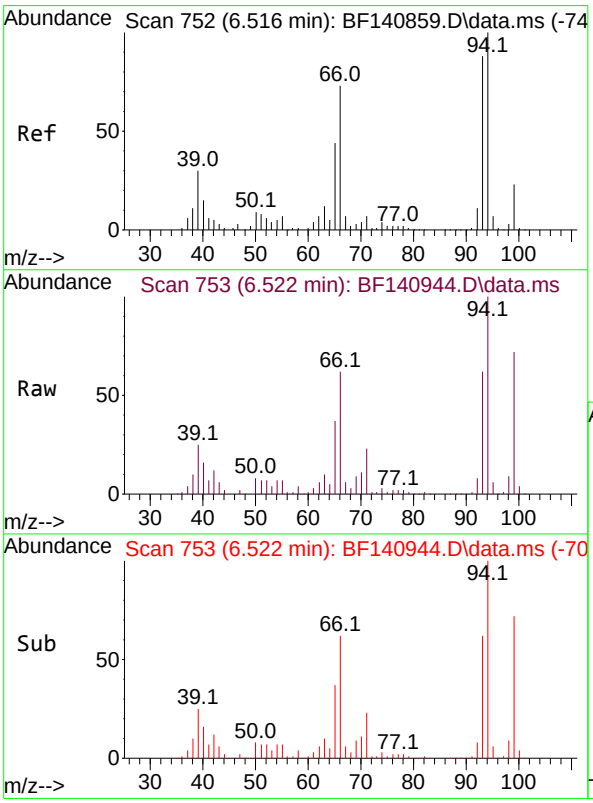
Ion	Ratio	Lower	Upper
112	100		
64	56.5	46.1	69.1
63	29.5	24.9	37.3



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

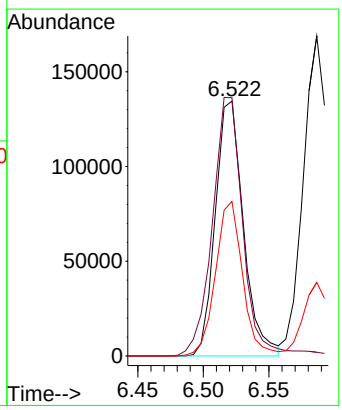
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

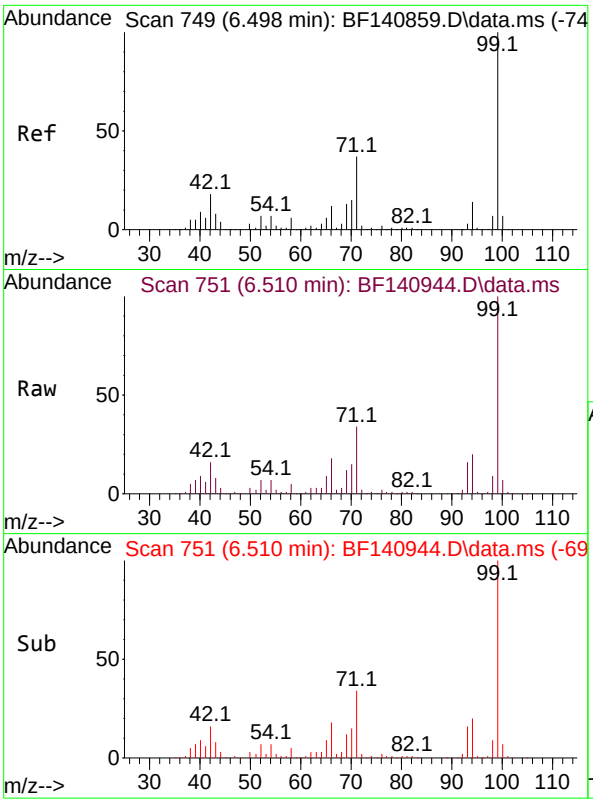


#6
Aniline
Concen: 40.919 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 93 Resp: 200558

Ion	Ratio	Lower	Upper
93	100		
66	101.3	67.0	100.4#
65	60.6	40.4	60.6#

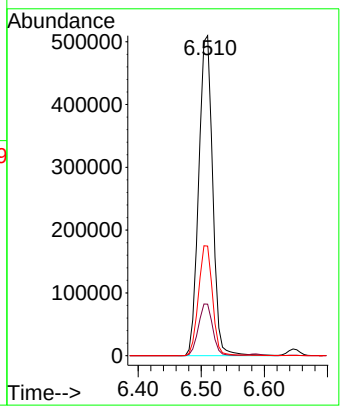




#7
Phenol-d6
Concen: 136.115 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

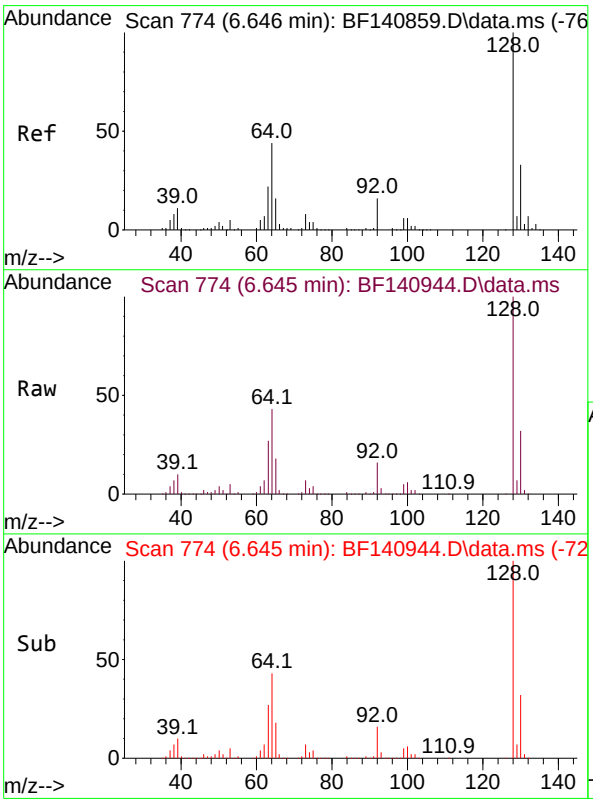
Tgt Ion: 99 Resp: 78027

Ion	Ratio	Lower	Upper
99	100		
42	16.1	14.3	21.5
71	34.3	29.9	44.9



Instrument :
BNA_F
ClientSampleId :
PB165705BS

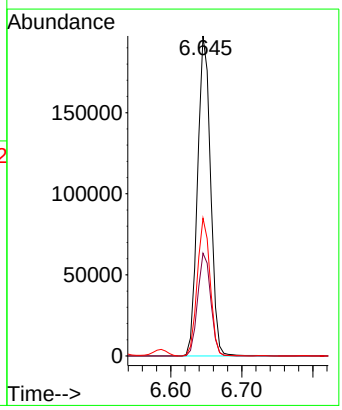
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

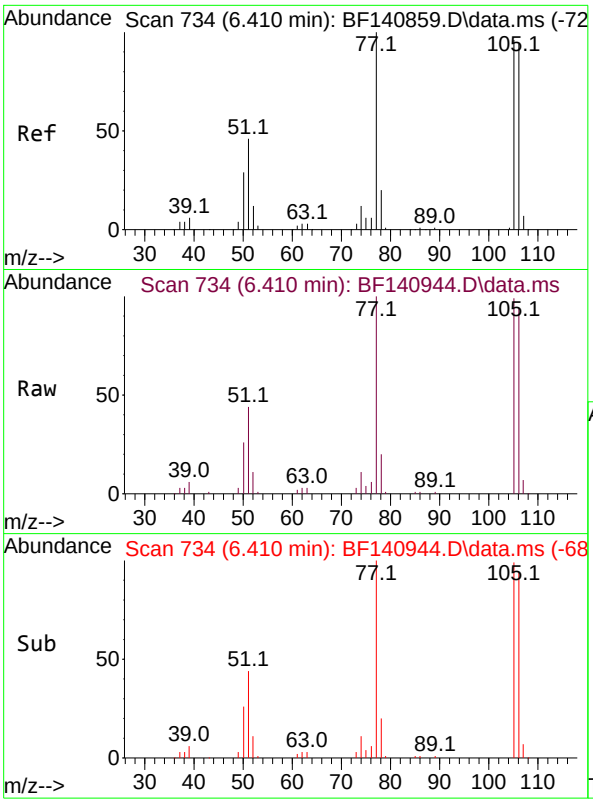


#8
2-Chlorophenol
Concen: 53.280 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:128 Resp: 251463

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.9	52.9
64	43.0	24.3	64.3

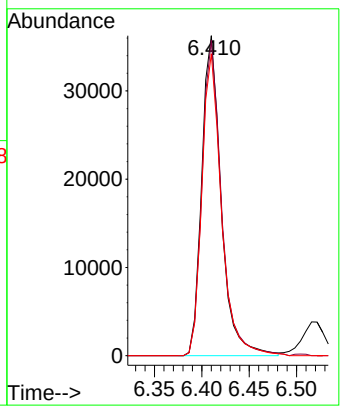




#9
Benzaldehyde
Concen: 16.266 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 77 Resp: 5166

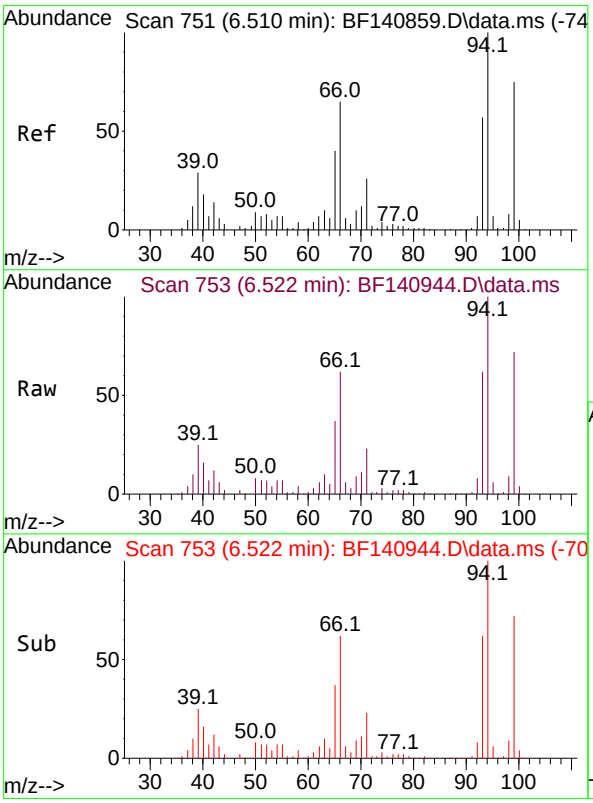
Ion	Ratio	Lower	Upper
77	100		
105	98.5	75.8	115.8
106	94.3	74.1	114.1



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

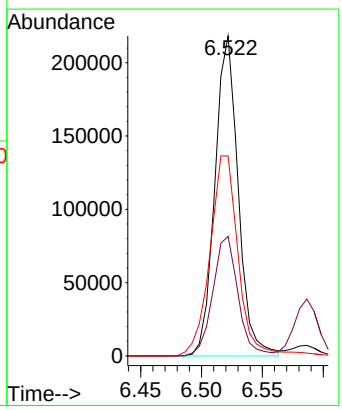
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

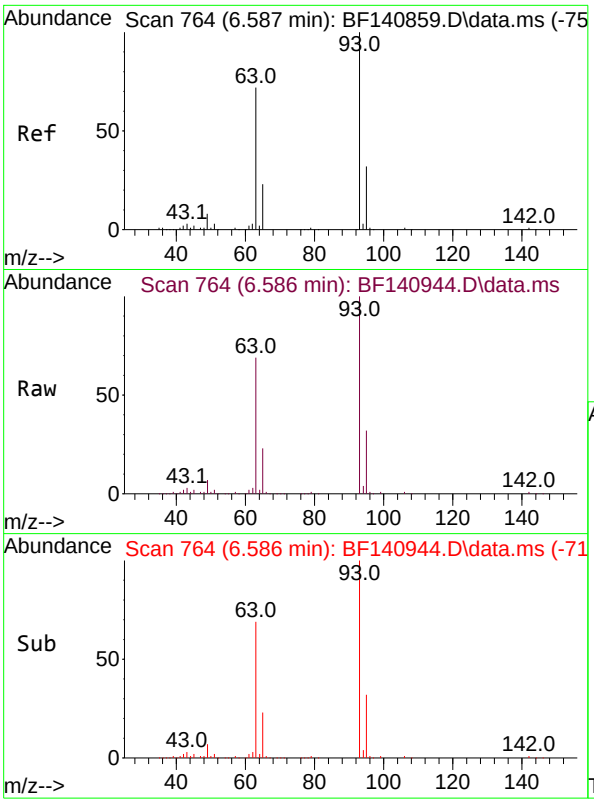


#10
Phenol
Concen: 48.944 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 94 Resp: 290791

Ion	Ratio	Lower	Upper
94	100		
65	37.4	19.9	59.9
66	62.5	45.6	85.6

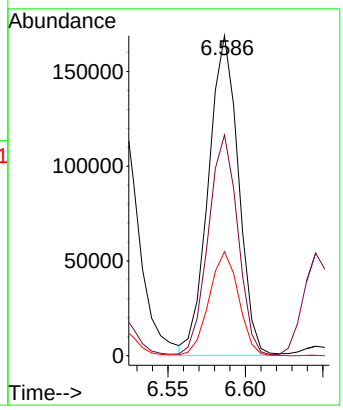




#11
bis(2-Chloroethyl)ether
Concen: 51.253 ng
RT: 6.586 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 93 Resp: 22709

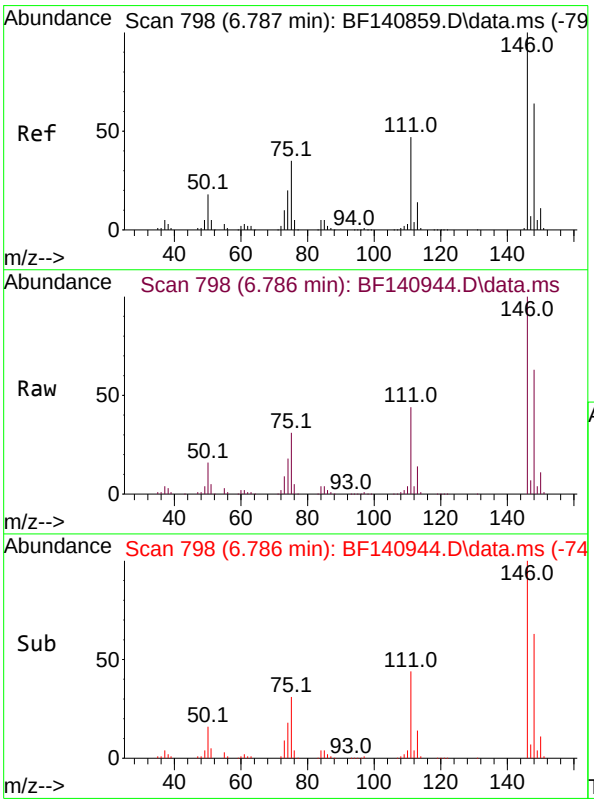
Ion	Ratio	Lower	Upper
93	100		
63	69.0	51.0	91.0
95	32.5	12.0	52.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

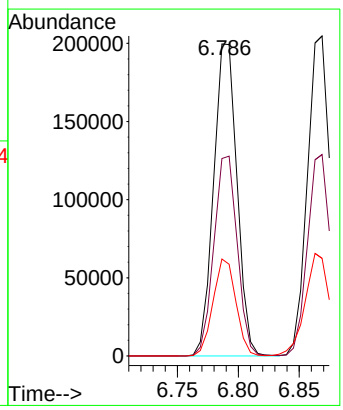
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

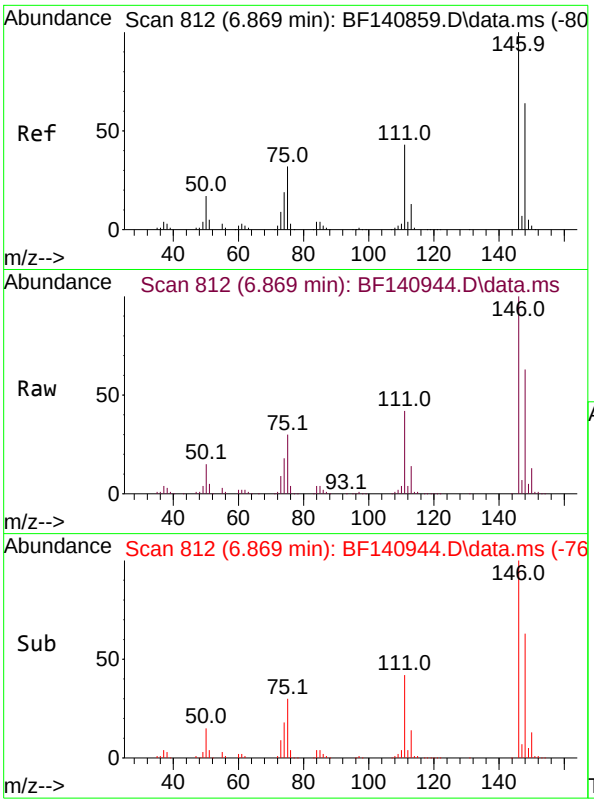


#12
1,3-Dichlorobenzene
Concen: 49.664 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:146 Resp: 267093

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.6
75	31.1	28.1	42.1

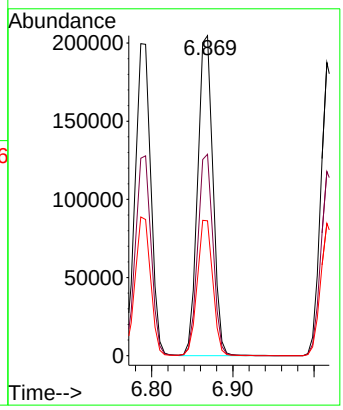




#13
1,4-Dichlorobenzene
Concen: 49.158 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:146 Resp: 26835

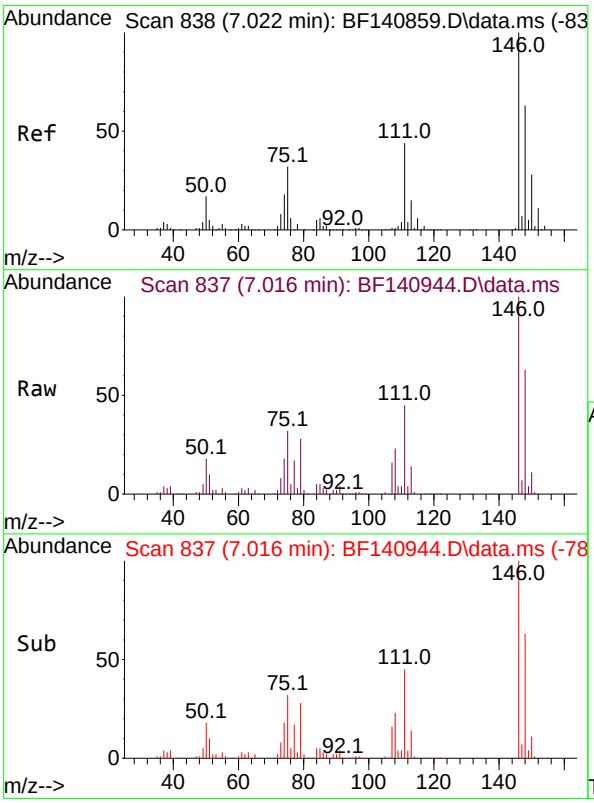
Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.3	76.9
111	42.2	34.4	51.6



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

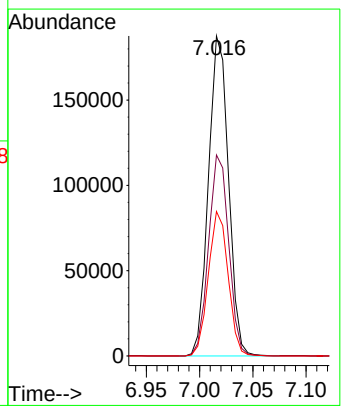
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

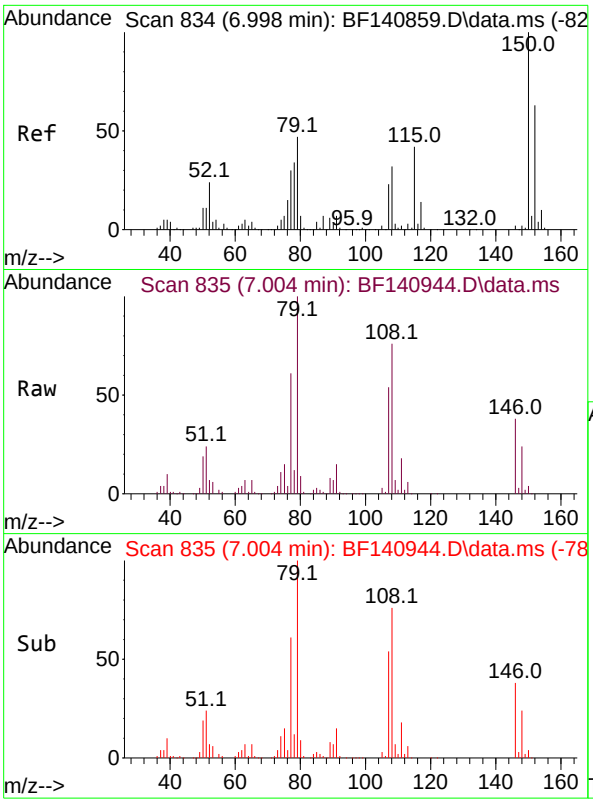


#14
1,2-Dichlorobenzene
Concen: 47.549 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:146 Resp: 244910

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.0	75.0
111	45.1	35.6	53.4





#15
Benzyl Alcohol
Concen: 49.369 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

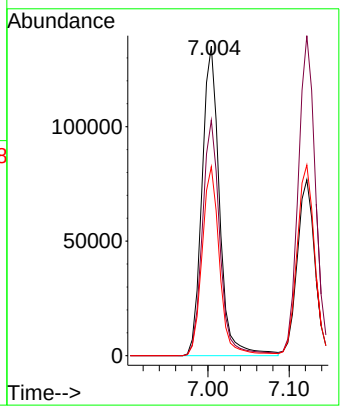
Tgt Ion: 79 Resp: 20235

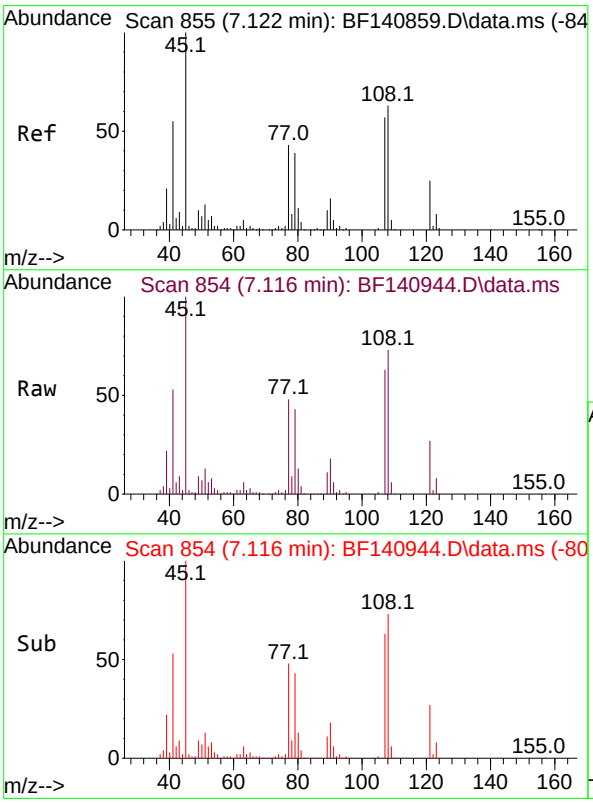
Ion	Ratio	Lower	Upper
79	100		
108	76.1	55.1	82.7
77	61.0	50.6	76.0

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

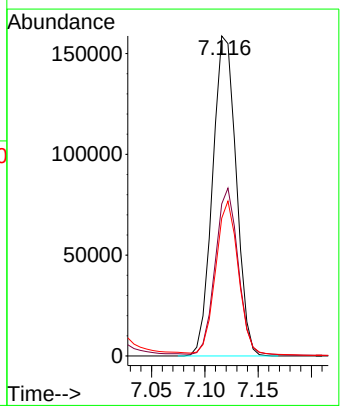


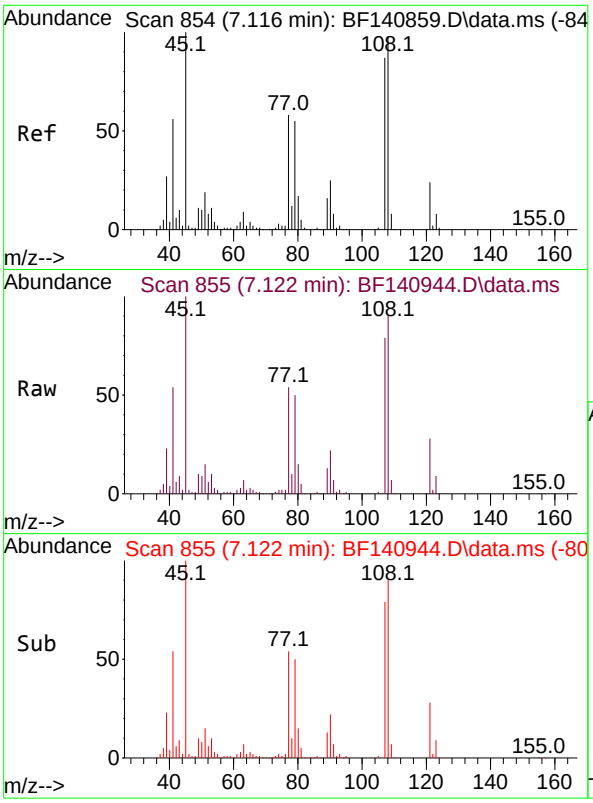


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.913 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 45 Resp: 244867

Ion	Ratio	Lower	Upper
45	100		
77	47.5	23.3	63.3
79	43.1	20.0	60.0

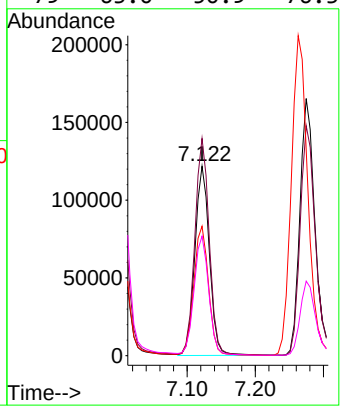




#17
2-Methylphenol
Concen: 47.995 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:107 Resp: 18085

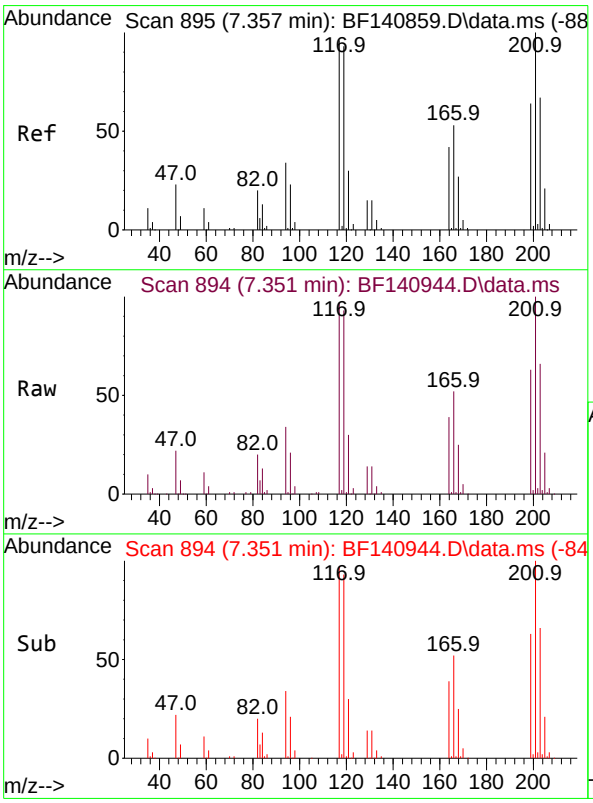
Ion	Ratio	Lower	Upper
107	100		
108	114.6	90.2	135.4
77	68.3	53.8	80.6
79	63.0	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

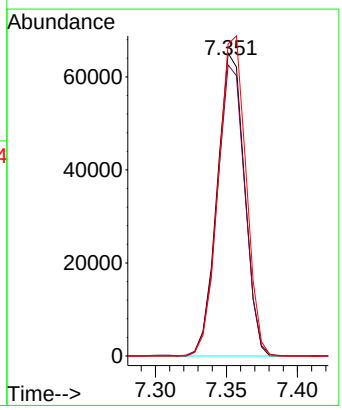
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

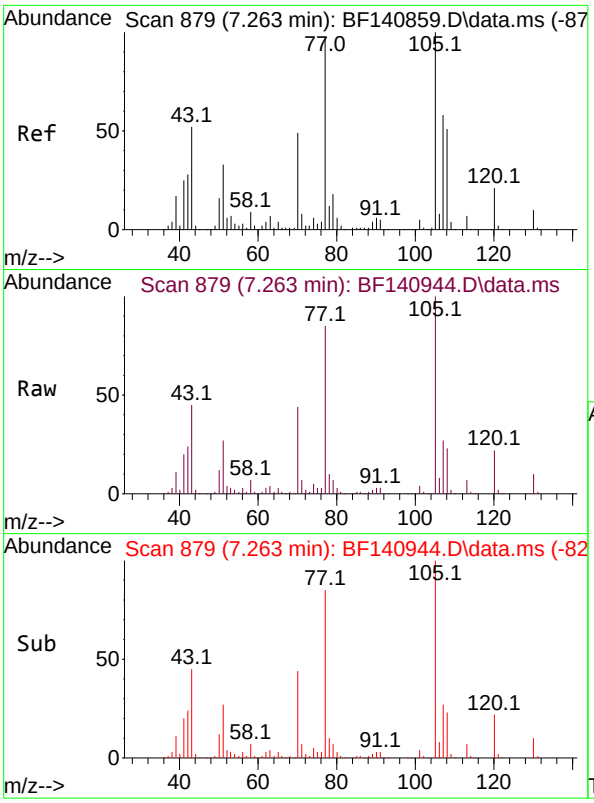


#18
Hexachloroethane
Concen: 42.869 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:117 Resp: 87121

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.4	116.0
201	103.0	83.4	125.0

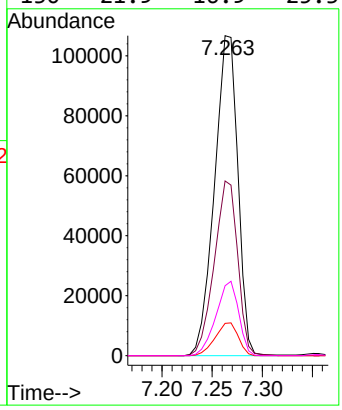




#19
n-Nitroso-di-n-propylamine
Concen: 50.203 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

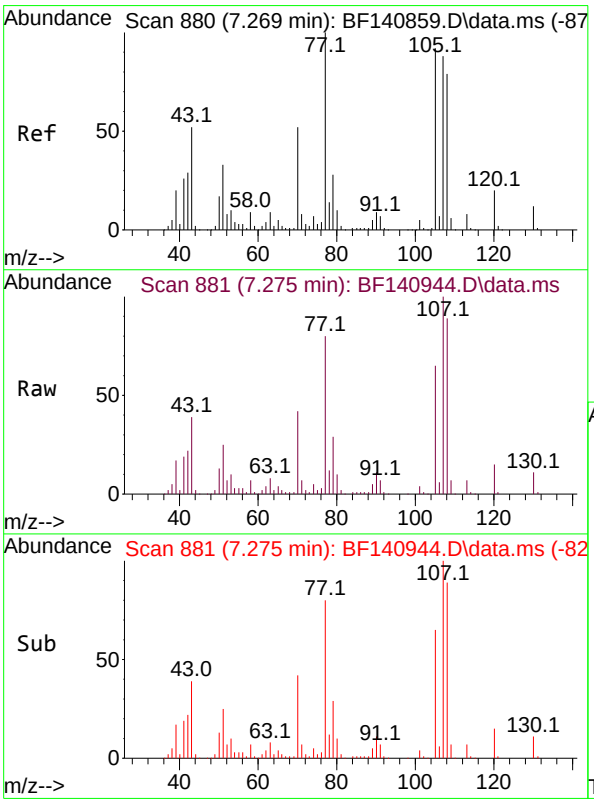
Tgt Ion: 70 Resp: 17263

Ion	Ratio	Lower	Upper
70	100		
42	54.6	45.3	67.9
101	10.1	8.0	12.0
130	21.9	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
PB165705BS

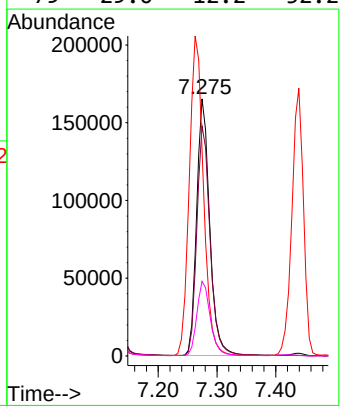
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

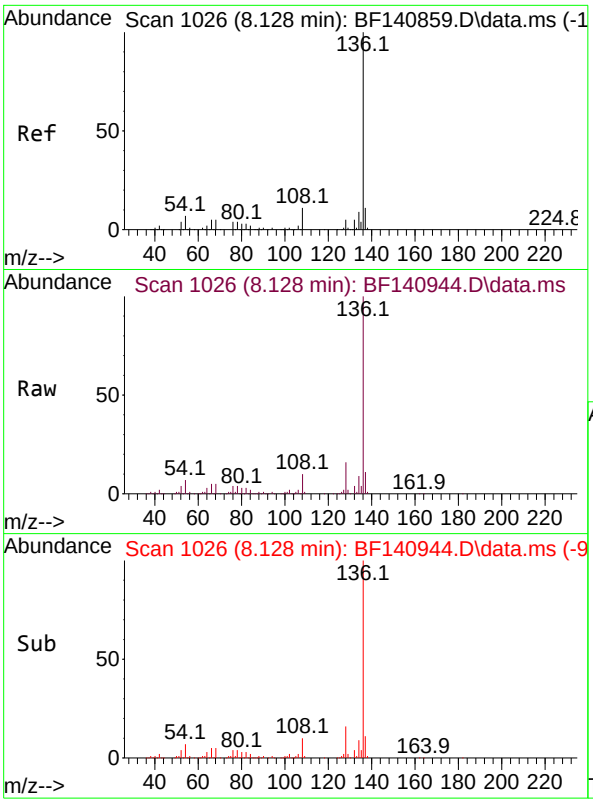


#20
3+4-Methylphenols
Concen: 51.031 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:107 Resp: 254983

Ion	Ratio	Lower	Upper
107	100		
108	89.4	70.1	110.1
77	80.1	94.4	134.4#
79	29.0	12.2	52.2

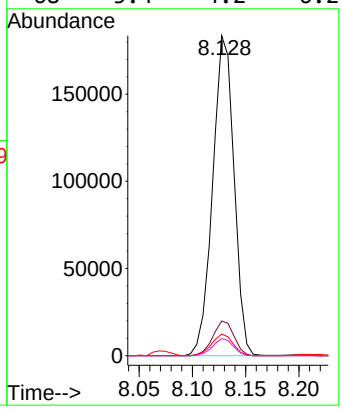




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:136 Resp: 25566

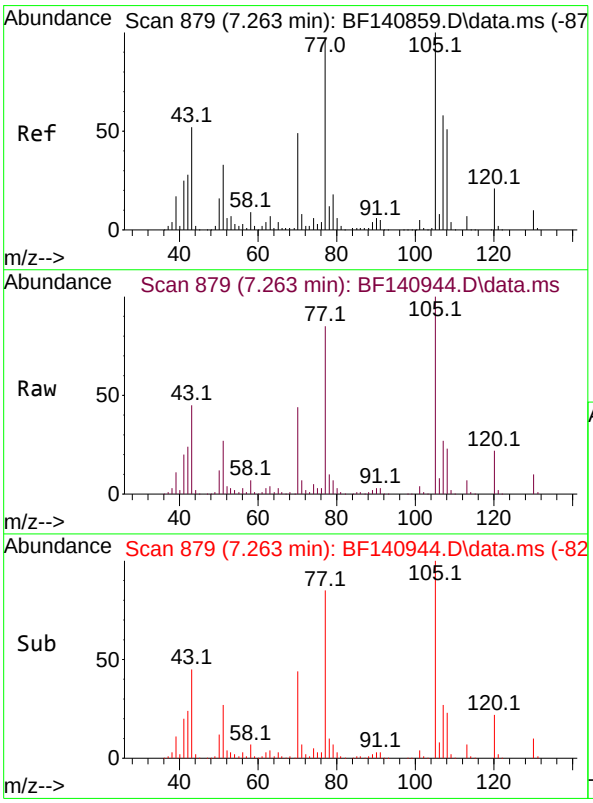
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.8	5.6	8.4
68	5.4	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

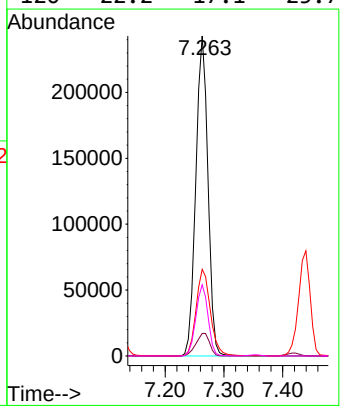
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

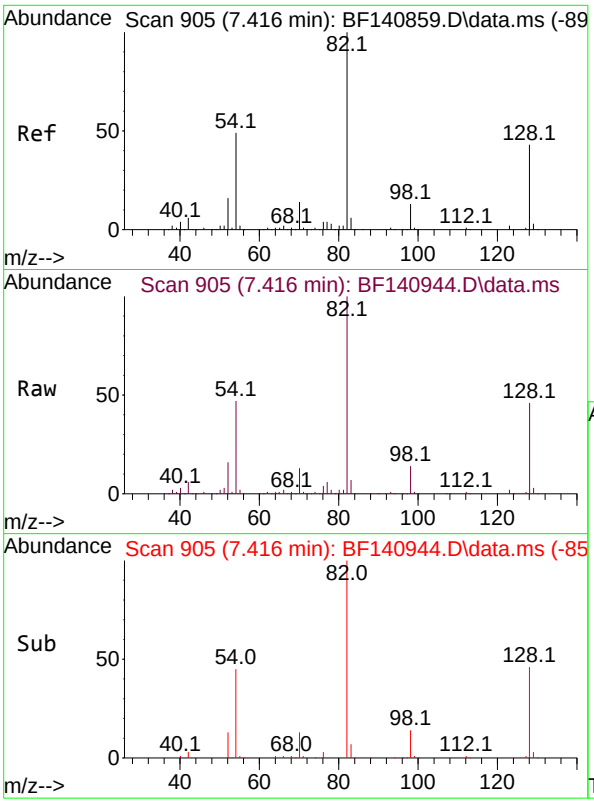


#22
Acetophenone
Concen: 54.389 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:105 Resp: 347847

Ion	Ratio	Lower	Upper
105	100		
71	7.0	6.2	9.4
51	27.0	26.3	39.5
120	22.2	17.1	25.7

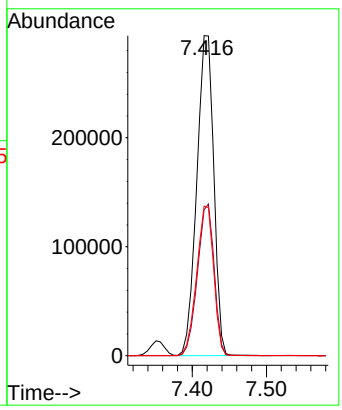




#23
Nitrobenzene-d5
Concen: 91.608 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 82 Resp: 46812

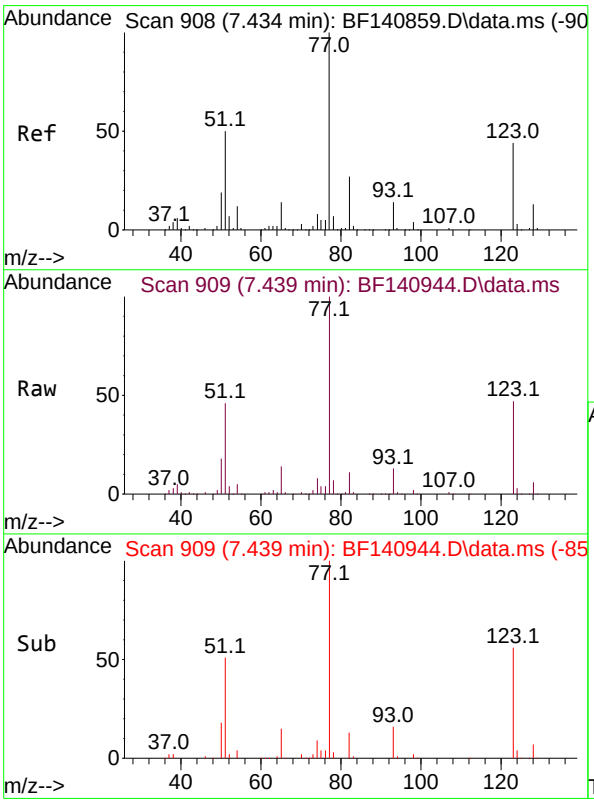
Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.4	51.6
54	46.8	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

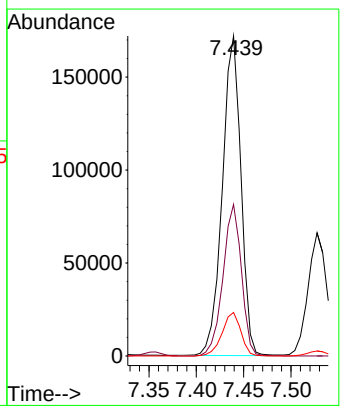
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

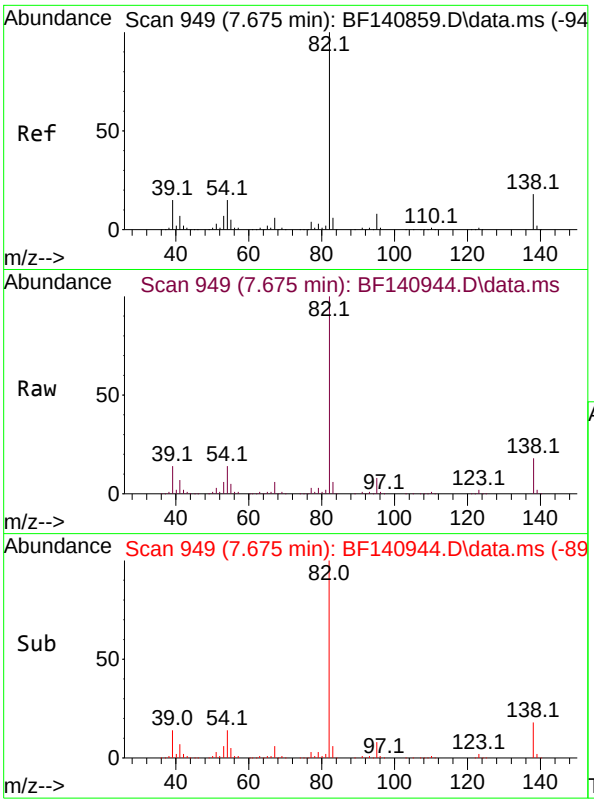


#24
Nitrobenzene
Concen: 45.000 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 77 Resp: 235580

Ion	Ratio	Lower	Upper
77	100		
123	47.3	35.0	52.4
65	13.6	11.4	17.0

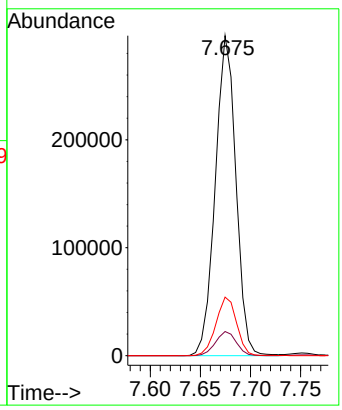




#25
Isophorone
Concen: 49.531 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 82 Resp: 42410

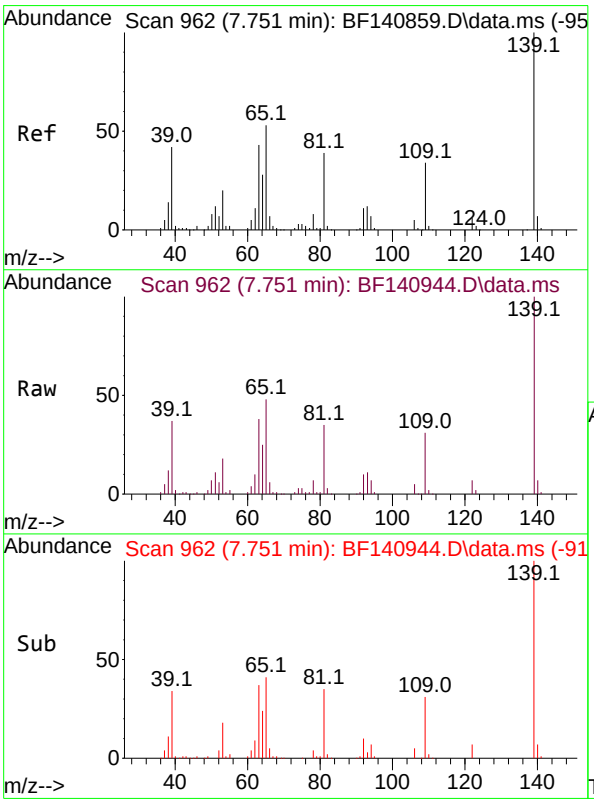
Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.3	9.5
138	18.3	14.1	21.1



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

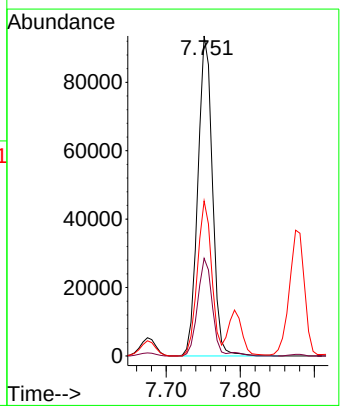
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

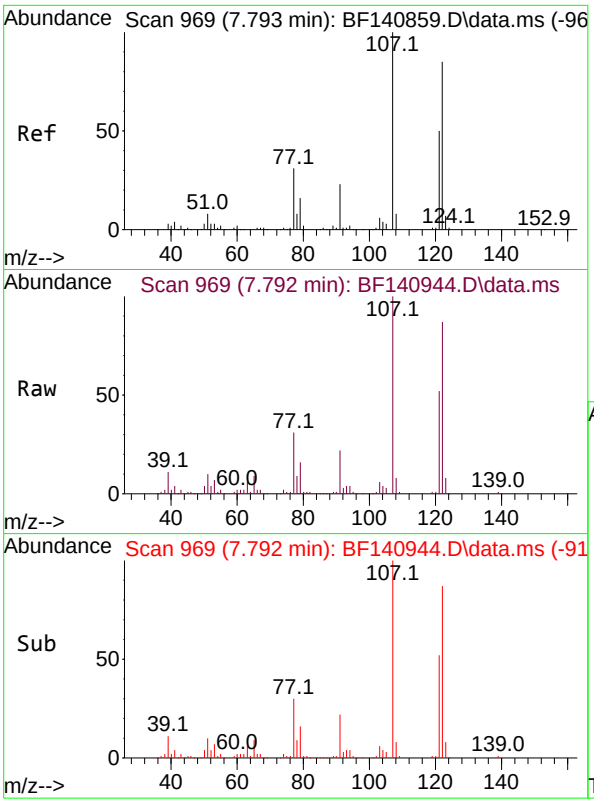


#26
2-Nitrophenol
Concen: 53.191 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:139 Resp: 128251

Ion	Ratio	Lower	Upper
139	100		
109	30.5	26.9	40.3
65	48.4	42.6	64.0

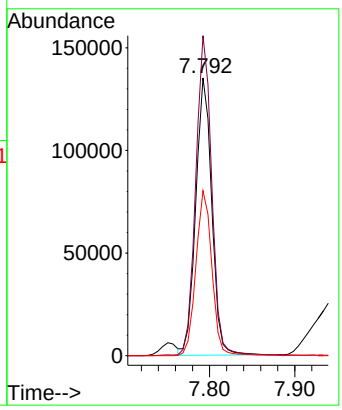




#27
2,4-Dimethylphenol
Concen: 62.636 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:122 Resp: 17637

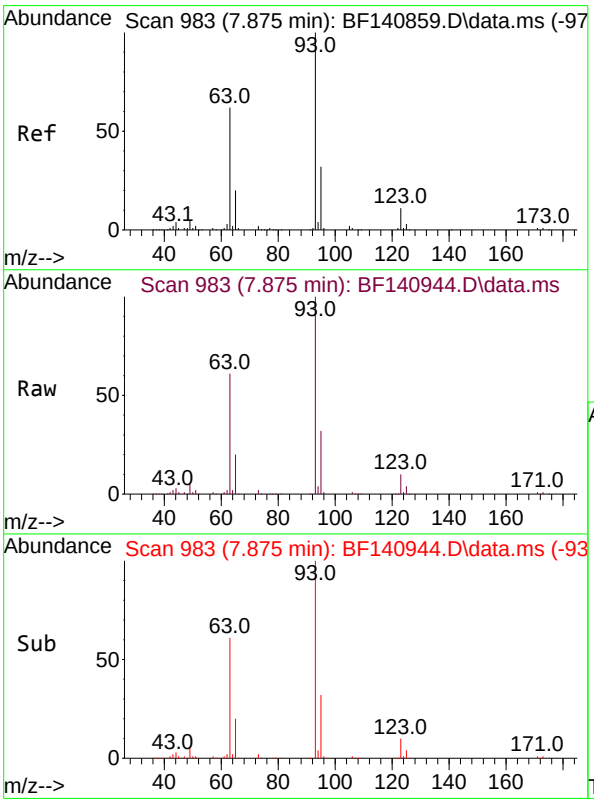
Ion	Ratio	Lower	Upper
122	100		
107	115.2	92.6	139.0
121	59.3	45.8	68.8



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

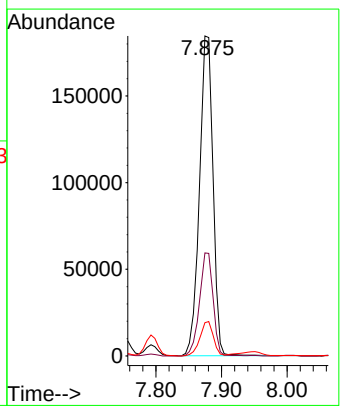
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

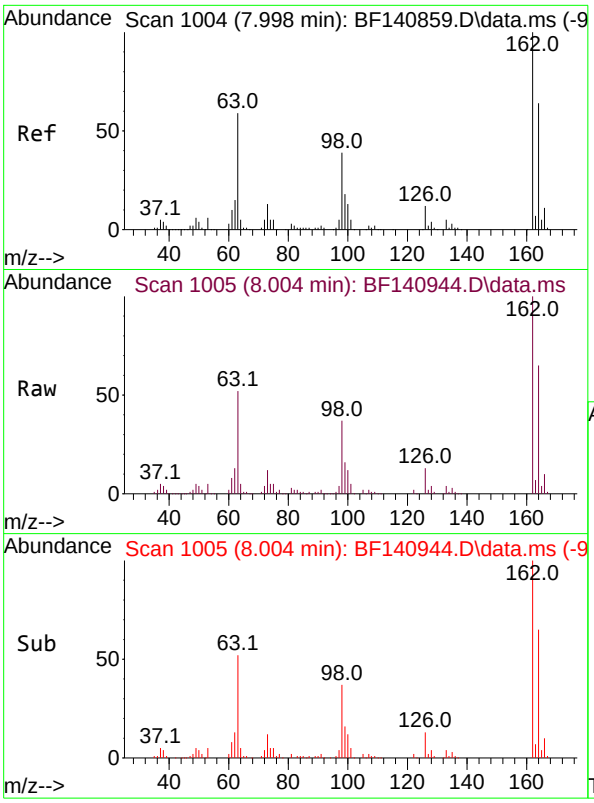


#28
bis(2-Chloroethoxy)methane
Concen: 49.677 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 93 Resp: 265660

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.3	37.9
123	10.4	8.6	13.0

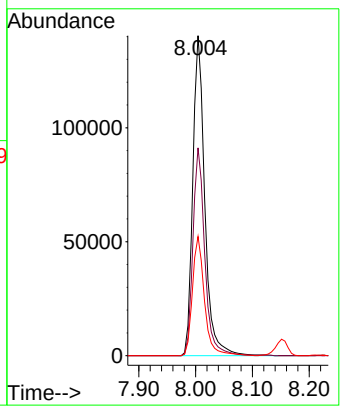




#29
2,4-Dichlorophenol
Concen: 53.277 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

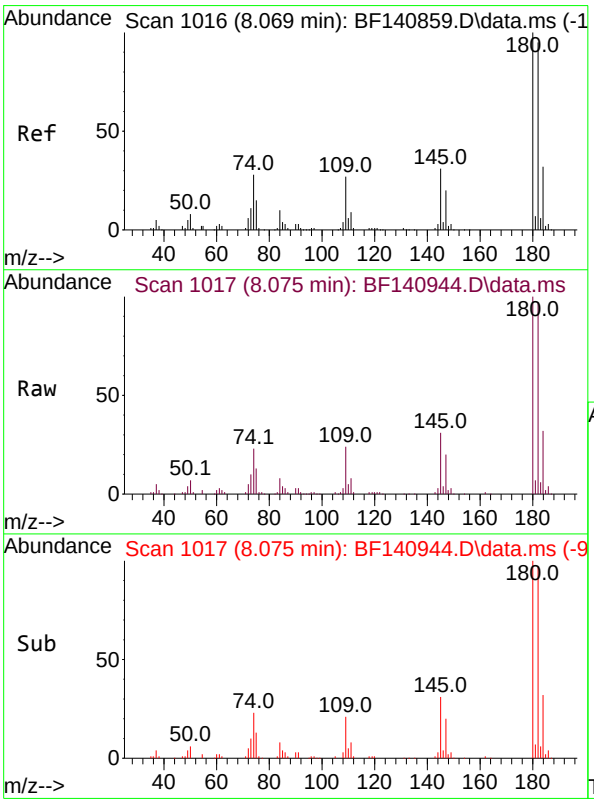
Tgt Ion:162 Resp: 20711

Ion	Ratio	Lower	Upper
162	100		
164	64.9	43.7	83.7
98	37.3	18.6	58.6



Instrument :
BNA_F
ClientSampleId :
PB165705BS

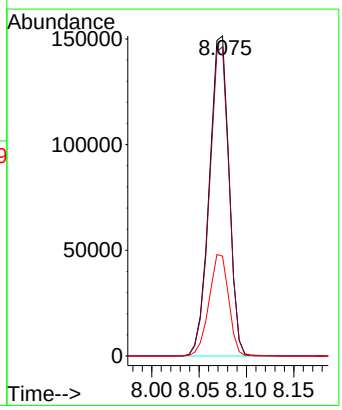
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

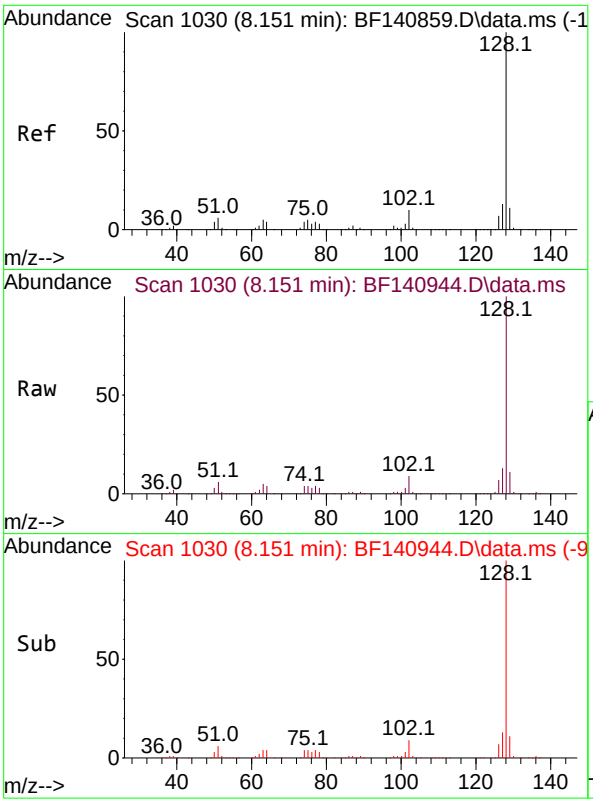


#30
1,2,4-Trichlorobenzene
Concen: 49.061 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:180 Resp: 218640

Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.8	113.6
145	31.2	25.2	37.8

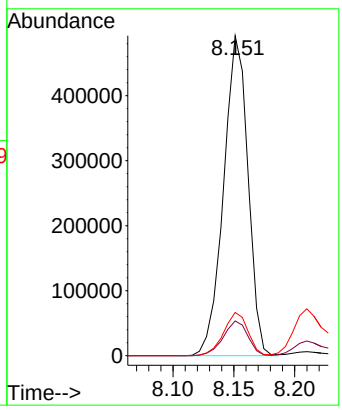




#31
Naphthalene
Concen: 48.804 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:128 Resp: 685399

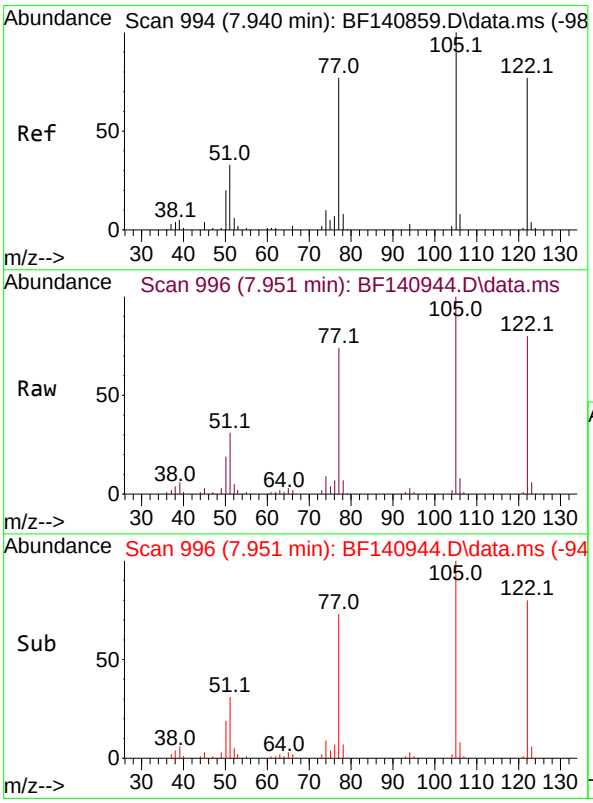
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

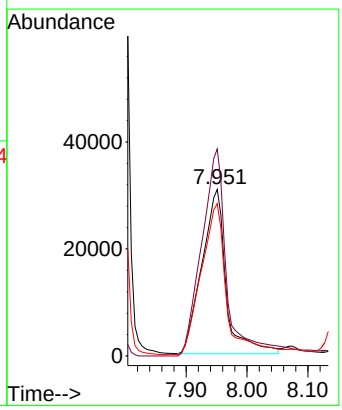
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

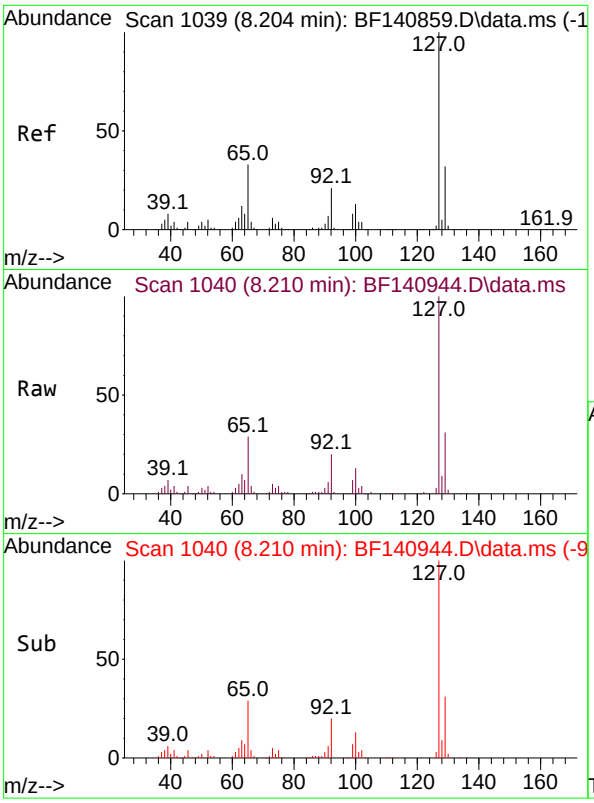


#32
Benzoic acid
Concen: 31.894 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.011 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:122 Resp: 85175

Ion	Ratio	Lower	Upper
122	100		
105	124.3	108.3	148.3
77	91.4	78.8	118.8

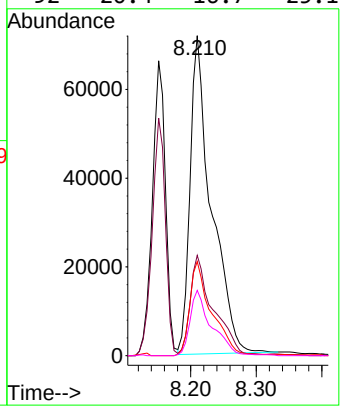




#33
4-Chloroaniline
Concen: 34.586 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:127 Resp: 16132

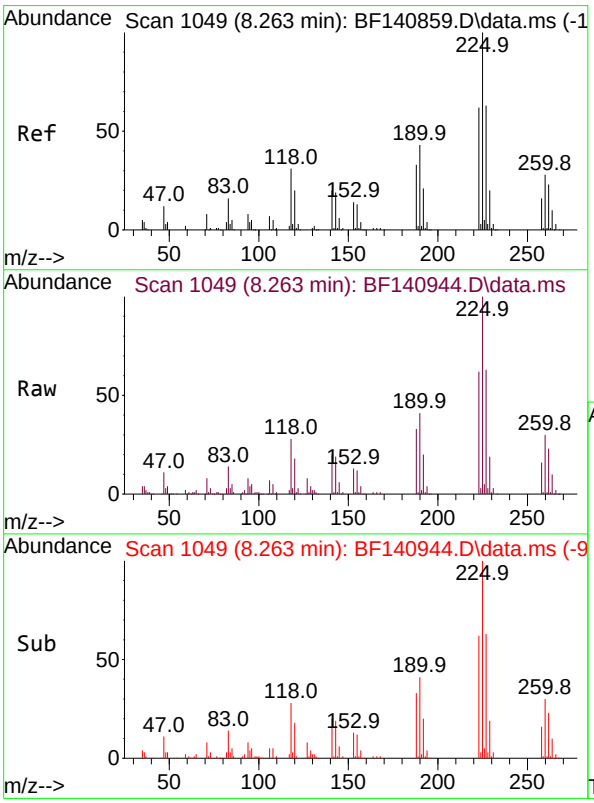
Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.0	39.0
65	29.4	26.0	39.0
92	20.4	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

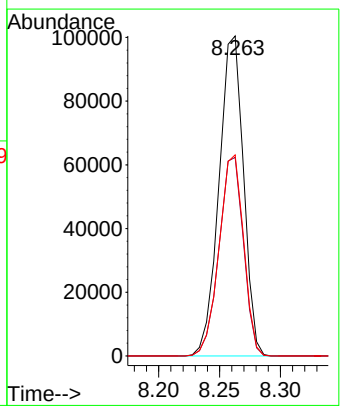
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

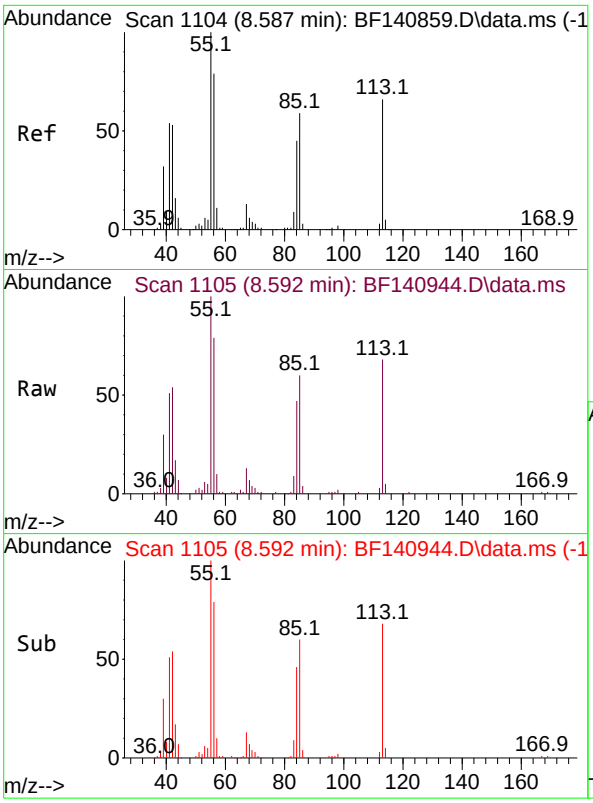


#34
Hexachlorobutadiene
Concen: 46.981 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:225 Resp: 140865

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.6	74.4
227	62.8	50.7	76.1

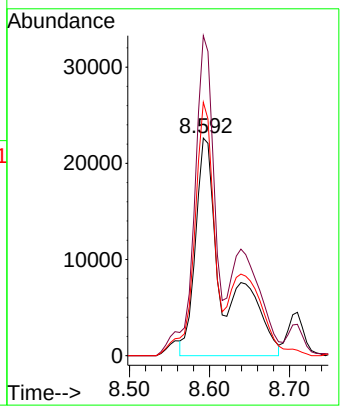




#35
Caprolactam
Concen: 49.612 ng m
RT: 8.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:113 Resp: 5741

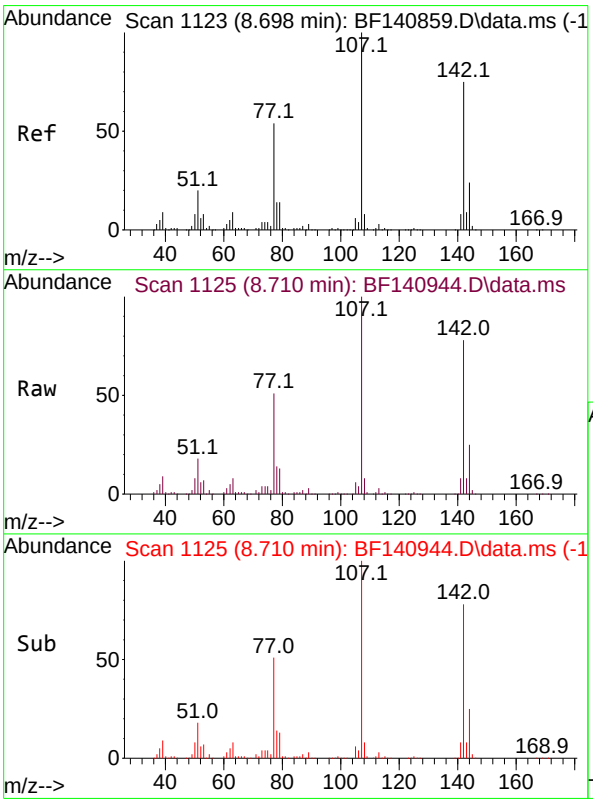
Ion	Ratio	Lower	Upper
113	100		
55	147.0	132.3	172.3
56	116.4	100.3	140.3



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

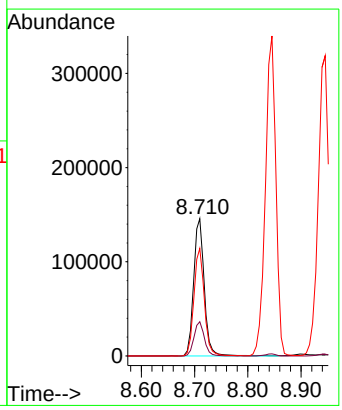
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

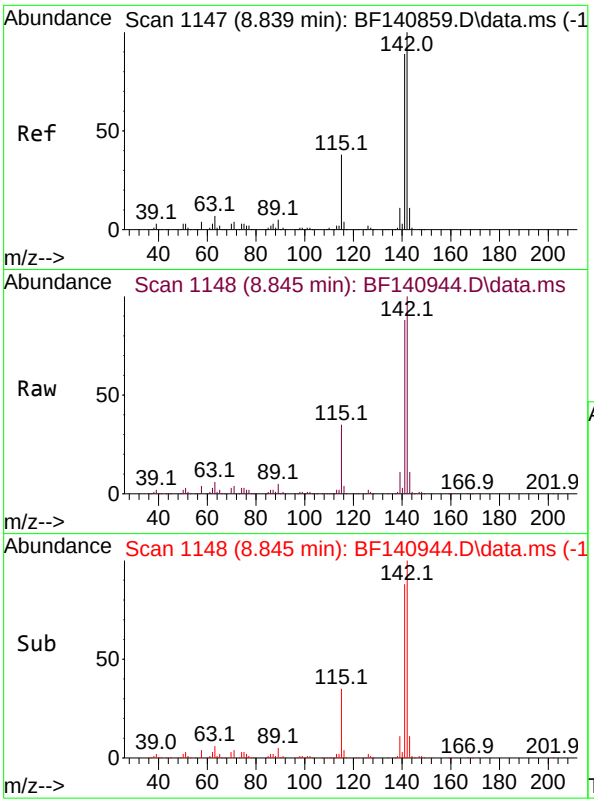


#36
4-Chloro-3-methylphenol
Concen: 46.112 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:107 Resp: 201762

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.4	29.2
142	78.3	60.3	90.5

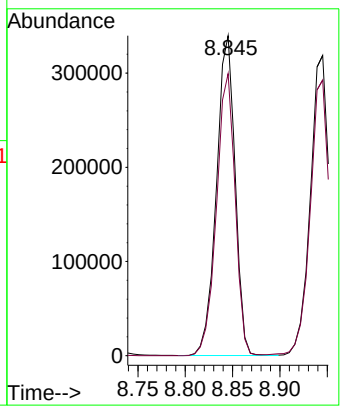




#37
2-Methylnaphthalene
Concen: 50.021 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:142 Resp: 46469

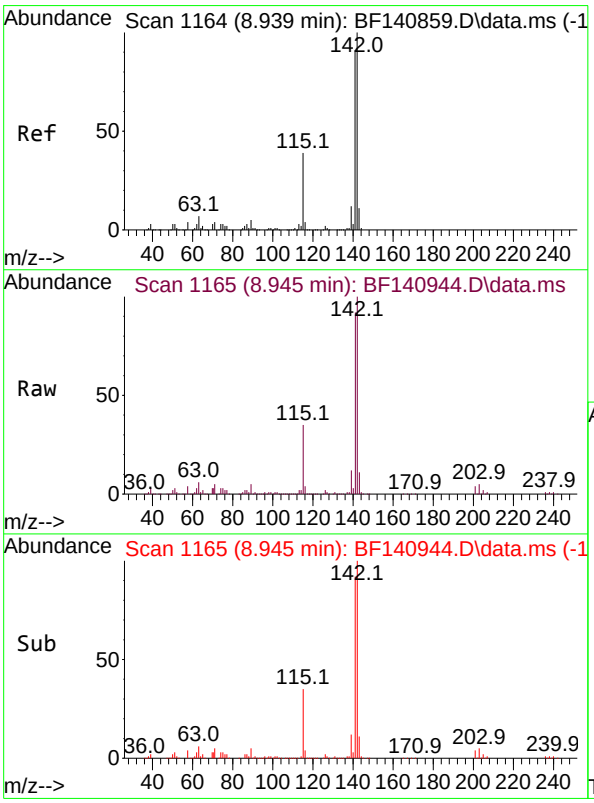
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.0	106.6



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

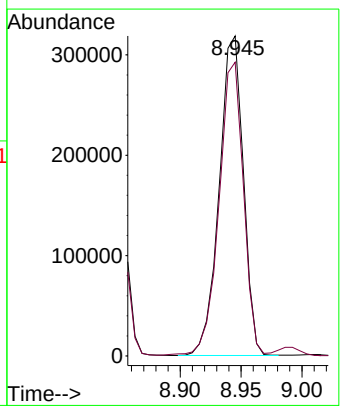
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

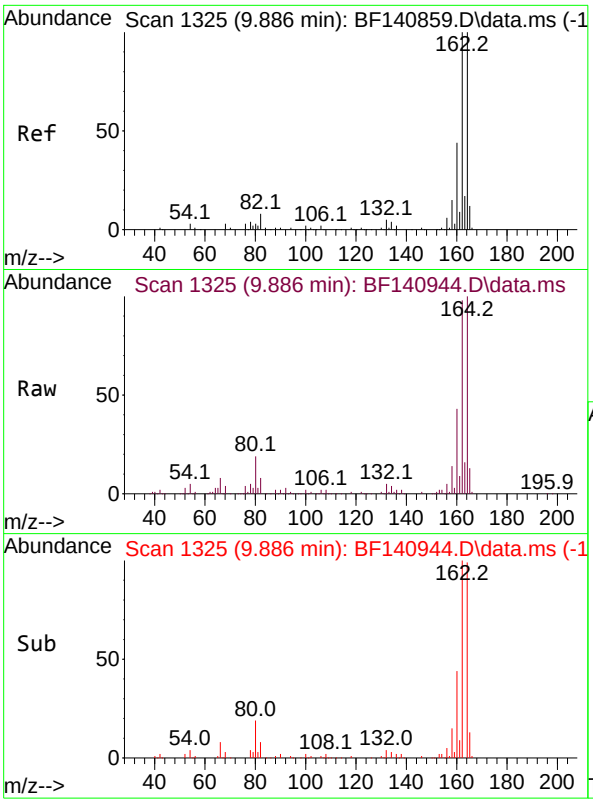


#38
1-Methylnaphthalene
Concen: 47.751 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:142 Resp: 438727

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.0

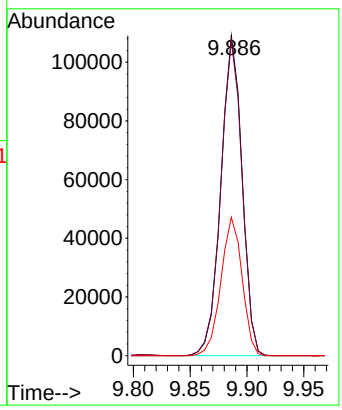




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:164 Resp: 14129

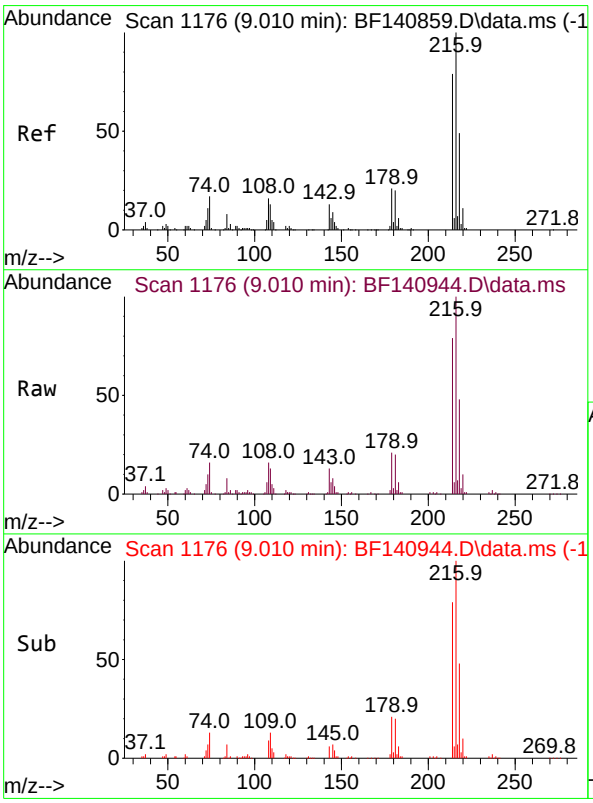
Ion	Ratio	Lower	Upper
164	100		
162	98.5	79.9	119.9
160	43.2	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

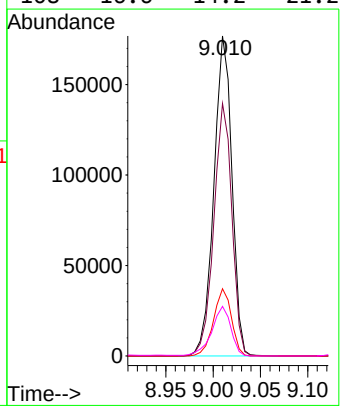
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

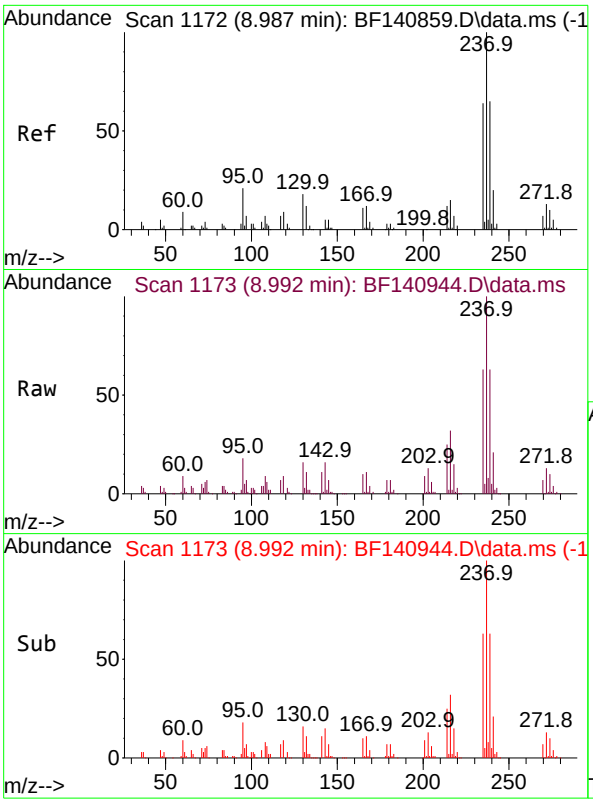


#40
1,2,4,5-Tetrachlorobenzene
Concen: 53.956 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:216 Resp: 234321

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.6	95.4
179	20.8	17.0	25.4
108	16.6	14.2	21.2

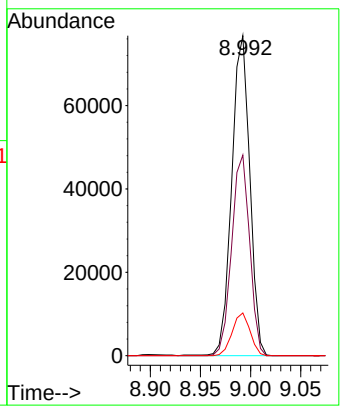




#41
Hexachlorocyclopentadiene
Concen: 68.569 ng
RT: 8.992 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:237 Resp: 9637

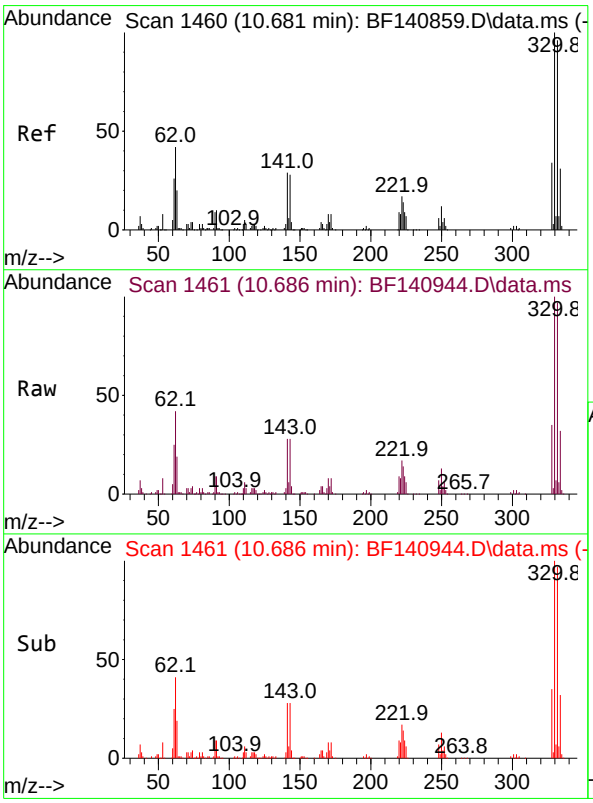
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.7	83.7
272	13.3	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

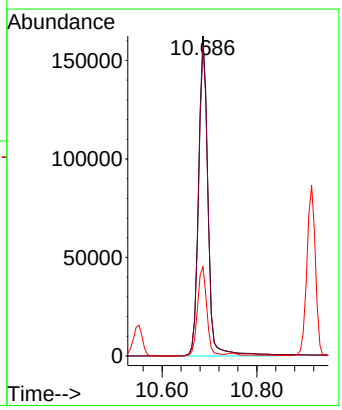
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

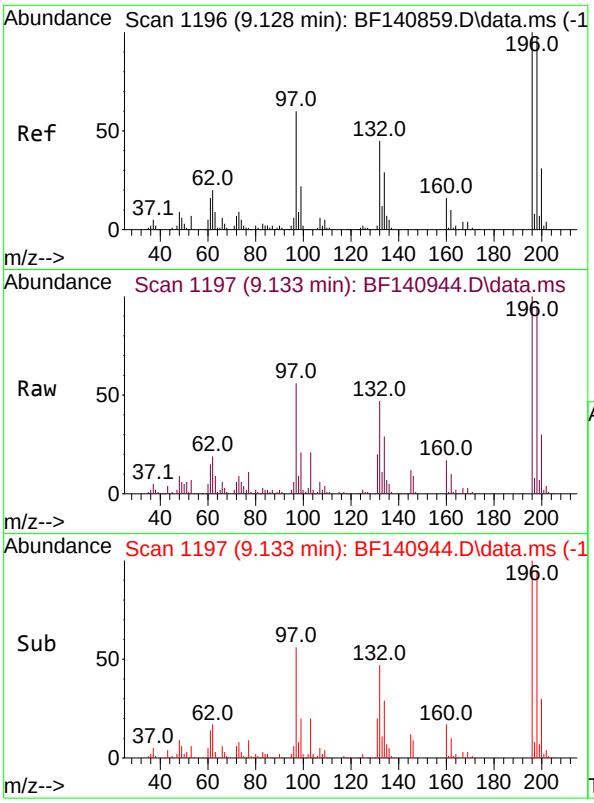


#42
2,4,6-Tribromophenol
Concen: 134.800 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:330 Resp: 225262

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.2	114.4
141	27.4	24.9	37.3

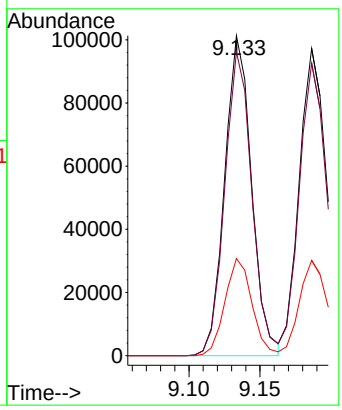




#43
2,4,6-Trichlorophenol
Concen: 50.276 ng
RT: 9.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:196 Resp: 13369

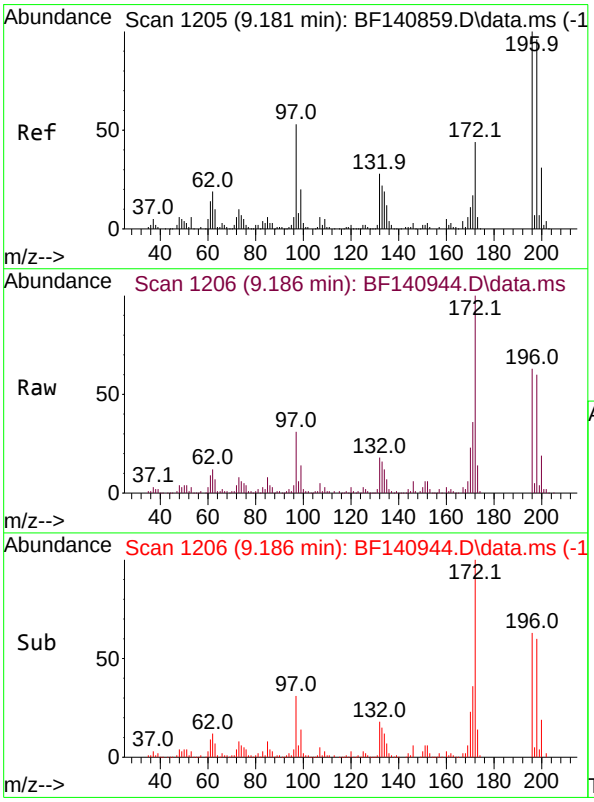
Ion	Ratio	Lower	Upper
196	100		
198	94.9	77.4	116.0
200	30.3	24.5	36.7



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

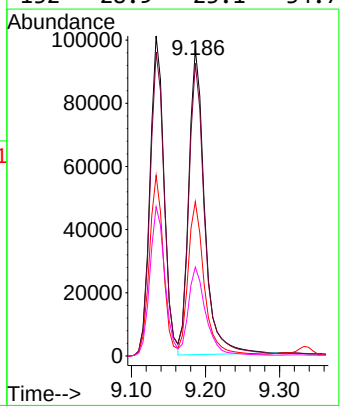
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

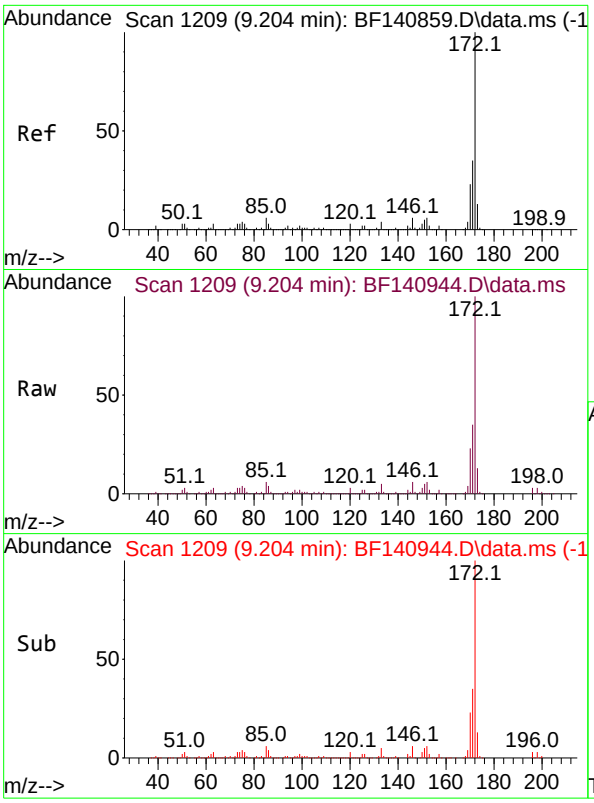


#44
2,4,5-Trichlorophenol
Concen: 49.003 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:196 Resp: 143227

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.2	115.8
97	50.2	42.2	63.4
132	28.9	23.1	34.7

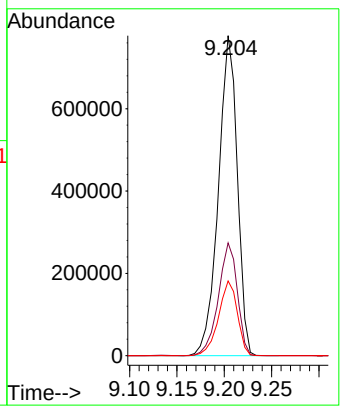




#45
2-Fluorobiphenyl
Concen: 105.274 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:172 Resp: 108188

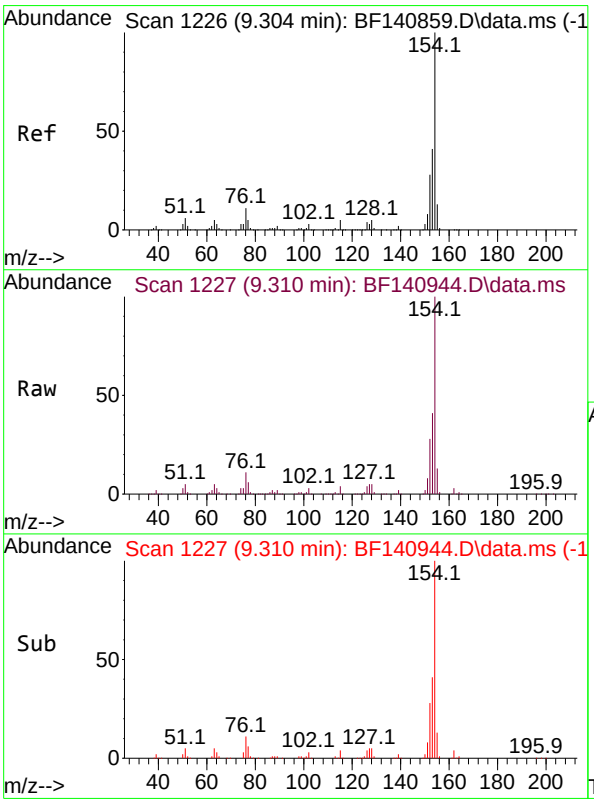
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.4	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

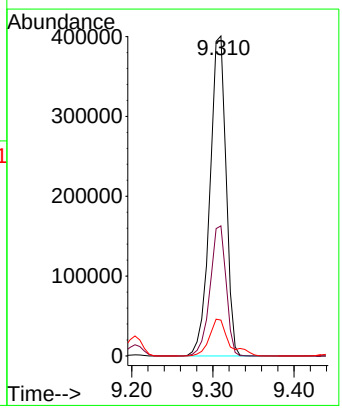
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

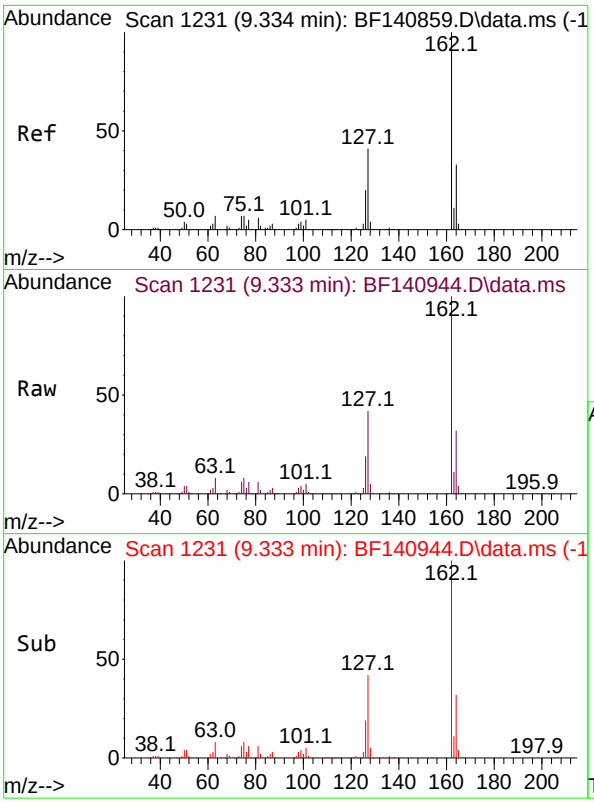


#46
1,1'-Biphenyl
Concen: 49.168 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:154 Resp: 552413

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.8	60.8
76	11.2	0.0	31.0

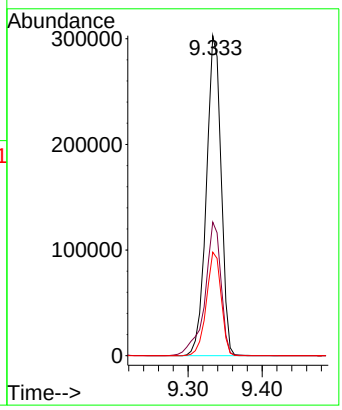




#47
2-Chloronaphthalene
Concen: 48.592 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

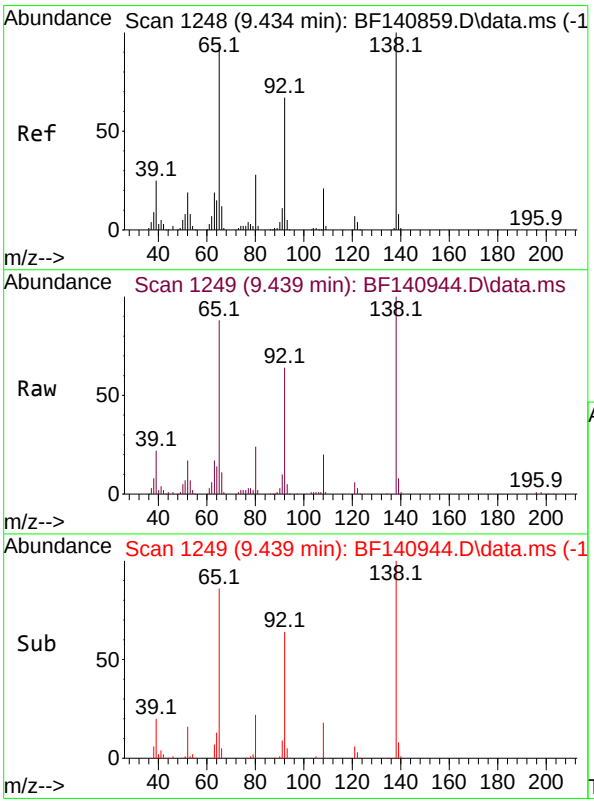
Tgt Ion:162 Resp: 41765

Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.5	50.3
164	32.4	26.2	39.2



Instrument :
BNA_F
ClientSampleId :
PB165705BS

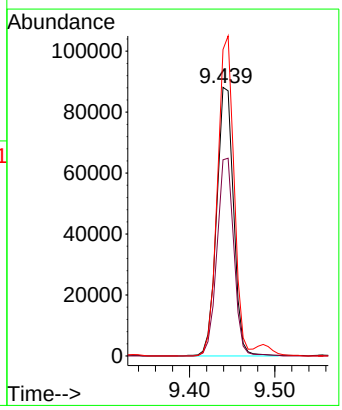
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

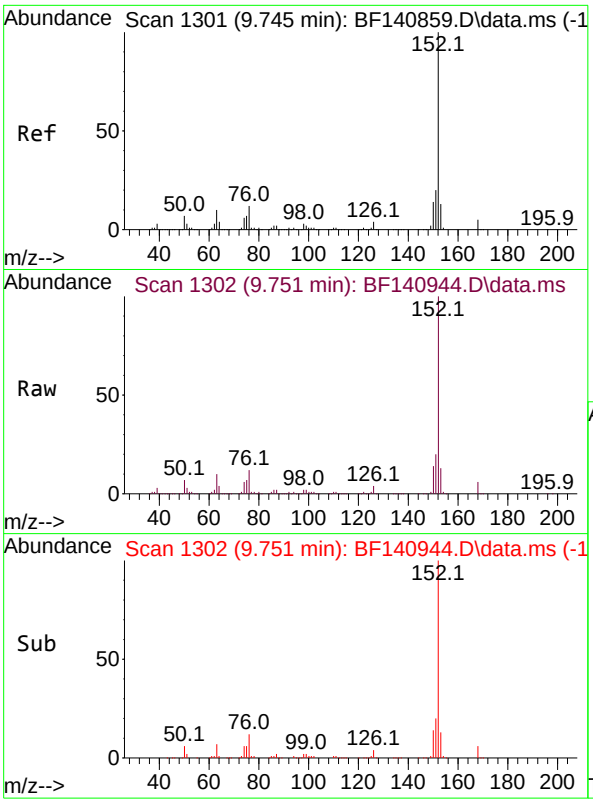


#48
2-Nitroaniline
Concen: 46.835 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 65 Resp: 121577

Ion	Ratio	Lower	Upper
65	100		
92	73.0	56.3	84.5
138	114.0	83.8	125.6

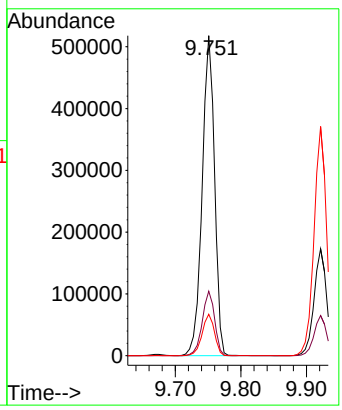




#49
Acenaphthylene
Concen: 53.969 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:152 Resp: 68169

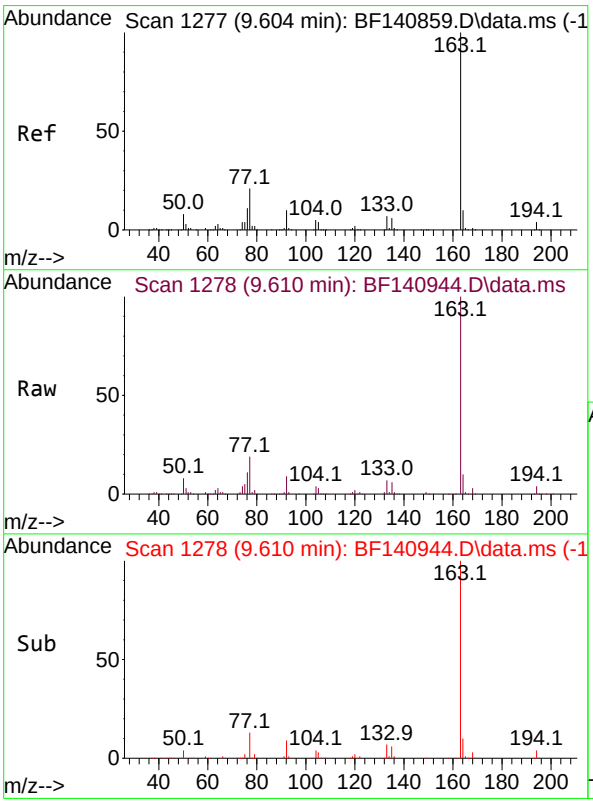
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.0	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

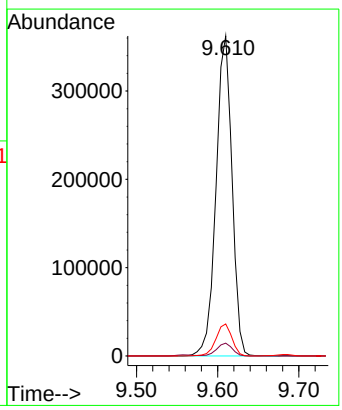
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

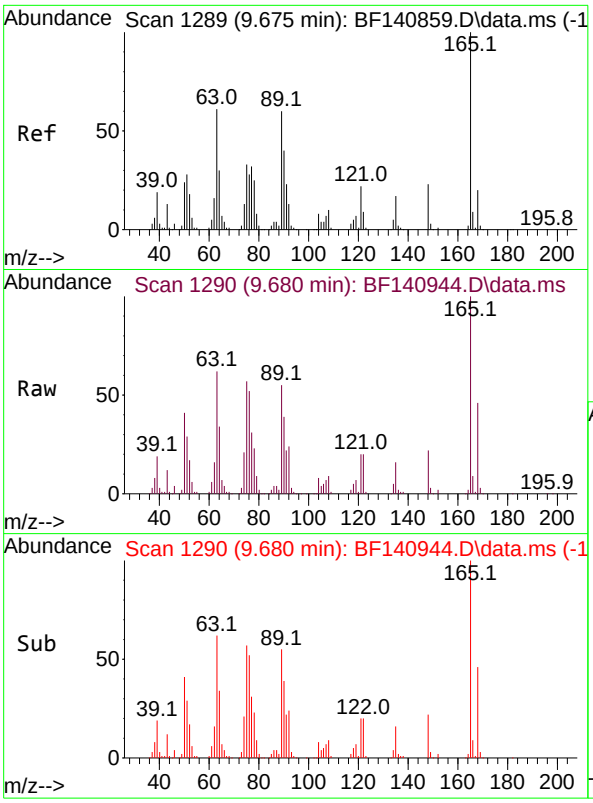


#50
Dimethylphthalate
Concen: 49.797 ng
RT: 9.610 min Scan# 1278
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:163 Resp: 496054

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.0	8.1	12.1

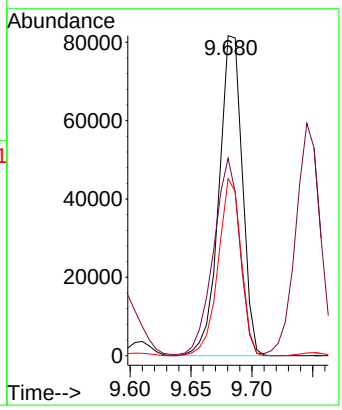




#51
2,6-Dinitrotoluene
Concen: 47.820 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:165 Resp: 10889

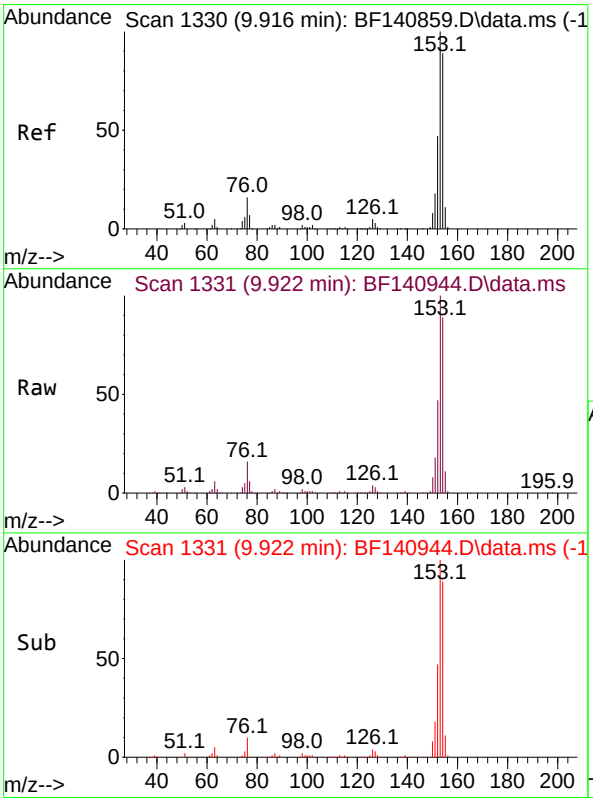
Ion	Ratio	Lower	Upper
165	100		
63	61.7	49.7	74.5
89	55.3	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

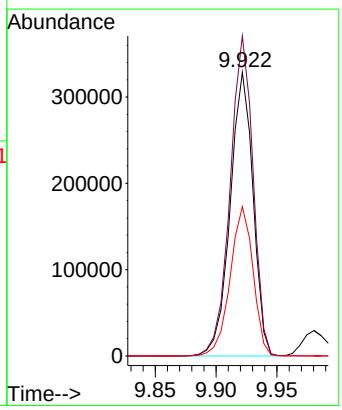
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

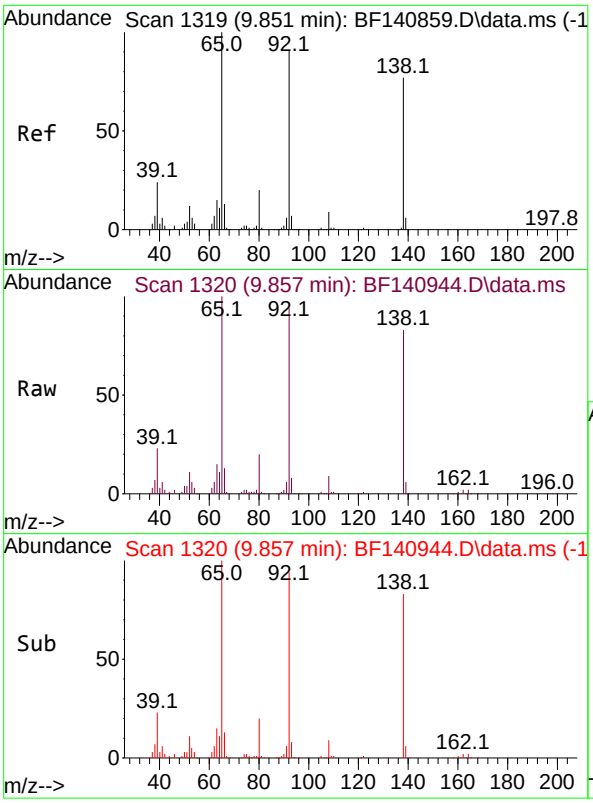


#52
Acenaphthene
Concen: 53.351 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:154 Resp: 430468

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.9	134.9
152	52.6	42.6	63.8

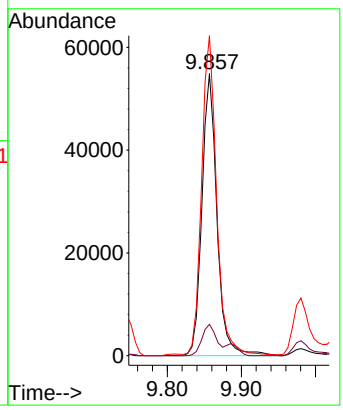




#53
3-Nitroaniline
Concen: 34.184 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

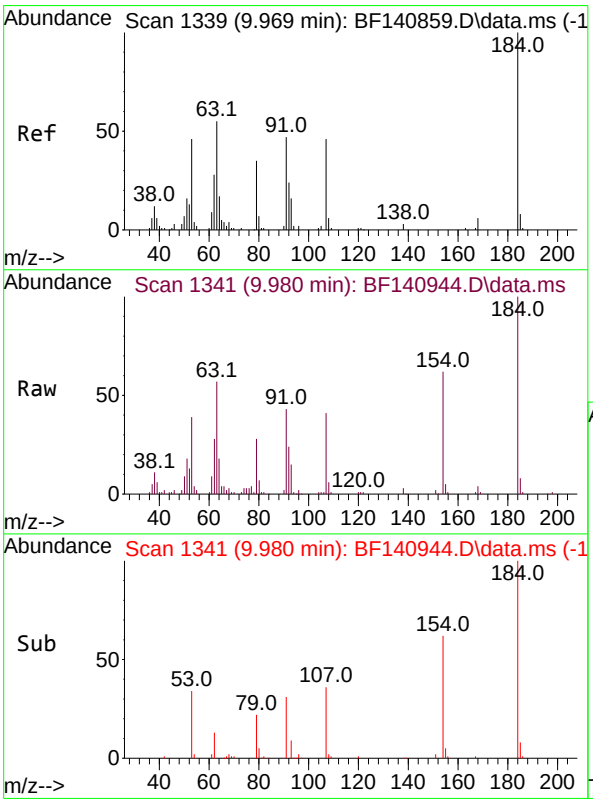
Tgt Ion:138 Resp: 7725

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	113.4	95.5	143.3



Instrument :
BNA_F
ClientSampleId :
PB165705BS

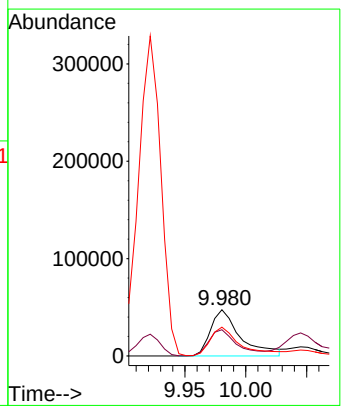
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

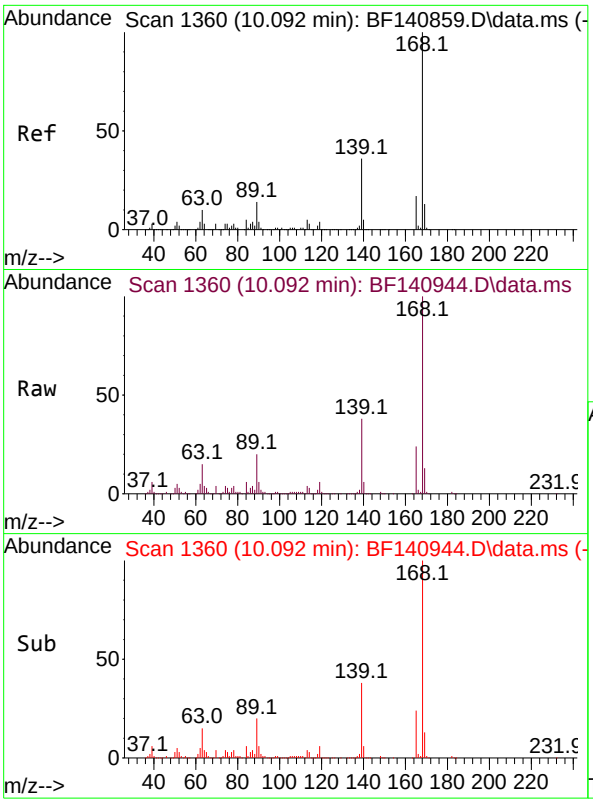


#54
2,4-Dinitrophenol
Concen: 73.697 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.011 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:184 Resp: 81264

Ion	Ratio	Lower	Upper
184	100		
63	56.8	51.6	77.4
154	62.1	56.1	84.1

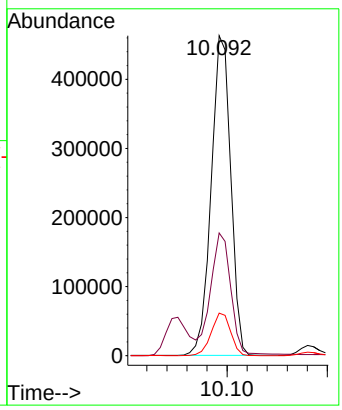




#55
Dibenzofuran
Concen: 49.905 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

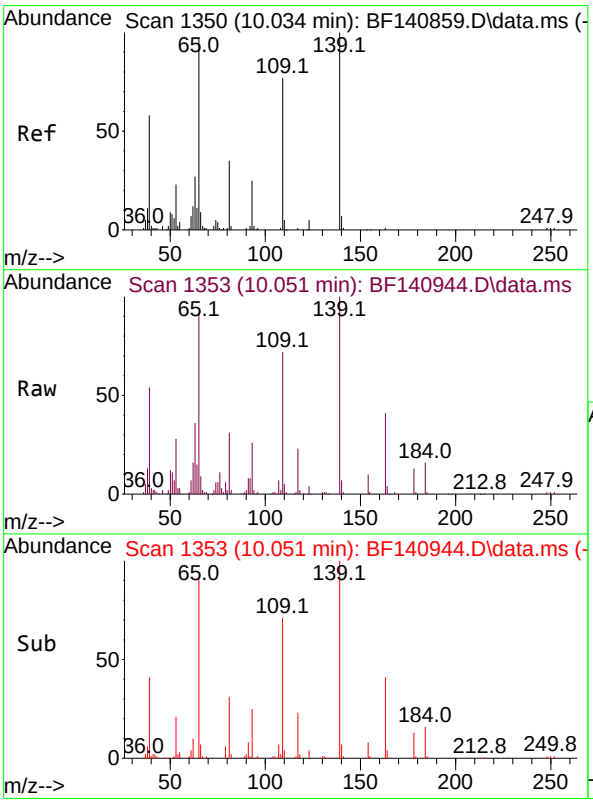
Tgt Ion:168 Resp: 623949

Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.1	46.7
169	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

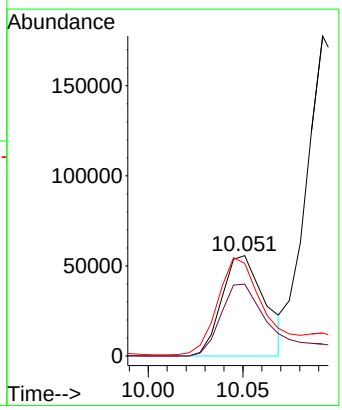
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

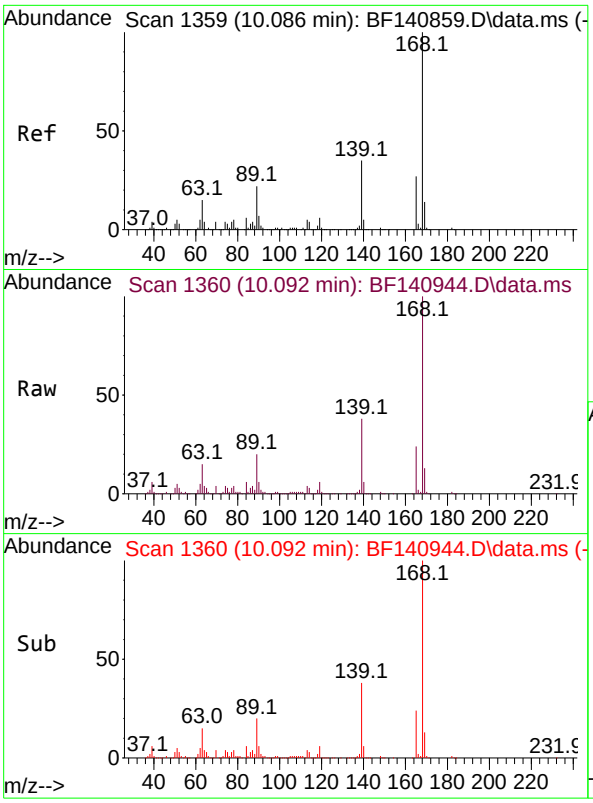


#56
4-Nitrophenol
Concen: 72.611 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:139 Resp: 87740

Ion	Ratio	Lower	Upper
139	100		
109	71.7	56.7	96.7
65	92.4	78.1	118.1

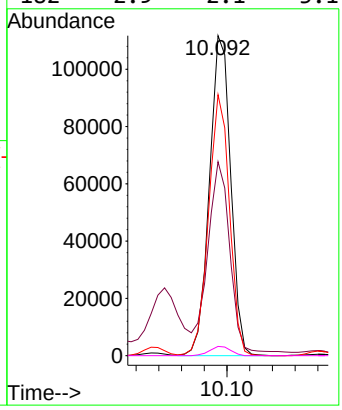




#57
2,4-Dinitrotoluene
Concen: 48.383 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:165 Resp: 14496

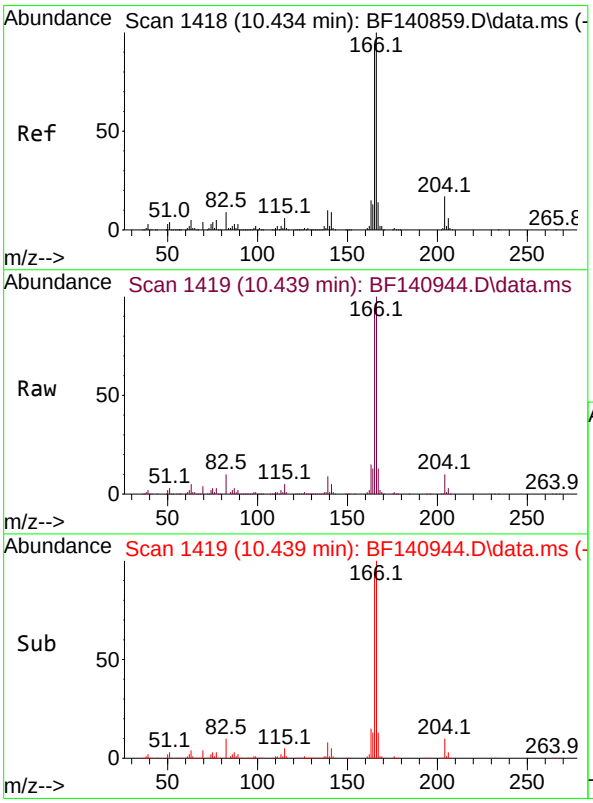
Ion	Ratio	Lower	Upper
165	100		
63	60.6	49.3	73.9
89	81.6	66.2	99.4
182	2.9	2.1	3.1



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

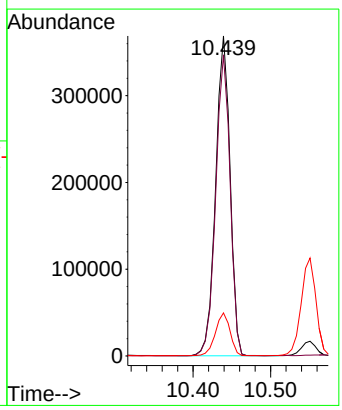
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

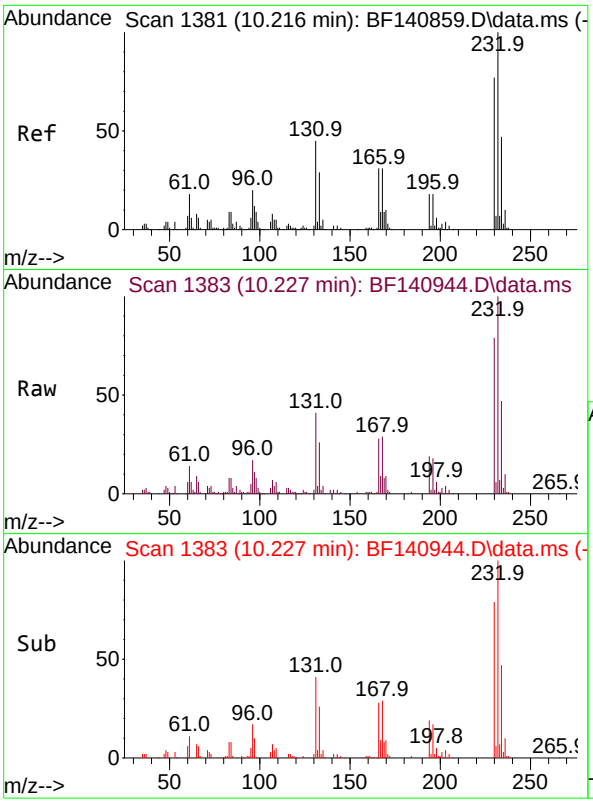


#58
Fluorene
Concen: 46.262 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:166 Resp: 477180

Ion	Ratio	Lower	Upper
166	100		
165	94.1	75.1	112.7
167	13.5	11.1	16.7

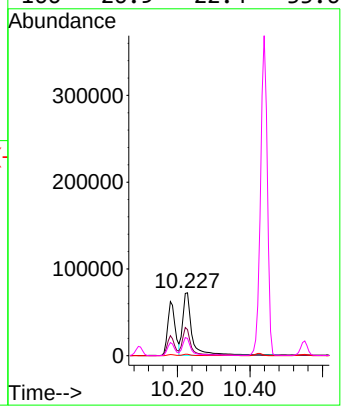




#59
2,3,4,6-Tetrachlorophenol
Concen: 53.557 ng
RT: 10.227 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:232 Resp: 12755

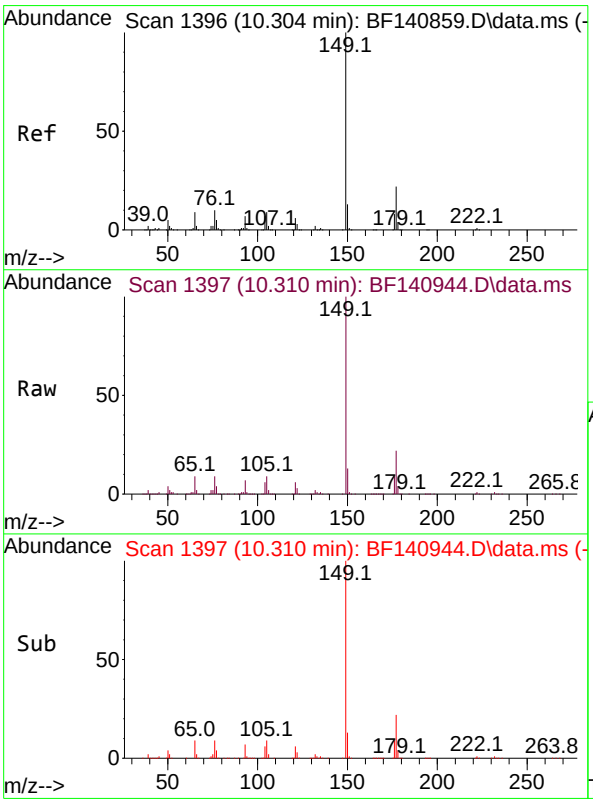
Ion	Ratio	Lower	Upper
232	100		
131	39.3	35.1	52.7
130	1.9	1.8	2.8
166	26.9	22.4	33.6



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

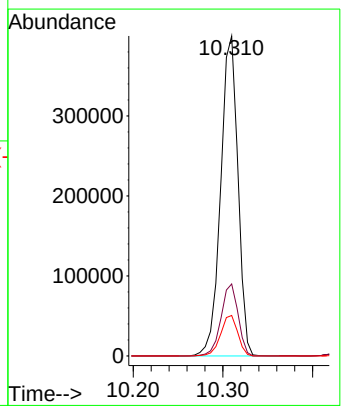
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

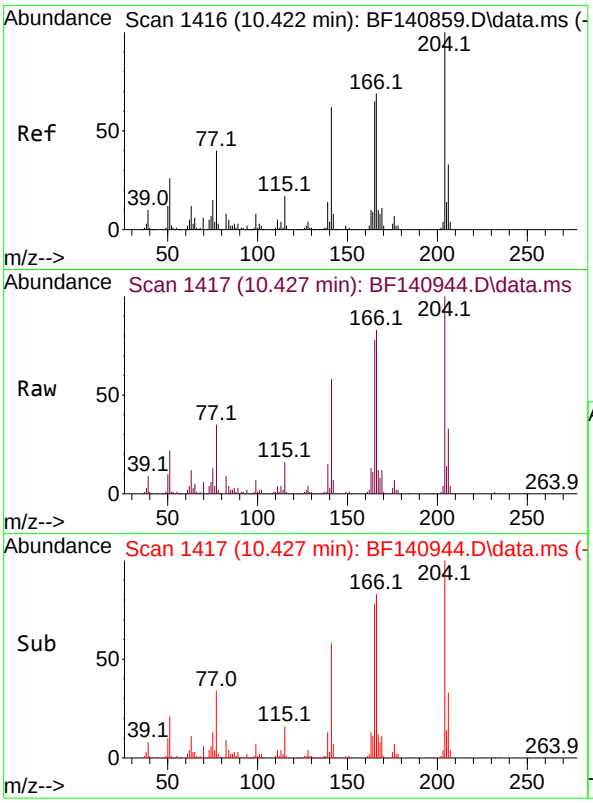


#60
Diethylphthalate
Concen: 51.715 ng
RT: 10.310 min Scan# 1397
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 534197

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.2	25.8
150	12.7	10.1	15.1

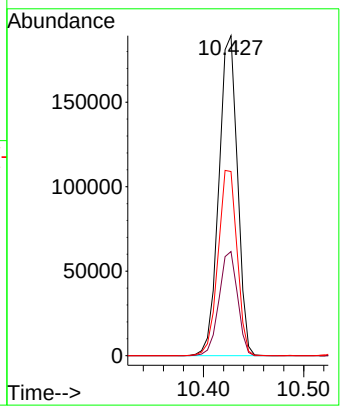




#61
4-Chlorophenyl-phenylether
Concen: 47.046 ng
RT: 10.427 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:204 Resp: 24375

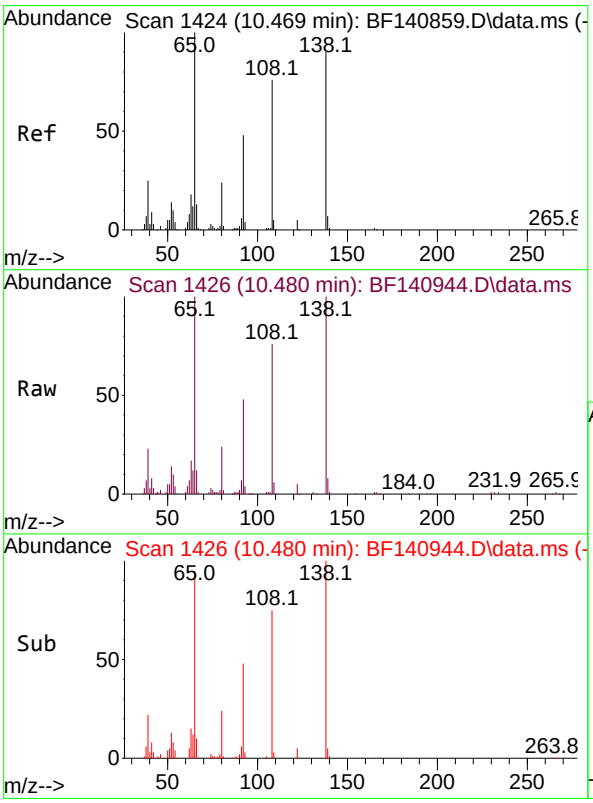
Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.5	39.7
141	57.6	50.0	75.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

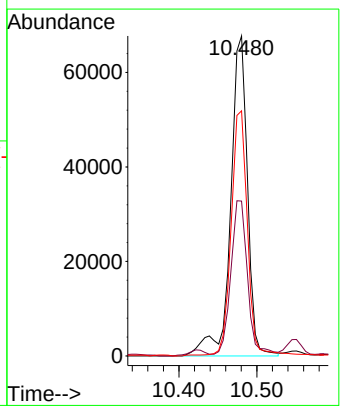
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

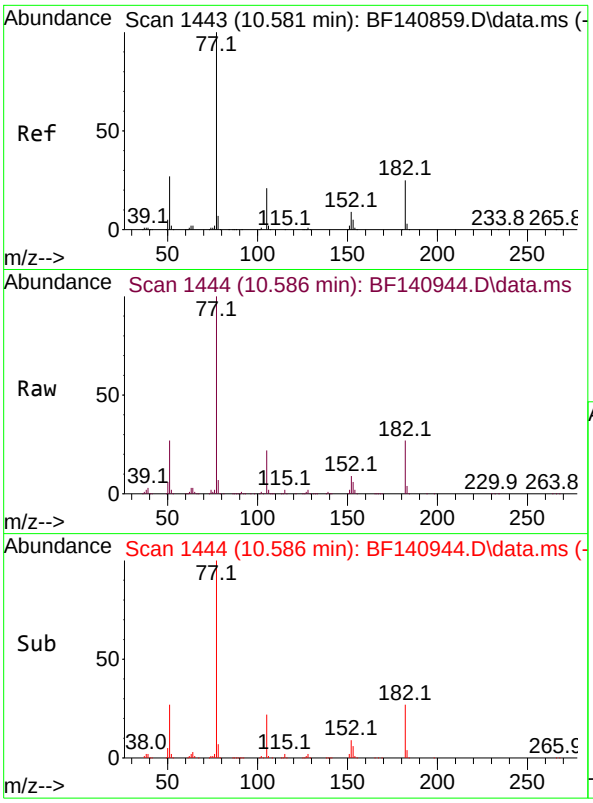


#62
4-Nitroaniline
Concen: 43.167 ng m
RT: 10.480 min Scan# 1426
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:138 Resp: 101945

Ion	Ratio	Lower	Upper
138	100		
92	48.4	32.6	72.6
108	76.6	64.1	104.1

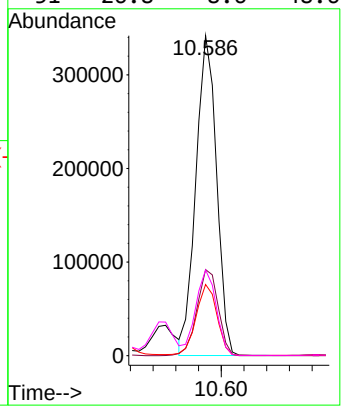




#63
Azobenzene
Concen: 44.427 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 77 Resp: 43143

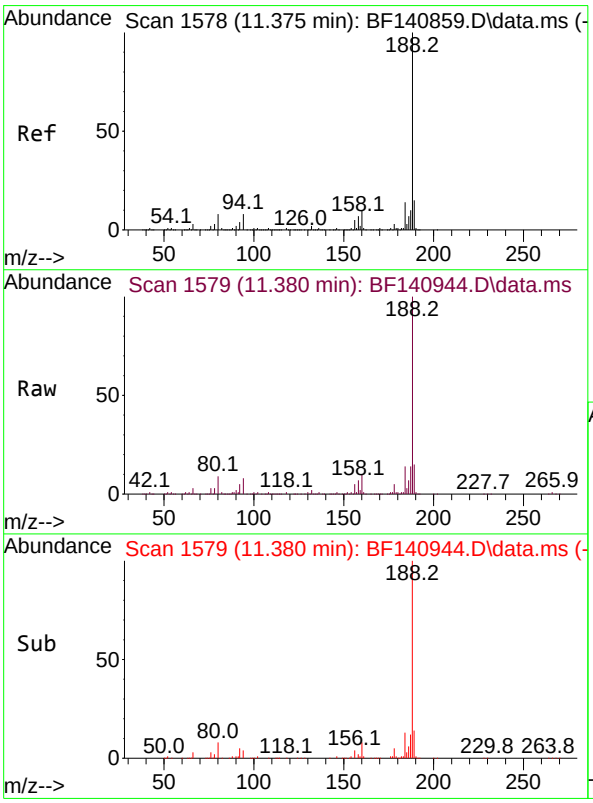
Ion	Ratio	Lower	Upper
77	100		
182	26.9	4.5	44.5
105	22.2	0.9	40.9
51	26.8	8.6	48.6



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

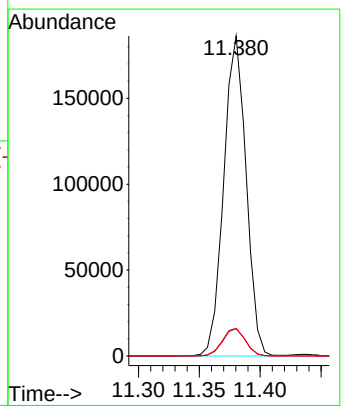
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

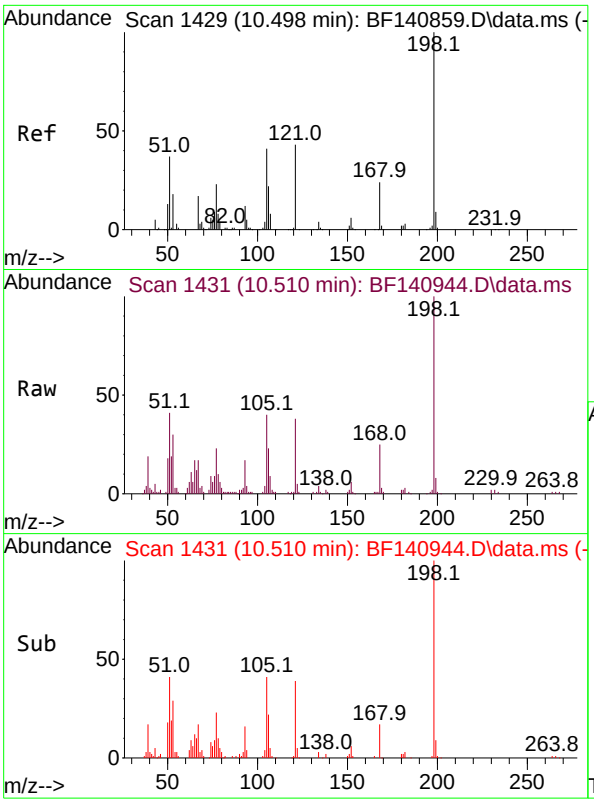


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:188 Resp: 237962

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	8.7	6.8	10.2

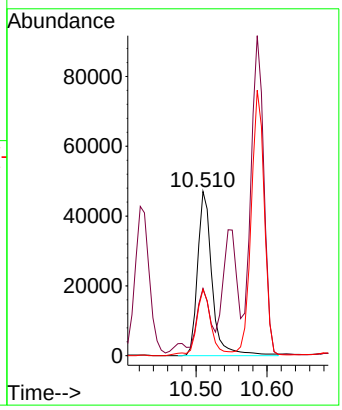




#65
4,6-Dinitro-2-methylphenol
Concen: 49.484 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:198 Resp: 6672

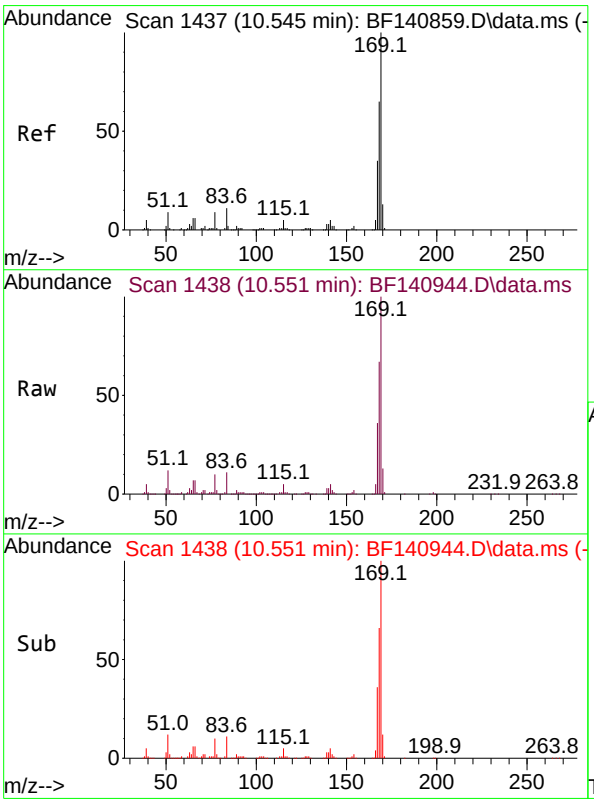
Ion	Ratio	Lower	Upper
198	100		
51	40.9	24.4	64.4
105	40.4	22.1	62.1



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

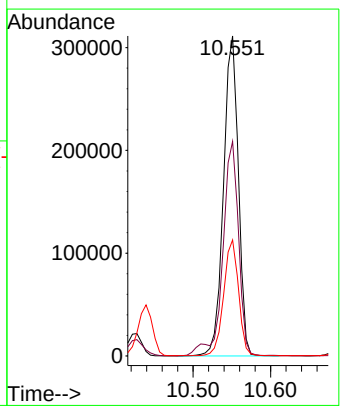
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

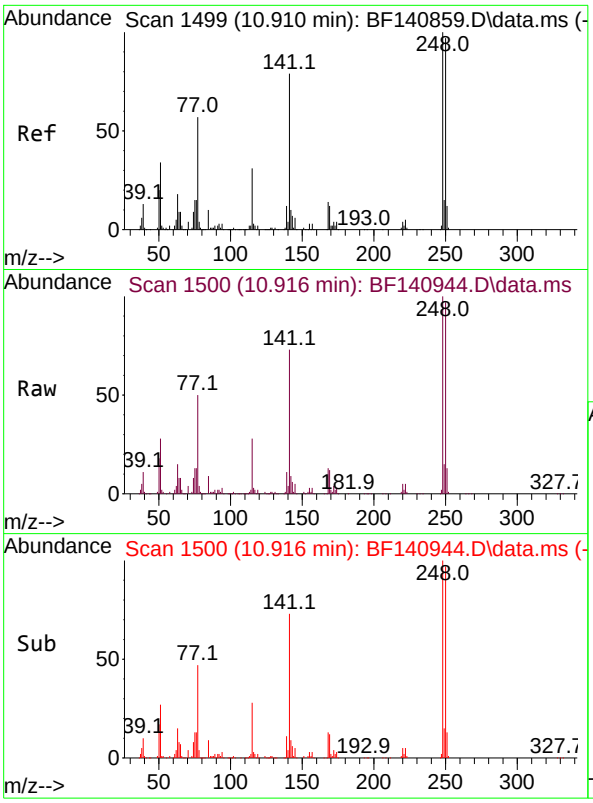


#66
n-Nitrosodiphenylamine
Concen: 56.716 ng
RT: 10.551 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:169 Resp: 414949

Ion	Ratio	Lower	Upper
169	100		
168	67.1	53.4	80.0
167	36.3	28.3	42.5

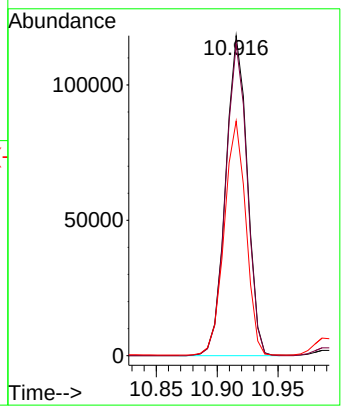




#67
4-Bromophenyl-phenylether
Concen: 55.009 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:248 Resp: 14644

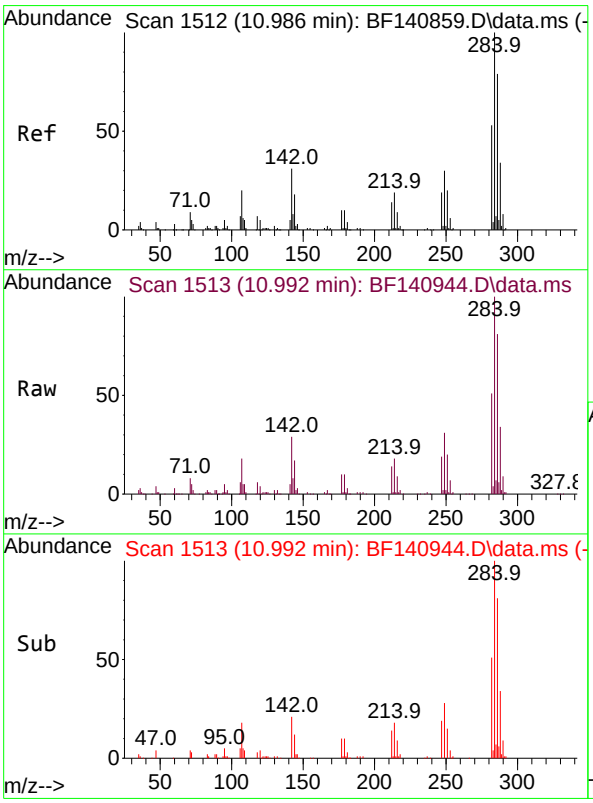
Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.4	116.2
141	73.3	62.9	94.3



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations APPROVED

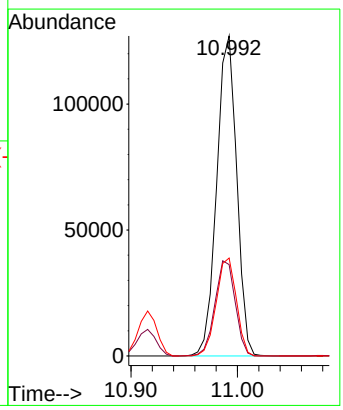
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

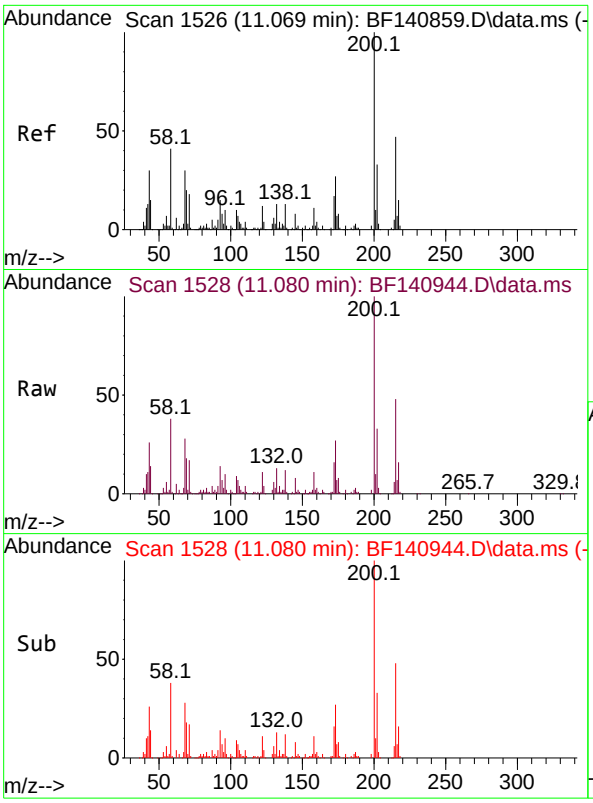


#68
Hexachlorobenzene
Concen: 54.744 ng
RT: 10.992 min Scan# 1513
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:284 Resp: 165233

Ion	Ratio	Lower	Upper
284	100		
142	28.6	24.6	36.8
249	30.6	24.3	36.5





#69
Atrazine
Concen: 65.919 ng
RT: 11.080 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

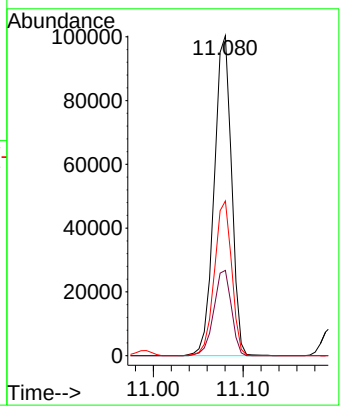
Tgt Ion:200 Resp: 13469

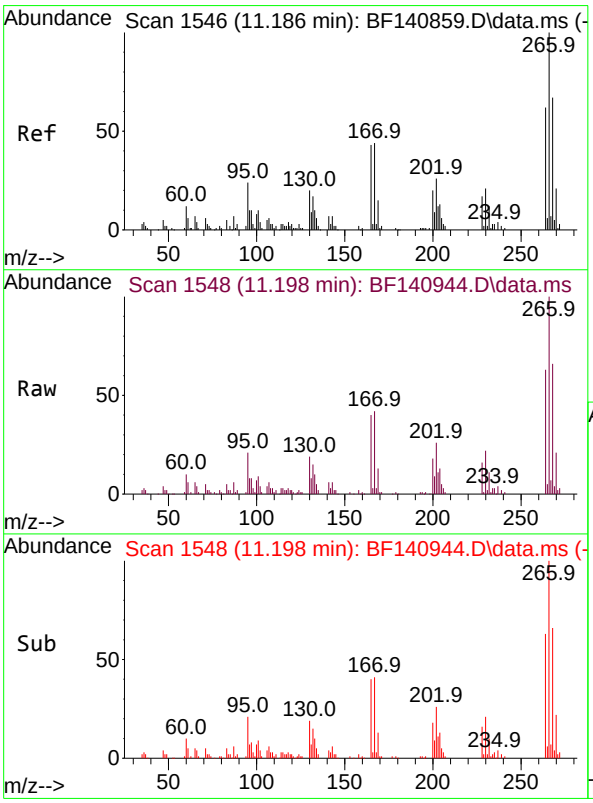
Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.6	46.6
215	48.4	26.7	66.7

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

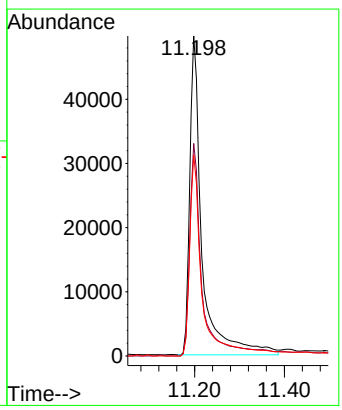


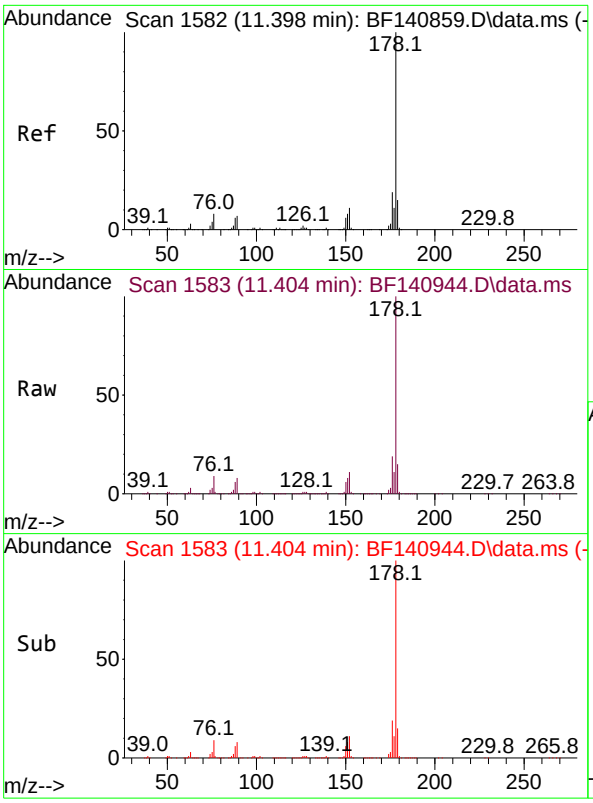


#70
Pentachlorophenol
Concen: 85.812 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:266 Resp: 94695

Ion	Ratio	Lower	Upper
266	100		
268	66.4	54.0	81.0
264	62.9	49.4	74.2

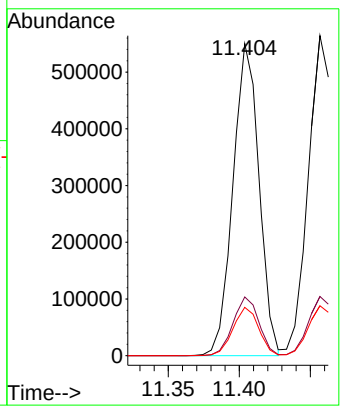




#71
Phenanthrene
Concen: 57.320 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:178 Resp: 70142

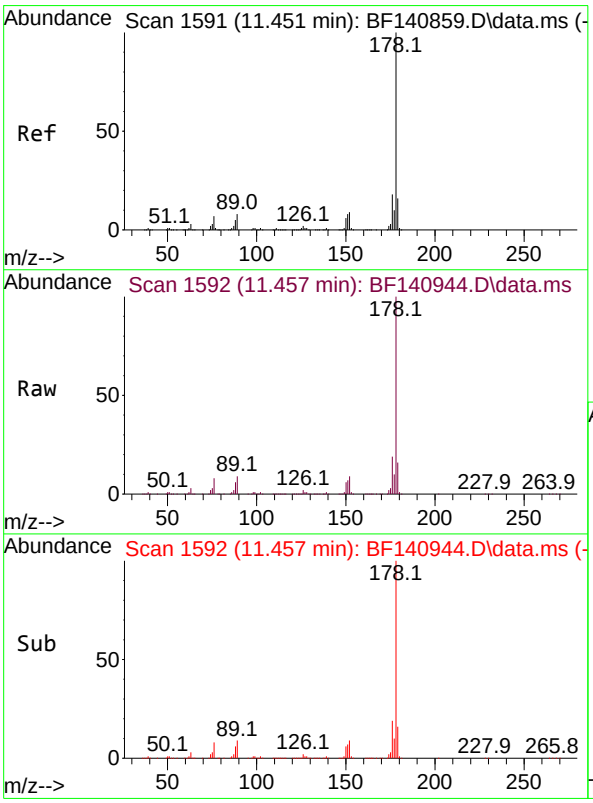
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.1	18.1



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

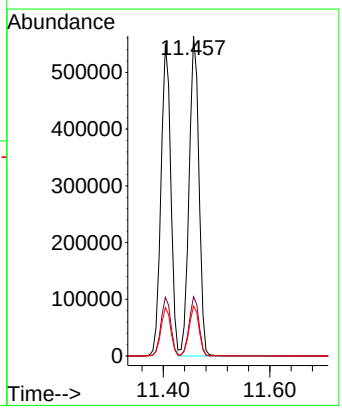
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

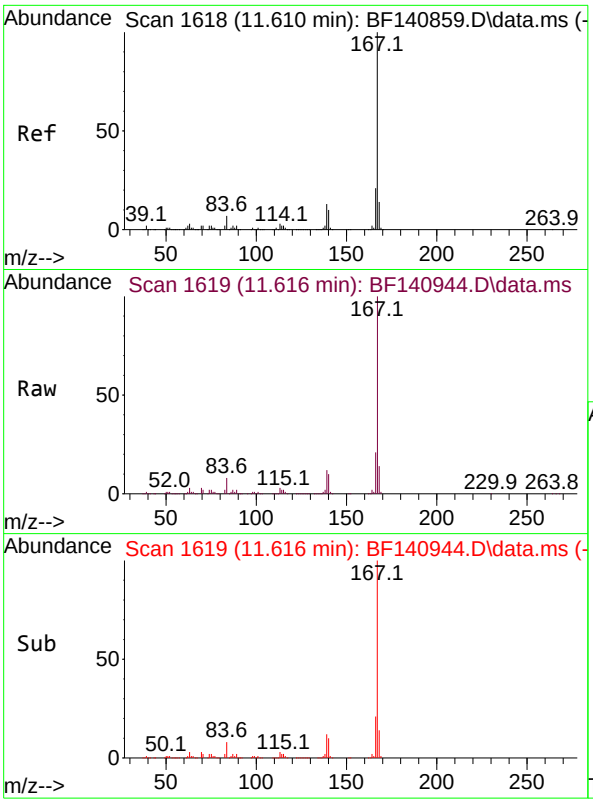


#72
Anthracene
Concen: 60.212 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:178 Resp: 725617

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.6	12.6	18.8

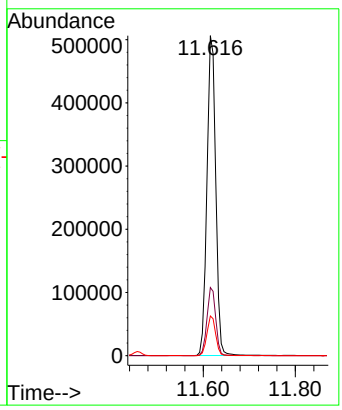




#73
Carbazole
Concen: 57.096 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:167 Resp: 673948

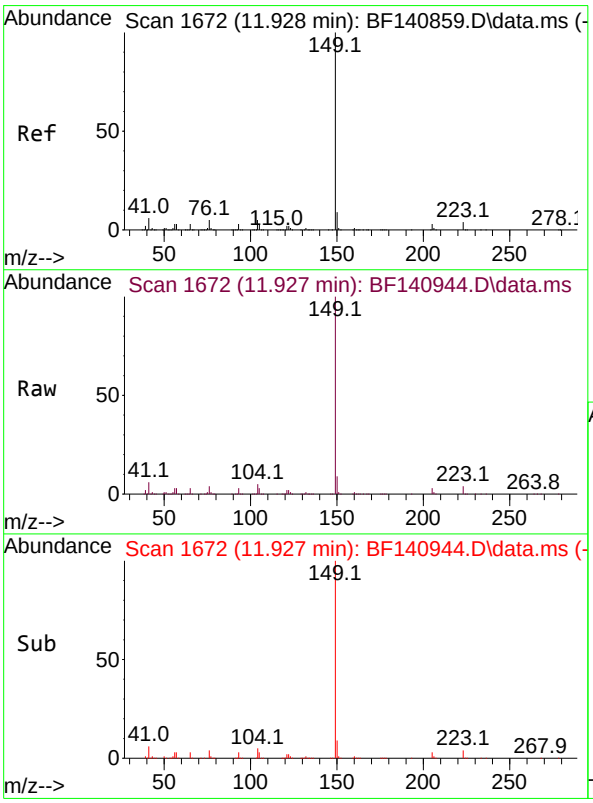
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	12.4	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

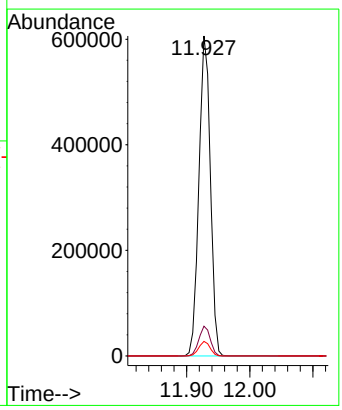
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

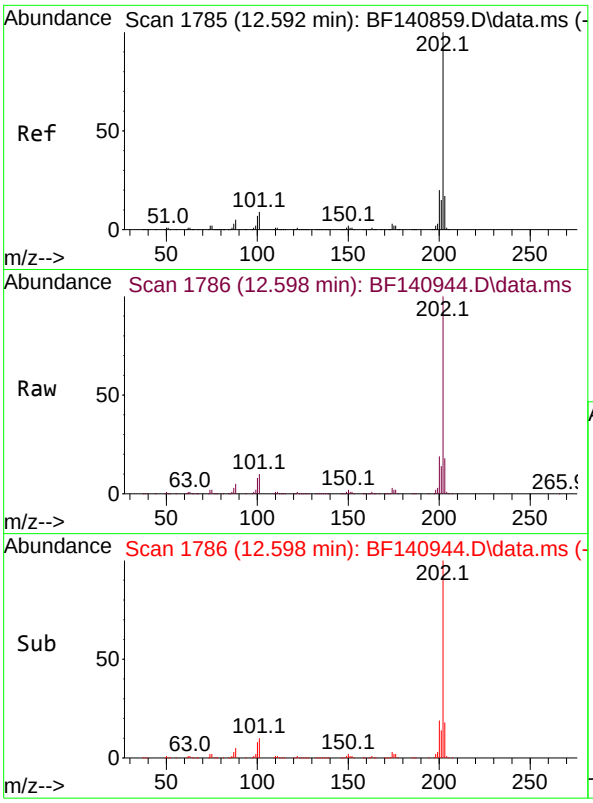


#74
Di-n-butylphthalate
Concen: 55.119 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 763567

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.5	11.3
104	4.6	3.8	5.8

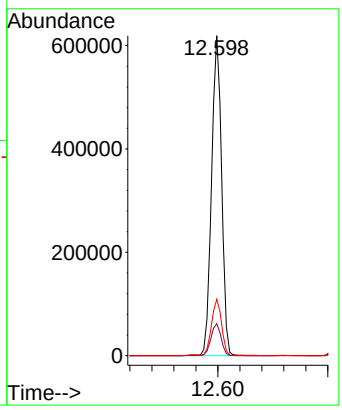




#75
Fluoranthene
Concen: 55.813 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:202 Resp: 78657

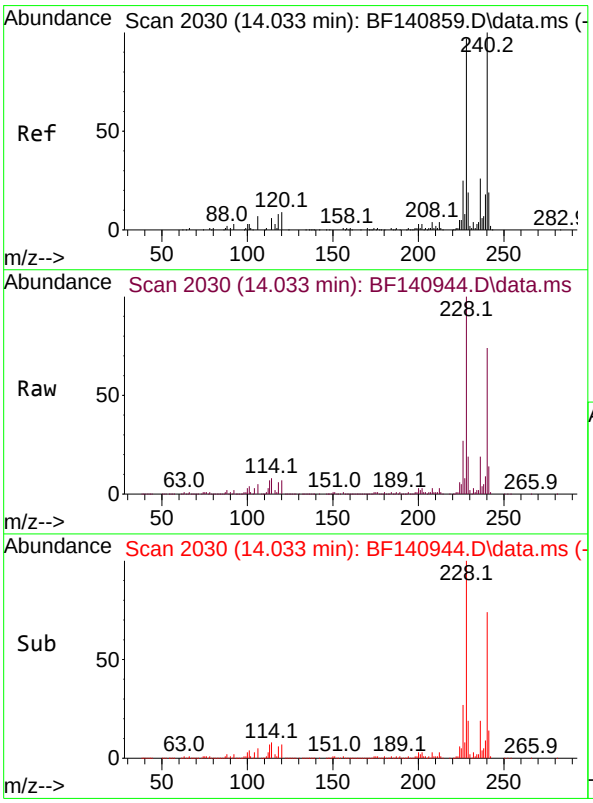
Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	29.3
203	17.6	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

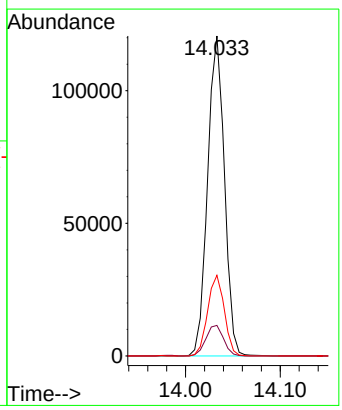
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

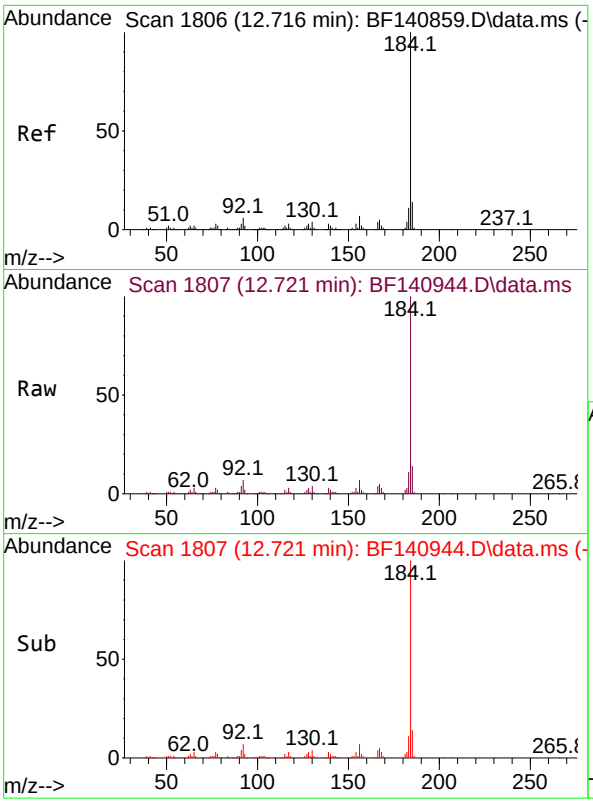


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:240 Resp: 149220

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.6	11.4
236	25.2	20.5	30.7

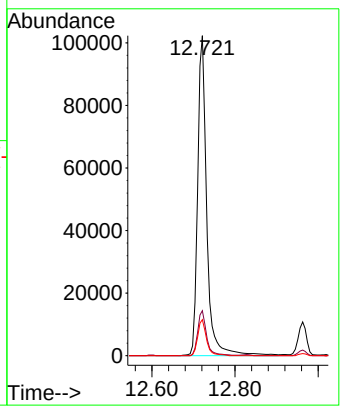




#77
Benzidine
Concen: 51.217 ng
RT: 12.721 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:184 Resp: 15598

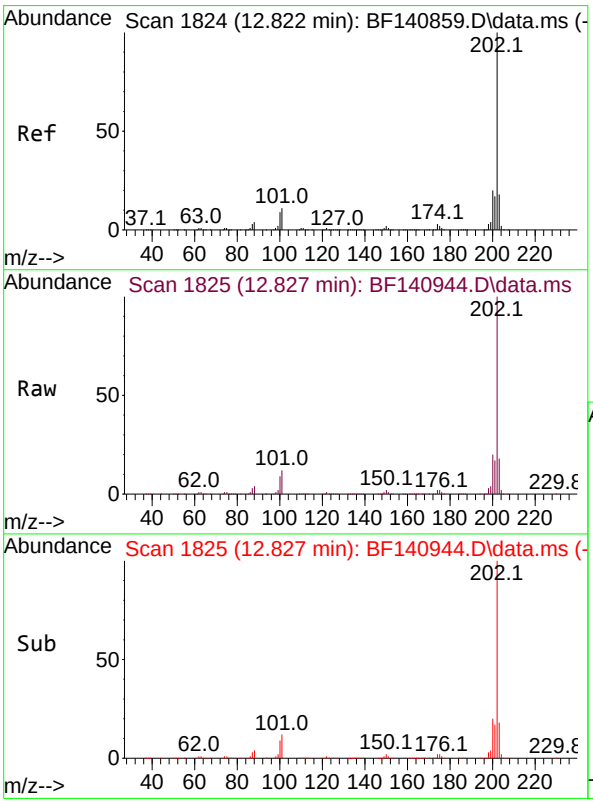
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.1	16.7
183	11.2	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

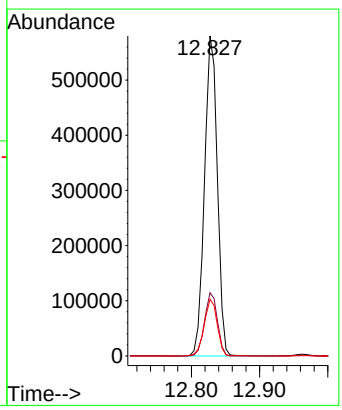
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

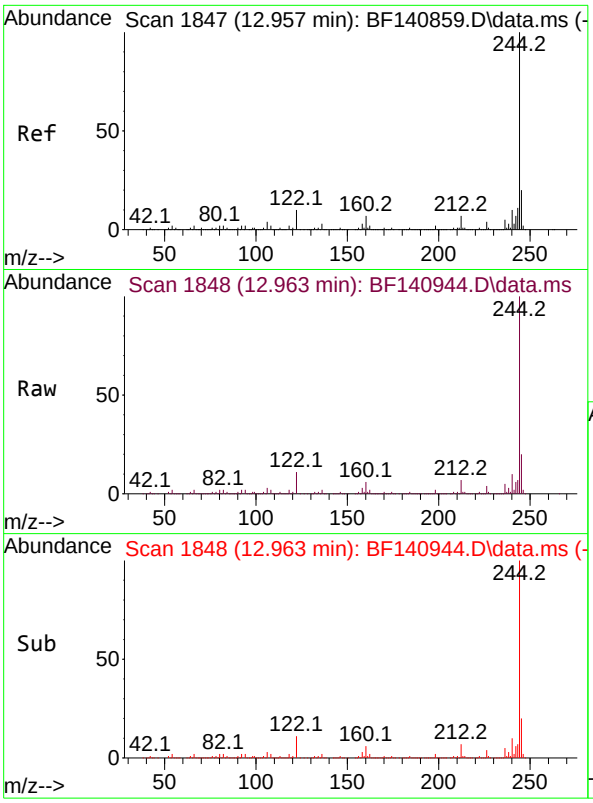


#78
Pyrene
Concen: 57.177 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:202 Resp: 758712

Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.1	24.1
203	17.7	14.2	21.4

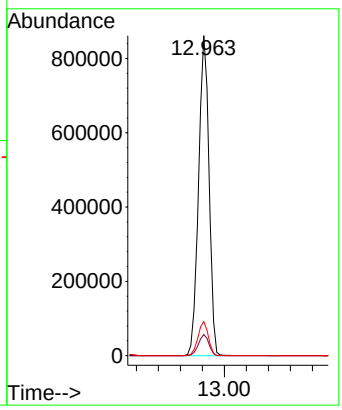




#79
Terphenyl-d14
Concen: 120.524 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:244 Resp: 114052

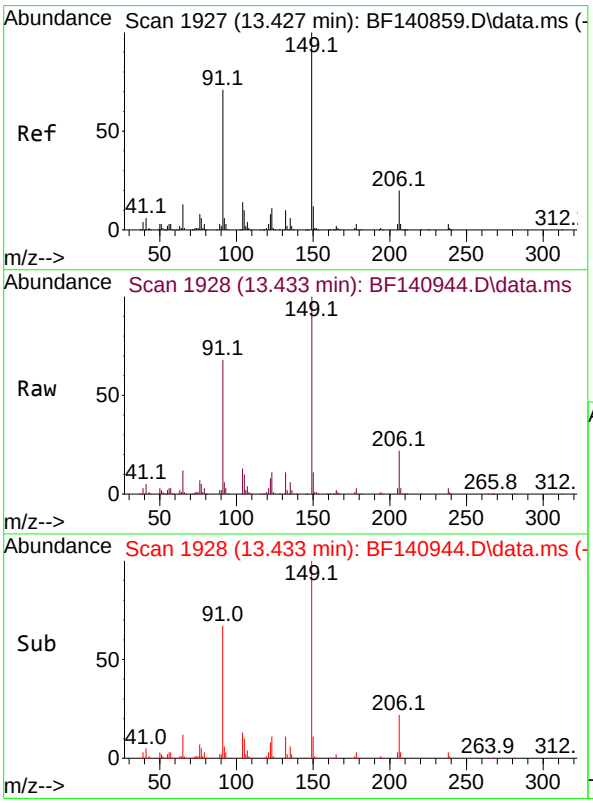
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.6	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

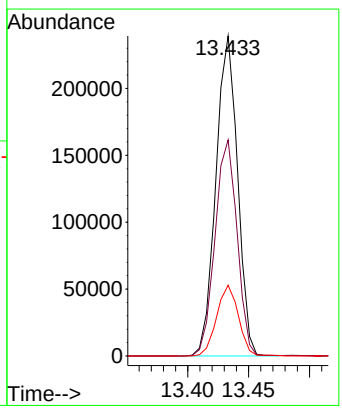
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

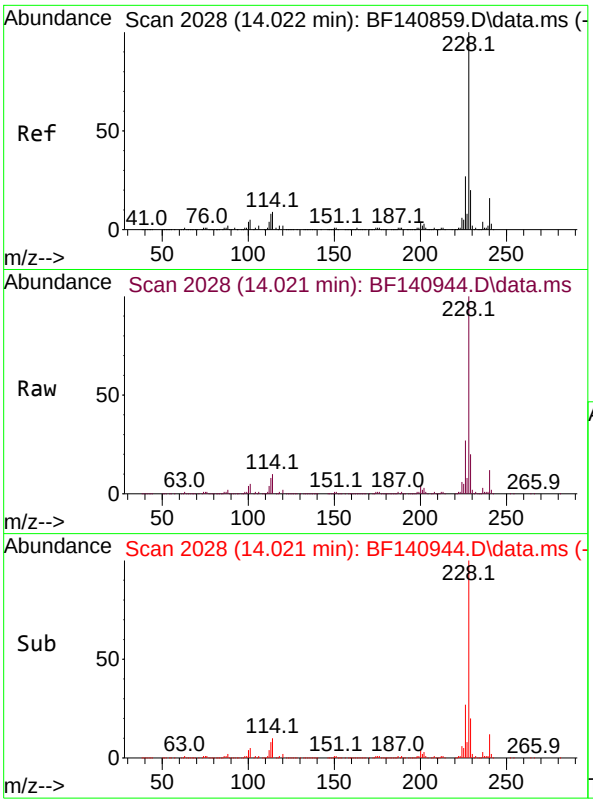


#80
Butylbenzylphthalate
Concen: 60.922 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 297455

Ion	Ratio	Lower	Upper
149	100		
91	67.5	56.7	85.1
206	22.1	16.4	24.6

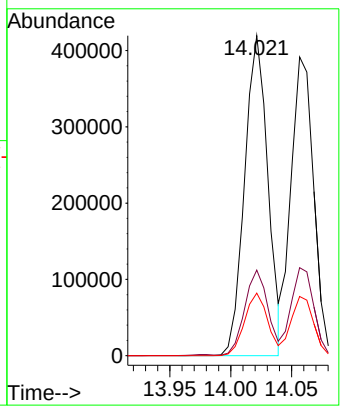




#81
Benzo(a)anthracene
Concen: 52.753 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

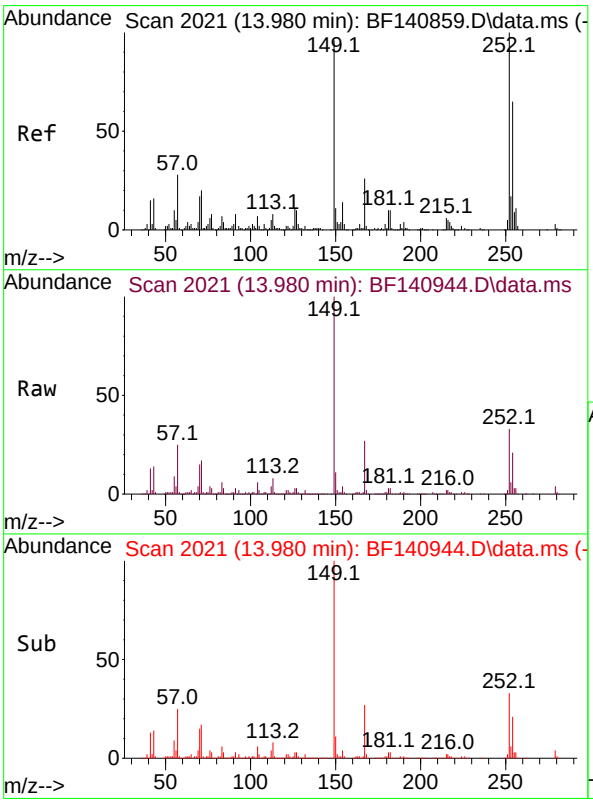
Tgt Ion:228 Resp: 55790

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.6	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
PB165705BS

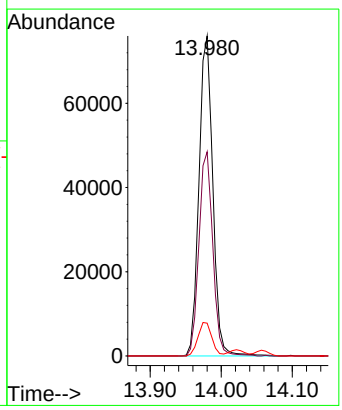
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

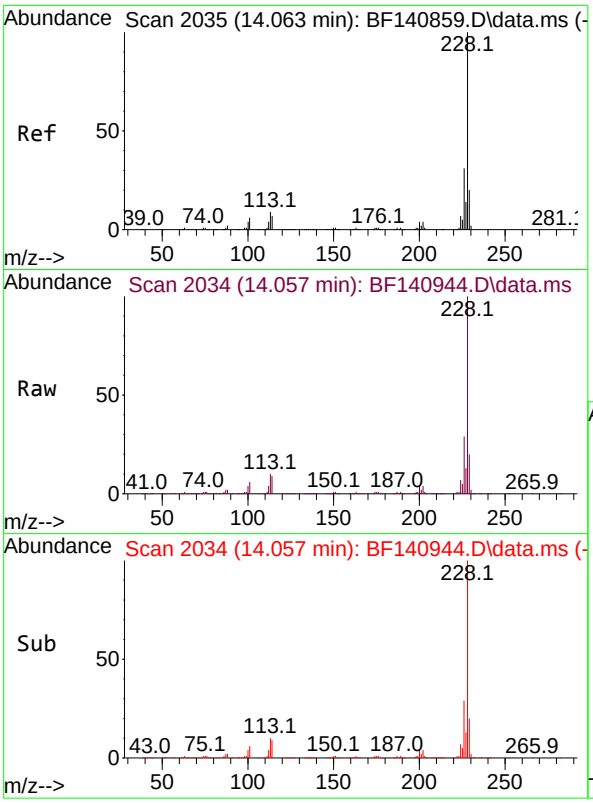


#82
3,3'-Dichlorobenzidine
Concen: 32.279 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 102996

Ion	Ratio	Lower	Upper
252	100		
254	63.8	52.3	78.5
126	10.3	8.4	12.6

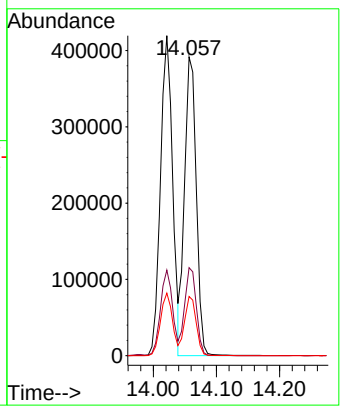




#83
Chrysene
Concen: 52.875 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:228 Resp: 50849

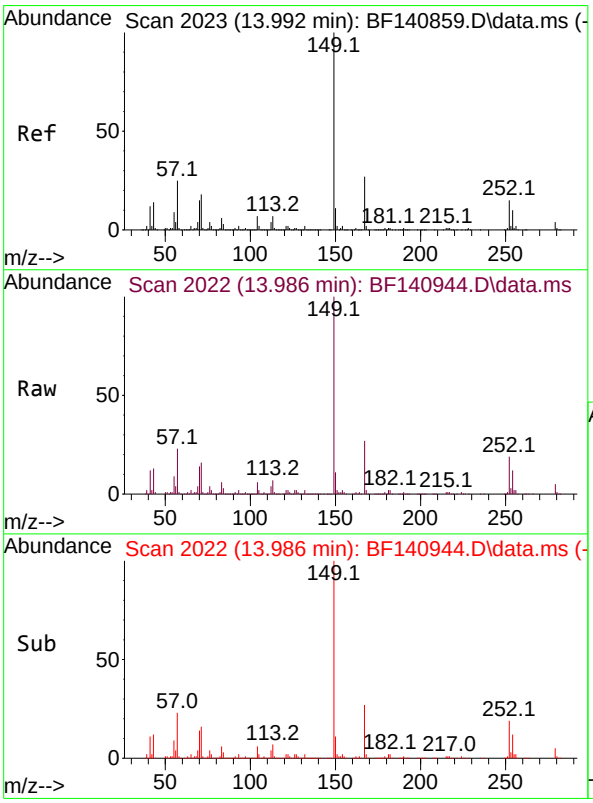
Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	19.8	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

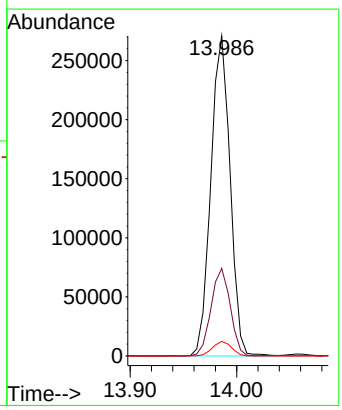
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

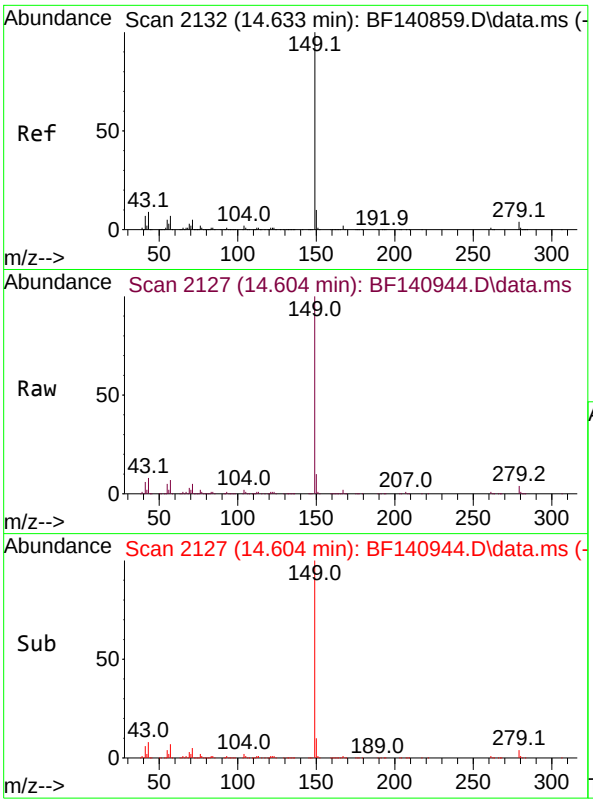


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.941 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 339592

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.8	32.8
279	4.6	3.5	5.3

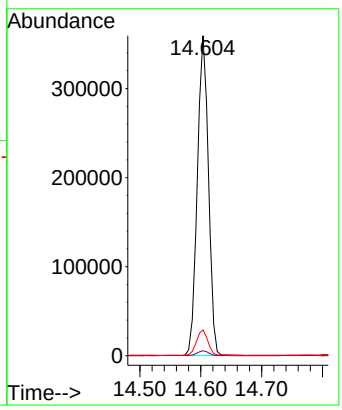




#85
Di-n-octyl phthalate
Concen: 47.866 ng
RT: 14.604 min Scan# 2
Delta R.T. -0.030 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 45590

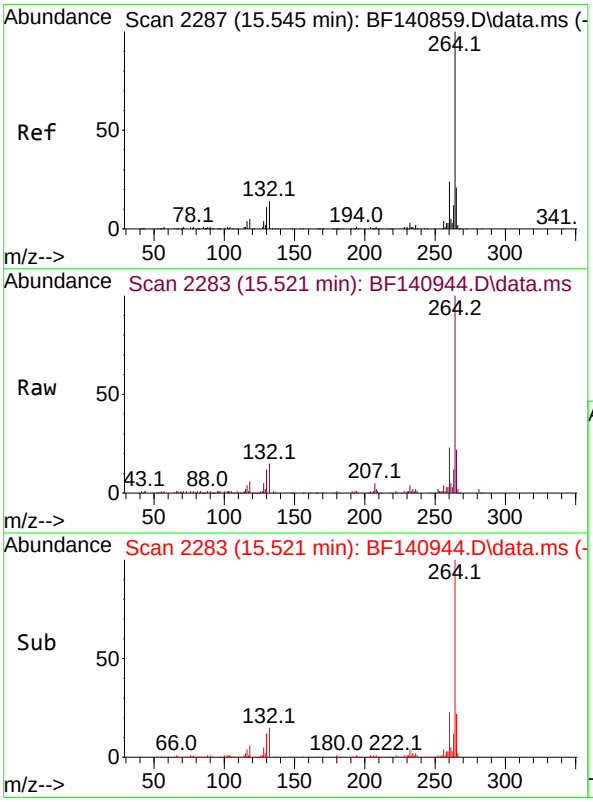
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	7.0	10.6



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

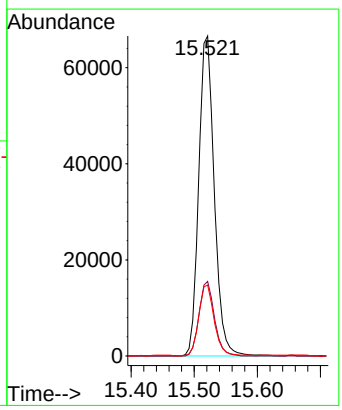
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

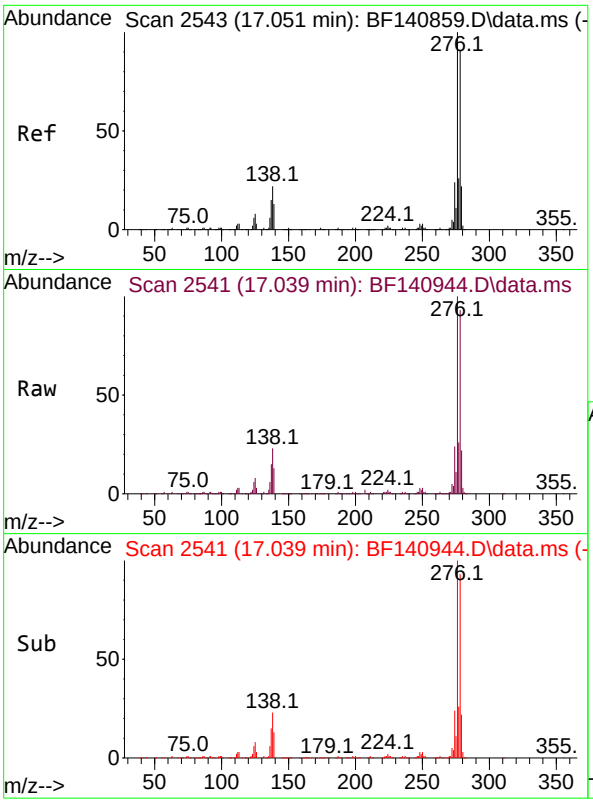


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:264 Resp: 113763

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.1	28.7
265	22.2	17.0	25.4

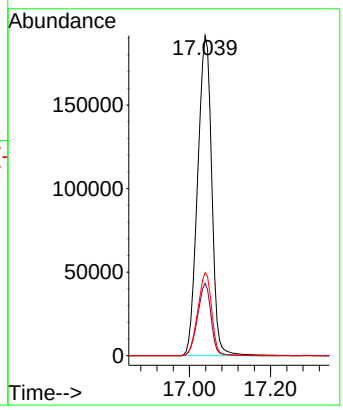




#87
Indeno(1,2,3-cd)pyrene
Concen: 65.266 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

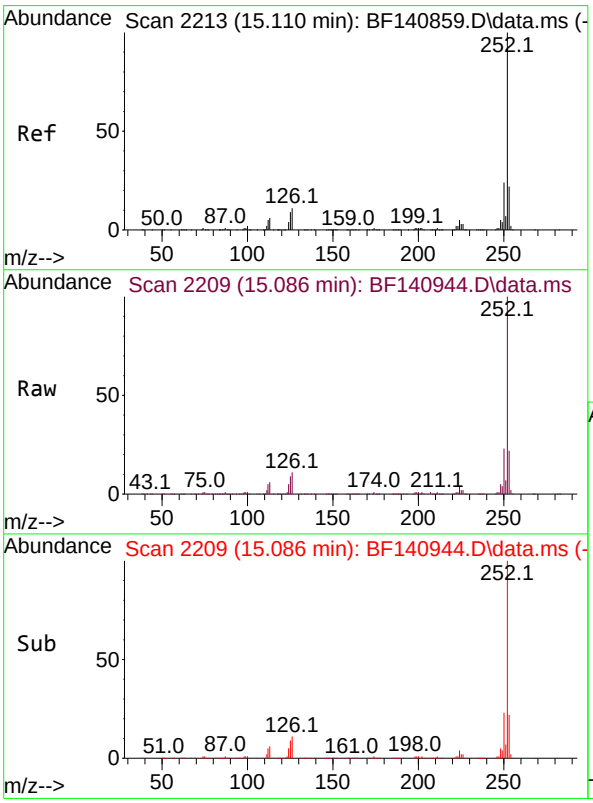
Tgt Ion:276 Resp: 46333

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.9	25.3
277	25.4	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
PB165705BS

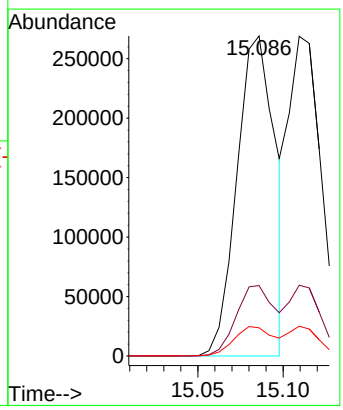
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

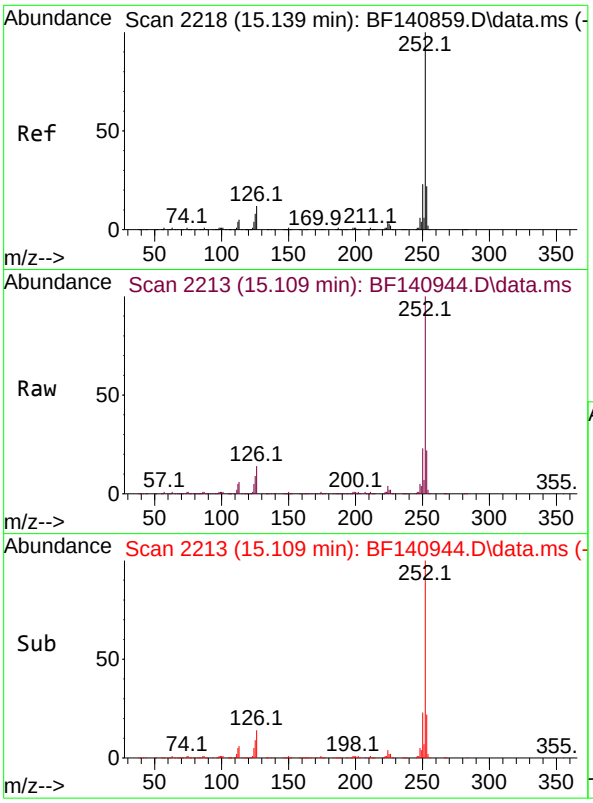


#88
Benzo(b)fluoranthene
Concen: 52.828 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.024 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 417172

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	8.8	7.0	10.4

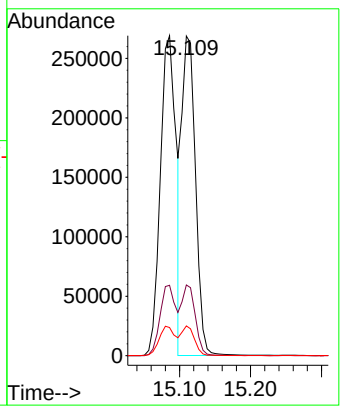




#89
Benzo(k)fluoranthene
Concen: 53.216 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.030 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 36048

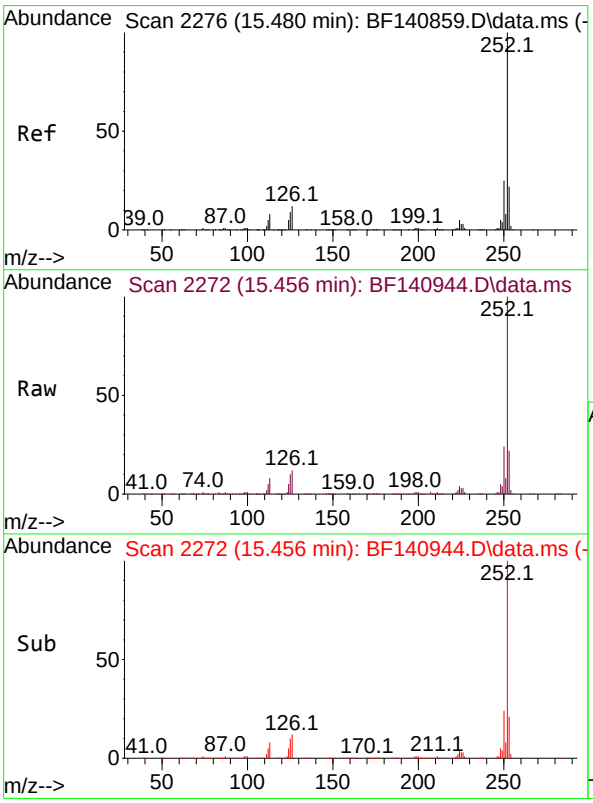
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.3	6.8	10.2



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

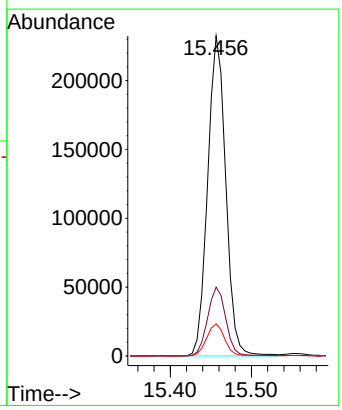
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

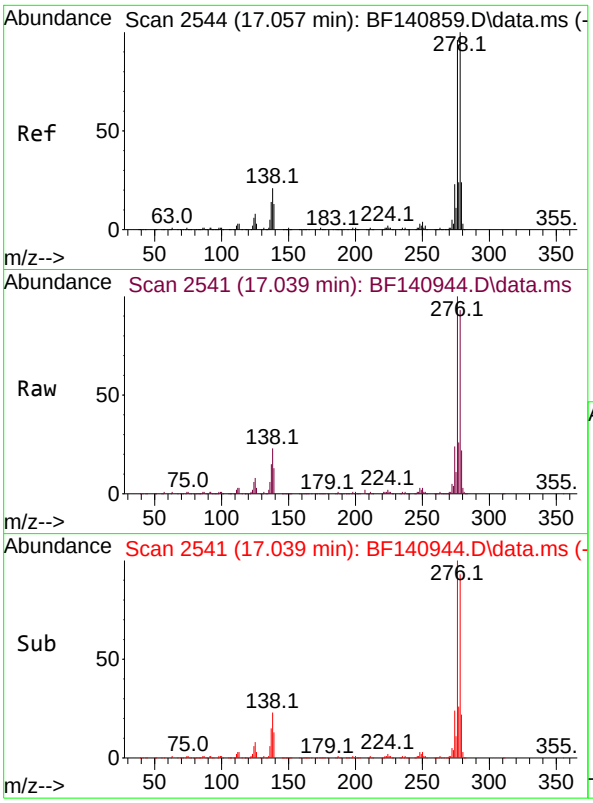


#90
Benzo(a)pyrene
Concen: 58.181 ng
RT: 15.456 min Scan# 2272
Delta R.T. -0.024 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 359761

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.0	7.5	11.3

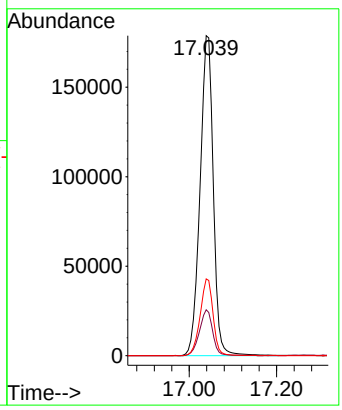




#91
Dibenzo(a,h)anthracene
Concen: 64.223 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:278 Resp: 37771

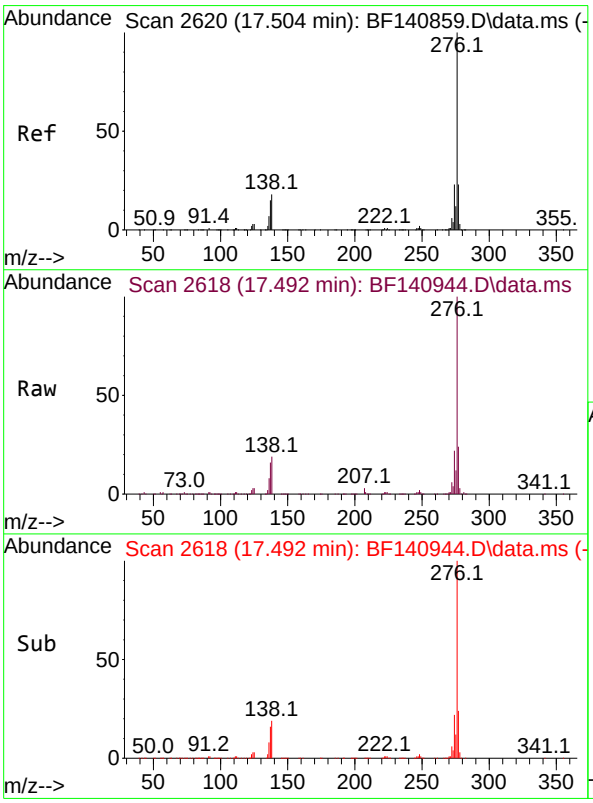
Ion	Ratio	Lower	Upper
278	100		
139	14.4	10.6	16.0
279	24.0	19.2	28.8



Instrument :
BNA_F
ClientSampleId :
PB165705BS

Manual Integrations
APPROVED

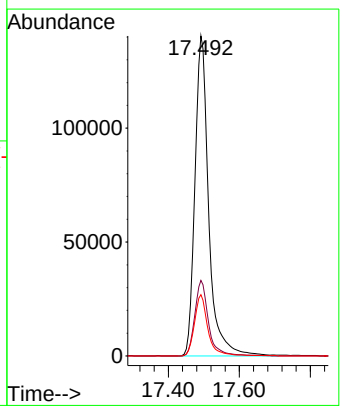
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#92
Benzo(g,h,i)perylene
Concen: 63.386 ng
RT: 17.492 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:276 Resp: 379421

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.7	28.1
138	19.2	14.2	21.2



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224MS	SDG No.:	P5306
Lab Sample ID:	P5306-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140948.D	1	12/18/24 08:56	12/20/24 14:10	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.80		0.088	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	1.70		0.088	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	2.00		0.092	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	1.90		0.086	0.14	0.18	mg/Kg
86-73-7	Fluorene	1.80		0.091	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	2.00		0.089	0.14	0.18	mg/Kg
120-12-7	Anthracene	1.90		0.090	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	1.70		0.087	0.14	0.18	mg/Kg
129-00-0	Pyrene	2.00		0.088	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	1.90		0.086	0.14	0.18	mg/Kg
218-01-9	Chrysene	1.80		0.085	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.70		0.086	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	2.00		0.088	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	2.00		0.099	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.40		0.083	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	2.30		0.087	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	2.20		0.085	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	89.0		37 - 122		89%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.0		44 - 115		84%	SPK: 100
1718-51-0	Terphenyl-d14	91.0		54 - 127		91%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	55400	6.851				
1146-65-2	Naphthalene-d8	209000	8.128				
15067-26-2	Acenaphthene-d10	116000	9.886				
1517-22-2	Phenanthrene-d10	219000	11.38				
1719-03-5	Chrysene-d12	133000	14.033				
1520-96-3	Perylene-d12	114000	15.521				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224MS	SDG No.:	P5306
Lab Sample ID:	P5306-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.1 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140948.D	1	12/18/24 08:56	12/20/24 14:10	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\BF122024\
Data File : BF140948.D
Acq On : 20 Dec 2024 14:10
Operator : RC/JU
Sample : P5306-09MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 14:38:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	55385	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	209218	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	115521	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	219277	20.000	ng		0.00
76) Chrysene-d12	14.033	240	133308	20.000	ng		0.00
86) Perylene-d12	15.521	264	114231	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	442109	131.406	ng		0.01
7) Phenol-d6	6.504	99	599050	134.430	ng		0.00
23) Nitrobenzene-d5	7.416	82	372228	89.012	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	167201	122.376	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	705412	83.953	ng		0.00
79) Terphenyl-d14	12.963	244	769721	91.048	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.710	88	57898	39.952	ng		98
3) Pyridine	3.487	79	147343	43.903	ng		98
4) n-Nitrosodimethylamine	3.440	42	73891	43.674	ng		95
6) Aniline	6.516	93	152345	39.984	ng	#	72
8) 2-Chlorophenol	6.645	128	202633	55.230	ng		99
9) Benzaldehyde	6.410	77	38178	15.462	ng		92
10) Phenol	6.516	94	259118	56.104	ng		97
11) bis(2-Chloroethyl)ether	6.587	93	180043	52.272	ng		99
12) 1,3-Dichlorobenzene	6.787	146	210487	50.348	ng		98
13) 1,4-Dichlorobenzene	6.869	146	216818	51.092	ng		98
14) 1,2-Dichlorobenzene	7.016	146	203761	50.890	ng		99
15) Benzyl Alcohol	7.004	79	175492	55.078	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.116	45	208259	51.327	ng		91
17) 2-Methylphenol	7.122	107	160183	54.685	ng		99
18) Hexachloroethane	7.351	117	77377	48.978	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	140269	52.475	ng		97
20) 3+4-Methylphenols	7.275	107	218873	56.350	ng	#	80
22) Acetophenone	7.263	105	281478	53.782	ng		94
24) Nitrobenzene	7.440	77	213867	49.921	ng		95
25) Isophorone	7.675	82	358474	51.161	ng		99
26) 2-Nitrophenol	7.751	139	110125	55.813	ng		95
27) 2,4-Dimethylphenol	7.792	122	151216	65.624	ng		99
28) bis(2-Chloroethoxy)met...	7.875	93	221616	50.641	ng		99
29) 2,4-Dichlorophenol	8.004	162	170278	53.525	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	174689	47.901	ng		99
31) Naphthalene	8.151	128	576356	50.150	ng		100
32) Benzoic acid	7.945	122	79916	36.568	ng		95
33) 4-Chloroaniline	8.210	127	86711	22.717	ng		98
34) Hexachlorobutadiene	8.263	225	112396	45.808	ng		99
35) Caprolactam	8.592	113	52938m	55.895	ng		
36) 4-Chloro-3-methylphenol	8.704	107	176282	49.233	ng		100
37) 2-Methylnaphthalene	8.845	142	369738	48.635	ng		100
38) 1-Methylnaphthalene	8.945	142	347475	46.215	ng		100
40) 1,2,4,5-Tetrachloroben...	9.010	216	184825	52.053	ng		99
41) Hexachlorocyclopentadiene	8.992	237	34644	40.992	ng		98
43) 2,4,6-Trichlorophenol	9.134	196	110805	50.964	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140948.D
Acq On : 20 Dec 2024 14:10
Operator : RC/JU
Sample : P5306-09MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 20 14:38:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	117901	49.337	ng	99
46) 1,1'-Biphenyl	9.304	154	472666	51.455	ng	99
47) 2-Chloronaphthalene	9.334	162	352165	50.113	ng	99
48) 2-Nitroaniline	9.439	65	109079	51.395	ng	94
49) Acenaphthylene	9.751	152	576620	55.834	ng	99
50) Dimethylphthalate	9.604	163	409034	50.222	ng	100
51) 2,6-Dinitrotoluene	9.681	165	92478	49.668	ng	94
52) Acenaphthene	9.922	154	351200	53.237	ng	99
53) 3-Nitroaniline	9.857	138	55538	30.057	ng	94
54) 2,4-Dinitrophenol	9.981	184	87671	95.155	ng	90
55) Dibenzofuran	10.092	168	537457	52.577	ng	99
56) 4-Nitrophenol	10.045	139	83327	83.625	ng	98
57) 2,4-Dinitrotoluene	10.092	165	127795	52.166	ng	98
58) Fluorene	10.439	166	428757	50.841	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	101786	52.272	ng	92
60) Diethylphthalate	10.304	149	405299	47.990	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	212840	50.243	ng	96
62) 4-Nitroaniline	10.475	138	98375m	50.949	ng	
63) Azobenzene	10.586	77	429196	54.056	ng	94
65) 4,6-Dinitro-2-methylph...	10.510	198	70374	56.637	ng	94
66) n-Nitrosodiphenylamine	10.545	169	372378	55.234	ng	100
67) 4-Bromophenyl-phenylether	10.916	248	124883	50.908	ng	97
68) Hexachlorobenzene	10.986	284	138231	49.700	ng	98
69) Atrazine	11.075	200	116856	62.062	ng	99
70) Pentachlorophenol	11.198	266	78972	77.662	ng	98
71) Phenanthrene	11.404	178	628319	55.721	ng	99
72) Anthracene	11.457	178	597017	53.762	ng	100
73) Carbazole	11.616	167	569460	52.355	ng	99
74) Di-n-butylphthalate	11.928	149	638255	49.999	ng	99
75) Fluoranthene	12.598	202	637105	49.060	ng	100
77) Benzidine	12.722	184	125211	46.021	ng	99
78) Pyrene	12.827	202	665883	56.171	ng	99
80) Butylbenzylphthalate	13.433	149	231762	53.133	ng	96
81) Benzo(a)anthracene	14.021	228	492886	52.168	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	81414	28.561	ng	97
83) Chrysene	14.057	228	441907	51.436	ng	99
84) Bis(2-ethylhexyl)phtha...	13.986	149	267856	47.624	ng	99
85) Di-n-octyl phthalate	14.604	149	365090	42.906	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	474317	66.539	ng	99
88) Benzo(b)fluoranthene	15.086	252	381086	48.060	ng	100
89) Benzo(k)fluoranthene	15.116	252	373879	54.968	ng	100
90) Benzo(a)pyrene	15.457	252	355872	57.316	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	390092	66.055	ng	99
92) Benzo(g,h,i)perylene	17.498	276	373367	62.119	ng	99

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

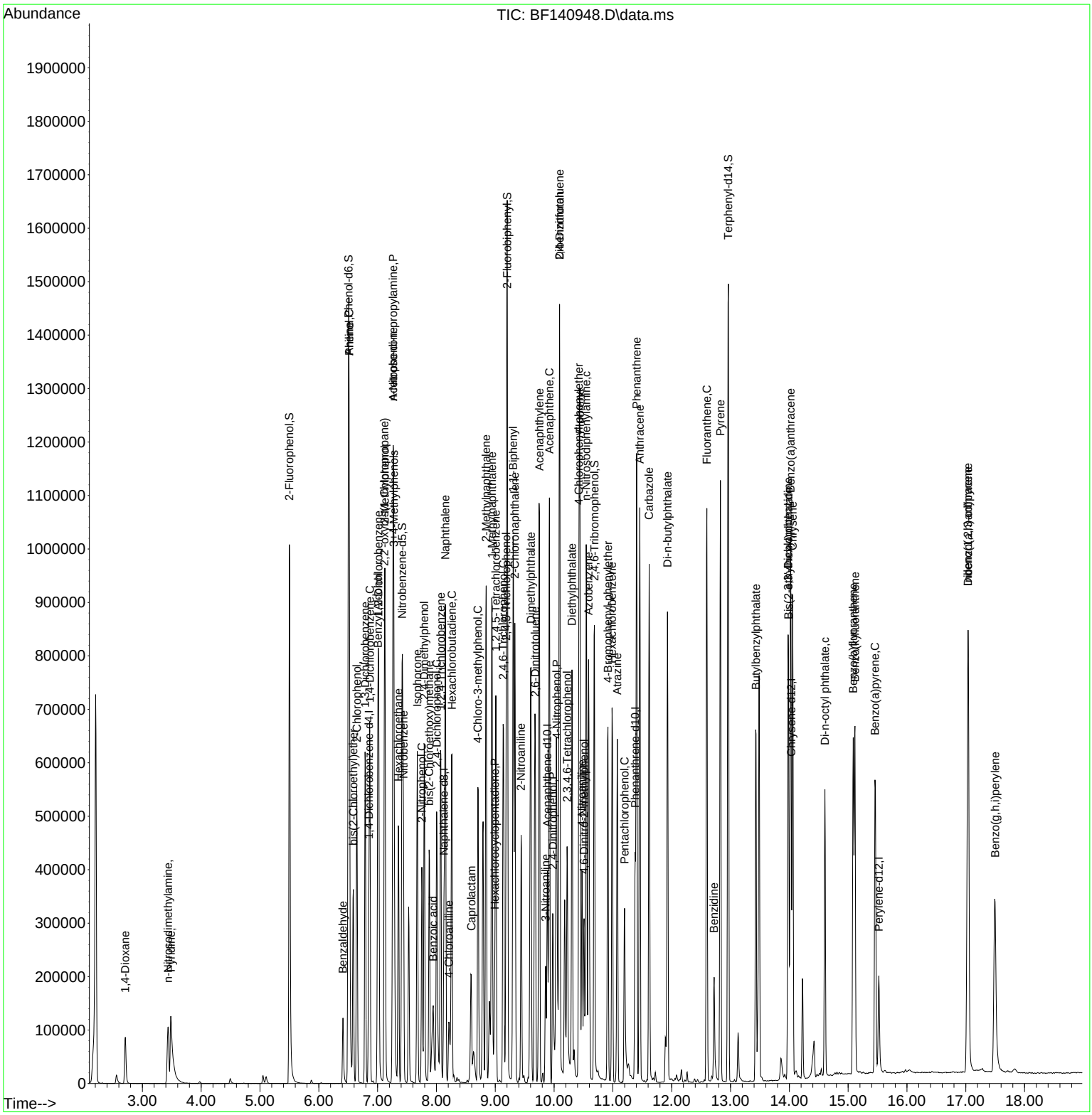
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140948.D
Acq On : 20 Dec 2024 14:10
Operator : RC/JU
Sample : P5306-09MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

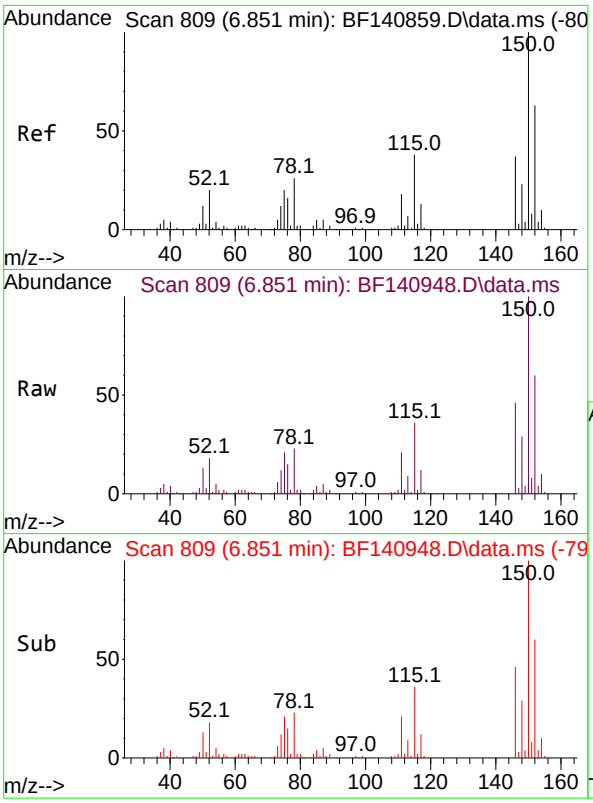
Quant Time: Dec 20 14:38:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

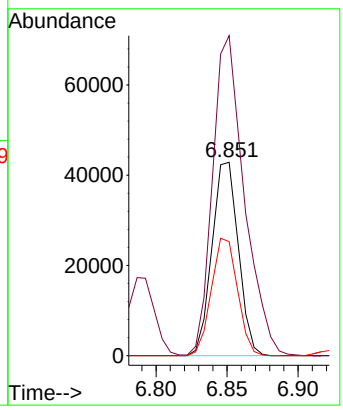




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:152 Resp: 5538

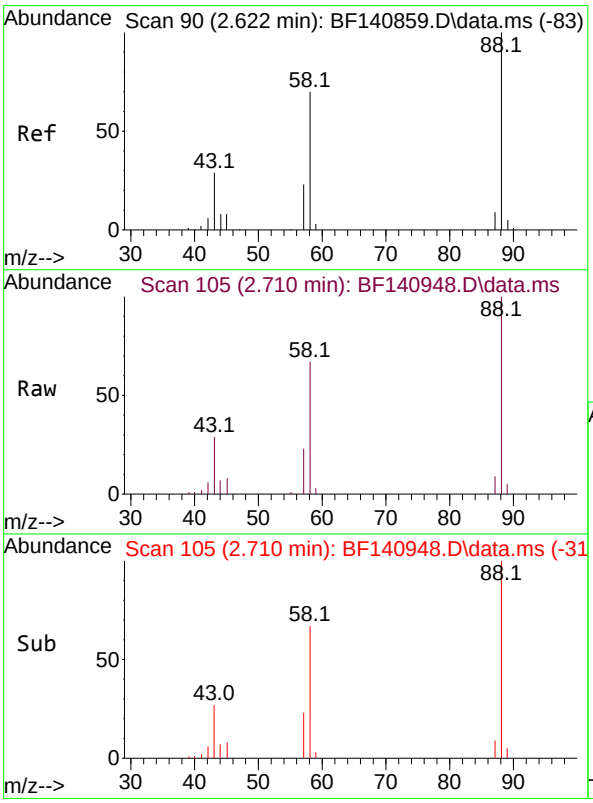
Ion	Ratio	Lower	Upper
152	100		
150	165.5	127.9	191.9
115	59.0	48.0	72.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

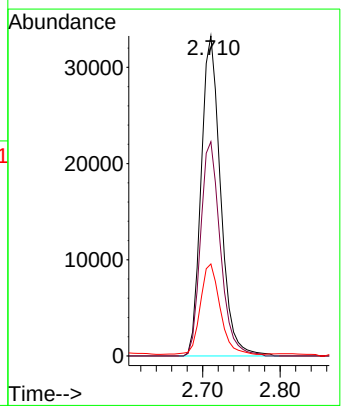
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

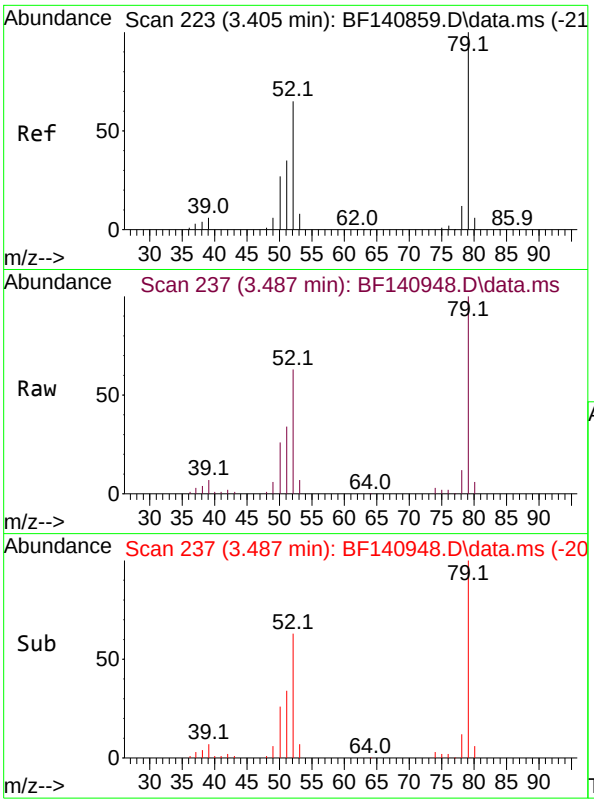


#2
1,4-Dioxane
Concen: 39.952 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.088 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 88 Resp: 57898

Ion	Ratio	Lower	Upper
88	100		
58	68.2	55.8	83.8
43	29.7	22.7	34.1

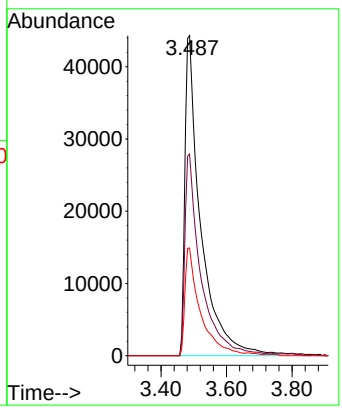




#3
Pyridine
Concen: 43.903 ng
RT: 3.487 min Scan# 2
Delta R.T. 0.082 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

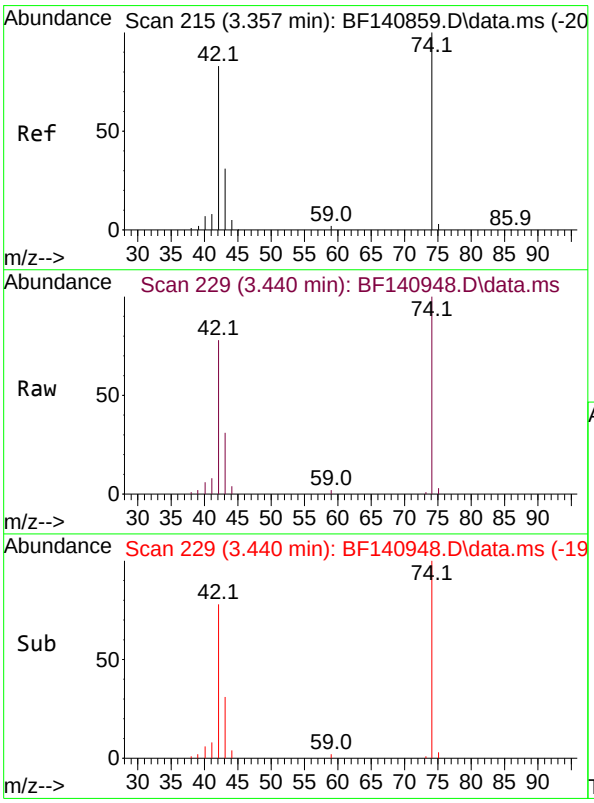
Tgt Ion: 79 Resp: 14734

Ion	Ratio	Lower	Upper
79	100		
52	63.0	51.7	77.5
51	33.7	28.2	42.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

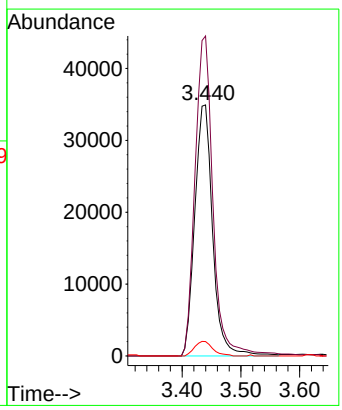
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

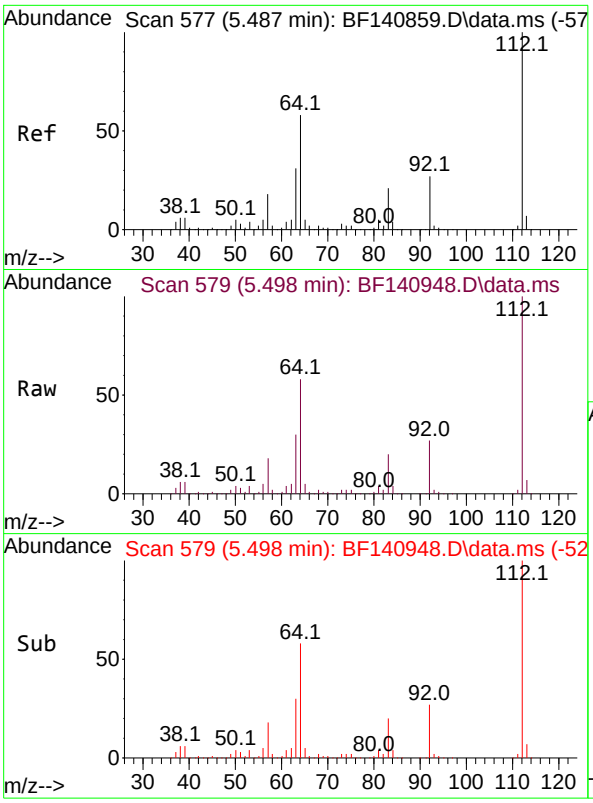


#4
n-Nitrosodimethylamine
Concen: 43.674 ng
RT: 3.440 min Scan# 229
Delta R.T. 0.082 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 42 Resp: 73891

Ion	Ratio	Lower	Upper
42	100		
74	127.4	96.9	145.3
44	5.7	4.4	6.6

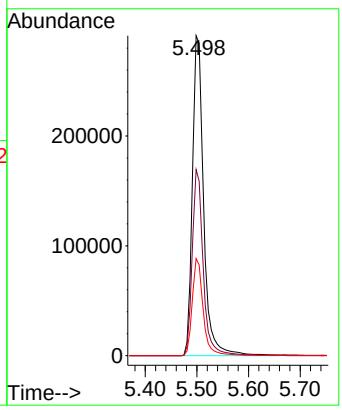




#5
2-Fluorophenol
Concen: 131.406 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:112 Resp: 44210

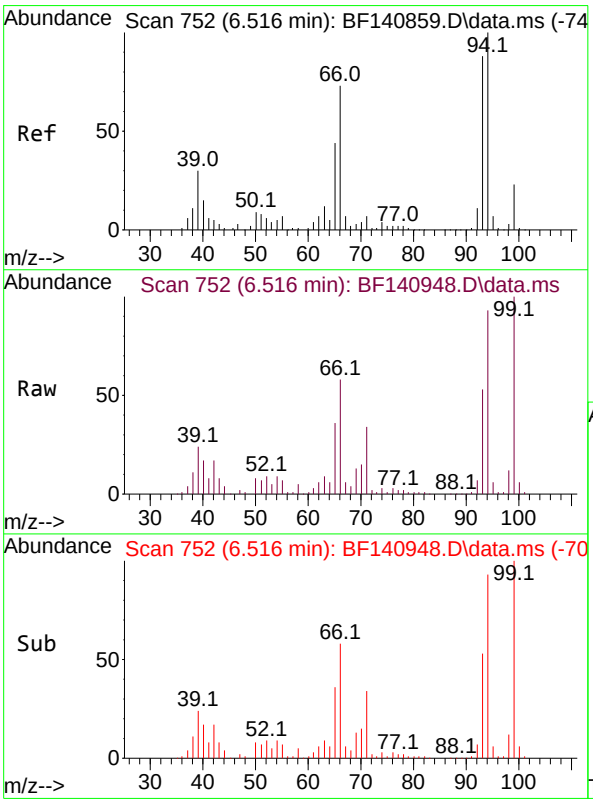
Ion	Ratio	Lower	Upper
112	100		
64	58.2	46.1	69.1
63	30.3	24.9	37.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

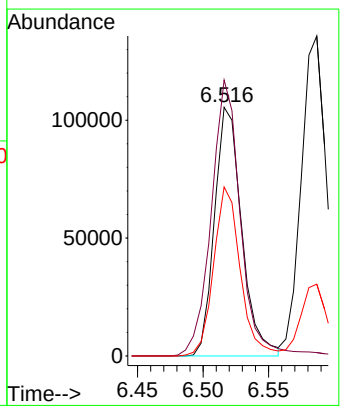
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

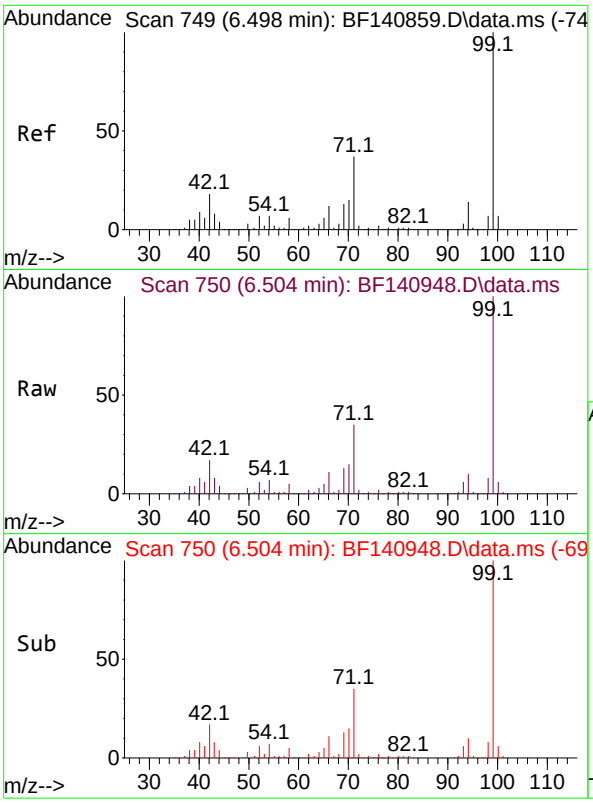


#6
Aniline
Concen: 39.984 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 93 Resp: 152345

Ion	Ratio	Lower	Upper
93	100		
66	111.0	67.0	100.4#
65	67.9	40.4	60.6#

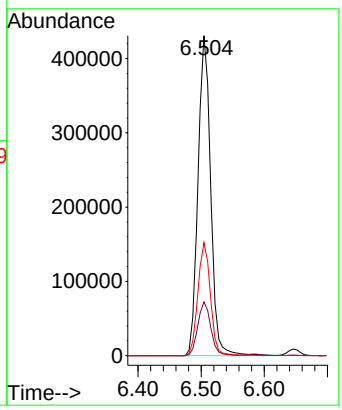




#7
Phenol-d6
Concen: 134.430 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 99 Resp: 59905

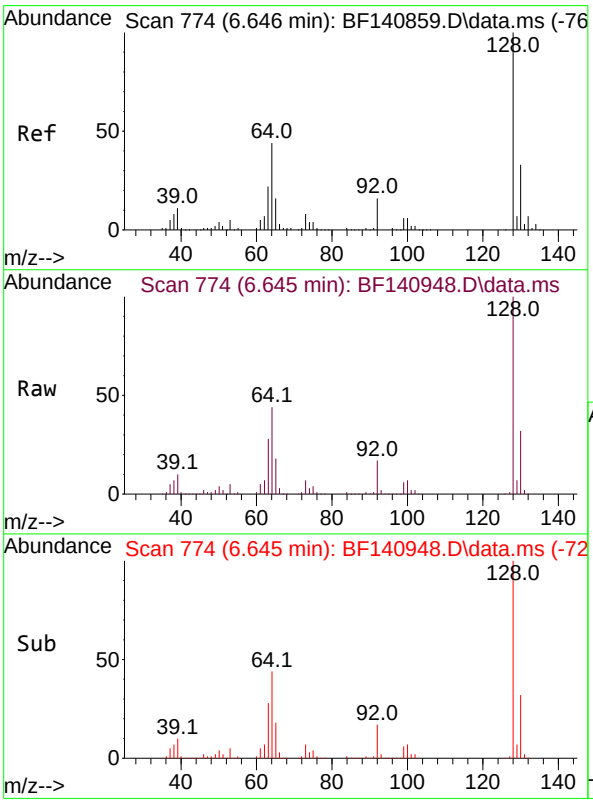
Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.3	21.5
71	35.4	29.9	44.9



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

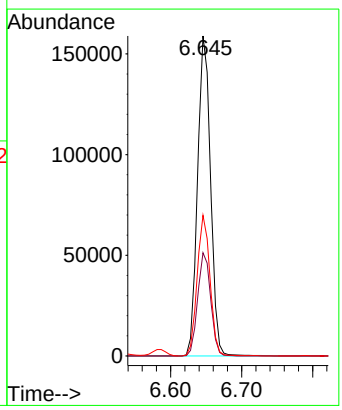
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

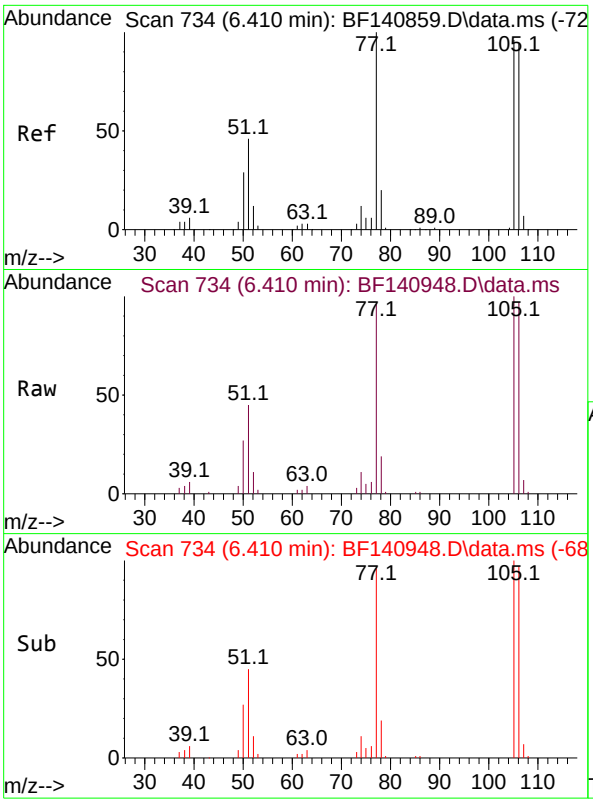


#8
2-Chlorophenol
Concen: 55.230 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:128 Resp: 202633

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.9	52.9
64	44.0	24.3	64.3

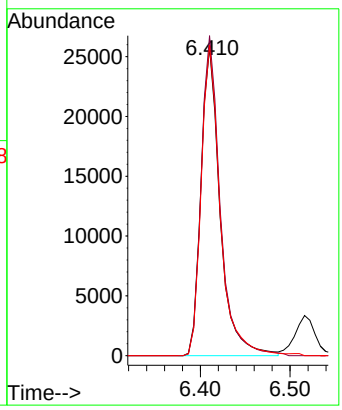




#9
Benzaldehyde
Concen: 15.462 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 77 Resp: 3817

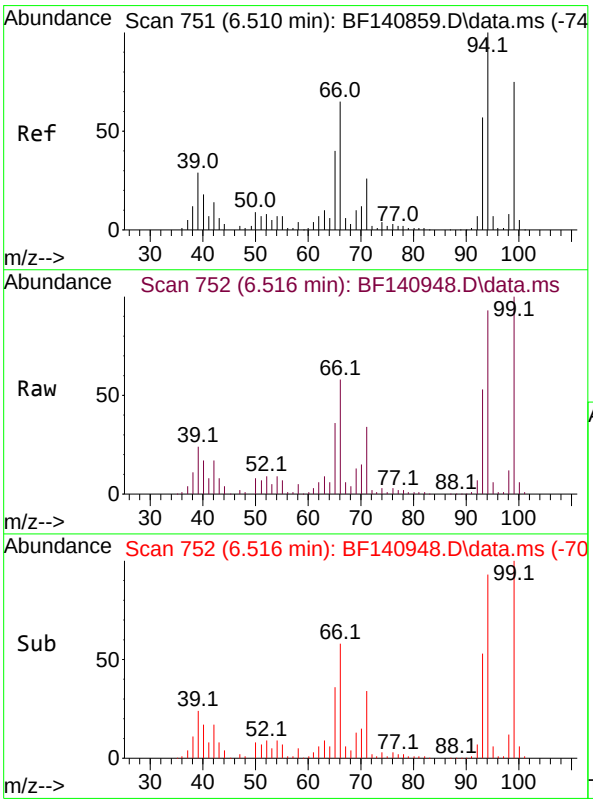
Ion	Ratio	Lower	Upper
77	100		
105	104.0	75.8	115.8
106	100.9	74.1	114.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

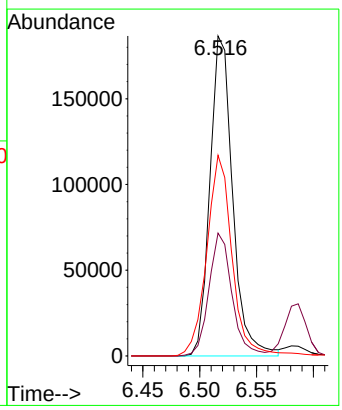
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

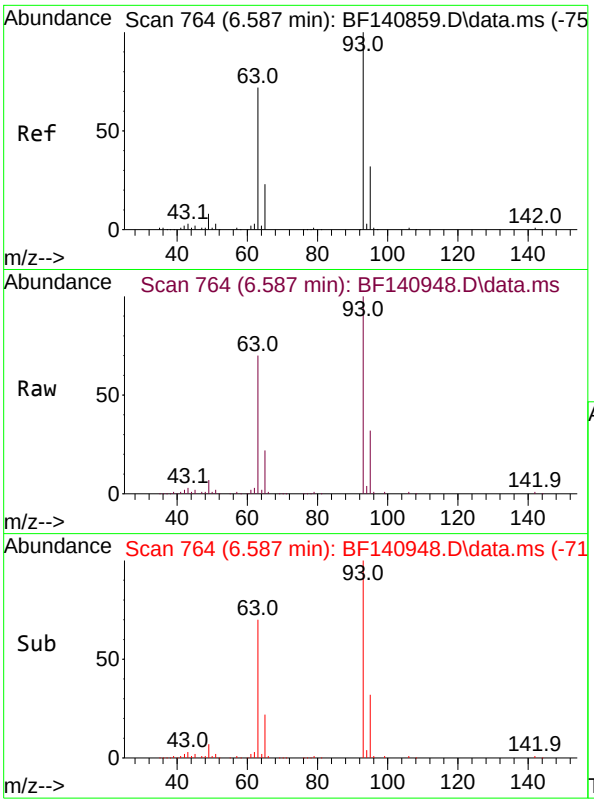


#10
Phenol
Concen: 56.104 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 94 Resp: 259118

Ion	Ratio	Lower	Upper
94	100		
65	38.4	19.9	59.9
66	62.7	45.6	85.6

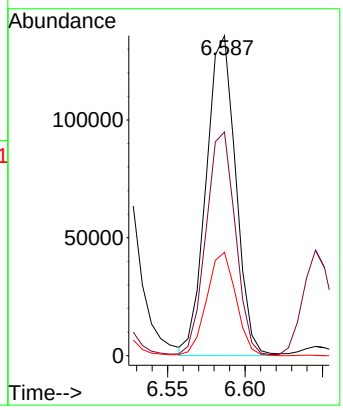




#11
bis(2-Chloroethyl)ether
Concen: 52.272 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 93 Resp: 18004

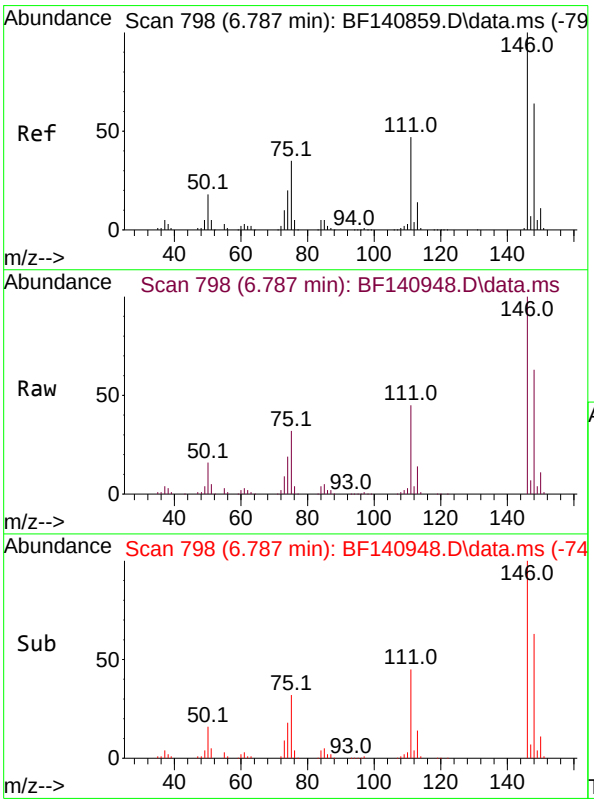
Ion	Ratio	Lower	Upper
93	100		
63	69.9	51.0	91.0
95	32.3	12.0	52.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

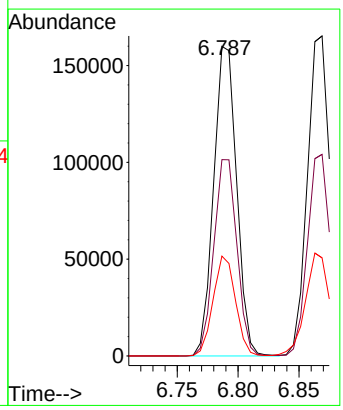
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

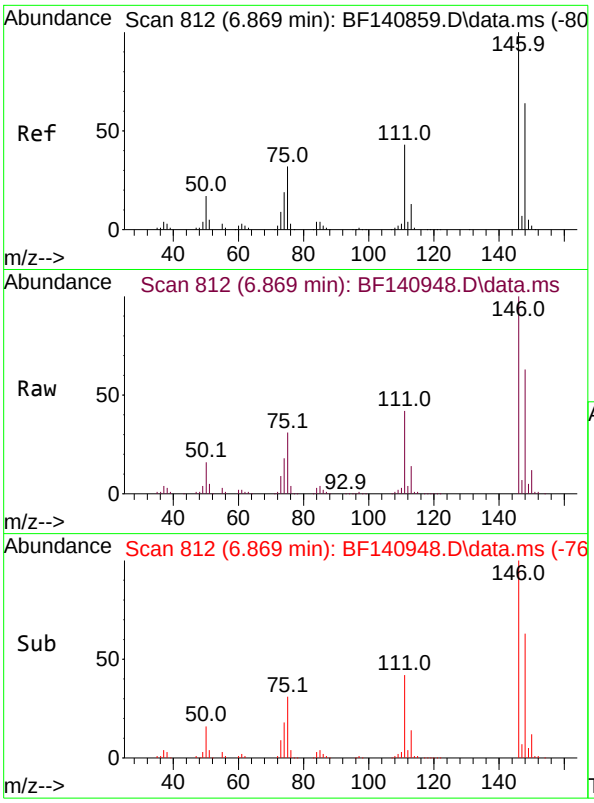


#12
1,3-Dichlorobenzene
Concen: 50.348 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:146 Resp: 210487

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.6
75	32.2	28.1	42.1

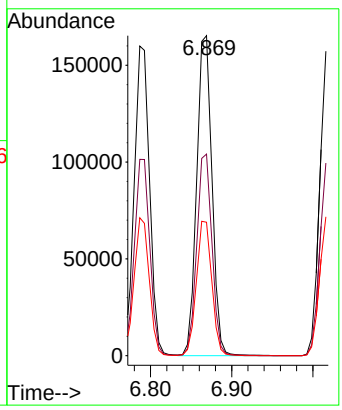




#13
1,4-Dichlorobenzene
Concen: 51.092 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:146 Resp: 21681

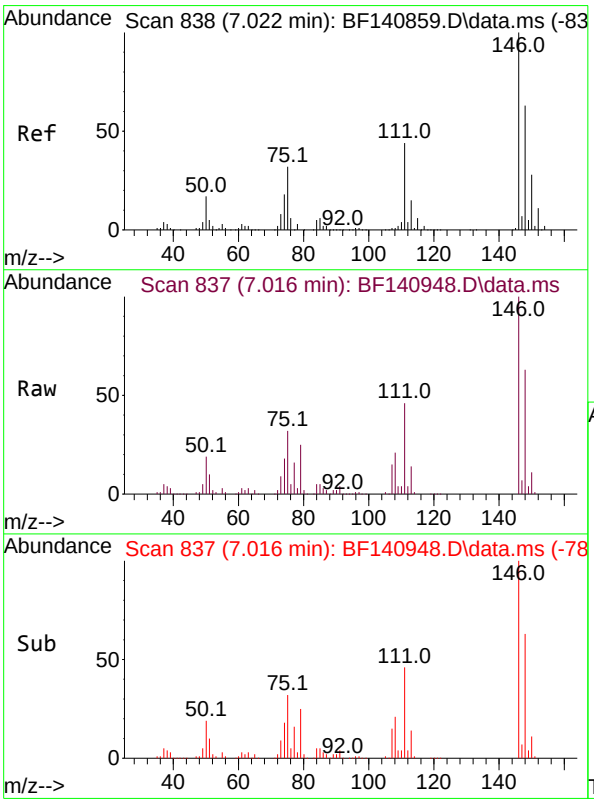
Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.3	76.9
111	41.7	34.4	51.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

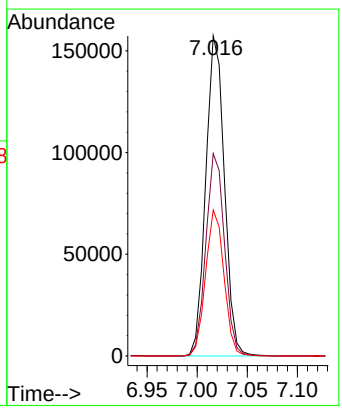
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

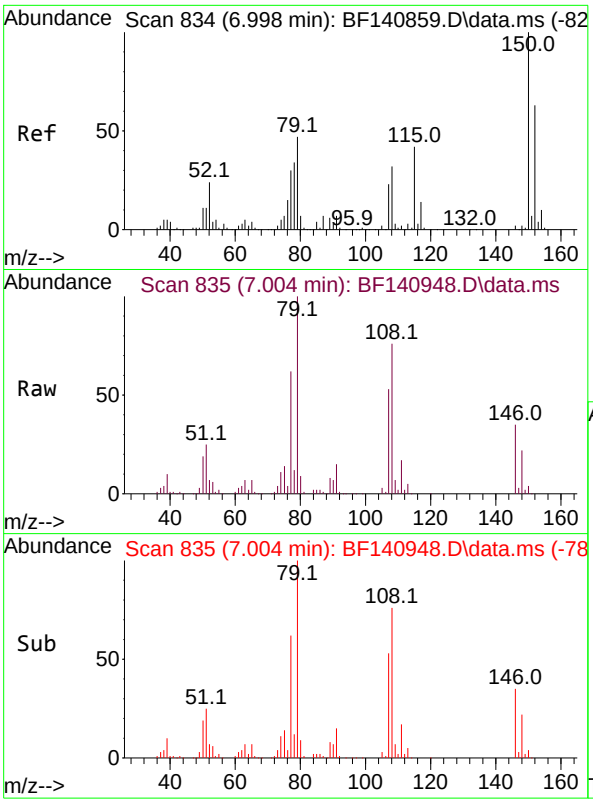


#14
1,2-Dichlorobenzene
Concen: 50.890 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:146 Resp: 203761

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.0	75.0
111	45.6	35.6	53.4





#15
Benzyl Alcohol
Concen: 55.078 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

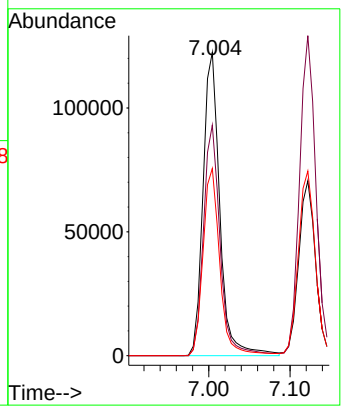
Tgt Ion: 79 Resp: 17549

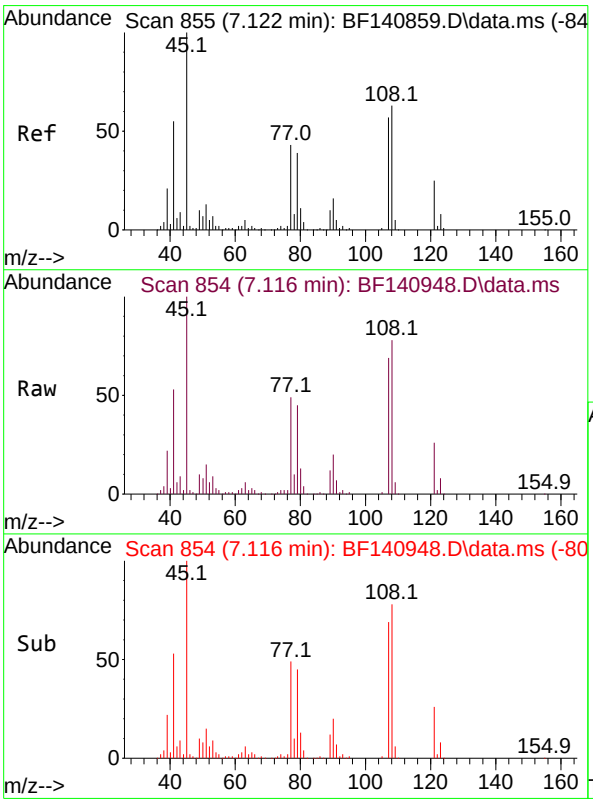
Ion	Ratio	Lower	Upper
79	100		
108	76.0	55.1	82.7
77	61.7	50.6	76.0

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

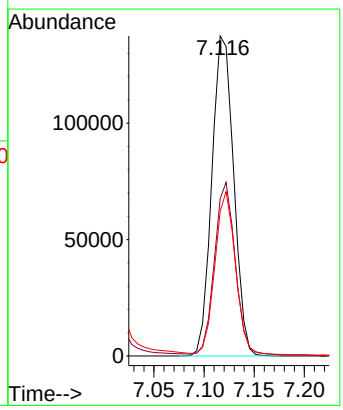


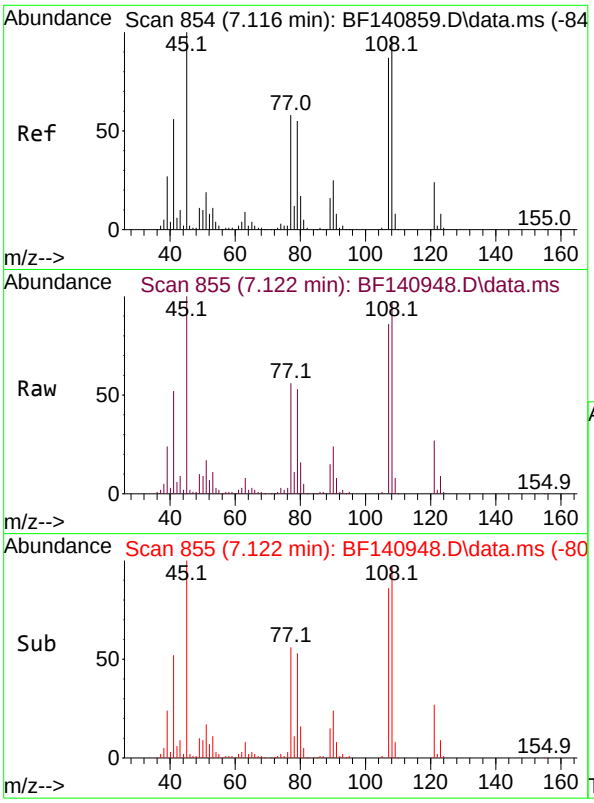


#16
2,2'-oxybis(1-Chloropropane)
Concen: 51.327 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 45 Resp: 208259

Ion	Ratio	Lower	Upper
45	100		
77	49.1	23.3	63.3
79	45.2	20.0	60.0

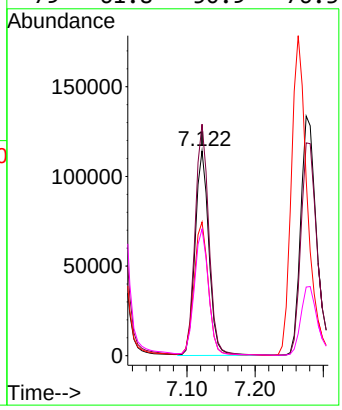




#17
2-Methylphenol
Concen: 54.685 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:107 Resp: 16018

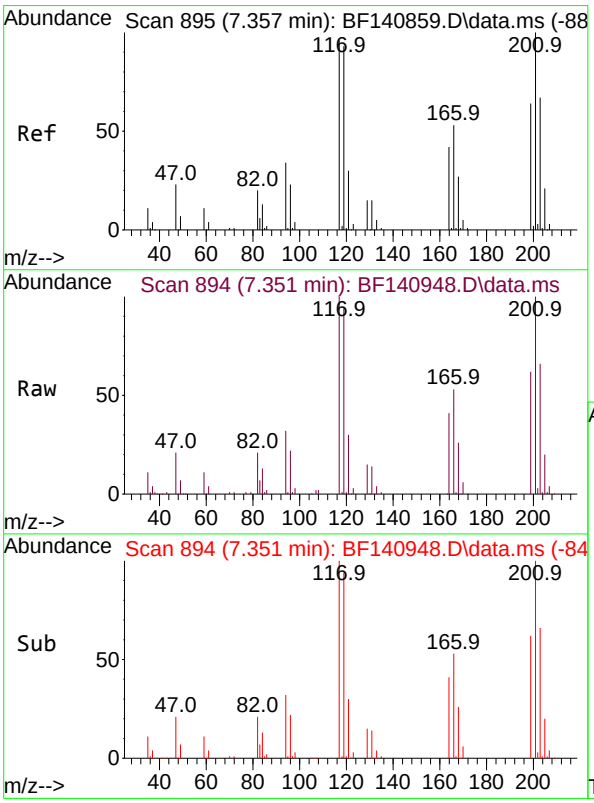
Ion	Ratio	Lower	Upper
107	100		
108	113.0	90.2	135.4
77	65.2	53.8	80.6
79	61.8	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

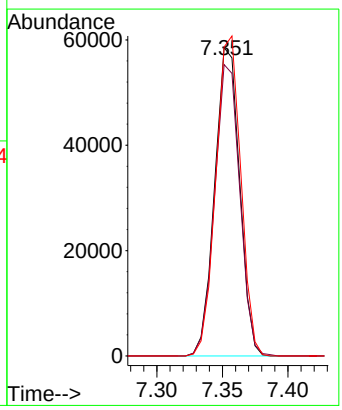
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

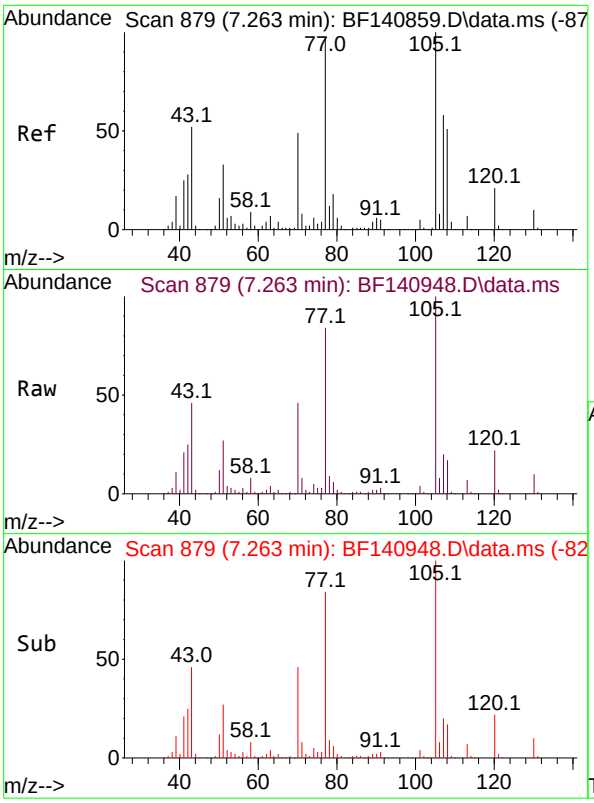


#18
Hexachloroethane
Concen: 48.978 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:117 Resp: 77377

Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.4	116.0
201	100.2	83.4	125.0

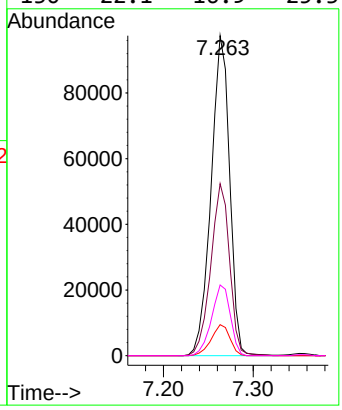




#19
n-Nitroso-di-n-propylamine
Concen: 52.475 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

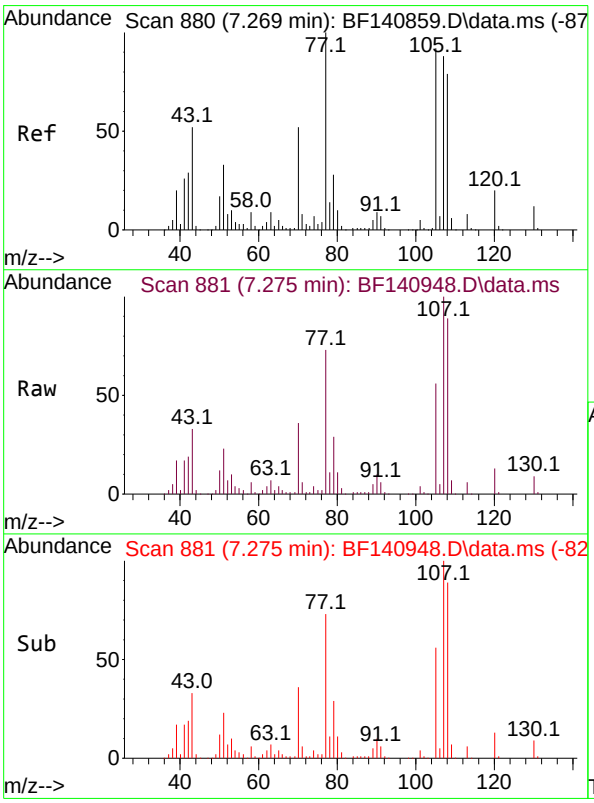
Tgt Ion: 70 Resp: 14026

Ion	Ratio	Lower	Upper
70	100		
42	53.8	45.3	67.9
101	9.7	8.0	12.0
130	22.1	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

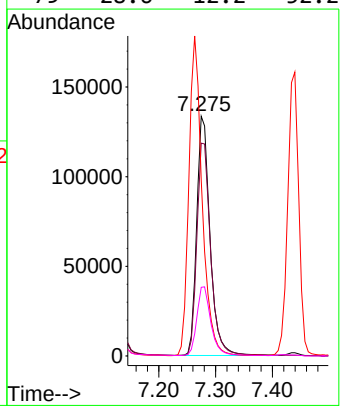
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

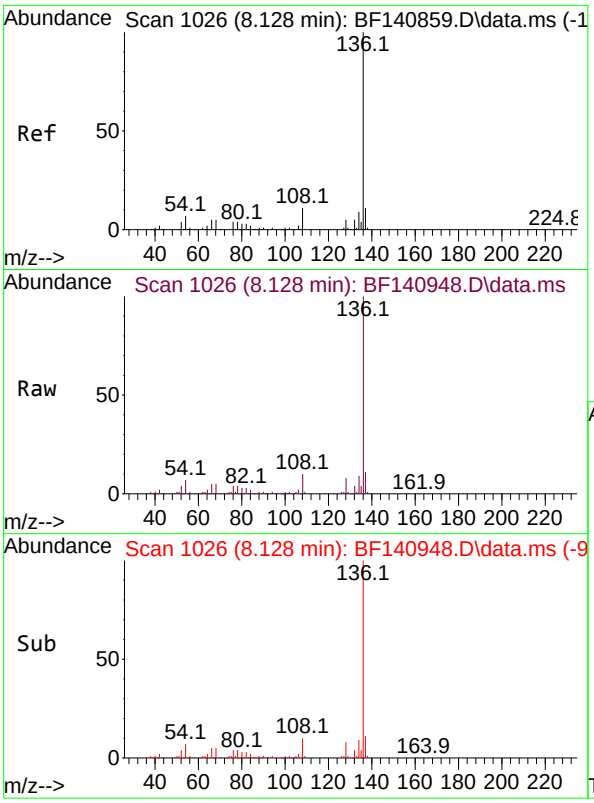


#20
3+4-Methylphenols
Concen: 56.350 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:107 Resp: 218873

Ion	Ratio	Lower	Upper
107	100		
108	88.8	70.1	110.1
77	73.3	94.4	134.4#
79	28.6	12.2	52.2

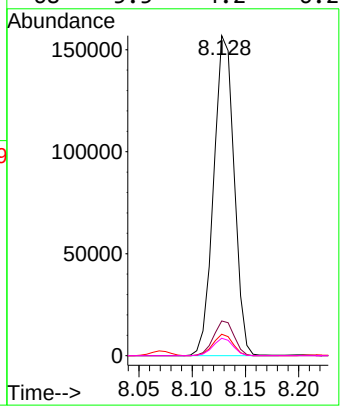




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:136 Resp: 20921

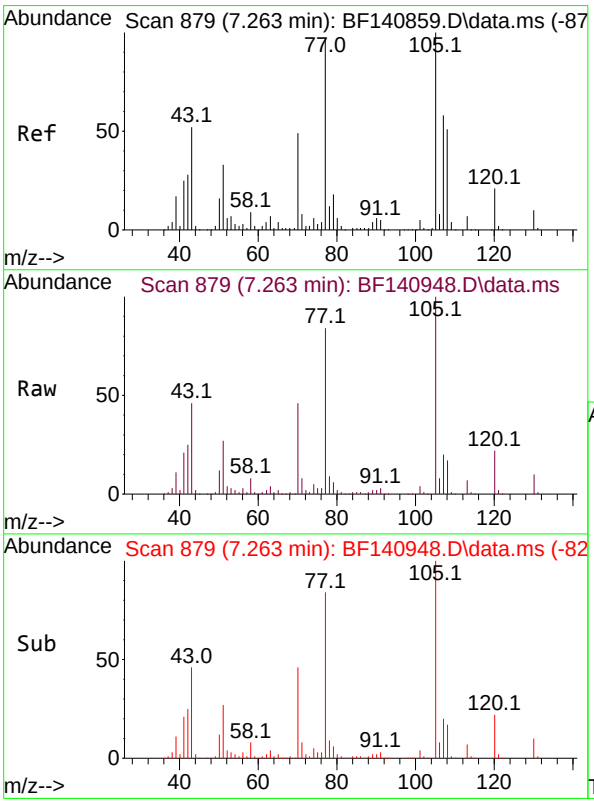
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.7	5.6	8.4
68	5.5	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

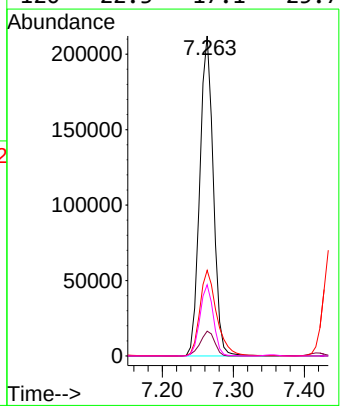
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

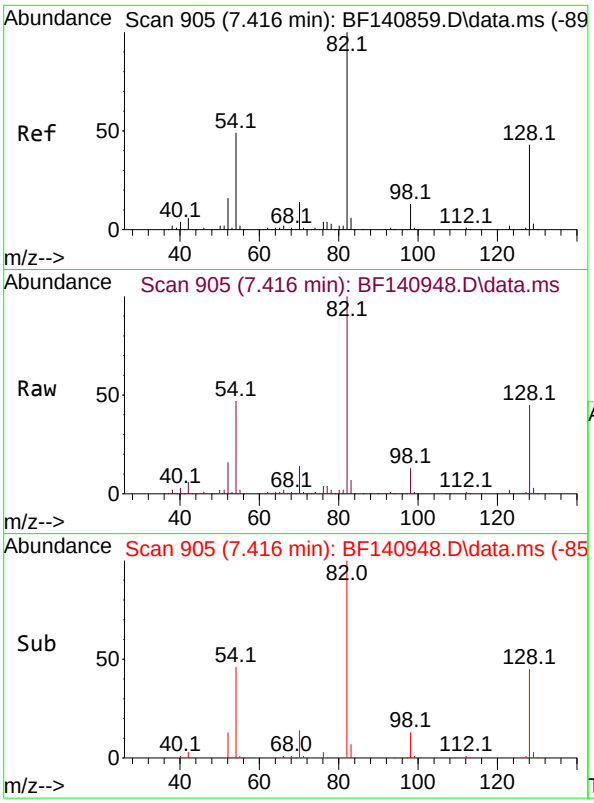


#22
Acetophenone
Concen: 53.782 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:105 Resp: 281478

Ion	Ratio	Lower	Upper
105	100		
71	7.8	6.2	9.4
51	26.7	26.3	39.5
120	22.3	17.1	25.7

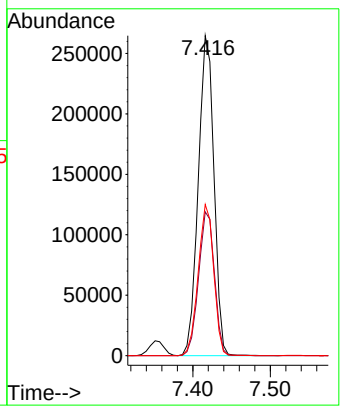




#23
Nitrobenzene-d5
Concen: 89.012 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 82 Resp: 37222

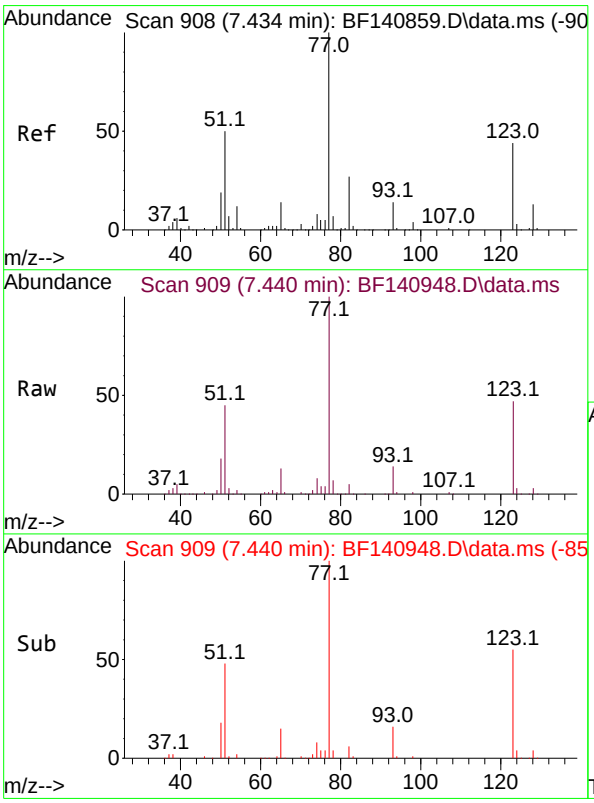
Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.4	51.6
54	47.2	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

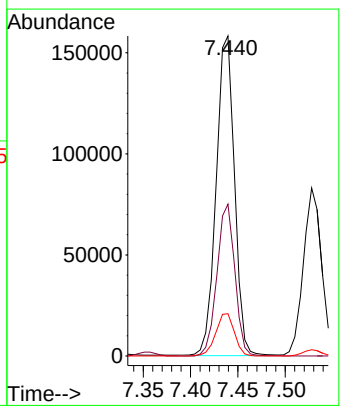
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

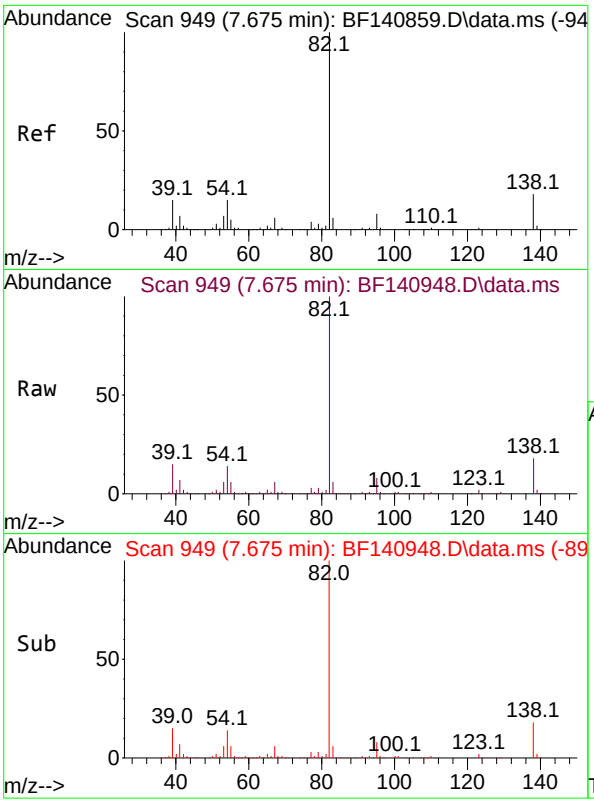


#24
Nitrobenzene
Concen: 49.921 ng
RT: 7.440 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 77 Resp: 213867

Ion	Ratio	Lower	Upper
77	100		
123	47.5	35.0	52.4
65	13.2	11.4	17.0

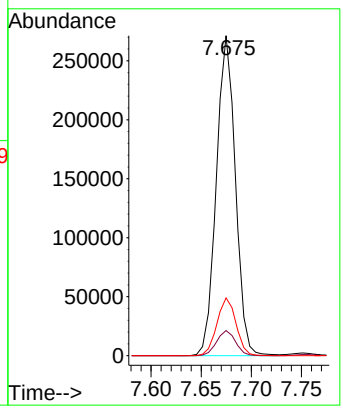




#25
Isophorone
Concen: 51.161 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

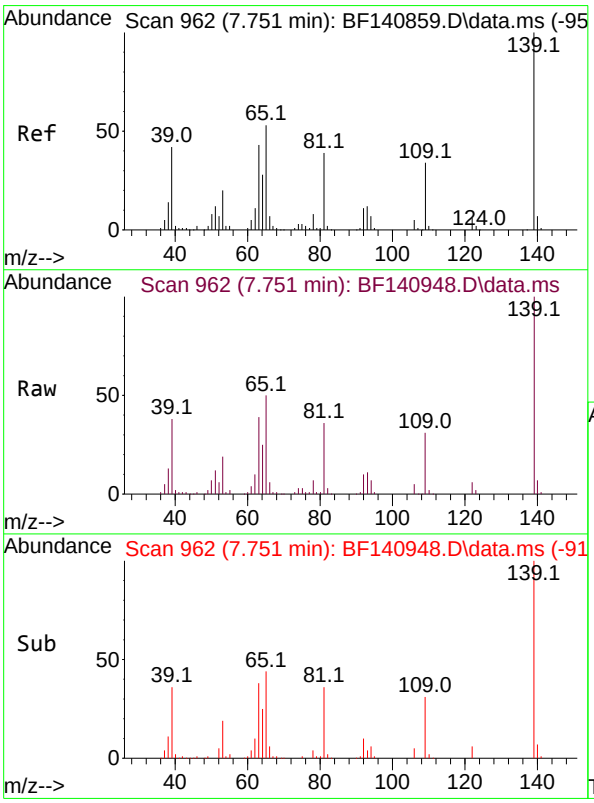
Tgt Ion: 82 Resp: 35847

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	18.1	14.1	21.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

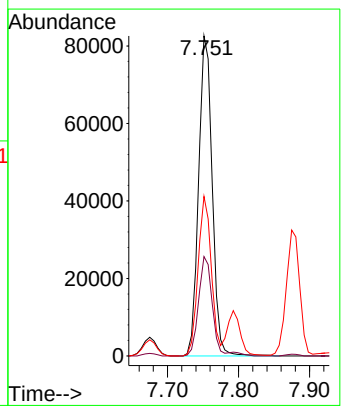
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

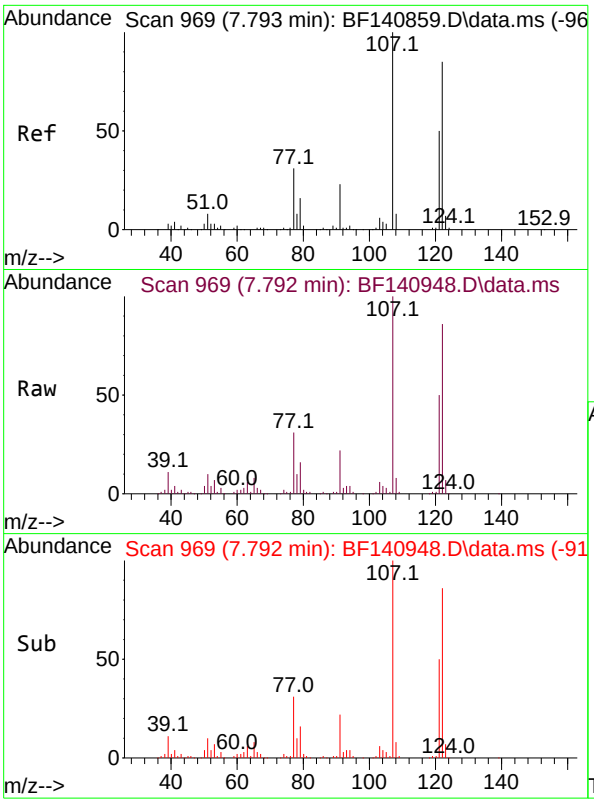


#26
2-Nitrophenol
Concen: 55.813 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:139 Resp: 110125

Ion	Ratio	Lower	Upper
139	100		
109	31.1	26.9	40.3
65	49.8	42.6	64.0

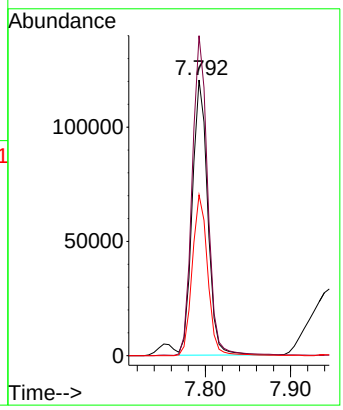




#27
2,4-Dimethylphenol
Concen: 65.624 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:122 Resp: 15121

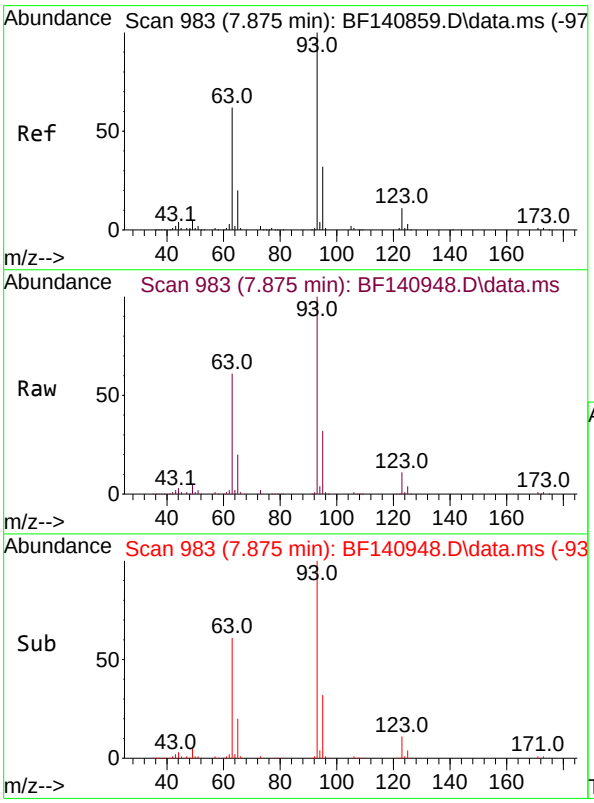
Ion	Ratio	Lower	Upper
122	100		
107	116.1	92.6	139.0
121	58.3	45.8	68.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

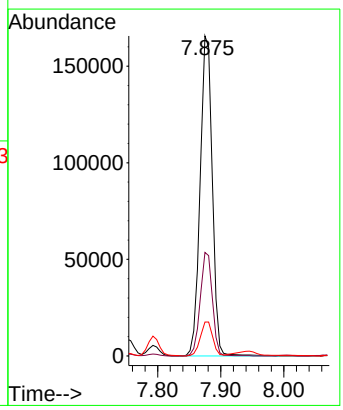
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

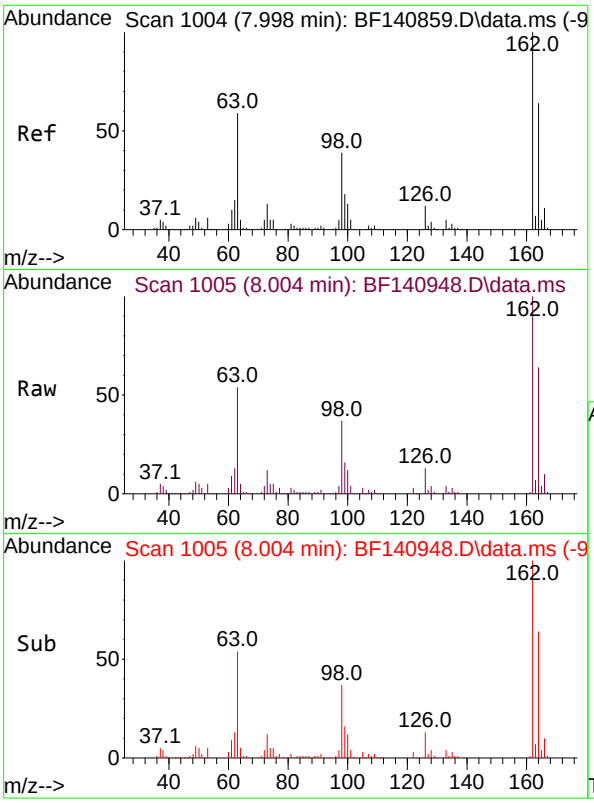


#28
bis(2-Chloroethoxy)methane
Concen: 50.641 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 93 Resp: 221616

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.3	37.9
123	10.6	8.6	13.0

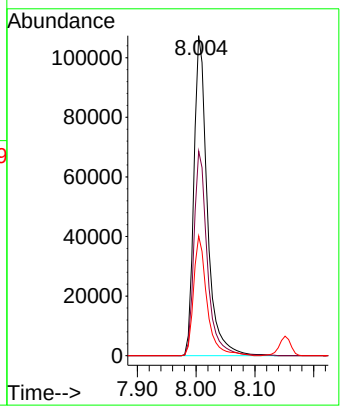




#29
2,4-Dichlorophenol
Concen: 53.525 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:162 Resp: 17027

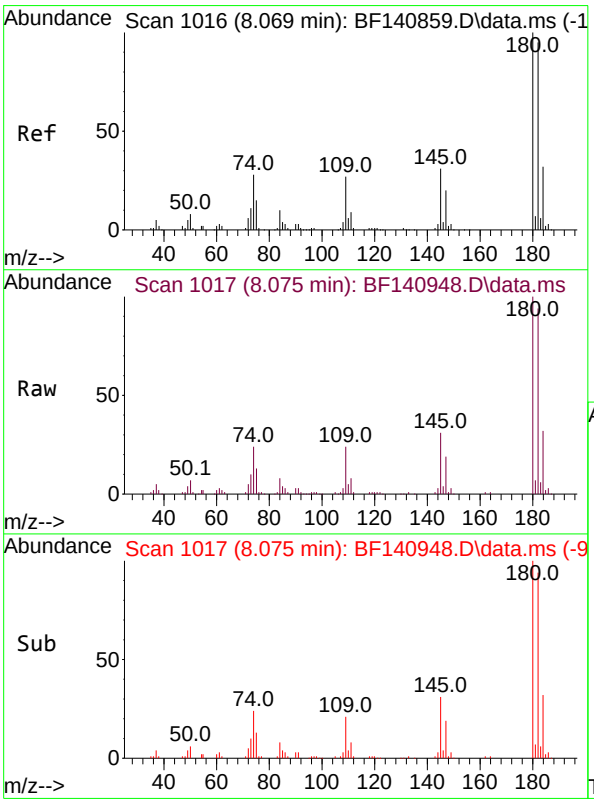
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.7	83.7
98	37.4	18.6	58.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

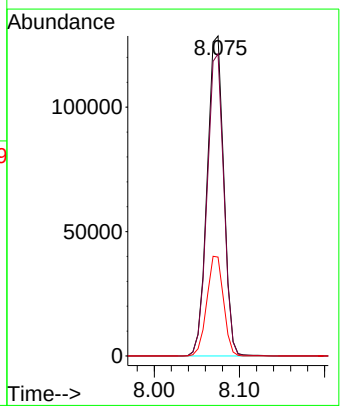
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

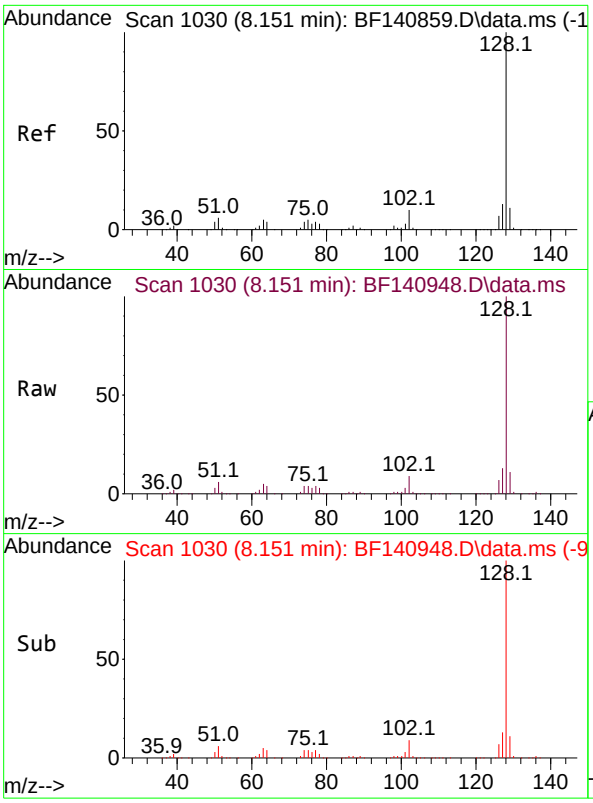


#30
1,2,4-Trichlorobenzene
Concen: 47.901 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:180 Resp: 174689

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.8	113.6
145	30.9	25.2	37.8

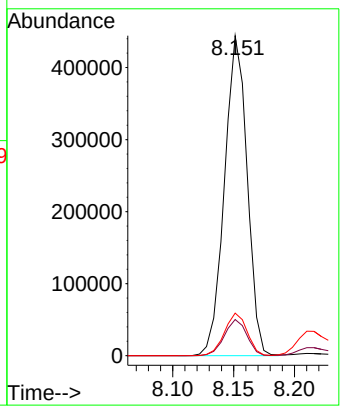




#31
Naphthalene
Concen: 50.150 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

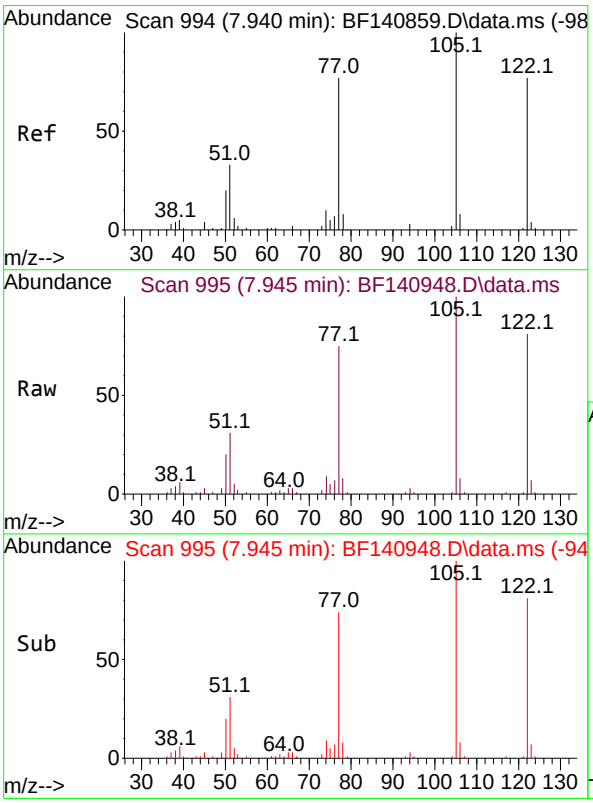
Tgt Ion:128 Resp: 57635

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

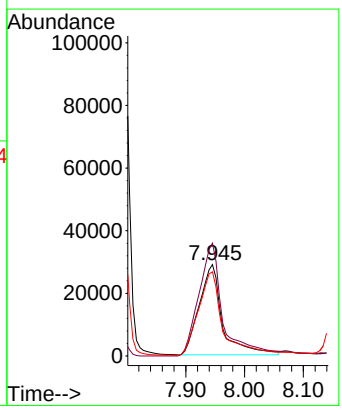
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

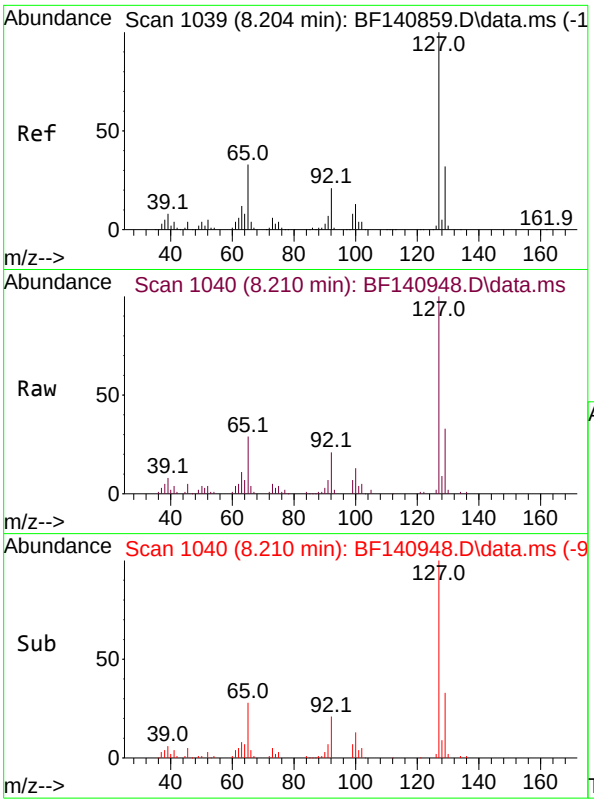


#32
Benzoic acid
Concen: 36.568 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.005 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:122 Resp: 79916

Ion	Ratio	Lower	Upper
122	100		
105	123.4	108.3	148.3
77	92.2	78.8	118.8

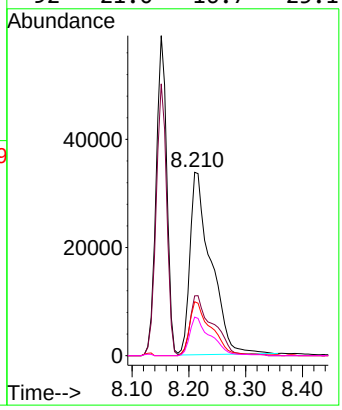




#33
4-Chloroaniline
Concen: 22.717 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

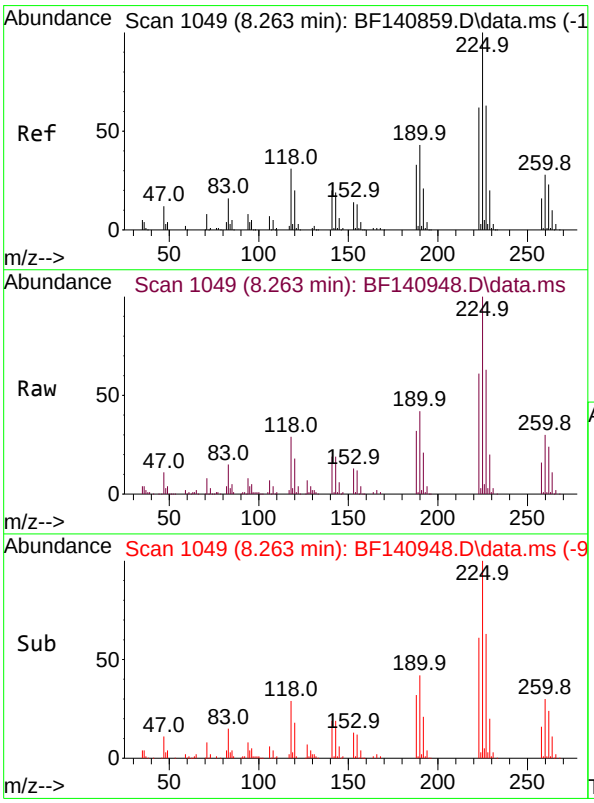
Tgt Ion:127 Resp: 8671

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.0	39.0
65	29.4	26.0	39.0
92	21.0	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

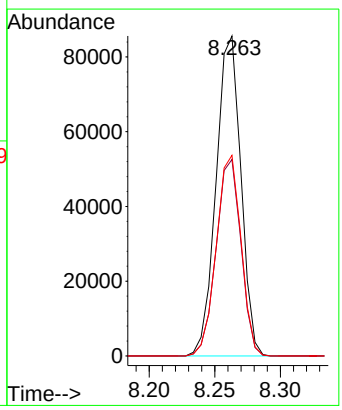
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

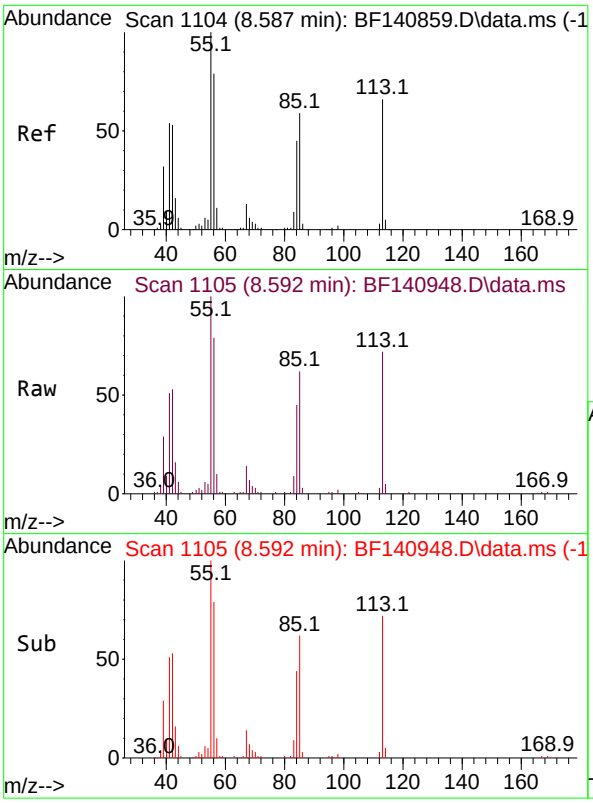


#34
Hexachlorobutadiene
Concen: 45.808 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:225 Resp: 112396

Ion	Ratio	Lower	Upper
225	100		
223	61.4	49.6	74.4
227	62.7	50.7	76.1

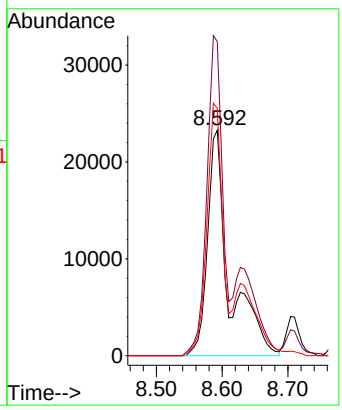




#35
Caprolactam
Concen: 55.895 ng m
RT: 8.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:113 Resp: 5293

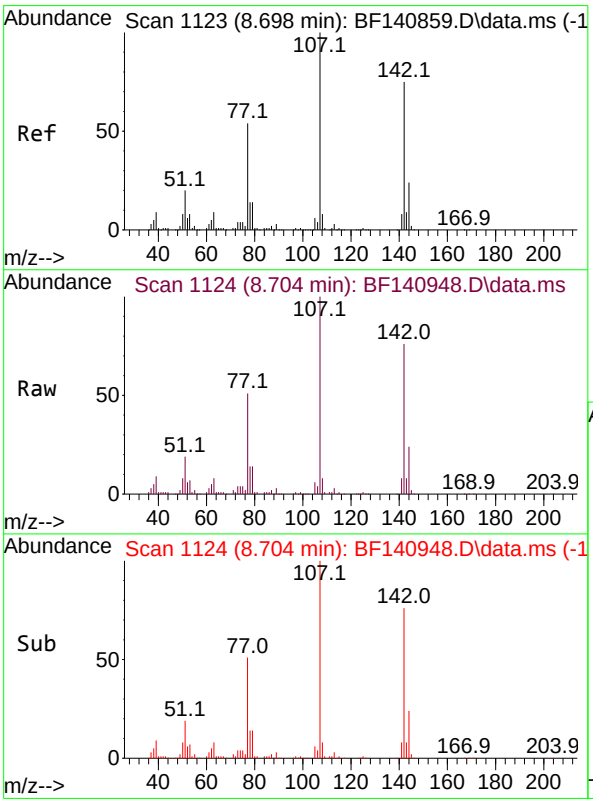
Ion	Ratio	Lower	Upper
113	100		
55	139.4	132.3	172.3
56	109.8	100.3	140.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

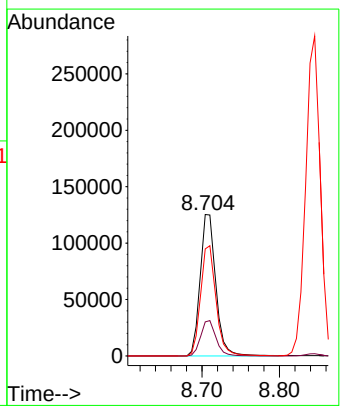
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

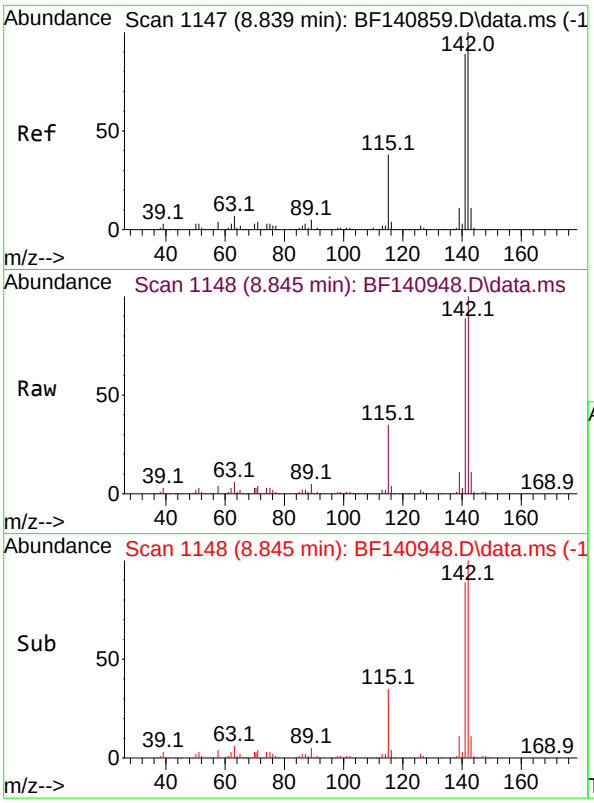


#36
4-Chloro-3-methylphenol
Concen: 49.233 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:107 Resp: 176282

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.2
142	75.8	60.3	90.5

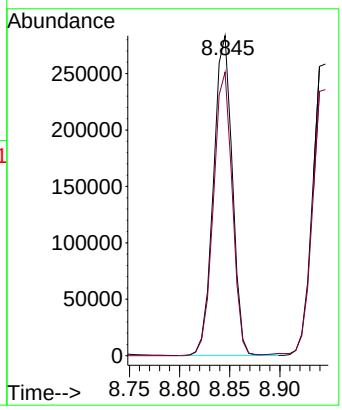




#37
2-Methylnaphthalene
Concen: 48.635 ng
RT: 8.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:142 Resp: 36973

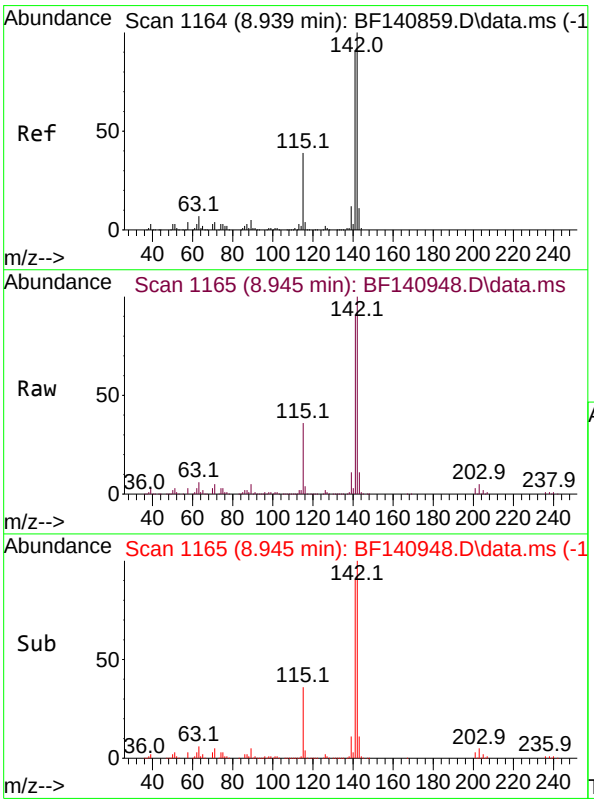
Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.0	106.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

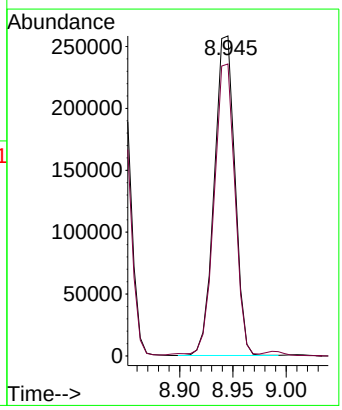
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

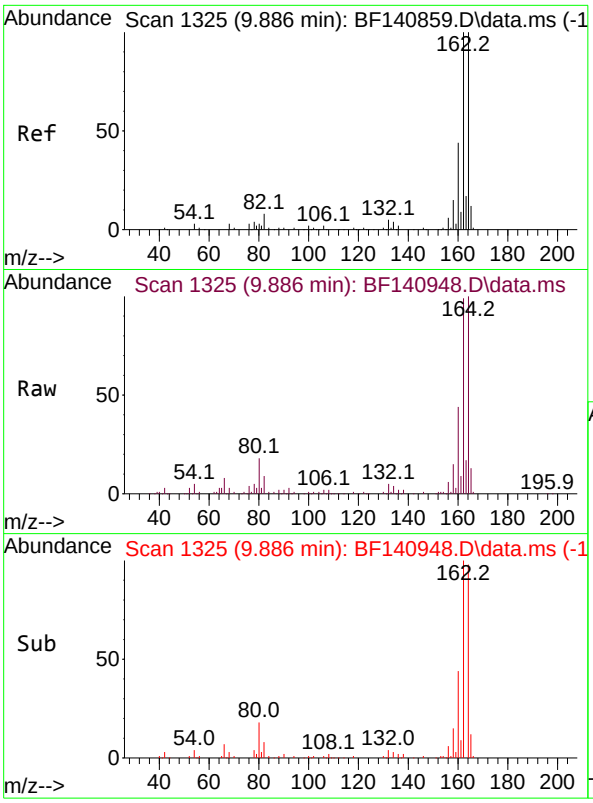


#38
1-Methylnaphthalene
Concen: 46.215 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:142 Resp: 347475

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.4	110.0

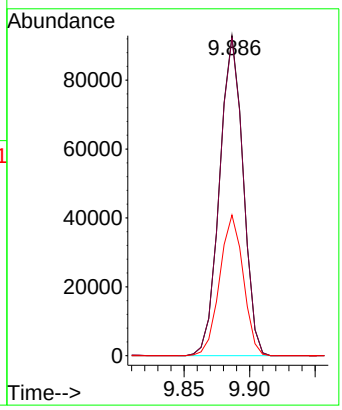




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:164 Resp: 11552

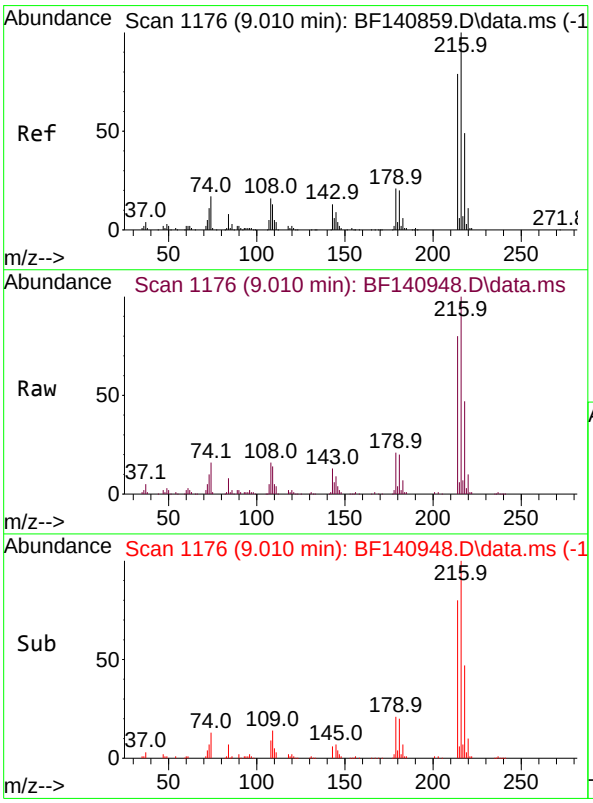
Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.9	119.9
160	43.9	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

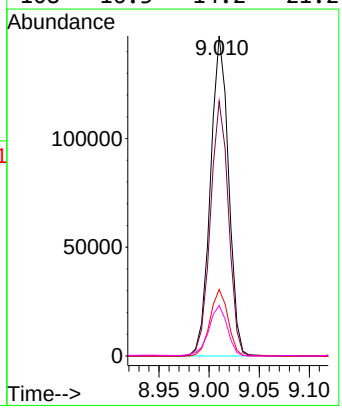
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

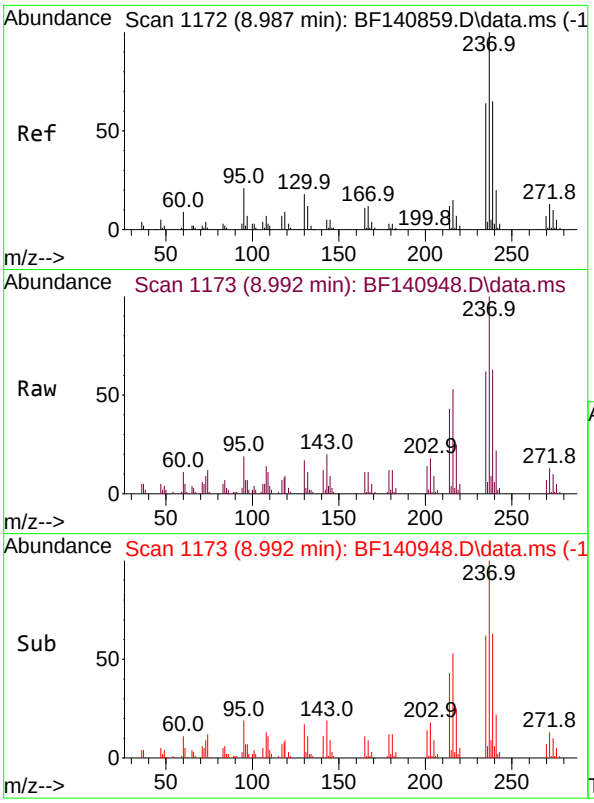


#40
1,2,4,5-Tetrachlorobenzene
Concen: 52.053 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:216 Resp: 184825

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.6	95.4
179	20.4	17.0	25.4
108	16.3	14.2	21.2

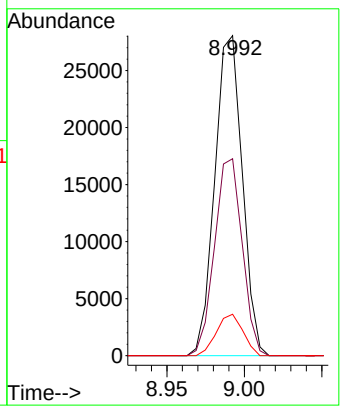




#41
Hexachlorocyclopentadiene
Concen: 40.992 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:237 Resp: 3464

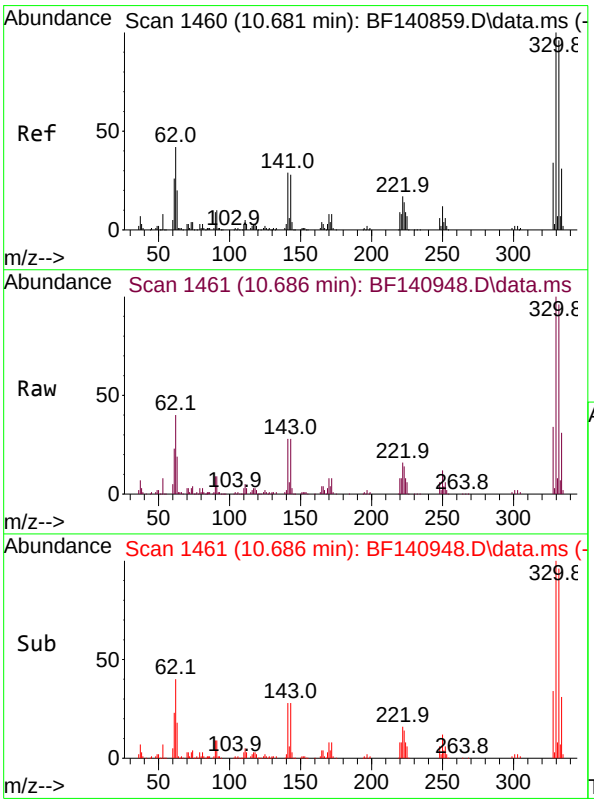
Ion	Ratio	Lower	Upper
237	100		
235	61.5	43.7	83.7
272	12.9	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

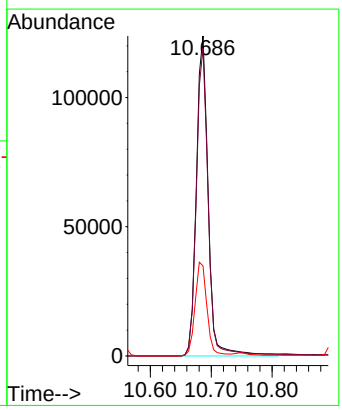
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

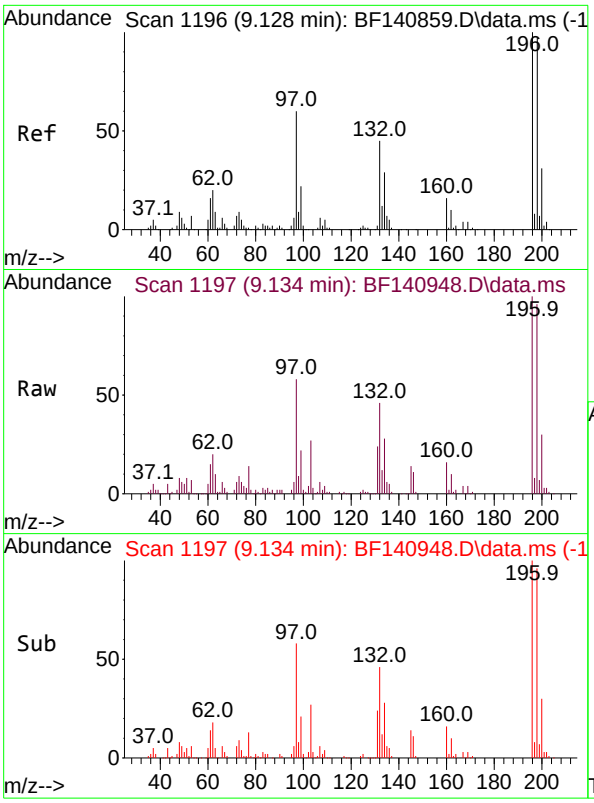


#42
2,4,6-Tribromophenol
Concen: 122.376 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:330 Resp: 167201

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.2	114.4
141	29.4	24.9	37.3

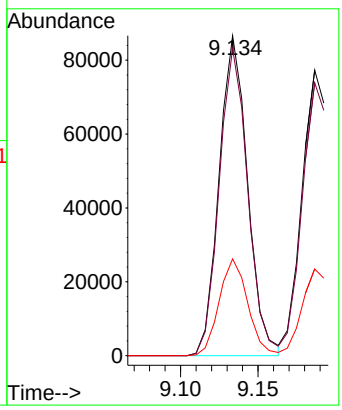




#43
2,4,6-Trichlorophenol
Concen: 50.964 ng
RT: 9.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:196 Resp: 11080

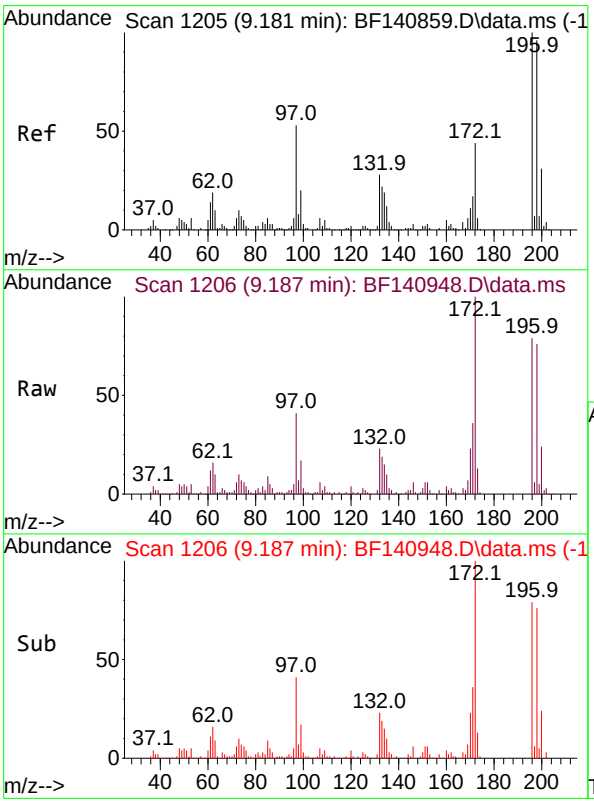
Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.4	116.0
200	30.2	24.5	36.7



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

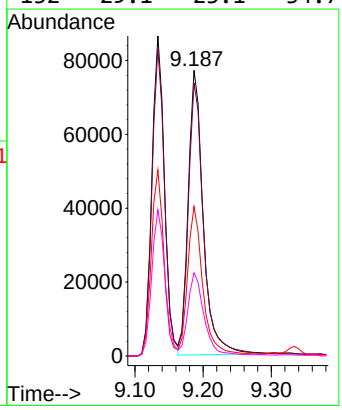
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

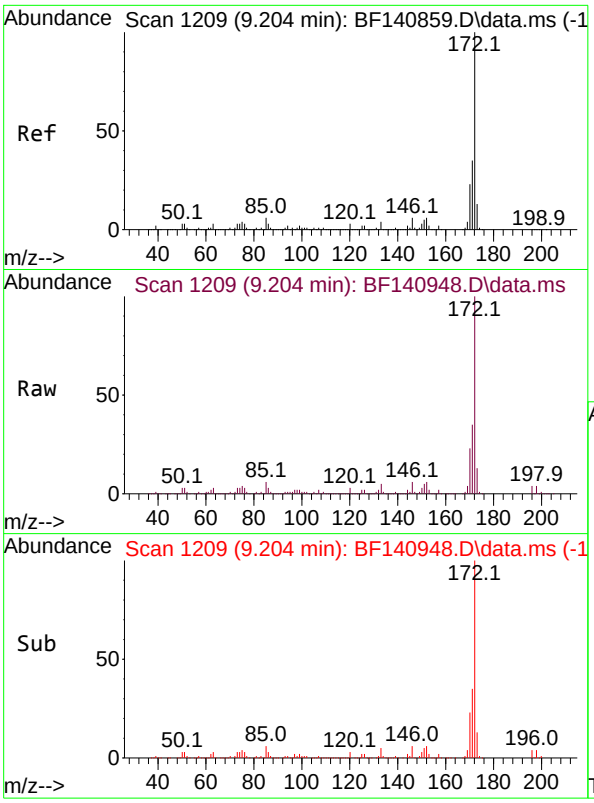


#44
2,4,5-Trichlorophenol
Concen: 49.337 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:196 Resp: 117901

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.2	115.8
97	52.3	42.2	63.4
132	29.1	23.1	34.7

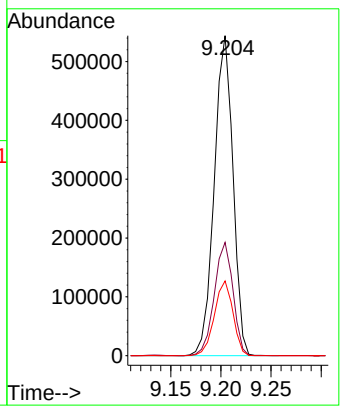




#45
2-Fluorobiphenyl
Concen: 83.953 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:172 Resp: 70541

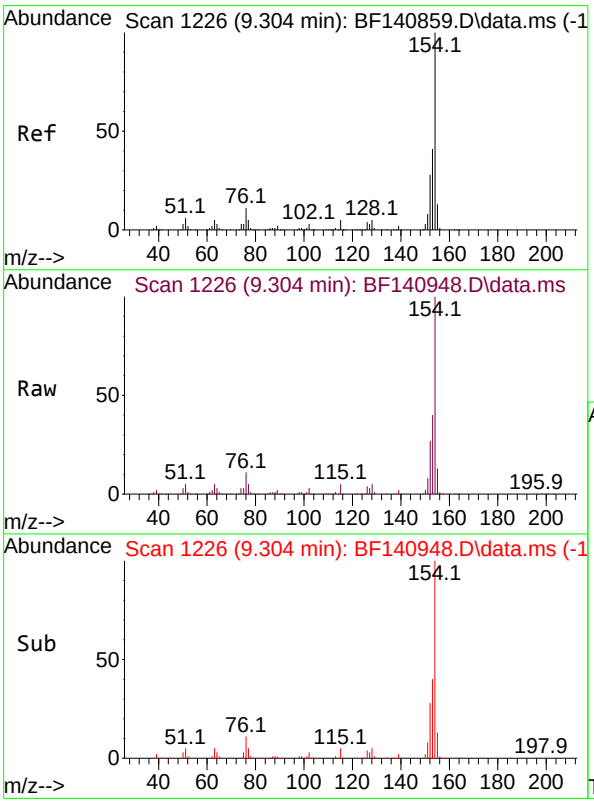
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.4	42.6
170	23.3	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

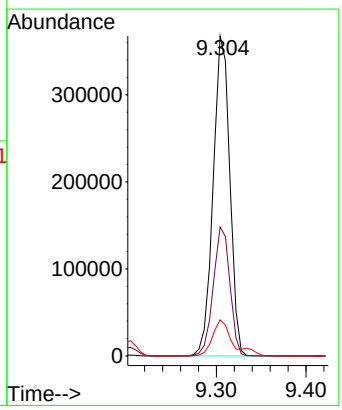
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

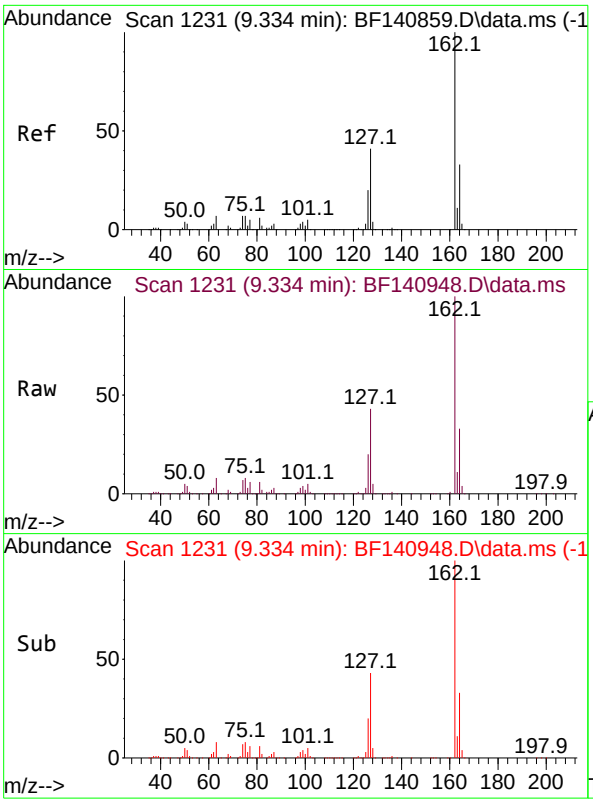


#46
1,1'-Biphenyl
Concen: 51.455 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:154 Resp: 472666

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.8	60.8
76	11.3	0.0	31.0

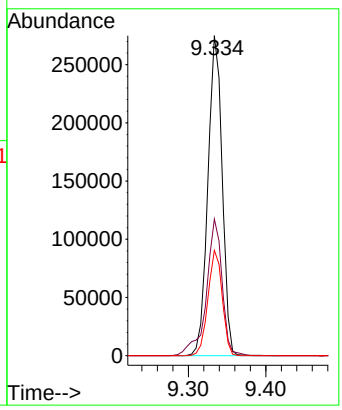




#47
2-Chloronaphthalene
Concen: 50.113 ng
RT: 9.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

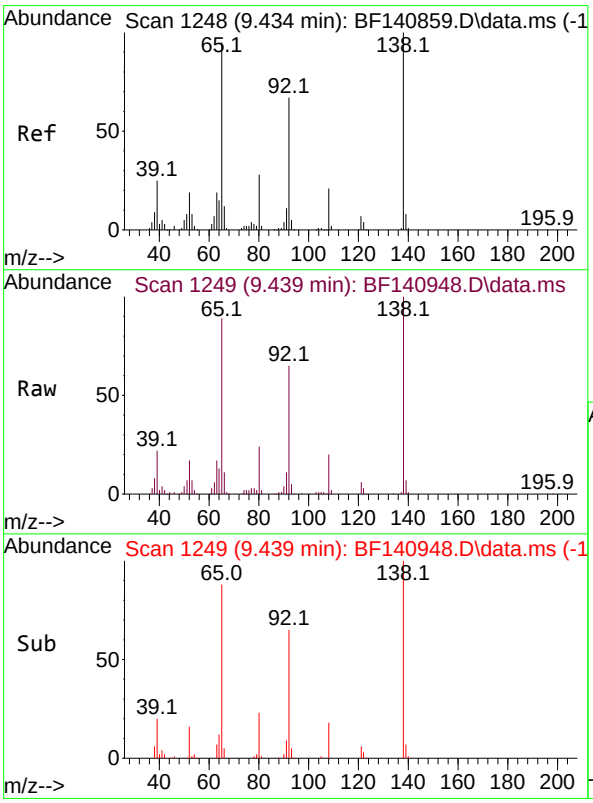
Tgt Ion:162 Resp: 35216

Ion	Ratio	Lower	Upper
162	100		
127	42.7	33.5	50.3
164	32.9	26.2	39.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

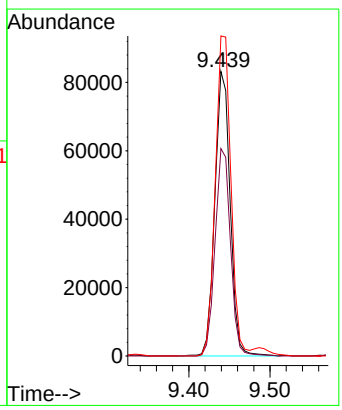
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

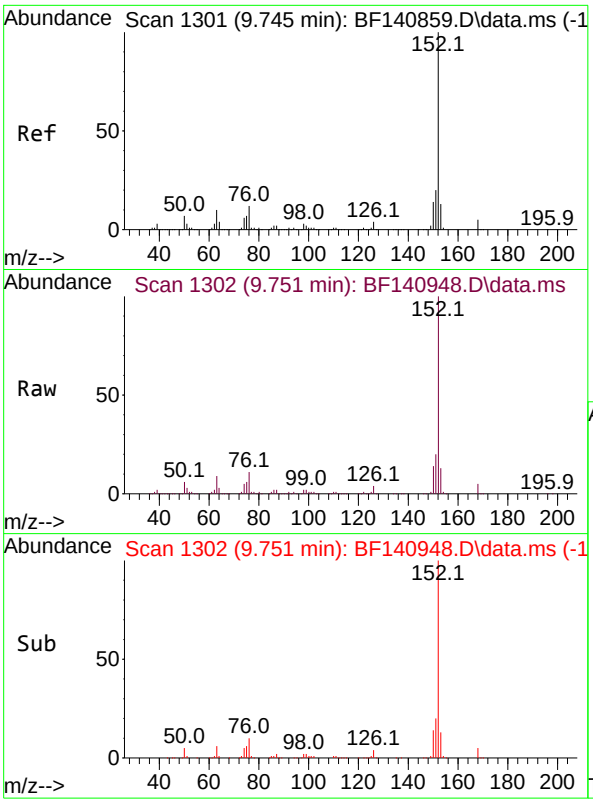


#48
2-Nitroaniline
Concen: 51.395 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 65 Resp: 109079

Ion	Ratio	Lower	Upper
65	100		
92	72.9	56.3	84.5
138	112.5	83.8	125.6

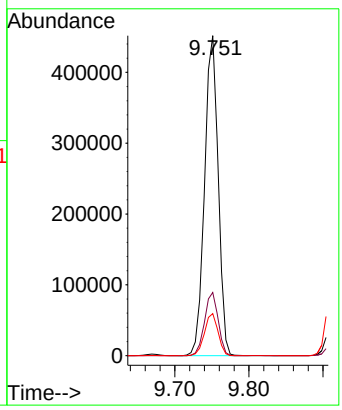




#49
Acenaphthylene
Concen: 55.834 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

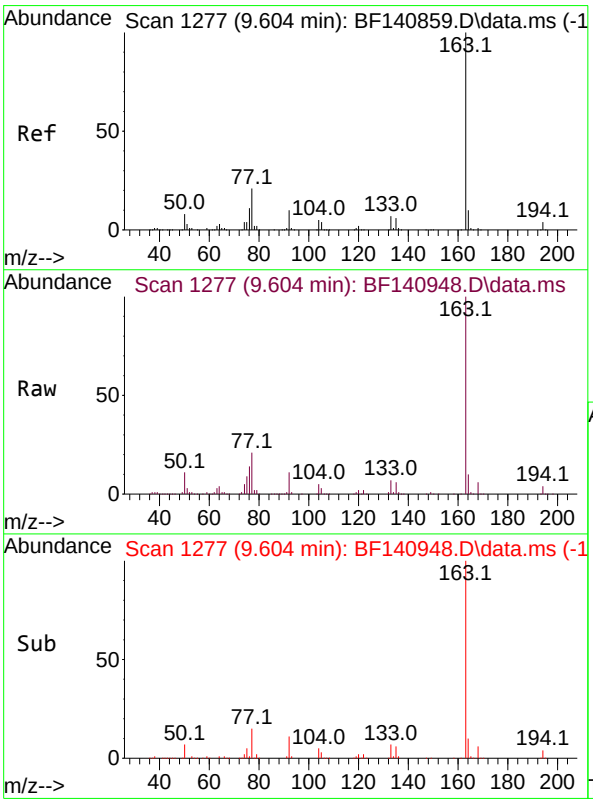
Tgt Ion:152 Resp: 57662

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.0	24.0
153	13.1	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

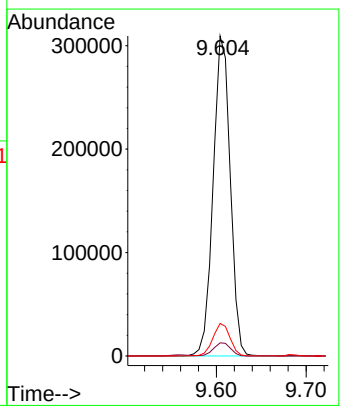
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

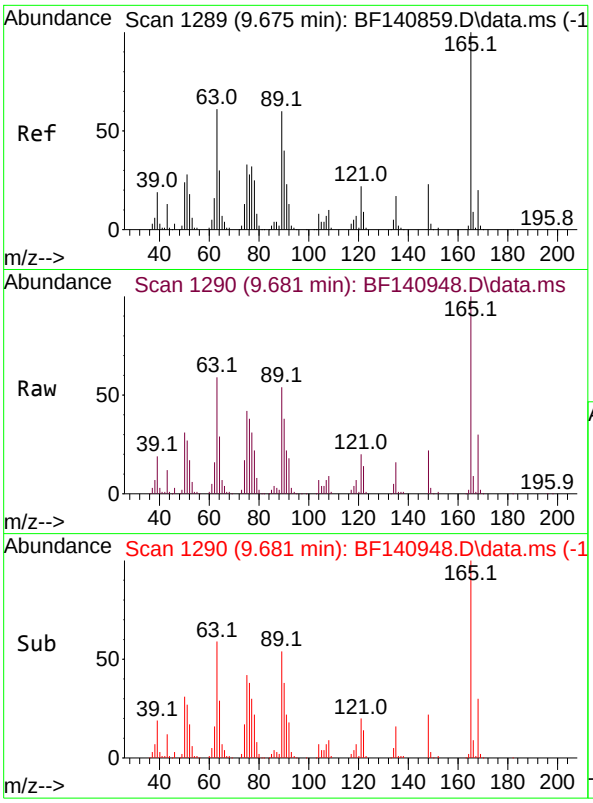


#50
Dimethylphthalate
Concen: 50.222 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:163 Resp: 409034

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.1	8.1	12.1

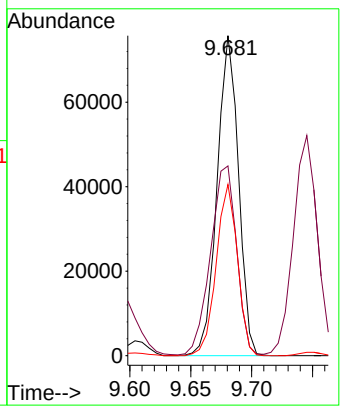




#51
2,6-Dinitrotoluene
Concen: 49.668 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:165 Resp: 9247

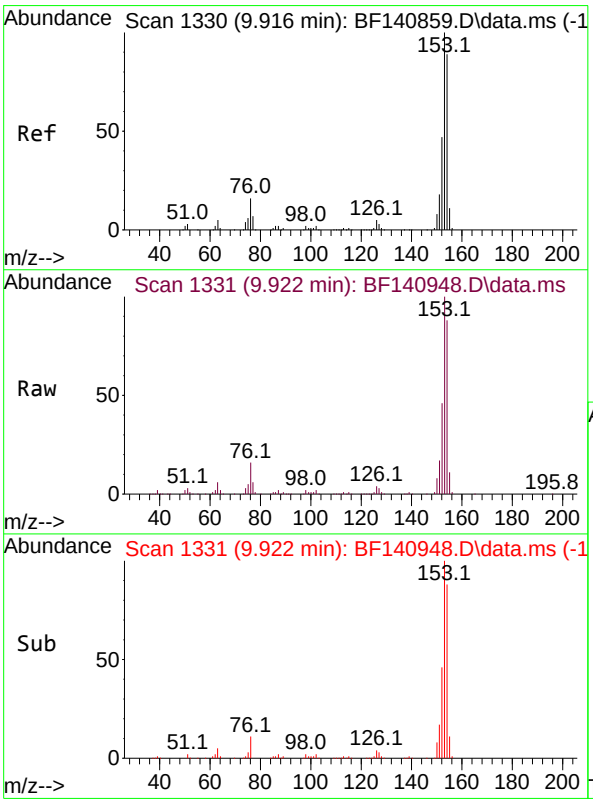
Ion	Ratio	Lower	Upper
165	100		
63	59.3	49.7	74.5
89	53.5	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

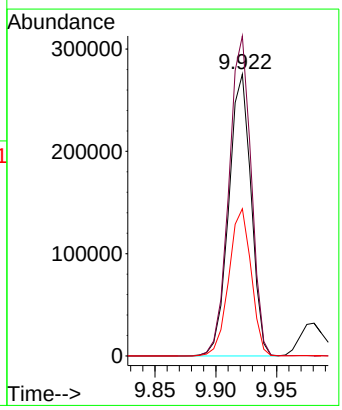
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

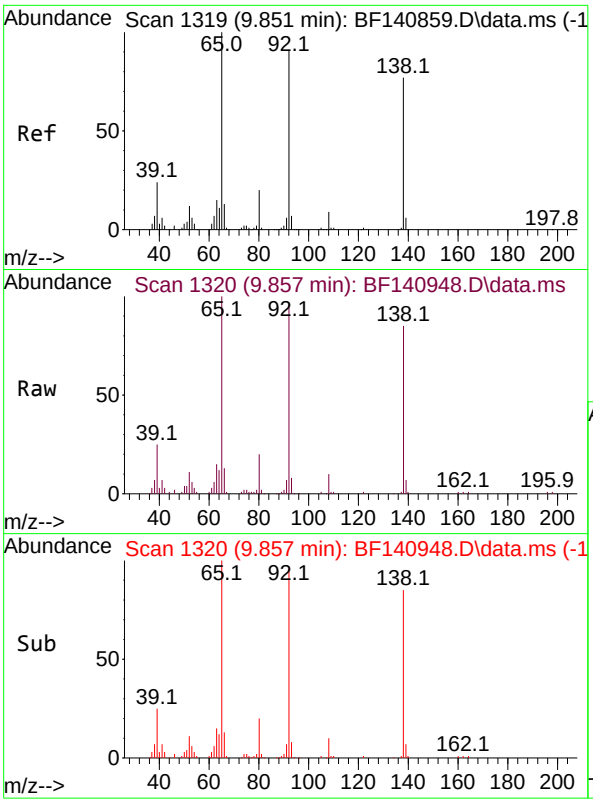


#52
Acenaphthene
Concen: 53.237 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:154 Resp: 351200

Ion	Ratio	Lower	Upper
154	100		
153	113.6	89.9	134.9
152	52.3	42.6	63.8

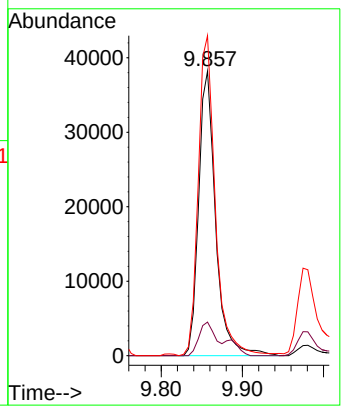




#53
3-Nitroaniline
Concen: 30.057 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:138 Resp: 5553

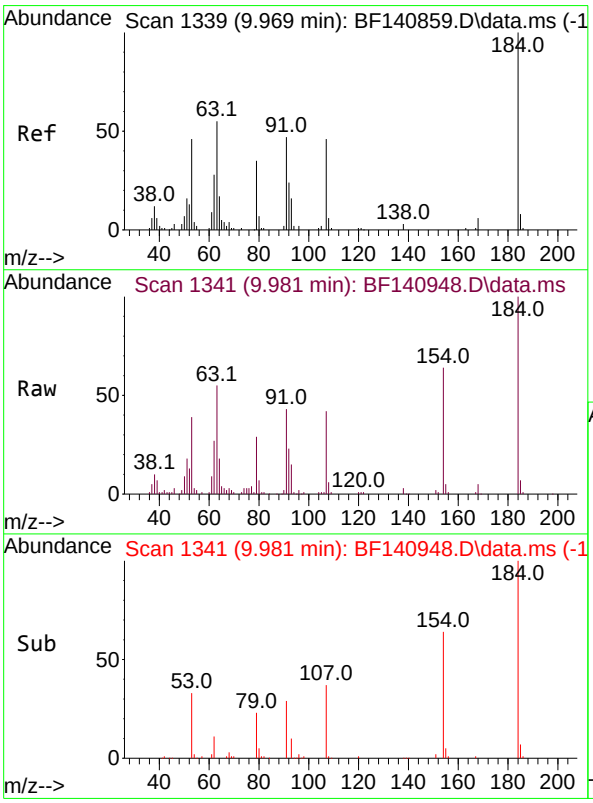
Ion	Ratio	Lower	Upper
138	100		
108	11.8	9.0	13.4
92	112.5	95.5	143.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

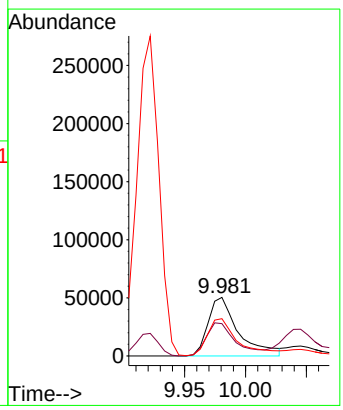
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

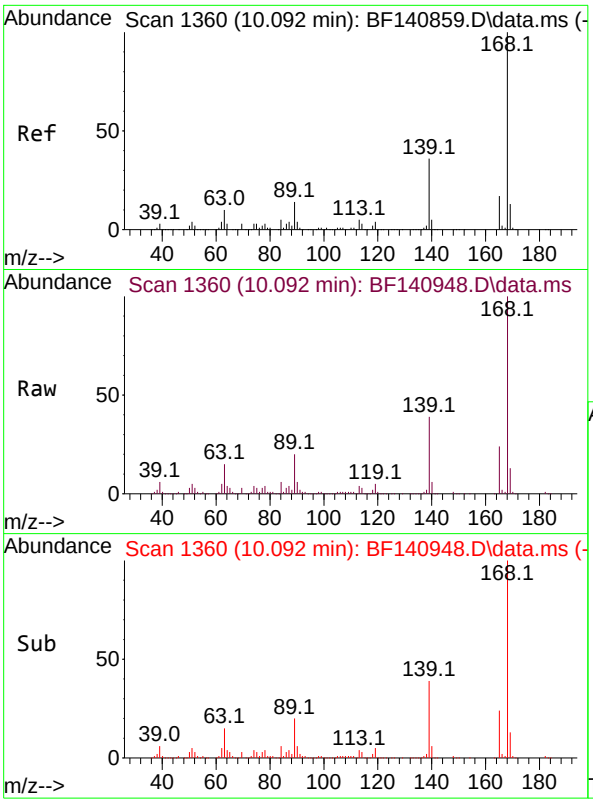


#54
2,4-Dinitrophenol
Concen: 95.155 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:184 Resp: 87671

Ion	Ratio	Lower	Upper
184	100		
63	55.3	51.6	77.4
154	63.7	56.1	84.1

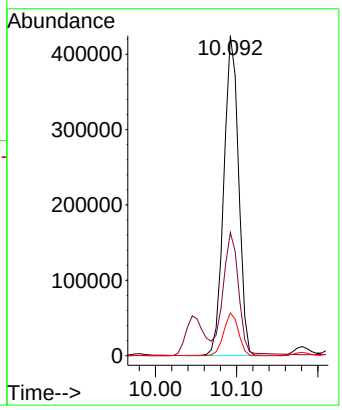




#55
Dibenzofuran
Concen: 52.577 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:168 Resp: 53745

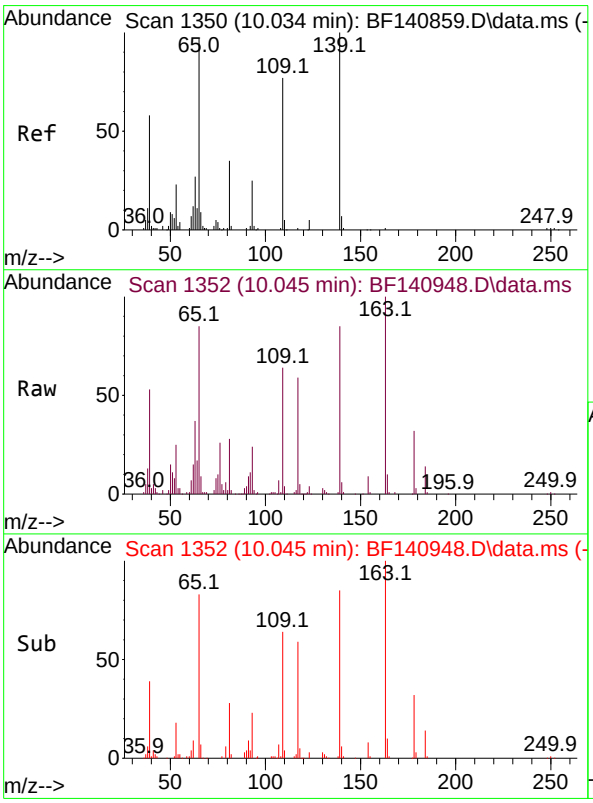
Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.1	46.7
169	13.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

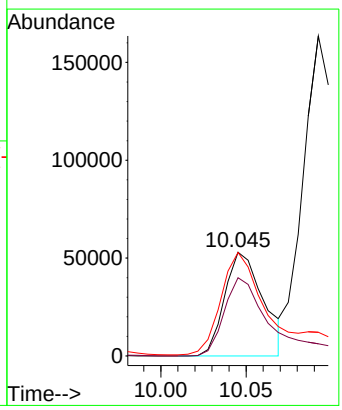
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

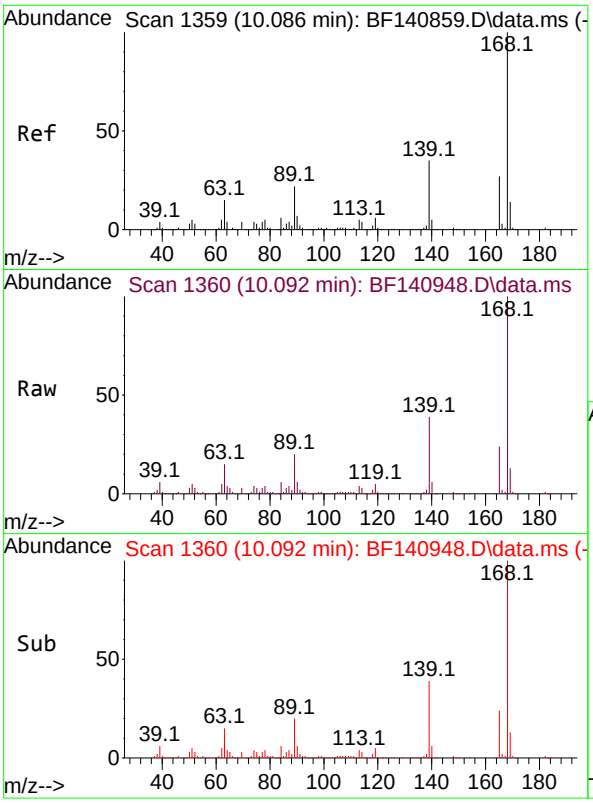


#56
4-Nitrophenol
Concen: 83.625 ng
RT: 10.045 min Scan# 1352
Delta R.T. 0.011 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:139 Resp: 83327

Ion	Ratio	Lower	Upper
139	100		
109	75.4	56.7	96.7
65	99.8	78.1	118.1

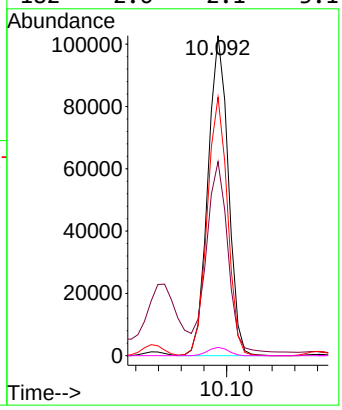




#57
2,4-Dinitrotoluene
Concen: 52.166 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:165 Resp: 12779

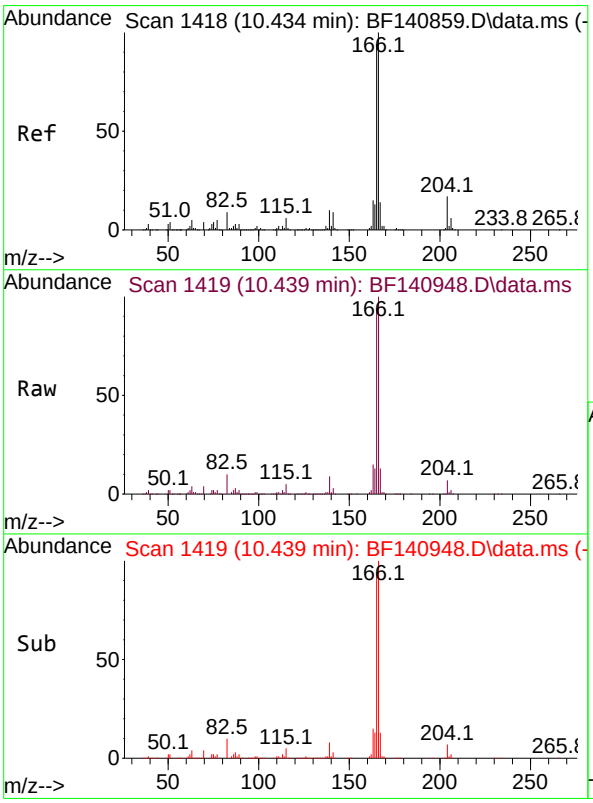
Ion	Ratio	Lower	Upper
165	100		
63	60.7	49.3	73.9
89	80.8	66.2	99.4
182	2.6	2.1	3.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations APPROVED

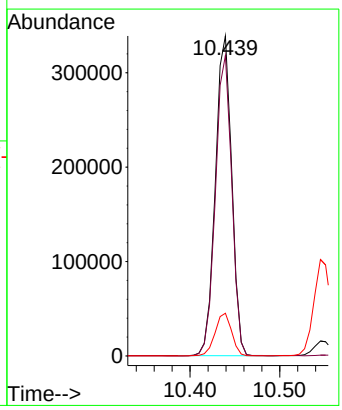
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

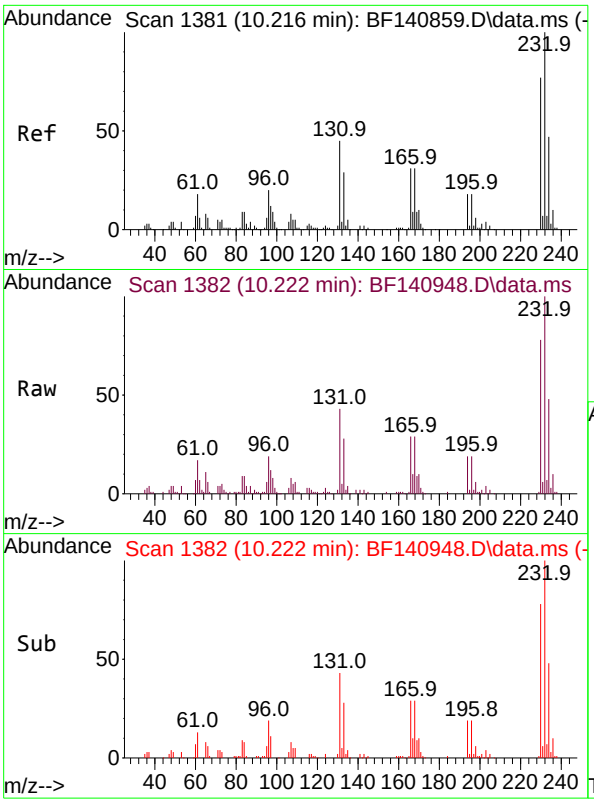


#58
Fluorene
Concen: 50.841 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:166 Resp: 428757

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.1	112.7
167	13.3	11.1	16.7

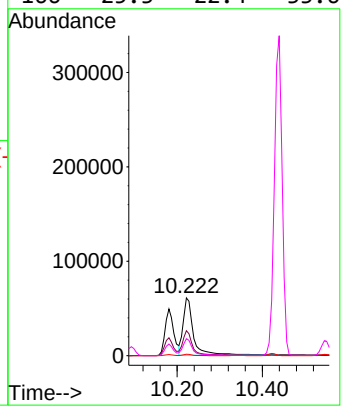




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.272 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:232 Resp: 10178

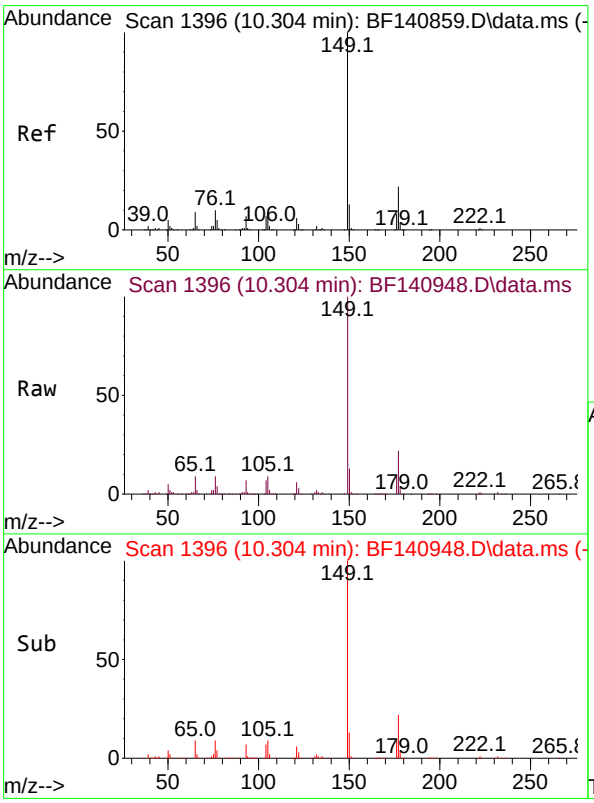
Ion	Ratio	Lower	Upper
232	100		
131	37.4	35.1	52.7
130	2.3	1.8	2.8
166	25.3	22.4	33.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

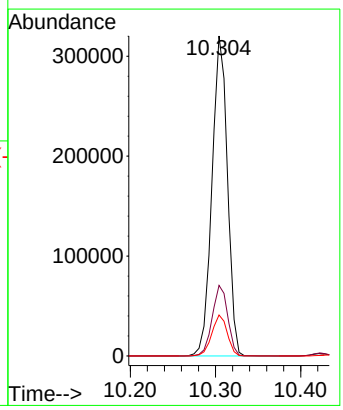
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

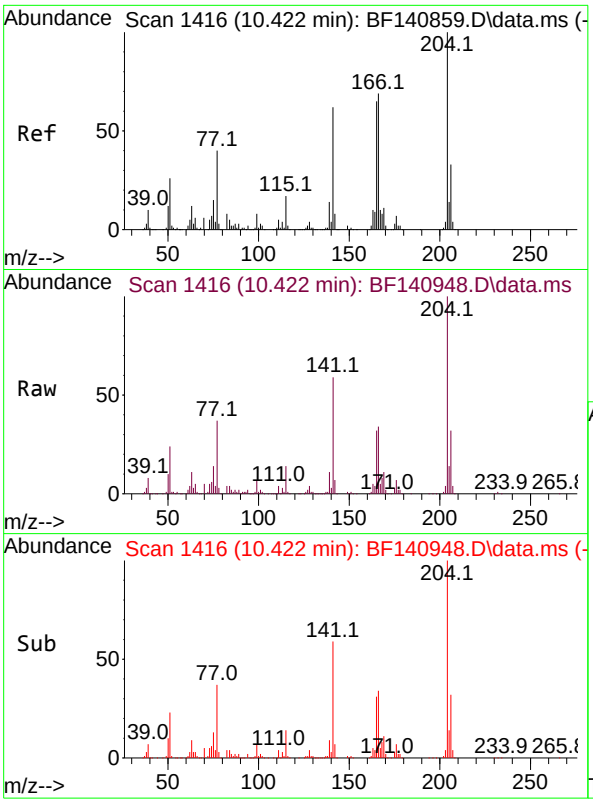


#60
Diethylphthalate
Concen: 47.990 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 405299

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.2	25.8
150	12.8	10.1	15.1

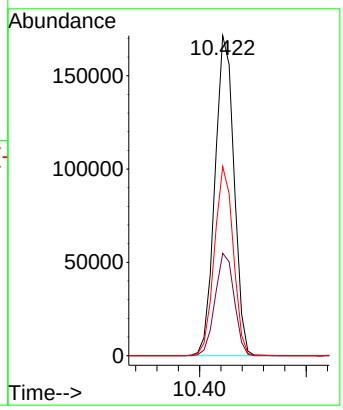




#61
4-Chlorophenyl-phenylether
Concen: 50.243 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:204 Resp: 21284

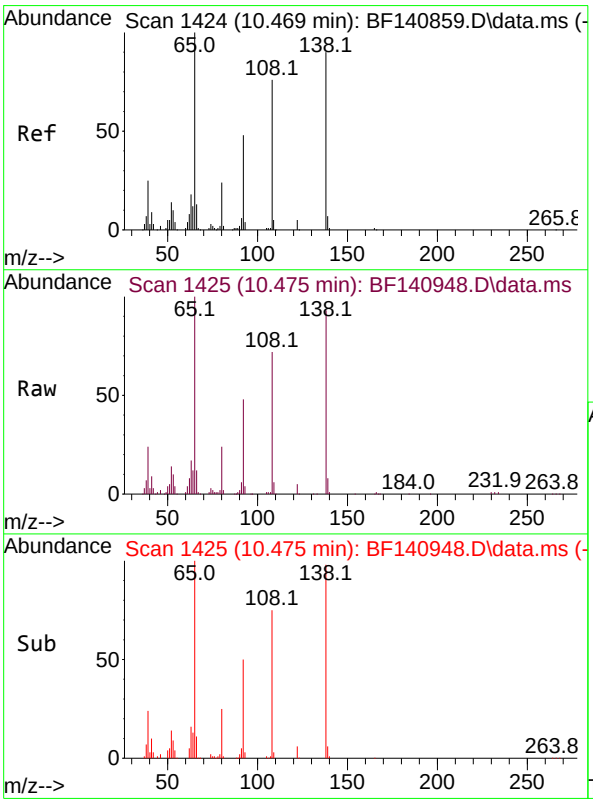
Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.5	39.7
141	59.1	50.0	75.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

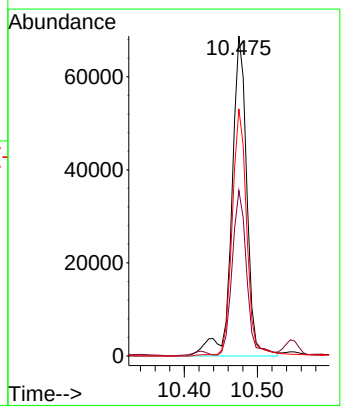
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

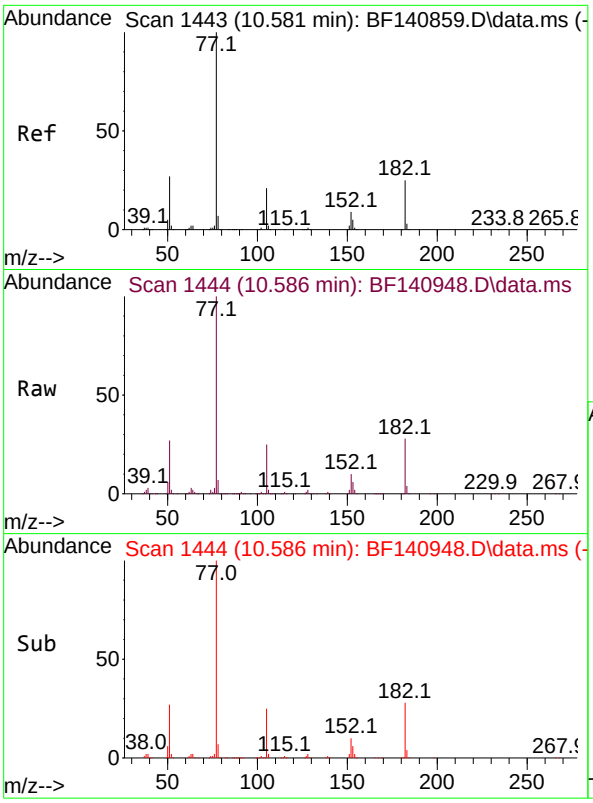


#62
4-Nitroaniline
Concen: 50.949 ng m
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:138 Resp: 98375

Ion	Ratio	Lower	Upper
138	100		
92	51.7	32.6	72.6
108	77.2	64.1	104.1

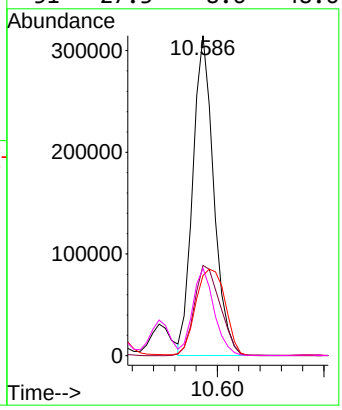




#63
Azobenzene
Concen: 54.056 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 77 Resp: 42919

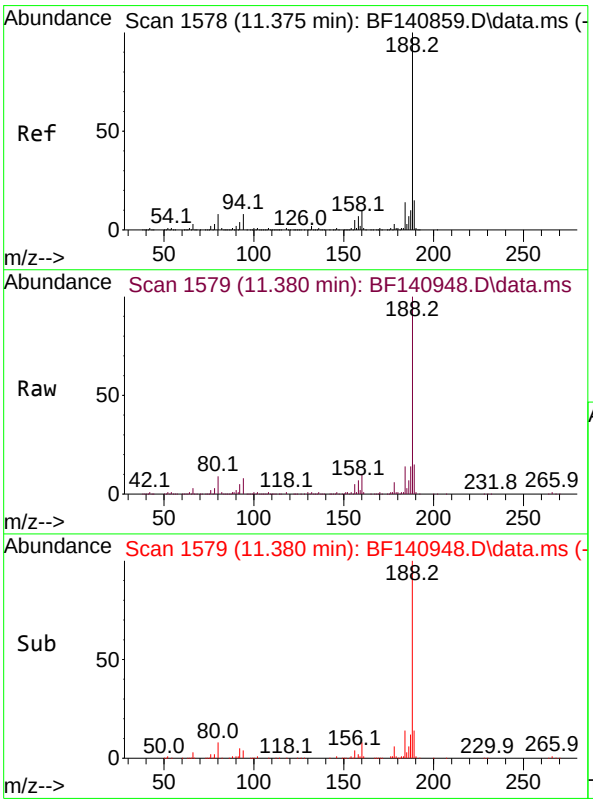
Ion	Ratio	Lower	Upper
77	100		
182	28.2	4.5	44.5
105	25.0	0.9	40.9
51	27.3	8.6	48.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

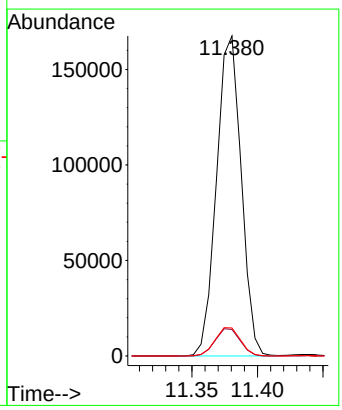
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

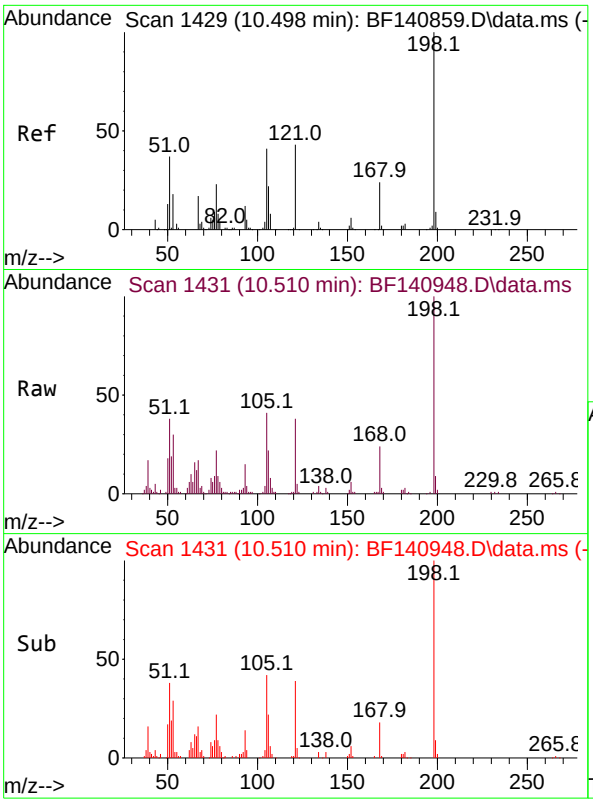


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:188 Resp: 219277

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.4	9.6
80	8.7	6.8	10.2

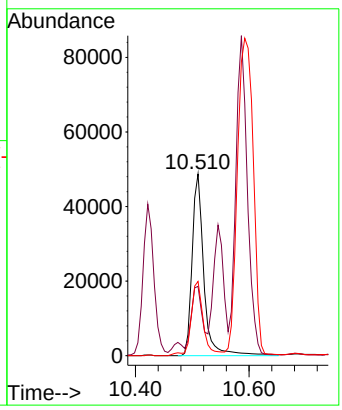




#65
4,6-Dinitro-2-methylphenol
Concen: 56.637 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:198 Resp: 7037

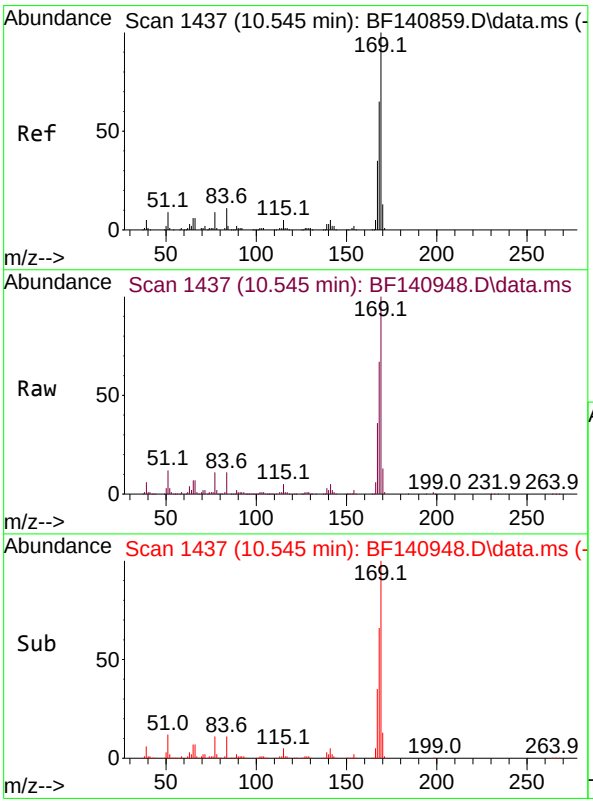
Ion	Ratio	Lower	Upper
198	100		
51	38.1	24.4	64.4
105	40.9	22.1	62.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

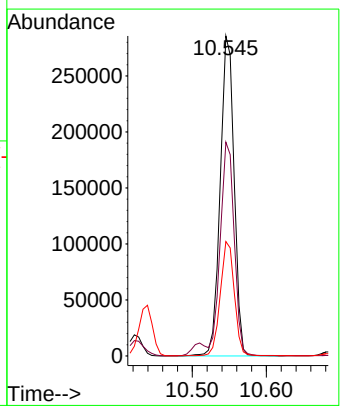
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

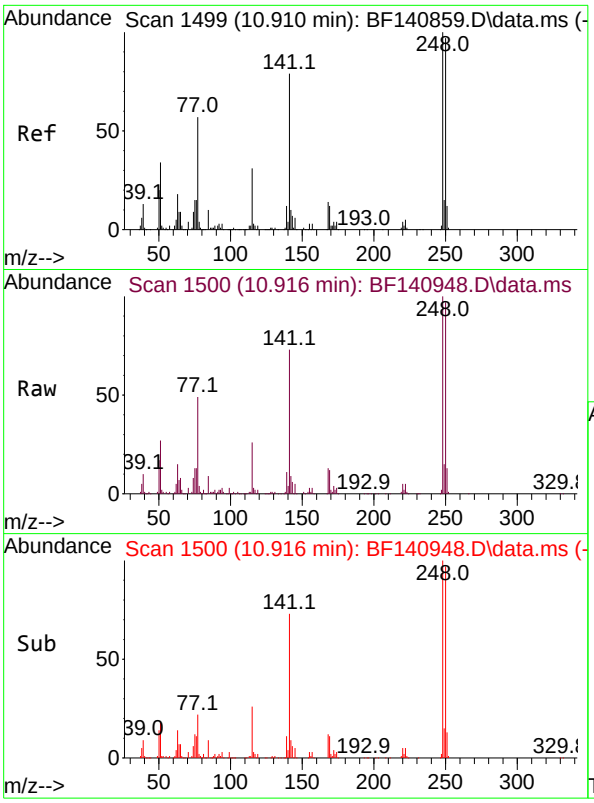


#66
n-Nitrosodiphenylamine
Concen: 55.234 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:169 Resp: 372378

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.4	80.0
167	35.7	28.3	42.5

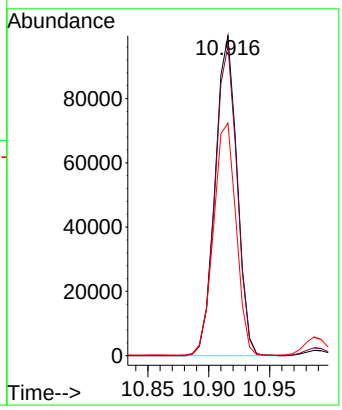




#67
4-Bromophenyl-phenylether
Concen: 50.908 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

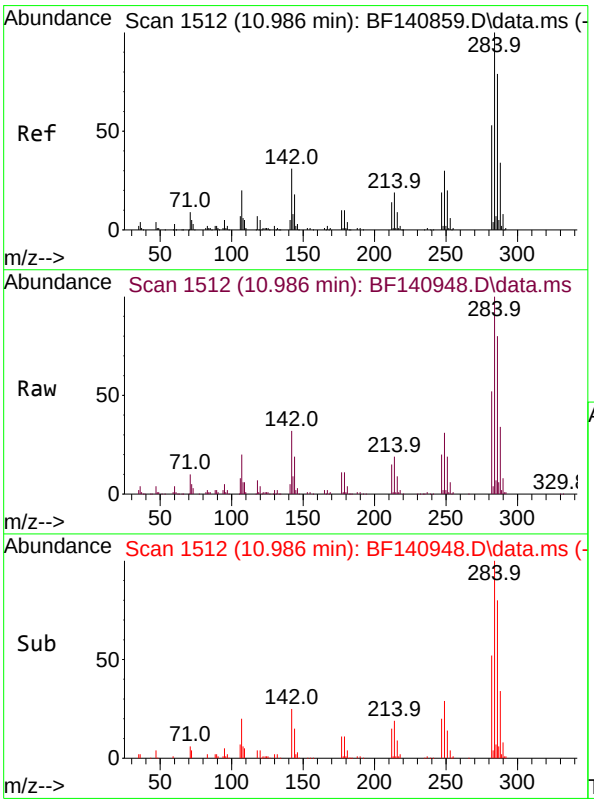
Tgt Ion:248 Resp: 12488

Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.4	116.2
141	72.6	62.9	94.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

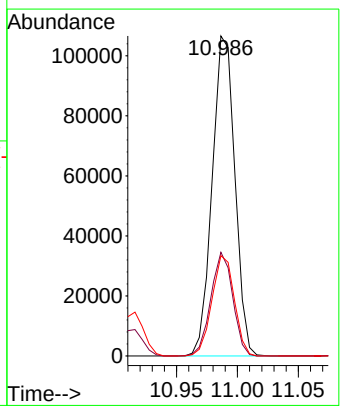
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

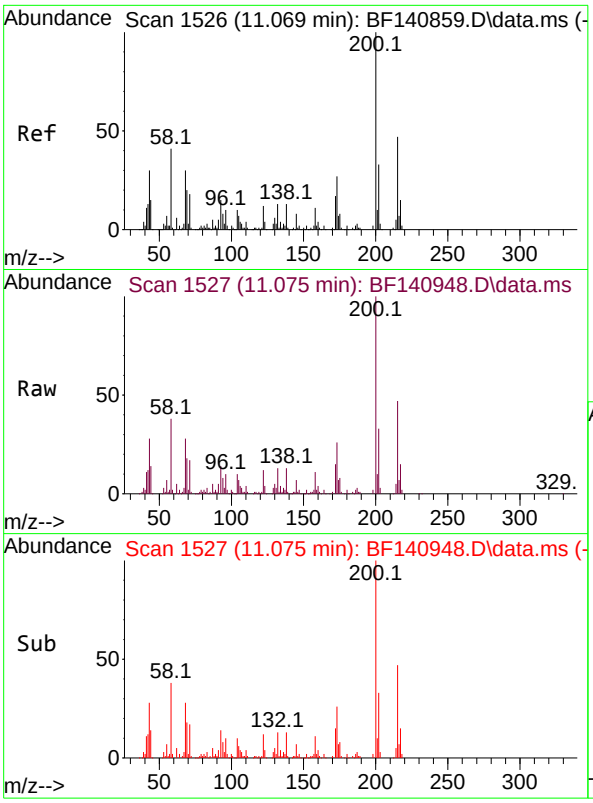


#68
Hexachlorobenzene
Concen: 49.700 ng
RT: 10.986 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:284 Resp: 138231

Ion	Ratio	Lower	Upper
284	100		
142	32.4	24.6	36.8
249	31.3	24.3	36.5

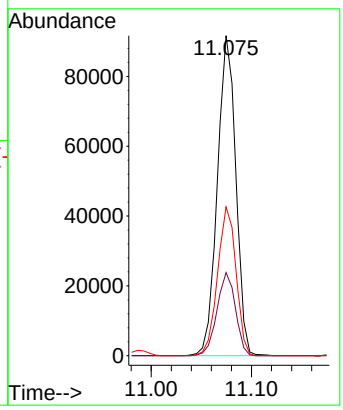




#69
Atrazine
Concen: 62.062 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:200 Resp: 11685

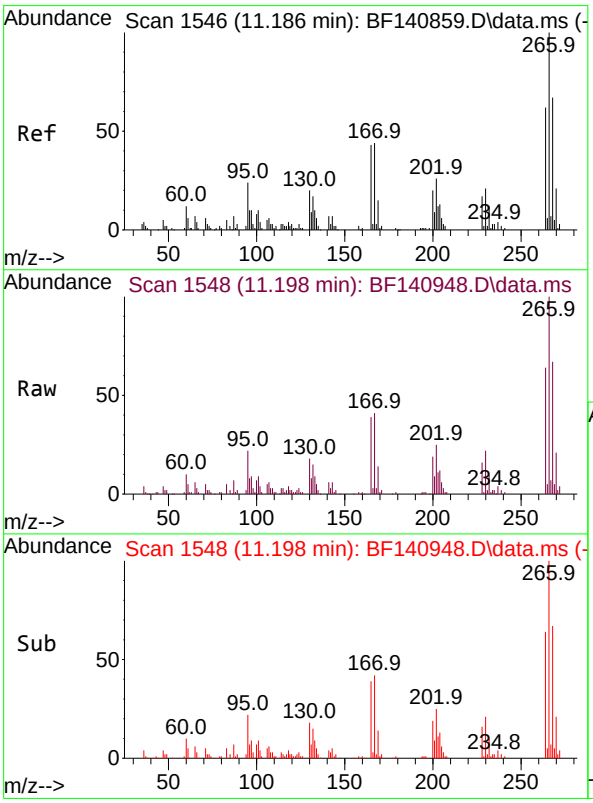
Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.6	46.6
215	46.5	26.7	66.7



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

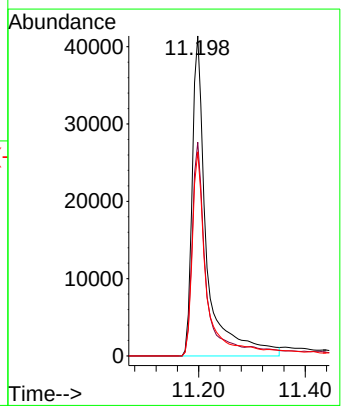
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

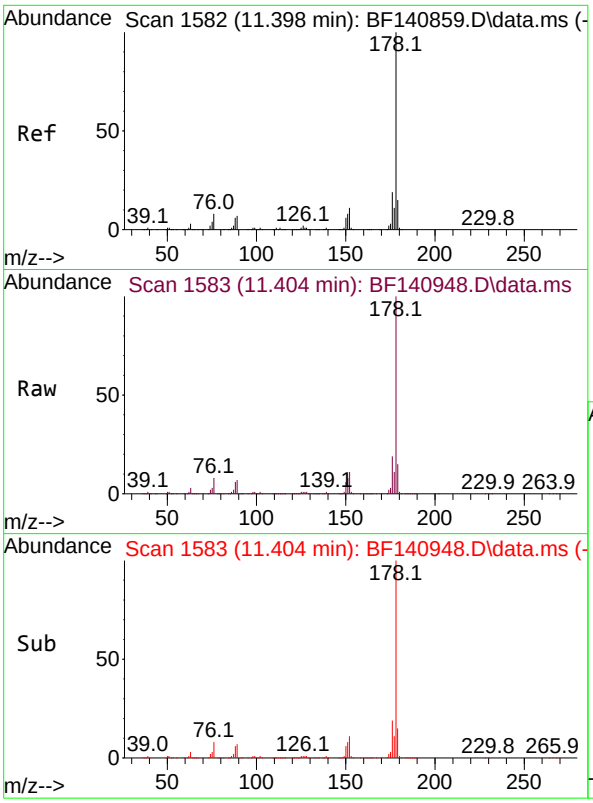


#70
Pentachlorophenol
Concen: 77.662 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:266 Resp: 78972

Ion	Ratio	Lower	Upper
266	100		
268	66.8	54.0	81.0
264	63.8	49.4	74.2

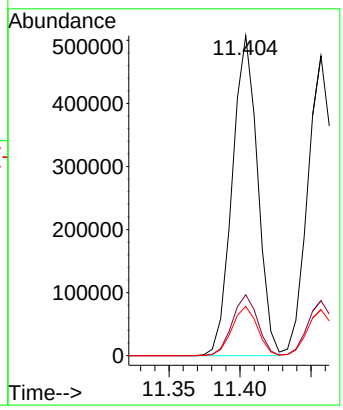




#71
Phenanthrene
Concen: 55.721 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

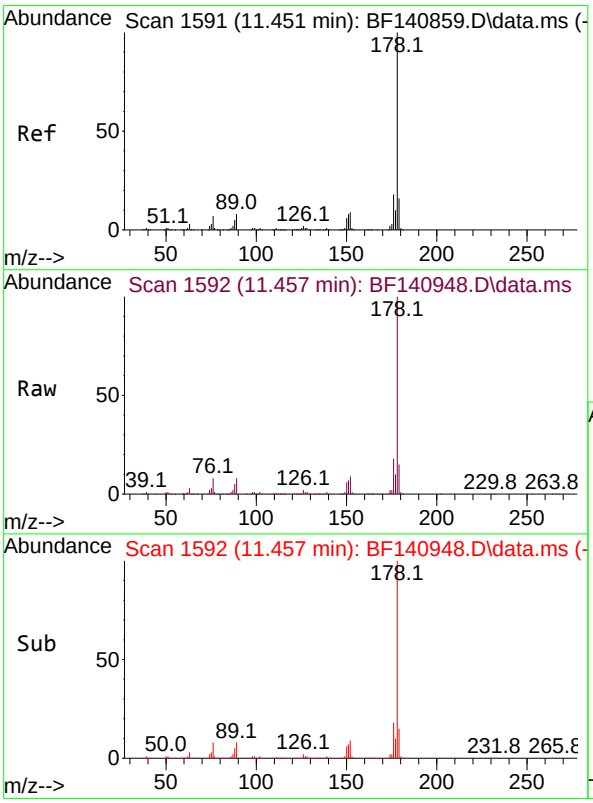
Tgt Ion:178 Resp: 62831

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.4	12.1	18.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

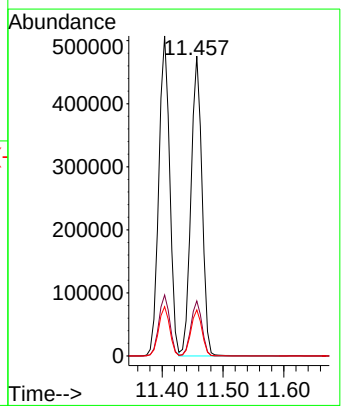
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

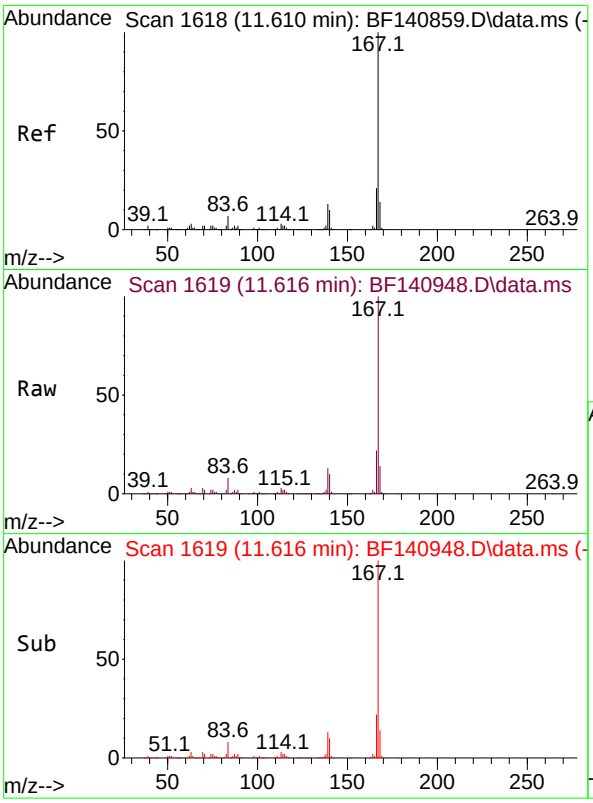


#72
Anthracene
Concen: 53.762 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:178 Resp: 597017

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	15.4	12.6	18.8

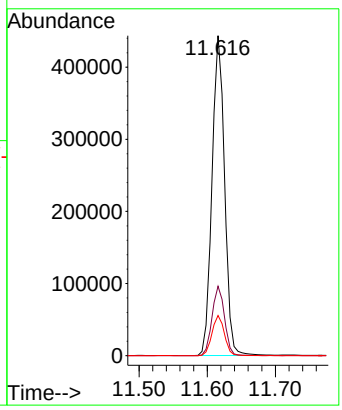




#73
Carbazole
Concen: 52.355 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

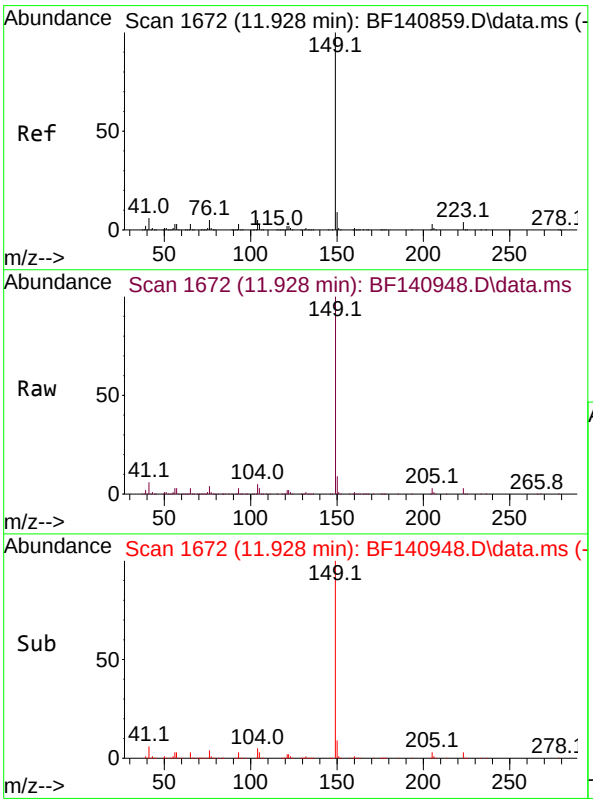
Tgt Ion:167 Resp: 56946

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	12.5	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

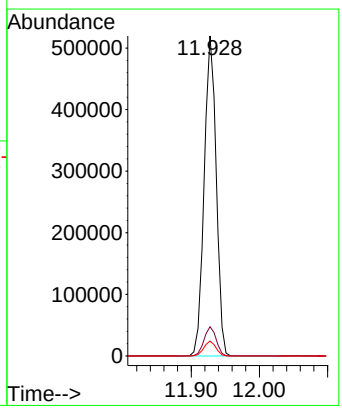
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

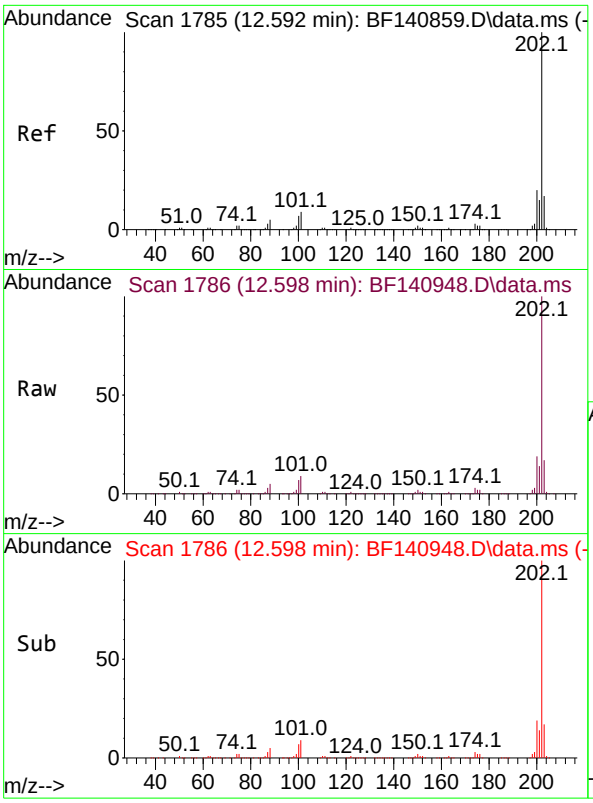


#74
Di-n-butylphthalate
Concen: 49.999 ng
RT: 11.928 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 638255

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.6	3.8	5.8

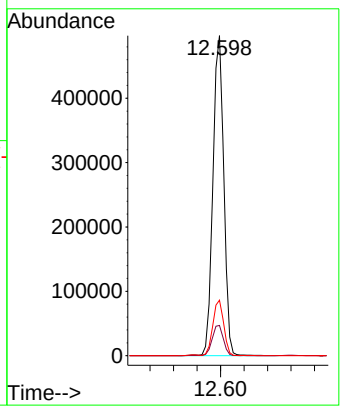




#75
Fluoranthene
Concen: 49.060 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:202 Resp: 63710

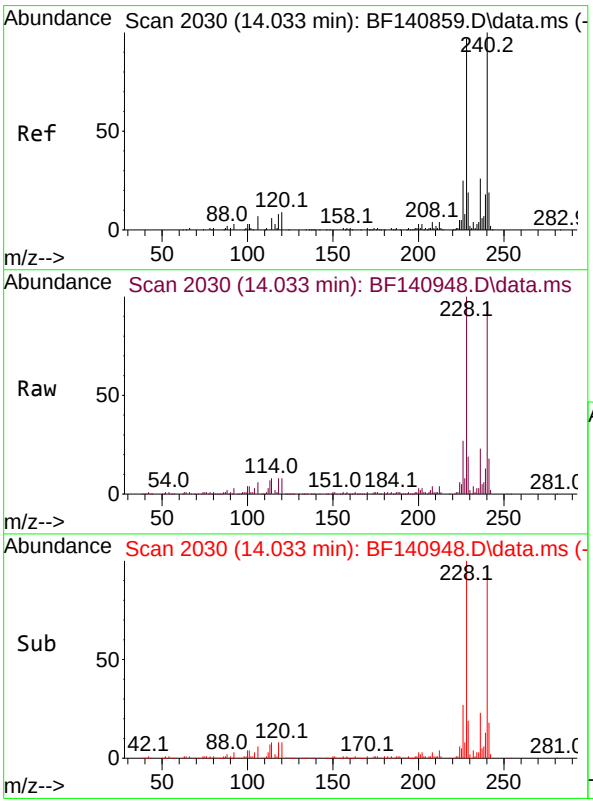
Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	29.3
203	17.4	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

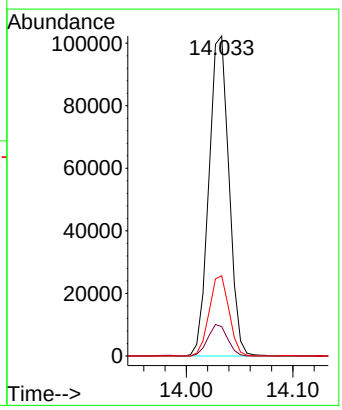
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

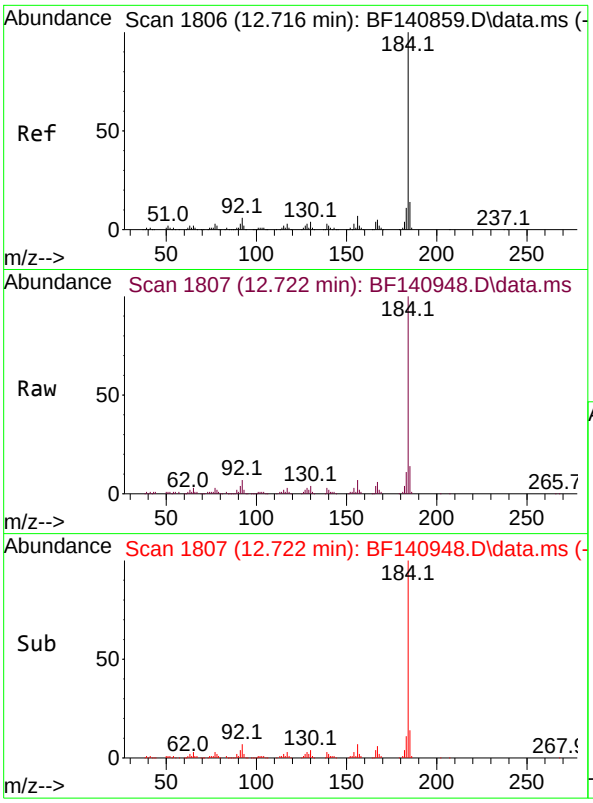


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:240 Resp: 133308

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.6	11.4
236	25.1	20.5	30.7

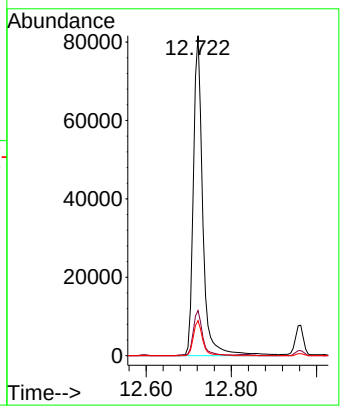




#77
Benzidine
Concen: 46.021 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

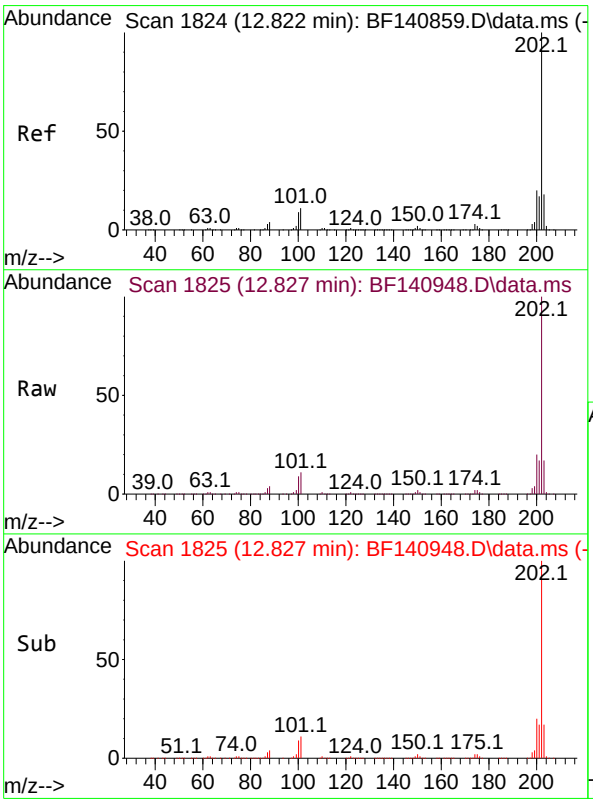
Tgt Ion:184 Resp: 12521

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.1	16.7
183	10.9	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

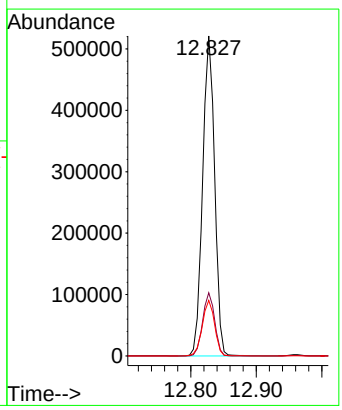
Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

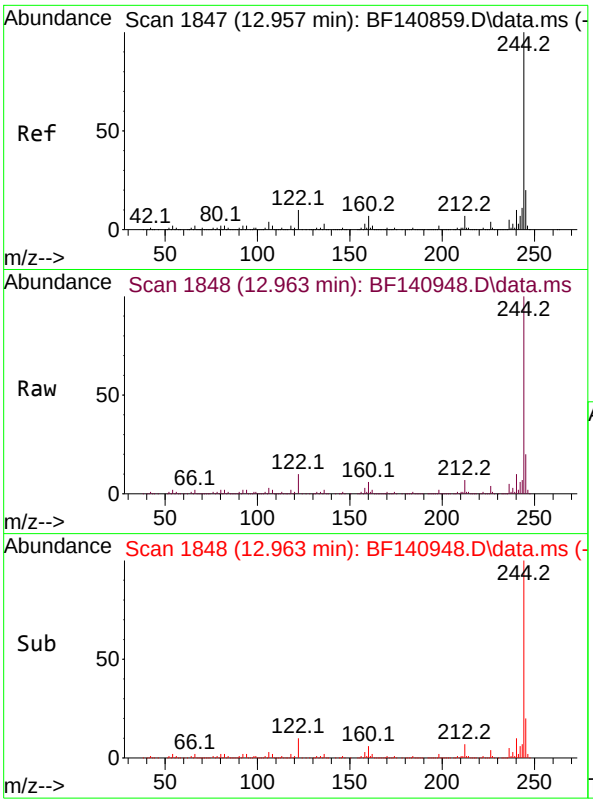


#78
Pyrene
Concen: 56.171 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:202 Resp: 665883

Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.1	24.1
203	17.4	14.2	21.4

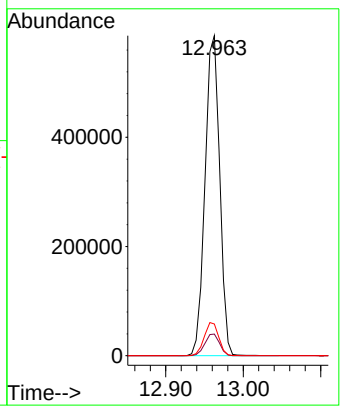




#79
Terphenyl-d14
Concen: 91.048 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:244 Resp: 76972

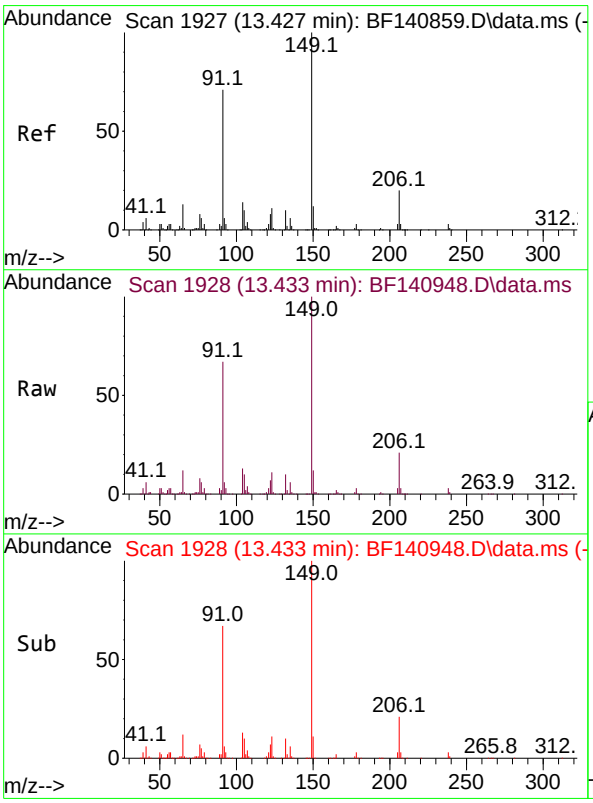
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	9.9	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

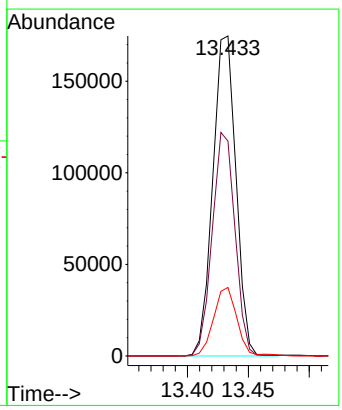
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

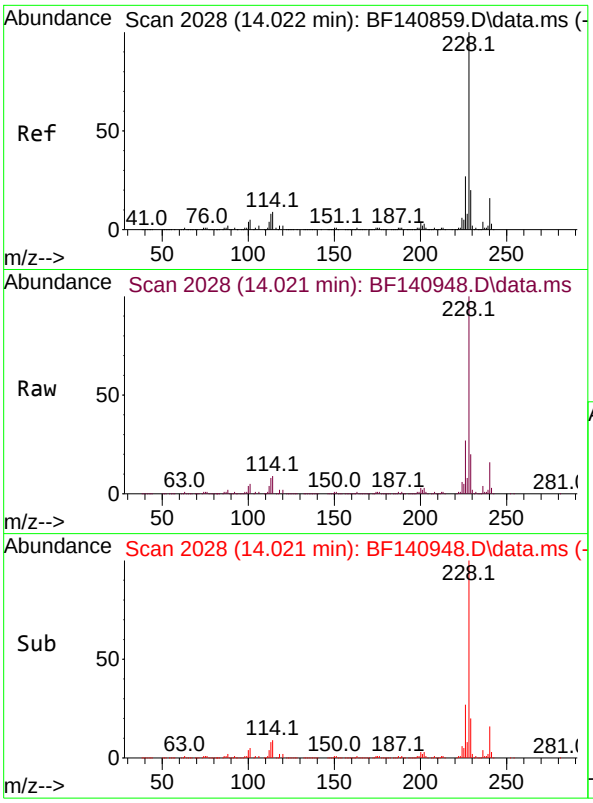


#80
Butylbenzylphthalate
Concen: 53.133 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 231762

Ion	Ratio	Lower	Upper
149	100		
91	67.1	56.7	85.1
206	21.4	16.4	24.6

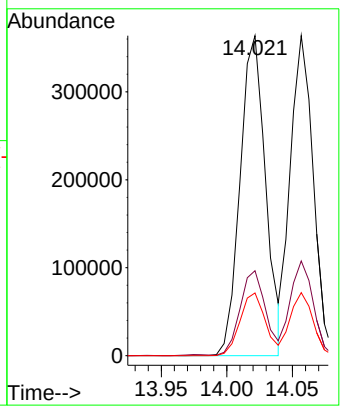




#81
Benzo(a)anthracene
Concen: 52.168 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

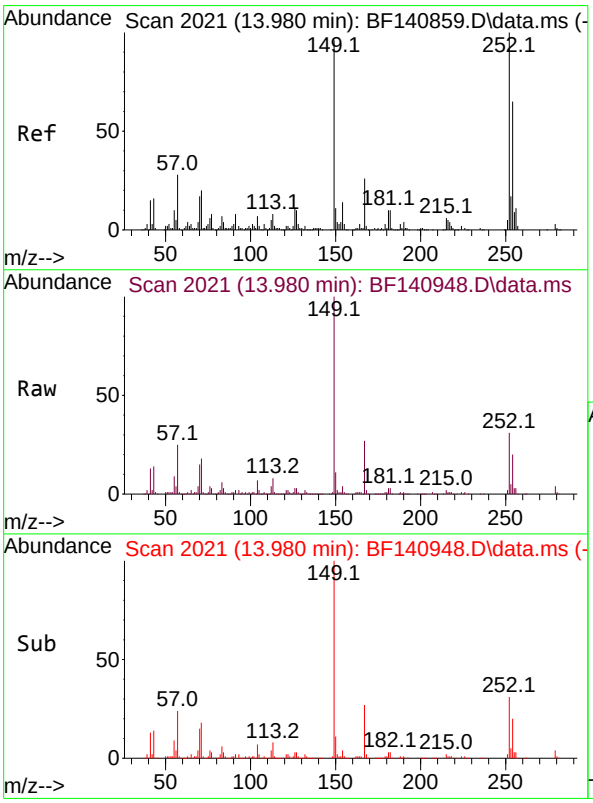
Tgt Ion:228 Resp: 49288

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.8	32.8
229	19.6	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

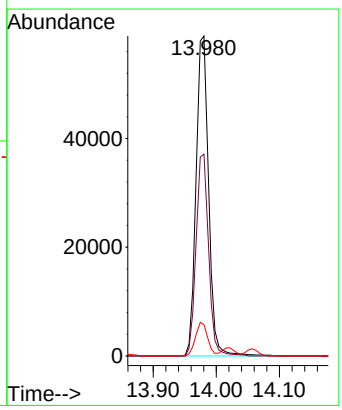
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

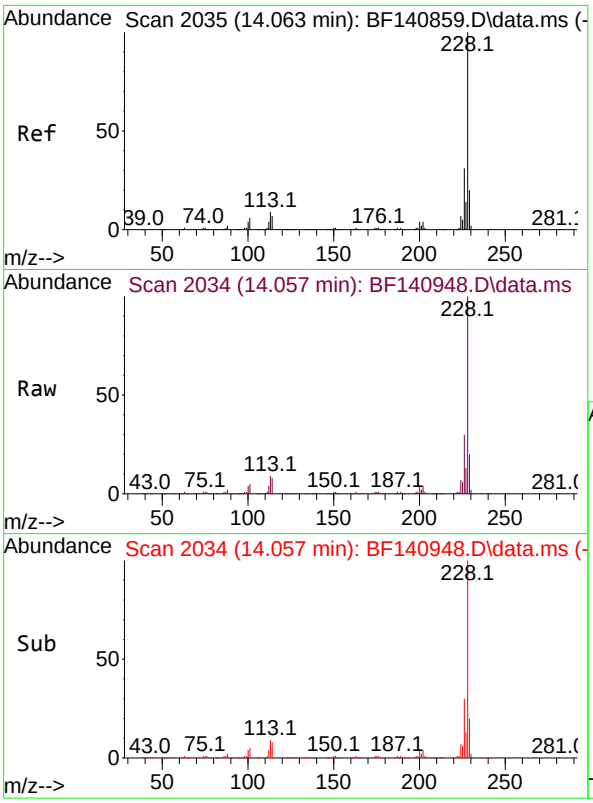


#82
3,3'-Dichlorobenzidine
Concen: 28.561 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:252 Resp: 81414

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.3	78.5
126	9.8	8.4	12.6

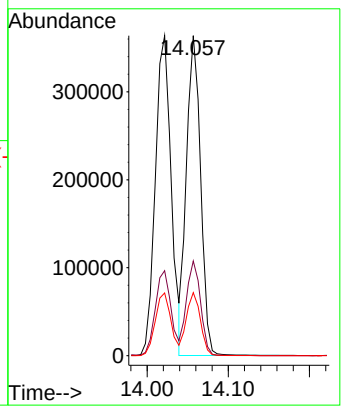




#83
Chrysene
Concen: 51.436 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:228 Resp: 44190

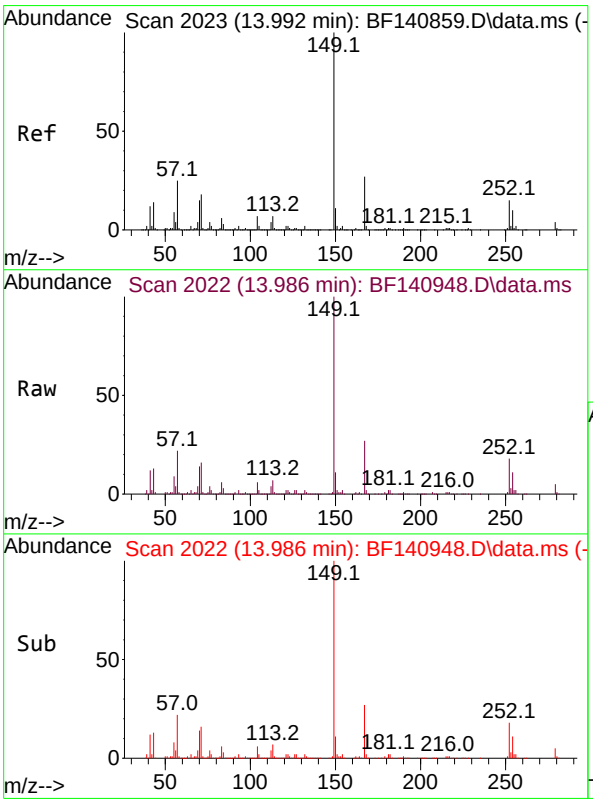
Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.1	36.1
229	19.7	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

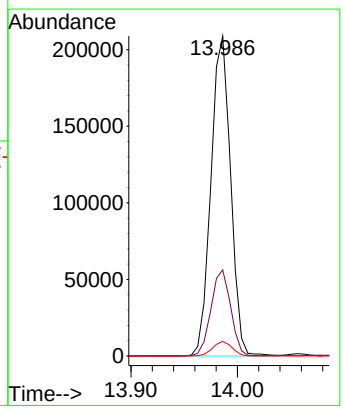
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

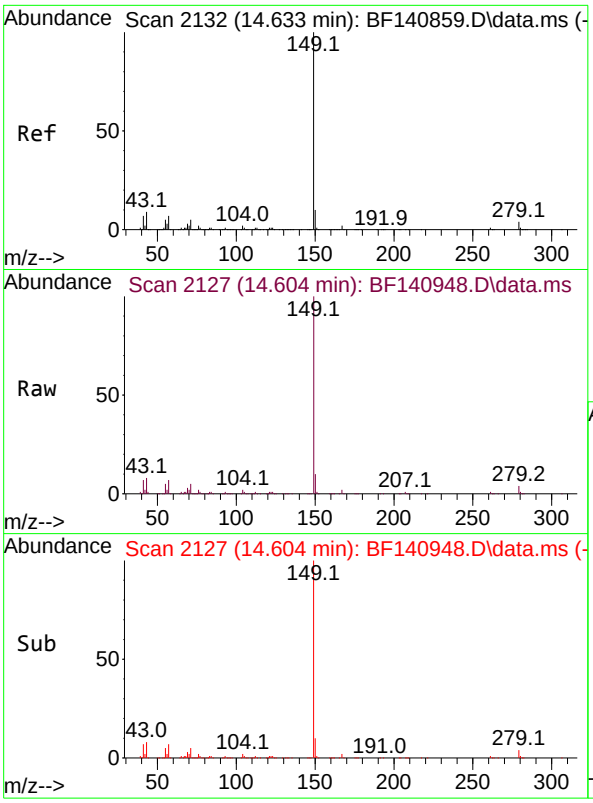


#84
Bis(2-ethylhexyl)phthalate
Concen: 47.624 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 267856

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.8	32.8
279	4.5	3.5	5.3

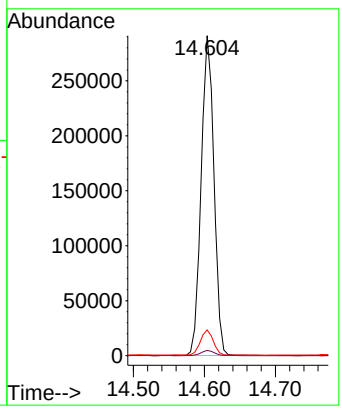




#85
Di-n-octyl phthalate
Concen: 42.906 ng
RT: 14.604 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 36509

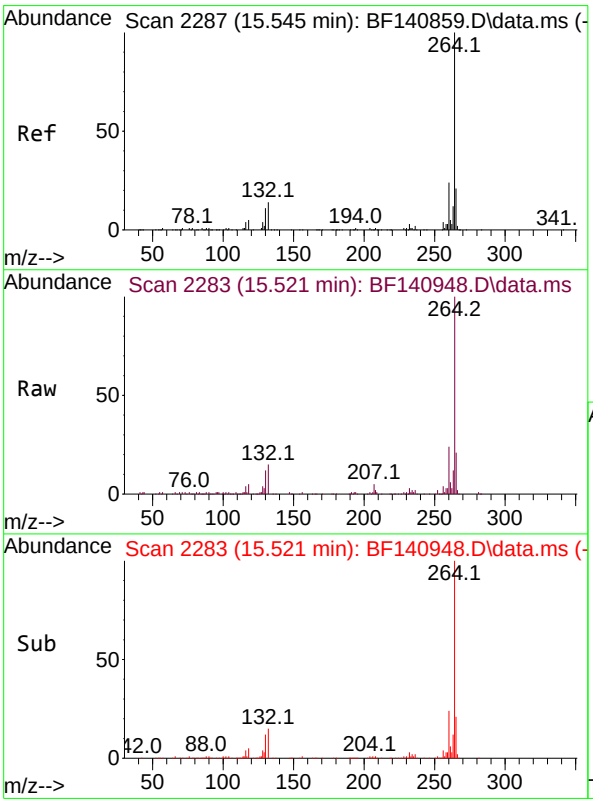
Ion	Ratio	Lower	Upper
149	100		
167	1.8	1.3	1.9
43	8.0	7.0	10.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

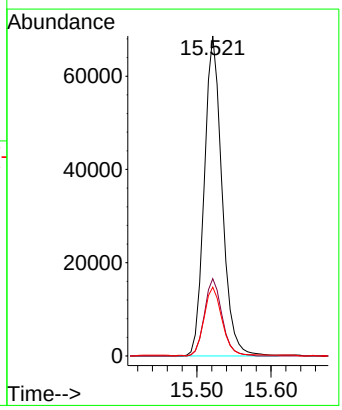
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

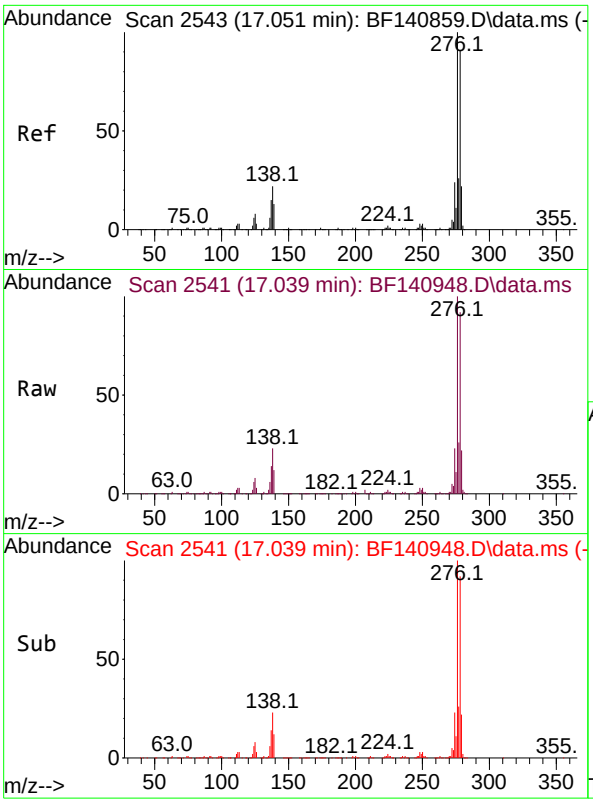


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:264 Resp: 114231

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.1	28.7
265	21.5	17.0	25.4

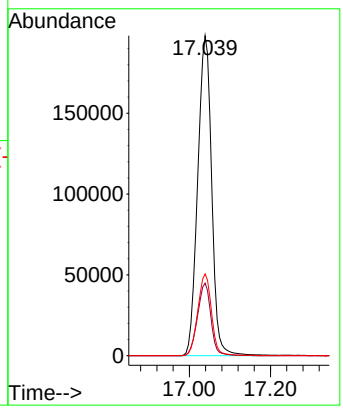




#87
Indeno(1,2,3-cd)pyrene
Concen: 66.539 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:276 Resp: 47431

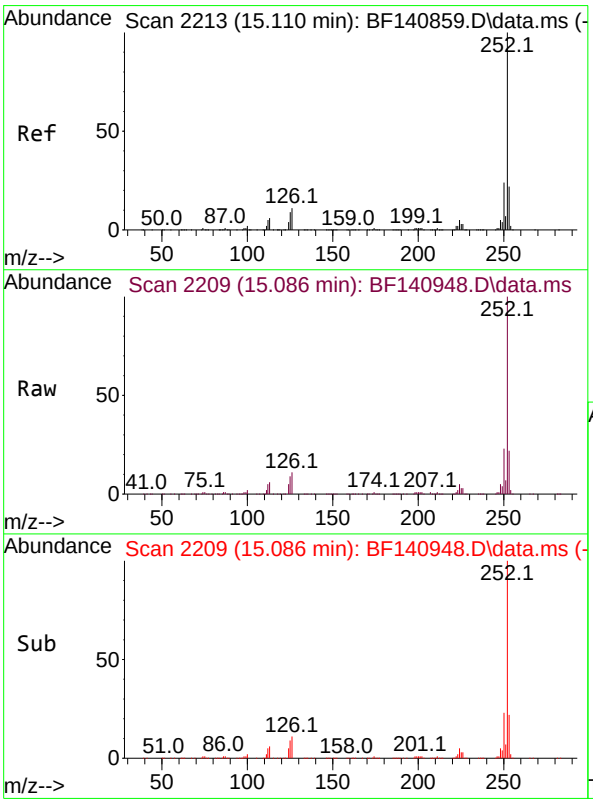
Ion	Ratio	Lower	Upper
276	100		
138	21.7	16.9	25.3
277	25.0	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Manual Integrations
APPROVED

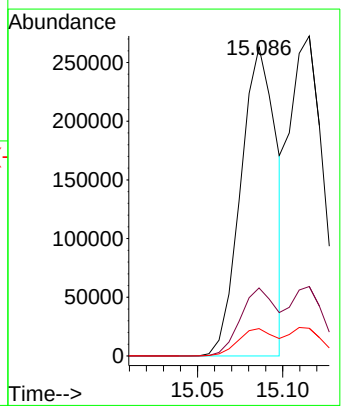
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

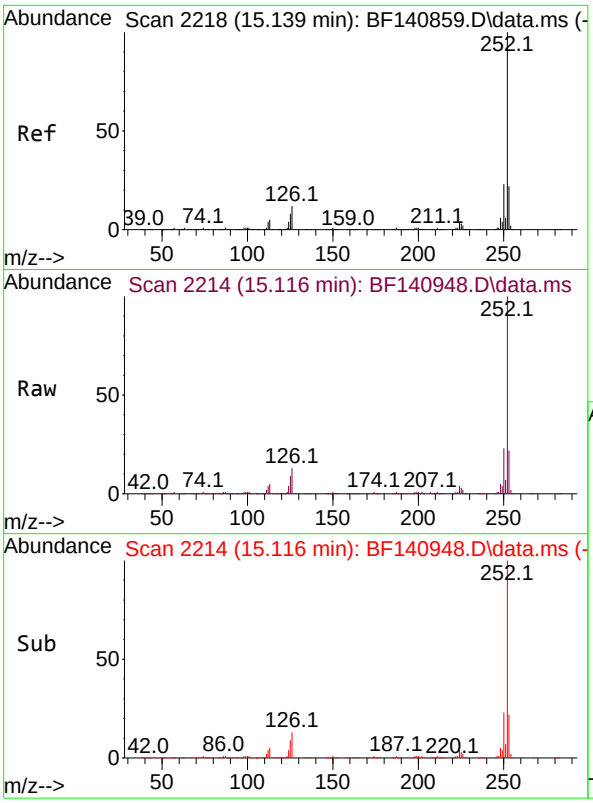


#88
Benzo(b)fluoranthene
Concen: 48.060 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:252 Resp: 381086

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	8.9	7.0	10.4

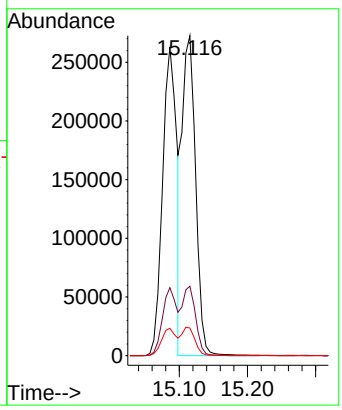




#89
Benzo(k)fluoranthene
Concen: 54.968 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

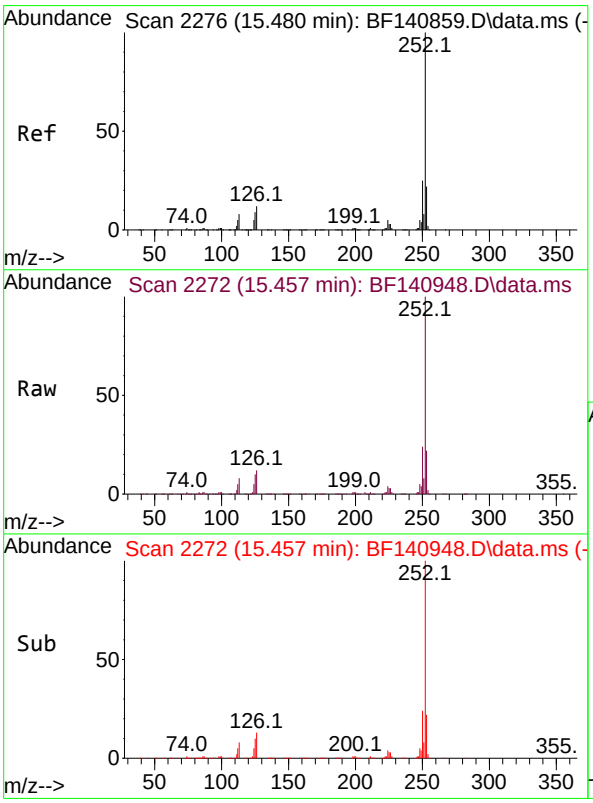
Tgt Ion:252 Resp: 373879

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.7	6.8	10.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

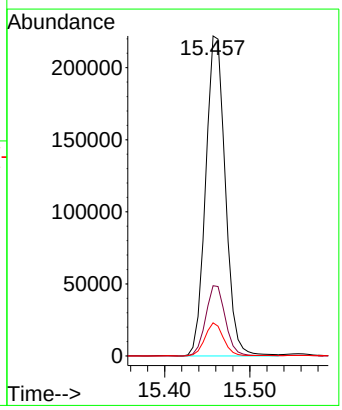
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

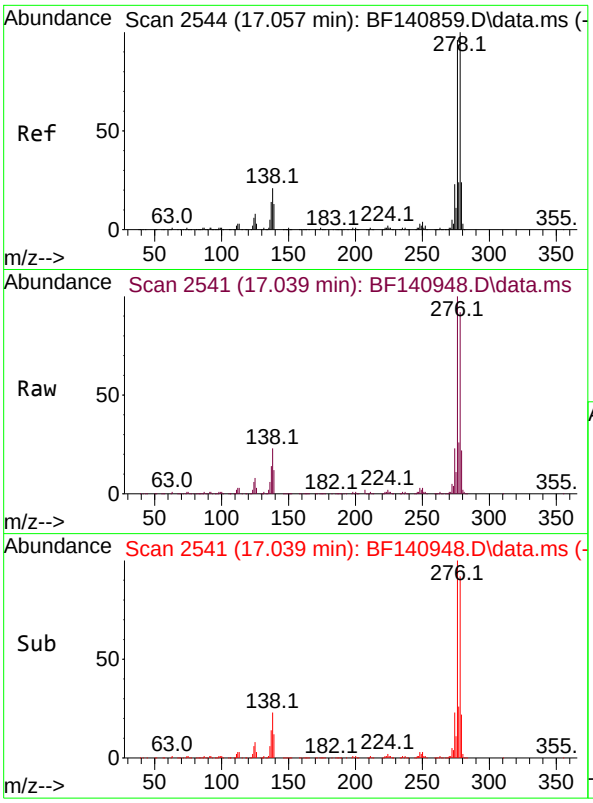


#90
Benzo(a)pyrene
Concen: 57.316 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:252 Resp: 355872

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.3	7.5	11.3

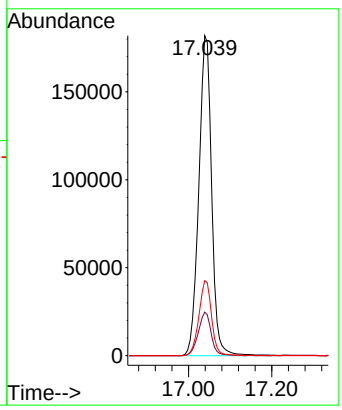




#91
Dibenzo(a,h)anthracene
Concen: 66.055 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

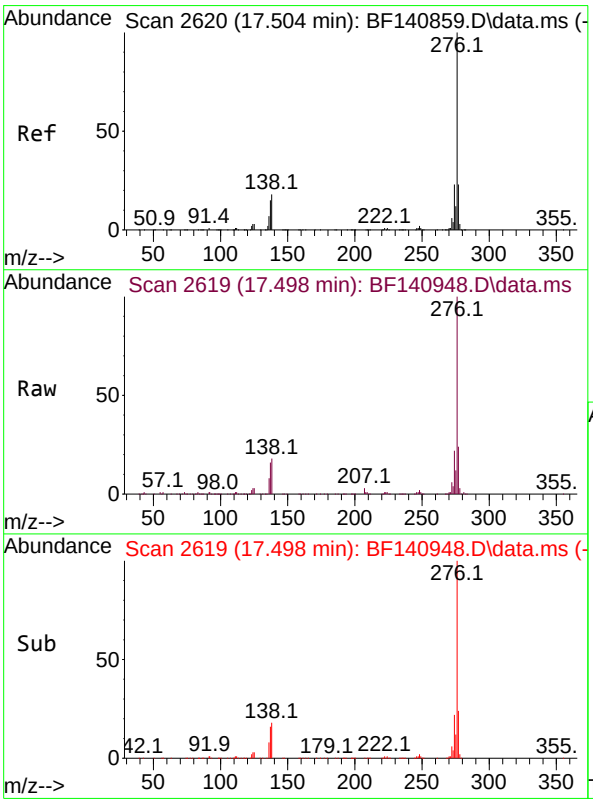
Tgt Ion:278 Resp: 39009

Ion	Ratio	Lower	Upper
278	100		
139	13.6	10.6	16.0
279	23.5	19.2	28.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

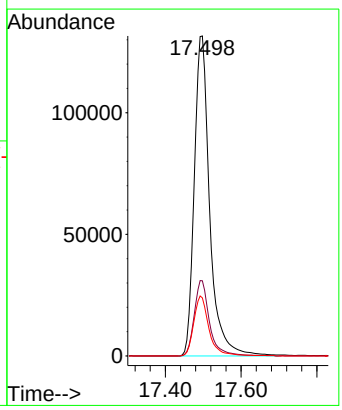
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#92
Benzo(g,h,i)perylene
Concen: 62.119 ng
RT: 17.498 min Scan# 2619
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:276 Resp: 373367

Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.7	28.1
138	18.1	14.2	21.2



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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224MSD	SDG No.:	P5306
Lab Sample ID:	P5306-09MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140949.D	1	12/18/24 08:56	12/20/24 14:36	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.90		0.088	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	1.90		0.088	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	2.10		0.092	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	2.00		0.086	0.14	0.18	mg/Kg
86-73-7	Fluorene	1.90		0.091	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	2.10		0.090	0.14	0.18	mg/Kg
120-12-7	Anthracene	2.20		0.090	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	2.00		0.087	0.14	0.18	mg/Kg
129-00-0	Pyrene	2.00		0.088	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	1.90		0.086	0.14	0.18	mg/Kg
218-01-9	Chrysene	1.90		0.085	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.90		0.086	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	2.00		0.088	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	2.10		0.099	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2.40		0.083	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	2.40		0.087	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	2.20		0.085	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	89.7		37 - 122		90%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.8		44 - 115		87%	SPK: 100
1718-51-0	Terphenyl-d14	92.3		54 - 127		92%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	45900	6.851				
1146-65-2	Naphthalene-d8	176000	8.128				
15067-26-2	Acenaphthene-d10	102000	9.886				
1517-22-2	Phenanthrene-d10	188000	11.38				
1719-03-5	Chrysene-d12	131000	14.045				
1520-96-3	Perylene-d12	114000	15.562				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	12/12/24
Project:	Raymark Superfund Site	Date Received:	12/17/24
Client Sample ID:	OU4-VSL-11-121224MSD	SDG No.:	P5306
Lab Sample ID:	P5306-09MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	93.6
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BF140949.D	1	12/18/24 08:56	12/20/24 14:36	PB165705

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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\BF122024\
Data File : BF140949.D
Acq On : 20 Dec 2024 14:36
Operator : RC/JU
Sample : P5306-09MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 15:07:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	45949	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	175670	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	102157	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	188148	20.000	ng		0.00
76) Chrysene-d12	14.045	240	131096	20.000	ng		0.01
86) Perylene-d12	15.562	264	113765	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	397303	142.339	ng		0.01
7) Phenol-d6	6.504	99	518890	140.353	ng		0.00
23) Nitrobenzene-d5	7.416	82	315005	89.714	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	162262	134.298	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	644674	86.762	ng		0.00
79) Terphenyl-d14	12.963	244	767138	92.274	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.710	88	57585	47.896	ng		98
3) Pyridine	3.481	79	136795	49.130	ng		99
4) n-Nitrosodimethylamine	3.434	42	71728	51.102	ng		96
6) Aniline	6.516	93	130848	41.394	ng	#	70
8) 2-Chlorophenol	6.645	128	172137	56.552	ng		99
9) Benzaldehyde	6.410	77	33958	16.577	ng		99
10) Phenol	6.516	94	224652	58.630	ng		98
11) bis(2-Chloroethyl)ether	6.587	93	152512	53.372	ng		98
12) 1,3-Dichlorobenzene	6.786	146	181700	52.387	ng		97
13) 1,4-Dichlorobenzene	6.869	146	185568	52.708	ng		99
14) 1,2-Dichlorobenzene	7.016	146	176510	53.137	ng		99
15) Benzyl Alcohol	7.004	79	151766	57.414	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.116	45	177636	52.770	ng		91
17) 2-Methylphenol	7.122	107	138692	57.071	ng		98
18) Hexachloroethane	7.351	117	66118	50.446	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	119168	53.736	ng		99
20) 3+4-Methylphenols	7.275	107	185300	57.503	ng	#	82
22) Acetophenone	7.263	105	241328	54.917	ng		94
24) Nitrobenzene	7.439	77	180083	50.063	ng		95
25) Isophorone	7.675	82	314395	53.439	ng		99
26) 2-Nitrophenol	7.751	139	94485	57.032	ng		95
27) 2,4-Dimethylphenol	7.792	122	127969	66.141	ng		98
28) bis(2-Chloroethoxy)met...	7.881	93	188944	51.420	ng		99
29) 2,4-Dichlorophenol	8.004	162	149408	55.934	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	153263	50.051	ng		98
31) Naphthalene	8.151	128	517245	53.602	ng		99
32) Benzoic acid	7.945	122	71840	39.151	ng		97
33) 4-Chloroaniline	8.210	127	70709	22.062	ng		97
34) Hexachlorobutadiene	8.263	225	100776	48.916	ng		100
35) Caprolactam	8.592	113	46987m	59.086	ng		
36) 4-Chloro-3-methylphenol	8.710	107	163449	54.366	ng		99
37) 2-Methylnaphthalene	8.845	142	343391	53.795	ng		100
38) 1-Methylnaphthalene	8.945	142	318541	50.458	ng		99
40) 1,2,4,5-Tetrachloroben...	9.010	216	169136	53.866	ng		98
41) Hexachlorocyclopentadiene	8.992	237	31402	41.662	ng		100
43) 2,4,6-Trichlorophenol	9.133	196	102644	53.386	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140949.D
Acq On : 20 Dec 2024 14:36
Operator : RC/JU
Sample : P5306-09MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 20 15:07:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	107412	50.828	ng	99
46) 1,1'-Biphenyl	9.304	154	433578	53.374	ng	99
47) 2-Chloronaphthalene	9.333	162	319959	51.486	ng	98
48) 2-Nitroaniline	9.439	65	100764	53.688	ng	94
49) Acenaphthylene	9.751	152	529169	57.943	ng	99
50) Dimethylphthalate	9.604	163	378063	52.492	ng	100
51) 2,6-Dinitrotoluene	9.680	165	84402	51.261	ng	95
52) Acenaphthene	9.922	154	324577	55.638	ng	99
53) 3-Nitroaniline	9.857	138	49243	30.137	ng	93
54) 2,4-Dinitrophenol	9.980	184	79873	97.834	ng	93
55) Dibenzofuran	10.092	168	493268	54.567	ng	100
56) 4-Nitrophenol	10.045	139	72978	82.863	ng	97
57) 2,4-Dinitrotoluene	10.092	165	113633	52.453	ng	99
58) Fluorene	10.439	166	397342	53.279	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	97009	56.336	ng	91
60) Diethylphthalate	10.304	149	376001	50.345	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	193903	51.761	ng	98
62) 4-Nitroaniline	10.474	138	88397m	51.770	ng	
63) Azobenzene	10.586	77	404359	57.590	ng	95
65) 4,6-Dinitro-2-methylph...	10.510	198	64685	60.672	ng	96
66) n-Nitrosodiphenylamine	10.545	169	341229	58.988	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	117531	55.838	ng	96
68) Hexachlorobenzene	10.992	284	133215	55.821	ng	98
69) Atrazine	11.074	200	111739	69.163	ng	99
70) Pentachlorophenol	11.198	266	74523	85.412	ng	98
71) Phenanthrene	11.404	178	569035	58.813	ng	99
72) Anthracene	11.457	178	585440	61.442	ng	100
73) Carbazole	11.616	167	541131	57.981	ng	100
74) Di-n-butylphthalate	11.927	149	577959	52.767	ng	99
75) Fluoranthene	12.598	202	628778	56.429	ng	100
77) Benzidine	12.721	184	132623	49.567	ng	99
78) Pyrene	12.827	202	642867	55.145	ng	100
80) Butylbenzylphthalate	13.433	149	231266	53.914	ng	97
81) Benzo(a)anthracene	14.033	228	508709	54.752	ng	99
82) 3,3'-Dichlorobenzidine	13.986	252	84711	30.219	ng	98
83) Chrysene	14.068	228	458342	54.249	ng	99
84) Bis(2-ethylhexyl)phtha...	13.998	149	277592	50.188	ng	99
85) Di-n-octyl phthalate	14.639	149	383542	45.836	ng	98
87) Indeno(1,2,3-cd)pyrene	17.086	276	486592	68.540	ng	99
88) Benzo(b)fluoranthene	15.127	252	420442	53.241	ng	99
89) Benzo(k)fluoranthene	15.151	252	378547	55.882	ng	100
90) Benzo(a)pyrene	15.504	252	372093	60.174	ng	100
91) Dibenzo(a,h)anthracene	17.092	278	395812	67.298	ng	99
92) Benzo(g,h,i)perylene	17.545	276	366040	61.149	ng	99

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

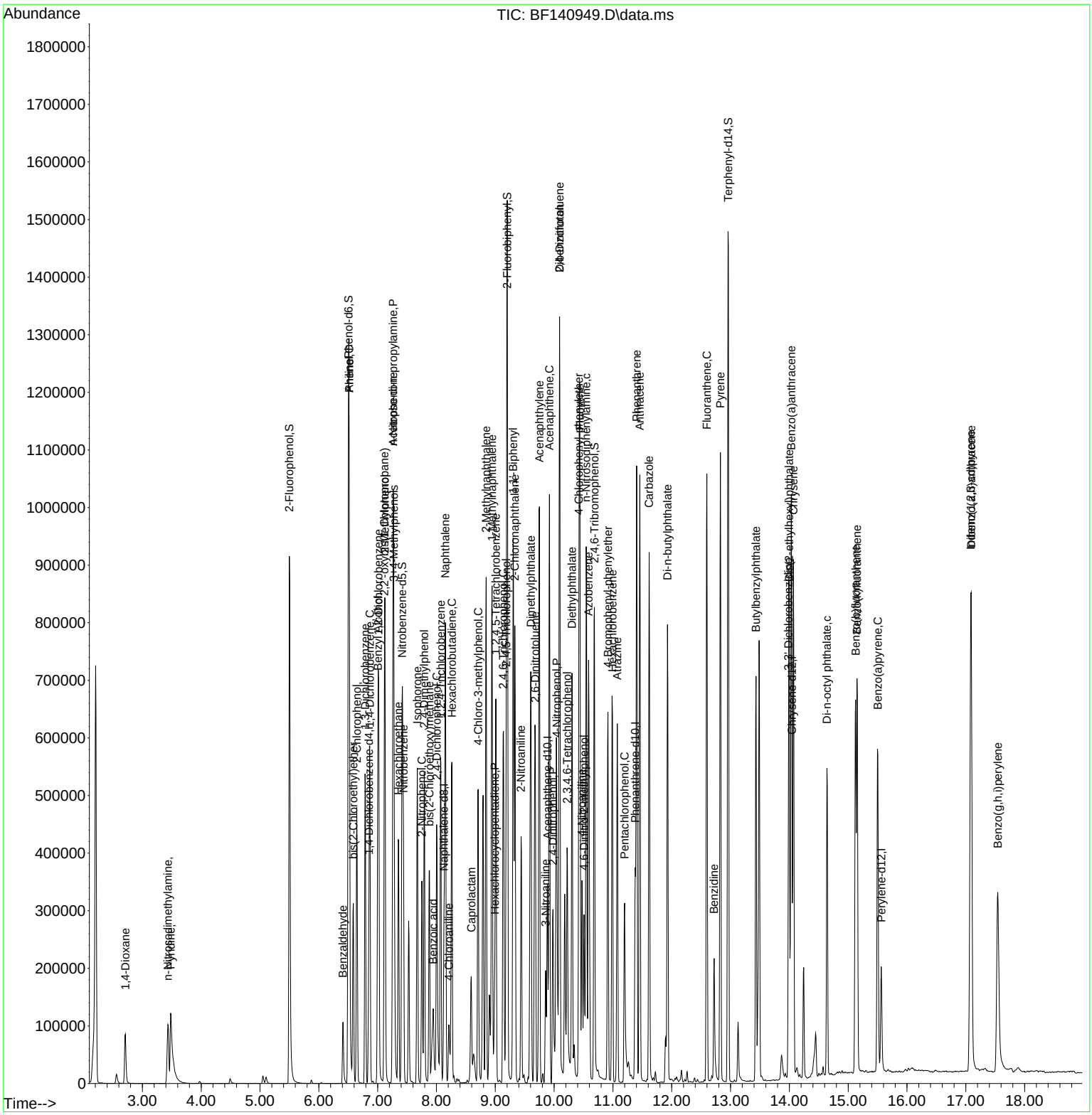
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140949.D
Acq On : 20 Dec 2024 14:36
Operator : RC/JU
Sample : P5306-09MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

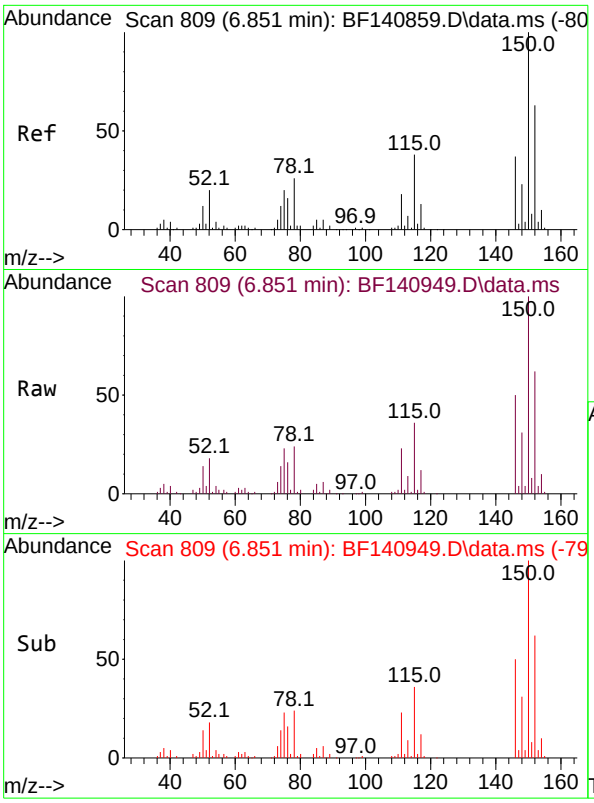
Quant Time: Dec 20 15:07:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

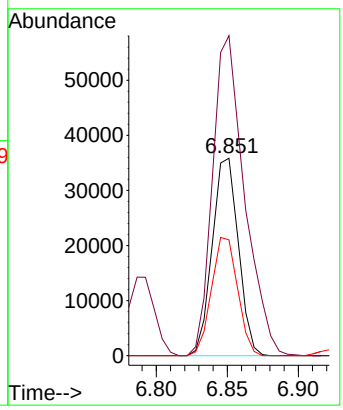




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

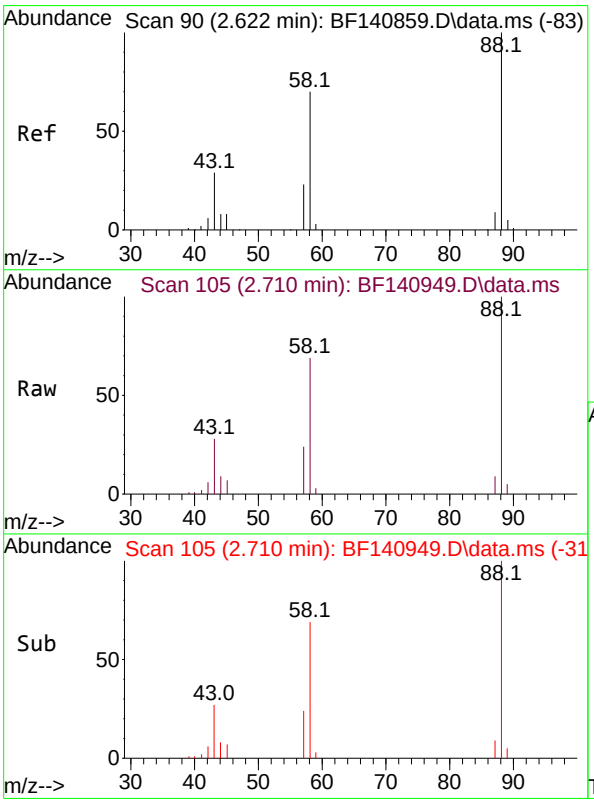
Tgt Ion:152 Resp: 4594

Ion	Ratio	Lower	Upper
152	100		
150	162.1	127.9	191.9
115	58.7	48.0	72.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

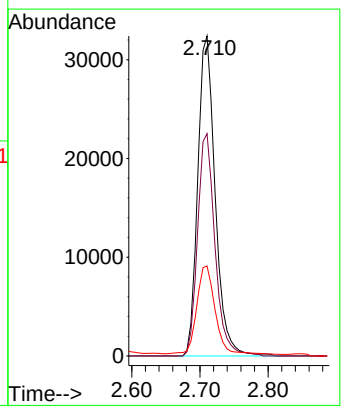
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

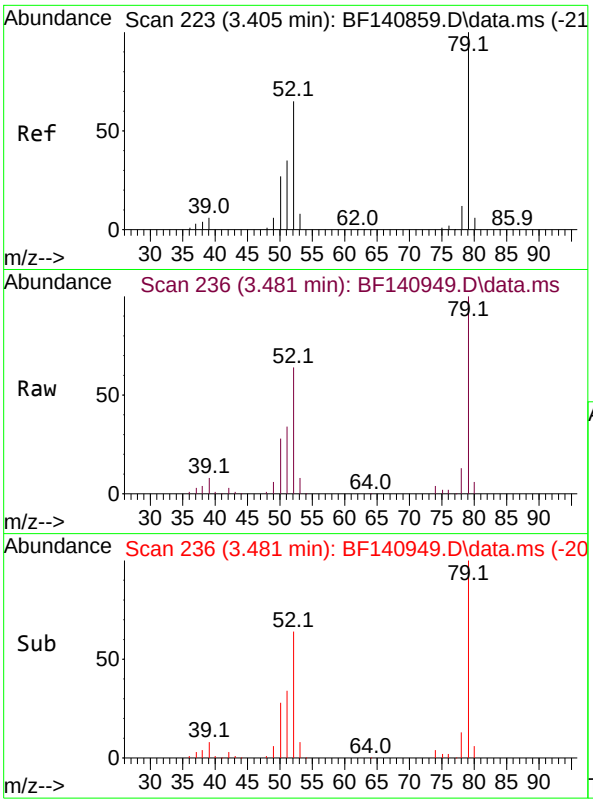


#2
1,4-Dioxane
Concen: 47.896 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.088 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 88 Resp: 57585

Ion	Ratio	Lower	Upper
88	100		
58	69.3	55.8	83.8
43	30.7	22.7	34.1

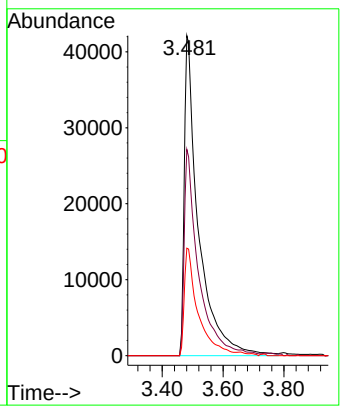




#3
Pyridine
Concen: 49.130 ng
RT: 3.481 min Scan# 2
Delta R.T. 0.076 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

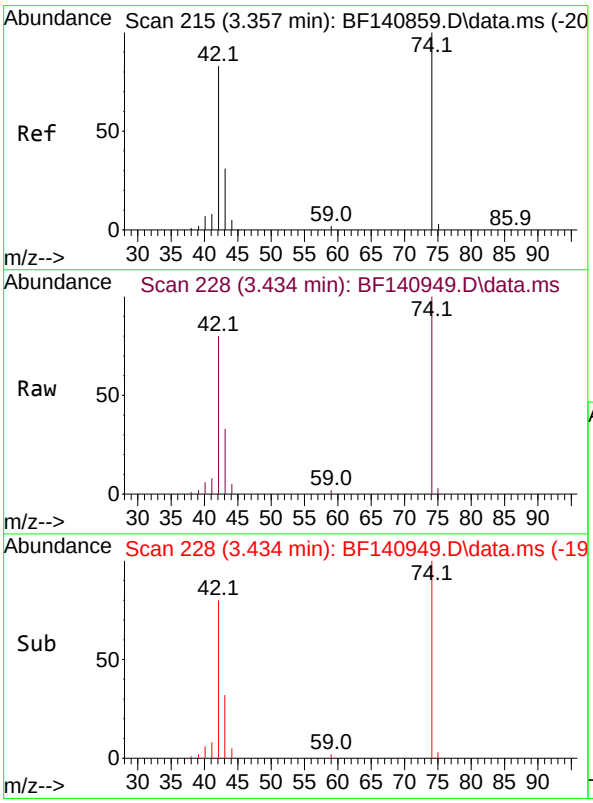
Tgt Ion: 79 Resp: 13679

Ion	Ratio	Lower	Upper
79	100		
52	64.5	51.7	77.5
51	33.6	28.2	42.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

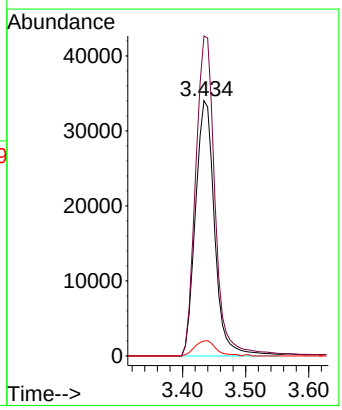
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

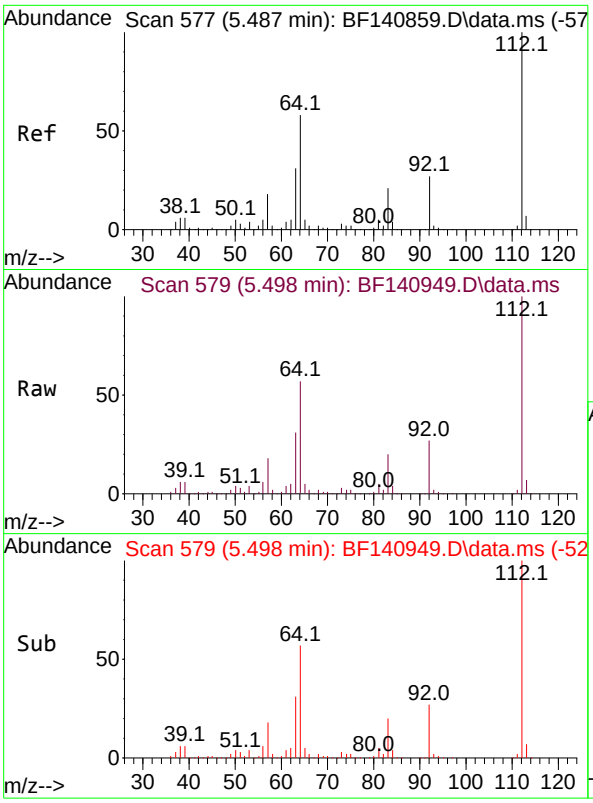


#4
n-Nitrosodimethylamine
Concen: 51.102 ng
RT: 3.434 min Scan# 228
Delta R.T. 0.076 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 42 Resp: 71728

Ion	Ratio	Lower	Upper
42	100		
74	125.3	96.9	145.3
44	5.9	4.4	6.6

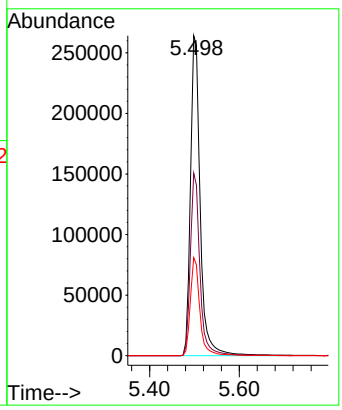




#5
2-Fluorophenol
Concen: 142.339 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:112 Resp: 39730

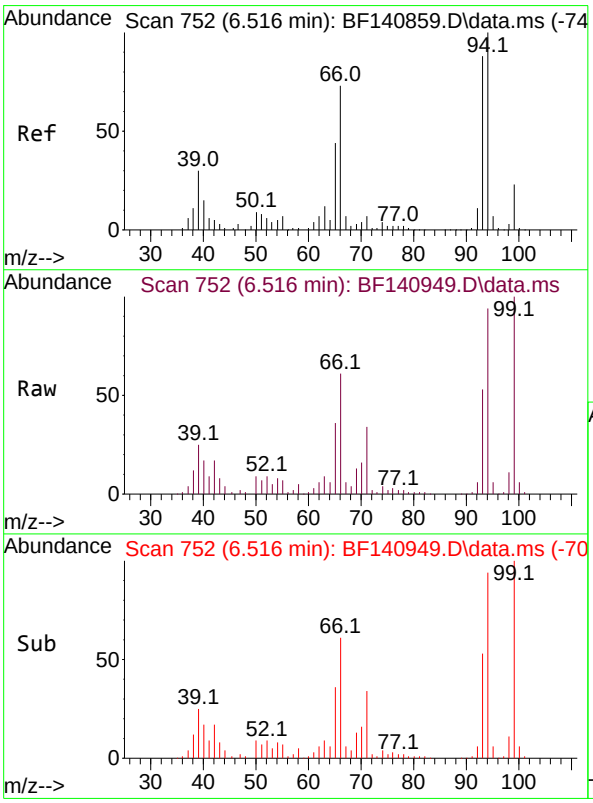
Ion	Ratio	Lower	Upper
112	100		
64	57.0	46.1	69.1
63	30.7	24.9	37.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

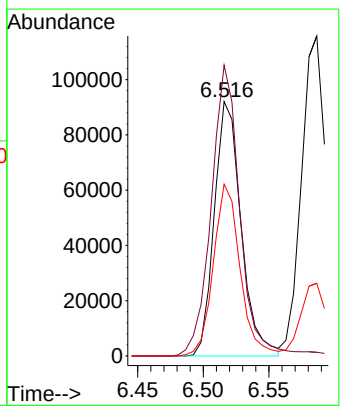
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

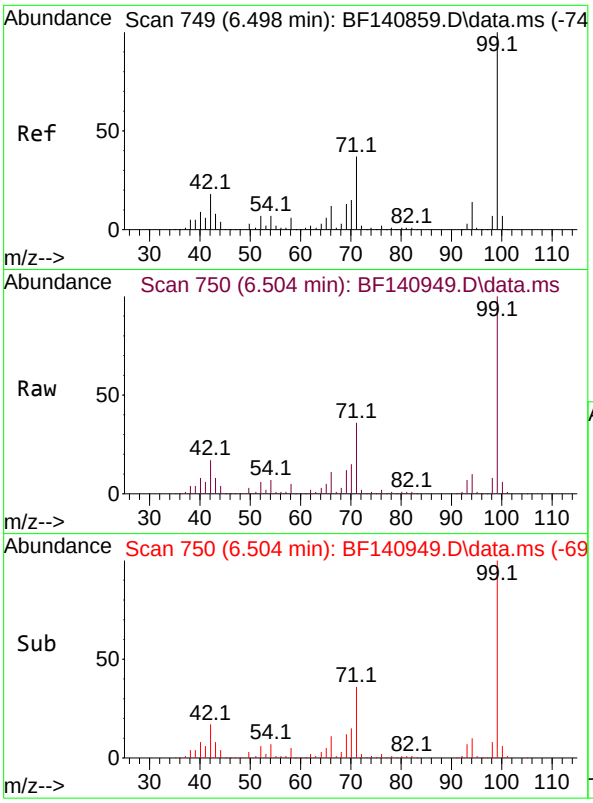


#6
Aniline
Concen: 41.394 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 93 Resp: 130848

Ion	Ratio	Lower	Upper
93	100		
66	114.3	67.0	100.4#
65	67.5	40.4	60.6#

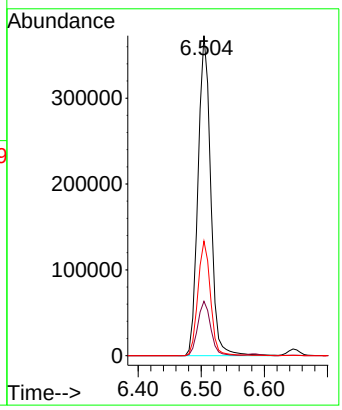




#7
Phenol-d6
Concen: 140.353 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

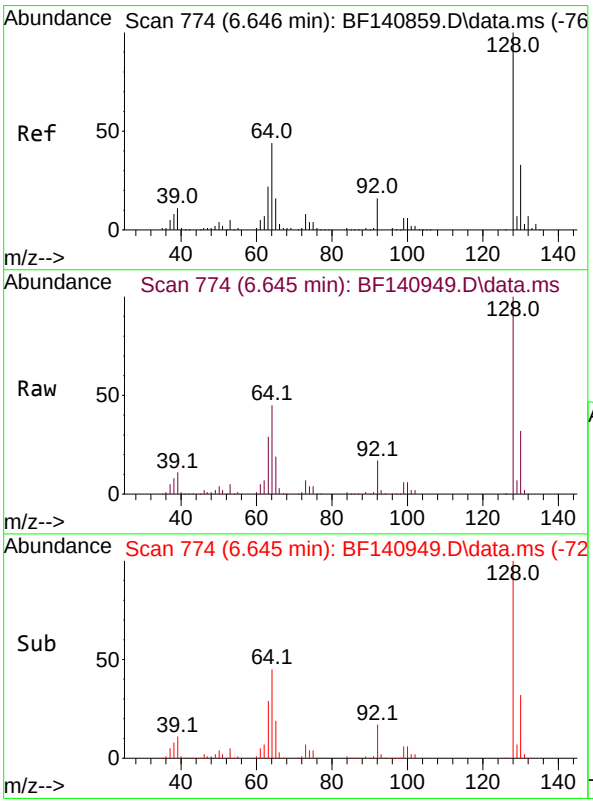
Tgt Ion: 99 Resp: 51889

Ion	Ratio	Lower	Upper
99	100		
42	17.0	14.3	21.5
71	35.8	29.9	44.9



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

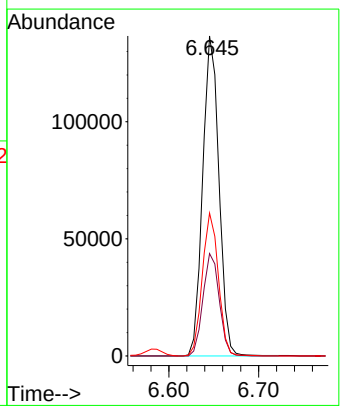
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

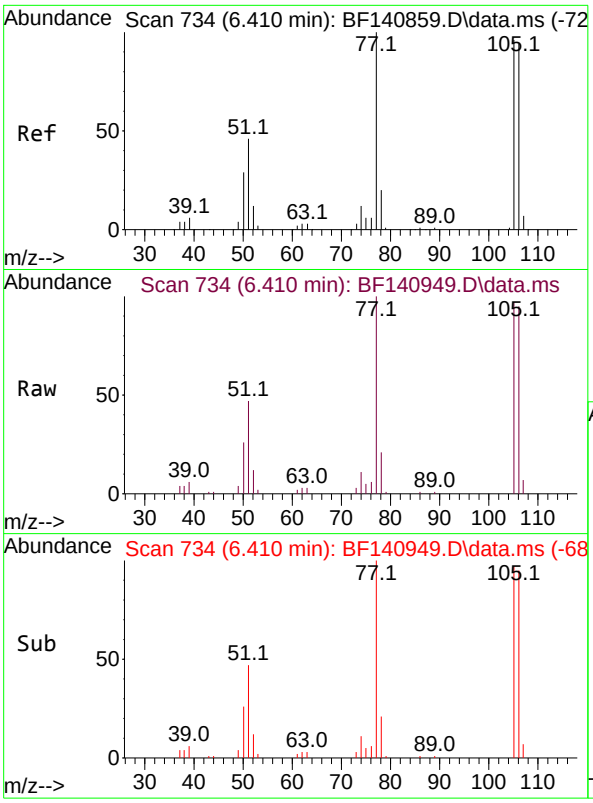


#8
2-Chlorophenol
Concen: 56.552 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:128 Resp: 172137

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.9	52.9
64	44.7	24.3	64.3

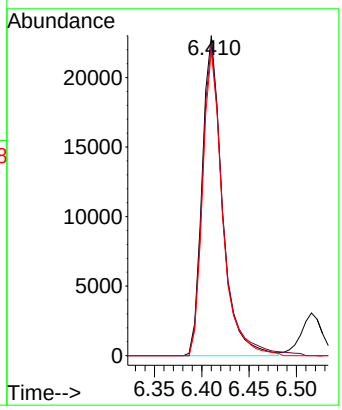




#9
Benzaldehyde
Concen: 16.577 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 77 Resp: 3395

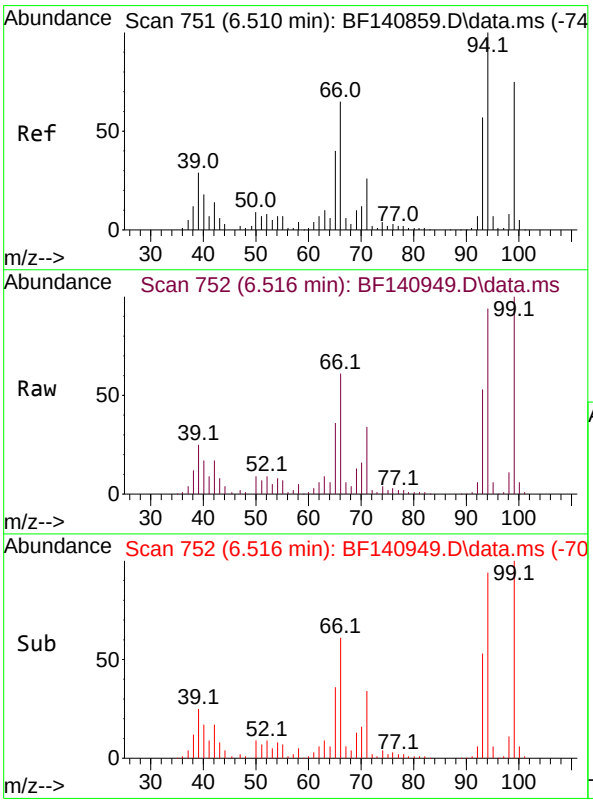
Ion	Ratio	Lower	Upper
77	100		
105	97.4	75.8	115.8
106	95.2	74.1	114.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

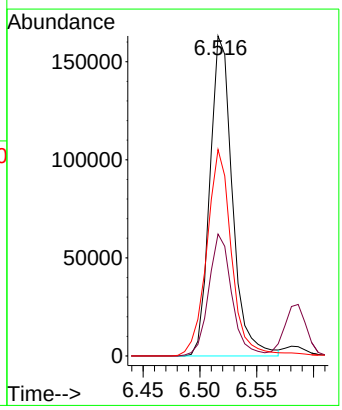
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

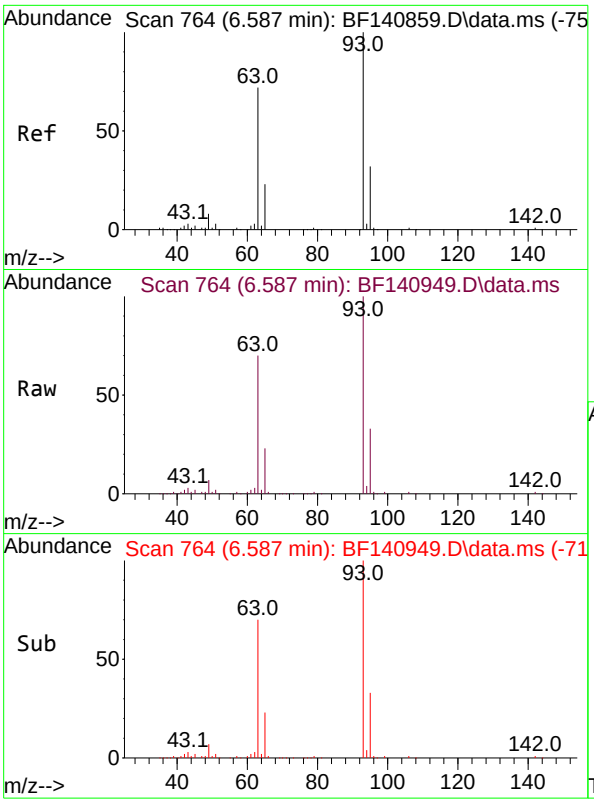


#10
Phenol
Concen: 58.630 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 94 Resp: 224652

Ion	Ratio	Lower	Upper
94	100		
65	38.1	19.9	59.9
66	64.5	45.6	85.6

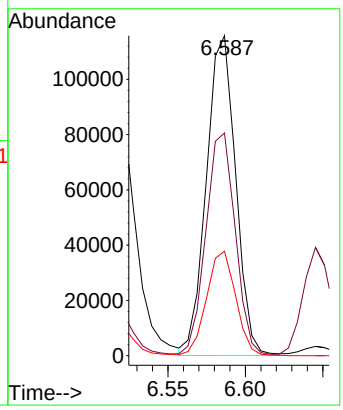




#11
bis(2-Chloroethyl)ether
Concen: 53.372 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

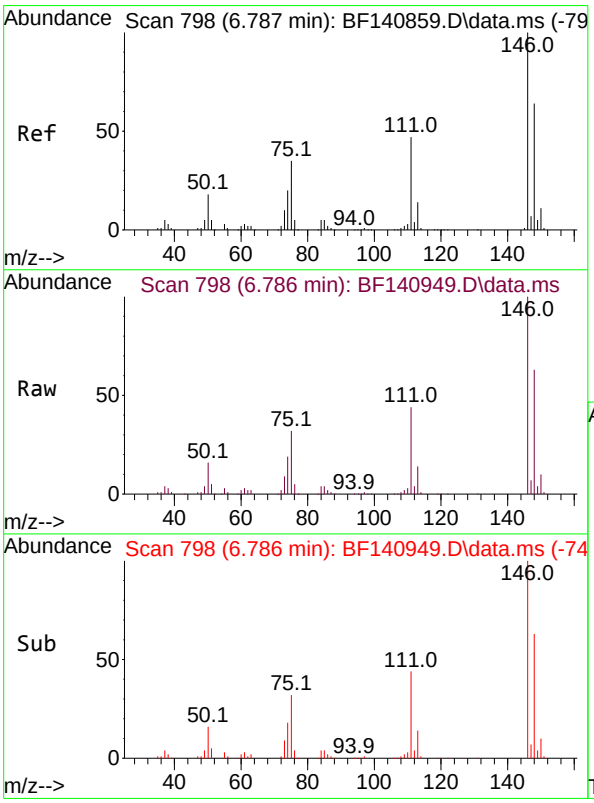
Tgt Ion: 93 Resp: 15251

Ion	Ratio	Lower	Upper
93	100		
63	69.6	51.0	91.0
95	32.6	12.0	52.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

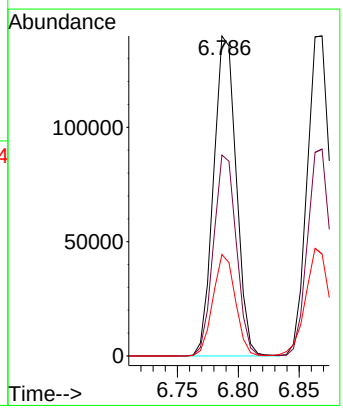
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

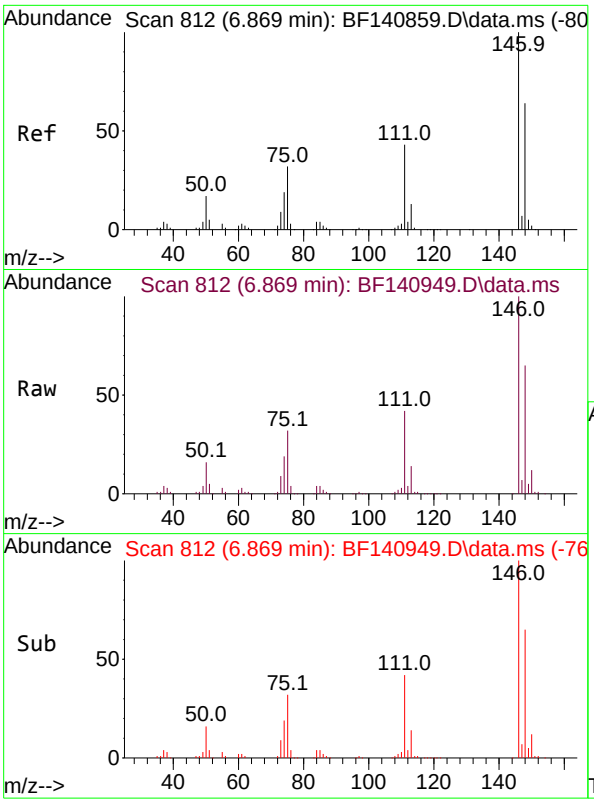


#12
1,3-Dichlorobenzene
Concen: 52.387 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:146 Resp: 181700

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.0	76.6
75	31.7	28.1	42.1

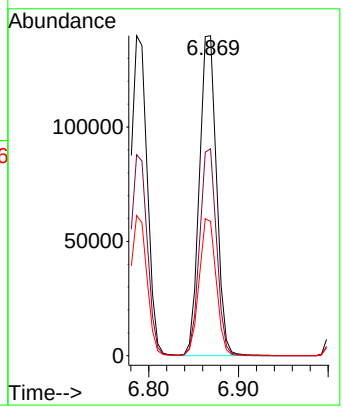




#13
1,4-Dichlorobenzene
Concen: 52.708 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:146 Resp: 18556

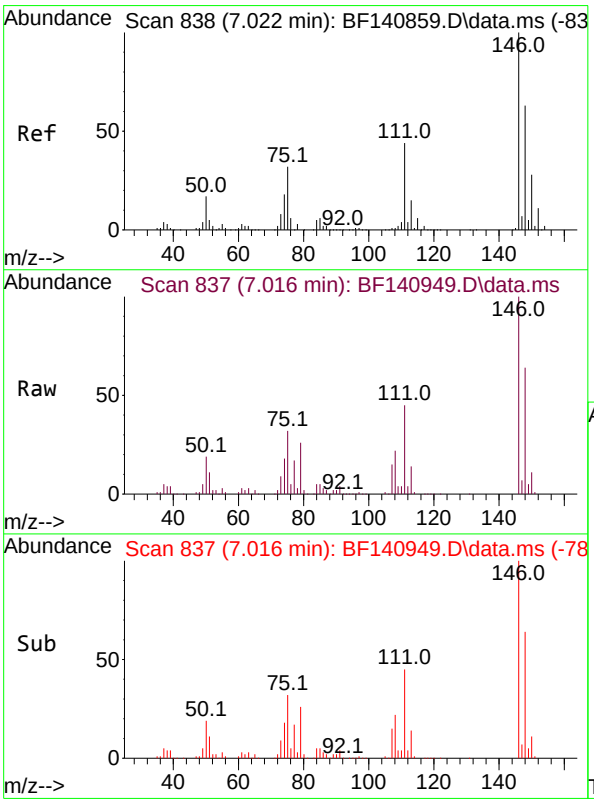
Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.3	76.9
111	42.0	34.4	51.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

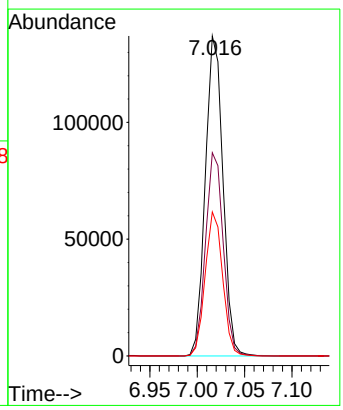
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

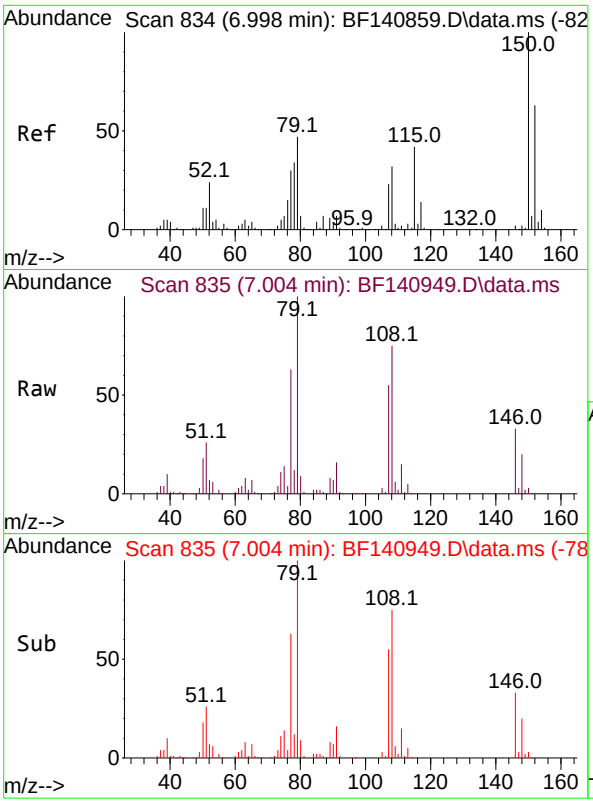


#14
1,2-Dichlorobenzene
Concen: 53.137 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:146 Resp: 176510

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.0	75.0
111	45.0	35.6	53.4





#15
Benzyl Alcohol
Concen: 57.414 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

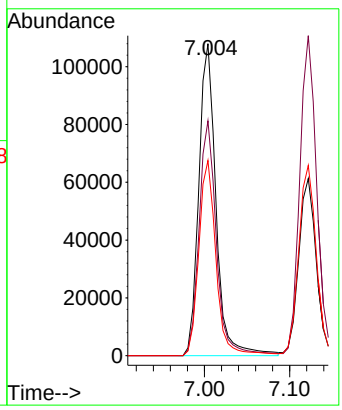
Tgt Ion: 79 Resp: 15176

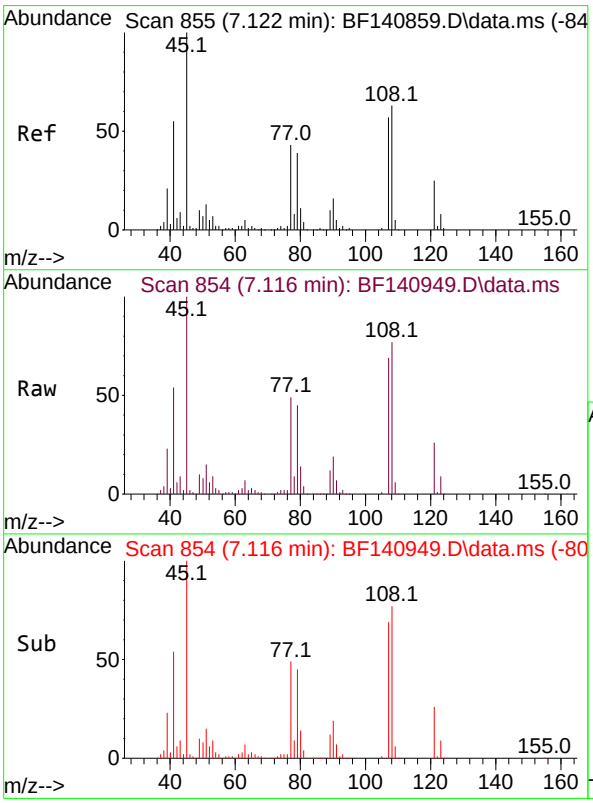
Ion	Ratio	Lower	Upper
79	100		
108	75.3	55.1	82.7
77	62.6	50.6	76.0

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

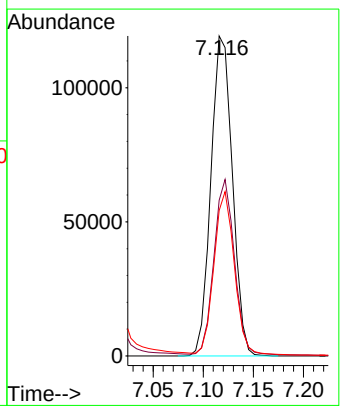


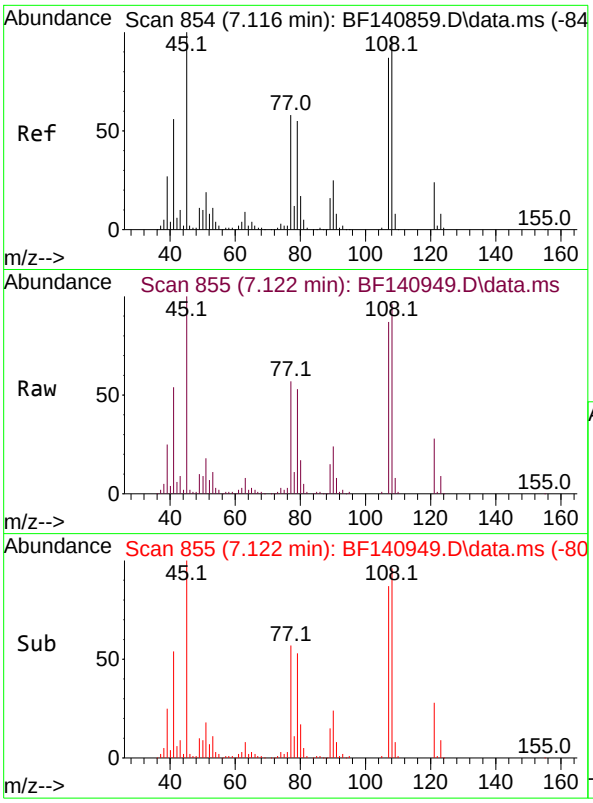


#16
2,2'-oxybis(1-Chloropropane)
Concen: 52.770 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 45 Resp: 177636

Ion	Ratio	Lower	Upper
45	100		
77	48.7	23.3	63.3
79	45.4	20.0	60.0

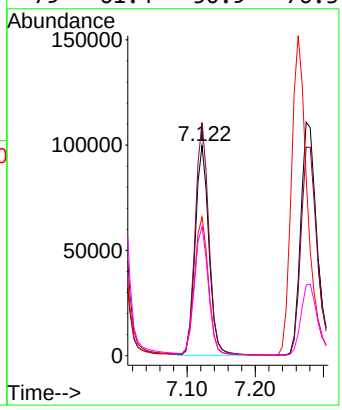




#17
2-Methylphenol
Concen: 57.071 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:107 Resp: 13869

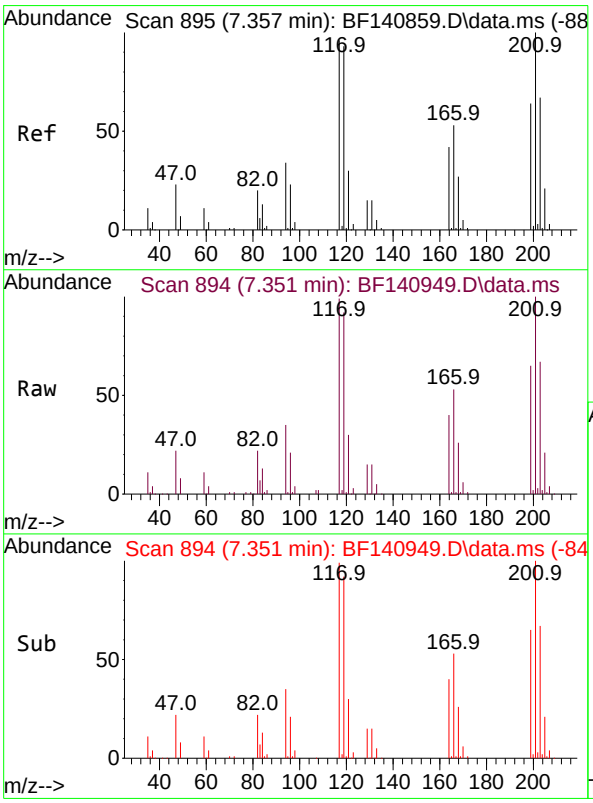
Ion	Ratio	Lower	Upper
107	100		
108	111.0	90.2	135.4
77	65.9	53.8	80.6
79	61.4	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

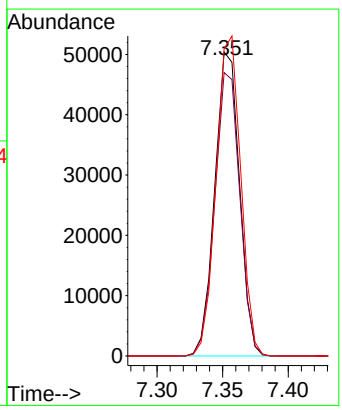
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

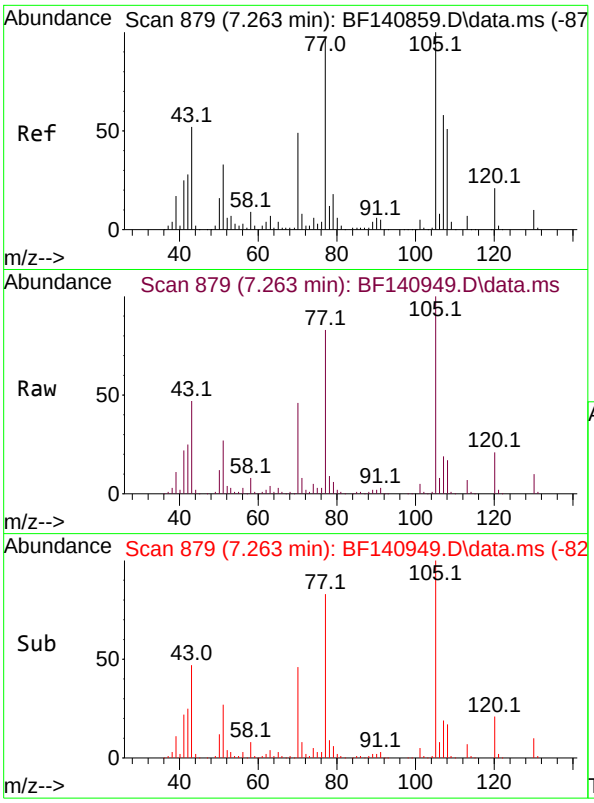


#18
Hexachloroethane
Concen: 50.446 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:117 Resp: 66118

Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.4	116.0
201	101.0	83.4	125.0

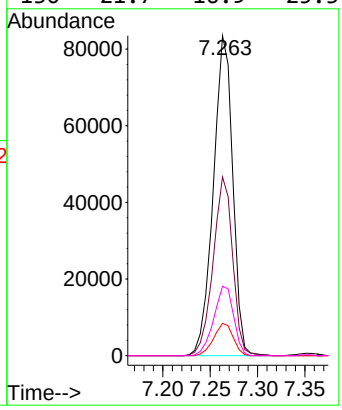




#19
n-Nitroso-di-n-propylamine
Concen: 53.736 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 70 Resp: 11916

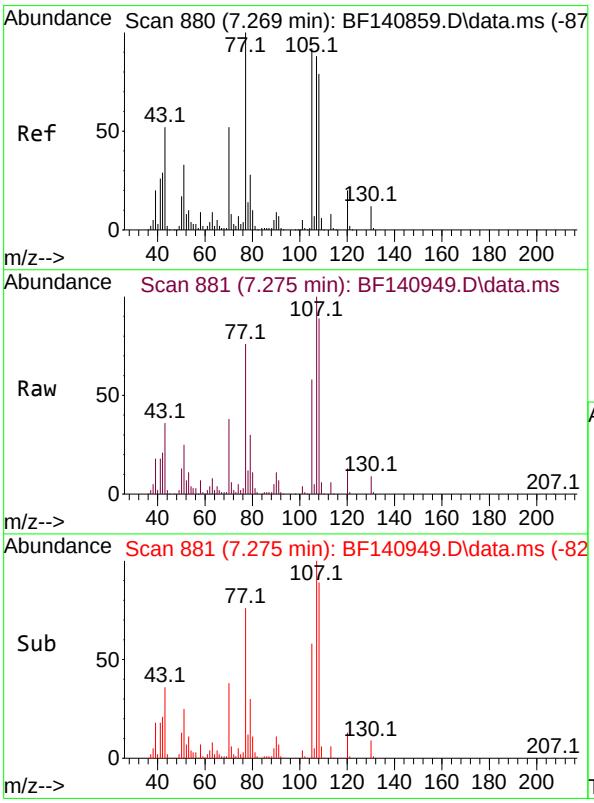
Ion	Ratio	Lower	Upper
70	100		
42	55.8	45.3	67.9
101	10.1	8.0	12.0
130	21.7	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

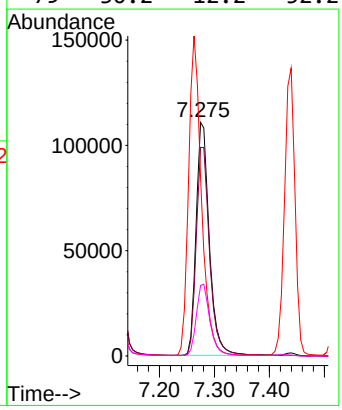
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

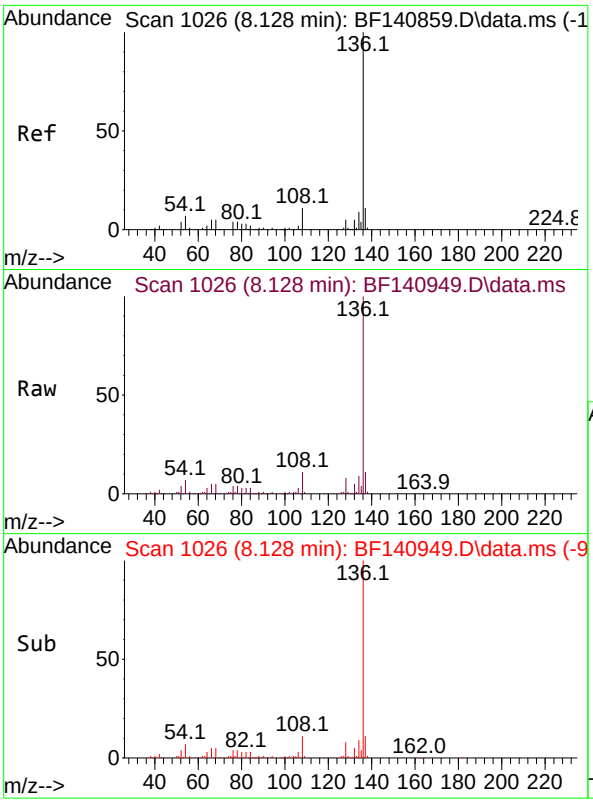


#20
3+4-Methylphenols
Concen: 57.503 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:107 Resp: 185300

Ion	Ratio	Lower	Upper
107	100		
108	89.3	70.1	110.1
77	75.9	94.4	134.4#
79	30.2	12.2	52.2

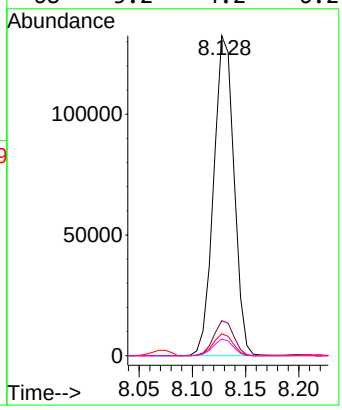




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

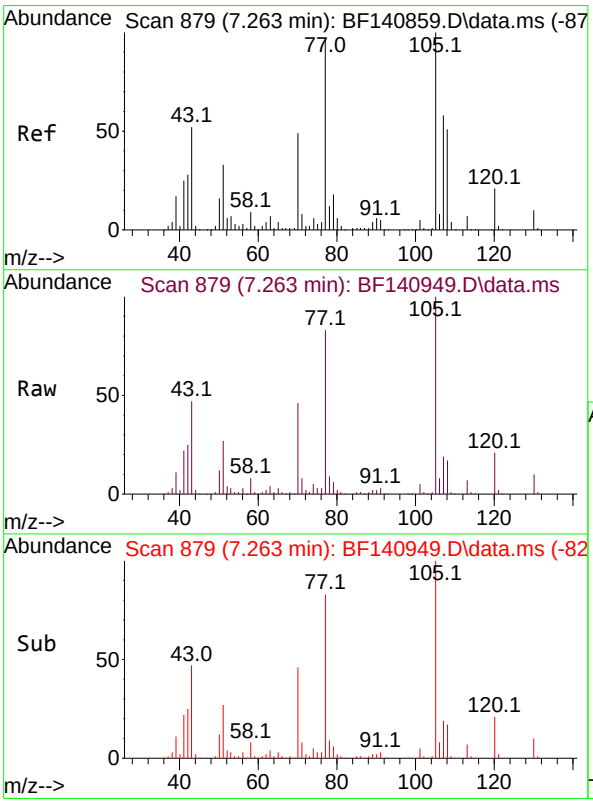
Tgt Ion:136 Resp: 17567

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.9	5.6	8.4
68	5.2	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

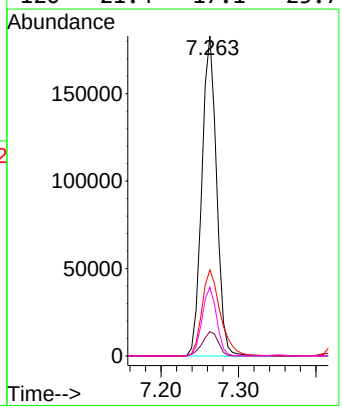
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

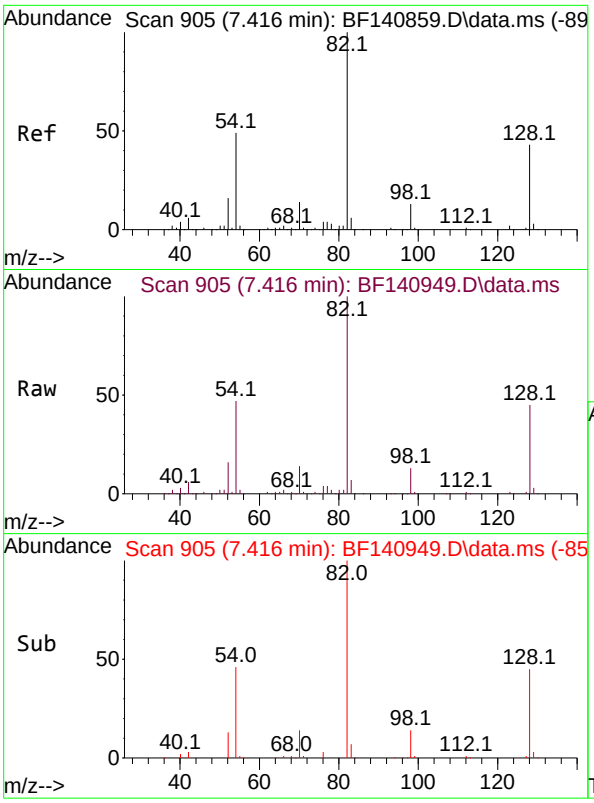


#22
Acetophenone
Concen: 54.917 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:105 Resp: 241328

Ion	Ratio	Lower	Upper
105	100		
71	7.6	6.2	9.4
51	26.8	26.3	39.5
120	21.4	17.1	25.7

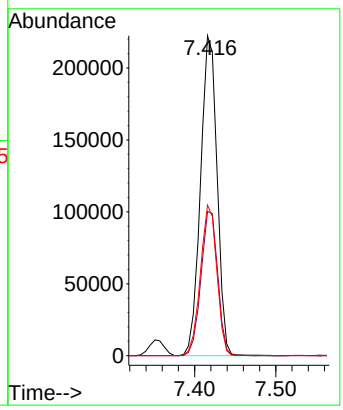




#23
Nitrobenzene-d5
Concen: 89.714 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 82 Resp: 31500

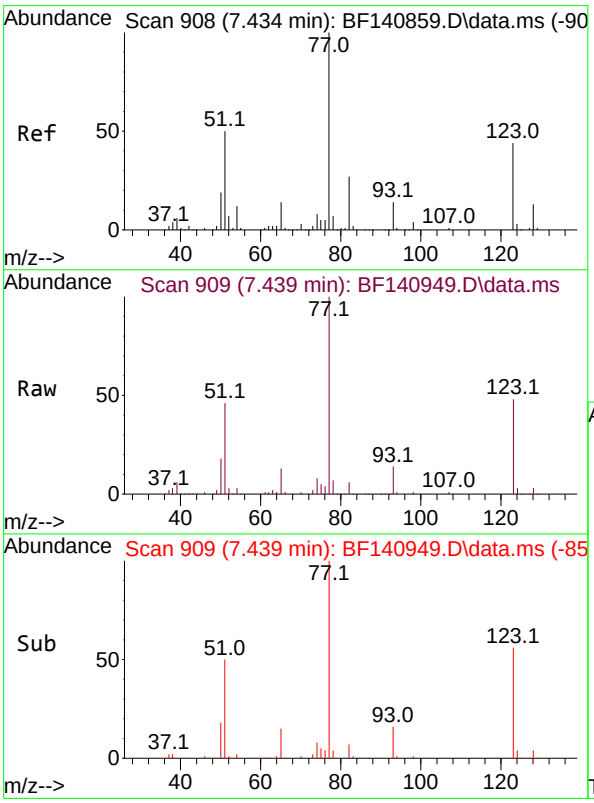
Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.4	51.6
54	47.1	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

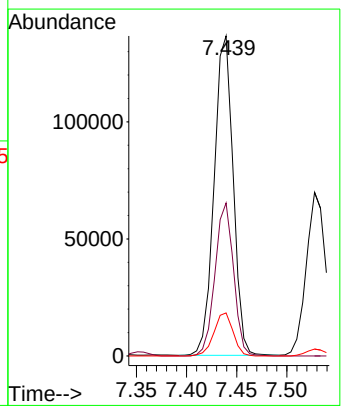
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

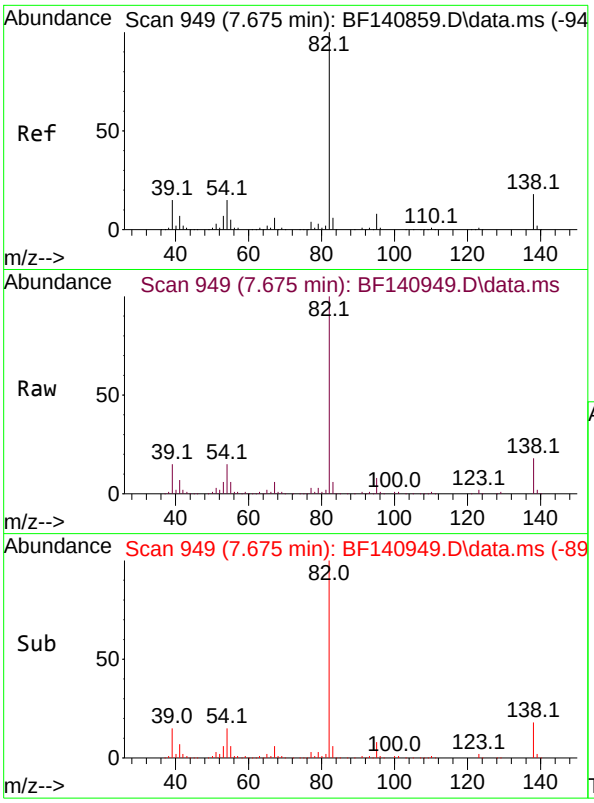


#24
Nitrobenzene
Concen: 50.063 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 77 Resp: 180083

Ion	Ratio	Lower	Upper
77	100		
123	47.8	35.0	52.4
65	13.4	11.4	17.0

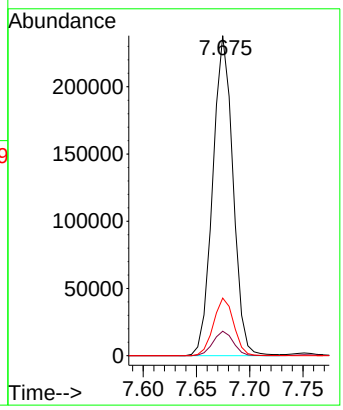




#25
Isophorone
Concen: 53.439 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

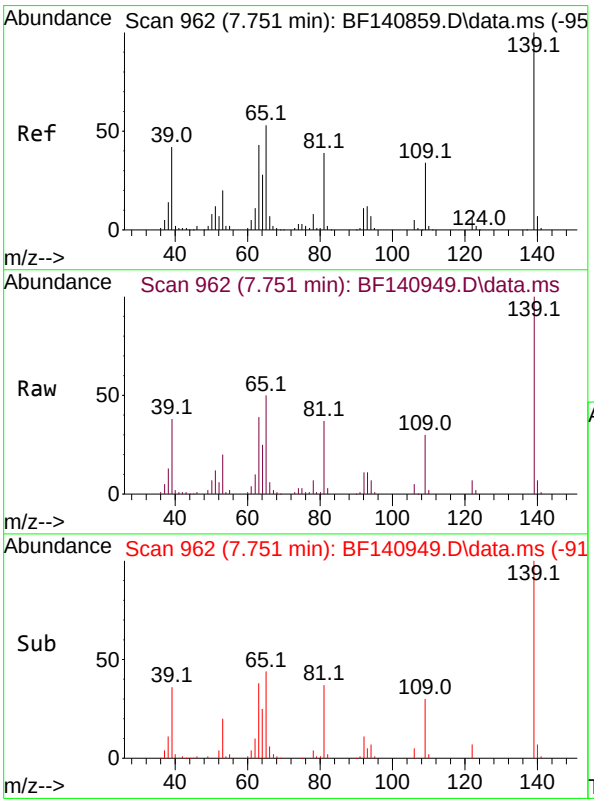
Tgt Ion: 82 Resp: 31439

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.3	9.5
138	18.0	14.1	21.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

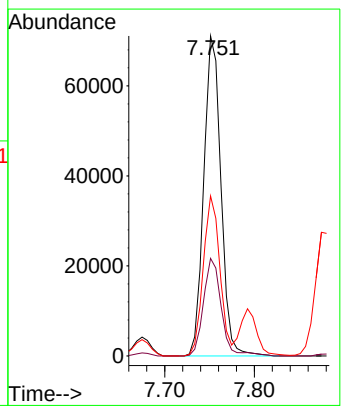
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

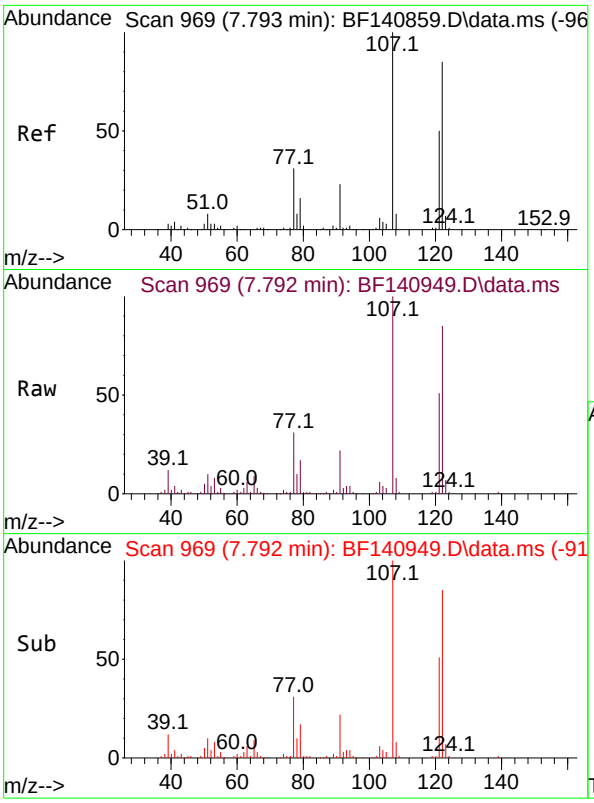


#26
2-Nitrophenol
Concen: 57.032 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:139 Resp: 94485

Ion	Ratio	Lower	Upper
139	100		
109	30.5	26.9	40.3
65	50.0	42.6	64.0

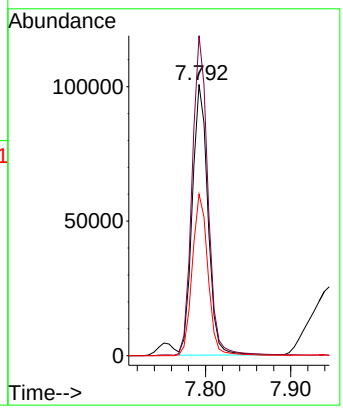




#27
2,4-Dimethylphenol
Concen: 66.141 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:122 Resp: 12796

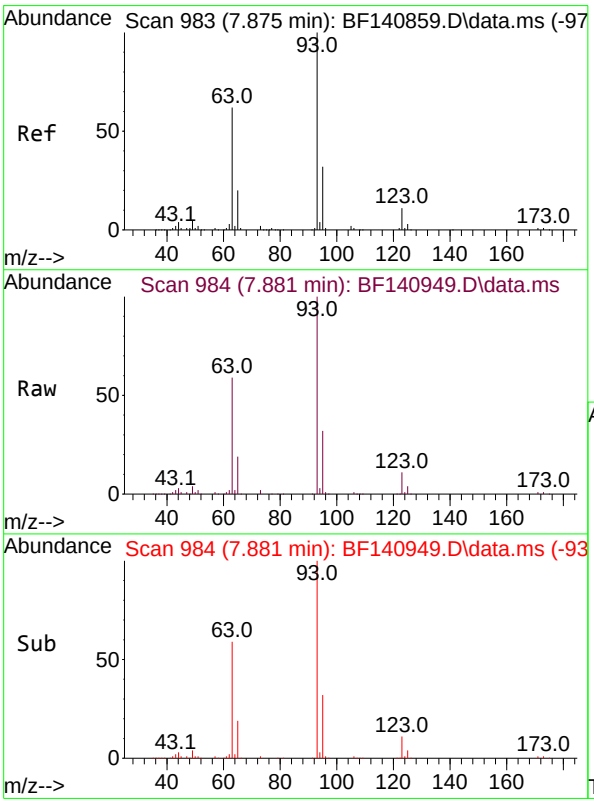
Ion	Ratio	Lower	Upper
122	100		
107	118.0	92.6	139.0
121	59.6	45.8	68.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

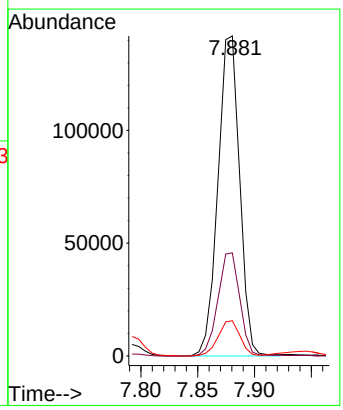
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

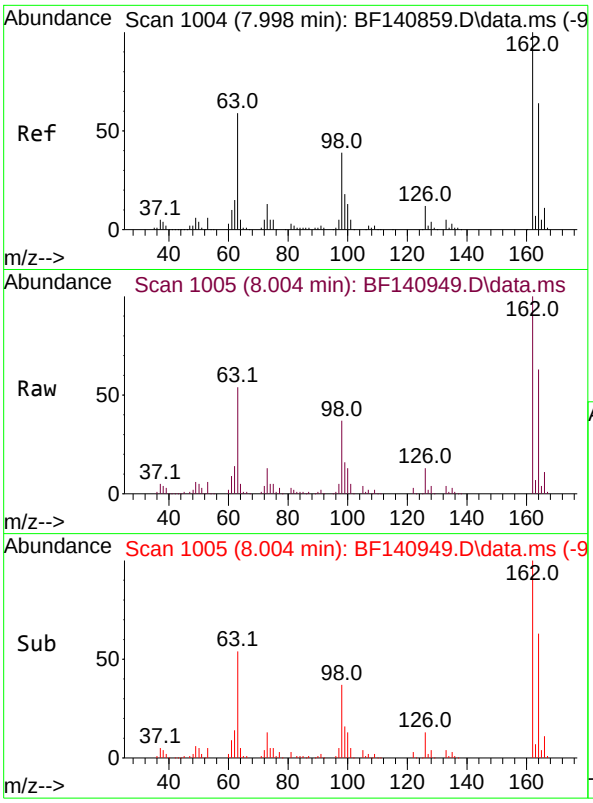


#28
bis(2-Chloroethoxy)methane
Concen: 51.420 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 93 Resp: 188944

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.3	37.9
123	11.0	8.6	13.0

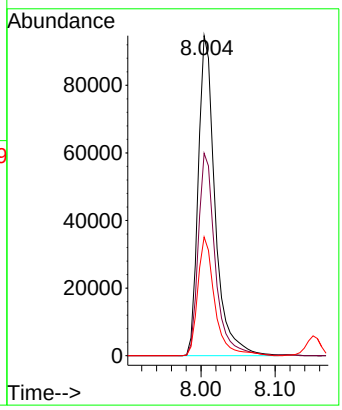




#29
2,4-Dichlorophenol
Concen: 55.934 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

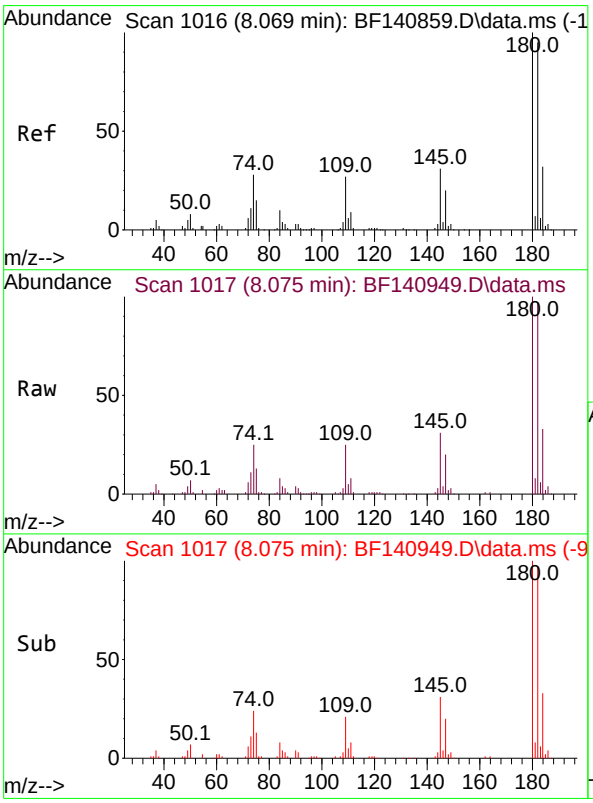
Tgt Ion:162 Resp: 14940

Ion	Ratio	Lower	Upper
162	100		
164	63.3	43.7	83.7
98	37.1	18.6	58.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

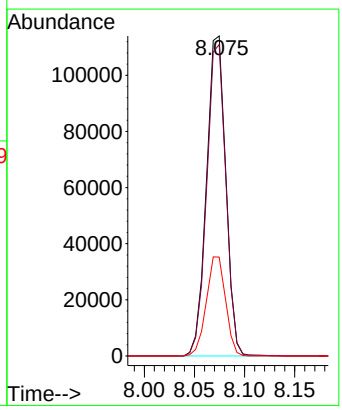
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

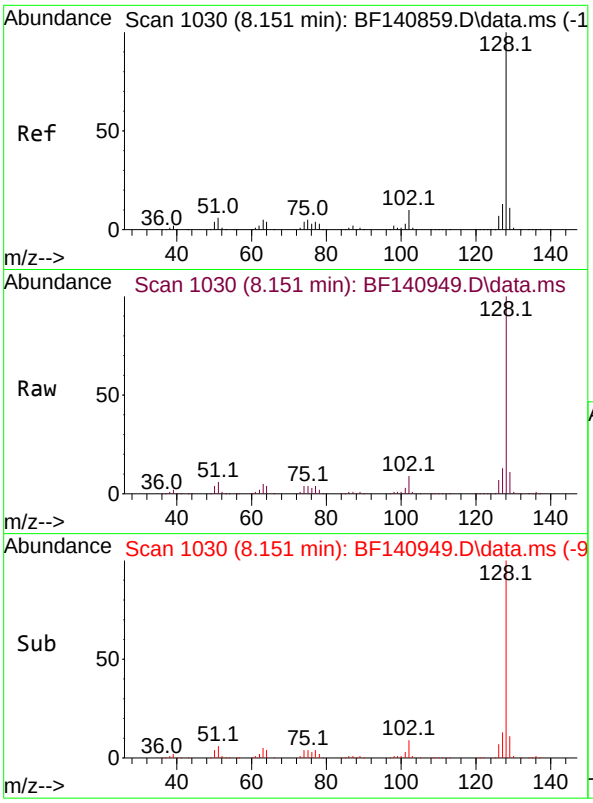


#30
1,2,4-Trichlorobenzene
Concen: 50.051 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:180 Resp: 153263

Ion	Ratio	Lower	Upper
180	100		
182	97.3	75.8	113.6
145	30.9	25.2	37.8

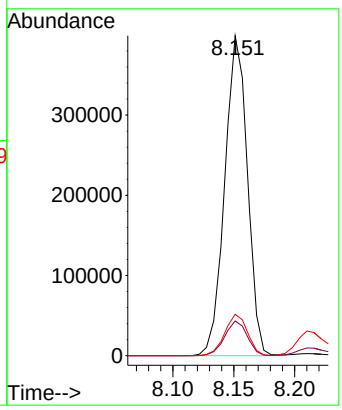




#31
Naphthalene
Concen: 53.602 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:128 Resp: 51724

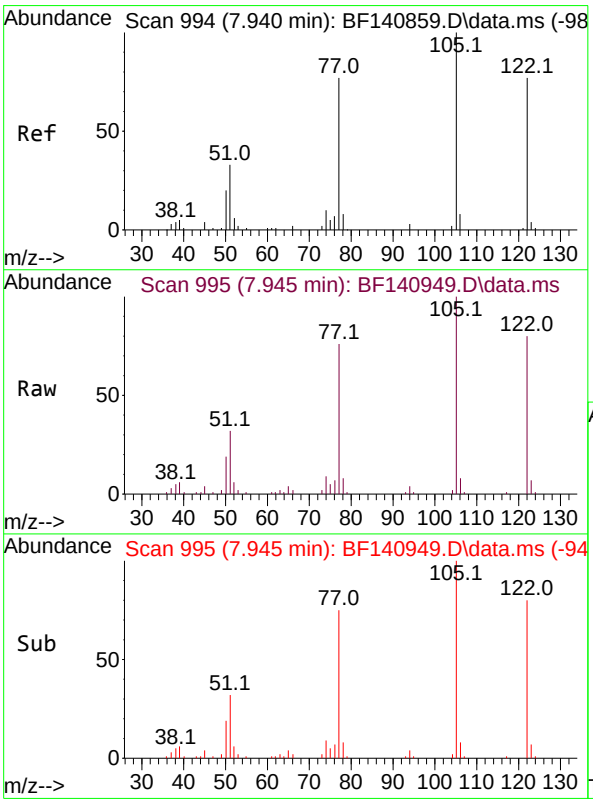
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	13.0	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

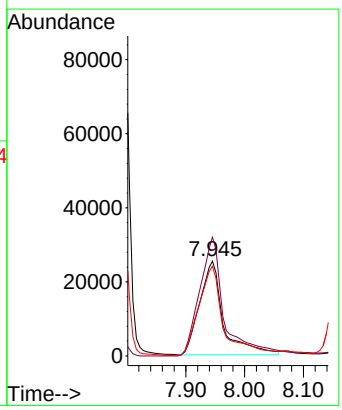
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

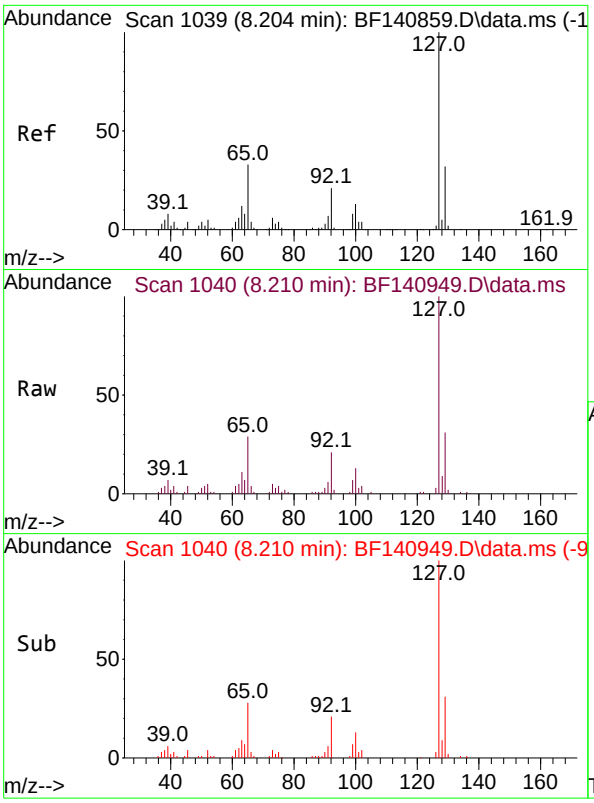


#32
Benzoic acid
Concen: 39.151 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.005 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:122 Resp: 71840

Ion	Ratio	Lower	Upper
122	100		
105	125.1	108.3	148.3
77	94.6	78.8	118.8

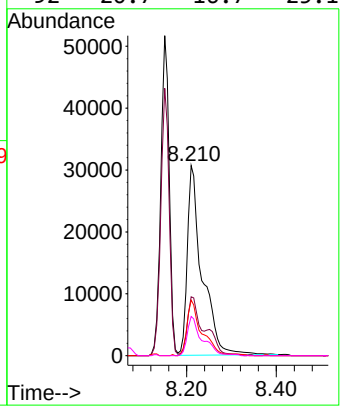




#33
4-Chloroaniline
Concen: 22.062 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:127 Resp: 7070

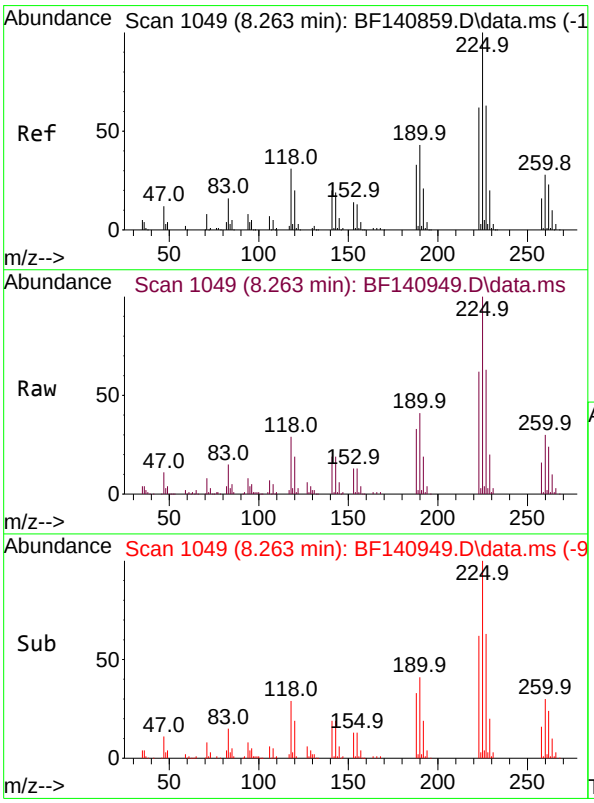
Ion	Ratio	Lower	Upper
127	100		
129	31.0	26.0	39.0
65	29.2	26.0	39.0
92	20.7	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

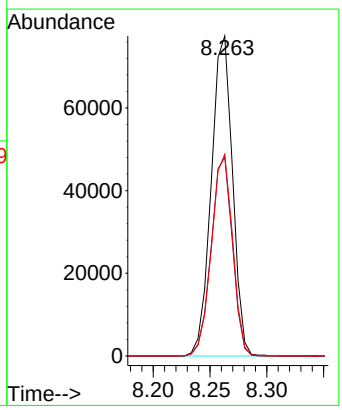
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

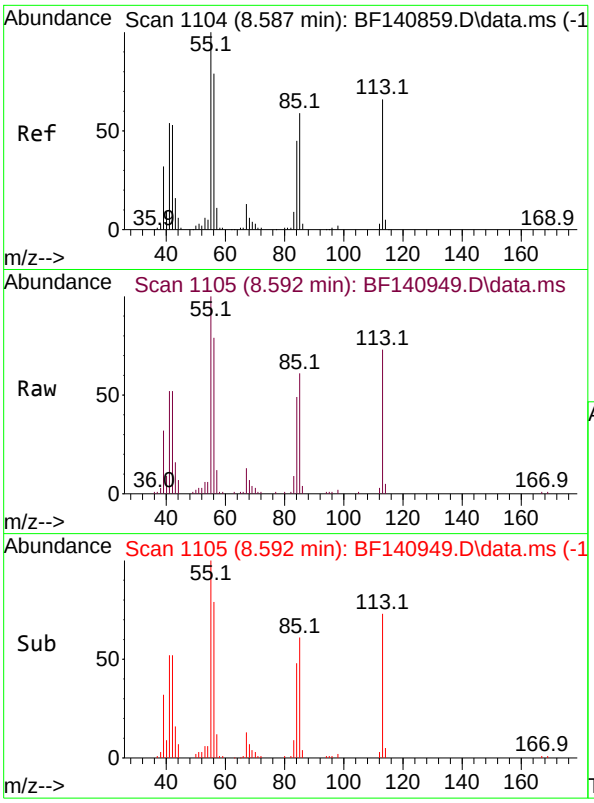


#34
Hexachlorobutadiene
Concen: 48.916 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:225 Resp: 100776

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.6	74.4
227	63.0	50.7	76.1

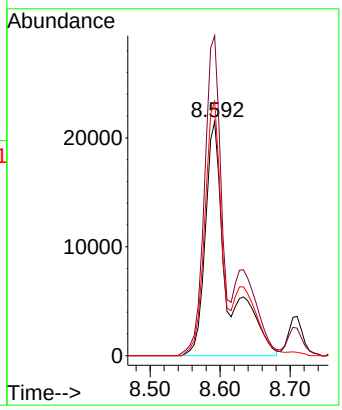




#35
Caprolactam
Concen: 59.086 ng m
RT: 8.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:113 Resp: 4698

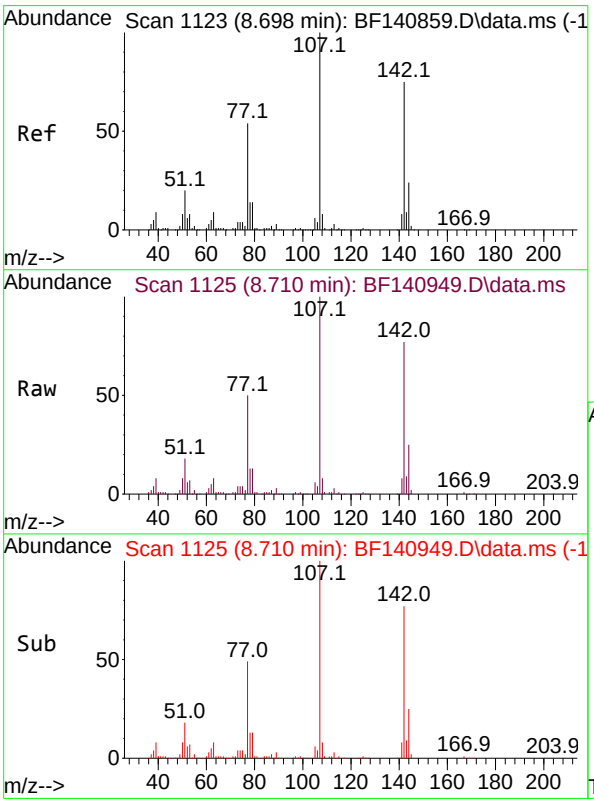
Ion	Ratio	Lower	Upper
113	100		
55	136.7	132.3	172.3
56	108.7	100.3	140.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

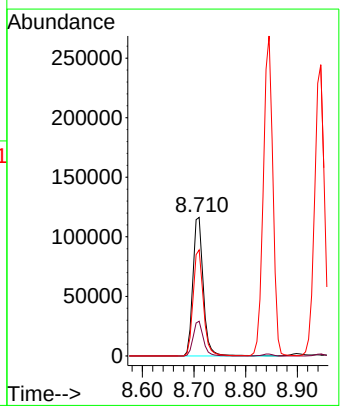
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

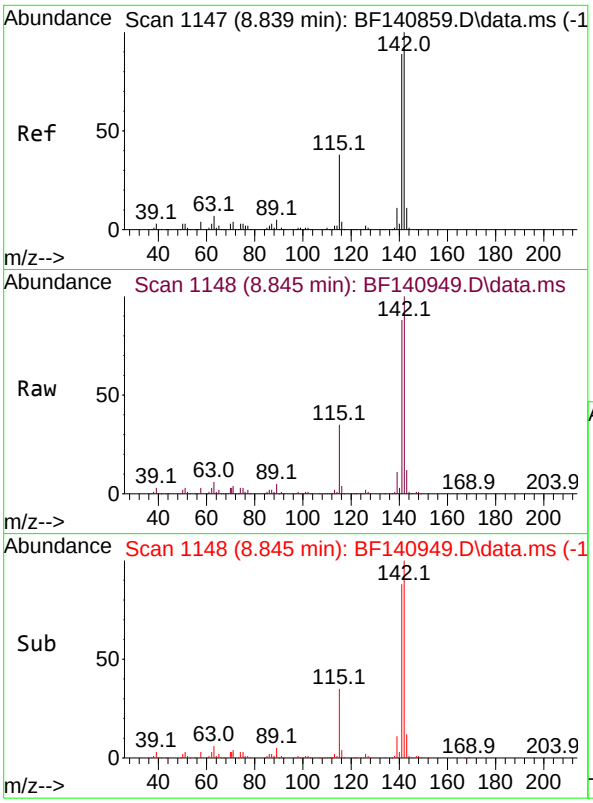


#36
4-Chloro-3-methylphenol
Concen: 54.366 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:107 Resp: 163449

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.4	29.2
142	76.5	60.3	90.5

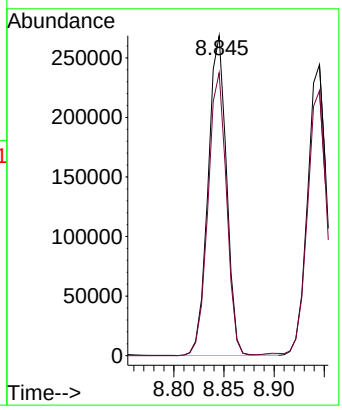




#37
2-Methylnaphthalene
Concen: 53.795 ng
RT: 8.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:142 Resp: 34339

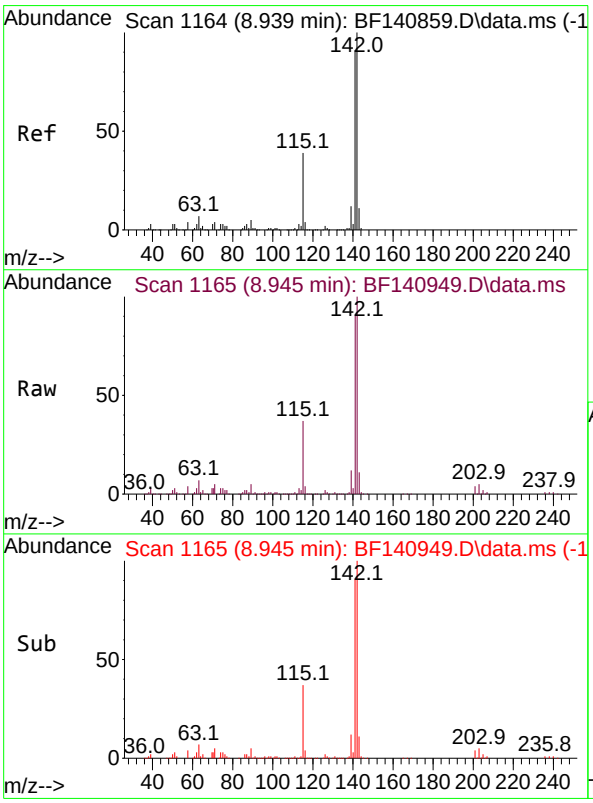
Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.0	106.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

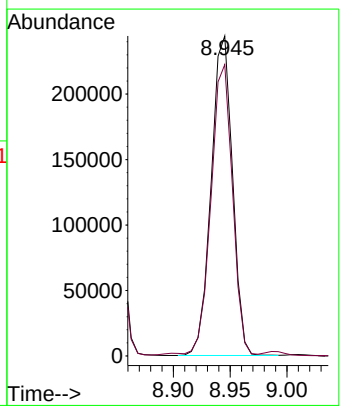
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

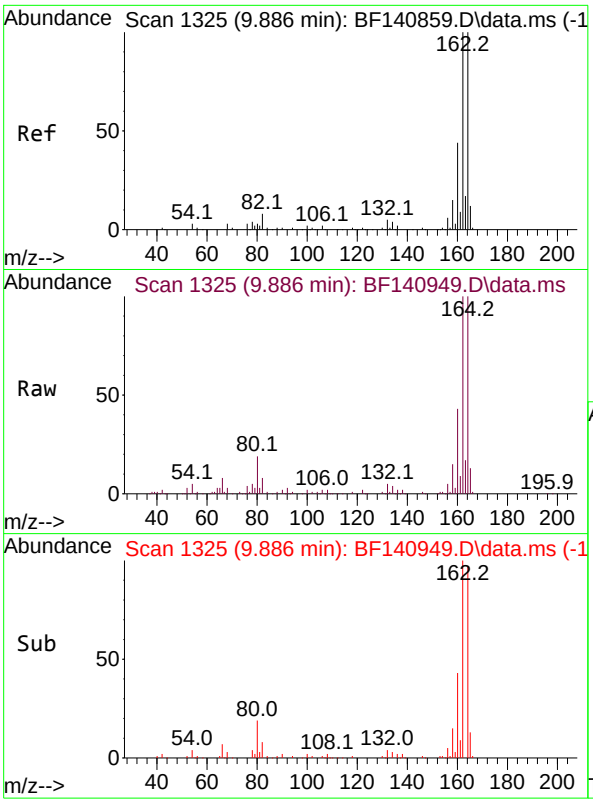


#38
1-Methylnaphthalene
Concen: 50.458 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:142 Resp: 318541

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.4	110.0

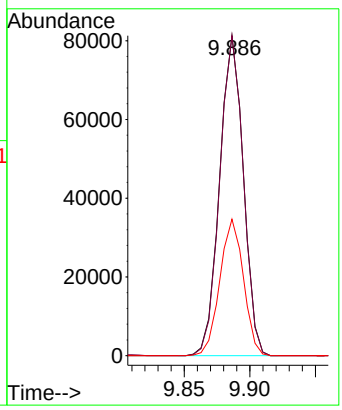




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:164 Resp: 10215

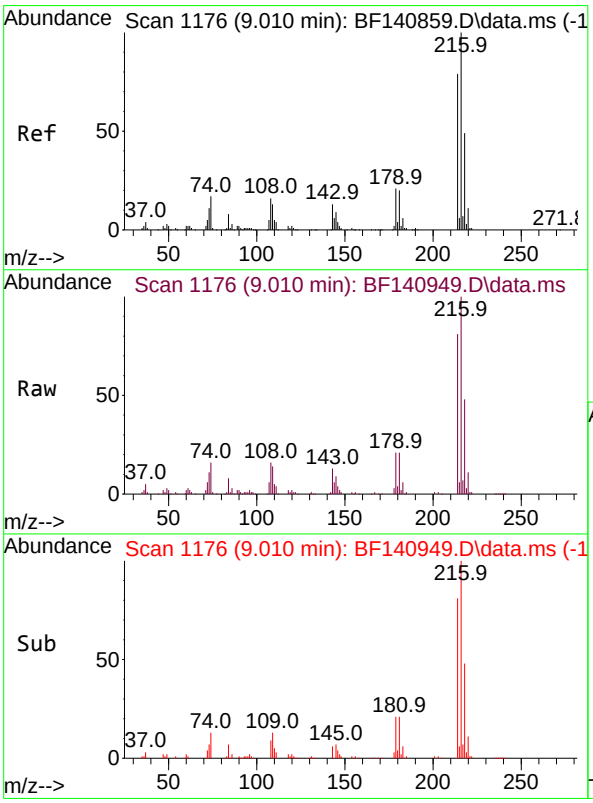
Ion	Ratio	Lower	Upper
164	100		
162	100.0	79.9	119.9
160	42.7	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

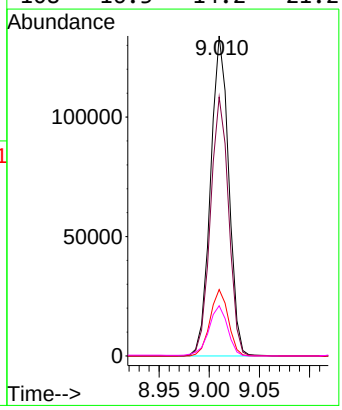
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

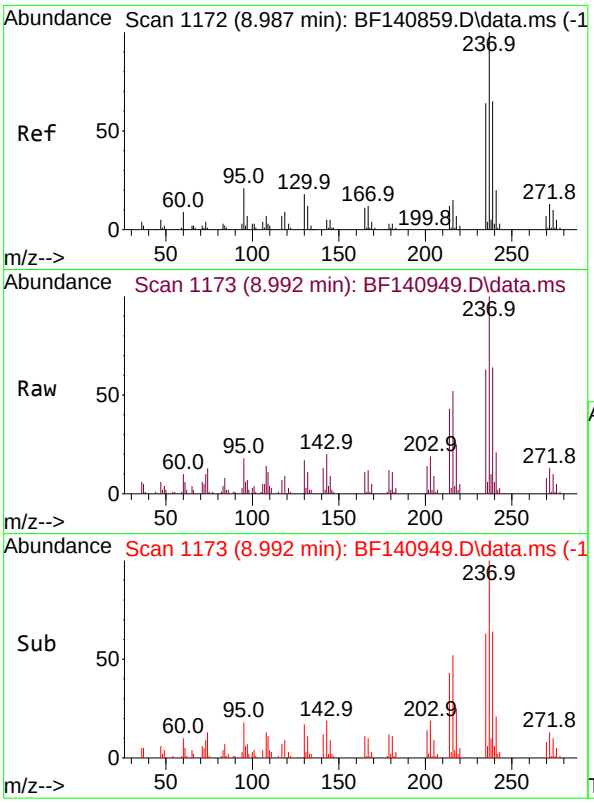


#40
1,2,4,5-Tetrachlorobenzene
Concen: 53.866 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:216 Resp: 169136

Ion	Ratio	Lower	Upper
216	100		
214	80.7	63.6	95.4
179	20.7	17.0	25.4
108	16.3	14.2	21.2

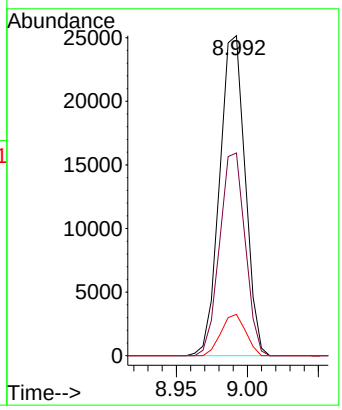




#41
Hexachlorocyclopentadiene
Concen: 41.662 ng
RT: 8.992 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:237 Resp: 3140

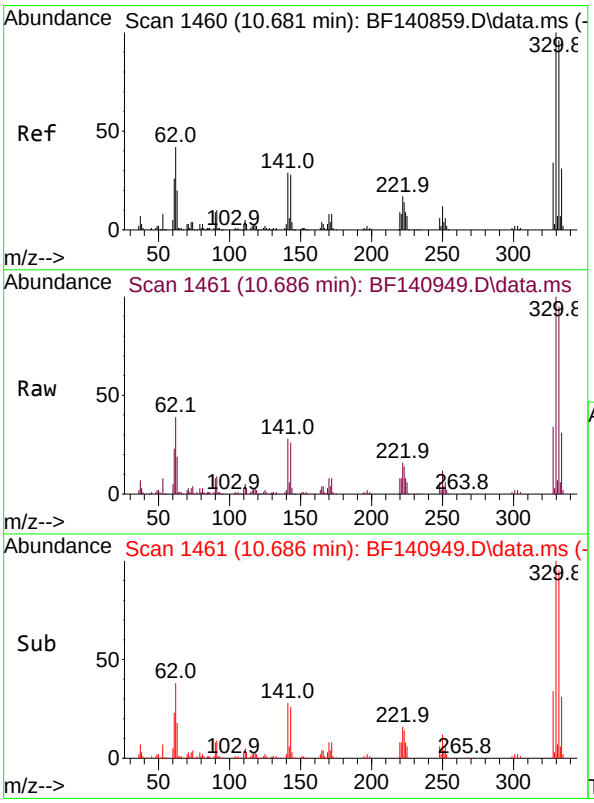
Ion	Ratio	Lower	Upper
237	100		
235	63.4	43.7	83.7
272	12.9	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

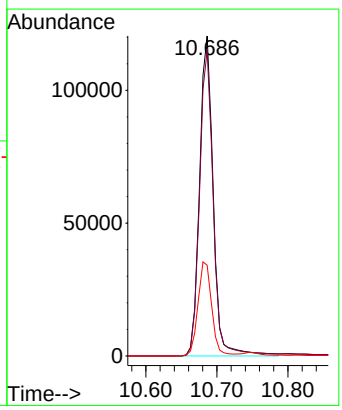
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

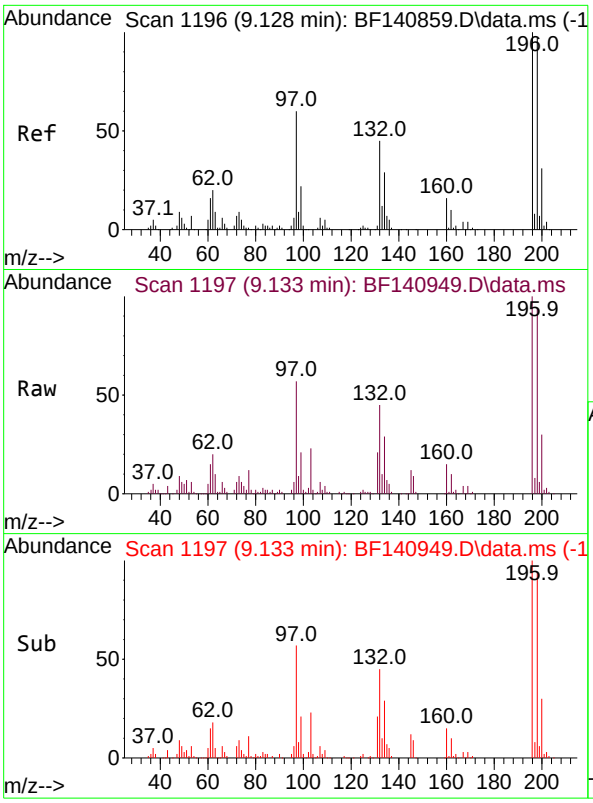


#42
2,4,6-Tribromophenol
Concen: 134.298 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:330 Resp: 162262

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.2	114.4
141	29.6	24.9	37.3

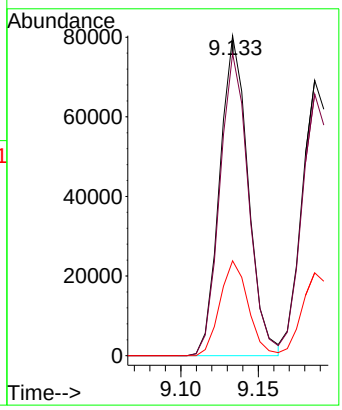




#43
2,4,6-Trichlorophenol
Concen: 53.386 ng
RT: 9.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

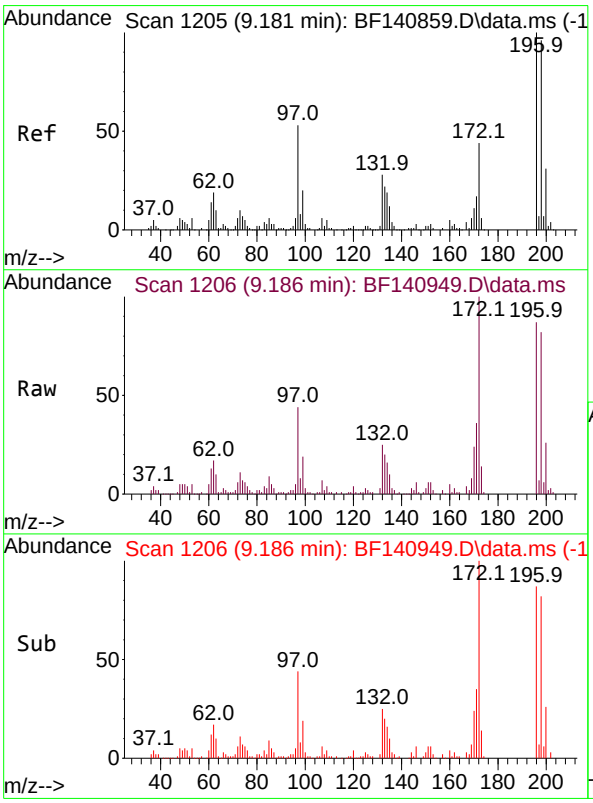
Tgt Ion:196 Resp: 10264

Ion	Ratio	Lower	Upper
196	100		
198	94.4	77.4	116.0
200	29.6	24.5	36.7



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

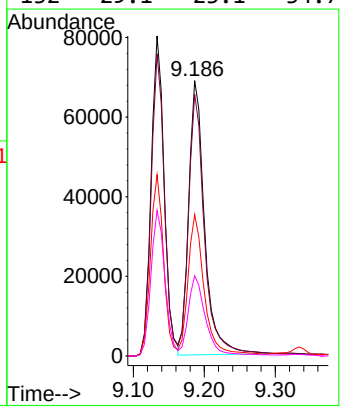
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

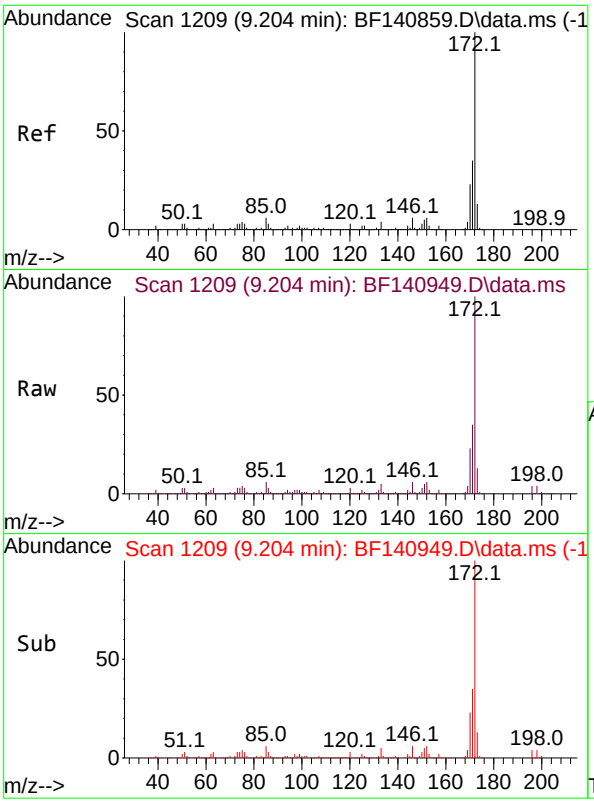


#44
2,4,5-Trichlorophenol
Concen: 50.828 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:196 Resp: 107412

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.2	115.8
97	51.3	42.2	63.4
132	29.1	23.1	34.7

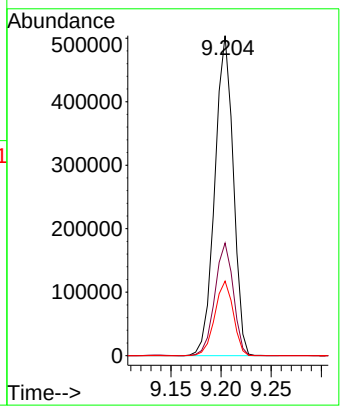




#45
2-Fluorobiphenyl
Concen: 86.762 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:172 Resp: 64467

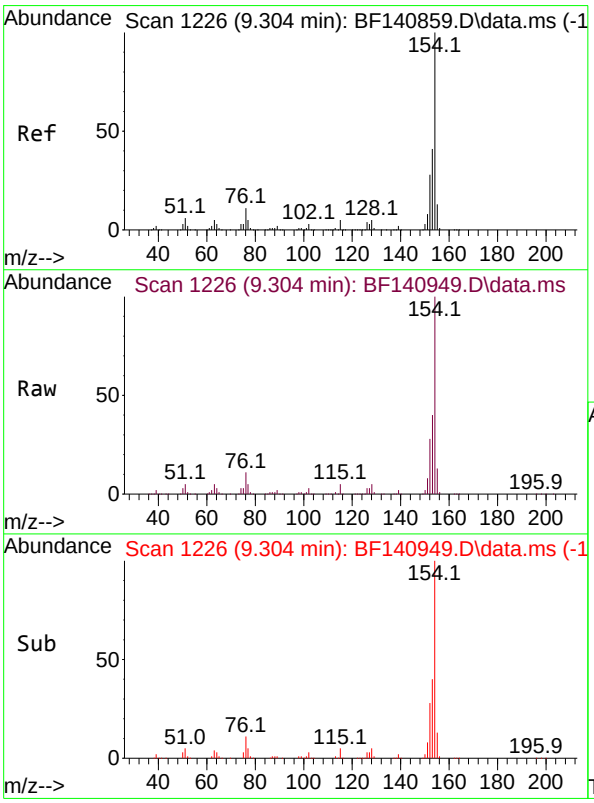
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.3	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

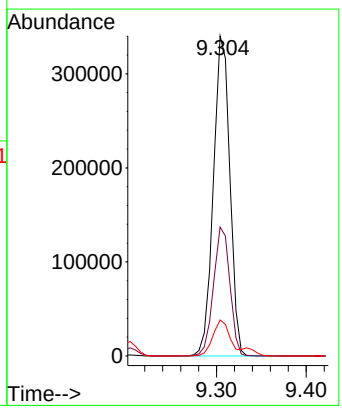
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

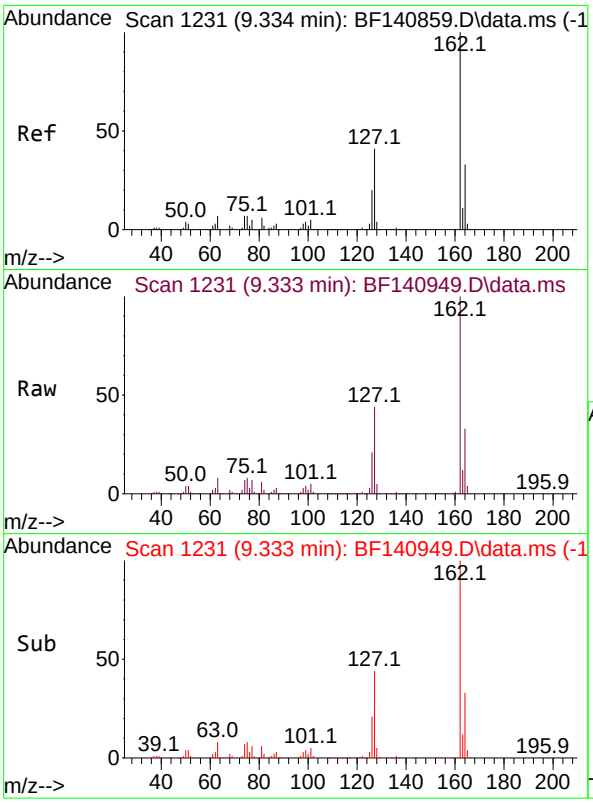


#46
1,1'-Biphenyl
Concen: 53.374 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:154 Resp: 433578

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.8	60.8
76	11.3	0.0	31.0

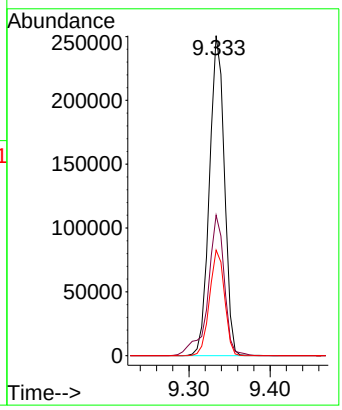




#47
2-Chloronaphthalene
Concen: 51.486 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

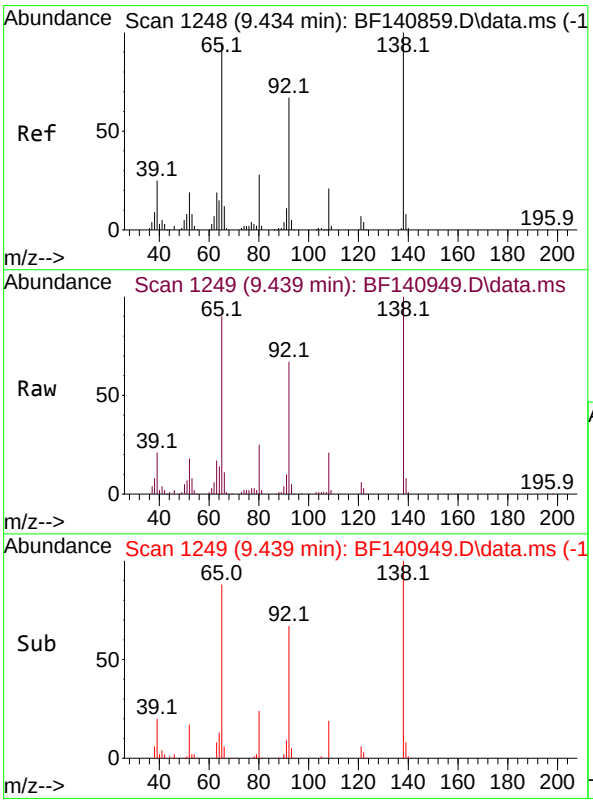
Tgt Ion:162 Resp: 31995

Ion	Ratio	Lower	Upper
162	100		
127	43.9	33.5	50.3
164	33.0	26.2	39.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

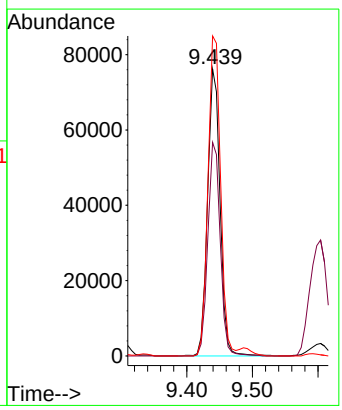
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

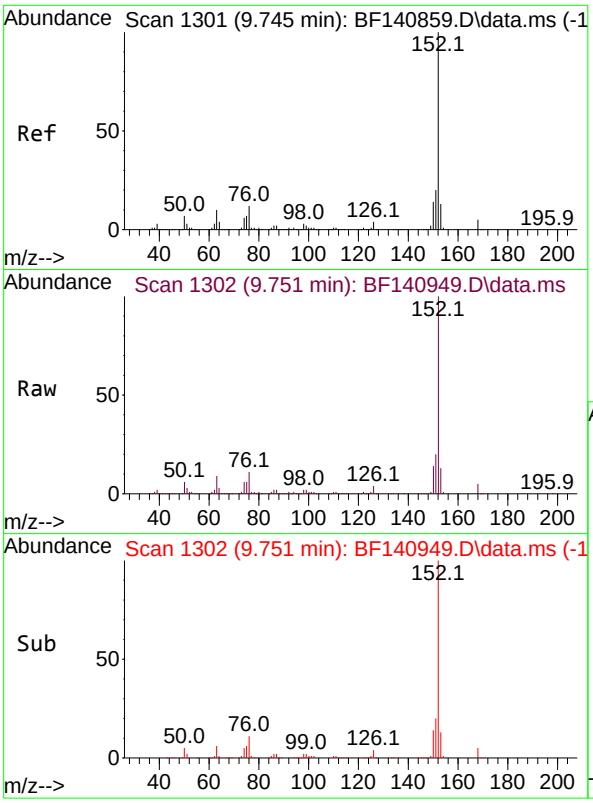


#48
2-Nitroaniline
Concen: 53.688 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 65 Resp: 100764

Ion	Ratio	Lower	Upper
65	100		
92	74.4	56.3	84.5
138	111.5	83.8	125.6

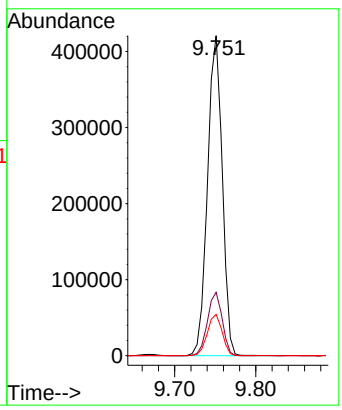




#49
Acenaphthylene
Concen: 57.943 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

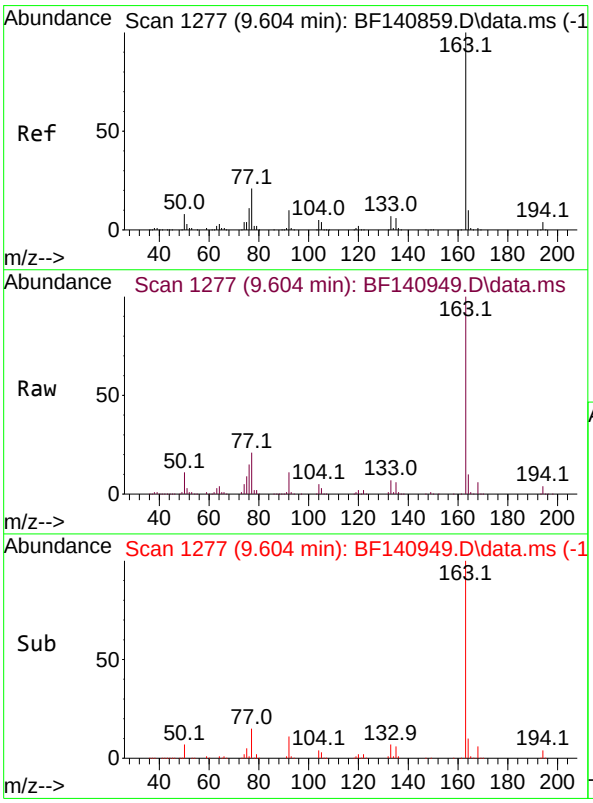
Tgt Ion:152 Resp: 52916

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	12.9	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

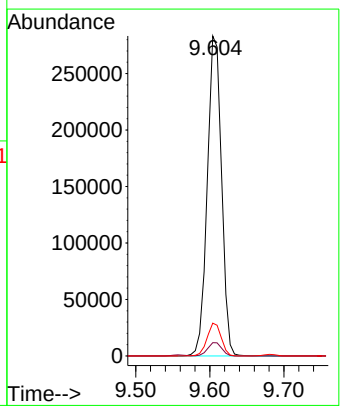
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

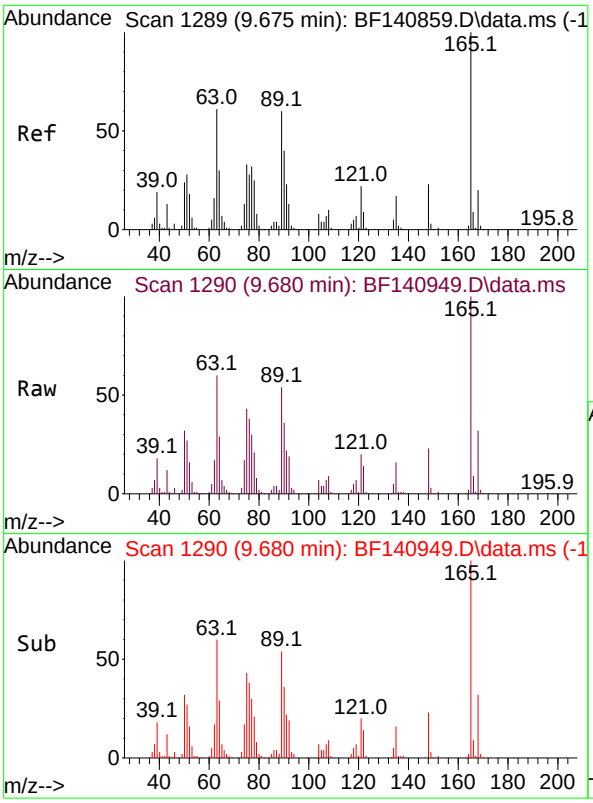


#50
Dimethylphthalate
Concen: 52.492 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:163 Resp: 378063

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.2	8.1	12.1

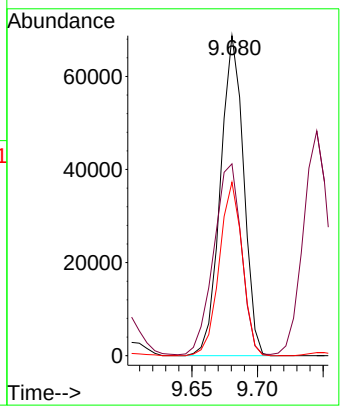




#51
2,6-Dinitrotoluene
Concen: 51.261 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

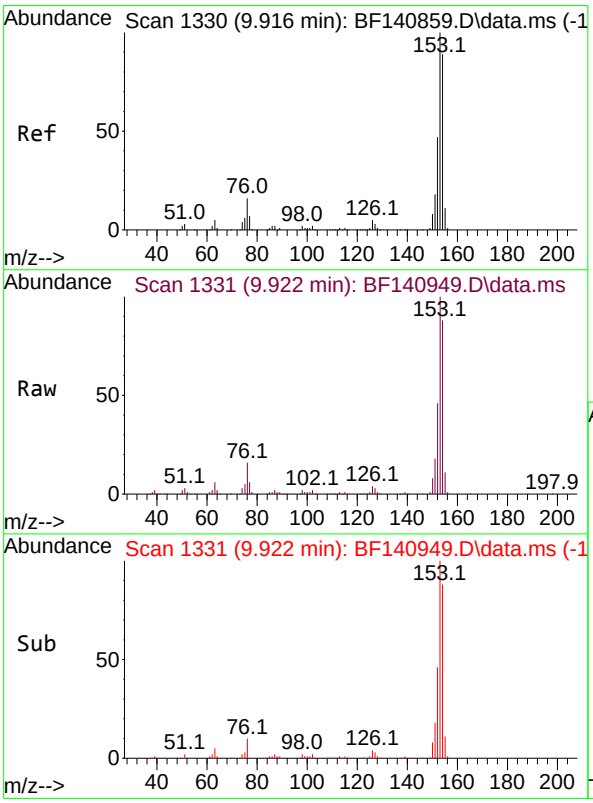
Tgt Ion:165 Resp: 8440

Ion	Ratio	Lower	Upper
165	100		
63	59.9	49.7	74.5
89	54.2	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

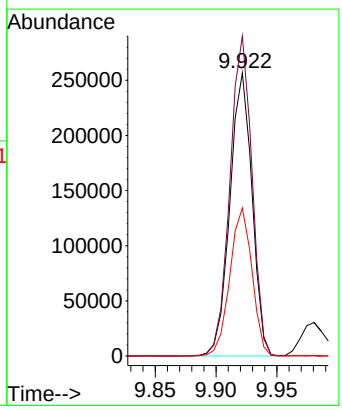
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

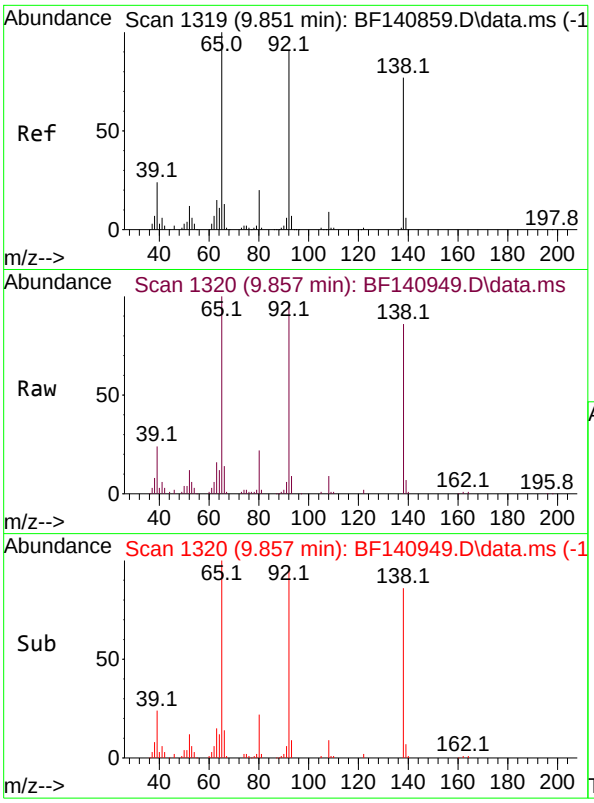


#52
Acenaphthene
Concen: 55.638 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:154 Resp: 324577

Ion	Ratio	Lower	Upper
154	100		
153	113.1	89.9	134.9
152	52.3	42.6	63.8





#53
3-Nitroaniline
Concen: 30.137 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

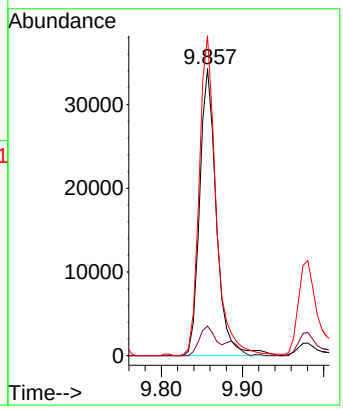
Tgt Ion:138 Resp: 4924

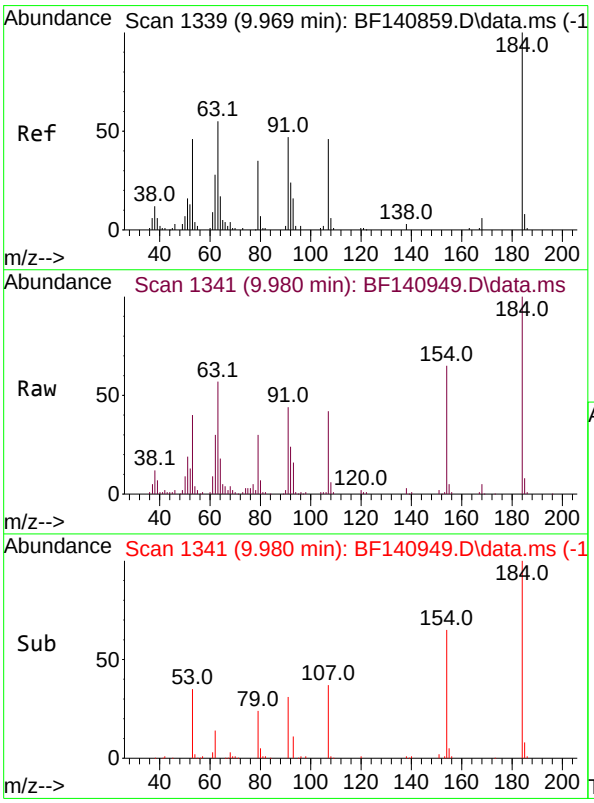
Ion	Ratio	Lower	Upper
138	100		
108	10.3	9.0	13.4
92	111.5	95.5	143.3

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

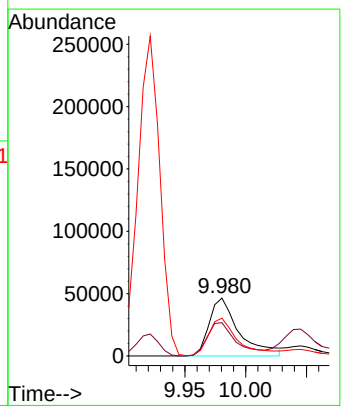


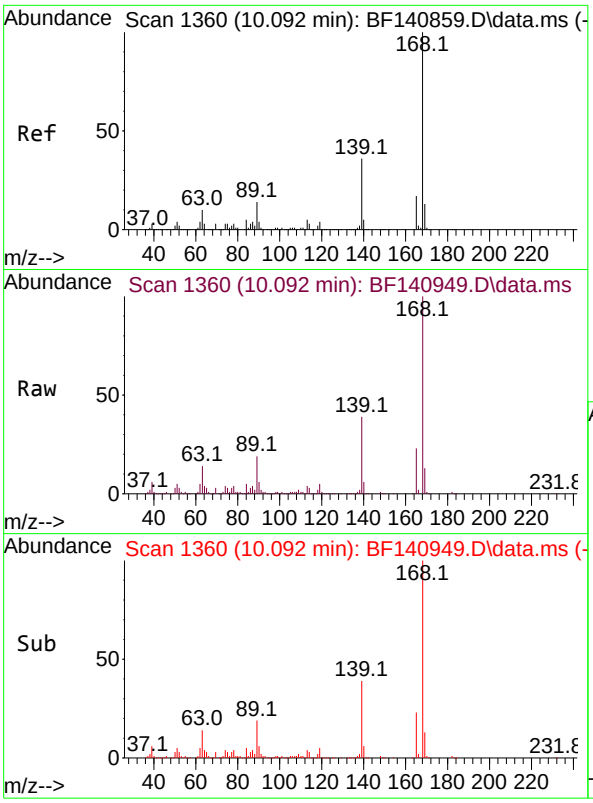


#54
2,4-Dinitrophenol
Concen: 97.834 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.011 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:184 Resp: 79873

Ion	Ratio	Lower	Upper
184	100		
63	57.4	51.6	77.4
154	65.2	56.1	84.1

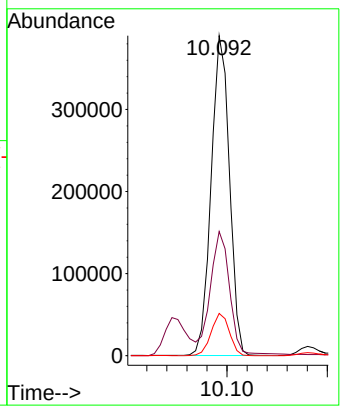




#55
Dibenzofuran
Concen: 54.567 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:168 Resp: 49326

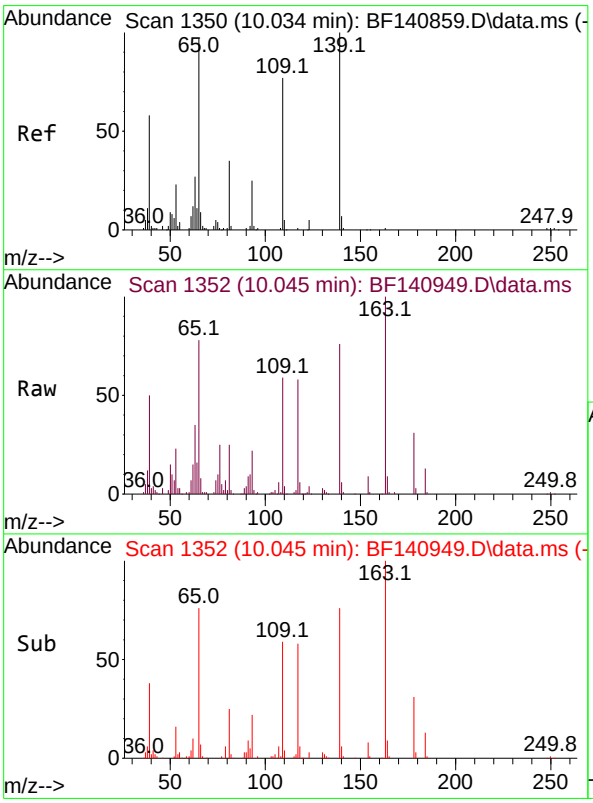
Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.1	46.7
169	13.2	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

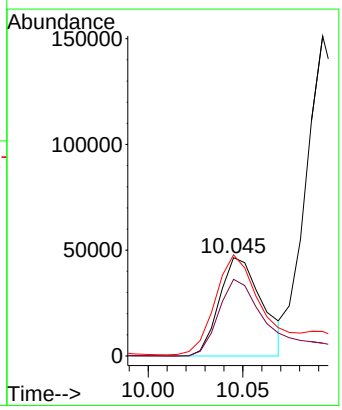
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

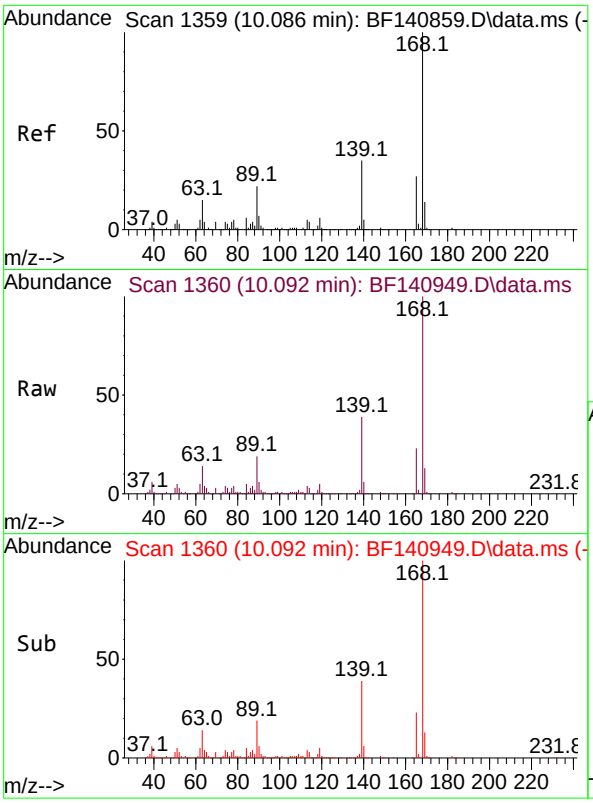


#56
4-Nitrophenol
Concen: 82.863 ng
RT: 10.045 min Scan# 1352
Delta R.T. 0.011 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:139 Resp: 72978

Ion	Ratio	Lower	Upper
139	100		
109	77.9	56.7	96.7
65	102.9	78.1	118.1

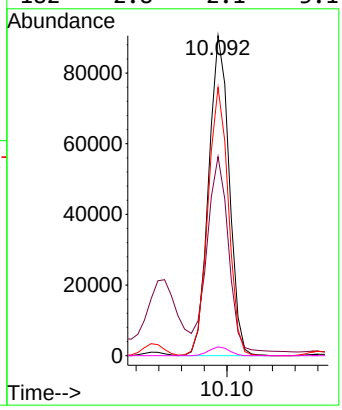




#57
2,4-Dinitrotoluene
Concen: 52.453 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:165 Resp: 11363

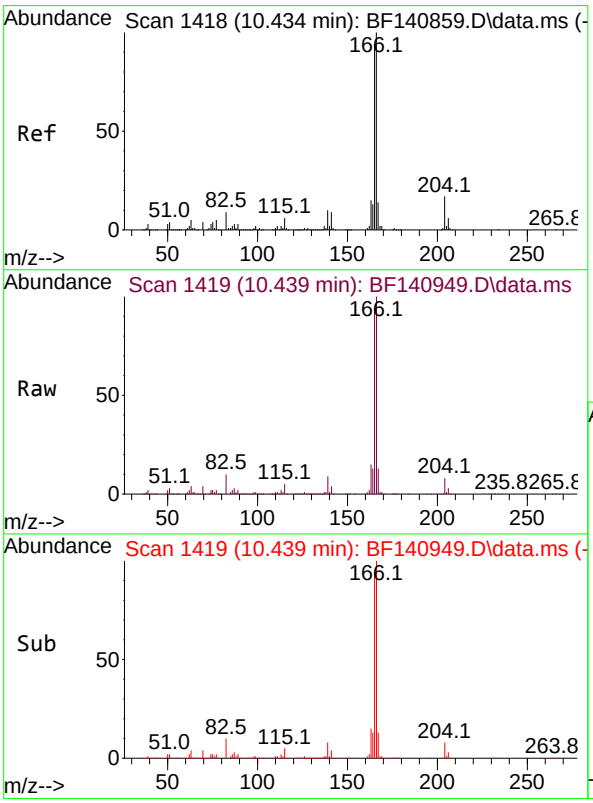
Ion	Ratio	Lower	Upper
165	100		
63	62.2	49.3	73.9
89	83.8	66.2	99.4
182	2.8	2.1	3.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

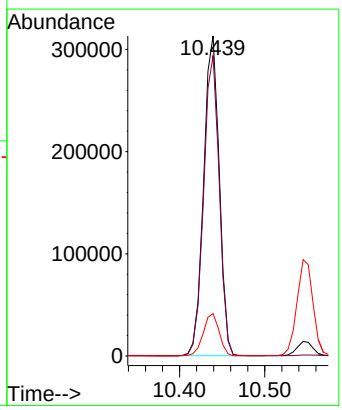
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

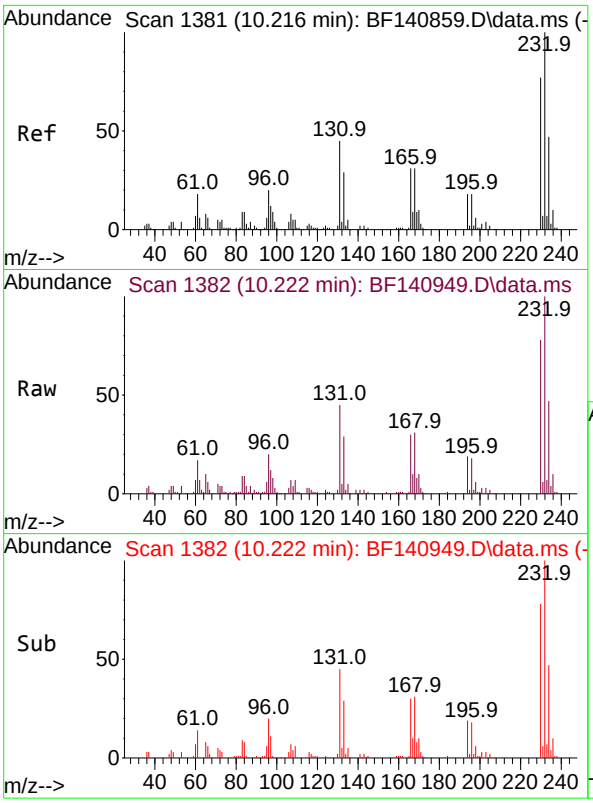


#58
Fluorene
Concen: 53.279 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:166 Resp: 397342

Ion	Ratio	Lower	Upper
166	100		
165	93.8	75.1	112.7
167	13.3	11.1	16.7

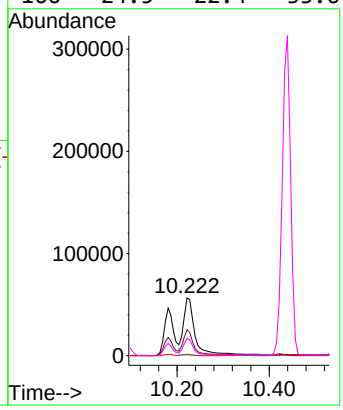




#59
2,3,4,6-Tetrachlorophenol
Concen: 56.336 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

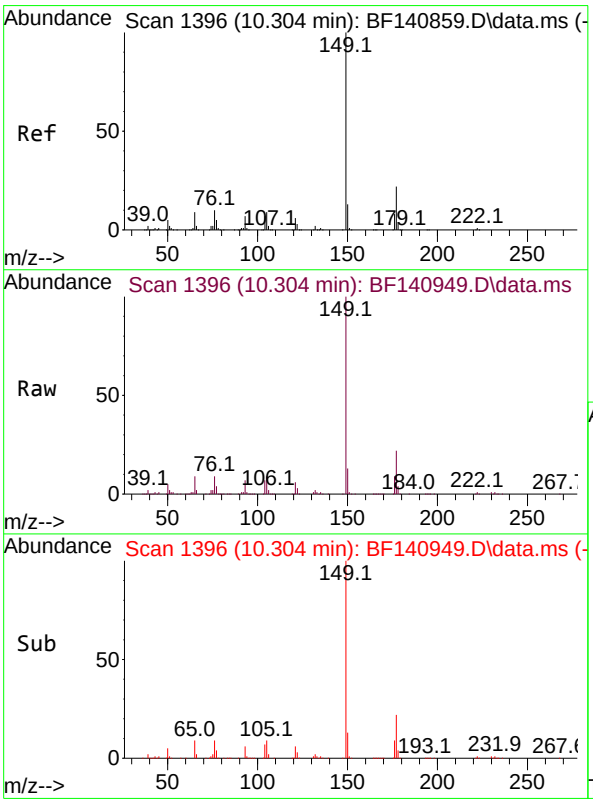
Tgt Ion:232 Resp: 9700

Ion	Ratio	Lower	Upper
232	100		
131	36.7	35.1	52.7
130	2.0	1.8	2.8
166	24.5	22.4	33.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

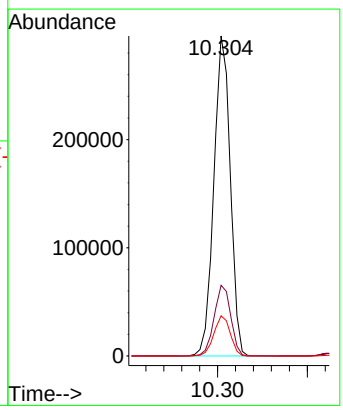
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

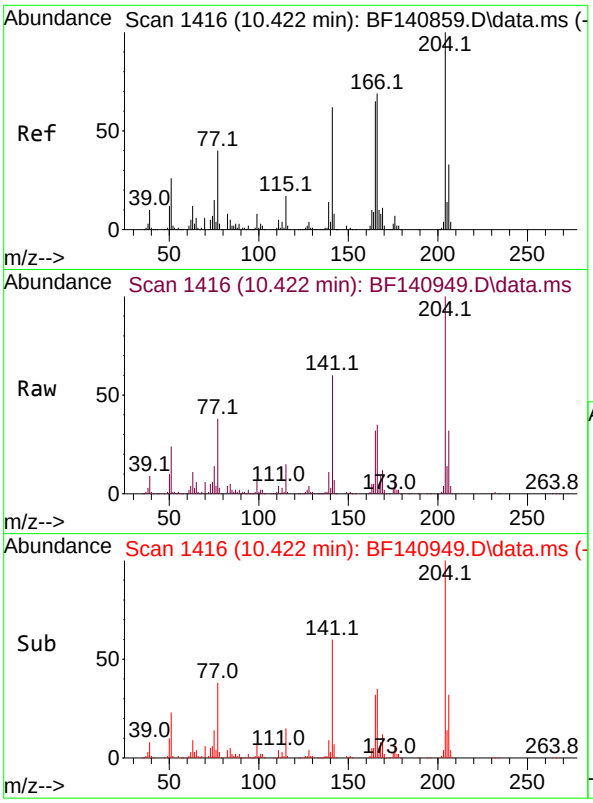


#60
Diethylphthalate
Concen: 50.345 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 376001

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.2	25.8
150	12.6	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 51.761 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

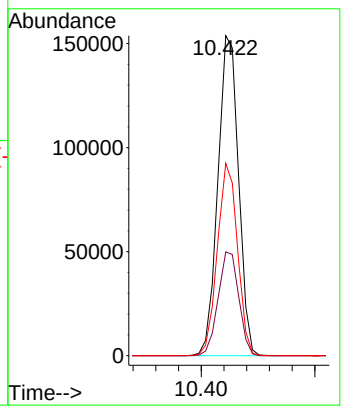
Tgt Ion:204 Resp: 19390

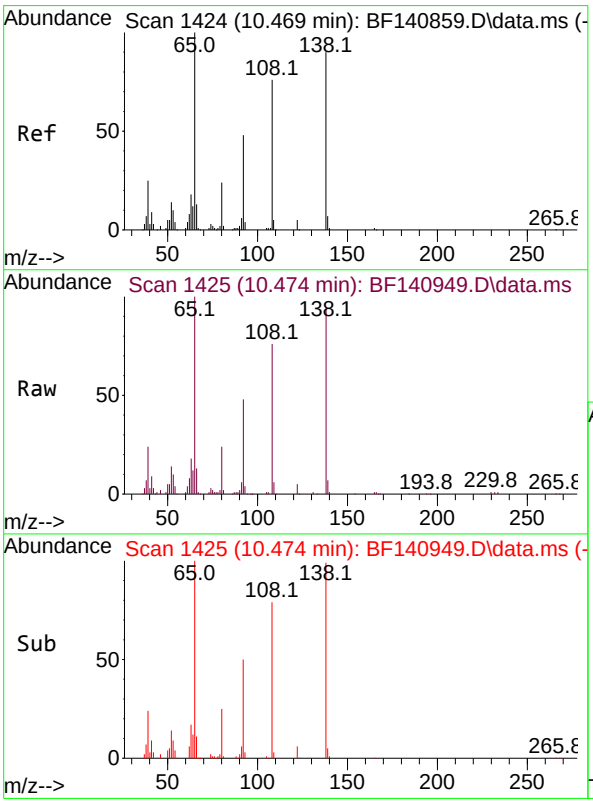
Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.5	39.7
141	60.0	50.0	75.0

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

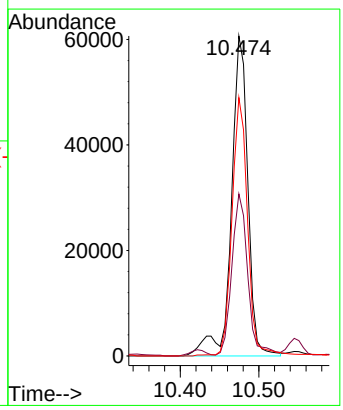


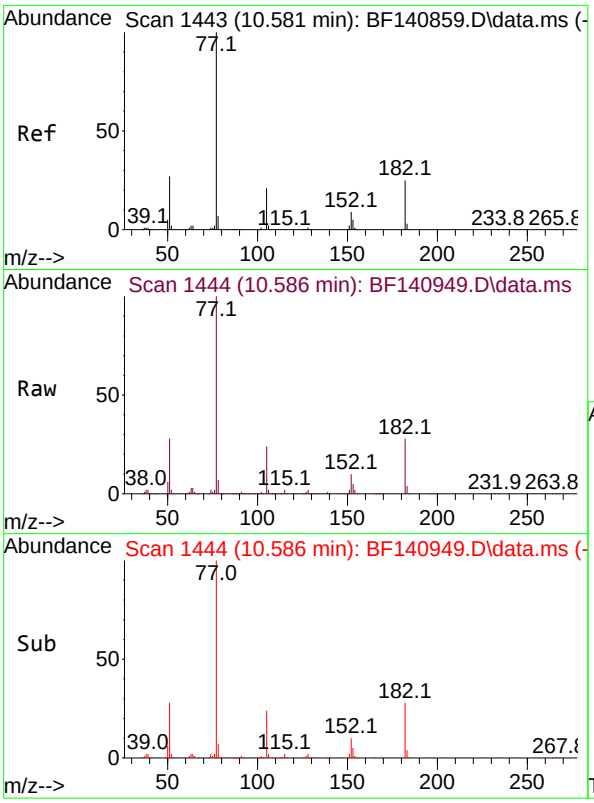


#62
4-Nitroaniline
Concen: 51.770 ng m
RT: 10.474 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:138 Resp: 88397

Ion	Ratio	Lower	Upper
138	100		
92	50.7	32.6	72.6
108	80.7	64.1	104.1

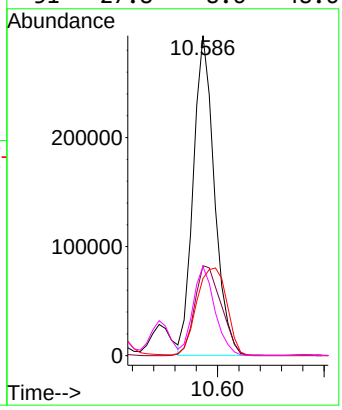




#63
Azobenzene
Concen: 57.590 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 77 Resp: 40435

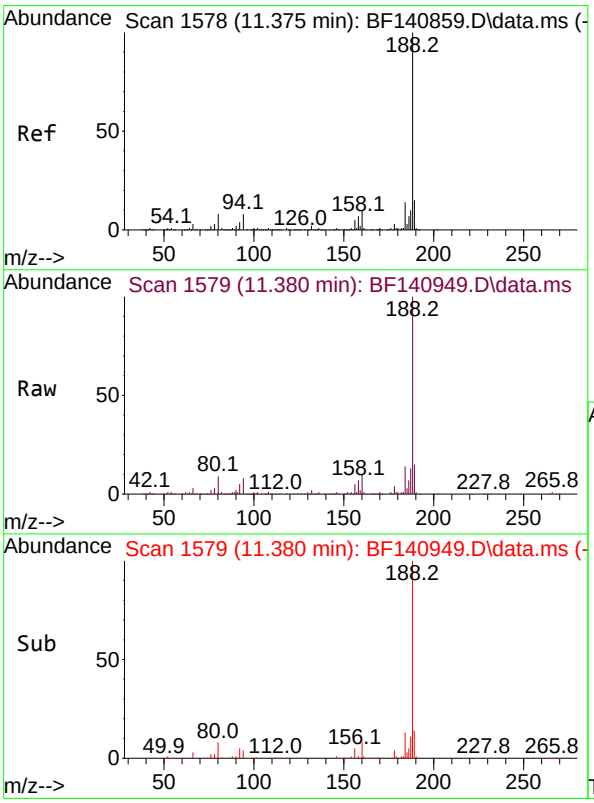
Ion	Ratio	Lower	Upper
77	100		
182	28.1	4.5	44.5
105	24.2	0.9	40.9
51	27.8	8.6	48.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

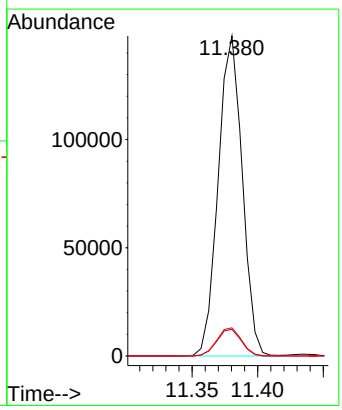
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

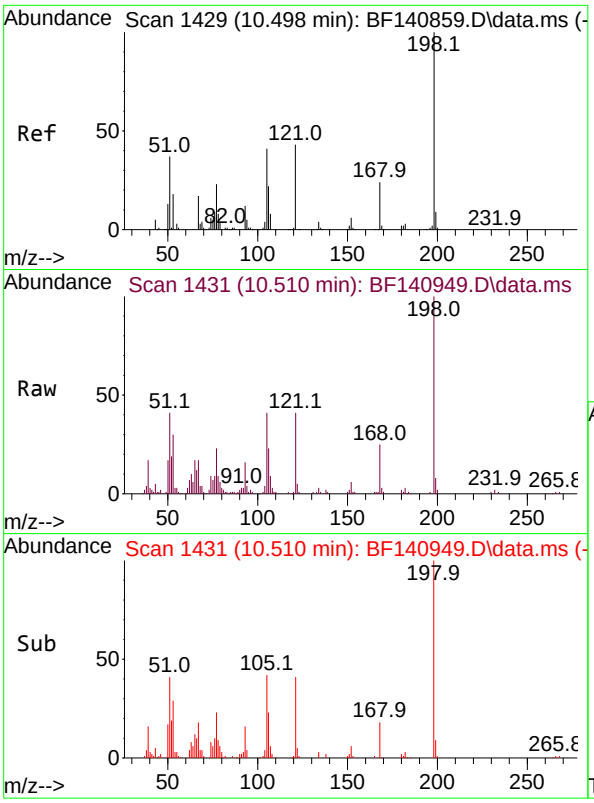


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:188 Resp: 188148

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.4	9.6
80	8.8	6.8	10.2

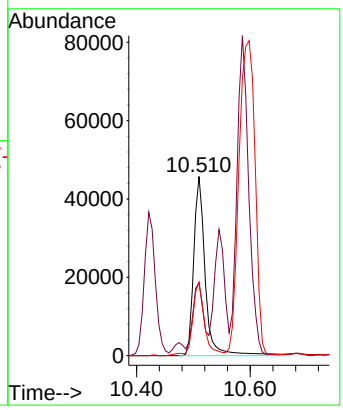




#65
4,6-Dinitro-2-methylphenol
Concen: 60.672 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:198 Resp: 6468

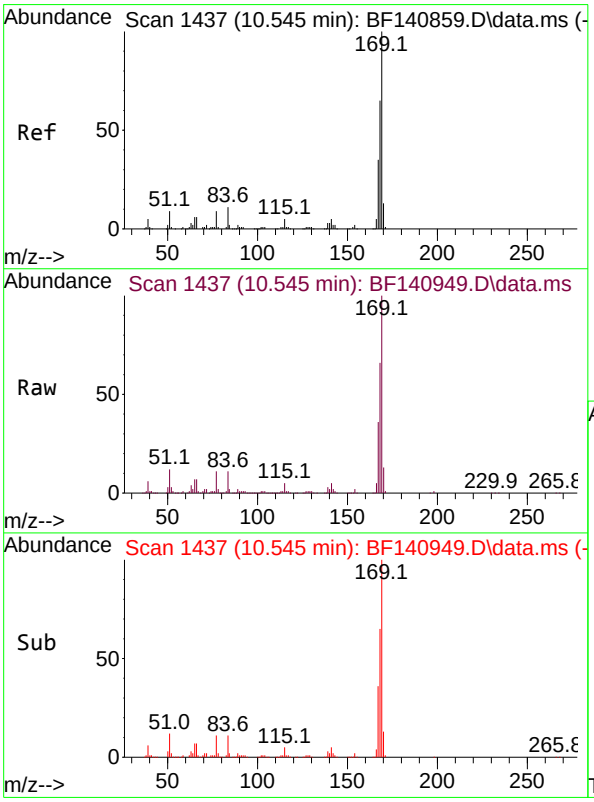
Ion	Ratio	Lower	Upper
198	100		
51	40.7	24.4	64.4
105	41.0	22.1	62.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

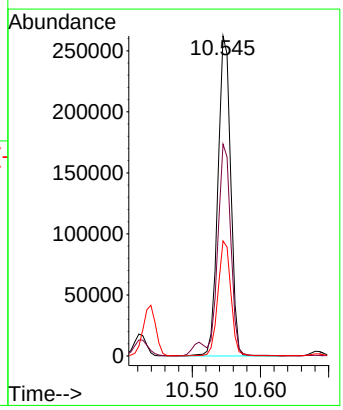
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

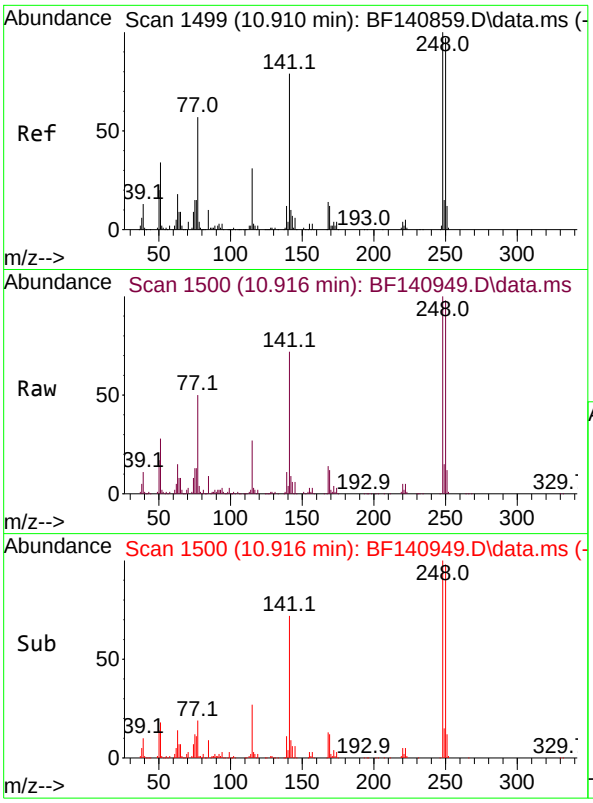


#66
n-Nitrosodiphenylamine
Concen: 58.988 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:169 Resp: 341229

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.4	80.0
167	36.0	28.3	42.5

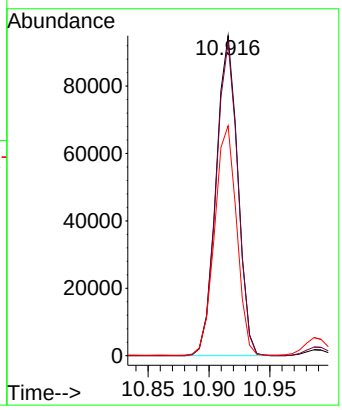




#67
4-Bromophenyl-phenylether
Concen: 55.838 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

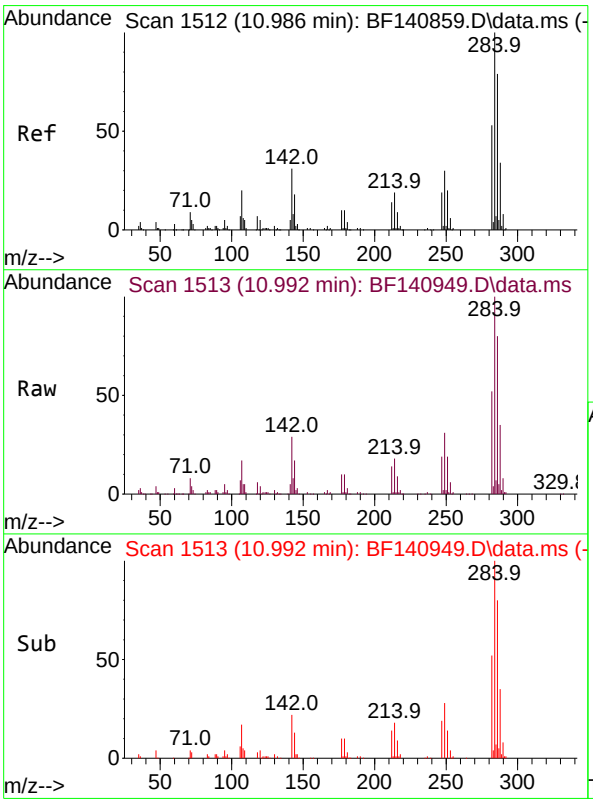
Tgt Ion:248 Resp: 11753

Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.4	116.2
141	71.8	62.9	94.3



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

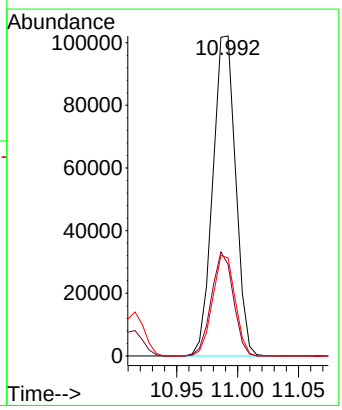
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

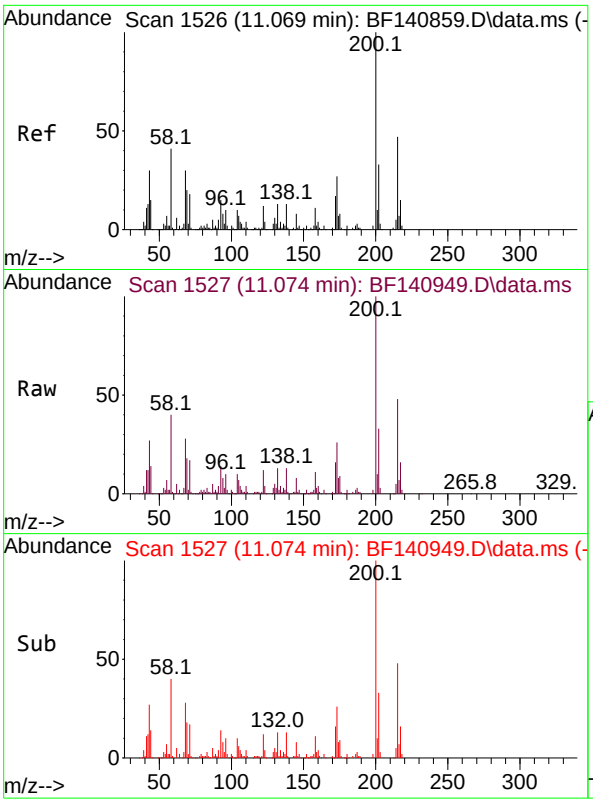


#68
Hexachlorobenzene
Concen: 55.821 ng
RT: 10.992 min Scan# 1513
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:284 Resp: 133215

Ion	Ratio	Lower	Upper
284	100		
142	28.6	24.6	36.8
249	30.6	24.3	36.5

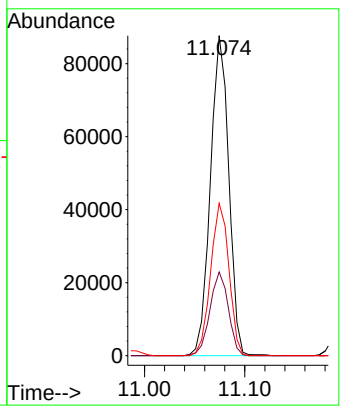




#69
Atrazine
Concen: 69.163 ng
RT: 11.074 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:200 Resp: 11173

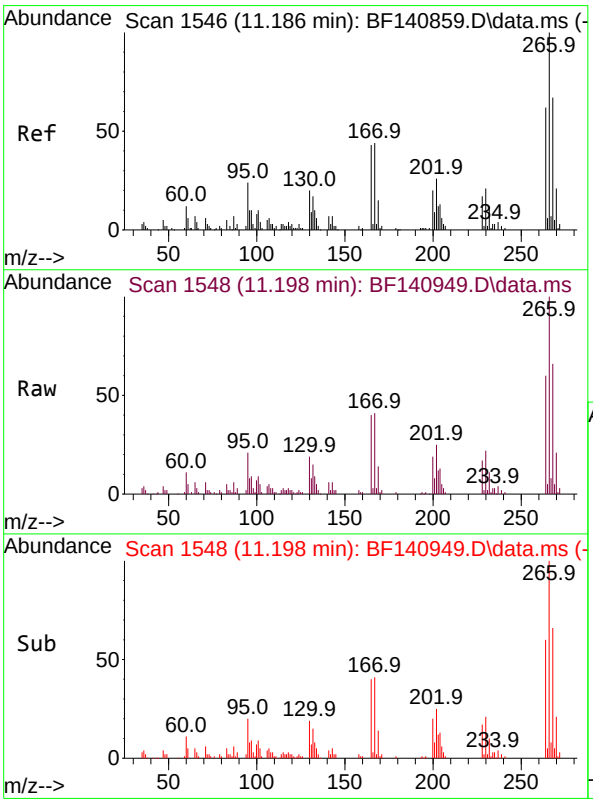
Ion	Ratio	Lower	Upper
200	100		
173	26.1	6.6	46.6
215	47.6	26.7	66.7



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

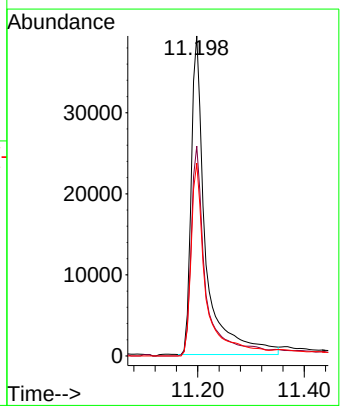
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

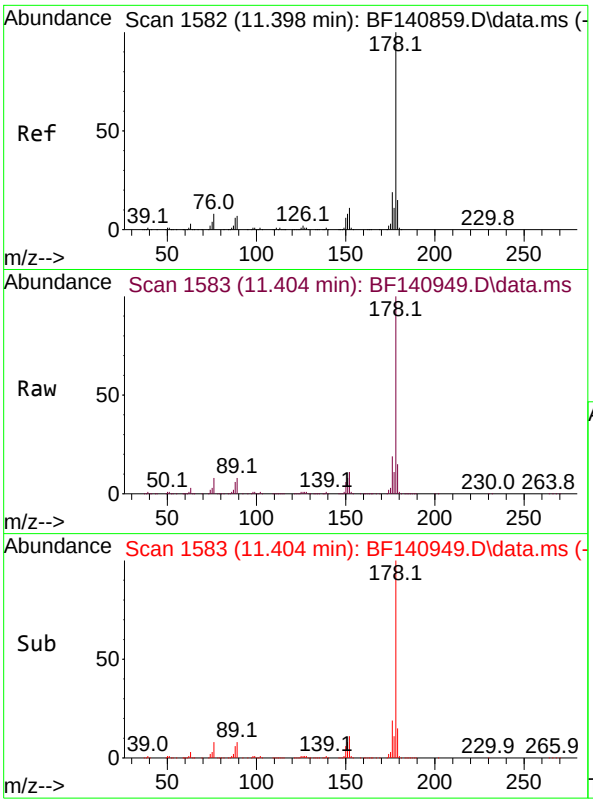


#70
Pentachlorophenol
Concen: 85.412 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:266 Resp: 74523

Ion	Ratio	Lower	Upper
266	100		
268	65.6	54.0	81.0
264	60.3	49.4	74.2

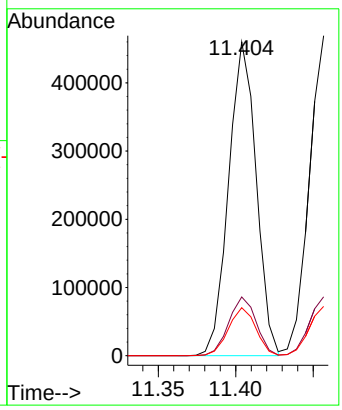




#71
Phenanthrene
Concen: 58.813 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:178 Resp: 56903

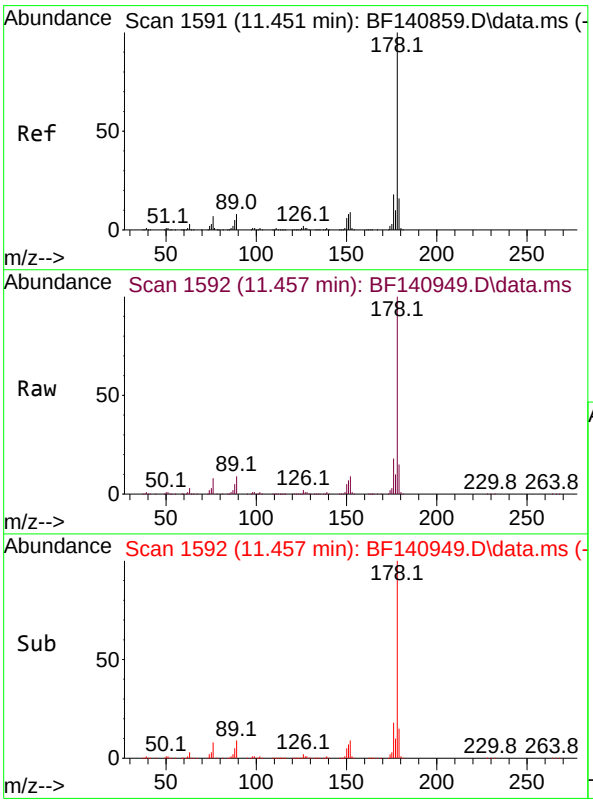
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.3	12.1	18.1



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

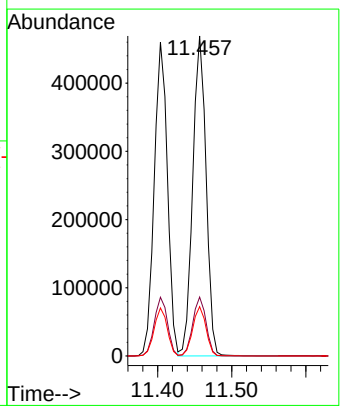
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

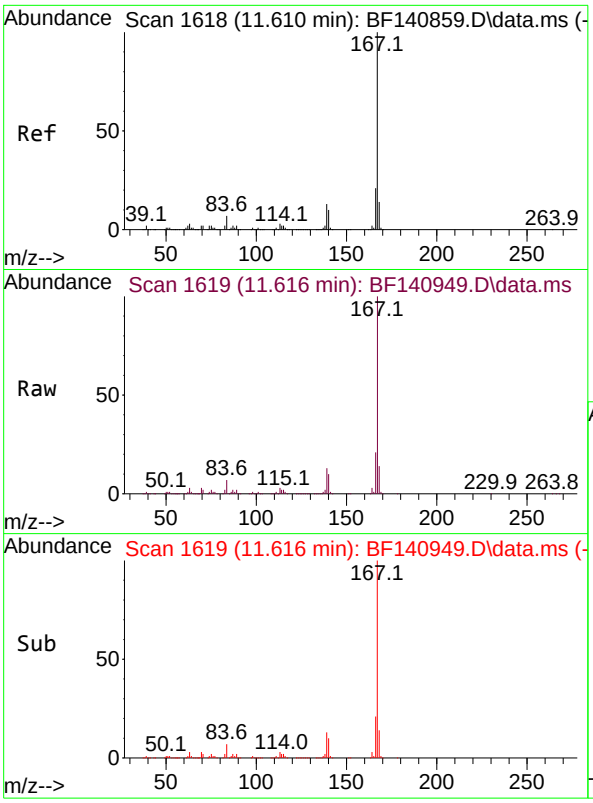


#72
Anthracene
Concen: 61.442 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:178 Resp: 585440

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.4	12.6	18.8

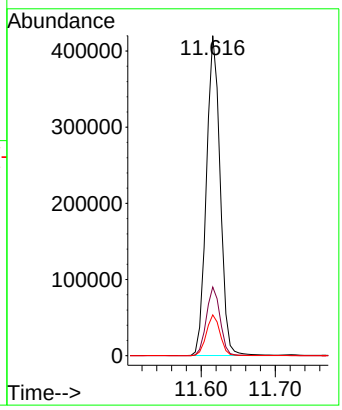




#73
Carbazole
Concen: 57.981 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:167 Resp: 54113

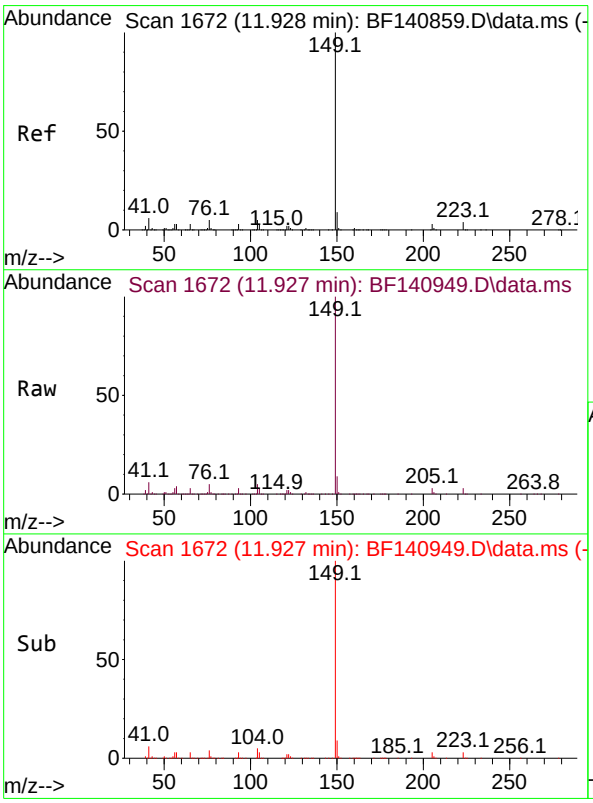
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	12.7	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

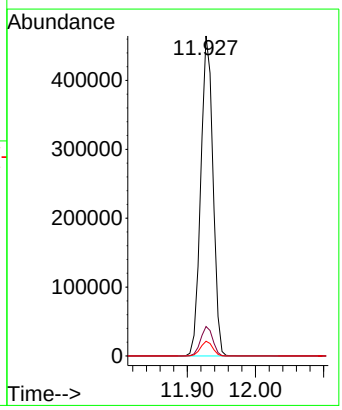
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

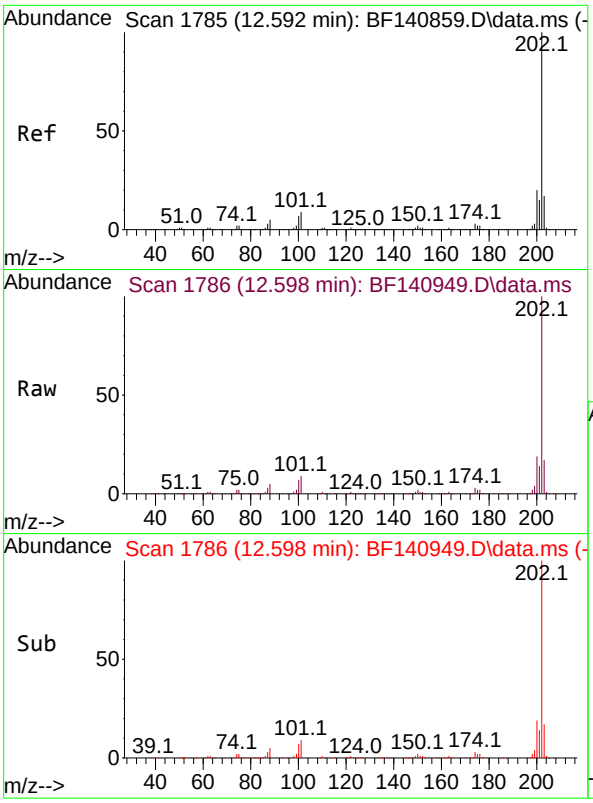


#74
Di-n-butylphthalate
Concen: 52.767 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 577959

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.6	3.8	5.8

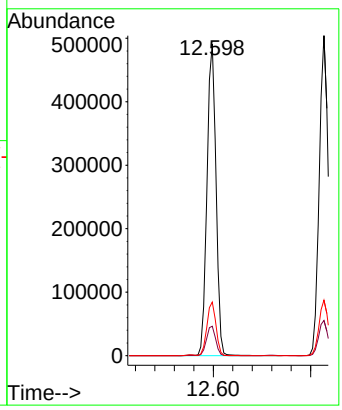




#75
Fluoranthene
Concen: 56.429 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:202 Resp: 62877

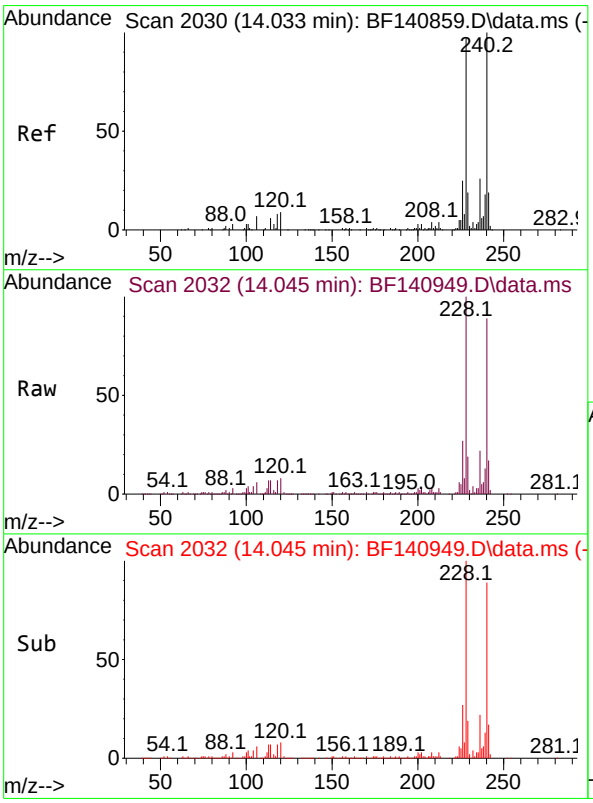
Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.3
203	17.2	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

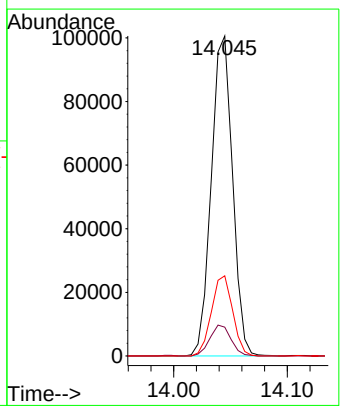
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

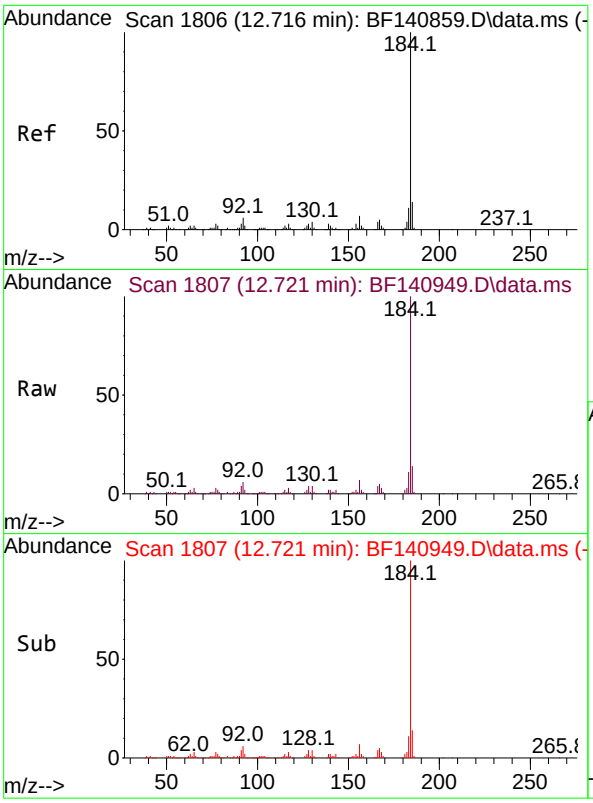


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:240 Resp: 131096

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.6	11.4
236	25.0	20.5	30.7

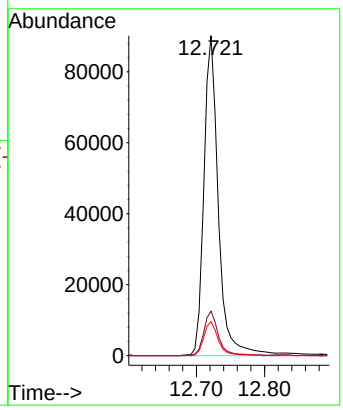




#77
Benzidine
Concen: 49.567 ng
RT: 12.721 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:184 Resp: 13262

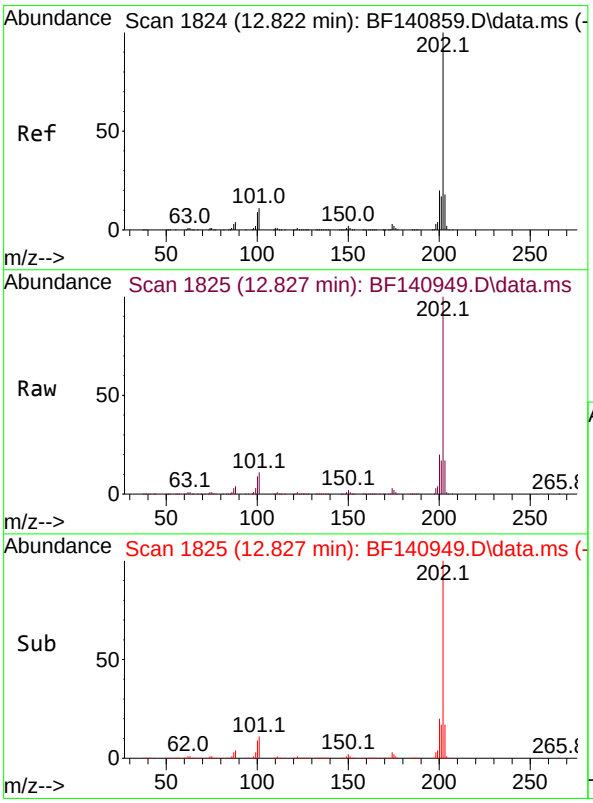
Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.1	16.7
183	10.6	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

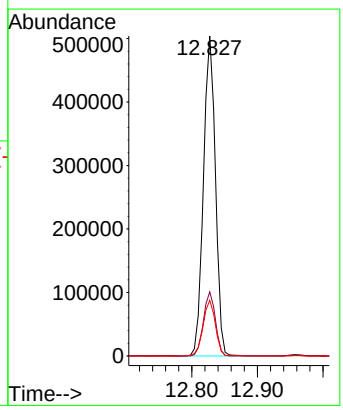
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

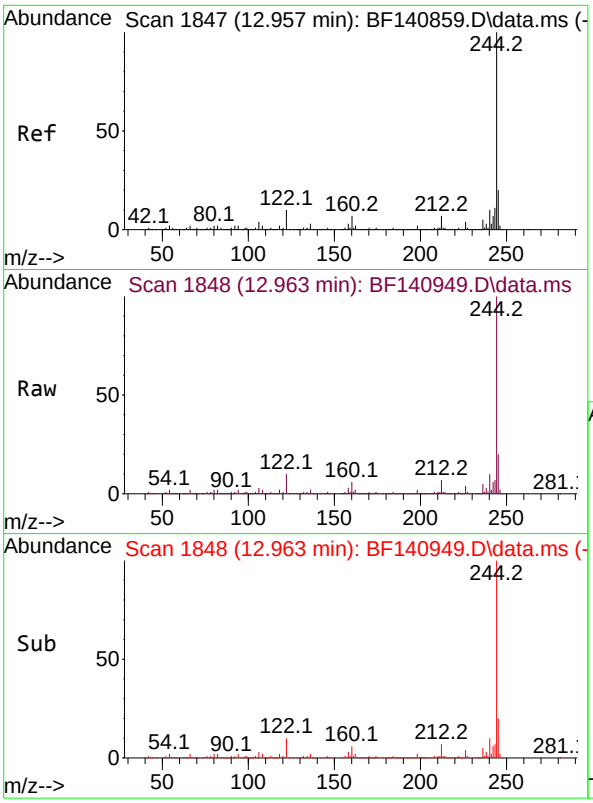


#78
Pyrene
Concen: 55.145 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:202 Resp: 642867

Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.1	24.1
203	17.4	14.2	21.4

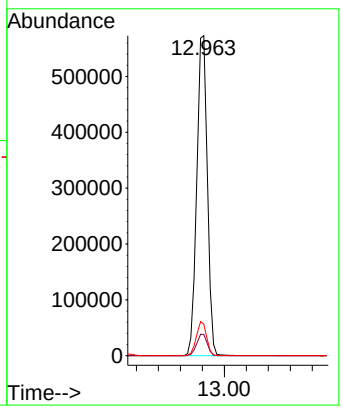




#79
Terphenyl-d14
Concen: 92.274 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:244 Resp: 76713

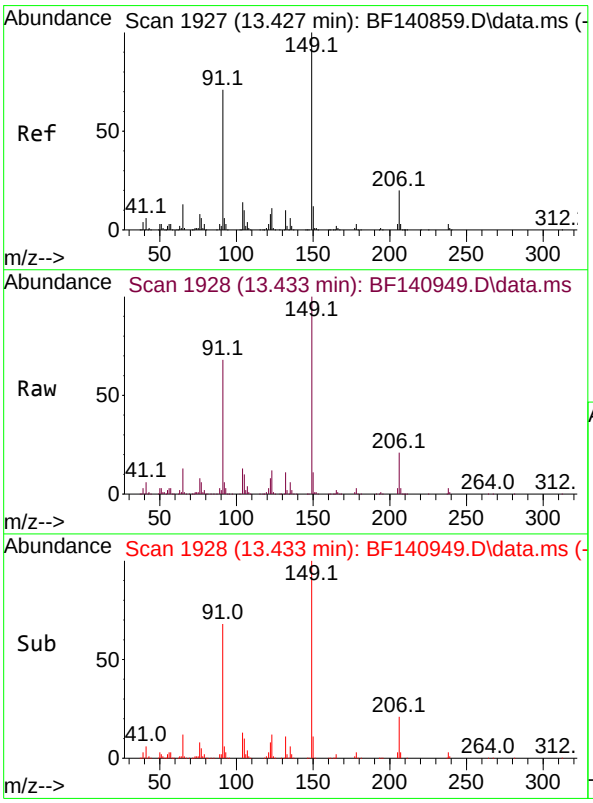
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	9.8	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

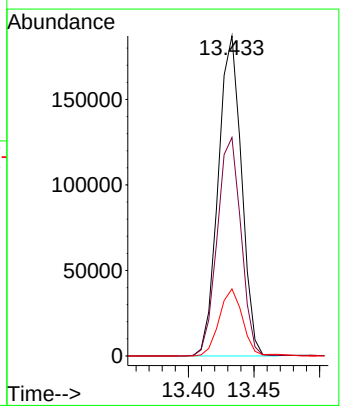
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

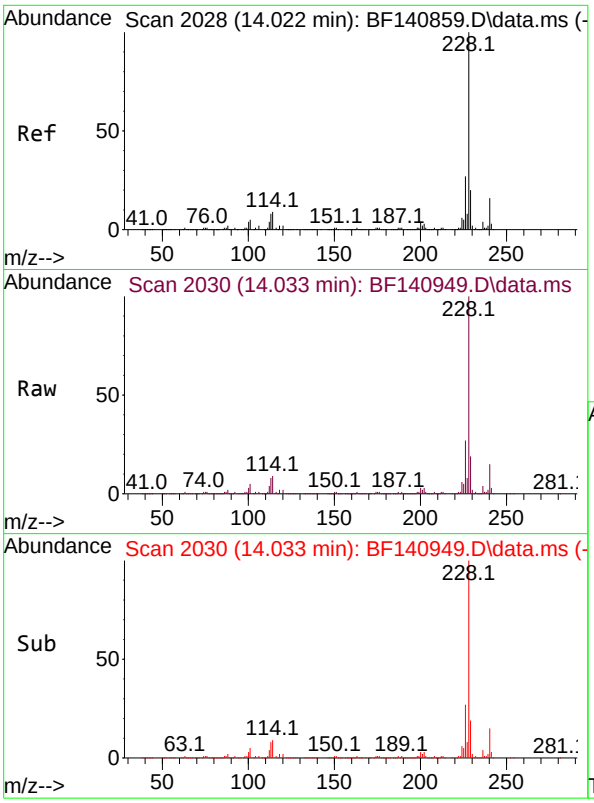


#80
Butylbenzylphthalate
Concen: 53.914 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 231266

Ion	Ratio	Lower	Upper
149	100		
91	68.2	56.7	85.1
206	21.0	16.4	24.6

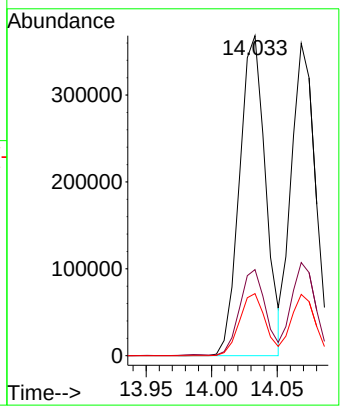




#81
Benzo(a)anthracene
Concen: 54.752 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:228 Resp: 50870

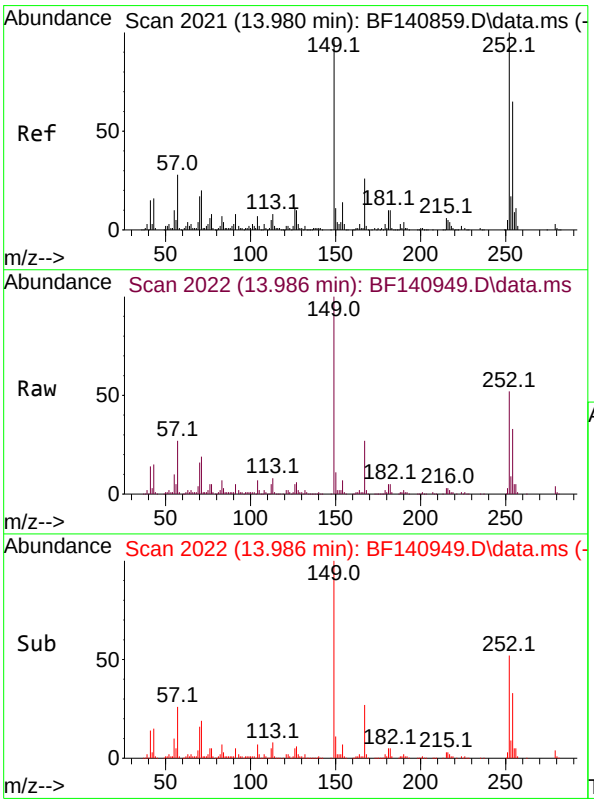
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.4	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

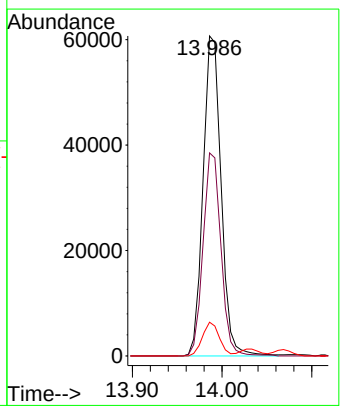
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

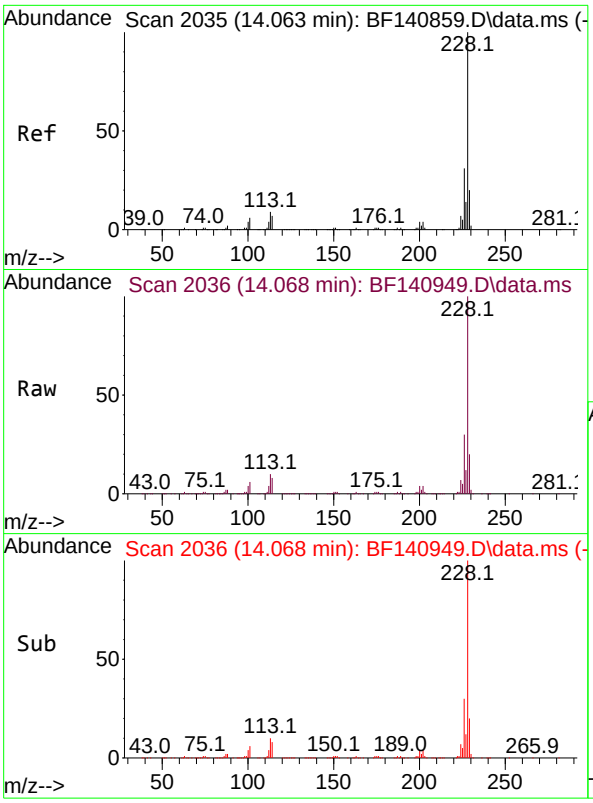


#82
3,3'-Dichlorobenzidine
Concen: 30.219 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:252 Resp: 84711

Ion	Ratio	Lower	Upper
252	100		
254	63.5	52.3	78.5
126	10.5	8.4	12.6

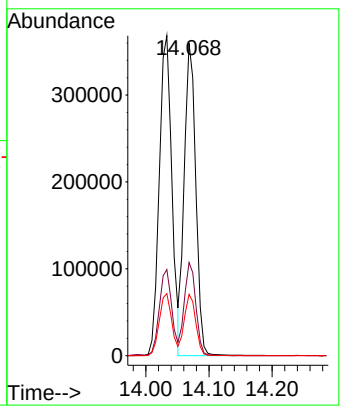




#83
Chrysene
Concen: 54.249 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:228 Resp: 45834

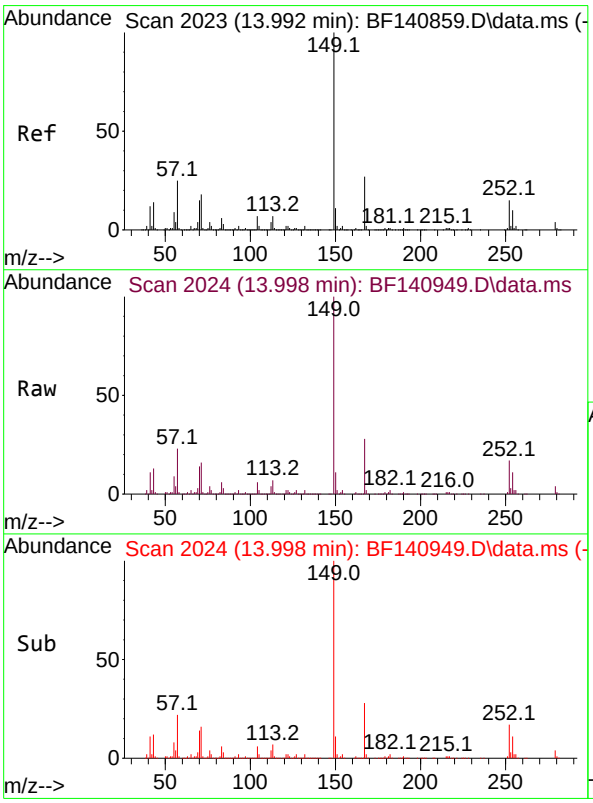
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.1	36.1
229	19.6	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

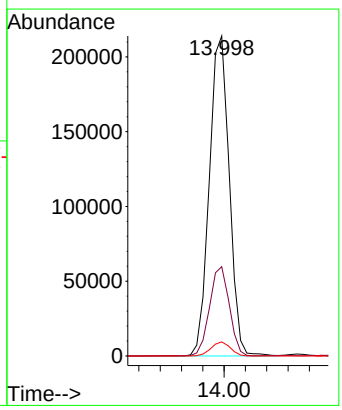
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

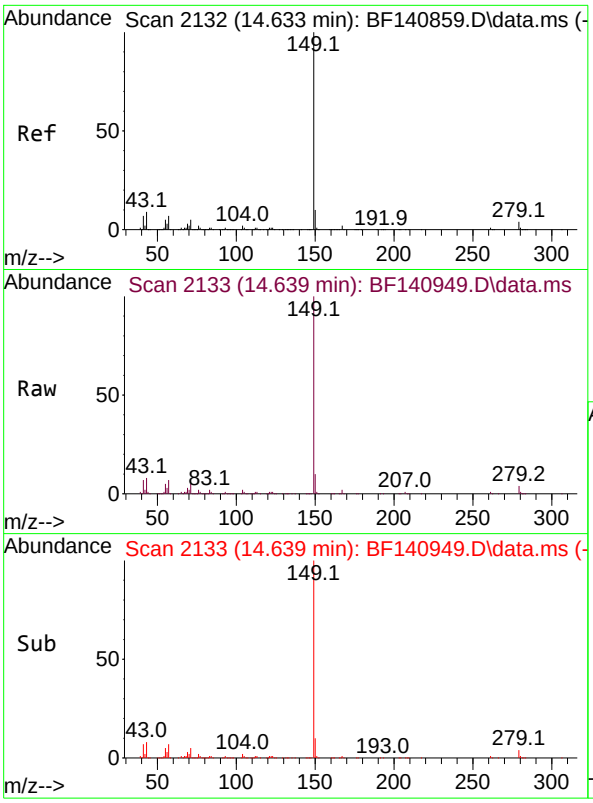


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.188 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 277592

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.8	32.8
279	4.4	3.5	5.3

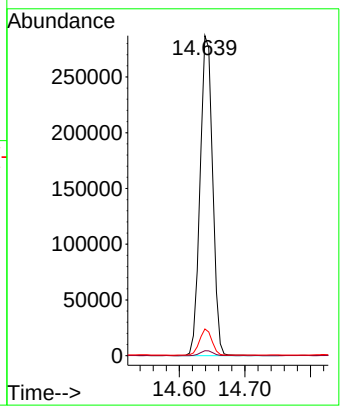




#85
Di-n-octyl phthalate
Concen: 45.836 ng
RT: 14.639 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 38354

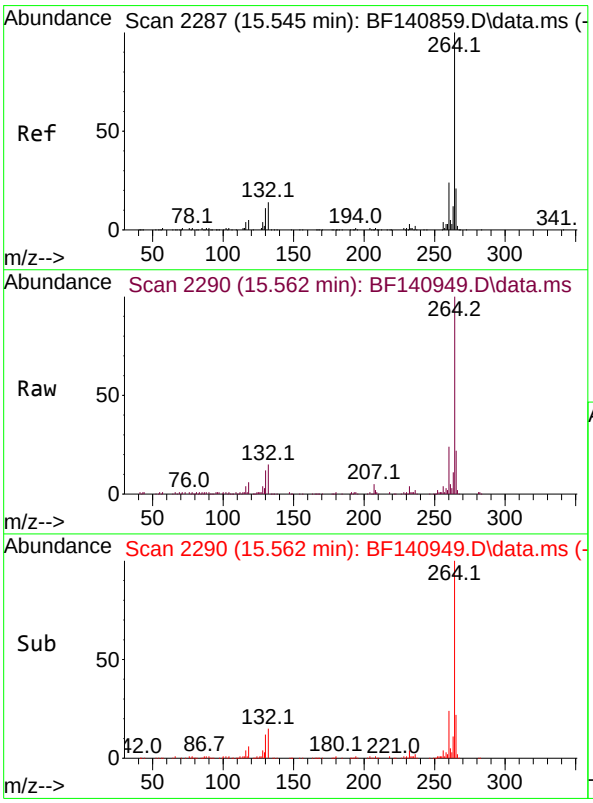
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	7.0	10.6



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations APPROVED

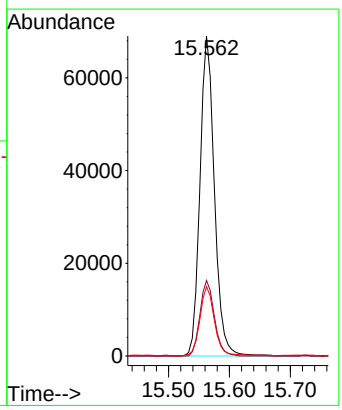
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

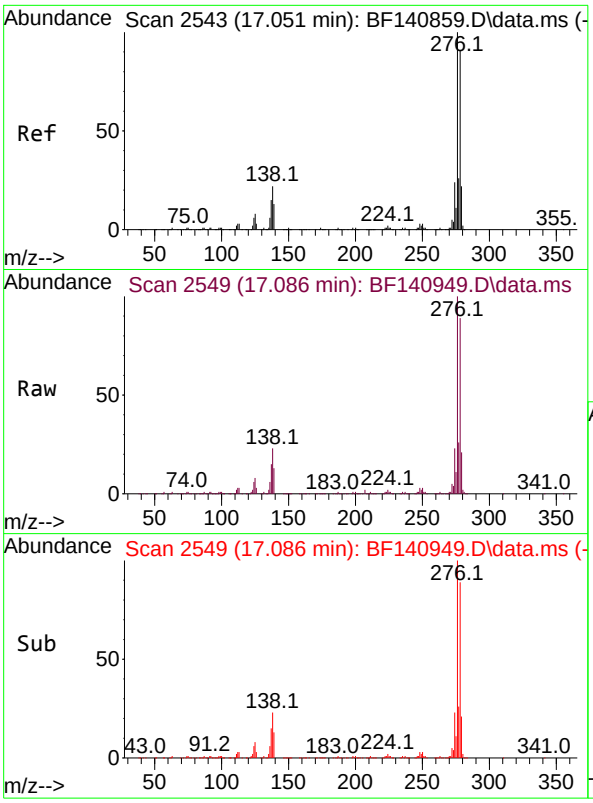


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2290
Delta R.T. 0.017 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:264 Resp: 113765

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	21.6	17.0	25.4

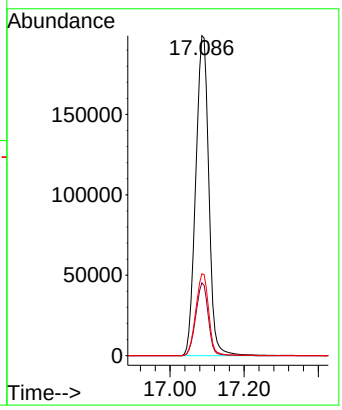




#87
Indeno(1,2,3-cd)pyrene
Concen: 68.540 ng
RT: 17.086 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:276 Resp: 48659

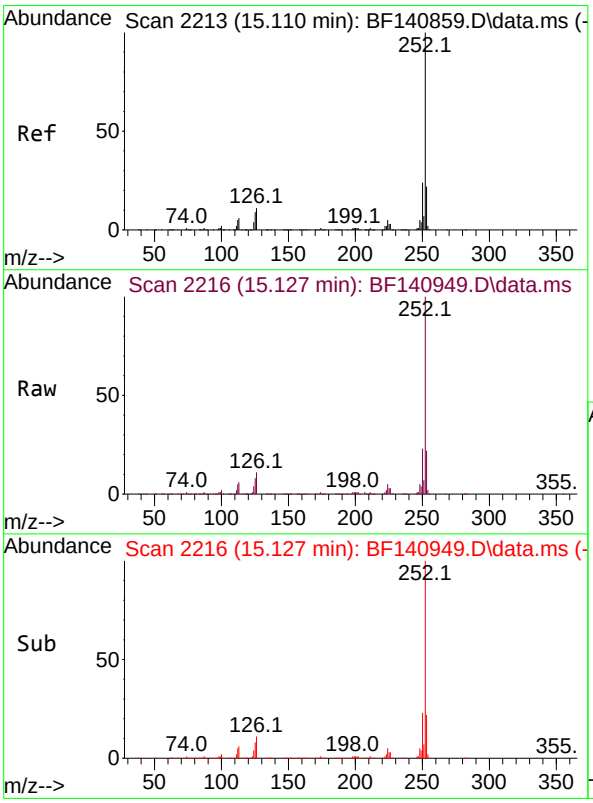
Ion	Ratio	Lower	Upper
276	100		
138	21.8	16.9	25.3
277	25.4	20.2	30.4



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations APPROVED

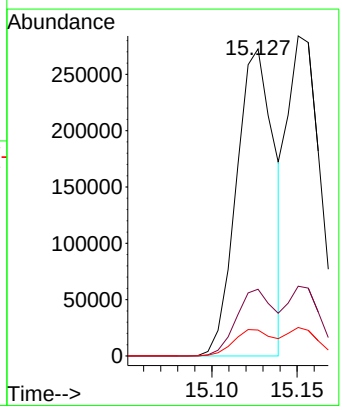
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

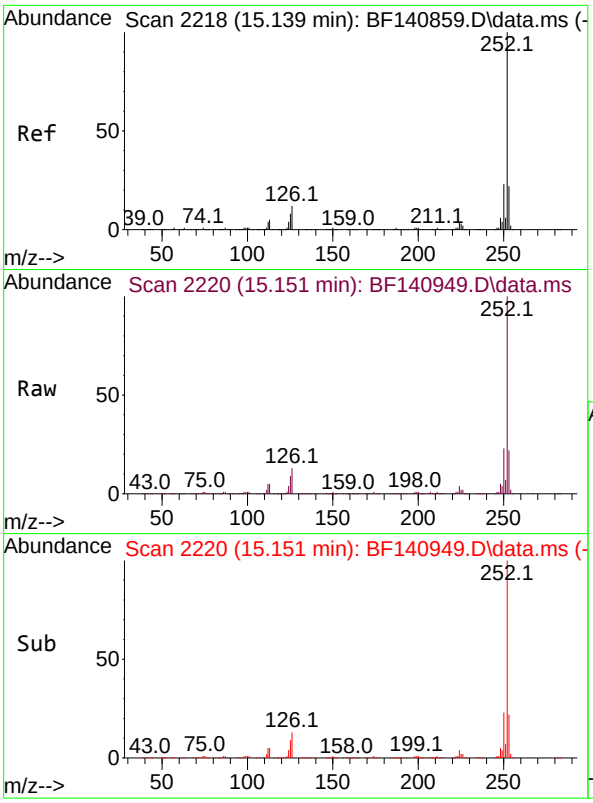


#88
Benzo(b)fluoranthene
Concen: 53.241 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.017 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:252 Resp: 420442

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	8.4	7.0	10.4

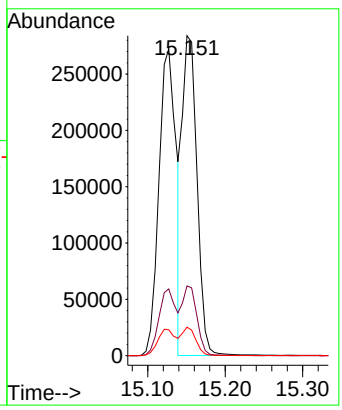




#89
Benzo(k)fluoranthene
Concen: 55.882 ng
RT: 15.151 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

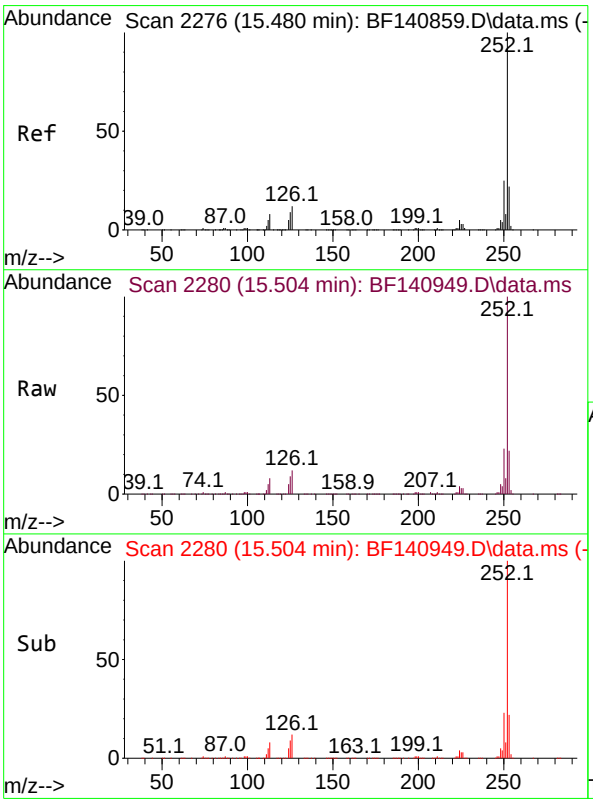
Tgt Ion:252 Resp: 37854

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	8.9	6.8	10.2



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

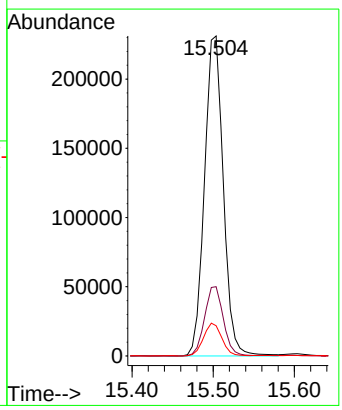
Manual Integrations
APPROVED
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024

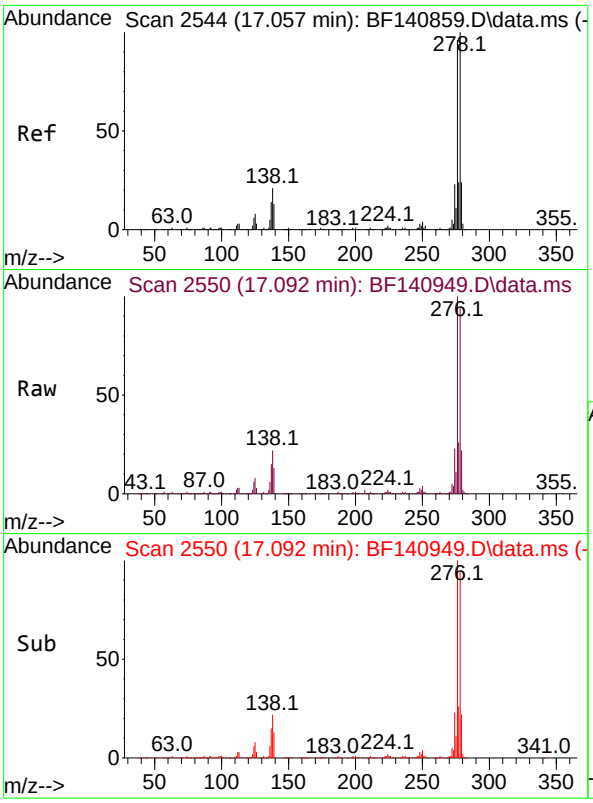


#90
Benzo(a)pyrene
Concen: 60.174 ng
RT: 15.504 min Scan# 2280
Delta R.T. 0.023 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:252 Resp: 372093

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.5	7.5	11.3

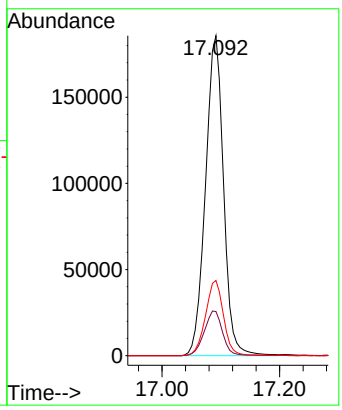




#91
Dibenzo(a,h)anthracene
Concen: 67.298 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:278 Resp: 39581

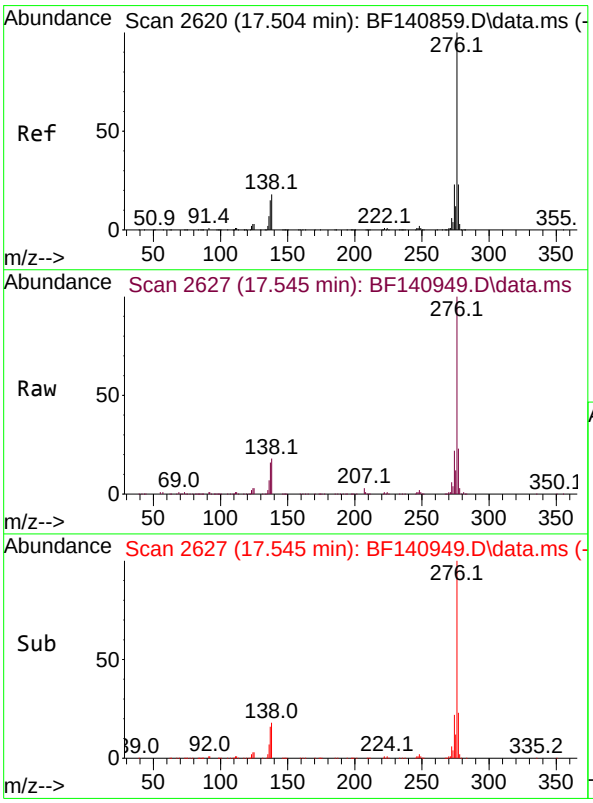
Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	23.5	19.2	28.8



Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Manual Integrations
APPROVED

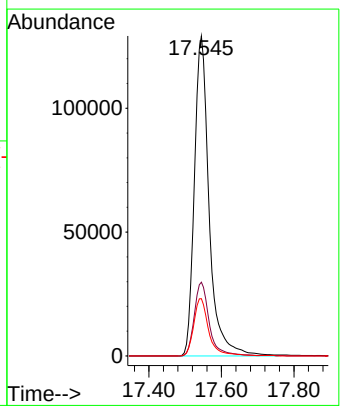
Reviewed By :Jagrut Upadhyay 12/23/2024
Supervised By :mohammad ahmed 12/24/2024



#92
Benzo(g,h,i)perylene
Concen: 61.149 ng
RT: 17.545 min Scan# 2627
Delta R.T. 0.041 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:276 Resp: 366040

Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.7	28.1
138	17.9	14.2	21.2



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

Manual Integration Report

Sequence:	BF121624	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF140857.D	4-Nitrophenol	yogesh	12/18/2024 1:39:47 AM	mohammad	12/18/2024 2:36:39 AM	Peak Integrated by Software
SSTDICC010	BF140857.D	Pentachlorophenol	yogesh	12/18/2024 1:39:47 AM	mohammad	12/18/2024 2:36:39 AM	Peak Integrated by Software
SSTDICC020	BF140858.D	Pentachlorophenol	yogesh	12/18/2024 1:39:48 AM	mohammad	12/18/2024 2:36:39 AM	Peak Integrated by Software
SSTDICC080	BF140862.D	Caprolactam	yogesh	12/18/2024 1:39:50 AM	mohammad	12/18/2024 2:36:39 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF122024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140942.D	4-Nitroaniline	Jagrut	12/23/2024 10:15:03 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
PB165705BS	BF140944.D	4-Nitroaniline	Jagrut	12/23/2024 10:15:06 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
PB165705BS	BF140944.D	Caprolactam	Jagrut	12/23/2024 10:15:06 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
P5306-09MS	BF140948.D	4-Nitroaniline	Jagrut	12/23/2024 10:15:09 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
P5306-09MS	BF140948.D	Caprolactam	Jagrut	12/23/2024 10:15:09 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
P5306-09MSD	BF140949.D	4-Nitroaniline	Jagrut	12/23/2024 10:15:11 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
P5306-09MSD	BF140949.D	Caprolactam	Jagrut	12/23/2024 10:15:11 AM	mohammad	12/24/2024 11:31:08 PM	Peak Integrated by Software
SSTDCCC040	BF140959.D	4-Nitroaniline	Jagrut	12/23/2024 10:15:20 AM	mohammad	12/24/2024 11:31:08 PM	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 # BF121624

Review By	yogesh	Review On	12/18/2024 1:40:10 AM				
Supervise By	mohammad	Supervise On	12/18/2024 2:36:39 AM				
SubDirectory	BF121624	HP Acquire Method	BNA_F		HP Processing Method	Bf121624	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12331,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140854.D	16 Dec 2024 11:21	RC/JU	Ok
2	SSTDICC2.5	BF140855.D	16 Dec 2024 12:13	RC/JU	Ok
3	SSTDICC005	BF140856.D	16 Dec 2024 12:39	RC/JU	Ok
4	SSTDICC010	BF140857.D	16 Dec 2024 13:05	RC/JU	Ok,M
5	SSTDICC020	BF140858.D	16 Dec 2024 14:00	RC/JU	Ok,M
6	SSTDICCC040	BF140859.D	16 Dec 2024 14:26	RC/JU	Ok
7	SSTDICC050	BF140860.D	16 Dec 2024 15:23	RC/JU	Ok
8	SSTDICC060	BF140861.D	16 Dec 2024 15:49	RC/JU	Ok
9	SSTDICC080	BF140862.D	16 Dec 2024 16:15	RC/JU	Ok,M
10	SSTDICV040	BF140863.D	16 Dec 2024 16:41	RC/JU	Ok
11	PB165543BL	BF140864.D	16 Dec 2024 17:08	RC/JU	Ok
12	PB165543BS	BF140865.D	16 Dec 2024 17:34	RC/JU	Ok,M
13	PB165590BL	BF140866.D	16 Dec 2024 18:00	RC/JU	Ok
14	PB165479BS	BF140867.D	16 Dec 2024 18:26	RC/JU	Ok,M
15	PB165479BSD	BF140868.D	16 Dec 2024 18:53	RC/JU	Ok,M
16	PB165479BL	BF140869.D	16 Dec 2024 19:19	RC/JU	Ok
17	P5192-02	BF140870.D	16 Dec 2024 19:45	RC/JU	ReRun

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 # BF122024

Review By	Jagrut	Review On	12/23/2024 10:15:36 AM				
Supervise By	mohammad	Supervise On	12/24/2024 11:31:08 PM				
SubDirectory	BF122024	HP Acquire Method	BNA_F		HP Processing Method	bf121624	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12646,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140941.D	20 Dec 2024 09:47	RC/JU	Ok
2	SSTDCCC040	BF140942.D	20 Dec 2024 11:15	RC/JU	Ok,M
3	PB165705BL	BF140943.D	20 Dec 2024 11:41	RC/JU	Ok
4	PB165705BS	BF140944.D	20 Dec 2024 12:07	RC/JU	Ok,M
5	P5316-01	BF140945.D	20 Dec 2024 12:51	RC/JU	Ok
6	P5306-11	BF140946.D	20 Dec 2024 13:18	RC/JU	Ok
7	P5306-09	BF140947.D	20 Dec 2024 13:44	RC/JU	Ok
8	P5306-09MS	BF140948.D	20 Dec 2024 14:10	RC/JU	Ok,M
9	P5306-09MSD	BF140949.D	20 Dec 2024 14:36	RC/JU	Ok,M
10	P5306-13	BF140950.D	20 Dec 2024 15:02	RC/JU	Ok
11	P5306-15	BF140951.D	20 Dec 2024 15:29	RC/JU	Ok
12	P5306-01	BF140952.D	20 Dec 2024 15:55	RC/JU	Ok
13	P5306-03	BF140953.D	20 Dec 2024 16:21	RC/JU	Ok
14	P5306-05	BF140954.D	20 Dec 2024 16:48	RC/JU	Ok
15	P5306-07	BF140955.D	20 Dec 2024 17:14	RC/JU	Ok
16	P5330-04	BF140956.D	20 Dec 2024 17:40	RC/JU	Ok
17	P5330-04MS	BF140957.D	20 Dec 2024 18:06	RC/JU	Ok,M
18	P5330-04MSD	BF140958.D	20 Dec 2024 18:32	RC/JU	Ok,M
19	SSTDCCC040	BF140959.D	20 Dec 2024 19:24	RC/JU	Ok,M

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 # BF121624

Review By	yogesh	Review On	12/18/2024 1:40:10 AM		
Supervise By	mohammad	Supervise On	12/18/2024 2:36:39 AM		
SubDirectory	BF121624	HP Acquire Method	BNA_F	HP Processing Method	Bf121624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12331,10ul/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	BF140854.D	16 Dec 2024 11:21		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140855.D	16 Dec 2024 12:13		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140856.D	16 Dec 2024 12:39	Compound#32,41,54,56,65,70,77 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF140857.D	16 Dec 2024 13:05		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140858.D	16 Dec 2024 14:00	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF140859.D	16 Dec 2024 14:26	Compound#41 Kept on QR & Compound#54,56 Kept on LR	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF140860.D	16 Dec 2024 15:23		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140861.D	16 Dec 2024 15:49		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140862.D	16 Dec 2024 16:15		RC/JU	Ok,M
10	SSTDICV040	ICVBF121624	BF140863.D	16 Dec 2024 16:41		RC/JU	Ok
11	PB165543BL	PB165543BL	BF140864.D	16 Dec 2024 17:08		RC/JU	Ok
12	PB165543BS	PB165543BS	BF140865.D	16 Dec 2024 17:34		RC/JU	Ok,M
13	PB165590BL	PB165590BL	BF140866.D	16 Dec 2024 18:00		RC/JU	Ok
14	PB165479BS	PB165479BS	BF140867.D	16 Dec 2024 18:26		RC/JU	Ok,M
15	PB165479BSD	PB165479BSD	BF140868.D	16 Dec 2024 18:53		RC/JU	Ok,M
16	PB165479BL	PB165479BL	BF140869.D	16 Dec 2024 19:19		RC/JU	Ok
17	P5192-02	EFF-WASTE WATER	BF140870.D	16 Dec 2024 19:45	Surrogate Fail	RC/JU	ReRun

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 # BF121624

Review By	yogesh	Review On	12/18/2024 1:40:10 AM		
Supervise By	mohammad	Supervise On	12/18/2024 2:36:39 AM		
SubDirectory	BF121624	HP Acquire Method	BNA_F	HP Processing Method	Bf121624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12331,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

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 # BF122024

Review By	Jagrut	Review On	12/23/2024 10:15:36 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:08 PM		
SubDirectory	BF122024	HP Acquire Method	BNA_F	HP Processing Method	bf121624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12646,10ul/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	BF140941.D	20 Dec 2024 09:47		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140942.D	20 Dec 2024 11:15	CCC fail high side for #87,91 and #92	RC/JU	Ok,M
3	PB165705BL	PB165705BL	BF140943.D	20 Dec 2024 11:41		RC/JU	Ok
4	PB165705BS	PB165705BS	BF140944.D	20 Dec 2024 12:07		RC/JU	Ok,M
5	P5316-01	TT-304-IDWSO-202412	BF140945.D	20 Dec 2024 12:51		RC/JU	Ok
6	P5306-11	OU4-VSL-12-121224	BF140946.D	20 Dec 2024 13:18		RC/JU	Ok
7	P5306-09	OU4-VSL-11-121224	BF140947.D	20 Dec 2024 13:44		RC/JU	Ok
8	P5306-09MS	OU4-VSL-11-121224MS	BF140948.D	20 Dec 2024 14:10		RC/JU	Ok,M
9	P5306-09MSD	OU4-VSL-11-121224MS	BF140949.D	20 Dec 2024 14:36		RC/JU	Ok,M
10	P5306-13	OU4-VSL-13-121224	BF140950.D	20 Dec 2024 15:02		RC/JU	Ok
11	P5306-15	OU4-VSL-14-121224	BF140951.D	20 Dec 2024 15:29		RC/JU	Ok
12	P5306-01	OU4-VSL-07-121224	BF140952.D	20 Dec 2024 15:55		RC/JU	Ok
13	P5306-03	OU4-VSL-08-121224	BF140953.D	20 Dec 2024 16:21		RC/JU	Ok
14	P5306-05	OU4-VSL-09-121224	BF140954.D	20 Dec 2024 16:48		RC/JU	Ok
15	P5306-07	OU4-VSL-10-121224	BF140955.D	20 Dec 2024 17:14		RC/JU	Ok
16	P5330-04	TP-5	BF140956.D	20 Dec 2024 17:40		RC/JU	Ok
17	P5330-04MS	TP-5MS	BF140957.D	20 Dec 2024 18:06		RC/JU	Ok,M

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 # BF122024

Review By	Jagrut	Review On	12/23/2024 10:15:36 AM		
Supervise By	mohammad	Supervise On	12/24/2024 11:31:08 PM		
SubDirectory	BF122024	HP Acquire Method	BNA_F	HP Processing Method	bf121624

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12646,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P5330-04MSD	TP-5MSD	BF140958.D	20 Dec 2024 18:32		RC/JU	Ok,M
19	SSTDCCC040	SSTDCCC040EC	BF140959.D	20 Dec 2024 19:24		RC/JU	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:12
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133976

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
P5245-03	72-12016	1	1.15	8.37	9.52	8.99	93.7	
P5299-01	SB-01	2	1.15	8.40	9.55	7.74	78.5	
P5299-02	SB-02	3	1.16	8.70	9.86	7.73	75.5	
P5299-03	SB-01	33	1.13	8.61	9.74	7.05	68.8	
P5299-04	SB-02	4	1.15	8.75	9.9	8.08	79.2	
P5306-01	OU4-VSL-07-121224	5	1.16	8.52	9.68	8.9	90.8	
P5306-03	OU4-VSL-08-121224	6	1.17	8.73	9.9	9.1	90.8	
P5306-05	OU4-VSL-09-121224	7	1.19	8.45	9.64	8.8	90.1	
P5306-07	OU4-VSL-10-121224	8	1.15	8.65	9.8	9.37	95.0	
P5306-09	OU4-VSL-11-121224	9	1.11	8.77	9.88	9.32	93.6	
P5306-11	OU4-VSL-12-121224	10	1.12	8.65	9.77	8.97	90.8	
P5306-13	OU4-VSL-13-121224	11	1.13	8.72	9.85	8.98	90.0	
P5306-15	OU4-VSL-14-121224	12	1.18	8.46	9.64	9.29	95.9	
P5306-17	OU4-VSL-06R-121224	13	1.15	8.80	9.95	9.22	91.7	
P5307-01	1A-1B-1C-ROOF-2	14	1.00	1.00	2.00	2.00	100.0	caluk
P5307-02	2A-2B-2C-ROOF-2	15	1.00	1.00	2.00	2.00	100.0	caluk
P5307-03	3A-3B-3C-1907	16	1.00	1.00	2.00	2.00	100.0	caluk
P5307-04	4A-4B-4C-1907	17	1.00	1.00	2.00	2.00	100.0	caluk
P5307-05	5A-5B-5C-1907	18	1.00	1.00	2.00	2.00	100.0	caluk
P5307-06	6A-6B-6C-1952	19	1.00	1.00	2.00	2.00	100.0	caluk
P5307-07	1907-BLDG-GRAY	20	1.00	1.00	2.00	2.00	100.0	caluk
P5307-08	1952-BLDG	21	1.00	1.00	2.00	2.00	100.0	caluk
P5307-09	9A-9B-9C-1907	22	1.00	1.00	2.00	2.00	100.0	caluk
P5307-10	1907-BLDG-OFF-WHITE	23	1.00	1.00	2.00	2.00	100.0	caluk
P5307-11	11A-11B-11C-1952-BLDG	24	1.00	1.00	2.00	2.00	100.0	caluk
P5307-12	12A-12B-12C-1952	25	1.00	1.00	2.00	2.00	100.0	caluk
P5307-13	13A-13B-13C-1952	26	1.00	1.00	2.00	2.00	100.0	caluk
P5307-14	14A-14B-14C-1907	27	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/18/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 12/17/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:12
Out Date: 12/18/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB133976

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
P5307-15	15A-15B-15C-ROOF-7	28	1.00	1.00	2.00	2.00	100.0	caluk
P5312-01	SOIL-VNJ-222	29	1.15	8.43	9.58	8.55	87.8	
P5312-02	SOIL-VNJ-222	30	1.12	8.66	9.78	9.35	95.0	
P5312-03	CONCRETE-VNJ-222	31	1.00	1.00	2.00	2.00	100.0	CONCRETE sample
P5312-04	CONCRETE-VNJ-222	32	1.00	1.00	2.00	2.00	100.0	CONCRETE sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165705

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	12/18/2024
Matrix :	Solid			**Extraction Start Time :**	08:56
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	12/18/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	14:40
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
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	EP2560
Baked Na2SO4	N/A	EP2573
Sand	N/A	E2865
Methylene Chloride	N/A	E3845
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. P5316-01 Added in batch at 1135

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
12/18/24	RP (Ext Lab)	RC/SVOC
14:45	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165705

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 12/18/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165705BL	SBLK705	SVOCMS Group3	30.02	N/A	ritesh	Evelyn	1			U4-1
PB165705BS	SLCS705	SVOCMS Group3	30.01	N/A	ritesh	Evelyn	1			2
P5299-01	SB-01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	F		3
P5299-02	SB-02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	F		4
P5299-03	SB-01	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	F		5
P5299-04	SB-02	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	F		6
P5306-01	OU4-VSL-07-121224	SVOCMS Group3	30.05	N/A	ritesh	Evelyn	1	E		U5-1
P5306-03	OU4-VSL-08-121224	SVOCMS Group3	30.02	N/A	ritesh	Evelyn	1	E		2
P5306-05	OU4-VSL-09-121224	SVOCMS Group3	30.07	N/A	ritesh	Evelyn	1	E		3
P5306-07	OU4-VSL-10-121224	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		4
P5306-09	OU4-VSL-11-121224	SVOCMS Group3	30.05	N/A	ritesh	Evelyn	1	E		5
P5306-09MS	OU4-VSL-11-121224MS	SVOCMS Group3	30.10	N/A	ritesh	Evelyn	1	E		6
P5306-09MSD	OU4-VSL-11-121224MSD	SVOCMS Group3	30.08	N/A	ritesh	Evelyn	1	E		U6-1
P5306-11	OU4-VSL-12-121224	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		2
P5306-13	OU4-VSL-13-121224	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		3
P5306-15	OU4-VSL-14-121224	SVOCMS Group3	30.02	N/A	ritesh	Evelyn	1	E		4
P5312-01	SOIL-VNJ-222	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		5
P5312-03	CONCRETE-VNJ-222	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E	Concrete	6
P5316-01	TT-304-IDWSO-20241217-1	SVOCMS Group2	30.04	N/A	ritesh	Evelyn	1	E		U7-1

* **Extracts relinquished on the same date as received.**

161705
8:53

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5312 **WorkList ID :** 186421 **Department :** Extraction **Date :** 12-18-2024 08:08:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5306-01	OU4-VSL-07-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-03	OU4-VSL-08-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-05	OU4-VSL-09-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-07	OU4-VSL-10-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-09	OU4-VSL-11-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-11	OU4-VSL-12-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-13	OU4-VSL-13-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5306-15	OU4-VSL-14-121224	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L61	12/12/2024	8270E
P5312-01	SOIL-VNJ-222	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L61	12/17/2024	8270E
P5312-03	CONCRETE-VNJ-222	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L61	12/17/2024	8270E

Date/Time 12/18/24 8:50
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JD CSM

Date/Time 12/18/24 9:20
Raw Sample Received by: JD CSM
Raw Sample Relinquished by: RJ (Ext Lab)

165 of 1395

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5316 **WorkList ID :** 186434 **Department :** Extraction **Date :** 12-18-2024 11:32:50

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5316-01	TT-304-IDWSO-20241217-1	Solid	PCB Group1	Cool 4 deg C	TETR06	L51	12/17/2024	8082A
P5316-01	TT-304-IDWSO-20241217-1	Solid	PESTICIDE Group1	Cool 4 deg C	TETR06	L51	12/17/2024	8081B
P5316-01	TT-304-IDWSO-20241217-1	Solid	SVOCMS Group2	Cool 4 deg C	TETR06	L51	12/17/2024	8270E

813 of 1395

Date/Time 12/18/24
Raw Sample Received by: RJ (Ext lab)
Raw Sample Relinquished by: SM

Date/Time 12/18/24
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ext lab)

P5306-SVOCMS Group3

1605 705
8:56

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5299S **WorkList ID :** 186437 **Department :** Extraction **Date :** 12-18-2024 08:56:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5299-01	SB-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	12/14/2024	8270E
P5299-02	SB-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	12/15/2024	8270E
P5299-03	SB-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	12/15/2024	8270E
P5299-04	SB-02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	L41	12/15/2024	8270E

814 of 1395

Date/Time 12/18/24 8:56
Raw Sample Received by: RJ (Ref lab)
Raw Sample Relinquished by: SM

Date/Time 12/18/24 8:10
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ref lab)

P5306-SVOCMS Group3

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

Prep Standard - Chemical Standard Summary

Order ID : P5306

Test : SVOCMS Group3

Prepbatch ID : PB165705,

Sequence ID/Qc Batch ID: BF121924,BF122024,Bf122024,

Standard ID :
EP2560,EP2573,SP6573,SP6638,SP6672,SP6673,SP6674,SP6675,SP6676,SP6677,SP6678,SP6679,SP6680,SP6681,SP6685,SP6686,

Chemical ID :
10ul/1000ul sample,E2865,E3551,E3768,E3815,E3827,E3828,E3845,S10103,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,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,S12510,S12511,S12512,S12513,S12514,S12515,S12516,S12517,S12646,S12790,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2560	11/14/2024	05/08/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/14/2024

FROM 8000.00000ml of E3827 + 8000.00000ml of E3828 = Final Quantity: 16000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2573	12/16/2024	06/16/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/16/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

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

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

SVOC STANDARD PREPARATION LOG

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

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

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

SVOC STANDARD PREPARATION LOG

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

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

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

SVOC STANDARD PREPARATION LOG

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

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

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

SVOC STANDARD PREPARATION LOG

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

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

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

SVOC STANDARD PREPARATION LOG

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

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

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

SVOC STANDARD PREPARATION LOG

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

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

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

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

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

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

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)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

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	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

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

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	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

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

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

CHEMICAL RECEIPT LOG BOOK

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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	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

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	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 #
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

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

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

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	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

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

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

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	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

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

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

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	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

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

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

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	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

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

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

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	S12469

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

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

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

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	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

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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	06/18/2025	12/18/2024 / anahy	09/20/2024 / anahy	S12646

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

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

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-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

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-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.

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-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.

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-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

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: 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.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Received on 02/07/23 by CG

~~S11097~~ S11096 to S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

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

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.

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.

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-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.

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

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 on 03/18/22 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)

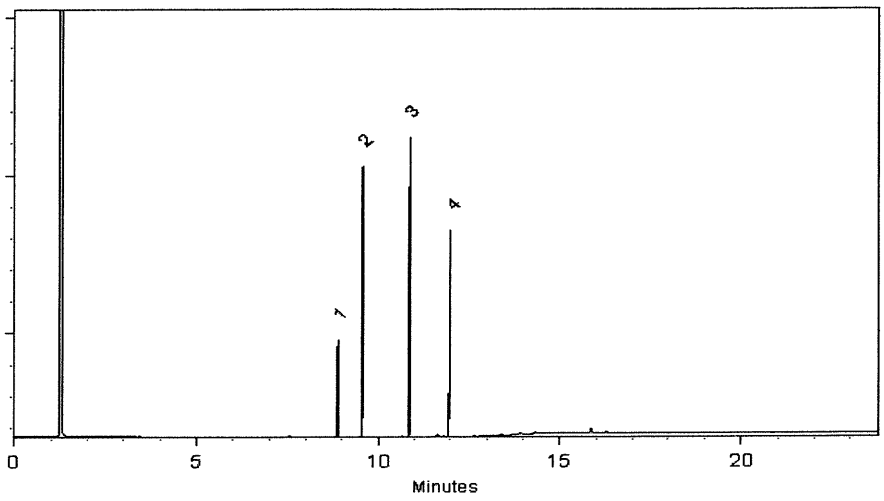
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

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.

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.

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Gravimetric Certificate

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.

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.

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

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 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)

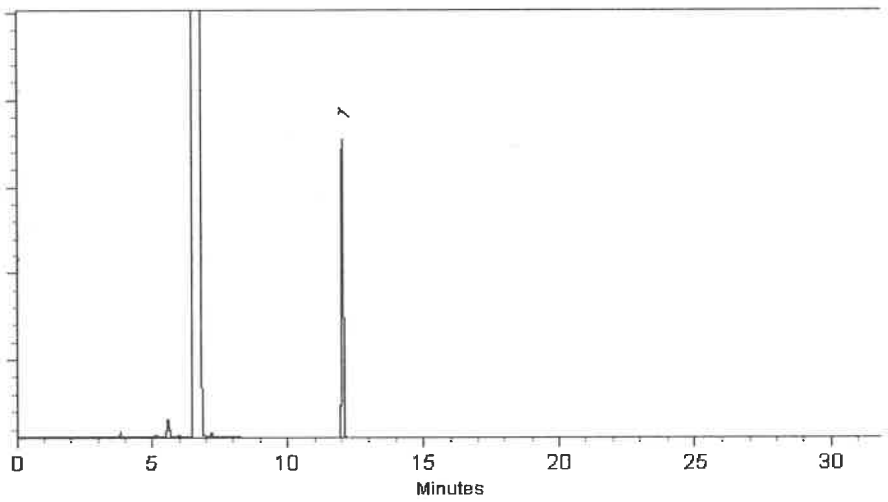
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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

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

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 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)

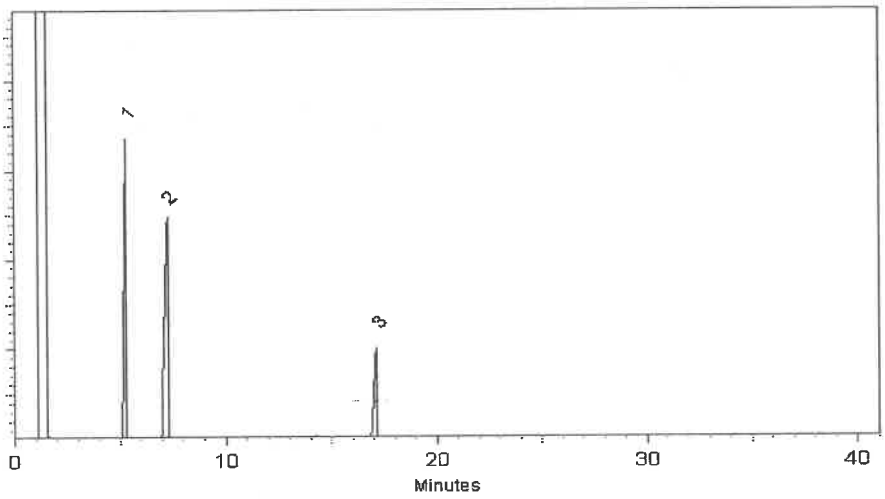
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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

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 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)

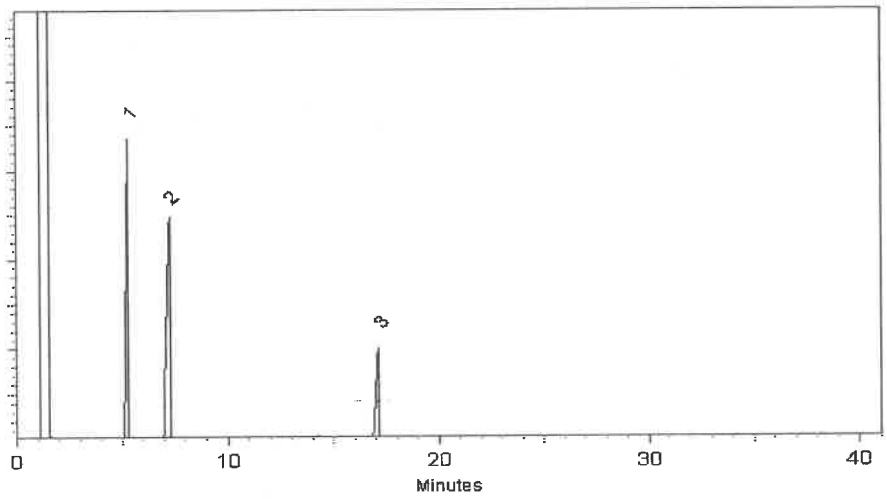
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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

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 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)

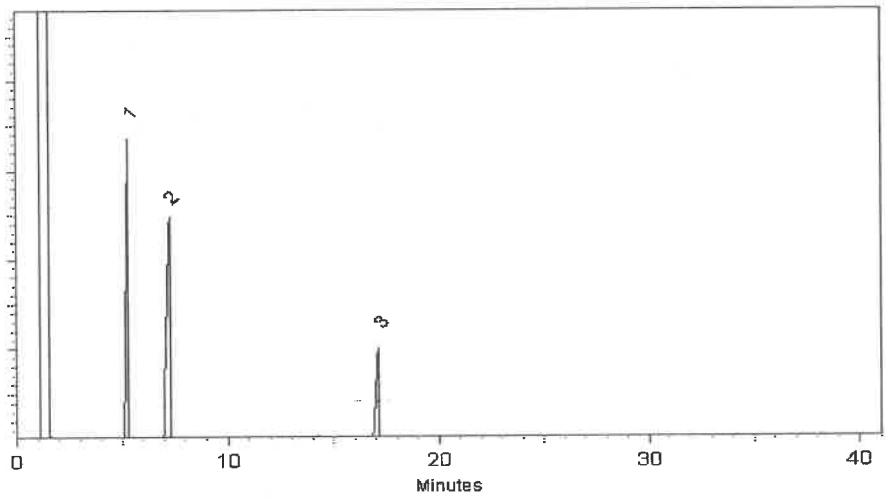
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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

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
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

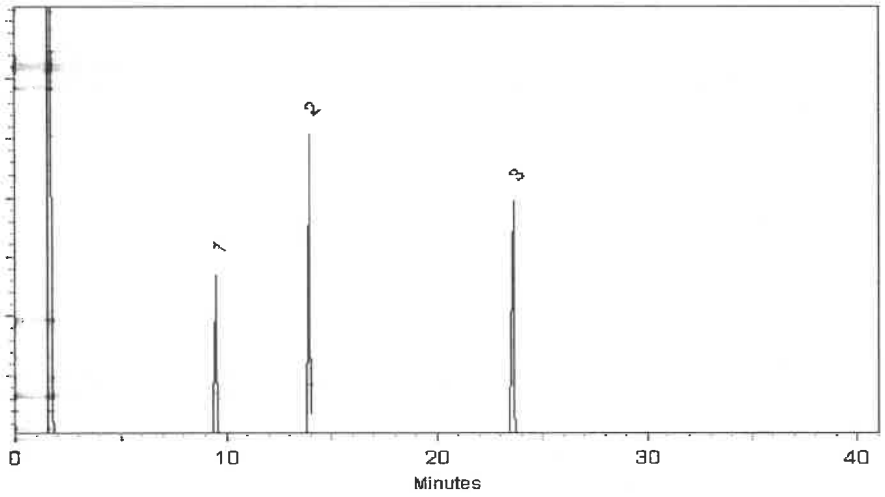
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 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)

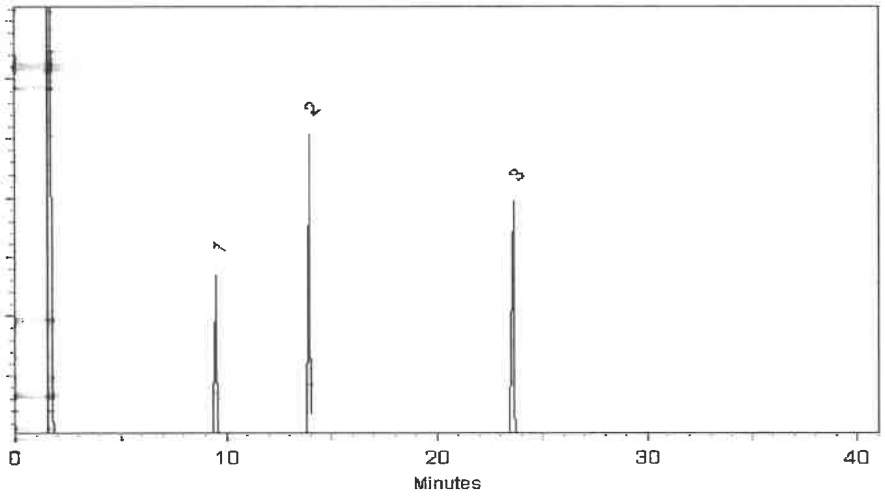
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

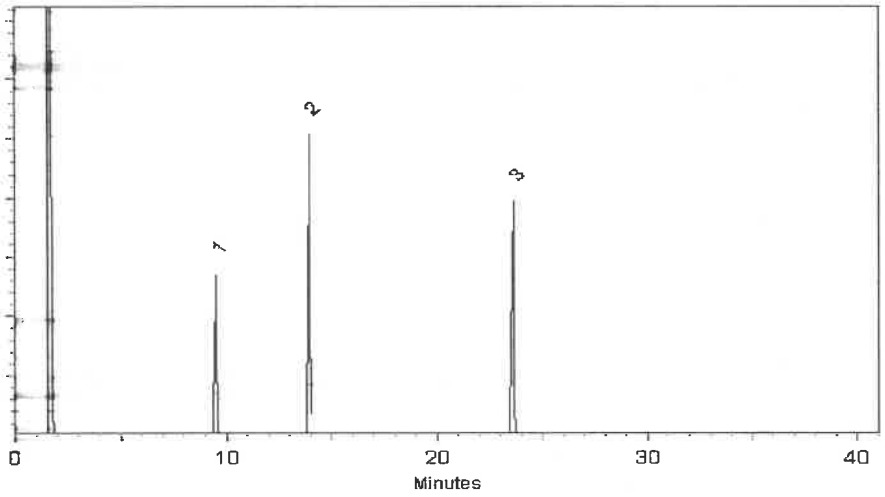
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

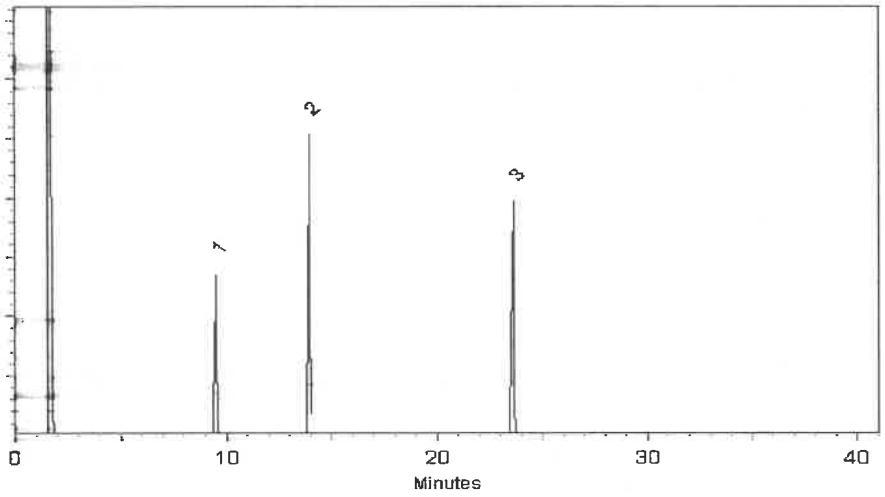
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

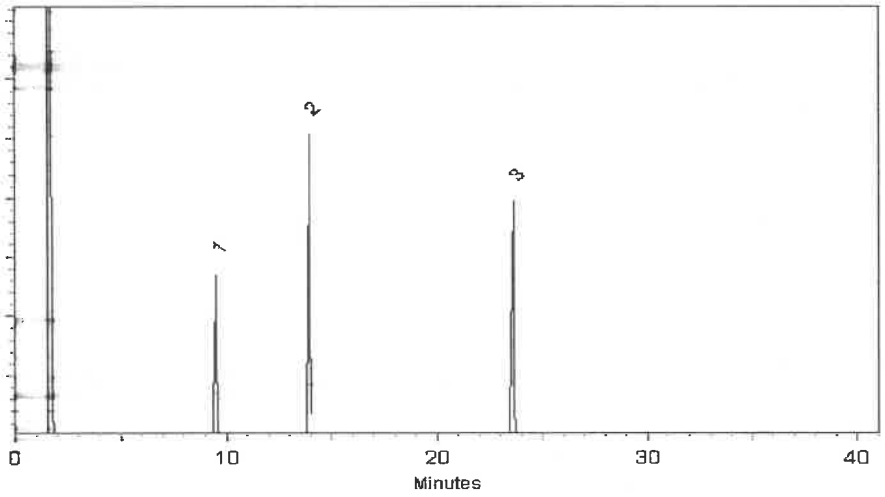
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	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 **Purity** 99%	(Lot 00021384)	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 **Purity** 99%	(Lot PR-30504)	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)

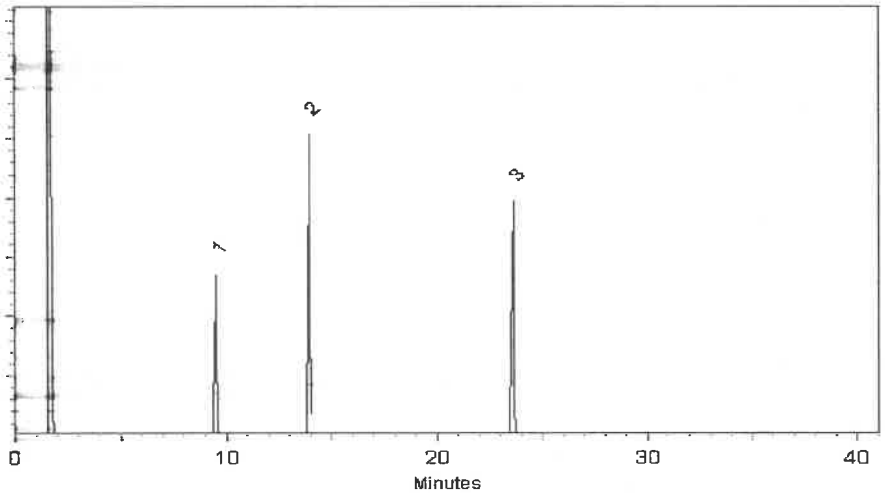
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

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)

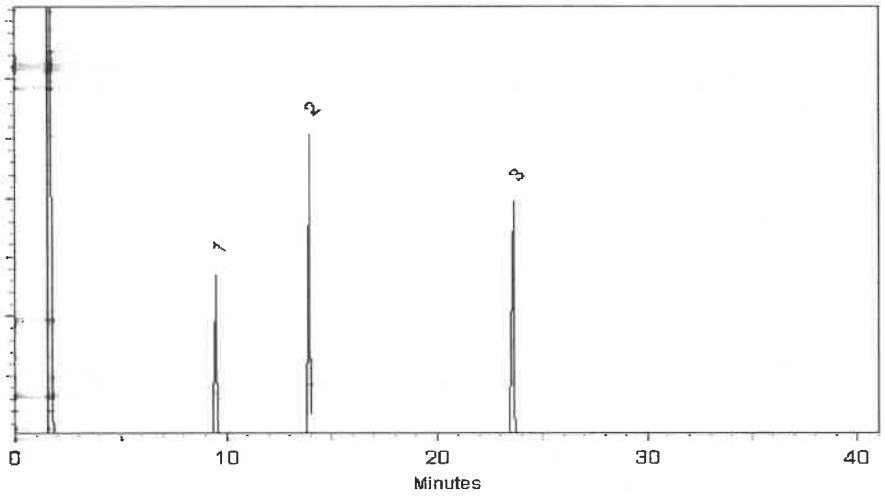
Carrier Gas:
hydrogen-constant pressure 10 psi.

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: 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.
ity, 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

tes:

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

avantor™ | J.T.Baker®

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: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
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	0.1 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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

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

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

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
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	5
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	0.3 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 3845

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

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 } Y.P.
to } 08/11/2023
511498

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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

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.
- 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

www.restek.com

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

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

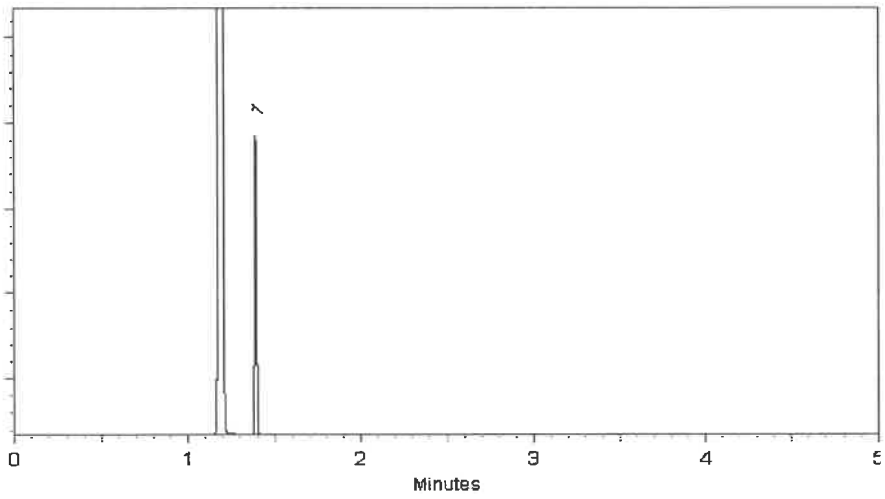
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - 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.

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

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

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

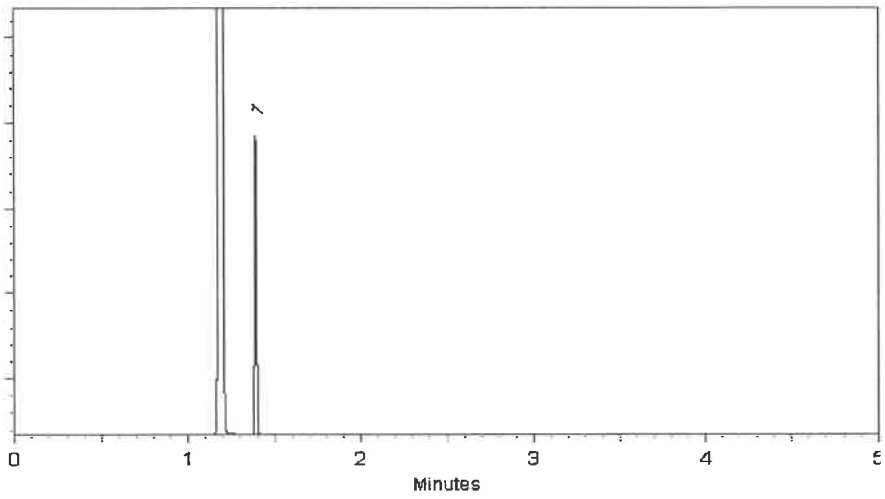
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - 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.

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

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

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

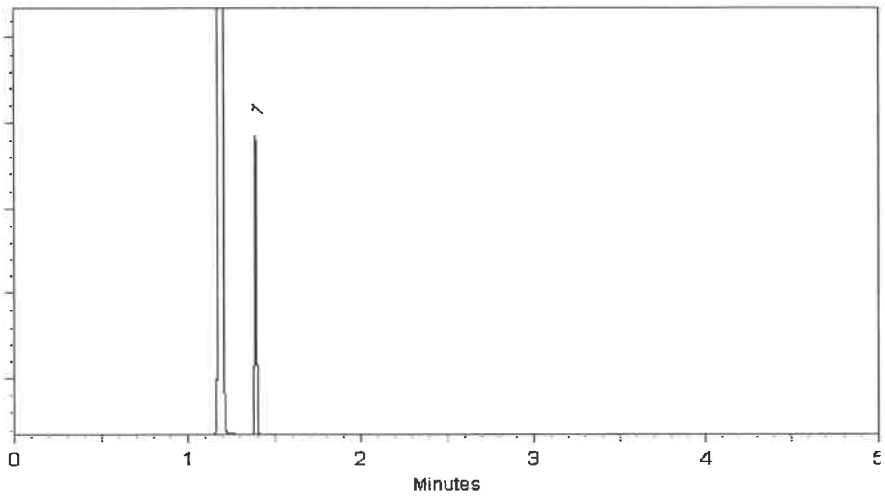
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - 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.

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

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.)

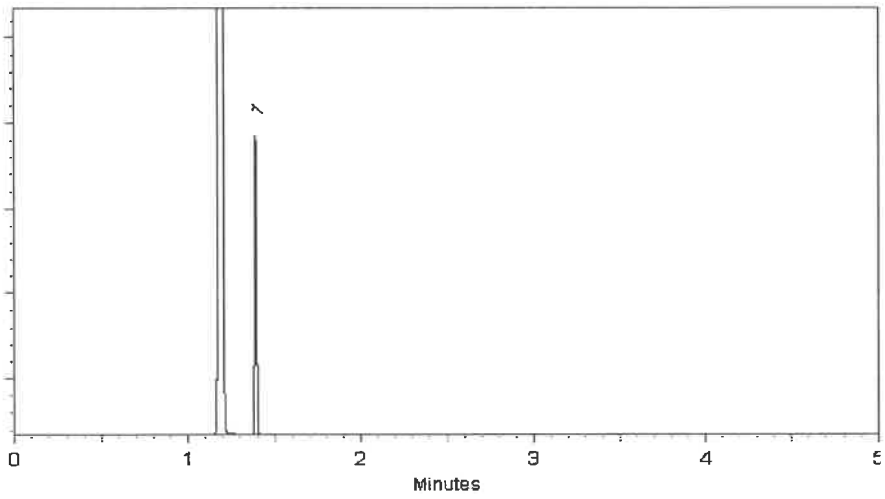
Inj. Temp:
250°C

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.

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

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

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

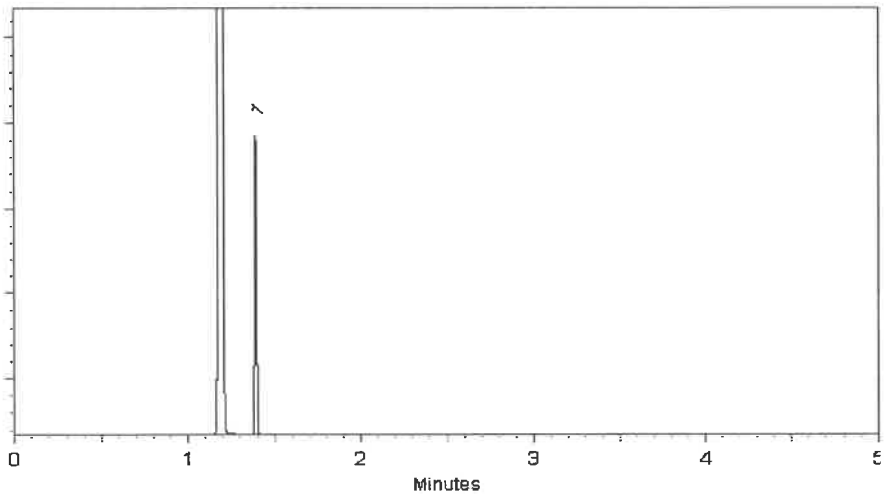
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - 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

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-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.

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-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.

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

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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 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

www.restek.com

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

www.restek.com

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

www.restek.com

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

www.restek.com

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

www.restek.com

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

www.restek.com

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

www.restek.com

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. : 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.)

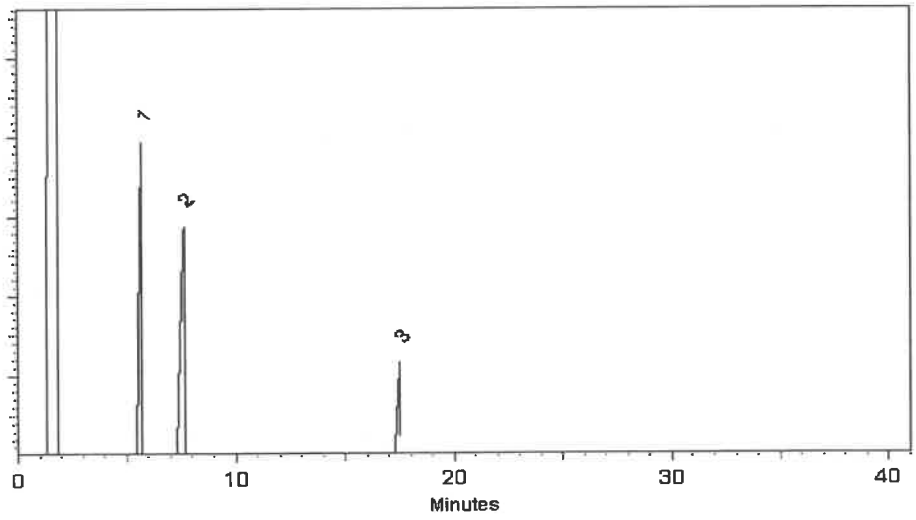
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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.

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

S12187 ↓ S12206 } RC/ 03/18/24

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

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.)

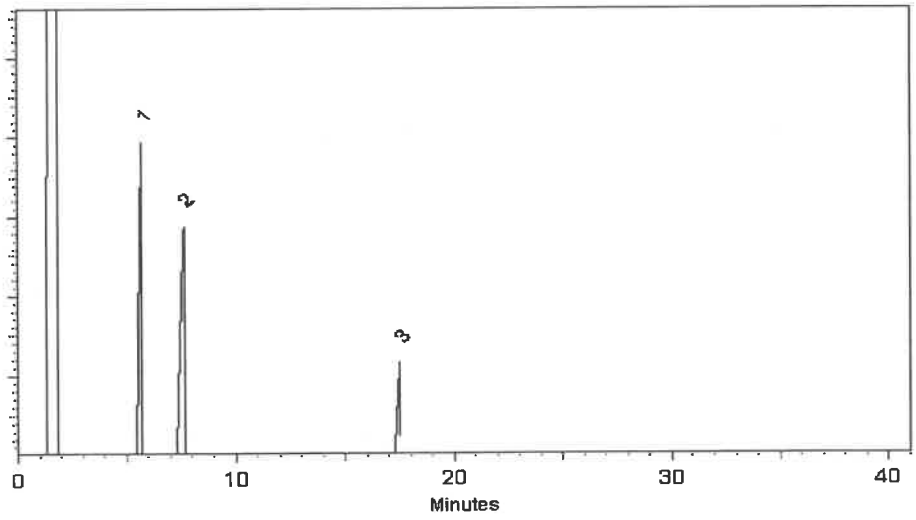
Inj. Temp:
250°C

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

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

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. : 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.)

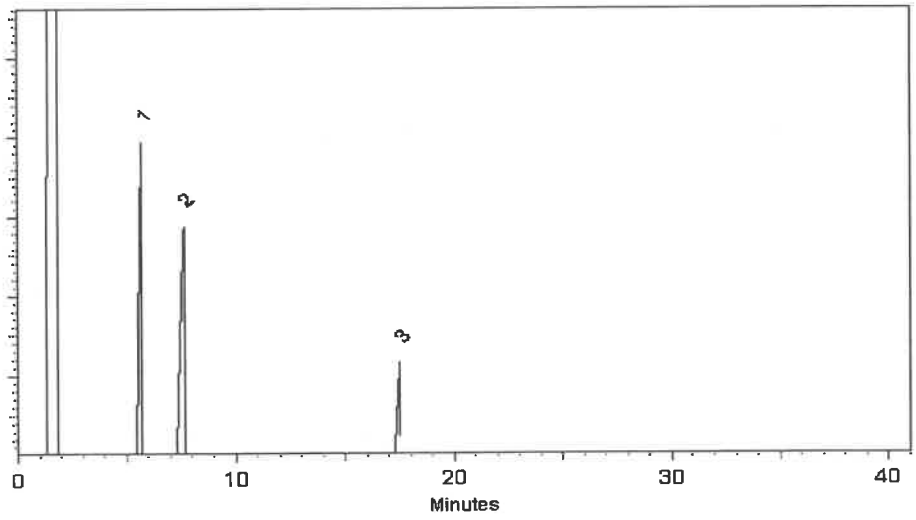
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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.

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.)

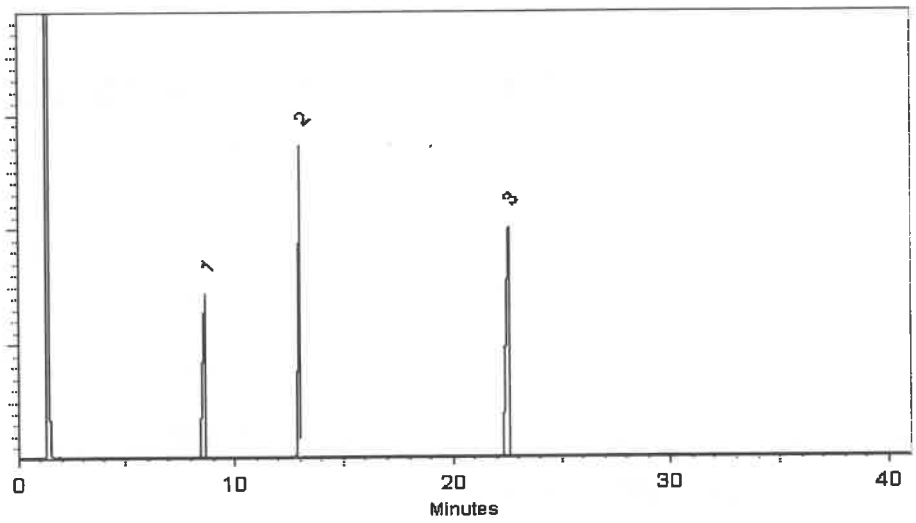
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

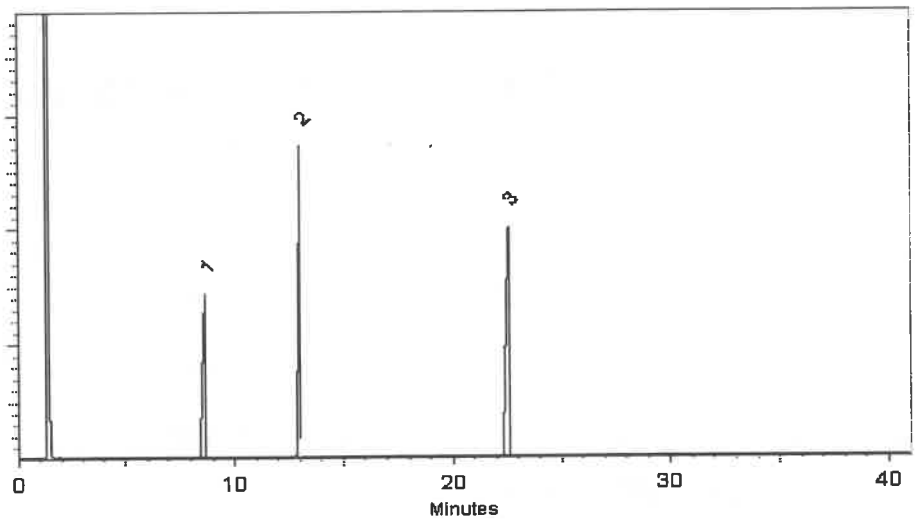
Inj. Temp:
250°C

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.

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 gravimetricllly.

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

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.

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.)

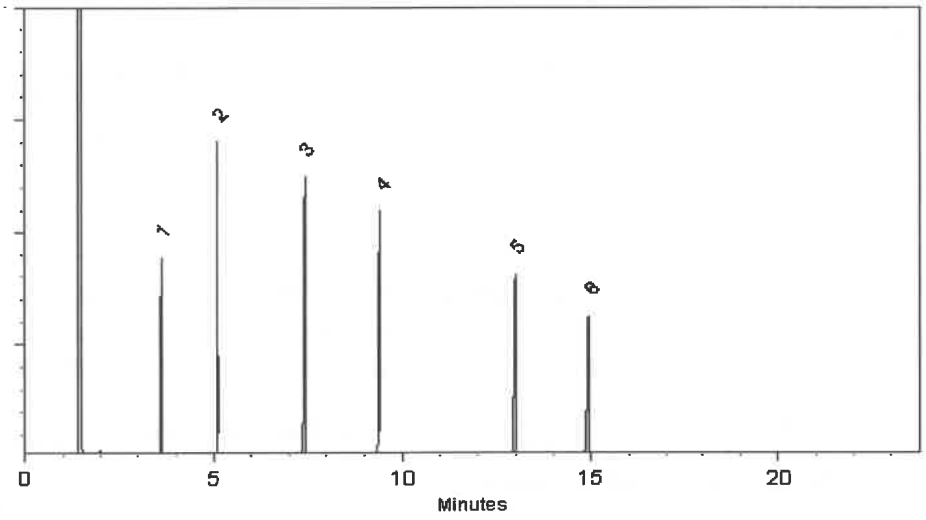
Inj. Temp:
250°C

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

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ 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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

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)
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.
- 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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ 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.
- 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

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ 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.
- 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ 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.
- 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ 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.
- 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.

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
- 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.

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
- 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.

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
- 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.

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
- 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ 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.
- 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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

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.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

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 RCI 05/24/24

New numbers Generated.

S12790 ↓ S12794 RCI 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

P5306

Chemtech

Phone: (908) 789-8900
Fax: (908) 789-8922
284 Sheffield Street, Mountainside, NJ 07092

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page __1__ of __1__

Company Name:	Nobis Group
Address:	55 Technology Drive Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	P. Moran

Requested Turnaround Time
5-Day ☐ 10-Day ☒
PFAS 10-Day (std) ☐ Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other: Equis EDD
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☒
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020	Total and SPLP Vanadium
	004-VSL-07-121224	12/12/24	1000	Grab	S	U	3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-08-121224		1010				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-09-121224		1020				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-10-121224		1030				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-11-121224		1040				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-12-121224		1050				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-13-121224		1100				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-14-121224		1110				3	2	1				X	X	X	X	X	X	X	X	X	
	004-VSL-06R-121224	↓	1115	↓	↓	↓	0	2	0													X

[2] Preservation Code

Total Number Of:
VIALS_____
GLASS_____
PLASTIC_____
BACTERIA_____
ENCORE_____

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) DI Water

Relinquished by: (signature)	Date/Time: 12/13/24 1130	Client Comments: DI water preserved samples frozen on 12/12/24
Received by: (signature)	Date/Time: 12-17-24 9:50	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP,LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

Lab Comments:

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

IR Gun #1 2.4°

1000 of 1395

P5306-SVOCMS Group3

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5306 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 12/17/2024 10:24:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 12/17/2024 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5306-01	OU4-VSL-07-121224	Solid	12/12/2024	10:00					
					VOCMS Group3		8260D		10 Bus. Days
P5306-03	OU4-VSL-08-121224	Solid	12/12/2024	10:10					
					VOCMS Group3		8260D		10 Bus. Days
P5306-05	OU4-VSL-09-121224	Solid	12/12/2024	10:20					
					VOCMS Group3		8260D		10 Bus. Days
P5306-07	OU4-VSL-10-121224	Solid	12/12/2024	10:30					
					VOCMS Group3		8260D		10 Bus. Days
P5306-09	OU4-VSL-11-121224	Solid	12/12/2024	10:40					
					VOCMS Group3		8260D		10 Bus. Days
P5306-11	OU4-VSL-12-121224	Solid	12/12/2024	10:50					
					VOCMS Group3		8260D		10 Bus. Days
P5306-13	OU4-VSL-13-121224	Solid	12/12/2024	11:00					
					VOCMS Group3		8260D		10 Bus. Days
P5306-15	OU4-VSL-14-121224	Solid	12/12/2024	~~11:15~~ 11:10					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P5306 NOBI03	**Order Date :**	12/17/2024 10:24:00 AM	**Project Mgr :**	
Client Name :	Nobis Group	**Project Name :**	Raymark Superfund Site	**Report Type :**	Level 4
Client Contact :	Adam Roy	**Receive DateTime :**	12/17/2024 9:50:00 AM	**EDD Type :**	EQUIS
Invoice Name :	Nobis Group	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Adam Roy			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group3		8260D	10 Bus. Days		

Relinguished By : _____
Date / Time : 12-17-24 1230

Received By : _____
Date / Time : 12.17.24 12:30

Storage Area : **VOA Refridgerator Room**

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140857.D
Acq On : 16 Dec 2024 13:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Dec 16 16:47:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.845	152	76578	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	298630	20.000	ng		0.00
39) Acenaphthene-d10	9.880	164	192062	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	358020	20.000	ng		0.00
76) Chrysene-d12	14.027	240	282501	20.000	ng		0.00
86) Perylene-d12	15.533	264	236486	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	94639	20.344	ng		0.00
7) Phenol-d6	6.492	99	127200	20.645	ng		0.00
23) Nitrobenzene-d5	7.410	82	119665	20.048	ng		0.00
42) 2,4,6-Tribromophenol	10.674	330	45327	19.954	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	270749	19.381	ng		0.00
79) Terphenyl-d14	12.951	244	352398	19.670	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	20526	10.244	ng		95
3) Pyridine	3.428	79	45270	9.756	ng		100
4) n-Nitrosodimethylamine	3.351	42	22689	9.699	ng		99
6) Aniline	6.516	93	55946	10.620	ng	#	80
8) 2-Chlorophenol	6.639	128	52812	10.411	ng		97
9) Benzaldehyde	6.404	77	40257	11.792	ng		97
10) Phenol	6.510	94	64718	10.135	ng		91
11) bis(2-Chloroethyl)ether	6.581	93	47546	9.984	ng		97
12) 1,3-Dichlorobenzene	6.786	146	58952	10.199	ng		98
13) 1,4-Dichlorobenzene	6.863	146	61319	10.451	ng		98
14) 1,2-Dichlorobenzene	7.016	146	57259	10.343	ng		97
15) Benzyl Alcohol	6.998	79	43771	9.936	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.122	45	57243	10.204	ng		94
17) 2-Methylphenol	7.110	107	42307	10.446	ng		97
18) Hexachloroethane	7.351	117	22224	10.174	ng		96
19) n-Nitroso-di-n-propyla...	7.251	70	38459	10.406	ng		99
20) 3+4-Methylphenols	7.269	107	57077	10.628	ng	#	84
22) Acetophenone	7.257	105	75049	10.046	ng		96
24) Nitrobenzene	7.428	77	61294	10.024	ng		100
25) Isophorone	7.669	82	100405	10.039	ng		99
26) 2-Nitrophenol	7.751	139	27623	9.808	ng		97
27) 2,4-Dimethylphenol	7.786	122	32852	9.988	ng		94
28) bis(2-Chloroethoxy)met...	7.875	93	61752	9.886	ng		98
29) 2,4-Dichlorophenol	8.004	162	46274	10.191	ng		98
30) 1,2,4-Trichlorobenzene	8.069	180	52790	10.141	ng		99
31) Naphthalene	8.145	128	168002	10.241	ng		99
32) Benzoic acid	7.898	122	25770	8.261	ng		98
33) 4-Chloroaniline	8.204	127	55948	10.269	ng		98
34) Hexachlorobutadiene	8.257	225	35099	10.022	ng		97
35) Caprolactam	8.557	113	13417	9.925	ng		98
36) 4-Chloro-3-methylphenol	8.692	107	51876	10.150	ng		97
37) 2-Methylnaphthalene	8.839	142	109525	10.093	ng		99
38) 1-Methylnaphthalene	8.939	142	110917	10.335	ng		99
40) 1,2,4,5-Tetrachloroben...	9.004	216	55018	9.320	ng		99
41) Hexachlorocyclopentadiene	8.986	237	8781	8.866	ng		99
43) 2,4,6-Trichlorophenol	9.127	196	32555	9.006	ng		97

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140857.D
Acq On : 16 Dec 2024 13:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Dec 16 16:47:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

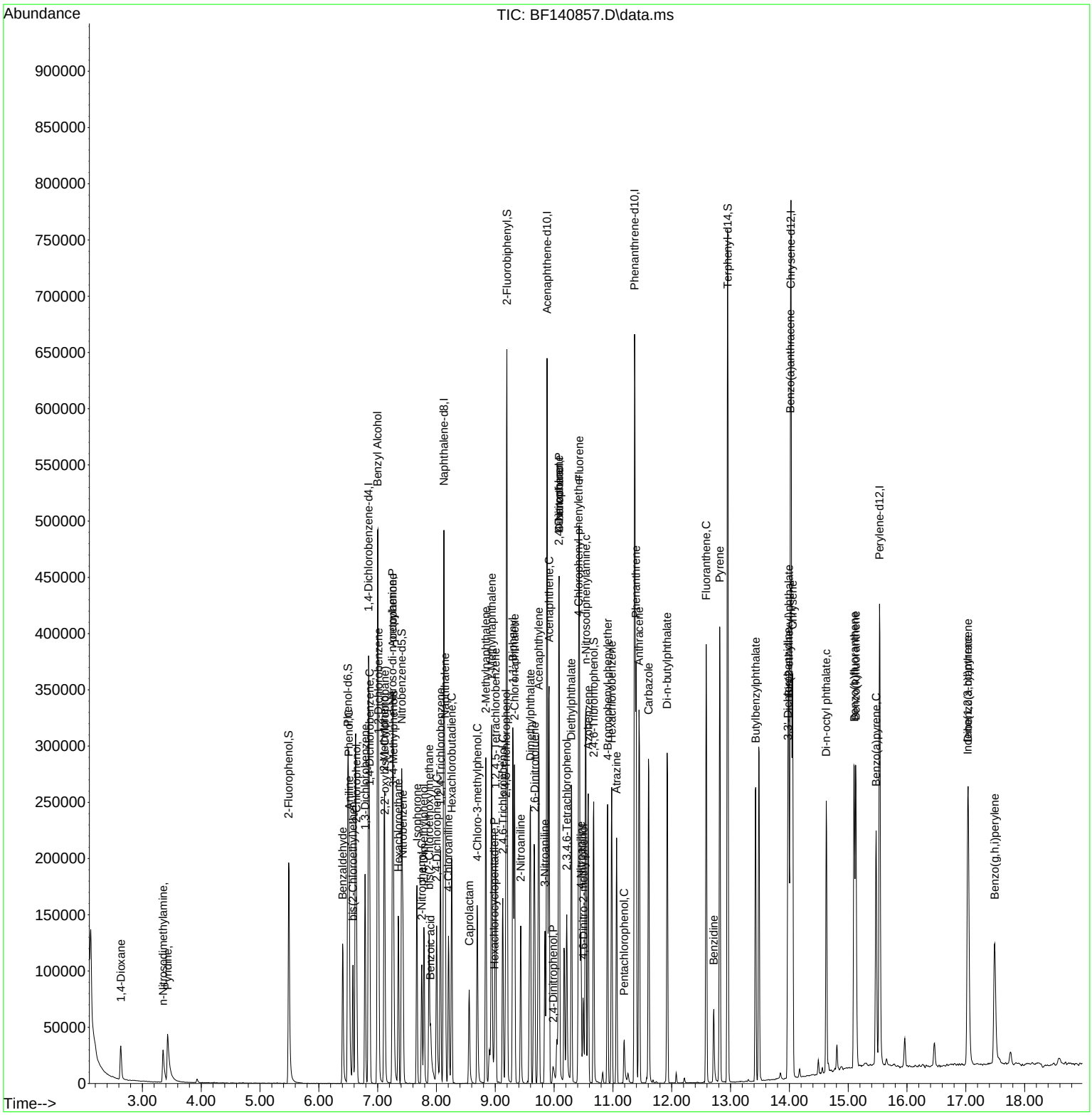
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.180	196	35030	8.817	ng		99
46) 1,1'-Biphenyl	9.298	154	145227	9.509	ng		99
47) 2-Chloronaphthalene	9.327	162	111077	9.507	ng		99
48) 2-Nitroaniline	9.433	65	33225	9.416	ng		98
49) Acenaphthylene	9.739	152	174905	10.187	ng		98
50) Dimethylphthalate	9.598	163	131257	9.693	ng		99
51) 2,6-Dinitrotoluene	9.669	165	30431	9.831	ng		97
52) Acenaphthene	9.916	154	114273	10.419	ng		99
53) 3-Nitroaniline	9.845	138	30367	9.885	ng		100
54) 2,4-Dinitrophenol	9.986	184	8488	11.701	ng		95
55) Dibenzofuran	10.086	168	180108	10.598	ng		99
56) 4-Nitrophenol	10.086	139	82229	51.441	ng	#	10
57) 2,4-Dinitrotoluene	10.080	165	42109	10.339	ng		99
58) Fluorene	10.427	166	146155	10.424	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.216	232	29950	9.251	ng		94
60) Diethylphthalate	10.292	149	142484	10.147	ng		100
61) 4-Chlorophenyl-phenyle...	10.416	204	72010	10.224	ng		99
62) 4-Nitroaniline	10.457	138	31962	9.956	ng		98
63) Azobenzene	10.580	77	135524	10.267	ng		98
65) 4,6-Dinitro-2-methylph...	10.498	198	17756	8.752	ng		97
66) n-Nitrosodiphenylamine	10.539	169	121500	11.038	ng		100
67) 4-Bromophenyl-phenylether	10.910	248	44385	11.082	ng		98
68) Hexachlorobenzene	10.980	284	50135	11.040	ng		99
69) Atrazine	11.063	200	36472	11.864	ng		100
70) Pentachlorophenol	11.192	266	10230	6.158	ng		96
71) Phenanthrene	11.392	178	193504	10.510	ng		99
72) Anthracene	11.445	178	190407	10.502	ng		99
73) Carbazole	11.604	167	182199	10.259	ng		100
74) Di-n-butylphthalate	11.921	149	215903	10.359	ng		99
75) Fluoranthene	12.586	202	231038	10.896	ng		100
77) Benzidine	12.716	184	45074	7.818	ng		99
78) Pyrene	12.815	202	242761	9.663	ng		99
80) Butylbenzylphthalate	13.427	149	86987	9.411	ng		98
81) Benzo(a)anthracene	14.015	228	208127	10.395	ng		99
82) 3,3'-Dichlorobenzidine	13.974	252	60368	9.994	ng		98
83) Chrysene	14.057	228	181387	9.963	ng		99
84) Bis(2-ethylhexyl)phtha...	13.992	149	113963	9.562	ng		100
85) Di-n-octyl phthalate	14.627	149	165198	9.161	ng		99
87) Indeno(1,2,3-cd)pyrene	17.033	276	138792	9.405	ng		99
88) Benzo(b)fluoranthene	15.104	252	173313	10.558	ng		99
89) Benzo(k)fluoranthene	15.127	252	147840	10.499	ng		99
90) Benzo(a)pyrene	15.474	252	128194	9.973	ng		99
91) Dibenzo(a,h)anthracene	17.039	278	116533	9.532	ng		99
92) Benzo(g,h,i)perylene	17.492	276	114976	9.240	ng		99

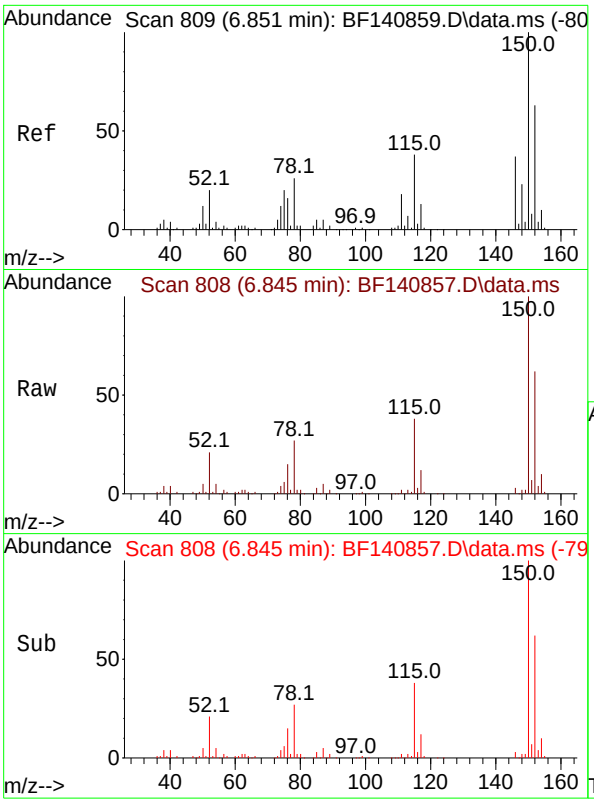
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140857.D
Acq On : 16 Dec 2024 13:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Dec 16 16:47:38 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



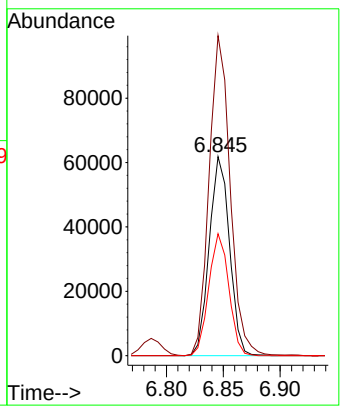


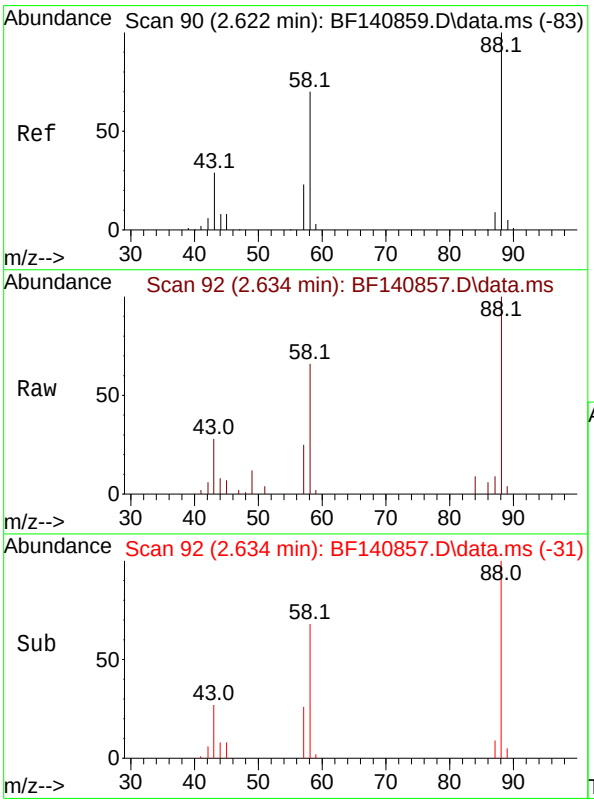
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 76578

Ion	Ratio	Lower	Upper
152	100		
150	160.8	127.9	191.9
115	61.3	48.0	72.0

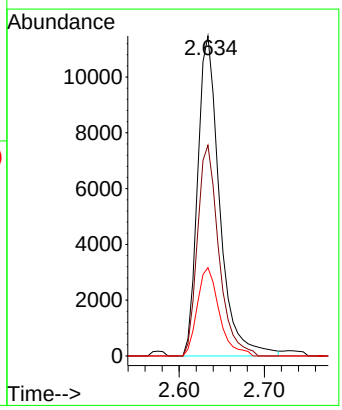


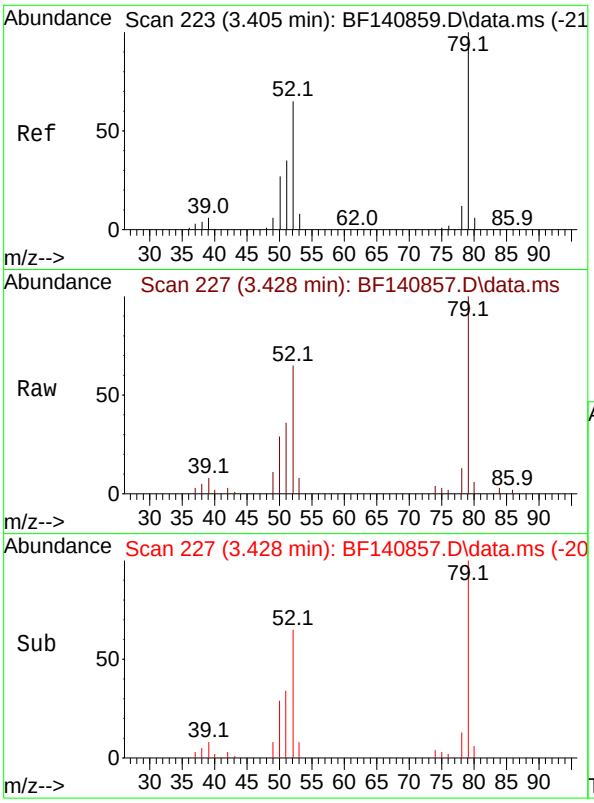


#2
1,4-Dioxane
Concen: 10.244 ng
RT: 2.634 min Scan# 92
Delta R.T. 0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 88 Resp: 20526

Ion	Ratio	Lower	Upper
88	100		
58	64.0	55.8	83.8
43	27.6	22.7	34.1



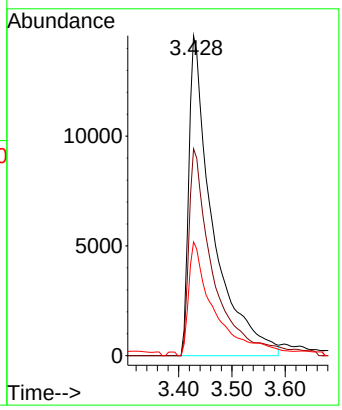


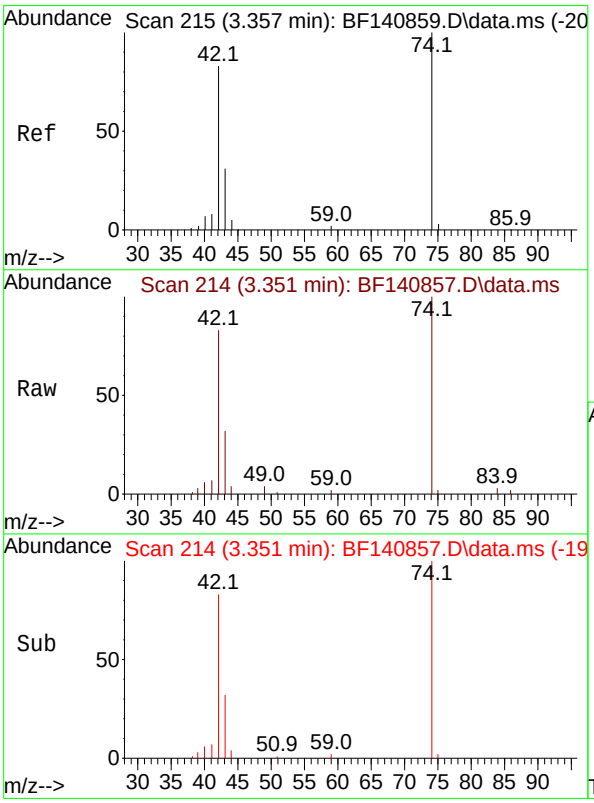
#3
Pyridine
Concen: 9.756 ng
RT: 3.428 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 45270

Ion	Ratio	Lower	Upper
79	100		
52	64.7	51.7	77.5
51	35.6	28.2	42.4

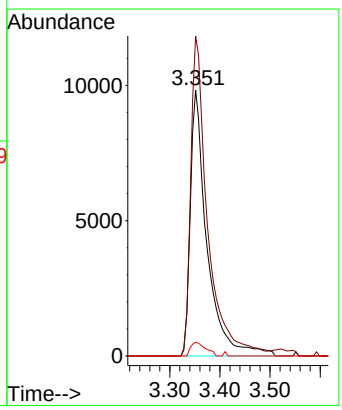


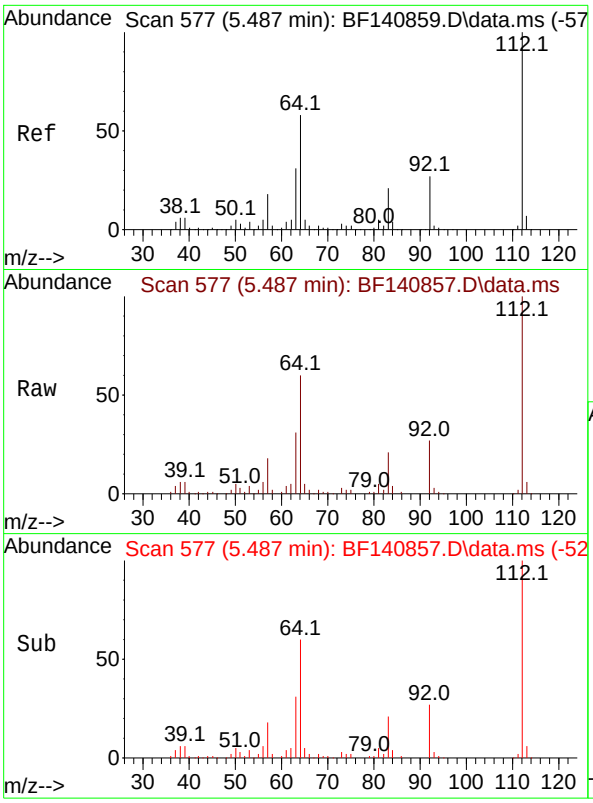


#4
n-Nitrosodimethylamine
Concen: 9.699 ng
RT: 3.351 min Scan# 214
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 42 Resp: 22689

Ion	Ratio	Lower	Upper
42	100		
74	120.4	96.9	145.3
44	5.2	4.4	6.6



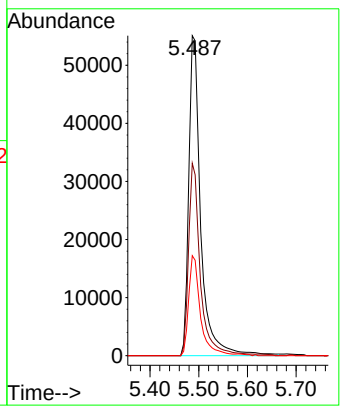


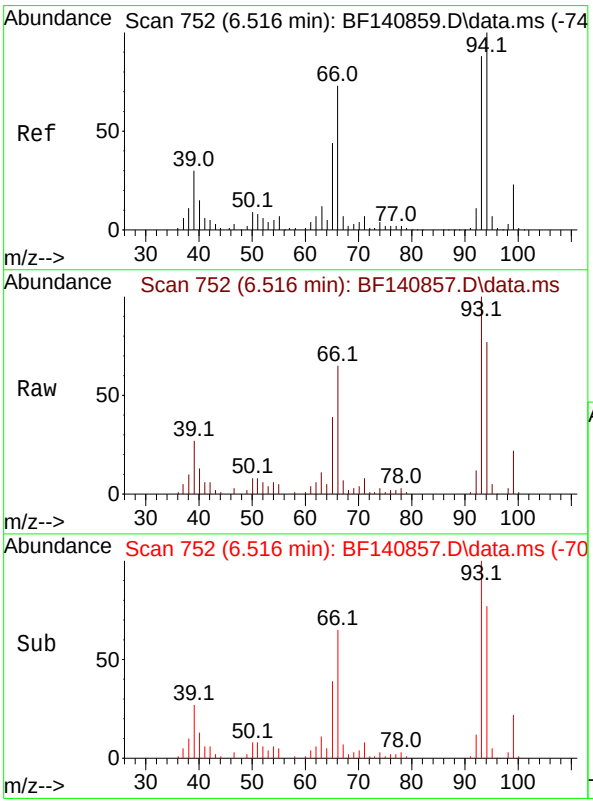
#5
2-Fluorophenol
Concen: 20.344 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 94639

Ion	Ratio	Lower	Upper
112	100		
64	60.1	46.1	69.1
63	31.3	24.9	37.3

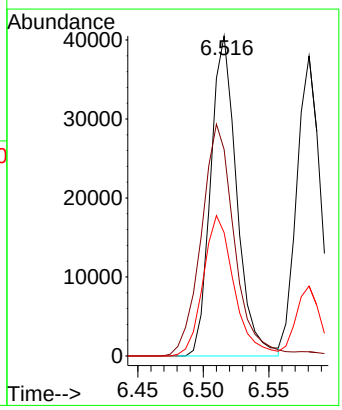


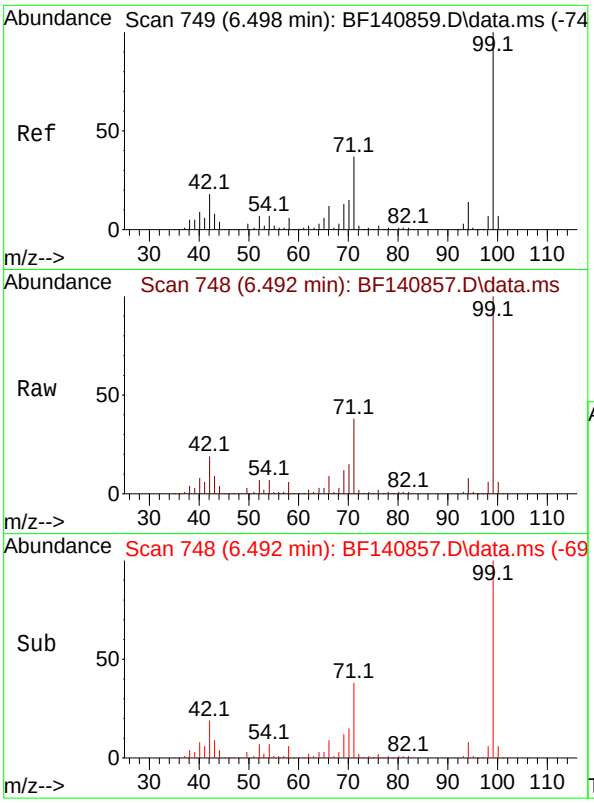


#6
Aniline
Concen: 10.620 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 93 Resp: 55946

Ion	Ratio	Lower	Upper
93	100		
66	64.5	67.0	100.4#
65	38.5	40.4	60.6#



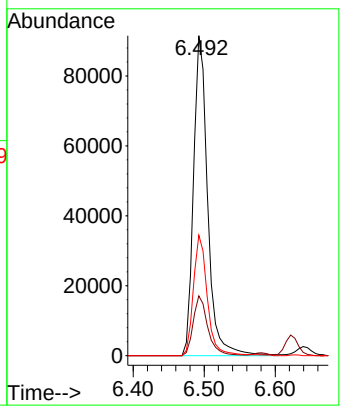


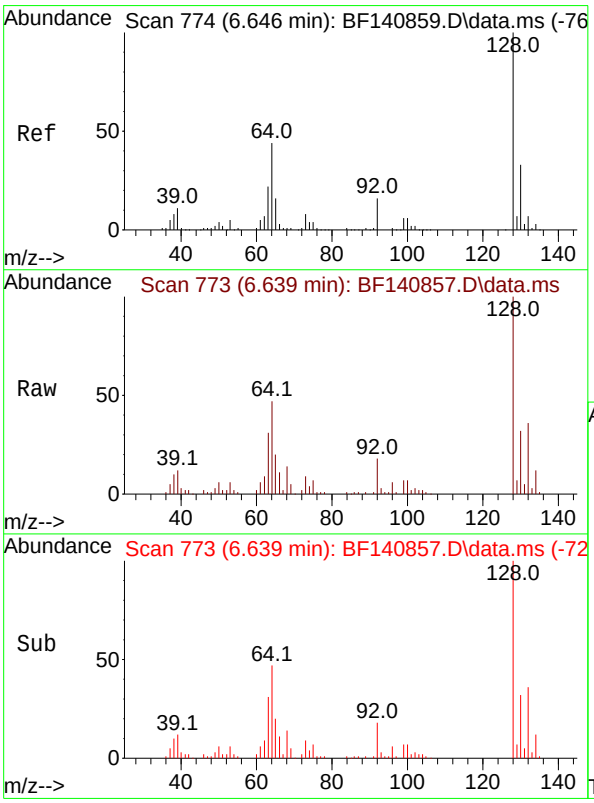
#7
Phenol-d6
Concen: 20.645 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 127200

Ion	Ratio	Lower	Upper
99	100		
42	18.7	14.3	21.5
71	37.6	29.9	44.9

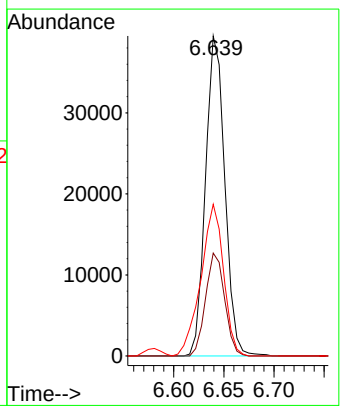


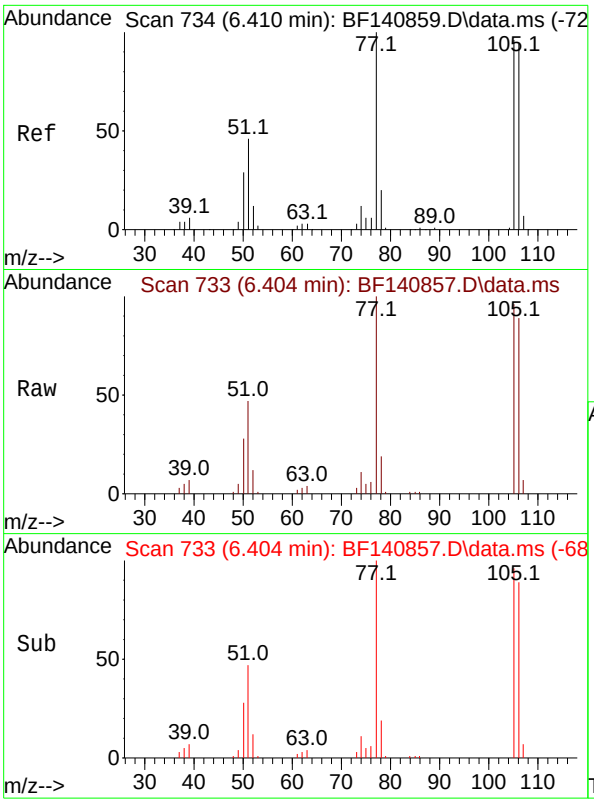


#8
2-Chlorophenol
Concen: 10.411 ng
RT: 6.639 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:128 Resp: 52812

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.9	52.9
64	47.4	24.3	64.3



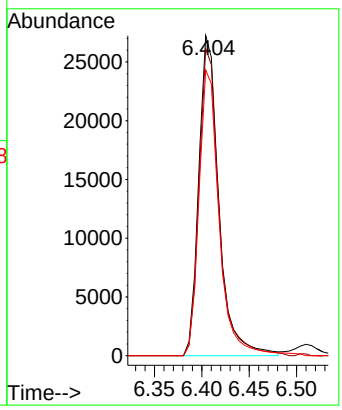


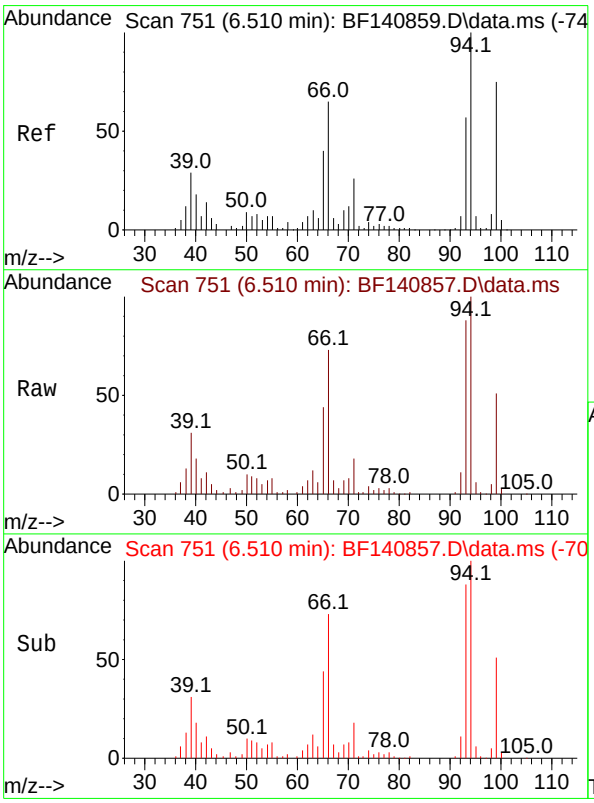
#9
Benzaldehyde
Concen: 11.792 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 40257

Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.8	115.8
106	89.3	74.1	114.1

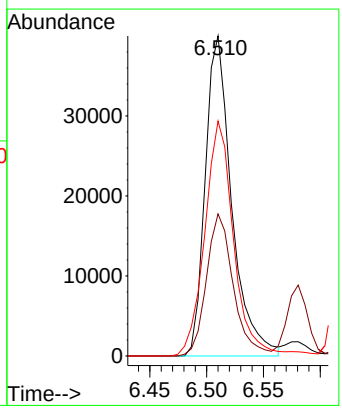


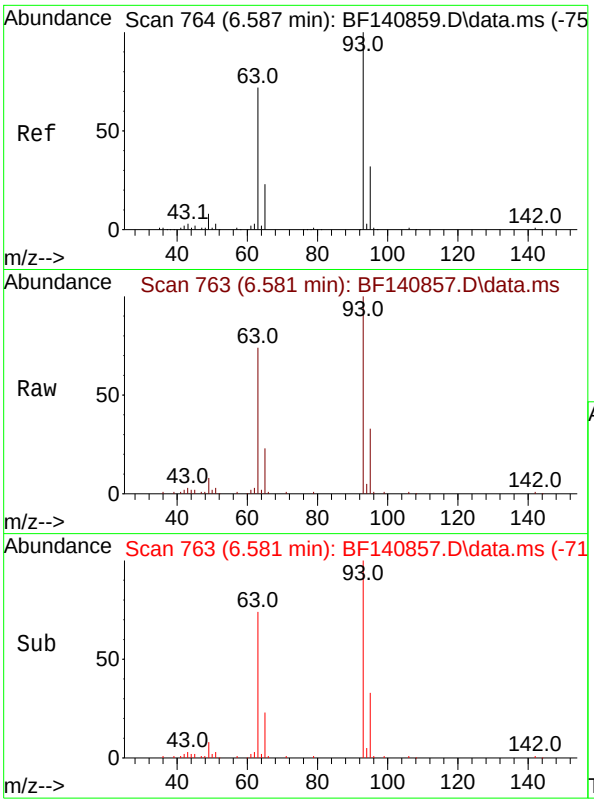


#10
Phenol
Concen: 10.135 ng
RT: 6.510 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 94 Resp: 64718

Ion	Ratio	Lower	Upper
94	100		
65	44.4	19.9	59.9
66	73.4	45.6	85.6



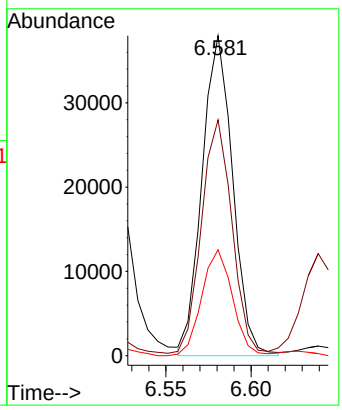


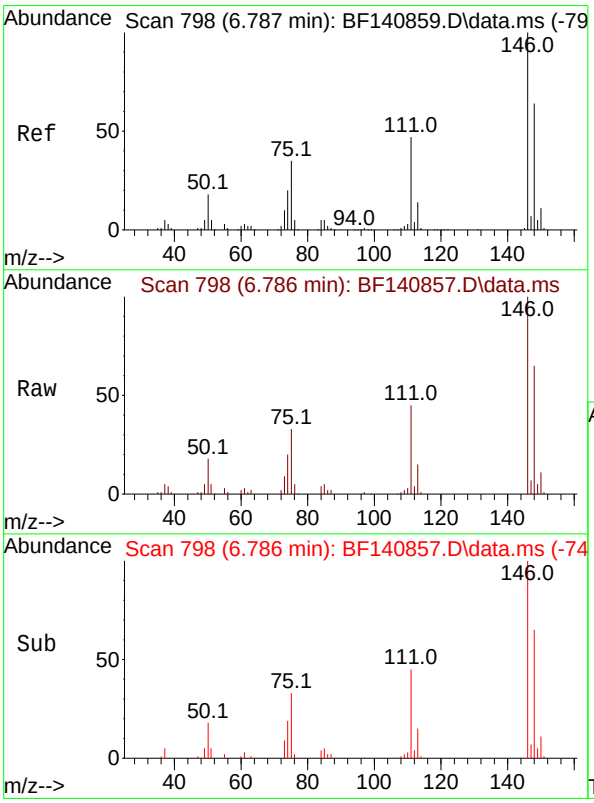
#11
bis(2-Chloroethyl)ether
Concen: 9.984 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 47546

Ion	Ratio	Lower	Upper
93	100		
63	73.7	51.0	91.0
95	33.1	12.0	52.0

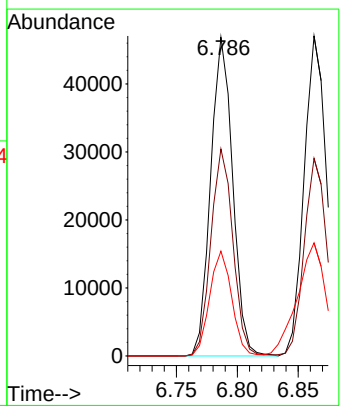


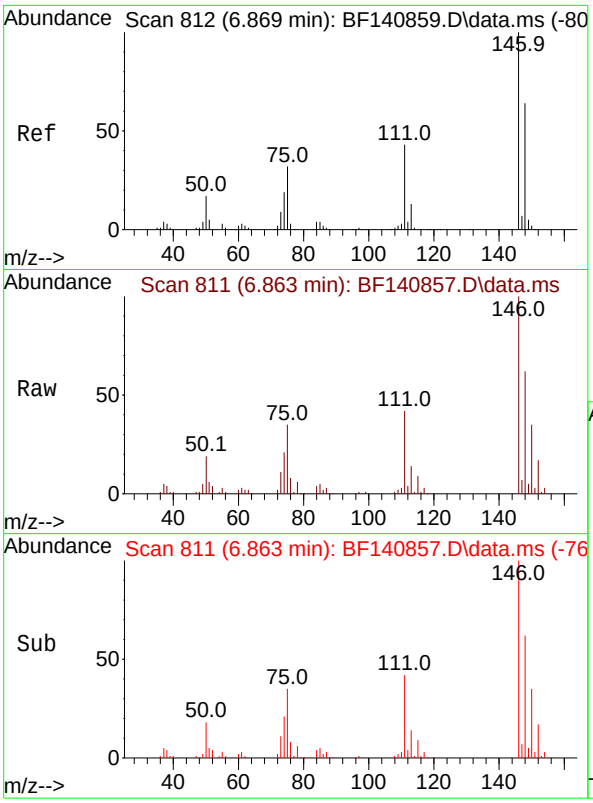


#12
1,3-Dichlorobenzene
Concen: 10.199 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:146 Resp: 58952

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.0	76.6
75	32.9	28.1	42.1



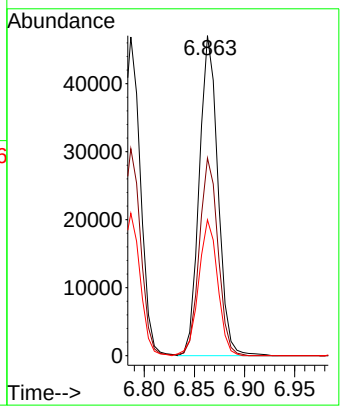


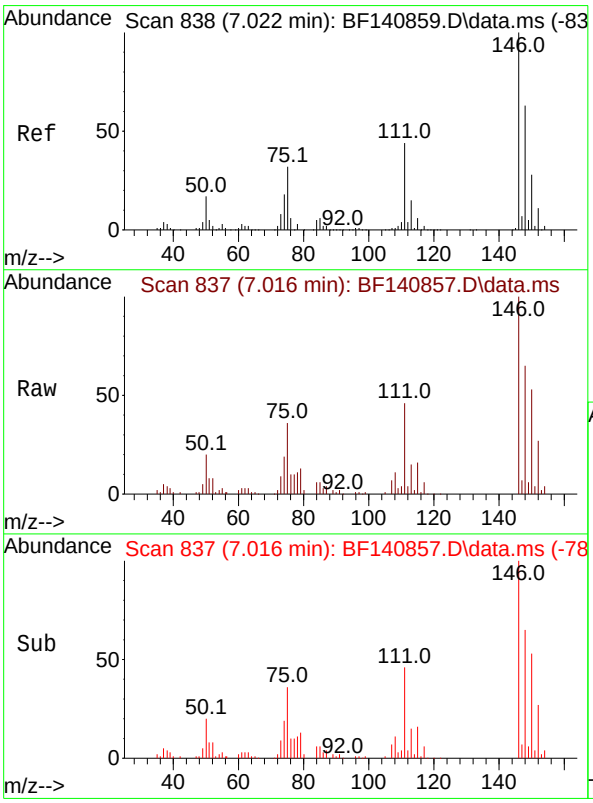
#13
1,4-Dichlorobenzene
Concen: 10.451 ng
RT: 6.863 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 61319

Ion	Ratio	Lower	Upper
146	100		
148	61.8	51.3	76.9
111	42.5	34.4	51.6

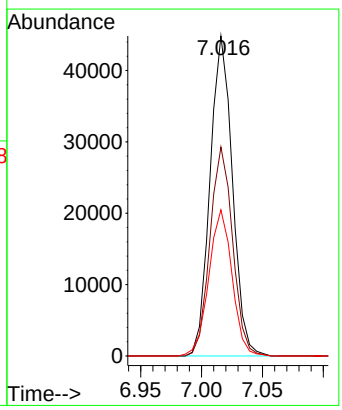


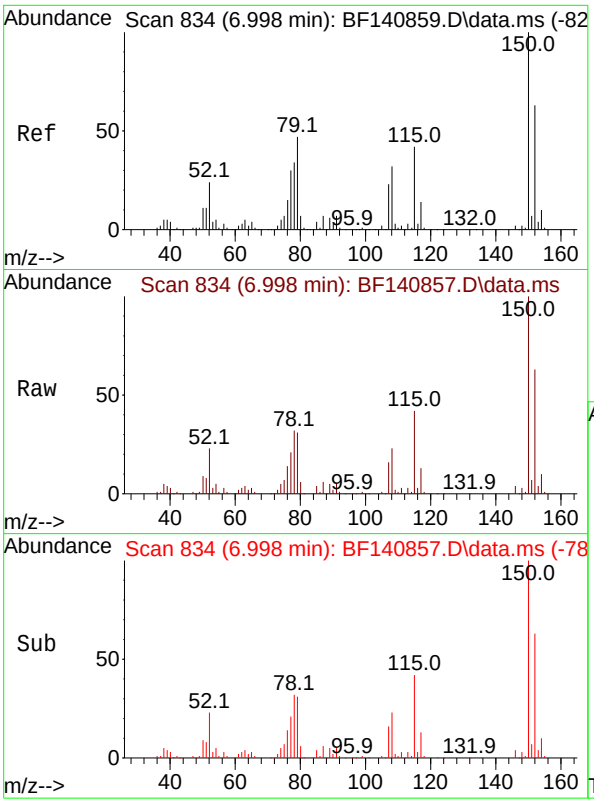


#14
1,2-Dichlorobenzene
Concen: 10.343 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:146 Resp: 57259

Ion	Ratio	Lower	Upper
146	100		
148	65.3	50.0	75.0
111	45.6	35.6	53.4



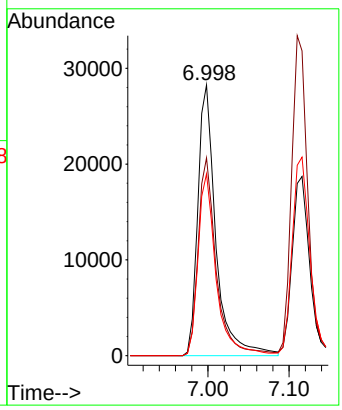


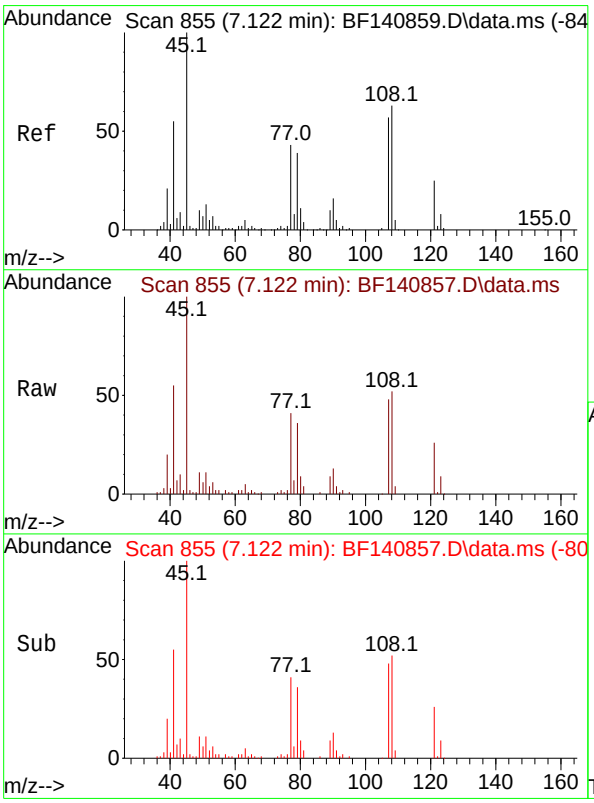
#15
Benzyl Alcohol
Concen: 9.936 ng
RT: 6.998 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 43771

Ion	Ratio	Lower	Upper
79	100		
108	73.1	55.1	82.7
77	67.2	50.6	76.0

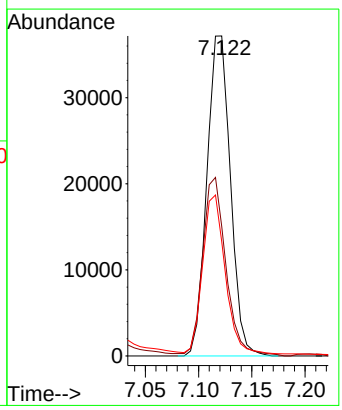


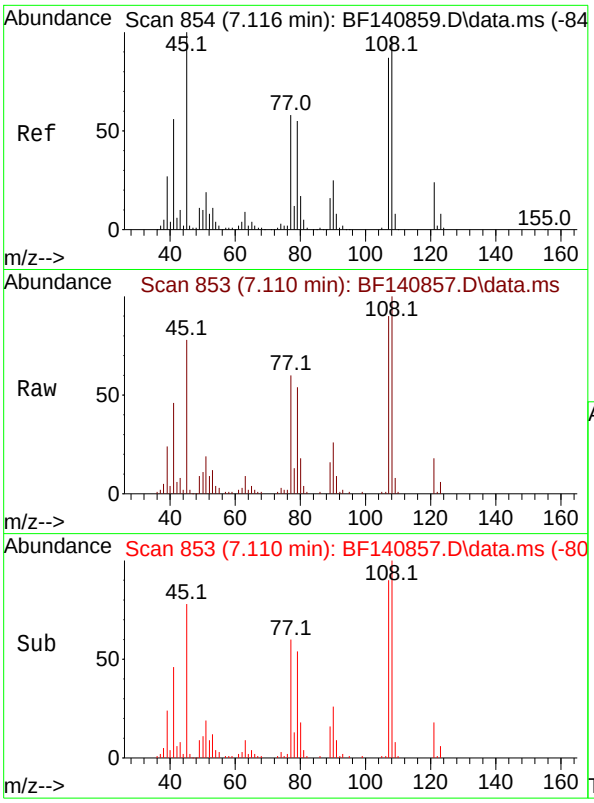


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.204 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 45 Resp: 57243

Ion	Ratio	Lower	Upper
45	100		
77	40.5	23.3	63.3
79	35.8	20.0	60.0



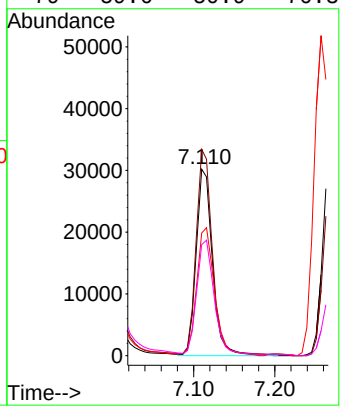


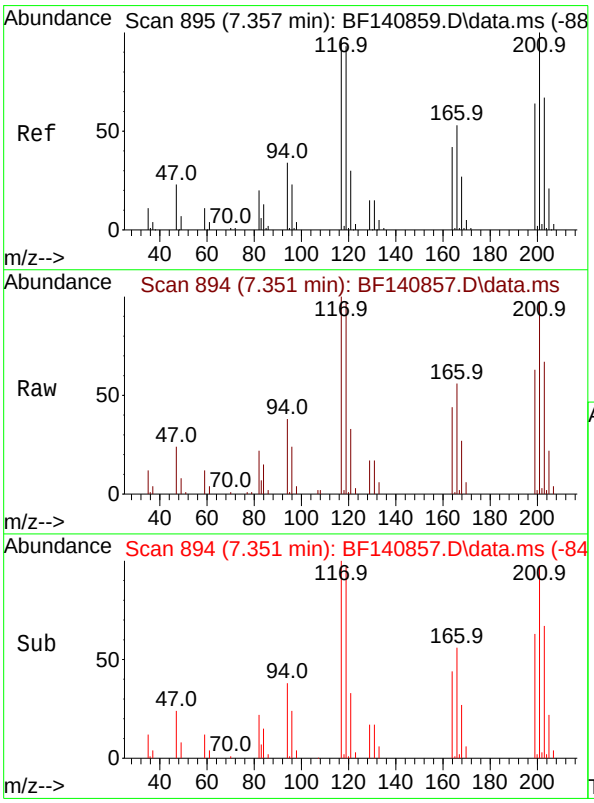
#17
2-Methylphenol
Concen: 10.446 ng
RT: 7.110 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 42307

Ion	Ratio	Lower	Upper
107	100		
108	110.7	90.2	135.4
77	65.9	53.8	80.6
79	59.6	50.9	76.3

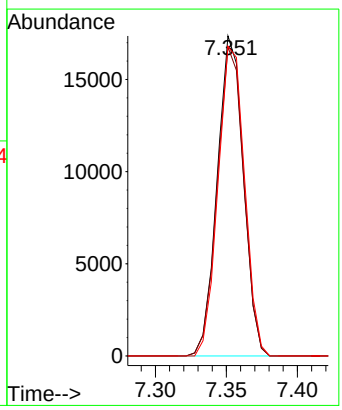


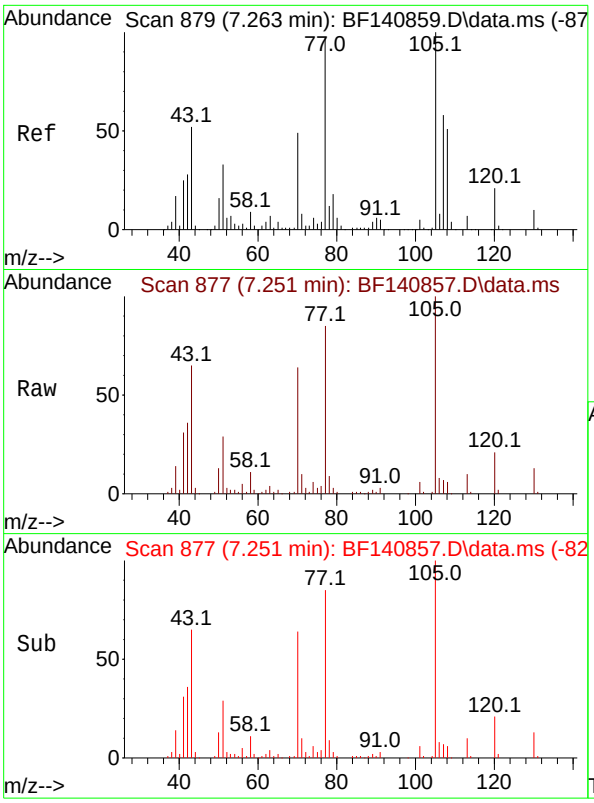


#18
Hexachloroethane
Concen: 10.174 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:117 Resp: 22224

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.4	116.0
201	96.8	83.4	125.0



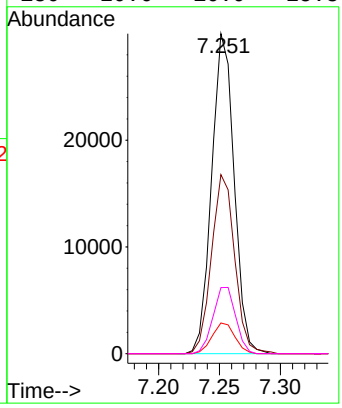


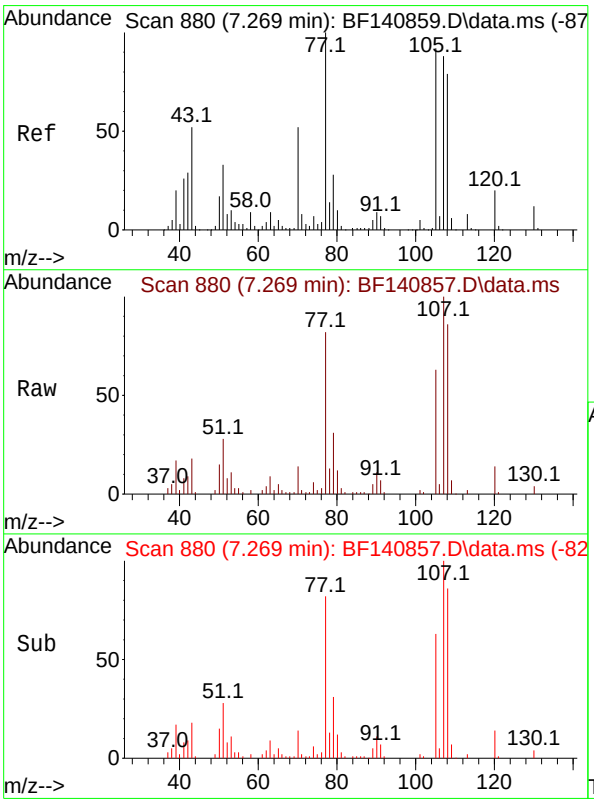
#19
n-Nitroso-di-n-propylamine
Concen: 10.406 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 38459

Ion	Ratio	Lower	Upper
70	100		
42	55.9	45.3	67.9
101	9.6	8.0	12.0
130	20.6	16.9	25.3

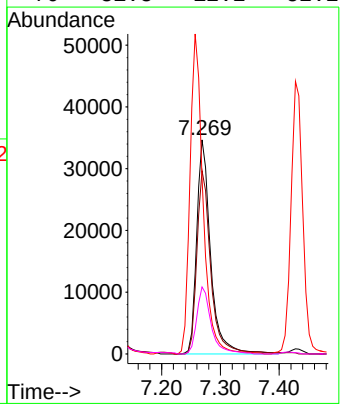


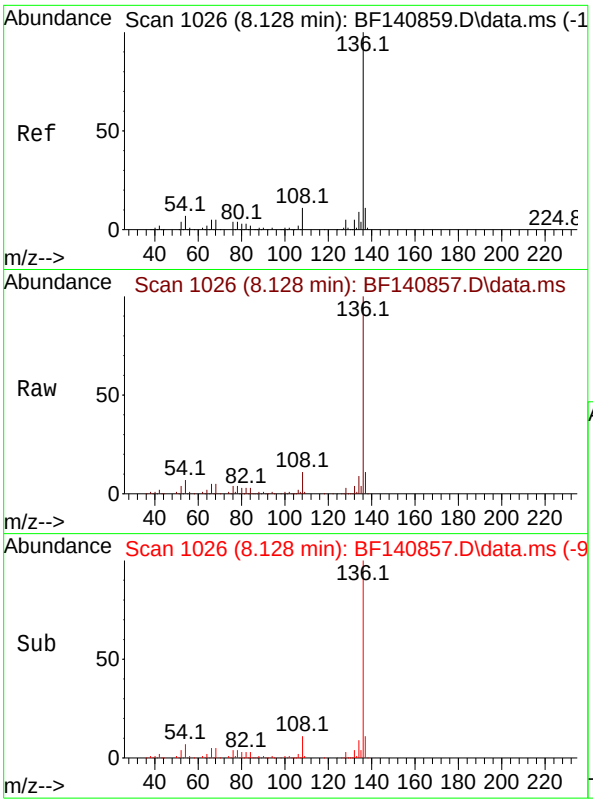


#20
3+4-Methylphenols
Concen: 10.628 ng
RT: 7.269 min Scan# 880
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:107 Resp: 57077

Ion	Ratio	Lower	Upper
107	100		
108	85.6	70.1	110.1
77	82.3	94.4	134.4#
79	31.3	12.2	52.2



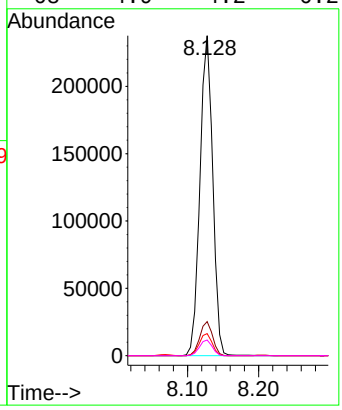


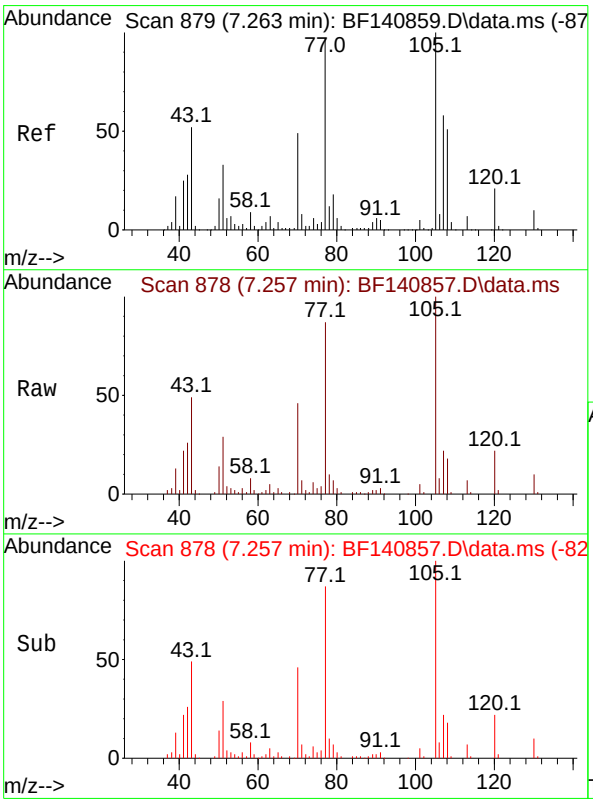
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 298630

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	6.9	5.6	8.4
68	4.9	4.2	6.2

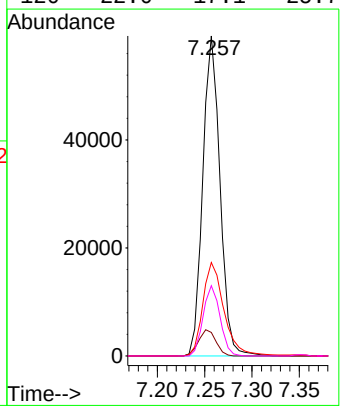


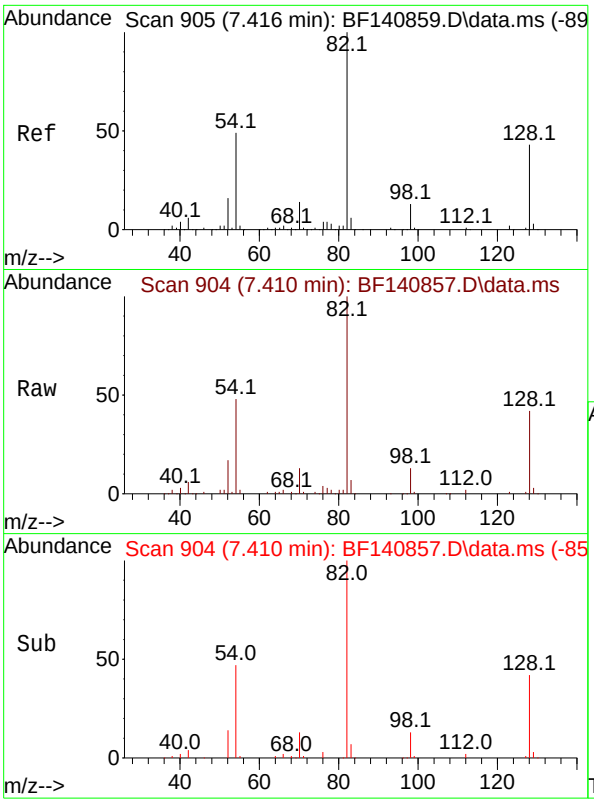


#22
Acetophenone
Concen: 10.046 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:105 Resp: 75049

Ion	Ratio	Lower	Upper
105	100		
71	7.3	6.2	9.4
51	29.2	26.3	39.5
120	22.0	17.1	25.7



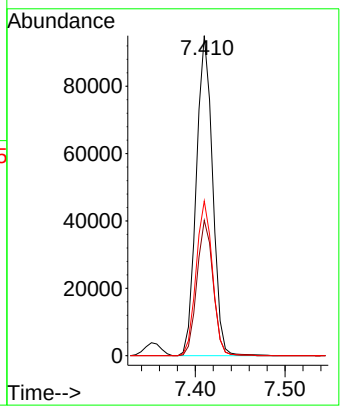


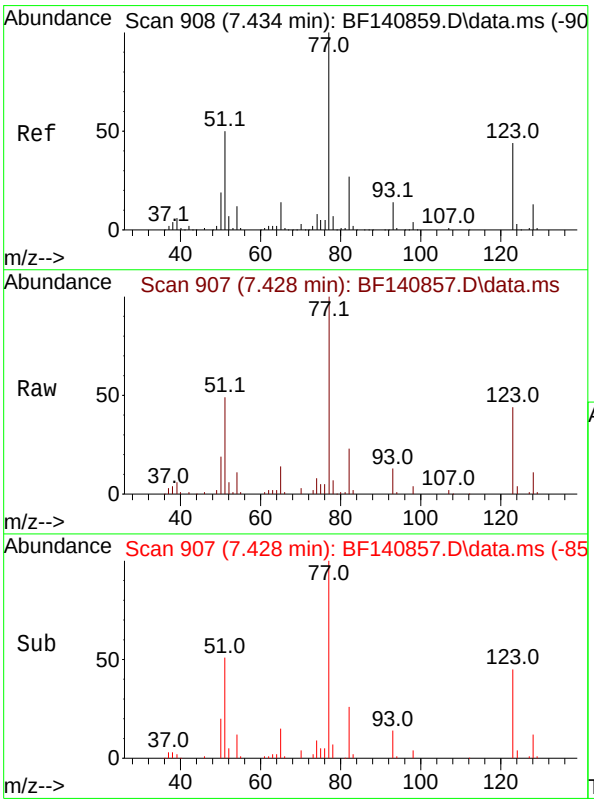
#23
Nitrobenzene-d5
Concen: 20.048 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 119665

Ion	Ratio	Lower	Upper
82	100		
128	42.3	34.4	51.6
54	48.3	38.8	58.2

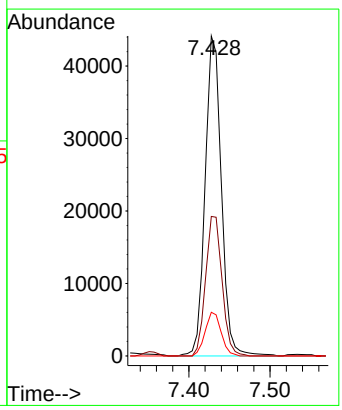


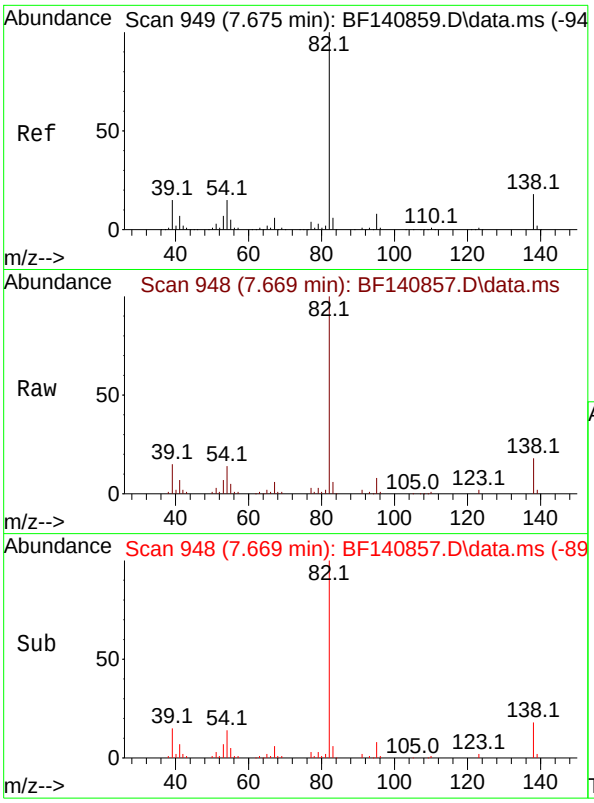


#24
Nitrobenzene
Concen: 10.024 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 77 Resp: 61294

Ion	Ratio	Lower	Upper
77	100		
123	43.6	35.0	52.4
65	13.7	11.4	17.0



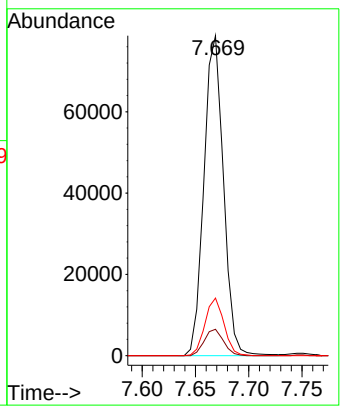


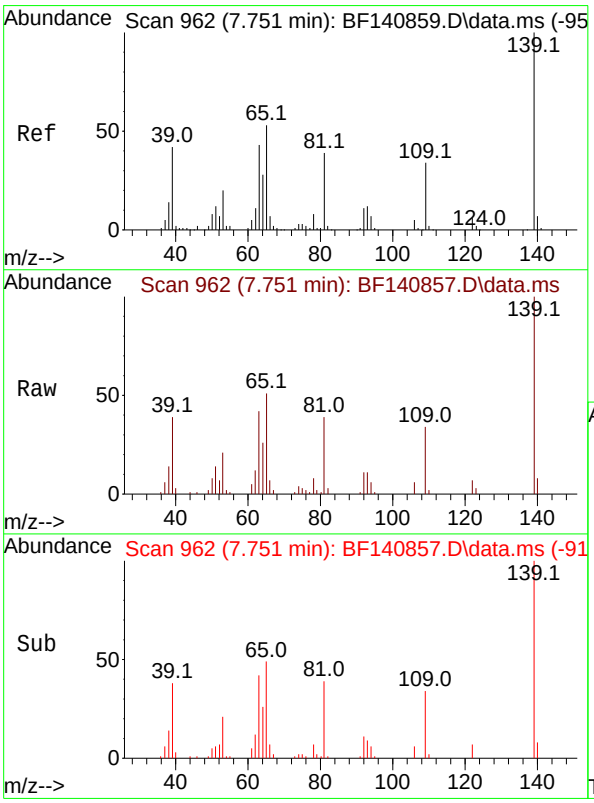
#25
Isophorone
Concen: 10.039 ng
RT: 7.669 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 100405

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.3	9.5
138	18.0	14.1	21.1

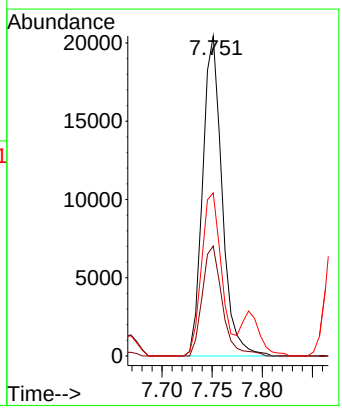


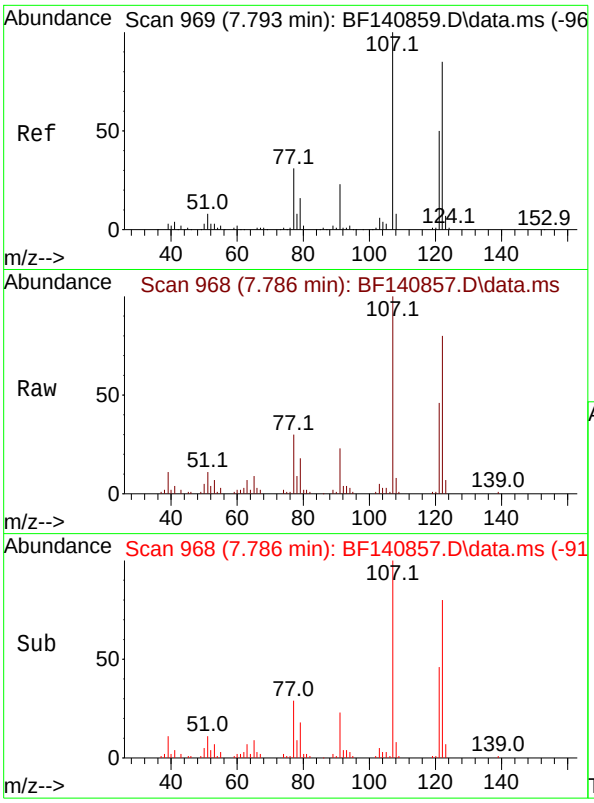


#26
2-Nitrophenol
Concen: 9.808 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:139 Resp: 27623

Ion	Ratio	Lower	Upper
139	100		
109	34.3	26.9	40.3
65	51.0	42.6	64.0



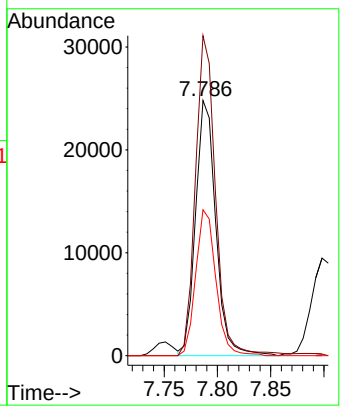


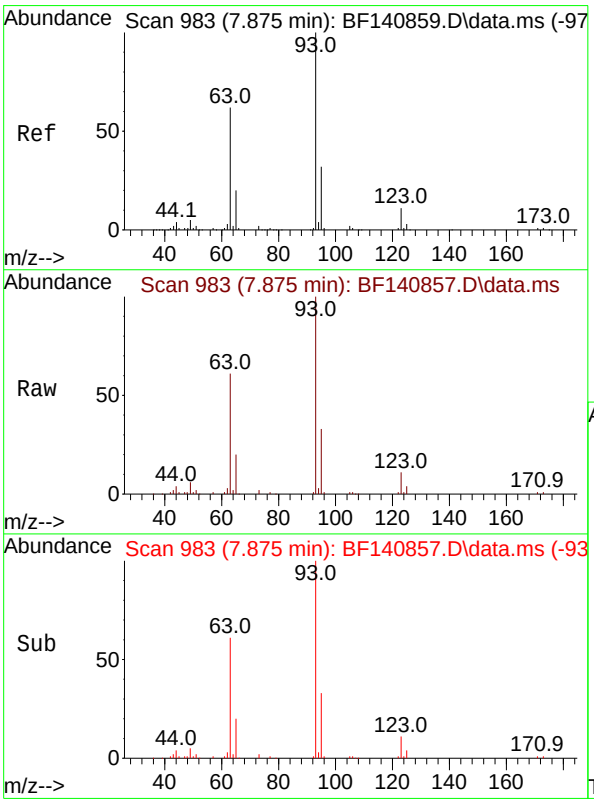
#27
2,4-Dimethylphenol
Concen: 9.988 ng
RT: 7.786 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 32852

Ion	Ratio	Lower	Upper
122	100		
107	125.4	92.6	139.0
121	57.2	45.8	68.8

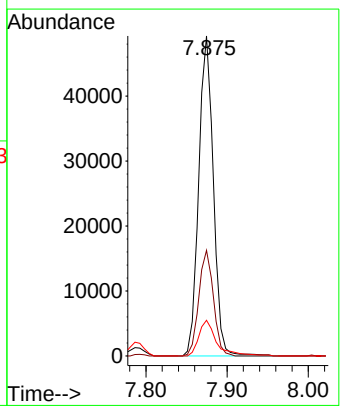


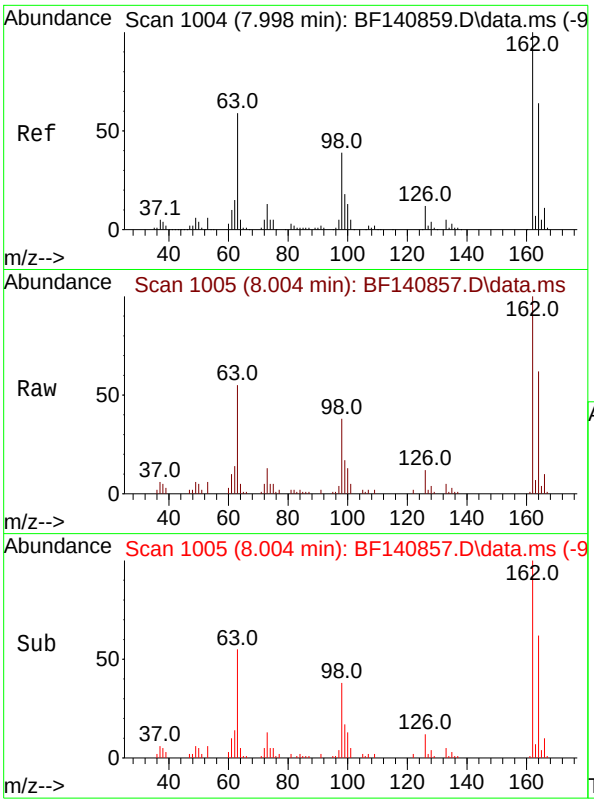


#28
bis(2-Chloroethoxy)methane
Concen: 9.886 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 93 Resp: 61752

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.3	37.9
123	11.2	8.6	13.0



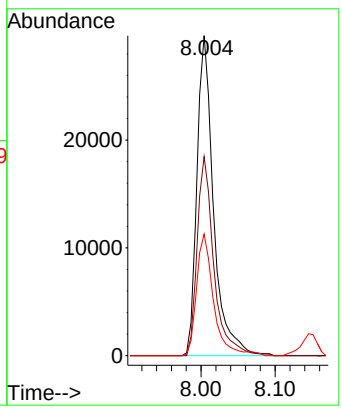


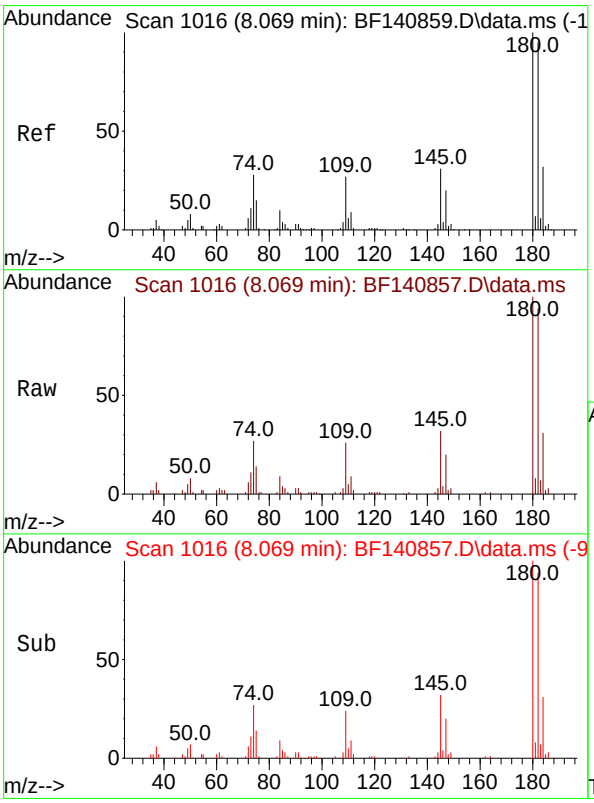
#29
2,4-Dichlorophenol
Concen: 10.191 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 46274

Ion	Ratio	Lower	Upper
162	100		
164	62.2	43.7	83.7
98	38.0	18.6	58.6

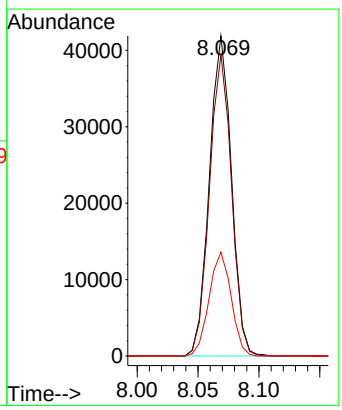


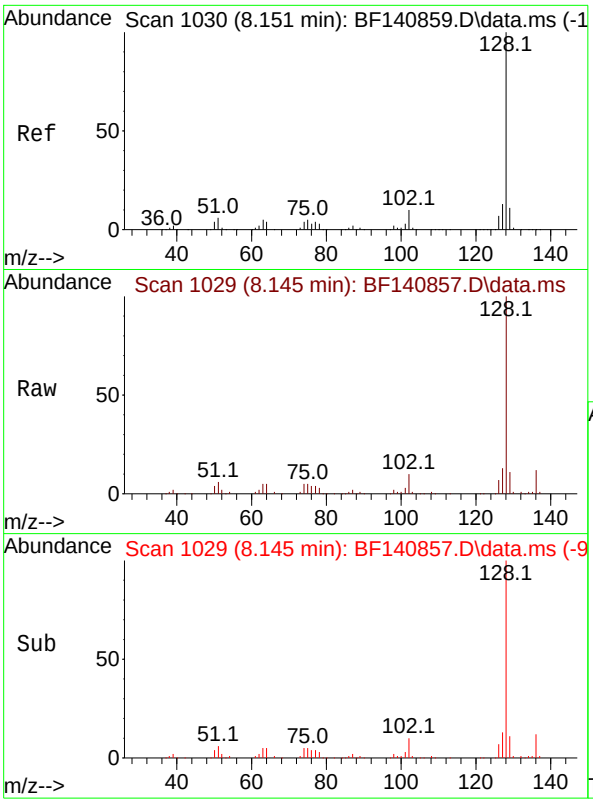


#30
1,2,4-Trichlorobenzene
Concen: 10.141 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:180 Resp: 52790

Ion	Ratio	Lower	Upper
180	100		
182	94.2	75.8	113.6
145	32.4	25.2	37.8



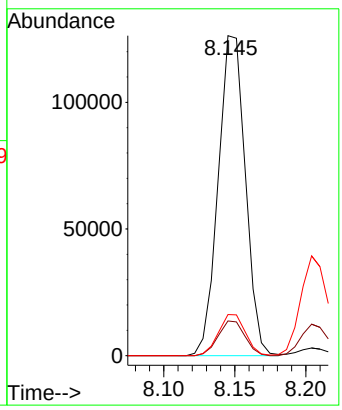


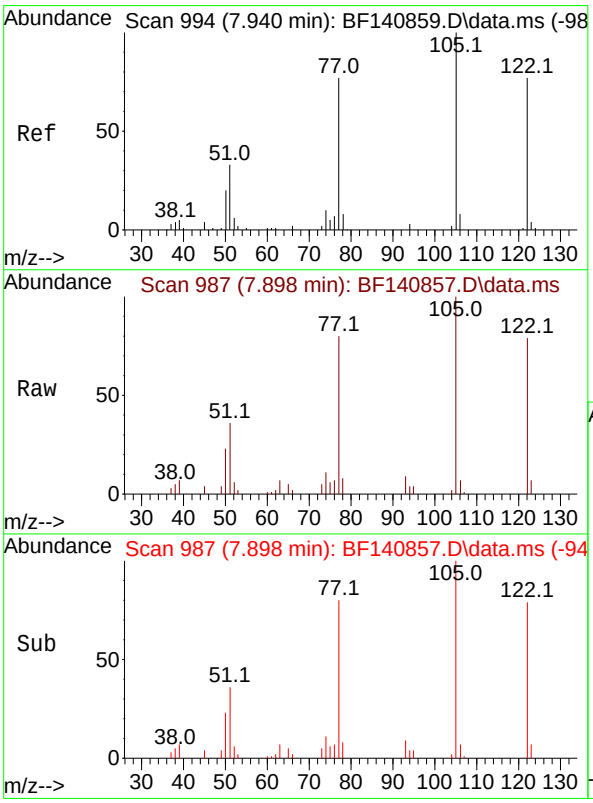
#31
Naphthalene
Concen: 10.241 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 168002

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	12.8	10.6	16.0

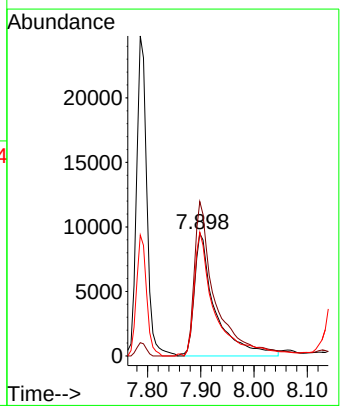


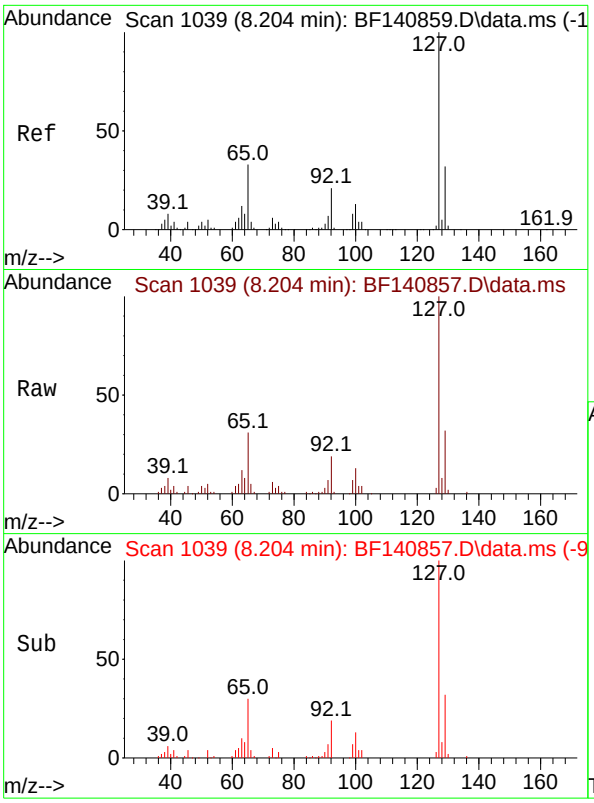


#32
Benzoic acid
Concen: 8.261 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.042 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:122 Resp: 25770

Ion	Ratio	Lower	Upper
122	100		
105	126.2	108.3	148.3
77	101.3	78.8	118.8



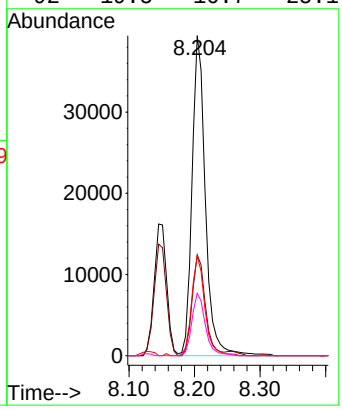


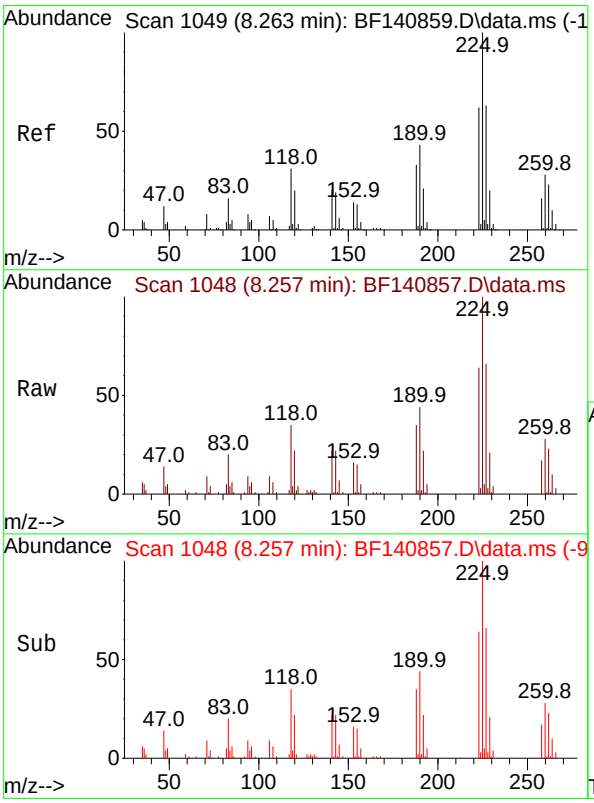
#33
4-Chloroaniline
Concen: 10.269 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 55948

Ion	Ratio	Lower	Upper
127	100		
129	31.5	26.0	39.0
65	31.2	26.0	39.0
92	19.5	16.7	25.1

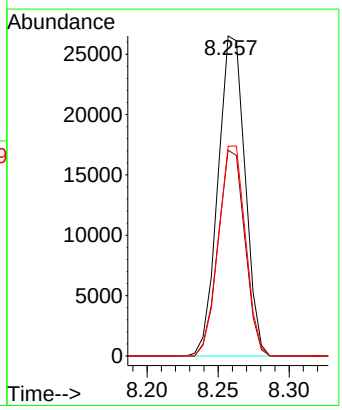


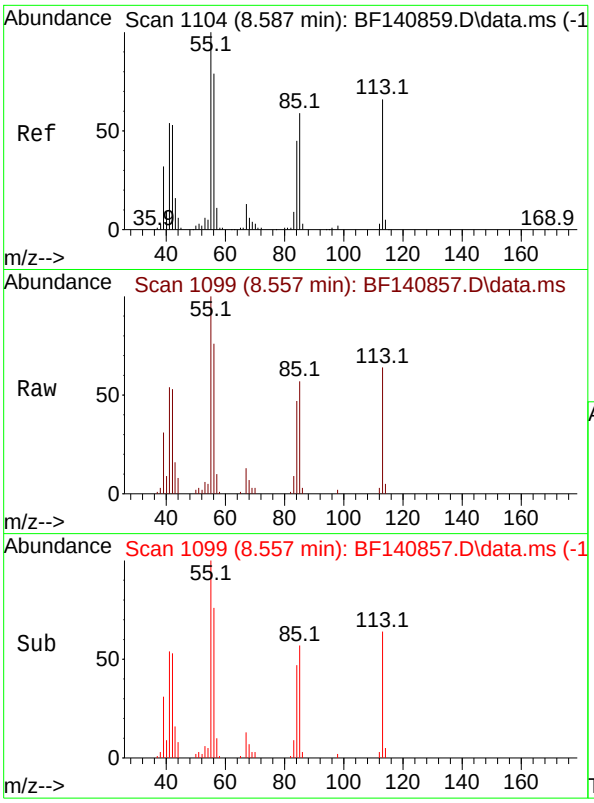


#34
Hexachlorobutadiene
Concen: 10.022 ng
RT: 8.257 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:225 Resp: 35099

Ion	Ratio	Lower	Upper
225	100		
223	64.3	49.6	74.4
227	65.5	50.7	76.1



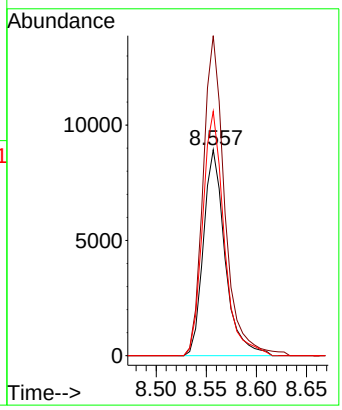


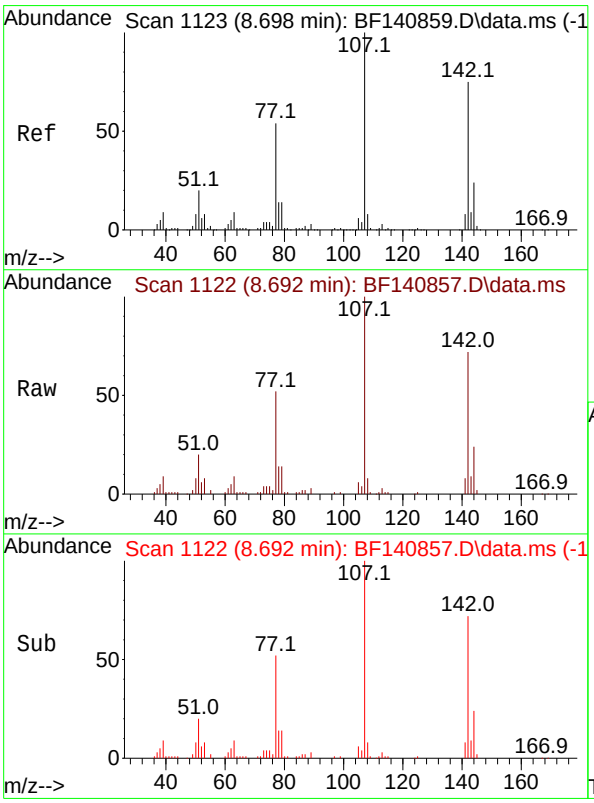
#35
Caprolactam
Concen: 9.925 ng
RT: 8.557 min Scan# 1
Delta R.T. -0.030 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 13417

Ion	Ratio	Lower	Upper
113	100		
55	155.4	132.3	172.3
56	118.6	100.3	140.3

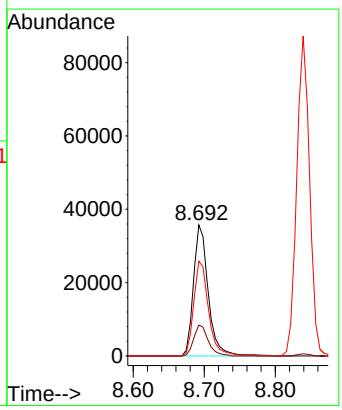


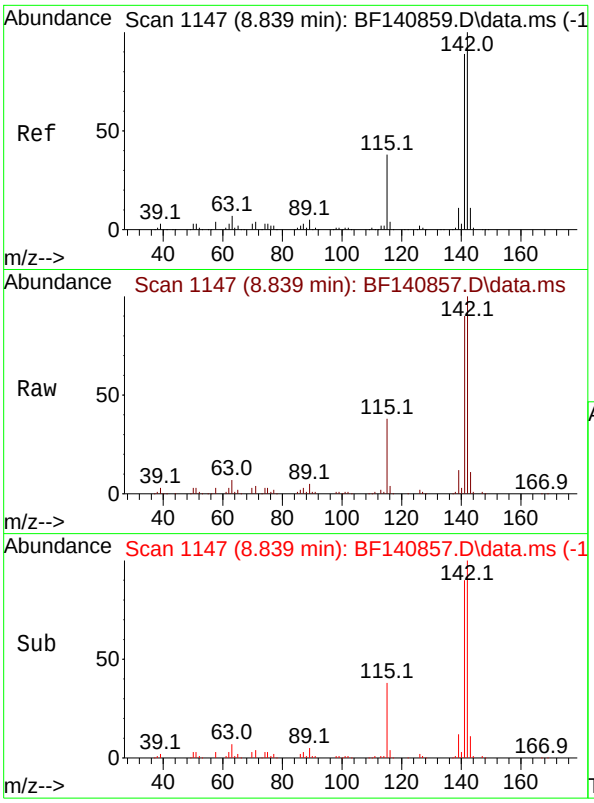


#36
4-Chloro-3-methylphenol
Concen: 10.150 ng
RT: 8.692 min Scan# 1122
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:107 Resp: 51876

Ion	Ratio	Lower	Upper
107	100		
144	23.6	19.4	29.2
142	72.3	60.3	90.5



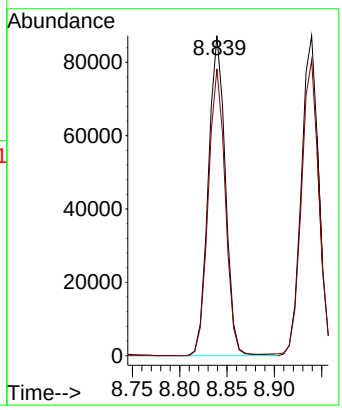


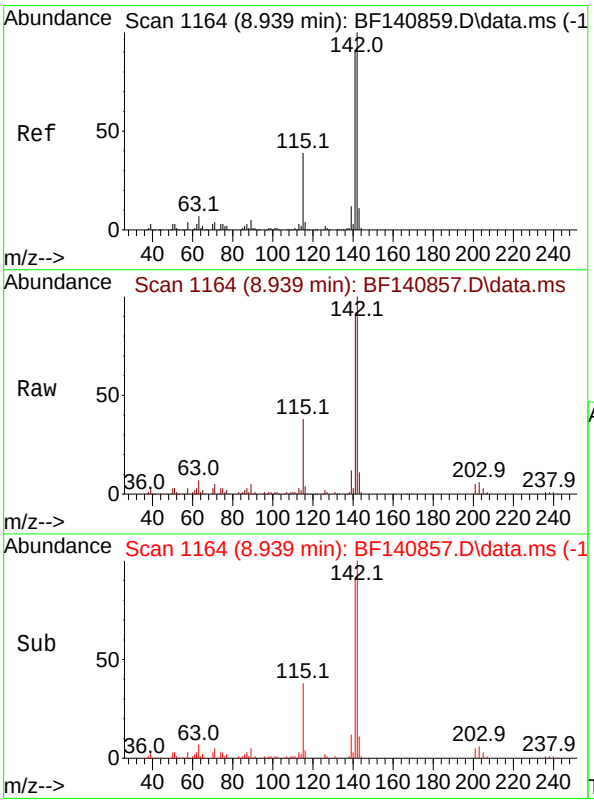
#37
2-Methylnaphthalene
Concen: 10.093 ng
RT: 8.839 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 109525

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.0	106.6

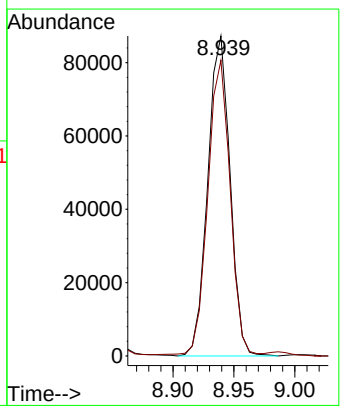


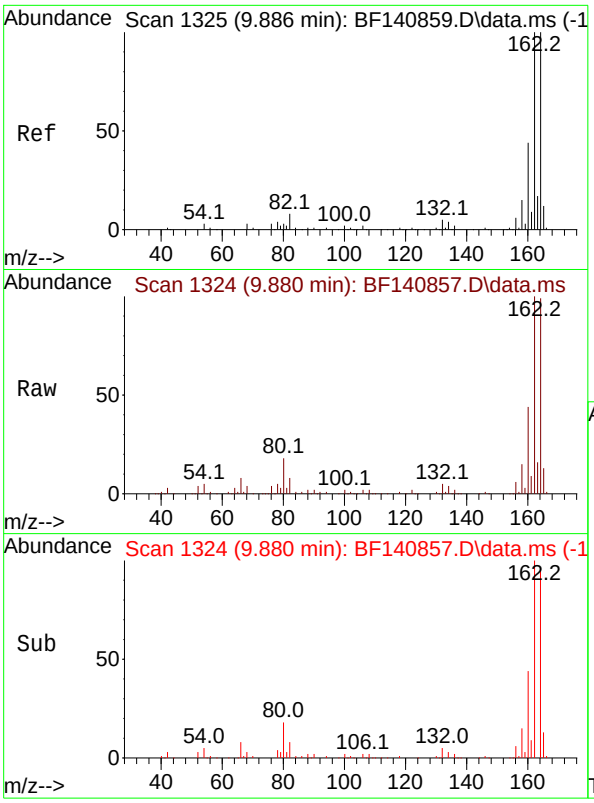


#38
1-Methylnaphthalene
Concen: 10.335 ng
RT: 8.939 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:142 Resp: 110917

Ion	Ratio	Lower	Upper
142	100		
141	92.4	73.4	110.0



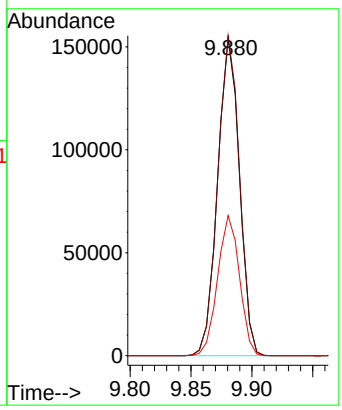


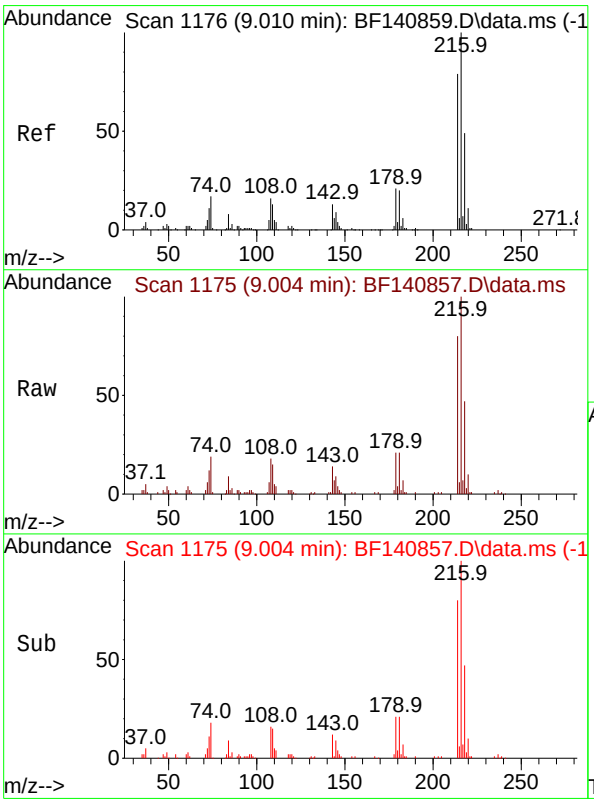
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.880 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 192062

Ion	Ratio	Lower	Upper
164	100		
162	100.9	79.9	119.9
160	44.2	35.2	52.8

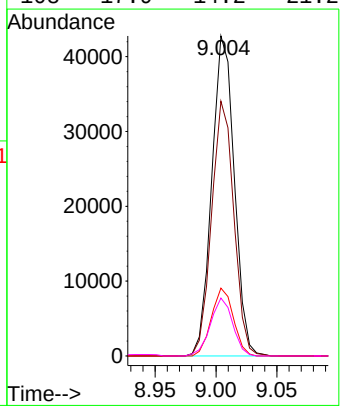


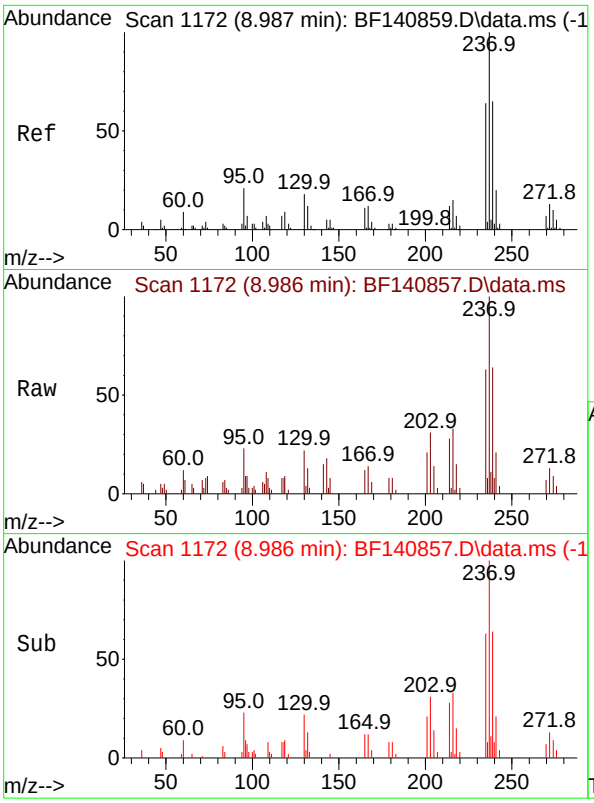


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.320 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:216 Resp: 55018

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.6	95.4
179	20.7	17.0	25.4
108	17.9	14.2	21.2



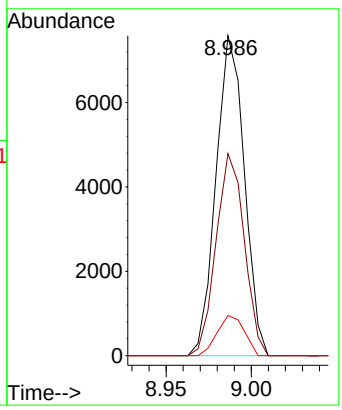


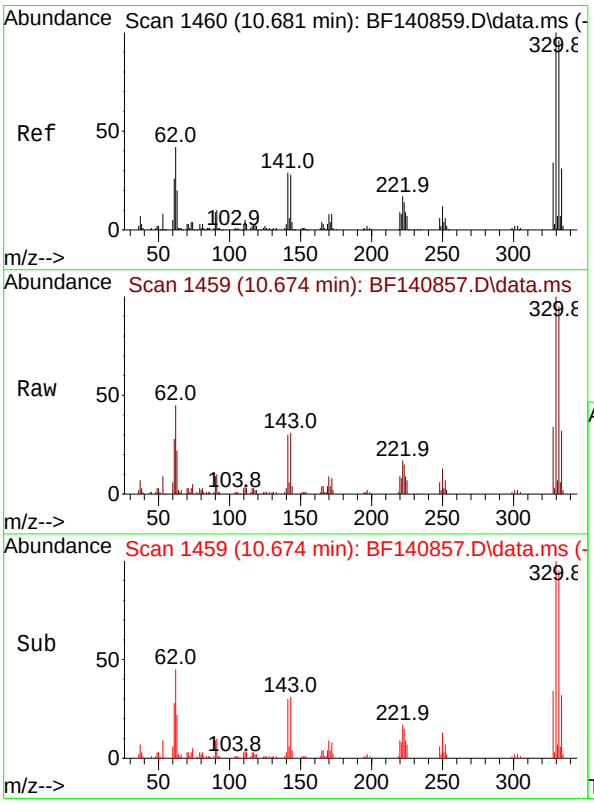
#41
Hexachlorocyclopentadiene
Concen: 8.866 ng
RT: 8.986 min Scan# 11
Delta R.T. -0.001 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 8781

Ion	Ratio	Lower	Upper
237	100		
235	63.1	43.7	83.7
272	12.5	0.0	32.9

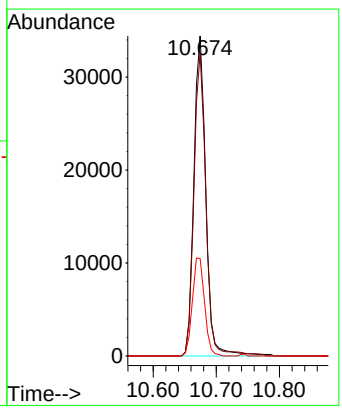


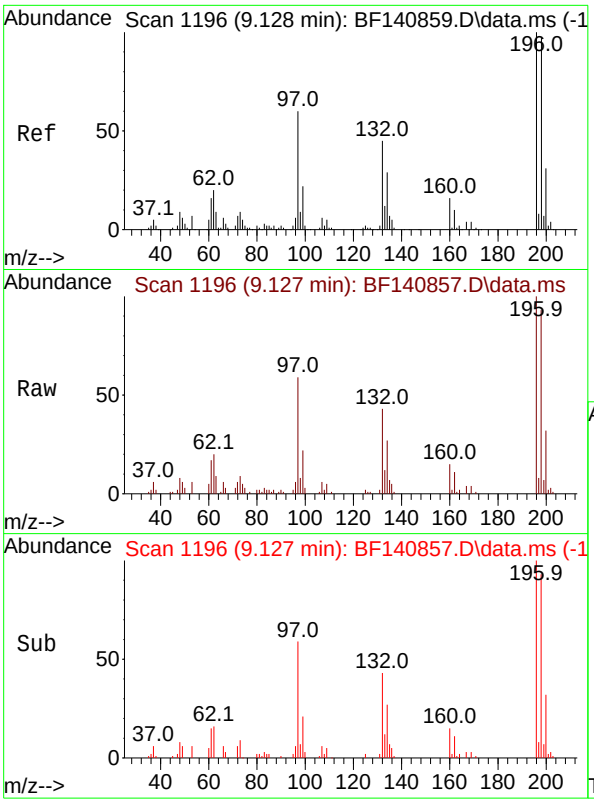


#42
2,4,6-Tribromophenol
Concen: 19.954 ng
RT: 10.674 min Scan# 1459
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:330 Resp: 45327

Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.2	114.4
141	31.1	24.9	37.3



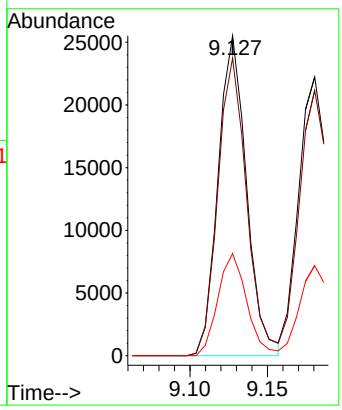


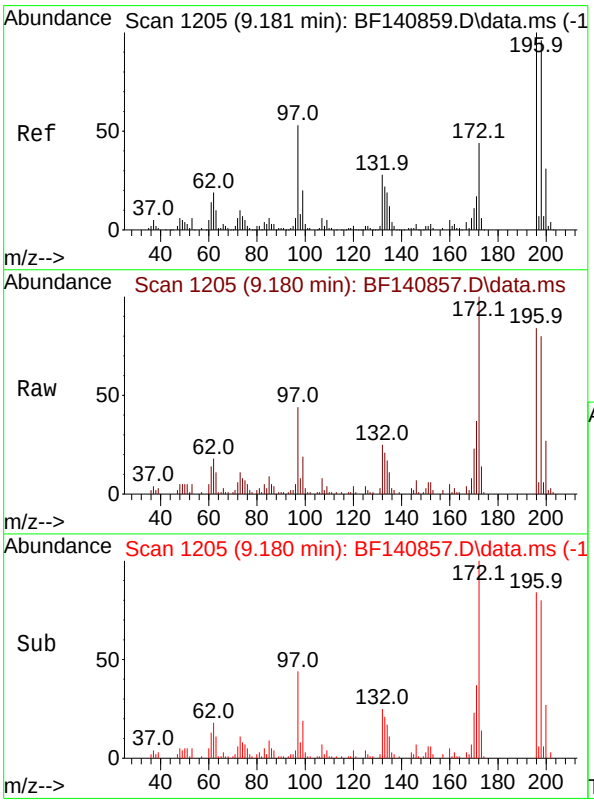
#43
2,4,6-Trichlorophenol
Concen: 9.006 ng
RT: 9.127 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 32555

Ion	Ratio	Lower	Upper
196	100		
198	93.0	77.4	116.0
200	31.9	24.5	36.7

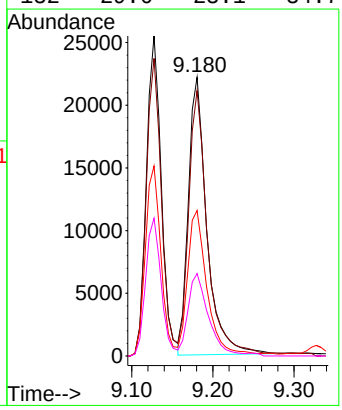


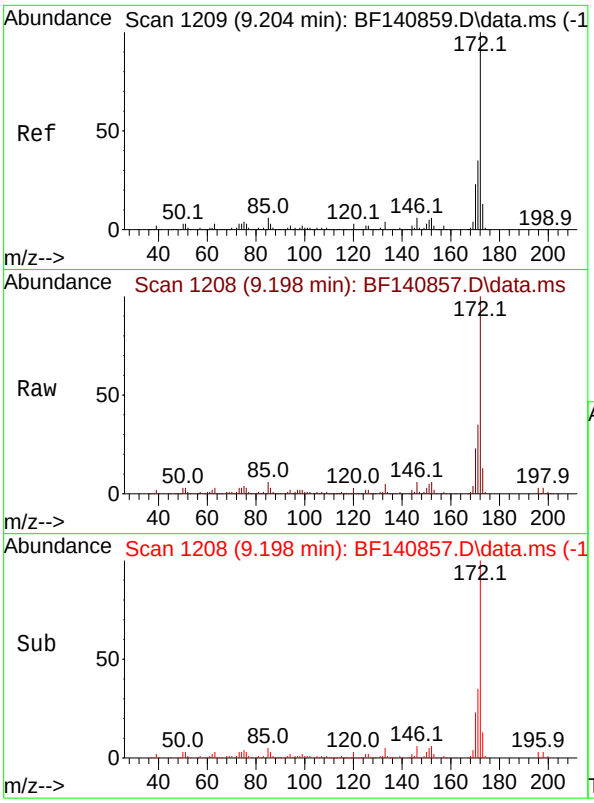


#44
2,4,5-Trichlorophenol
Concen: 8.817 ng
RT: 9.180 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:196 Resp: 35030

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.2	115.8
97	52.2	42.2	63.4
132	29.6	23.1	34.7



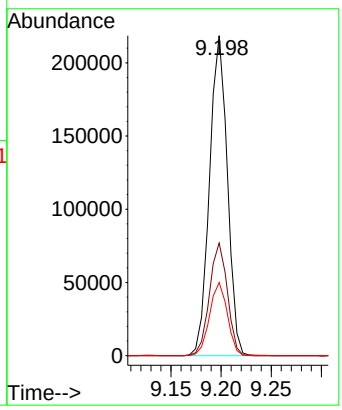


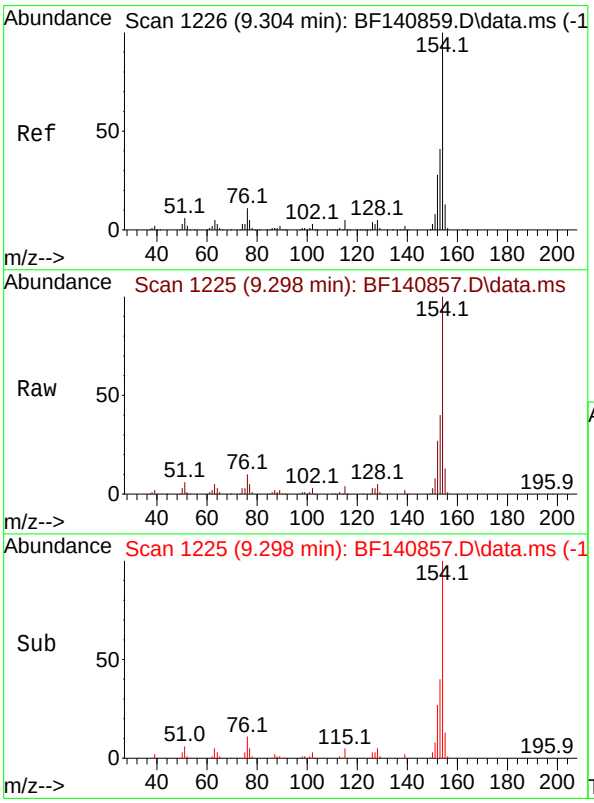
#45
2-Fluorobiphenyl
Concen: 19.381 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 270749

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	22.8	18.6	28.0

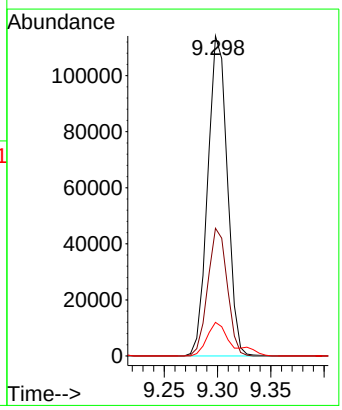


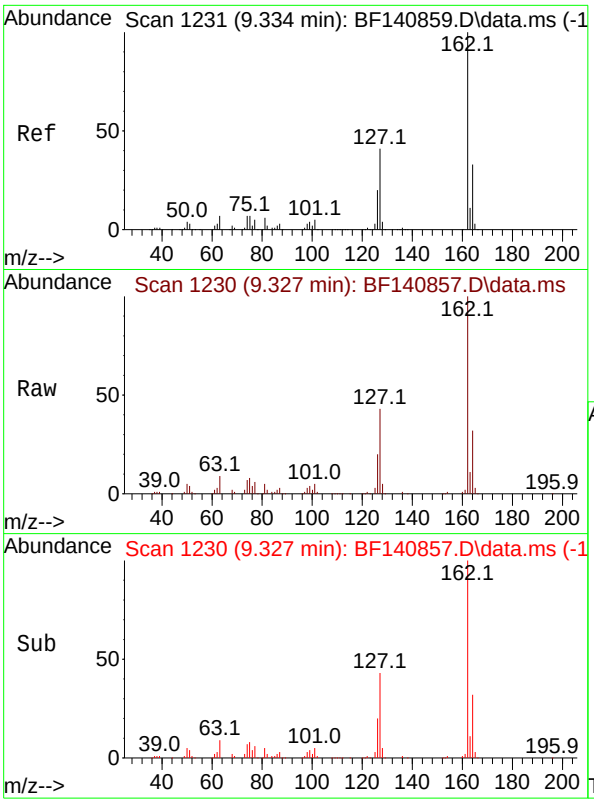


#46
1,1'-Biphenyl
Concen: 9.509 ng
RT: 9.298 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:154 Resp: 145227

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.8	60.8
76	10.5	0.0	31.0



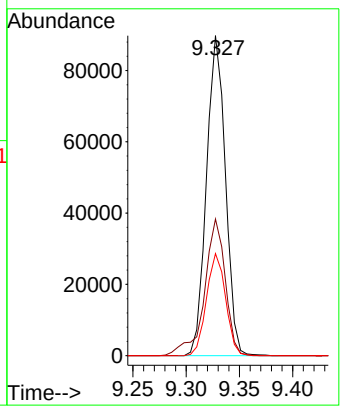


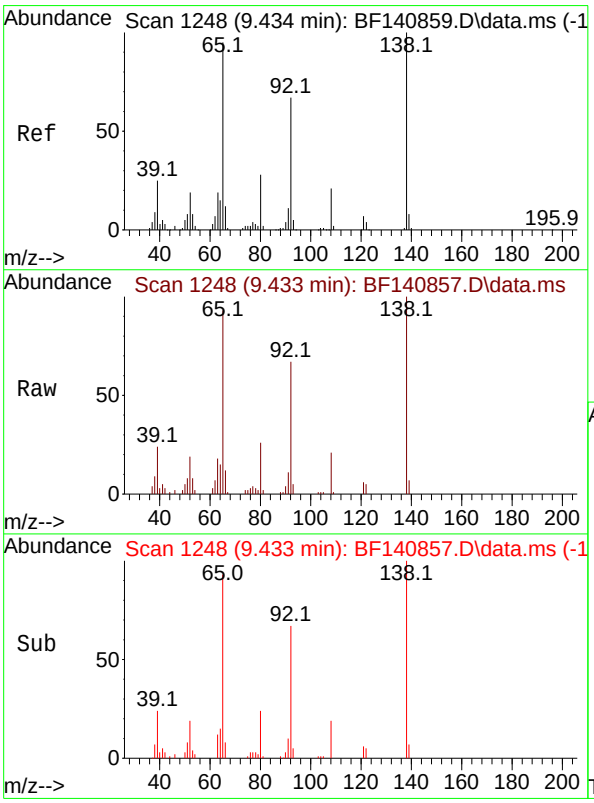
#47
2-Chloronaphthalene
Concen: 9.507 ng
RT: 9.327 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 111077

Ion	Ratio	Lower	Upper
162	100		
127	42.7	33.5	50.3
164	31.9	26.2	39.2

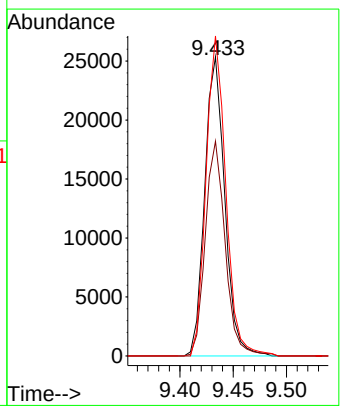


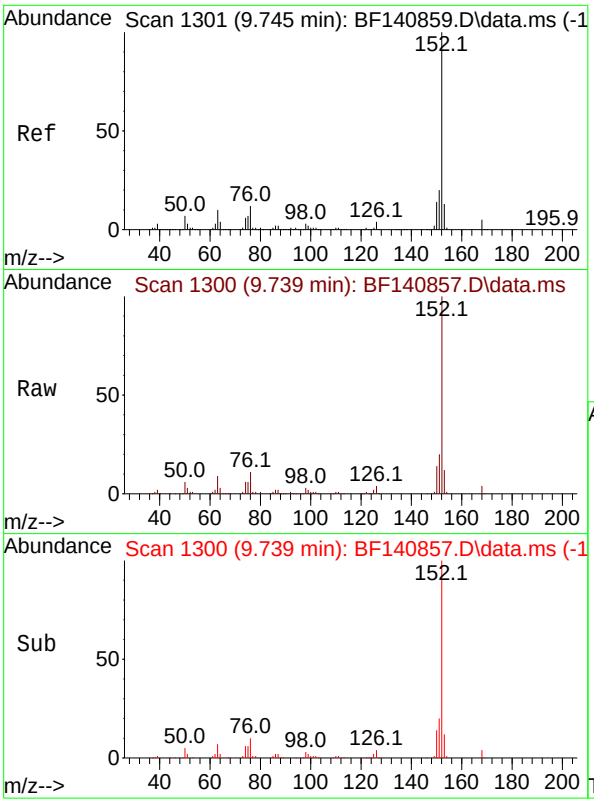


#48
2-Nitroaniline
Concen: 9.416 ng
RT: 9.433 min Scan# 1248
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion: 65 Resp: 33225

Ion	Ratio	Lower	Upper
65	100		
92	71.8	56.3	84.5
138	107.0	83.8	125.6



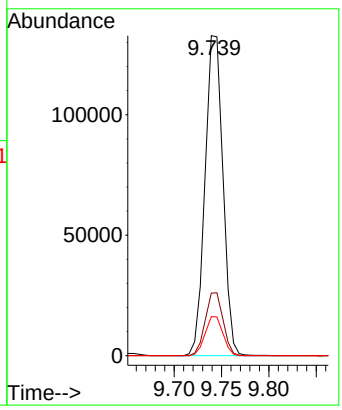


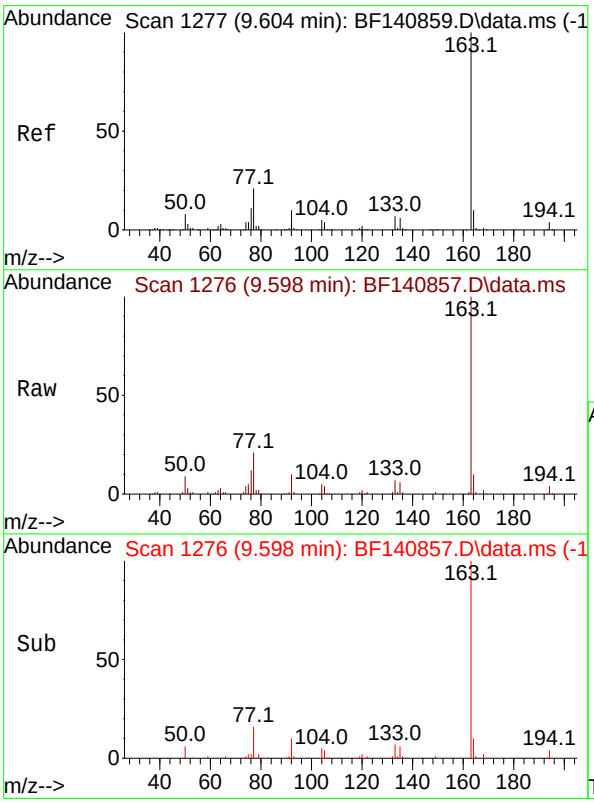
#49
Acenaphthylene
Concen: 10.187 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 174905

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.0	24.0
153	12.2	10.6	16.0

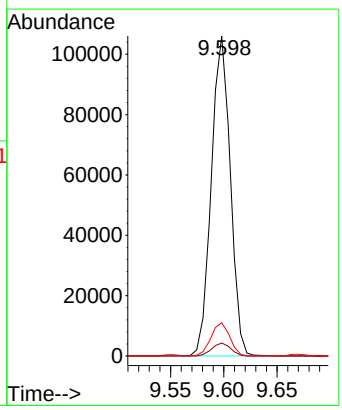


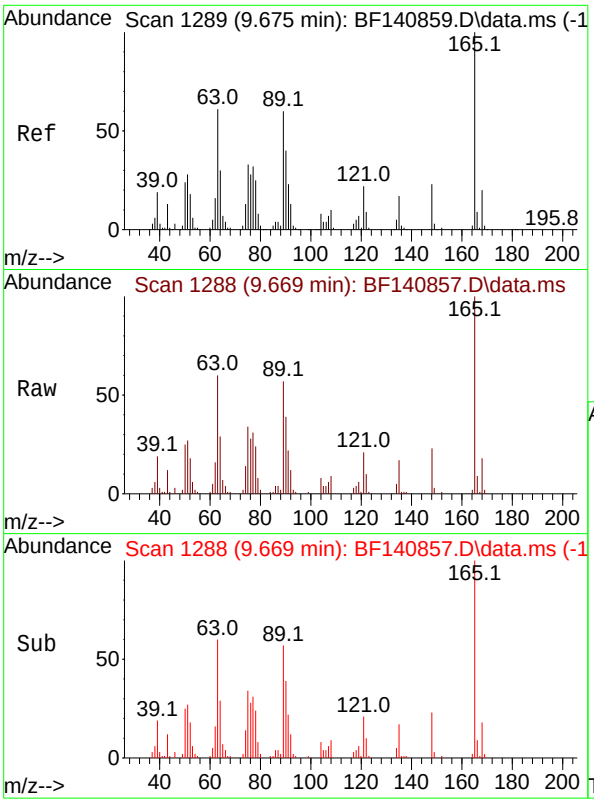


#50
Dimethylphthalate
Concen: 9.693 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:163 Resp: 131257

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.4	8.1	12.1



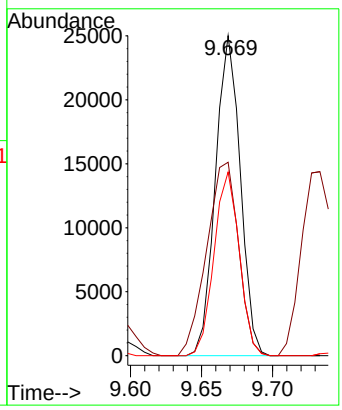


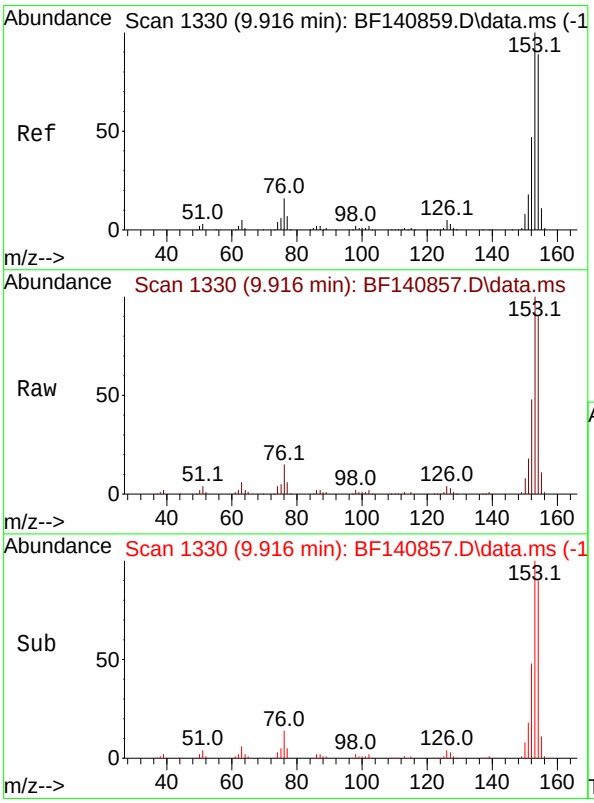
#51
2,6-Dinitrotoluene
Concen: 9.831 ng
RT: 9.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 30431

Ion	Ratio	Lower	Upper
165	100		
63	60.5	49.7	74.5
89	57.4	48.2	72.4

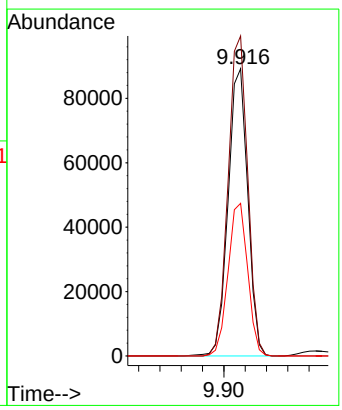


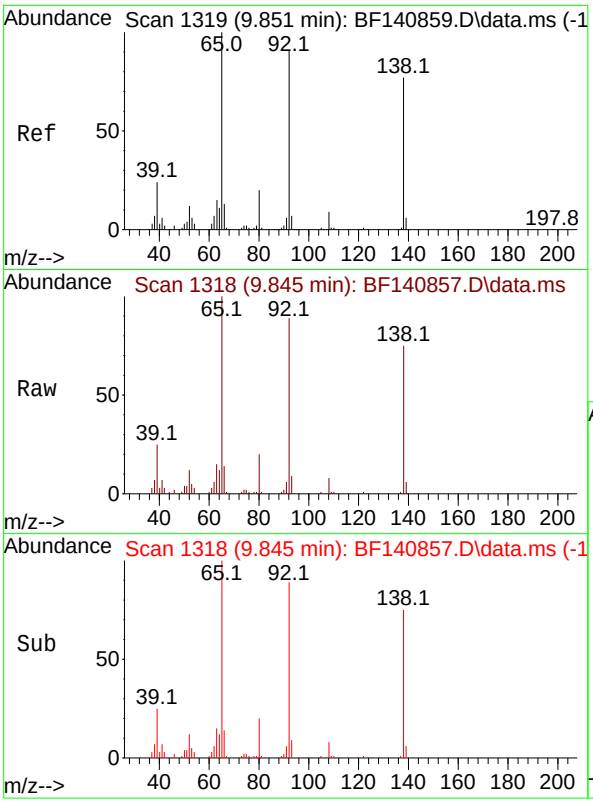


#52
Acenaphthene
Concen: 10.419 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:154 Resp: 114273

Ion	Ratio	Lower	Upper
154	100		
153	111.4	89.9	134.9
152	53.1	42.6	63.8



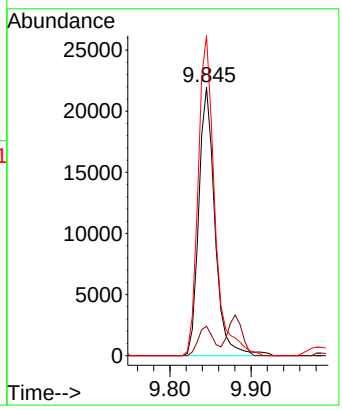


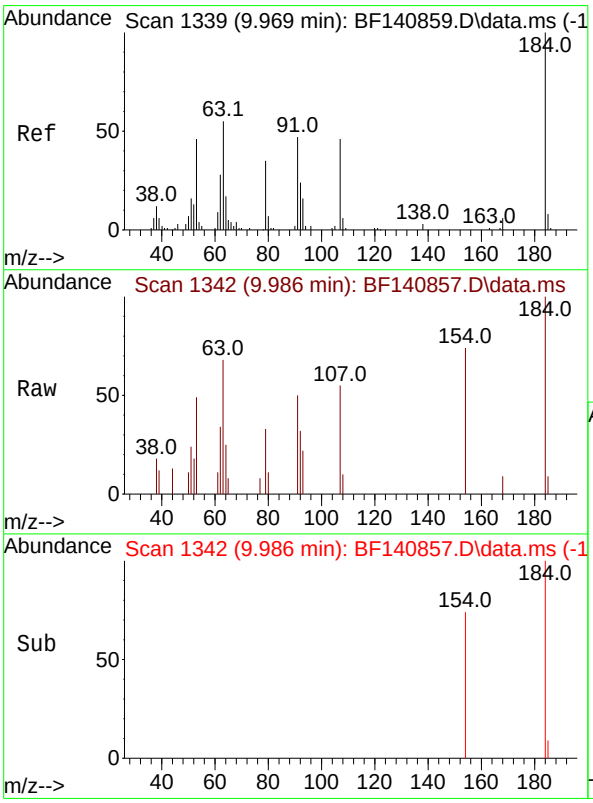
#53
3-Nitroaniline
Concen: 9.885 ng
RT: 9.845 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 30367

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	119.2	95.5	143.3

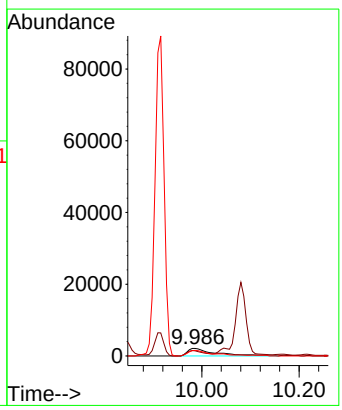


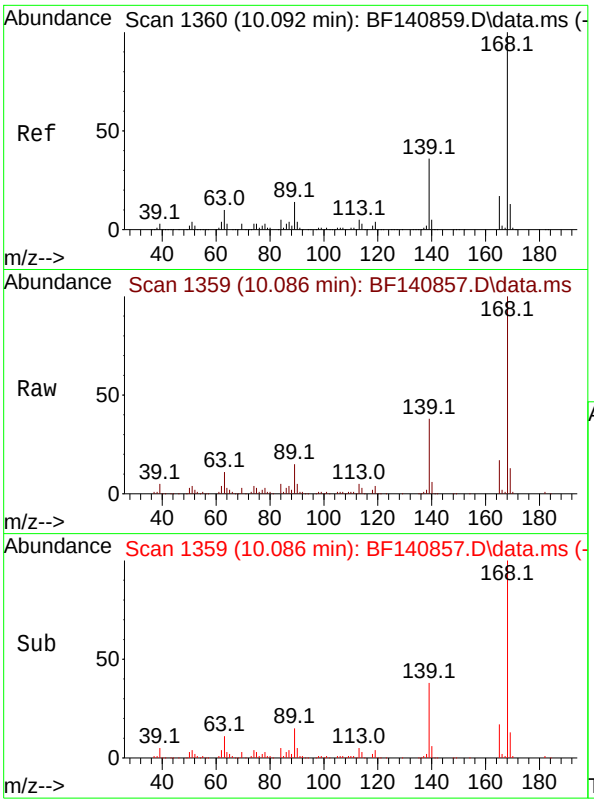


#54
2,4-Dinitrophenol
Concen: 11.701 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.017 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:184 Resp: 8488

Ion	Ratio	Lower	Upper
184	100		
63	67.8	51.6	77.4
154	74.2	56.1	84.1



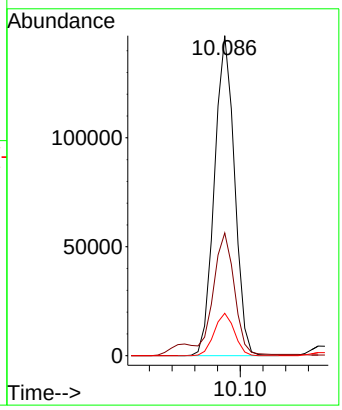


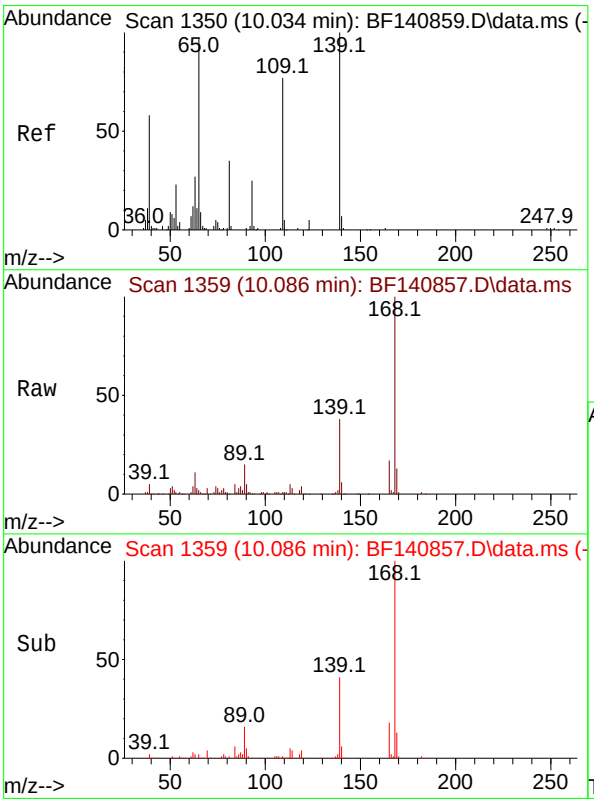
#55
Dibenzofuran
Concen: 10.598 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 180108

Ion	Ratio	Lower	Upper
168	100		
139	38.3	31.1	46.7
169	13.3	10.6	16.0

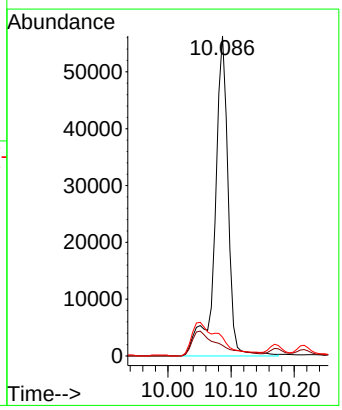


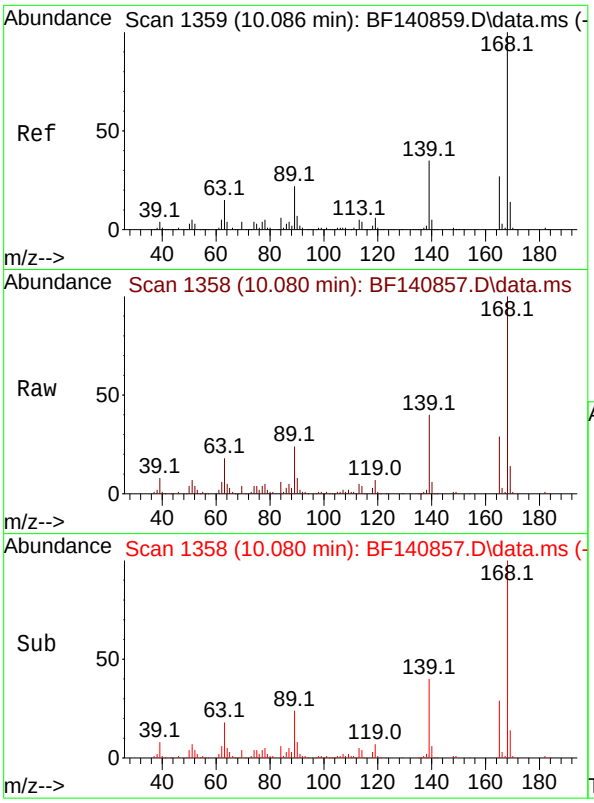


#56
4-Nitrophenol
Concen: 51.441 ng
RT: 10.086 min Scan# 1359
Delta R.T. 0.052 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:139 Resp: 82229

Ion	Ratio	Lower	Upper
139	100		
109	3.3	56.7	96.7#
65	5.8	78.1	118.1#



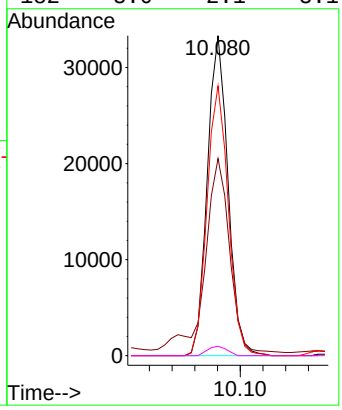


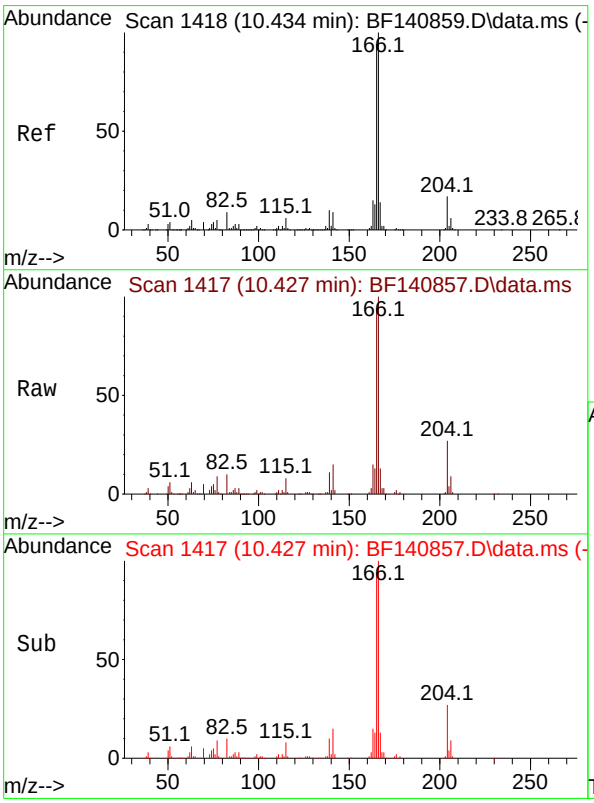
#57
2,4-Dinitrotoluene
Concen: 10.339 ng
RT: 10.080 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 42109

Ion	Ratio	Lower	Upper
165	100		
63	61.6	49.3	73.9
89	84.3	66.2	99.4
182	3.0	2.1	3.1

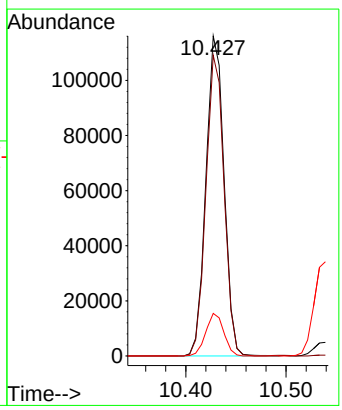


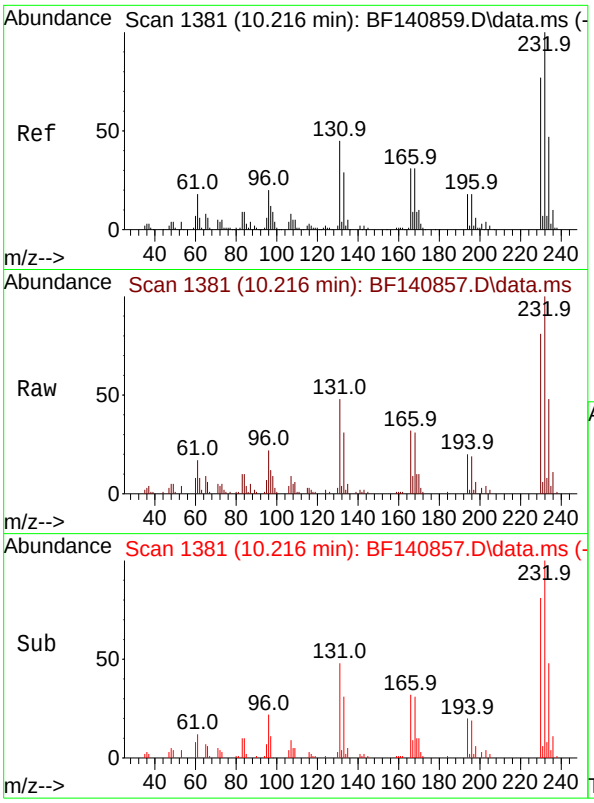


#58
Fluorene
Concen: 10.424 ng
RT: 10.427 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:166 Resp: 146155

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.1	112.7
167	13.3	11.1	16.7



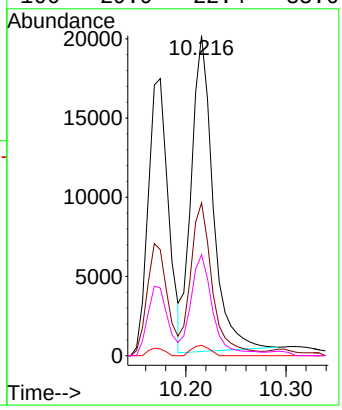


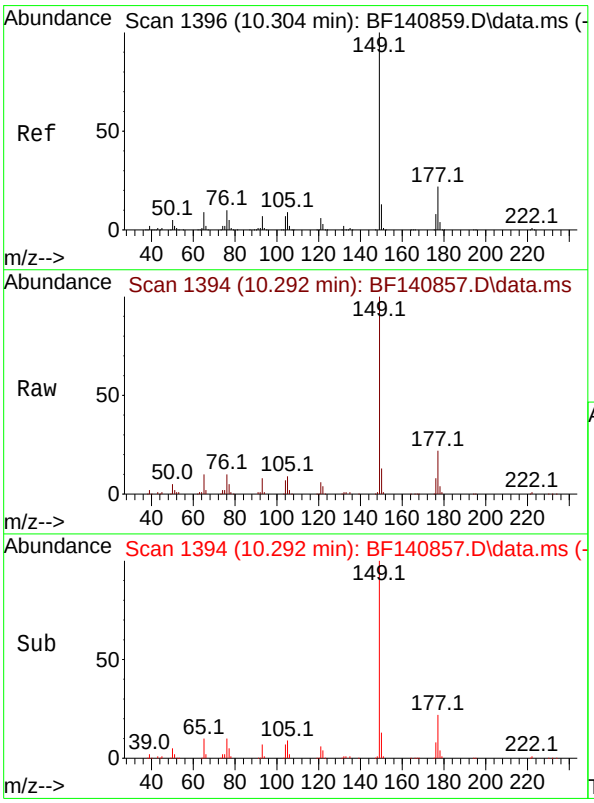
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.251 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 29950

Ion	Ratio	Lower	Upper
232	100		
131	48.8	35.1	52.7
130	2.7	1.8	2.8
166	29.9	22.4	33.6

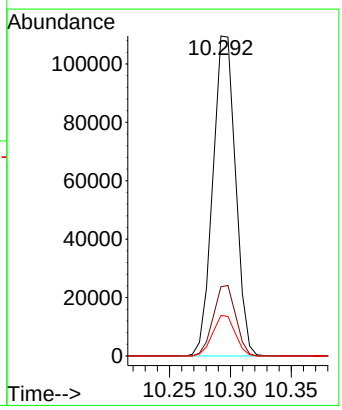


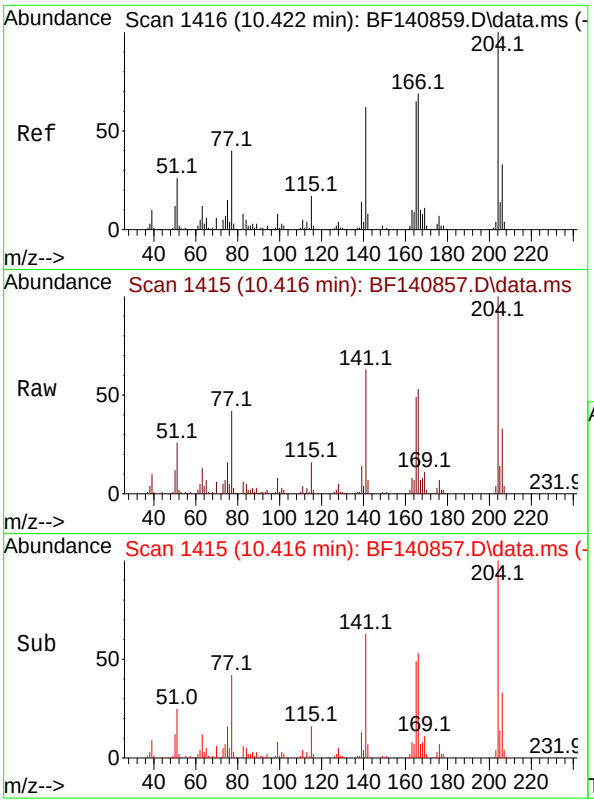


#60
Diethylphthalate
Concen: 10.147 ng
RT: 10.292 min Scan# 1394
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 142484

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.2	25.8
150	12.7	10.1	15.1



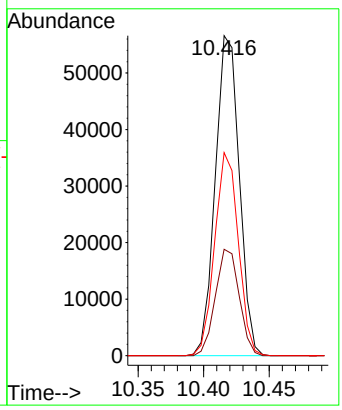


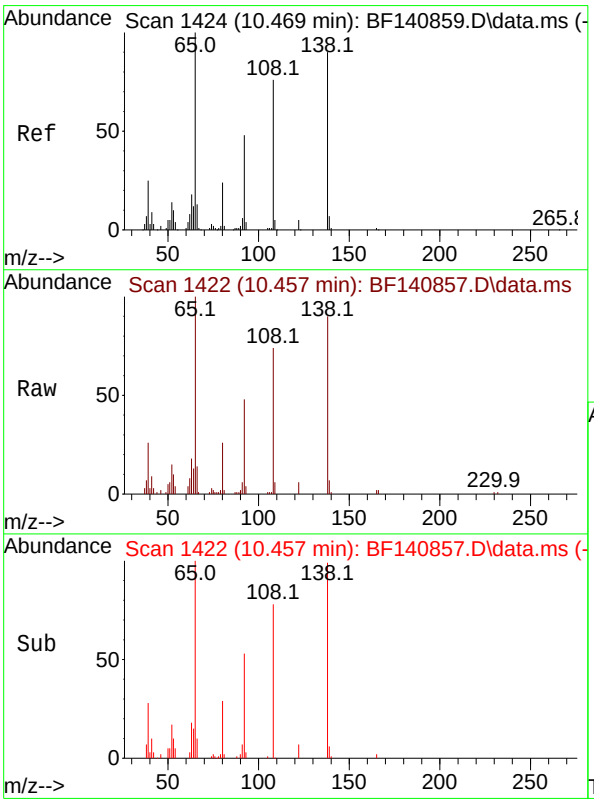
#61
4-Chlorophenyl-phenylether
Concen: 10.224 ng
RT: 10.416 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 72010

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.5	39.7
141	63.4	50.0	75.0

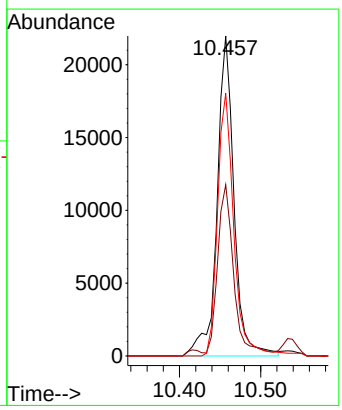


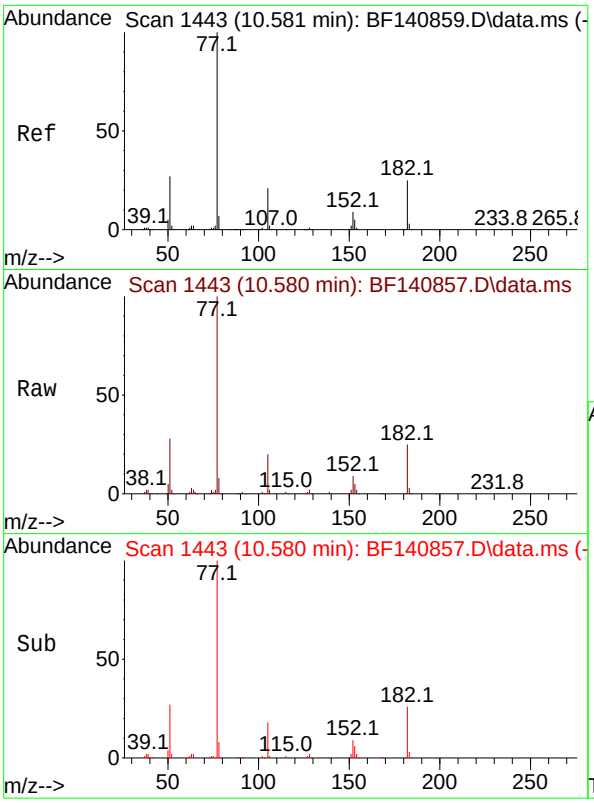


#62
4-Nitroaniline
Concen: 9.956 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:138 Resp: 31962

Ion	Ratio	Lower	Upper
138	100		
92	53.5	32.6	72.6
108	82.1	64.1	104.1



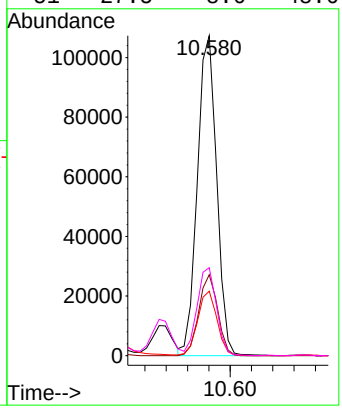


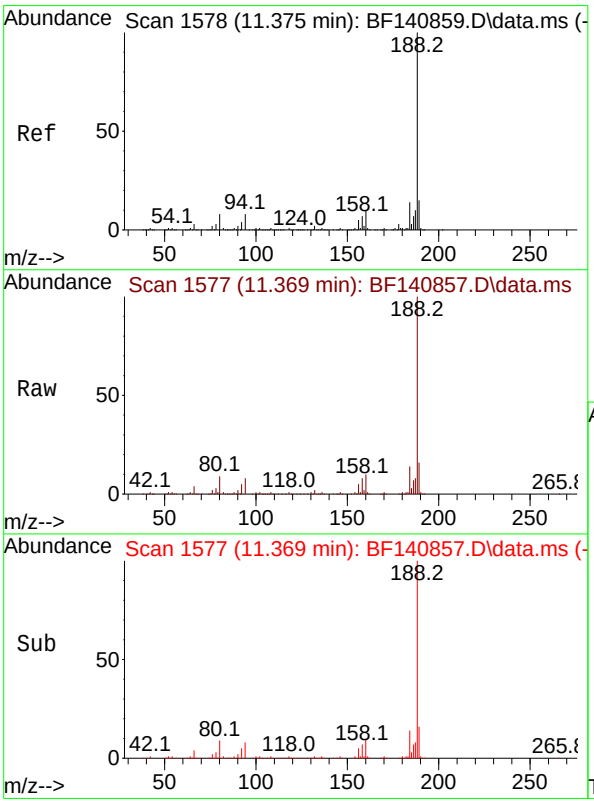
#63
Azobenzene
Concen: 10.267 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 135524

Ion	Ratio	Lower	Upper
77	100		
182	25.3	4.5	44.5
105	20.1	0.9	40.9
51	27.5	8.6	48.6

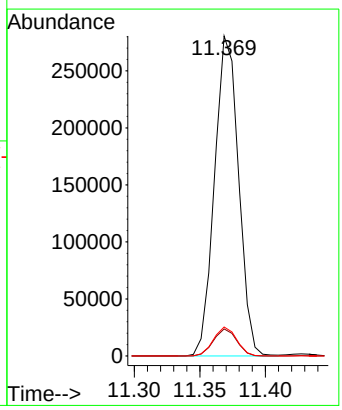


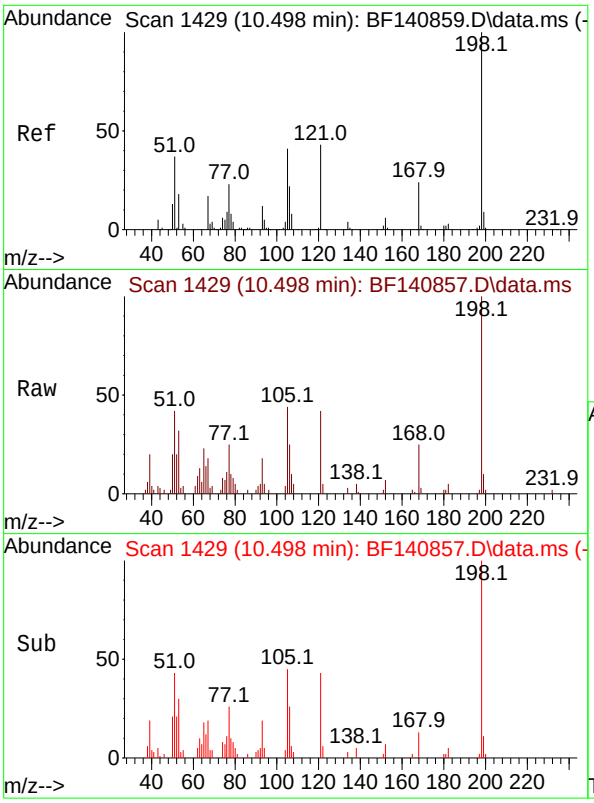


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:188 Resp: 358020

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	9.1	6.8	10.2



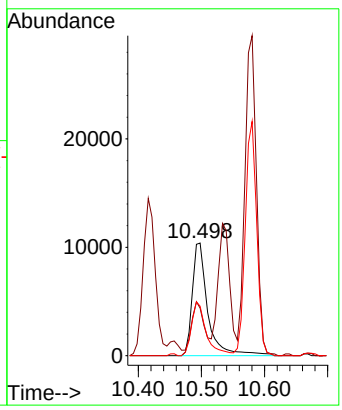


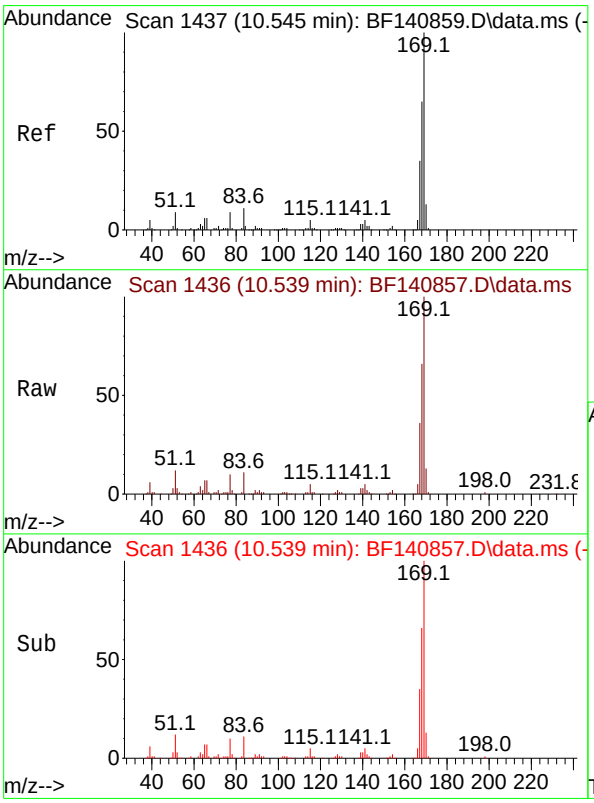
#65
4,6-Dinitro-2-methylphenol
Concen: 8.752 ng
RT: 10.498 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 17756

Ion	Ratio	Lower	Upper
198	100		
51	42.2	24.4	64.4
105	43.9	22.1	62.1

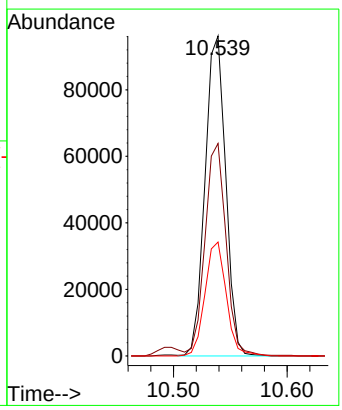


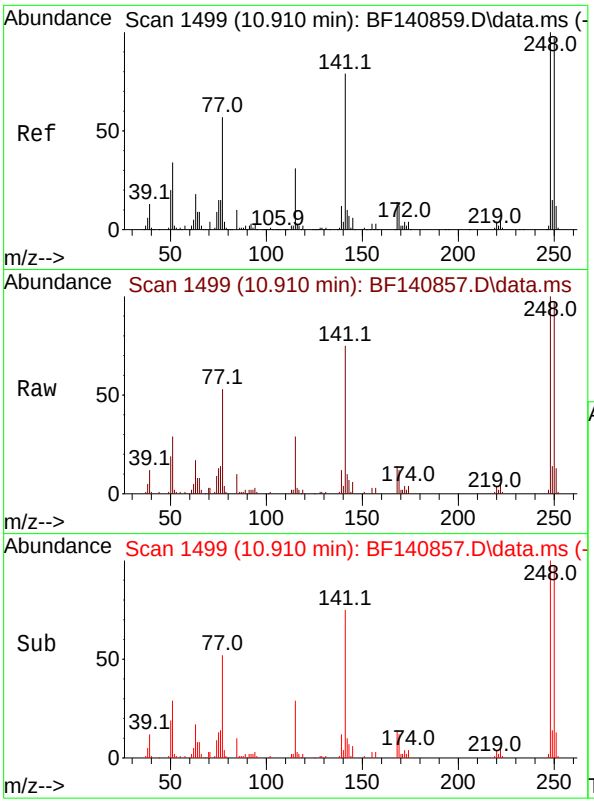


#66
n-Nitrosodiphenylamine
Concen: 11.038 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:169 Resp: 121500

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.4	80.0
167	35.6	28.3	42.5



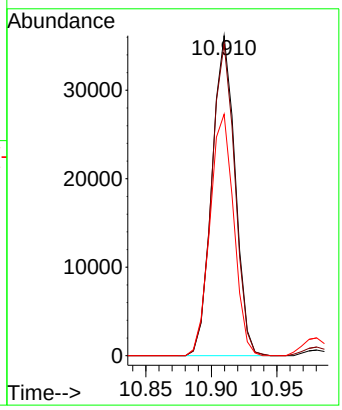


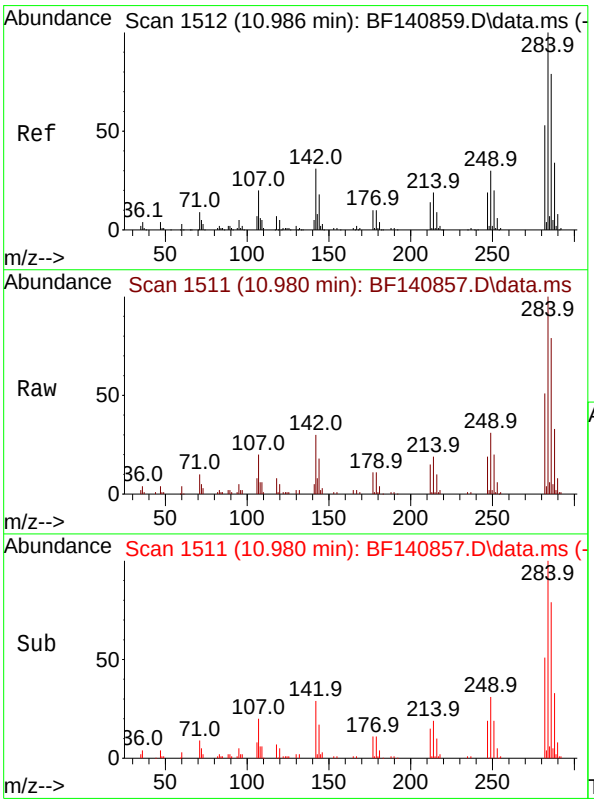
#67
4-Bromophenyl-phenylether
Concen: 11.082 ng
RT: 10.910 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 44385

Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.4	116.2
141	75.5	62.9	94.3

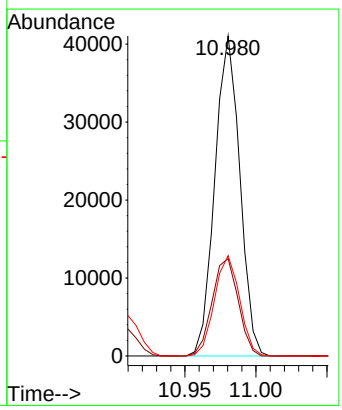


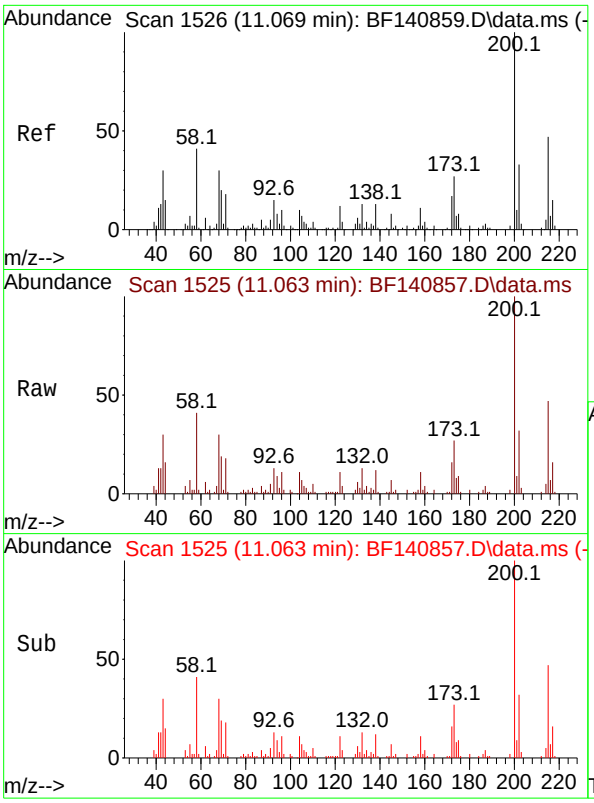


#68
Hexachlorobenzene
Concen: 11.040 ng
RT: 10.980 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:284 Resp: 50135

Ion	Ratio	Lower	Upper
284	100		
142	30.4	24.6	36.8
249	31.3	24.3	36.5



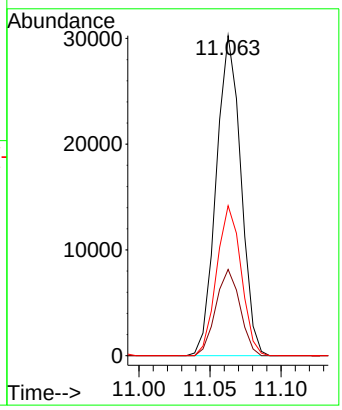


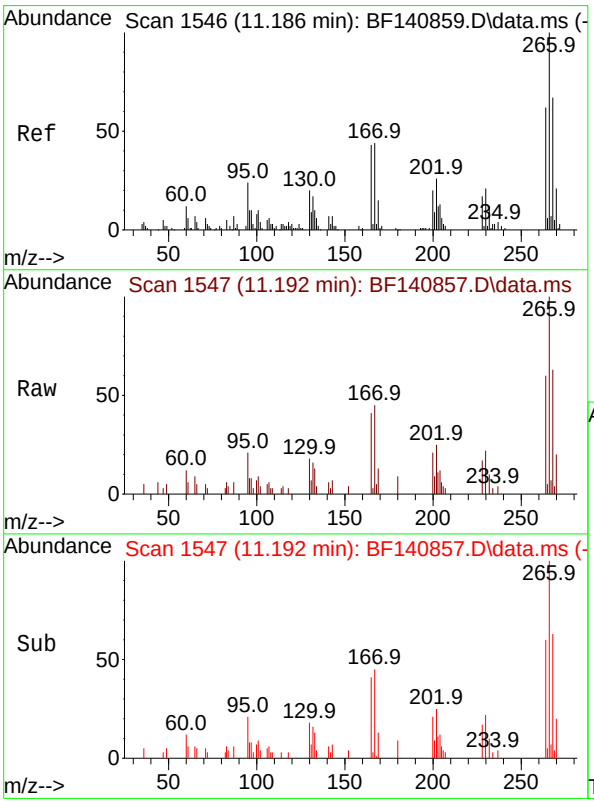
#69
Atrazine
Concen: 11.864 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 36472

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.6	46.6
215	46.8	26.7	66.7

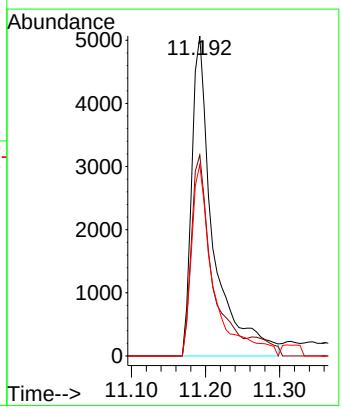


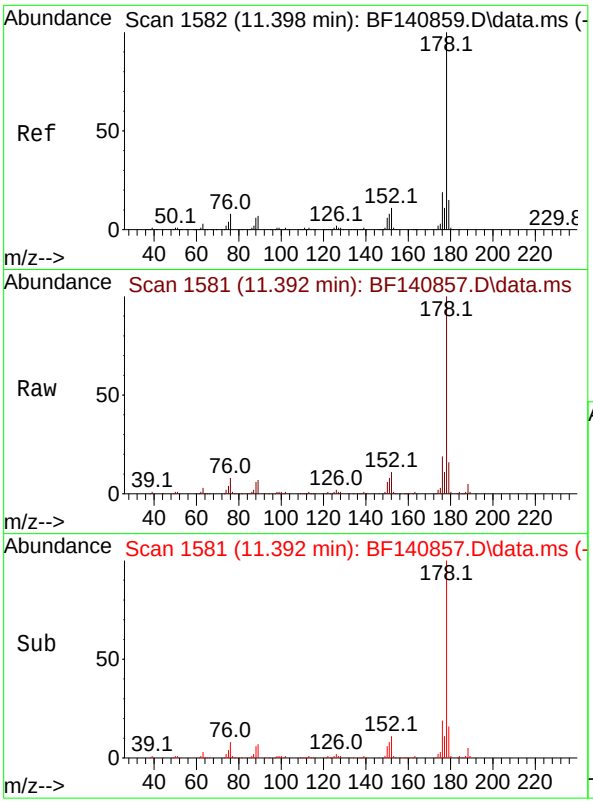


#70
Pentachlorophenol
Concen: 6.158 ng
RT: 11.192 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:266 Resp: 10230

Ion	Ratio	Lower	Upper
266	100		
268	62.8	54.0	81.0
264	59.7	49.4	74.2



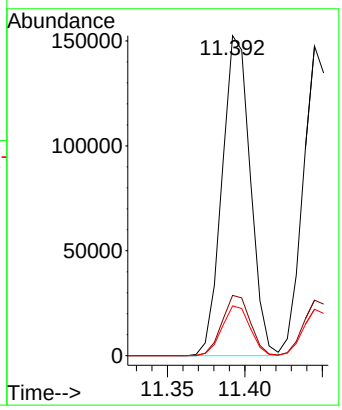


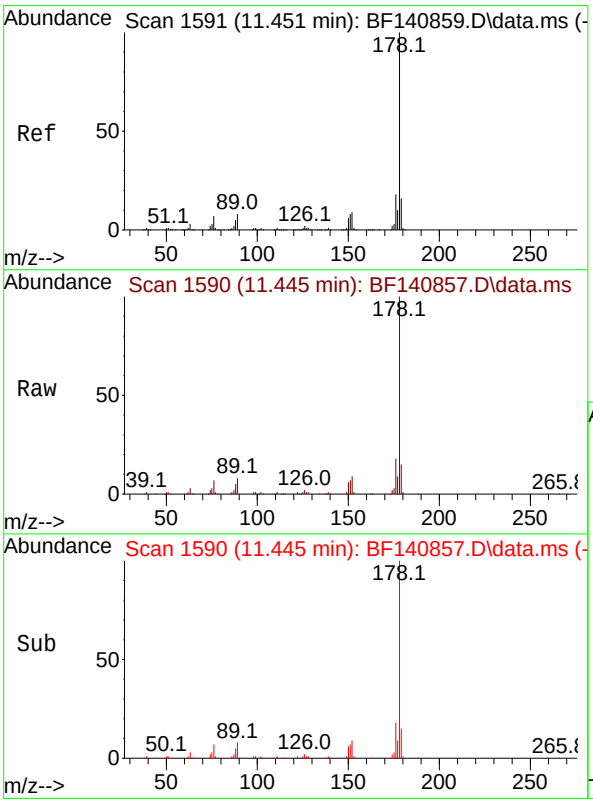
#71
Phenanthrene
Concen: 10.510 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 193504

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.6	12.1	18.1

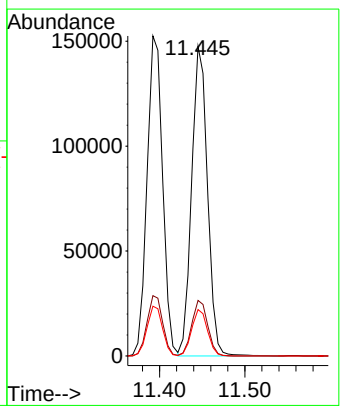


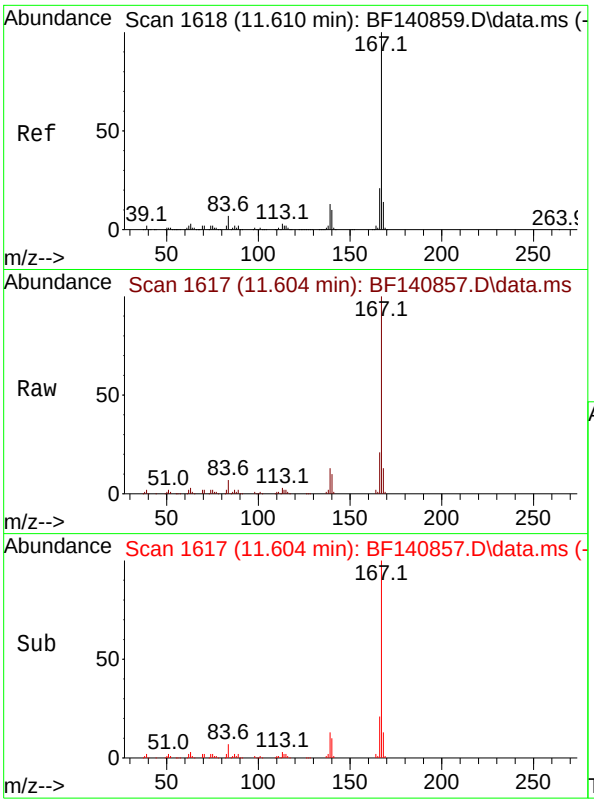


#72
Anthracene
Concen: 10.502 ng
RT: 11.445 min Scan# 1590
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:178 Resp: 190407

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	22.0
179	15.0	12.6	18.8



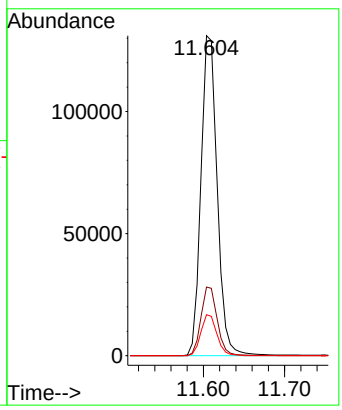


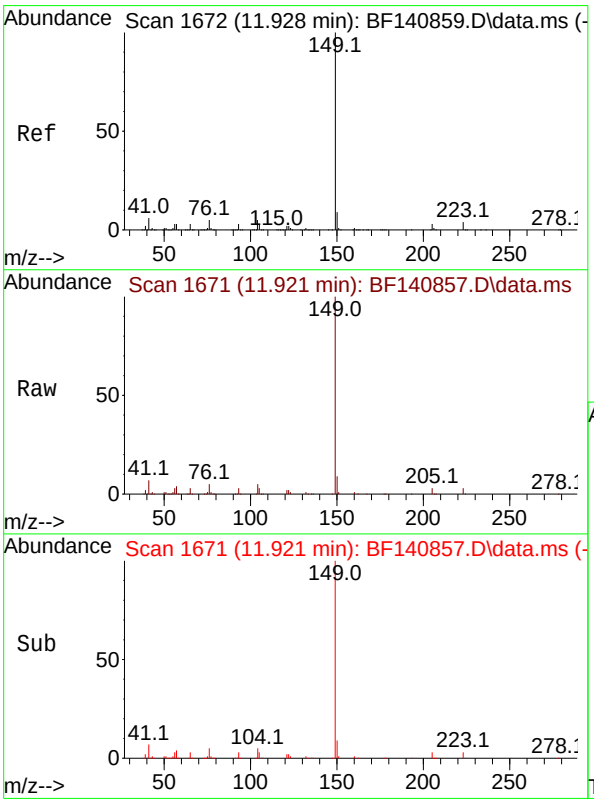
#73
Carbazole
Concen: 10.259 ng
RT: 11.604 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 182199

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	12.8	10.2	15.2

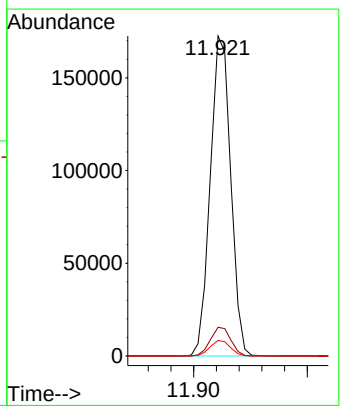


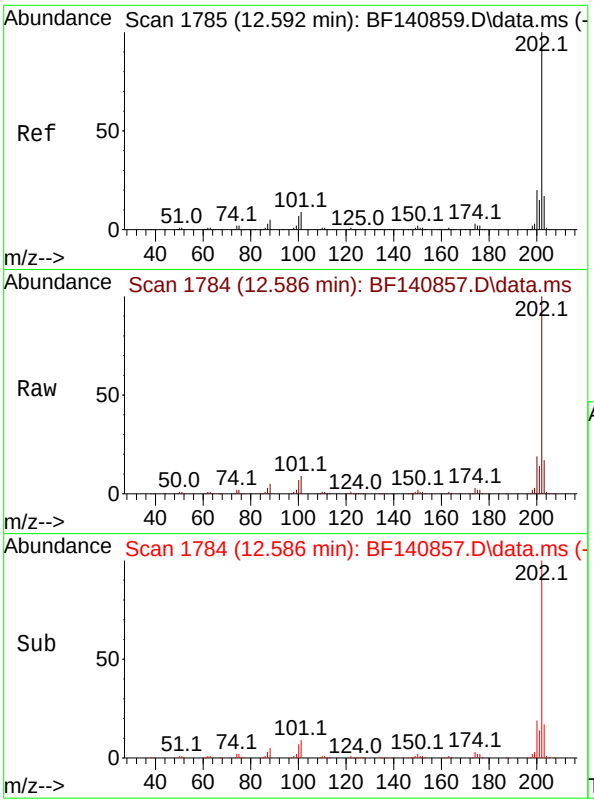


#74
Di-n-butylphthalate
Concen: 10.359 ng
RT: 11.921 min Scan# 1671
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 215903

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.5	11.3
104	4.9	3.8	5.8



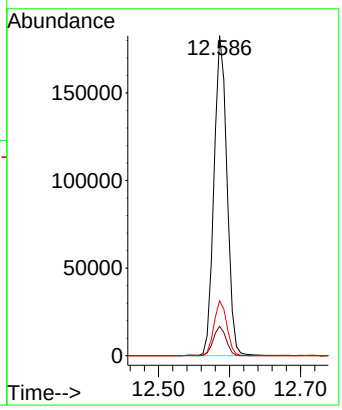


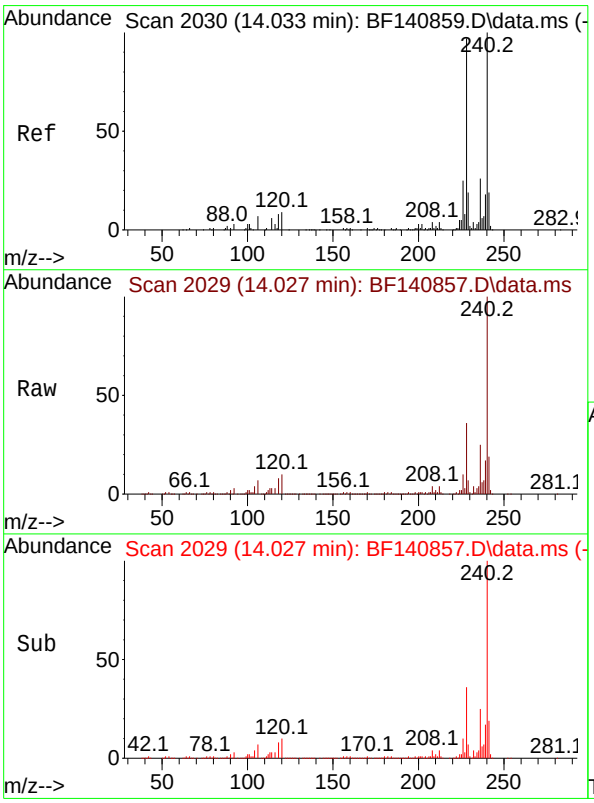
#75
Fluoranthene
Concen: 10.896 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 231038

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.3
203	17.1	0.0	37.4

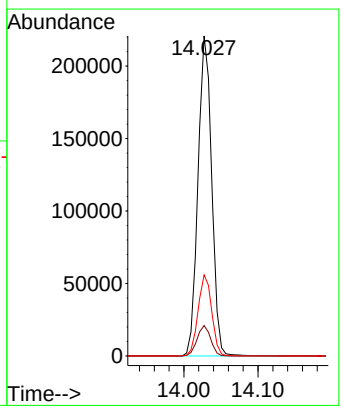


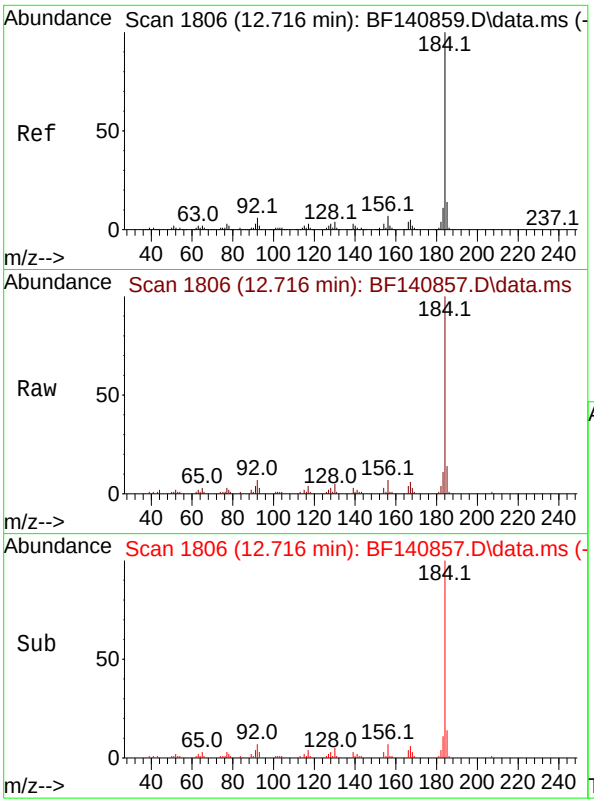


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:240 Resp: 282501

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.6	11.4
236	25.3	20.5	30.7



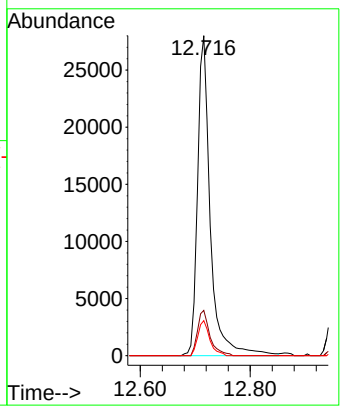


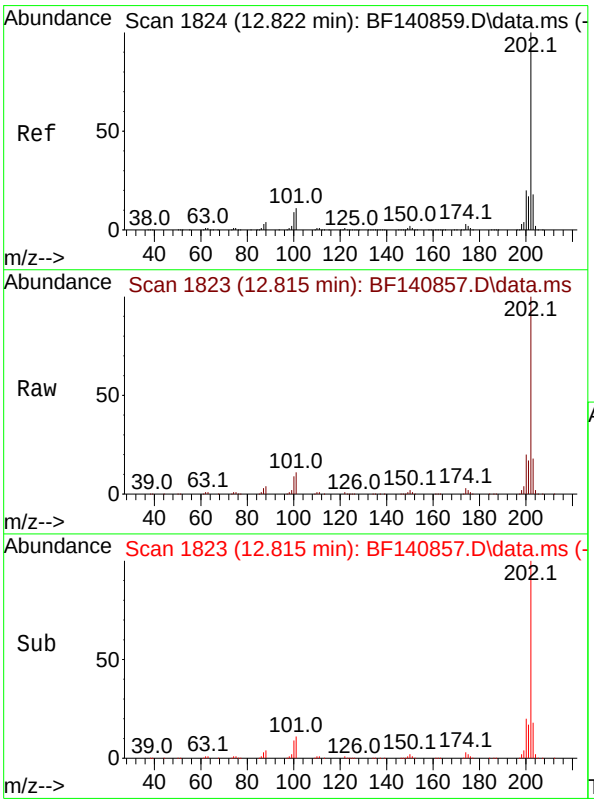
#77
Benzidine
Concen: 7.818 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 45074

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.1	16.7
183	11.0	9.0	13.4

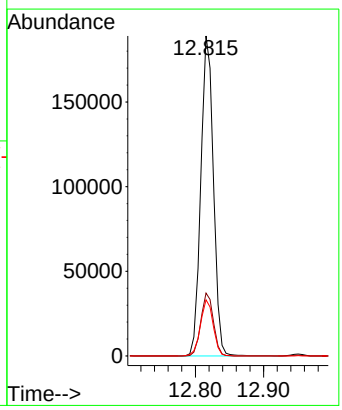


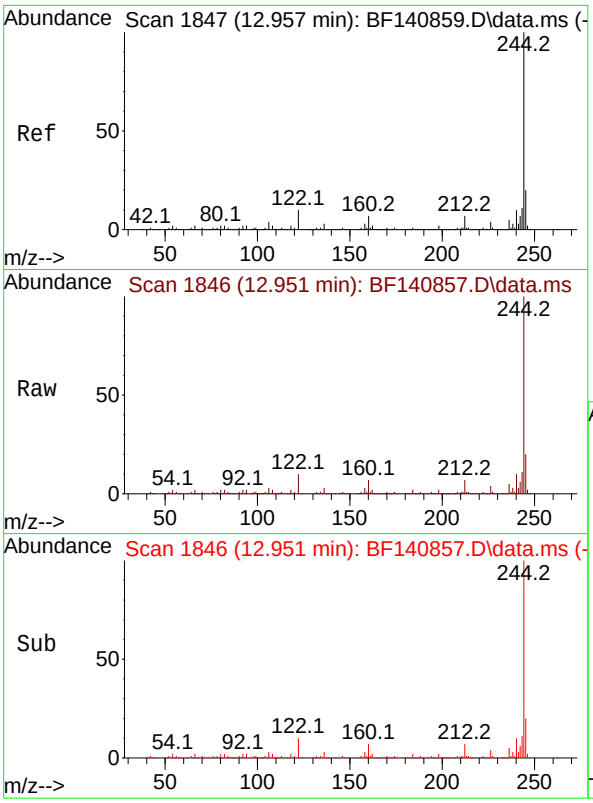


#78
Pyrene
Concen: 9.663 ng
RT: 12.815 min Scan# 1823
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:202 Resp: 242761

Ion	Ratio	Lower	Upper
202	100		
200	19.6	16.1	24.1
203	17.5	14.2	21.4



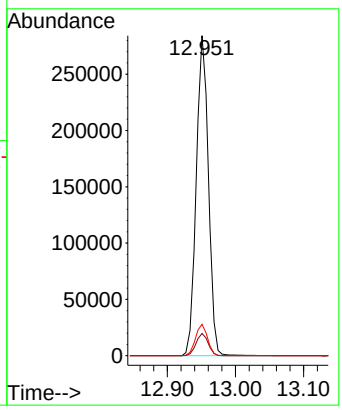


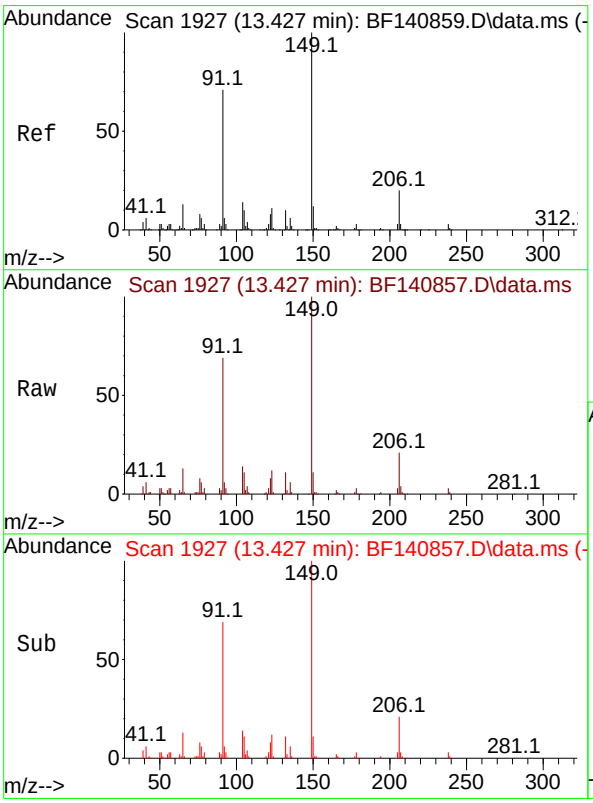
#79
Terphenyl-d14
Concen: 19.670 ng
RT: 12.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 352398

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.8	8.2	12.2

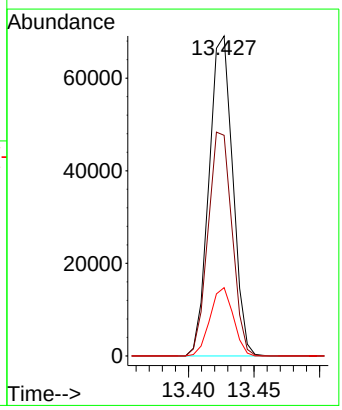


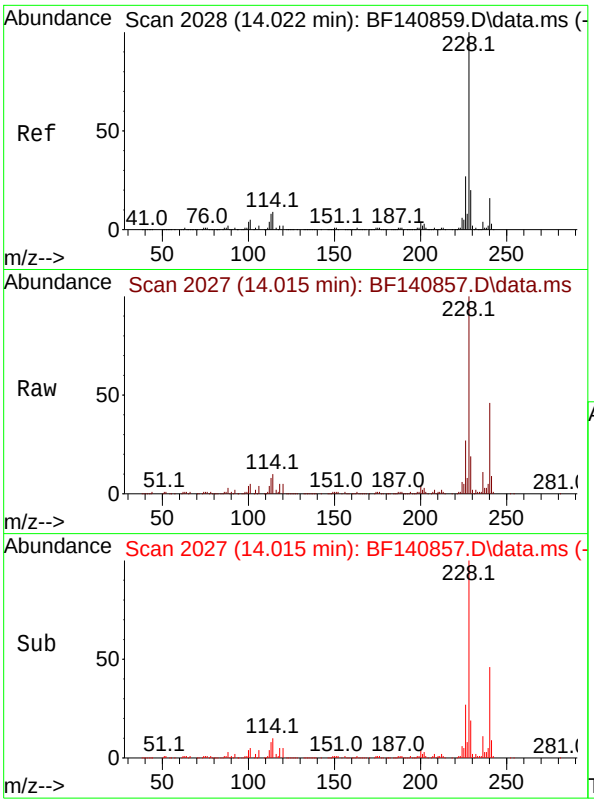


#80
Butylbenzylphthalate
Concen: 9.411 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 86987

Ion	Ratio	Lower	Upper
149	100		
91	69.0	56.7	85.1
206	21.4	16.4	24.6



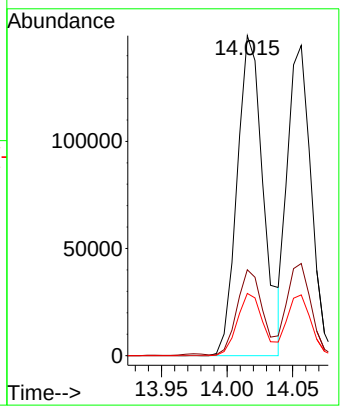


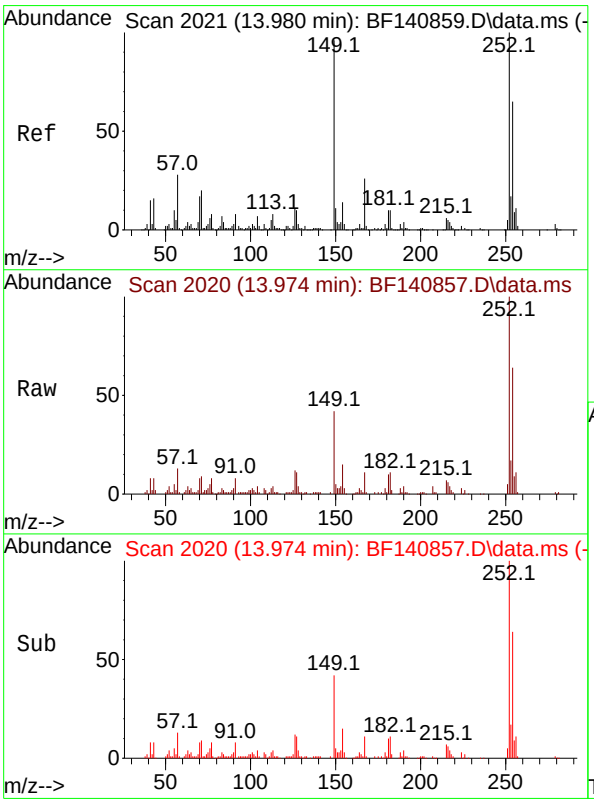
#81
Benzo(a)anthracene
Concen: 10.395 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 208127

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.5	15.8	23.8

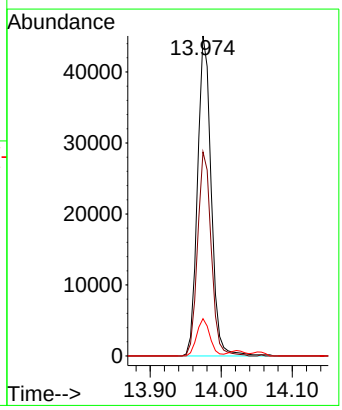


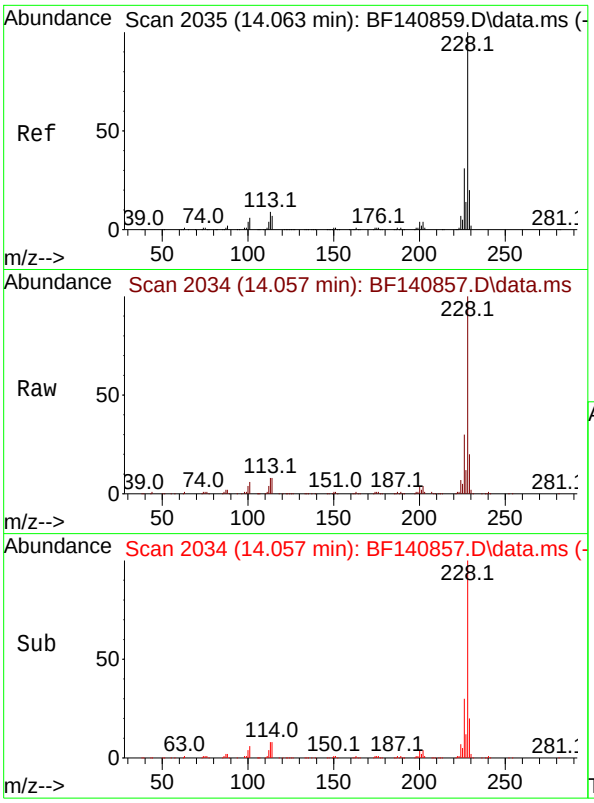


#82
3,3'-Dichlorobenzidine
Concen: 9.994 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:252 Resp: 60368

Ion	Ratio	Lower	Upper
252	100		
254	63.7	52.3	78.5
126	11.7	8.4	12.6



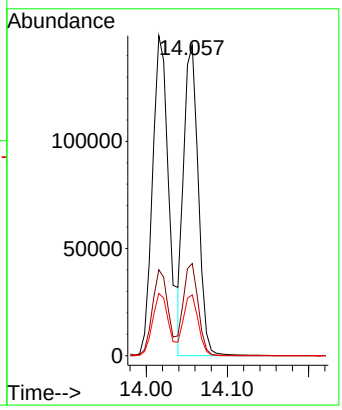


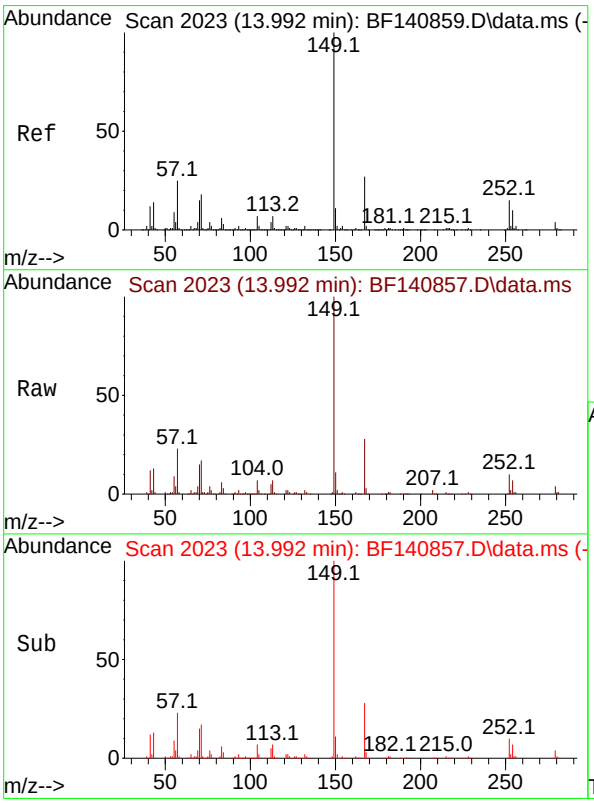
#83
Chrysene
Concen: 9.963 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 181387

Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	19.6	16.0	24.0

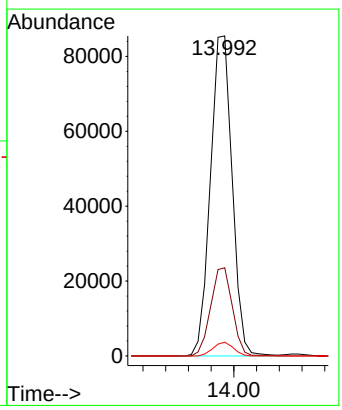


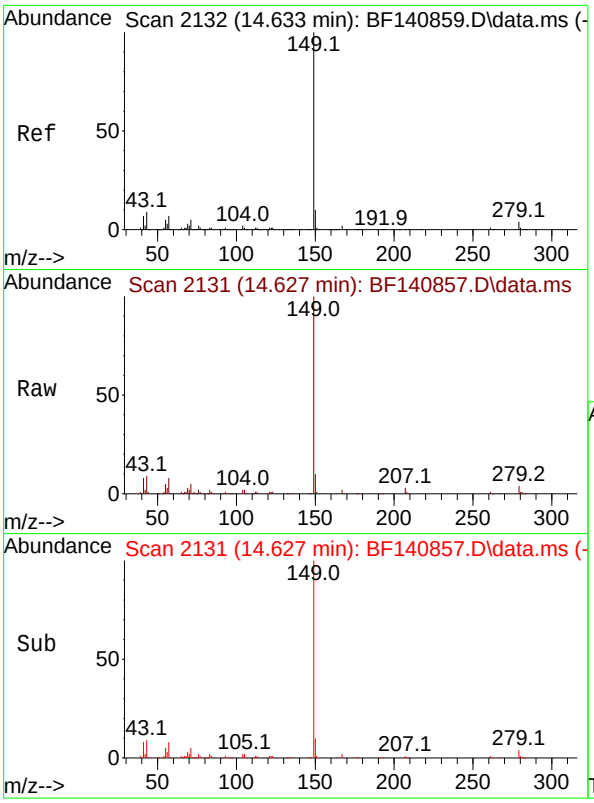


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.562 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:149 Resp: 113963

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.8	32.8
279	4.3	3.5	5.3



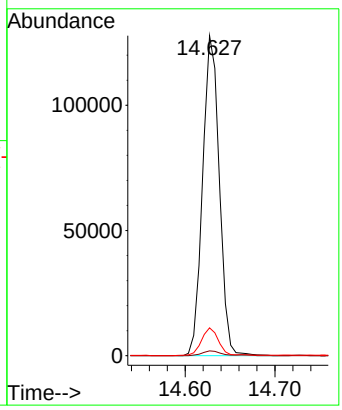


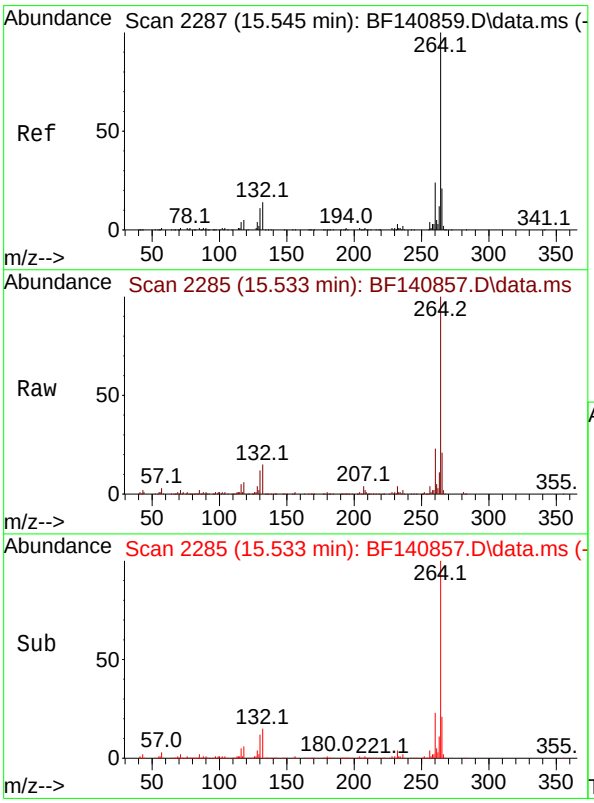
#85
Di-n-octyl phthalate
Concen: 9.161 ng
RT: 14.627 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 165198

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.1	7.0	10.6

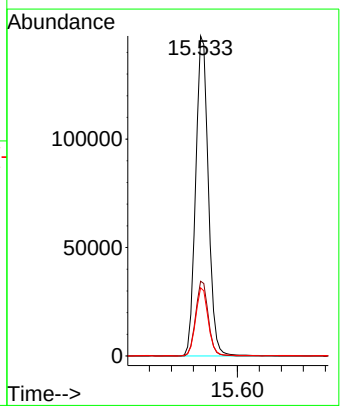


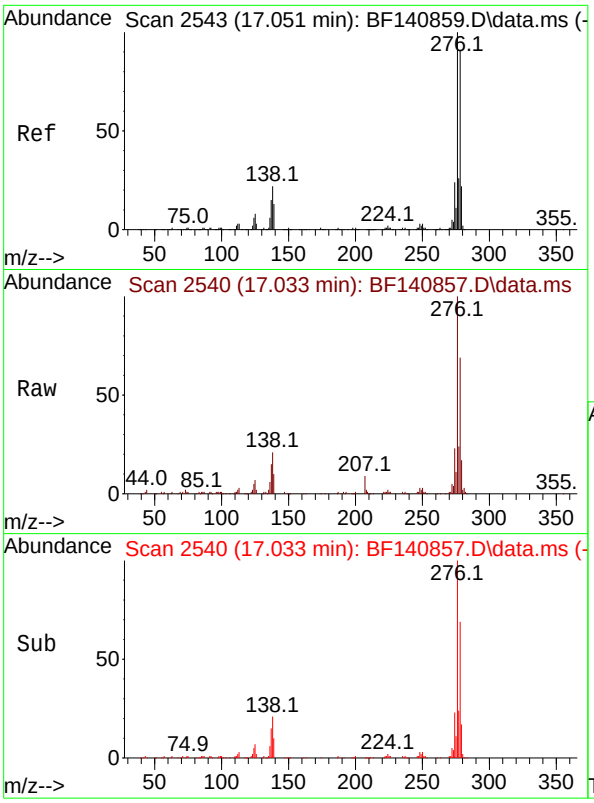


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:264 Resp: 236486

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.3	17.0	25.4



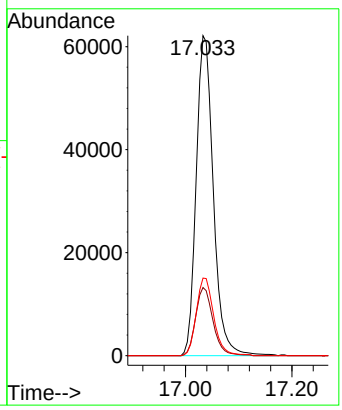


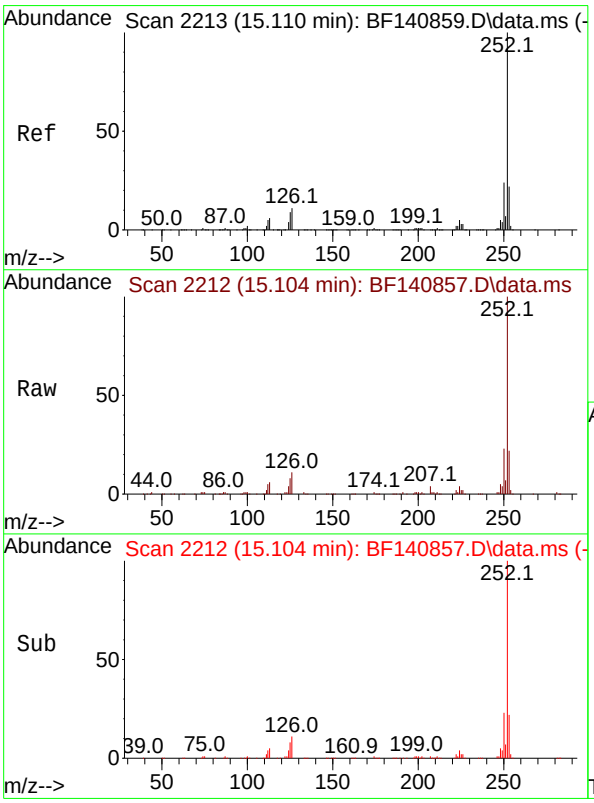
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.405 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 138792

Ion	Ratio	Lower	Upper
276	100		
138	21.6	16.9	25.3
277	24.7	20.2	30.4

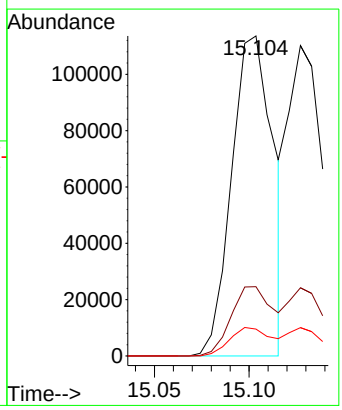


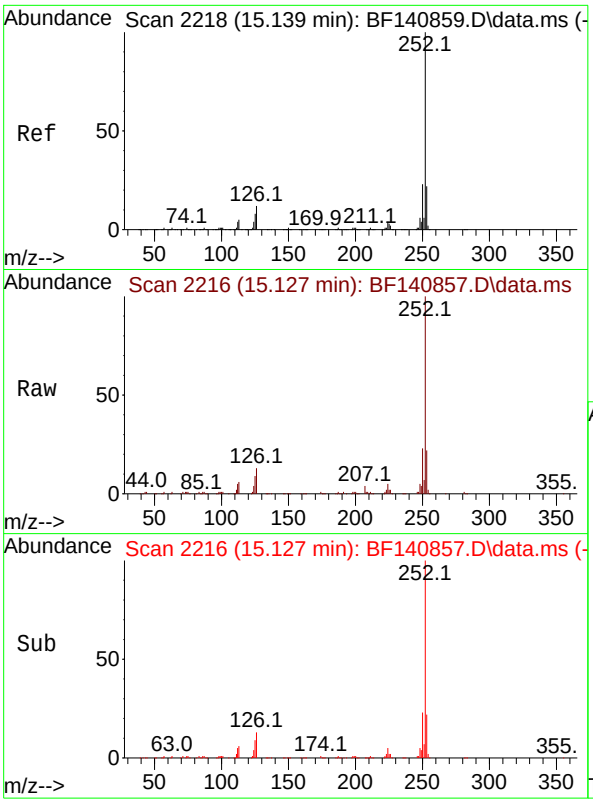


#88
Benzo(b)fluoranthene
Concen: 10.558 ng
RT: 15.104 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:252 Resp: 173313

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	8.4	7.0	10.4



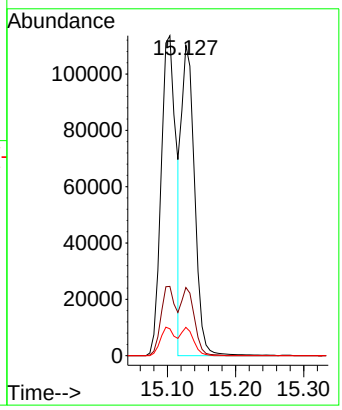


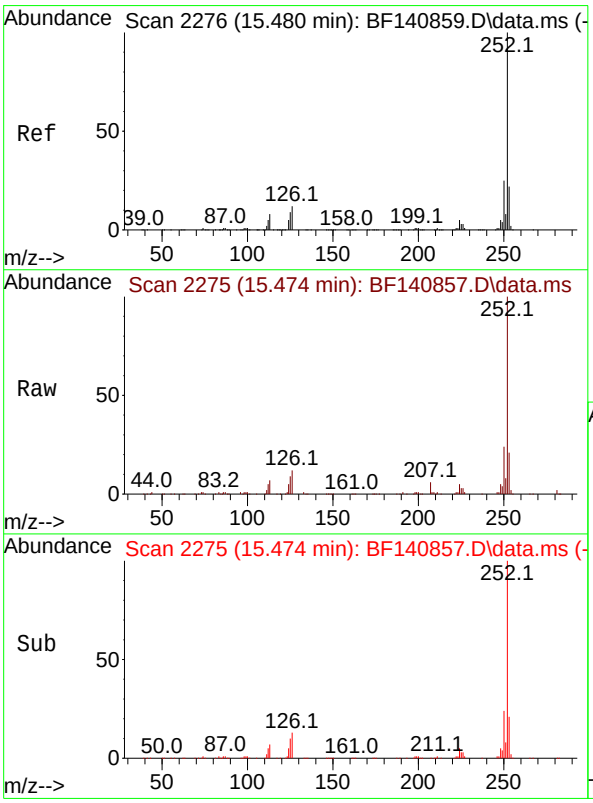
#89
Benzo(k)fluoranthene
Concen: 10.499 ng
RT: 15.127 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 147840

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.1	6.8	10.2

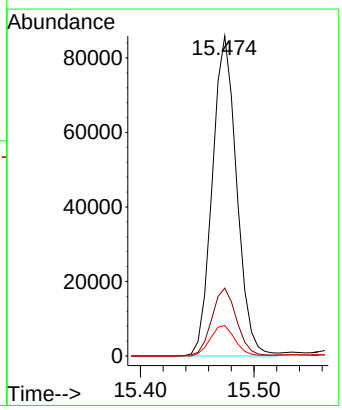


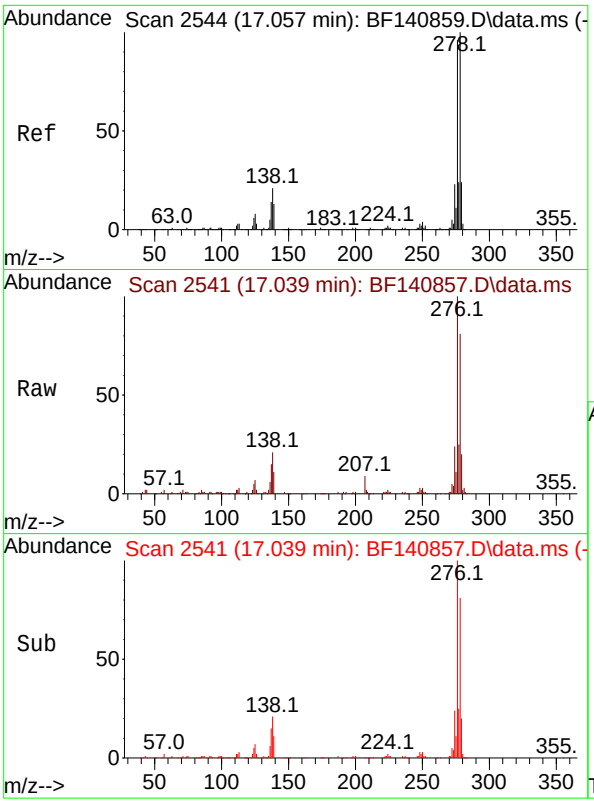


#90
Benzo(a)pyrene
Concen: 9.973 ng
RT: 15.474 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:252 Resp: 128194

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.5	26.3
125	9.5	7.5	11.3



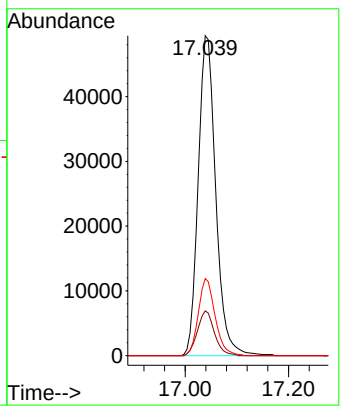


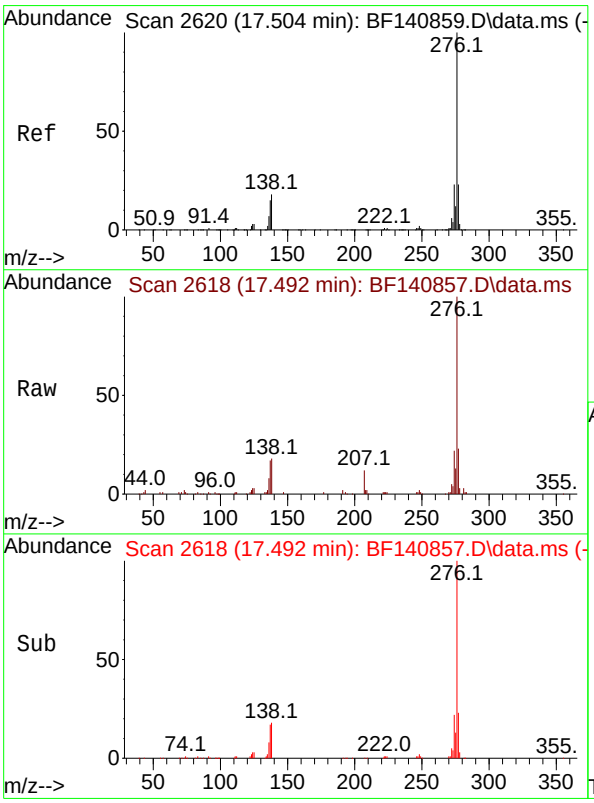
#91
Dibenzo(a,h)anthracene
Concen: 9.532 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 116533

Ion	Ratio	Lower	Upper
278	100		
139	14.0	10.6	16.0
279	24.1	19.2	28.8

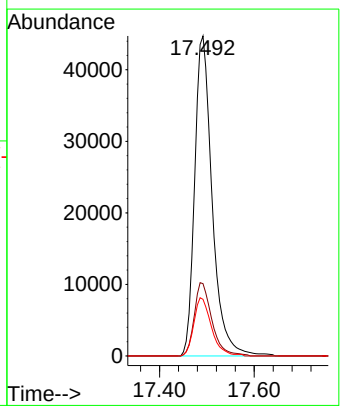




#92
Benzo(g,h,i)perylene
Concen: 9.240 ng
RT: 17.492 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF140857.D
Acq: 16 Dec 2024 13:05

Tgt Ion:276 Resp: 114976

Ion	Ratio	Lower	Upper
276	100		
277	22.6	18.7	28.1
138	17.7	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140858.D
Acq On : 16 Dec 2024 14:00
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Dec 16 16:48:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.846	152	71395	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	269448	20.000	ng		0.00
39) Acenaphthene-d10	9.881	164	153586	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	299699	20.000	ng		0.00
76) Chrysene-d12	14.039	240	234229	20.000	ng		0.00
86) Perylene-d12	15.563	264	220576	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	182586	42.100	ng		0.00
7) Phenol-d6	6.493	99	237156	41.285	ng		0.00
23) Nitrobenzene-d5	7.410	82	226356	42.030	ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	74311	40.909	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	472330	42.281	ng		0.00
79) Terphenyl-d14	12.957	244	570640	38.416	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.622	88	38355	20.532	ng		96
3) Pyridine	3.405	79	91704	21.197	ng		99
4) n-Nitrosodimethylamine	3.340	42	44712	20.501	ng		97
6) Aniline	6.516	93	103355	21.043	ng	#	81
8) 2-Chlorophenol	6.640	128	96909	20.490	ng		98
9) Benzaldehyde	6.404	77	70862	22.263	ng		98
10) Phenol	6.510	94	123728	20.782	ng		90
11) bis(2-Chloroethyl)ether	6.581	93	91473	20.602	ng		98
12) 1,3-Dichlorobenzene	6.787	146	111145	20.624	ng		99
13) 1,4-Dichlorobenzene	6.863	146	113006	20.658	ng		98
14) 1,2-Dichlorobenzene	7.016	146	107719	20.870	ng		97
15) Benzyl Alcohol	6.998	79	88251	21.487	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.122	45	108472	20.739	ng		89
17) 2-Methylphenol	7.110	107	77132	20.427	ng		97
18) Hexachloroethane	7.351	117	41766	20.509	ng		97
19) n-Nitroso-di-n-propyla...	7.257	70	71344	20.705	ng		100
20) 3+4-Methylphenols	7.269	107	102814	20.534	ng	#	88
22) Acetophenone	7.257	105	140187	20.798	ng		98
24) Nitrobenzene	7.434	77	114486	20.750	ng		98
25) Isophorone	7.669	82	185900	20.601	ng		100
26) 2-Nitrophenol	7.751	139	52133	20.516	ng		99
27) 2,4-Dimethylphenol	7.787	122	60750	20.471	ng		98
28) bis(2-Chloroethoxy)met...	7.875	93	115605	20.512	ng		98
29) 2,4-Dichlorophenol	7.998	162	84299	20.575	ng		99
30) 1,2,4-Trichlorobenzene	8.069	180	96194	20.481	ng		99
31) Naphthalene	8.151	128	303425	20.500	ng		99
32) Benzoic acid	7.910	122	51770	18.394	ng		97
33) 4-Chloroaniline	8.204	127	101583	20.664	ng		99
34) Hexachlorobutadiene	8.263	225	65803	20.824	ng		99
35) Caprolactam	8.569	113	24344	19.958	ng		98
36) 4-Chloro-3-methylphenol	8.693	107	93611	20.300	ng		98
37) 2-Methylnaphthalene	8.840	142	199492	20.375	ng		100
38) 1-Methylnaphthalene	8.940	142	193053	19.937	ng		100
40) 1,2,4,5-Tetrachloroben...	9.004	216	98517	20.869	ng		99
41) Hexachlorocyclopentadiene	8.987	237	18486	21.391	ng		99
43) 2,4,6-Trichlorophenol	9.128	196	59284	20.509	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140858.D
Acq On : 16 Dec 2024 14:00
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Dec 16 16:48:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

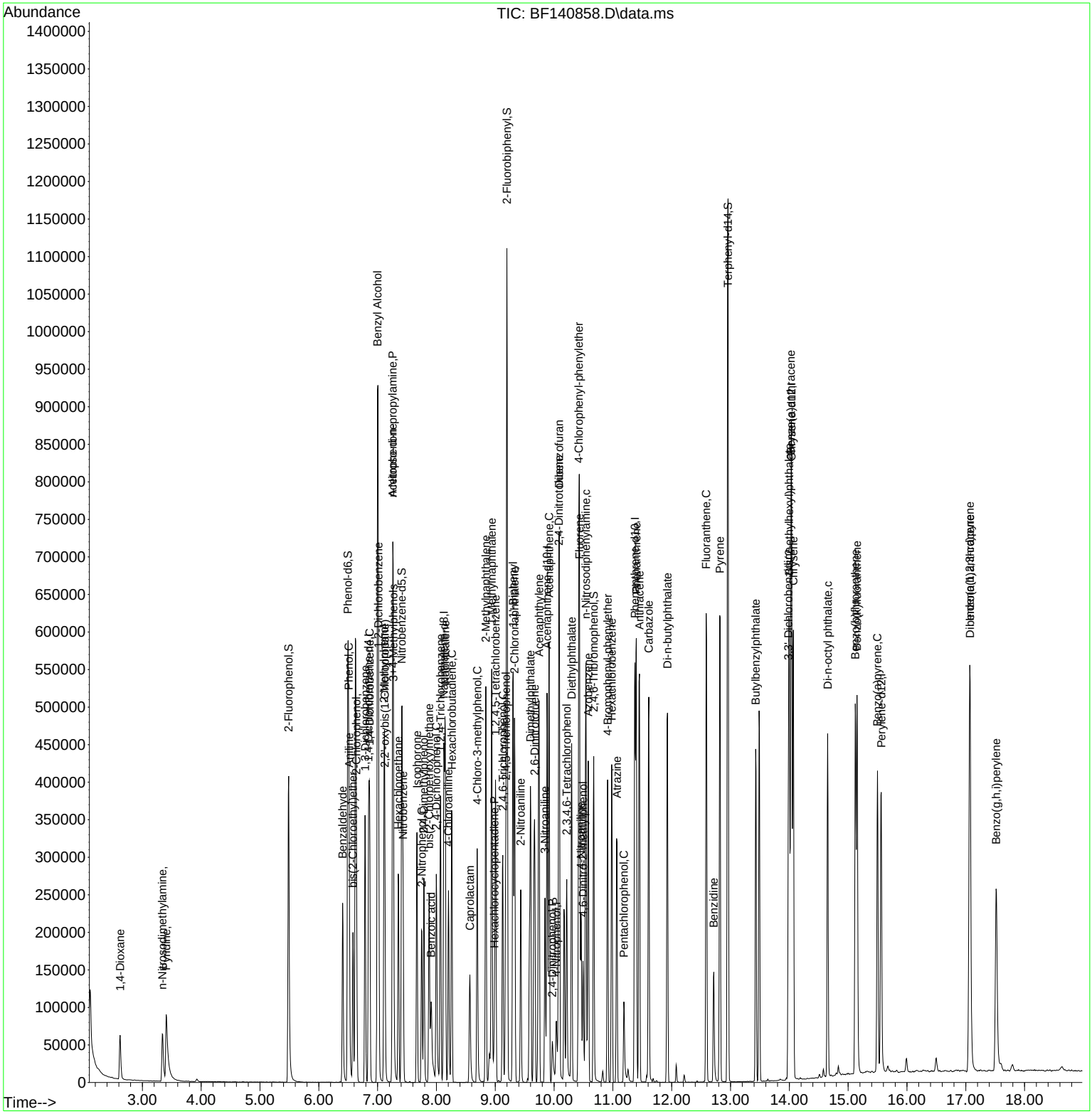
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	65450	20.600	ng	99
46) 1,1'-Biphenyl	9.304	154	251662	20.606	ng	98
47) 2-Chloronaphthalene	9.328	162	192611	20.615	ng	98
48) 2-Nitroaniline	9.434	65	57140	20.250	ng	99
49) Acenaphthylene	9.745	152	288710	21.027	ng	99
50) Dimethylphthalate	9.598	163	220880	20.399	ng	99
51) 2,6-Dinitrotoluene	9.669	165	50302	20.321	ng	97
52) Acenaphthene	9.916	154	179112	20.422	ng	99
53) 3-Nitroaniline	9.845	138	50453	20.538	ng	100
54) 2,4-Dinitrophenol	9.969	184	16571	19.139	ng	96
55) Dibenzofuran	10.087	168	281092	20.683	ng	98
56) 4-Nitrophenol	10.039	139	20392	19.017	ng	90
57) 2,4-Dinitrotoluene	10.081	165	67570	20.746	ng	100
58) Fluorene	10.434	166	229160	20.439	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	52966	20.459	ng	98
60) Diethylphthalate	10.298	149	229798	20.466	ng	100
61) 4-Chlorophenyl-phenyle...	10.422	204	116545	20.693	ng	97
62) 4-Nitroaniline	10.457	138	52016	20.263	ng	97
63) Azobenzene	10.581	77	214137	20.286	ng	99
65) 4,6-Dinitro-2-methylph...	10.492	198	32520	19.149	ng	93
66) n-Nitrosodiphenylamine	10.539	169	192873	20.932	ng	100
67) 4-Bromophenyl-phenylether	10.910	248	70804	21.118	ng	99
68) Hexachlorobenzene	10.981	284	80189	21.095	ng	99
69) Atrazine	11.069	200	57872	22.488	ng	99
70) Pentachlorophenol	11.186	266	22401	16.109	ng	98
71) Phenanthrene	11.398	178	321392	20.854	ng	100
72) Anthracene	11.451	178	315664	20.798	ng	99
73) Carbazole	11.610	167	307615	20.692	ng	99
74) Di-n-butylphthalate	11.928	149	369257	21.164	ng	99
75) Fluoranthene	12.586	202	374894	21.122	ng	100
77) Benzidine	12.716	184	93986	19.660	ng	99
78) Pyrene	12.822	202	386539	18.558	ng	99
80) Butylbenzylphthalate	13.427	149	145401	18.972	ng	97
81) Benzo(a)anthracene	14.027	228	332845	20.050	ng	99
82) 3,3'-Dichlorobenzidine	13.986	252	105124	20.989	ng	97
83) Chrysene	14.069	228	319417	21.160	ng	99
84) Bis(2-ethylhexyl)phtha...	13.998	149	204953	20.740	ng	97
85) Di-n-octyl phthalate	14.651	149	315841	21.125	ng	99
87) Indeno(1,2,3-cd)pyrene	17.068	276	293402	21.315	ng	100
88) Benzo(b)fluoranthene	15.121	252	319848	20.890	ng	99
89) Benzo(k)fluoranthene	15.151	252	269871	20.548	ng	99
90) Benzo(a)pyrene	15.498	252	250110	20.861	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	240810	21.117	ng	99
92) Benzo(g,h,i)perylene	17.515	276	241228	20.785	ng	99

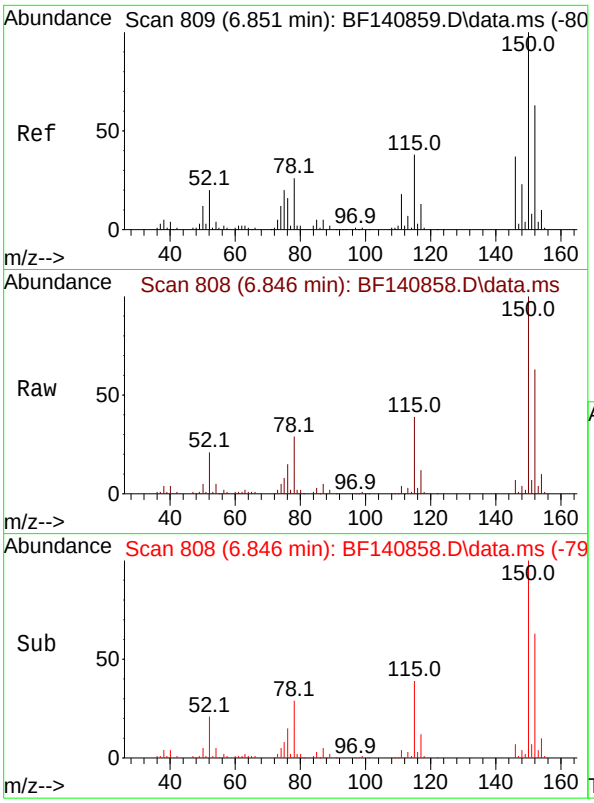
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140858.D
Acq On : 16 Dec 2024 14:00
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Dec 16 16:48:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



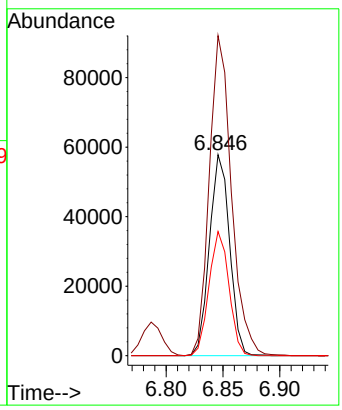


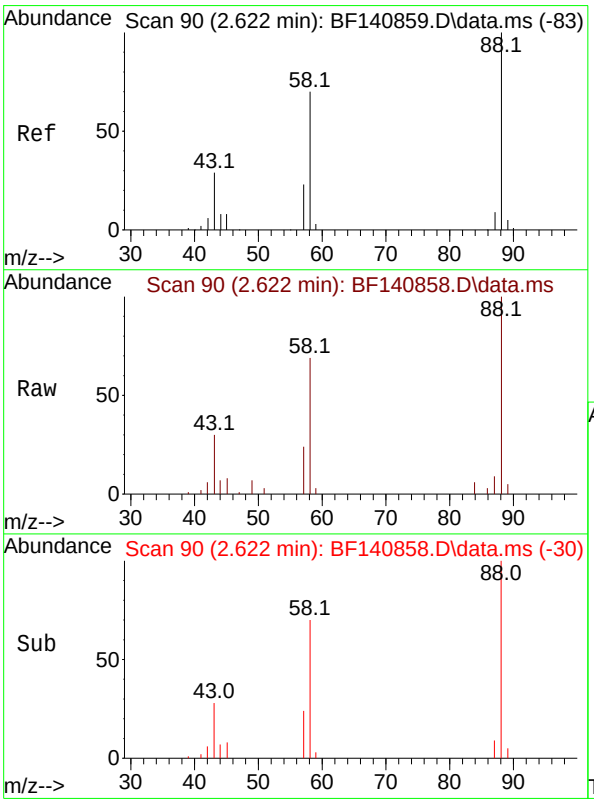
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.846 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 71395

Ion	Ratio	Lower	Upper
152	100		
150	159.2	127.9	191.9
115	61.8	48.0	72.0

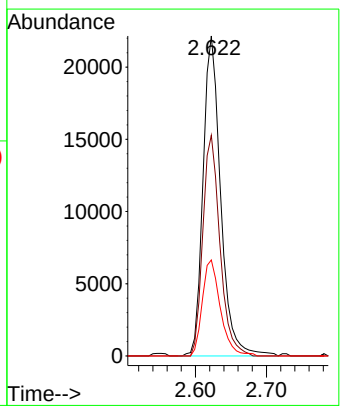


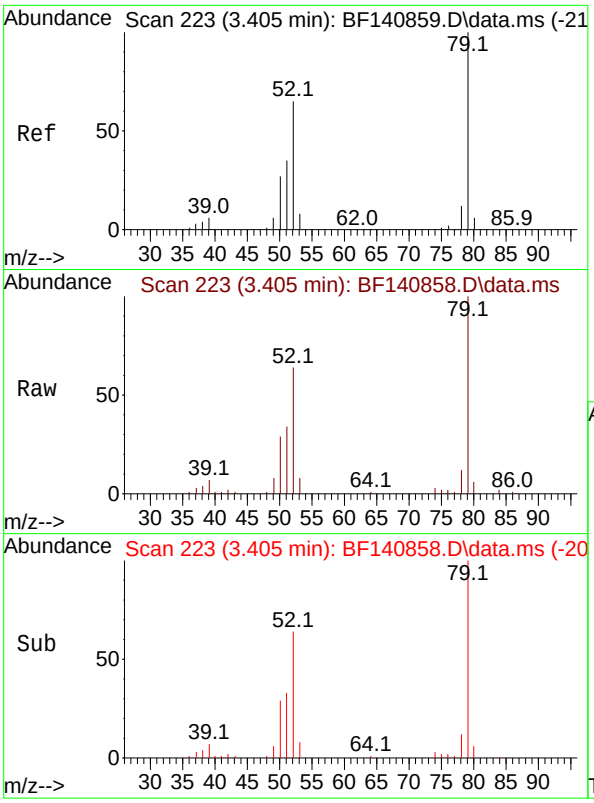


#2
1,4-Dioxane
Concen: 20.532 ng
RT: 2.622 min Scan# 90
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 88 Resp: 38355

Ion	Ratio	Lower	Upper
88	100		
58	66.7	55.8	83.8
43	30.7	22.7	34.1



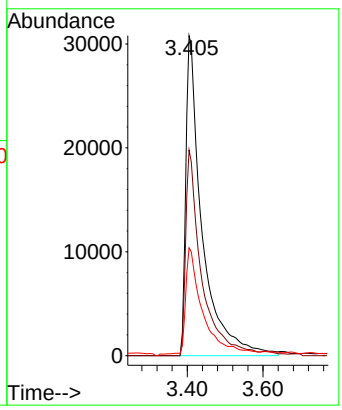


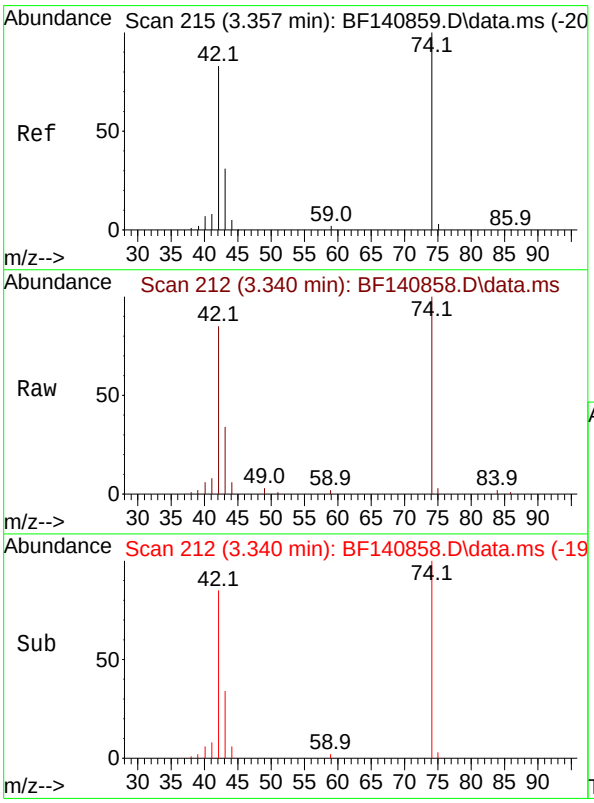
#3
Pyridine
Concen: 21.197 ng
RT: 3.405 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 91704

Ion	Ratio	Lower	Upper
79	100		
52	64.3	51.7	77.5
51	33.7	28.2	42.4

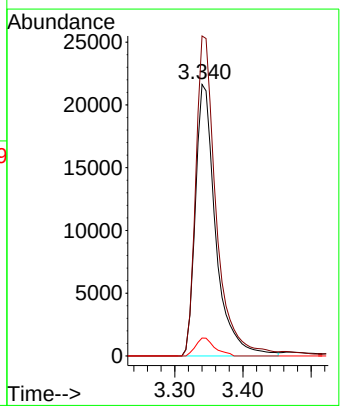


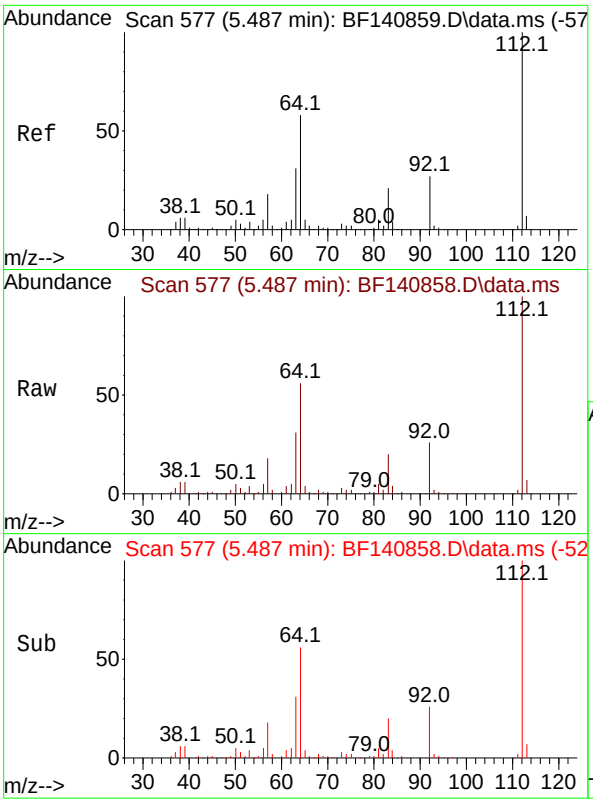


#4
n-Nitrosodimethylamine
Concen: 20.501 ng
RT: 3.340 min Scan# 212
Delta R.T. -0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 42 Resp: 44712

Ion	Ratio	Lower	Upper
42	100		
74	117.8	96.9	145.3
44	6.6	4.4	6.6



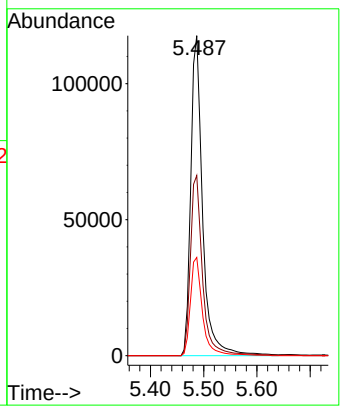


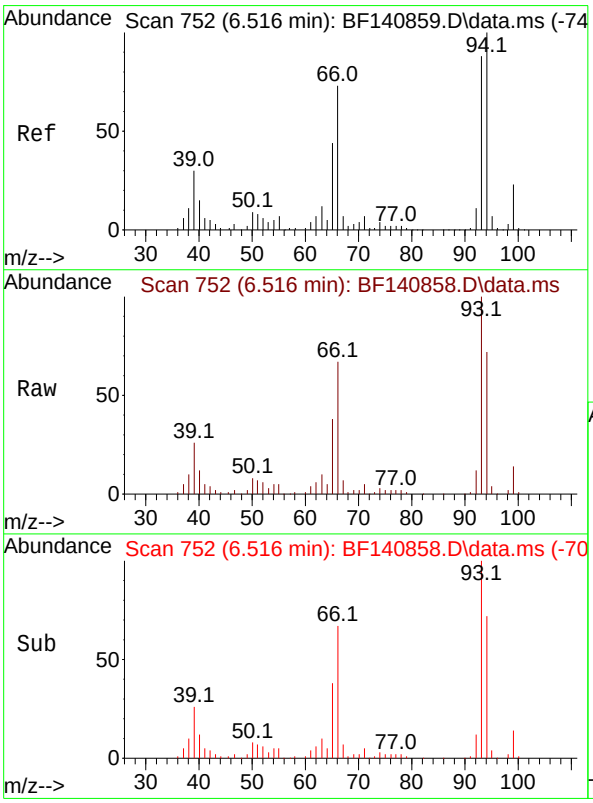
#5
2-Fluorophenol
Concen: 42.100 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 182586

Ion	Ratio	Lower	Upper
112	100		
64	56.3	46.1	69.1
63	30.7	24.9	37.3

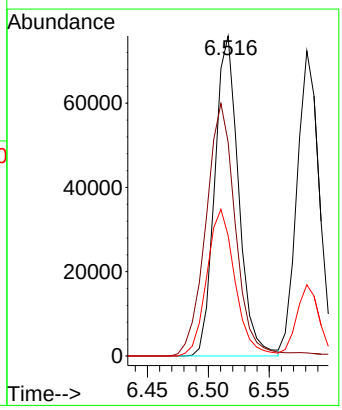


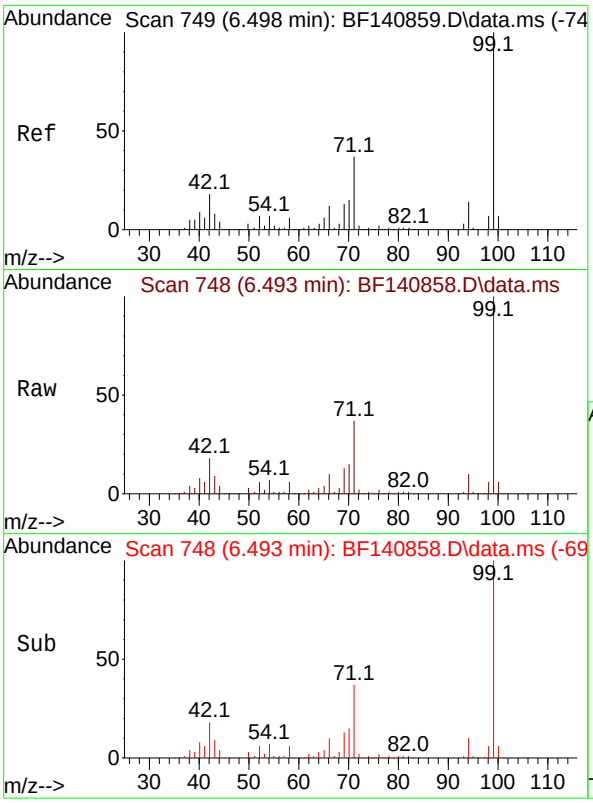


#6
Aniline
Concen: 21.043 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 93 Resp: 103355

Ion	Ratio	Lower	Upper
93	100		
66	66.9	67.0	100.4#
65	37.7	40.4	60.6#



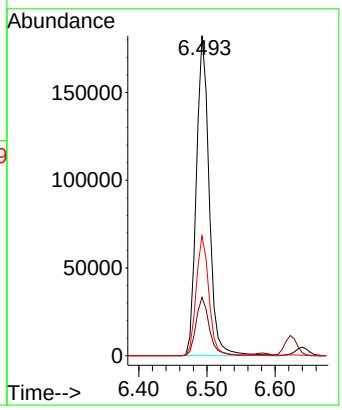


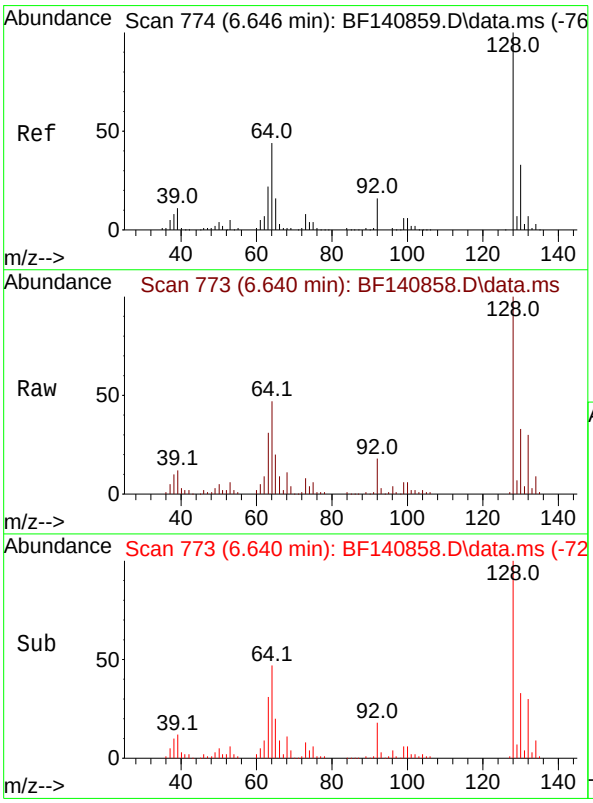
#7
Phenol-d6
Concen: 41.285 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 237156

Ion	Ratio	Lower	Upper
99	100		
42	18.3	14.3	21.5
71	37.4	29.9	44.9

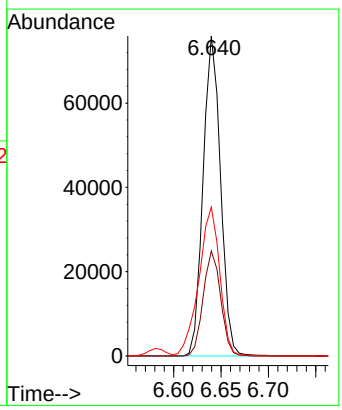


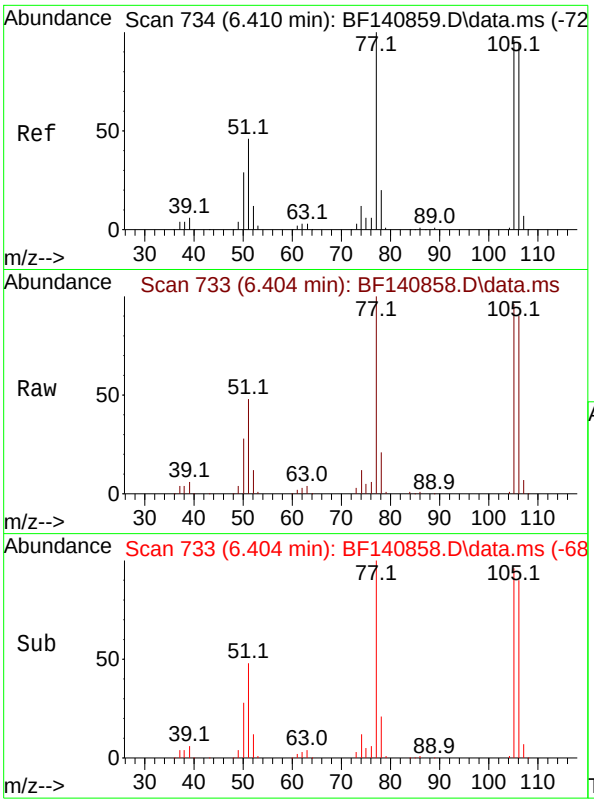


#8
2-Chlorophenol
Concen: 20.490 ng
RT: 6.640 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:128 Resp: 96909

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.9	52.9
64	46.5	24.3	64.3



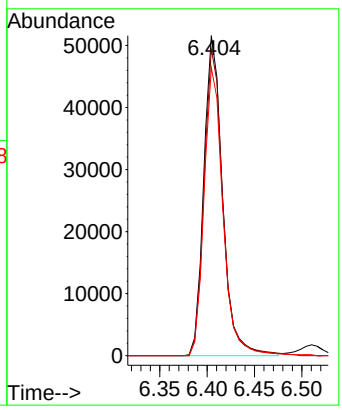


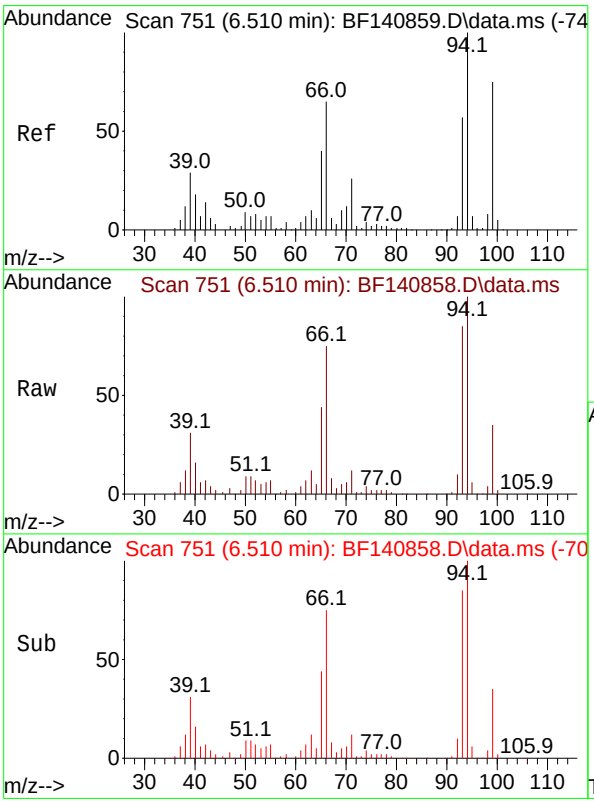
#9
Benzaldehyde
Concen: 22.263 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 70862

Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.8	115.8
106	89.9	74.1	114.1

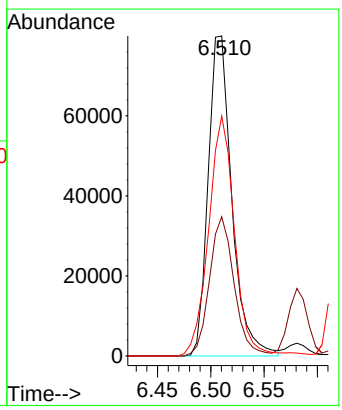


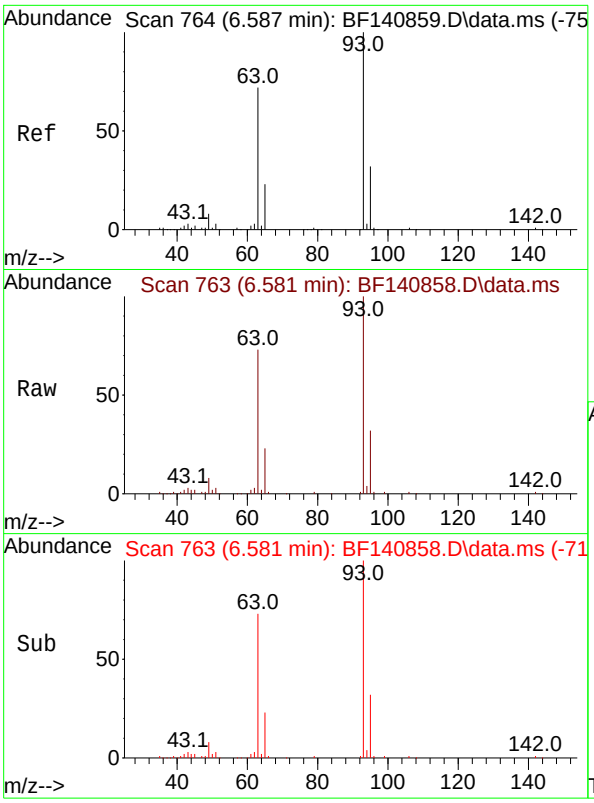


#10
Phenol
Concen: 20.782 ng
RT: 6.510 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 94 Resp: 123728

Ion	Ratio	Lower	Upper
94	100		
65	43.5	19.9	59.9
66	75.0	45.6	85.6



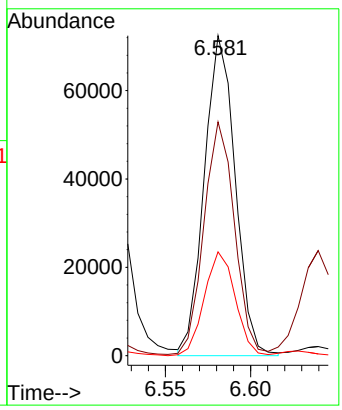


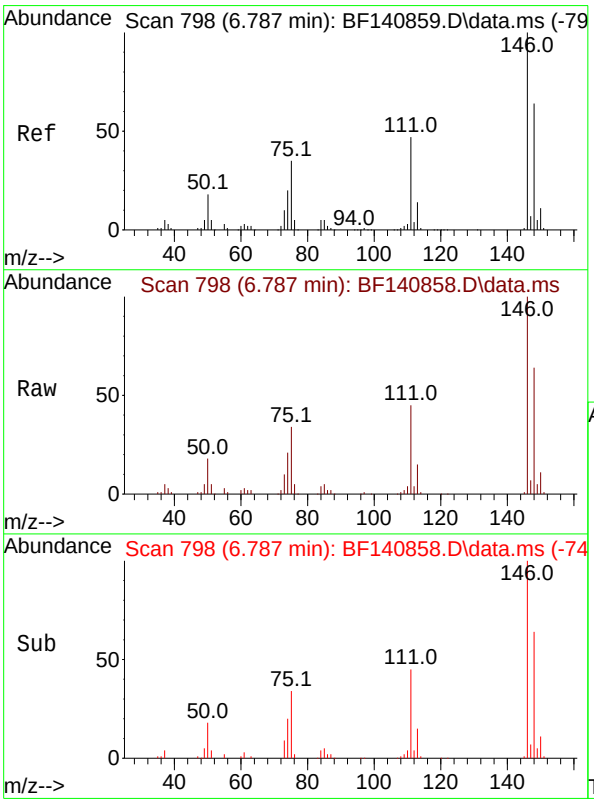
#11
bis(2-Chloroethyl)ether
Concen: 20.602 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 91473

Ion	Ratio	Lower	Upper
93	100		
63	73.0	51.0	91.0
95	32.5	12.0	52.0

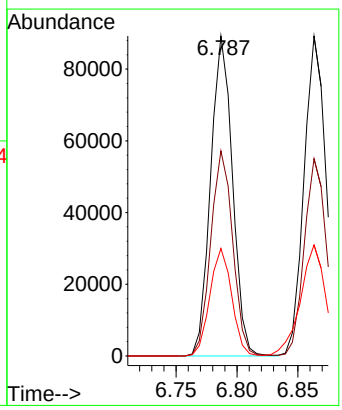


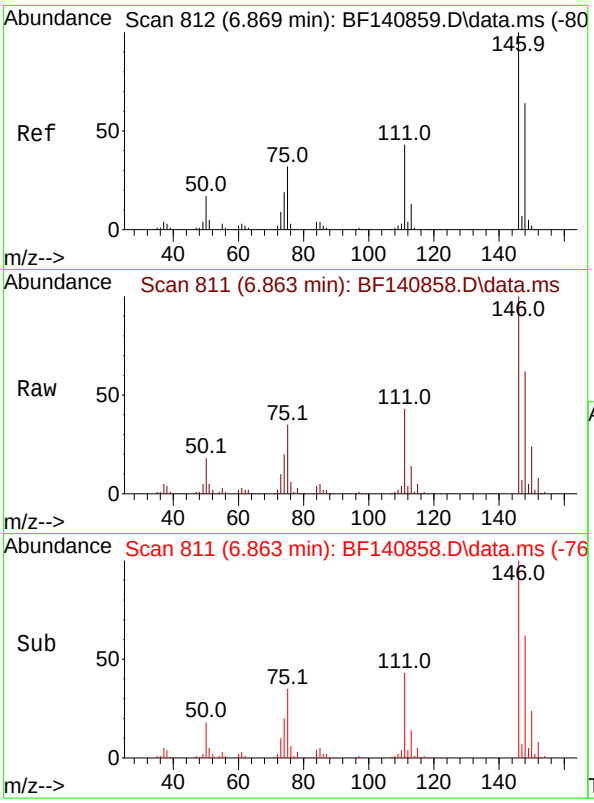


#12
1,3-Dichlorobenzene
Concen: 20.624 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:146 Resp: 111145

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
75	33.6	28.1	42.1



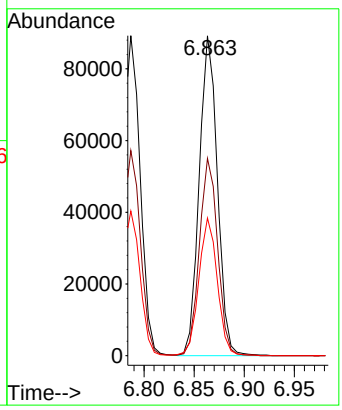


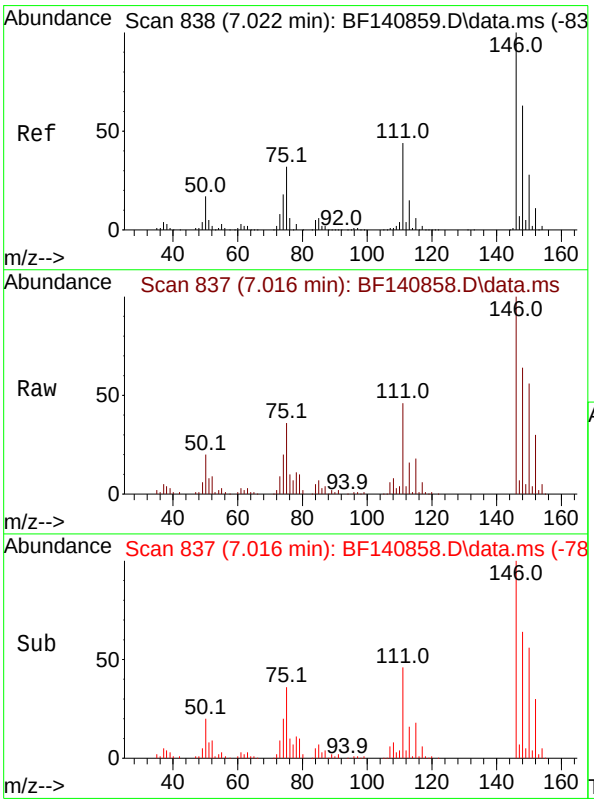
#13
1,4-Dichlorobenzene
Concen: 20.658 ng
RT: 6.863 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 113006

Ion	Ratio	Lower	Upper
146	100		
148	61.7	51.3	76.9
111	43.0	34.4	51.6

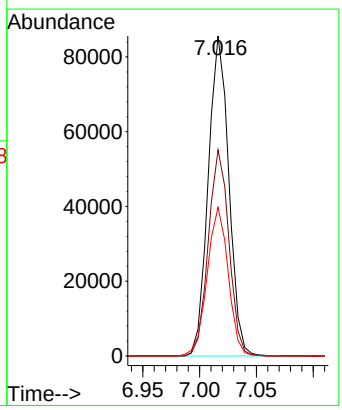


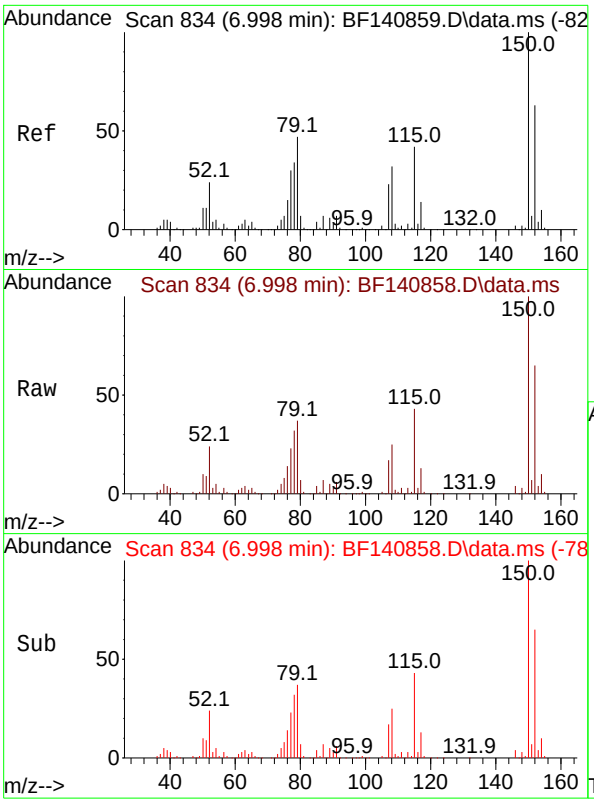


#14
1,2-Dichlorobenzene
Concen: 20.870 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:146 Resp: 107719

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.0	75.0
111	46.4	35.6	53.4



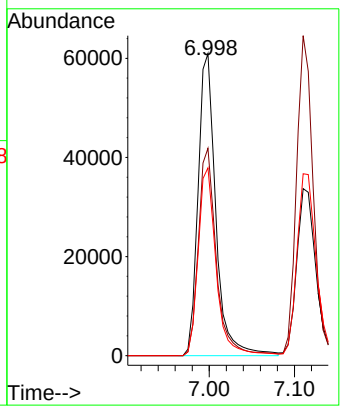


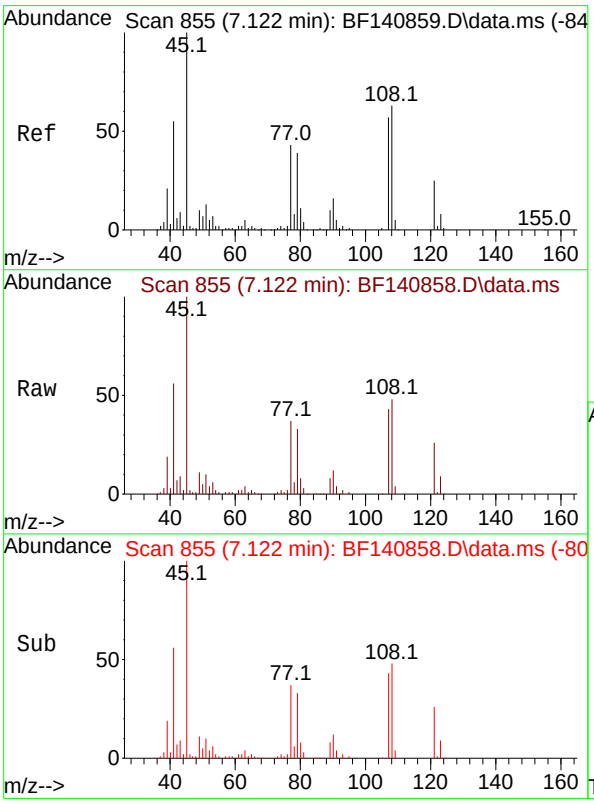
#15
Benzyl Alcohol
Concen: 21.487 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 88251

Ion	Ratio	Lower	Upper
79	100		
108	68.6	55.1	82.7
77	62.2	50.6	76.0

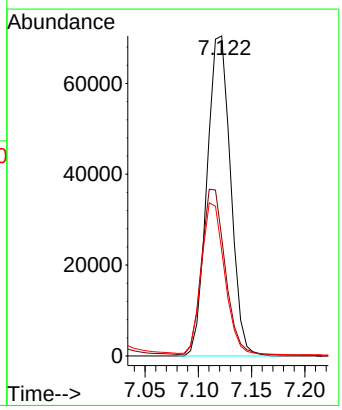


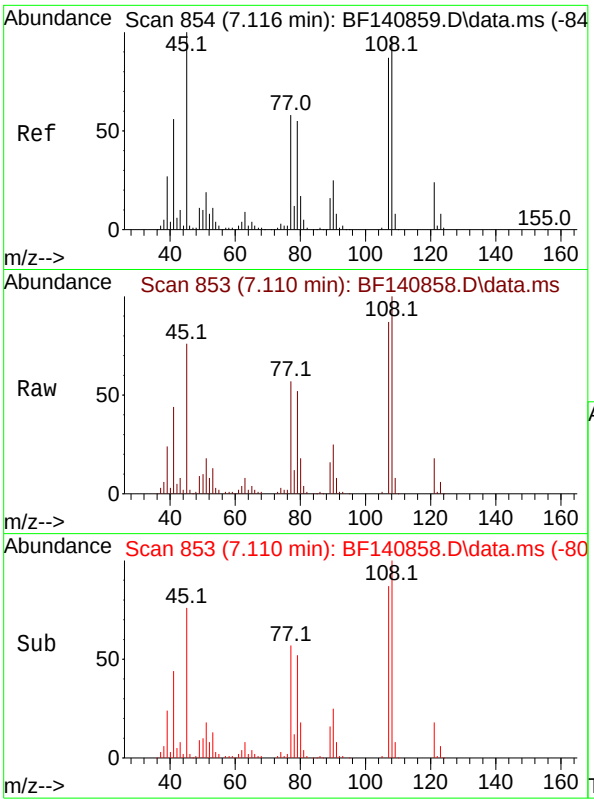


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.739 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 45 Resp: 108472

Ion	Ratio	Lower	Upper
45	100		
77	37.0	23.3	63.3
79	32.9	20.0	60.0



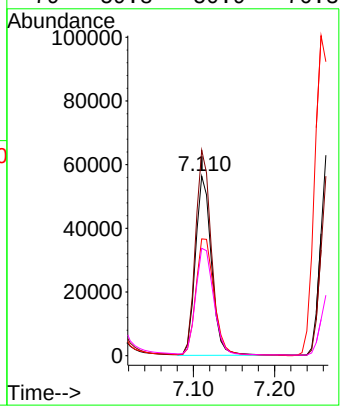


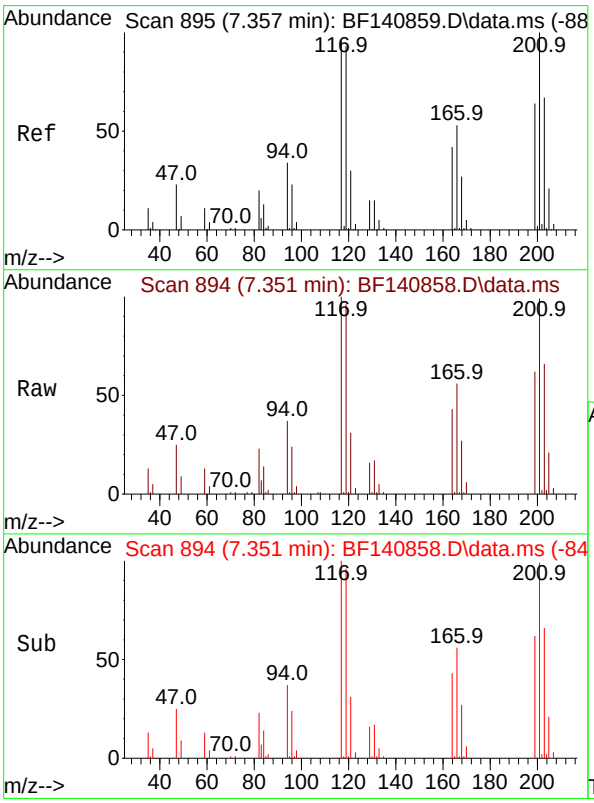
#17
2-Methylphenol
Concen: 20.427 ng
RT: 7.110 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 77132

Ion	Ratio	Lower	Upper
107	100		
108	114.5	90.2	135.4
77	65.1	53.8	80.6
79	59.8	50.9	76.3

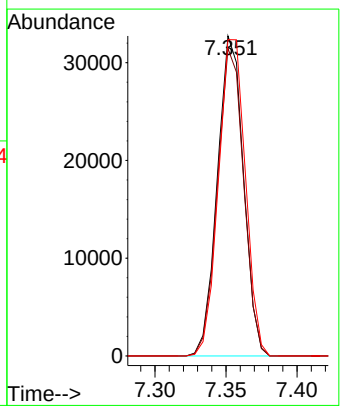


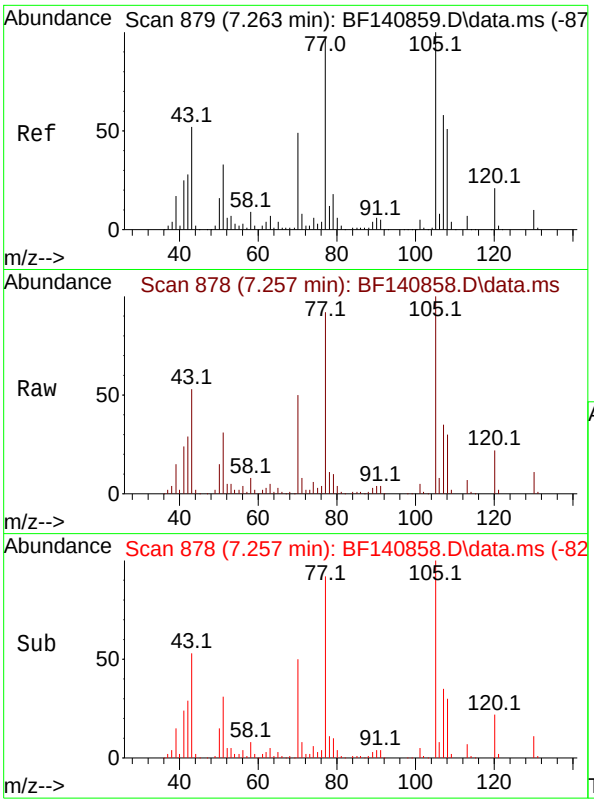


#18
Hexachloroethane
Concen: 20.509 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:117 Resp: 41766

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.4	116.0
201	98.9	83.4	125.0



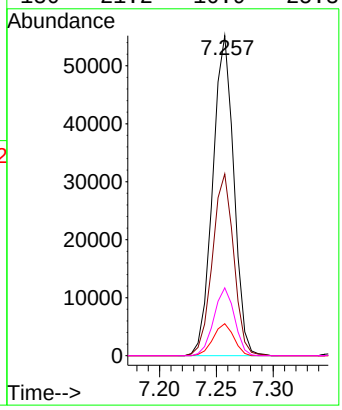


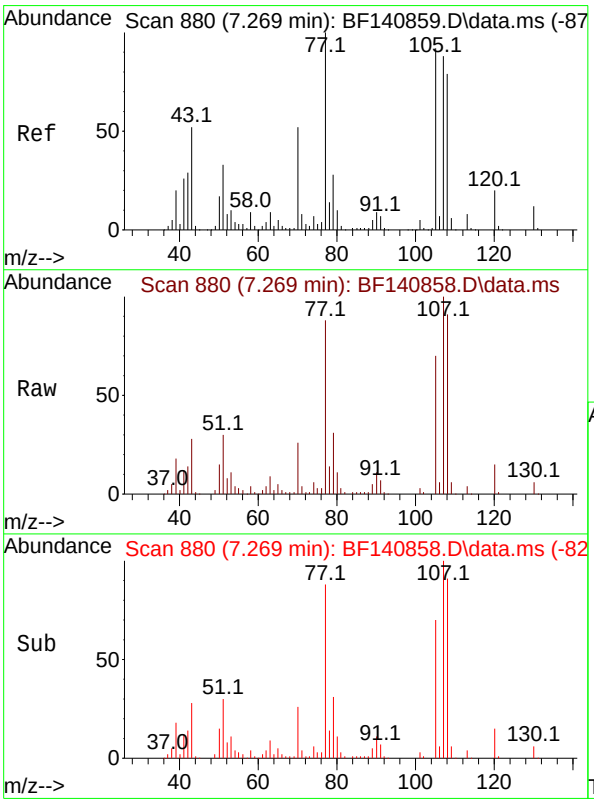
#19
n-Nitroso-di-n-propylamine
Concen: 20.705 ng
RT: 7.257 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 71344

Ion	Ratio	Lower	Upper
70	100		
42	56.8	45.3	67.9
101	10.0	8.0	12.0
130	21.2	16.9	25.3

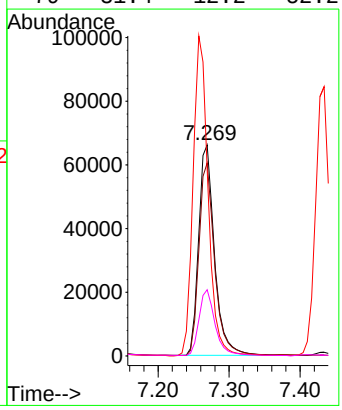


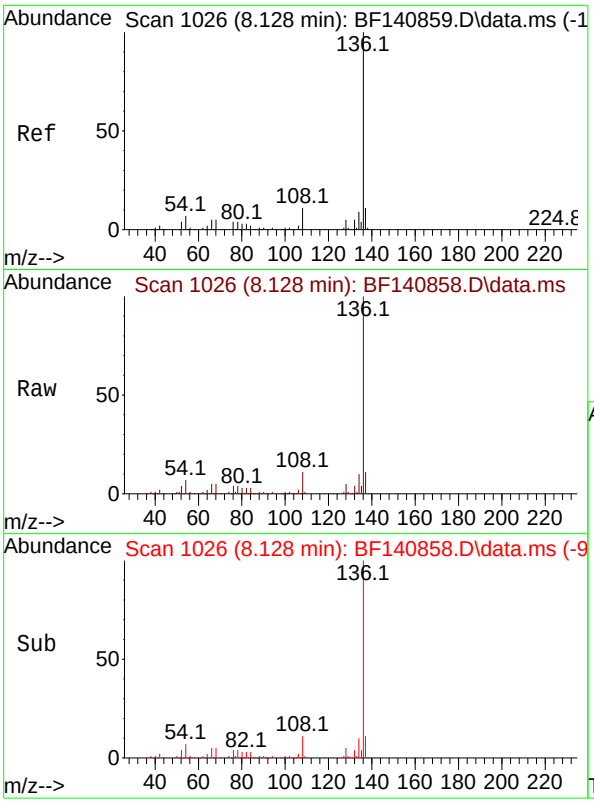


#20
3+4-Methylphenols
Concen: 20.534 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:107 Resp: 102814

Ion	Ratio	Lower	Upper
107	100		
108	91.5	70.1	110.1
77	88.5	94.4	134.4#
79	31.4	12.2	52.2



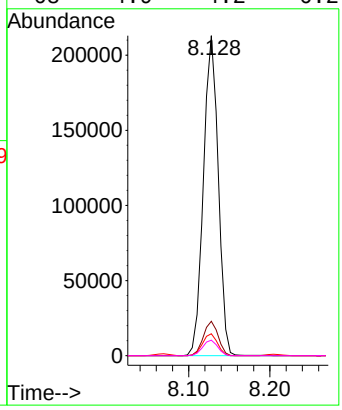


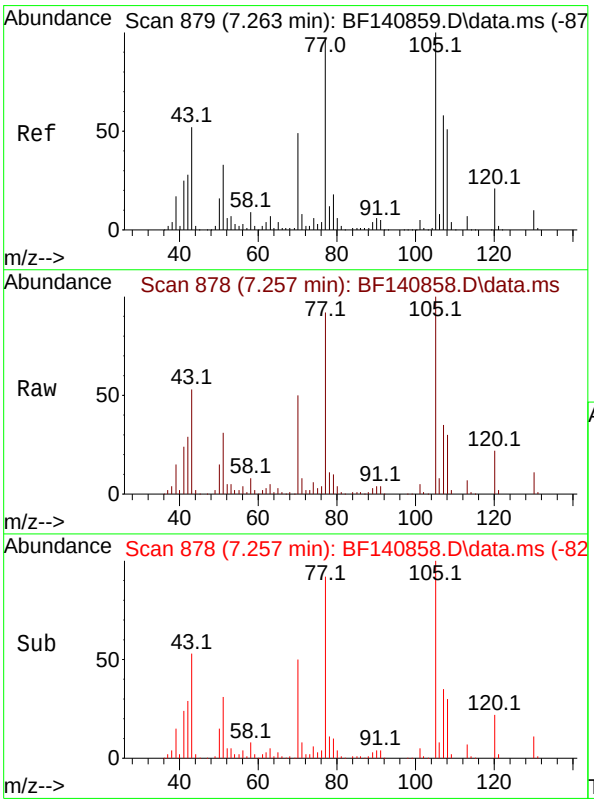
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 269448

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.8	5.6	8.4
68	4.9	4.2	6.2

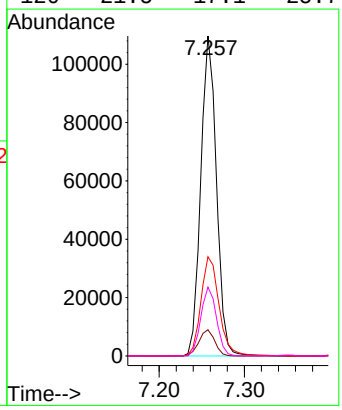


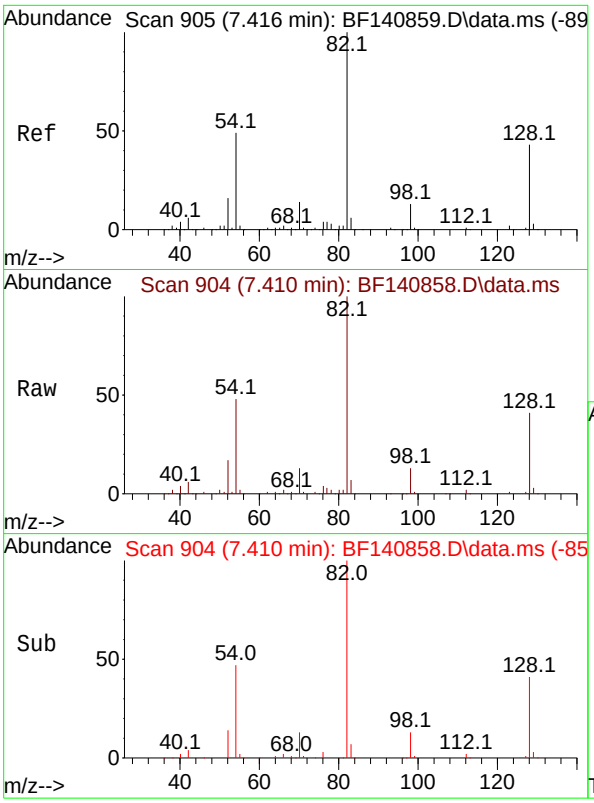


#22
Acetophenone
Concen: 20.798 ng
RT: 7.257 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:105 Resp: 140187

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.2	9.4
51	31.0	26.3	39.5
120	21.5	17.1	25.7



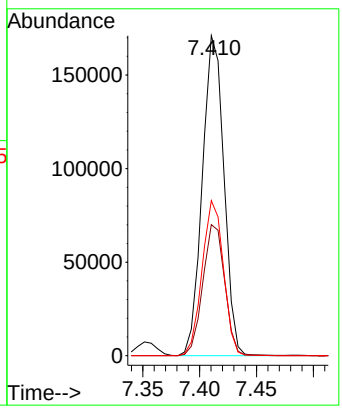


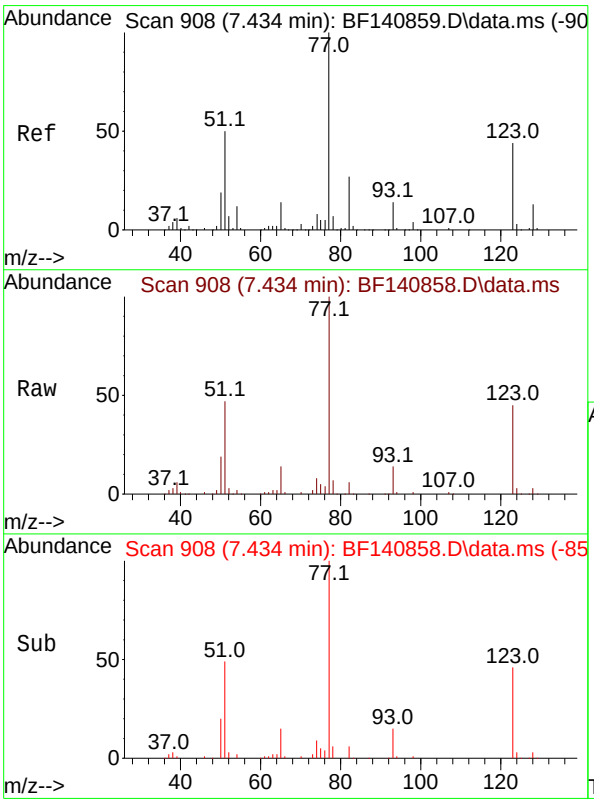
#23
Nitrobenzene-d5
Concen: 42.030 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 226356

Ion	Ratio	Lower	Upper
82	100		
128	40.9	34.4	51.6
54	48.5	38.8	58.2

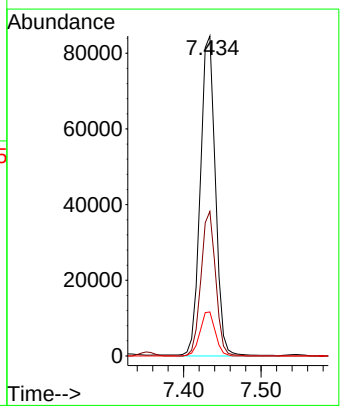


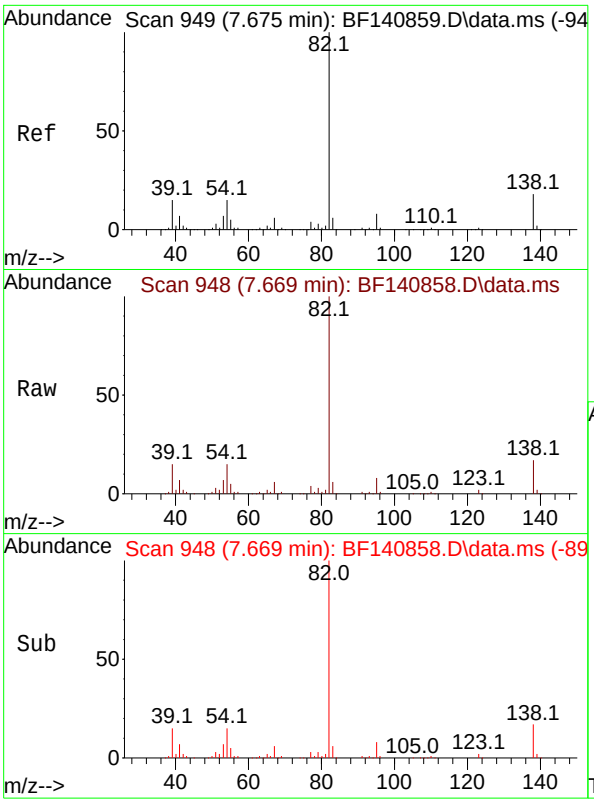


#24
Nitrobenzene
Concen: 20.750 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 77 Resp: 114486

Ion	Ratio	Lower	Upper
77	100		
123	45.2	35.0	52.4
65	13.7	11.4	17.0



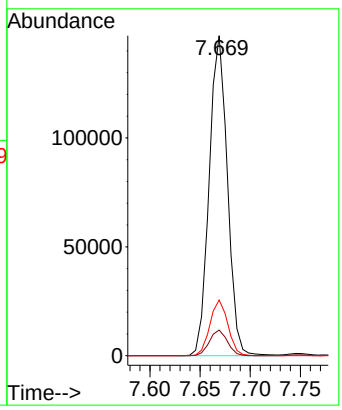


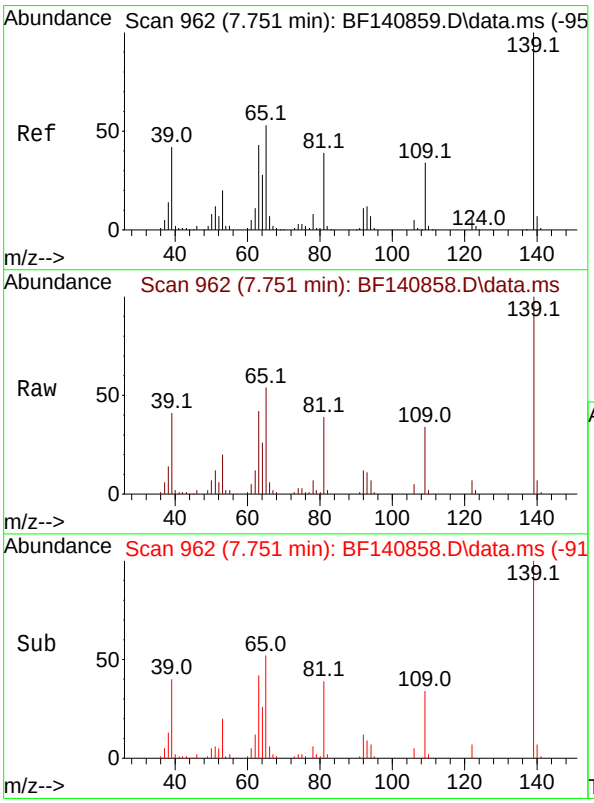
#25
Isophorone
Concen: 20.601 ng
RT: 7.669 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 185900

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	17.4	14.1	21.1

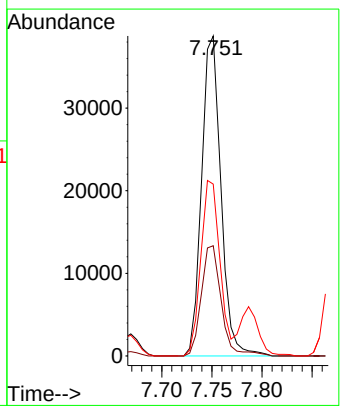


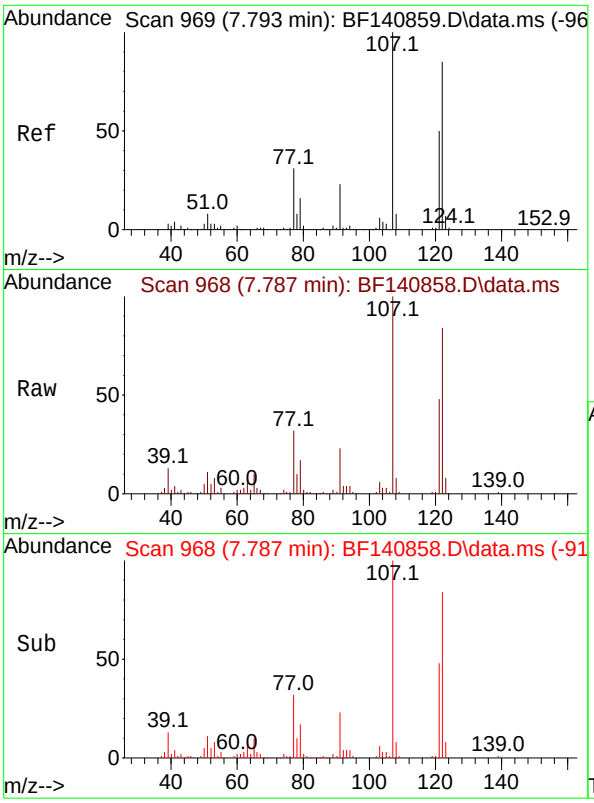


#26
2-Nitrophenol
Concen: 20.516 ng
RT: 7.751 min Scan# 962
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:139 Resp: 52133

Ion	Ratio	Lower	Upper
139	100		
109	34.5	26.9	40.3
65	53.7	42.6	64.0



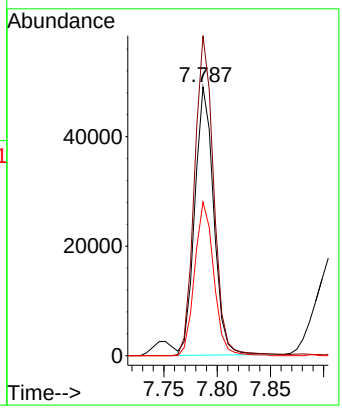


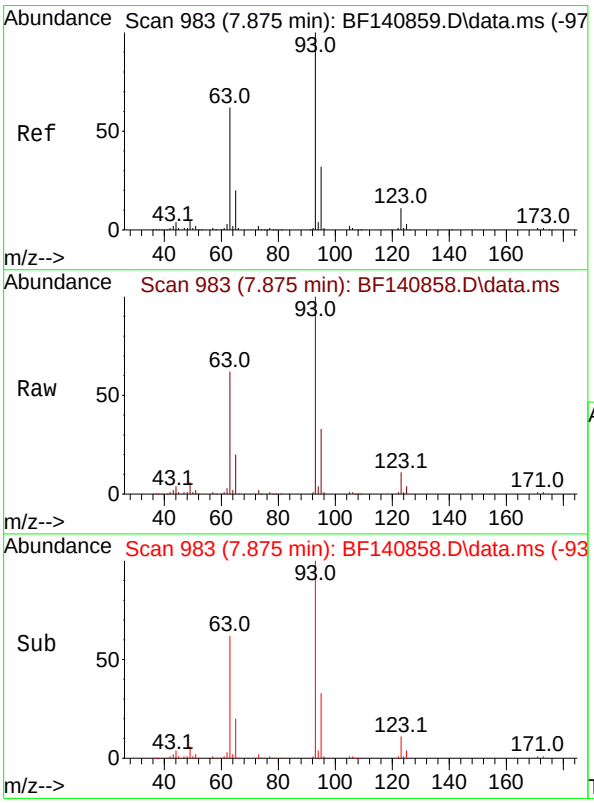
#27
2,4-Dimethylphenol
Concen: 20.471 ng
RT: 7.787 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 60750

Ion	Ratio	Lower	Upper
122	100		
107	119.1	92.6	139.0
121	57.2	45.8	68.8

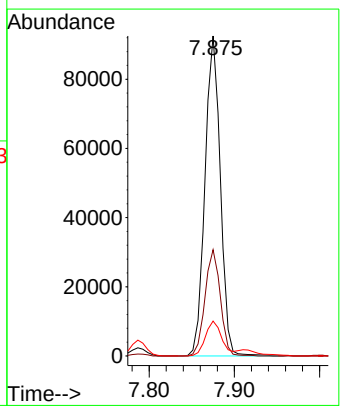


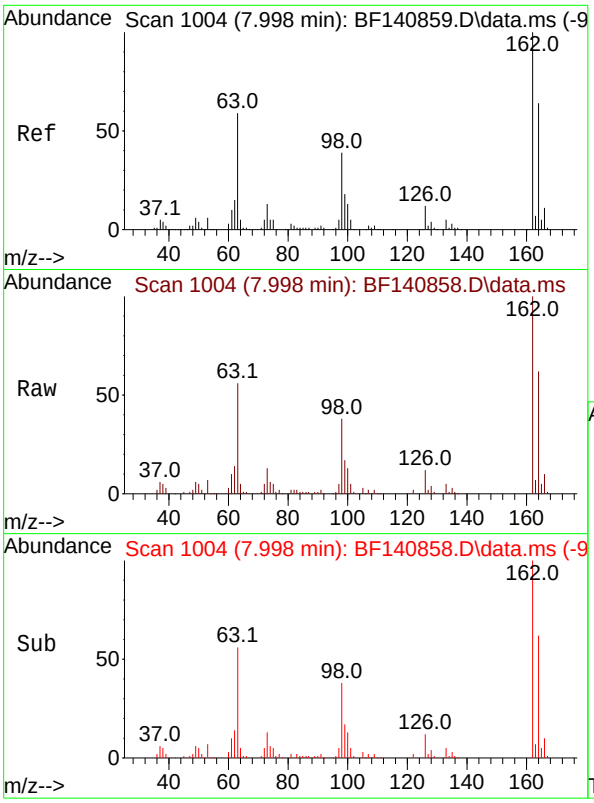


#28
bis(2-Chloroethoxy)methane
Concen: 20.512 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 93 Resp: 115605

Ion	Ratio	Lower	Upper
93	100		
95	33.2	25.3	37.9
123	10.9	8.6	13.0



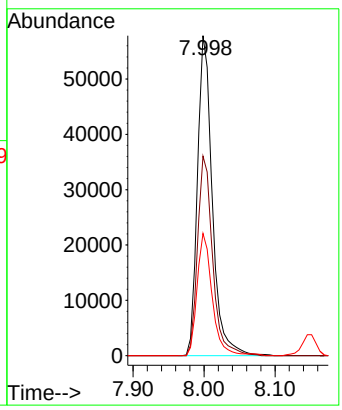


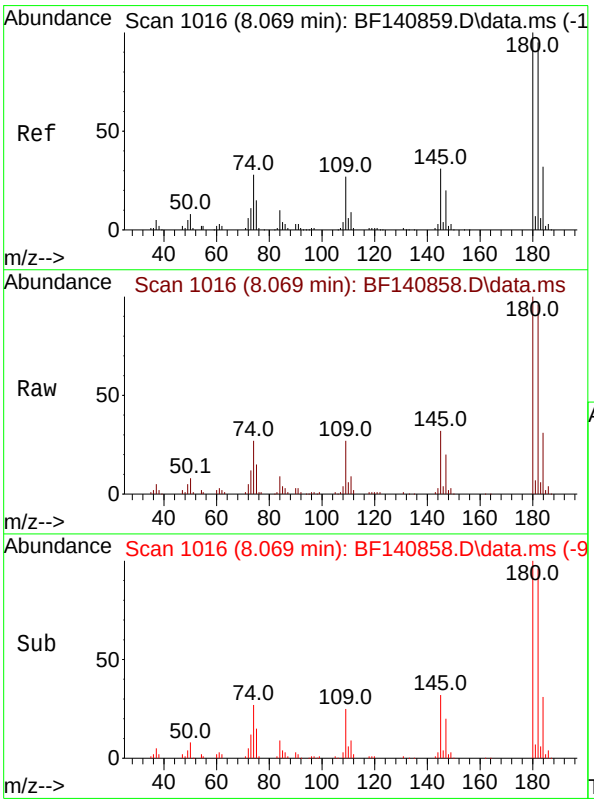
#29
2,4-Dichlorophenol
Concen: 20.575 ng
RT: 7.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 84299

Ion	Ratio	Lower	Upper
162	100		
164	62.3	43.7	83.7
98	38.2	18.6	58.6

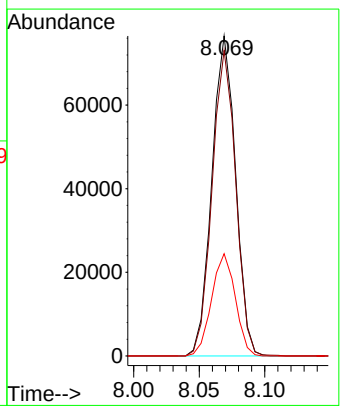


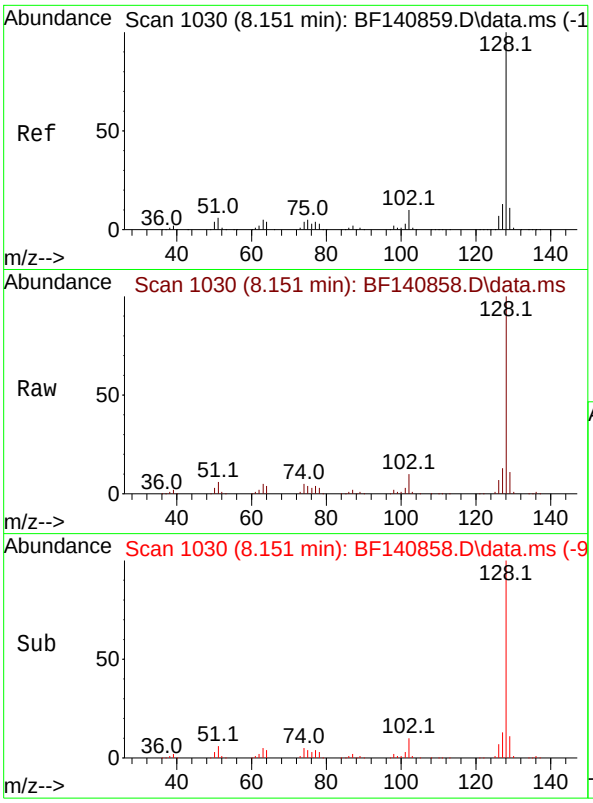


#30
1,2,4-Trichlorobenzene
Concen: 20.481 ng
RT: 8.069 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:180 Resp: 96194

Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.8	113.6
145	31.9	25.2	37.8



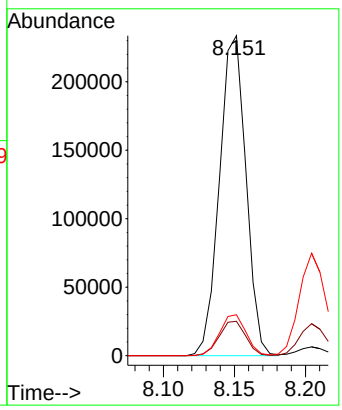


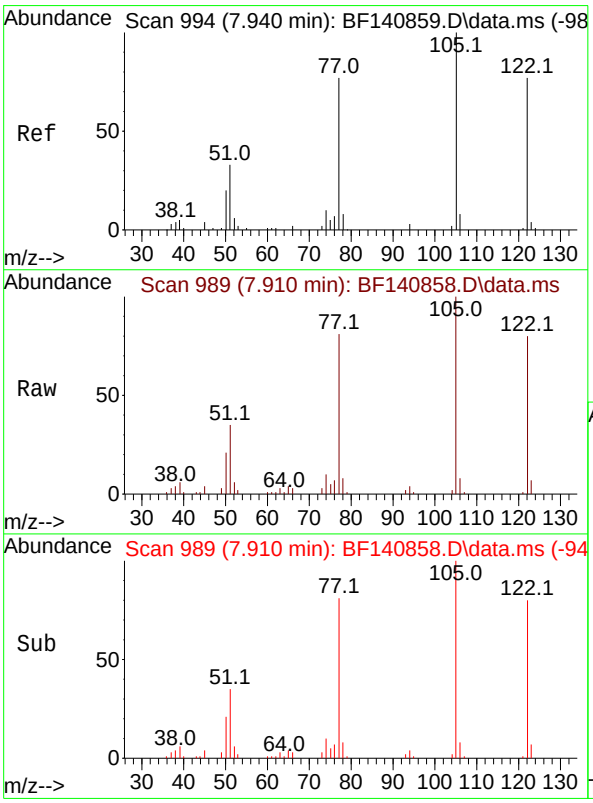
#31
Naphthalene
Concen: 20.500 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 303425

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	12.8	10.6	16.0

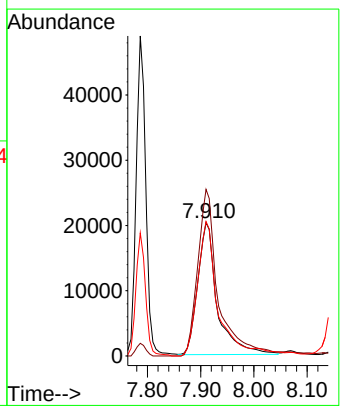


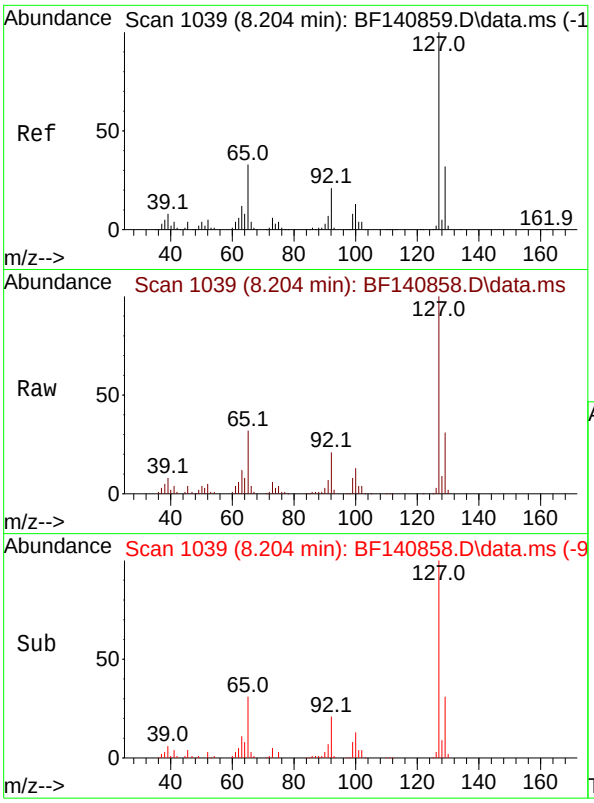


#32
Benzoic acid
Concen: 18.394 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.030 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:122 Resp: 51770

Ion	Ratio	Lower	Upper
122	100		
105	125.0	108.3	148.3
77	100.9	78.8	118.8



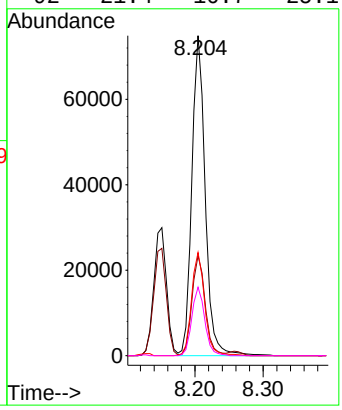


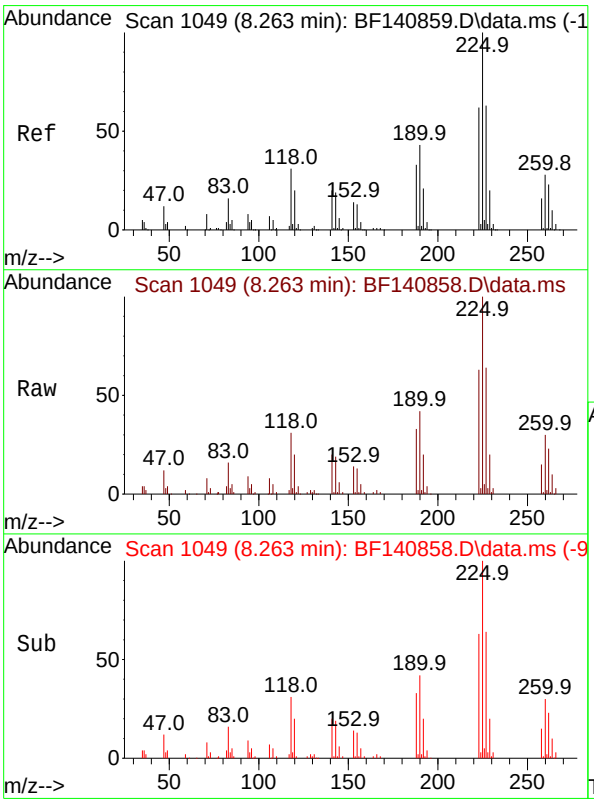
#33
4-Chloroaniline
Concen: 20.664 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 101583

Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.0	39.0
65	32.3	26.0	39.0
92	21.4	16.7	25.1

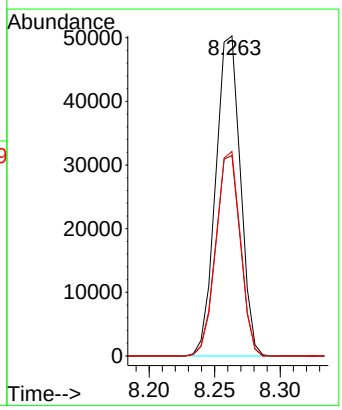


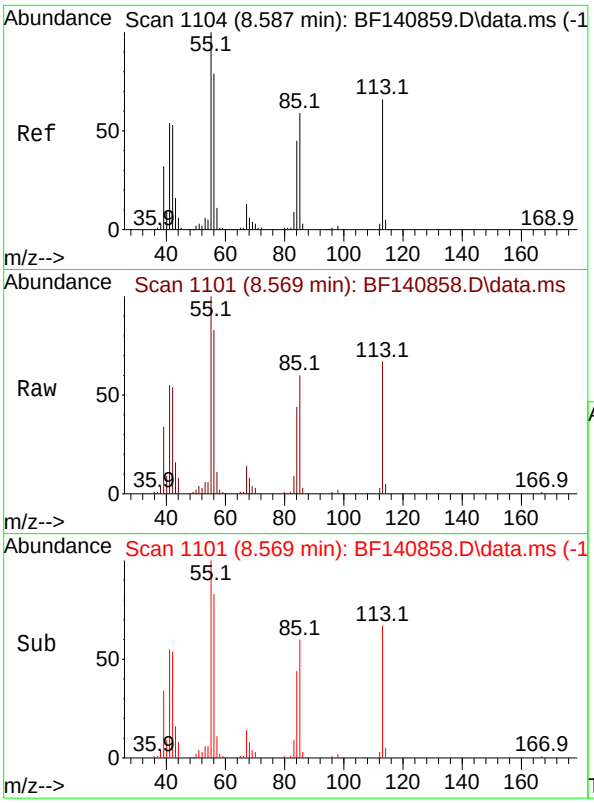


#34
Hexachlorobutadiene
Concen: 20.824 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:225 Resp: 65803

Ion	Ratio	Lower	Upper
225	100		
223	62.6	49.6	74.4
227	63.9	50.7	76.1



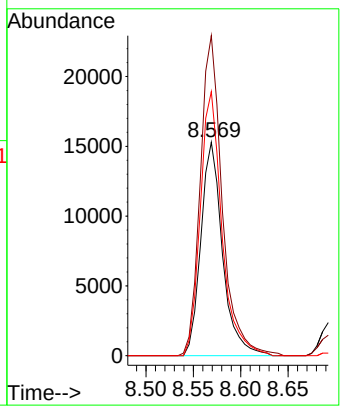


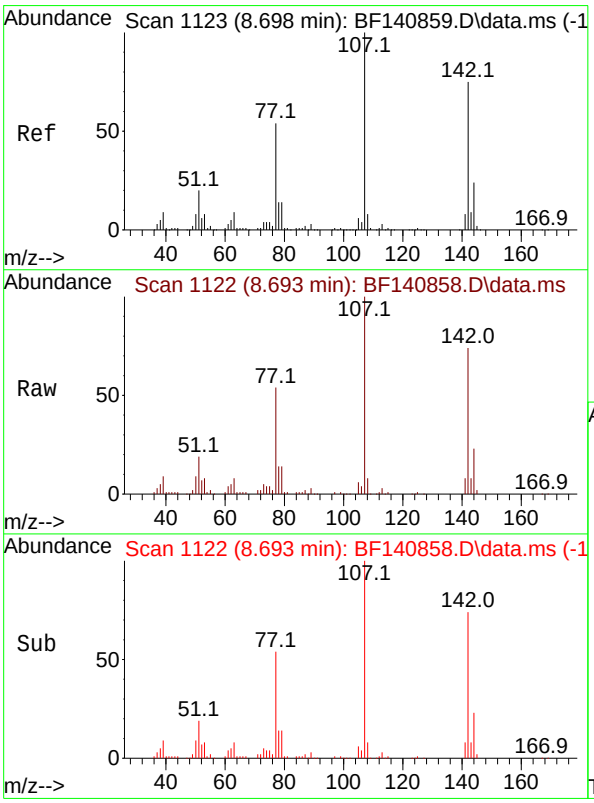
#35
Caprolactam
Concen: 19.958 ng
RT: 8.569 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 24344

Ion	Ratio	Lower	Upper
113	100		
55	149.9	132.3	172.3
56	123.7	100.3	140.3

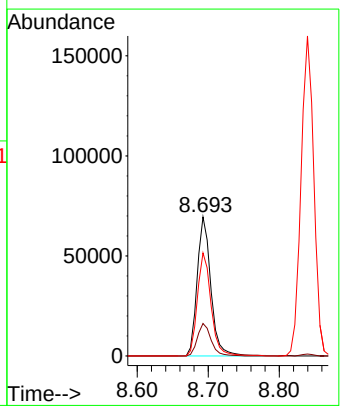


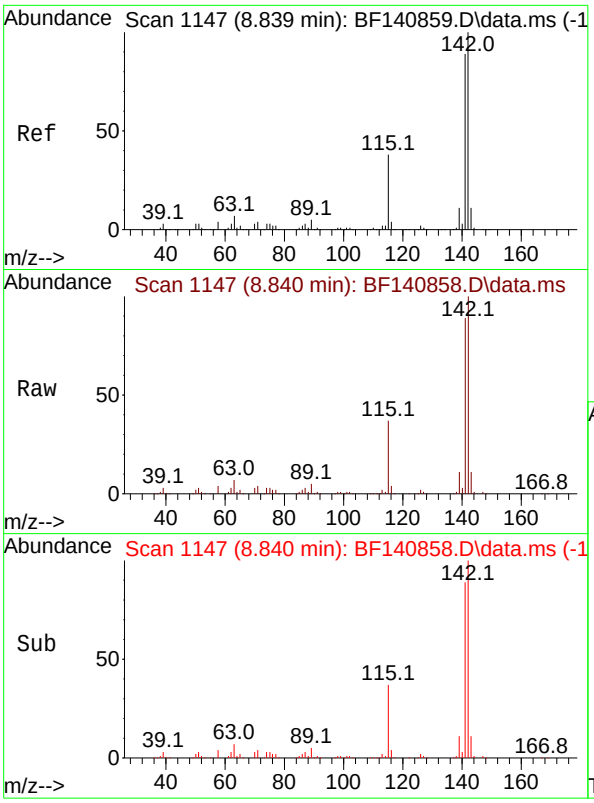


#36
4-Chloro-3-methylphenol
Concen: 20.300 ng
RT: 8.693 min Scan# 1122
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:107 Resp: 93611

Ion	Ratio	Lower	Upper
107	100		
144	23.4	19.4	29.2
142	74.1	60.3	90.5



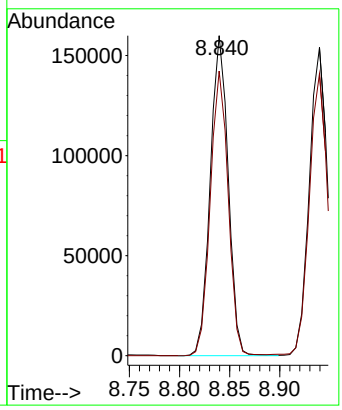


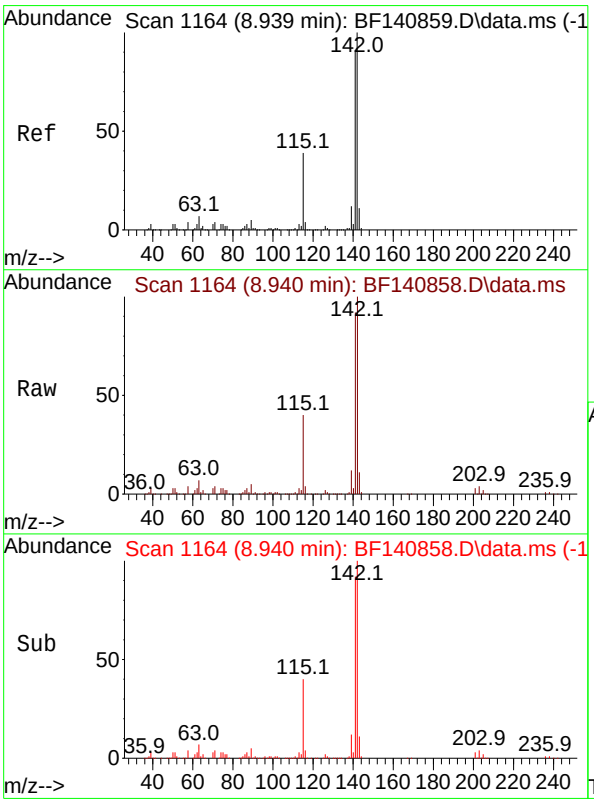
#37
2-Methylnaphthalene
Concen: 20.375 ng
RT: 8.840 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 199492

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.0	106.6

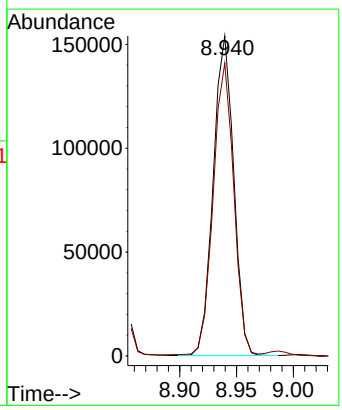


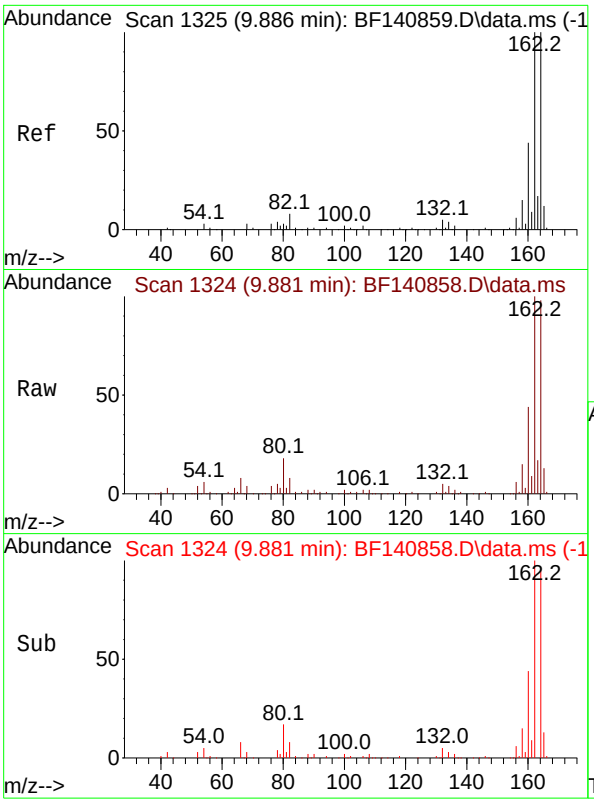


#38
1-Methylnaphthalene
Concen: 19.937 ng
RT: 8.940 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:142 Resp: 193053

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.4	110.0



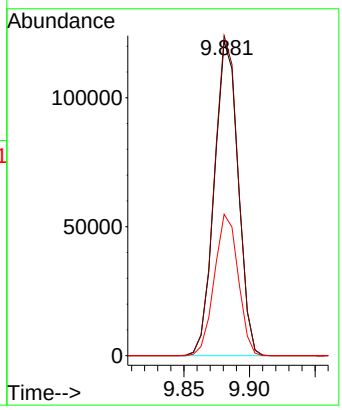


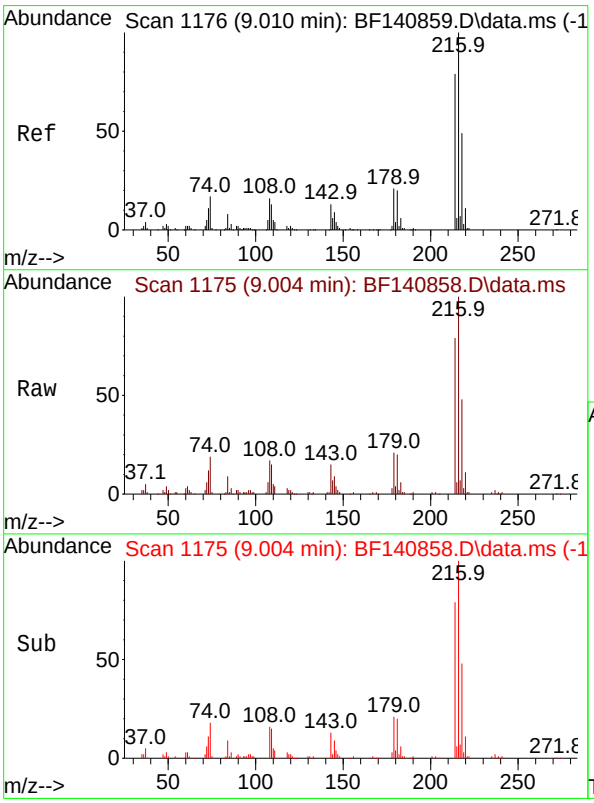
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 153586

Ion	Ratio	Lower	Upper
164	100		
162	101.8	79.9	119.9
160	45.0	35.2	52.8

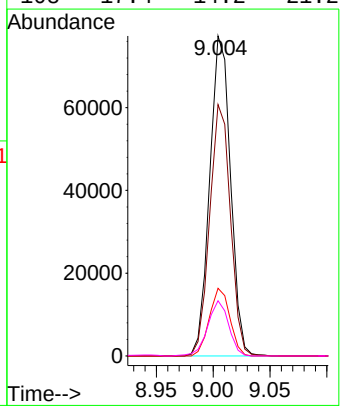


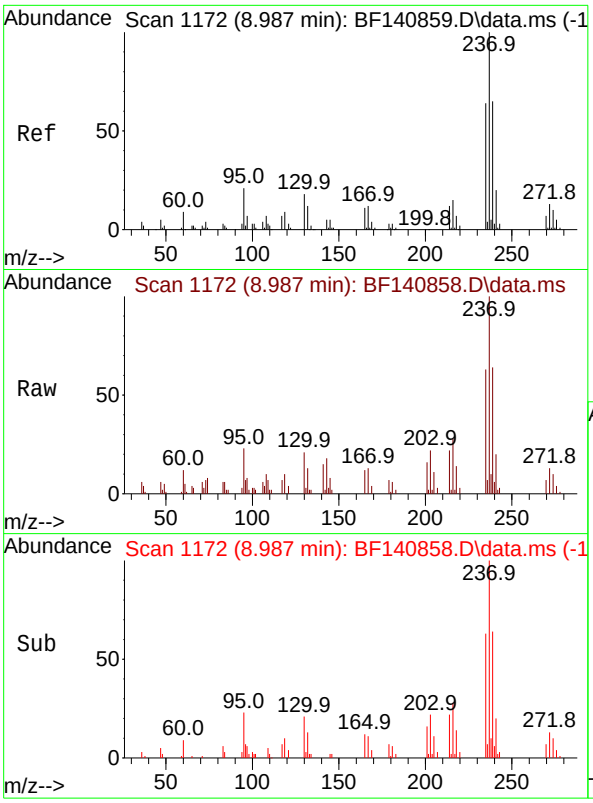


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.869 ng
RT: 9.004 min Scan# 1175
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:216 Resp: 98517

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.6	95.4
179	20.8	17.0	25.4
108	17.4	14.2	21.2



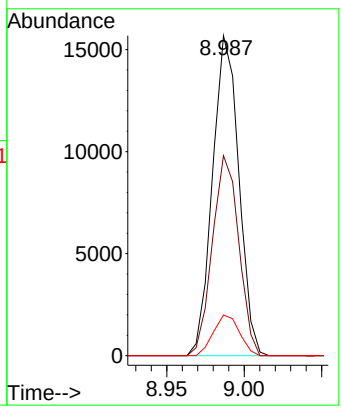


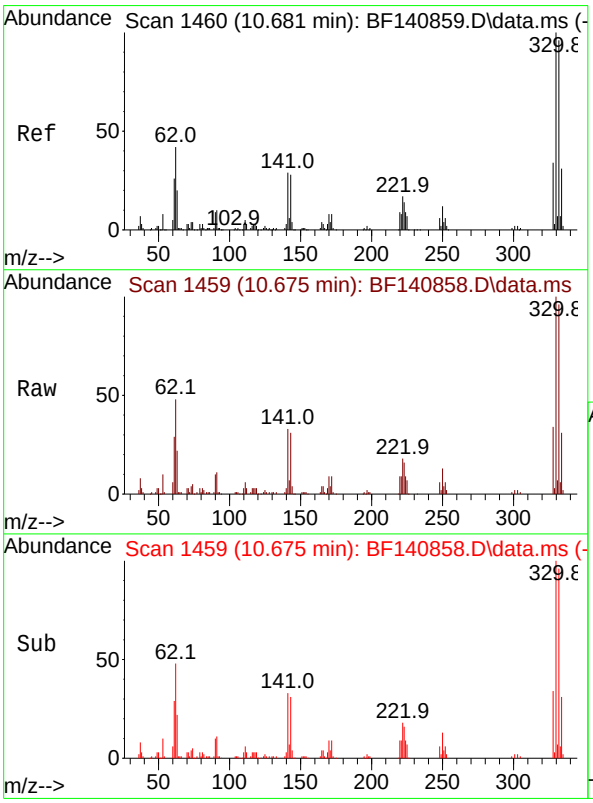
#41
Hexachlorocyclopentadiene
Concen: 21.391 ng
RT: 8.987 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 18486

Ion	Ratio	Lower	Upper
237	100		
235	62.5	43.7	83.7
272	12.7	0.0	32.9

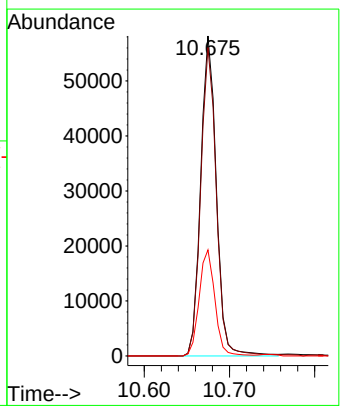


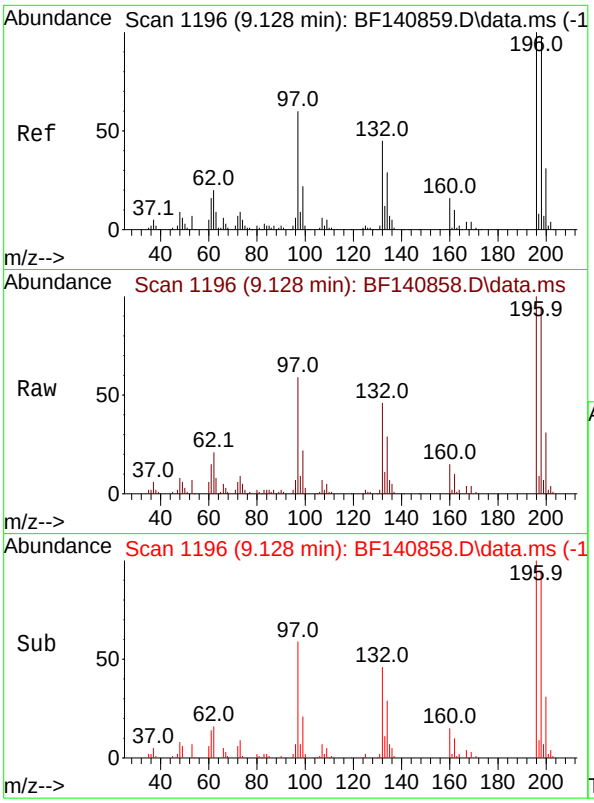


#42
2,4,6-Tribromophenol
Concen: 40.909 ng
RT: 10.675 min Scan# 1459
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:330 Resp: 74311

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.2	114.4
141	33.3	24.9	37.3



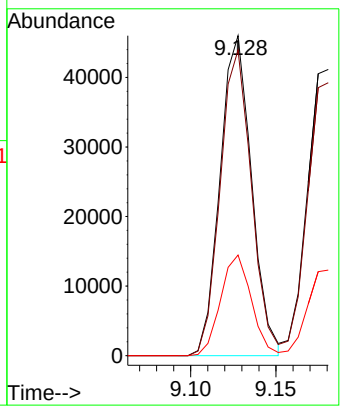


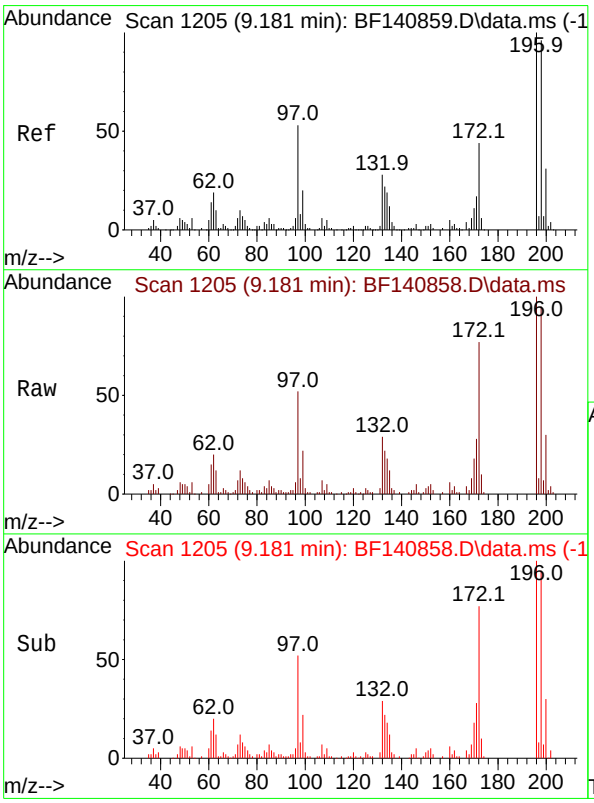
#43
2,4,6-Trichlorophenol
Concen: 20.509 ng
RT: 9.128 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 59284

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.4	116.0
200	31.5	24.5	36.7

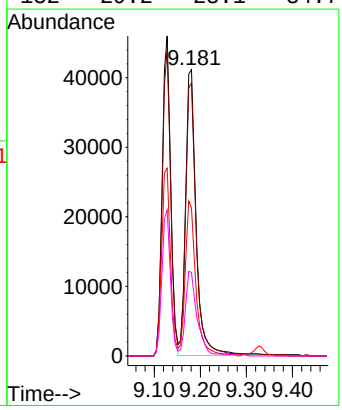


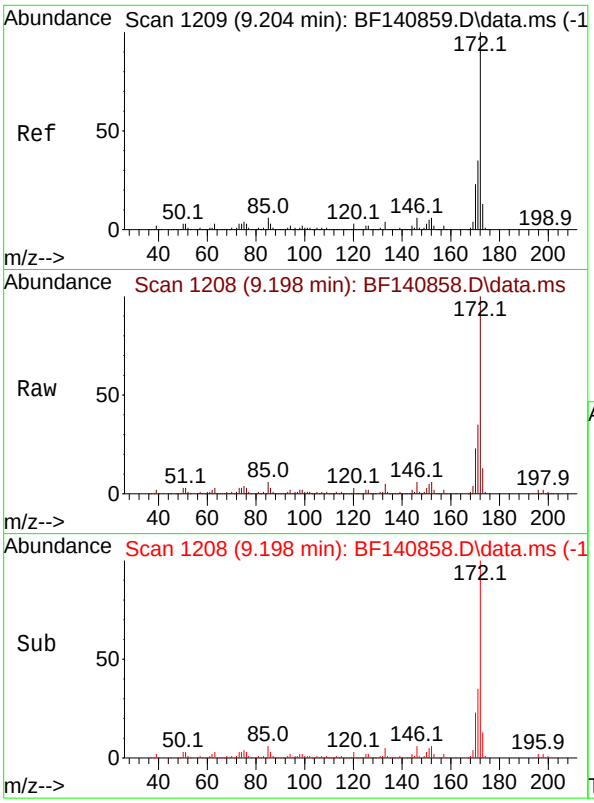


#44
2,4,5-Trichlorophenol
Concen: 20.600 ng
RT: 9.181 min Scan# 1205
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:196 Resp: 65450

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.2	115.8
97	51.7	42.2	63.4
132	29.2	23.1	34.7



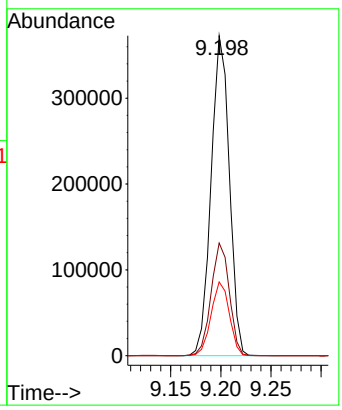


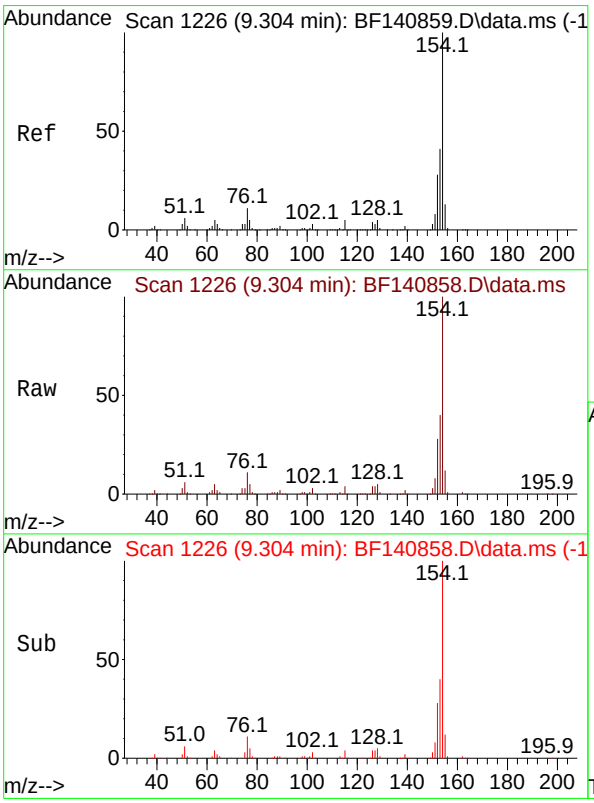
#45
2-Fluorobiphenyl
Concen: 42.281 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 472330

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.1	18.6	28.0

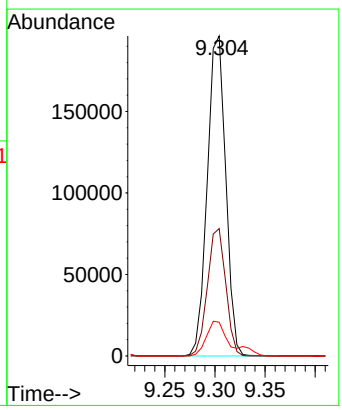


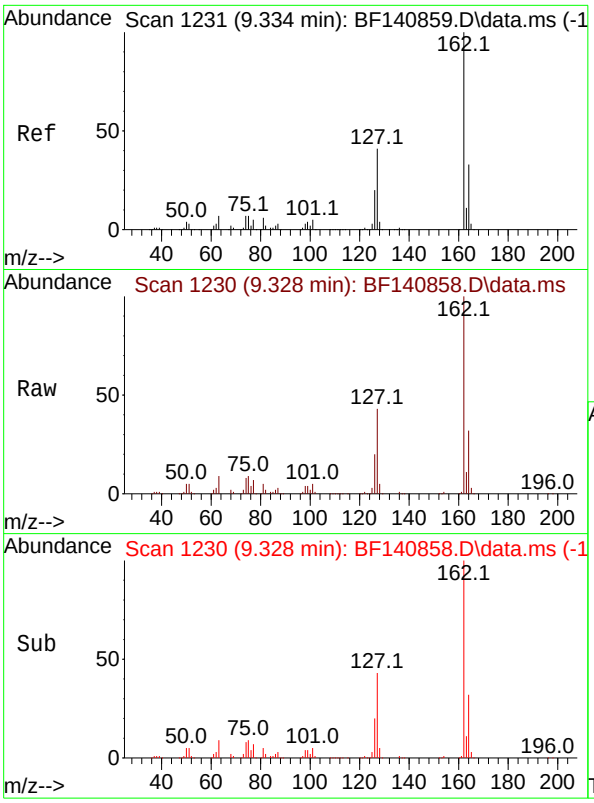


#46
1,1'-Biphenyl
Concen: 20.606 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:154 Resp: 251662

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.8	60.8
76	10.5	0.0	31.0



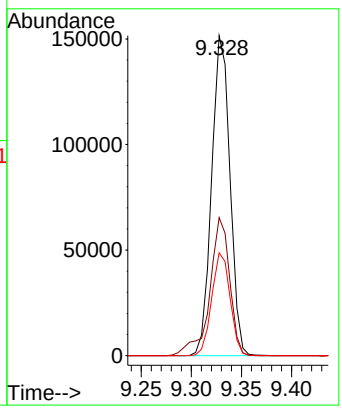


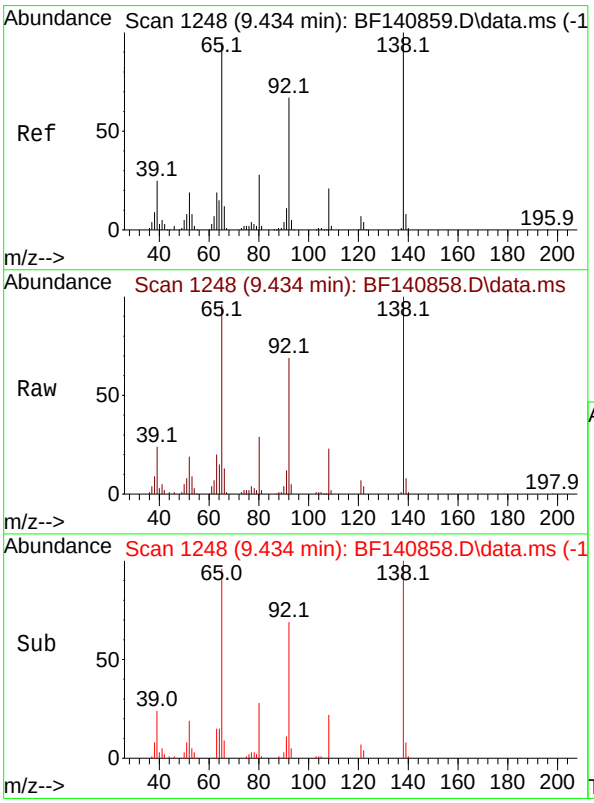
#47
2-Chloronaphthalene
Concen: 20.615 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 192611

Ion	Ratio	Lower	Upper
162	100		
127	43.2	33.5	50.3
164	32.1	26.2	39.2

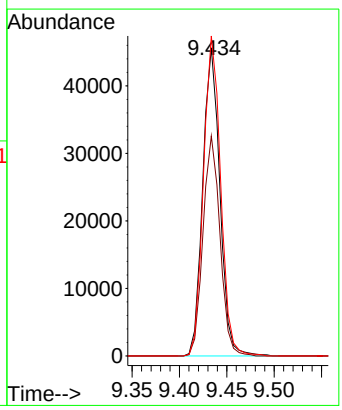


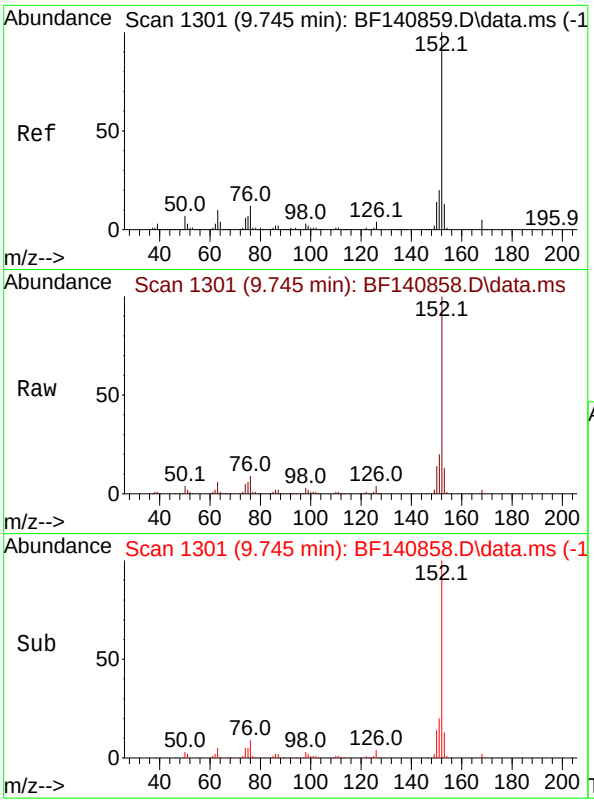


#48
2-Nitroaniline
Concen: 20.250 ng
RT: 9.434 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion: 65 Resp: 57140

Ion	Ratio	Lower	Upper
65	100		
92	71.4	56.3	84.5
138	103.9	83.8	125.6



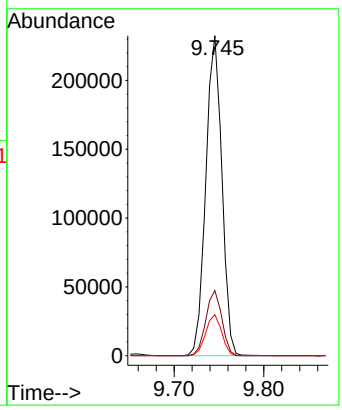


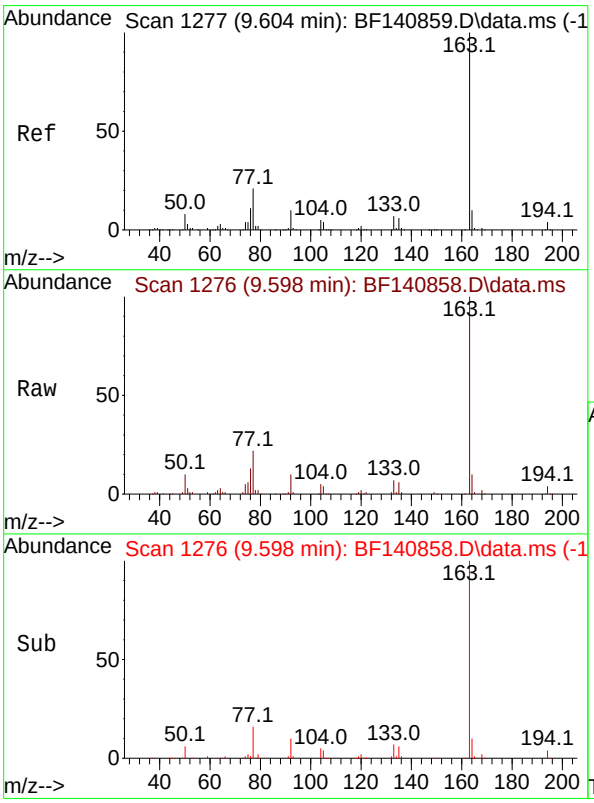
#49
Acenaphthylene
Concen: 21.027 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 288710

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	12.8	10.6	16.0

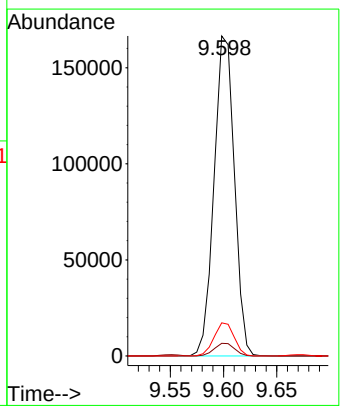


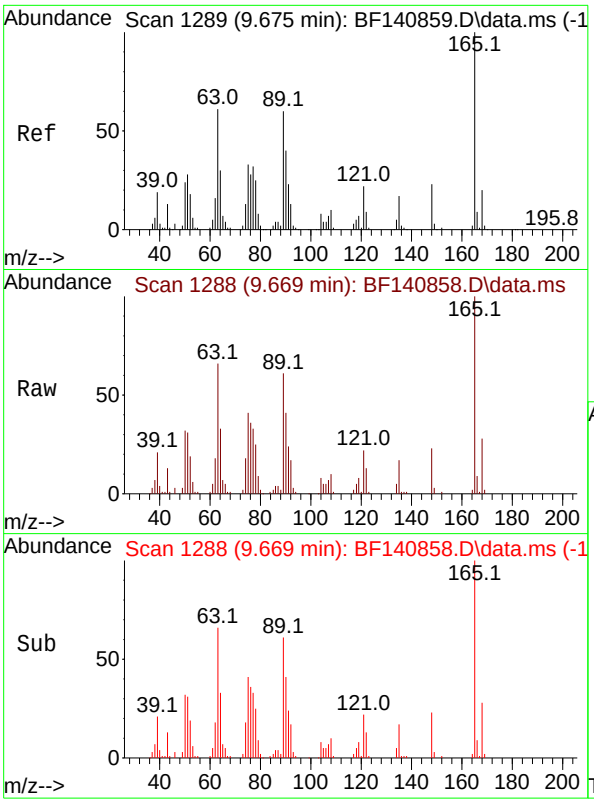


#50
Dimethylphthalate
Concen: 20.399 ng
RT: 9.598 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:163 Resp: 220880

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.1	12.1



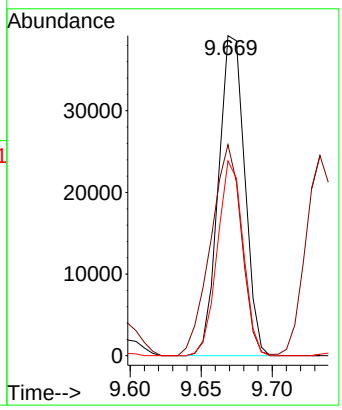


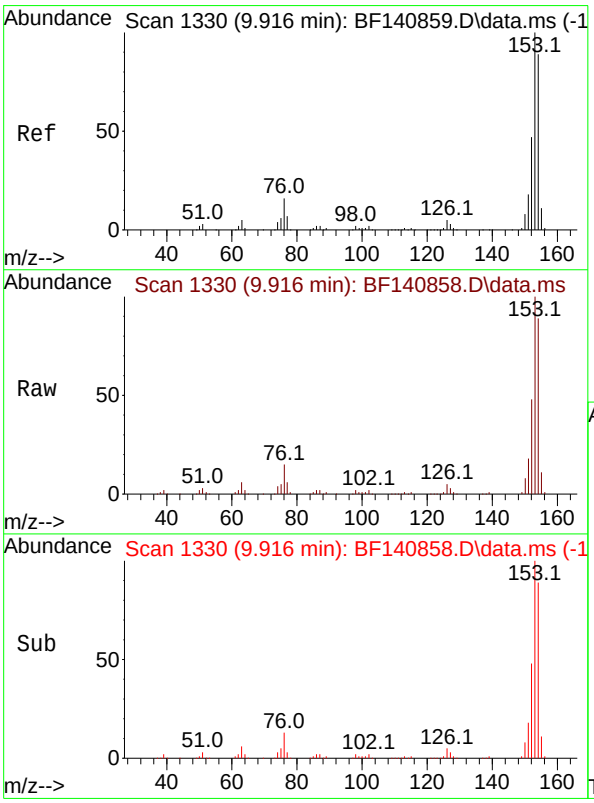
#51
2,6-Dinitrotoluene
Concen: 20.321 ng
RT: 9.669 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 50302

Ion	Ratio	Lower	Upper
165	100		
63	66.0	49.7	74.5
89	60.9	48.2	72.4

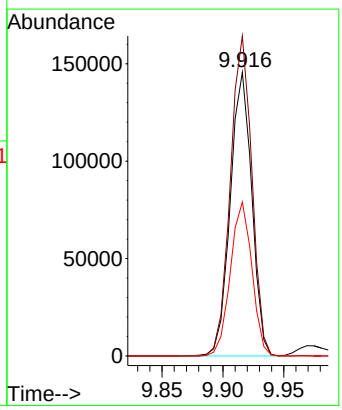


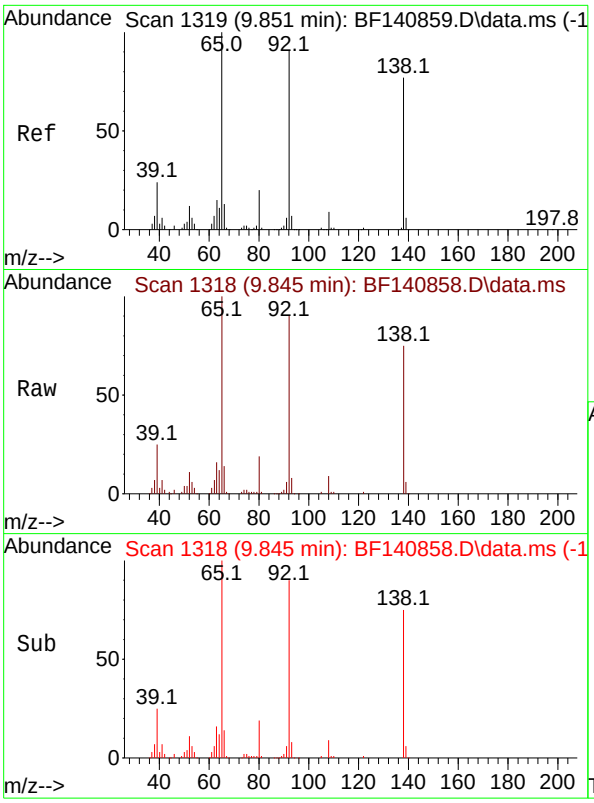


#52
Acenaphthene
Concen: 20.422 ng
RT: 9.916 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:154 Resp: 179112

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.9	134.9
152	54.2	42.6	63.8



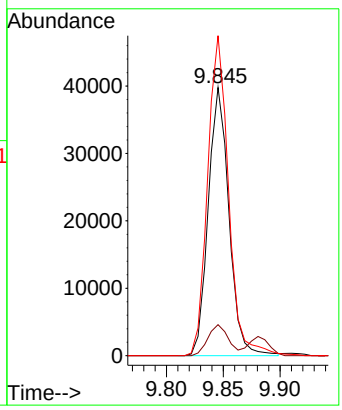


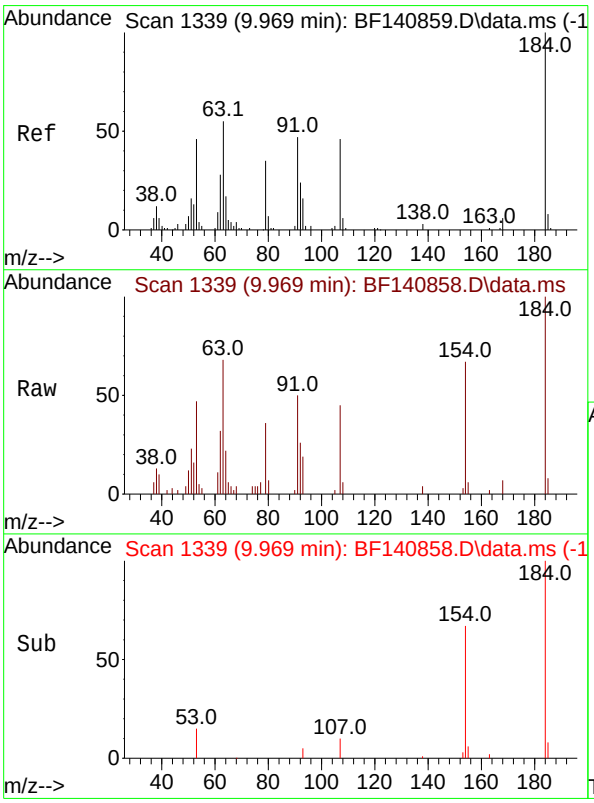
#53
3-Nitroaniline
Concen: 20.538 ng
RT: 9.845 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 50453

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.0	13.4
92	119.3	95.5	143.3

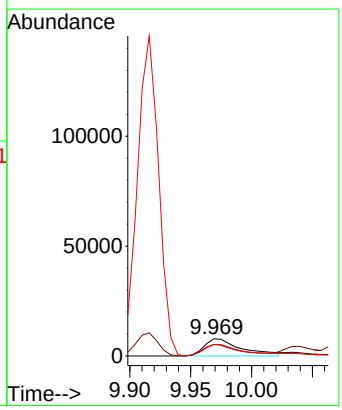


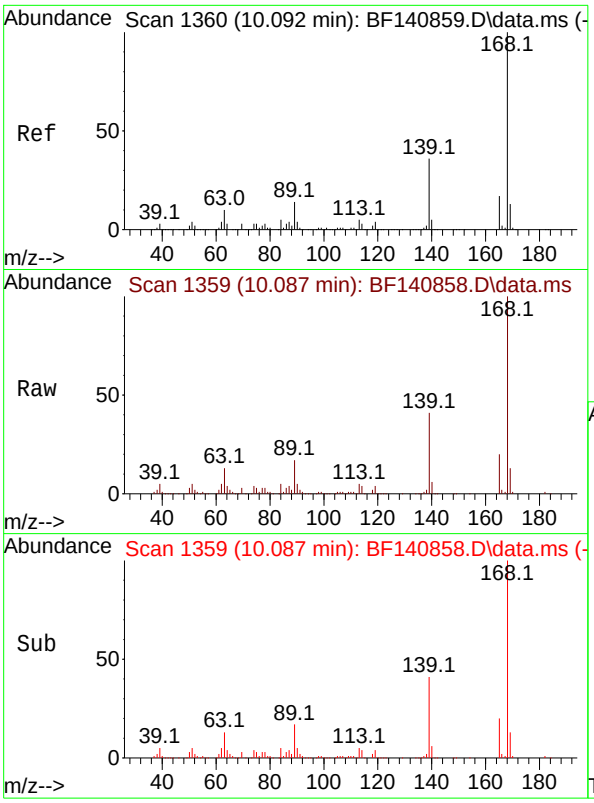


#54
2,4-Dinitrophenol
Concen: 19.139 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:184 Resp: 16571

Ion	Ratio	Lower	Upper
184	100		
63	67.6	51.6	77.4
154	67.1	56.1	84.1



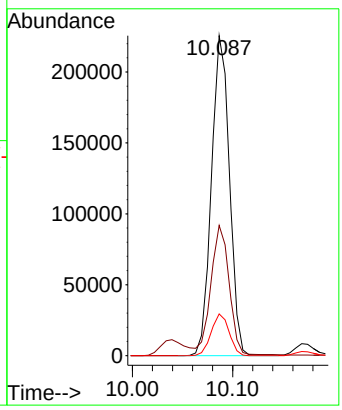


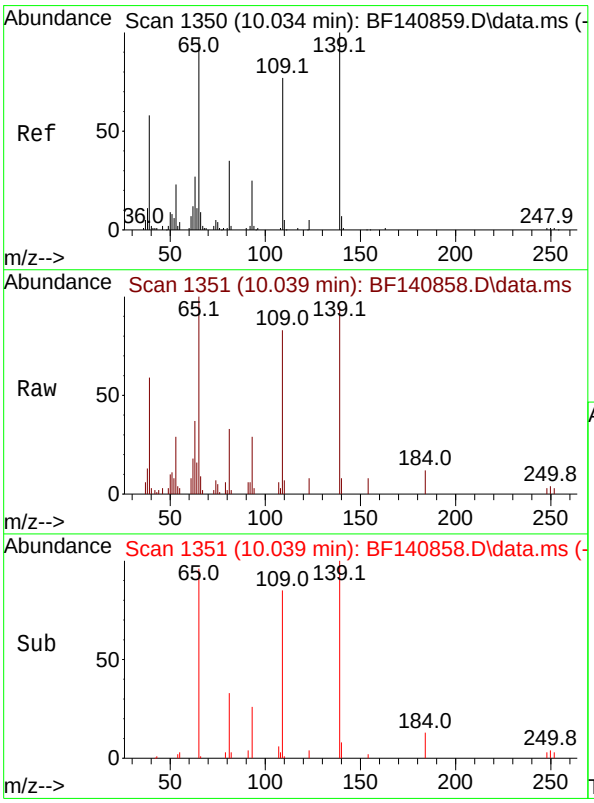
#55
Dibenzofuran
Concen: 20.683 ng
RT: 10.087 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 281092

Ion	Ratio	Lower	Upper
168	100		
139	40.7	31.1	46.7
169	13.1	10.6	16.0

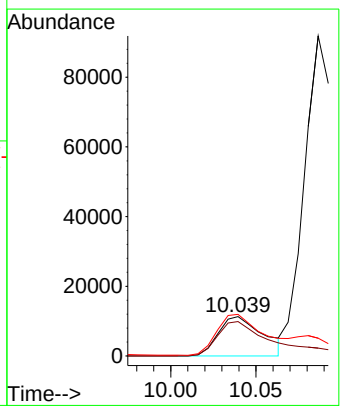


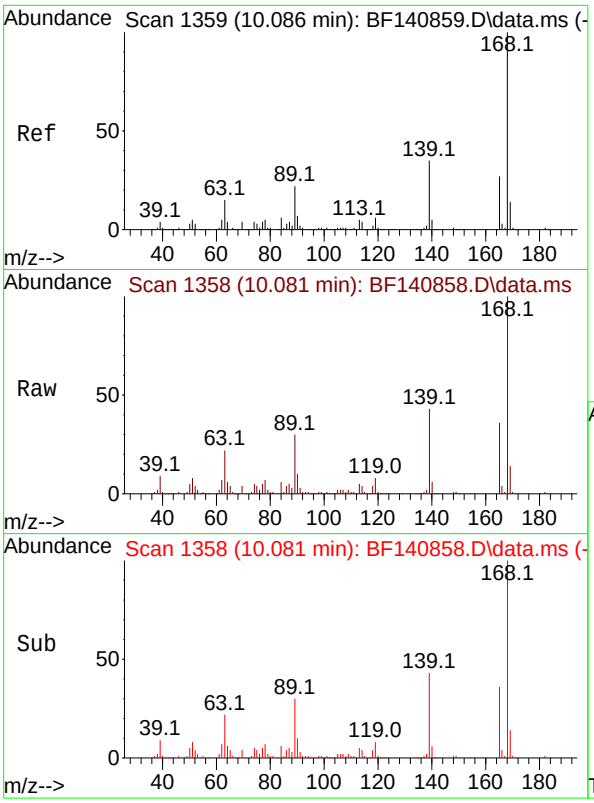


#56
4-Nitrophenol
Concen: 19.017 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.005 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:139 Resp: 20392

Ion	Ratio	Lower	Upper
139	100		
109	87.3	56.7	96.7
65	105.5	78.1	118.1



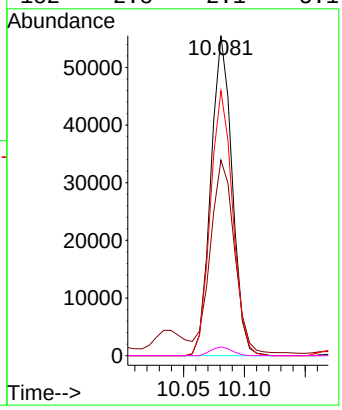


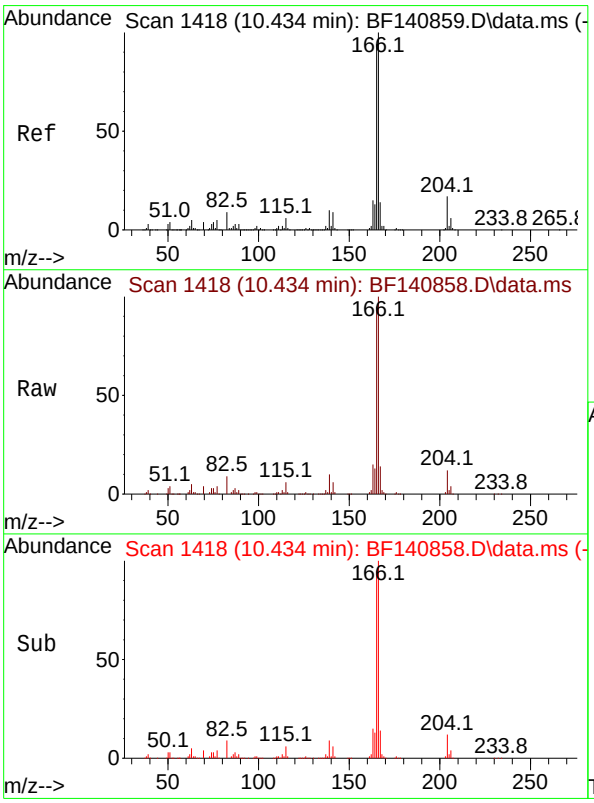
#57
2,4-Dinitrotoluene
Concen: 20.746 ng
RT: 10.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 67570

Ion	Ratio	Lower	Upper
165	100		
63	61.1	49.3	73.9
89	82.8	66.2	99.4
182	2.8	2.1	3.1

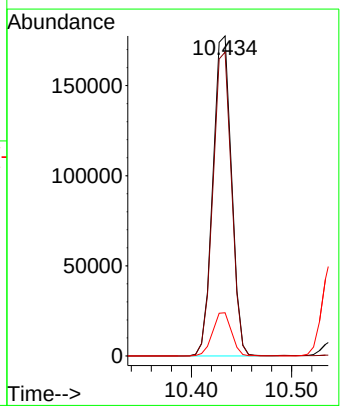


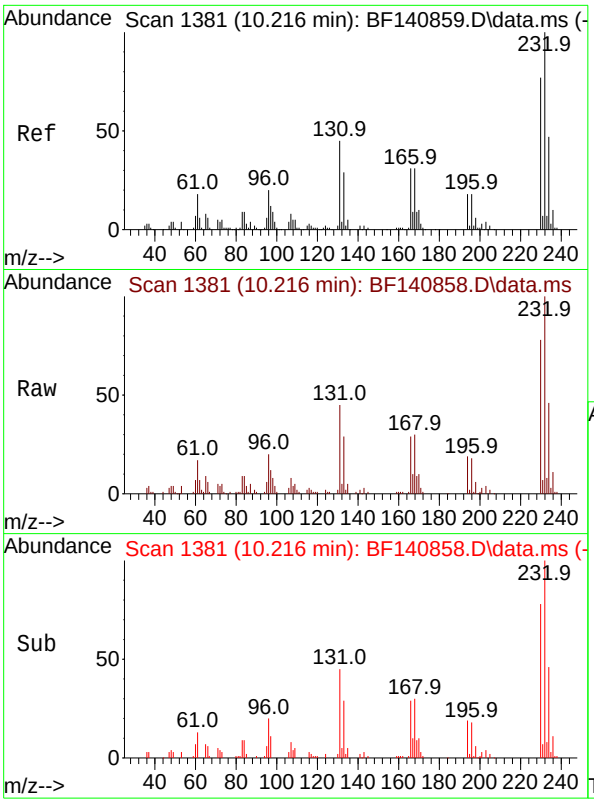


#58
Fluorene
Concen: 20.439 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:166 Resp: 229160

Ion	Ratio	Lower	Upper
166	100		
165	95.0	75.1	112.7
167	13.5	11.1	16.7



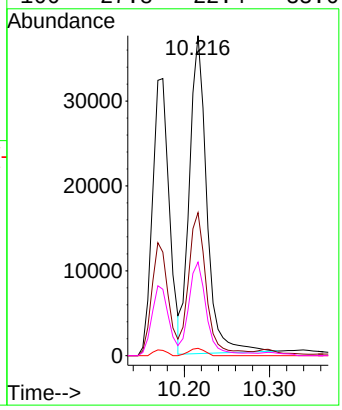


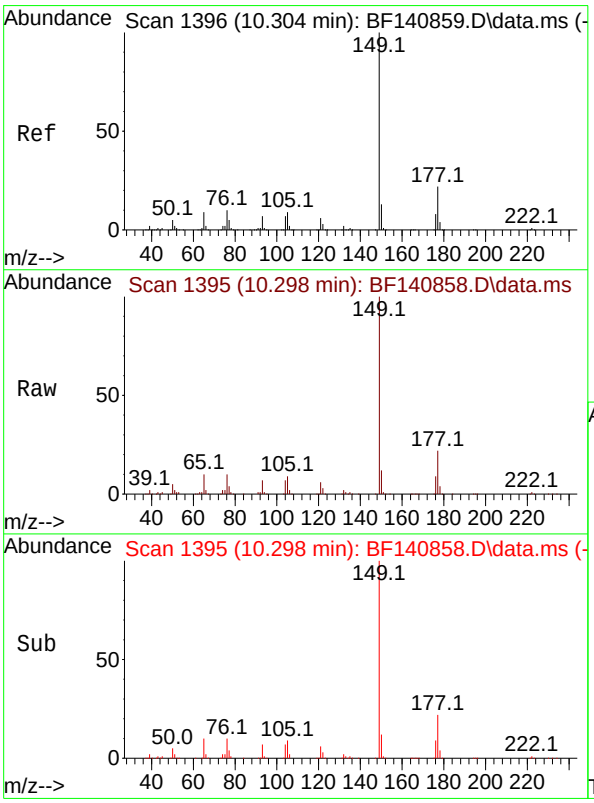
#59
2,3,4,6-Tetrachlorophenol
Concen: 20.459 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 52966

Ion	Ratio	Lower	Upper
232	100		
131	46.0	35.1	52.7
130	2.1	1.8	2.8
166	27.8	22.4	33.6

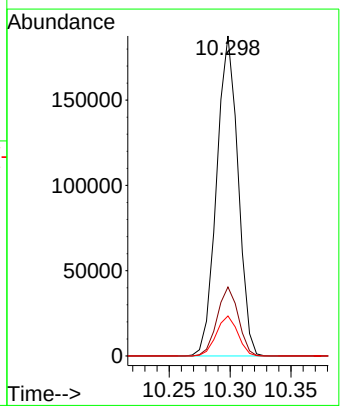


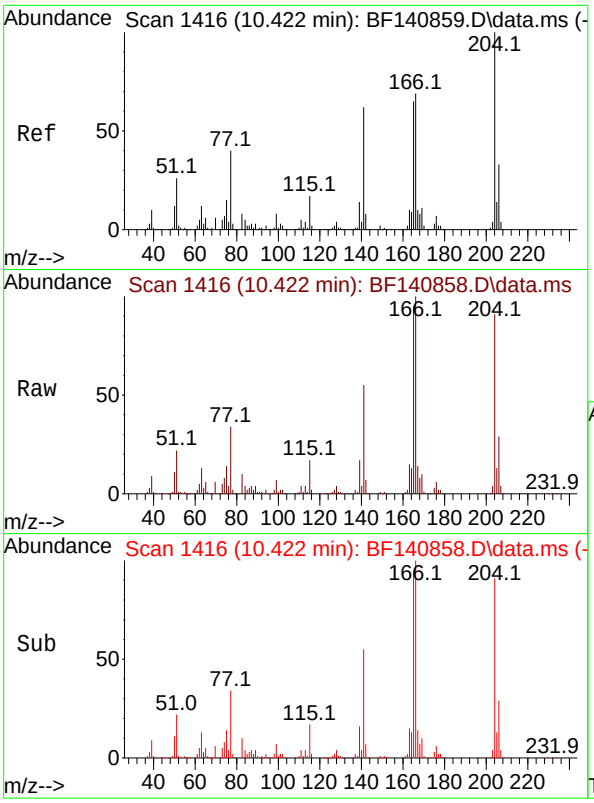


#60
Diethylphthalate
Concen: 20.466 ng
RT: 10.298 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 229798

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.2	25.8
150	12.5	10.1	15.1



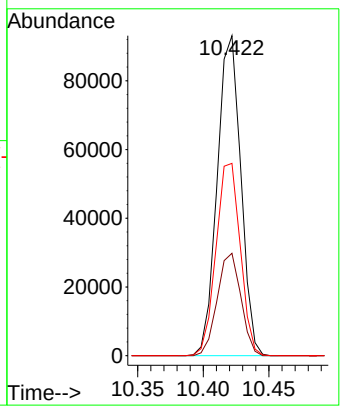


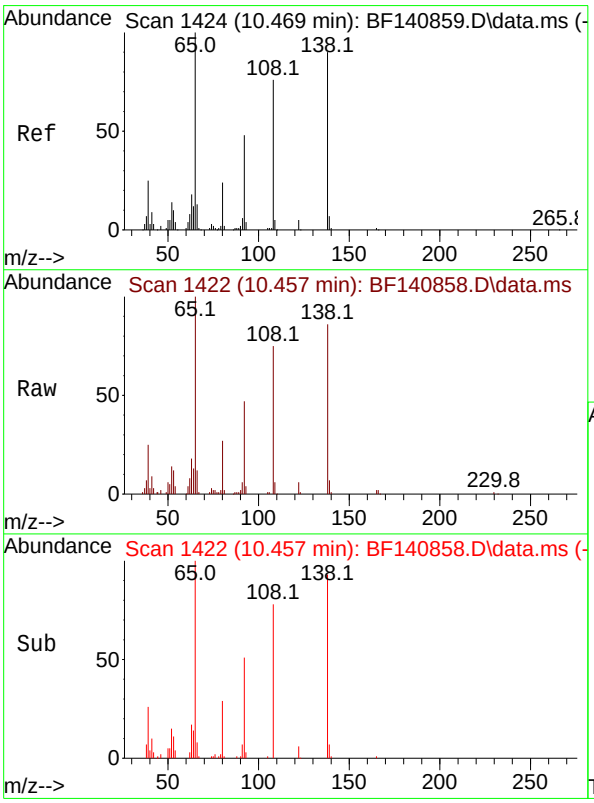
#61
4-Chlorophenyl-phenylether
Concen: 20.693 ng
RT: 10.422 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 116545

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.5	39.7
141	60.1	50.0	75.0

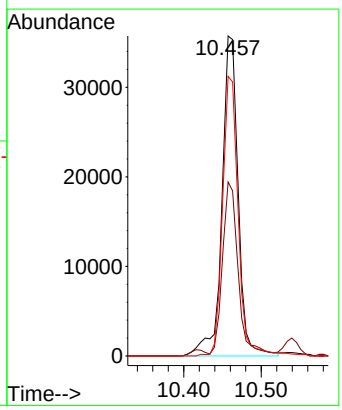


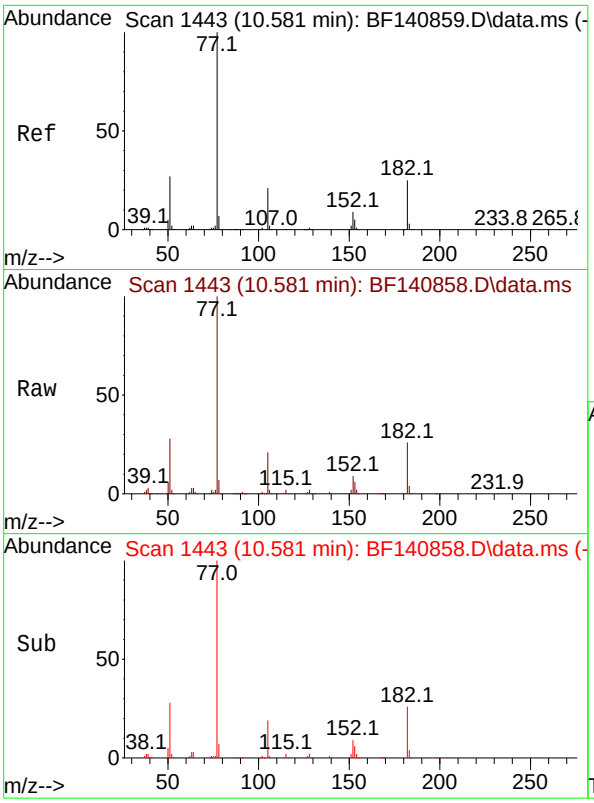


#62
4-Nitroaniline
Concen: 20.263 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:138 Resp: 52016

Ion	Ratio	Lower	Upper
138	100		
92	54.4	32.6	72.6
108	87.4	64.1	104.1



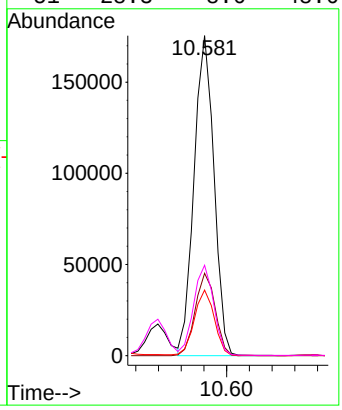


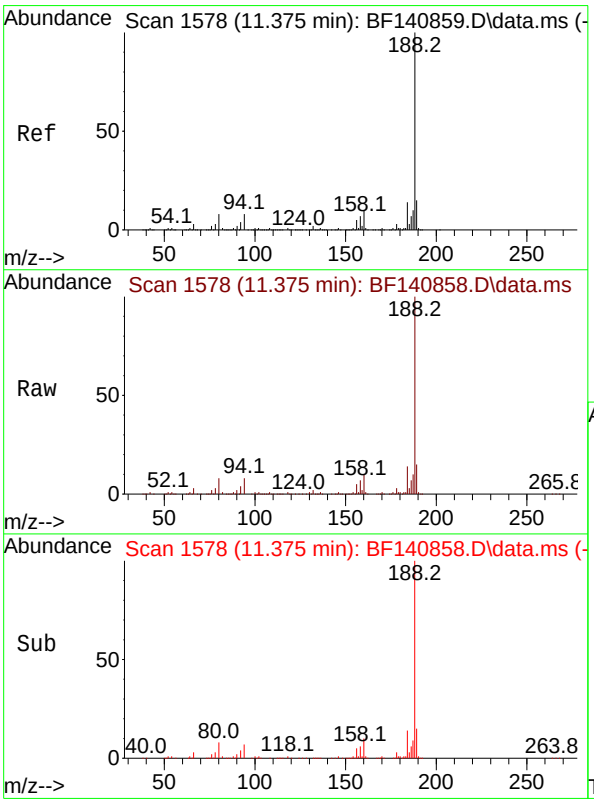
#63
Azobenzene
Concen: 20.286 ng
RT: 10.581 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 214137

Ion	Ratio	Lower	Upper
77	100		
182	25.8	4.5	44.5
105	20.5	0.9	40.9
51	28.3	8.6	48.6

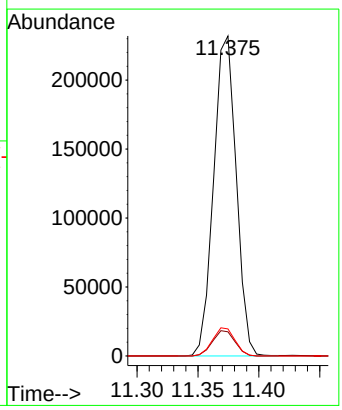


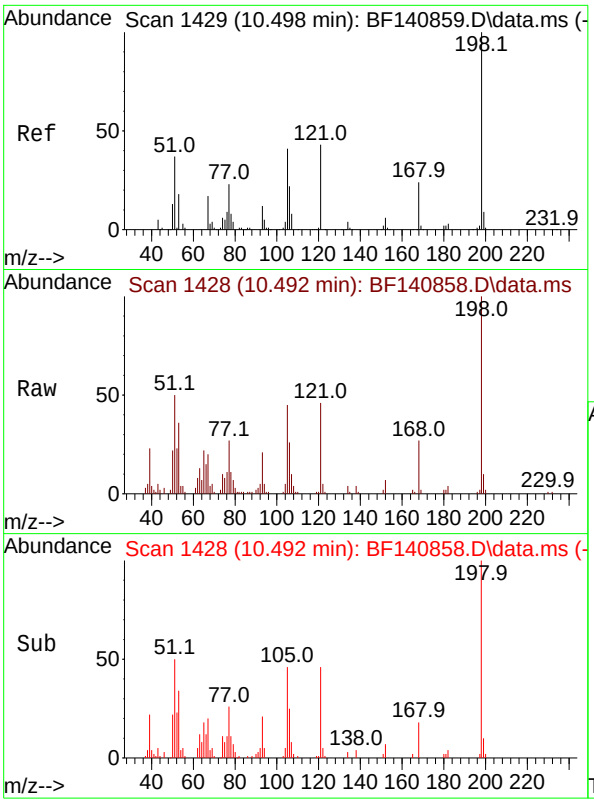


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:188 Resp: 299699

Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.4	9.6
80	8.4	6.8	10.2



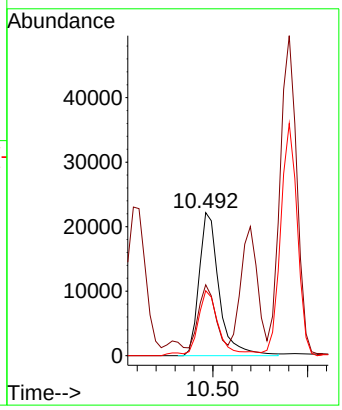


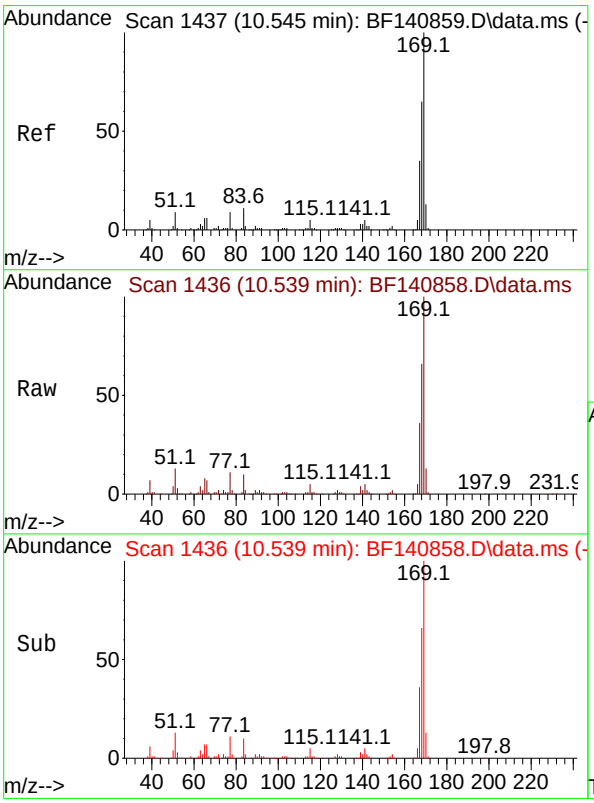
#65
4,6-Dinitro-2-methylphenol
Concen: 19.149 ng
RT: 10.492 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 32520

Ion	Ratio	Lower	Upper
198	100		
51	49.6	24.4	64.4
105	45.4	22.1	62.1

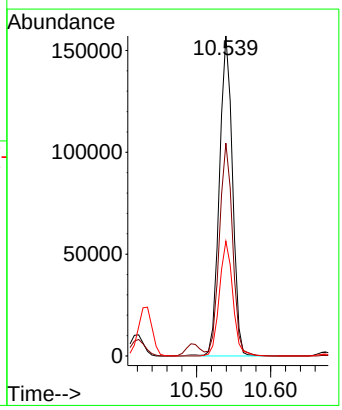


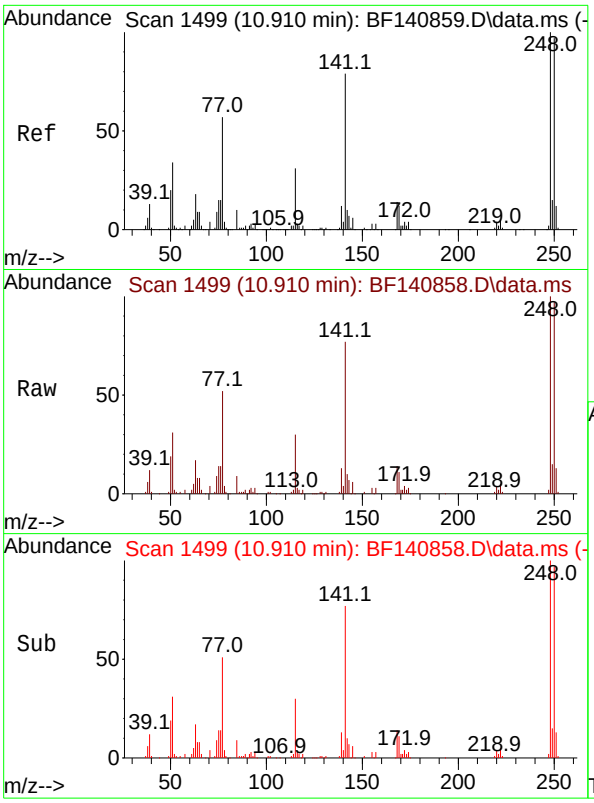


#66
n-Nitrosodiphenylamine
Concen: 20.932 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:169 Resp: 192873

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.4	80.0
167	35.9	28.3	42.5



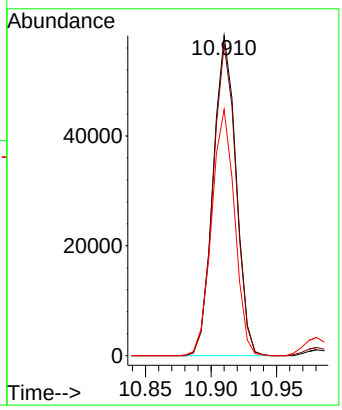


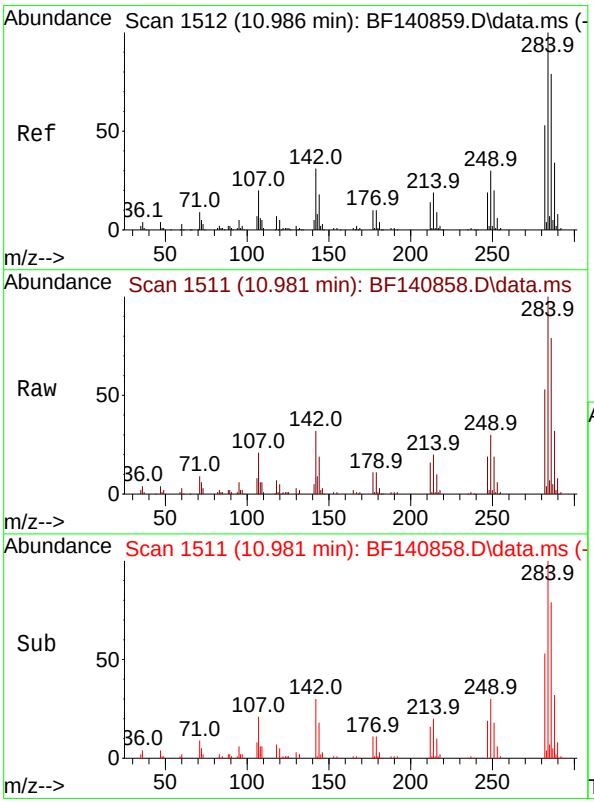
#67
4-Bromophenyl-phenylether
Concen: 21.118 ng
RT: 10.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 70804

Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.4	116.2
141	77.0	62.9	94.3

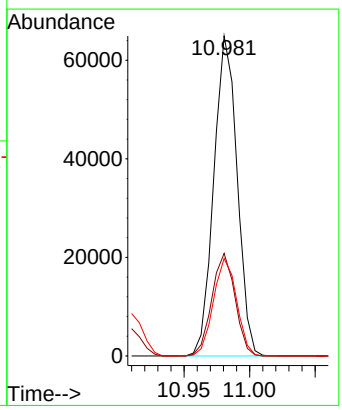


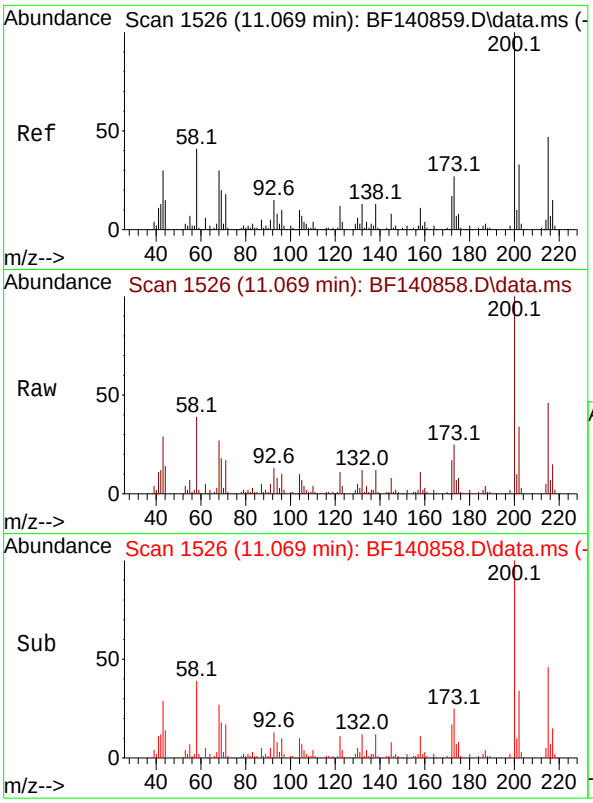


#68
Hexachlorobenzene
Concen: 21.095 ng
RT: 10.981 min Scan# 1511
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:284 Resp: 80189

Ion	Ratio	Lower	Upper
284	100		
142	32.0	24.6	36.8
249	30.5	24.3	36.5



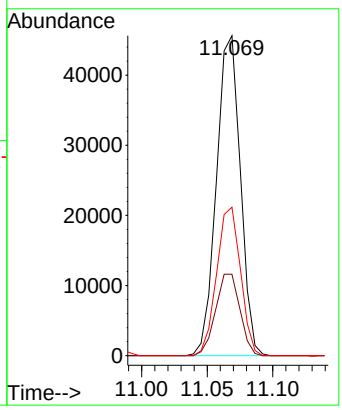


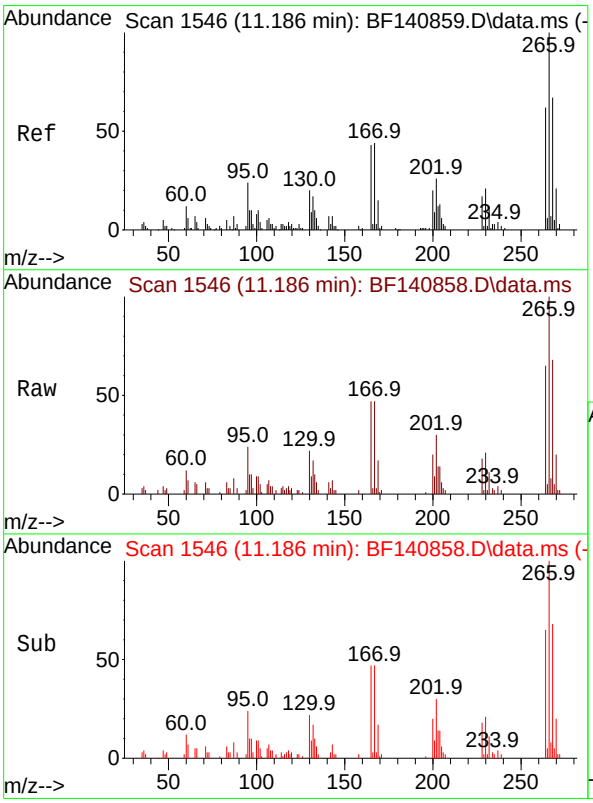
#69
Atrazine
Concen: 22.488 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 57872

Ion	Ratio	Lower	Upper
200	100		
173	25.5	6.6	46.6
215	46.4	26.7	66.7

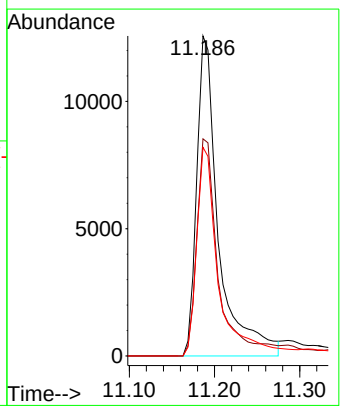


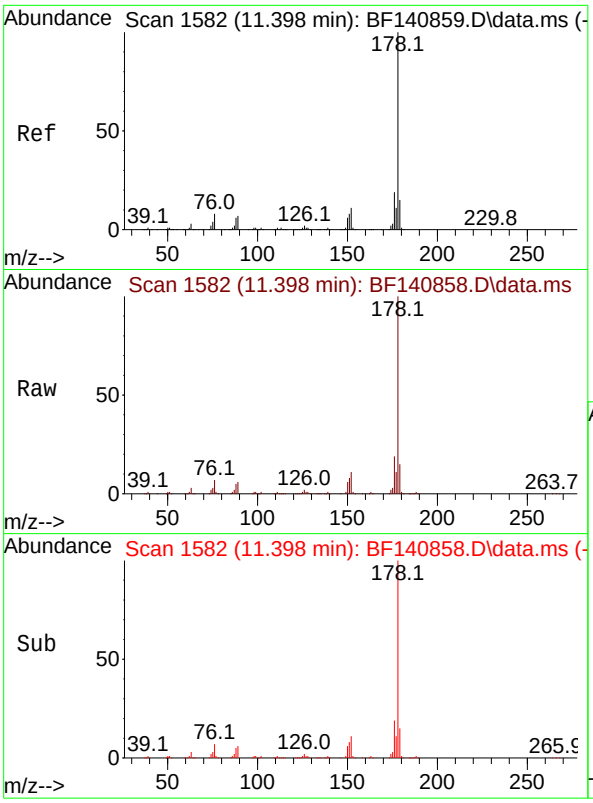


#70
Pentachlorophenol
Concen: 16.109 ng
RT: 11.186 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:266 Resp: 22401

Ion	Ratio	Lower	Upper
266	100		
268	67.9	54.0	81.0
264	65.2	49.4	74.2



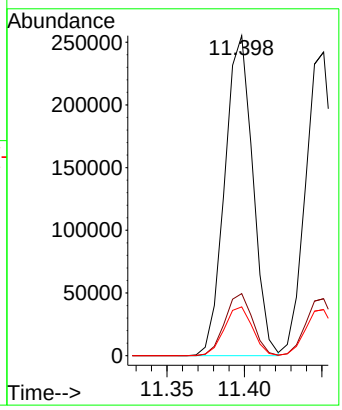


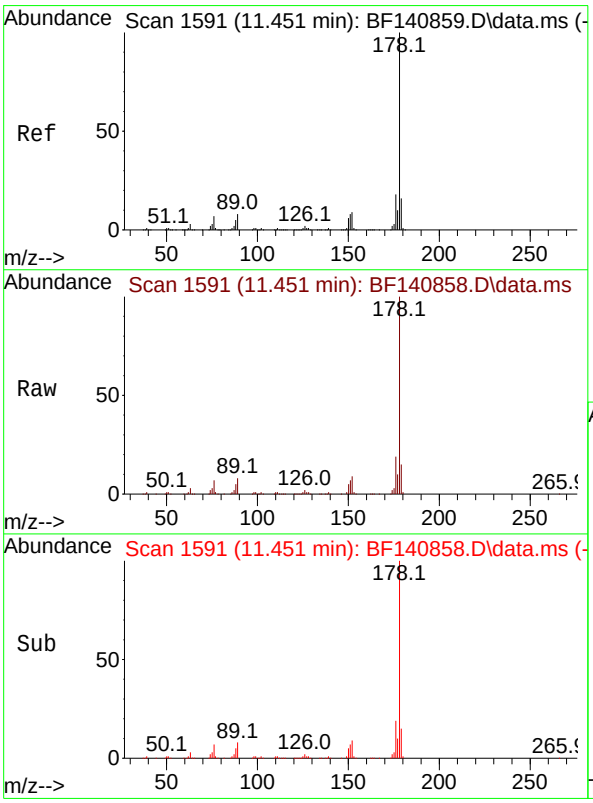
#71
Phenanthrene
Concen: 20.854 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 321392

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.3	12.1	18.1

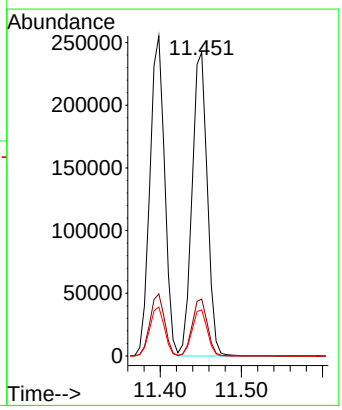


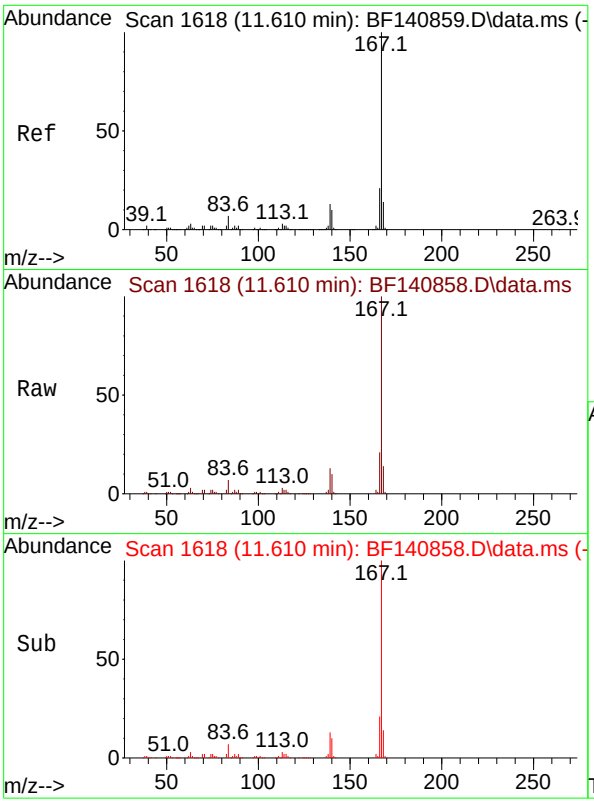


#72
Anthracene
Concen: 20.798 ng
RT: 11.451 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:178 Resp: 315664

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	22.0
179	15.2	12.6	18.8



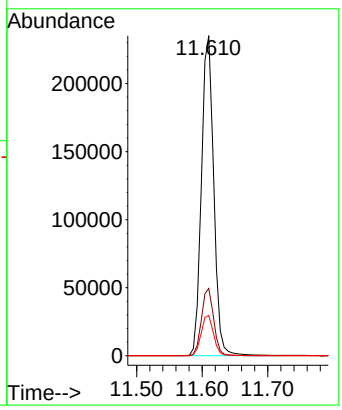


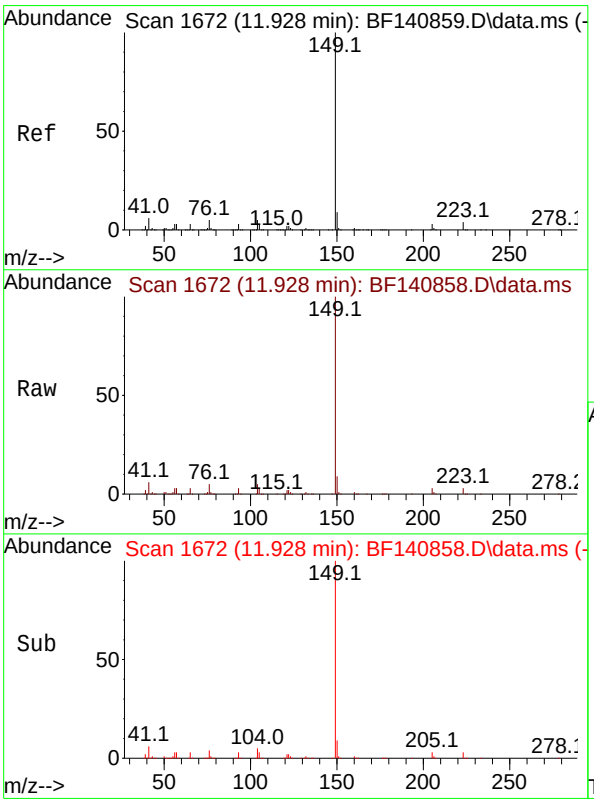
#73
Carbazole
Concen: 20.692 ng
RT: 11.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 307615

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.6
139	12.6	10.2	15.2

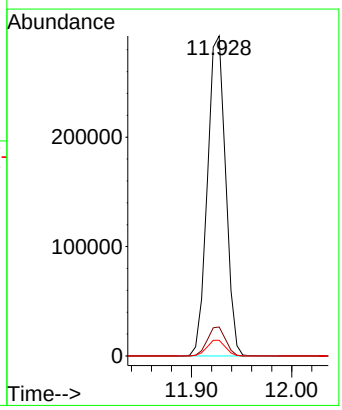


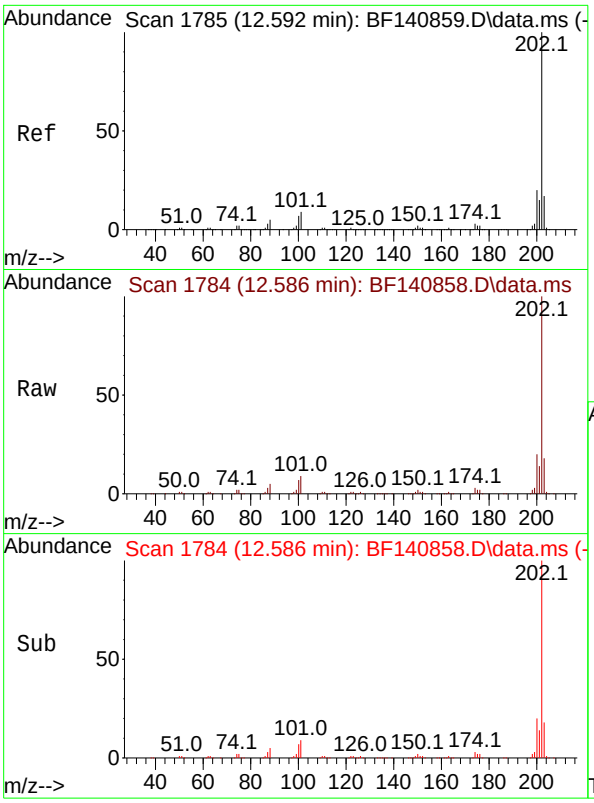


#74
Di-n-butylphthalate
Concen: 21.164 ng
RT: 11.928 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 369257

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.5	11.3
104	4.9	3.8	5.8



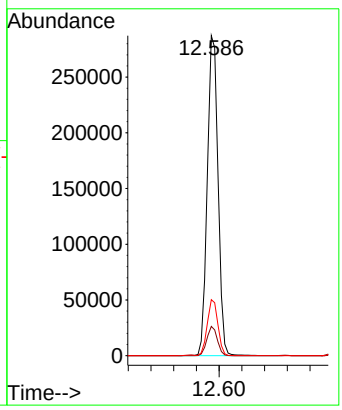


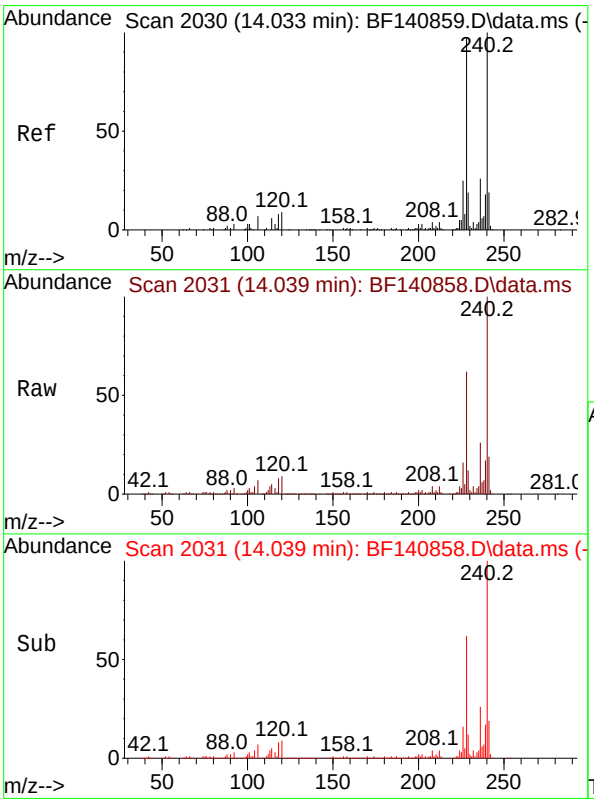
#75
Fluoranthene
Concen: 21.122 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 374894

Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	29.3
203	17.5	0.0	37.4

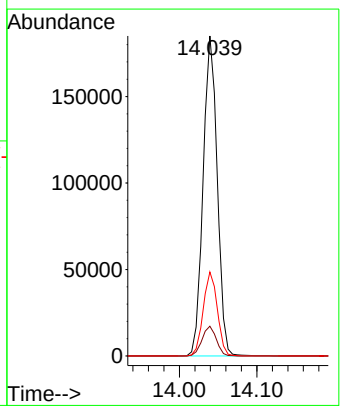


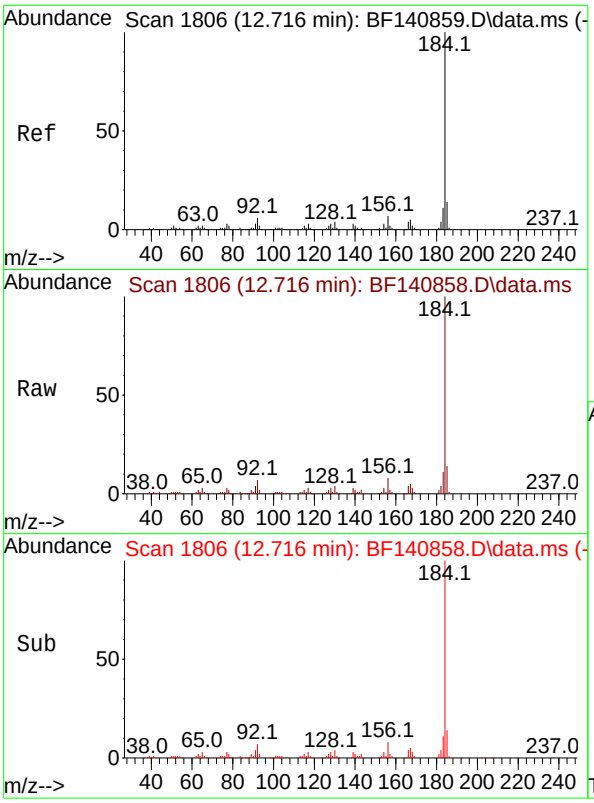


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:240 Resp: 234229

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.6	11.4
236	26.3	20.5	30.7



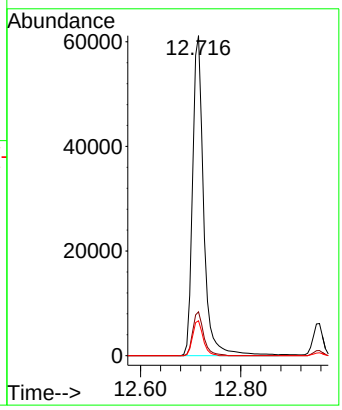


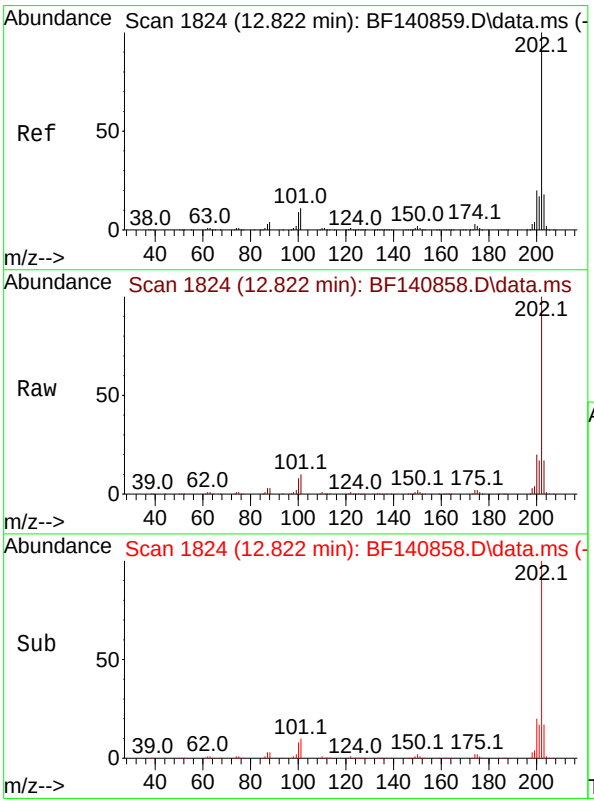
#77
Benzidine
Concen: 19.660 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 93986

Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.1	16.7
183	10.9	9.0	13.4

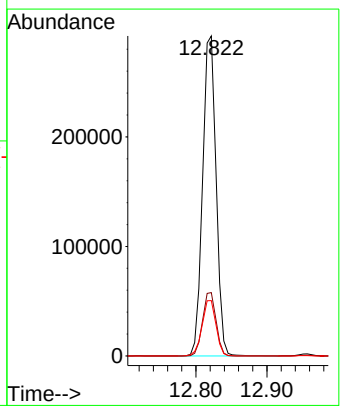


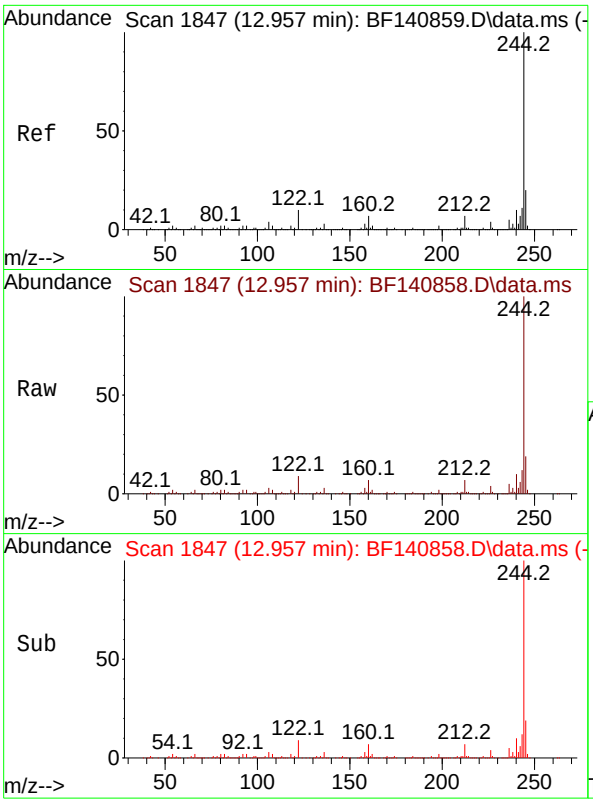


#78
Pyrene
Concen: 18.558 ng
RT: 12.822 min Scan# 1824
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:202 Resp: 386539

Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.1	24.1
203	17.3	14.2	21.4



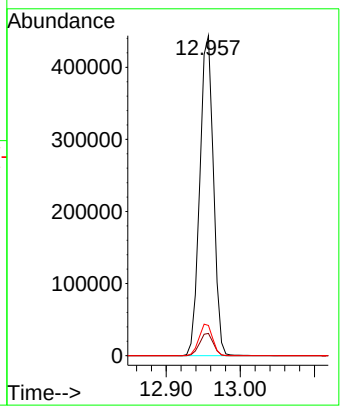


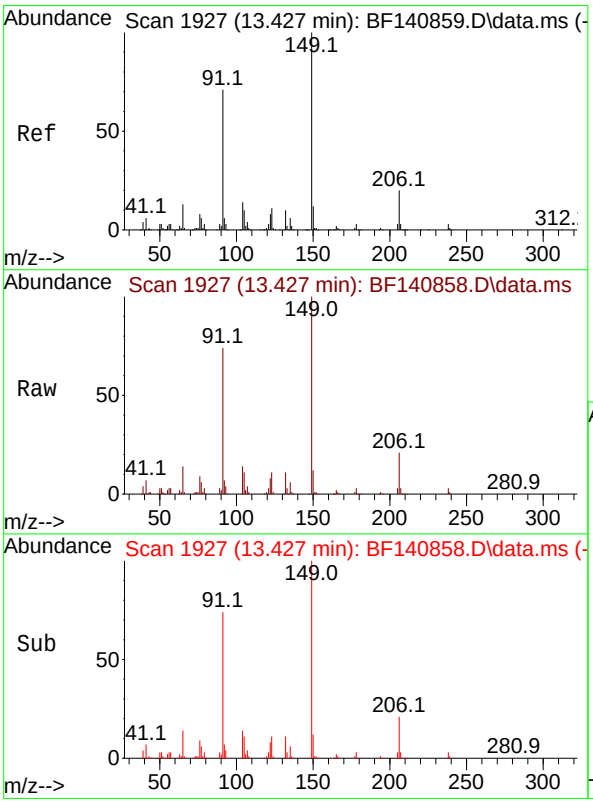
#79
Terphenyl-d14
Concen: 38.416 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 570640

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.5	8.2	12.2

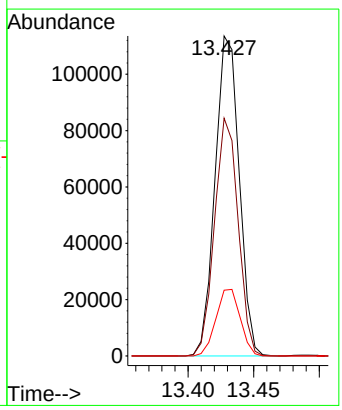


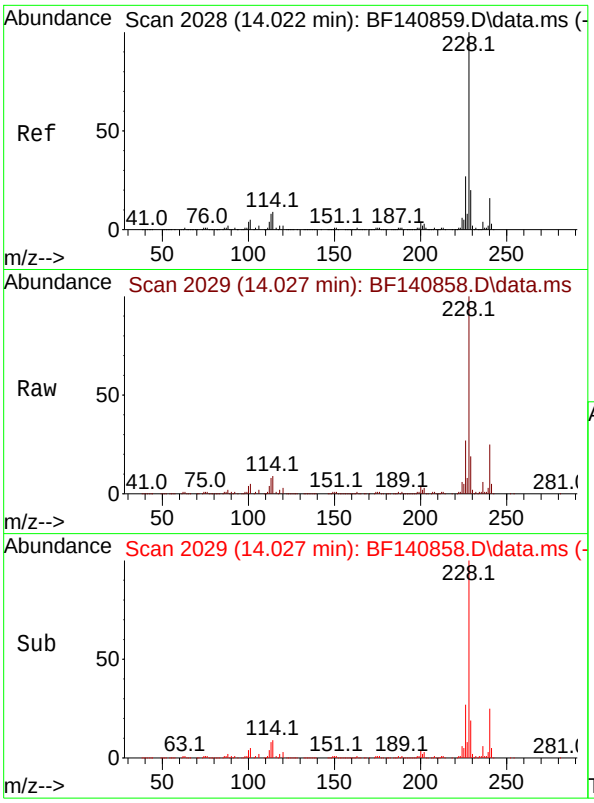


#80
Butylbenzylphthalate
Concen: 18.972 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 145401

Ion	Ratio	Lower	Upper
149	100		
91	74.3	56.7	85.1
206	20.6	16.4	24.6



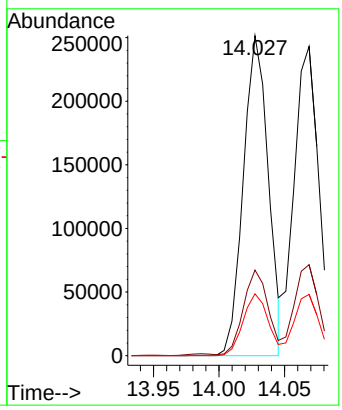


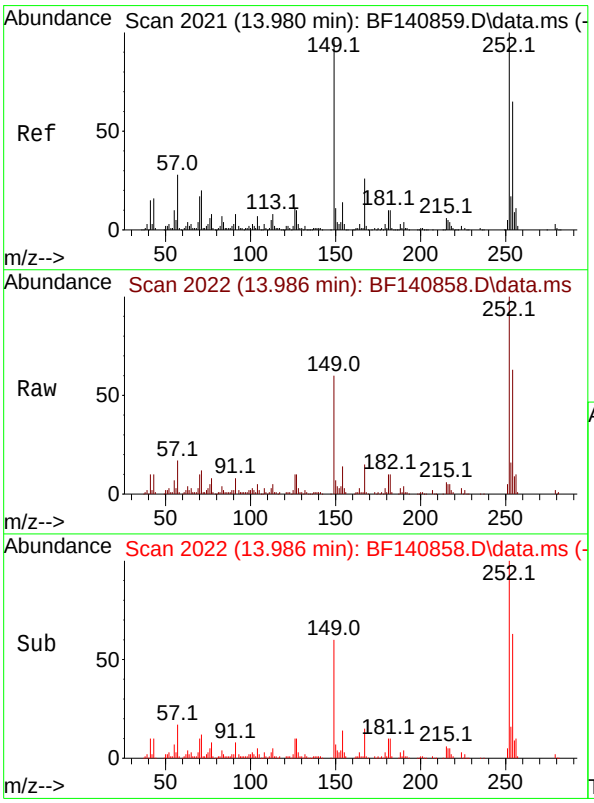
#81
Benzo(a)anthracene
Concen: 20.050 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 332845

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.3	15.8	23.8

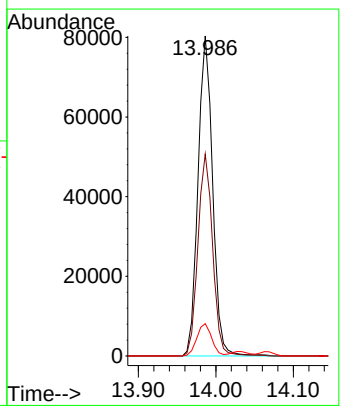


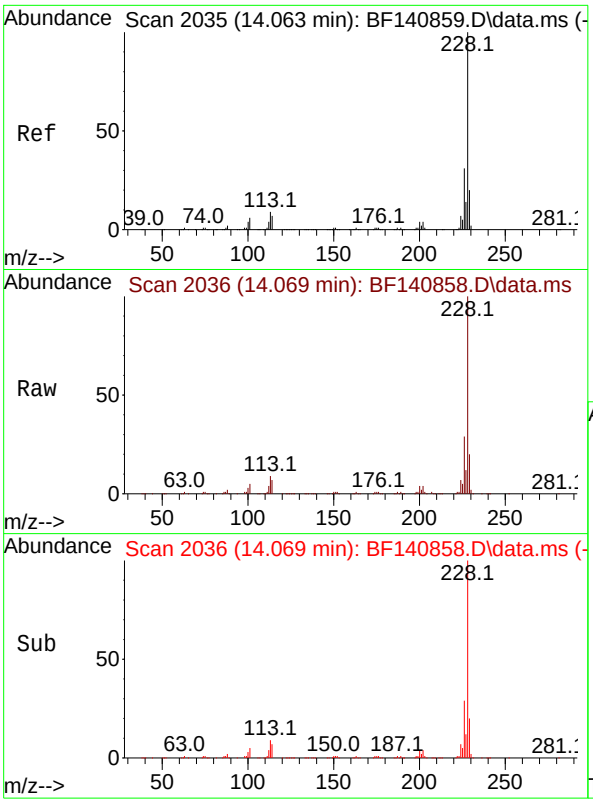


#82
3,3'-Dichlorobenzidine
Concen: 20.989 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:252 Resp: 105124

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.3	78.5
126	10.1	8.4	12.6



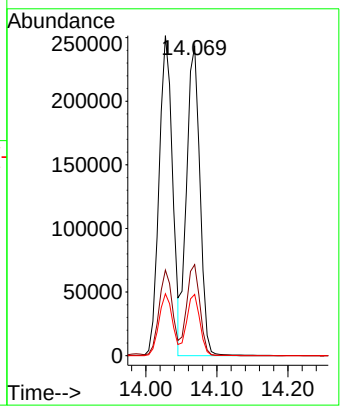


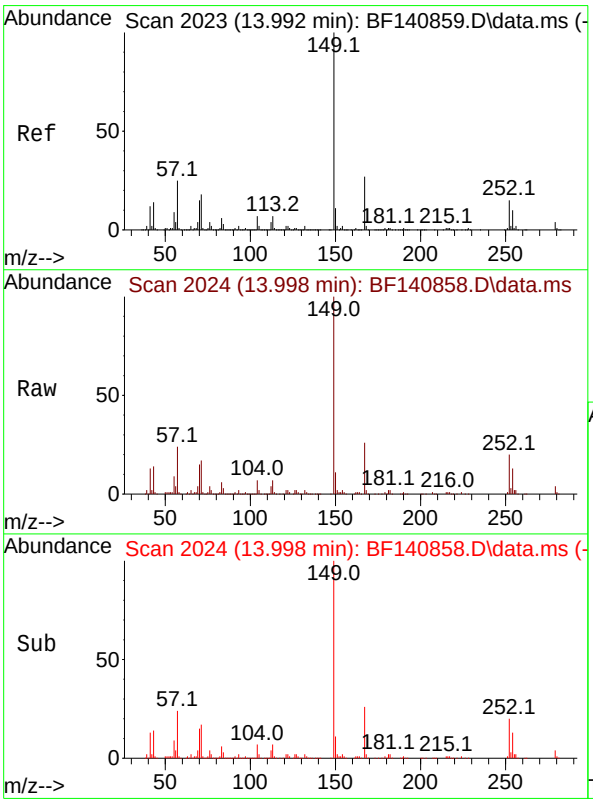
#83
Chrysene
Concen: 21.160 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 319417

Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.1	36.1
229	19.8	16.0	24.0

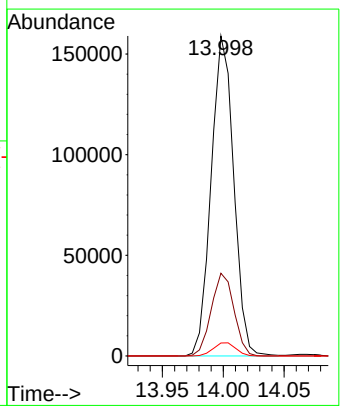


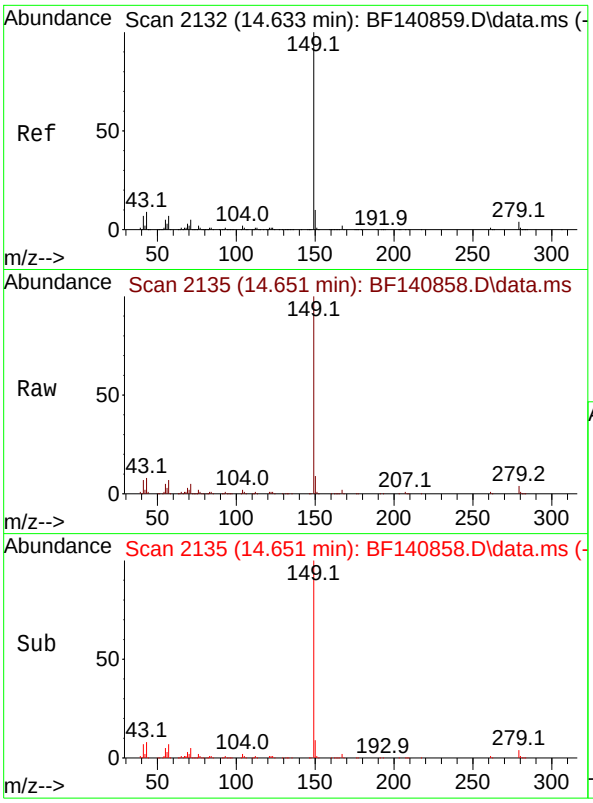


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.740 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:149 Resp: 204953

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.8	32.8
279	4.0	3.5	5.3



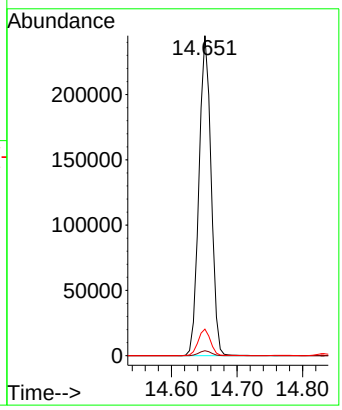


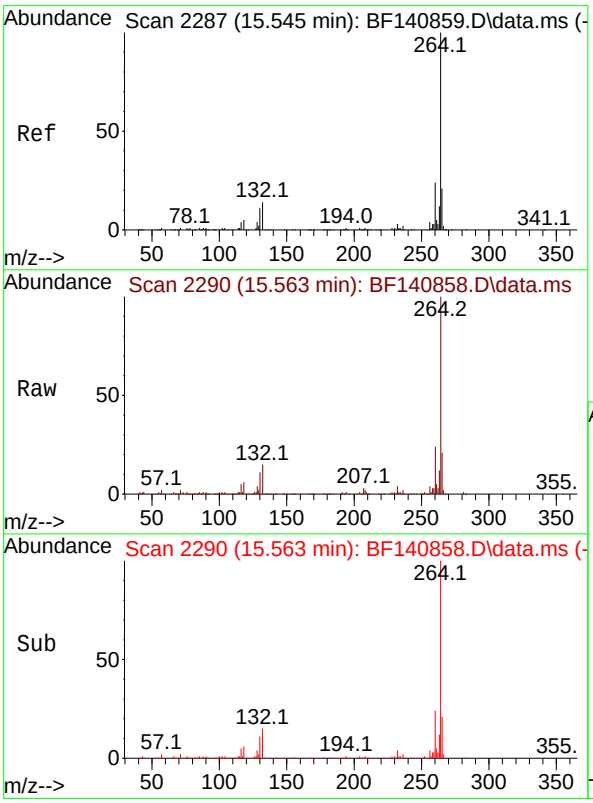
#85
Di-n-octyl phthalate
Concen: 21.125 ng
RT: 14.651 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 315841

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	7.0	10.6

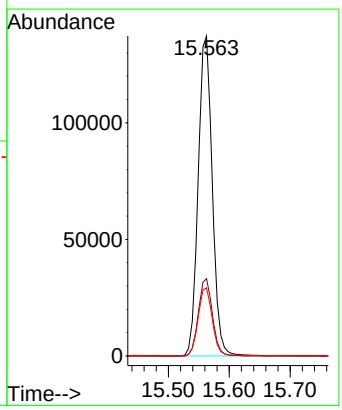


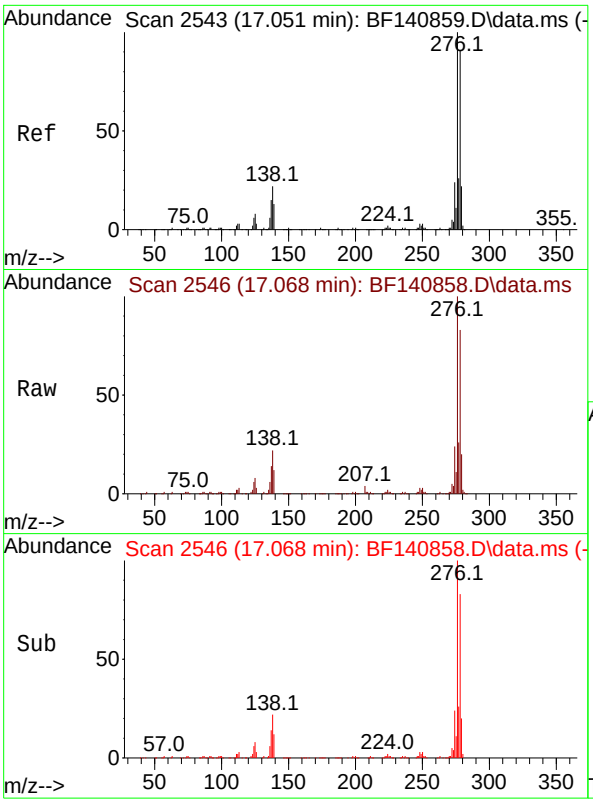


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 2290
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:264 Resp: 220576

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.1	28.7
265	21.3	17.0	25.4



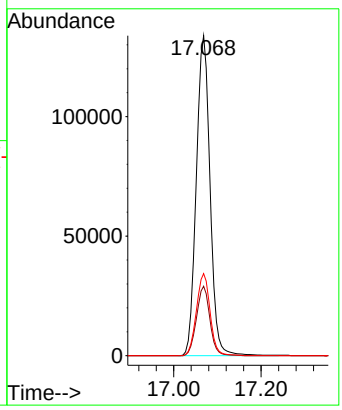


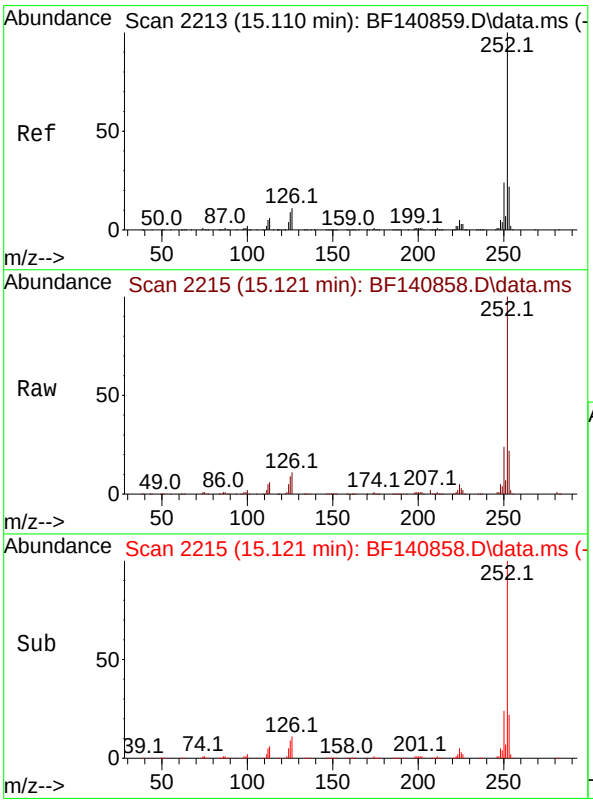
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.315 ng
RT: 17.068 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 293402

Ion	Ratio	Lower	Upper
276	100		
138	21.1	16.9	25.3
277	25.5	20.2	30.4

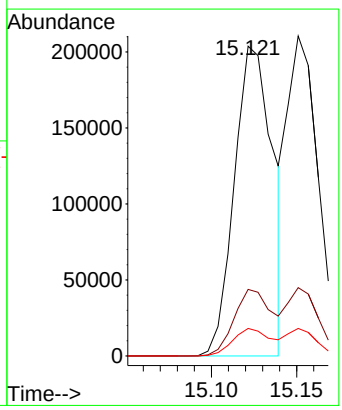


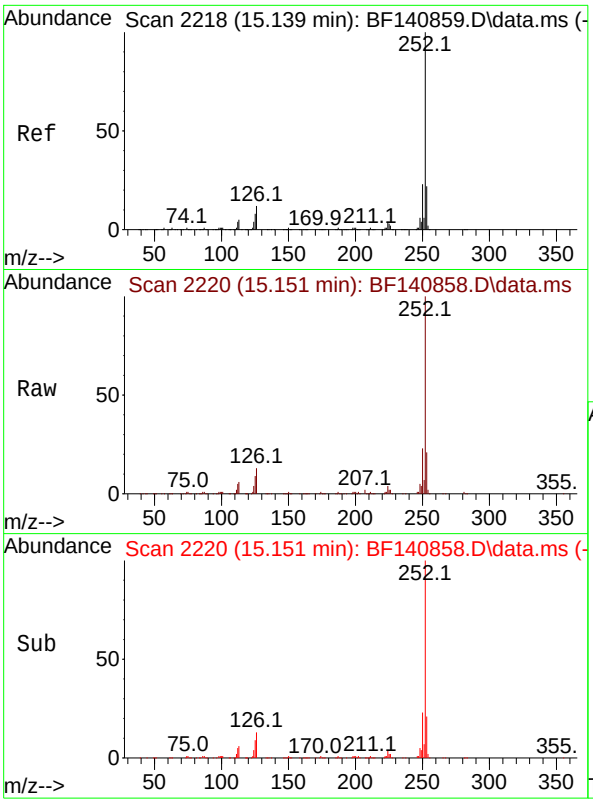


#88
Benzo(b)fluoranthene
Concen: 20.890 ng
RT: 15.121 min Scan# 2215
Delta R.T. 0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:252 Resp: 319848

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	8.9	7.0	10.4



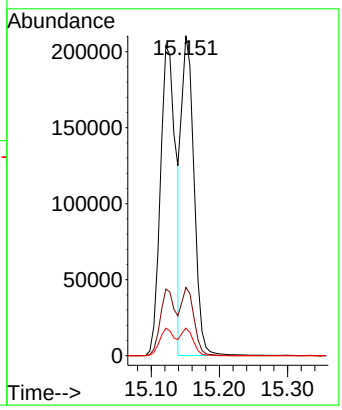


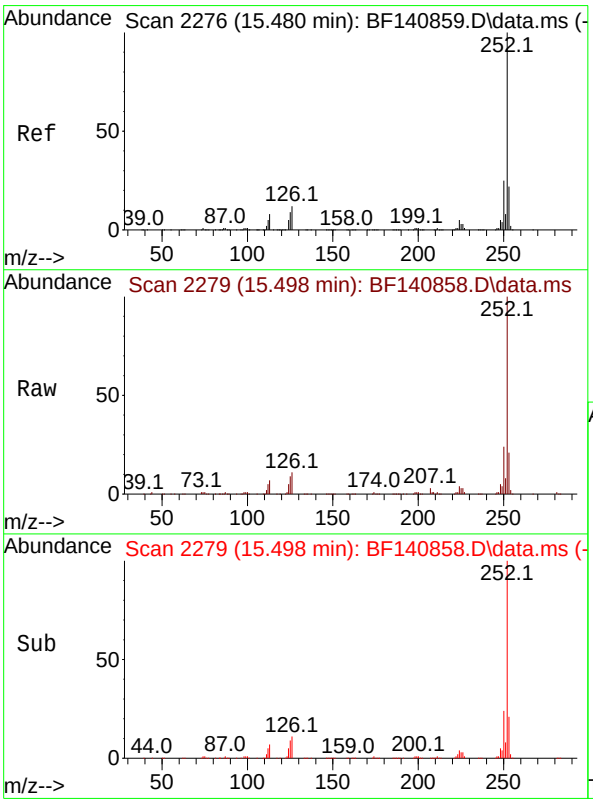
#89
Benzo(k)fluoranthene
Concen: 20.548 ng
RT: 15.151 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 269871

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.5	26.3
125	8.6	6.8	10.2

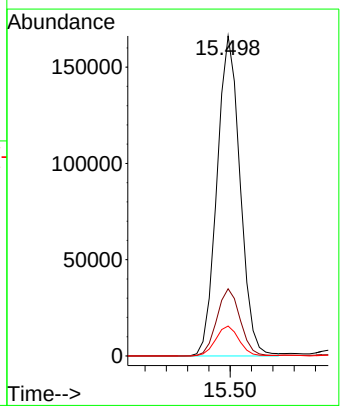


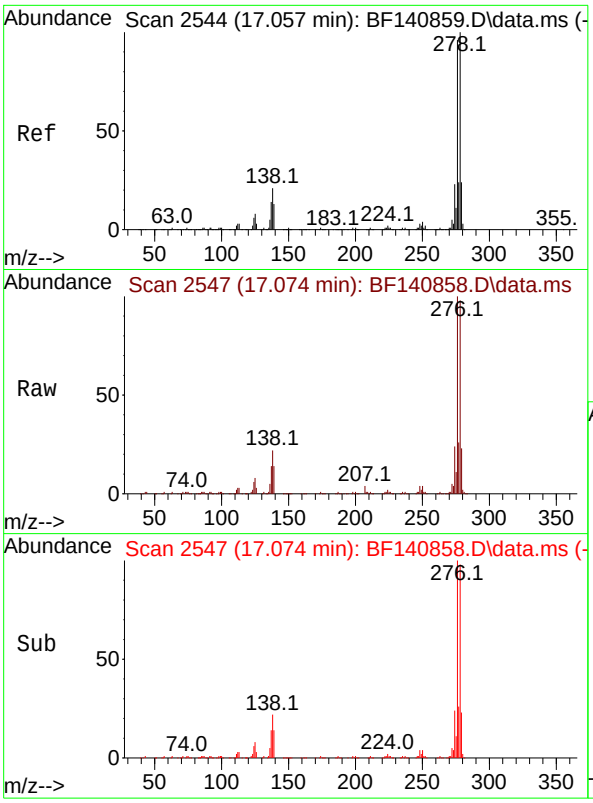


#90
Benzo(a)pyrene
Concen: 20.861 ng
RT: 15.498 min Scan# 2279
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:252 Resp: 250110

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.5	26.3
125	9.4	7.5	11.3



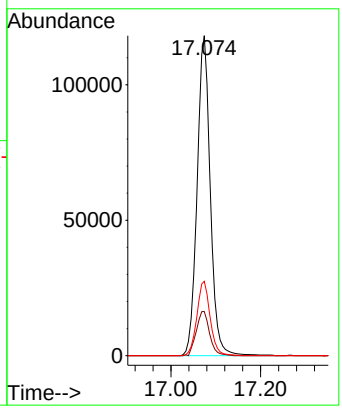


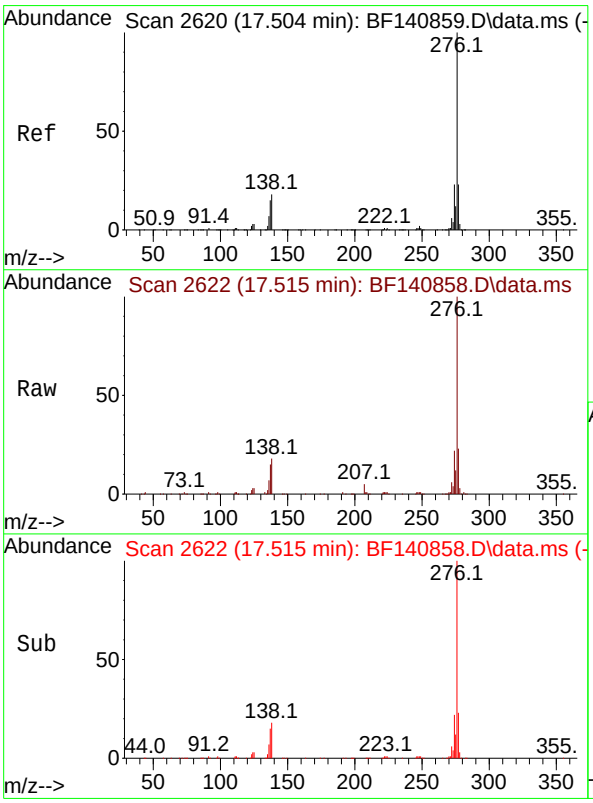
#91
Dibenzo(a,h)anthracene
Concen: 21.117 ng
RT: 17.074 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 240810

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	23.3	19.2	28.8

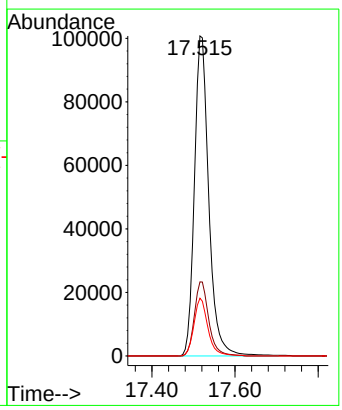




#92
Benzo(g,h,i)perylene
Concen: 20.785 ng
RT: 17.515 min Scan# 2622
Delta R.T. 0.012 min
Lab File: BF140858.D
Acq: 16 Dec 2024 14:00

Tgt Ion:276 Resp: 241228

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	18.0	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140862.D
Acq On : 16 Dec 2024 16:15
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Dec 16 16:52:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	82694	20.000	ng		0.00
21) Naphthalene-d8	8.134	136	323165	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	169321	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	364516	20.000	ng		0.00
76) Chrysene-d12	14.033	240	182739	20.000	ng		0.00
86) Perylene-d12	15.539	264	171569	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	732058	145.730	ng		0.00
7) Phenol-d6	6.510	99	982302	147.637	ng		0.01
23) Nitrobenzene-d5	7.428	82	947083	146.623	ng		0.01
42) 2,4,6-Tribromophenol	10.686	330	304721	152.164	ng		0.00
45) 2-Fluorobiphenyl	9.210	172	2054327	166.807	ng		0.00
79) Terphenyl-d14	12.963	244	2018997	174.221	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.616	88	162832	75.255	ng		98
3) Pyridine	3.399	79	375906	75.017	ng		99
4) n-Nitrosodimethylamine	3.375	42	194050	76.818	ng		97
6) Aniline	6.528	93	399627	70.247	ng		92
8) 2-Chlorophenol	6.651	128	406710	74.245	ng		99
9) Benzaldehyde	6.410	77	219459	59.528	ng		99
10) Phenol	6.522	94	507289	73.564	ng		100
11) bis(2-Chloroethyl)ether	6.593	93	389038	75.649	ng		99
12) 1,3-Dichlorobenzene	6.792	146	461108	73.871	ng		99
13) 1,4-Dichlorobenzene	6.869	146	462233	72.952	ng		99
14) 1,2-Dichlorobenzene	7.022	146	437177	73.129	ng		98
15) Benzyl Alcohol	7.004	79	349382	73.442	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.122	45	449685	74.228	ng		85
17) 2-Methylphenol	7.122	107	328432	75.095	ng		99
18) Hexachloroethane	7.357	117	176920	75.005	ng		98
19) n-Nitroso-di-n-propyla...	7.275	70	288752	72.349	ng		99
20) 3+4-Methylphenols	7.275	107	421165	72.622	ng		97
22) Acetophenone	7.269	105	576358	71.295	ng	#	99
24) Nitrobenzene	7.445	77	484693	73.246	ng		98
25) Isophorone	7.681	82	815074	75.310	ng		99
26) 2-Nitrophenol	7.757	139	232926	76.426	ng		98
27) 2,4-Dimethylphenol	7.798	122	270864	76.101	ng		98
28) bis(2-Chloroethoxy)met...	7.881	93	508754	75.263	ng		98
29) 2,4-Dichlorophenol	8.004	162	374434	76.199	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	420429	74.635	ng		99
31) Naphthalene	8.157	128	1318982	74.301	ng		100
32) Benzoic acid	7.969	122	284705	84.342	ng		98
33) 4-Chloroaniline	8.216	127	451539	76.586	ng		99
34) Hexachlorobutadiene	8.263	225	282790	74.615	ng		99
35) Caprolactam	8.616	113	104669	71.548	ng		99
36) 4-Chloro-3-methylphenol	8.704	107	449654	81.301	ng		97
37) 2-Methylnaphthalene	8.845	142	942892	80.295	ng		100
38) 1-Methylnaphthalene	8.945	142	925535	79.695	ng		100
40) 1,2,4,5-Tetrachloroben...	9.010	216	466438	89.625	ng		99
41) Hexachlorocyclopentadiene	8.992	237	149909	80.025	ng		99
43) 2,4,6-Trichlorophenol	9.134	196	301828	94.714	ng		100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140862.D
Acq On : 16 Dec 2024 16:15
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Dec 16 16:52:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration

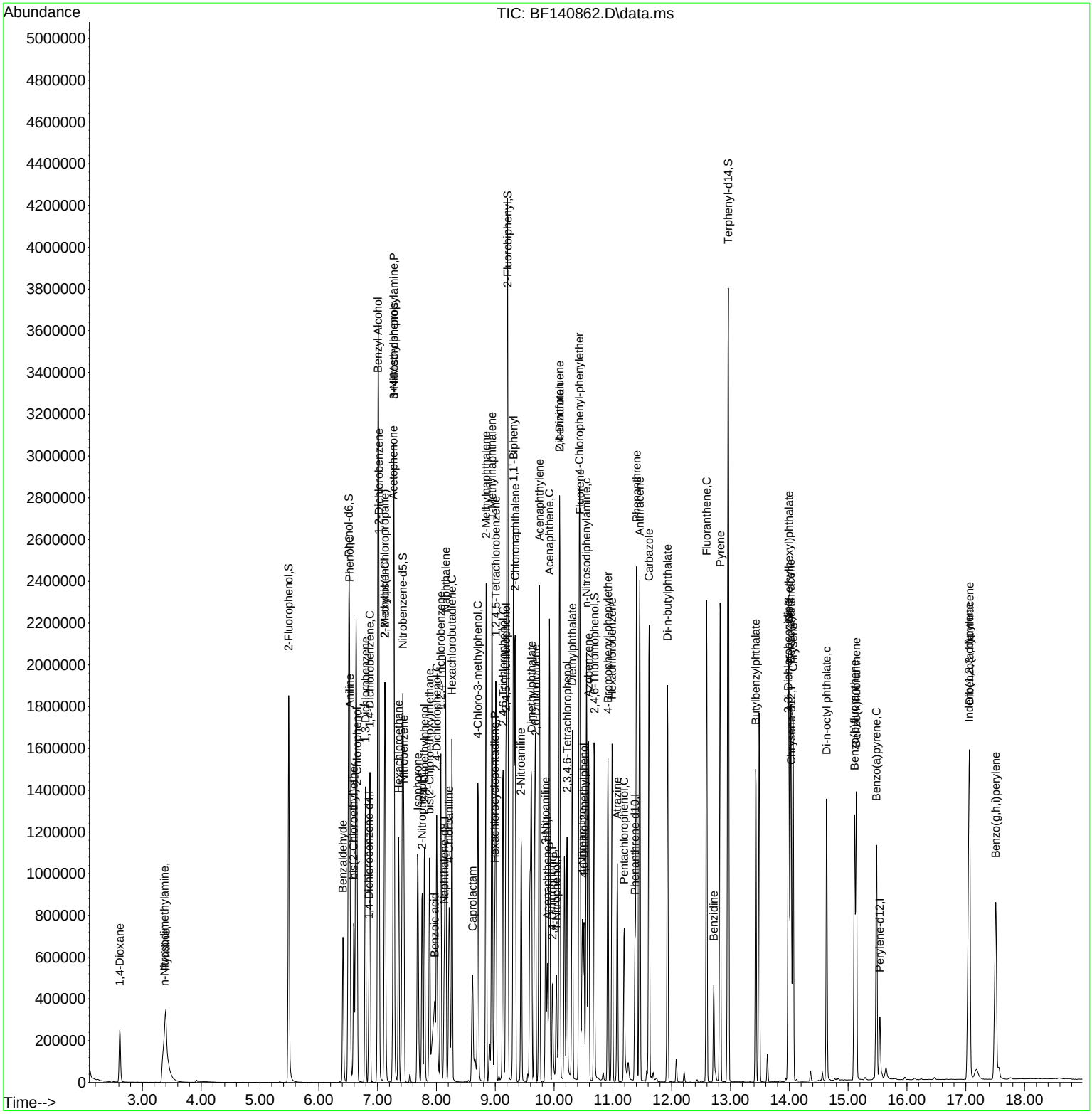
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.181	196	321402	91.760	ng	99
46) 1,1'-Biphenyl	9.310	154	1186930	88.155	ng	99
47) 2-Chloronaphthalene	9.339	162	927799	90.075	ng	99
48) 2-Nitroaniline	9.439	65	289810	93.162	ng	99
49) Acenaphthylene	9.751	152	1169747	77.278	ng	100
50) Dimethylphthalate	9.616	163	1049196	87.890	ng	100
51) 2,6-Dinitrotoluene	9.686	165	240439	88.104	ng	95
52) Acenaphthene	9.922	154	710789	73.511	ng	100
53) 3-Nitroaniline	9.857	138	208004	76.804	ng	98
54) 2,4-Dinitrophenol	9.975	184	106230	79.797	ng	95
55) Dibenzofuran	10.092	168	1071923	71.543	ng	100
56) 4-Nitrophenol	10.039	139	112972	77.685	ng	96
57) 2,4-Dinitrotoluene	10.092	165	263636	73.423	ng	99
58) Fluorene	10.439	166	904163	73.147	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.222	232	230812	80.870	ng	99
60) Diethylphthalate	10.310	149	911868	73.664	ng	100
61) 4-Chlorophenyl-phenyle...	10.428	204	456754	73.562	ng	97
62) 4-Nitroaniline	10.480	138	216635	76.547	ng	99
63) Azobenzene	10.586	77	862457	74.110	ng	100
65) 4,6-Dinitro-2-methylph...	10.510	198	158996	76.975	ng	98
66) n-Nitrosodiphenylamine	10.551	169	767906	68.519	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	279941	68.648	ng	99
68) Hexachlorobenzene	10.986	284	324661	70.220	ng	97
69) Atrazine	11.075	200	185877	59.385	ng	99
70) Pentachlorophenol	11.192	266	153999	91.050	ng	100
71) Phenanthrene	11.404	178	1365579	72.850	ng	99
72) Anthracene	11.457	178	1361788	73.769	ng	99
73) Carbazole	11.616	167	1341097	74.170	ng	100
74) Di-n-butylphthalate	11.927	149	1410986	66.492	ng	100
75) Fluoranthene	12.592	202	1374862	63.687	ng	98
77) Benzidine	12.716	184	276230	74.064	ng	99
78) Pyrene	12.827	202	1423860	87.621	ng	100
80) Butylbenzylphthalate	13.427	149	508497	85.043	ng	97
81) Benzo(a)anthracene	14.021	228	1001035	77.292	ng	100
82) 3,3'-Dichlorobenzidine	13.980	252	291736	74.661	ng	99
83) Chrysene	14.063	228	881398	74.840	ng	100
84) Bis(2-ethylhexyl)phtha...	13.992	149	624744	81.032	ng	99
85) Di-n-octyl phthalate	14.633	149	922920	79.125	ng	100
87) Indeno(1,2,3-cd)pyrene	17.057	276	957167	89.400	ng	100
88) Benzo(b)fluoranthene	15.110	252	925999	77.753	ng	99
89) Benzo(k)fluoranthene	15.139	252	683254	66.881	ng	99
90) Benzo(a)pyrene	15.480	252	714906	76.662	ng	100
91) Dibenzo(a,h)anthracene	17.062	278	792175	89.311	ng	99
92) Benzo(g,h,i)perylene	17.509	276	840468	93.101	ng	99

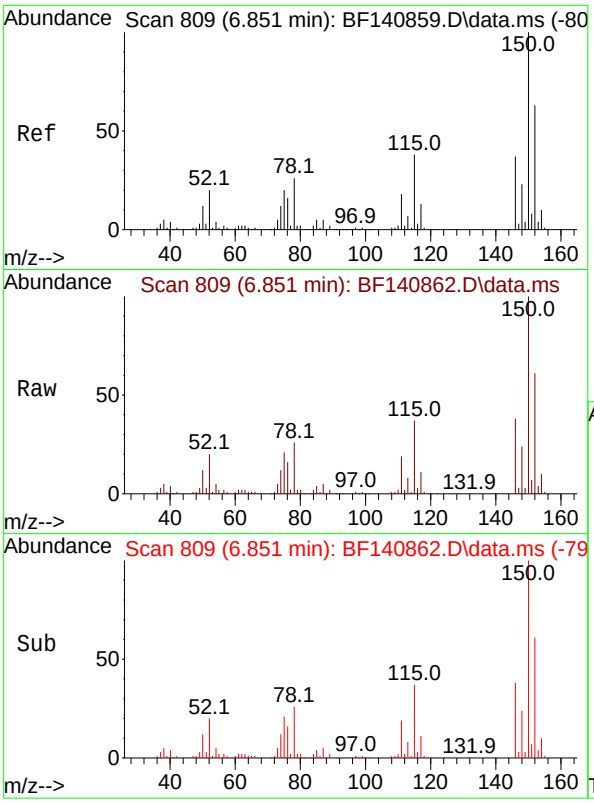
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF121624\
Data File : BF140862.D
Acq On : 16 Dec 2024 16:15
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Dec 16 16:52:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:38:27 2024
Response via : Initial Calibration



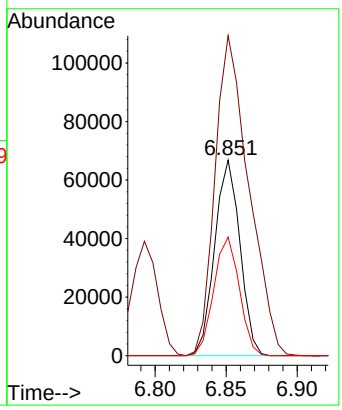


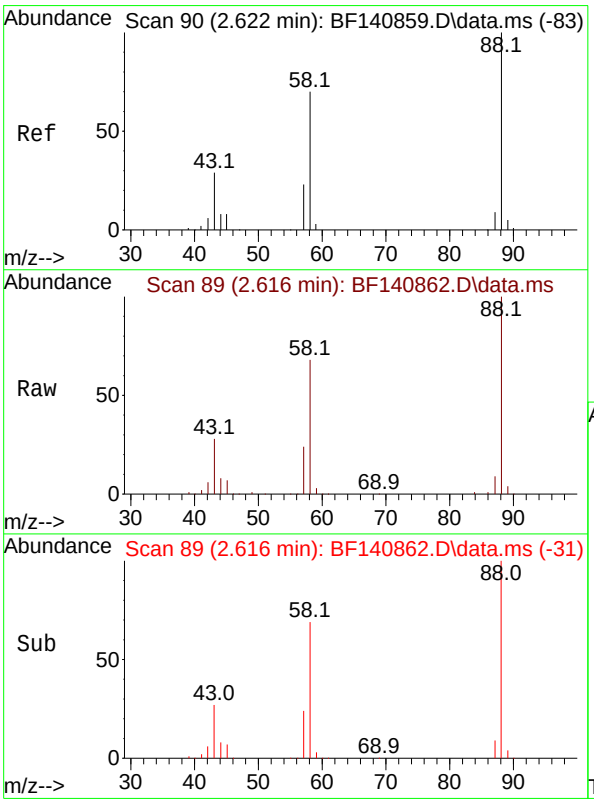
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 82694

Ion	Ratio	Lower	Upper
152	100		
150	163.6	127.9	191.9
115	60.6	48.0	72.0

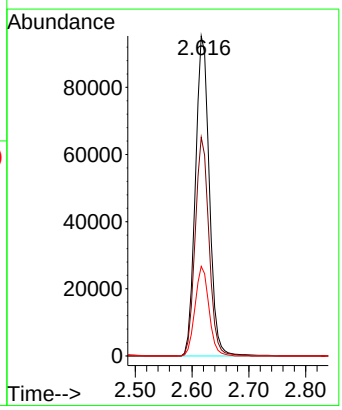


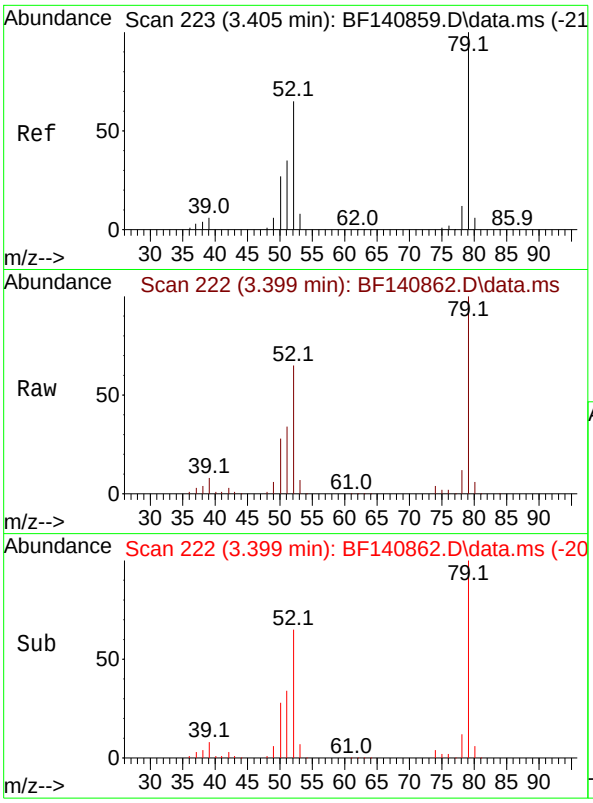


#2
1,4-Dioxane
Concen: 75.255 ng
RT: 2.616 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 88 Resp: 162832

Ion	Ratio	Lower	Upper
88	100		
58	67.8	55.8	83.8
43	27.9	22.7	34.1



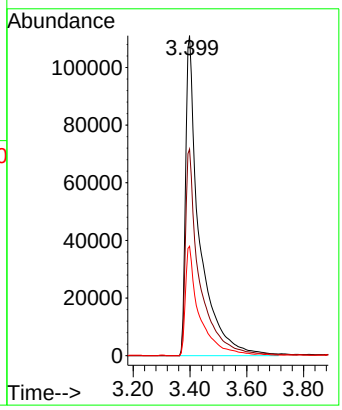


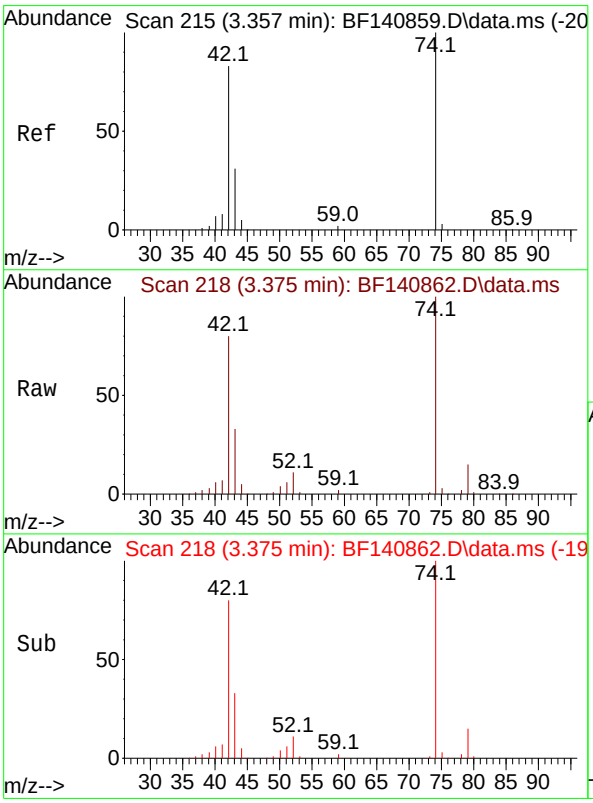
#3
Pyridine
Concen: 75.017 ng
RT: 3.399 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 375906

Ion	Ratio	Lower	Upper
79	100		
52	64.6	51.7	77.5
51	34.2	28.2	42.4

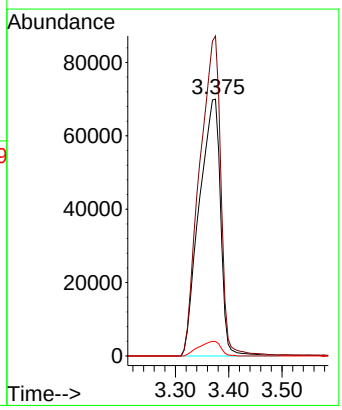


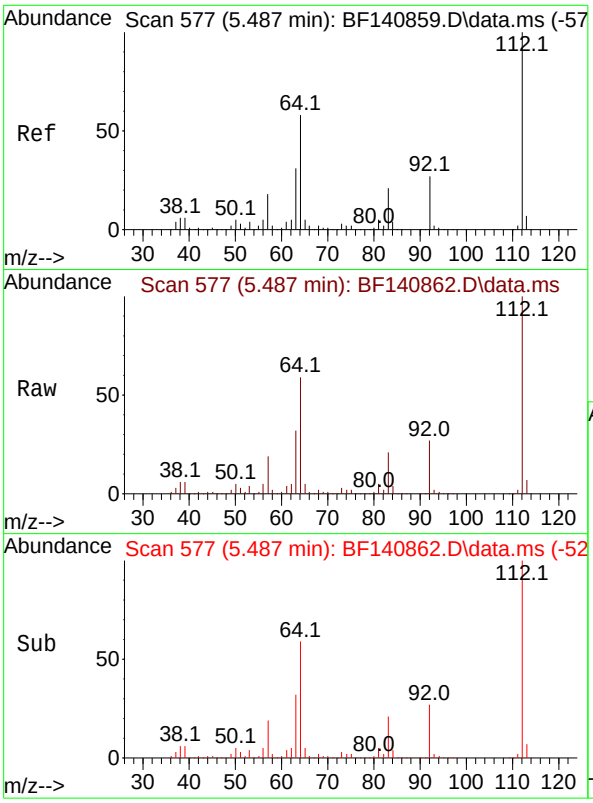


#4
n-Nitrosodimethylamine
Concen: 76.818 ng
RT: 3.375 min Scan# 218
Delta R.T. 0.018 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 42 Resp: 194050

Ion	Ratio	Lower	Upper
42	100		
74	124.6	96.9	145.3
44	5.7	4.4	6.6



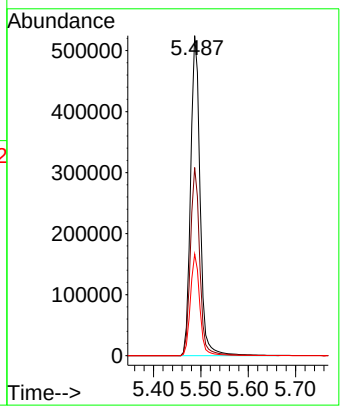


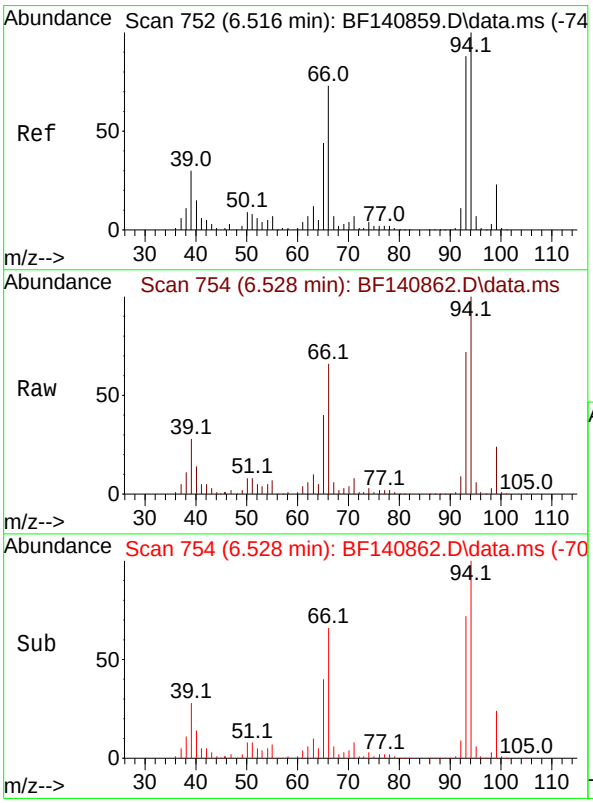
#5
2-Fluorophenol
Concen: 145.730 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 732058

Ion	Ratio	Lower	Upper
112	100		
64	58.8	46.1	69.1
63	31.7	24.9	37.3

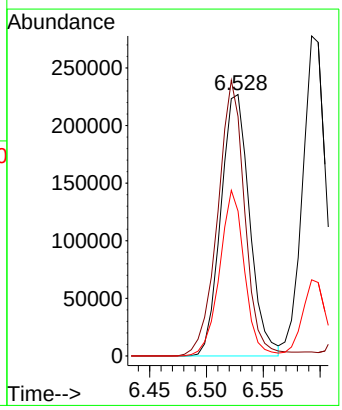


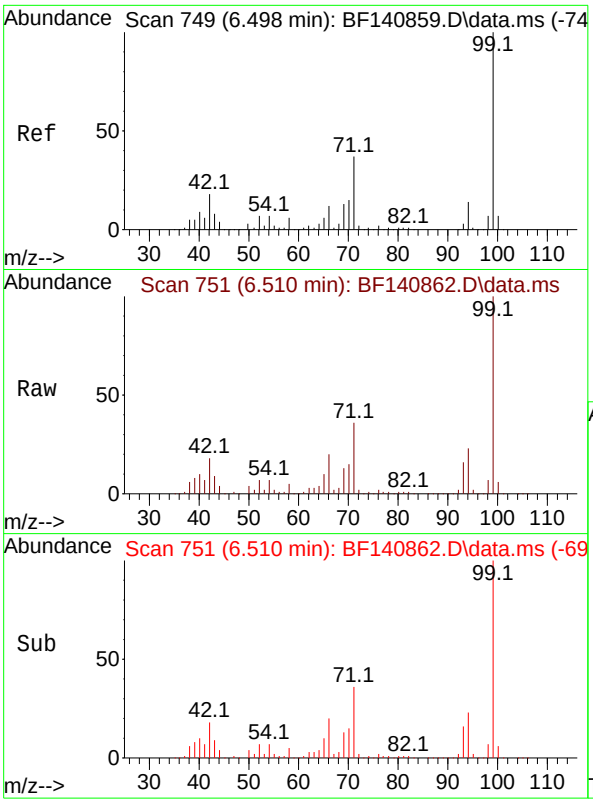


#6
Aniline
Concen: 70.247 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 93 Resp: 399627

Ion	Ratio	Lower	Upper
93	100		
66	91.6	67.0	100.4
65	55.4	40.4	60.6



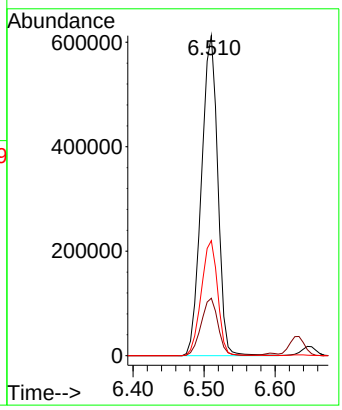


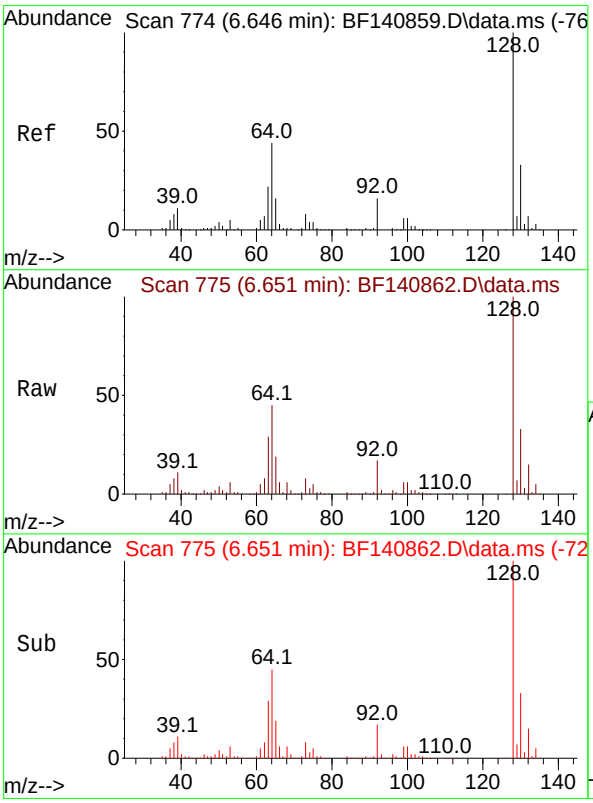
#7
Phenol-d6
Concen: 147.637 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 982302

Ion	Ratio	Lower	Upper
99	100		
42	17.9	14.3	21.5
71	35.9	29.9	44.9

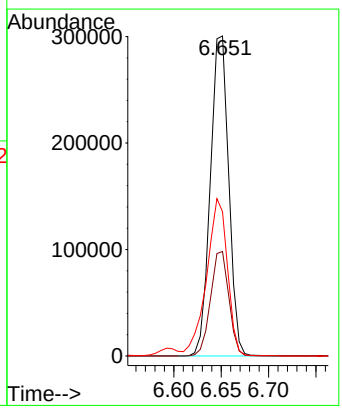


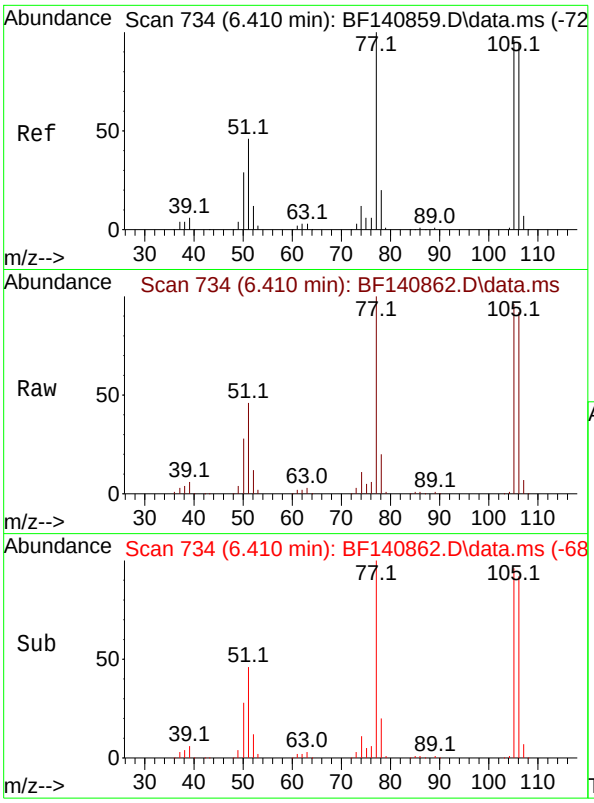


#8
2-Chlorophenol
Concen: 74.245 ng
RT: 6.651 min Scan# 775
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:128 Resp: 406710

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.9	52.9
64	45.1	24.3	64.3



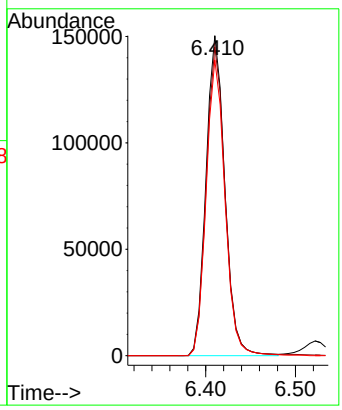


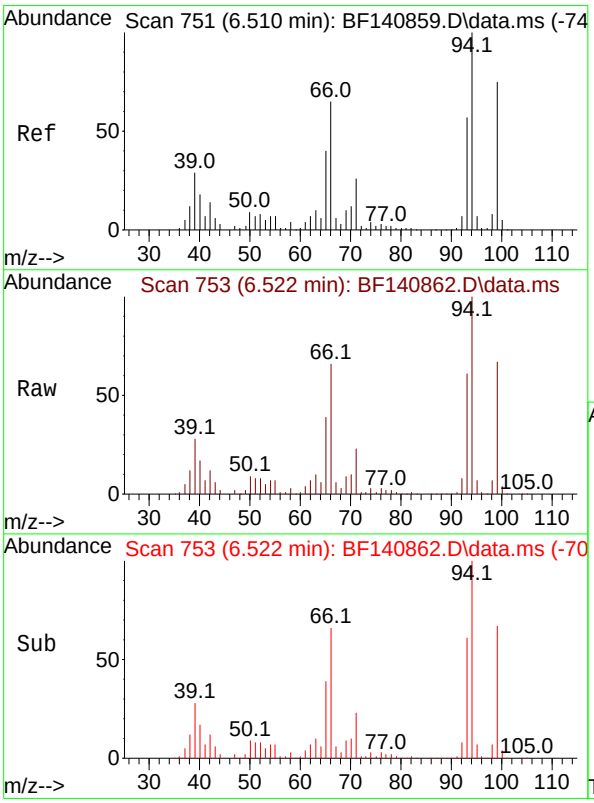
#9
Benzaldehyde
Concen: 59.528 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 219459

Ion	Ratio	Lower	Upper
77	100		
105	96.5	75.8	115.8
106	92.3	74.1	114.1

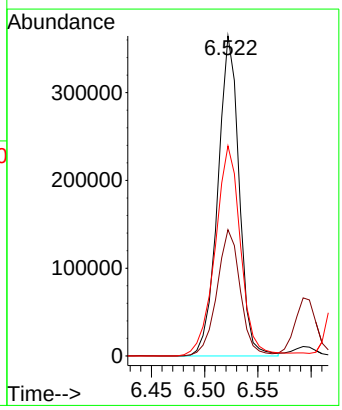


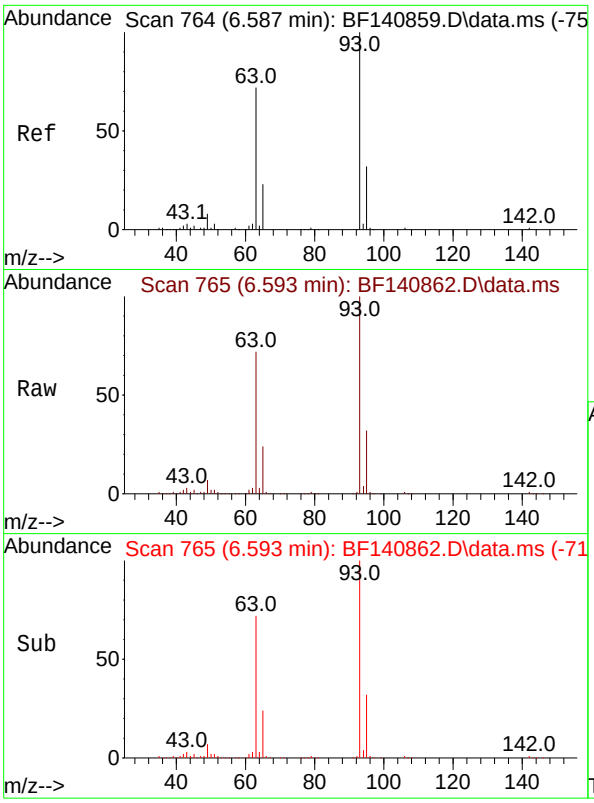


#10
Phenol
Concen: 73.564 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 94 Resp: 507289

Ion	Ratio	Lower	Upper
94	100		
65	39.4	19.9	59.9
66	65.6	45.6	85.6



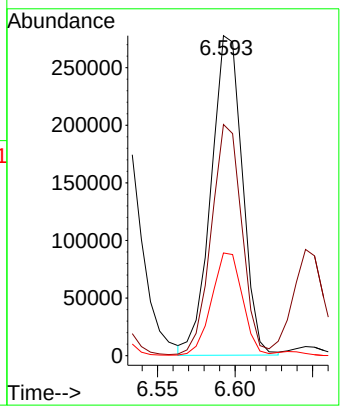


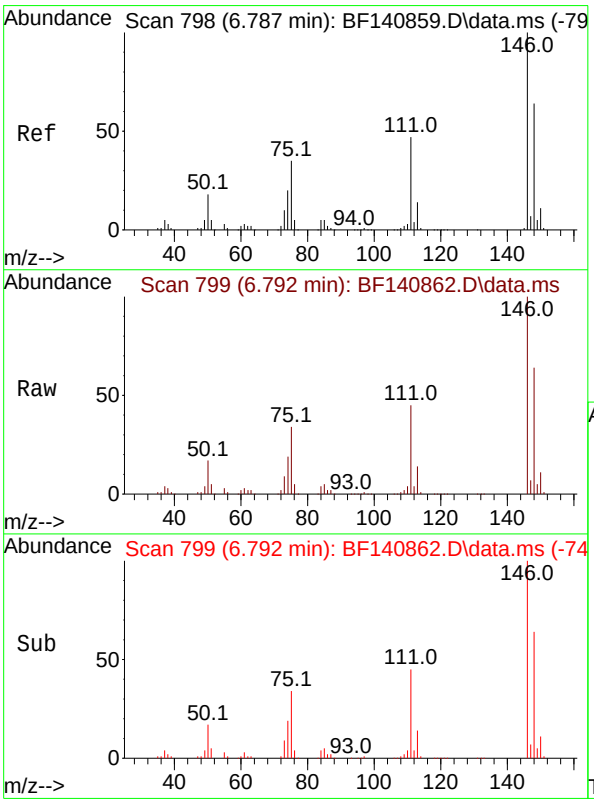
#11
bis(2-Chloroethyl)ether
Concen: 75.649 ng
RT: 6.593 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 389038

Ion	Ratio	Lower	Upper
93	100		
63	72.3	51.0	91.0
95	32.1	12.0	52.0

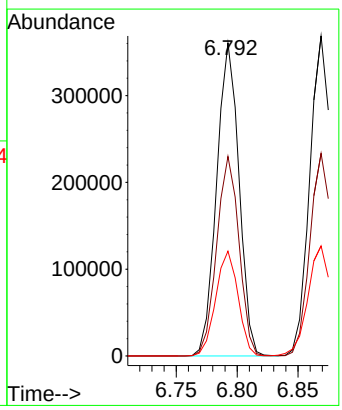


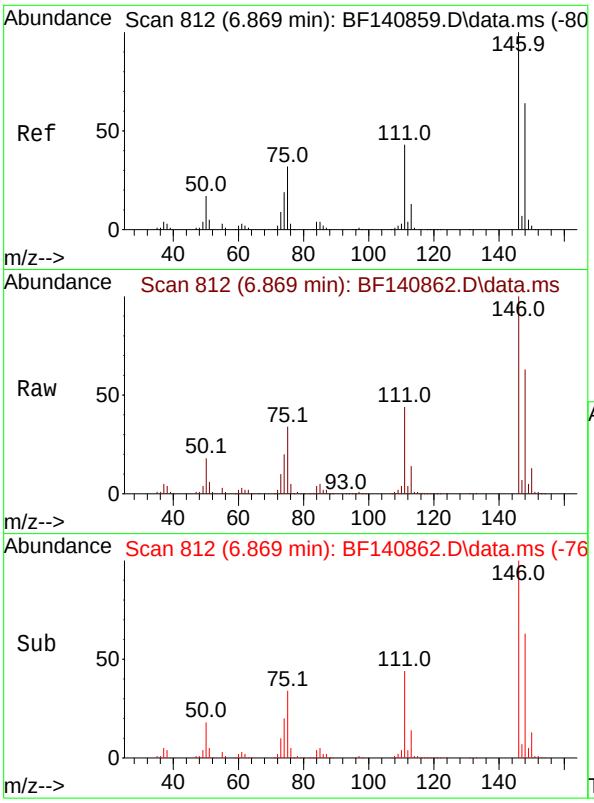


#12
1,3-Dichlorobenzene
Concen: 73.871 ng
RT: 6.792 min Scan# 799
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:146 Resp: 461108

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
75	33.5	28.1	42.1



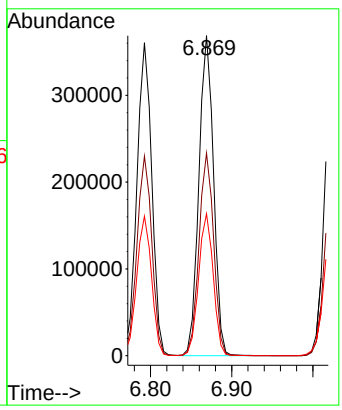


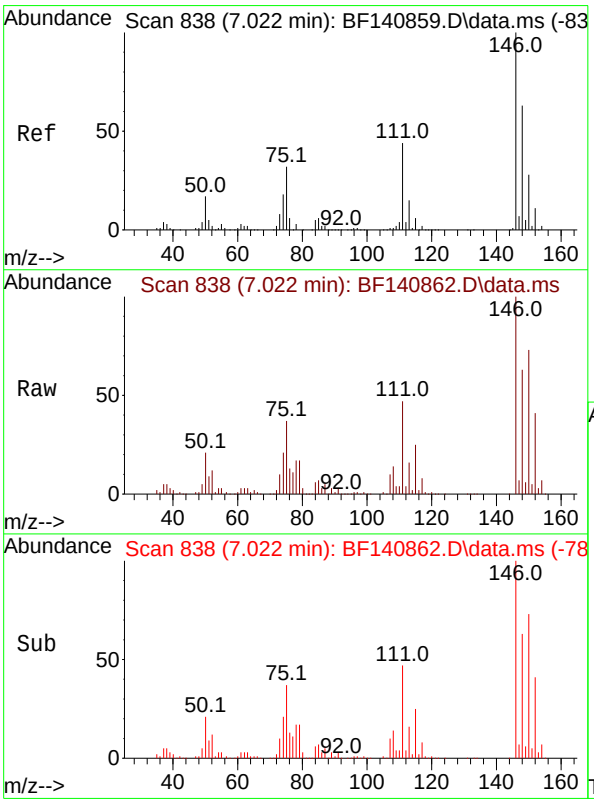
#13
1,4-Dichlorobenzene
Concen: 72.952 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 462233

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.3	76.9
111	44.3	34.4	51.6

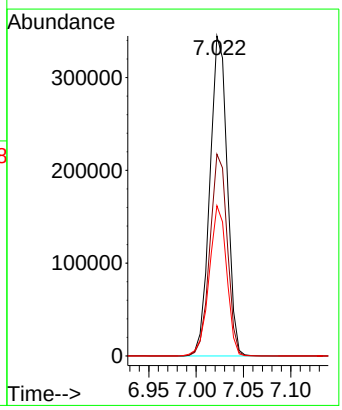


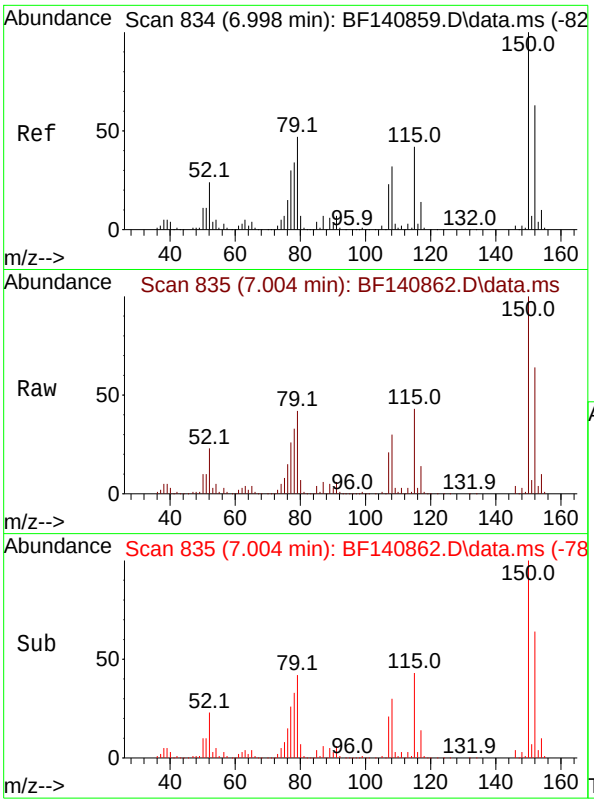


#14
1,2-Dichlorobenzene
Concen: 73.129 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:146 Resp: 437177

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.0	75.0
111	46.9	35.6	53.4



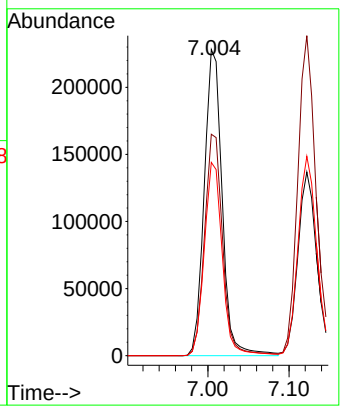


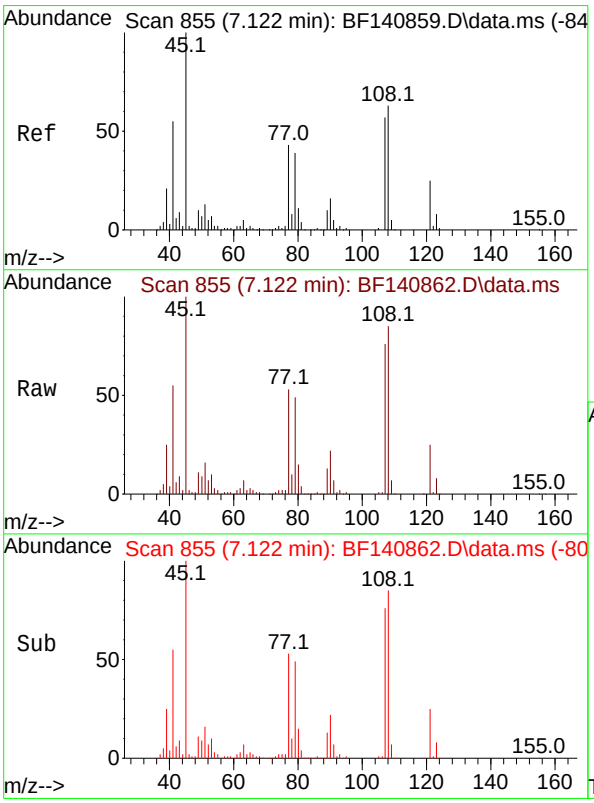
#15
Benzyl Alcohol
Concen: 73.442 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 349382

Ion	Ratio	Lower	Upper
79	100		
108	72.3	55.1	82.7
77	63.1	50.6	76.0

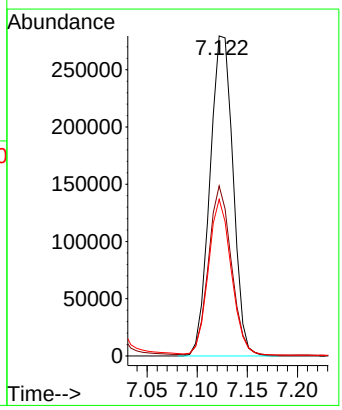


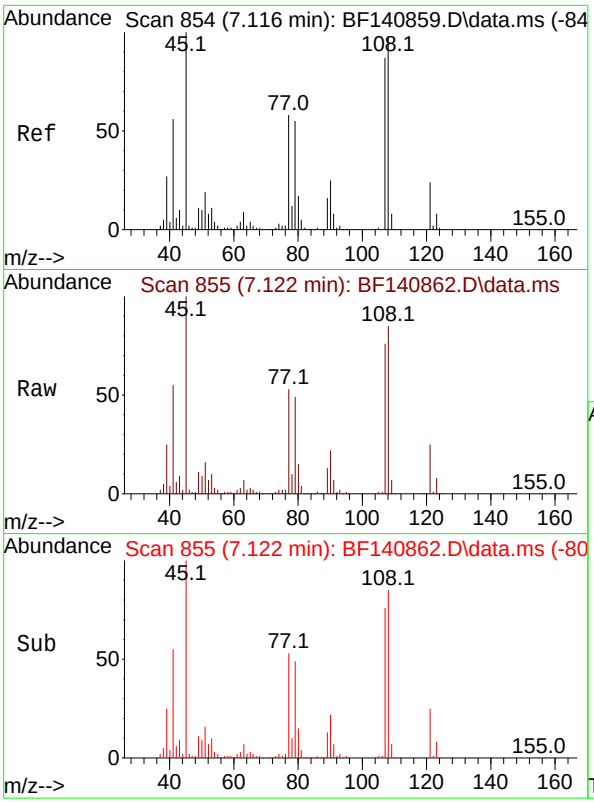


#16
2,2'-oxybis(1-Chloropropane)
Concen: 74.228 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 45 Resp: 449685

Ion	Ratio	Lower	Upper
45	100		
77	53.1	23.3	63.3
79	49.0	20.0	60.0



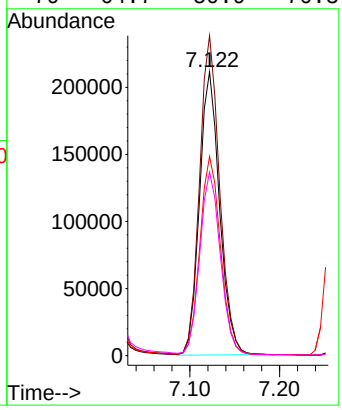


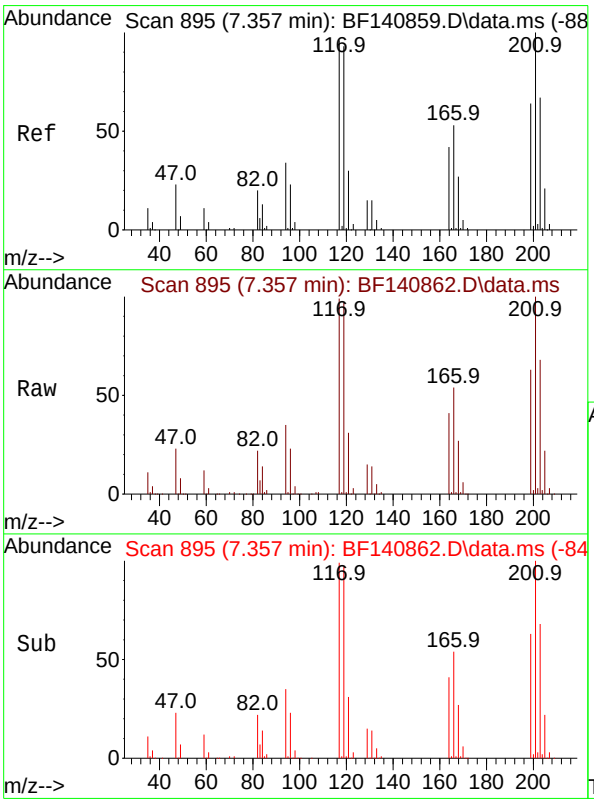
#17
2-Methylphenol
Concen: 75.095 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 328432

Ion	Ratio	Lower	Upper
107	100		
108	112.7	90.2	135.4
77	70.2	53.8	80.6
79	64.7	50.9	76.3

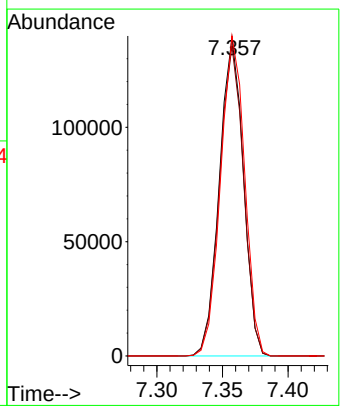


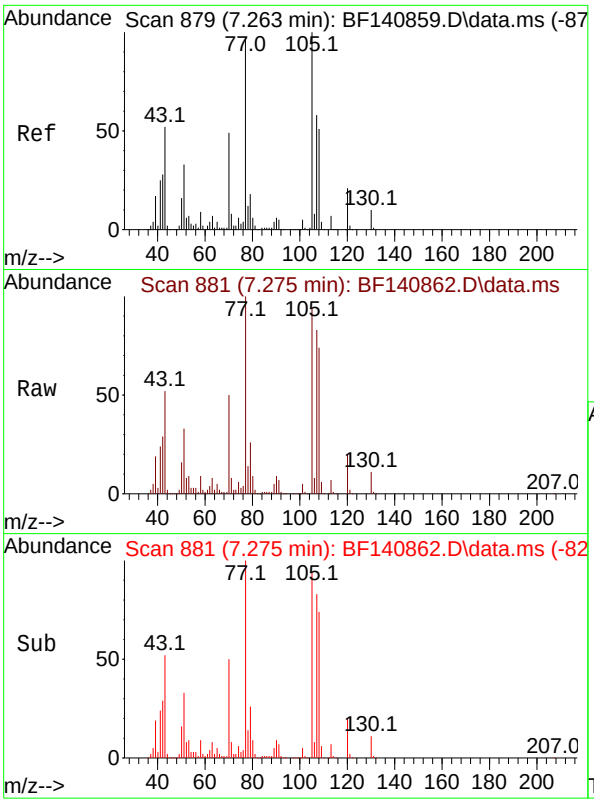


#18
Hexachloroethane
Concen: 75.005 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:117 Resp: 176920

Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.4	116.0
201	100.5	83.4	125.0



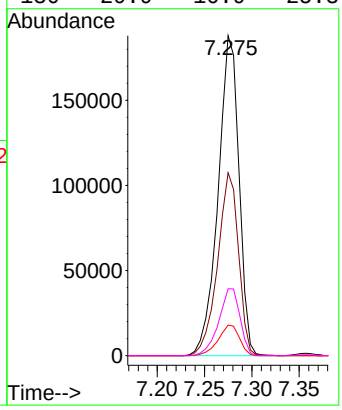


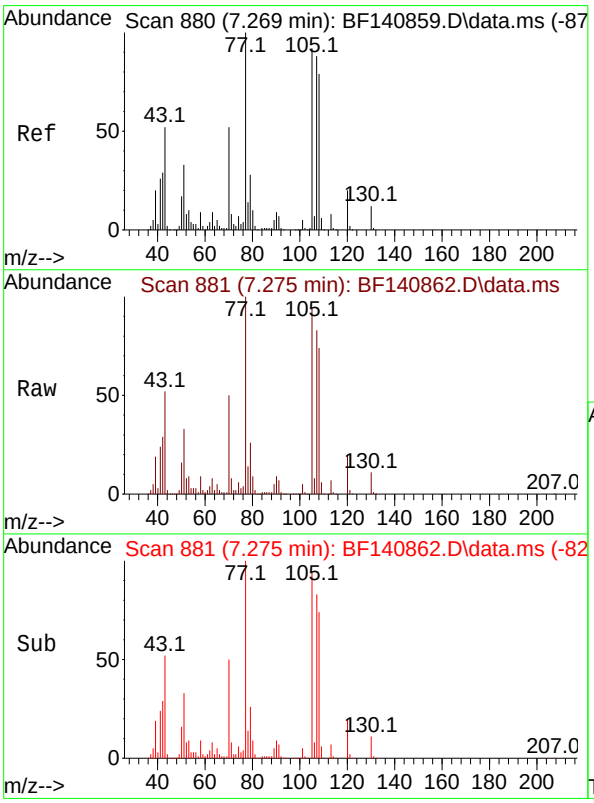
#19
n-Nitroso-di-n-propylamine
Concen: 72.349 ng
RT: 7.275 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 288752

Ion	Ratio	Lower	Upper
70	100		
42	57.2	45.3	67.9
101	9.6	8.0	12.0
130	20.9	16.9	25.3

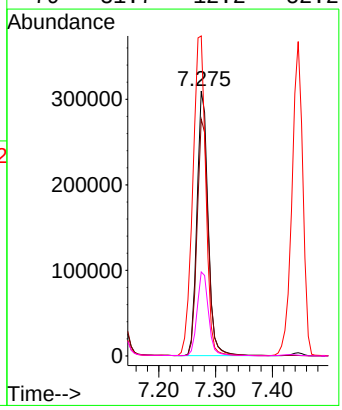


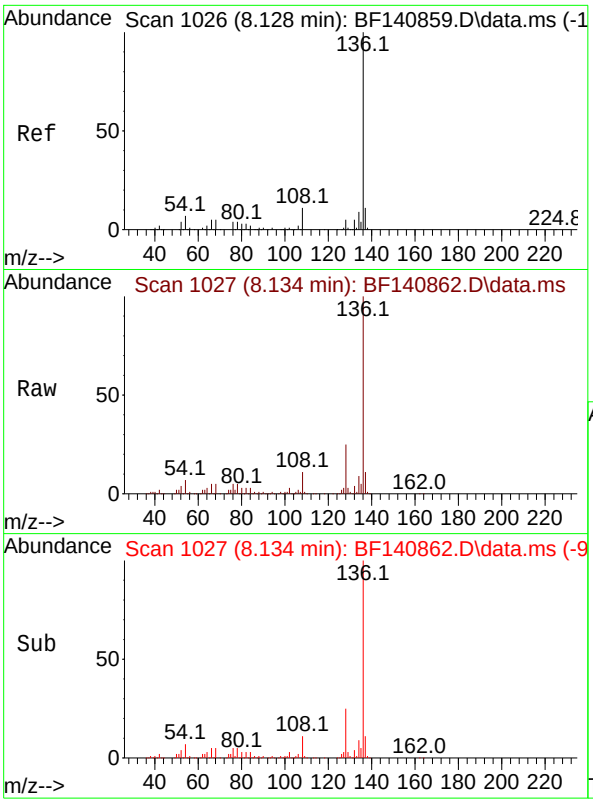


#20
3+4-Methylphenols
Concen: 72.622 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:107 Resp: 421165

Ion	Ratio	Lower	Upper
107	100		
108	89.4	70.1	110.1
77	120.8	94.4	134.4
79	31.7	12.2	52.2



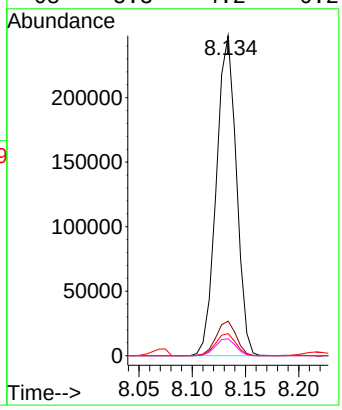


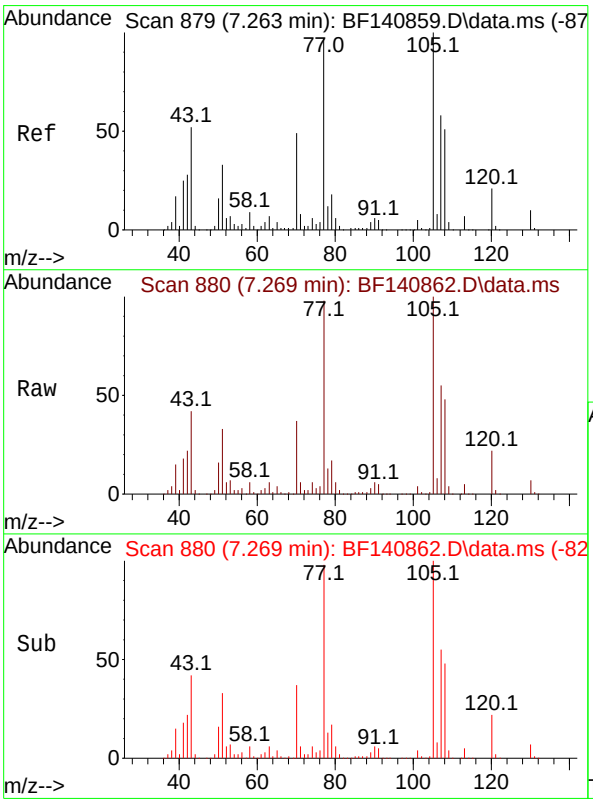
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 323165

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.9	5.6	8.4
68	5.3	4.2	6.2

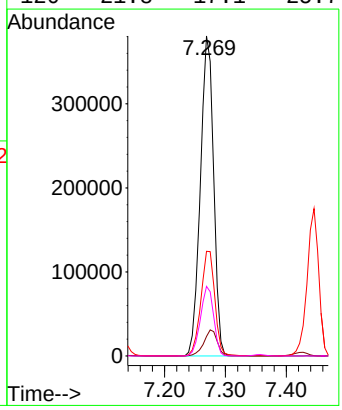


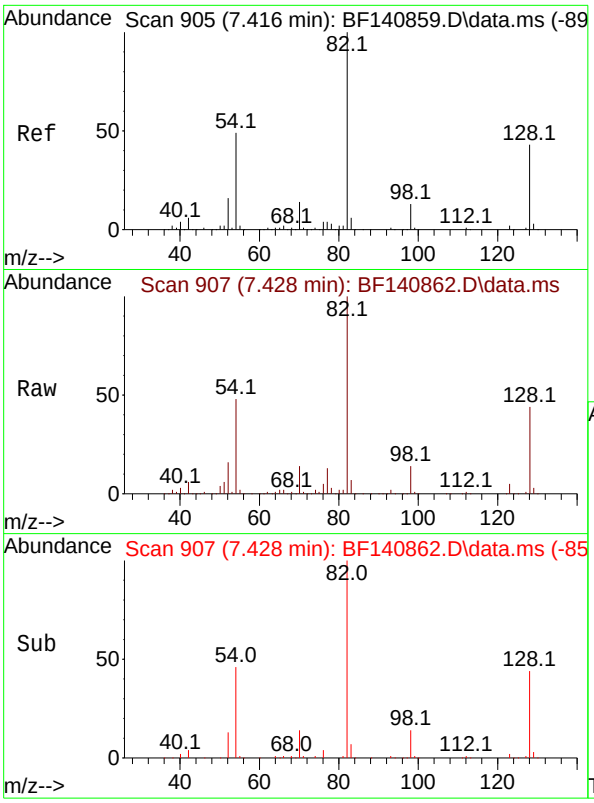


#22
Acetophenone
Concen: 71.295 ng
RT: 7.269 min Scan# 880
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:105 Resp: 576358

Ion	Ratio	Lower	Upper
105	100		
71	6.1	6.2	9.4#
51	32.7	26.3	39.5
120	21.8	17.1	25.7



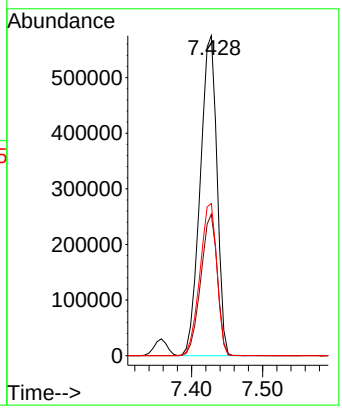


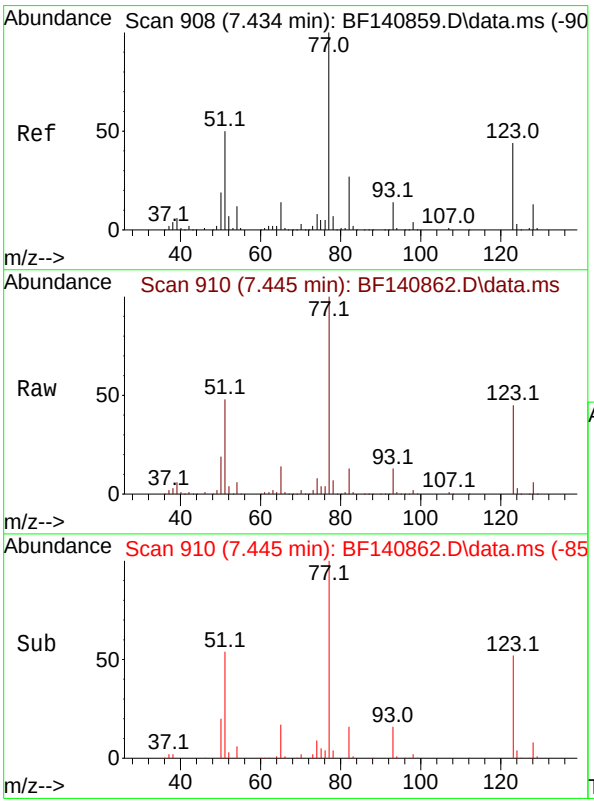
#23
Nitrobenzene-d5
Concen: 146.623 ng
RT: 7.428 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 947083

Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.4	51.6
54	47.6	38.8	58.2

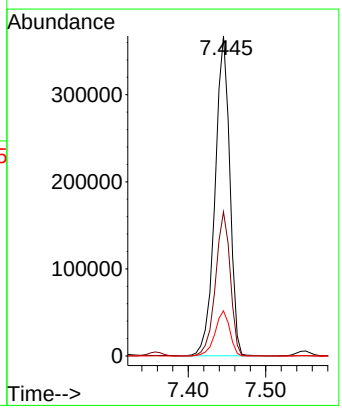


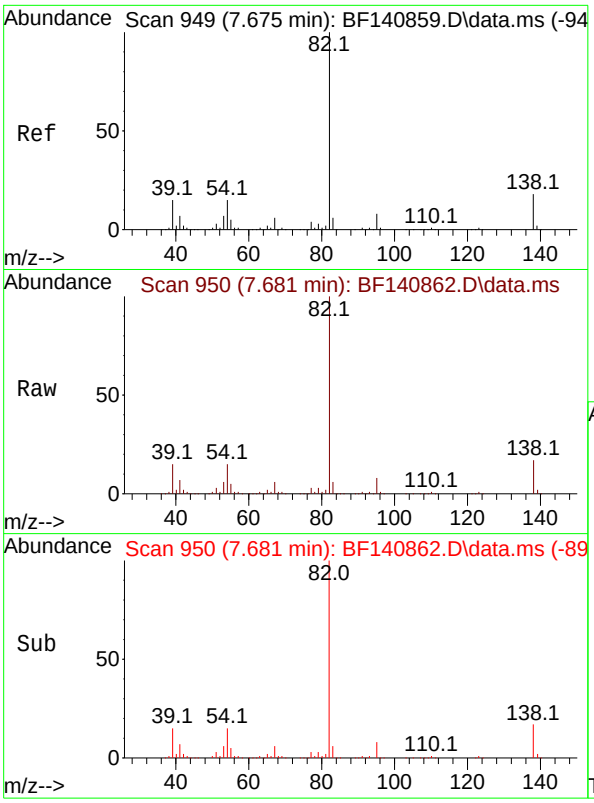


#24
Nitrobenzene
Concen: 73.246 ng
RT: 7.445 min Scan# 910
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 77 Resp: 484693

Ion	Ratio	Lower	Upper
77	100		
123	45.1	35.0	52.4
65	14.1	11.4	17.0



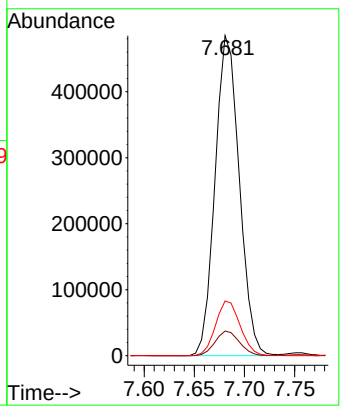


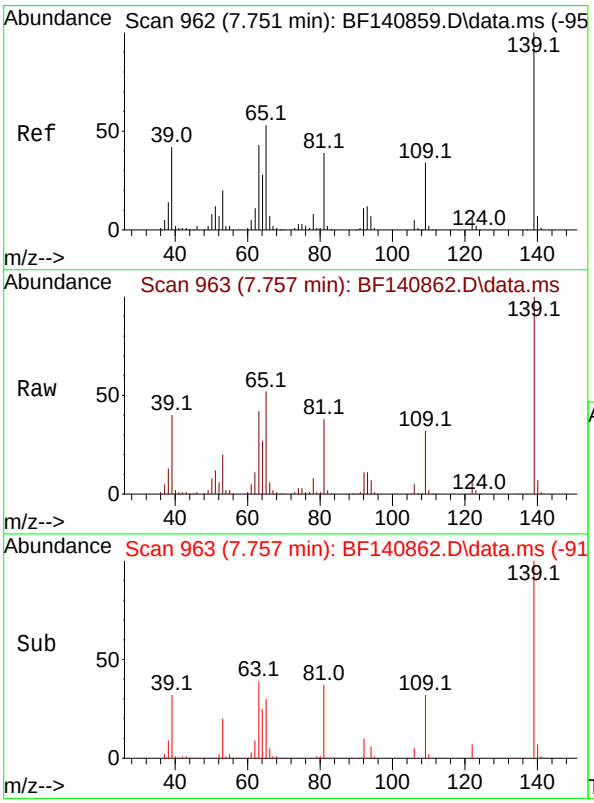
#25
Isophorone
Concen: 75.310 ng
RT: 7.681 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 815074

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.3	9.5
138	17.1	14.1	21.1

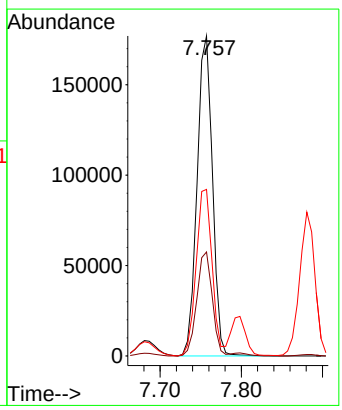


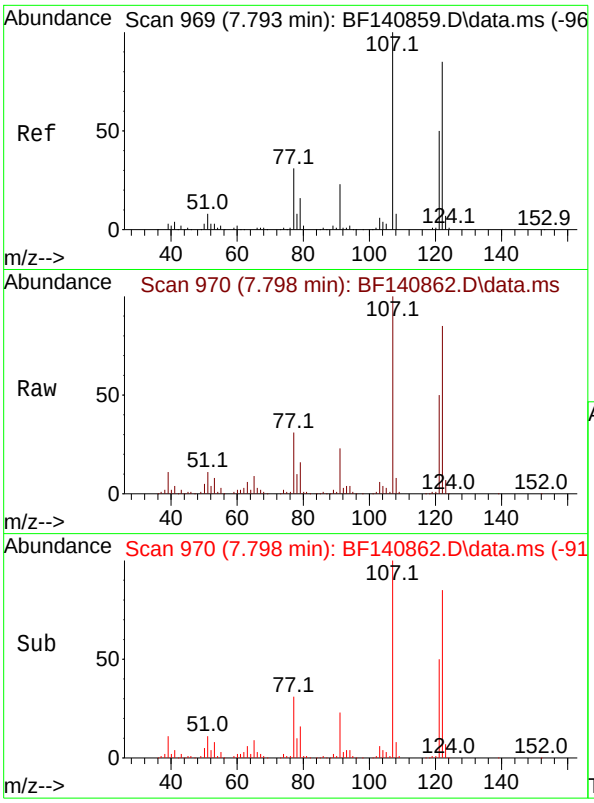


#26
2-Nitrophenol
Concen: 76.426 ng
RT: 7.757 min Scan# 963
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:139 Resp: 232926

Ion	Ratio	Lower	Upper
139	100		
109	32.5	26.9	40.3
65	52.1	42.6	64.0



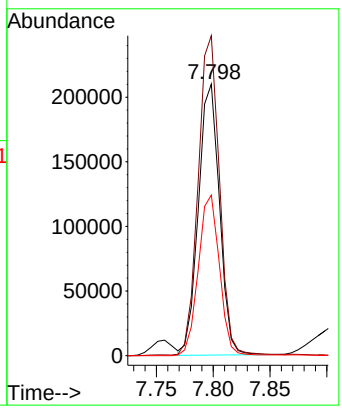


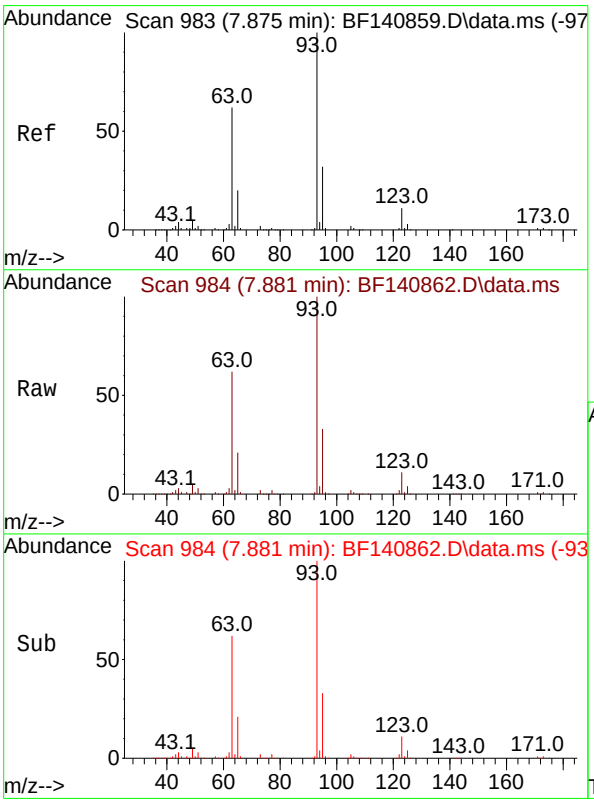
#27
2,4-Dimethylphenol
Concen: 76.101 ng
RT: 7.798 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 270864

Ion	Ratio	Lower	Upper
122	100		
107	117.8	92.6	139.0
121	59.1	45.8	68.8

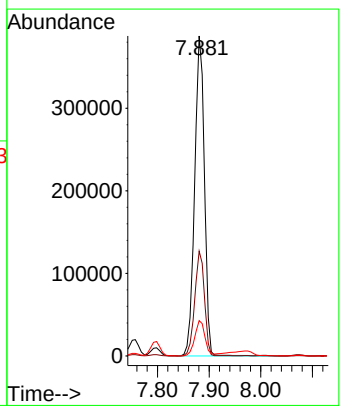


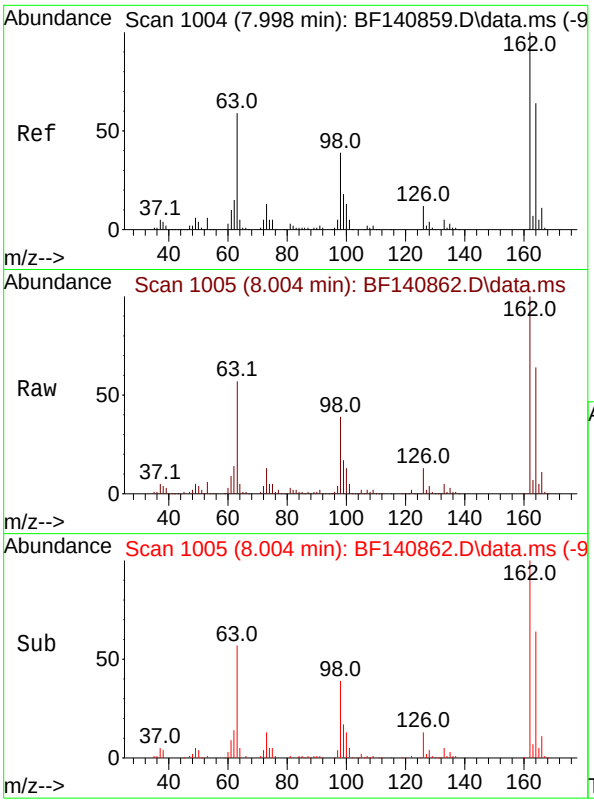


#28
bis(2-Chloroethoxy)methane
Concen: 75.263 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 93 Resp: 508754

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.3	37.9
123	11.1	8.6	13.0



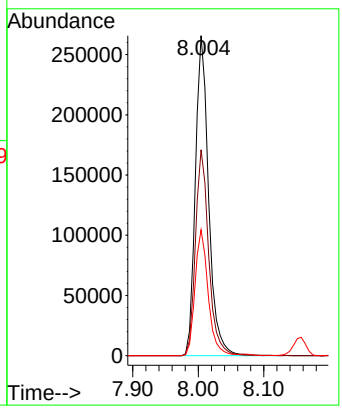


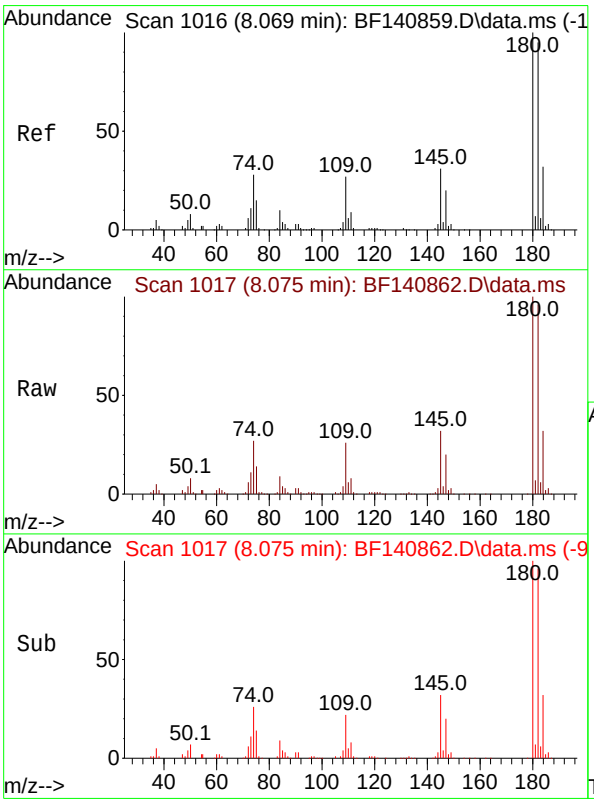
#29
2,4-Dichlorophenol
Concen: 76.199 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 374434

Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.7	83.7
98	39.4	18.6	58.6

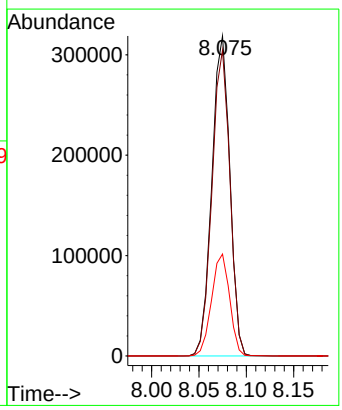


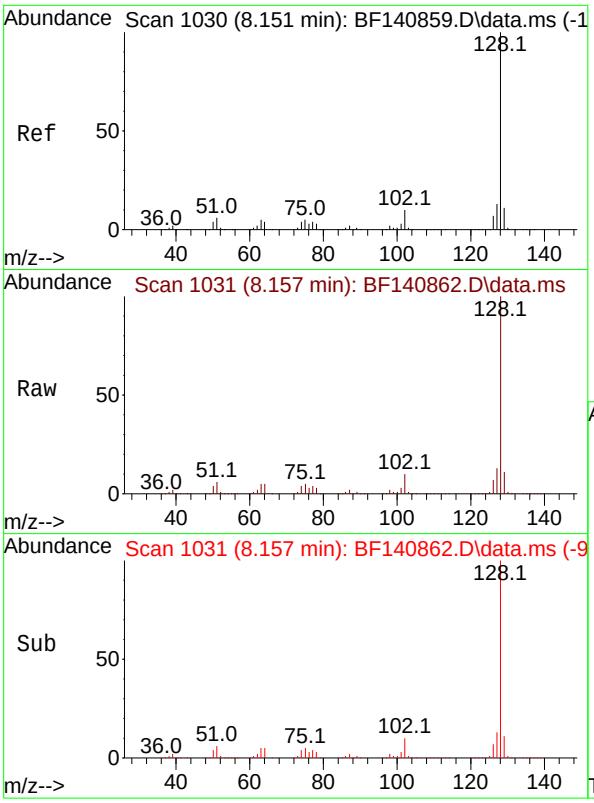


#30
1,2,4-Trichlorobenzene
Concen: 74.635 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:180 Resp: 420429

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.6
145	31.9	25.2	37.8



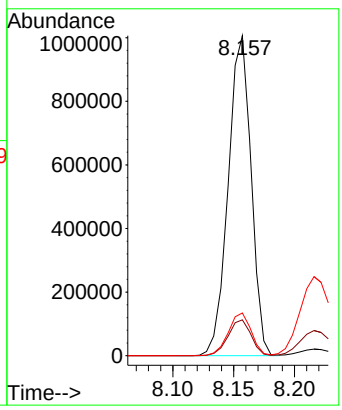


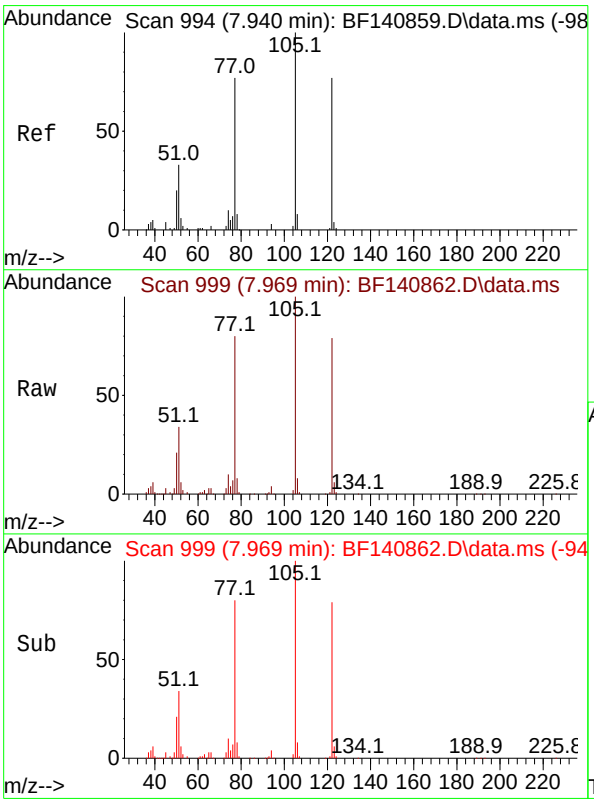
#31
Naphthalene
Concen: 74.301 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 1318982

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.3	10.6	16.0

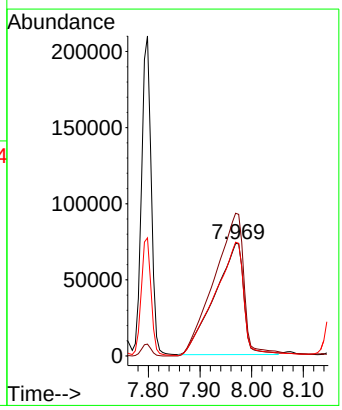


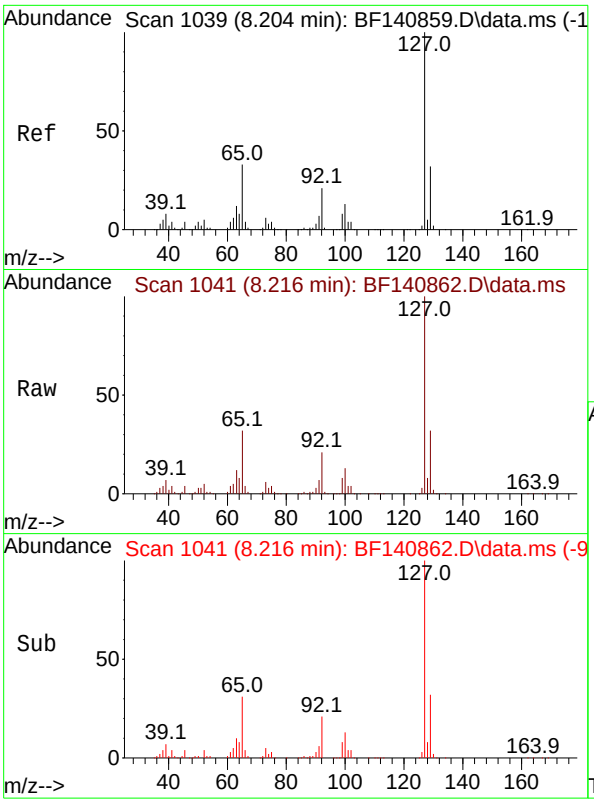


#32
Benzoic acid
Concen: 84.342 ng
RT: 7.969 min Scan# 999
Delta R.T. 0.029 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:122 Resp: 284705

Ion	Ratio	Lower	Upper
122	100		
105	126.9	108.3	148.3
77	101.2	78.8	118.8



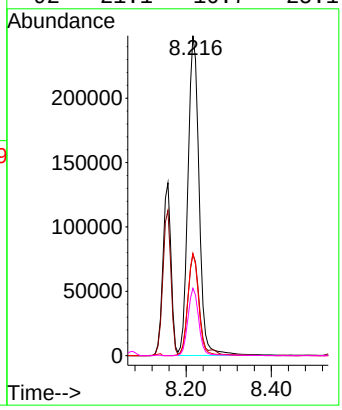


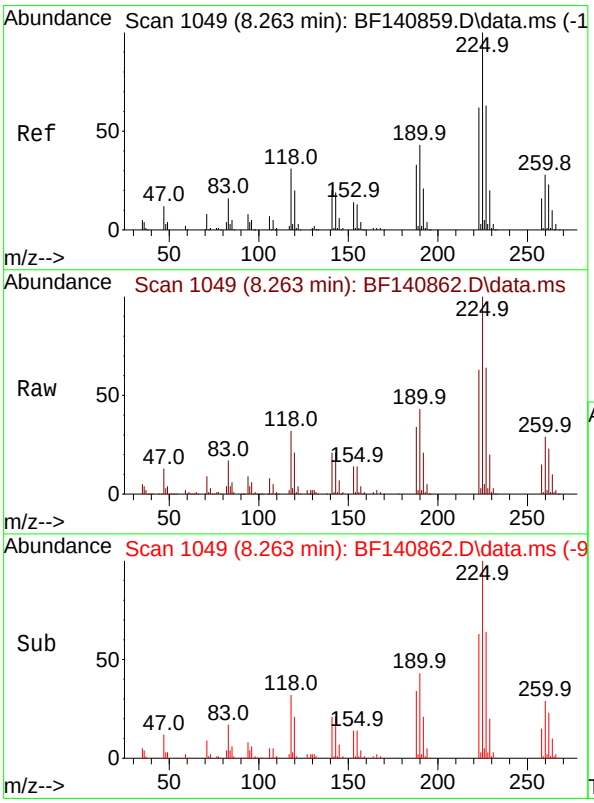
#33
4-Chloroaniline
Concen: 76.586 ng
RT: 8.216 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 451539

Ion	Ratio	Lower	Upper
127	100		
129	31.7	26.0	39.0
65	31.9	26.0	39.0
92	21.1	16.7	25.1

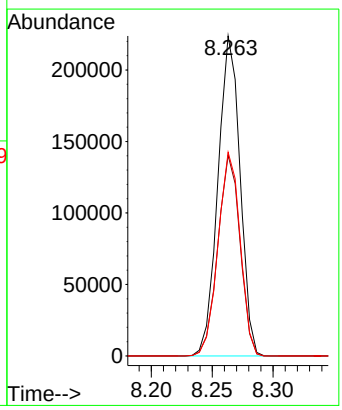


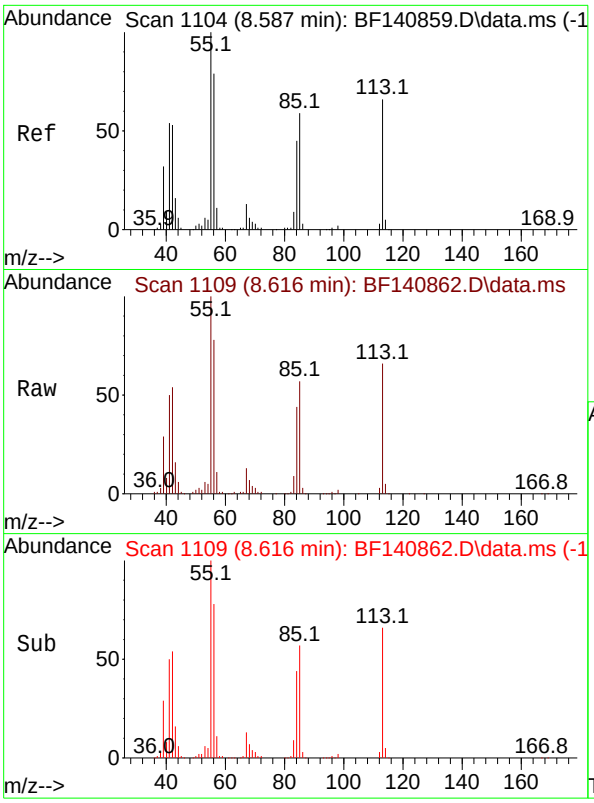


#34
Hexachlorobutadiene
Concen: 74.615 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:225 Resp: 282790

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.6	74.4
227	63.7	50.7	76.1



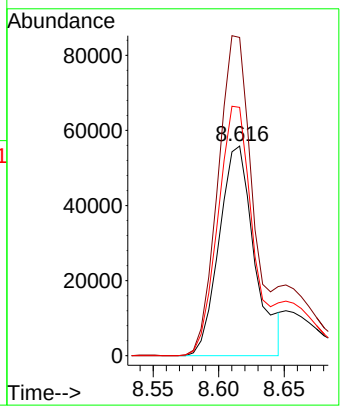


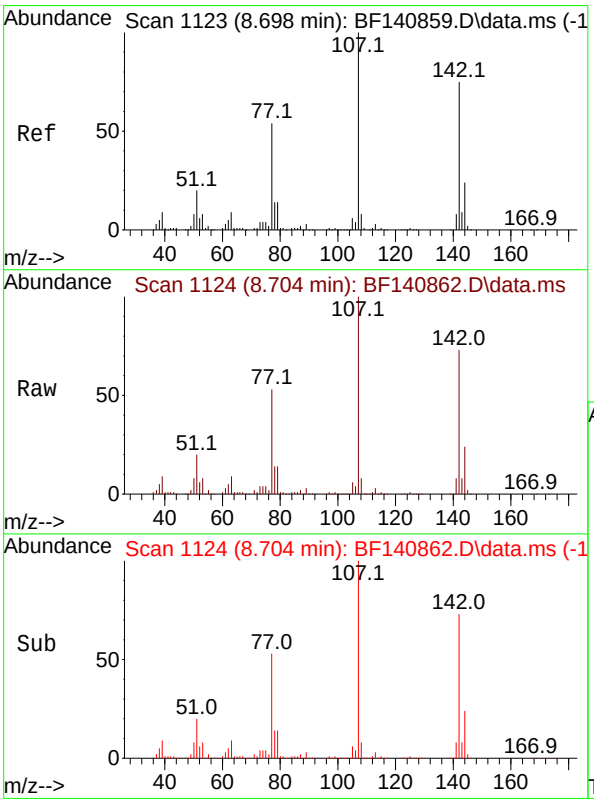
#35
Caprolactam
Concen: 71.548 ng
RT: 8.616 min Scan# 11
Delta R.T. 0.029 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 104669

Ion	Ratio	Lower	Upper
113	100		
55	151.8	132.3	172.3
56	118.4	100.3	140.3

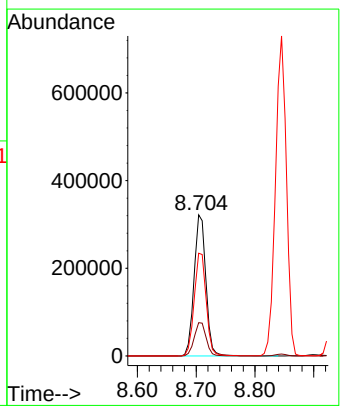


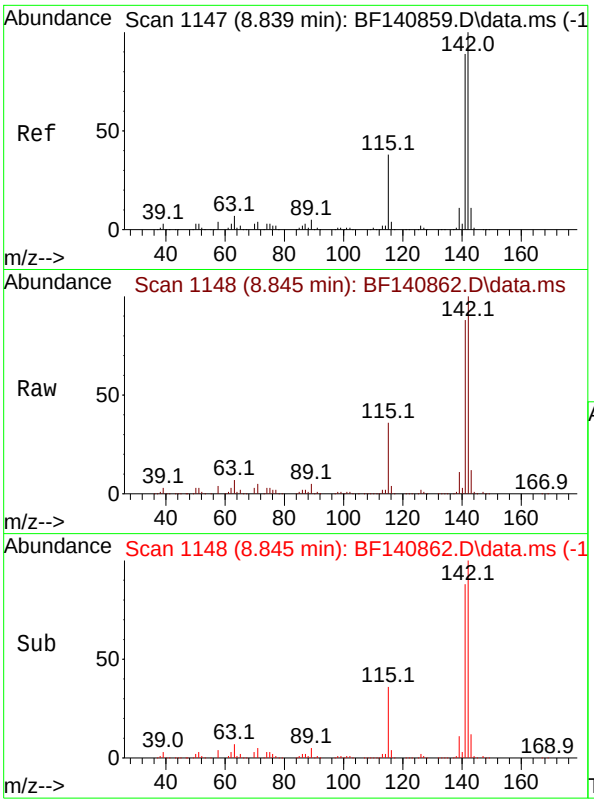


#36
4-Chloro-3-methylphenol
Concen: 81.301 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:107 Resp: 449654

Ion	Ratio	Lower	Upper
107	100		
144	23.5	19.4	29.2
142	72.8	60.3	90.5



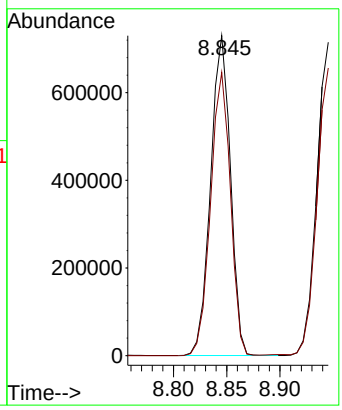


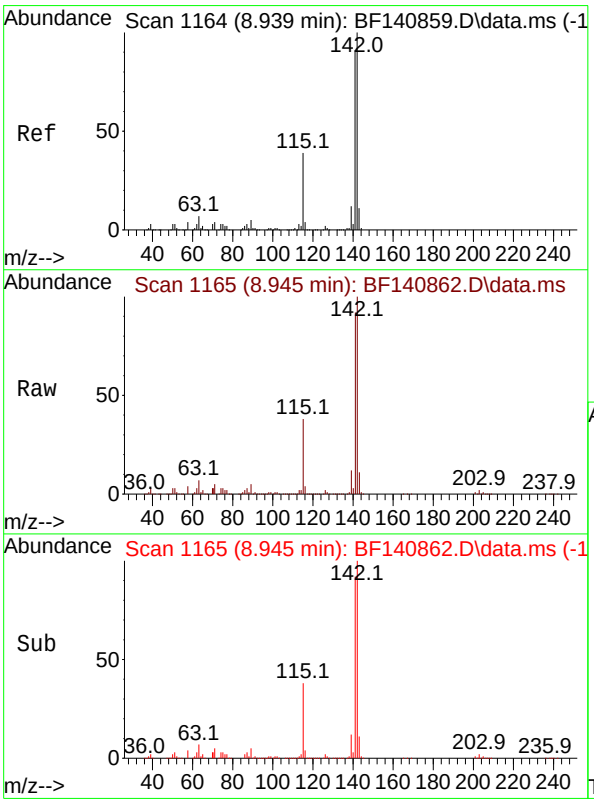
#37
2-Methylnaphthalene
Concen: 80.295 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 942892

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.0	106.6

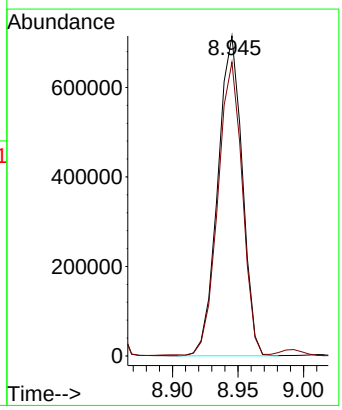


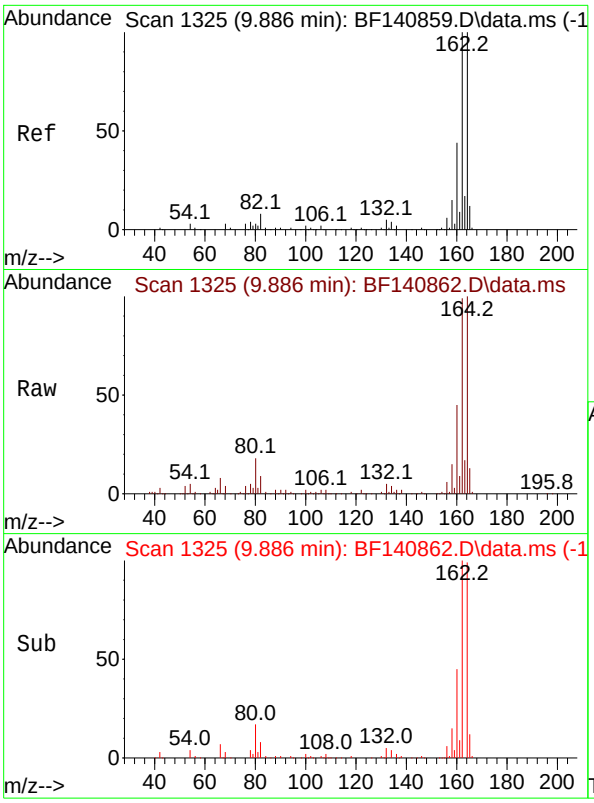


#38
1-Methylnaphthalene
Concen: 79.695 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:142 Resp: 925535

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.0



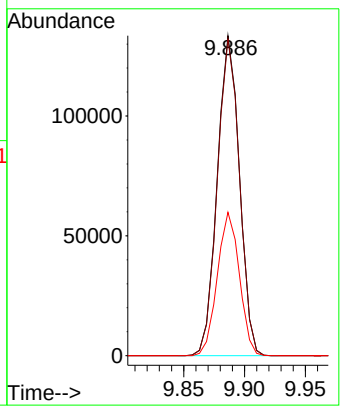


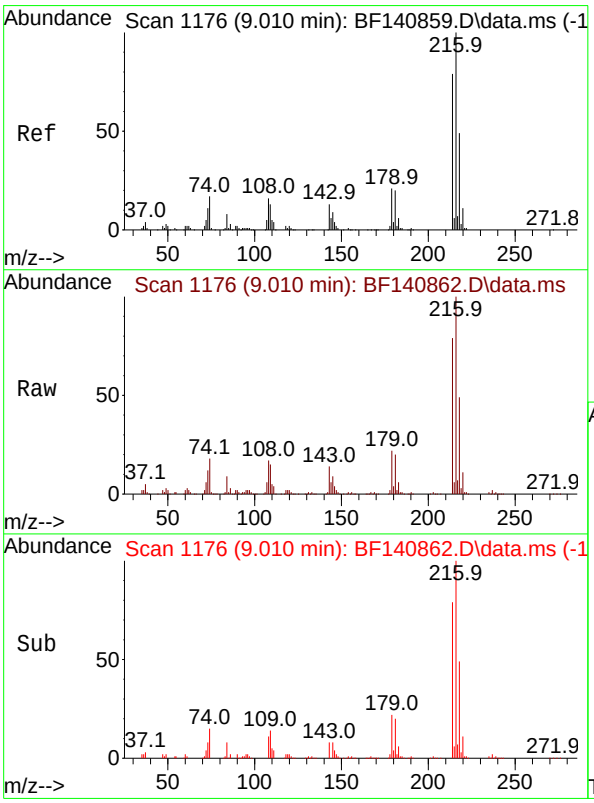
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 169321

Ion	Ratio	Lower	Upper
164	100		
162	99.0	79.9	119.9
160	44.8	35.2	52.8

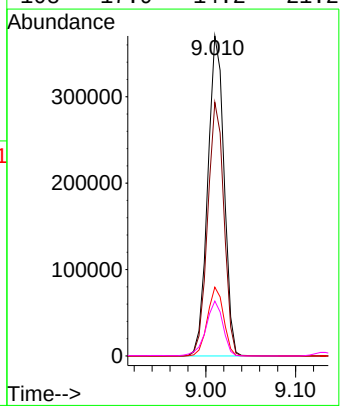


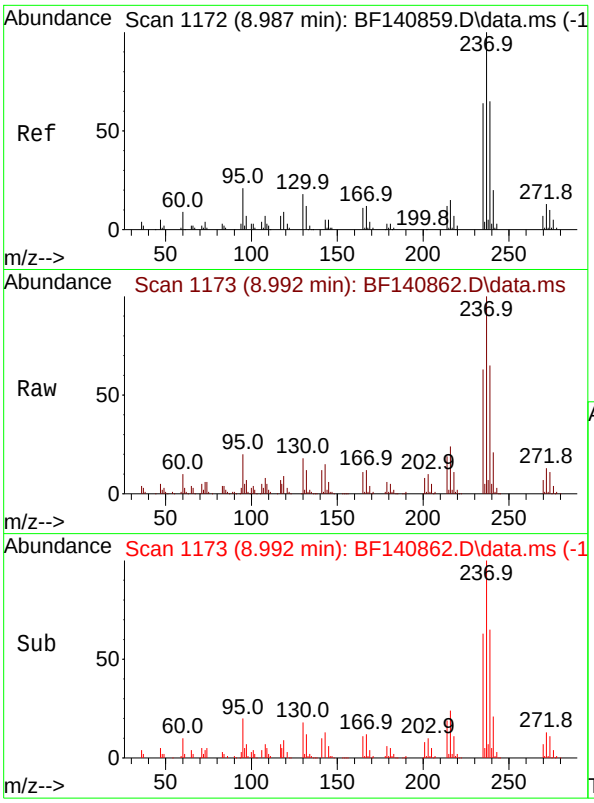


#40
1,2,4,5-Tetrachlorobenzene
Concen: 89.625 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:216 Resp: 466438

Ion	Ratio	Lower	Upper
216	100		
214	78.7	63.6	95.4
179	21.3	17.0	25.4
108	17.9	14.2	21.2



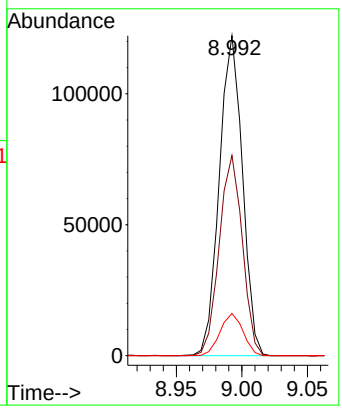


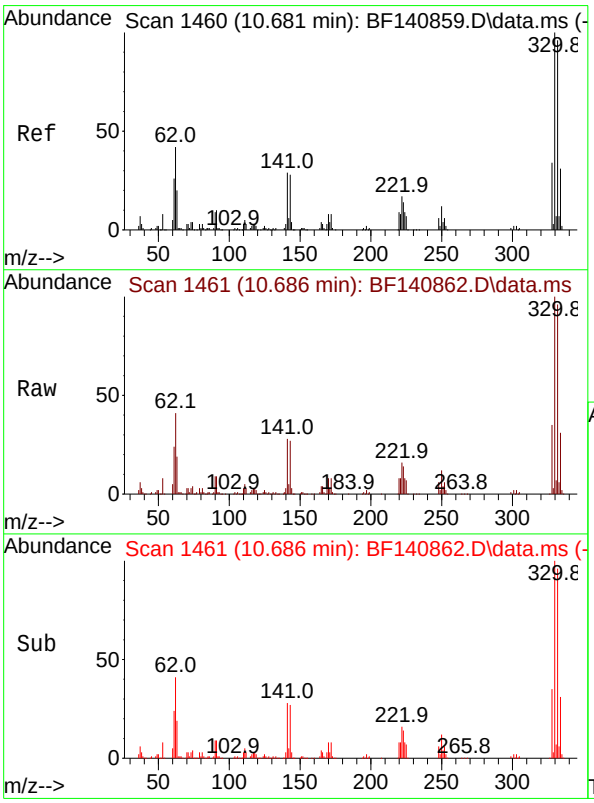
#41
Hexachlorocyclopentadiene
Concen: 80.025 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 149909

Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.7	83.7
272	13.2	0.0	32.9

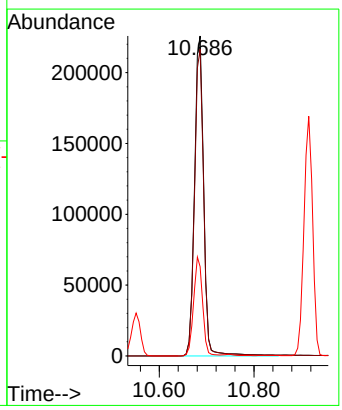


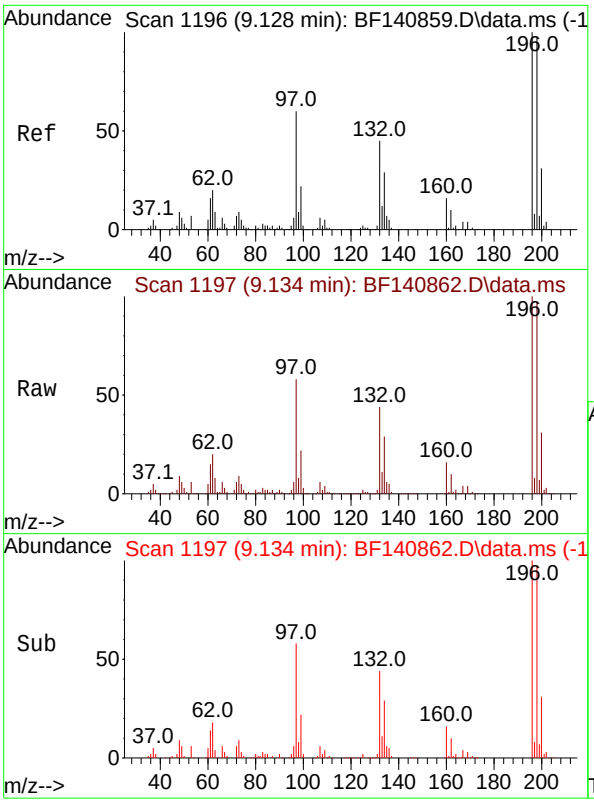


#42
2,4,6-Tribromophenol
Concen: 152.164 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:330 Resp: 304721

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.2	114.4
141	30.2	24.9	37.3



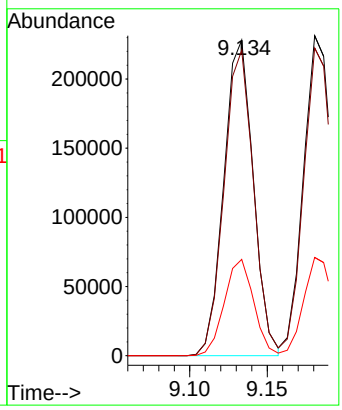


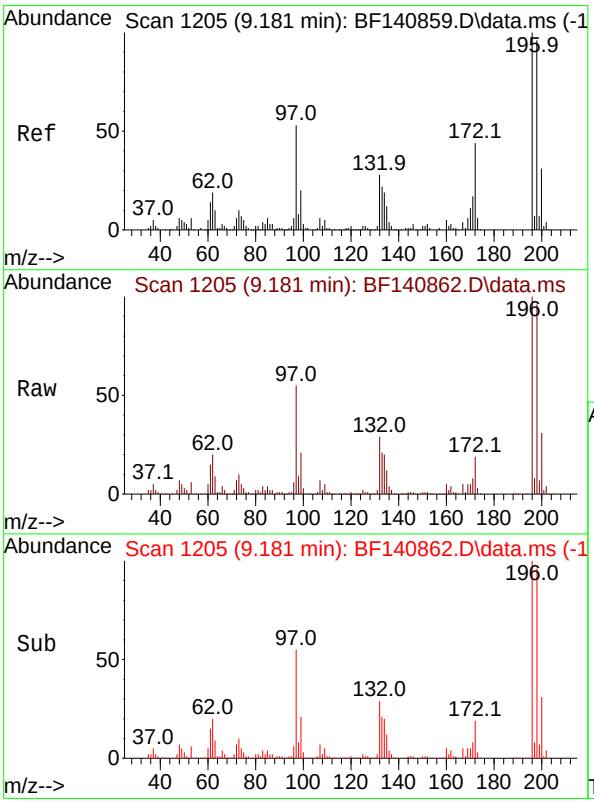
#43
2,4,6-Trichlorophenol
Concen: 94.714 ng
RT: 9.134 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 301828

Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.4	116.0
200	30.5	24.5	36.7

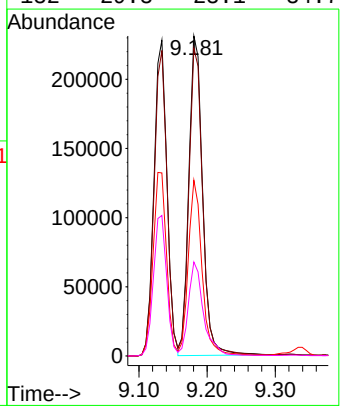


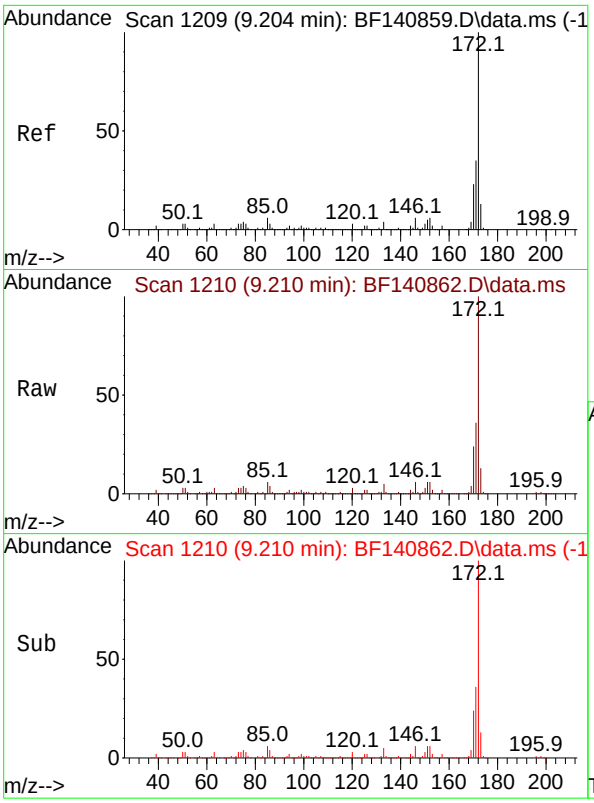


#44
2,4,5-Trichlorophenol
Concen: 91.760 ng
RT: 9.181 min Scan# 1205
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:196 Resp: 321402

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.2	115.8
97	54.9	42.2	63.4
132	29.3	23.1	34.7



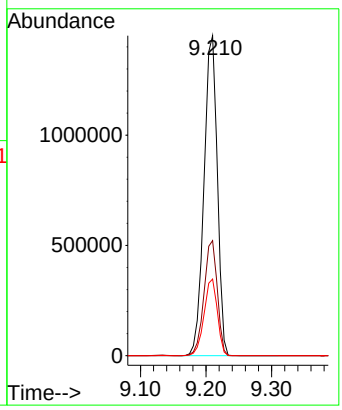


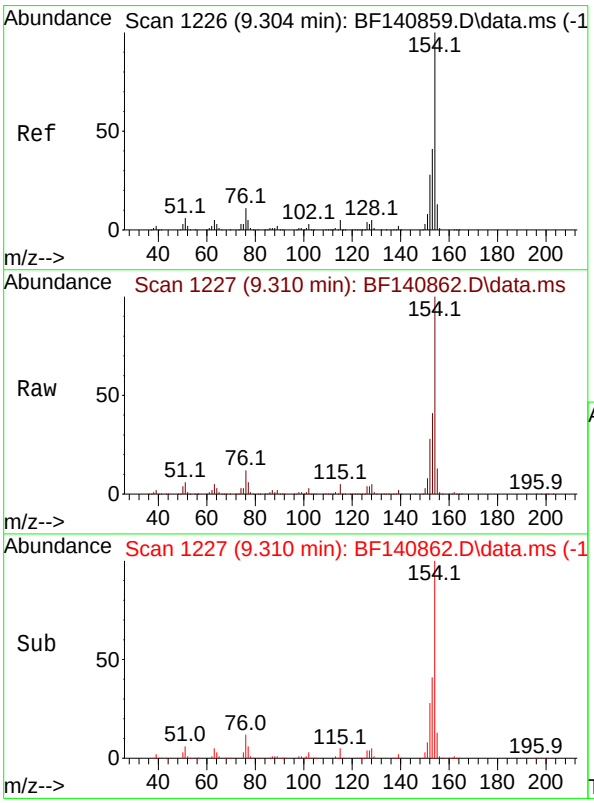
#45
2-Fluorobiphenyl
Concen: 166.807 ng
RT: 9.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 2054327

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.4	42.6
170	24.0	18.6	28.0

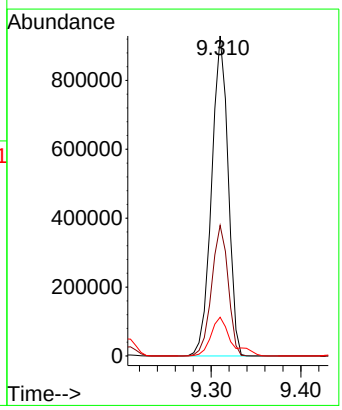


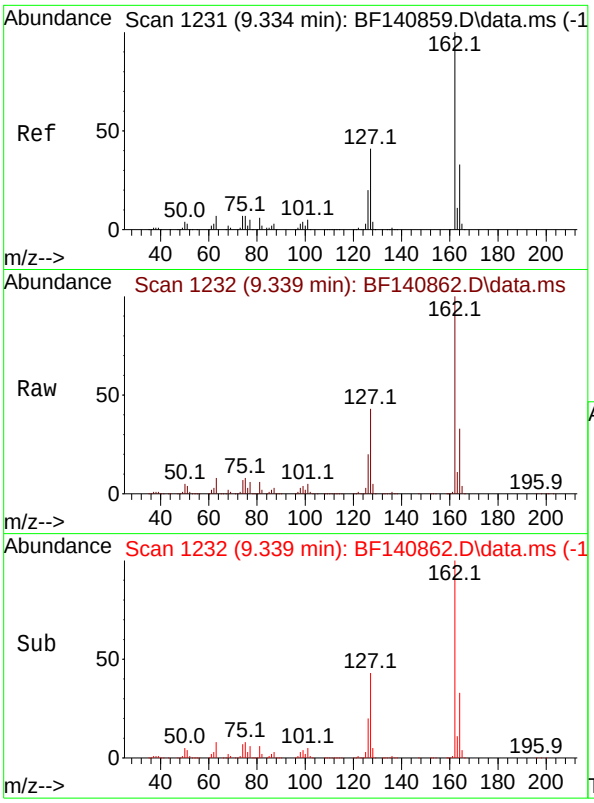


#46
1,1'-Biphenyl
Concen: 88.155 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:154 Resp: 1186930

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	12.1	0.0	31.0



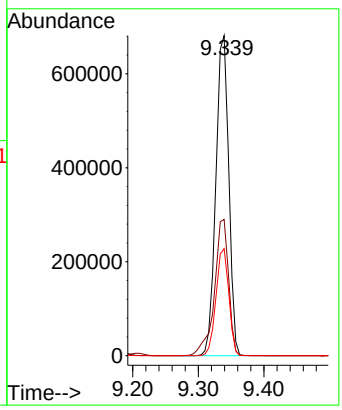


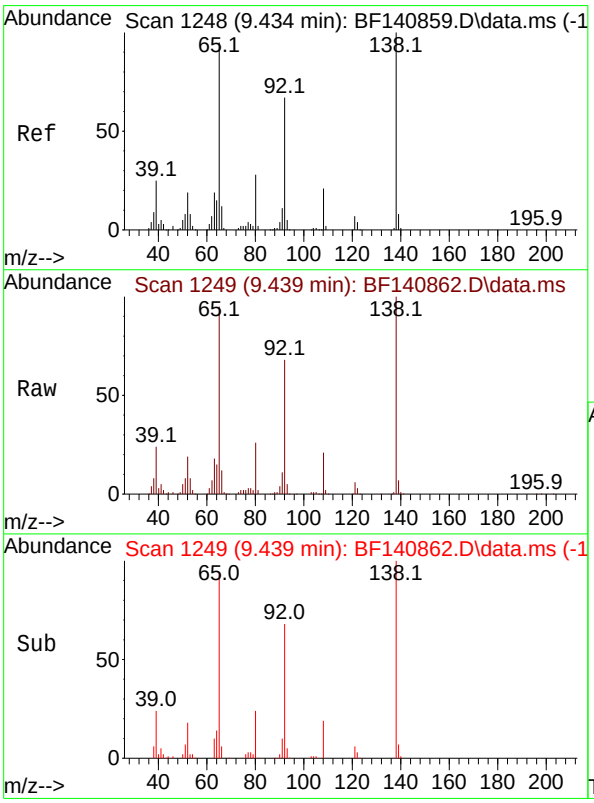
#47
2-Chloronaphthalene
Concen: 90.075 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 927799

Ion	Ratio	Lower	Upper
162	100		
127	42.6	33.5	50.3
164	33.4	26.2	39.2

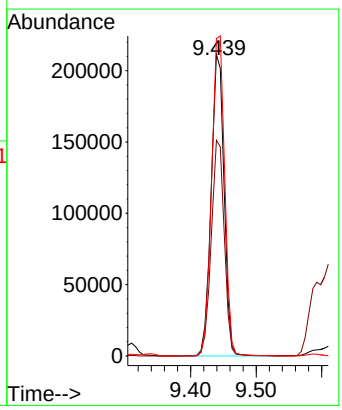


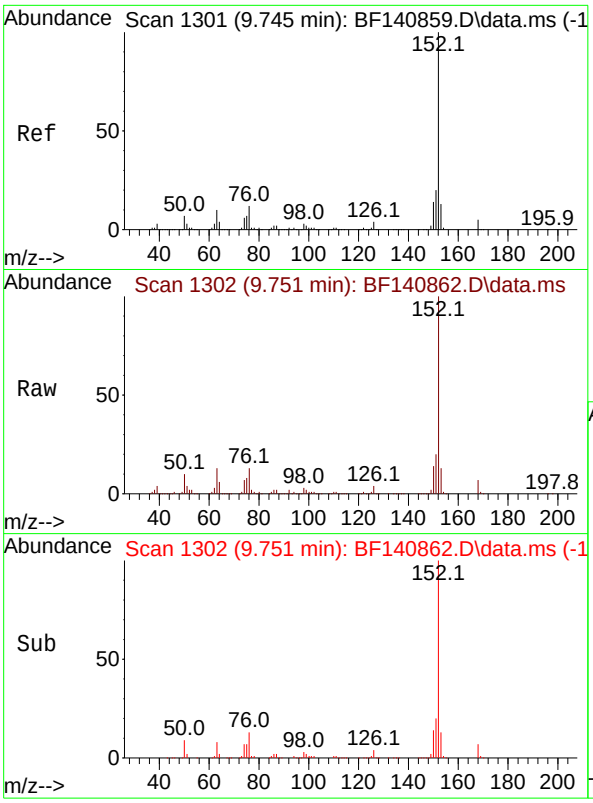


#48
2-Nitroaniline
Concen: 93.162 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion: 65 Resp: 289810

Ion	Ratio	Lower	Upper
65	100		
92	71.5	56.3	84.5
138	105.3	83.8	125.6



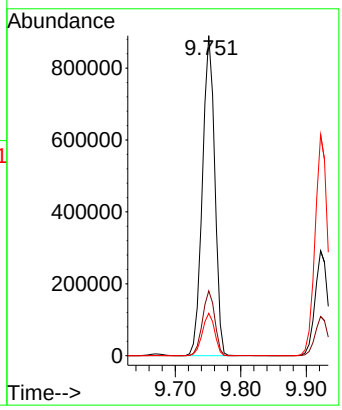


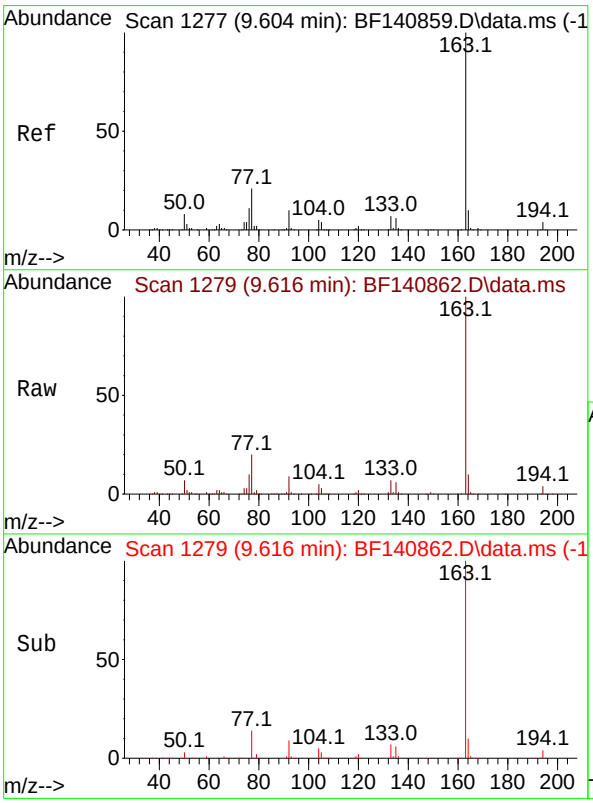
#49
Acenaphthylene
Concen: 77.278 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 1169747

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.0	24.0
153	13.3	10.6	16.0

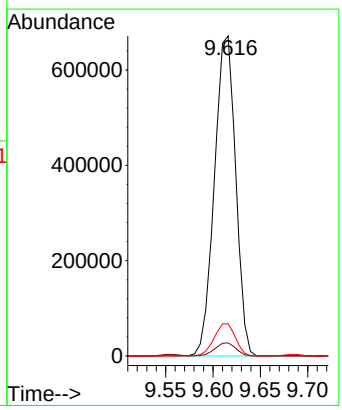


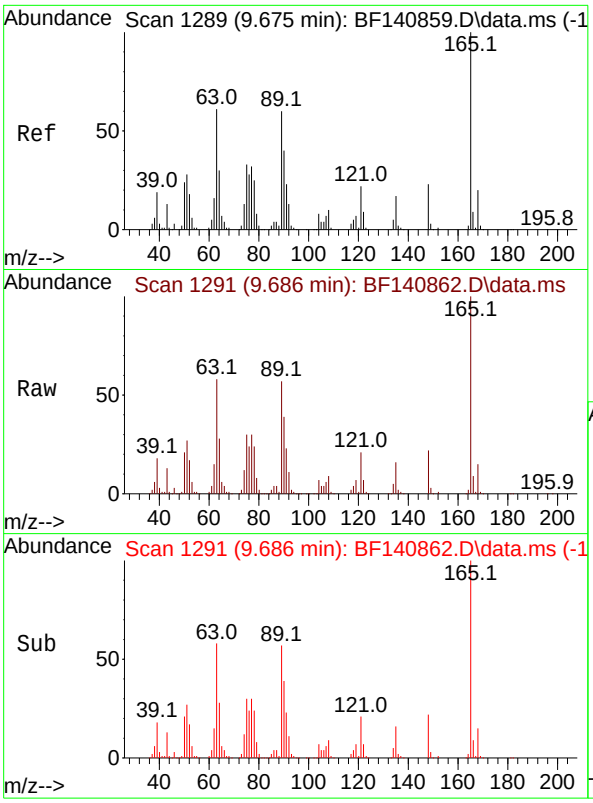


#50
Dimethylphthalate
Concen: 87.890 ng
RT: 9.616 min Scan# 1279
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:163 Resp: 1049196

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.1	8.1	12.1



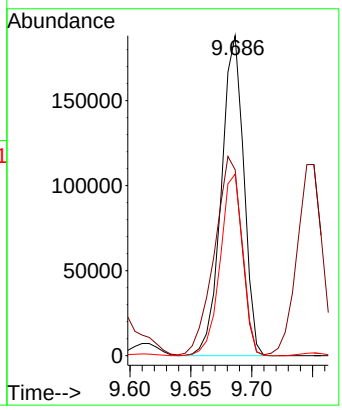


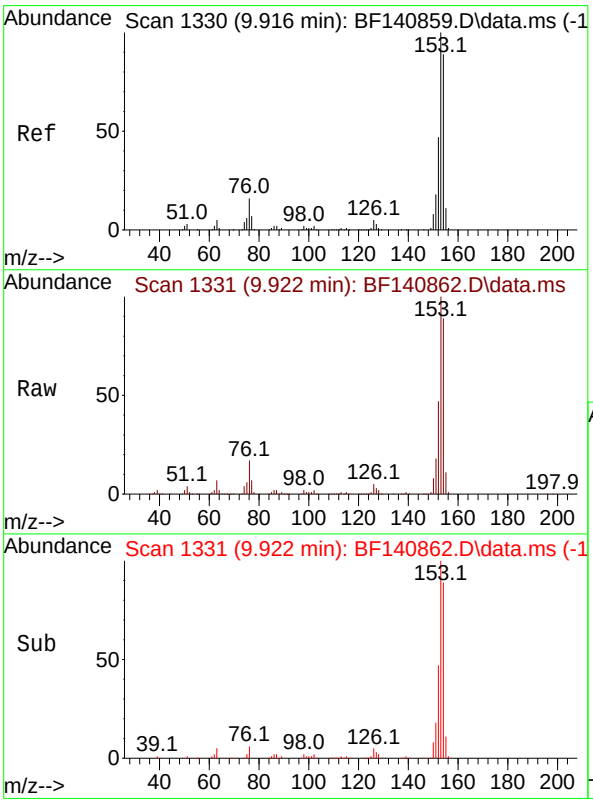
#51
2,6-Dinitrotoluene
Concen: 88.104 ng
RT: 9.686 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 240439

Ion	Ratio	Lower	Upper
165	100		
63	58.1	49.7	74.5
89	56.8	48.2	72.4

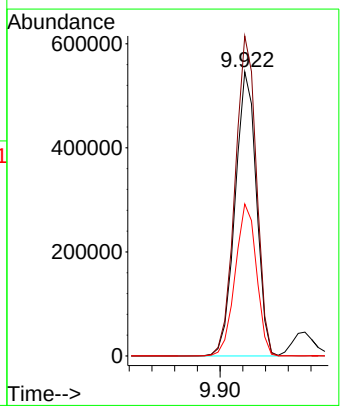


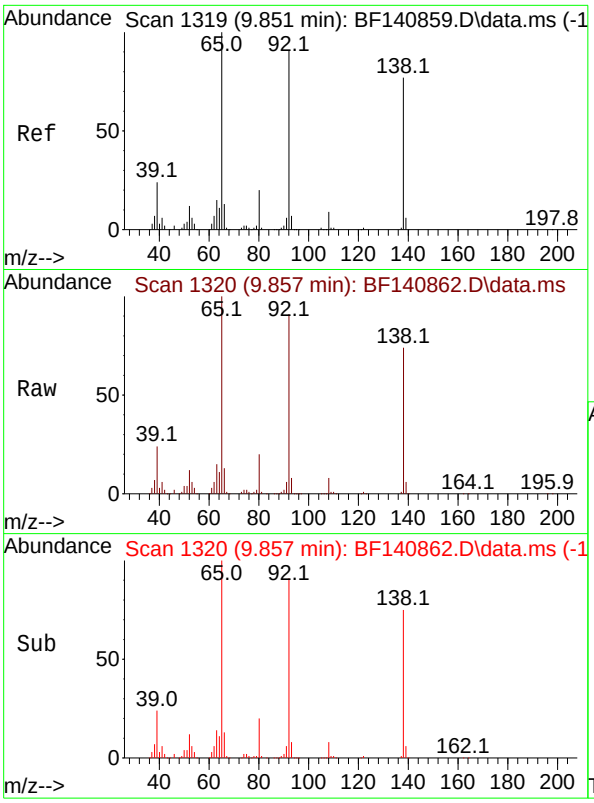


#52
Acenaphthene
Concen: 73.511 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:154 Resp: 710789

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.9	134.9
152	53.5	42.6	63.8



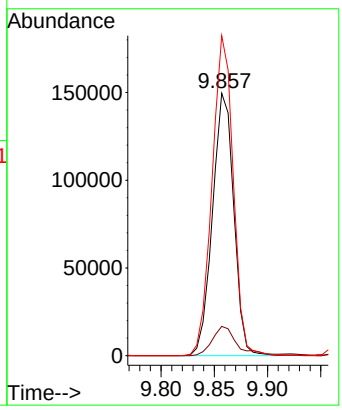


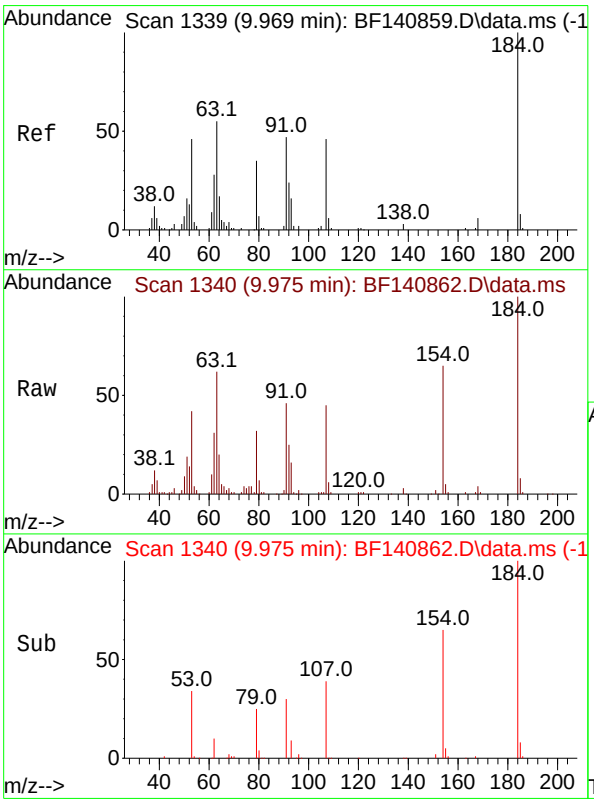
#53
3-Nitroaniline
Concen: 76.804 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 208004

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	122.0	95.5	143.3

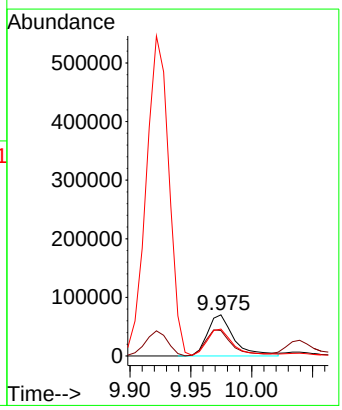


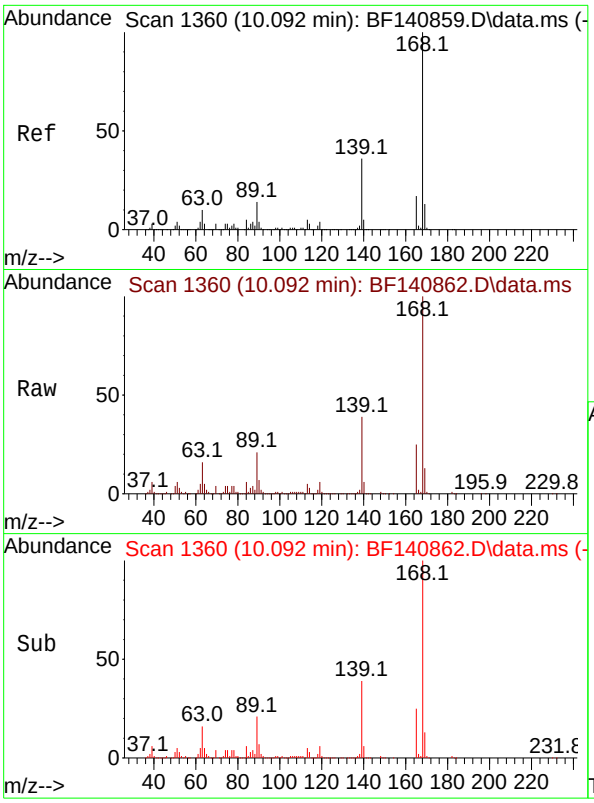


#54
2,4-Dinitrophenol
Concen: 79.797 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:184 Resp: 106230

Ion	Ratio	Lower	Upper
184	100		
63	62.0	51.6	77.4
154	65.4	56.1	84.1



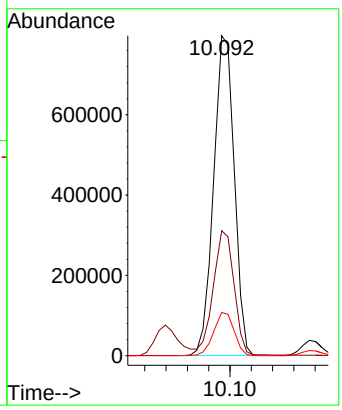


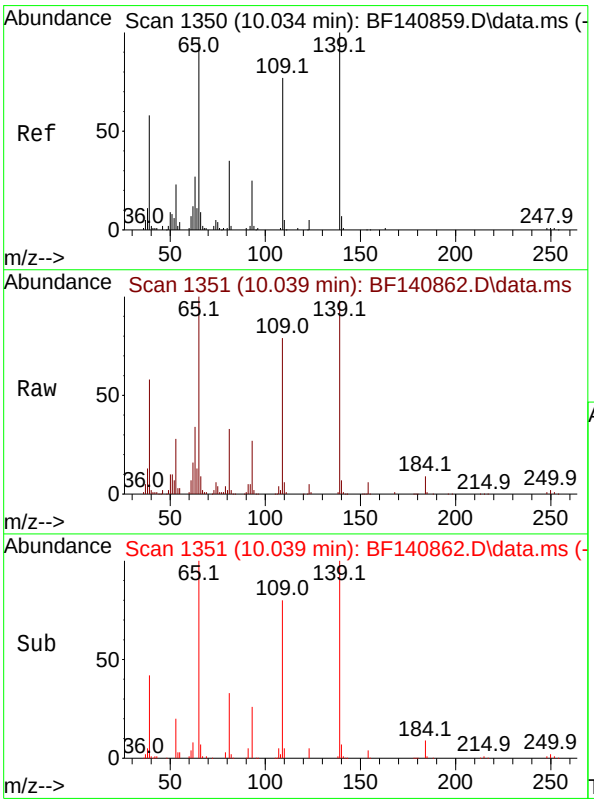
#55
Dibenzofuran
Concen: 71.543 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 1071923

Ion	Ratio	Lower	Upper
168	100		
139	39.1	31.1	46.7
169	13.5	10.6	16.0

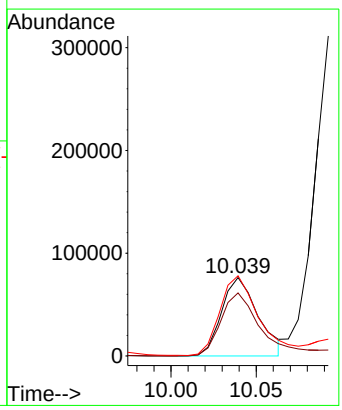


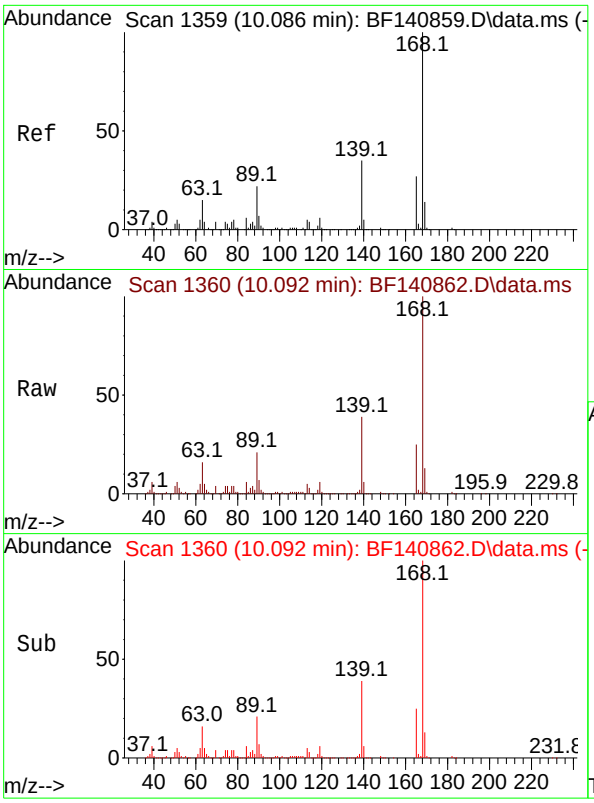


#56
4-Nitrophenol
Concen: 77.685 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.005 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:139 Resp: 112972

Ion	Ratio	Lower	Upper
139	100		
109	80.5	56.7	96.7
65	102.3	78.1	118.1



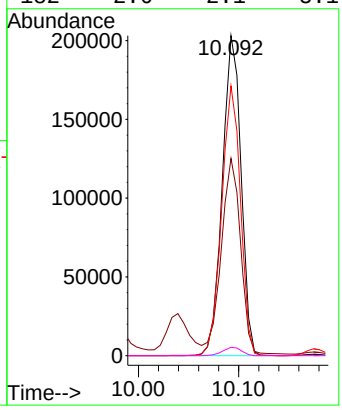


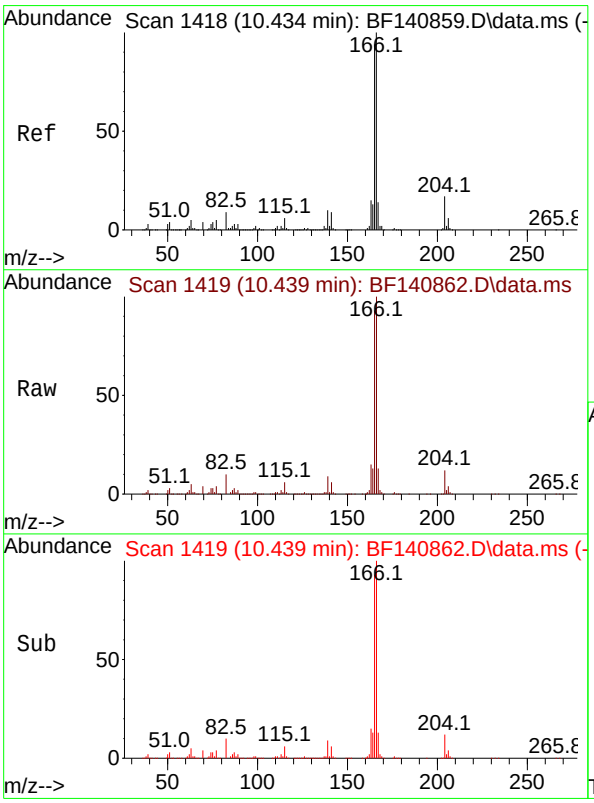
#57
2,4-Dinitrotoluene
Concen: 73.423 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 263636

Ion	Ratio	Lower	Upper
165	100		
63	61.7	49.3	73.9
89	84.3	66.2	99.4
182	2.6	2.1	3.1

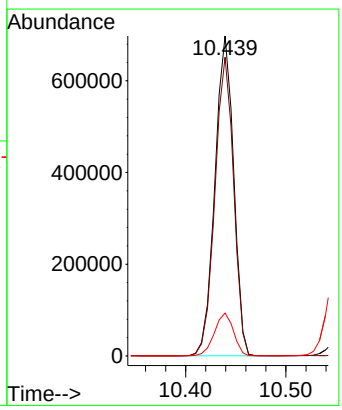


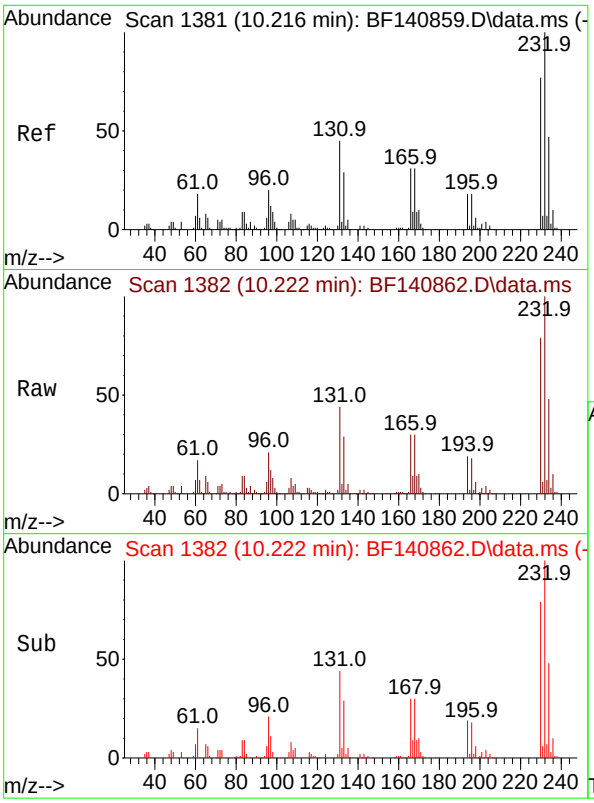


#58
Fluorene
Concen: 73.147 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:166 Resp: 904163

Ion	Ratio	Lower	Upper
166	100		
165	93.3	75.1	112.7
167	13.4	11.1	16.7



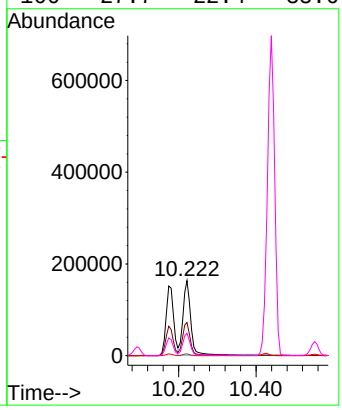


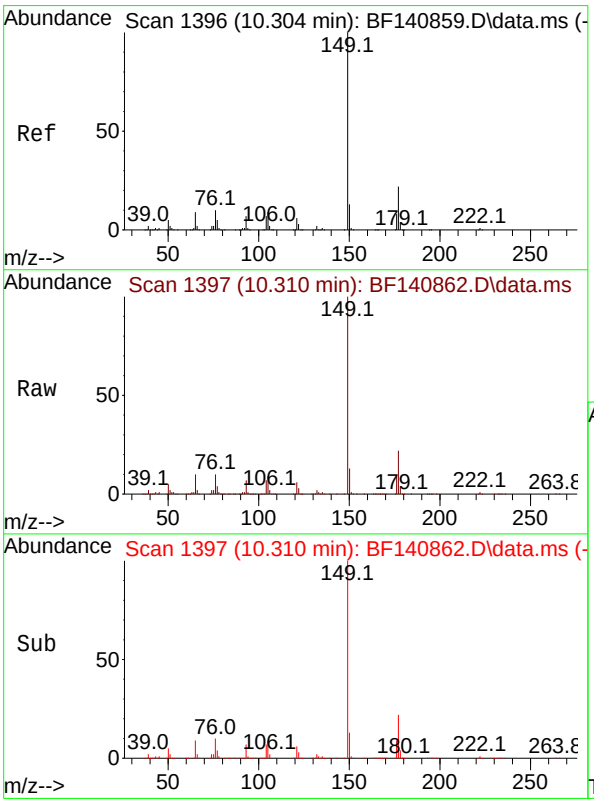
#59
2,3,4,6-Tetrachlorophenol
Concen: 80.870 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 230812

Ion	Ratio	Lower	Upper
232	100		
131	43.4	35.1	52.7
130	2.1	1.8	2.8
166	27.7	22.4	33.6

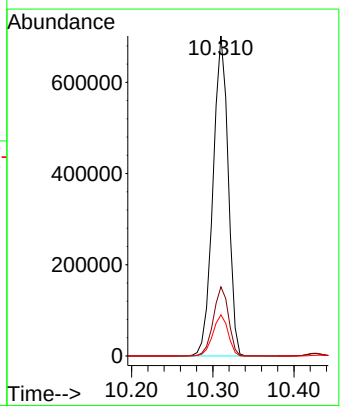


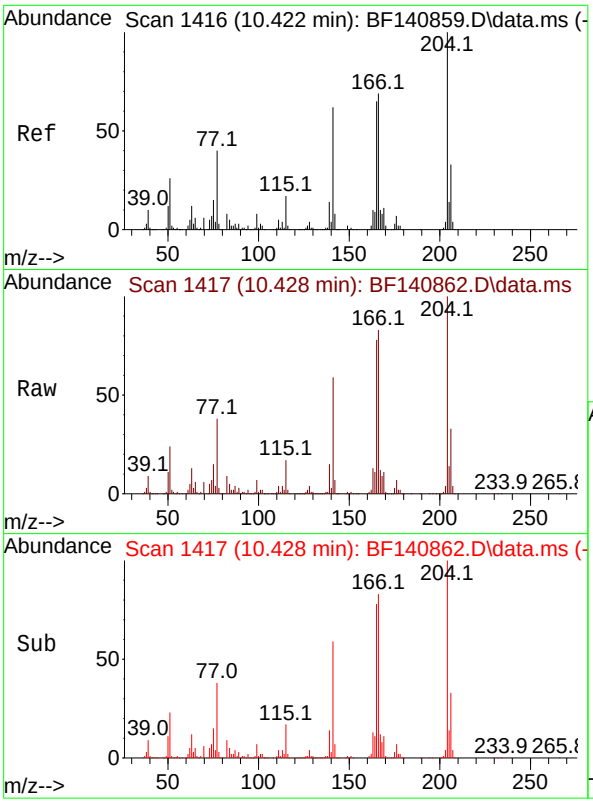


#60
Diethylphthalate
Concen: 73.664 ng
RT: 10.310 min Scan# 1397
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 911868

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.2	25.8
150	12.8	10.1	15.1



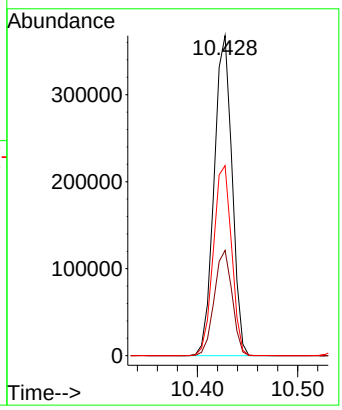


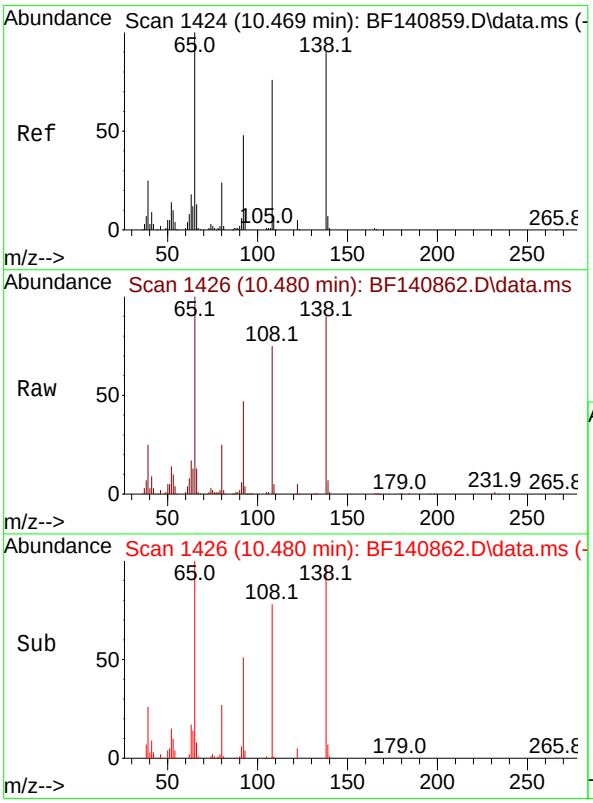
#61
4-Chlorophenyl-phenylether
Concen: 73.562 ng
RT: 10.428 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 456754

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.5	39.7
141	59.4	50.0	75.0

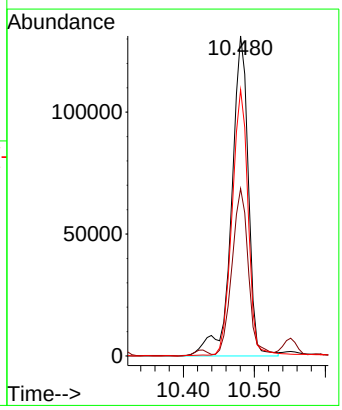


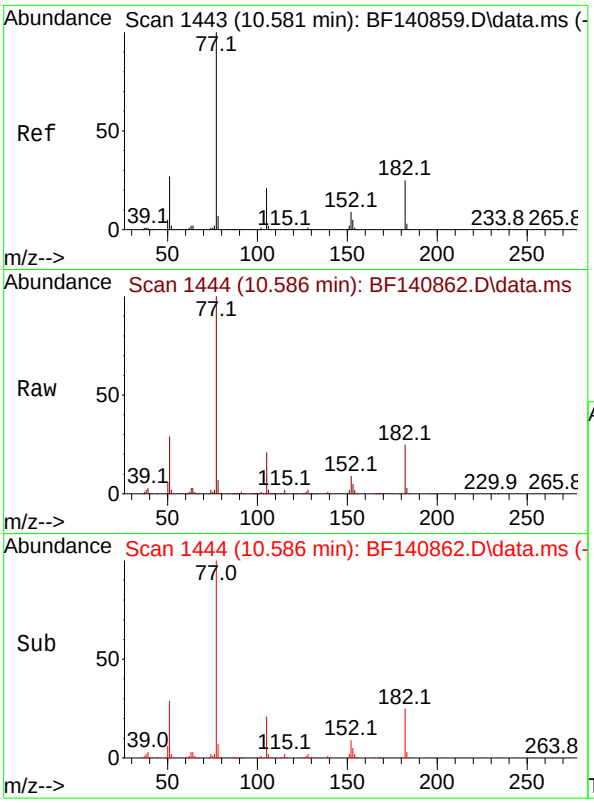


#62
4-Nitroaniline
Concen: 76.547 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:138 Resp: 216635

Ion	Ratio	Lower	Upper
138	100		
92	52.3	32.6	72.6
108	83.2	64.1	104.1



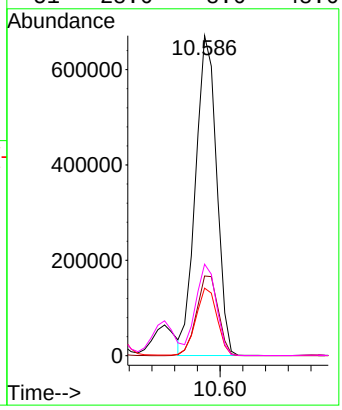


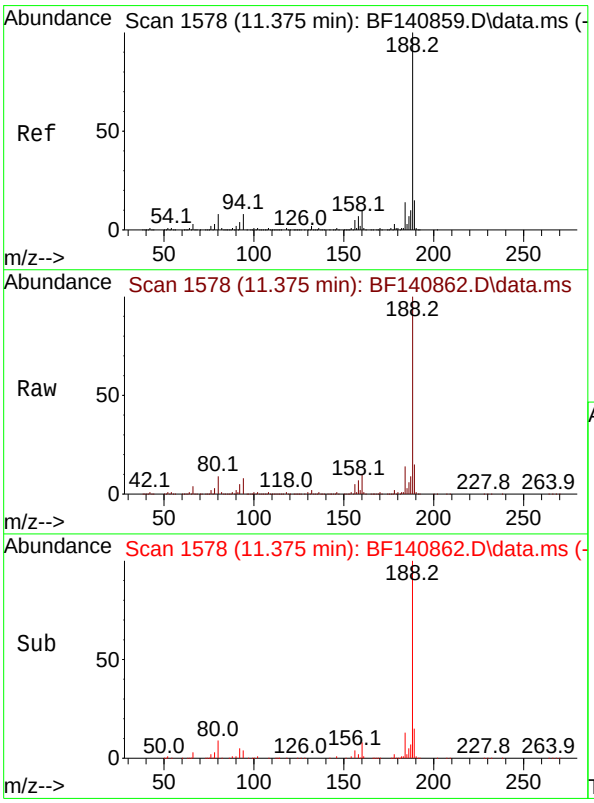
#63
Azobenzene
Concen: 74.110 ng
RT: 10.586 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 862457

Ion	Ratio	Lower	Upper
77	100		
182	24.9	4.5	44.5
105	21.1	0.9	40.9
51	28.6	8.6	48.6

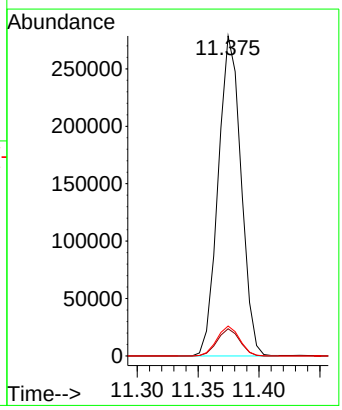


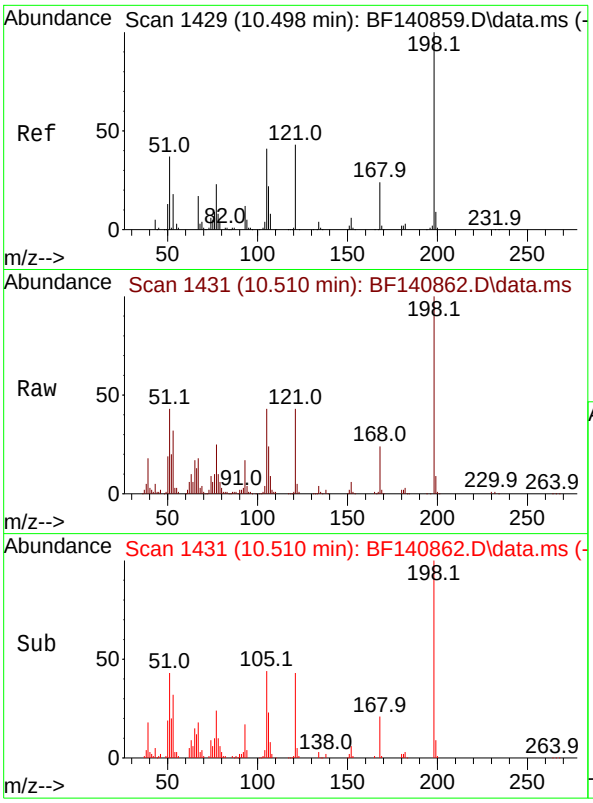


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:188 Resp: 364516

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	9.4	6.8	10.2



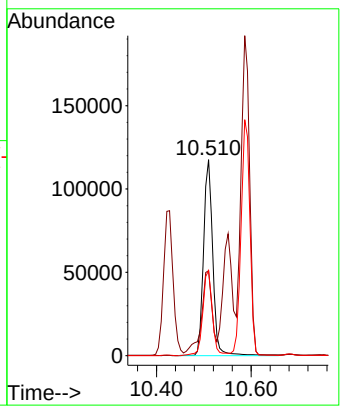


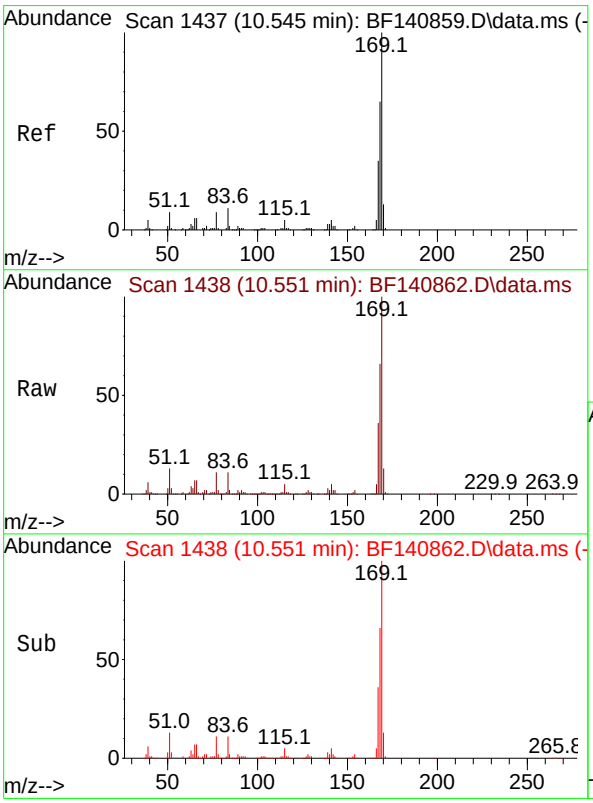
#65
4,6-Dinitro-2-methylphenol
Concen: 76.975 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 158996

Ion	Ratio	Lower	Upper
198	100		
51	43.3	24.4	64.4
105	43.4	22.1	62.1

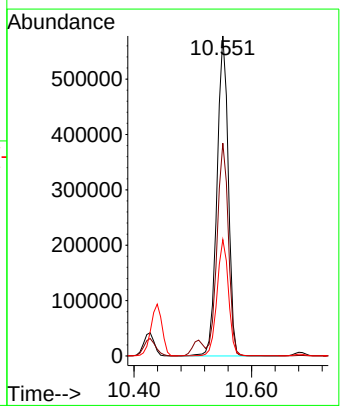


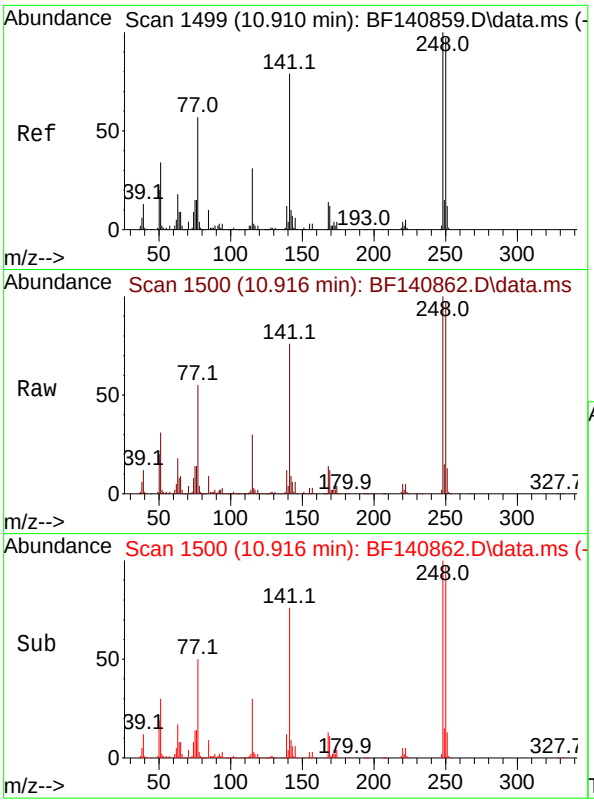


#66
n-Nitrosodiphenylamine
Concen: 68.519 ng
RT: 10.551 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:169 Resp: 767906

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.4	80.0
167	36.3	28.3	42.5



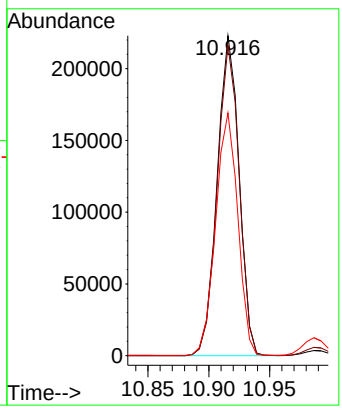


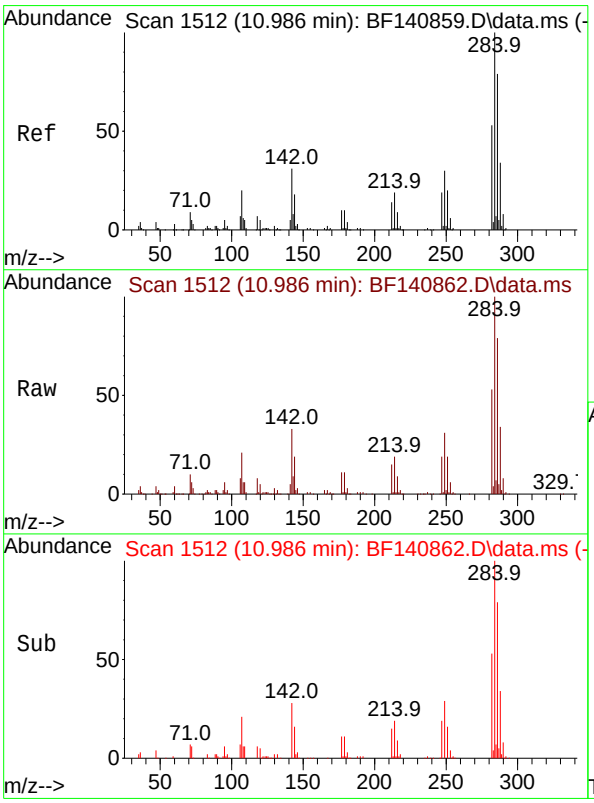
#67
4-Bromophenyl-phenylether
Concen: 68.648 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 279941

Ion	Ratio	Lower	Upper
248	100		
250	96.9	77.4	116.2
141	75.9	62.9	94.3

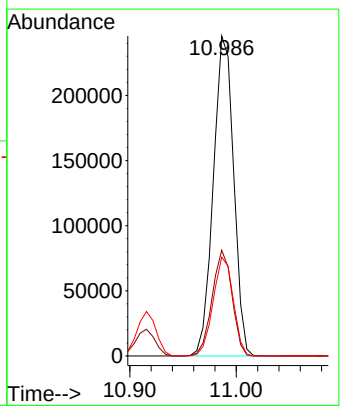


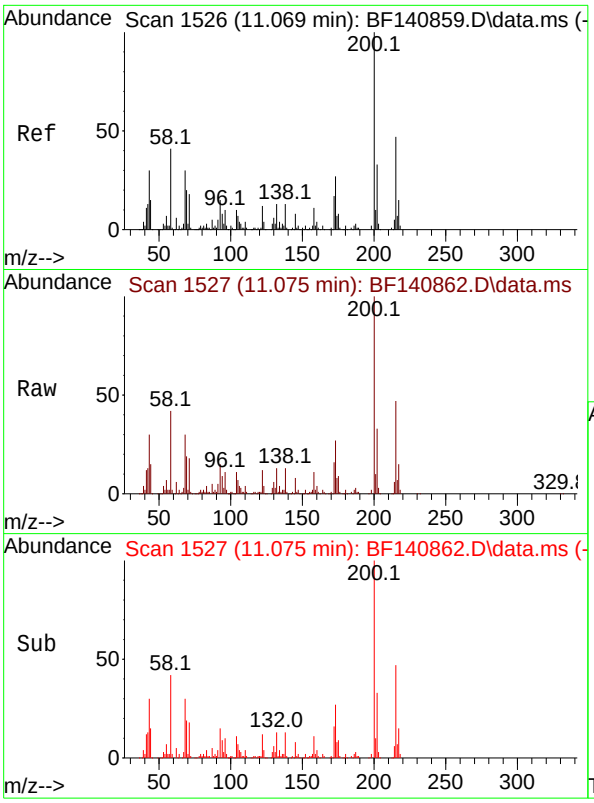


#68
Hexachlorobenzene
Concen: 70.220 ng
RT: 10.986 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:284 Resp: 324661

Ion	Ratio	Lower	Upper
284	100		
142	33.1	24.6	36.8
249	30.9	24.3	36.5



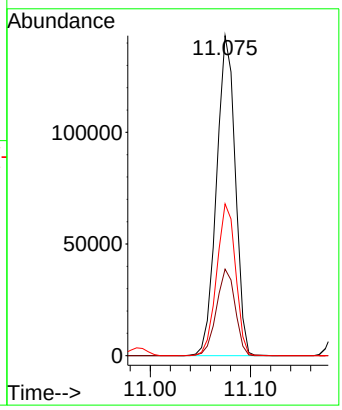


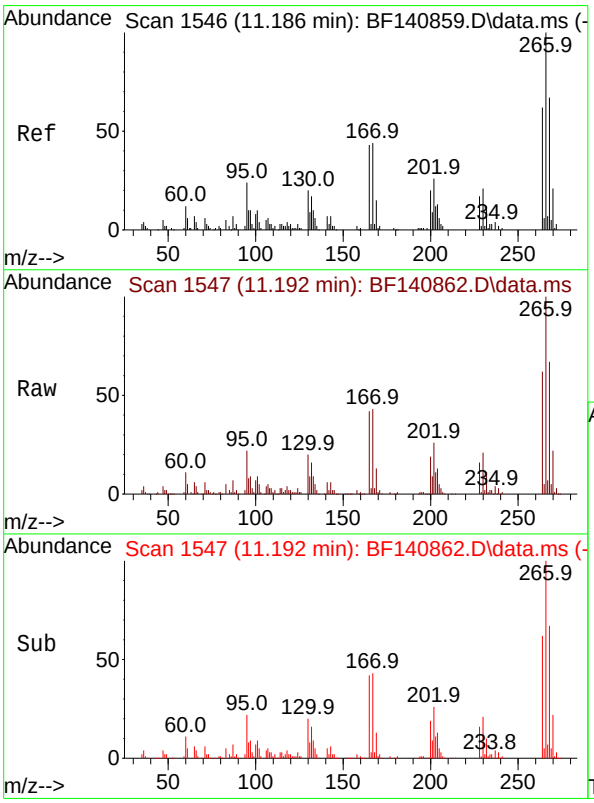
#69
Atrazine
Concen: 59.385 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 185877

Ion	Ratio	Lower	Upper
200	100		
173	27.1	6.6	46.6
215	47.4	26.7	66.7

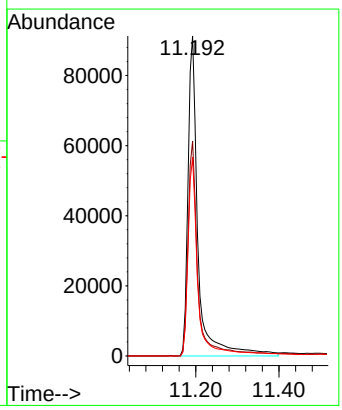


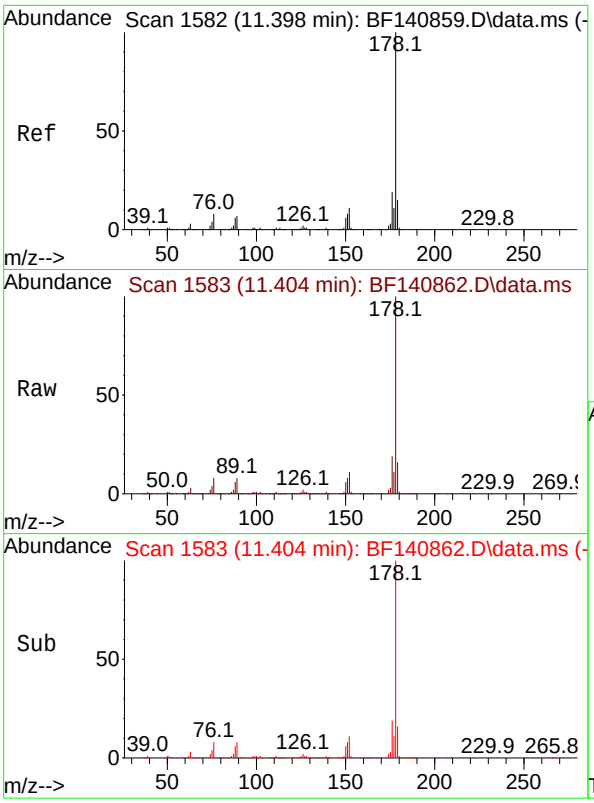


#70
Pentachlorophenol
Concen: 91.050 ng
RT: 11.192 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:266 Resp: 153999

Ion	Ratio	Lower	Upper
266	100		
268	67.1	54.0	81.0
264	62.1	49.4	74.2



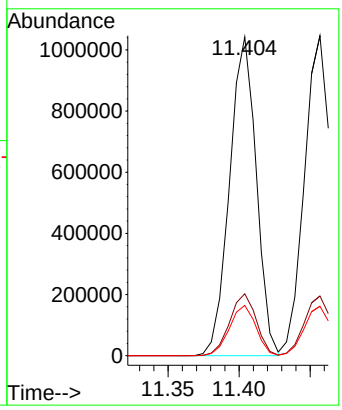


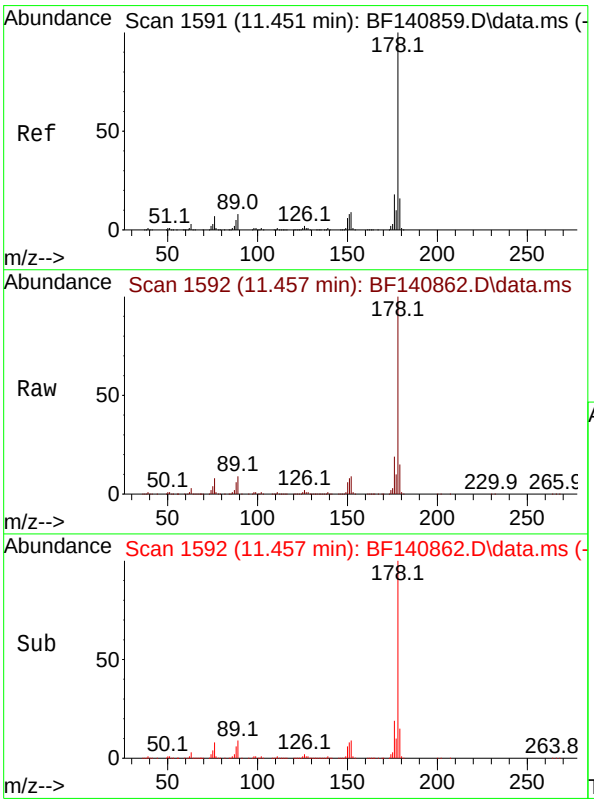
#71
Phenanthrene
Concen: 72.850 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1365579

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.8	12.1	18.1

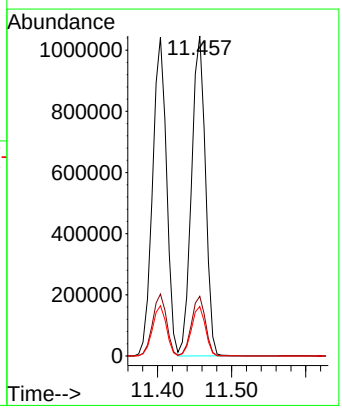


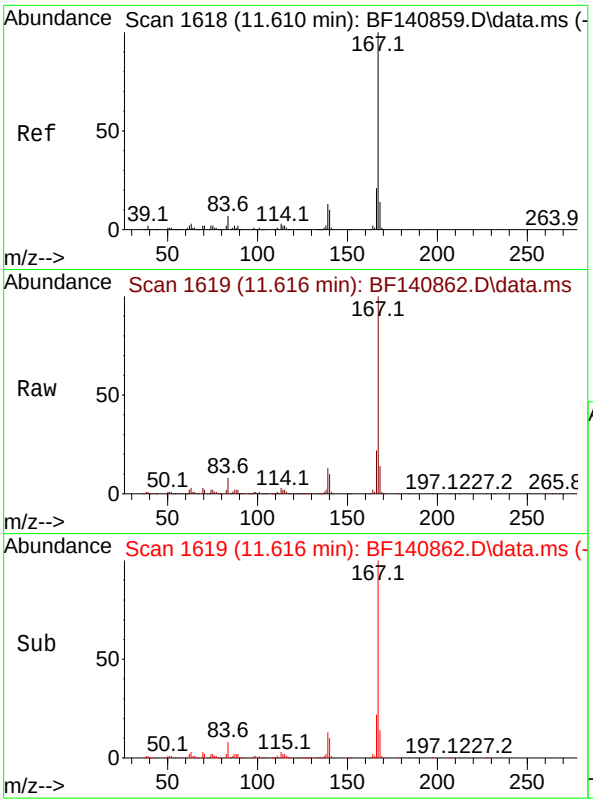


#72
Anthracene
Concen: 73.769 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:178 Resp: 1361788

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.6	22.0
179	15.4	12.6	18.8



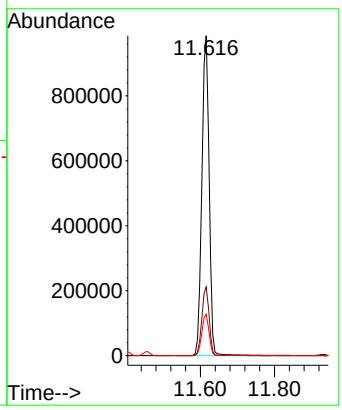


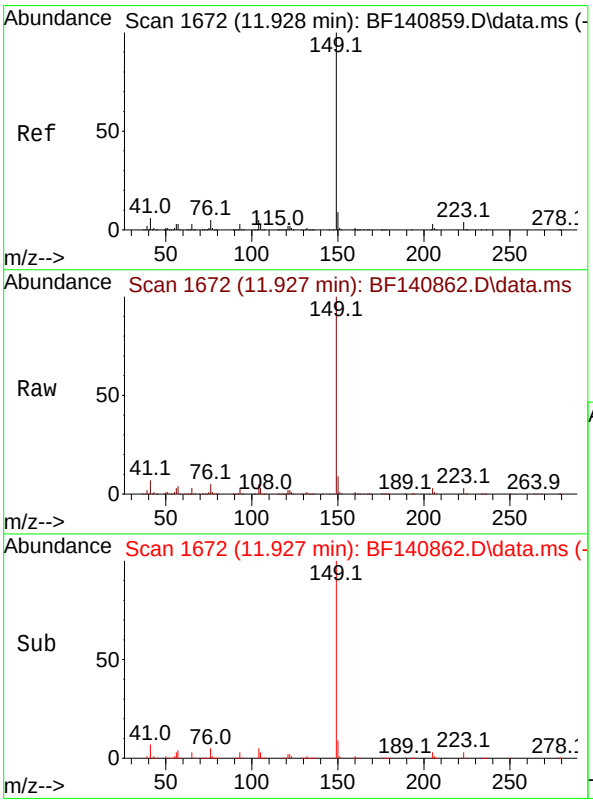
#73
Carbazole
Concen: 74.170 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 1341097

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	12.9	10.2	15.2

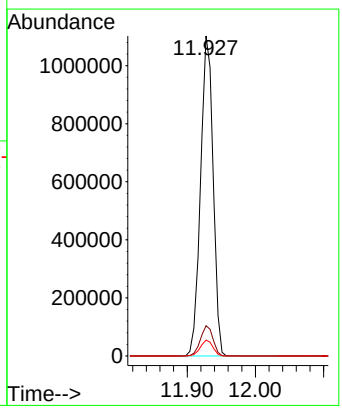


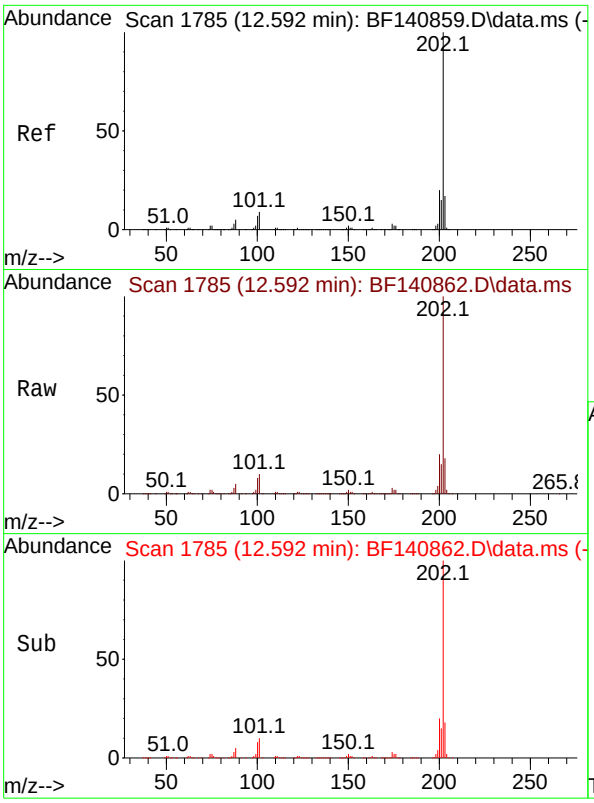


#74
Di-n-butylphthalate
Concen: 66.492 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 1410986

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.5	11.3
104	5.0	3.8	5.8



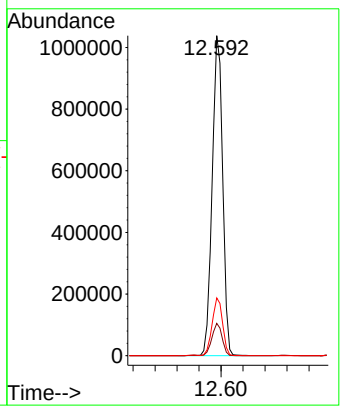


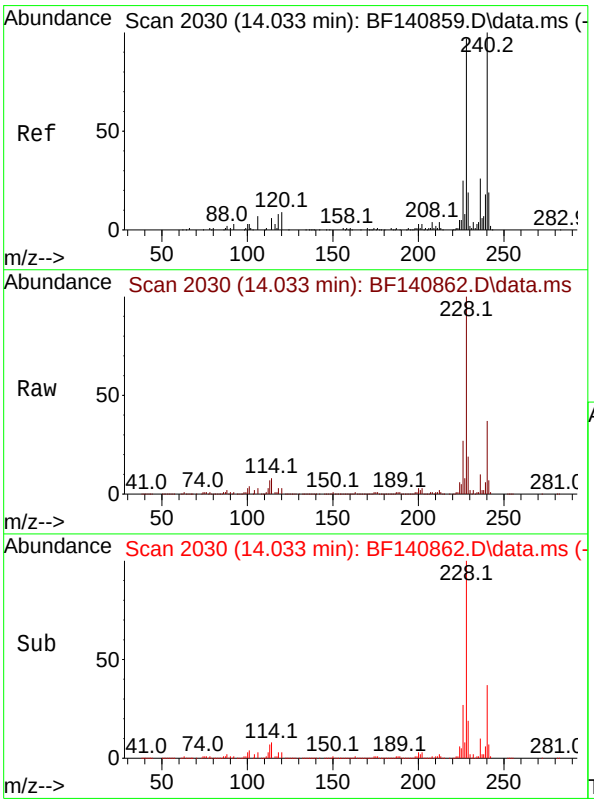
#75
Fluoranthene
Concen: 63.687 ng
RT: 12.592 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 1374862

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.3
203	18.1	0.0	37.4

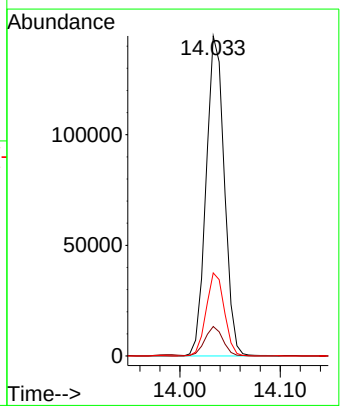


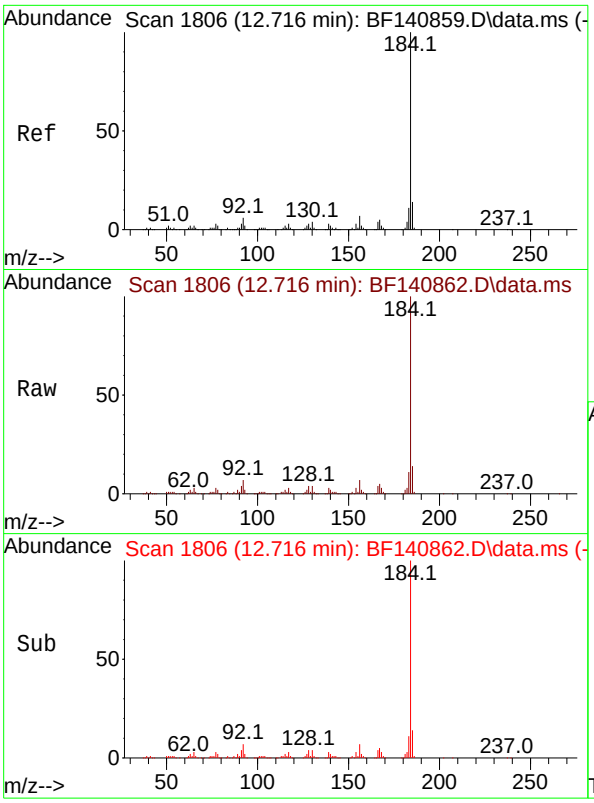


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:240 Resp: 182739

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.6	11.4
236	26.0	20.5	30.7



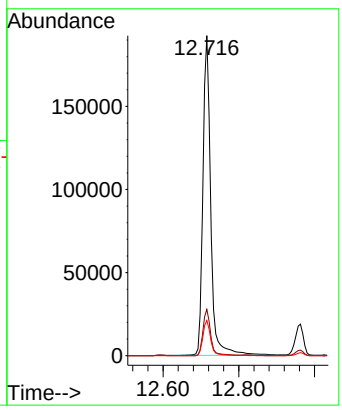


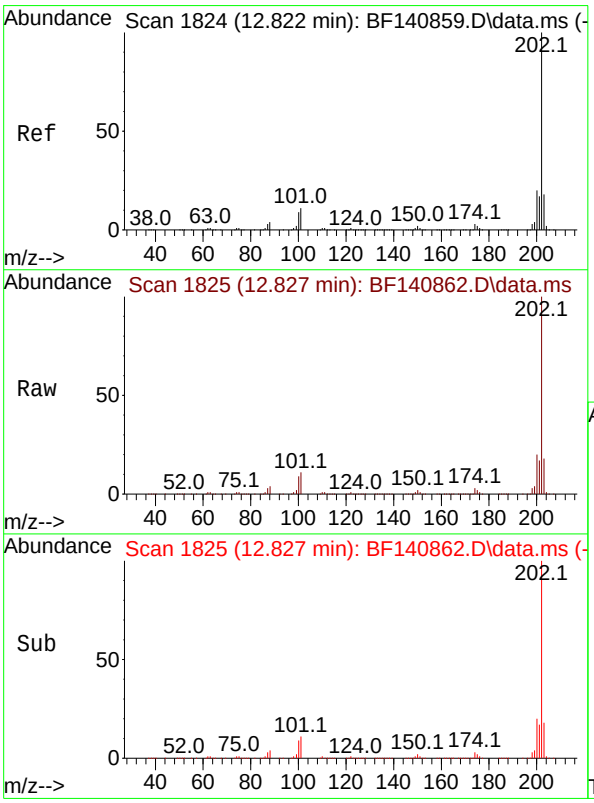
#77
Benzidine
Concen: 74.064 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 276230

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.1	16.7
183	11.0	9.0	13.4

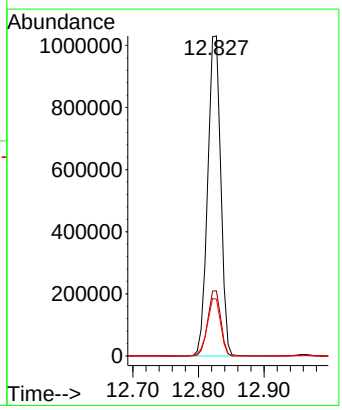


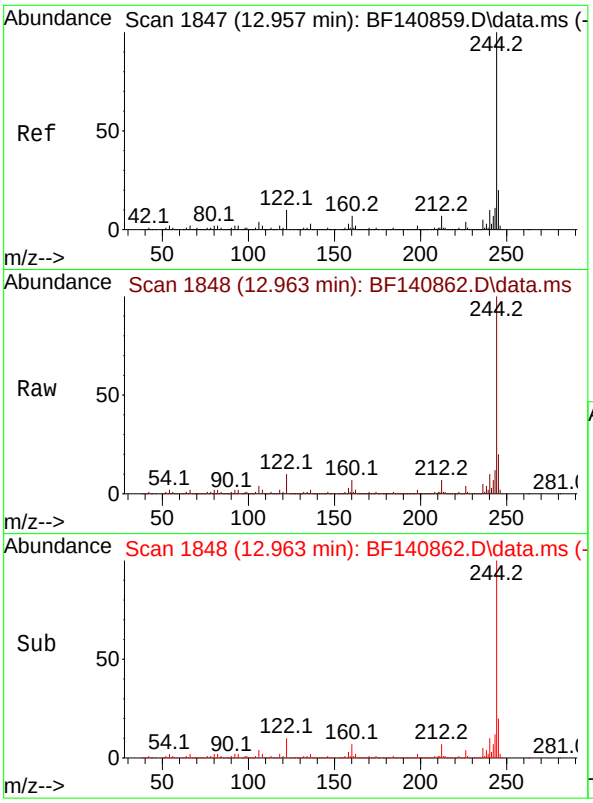


#78
Pyrene
Concen: 87.621 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:202 Resp: 1423860

Ion	Ratio	Lower	Upper
202	100		
200	20.3	16.1	24.1
203	17.8	14.2	21.4



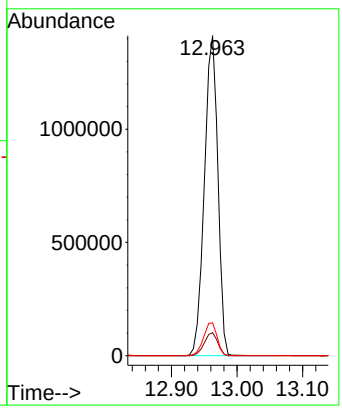


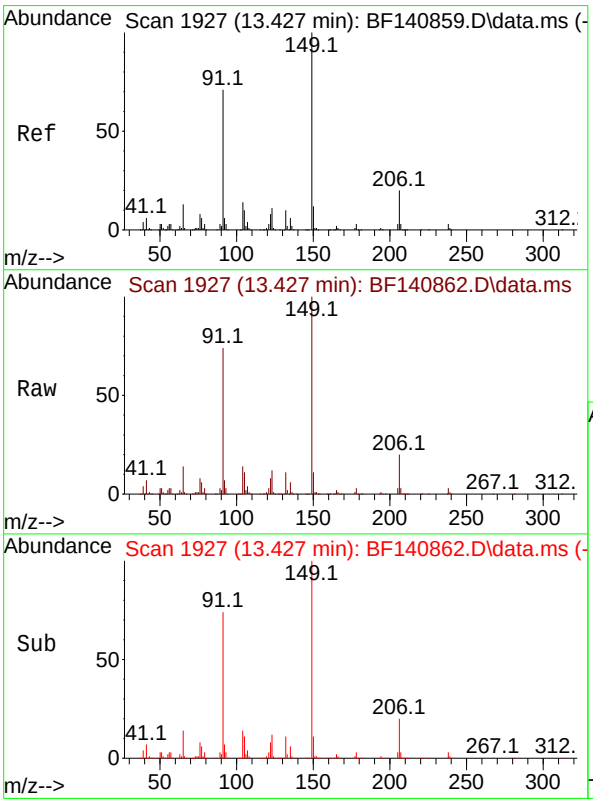
#79
Terphenyl-d14
Concen: 174.221 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 2018997

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	10.2	8.2	12.2

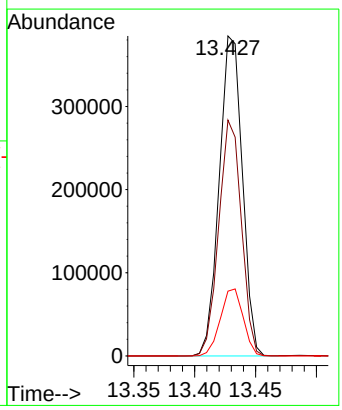


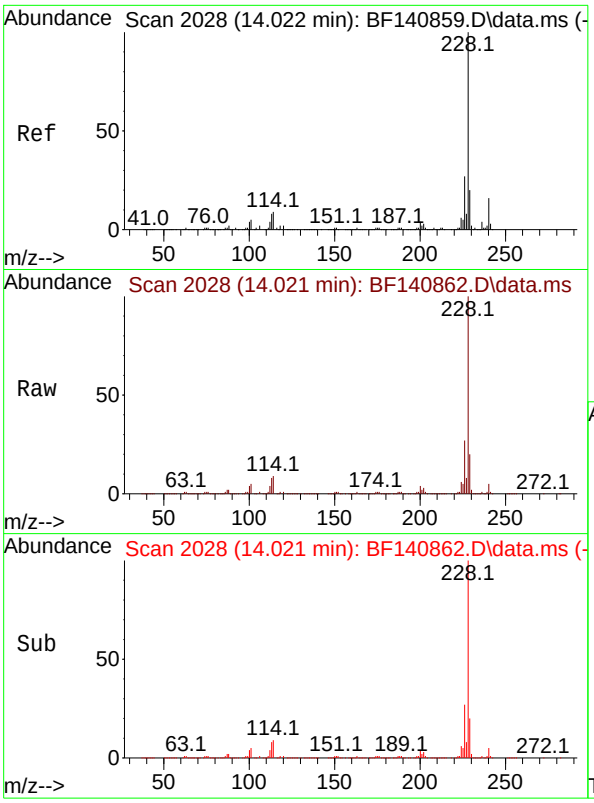


#80
Butylbenzylphthalate
Concen: 85.043 ng
RT: 13.427 min Scan# 1927
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 508497

Ion	Ratio	Lower	Upper
149	100		
91	73.7	56.7	85.1
206	20.3	16.4	24.6



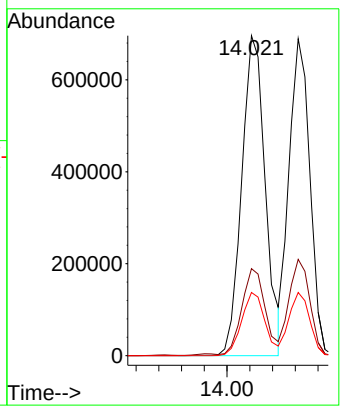


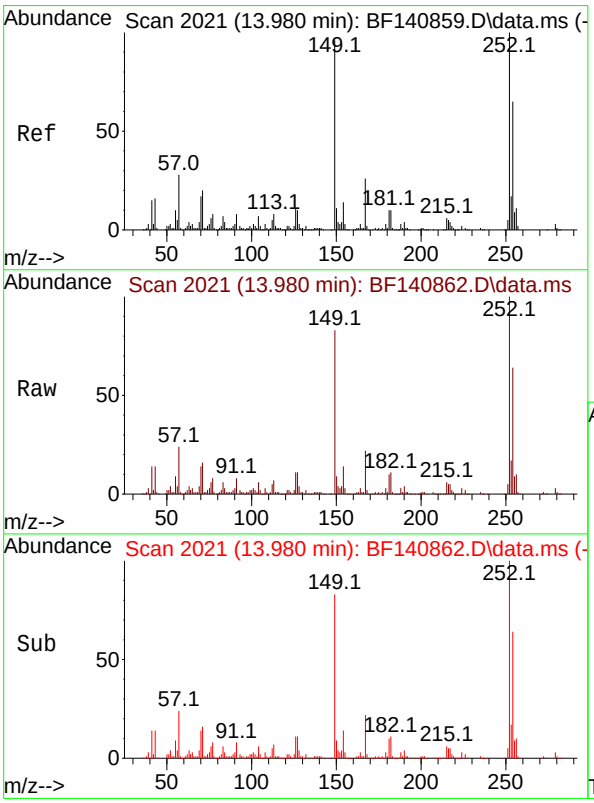
#81
Benzo(a)anthracene
Concen: 77.292 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 1001035

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	19.7	15.8	23.8

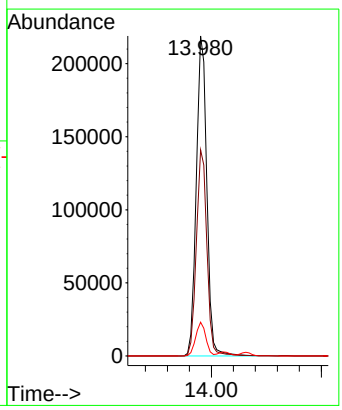


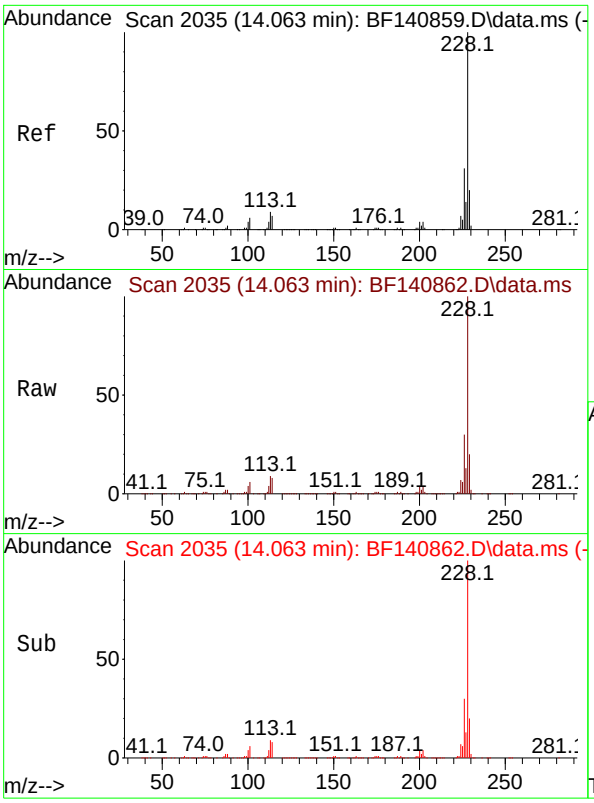


#82
3,3'-Dichlorobenzidine
Concen: 74.661 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:252 Resp: 291736

Ion	Ratio	Lower	Upper
252	100		
254	64.4	52.3	78.5
126	10.6	8.4	12.6



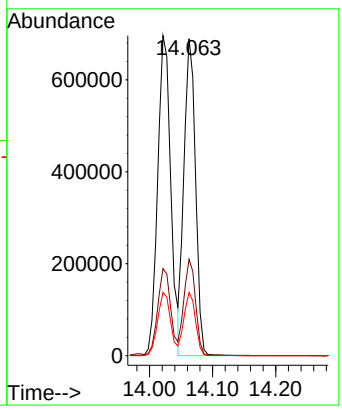


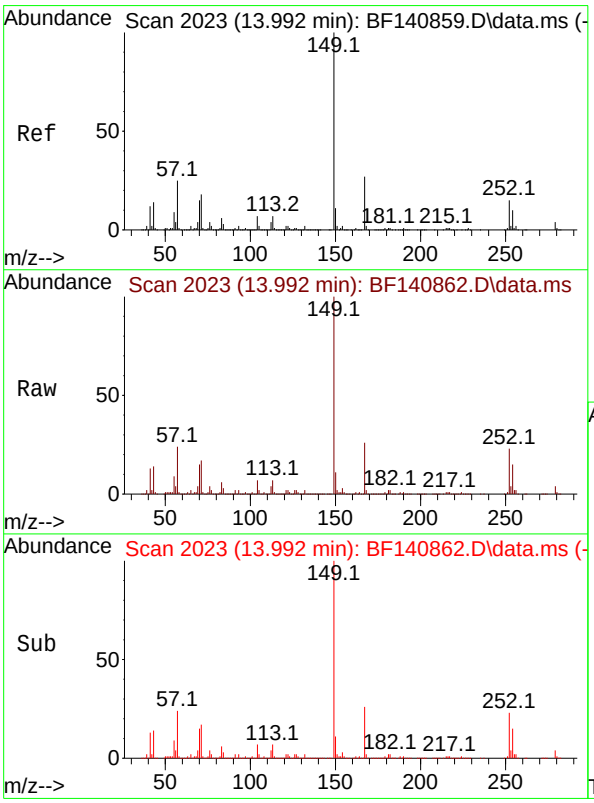
#83
Chrysene
Concen: 74.840 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 881398

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.1	36.1
229	20.0	16.0	24.0

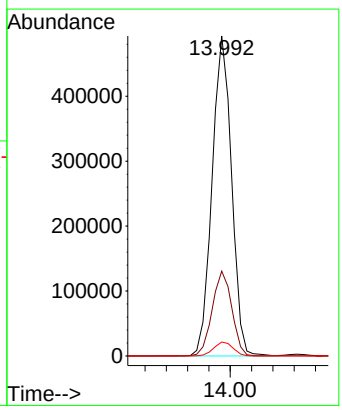


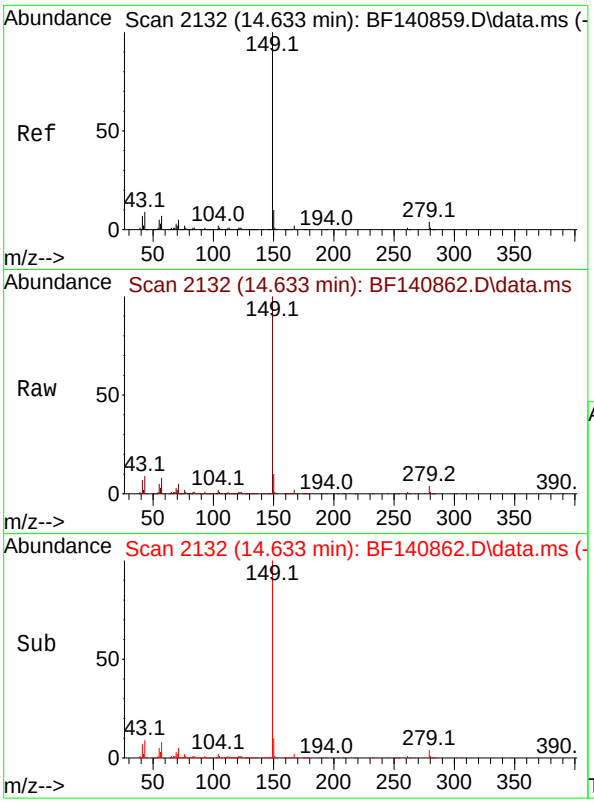


#84
Bis(2-ethylhexyl)phthalate
Concen: 81.032 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:149 Resp: 624744

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.8	32.8
279	4.3	3.5	5.3



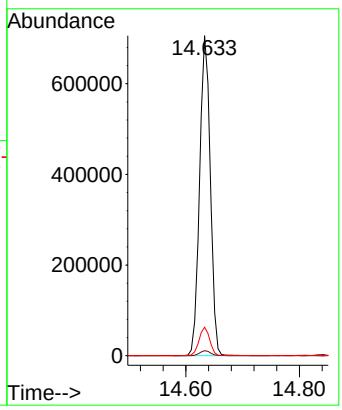


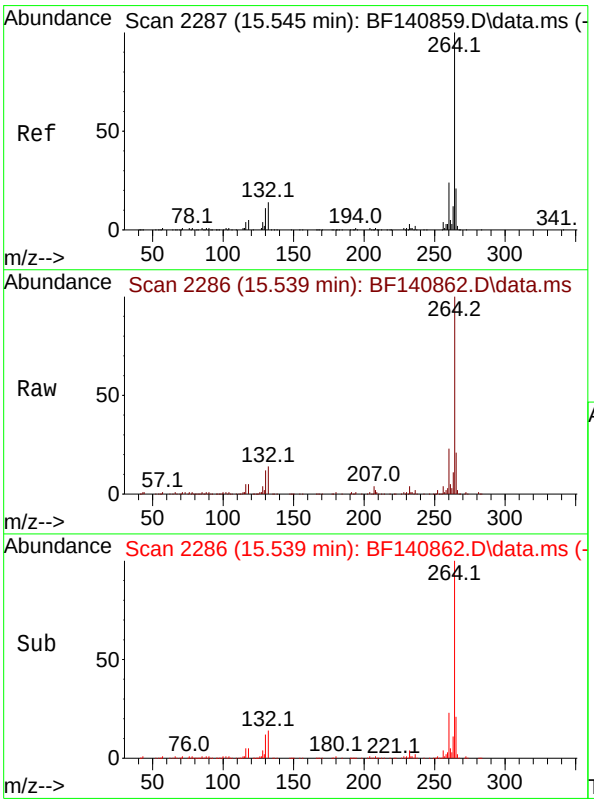
#85
Di-n-octyl phthalate
Concen: 79.125 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 922920

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.0	7.0	10.6

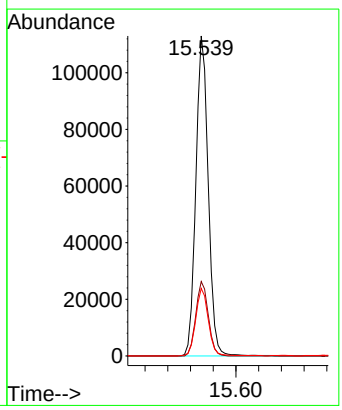


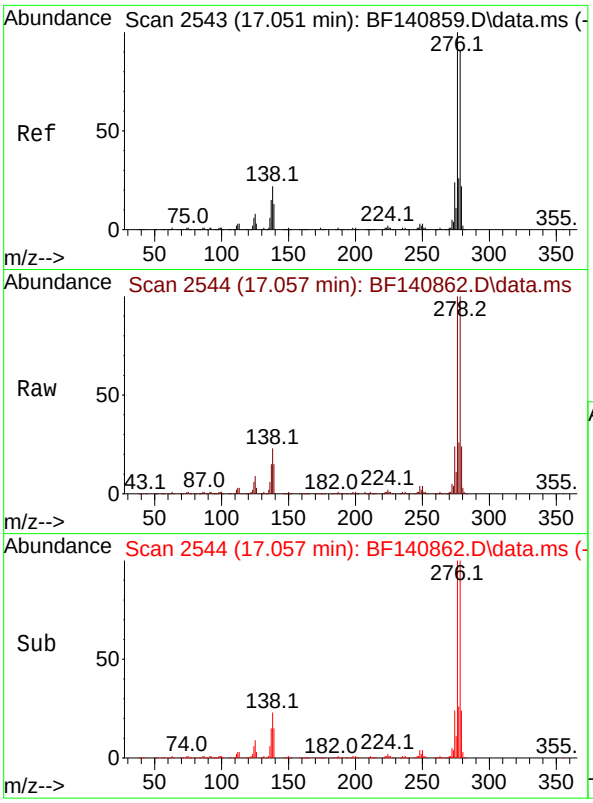


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:264 Resp: 171569

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.1	28.7
265	21.1	17.0	25.4



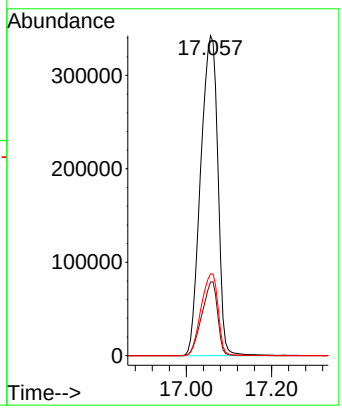


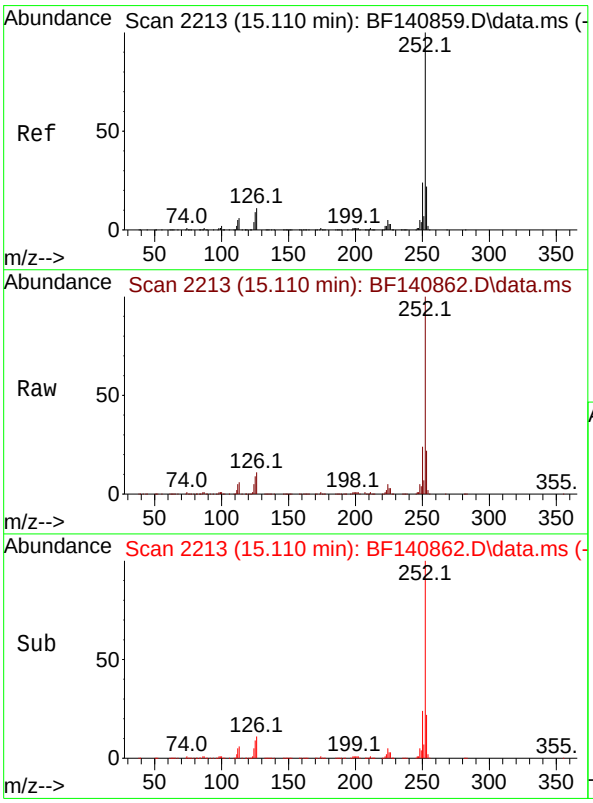
#87
Indeno(1,2,3-cd)pyrene
Concen: 89.400 ng
RT: 17.057 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 957167

Ion	Ratio	Lower	Upper
276	100		
138	21.2	16.9	25.3
277	25.2	20.2	30.4

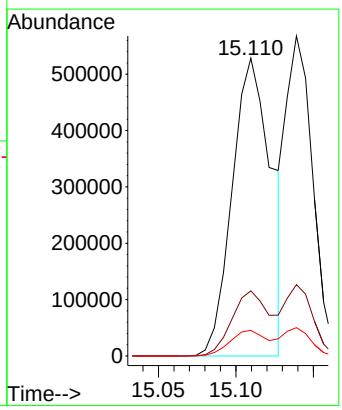


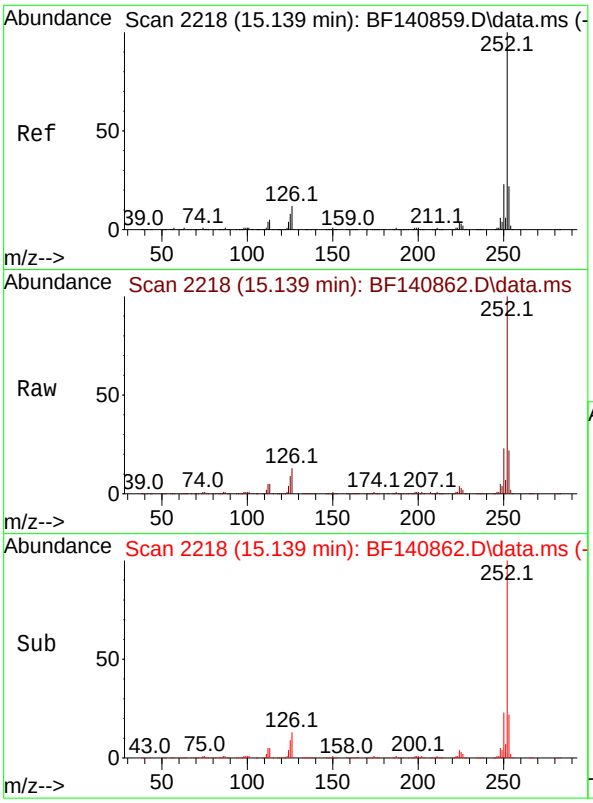


#88
Benzo(b)fluoranthene
Concen: 77.753 ng
RT: 15.110 min Scan# 2213
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:252 Resp: 925999

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.6	7.0	10.4



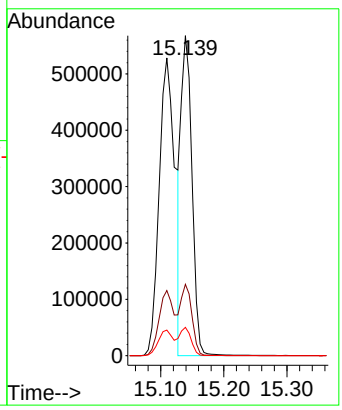


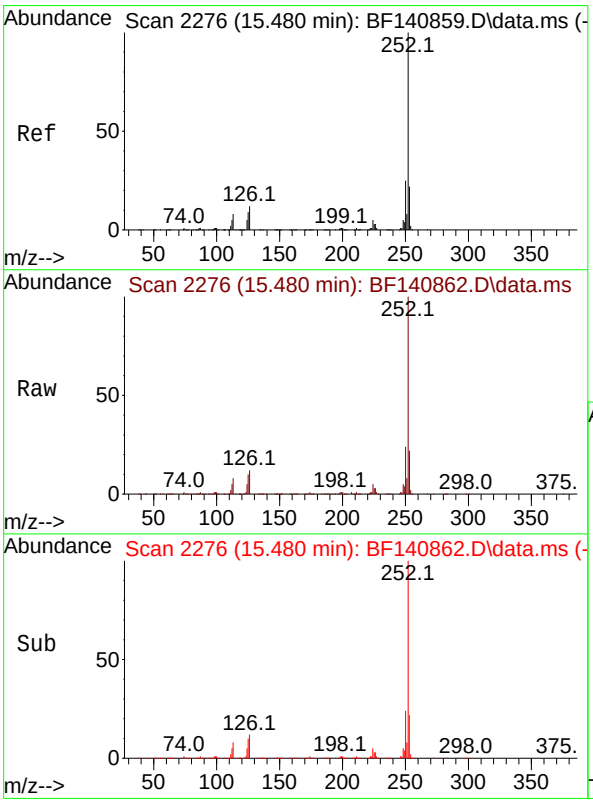
#89
Benzo(k)fluoranthene
Concen: 66.881 ng
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 683254

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	8.9	6.8	10.2

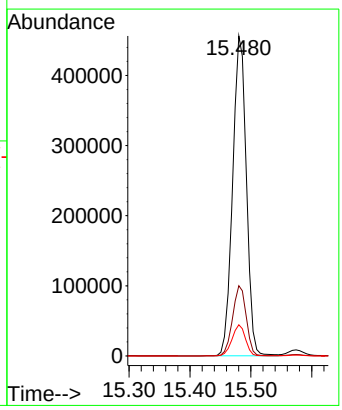


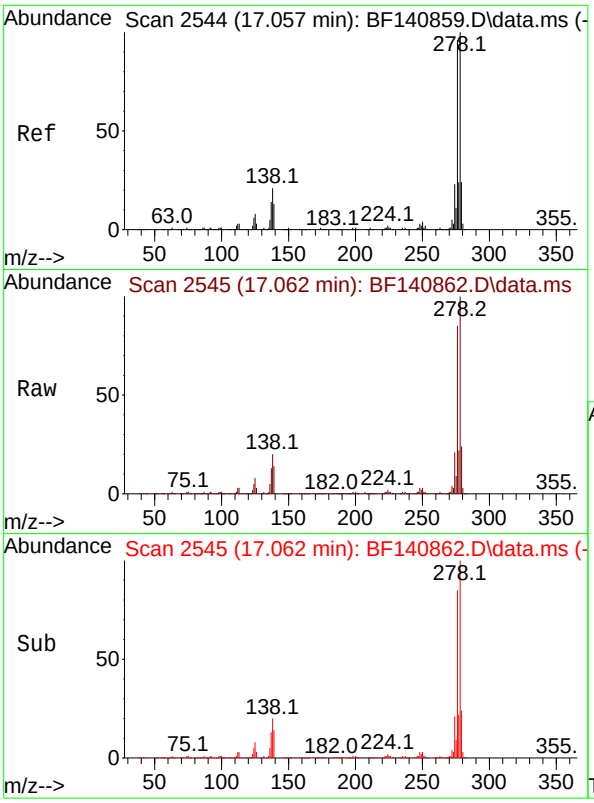


#90
Benzo(a)pyrene
Concen: 76.662 ng
RT: 15.480 min Scan# 2276
Delta R.T. -0.000 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:252 Resp: 714906

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.8	7.5	11.3



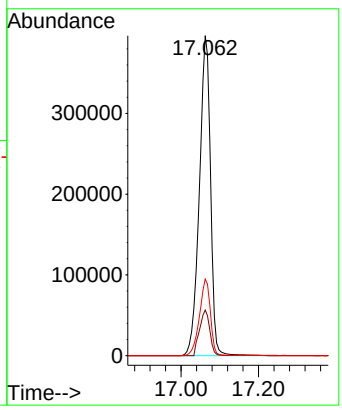


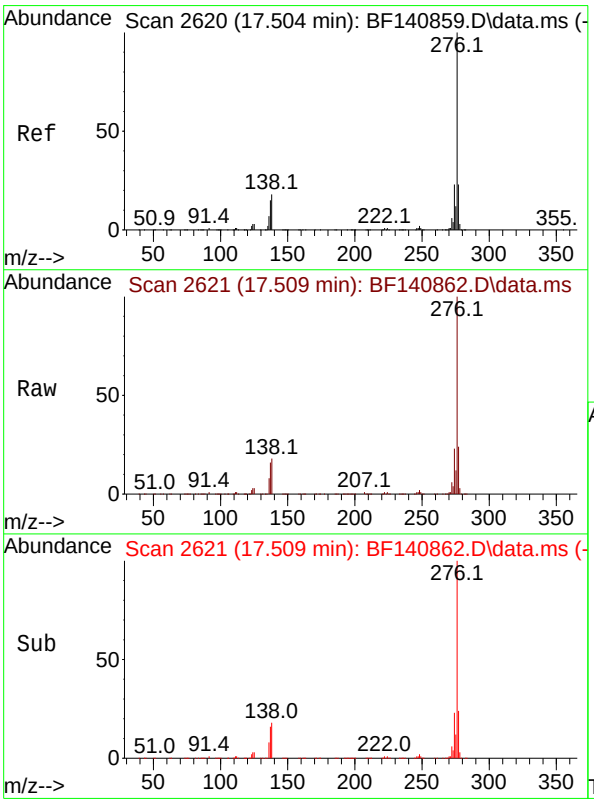
#91
Dibenzo(a,h)anthracene
Concen: 89.311 ng
RT: 17.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 792175

Ion	Ratio	Lower	Upper
278	100		
139	14.3	10.6	16.0
279	24.0	19.2	28.8

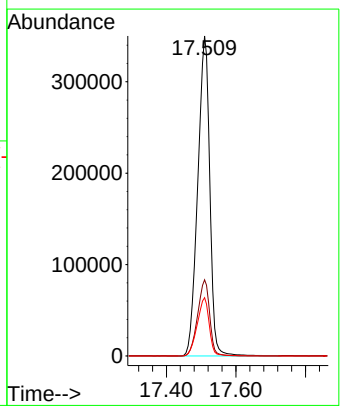




#92
Benzo(g,h,i)perylene
Concen: 93.101 ng
RT: 17.509 min Scan# 2621
Delta R.T. 0.006 min
Lab File: BF140862.D
Acq: 16 Dec 2024 16:15

Tgt Ion:276 Resp: 840468

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.7	28.1
138	18.2	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	74814	20.000	ng		0.00
21) Naphthalene-d8	8.134	136	271589	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	162319	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	282660	20.000	ng		0.00
76) Chrysene-d12	14.033	240	164316	20.000	ng		0.00
86) Perylene-d12	15.533	264	129329	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	330518	72.726	ng		0.00
7) Phenol-d6	6.504	99	446954	74.251	ng		0.00
23) Nitrobenzene-d5	7.422	82	418009	77.004	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	139243	72.531	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	869766	73.670	ng		0.00
79) Terphenyl-d14	12.963	244	915592	87.865	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.616	88	75034	38.331	ng		95
3) Pyridine	3.399	79	176528	38.939	ng		96
4) n-Nitrosodimethylamine	3.357	42	81320	35.583	ng		89
6) Aniline	6.522	93	192218	37.347	ng		98
8) 2-Chlorophenol	6.645	128	193264	38.996	ng		98
9) Benzaldehyde	6.410	77	119045	35.692	ng		97
10) Phenol	6.522	94	233567	37.438	ng		99
11) bis(2-Chloroethyl)ether	6.587	93	173020	37.188	ng		99
12) 1,3-Dichlorobenzene	6.792	146	220709	39.082	ng		97
13) 1,4-Dichlorobenzene	6.869	146	219984	38.376	ng		99
14) 1,2-Dichlorobenzene	7.022	146	208631	38.575	ng		98
15) Benzyl Alcohol	7.004	79	161378	37.495	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.122	45	197110	35.963	ng		85
17) 2-Methylphenol	7.122	107	150732	38.095	ng		99
18) Hexachloroethane	7.357	117	77896	36.502	ng		97
19) n-Nitroso-di-n-propyla...	7.269	70	128495	35.587	ng		97
20) 3+4-Methylphenols	7.275	107	202109	38.521	ng	#	85
22) Acetophenone	7.263	105	263844	38.835	ng		95
24) Nitrobenzene	7.439	77	207460	37.305	ng		95
25) Isophorone	7.675	82	346209	38.063	ng		99
26) 2-Nitrophenol	7.751	139	107352	41.913	ng		94
27) 2,4-Dimethylphenol	7.792	122	120407	40.254	ng		97
28) bis(2-Chloroethoxy)met...	7.881	93	220781	38.864	ng		98
29) 2,4-Dichlorophenol	8.004	162	162546	39.361	ng		98
30) 1,2,4-Trichlorobenzene	8.075	180	187702	39.649	ng		98
31) Naphthalene	8.151	128	585851	39.270	ng		100
32) Benzoic acid	7.951	122	98174	34.606	ng		96
33) 4-Chloroaniline	8.210	127	194369	39.228	ng		97
34) Hexachlorobutadiene	8.263	225	121955	38.289	ng		100
35) Caprolactam	8.598	113	45564	37.061	ng		92
36) 4-Chloro-3-methylphenol	8.704	107	173656	37.361	ng		100
37) 2-Methylnaphthalene	8.845	142	377796	38.282	ng		99
38) 1-Methylnaphthalene	8.945	142	368550	37.761	ng		98
40) 1,2,4,5-Tetrachloroben...	9.010	216	186337	37.349	ng		99
41) Hexachlorocyclopentadiene	8.992	237	38088	34.773	ng		98
43) 2,4,6-Trichlorophenol	9.134	196	110669	36.226	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

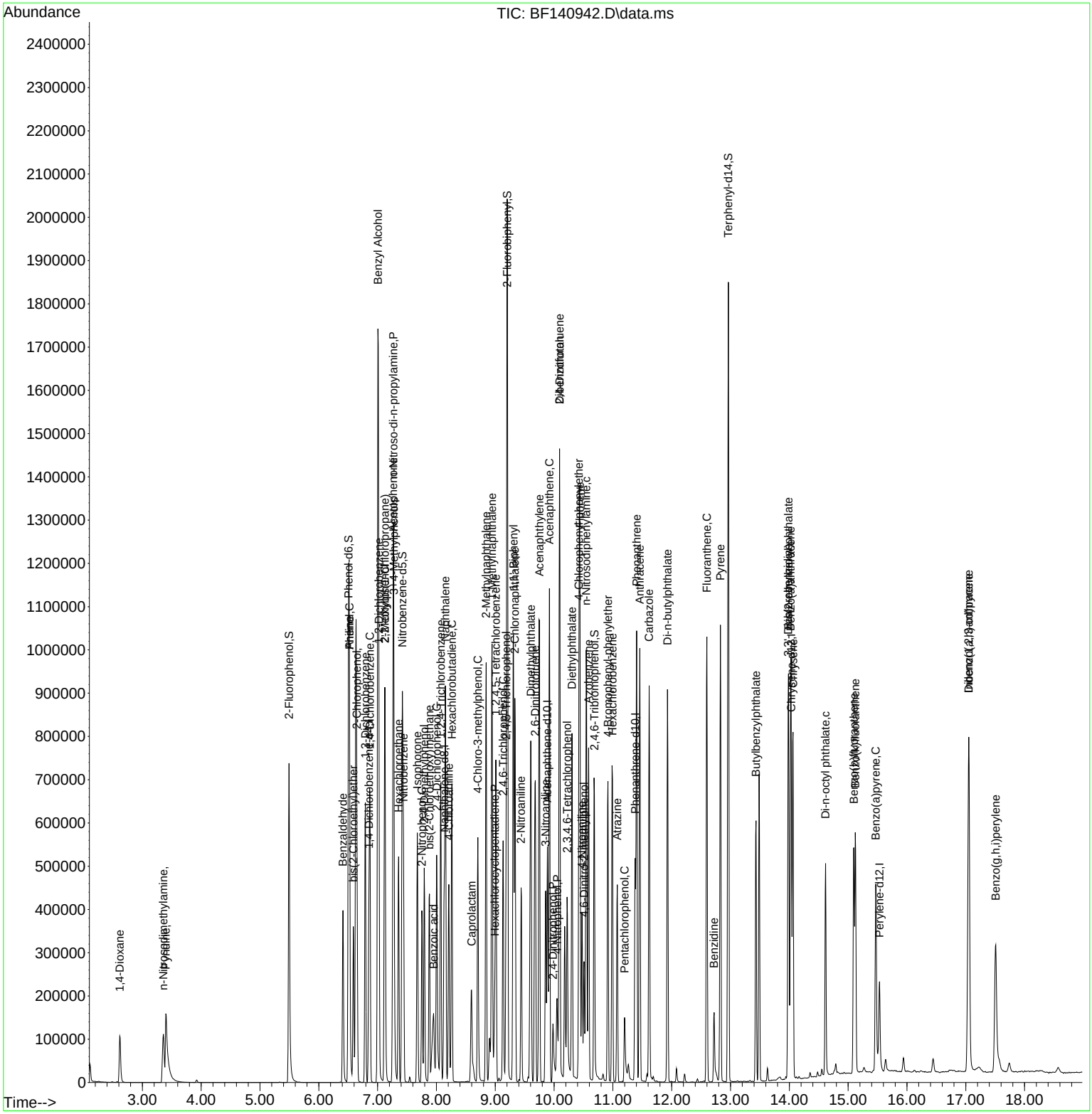
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	119664	35.638	ng	98
46) 1,1'-Biphenyl	9.310	154	483766	37.480	ng	99
47) 2-Chloronaphthalene	9.334	162	374124	37.889	ng	100
48) 2-Nitroaniline	9.439	65	105588	35.406	ng	92
49) Acenaphthylene	9.751	152	565101	38.943	ng	100
50) Dimethylphthalate	9.604	163	425243	37.159	ng	99
51) 2,6-Dinitrotoluene	9.681	165	103210	39.451	ng	92
52) Acenaphthene	9.922	154	359395	38.772	ng	100
53) 3-Nitroaniline	9.857	138	102644	39.535	ng	93
54) 2,4-Dinitrophenol	9.981	184	41330	36.272	ng	92
55) Dibenzofuran	10.092	168	545976	38.012	ng	99
56) 4-Nitrophenol	10.051	139	46328	35.773	ng	93
57) 2,4-Dinitrotoluene	10.092	165	132579	38.516	ng	94
58) Fluorene	10.439	166	440079	37.139	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	101821	37.214	ng	91
60) Diethylphthalate	10.304	149	426443	35.936	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	221428	37.200	ng	98
62) 4-Nitroaniline	10.475	138	91794	33.834	ng	92
63) Azobenzene	10.586	77	384375	34.454	ng	95
65) 4,6-Dinitro-2-methylph...	10.510	198	64499	40.269	ng	95
66) n-Nitrosodiphenylamine	10.545	169	371501	42.748	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	129825	41.055	ng	96
68) Hexachlorobenzene	10.992	284	149493	41.697	ng	96
69) Atrazine	11.075	200	81196	33.453	ng	97
70) Pentachlorophenol	11.198	266	43633	33.287	ng	97
71) Phenanthrene	11.404	178	554743	38.164	ng	99
72) Anthracene	11.457	178	555785	38.826	ng	99
73) Carbazole	11.616	167	539092	38.449	ng	100
74) Di-n-butylphthalate	11.927	149	665945	40.470	ng	99
75) Fluoranthene	12.598	202	612458	36.586	ng	99
77) Benzidine	12.722	184	115361	34.399	ng	99
78) Pyrene	12.827	202	625636	42.817	ng	99
80) Butylbenzylphthalate	13.433	149	207238	38.545	ng	96
81) Benzo(a)anthracene	14.021	228	445495	38.254	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	128185	36.483	ng	97
83) Chrysene	14.063	228	420365	39.695	ng	99
84) Bis(2-ethylhexyl)phtha...	13.986	149	259339	37.409	ng	100
85) Di-n-octyl phthalate	14.616	149	336272	32.062	ng	98
87) Indeno(1,2,3-cd)pyrene	17.051	276	415125	51.437	ng	99
88) Benzo(b)fluoranthene	15.098	252	341178	38.004	ng	99
89) Benzo(k)fluoranthene	15.121	252	290595	37.736	ng	99
90) Benzo(a)pyrene	15.468	252	275845	39.241	ng	99
91) Dibenzo(a,h)anthracene	17.051	278	345181	51.627	ng	98
92) Benzo(g,h,i)perylene	17.509	276	330062	48.503	ng	99

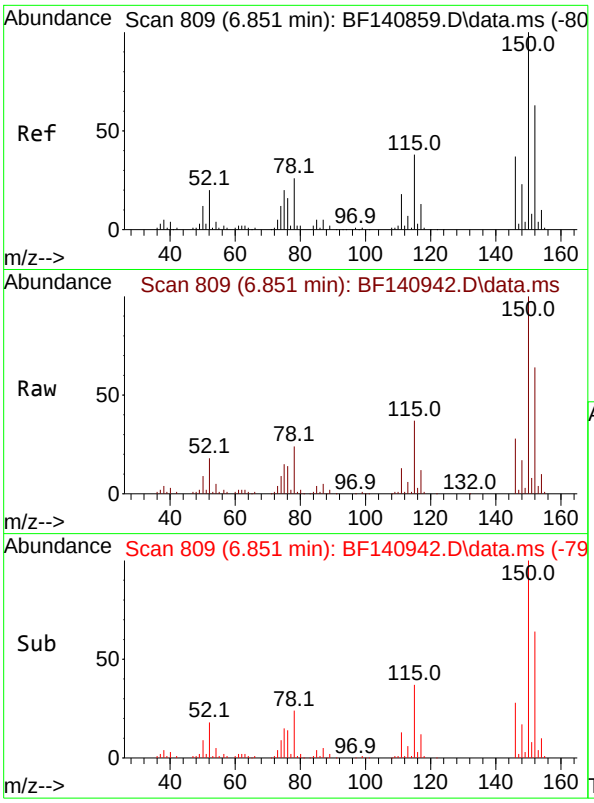
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140942.D
Acq On : 20 Dec 2024 11:15
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Dec 20 11:51:18 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



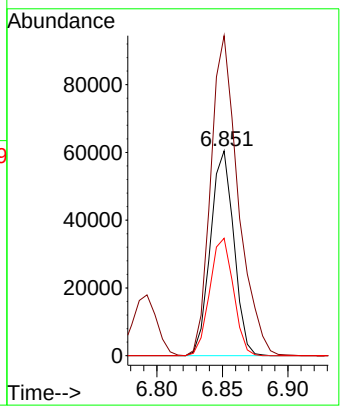


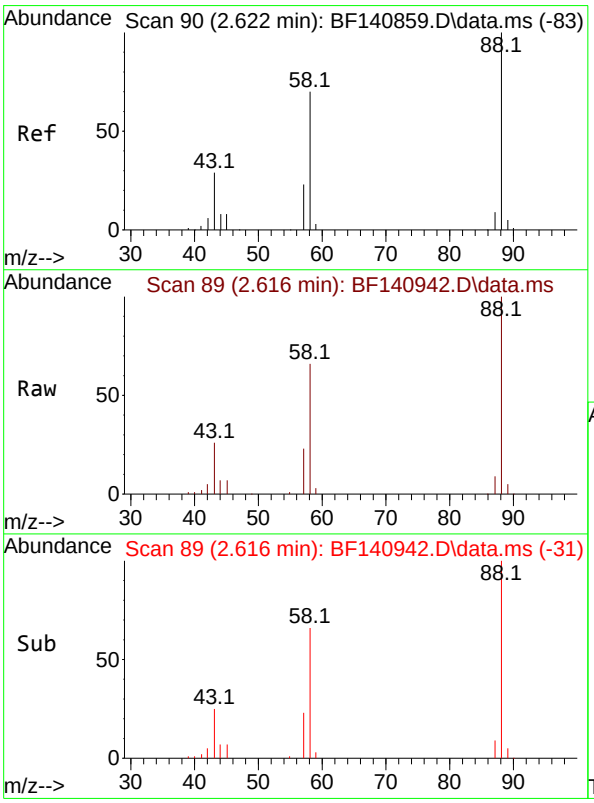
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 74814

Ion	Ratio	Lower	Upper
152	100		
150	156.2	127.9	191.9
115	57.3	48.0	72.0

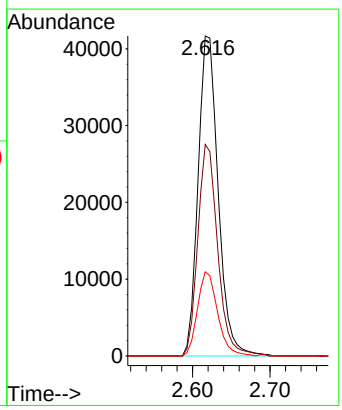


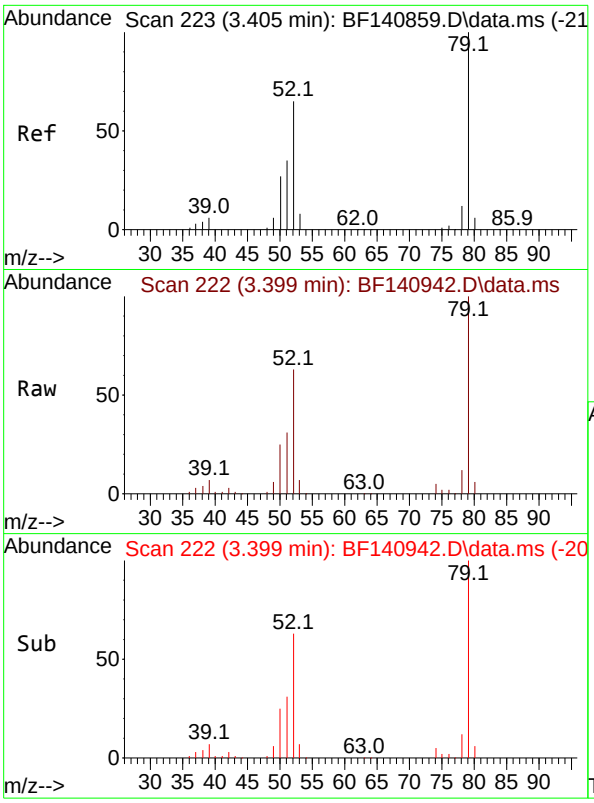


#2
1,4-Dioxane
Concen: 38.331 ng
RT: 2.616 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 88 Resp: 75034

Ion	Ratio	Lower	Upper
88	100		
58	65.4	55.8	83.8
43	26.3	22.7	34.1



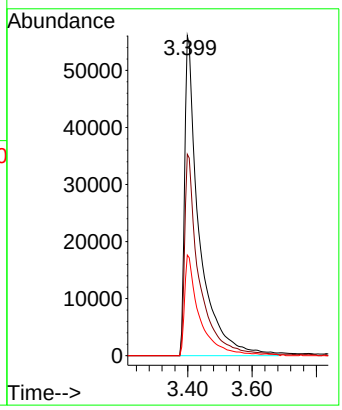


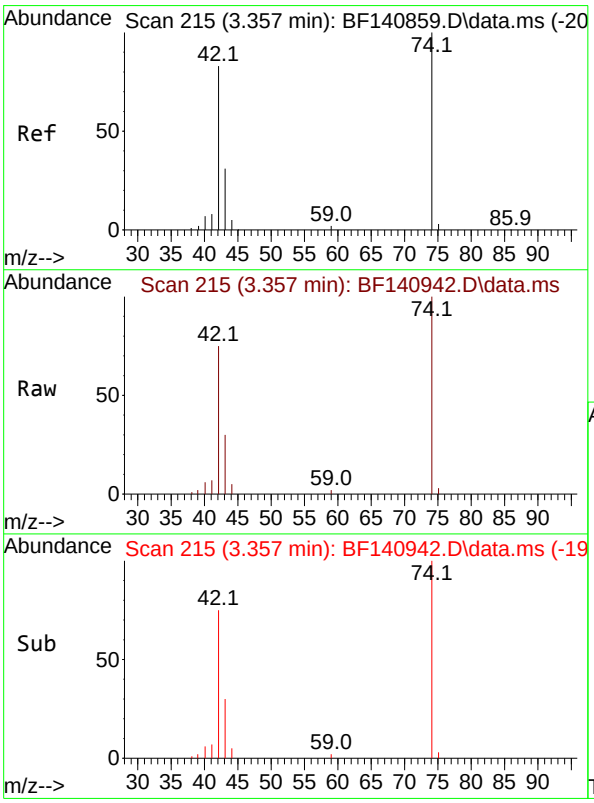
#3
Pyridine
Concen: 38.939 ng
RT: 3.399 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 176528

Ion	Ratio	Lower	Upper
79	100		
52	62.9	51.7	77.5
51	31.4	28.2	42.4

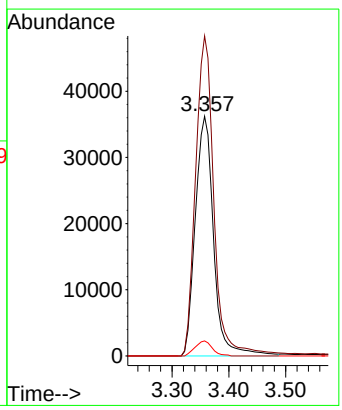


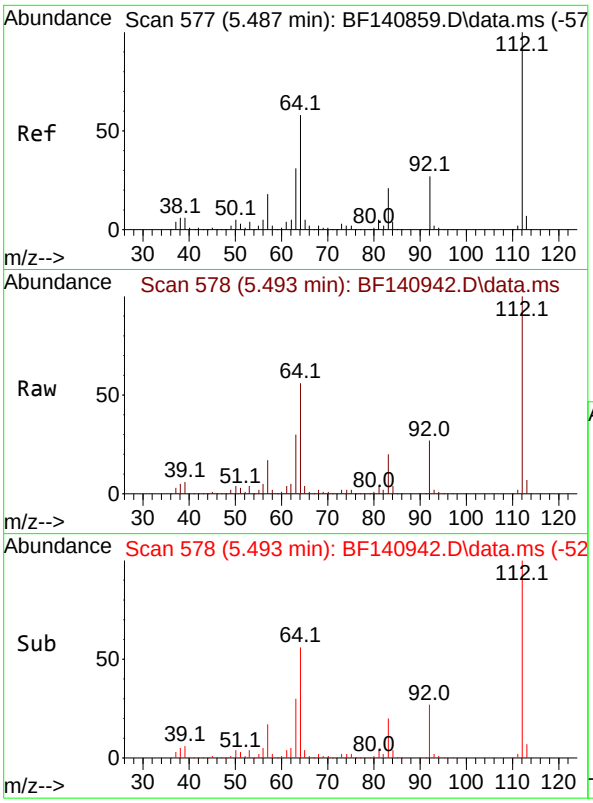


#4
n-Nitrosodimethylamine
Concen: 35.583 ng
RT: 3.357 min Scan# 215
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 42 Resp: 81320

Ion	Ratio	Lower	Upper
42	100		
74	133.5	96.9	145.3
44	6.3	4.4	6.6



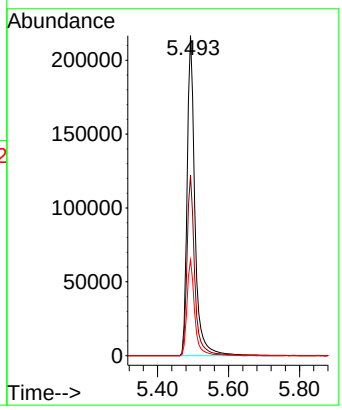


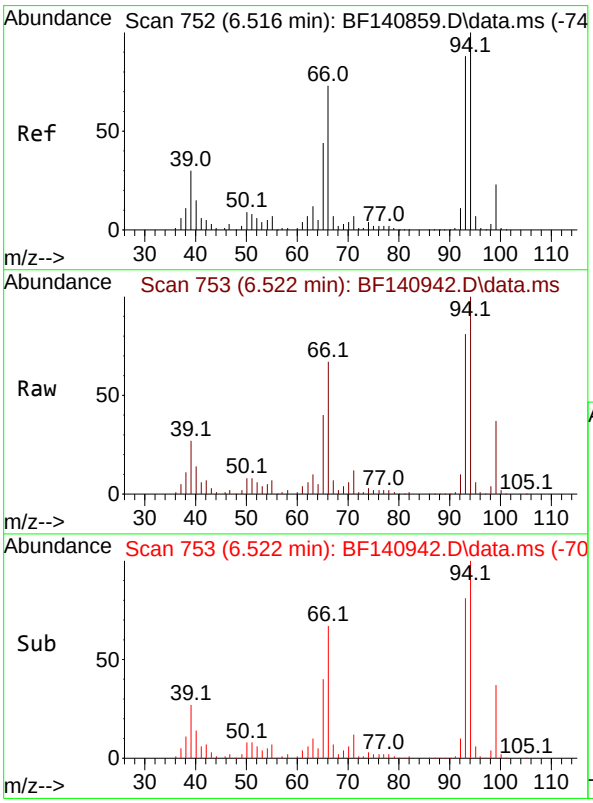
#5
2-Fluorophenol
Concen: 72.726 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 330518

Ion	Ratio	Lower	Upper
112	100		
64	56.4	46.1	69.1
63	29.9	24.9	37.3

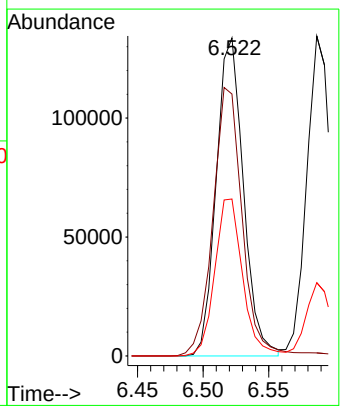


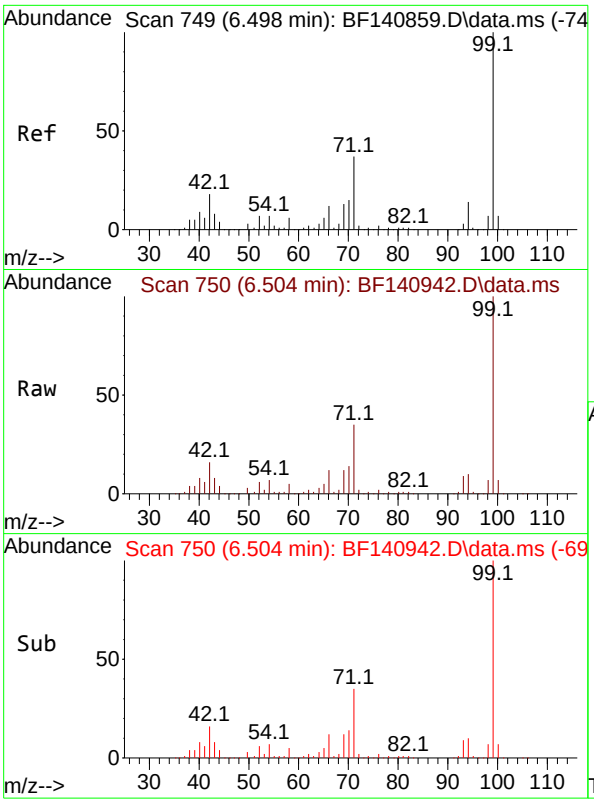


#6
Aniline
Concen: 37.347 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 93 Resp: 192218

Ion	Ratio	Lower	Upper
93	100		
66	82.4	67.0	100.4
65	49.4	40.4	60.6



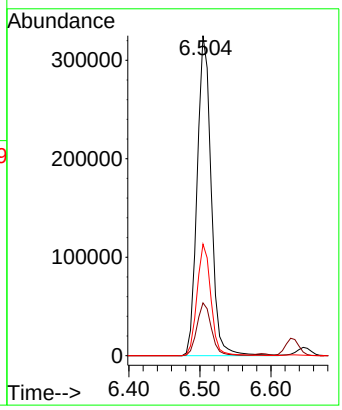


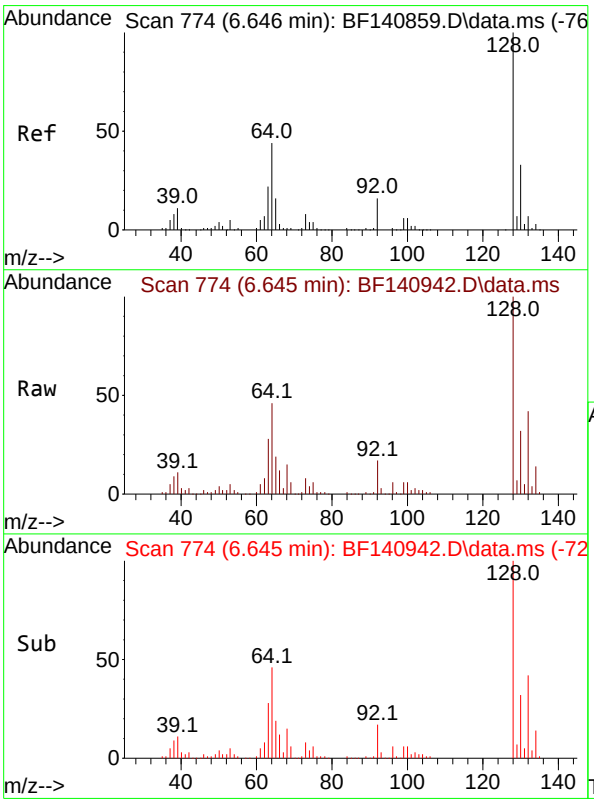
#7
Phenol-d6
Concen: 74.251 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 446954

Ion	Ratio	Lower	Upper
99	100		
42	16.5	14.3	21.5
71	34.8	29.9	44.9

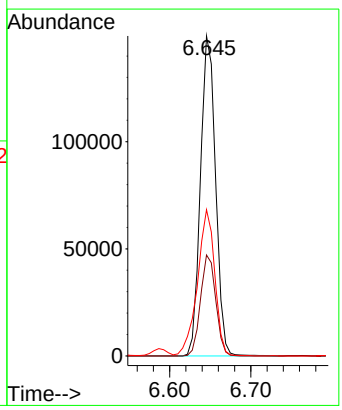


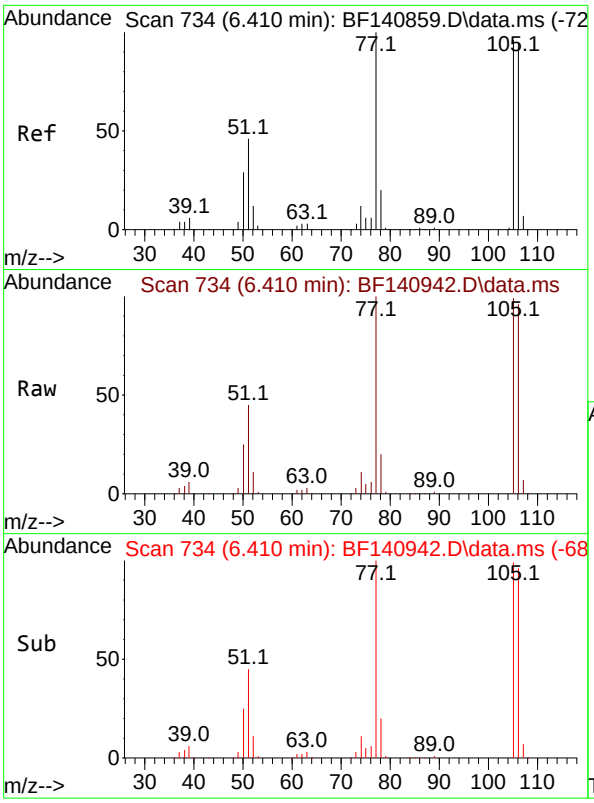


#8
2-Chlorophenol
Concen: 38.996 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:128 Resp: 193264

Ion	Ratio	Lower	Upper
128	100		
130	31.6	12.9	52.9
64	45.7	24.3	64.3



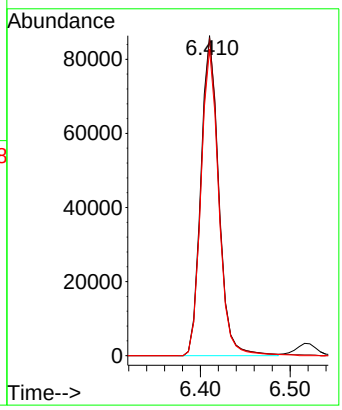


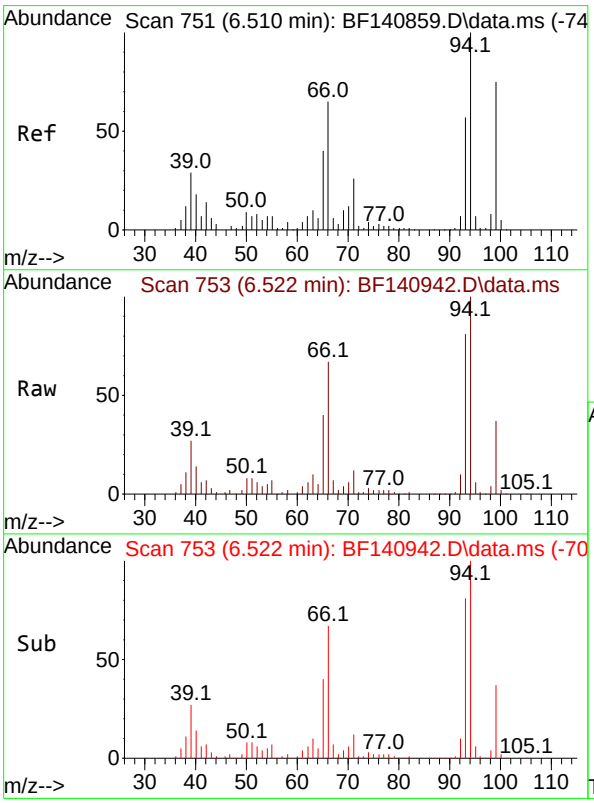
#9
Benzaldehyde
Concen: 35.692 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 119045

Ion	Ratio	Lower	Upper
77	100		
105	99.3	75.8	115.8
106	95.7	74.1	114.1

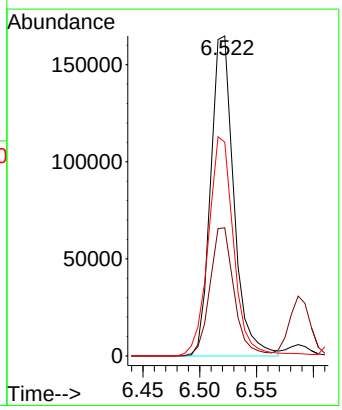


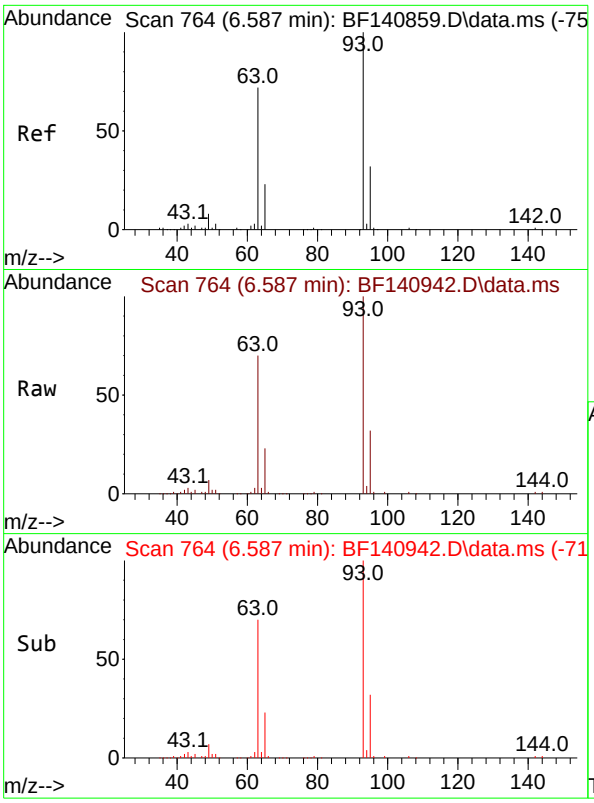


#10
Phenol
Concen: 37.438 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 94 Resp: 233567

Ion	Ratio	Lower	Upper
94	100		
65	40.0	19.9	59.9
66	66.8	45.6	85.6



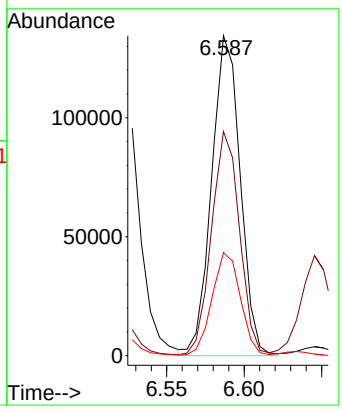


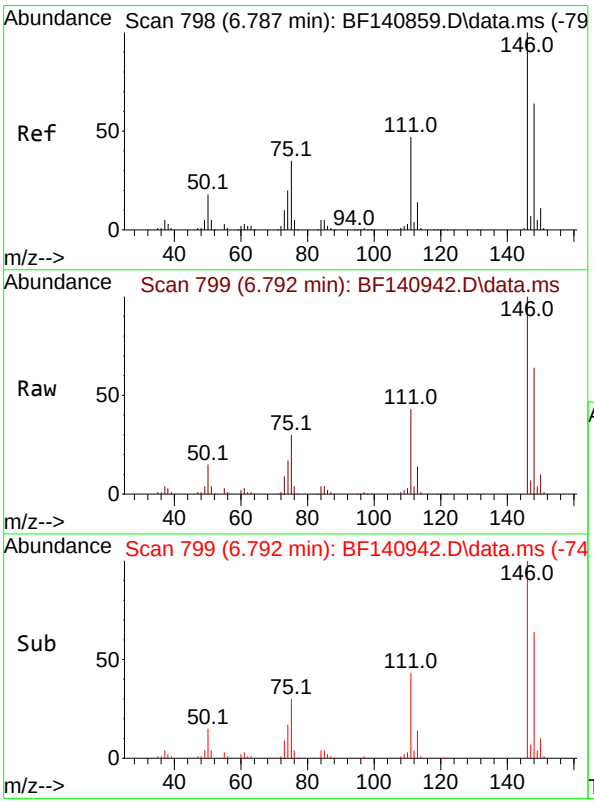
#11
bis(2-Chloroethyl)ether
Concen: 37.188 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 173020

Ion	Ratio	Lower	Upper
93	100		
63	70.0	51.0	91.0
95	32.2	12.0	52.0

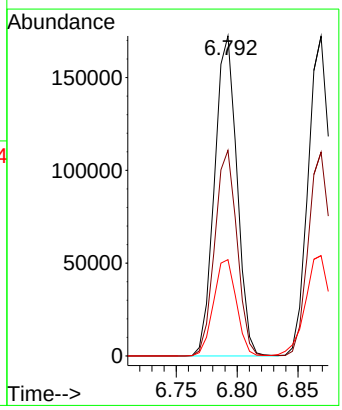


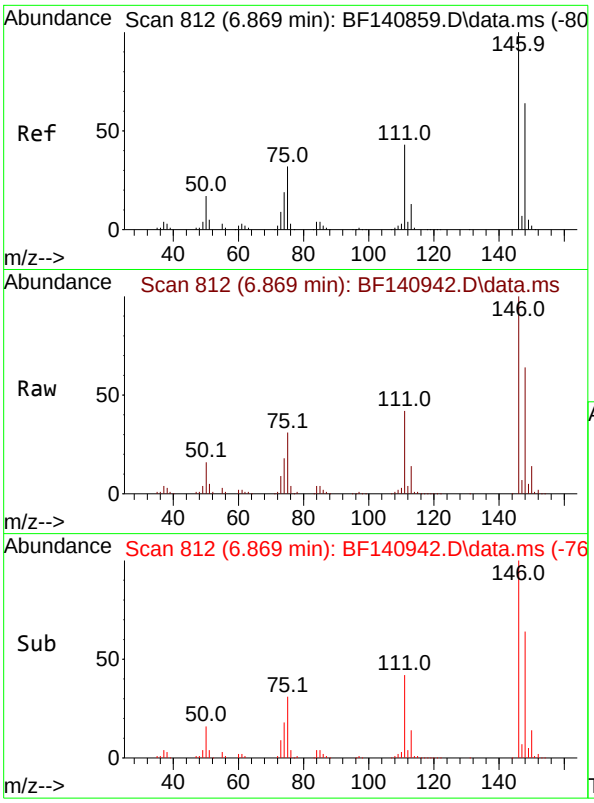


#12
1,3-Dichlorobenzene
Concen: 39.082 ng
RT: 6.792 min Scan# 799
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:146 Resp: 220709

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
75	30.1	28.1	42.1



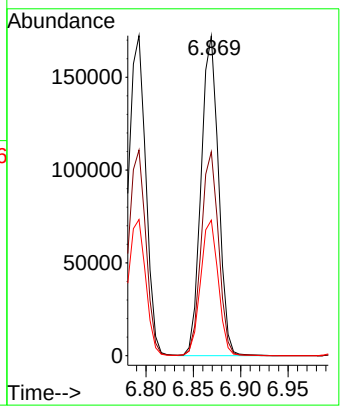


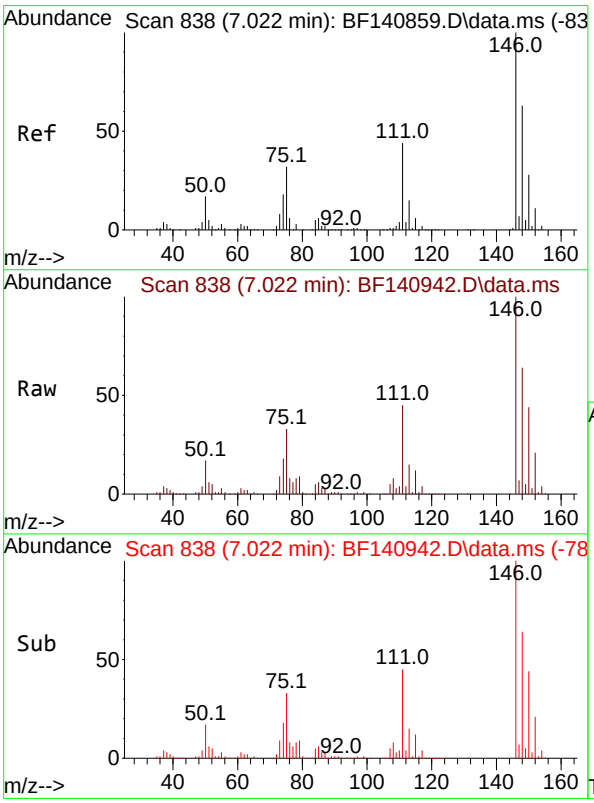
#13
1,4-Dichlorobenzene
Concen: 38.376 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 219984

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.3	76.9
111	42.4	34.4	51.6

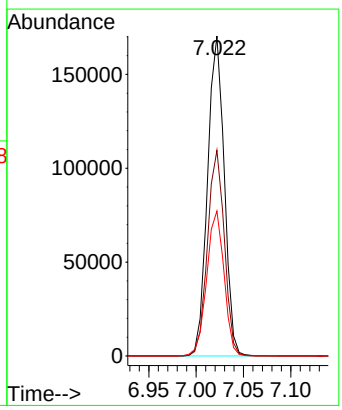


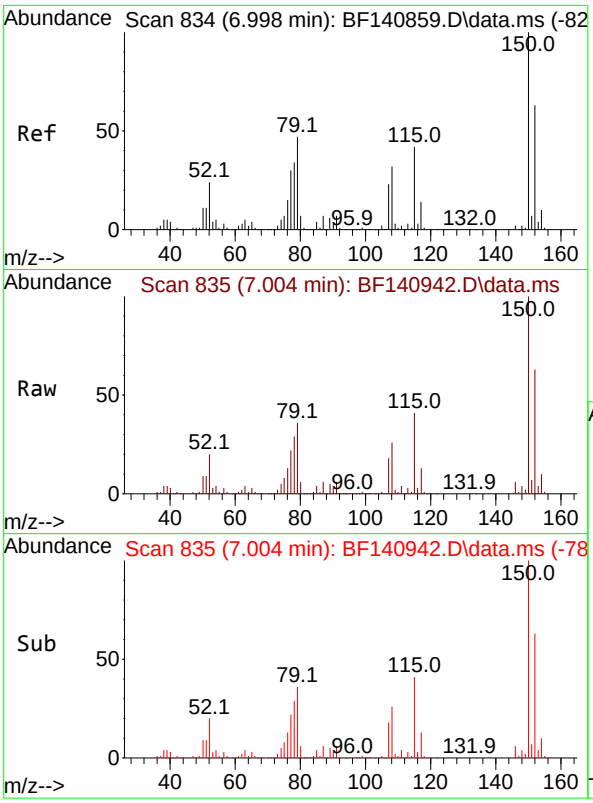


#14
1,2-Dichlorobenzene
Concen: 38.575 ng
RT: 7.022 min Scan# 838
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:146 Resp: 208631

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.0	75.0
111	45.3	35.6	53.4



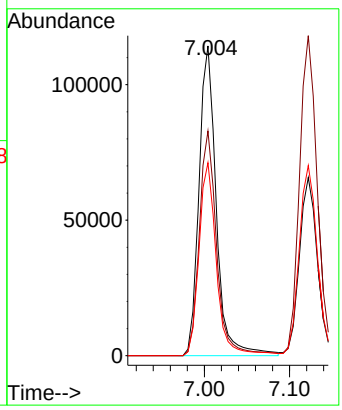


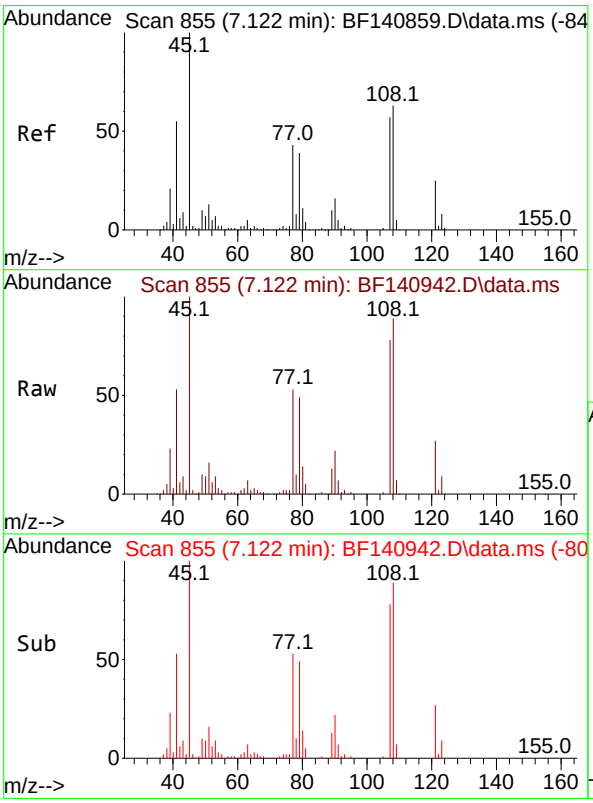
#15
Benzyl Alcohol
Concen: 37.495 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 161378

Ion	Ratio	Lower	Upper
79	100		
108	72.5	55.1	82.7
77	62.3	50.6	76.0

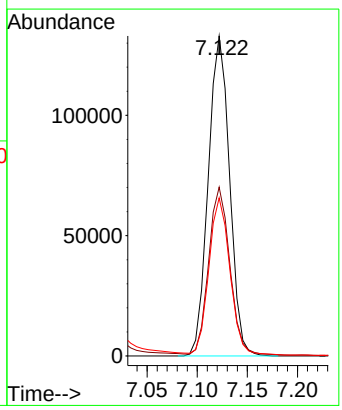


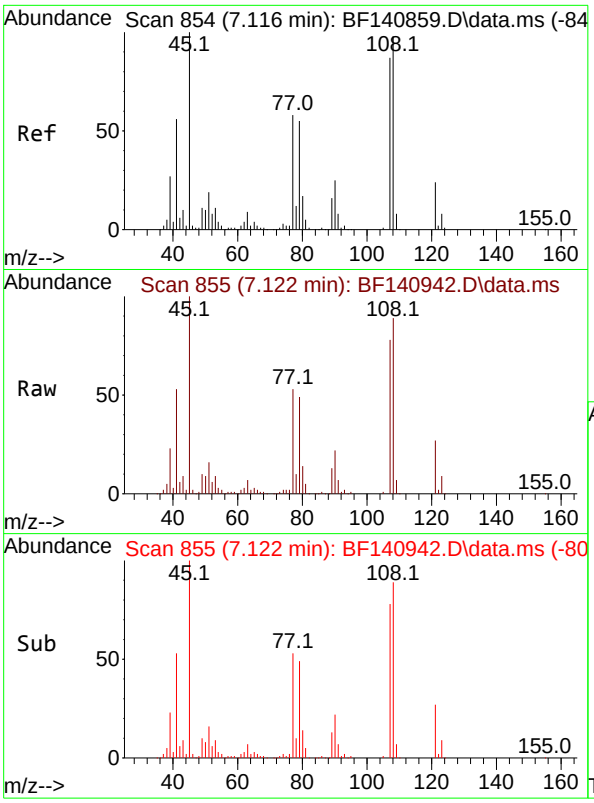


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.963 ng
RT: 7.122 min Scan# 855
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 45 Resp: 197110

Ion	Ratio	Lower	Upper
45	100		
77	52.7	23.3	63.3
79	49.4	20.0	60.0



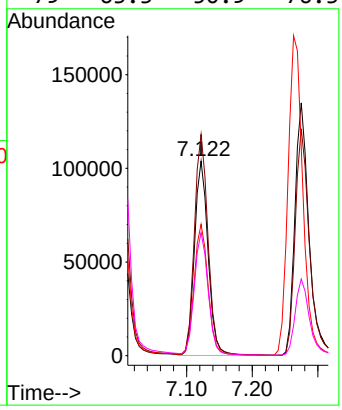


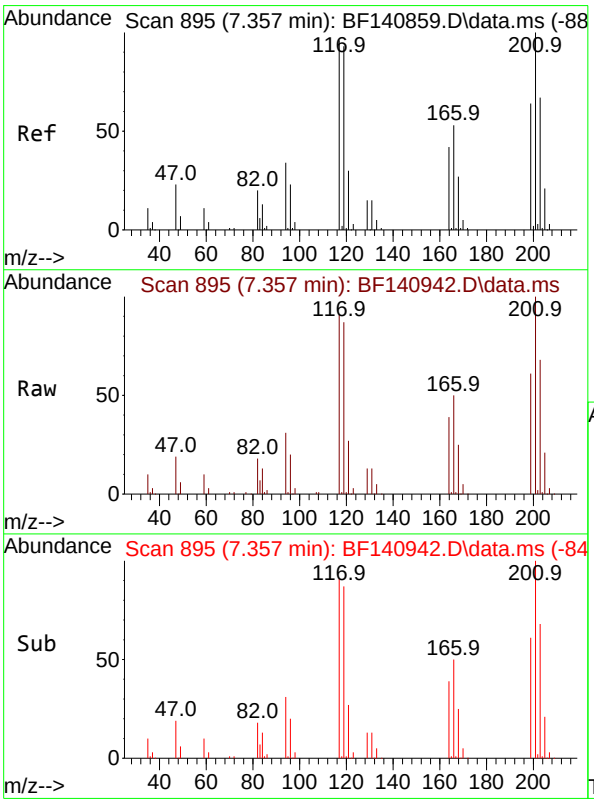
#17
2-Methylphenol
Concen: 38.095 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 150732

Ion	Ratio	Lower	Upper
107	100		
108	113.7	90.2	135.4
77	67.6	53.8	80.6
79	63.3	50.9	76.3

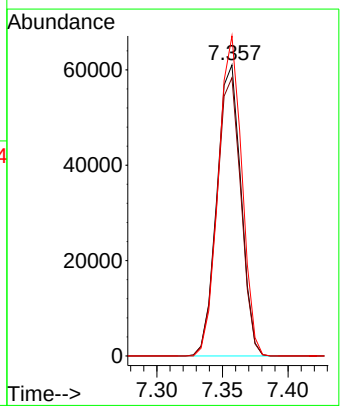


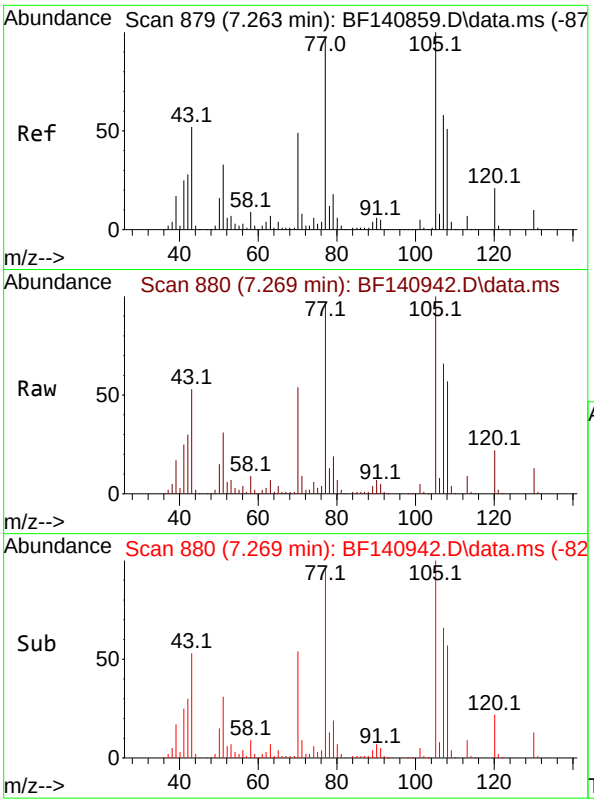


#18
Hexachloroethane
Concen: 36.502 ng
RT: 7.357 min Scan# 895
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:117 Resp: 77896

Ion	Ratio	Lower	Upper
117	100		
119	95.6	77.4	116.0
201	109.9	83.4	125.0



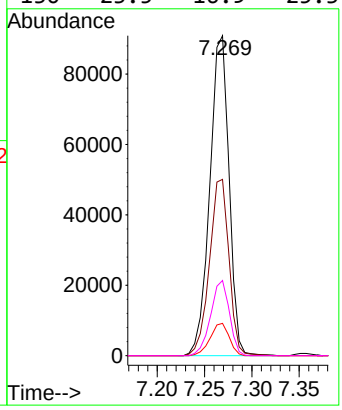


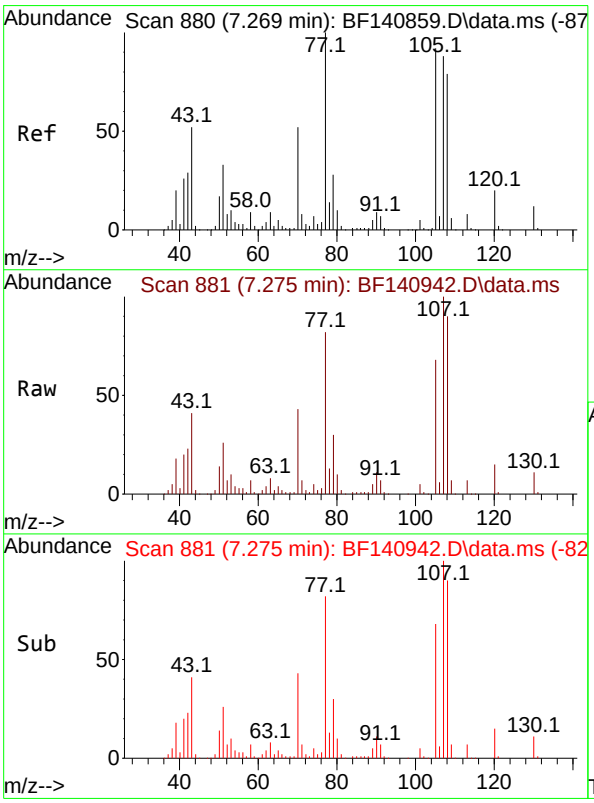
#19
n-Nitroso-di-n-propylamine
Concen: 35.587 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 128495

Ion	Ratio	Lower	Upper
70	100		
42	55.1	45.3	67.9
101	10.1	8.0	12.0
130	23.5	16.9	25.3

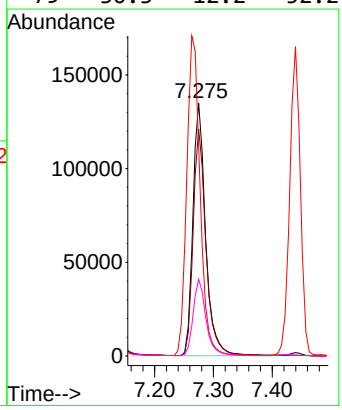


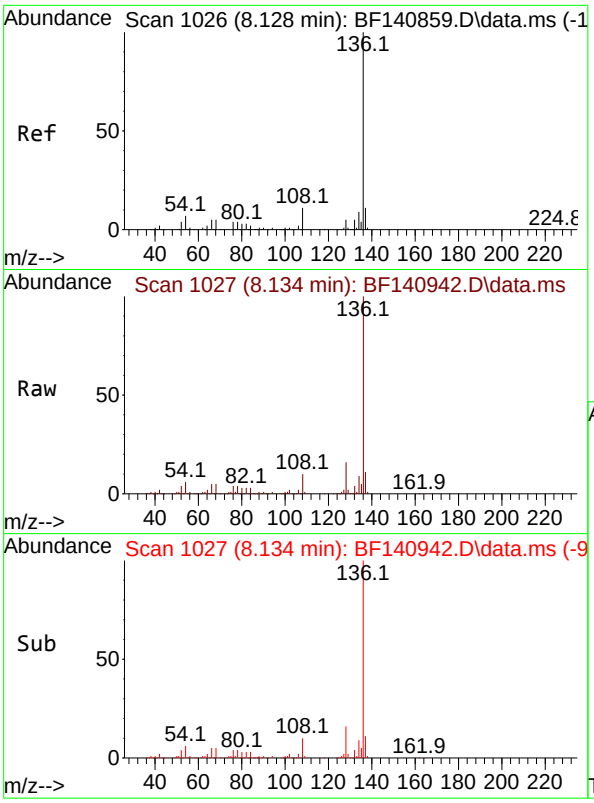


#20
3+4-Methylphenols
Concen: 38.521 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:107 Resp: 202109

Ion	Ratio	Lower	Upper
107	100		
108	89.8	70.1	110.1
77	82.4	94.4	134.4#
79	30.3	12.2	52.2



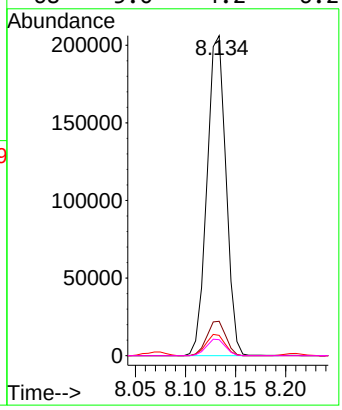


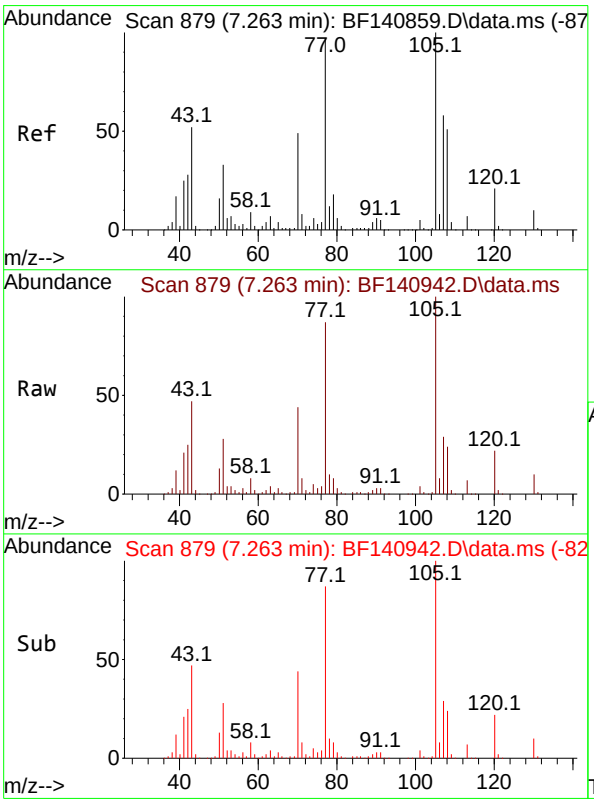
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 271589

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.3	5.6	8.4
68	5.0	4.2	6.2

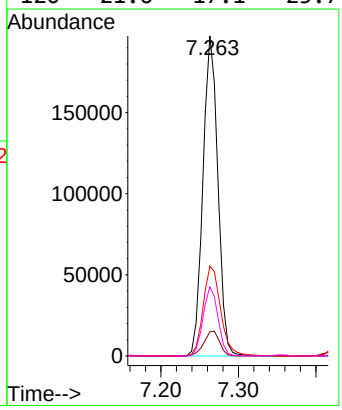


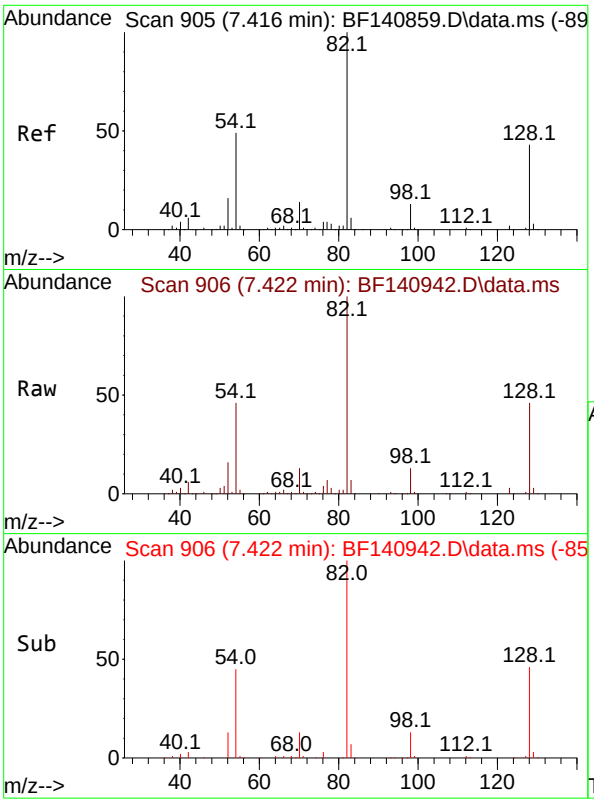


#22
Acetophenone
Concen: 38.835 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:105 Resp: 263844

Ion	Ratio	Lower	Upper
105	100		
71	7.5	6.2	9.4
51	28.1	26.3	39.5
120	21.6	17.1	25.7



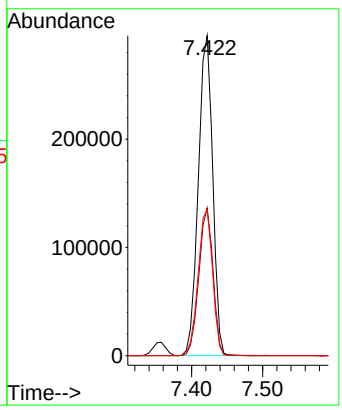


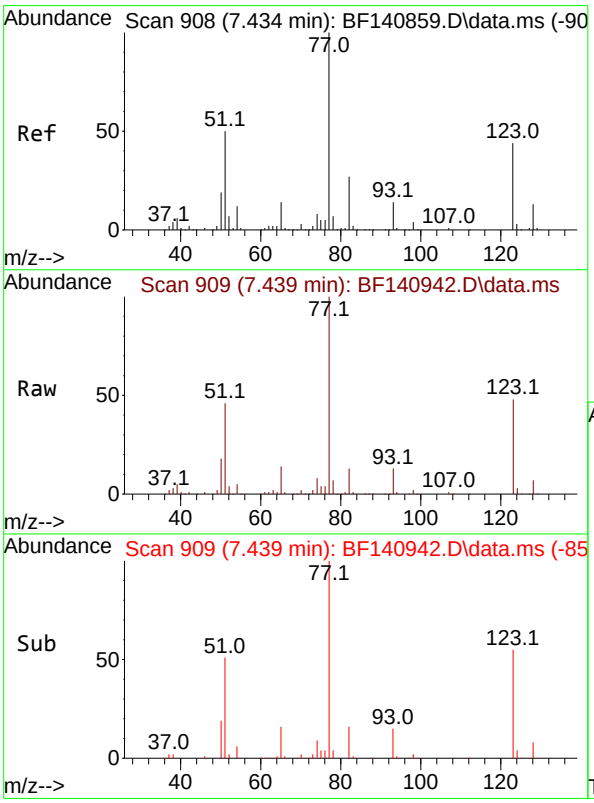
#23
Nitrobenzene-d5
Concen: 77.004 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 418009

Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.4	51.6
54	45.8	38.8	58.2

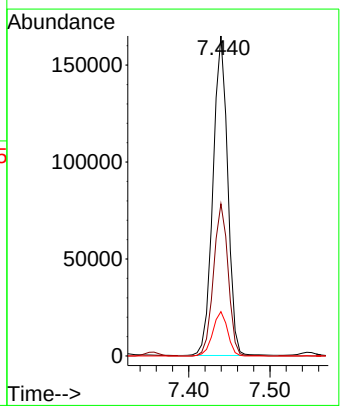


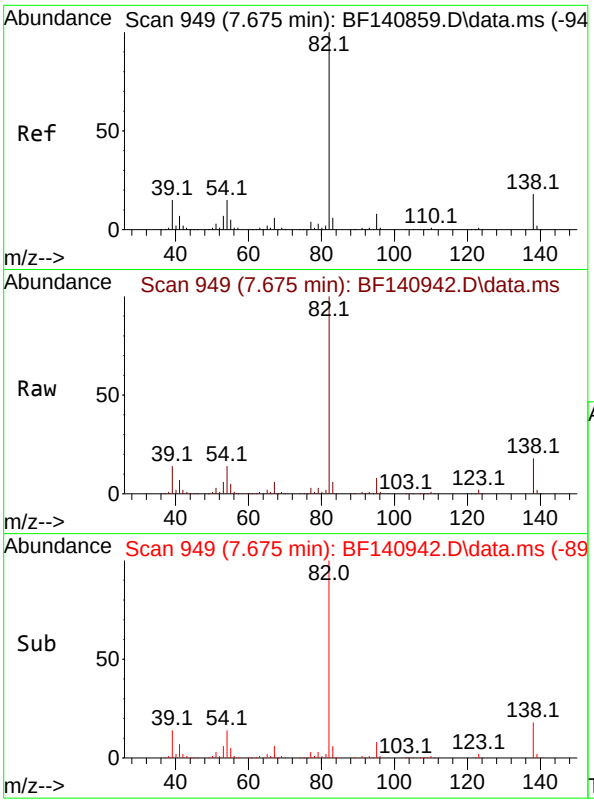


#24
Nitrobenzene
Concen: 37.305 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 77 Resp: 207460

Ion	Ratio	Lower	Upper
77	100		
123	47.6	35.0	52.4
65	13.9	11.4	17.0



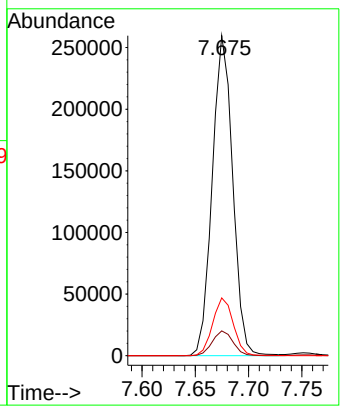


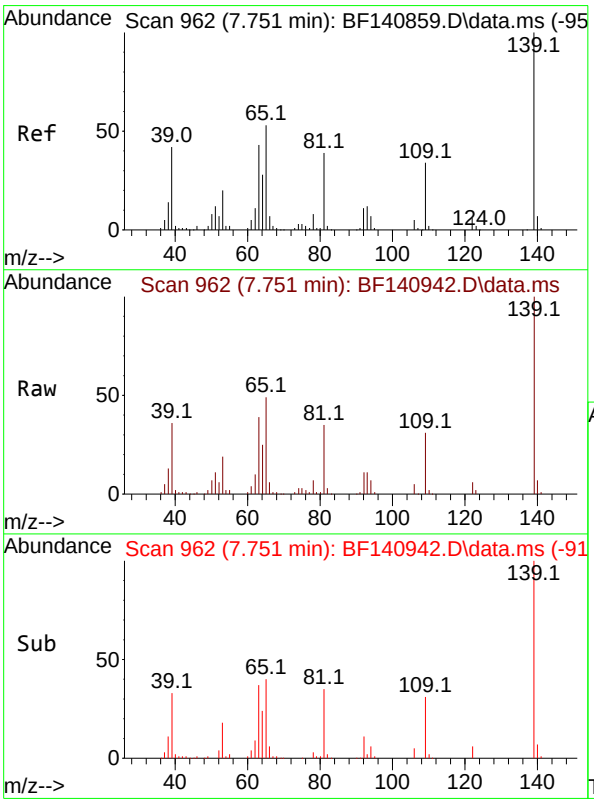
#25
Isophorone
Concen: 38.063 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 346209

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.3	9.5
138	18.1	14.1	21.1

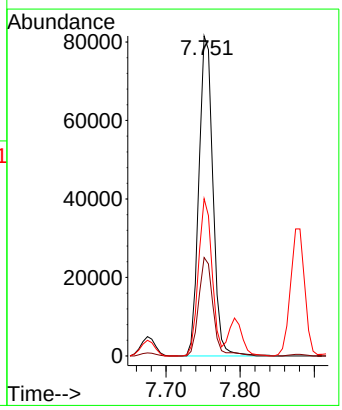


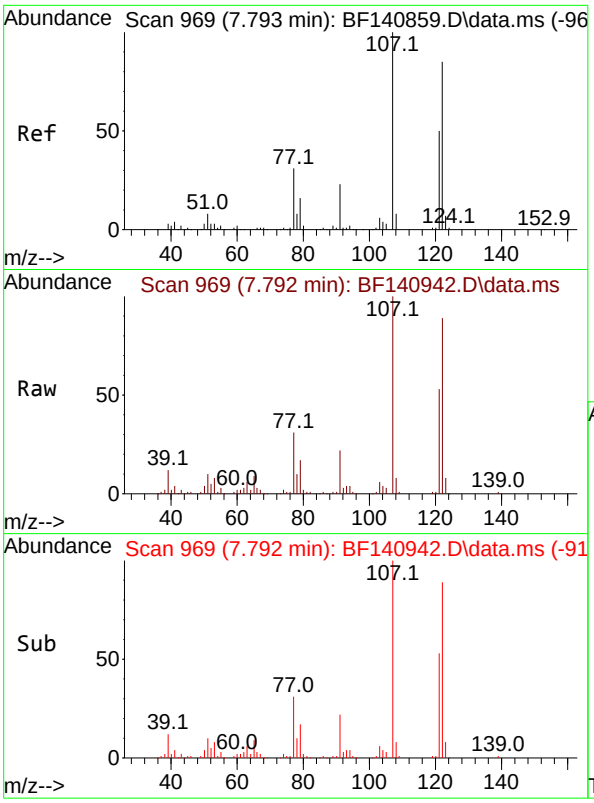


#26
2-Nitrophenol
Concen: 41.913 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:139 Resp: 107352

Ion	Ratio	Lower	Upper
139	100		
109	30.8	26.9	40.3
65	49.1	42.6	64.0



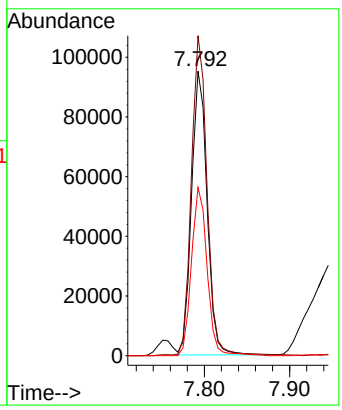


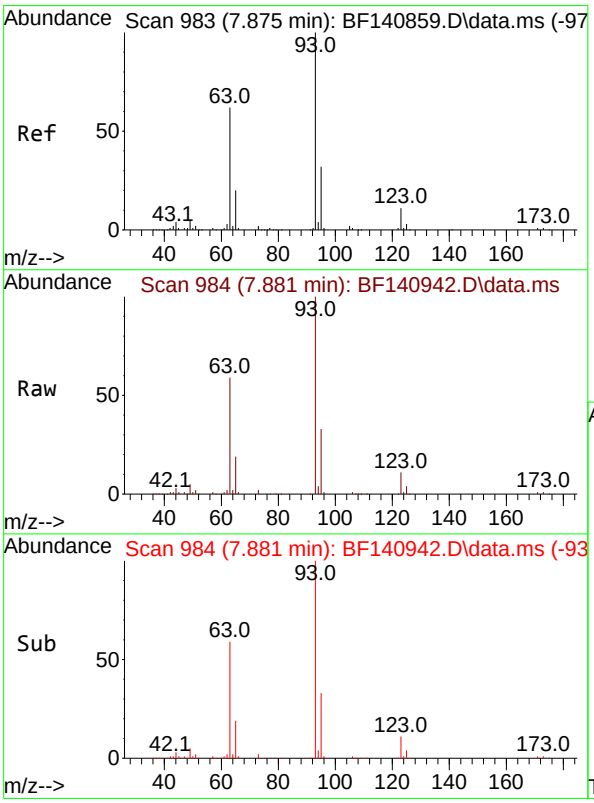
#27
2,4-Dimethylphenol
Concen: 40.254 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 120407

Ion	Ratio	Lower	Upper
122	100		
107	112.5	92.6	139.0
121	59.1	45.8	68.8

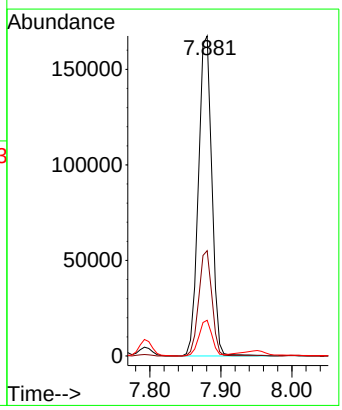


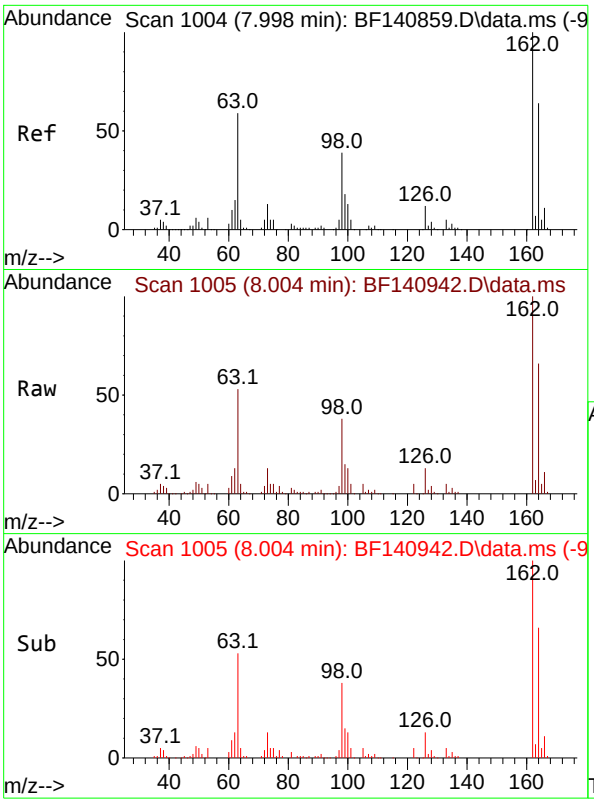


#28
bis(2-Chloroethoxy)methane
Concen: 38.864 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 93 Resp: 220781

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.3	37.9
123	11.1	8.6	13.0



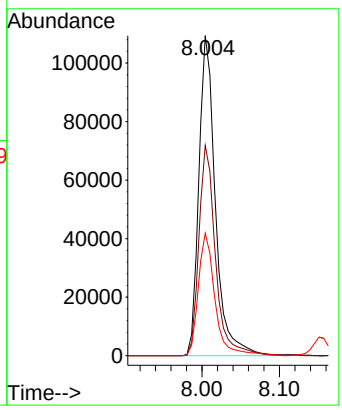


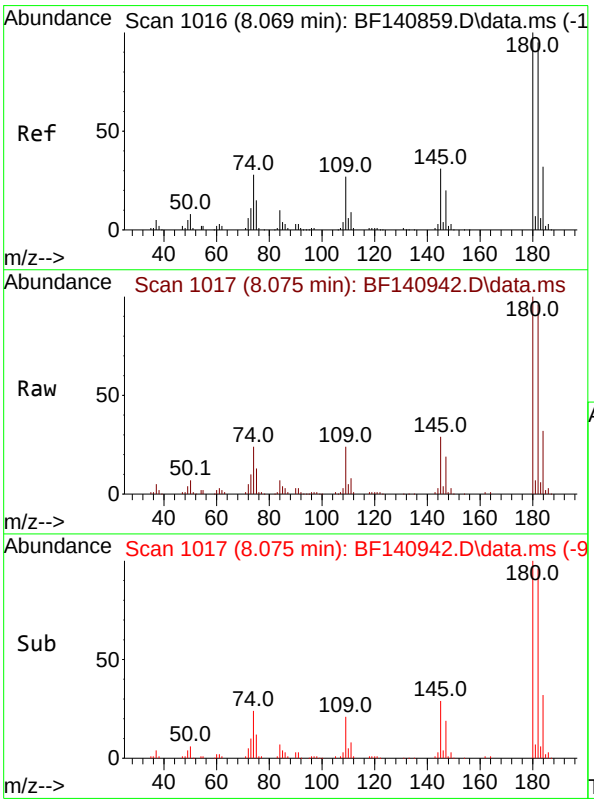
#29
2,4-Dichlorophenol
Concen: 39.361 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 162546

Ion	Ratio	Lower	Upper
162	100		
164	65.7	43.7	83.7
98	38.3	18.6	58.6

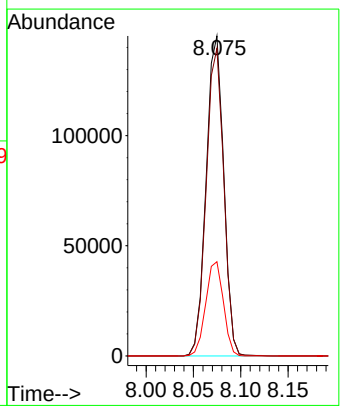


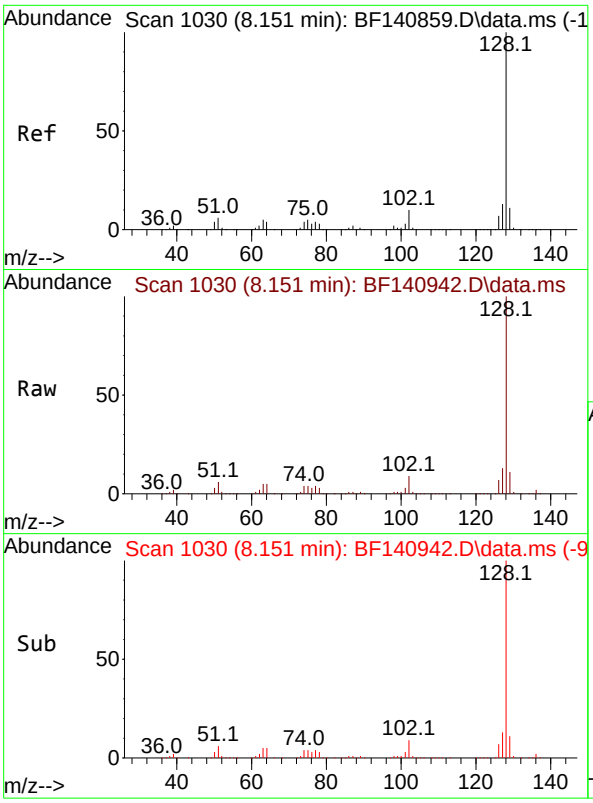


#30
1,2,4-Trichlorobenzene
Concen: 39.649 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:180 Resp: 187702

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.8	113.6
145	29.5	25.2	37.8



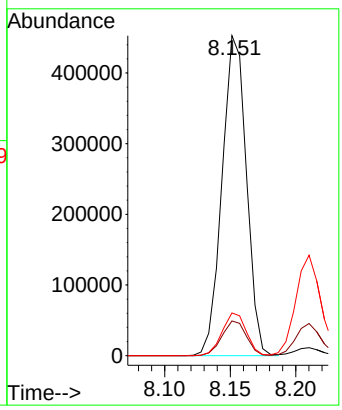


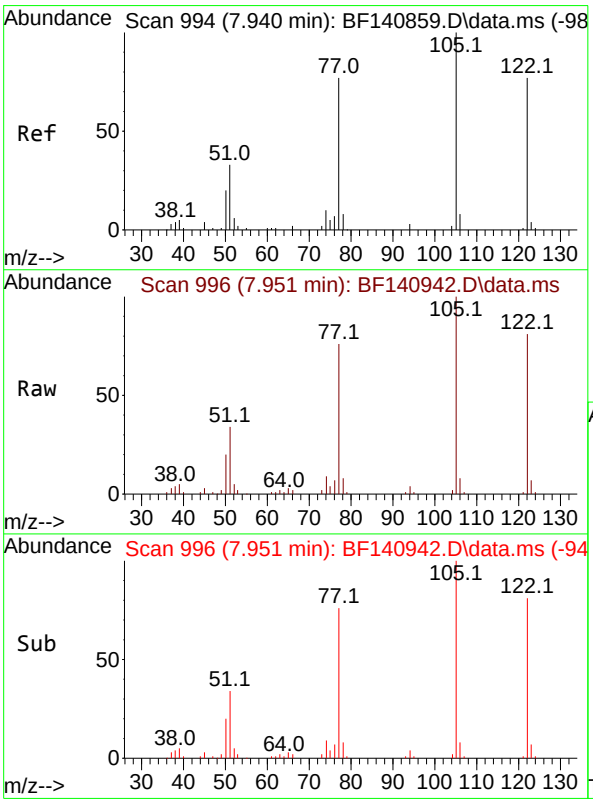
#31
Naphthalene
Concen: 39.270 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 585851

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.4	10.6	16.0

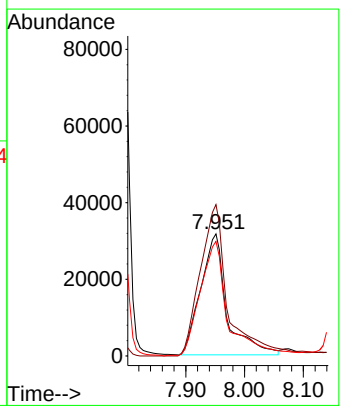


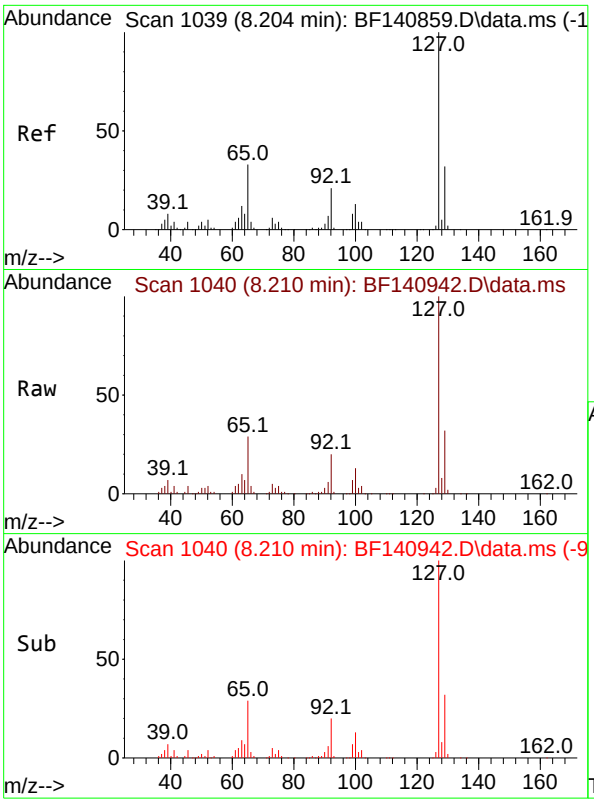


#32
Benzoic acid
Concen: 34.606 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.011 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:122 Resp: 98174

Ion	Ratio	Lower	Upper
122	100		
105	124.0	108.3	148.3
77	93.8	78.8	118.8



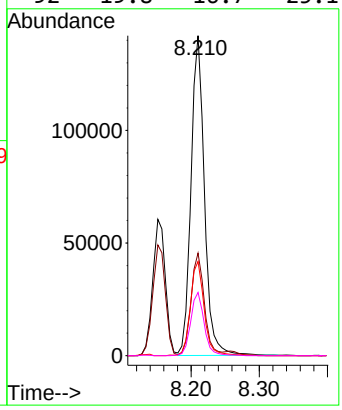


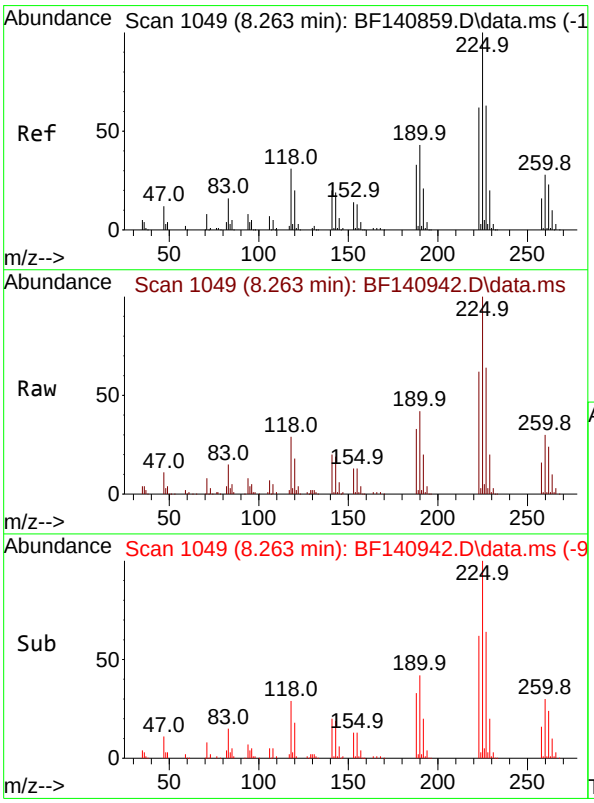
#33
4-Chloroaniline
Concen: 39.228 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 194369

Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.0	39.0
65	29.5	26.0	39.0
92	19.8	16.7	25.1

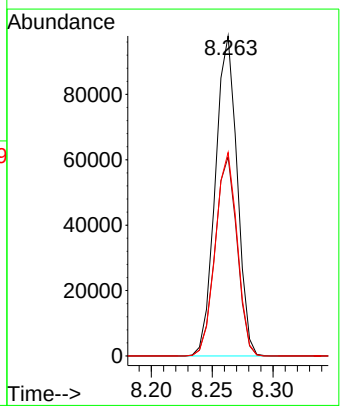


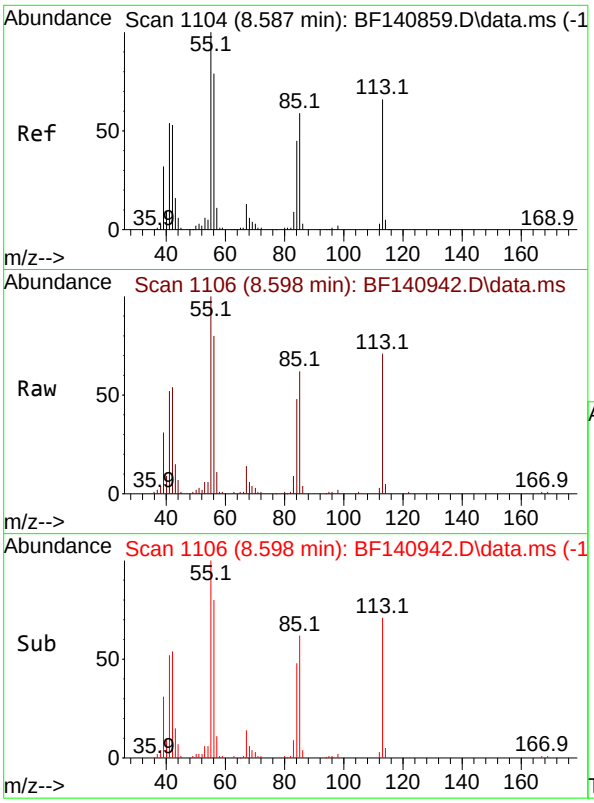


#34
Hexachlorobutadiene
Concen: 38.289 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:225 Resp: 121955

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.6	74.4
227	63.6	50.7	76.1



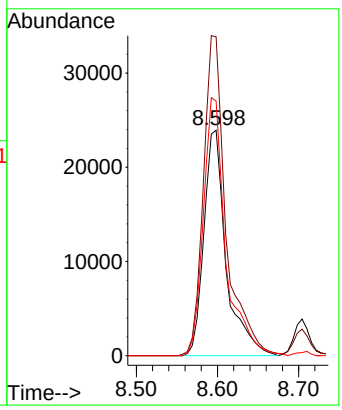


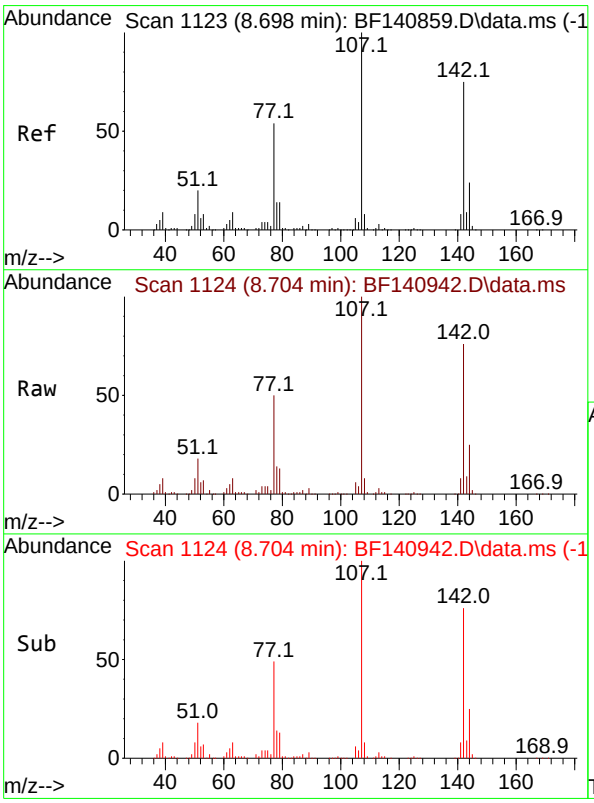
#35
Caprolactam
Concen: 37.061 ng
RT: 8.598 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 45564

Ion	Ratio	Lower	Upper
113	100		
55	141.5	132.3	172.3
56	112.9	100.3	140.3

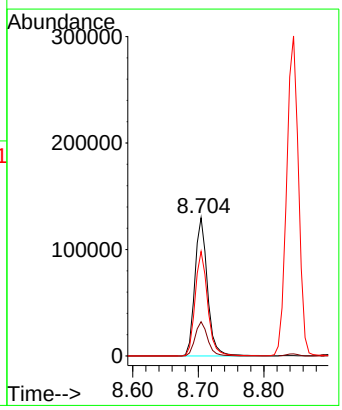


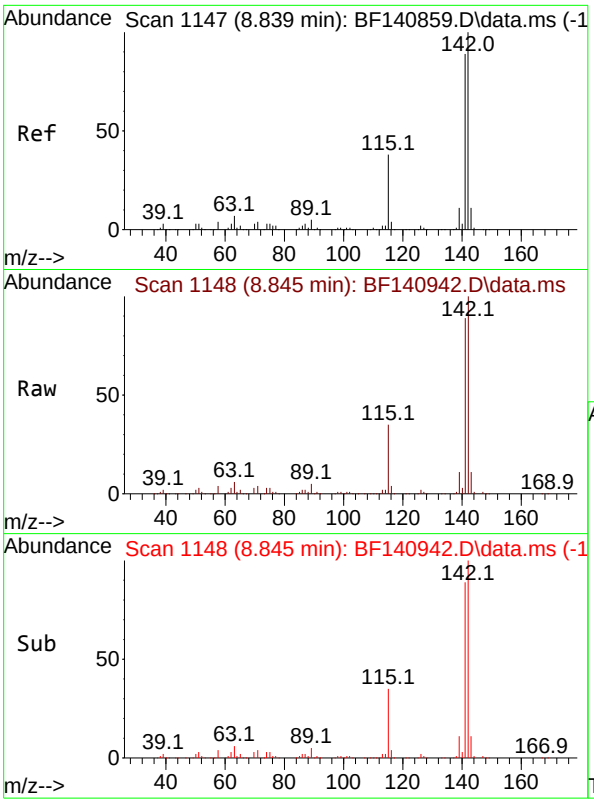


#36
4-Chloro-3-methylphenol
Concen: 37.361 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:107 Resp: 173656

Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.4	29.2
142	75.5	60.3	90.5



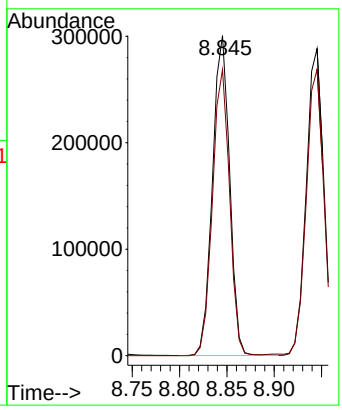


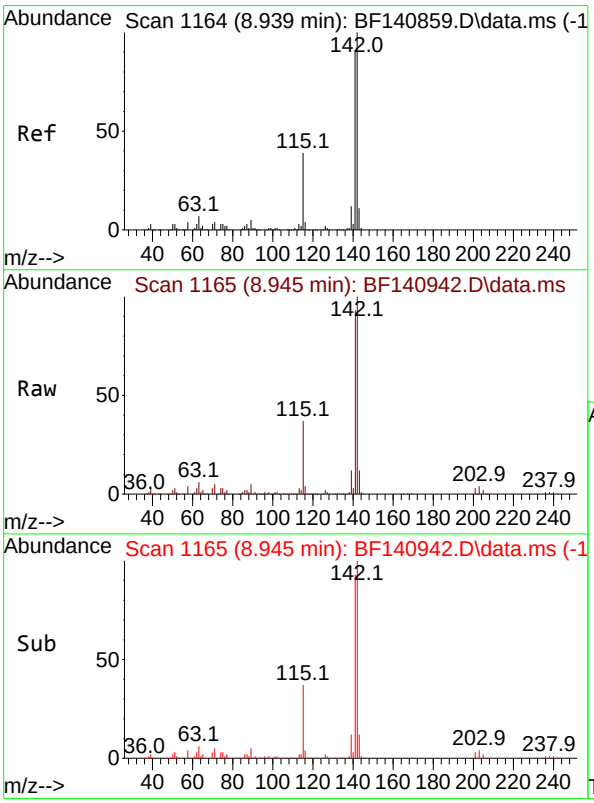
#37
2-Methylnaphthalene
Concen: 38.282 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 377796

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.0	106.6

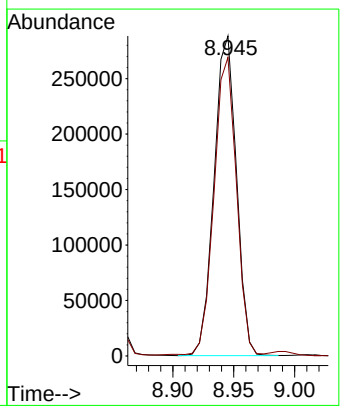


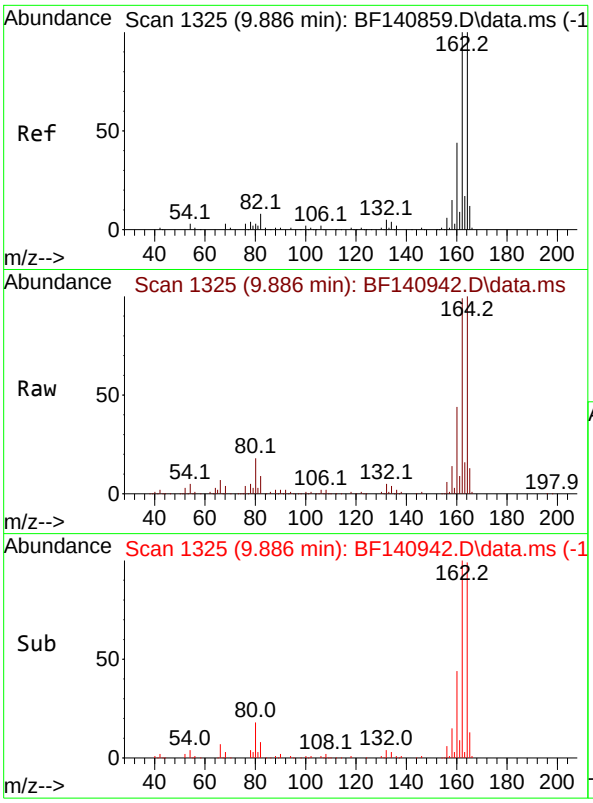


#38
1-Methylnaphthalene
Concen: 37.761 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:142 Resp: 368550

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.4	110.0



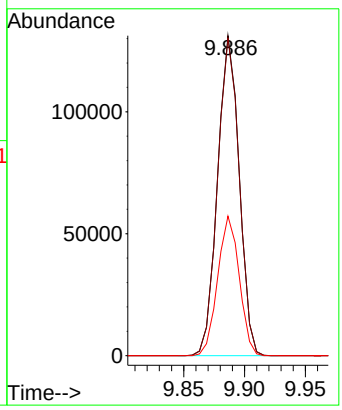


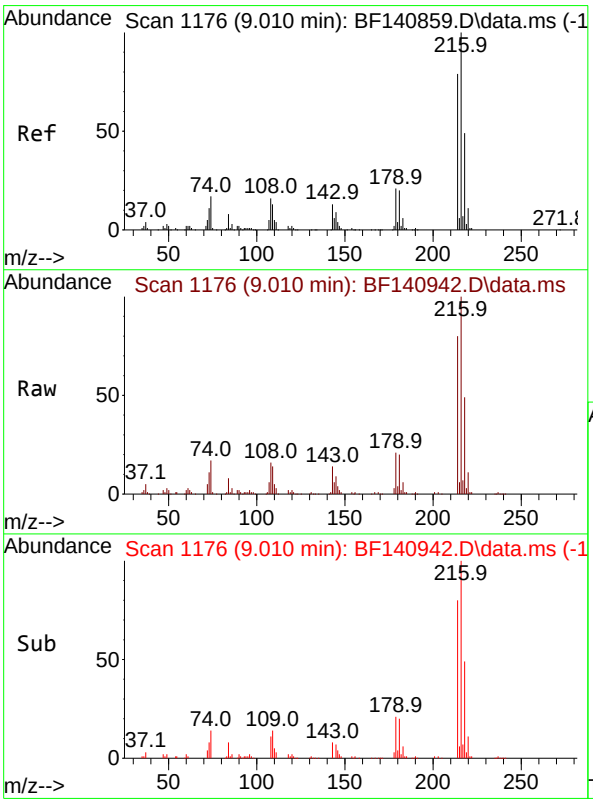
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 162319

Ion	Ratio	Lower	Upper
164	100		
162	99.2	79.9	119.9
160	43.6	35.2	52.8

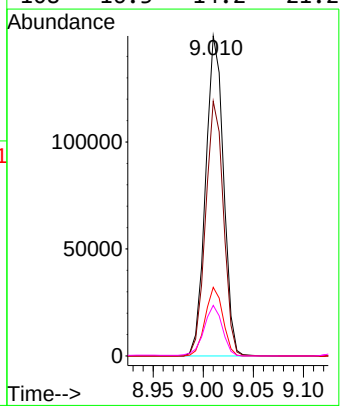


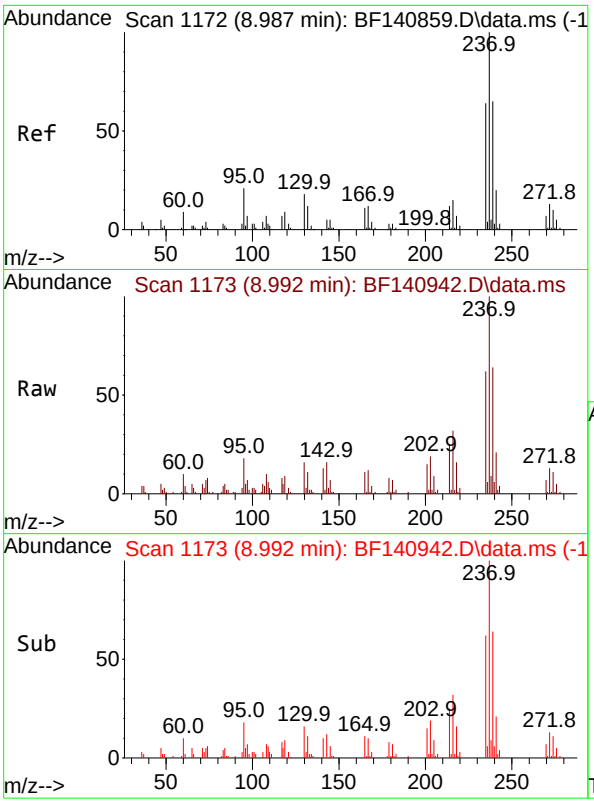


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.349 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:216 Resp: 186337

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.6	95.4
179	21.1	17.0	25.4
108	16.3	14.2	21.2



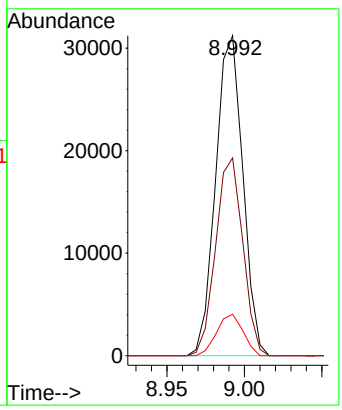


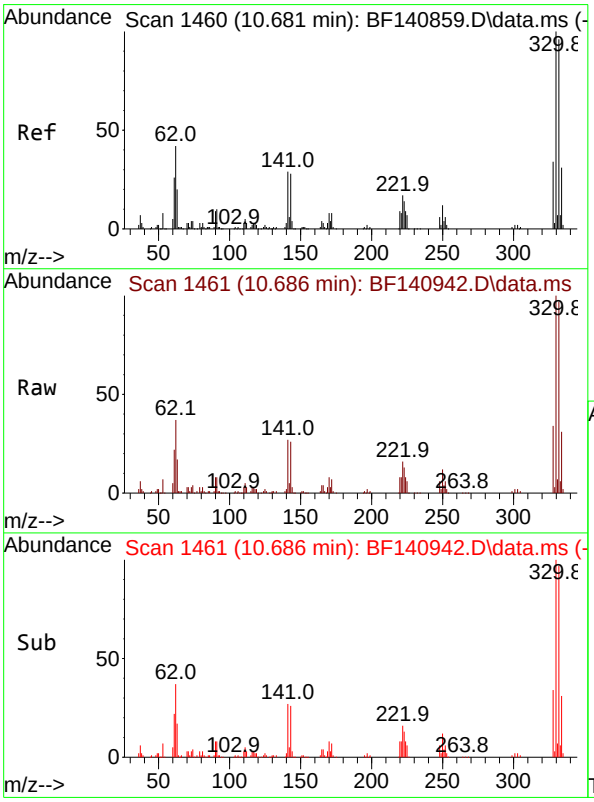
#41
Hexachlorocyclopentadiene
Concen: 34.773 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 38088

Ion	Ratio	Lower	Upper
237	100		
235	61.8	43.7	83.7
272	13.0	0.0	32.9

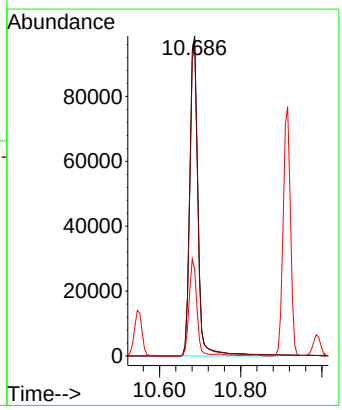


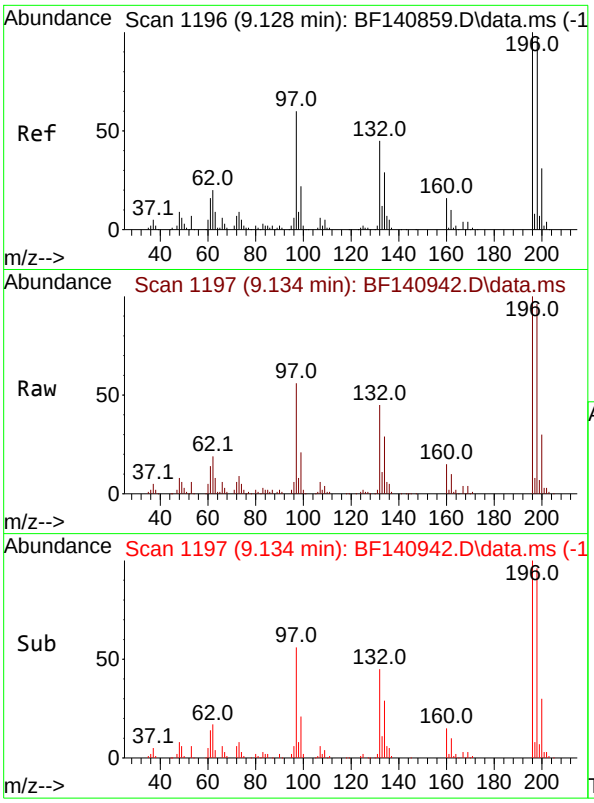


#42
2,4,6-Tribromophenol
Concen: 72.531 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:330 Resp: 139243

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.2	114.4
141	28.3	24.9	37.3



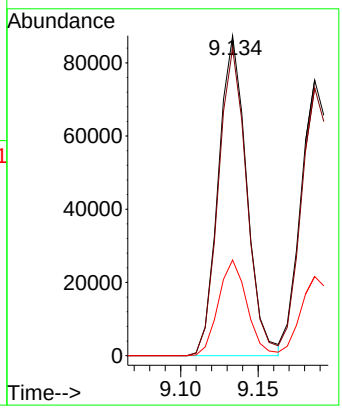


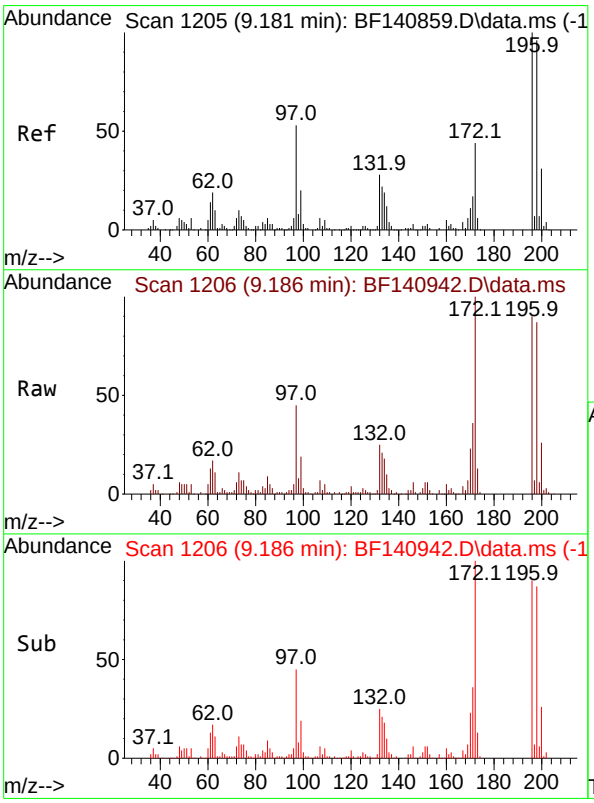
#43
2,4,6-Trichlorophenol
Concen: 36.226 ng
RT: 9.134 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 110669

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.4	116.0
200	29.9	24.5	36.7

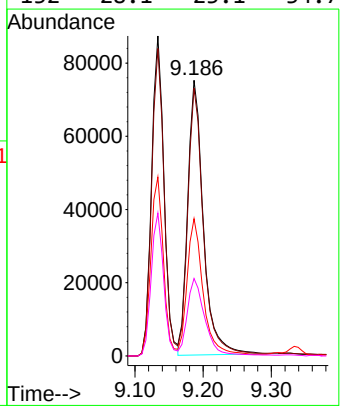


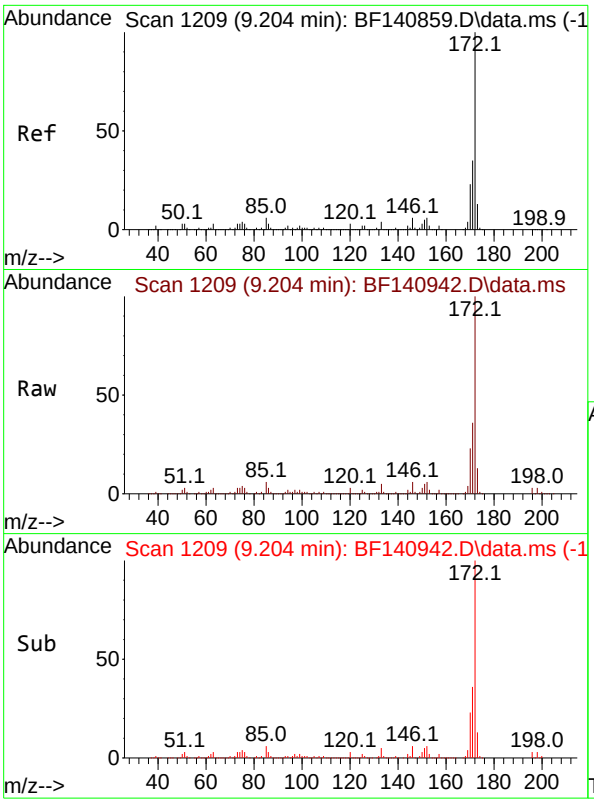


#44
2,4,5-Trichlorophenol
Concen: 35.638 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:196 Resp: 119664

Ion	Ratio	Lower	Upper
196	100		
198	97.2	77.2	115.8
97	49.8	42.2	63.4
132	28.1	23.1	34.7



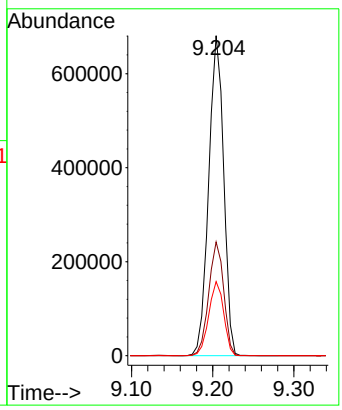


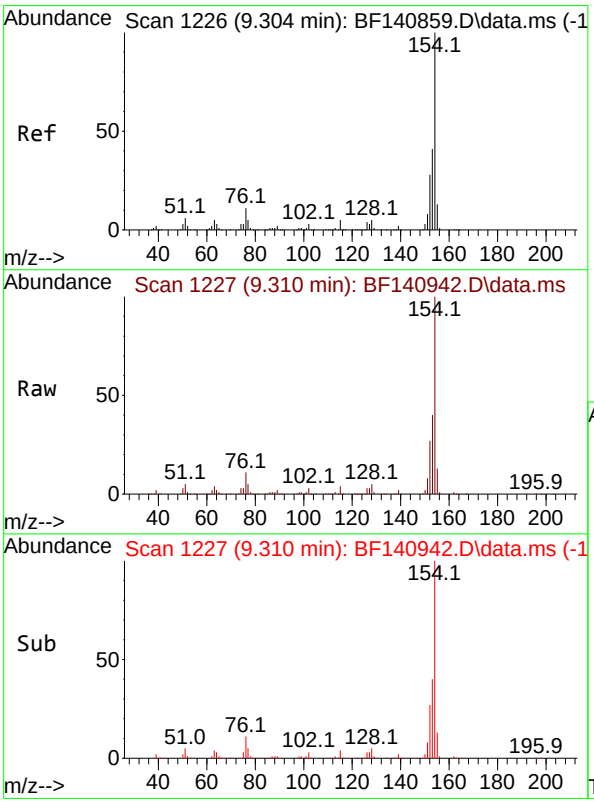
#45
2-Fluorobiphenyl
Concen: 73.670 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 869766

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.4	42.6
170	23.2	18.6	28.0

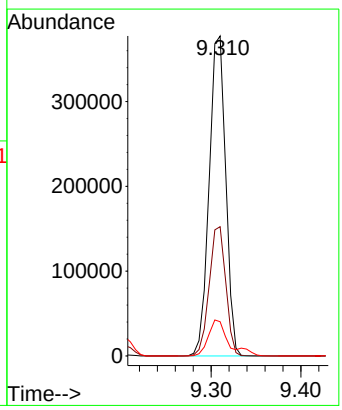


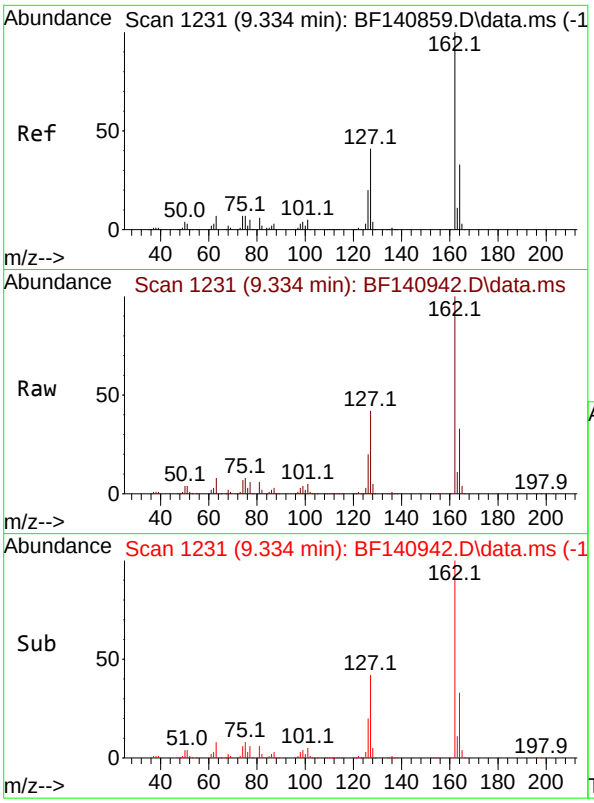


#46
1,1'-Biphenyl
Concen: 37.480 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:154 Resp: 483766

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.8	60.8
76	10.7	0.0	31.0



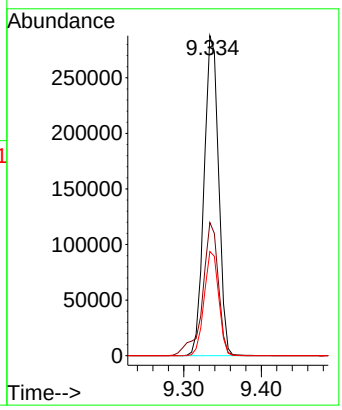


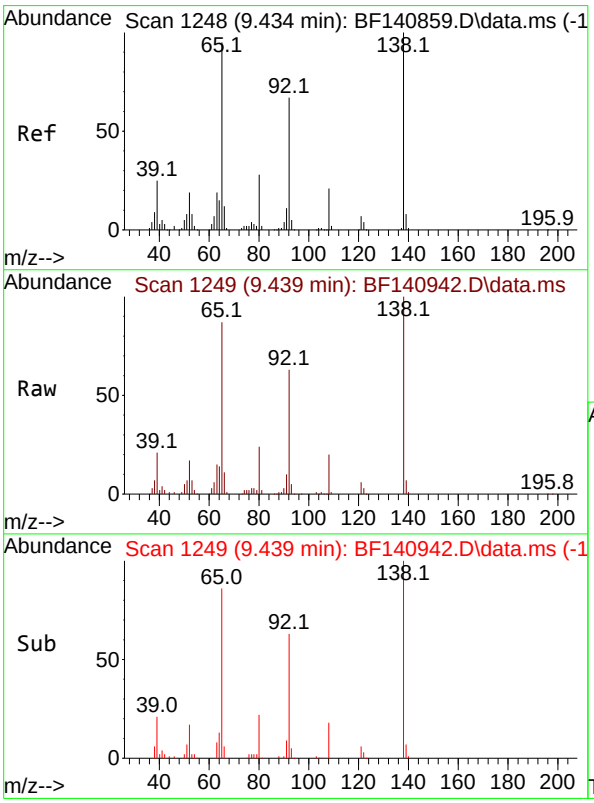
#47
2-Chloronaphthalene
Concen: 37.889 ng
RT: 9.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 374124

Ion	Ratio	Lower	Upper
162	100		
127	41.6	33.5	50.3
164	32.5	26.2	39.2

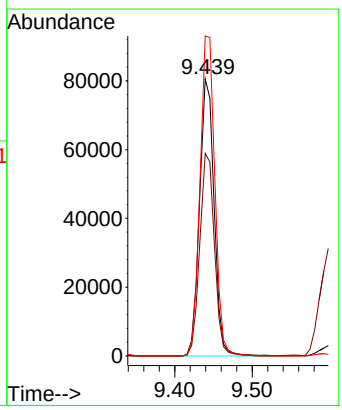


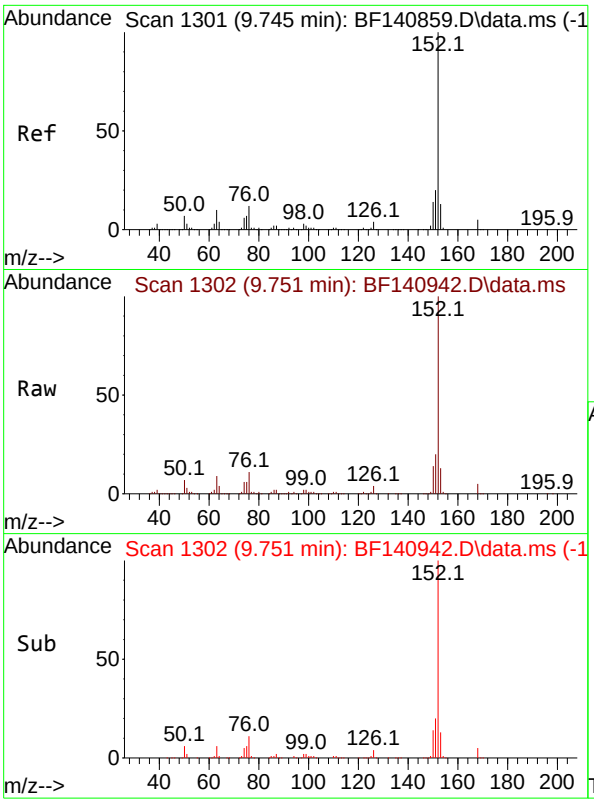


#48
2-Nitroaniline
Concen: 35.406 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion: 65 Resp: 105588

Ion	Ratio	Lower	Upper
65	100		
92	73.1	56.3	84.5
138	115.5	83.8	125.6



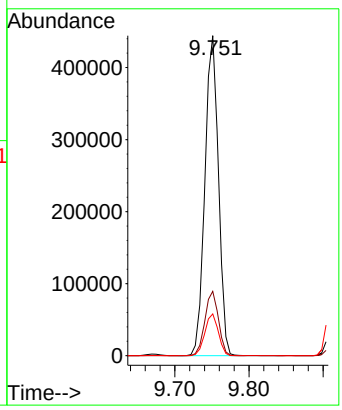


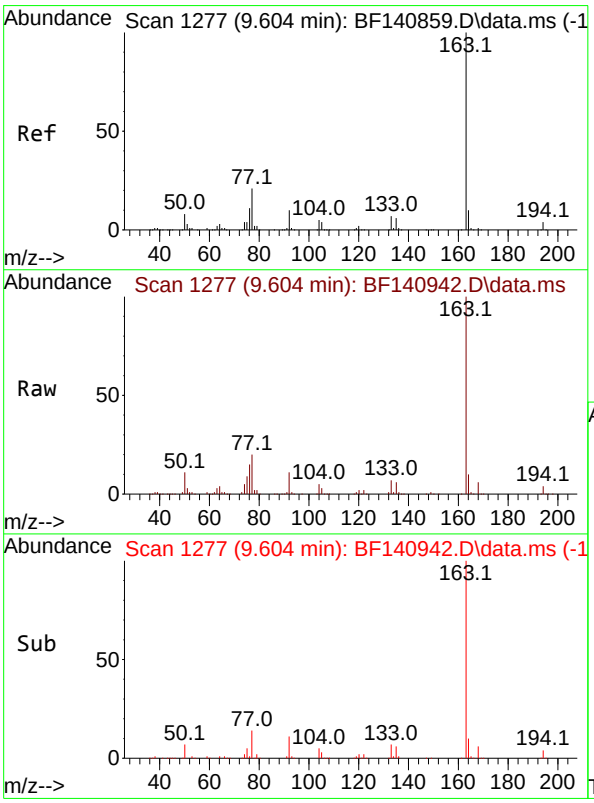
#49
Acenaphthylene
Concen: 38.943 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 565101

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.0	10.6	16.0

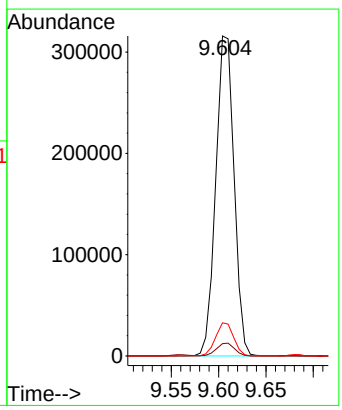


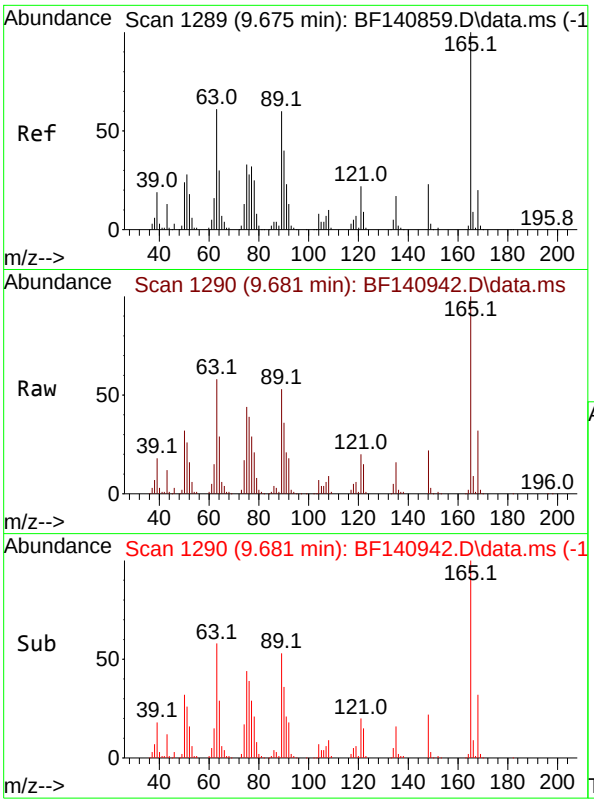


#50
Dimethylphthalate
Concen: 37.159 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:163 Resp: 425243

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.3	8.1	12.1



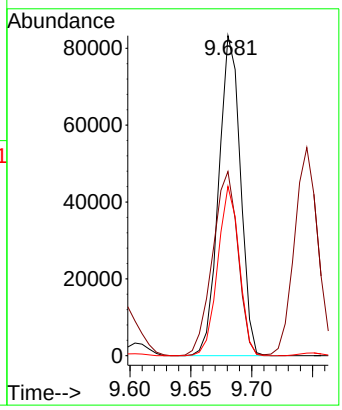


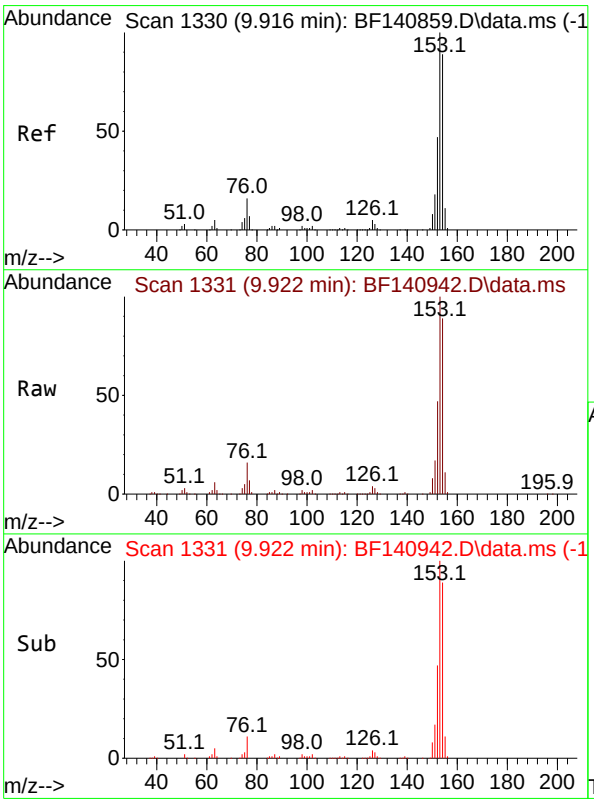
#51
2,6-Dinitrotoluene
Concen: 39.451 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 103210

Ion	Ratio	Lower	Upper
165	100		
63	57.5	49.7	74.5
89	52.9	48.2	72.4

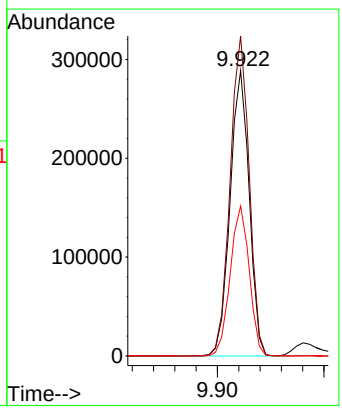


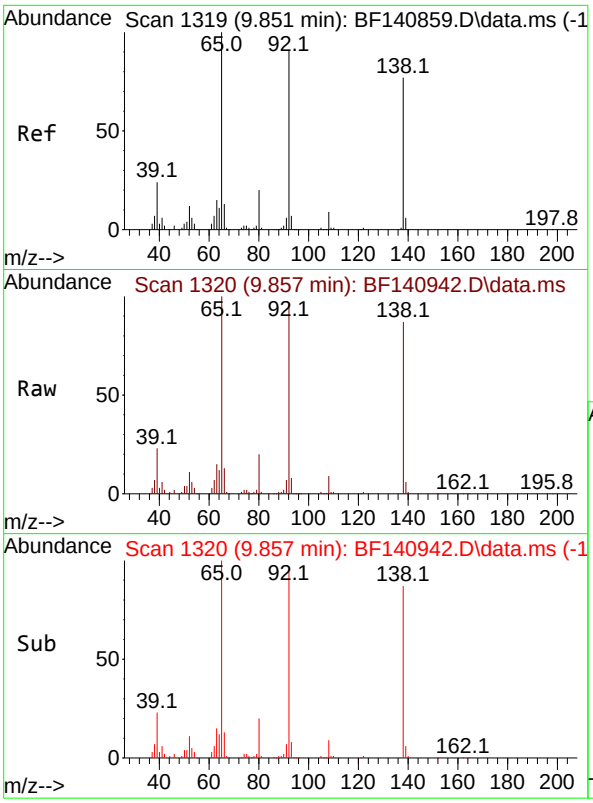


#52
Acenaphthene
Concen: 38.772 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:154 Resp: 359395

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.9	134.9
152	52.6	42.6	63.8



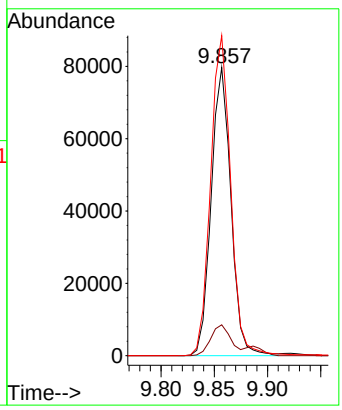


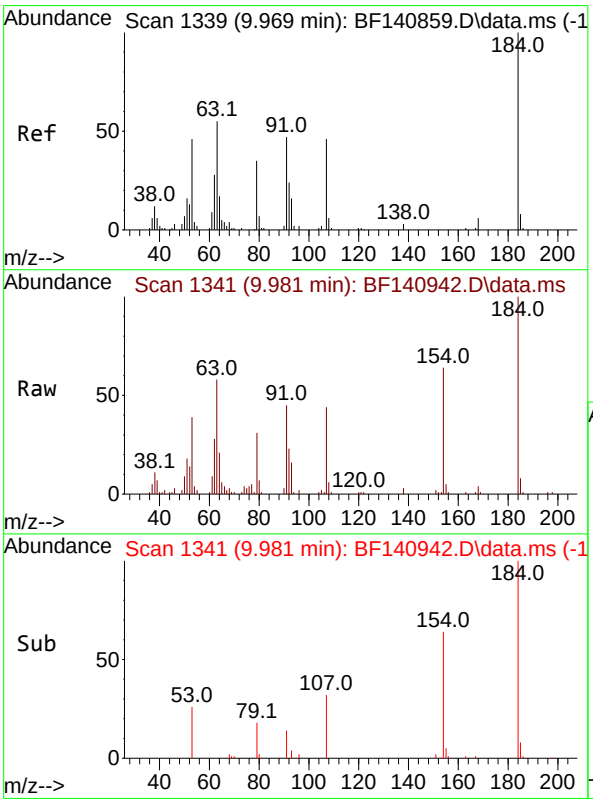
#53
3-Nitroaniline
Concen: 39.535 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 102644

Ion	Ratio	Lower	Upper
138	100		
108	10.7	9.0	13.4
92	111.0	95.5	143.3

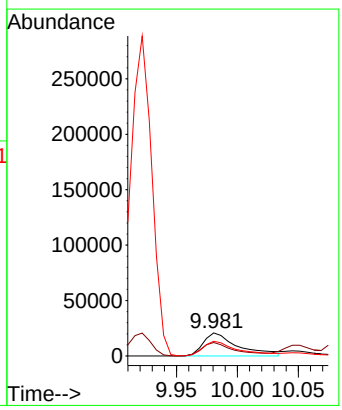


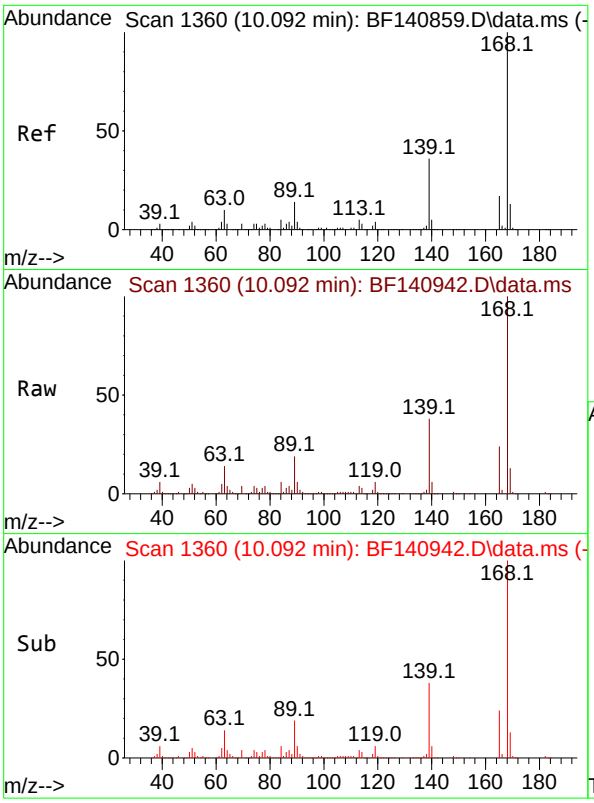


#54
2,4-Dinitrophenol
Concen: 36.272 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:184 Resp: 41330

Ion	Ratio	Lower	Upper
184	100		
63	58.3	51.6	77.4
154	64.1	56.1	84.1



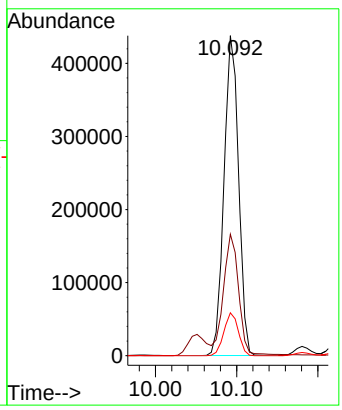


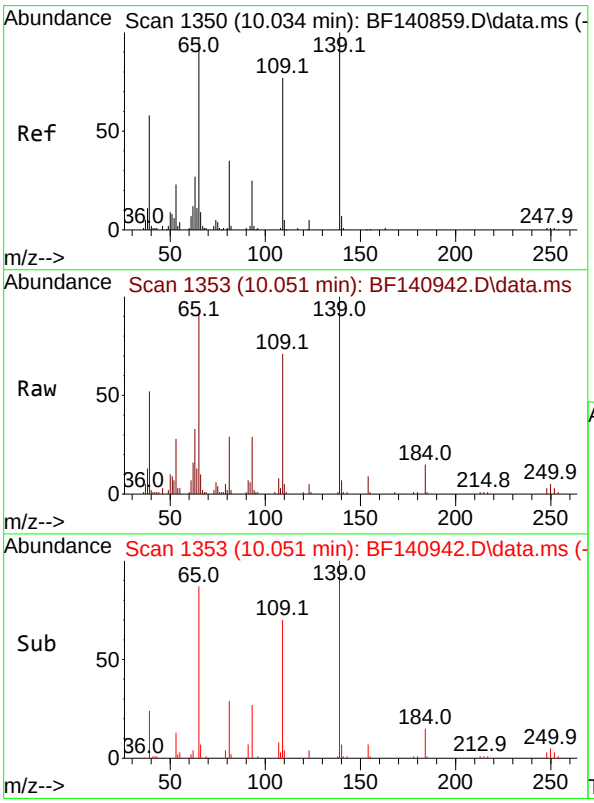
#55
Dibenzofuran
Concen: 38.012 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 545976

Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.1	46.7
169	13.4	10.6	16.0

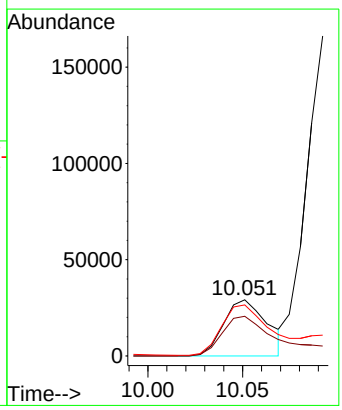


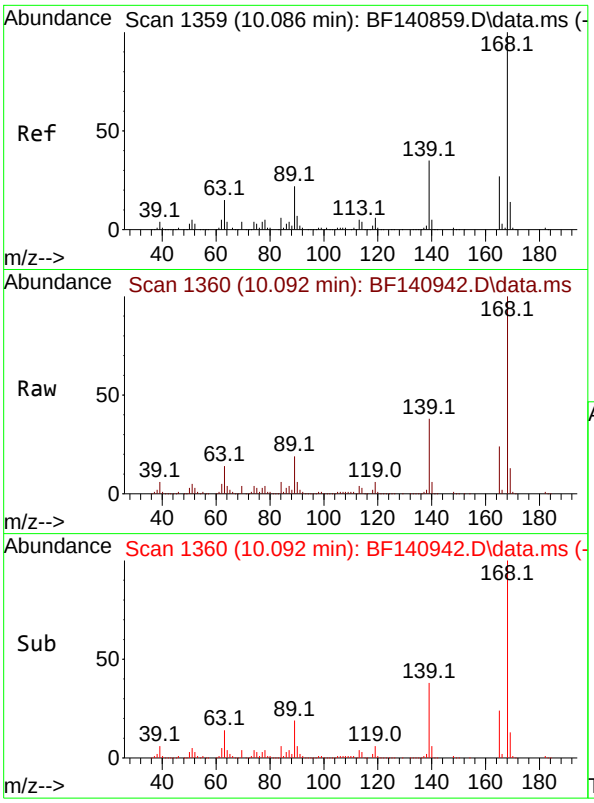


#56
4-Nitrophenol
Concen: 35.773 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:139 Resp: 46328

Ion	Ratio	Lower	Upper
139	100		
109	70.9	56.7	96.7
65	91.1	78.1	118.1



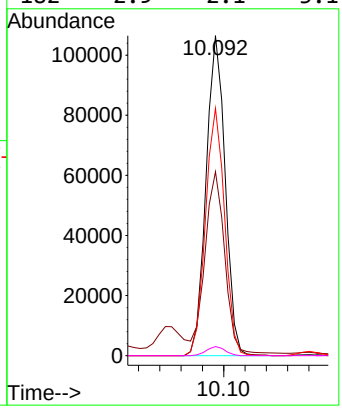


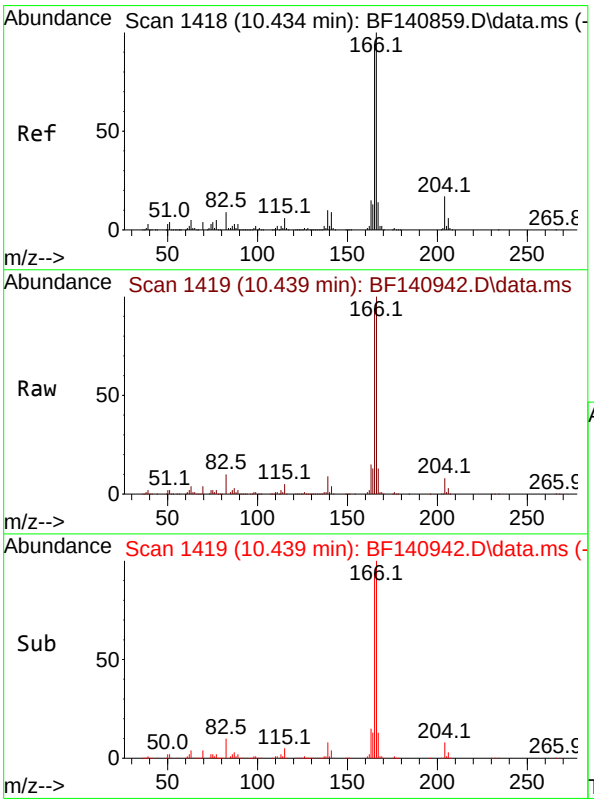
#57
2,4-Dinitrotoluene
Concen: 38.516 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 132579

Ion	Ratio	Lower	Upper
165	100		
63	57.5	49.3	73.9
89	77.3	66.2	99.4
182	2.9	2.1	3.1

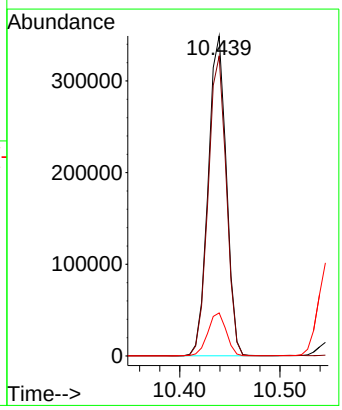


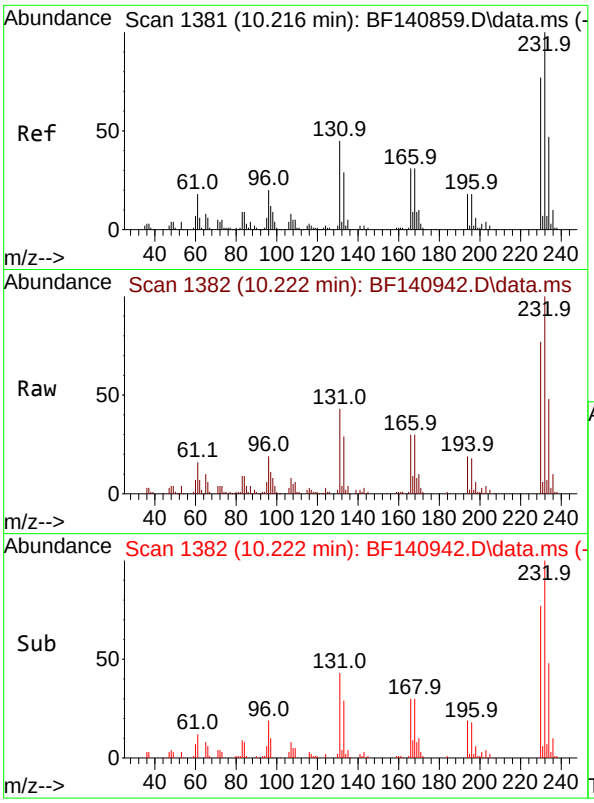


#58
Fluorene
Concen: 37.139 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:166 Resp: 440079

Ion	Ratio	Lower	Upper
166	100		
165	93.7	75.1	112.7
167	13.5	11.1	16.7



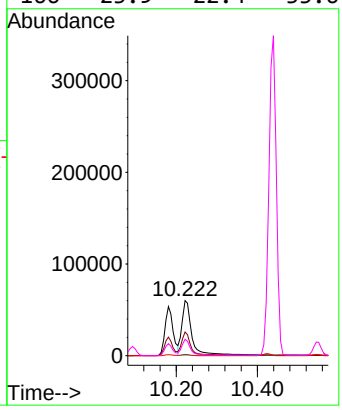


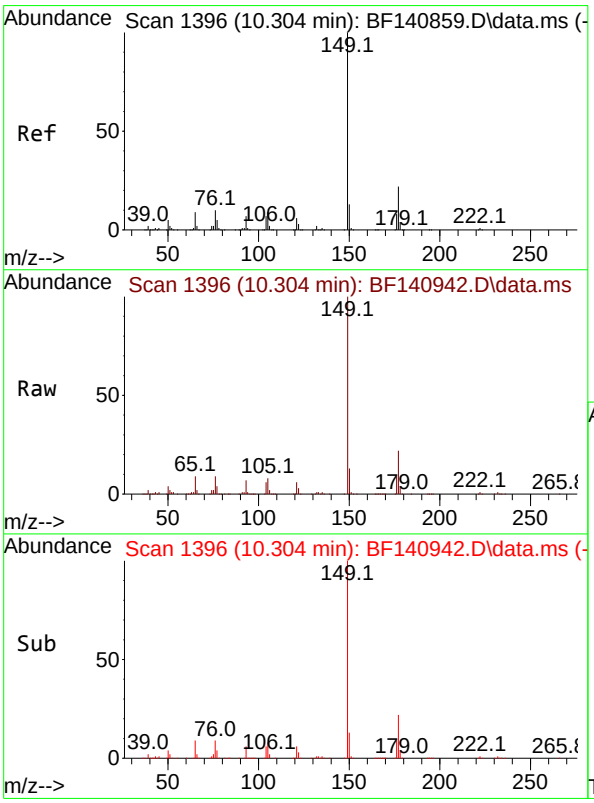
#59
2,3,4,6-Tetrachlorophenol
Concen: 37.214 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 101821

Ion	Ratio	Lower	Upper
232	100		
131	37.8	35.1	52.7
130	1.9	1.8	2.8
166	23.9	22.4	33.6

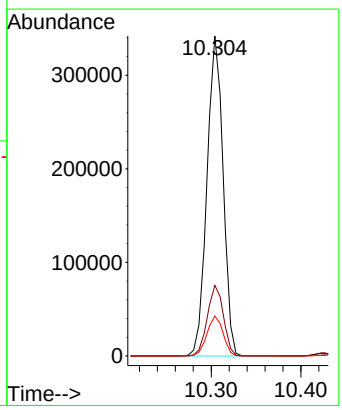


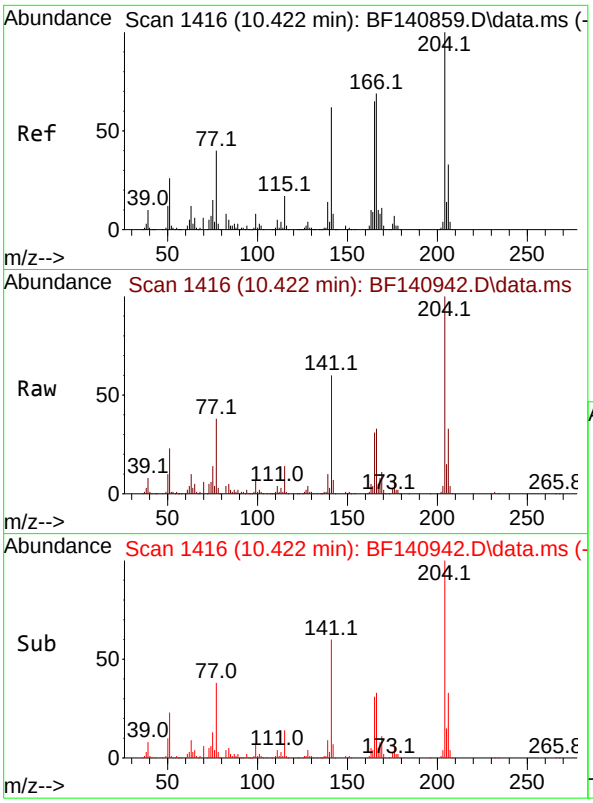


#60
Diethylphthalate
Concen: 35.936 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 426443

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.2	25.8
150	12.5	10.1	15.1



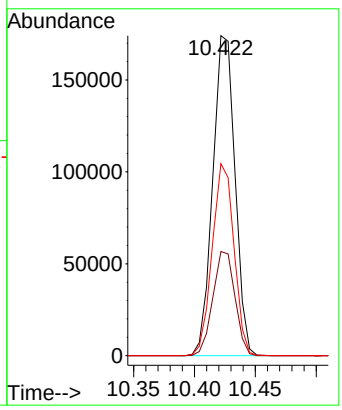


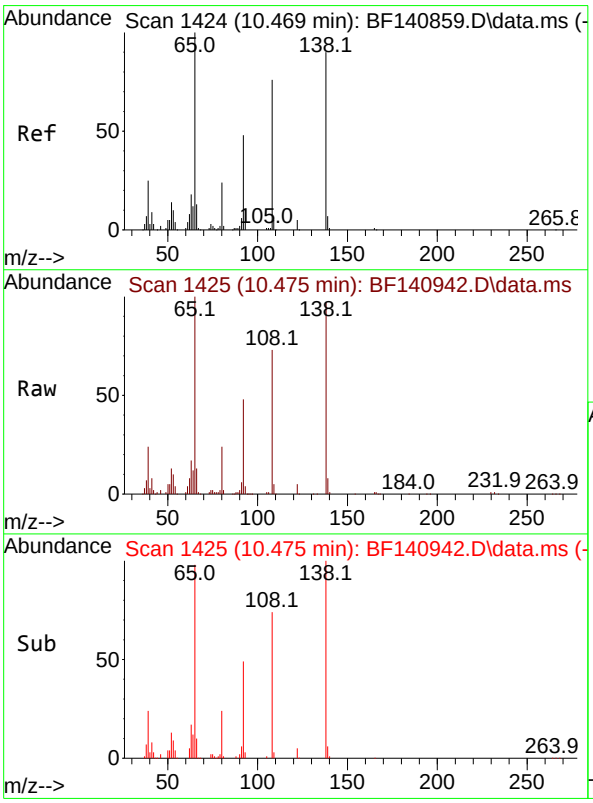
#61
4-Chlorophenyl-phenylether
Concen: 37.200 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 221428

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.5	39.7
141	60.0	50.0	75.0

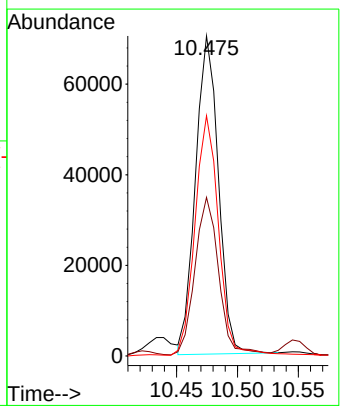


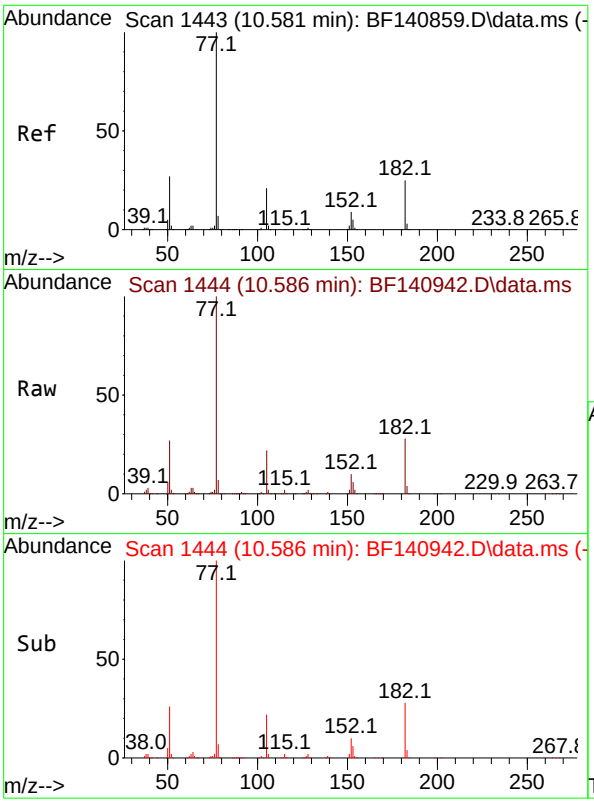


#62
4-Nitroaniline
Concen: 33.834 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:138 Resp: 91794

Ion	Ratio	Lower	Upper
138	100		
92	49.6	32.6	72.6
108	75.1	64.1	104.1



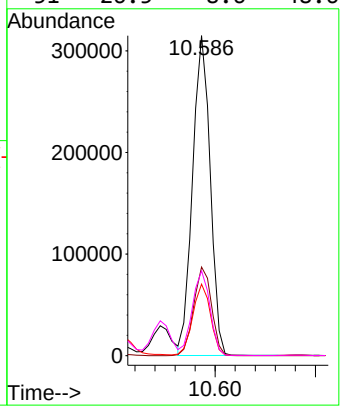


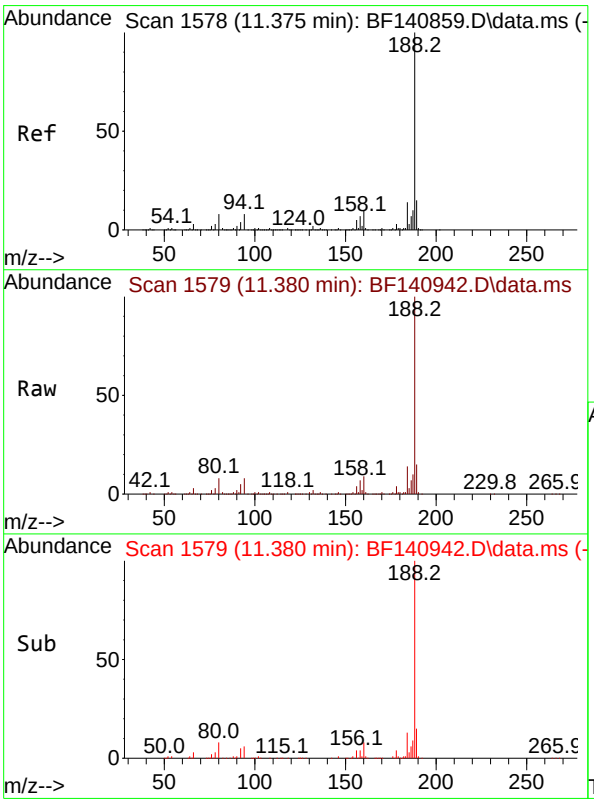
#63
Azobenzene
Concen: 34.454 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 384375

Ion	Ratio	Lower	Upper
77	100		
182	27.7	4.5	44.5
105	22.3	0.9	40.9
51	26.5	8.6	48.6

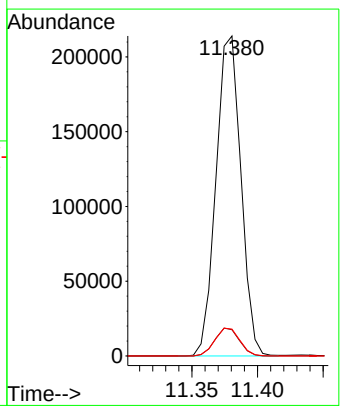


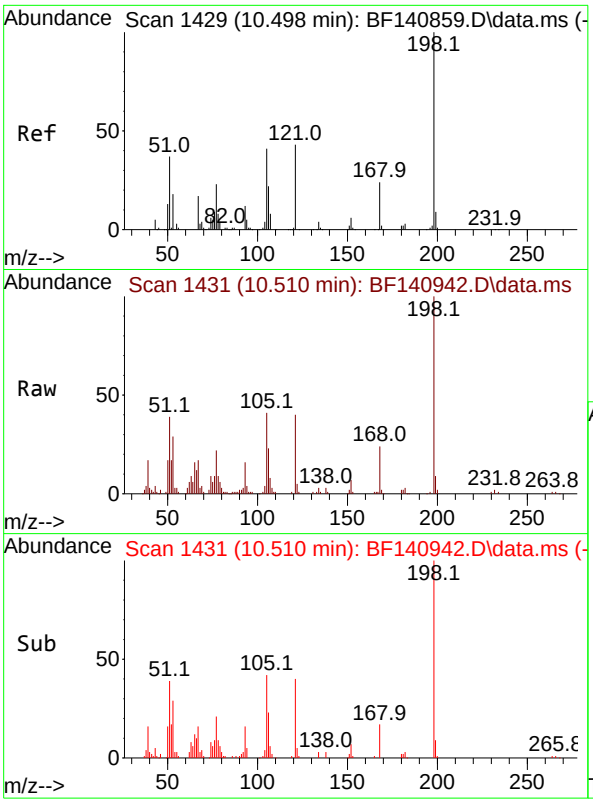


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:188 Resp: 282660

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	8.4	6.8	10.2



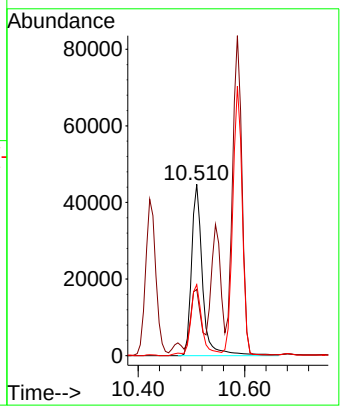


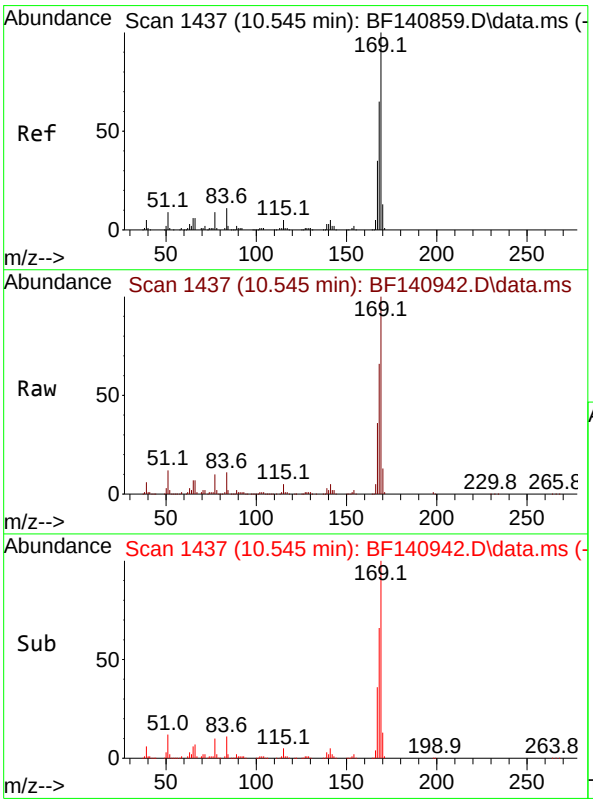
#65
4,6-Dinitro-2-methylphenol
Concen: 40.269 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 64499

Ion	Ratio	Lower	Upper
198	100		
51	38.7	24.4	64.4
105	41.5	22.1	62.1

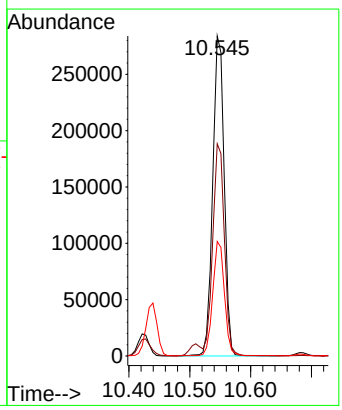


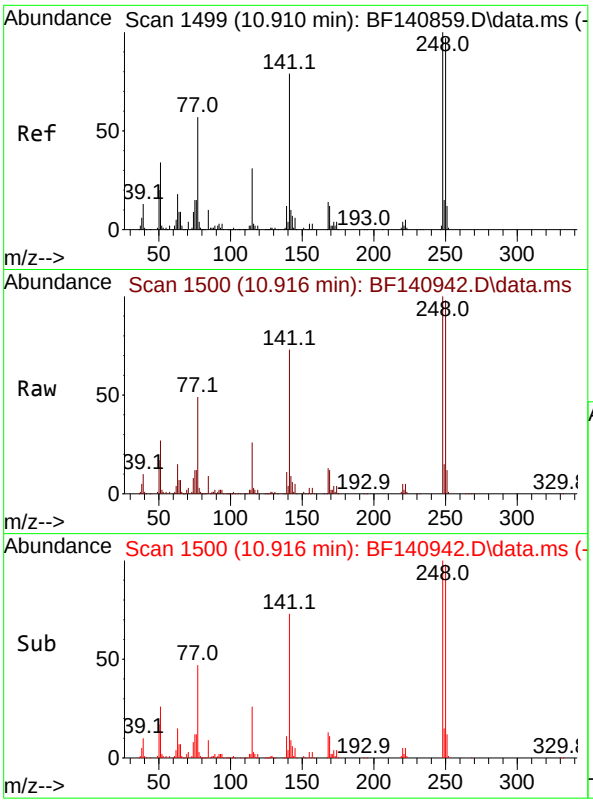


#66
n-Nitrosodiphenylamine
Concen: 42.748 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:169 Resp: 371501

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.4	80.0
167	35.8	28.3	42.5



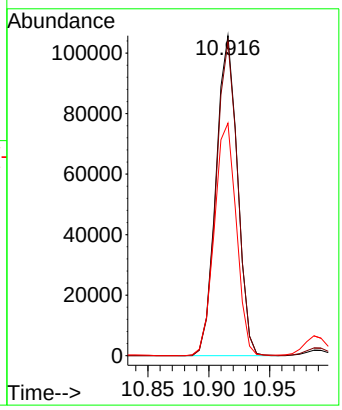


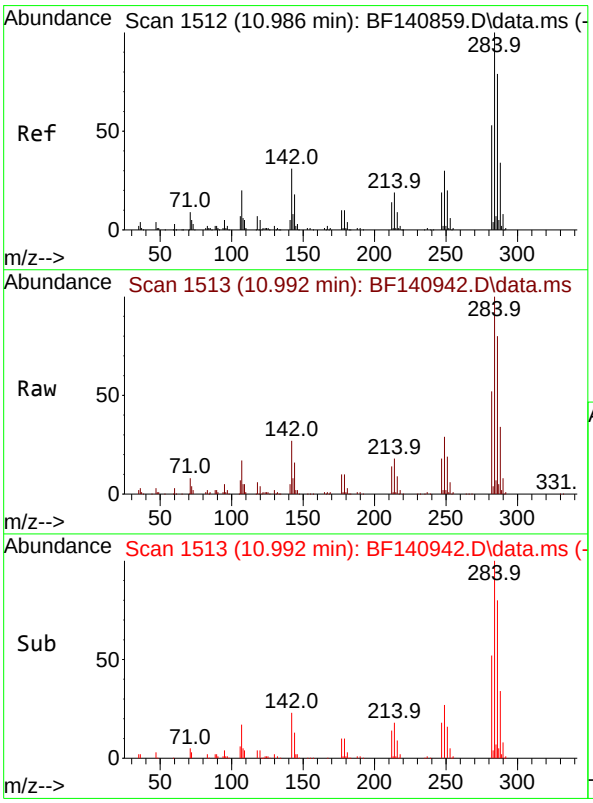
#67
4-Bromophenyl-phenylether
Concen: 41.055 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 129825

Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.4	116.2
141	72.6	62.9	94.3

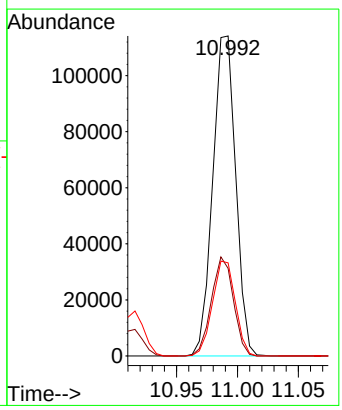


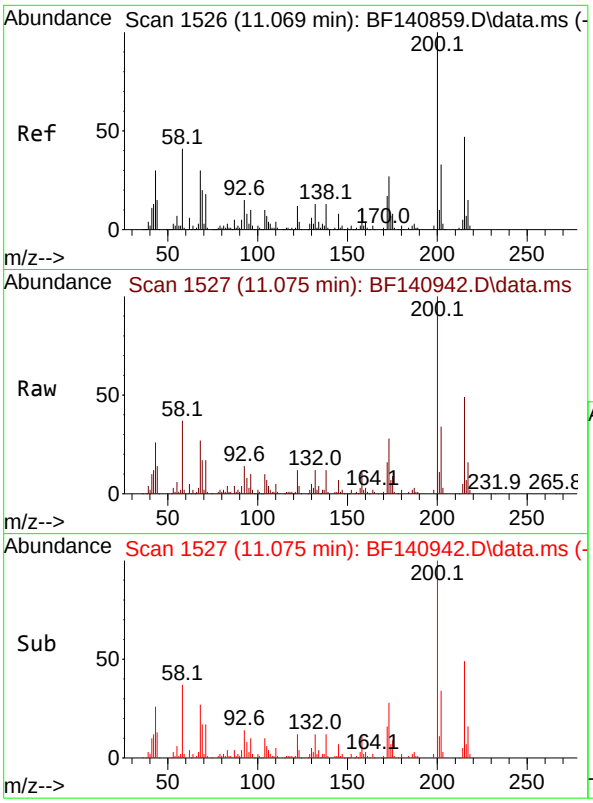


#68
Hexachlorobenzene
Concen: 41.697 ng
RT: 10.992 min Scan# 1513
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:284 Resp: 149493

Ion	Ratio	Lower	Upper
284	100		
142	27.4	24.6	36.8
249	29.1	24.3	36.5



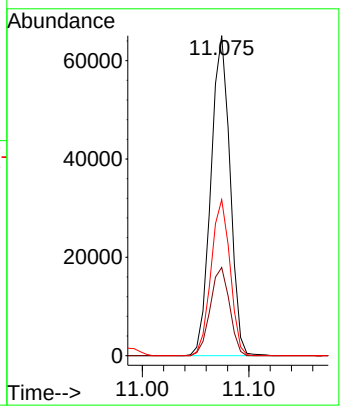


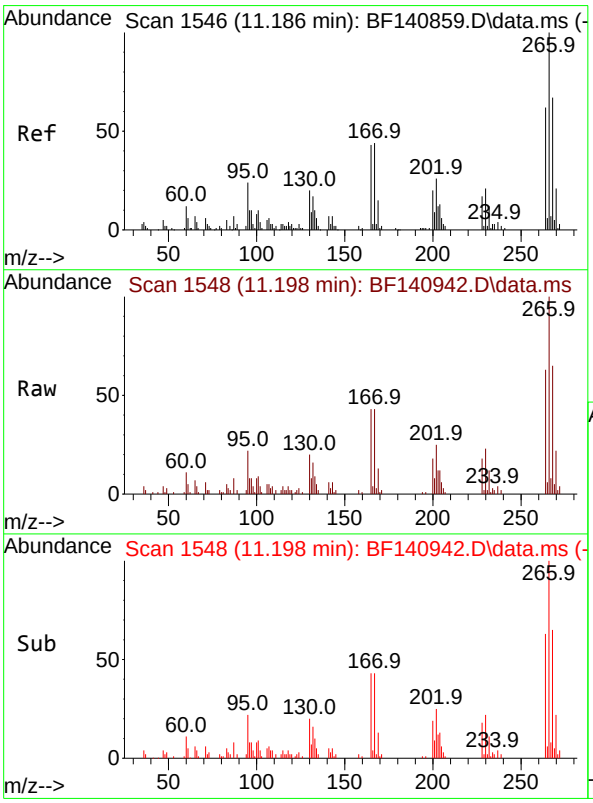
#69
Atrazine
Concen: 33.453 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 81196

Ion	Ratio	Lower	Upper
200	100		
173	27.6	6.6	46.6
215	48.8	26.7	66.7

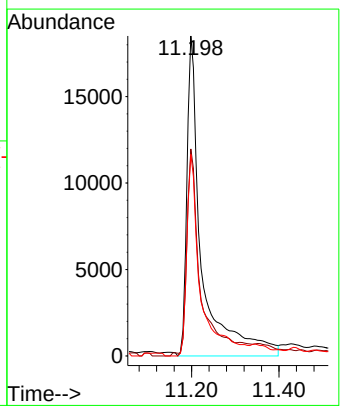


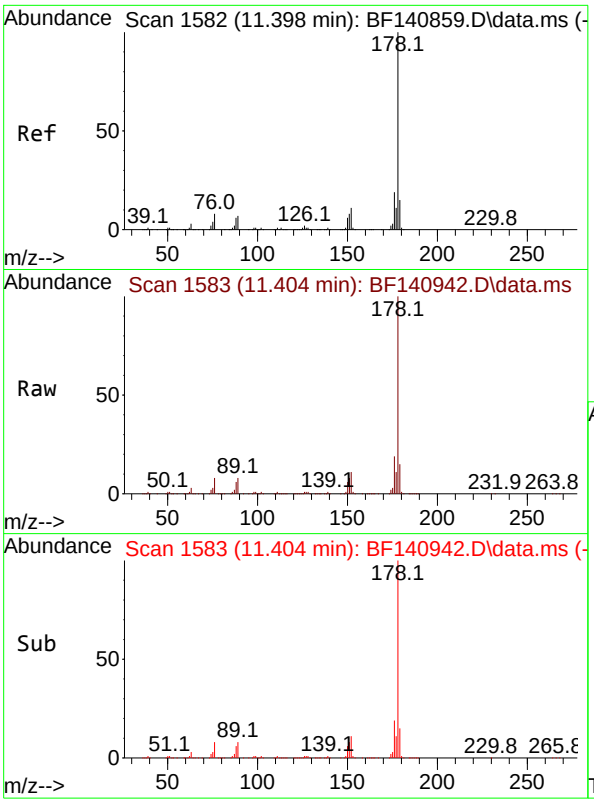


#70
Pentachlorophenol
Concen: 33.287 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:266 Resp: 43633

Ion	Ratio	Lower	Upper
266	100		
268	64.7	54.0	81.0
264	63.0	49.4	74.2



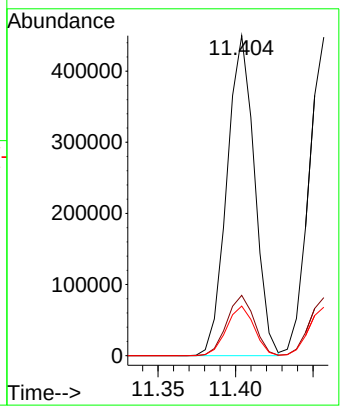


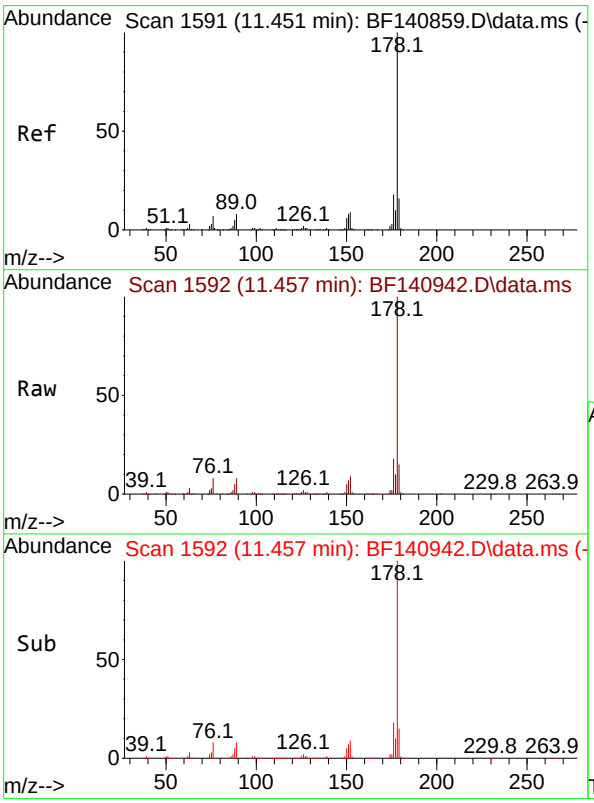
#71
Phenanthrene
Concen: 38.164 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 554743

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.1	18.1

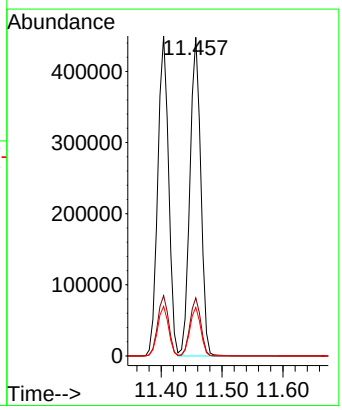


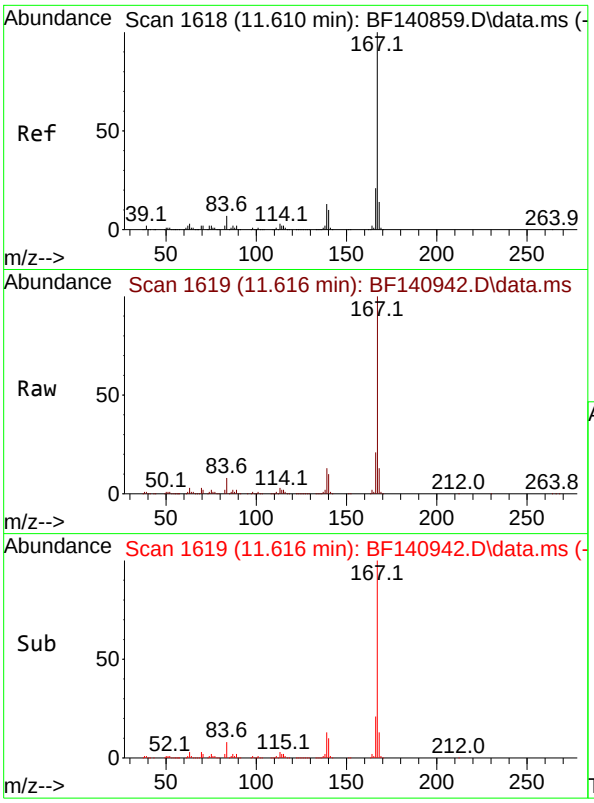


#72
Anthracene
Concen: 38.826 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:178 Resp: 555785

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.2	12.6	18.8



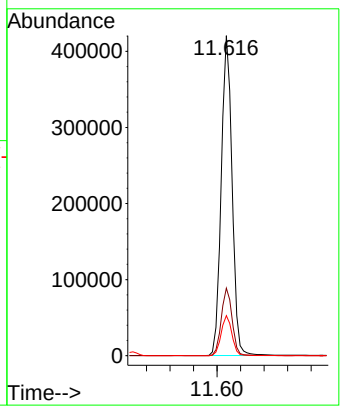


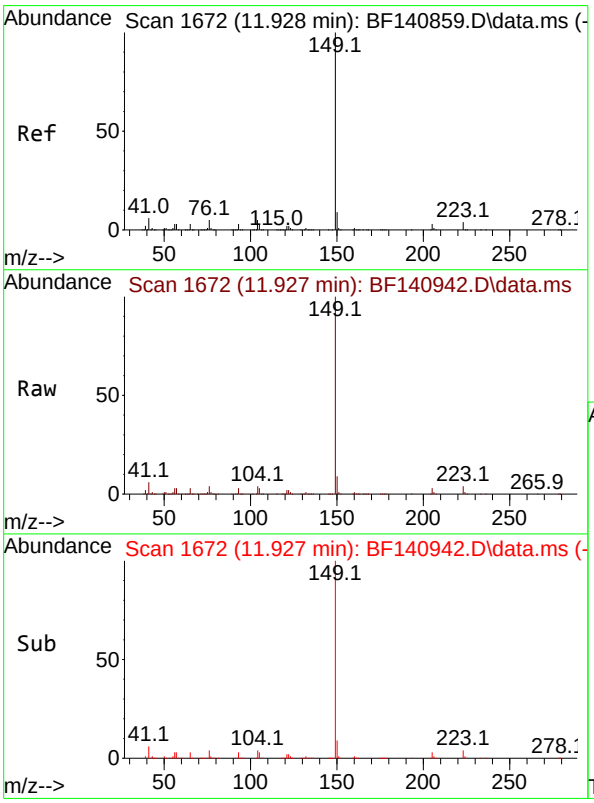
#73
Carbazole
Concen: 38.449 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 539092

Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.0	25.6
139	12.5	10.2	15.2

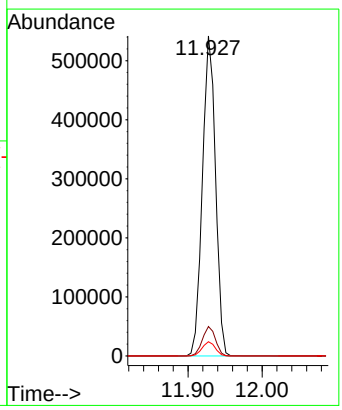


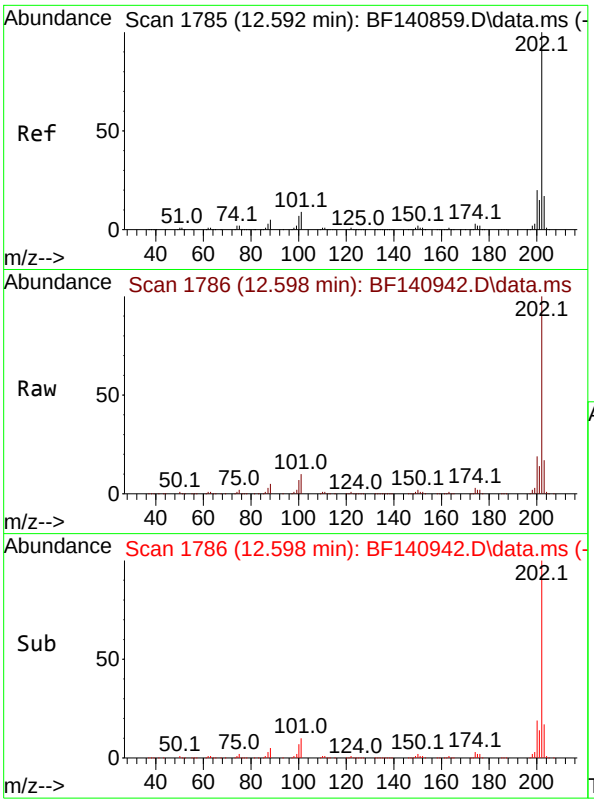


#74
Di-n-butylphthalate
Concen: 40.470 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 665945

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.5	3.8	5.8



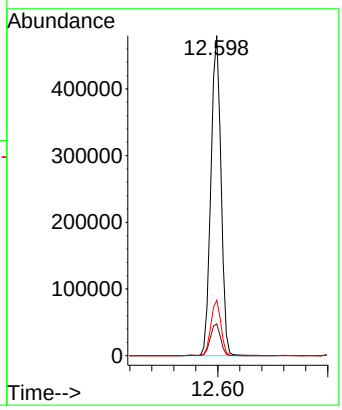


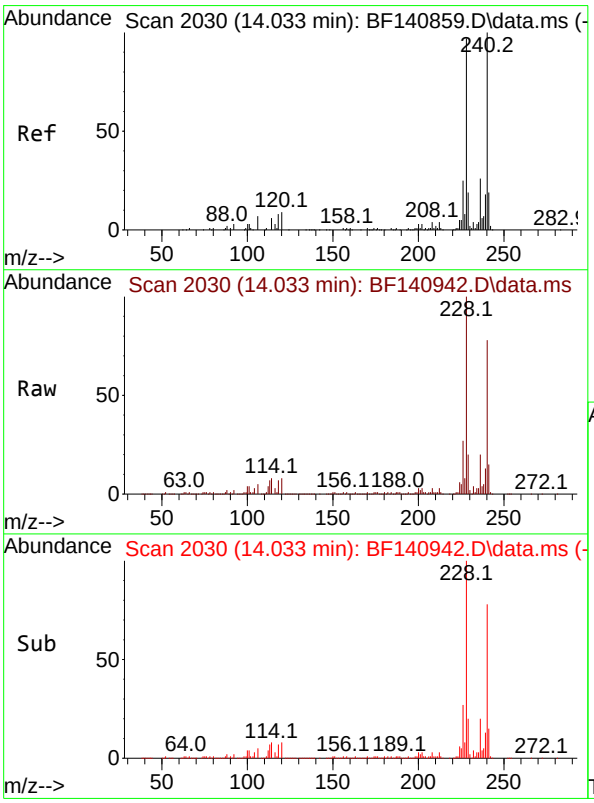
#75
Fluoranthene
Concen: 36.586 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 612458

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.3
203	17.3	0.0	37.4

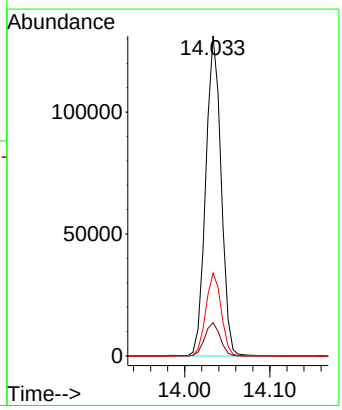


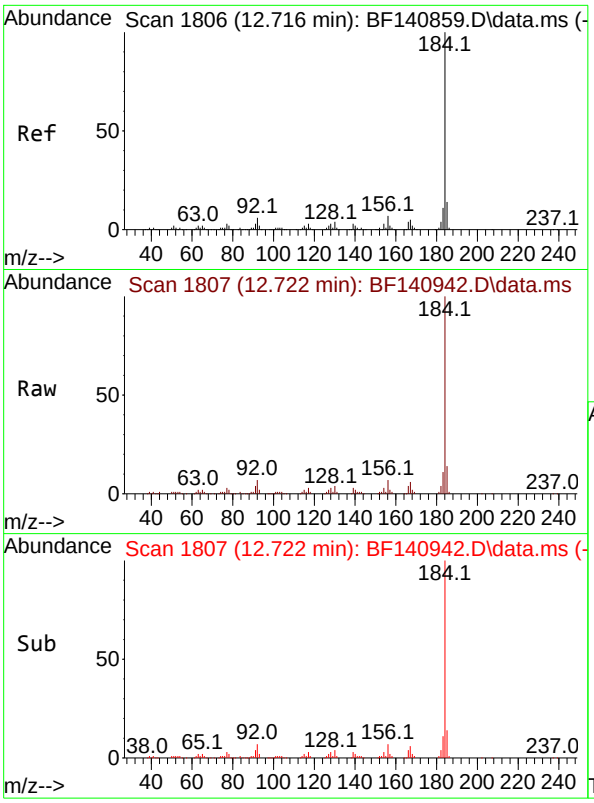


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:240 Resp: 164316

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.6	11.4
236	25.9	20.5	30.7



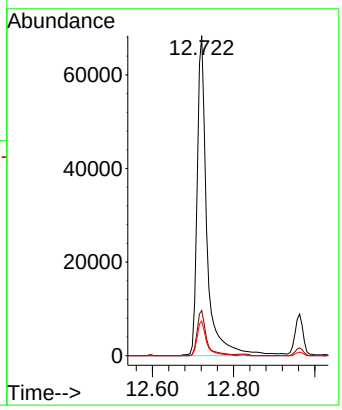


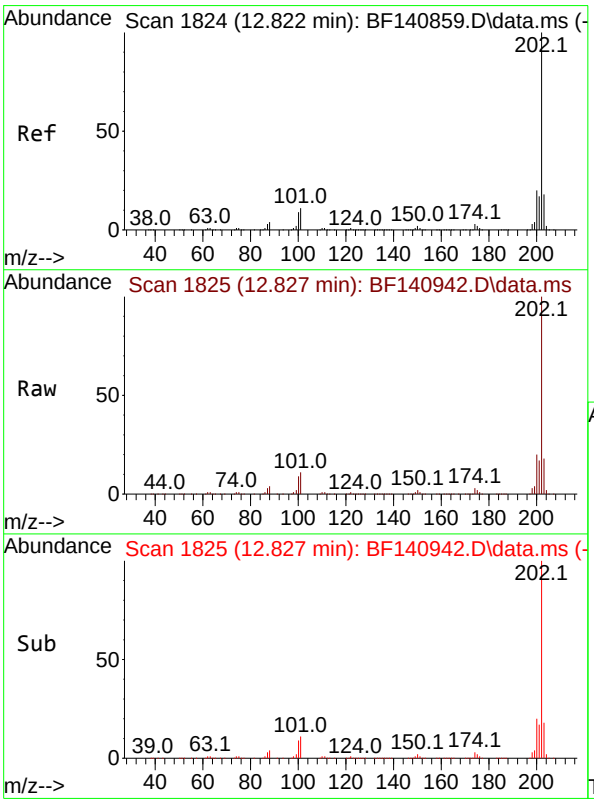
#77
Benzidine
Concen: 34.399 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 115361

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.1	16.7
183	10.8	9.0	13.4

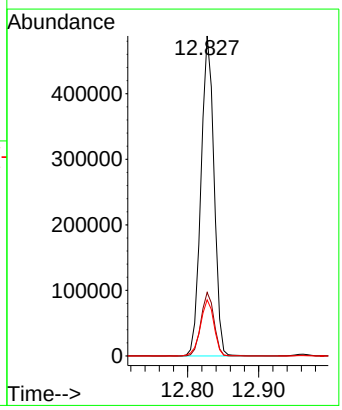


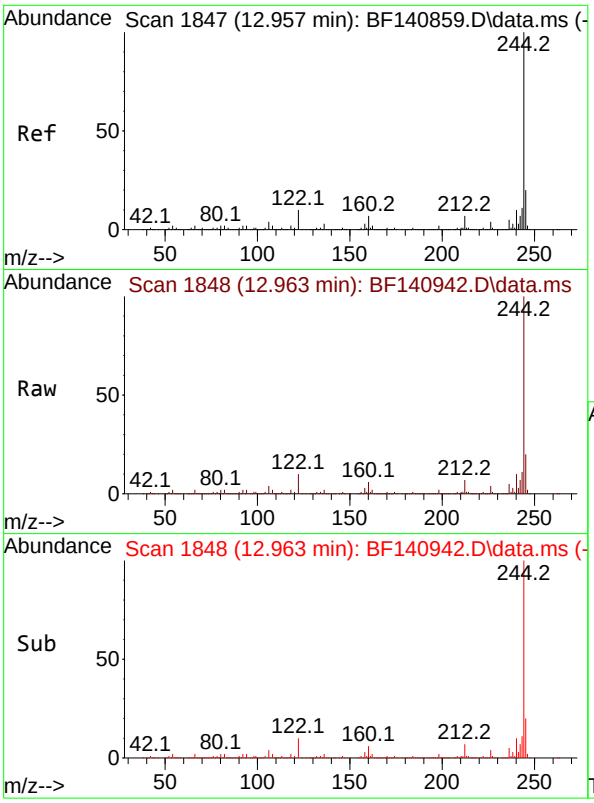


#78
Pyrene
Concen: 42.817 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:202 Resp: 625636

Ion	Ratio	Lower	Upper
202	100		
200	19.9	16.1	24.1
203	17.6	14.2	21.4



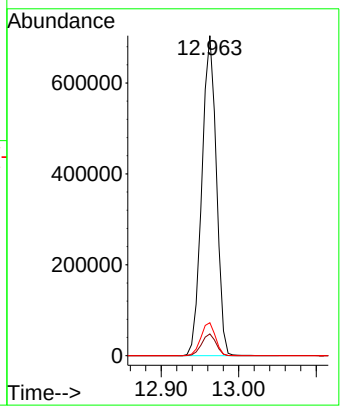


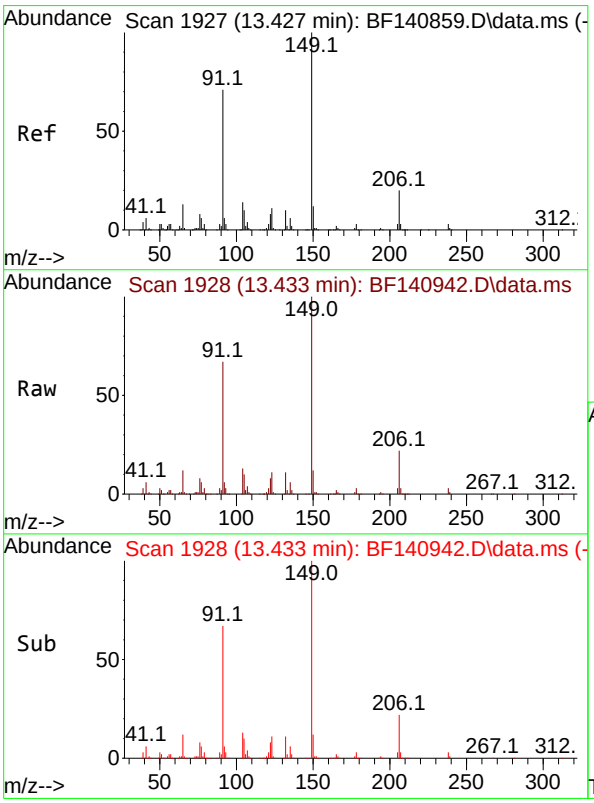
#79
Terphenyl-d14
Concen: 87.865 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 915592

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.3	8.2	12.2

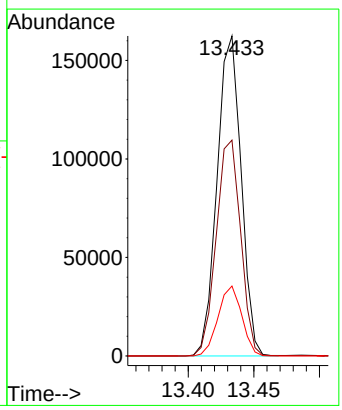


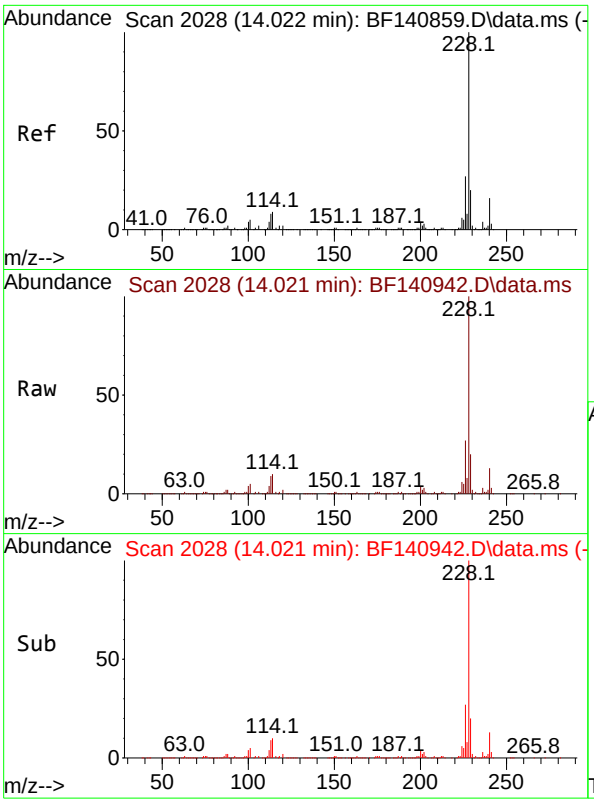


#80
Butylbenzylphthalate
Concen: 38.545 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 207238

Ion	Ratio	Lower	Upper
149	100		
91	67.4	56.7	85.1
206	21.8	16.4	24.6



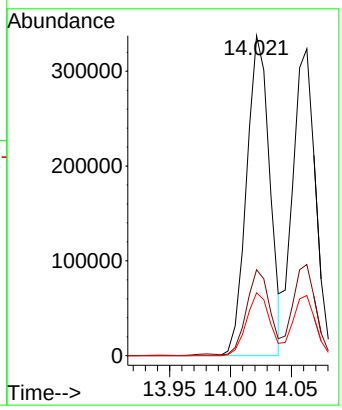


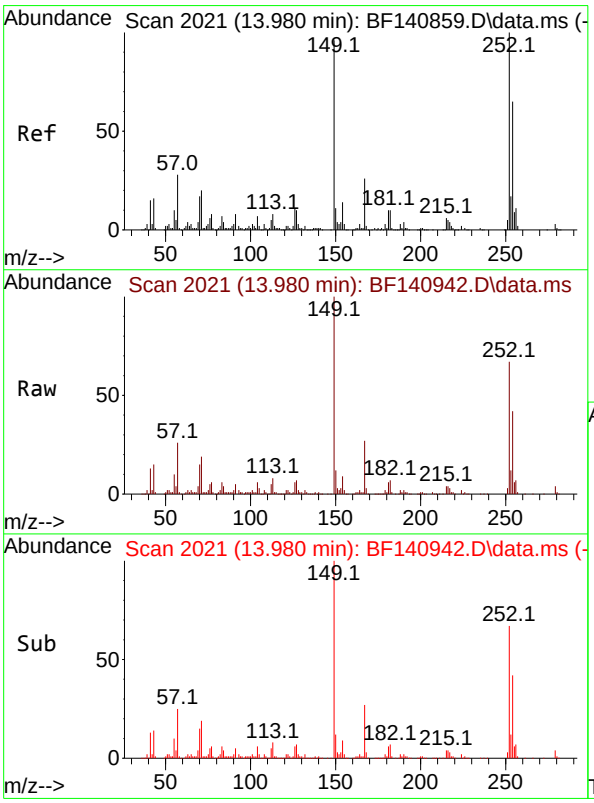
#81
Benzo(a)anthracene
Concen: 38.254 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 445495

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.7	15.8	23.8

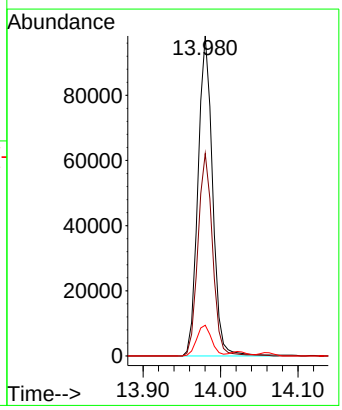


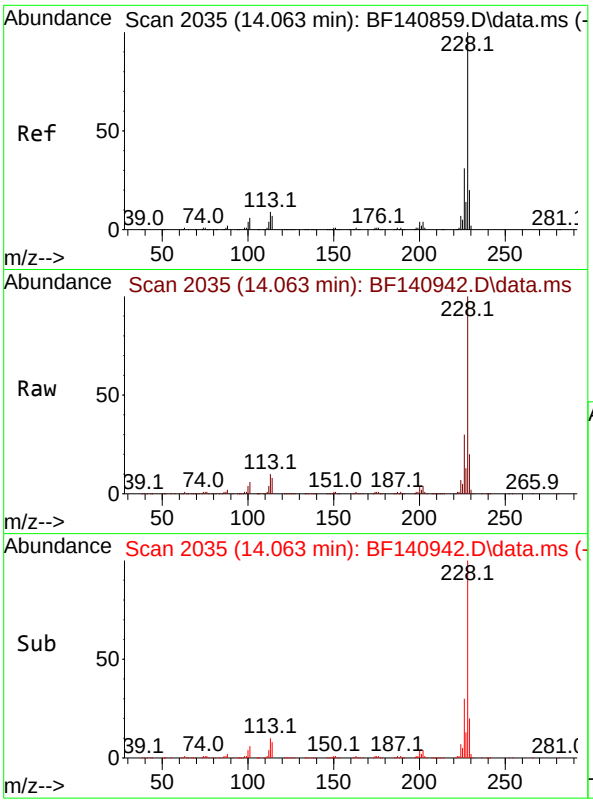


#82
3,3'-Dichlorobenzidine
Concen: 36.483 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 128185

Ion	Ratio	Lower	Upper
252	100		
254	63.3	52.3	78.5
126	9.6	8.4	12.6



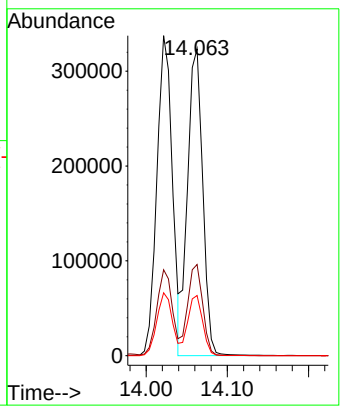


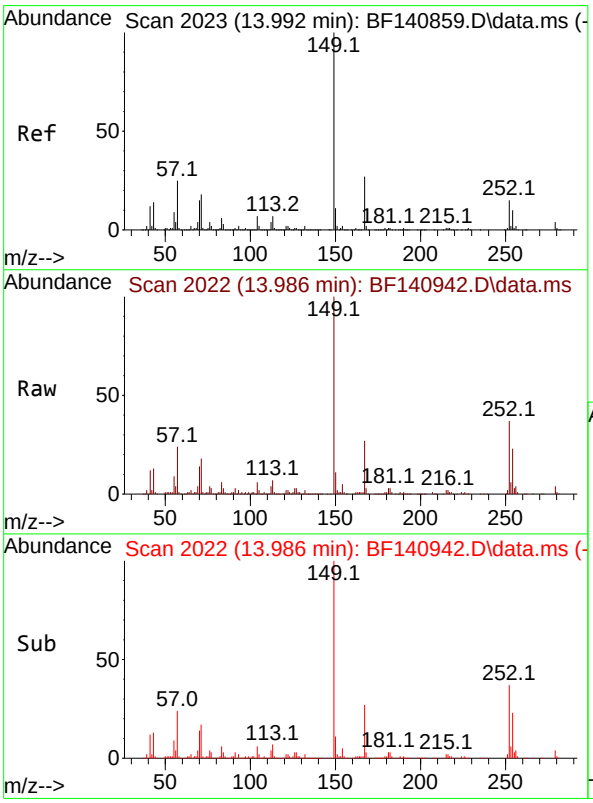
#83
Chrysene
Concen: 39.695 ng
RT: 14.063 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 420365

Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	19.6	16.0	24.0

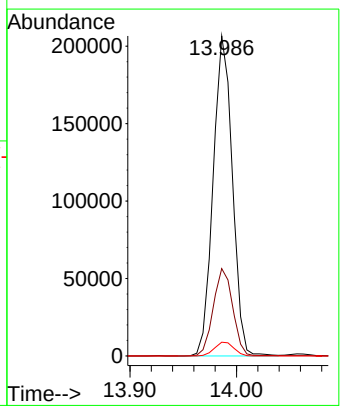


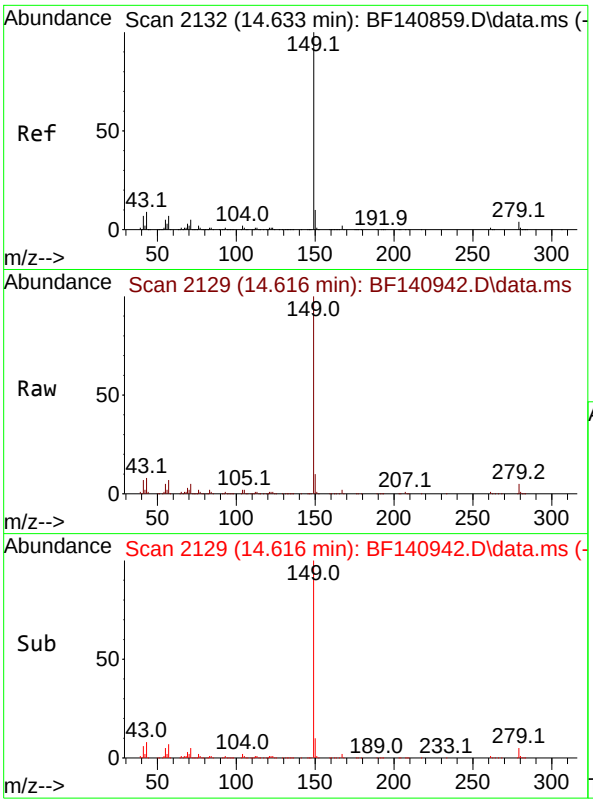


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.409 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:149 Resp: 259339

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.8
279	4.3	3.5	5.3



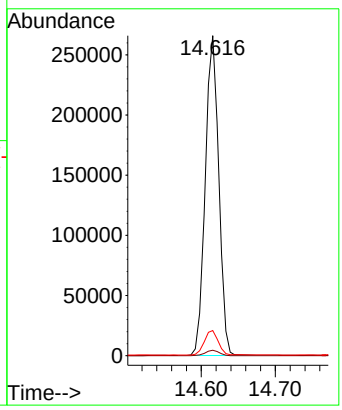


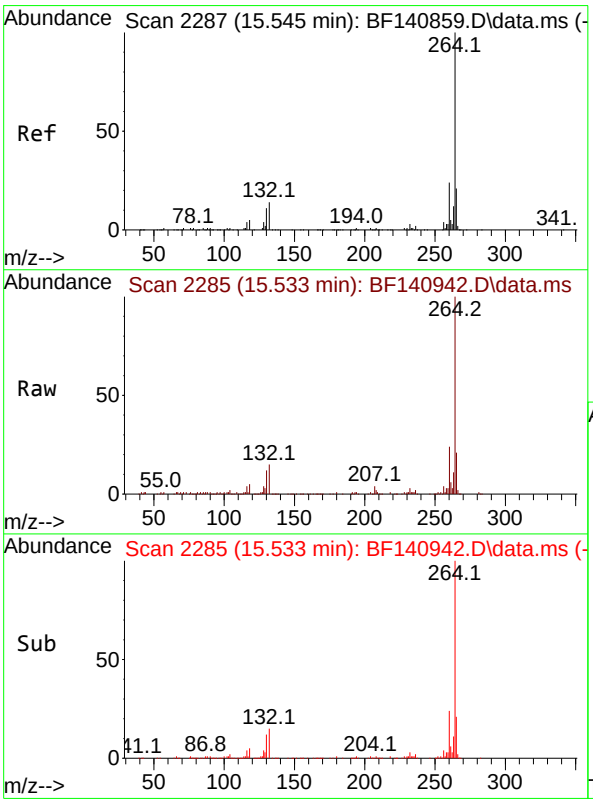
#85
Di-n-octyl phthalate
Concen: 32.062 ng
RT: 14.616 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 336272

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	8.1	7.0	10.6

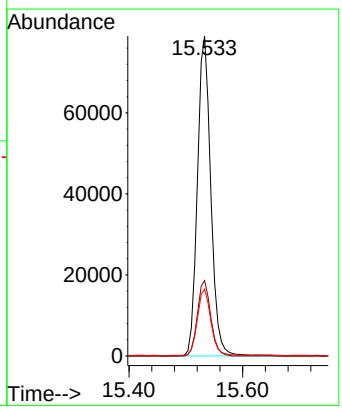


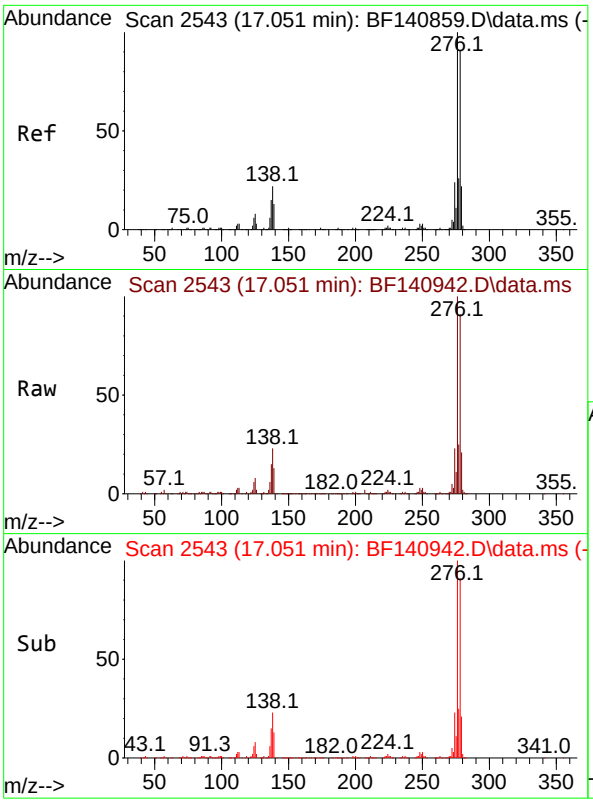


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:264 Resp: 129329

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	20.9	17.0	25.4



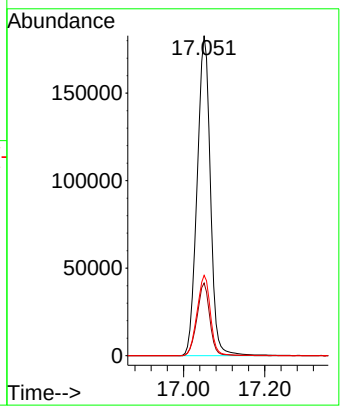


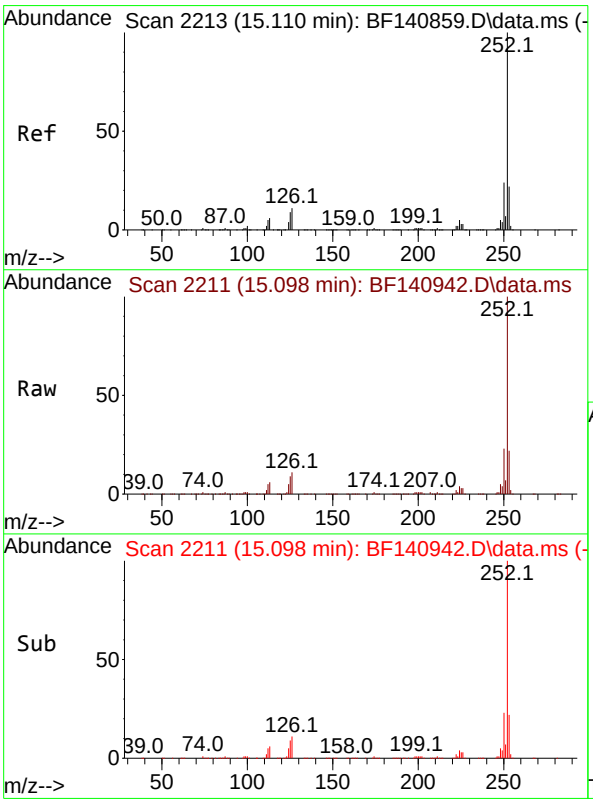
#87
Indeno(1,2,3-cd)pyrene
Concen: 51.437 ng
RT: 17.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 415125

Ion	Ratio	Lower	Upper
276	100		
138	21.8	16.9	25.3
277	25.2	20.2	30.4

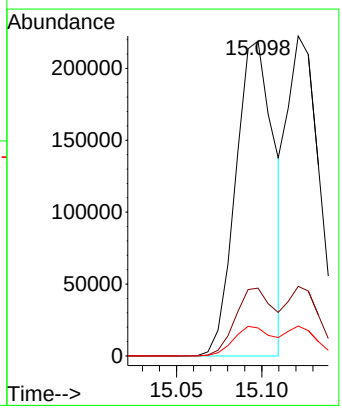


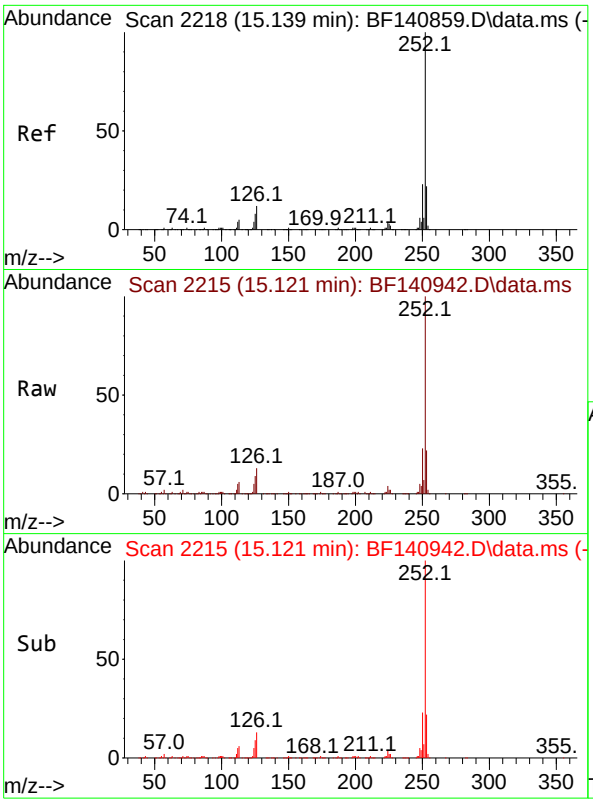


#88
Benzo(b)fluoranthene
Concen: 38.004 ng
RT: 15.098 min Scan# 2211
Delta R.T. -0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 341178

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.8	26.6
125	8.9	7.0	10.4



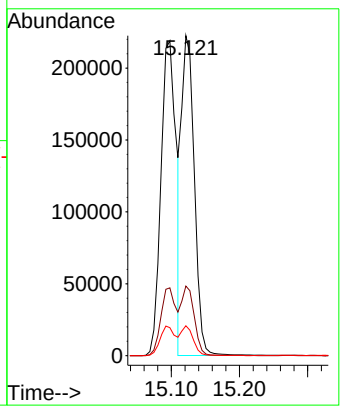


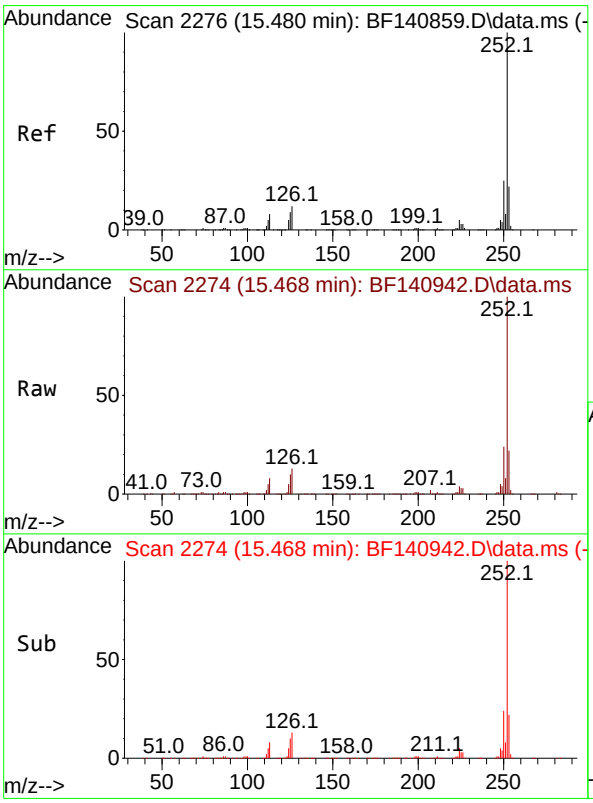
#89
Benzo(k)fluoranthene
Concen: 37.736 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 290595

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.3	6.8	10.2

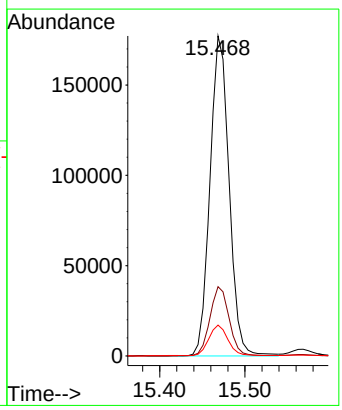


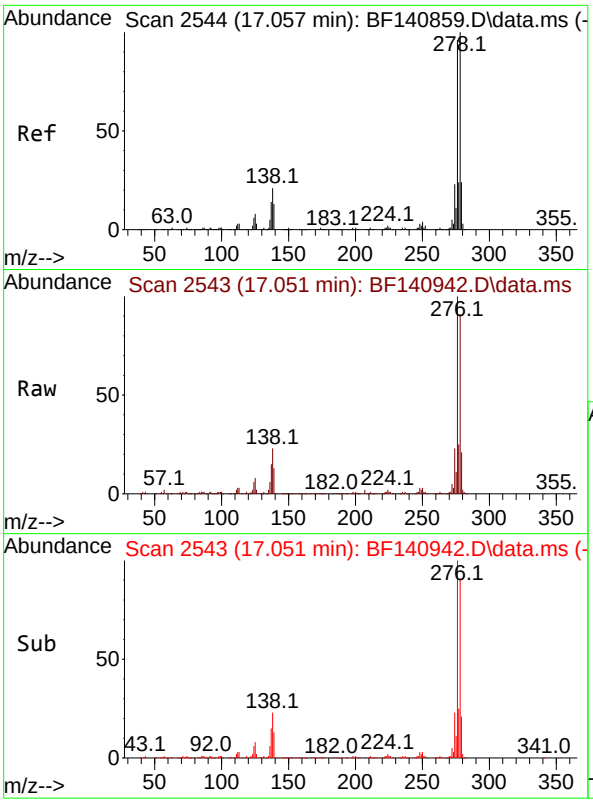


#90
Benzo(a)pyrene
Concen: 39.241 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.012 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:252 Resp: 275845

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.6	7.5	11.3



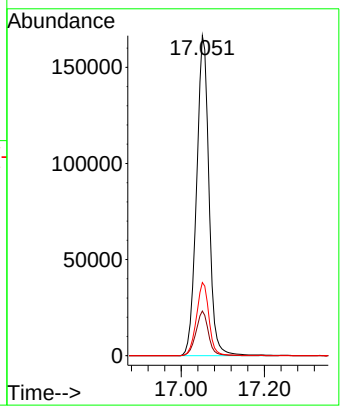


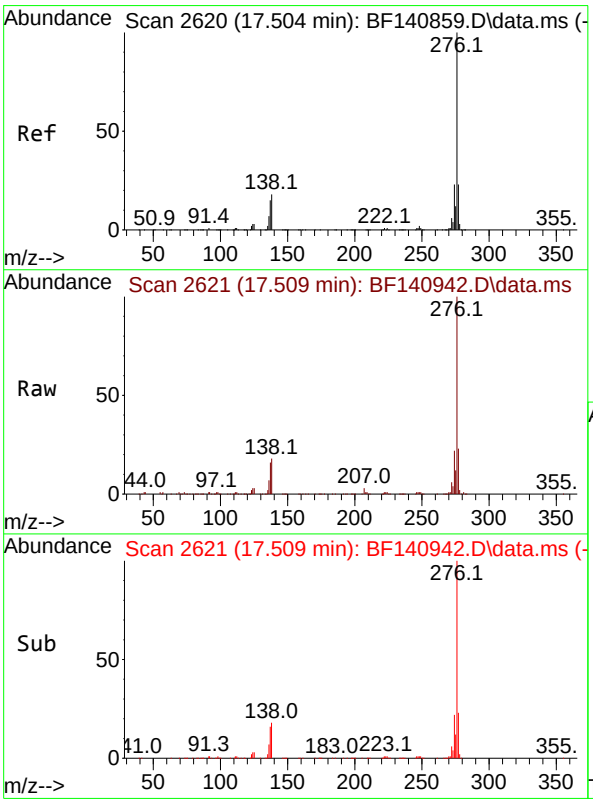
#91
Dibenzo(a,h)anthracene
Concen: 51.627 ng
RT: 17.051 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 345181

Ion	Ratio	Lower	Upper
278	100		
139	13.9	10.6	16.0
279	22.9	19.2	28.8

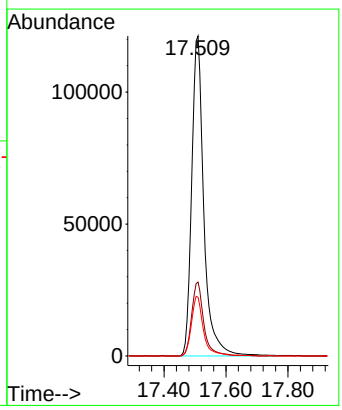




#92
Benzo(g,h,i)perylene
Concen: 48.503 ng
RT: 17.509 min Scan# 2621
Delta R.T. 0.006 min
Lab File: BF140942.D
Acq: 20 Dec 2024 11:15

Tgt Ion:276 Resp: 330062

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	18.4	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140944.D
Acq On : 20 Dec 2024 12:07
Operator : RC/JU
Sample : PB165705BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Quant Time: Dec 20 12:32:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	71247	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	255665	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	141292	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	237962	20.000	ng		0.00
76) Chrysene-d12	14.033	240	149220	20.000	ng		0.00
86) Perylene-d12	15.521	264	113763	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	620574	143.386	ng		0.02
7) Phenol-d6	6.510	99	780279	136.115	ng		0.01
23) Nitrobenzene-d5	7.416	82	468127	91.608	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	225262	134.800	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	1081886	105.274	ng		0.00
79) Terphenyl-d14	12.963	244	1140526	120.524	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.746	88	61392	32.932	ng		99
3) Pyridine	3.522	79	164168	38.026	ng		97
4) n-Nitrosodimethylamine	3.475	42	85503	39.286	ng	#	93
6) Aniline	6.522	93	200558	40.919	ng	#	82
8) 2-Chlorophenol	6.645	128	251463	53.280	ng		98
9) Benzaldehyde	6.410	77	51666	16.266	ng		98
10) Phenol	6.522	94	290791	48.944	ng		96
11) bis(2-Chloroethyl)ether	6.586	93	227090	51.253	ng		98
12) 1,3-Dichlorobenzene	6.786	146	267093	49.664	ng		97
13) 1,4-Dichlorobenzene	6.869	146	268358	49.158	ng		99
14) 1,2-Dichlorobenzene	7.016	146	244910	47.549	ng		99
15) Benzyl Alcohol	7.004	79	202352	49.369	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.116	45	244867	46.913	ng		94
17) 2-Methylphenol	7.122	107	180851	47.995	ng		99
18) Hexachloroethane	7.351	117	87121	42.869	ng		99
19) n-Nitroso-di-n-propyla...	7.263	70	172630	50.203	ng		98
20) 3+4-Methylphenols	7.275	107	254983	51.031	ng	#	84
22) Acetophenone	7.263	105	347847	54.389	ng		94
24) Nitrobenzene	7.439	77	235580	45.000	ng		95
25) Isophorone	7.675	82	424100	49.531	ng		99
26) 2-Nitrophenol	7.751	139	128251	53.191	ng		94
27) 2,4-Dimethylphenol	7.792	122	176373	62.636	ng		99
28) bis(2-Chloroethoxy)met...	7.875	93	265660	49.677	ng		99
29) 2,4-Dichlorophenol	8.004	162	207115	53.277	ng		98
30) 1,2,4-Trichlorobenzene	8.075	180	218640	49.061	ng		98
31) Naphthalene	8.151	128	685399	48.804	ng		99
32) Benzoic acid	7.951	122	85175	31.894	ng		95
33) 4-Chloroaniline	8.210	127	161324	34.586	ng		97
34) Hexachlorobutadiene	8.263	225	140865	46.981	ng		100
35) Caprolactam	8.592	113	40022	34.581	ng		96
36) 4-Chloro-3-methylphenol	8.710	107	201762	46.112	ng		97
37) 2-Methylnaphthalene	8.845	142	464695	50.021	ng		99
38) 1-Methylnaphthalene	8.945	142	438727	47.751	ng		100
40) 1,2,4,5-Tetrachloroben...	9.010	216	234321	53.956	ng		99
41) Hexachlorocyclopentadiene	8.992	237	96370	68.569	ng		99
43) 2,4,6-Trichlorophenol	9.133	196	133695	50.276	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140944.D
Acq On : 20 Dec 2024 12:07
Operator : RC/JU
Sample : PB165705BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Quant Time: Dec 20 12:32:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

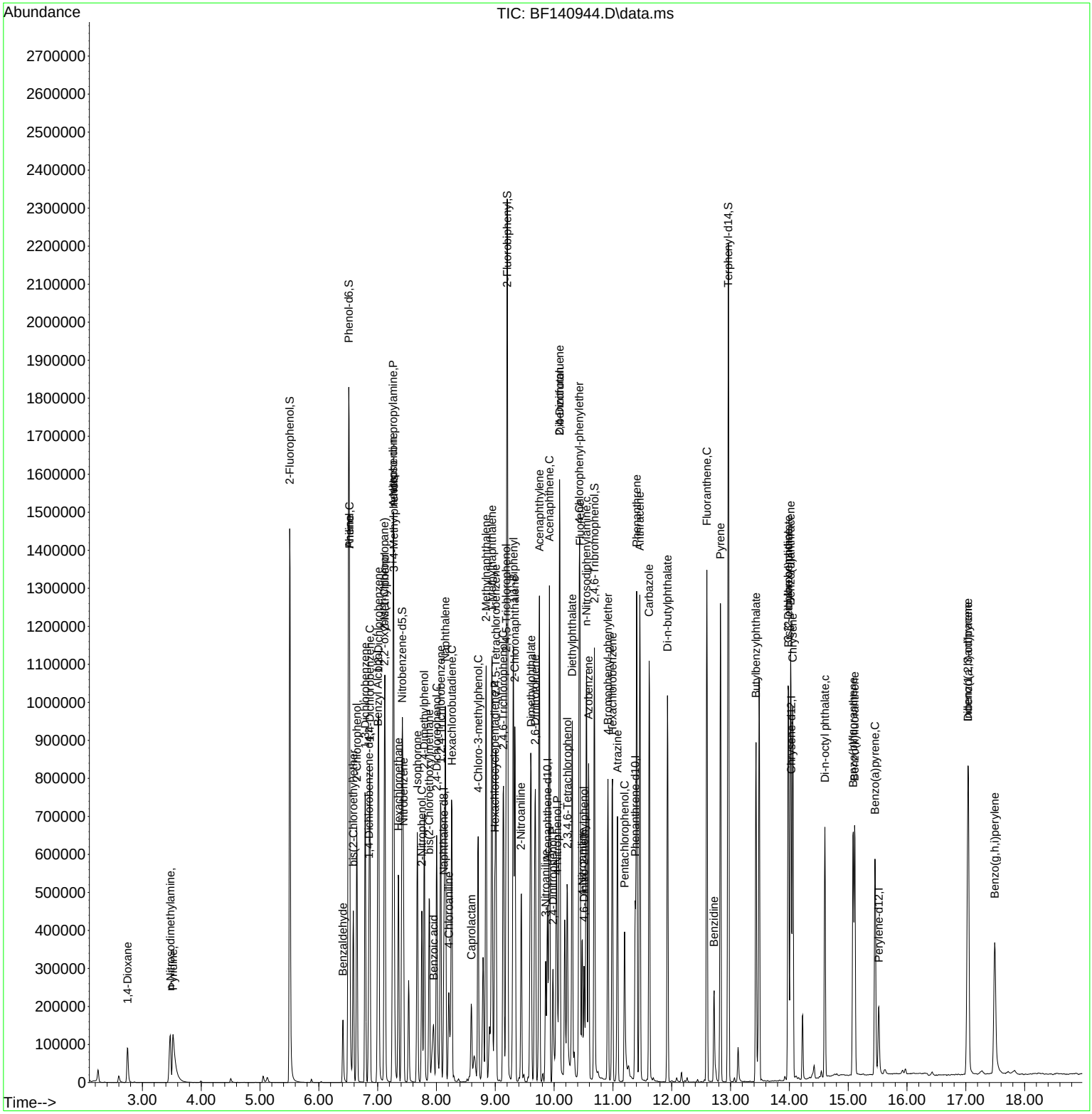
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	143227	49.003	ng	98
46) 1,1'-Biphenyl	9.310	154	552413	49.168	ng	100
47) 2-Chloronaphthalene	9.333	162	417659	48.592	ng	100
48) 2-Nitroaniline	9.439	65	121577	46.835	ng	93
49) Acenaphthylene	9.751	152	681698	53.969	ng	99
50) Dimethylphthalate	9.610	163	496054	49.797	ng	100
51) 2,6-Dinitrotoluene	9.680	165	108898	47.820	ng	97
52) Acenaphthene	9.922	154	430468	53.351	ng	99
53) 3-Nitroaniline	9.857	138	77254	34.184	ng	95
54) 2,4-Dinitrophenol	9.980	184	81264	73.697	ng	90
55) Dibenzofuran	10.092	168	623949	49.905	ng	99
56) 4-Nitrophenol	10.051	139	87740	72.611	ng	94
57) 2,4-Dinitrotoluene	10.092	165	144968	48.383	ng	99
58) Fluorene	10.439	166	477180	46.262	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.227	232	127554	53.557	ng	95
60) Diethylphthalate	10.310	149	534197	51.715	ng	99
61) 4-Chlorophenyl-phenyle...	10.427	204	243755	47.046	ng	95
62) 4-Nitroaniline	10.480	138	93240	39.481	ng	93
63) Azobenzene	10.586	77	431430	44.427	ng	96
65) 4,6-Dinitro-2-methylph...	10.510	198	66725	49.484	ng	96
66) n-Nitrosodiphenylamine	10.551	169	414949	56.716	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	146442	55.009	ng	97
68) Hexachlorobenzene	10.992	284	165233	54.744	ng	98
69) Atrazine	11.080	200	134695	65.919	ng	98
70) Pentachlorophenol	11.198	266	94695	85.812	ng	99
71) Phenanthrene	11.404	178	701422	57.320	ng	99
72) Anthracene	11.457	178	725617	60.212	ng	100
73) Carbazole	11.616	167	673948	57.096	ng	100
74) Di-n-butylphthalate	11.927	149	763567	55.119	ng	100
75) Fluoranthene	12.598	202	786570	55.813	ng	99
77) Benzidine	12.721	184	155983	51.217	ng	100
78) Pyrene	12.827	202	758712	57.177	ng	100
80) Butylbenzylphthalate	13.433	149	297455	60.922	ng	96
81) Benzo(a)anthracene	14.021	228	557901	52.753	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	102996	32.279	ng	98
83) Chrysene	14.057	228	508492	52.875	ng	99
84) Bis(2-ethylhexyl)phtha...	13.986	149	339592	53.941	ng	100
85) Di-n-octyl phthalate	14.604	149	455909	47.866	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	463336	65.266	ng	100
88) Benzo(b)fluoranthene	15.086	252	417172	52.828	ng	100
89) Benzo(k)fluoranthene	15.109	252	360481	53.216	ng	99
90) Benzo(a)pyrene	15.456	252	359761	58.181	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	377716	64.223	ng	99
92) Benzo(g,h,i)perylene	17.492	276	379421	63.386	ng	98

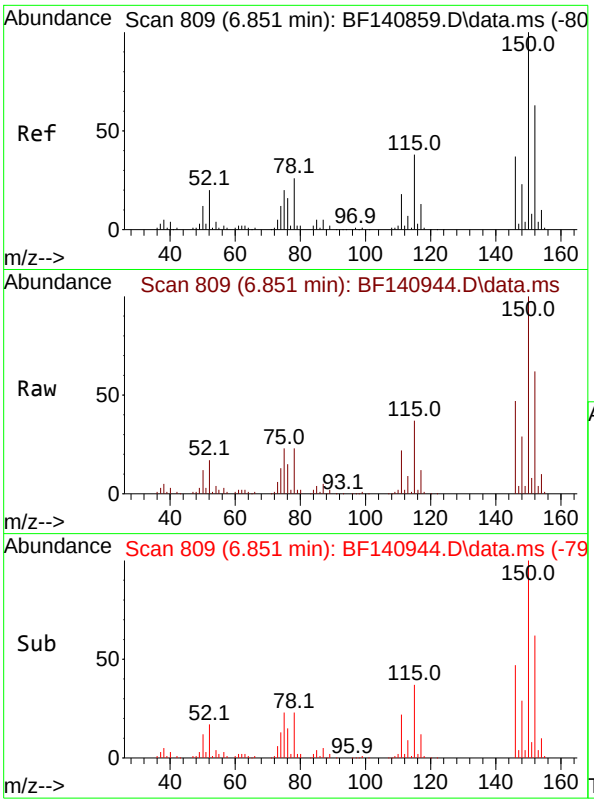
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140944.D
Acq On : 20 Dec 2024 12:07
Operator : RC/JU
Sample : PB165705BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Quant Time: Dec 20 12:32:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



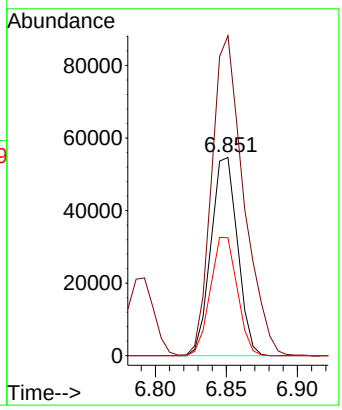


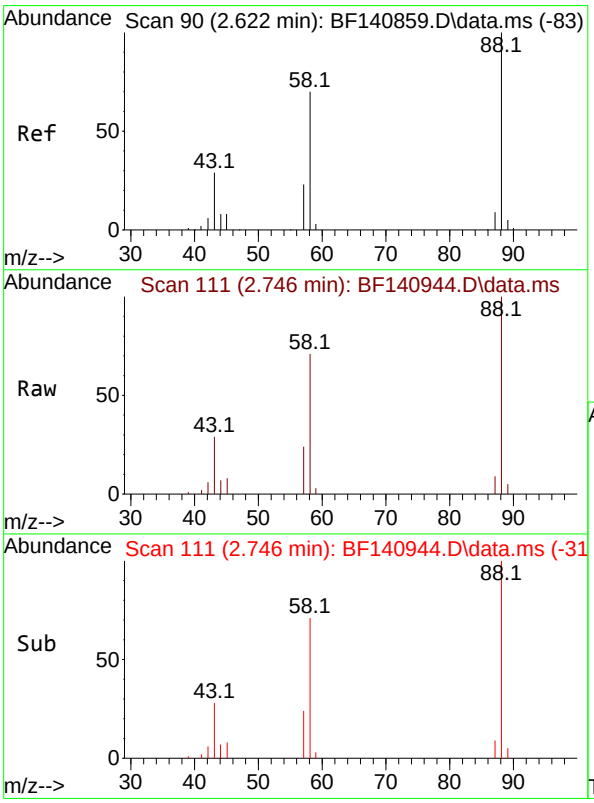
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:152 Resp: 71247

Ion	Ratio	Lower	Upper
152	100		
150	161.4	127.9	191.9
115	59.5	48.0	72.0

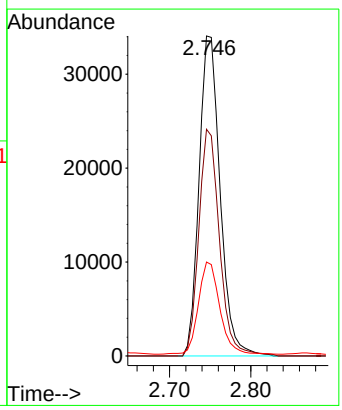


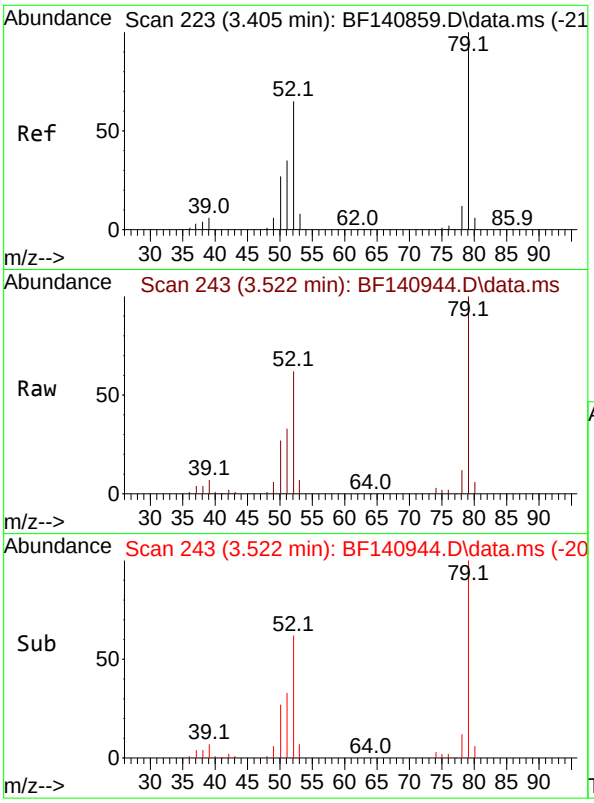


#2
1,4-Dioxane
Concen: 32.932 ng
RT: 2.746 min Scan# 111
Delta R.T. 0.123 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 88 Resp: 61392

Ion	Ratio	Lower	Upper
88	100		
58	69.7	55.8	83.8
43	30.8	22.7	34.1



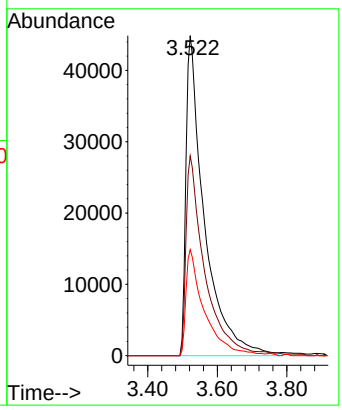


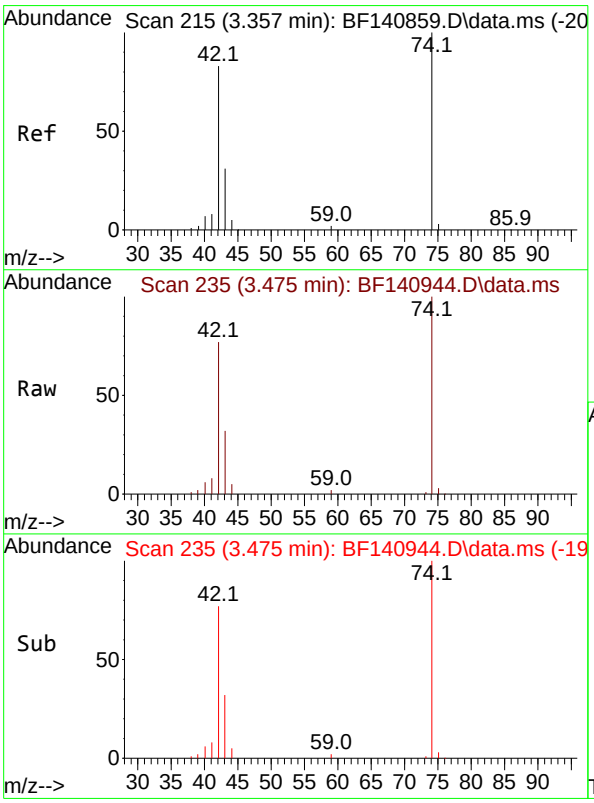
#3
Pyridine
Concen: 38.026 ng
RT: 3.522 min Scan# 24
Delta R.T. 0.117 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 79 Resp: 164168

Ion	Ratio	Lower	Upper
79	100		
52	62.4	51.7	77.5
51	33.1	28.2	42.4

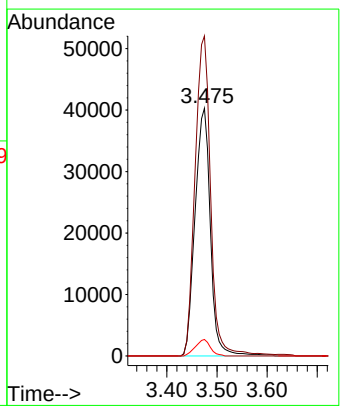


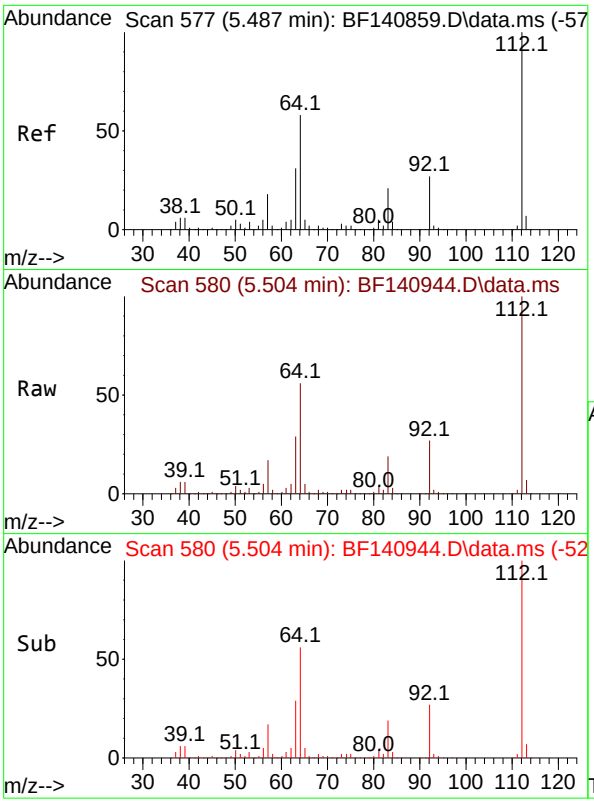


#4
n-Nitrosodimethylamine
Concen: 39.286 ng
RT: 3.475 min Scan# 235
Delta R.T. 0.117 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 42 Resp: 85503

Ion	Ratio	Lower	Upper
42	100		
74	129.2	96.9	145.3
44	6.7	4.4	6.6#



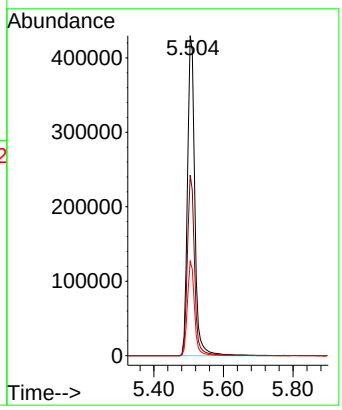


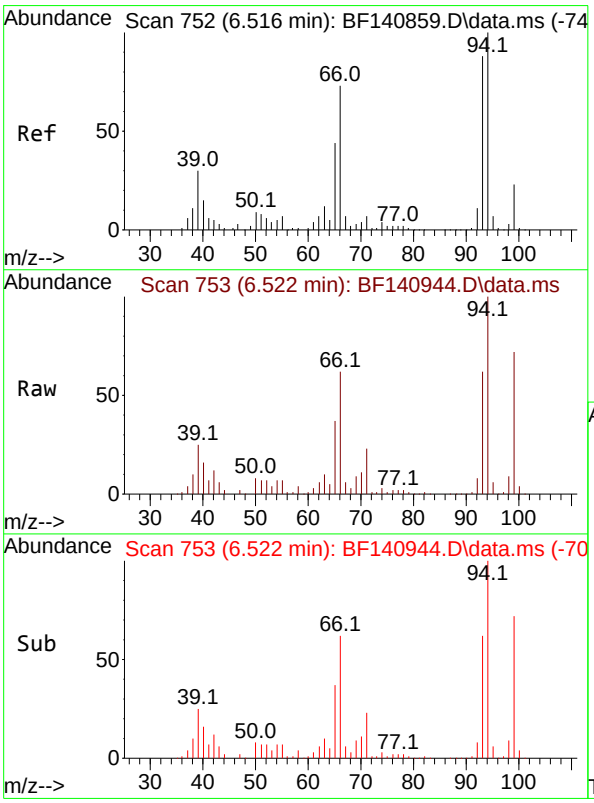
#5
2-Fluorophenol
Concen: 143.386 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.017 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:112 Resp: 620574

Ion	Ratio	Lower	Upper
112	100		
64	56.5	46.1	69.1
63	29.5	24.9	37.3

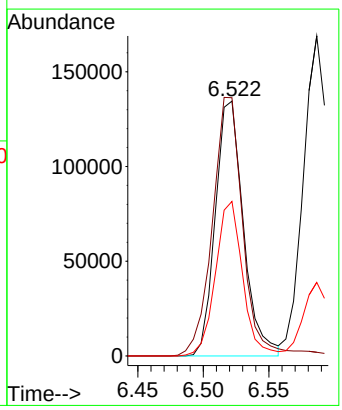


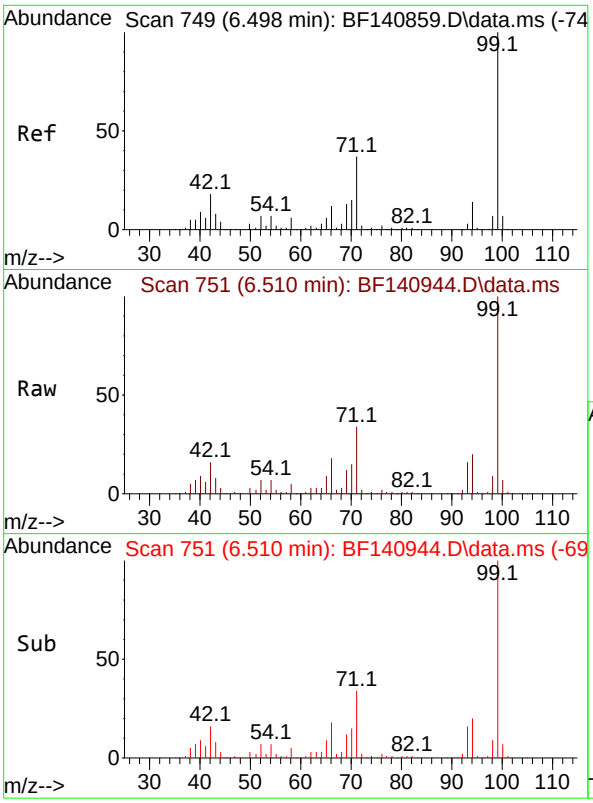


#6
Aniline
Concen: 40.919 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 93 Resp: 200558

Ion	Ratio	Lower	Upper
93	100		
66	101.3	67.0	100.4#
65	60.6	40.4	60.6#



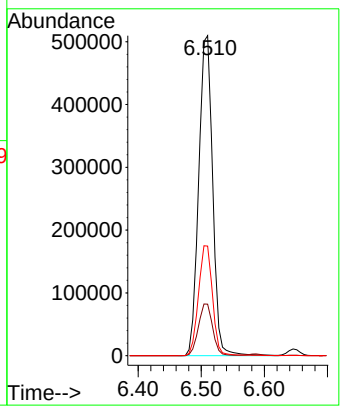


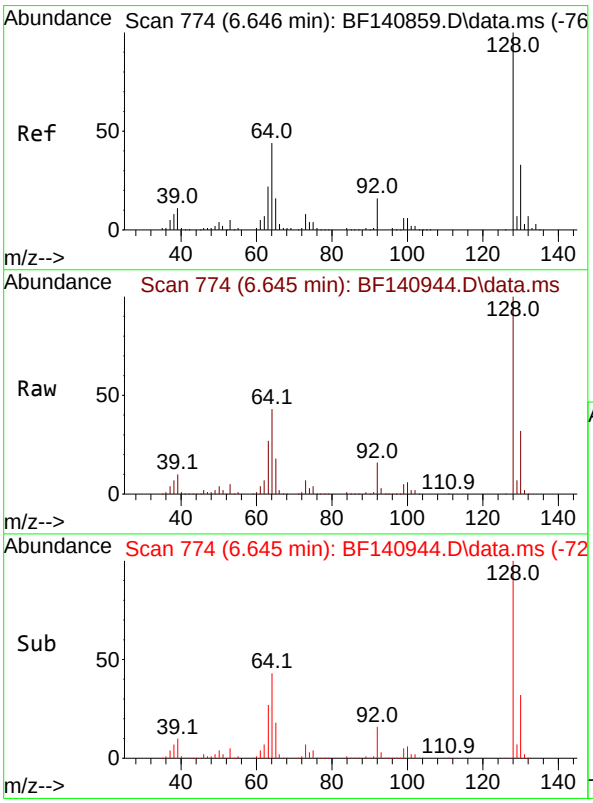
#7
Phenol-d6
Concen: 136.115 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 99 Resp: 780279

Ion	Ratio	Lower	Upper
99	100		
42	16.1	14.3	21.5
71	34.3	29.9	44.9

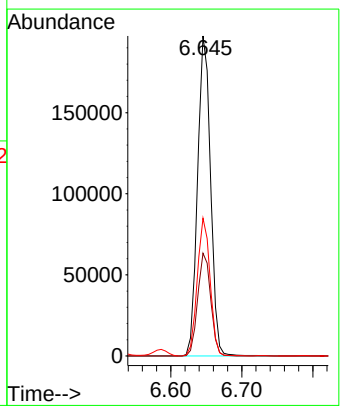


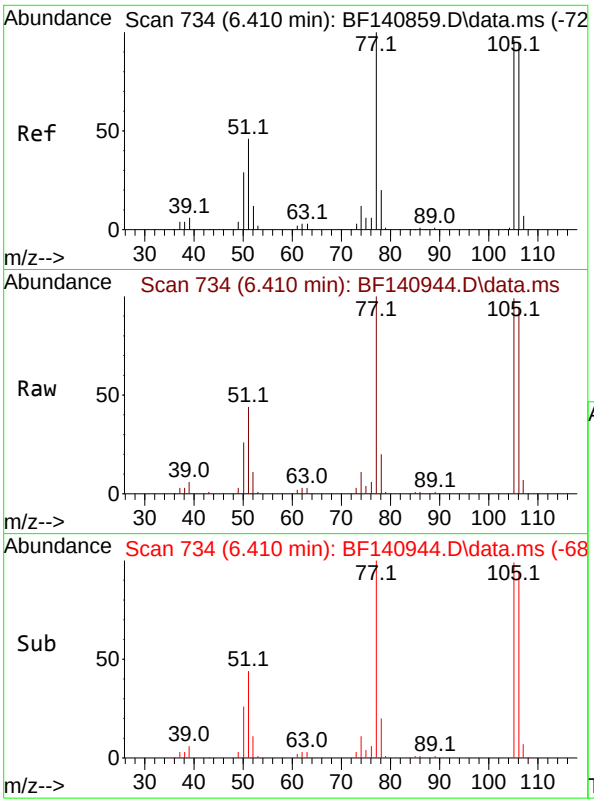


#8
2-Chlorophenol
Concen: 53.280 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:128 Resp: 251463

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.9	52.9
64	43.0	24.3	64.3



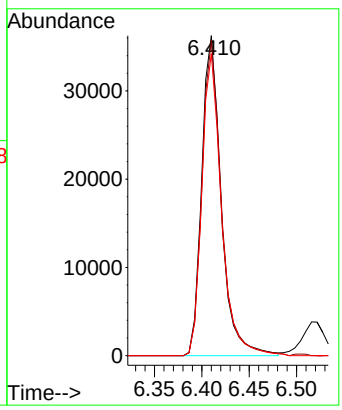


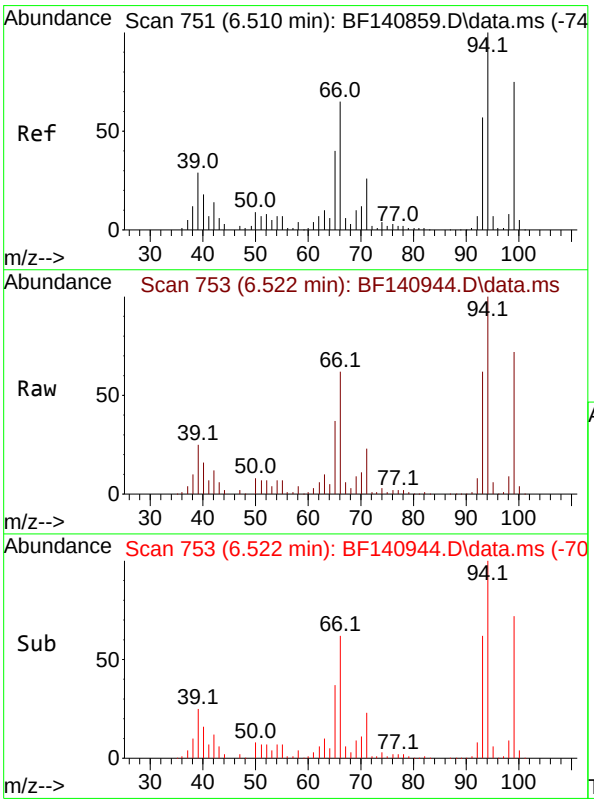
#9
Benzaldehyde
Concen: 16.266 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 77 Resp: 51666

Ion	Ratio	Lower	Upper
77	100		
105	98.5	75.8	115.8
106	94.3	74.1	114.1

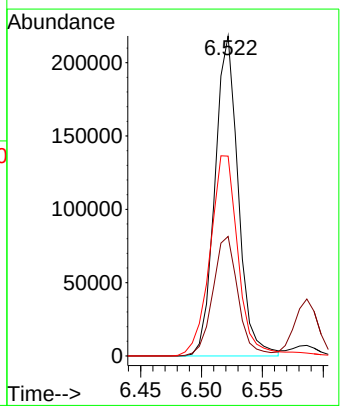


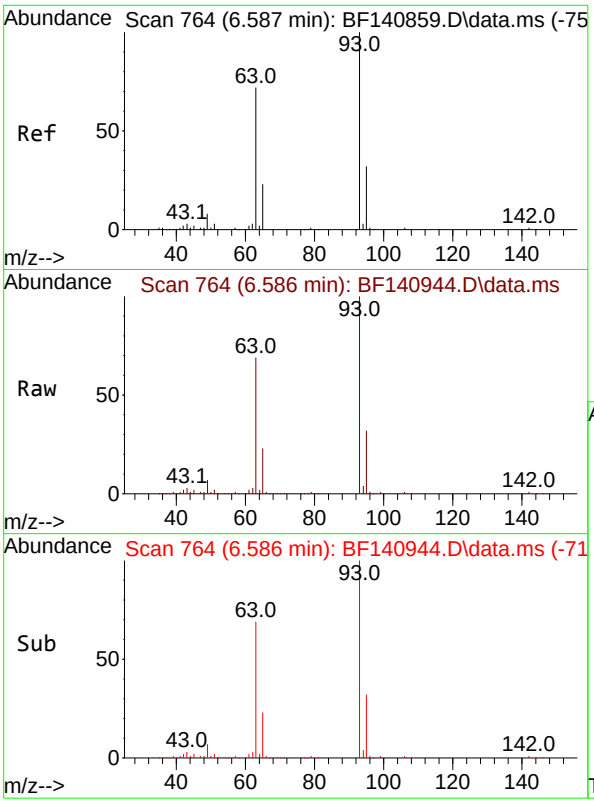


#10
Phenol
Concen: 48.944 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 94 Resp: 290791

Ion	Ratio	Lower	Upper
94	100		
65	37.4	19.9	59.9
66	62.5	45.6	85.6



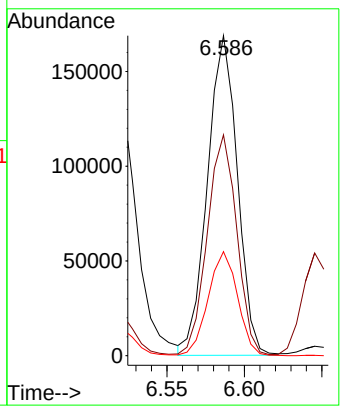


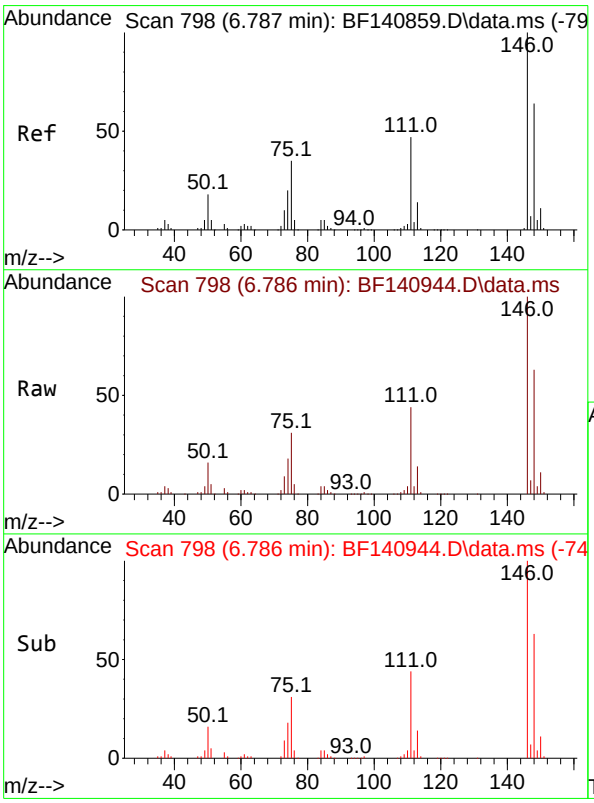
#11
bis(2-Chloroethyl)ether
Concen: 51.253 ng
RT: 6.586 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 93 Resp: 227090

Ion	Ratio	Lower	Upper
93	100		
63	69.0	51.0	91.0
95	32.5	12.0	52.0

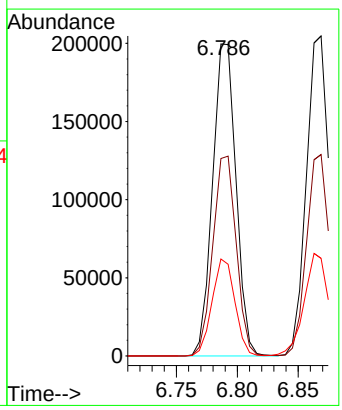


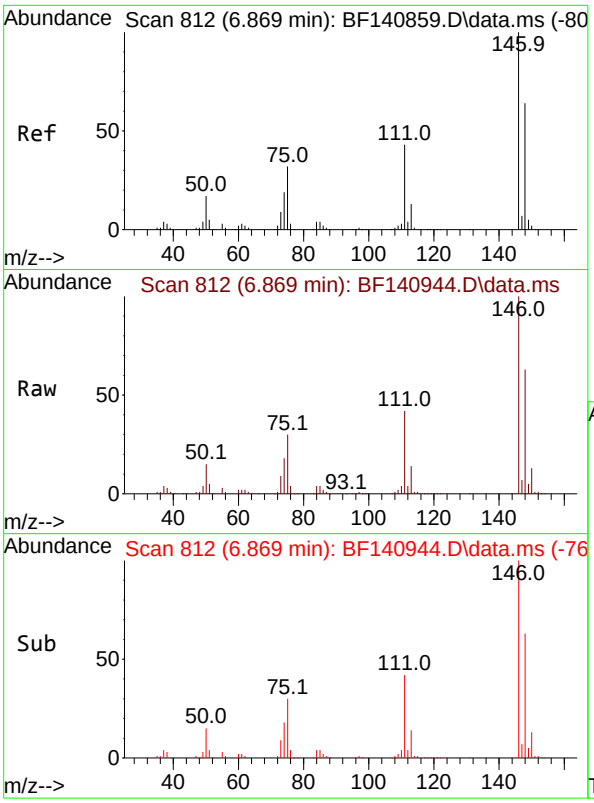


#12
1,3-Dichlorobenzene
Concen: 49.664 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:146 Resp: 267093

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.6
75	31.1	28.1	42.1



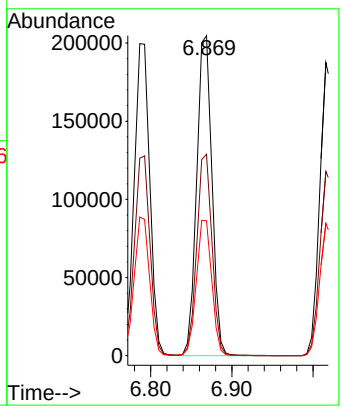


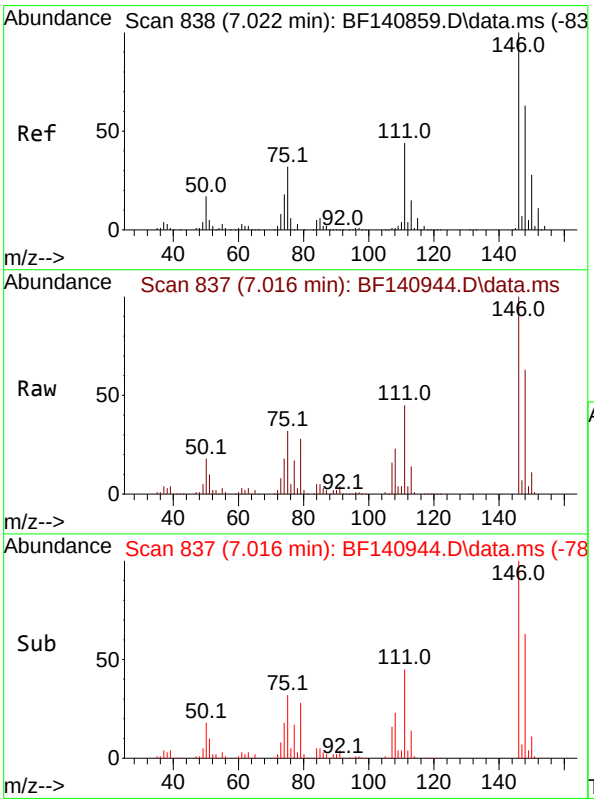
#13
1,4-Dichlorobenzene
Concen: 49.158 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:146 Resp: 268358

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.3	76.9
111	42.2	34.4	51.6

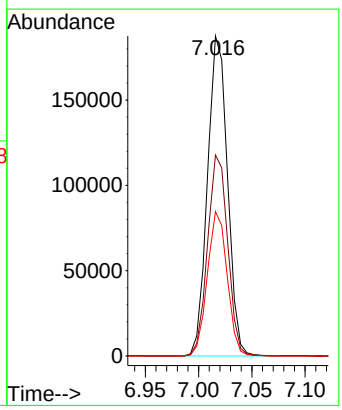


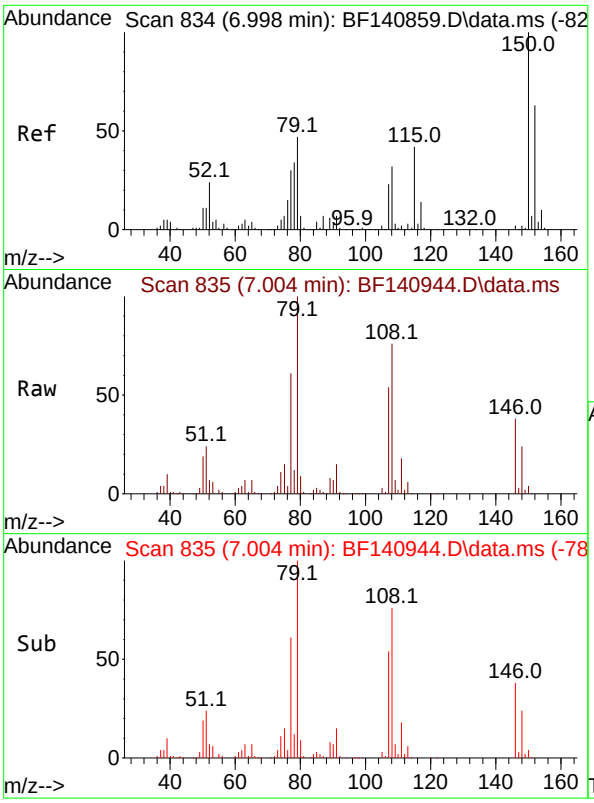


#14
1,2-Dichlorobenzene
Concen: 47.549 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:146 Resp: 244910

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.0	75.0
111	45.1	35.6	53.4



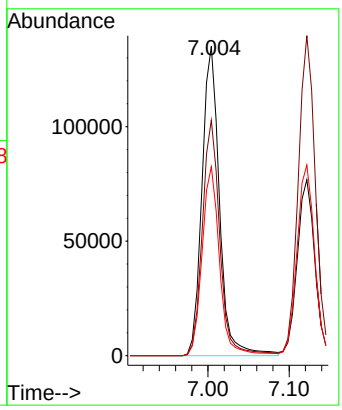


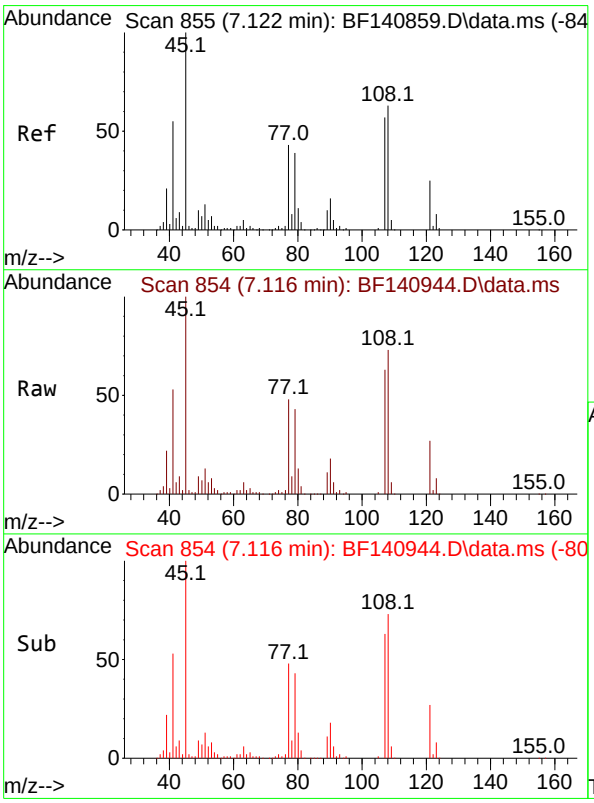
#15
Benzyl Alcohol
Concen: 49.369 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 79 Resp: 202352

Ion	Ratio	Lower	Upper
79	100		
108	76.1	55.1	82.7
77	61.0	50.6	76.0

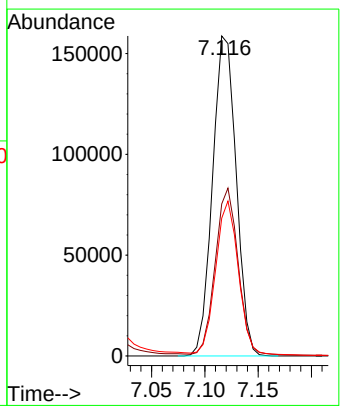


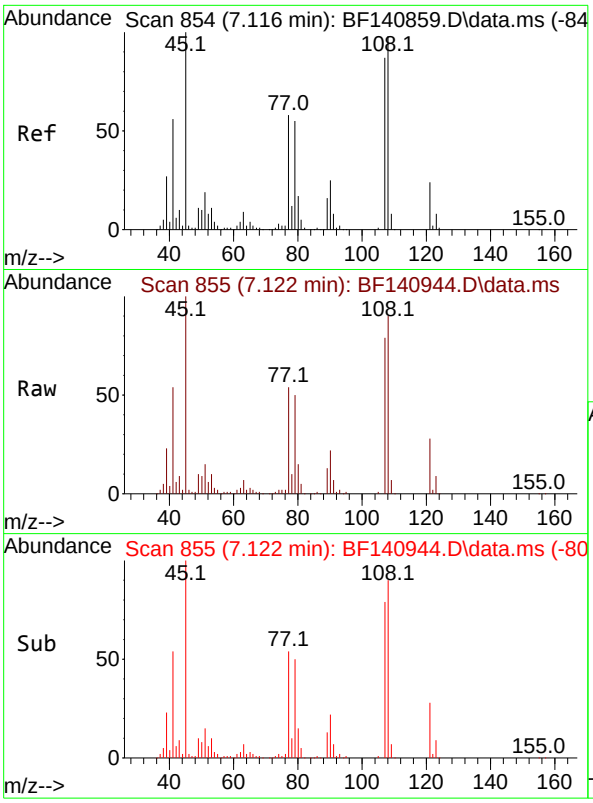


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.913 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 45 Resp: 244867

Ion	Ratio	Lower	Upper
45	100		
77	47.5	23.3	63.3
79	43.1	20.0	60.0



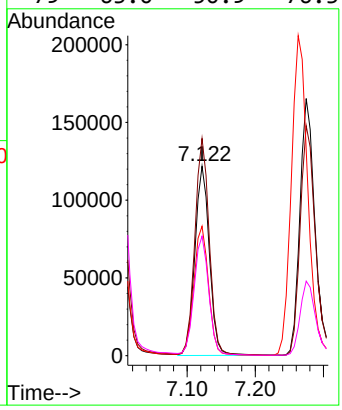


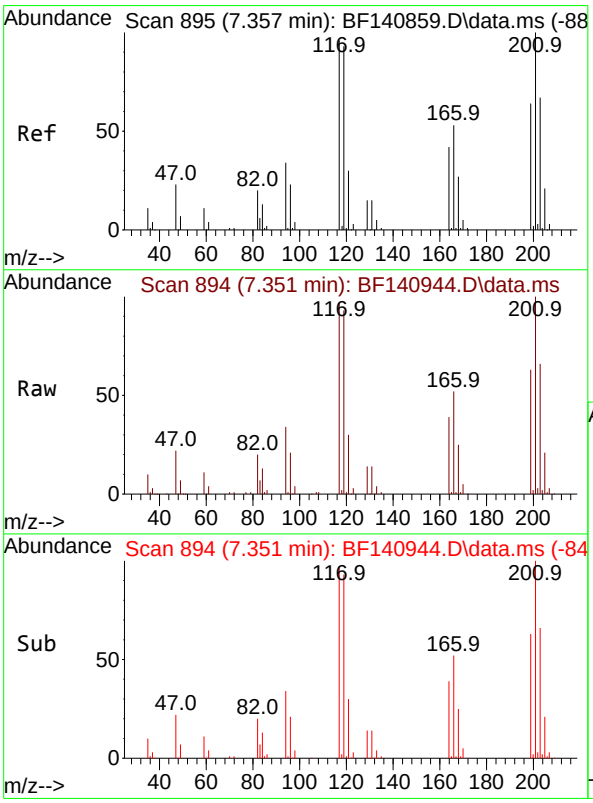
#17
2-Methylphenol
Concen: 47.995 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:107 Resp: 180851

Ion	Ratio	Lower	Upper
107	100		
108	114.6	90.2	135.4
77	68.3	53.8	80.6
79	63.0	50.9	76.3

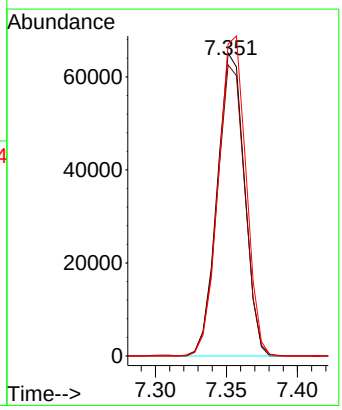


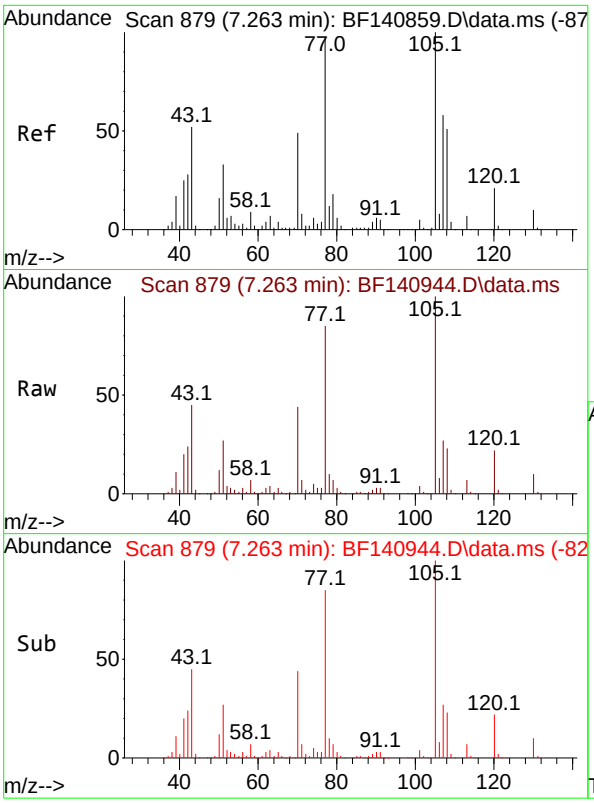


#18
Hexachloroethane
Concen: 42.869 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:117 Resp: 87121

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.4	116.0
201	103.0	83.4	125.0



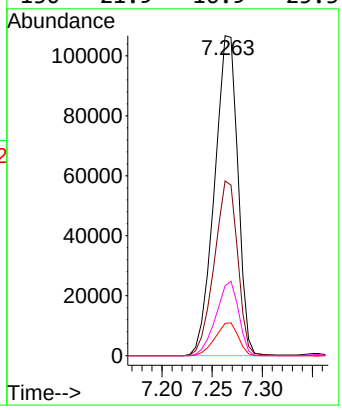


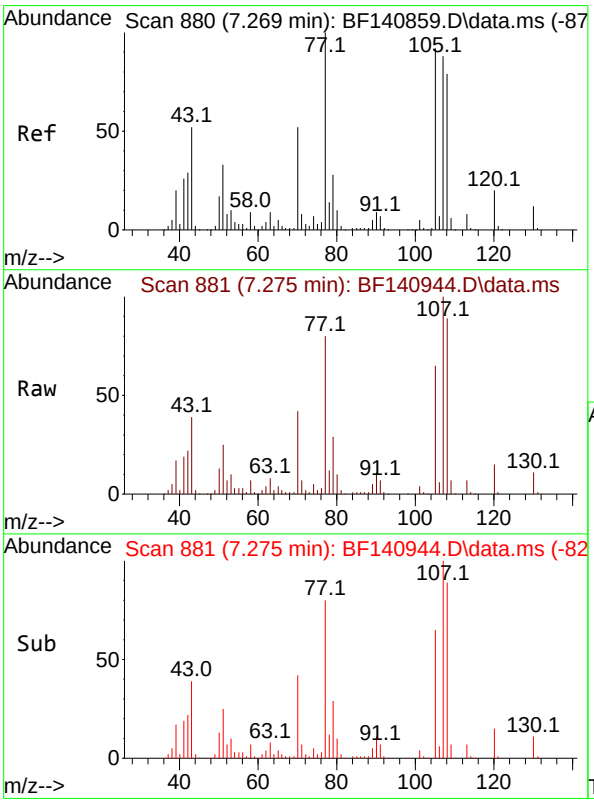
#19
n-Nitroso-di-n-propylamine
Concen: 50.203 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 70 Resp: 172630

Ion	Ratio	Lower	Upper
70	100		
42	54.6	45.3	67.9
101	10.1	8.0	12.0
130	21.9	16.9	25.3

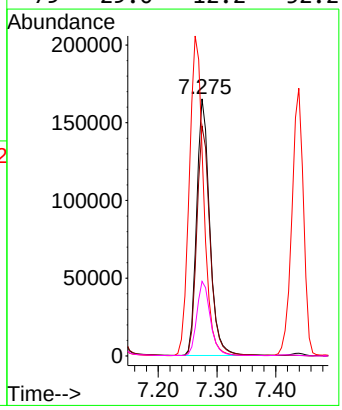


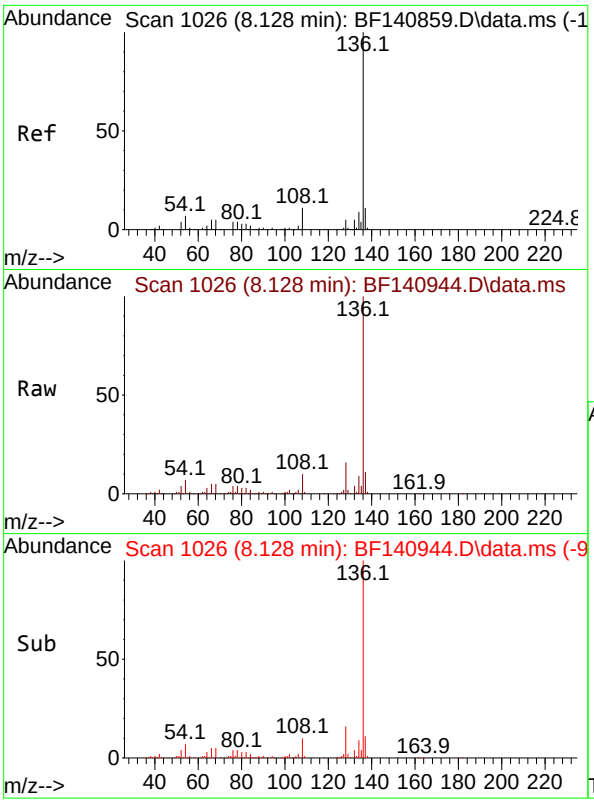


#20
3+4-Methylphenols
Concen: 51.031 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:107 Resp: 254983

Ion	Ratio	Lower	Upper
107	100		
108	89.4	70.1	110.1
77	80.1	94.4	134.4#
79	29.0	12.2	52.2



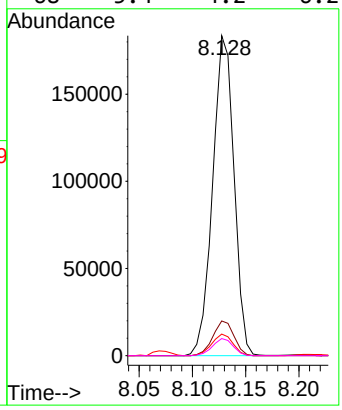


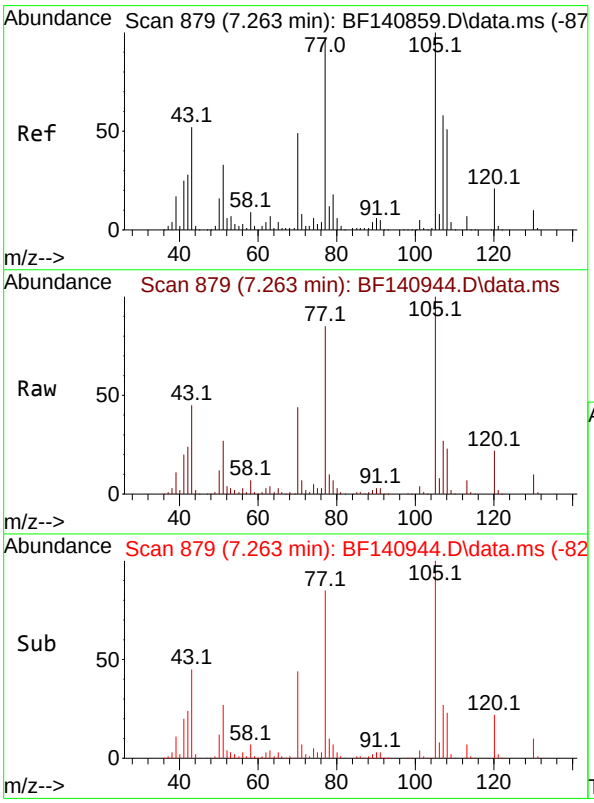
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:136 Resp: 255665

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.8	5.6	8.4
68	5.4	4.2	6.2

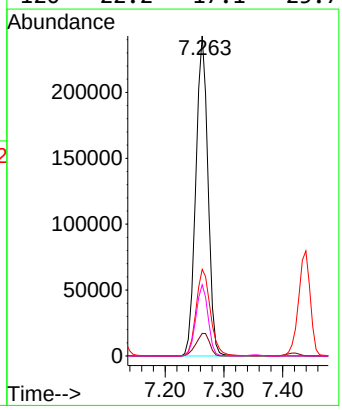


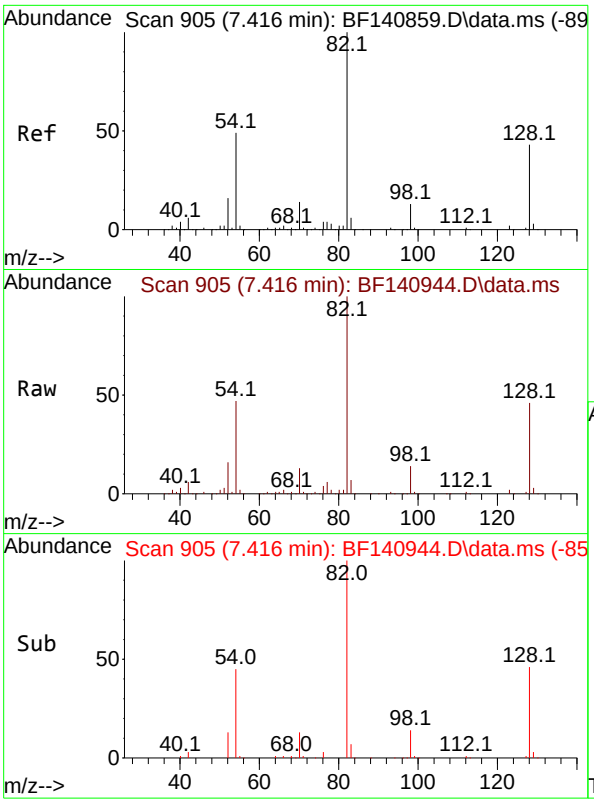


#22
Acetophenone
Concen: 54.389 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:105 Resp: 347847

Ion	Ratio	Lower	Upper
105	100		
71	7.0	6.2	9.4
51	27.0	26.3	39.5
120	22.2	17.1	25.7



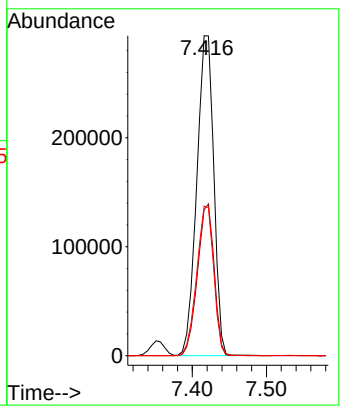


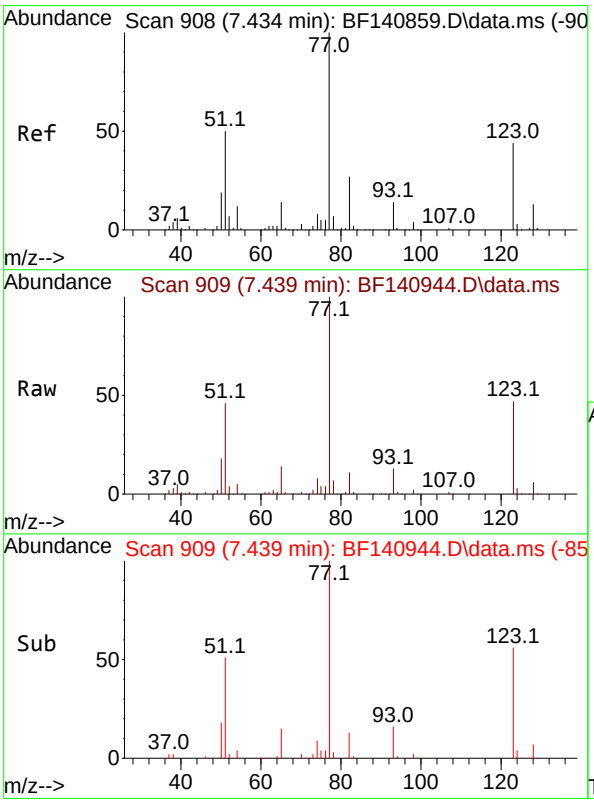
#23
Nitrobenzene-d5
Concen: 91.608 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 82 Resp: 468127

Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.4	51.6
54	46.8	38.8	58.2

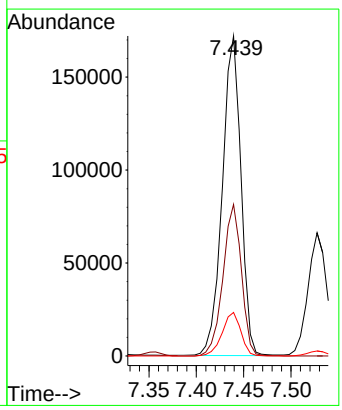


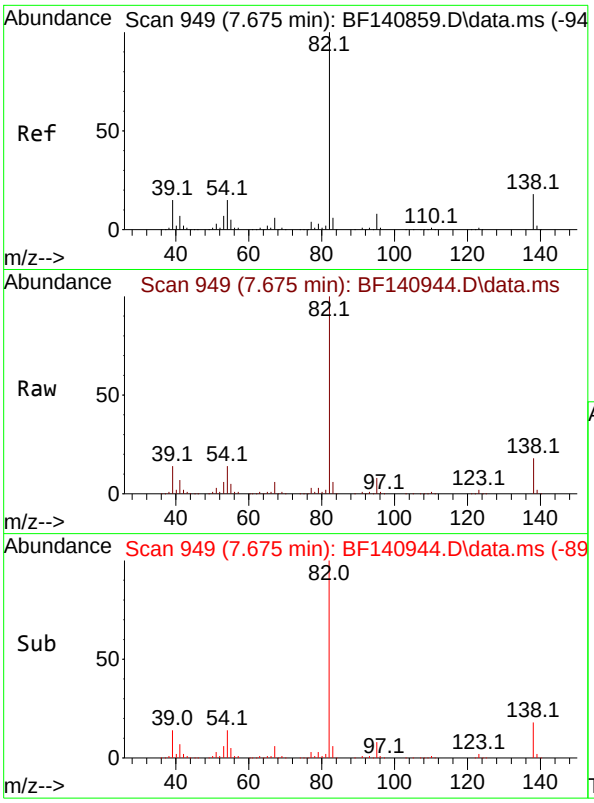


#24
Nitrobenzene
Concen: 45.000 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 77 Resp: 235580

Ion	Ratio	Lower	Upper
77	100		
123	47.3	35.0	52.4
65	13.6	11.4	17.0



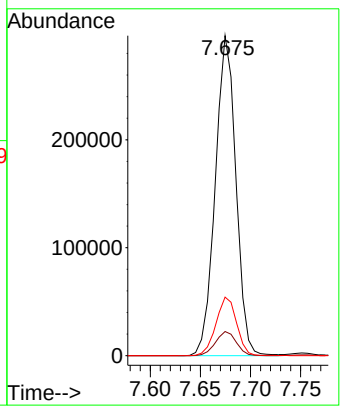


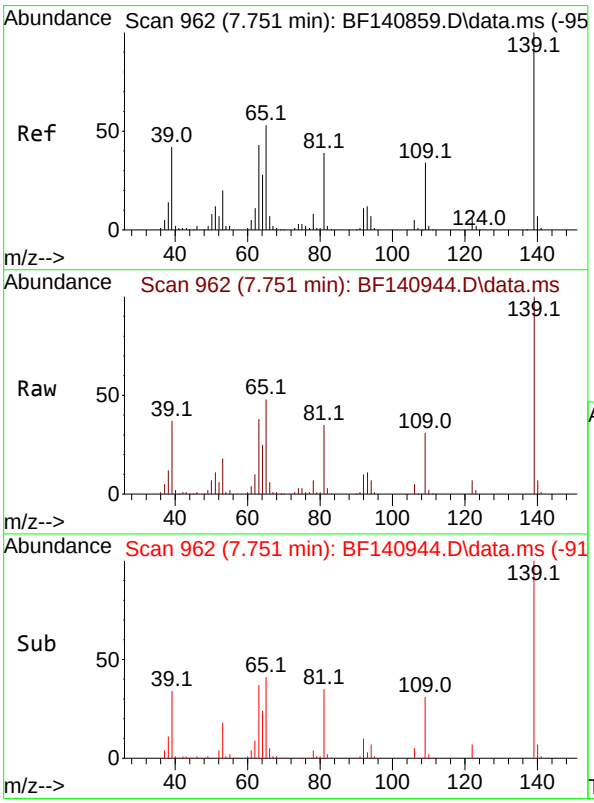
#25
Isophorone
Concen: 49.531 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 82 Resp: 424100

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.3	9.5
138	18.3	14.1	21.1

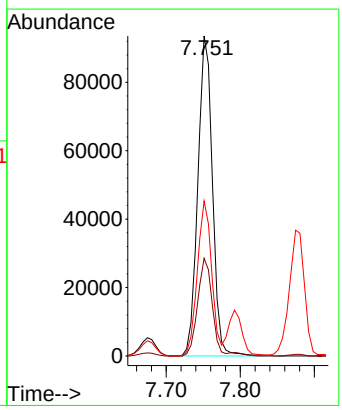


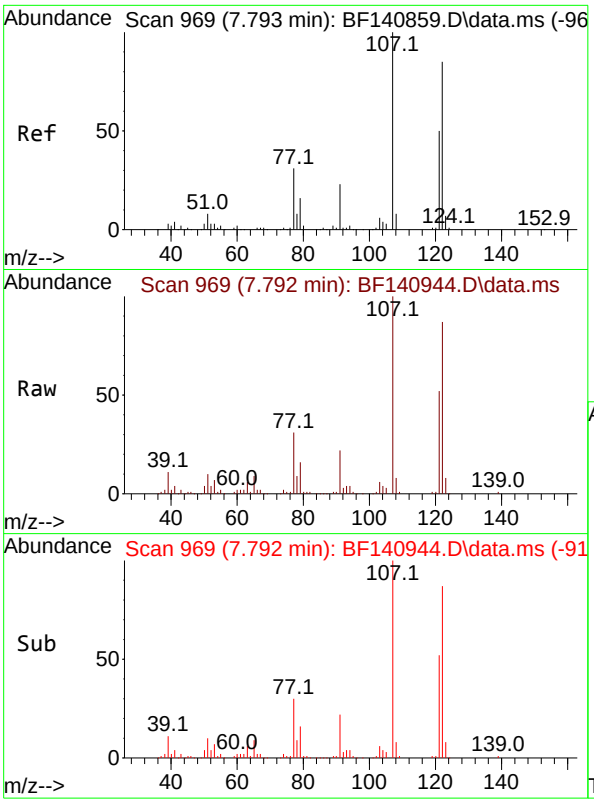


#26
2-Nitrophenol
Concen: 53.191 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:139 Resp: 128251

Ion	Ratio	Lower	Upper
139	100		
109	30.5	26.9	40.3
65	48.4	42.6	64.0



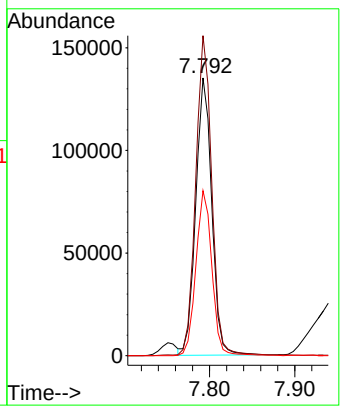


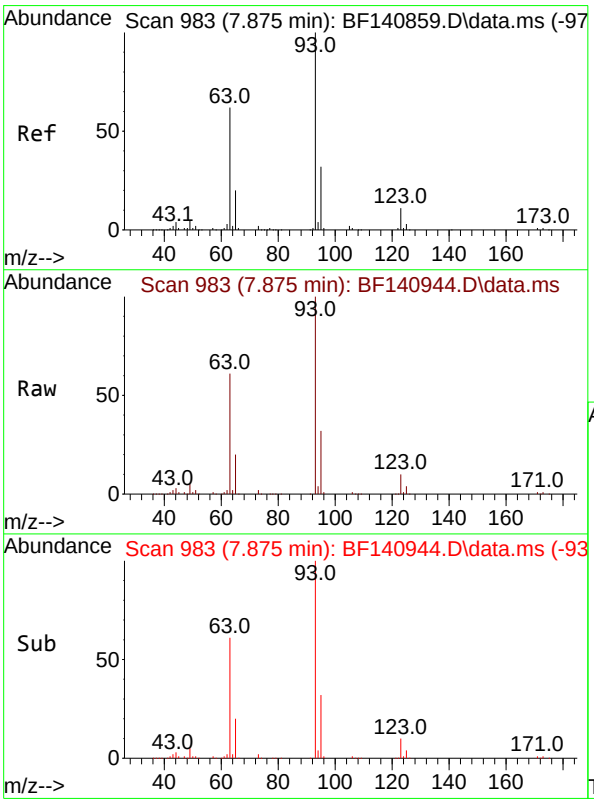
#27
2,4-Dimethylphenol
Concen: 62.636 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:122 Resp: 176373

Ion	Ratio	Lower	Upper
122	100		
107	115.2	92.6	139.0
121	59.3	45.8	68.8

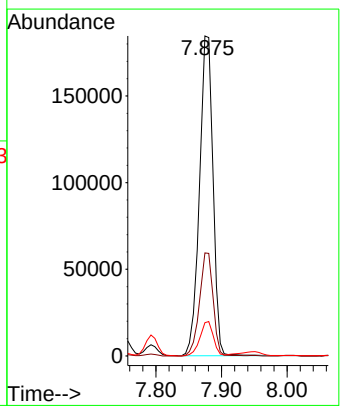


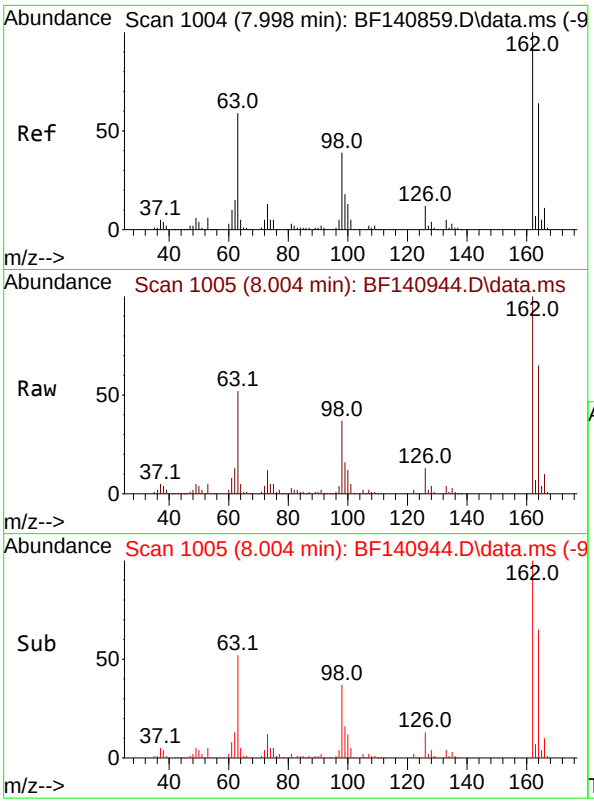


#28
bis(2-Chloroethoxy)methane
Concen: 49.677 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 93 Resp: 265660

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.3	37.9
123	10.4	8.6	13.0



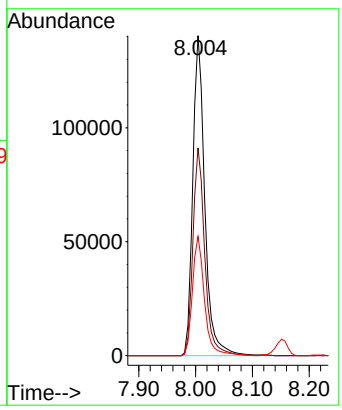


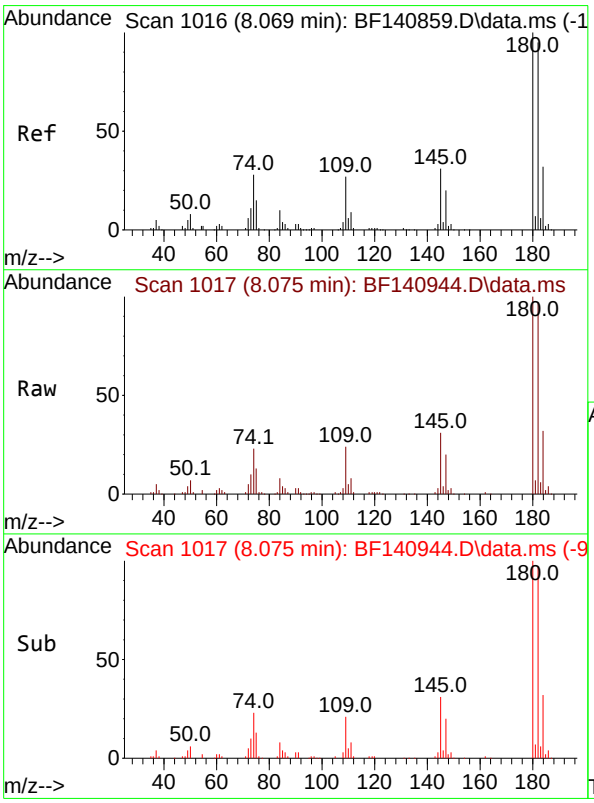
#29
2,4-Dichlorophenol
Concen: 53.277 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:162 Resp: 207115

Ion	Ratio	Lower	Upper
162	100		
164	64.9	43.7	83.7
98	37.3	18.6	58.6

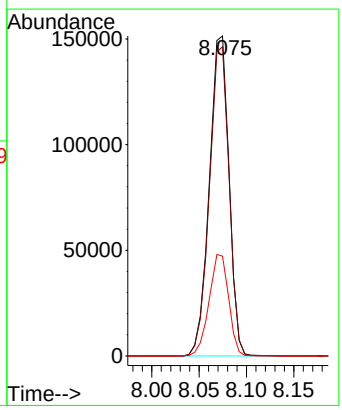


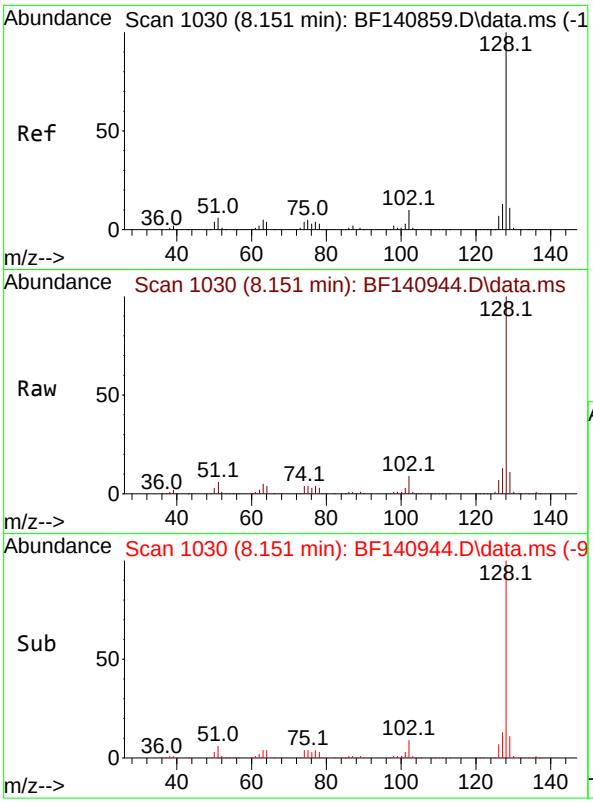


#30
1,2,4-Trichlorobenzene
Concen: 49.061 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:180 Resp: 218640

Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.8	113.6
145	31.2	25.2	37.8



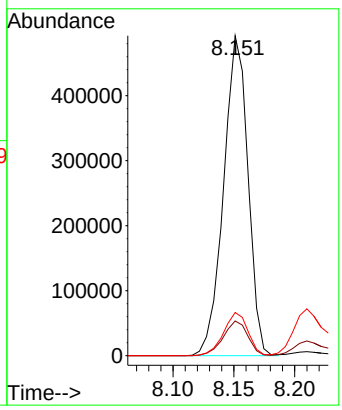


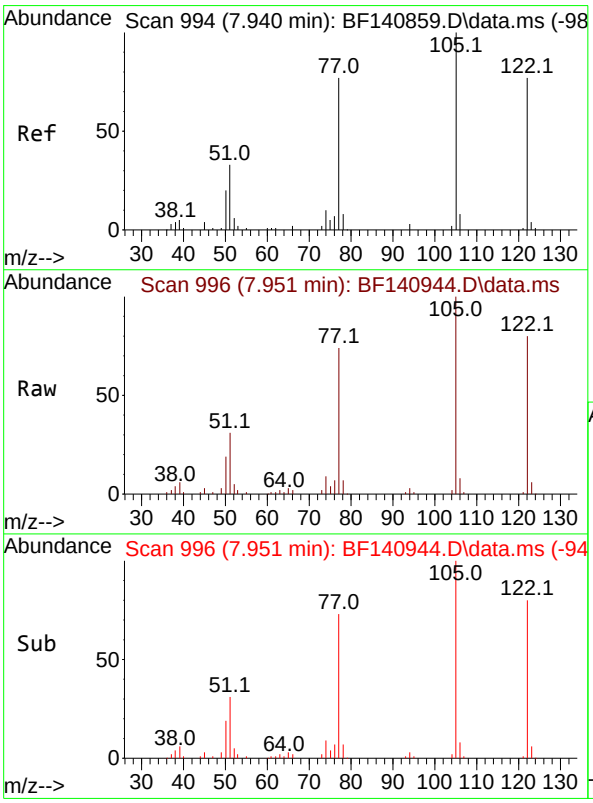
#31
Naphthalene
Concen: 48.804 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:128 Resp: 685399

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.5	10.6	16.0

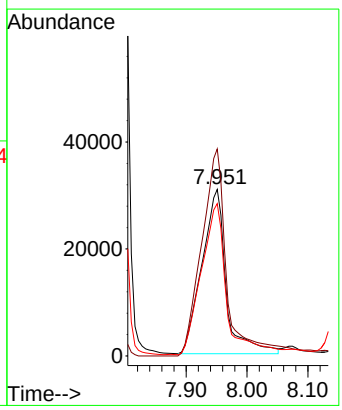


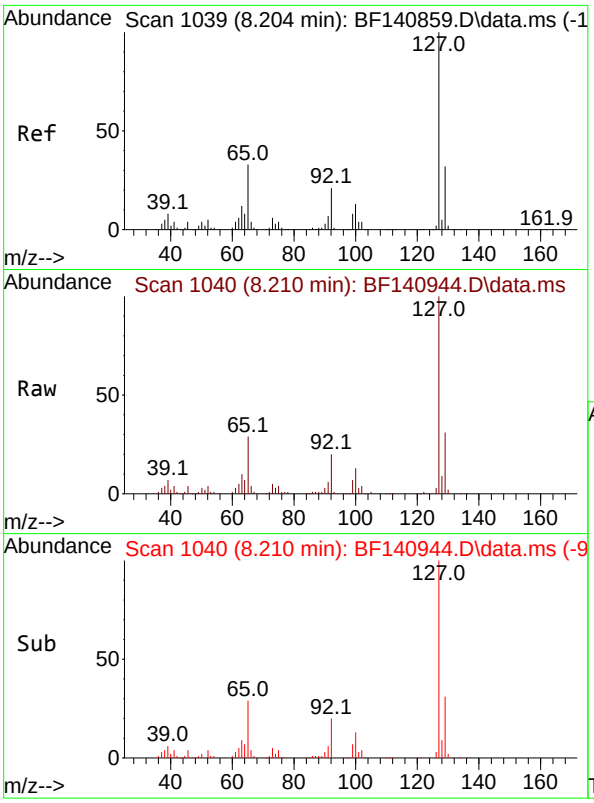


#32
Benzoic acid
Concen: 31.894 ng
RT: 7.951 min Scan# 996
Delta R.T. 0.011 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:122 Resp: 85175

Ion	Ratio	Lower	Upper
122	100		
105	124.3	108.3	148.3
77	91.4	78.8	118.8



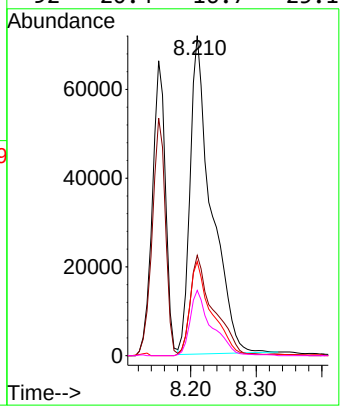


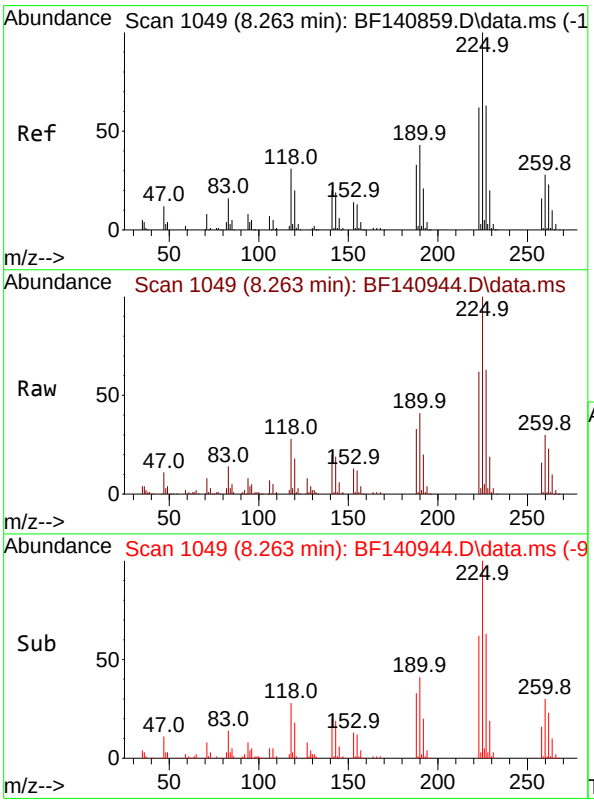
#33
4-Chloroaniline
Concen: 34.586 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:127 Resp: 161324

Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.0	39.0
65	29.4	26.0	39.0
92	20.4	16.7	25.1

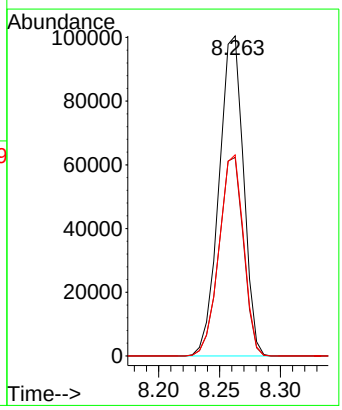


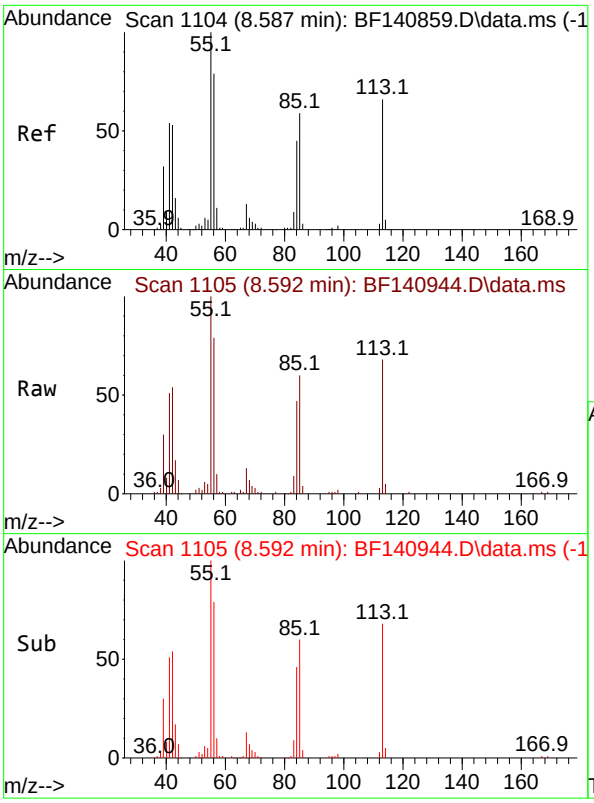


#34
Hexachlorobutadiene
Concen: 46.981 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:225 Resp: 140865

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.6	74.4
227	62.8	50.7	76.1



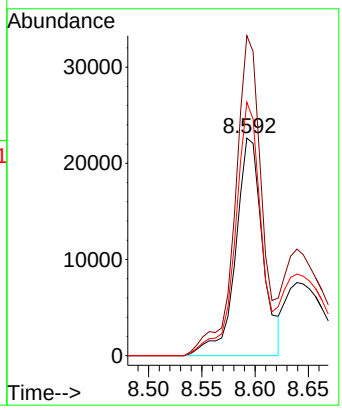


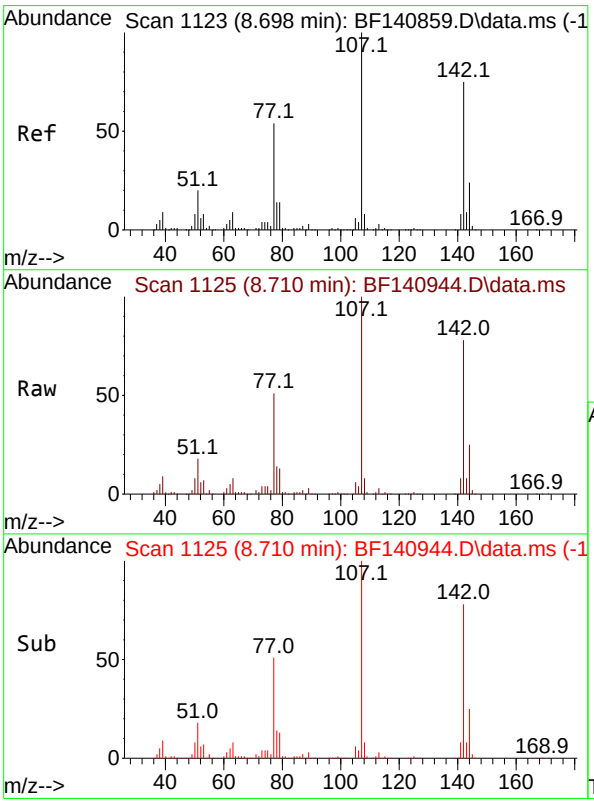
#35
Caprolactam
Concen: 34.581 ng
RT: 8.592 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:113 Resp: 40022

Ion	Ratio	Lower	Upper
113	100		
55	147.0	132.3	172.3
56	116.4	100.3	140.3

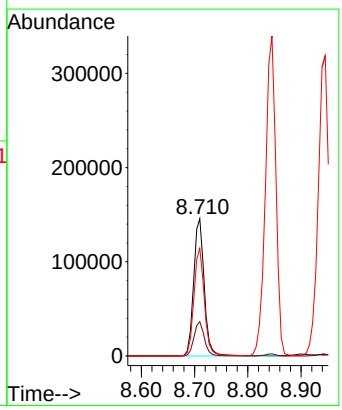


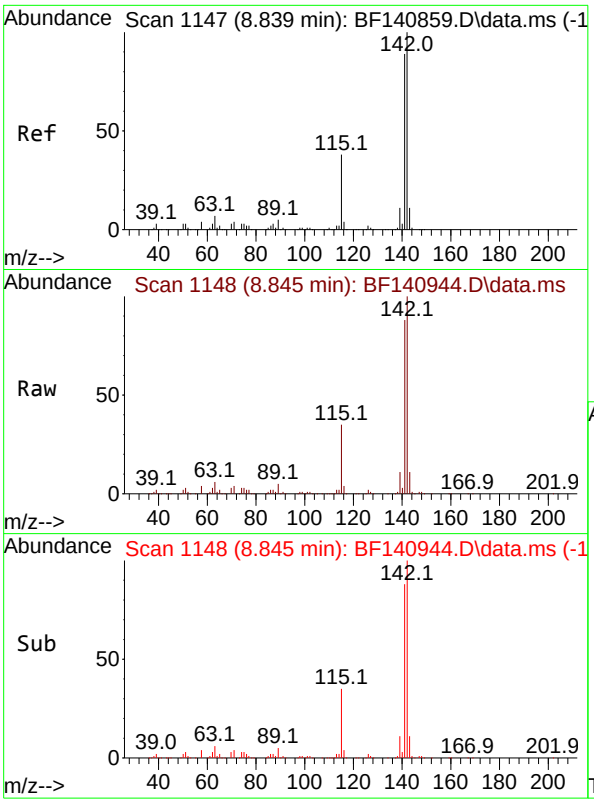


#36
4-Chloro-3-methylphenol
Concen: 46.112 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:107 Resp: 201762

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.4	29.2
142	78.3	60.3	90.5



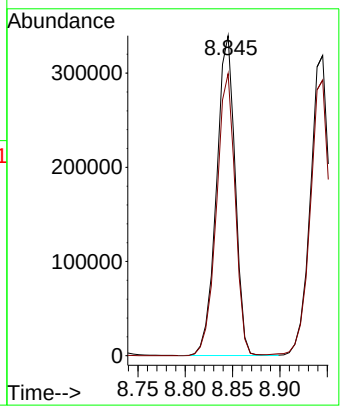


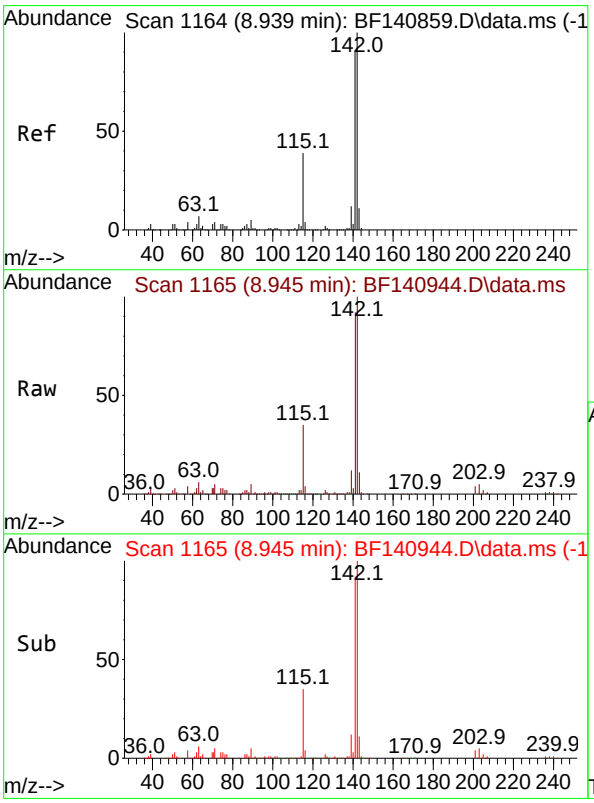
#37
2-Methylnaphthalene
Concen: 50.021 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:142 Resp: 464695

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.0	106.6

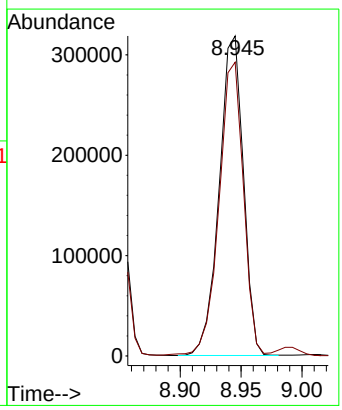


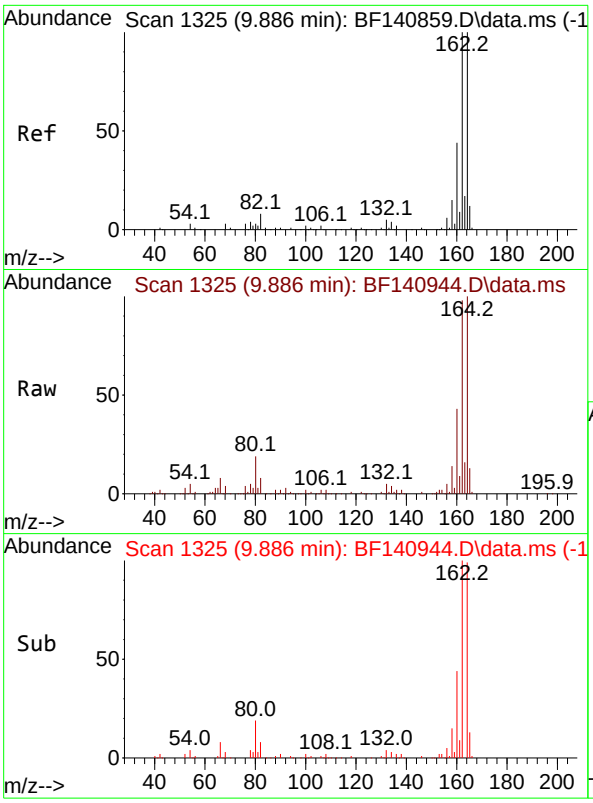


#38
1-Methylnaphthalene
Concen: 47.751 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:142 Resp: 438727

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.0



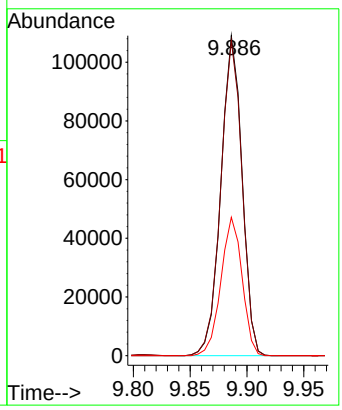


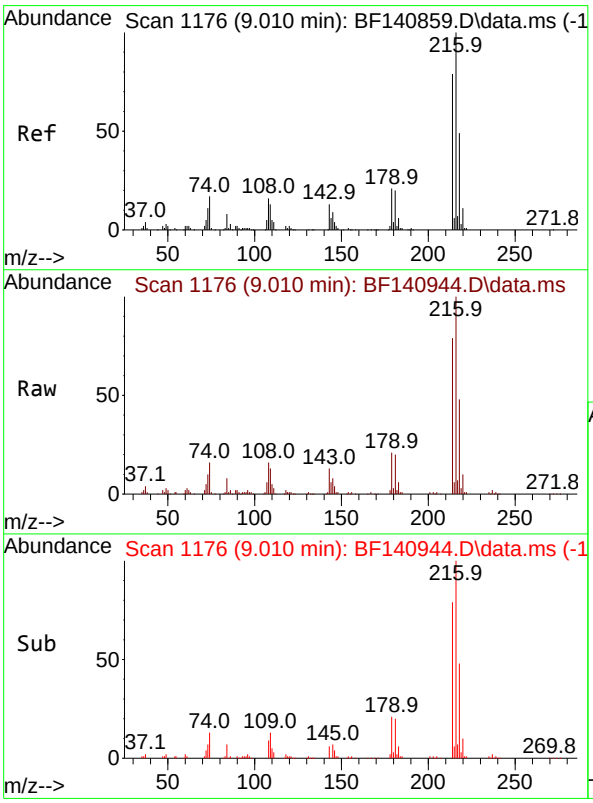
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:164 Resp: 141292

Ion	Ratio	Lower	Upper
164	100		
162	98.5	79.9	119.9
160	43.2	35.2	52.8

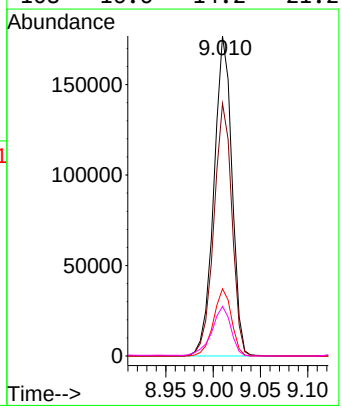


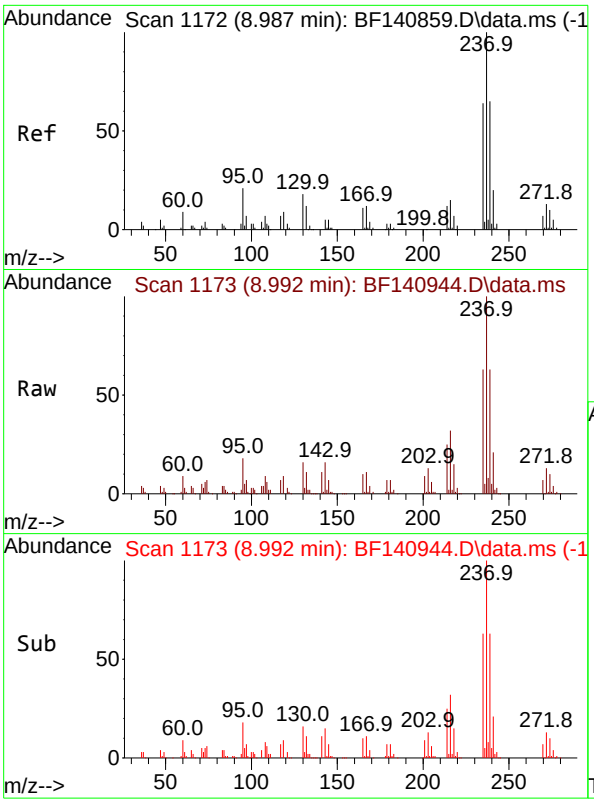


#40
1,2,4,5-Tetrachlorobenzene
Concen: 53.956 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:216 Resp: 234321

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.6	95.4
179	20.8	17.0	25.4
108	16.6	14.2	21.2



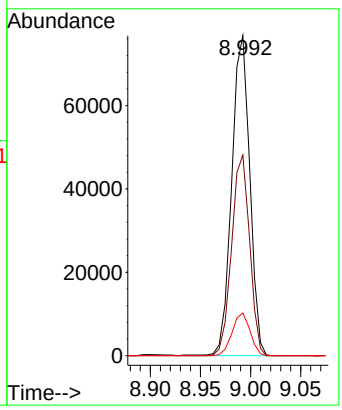


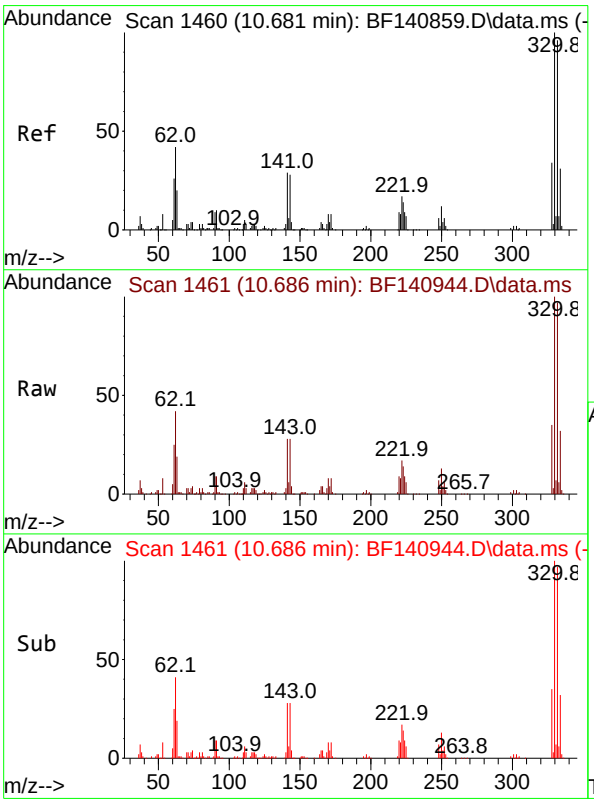
#41
Hexachlorocyclopentadiene
Concen: 68.569 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:237 Resp: 96370

Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.7	83.7
272	13.3	0.0	32.9

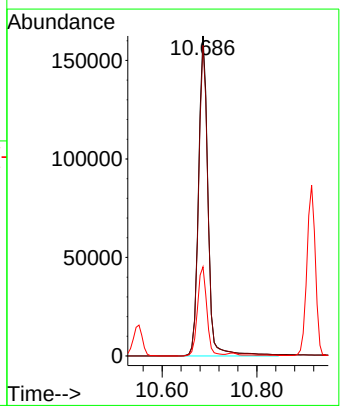


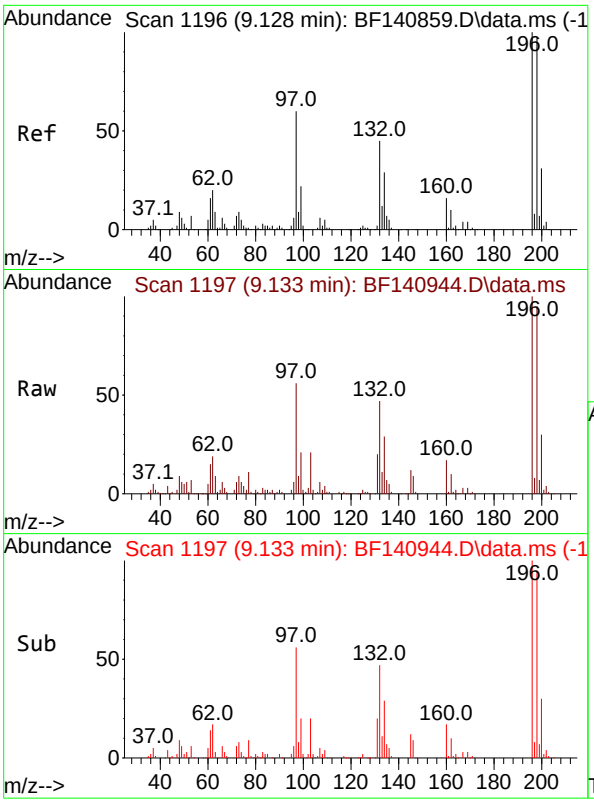


#42
2,4,6-Tribromophenol
Concen: 134.800 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:330 Resp: 225262

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.2	114.4
141	27.4	24.9	37.3



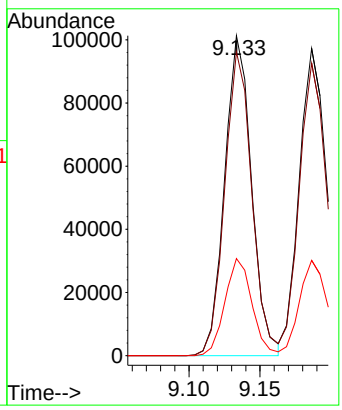


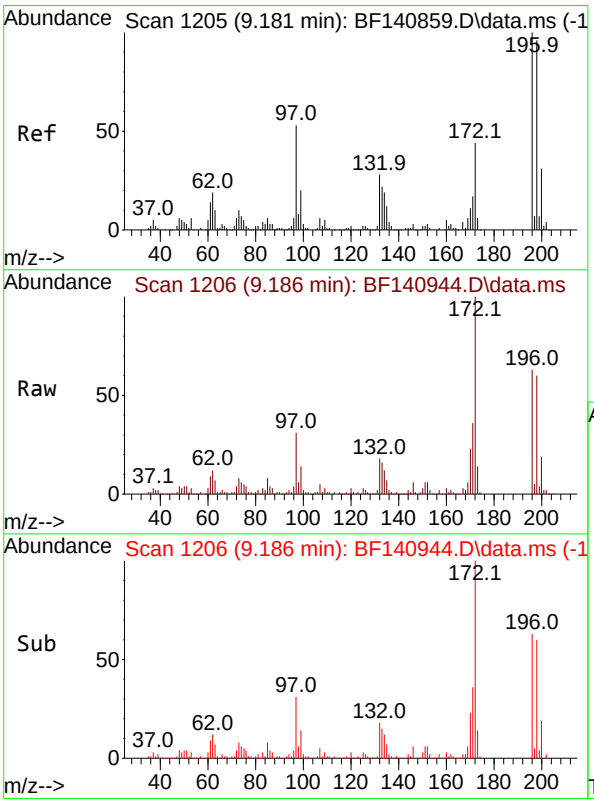
#43
2,4,6-Trichlorophenol
Concen: 50.276 ng
RT: 9.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:196 Resp: 133695

Ion	Ratio	Lower	Upper
196	100		
198	94.9	77.4	116.0
200	30.3	24.5	36.7

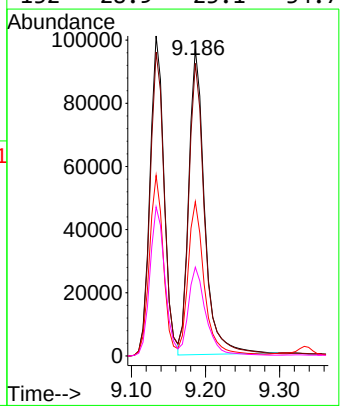


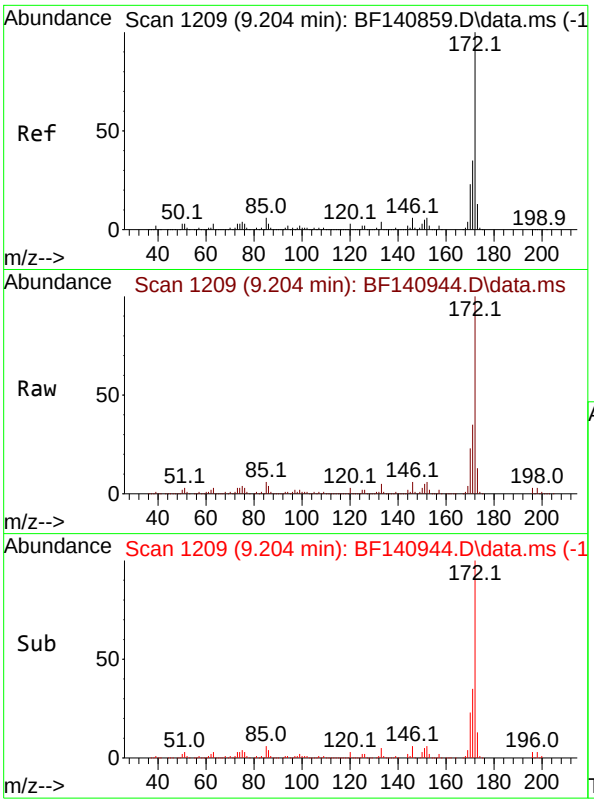


#44
2,4,5-Trichlorophenol
Concen: 49.003 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:196 Resp: 143227

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.2	115.8
97	50.2	42.2	63.4
132	28.9	23.1	34.7



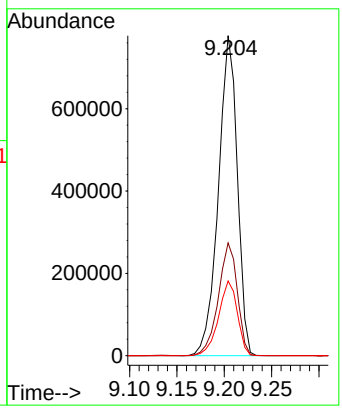


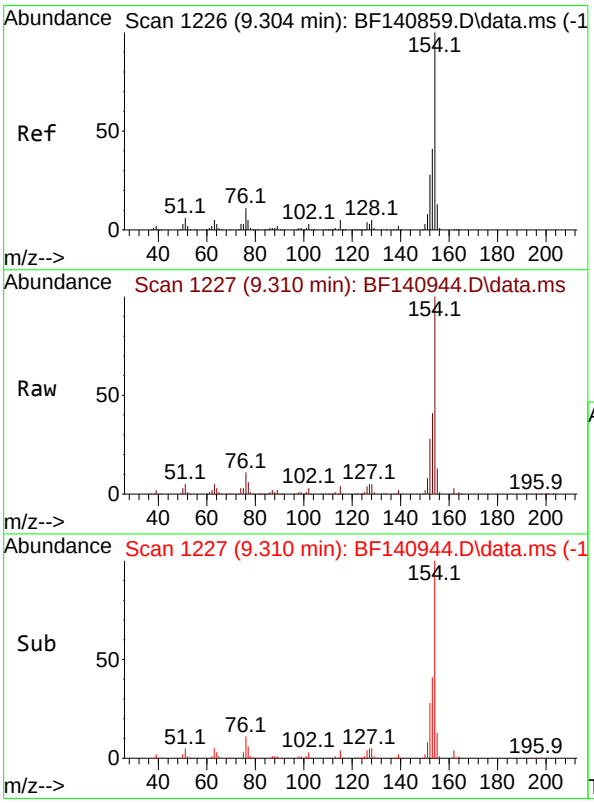
#45
2-Fluorobiphenyl
Concen: 105.274 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:172 Resp: 1081886

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.4	18.6	28.0

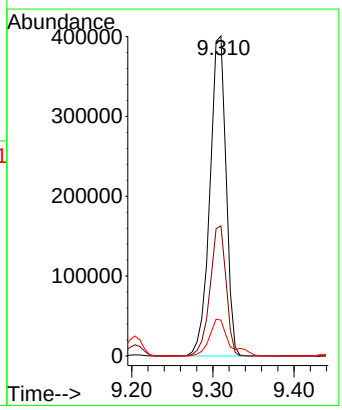


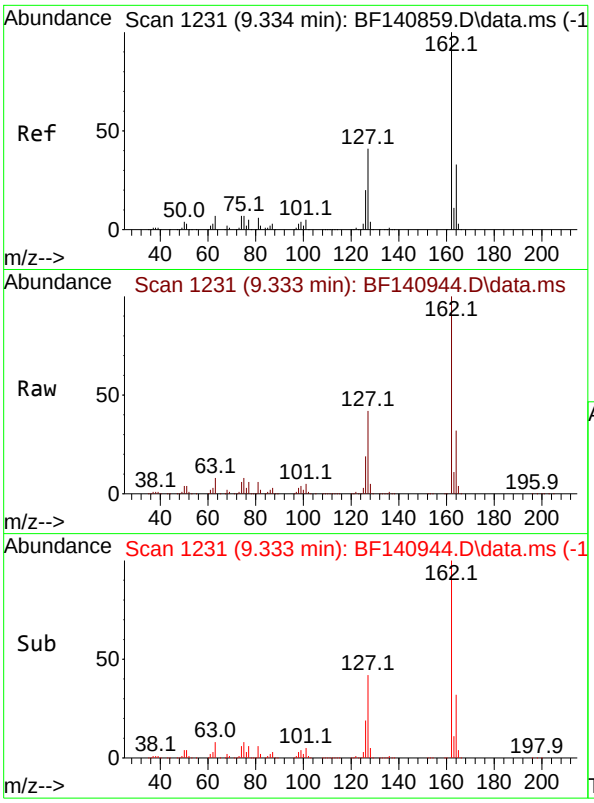


#46
1,1'-Biphenyl
Concen: 49.168 ng
RT: 9.310 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:154 Resp: 552413

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.8	60.8
76	11.2	0.0	31.0



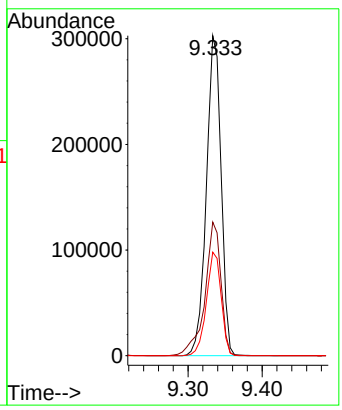


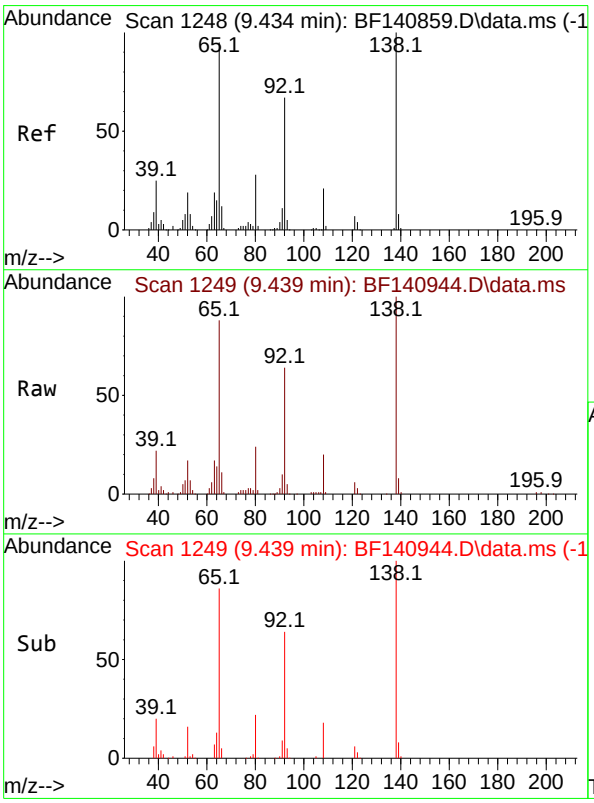
#47
2-Chloronaphthalene
Concen: 48.592 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:162 Resp: 417659

Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.5	50.3
164	32.4	26.2	39.2

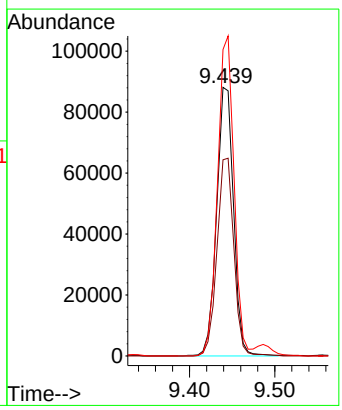


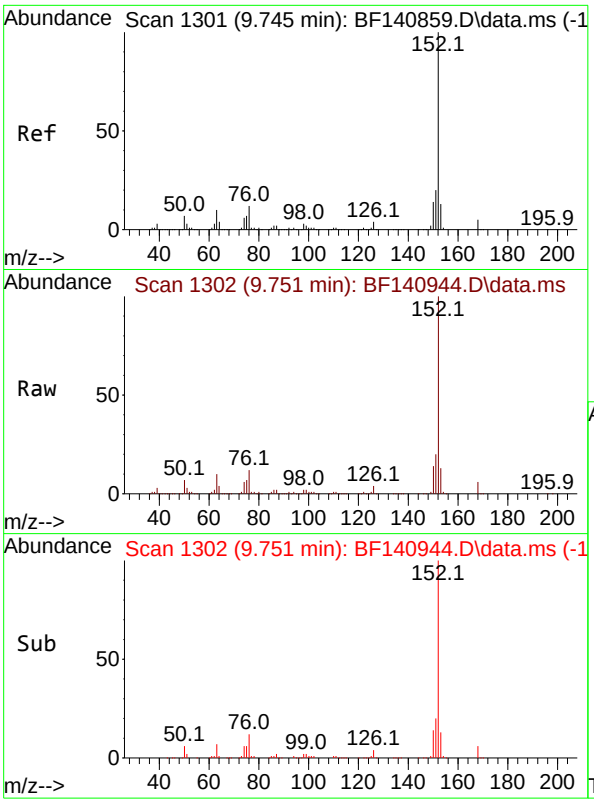


#48
2-Nitroaniline
Concen: 46.835 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion: 65 Resp: 121577

Ion	Ratio	Lower	Upper
65	100		
92	73.0	56.3	84.5
138	114.0	83.8	125.6



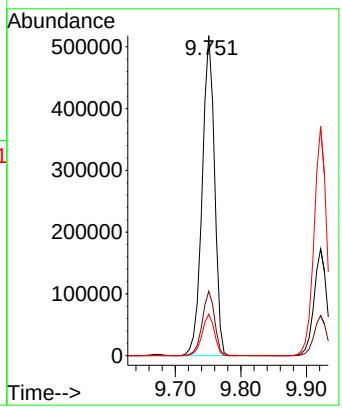


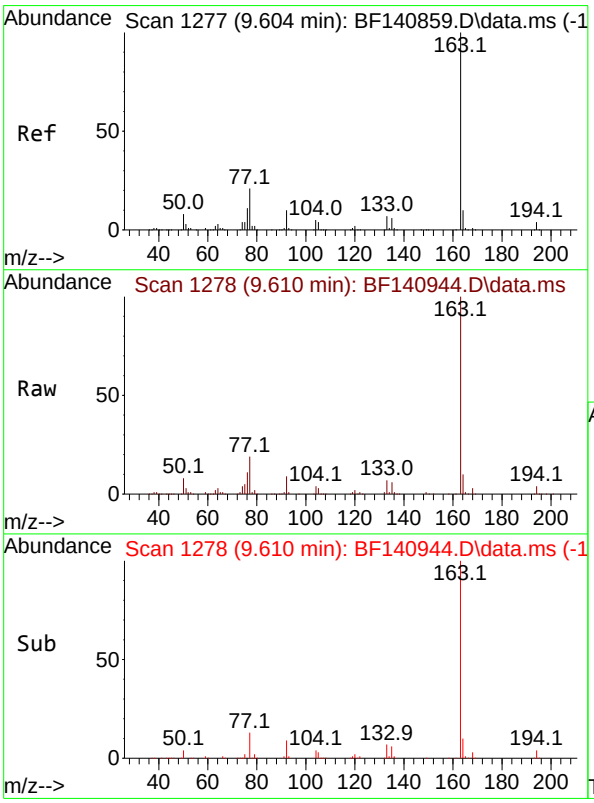
#49
Acenaphthylene
Concen: 53.969 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:152 Resp: 681698

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	13.0	10.6	16.0

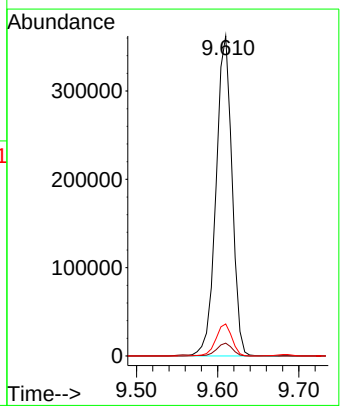


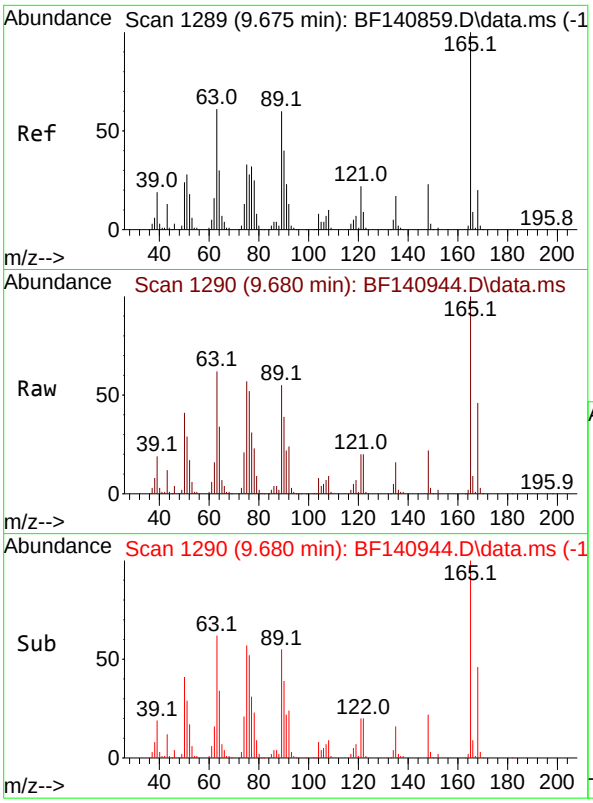


#50
Dimethylphthalate
Concen: 49.797 ng
RT: 9.610 min Scan# 1278
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:163 Resp: 496054

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.0	8.1	12.1



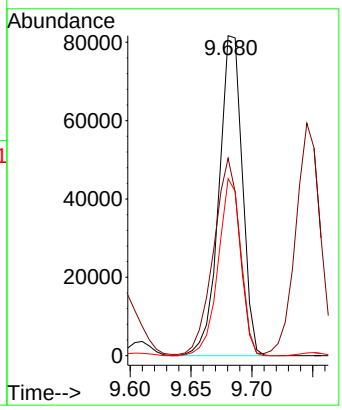


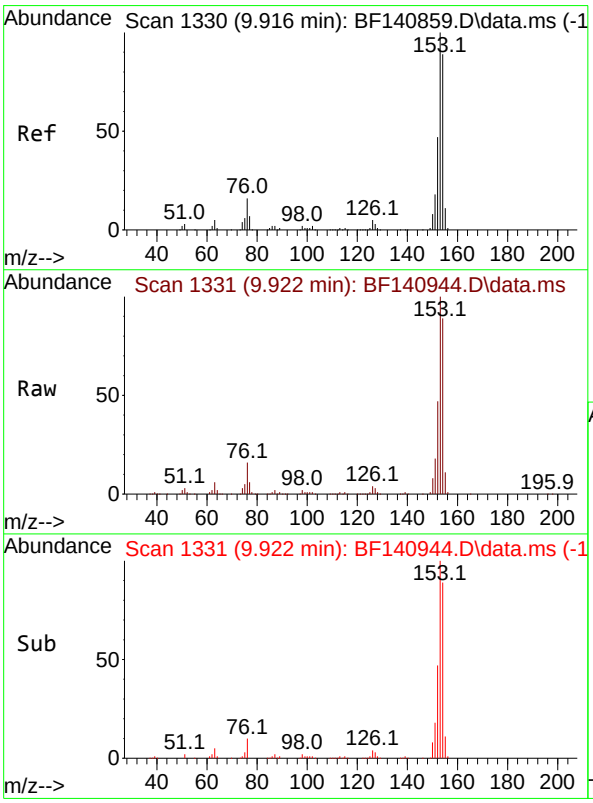
#51
2,6-Dinitrotoluene
Concen: 47.820 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:165 Resp: 108898

Ion	Ratio	Lower	Upper
165	100		
63	61.7	49.7	74.5
89	55.3	48.2	72.4

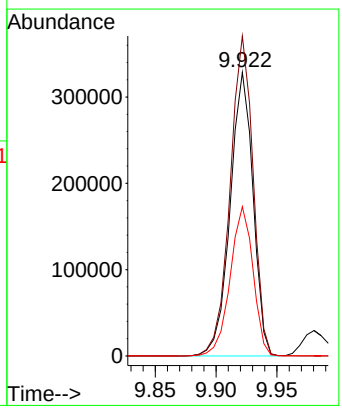


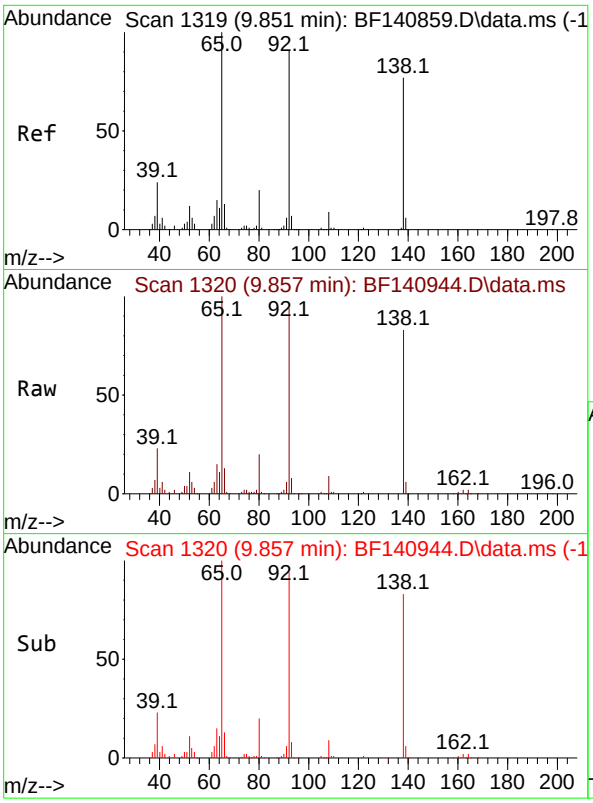


#52
Acenaphthene
Concen: 53.351 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:154 Resp: 430468

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.9	134.9
152	52.6	42.6	63.8



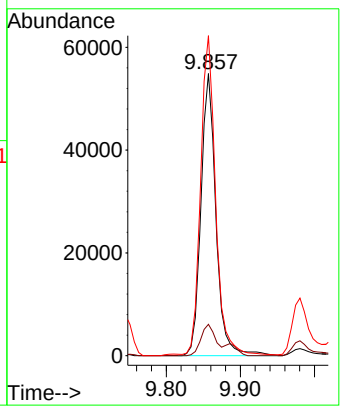


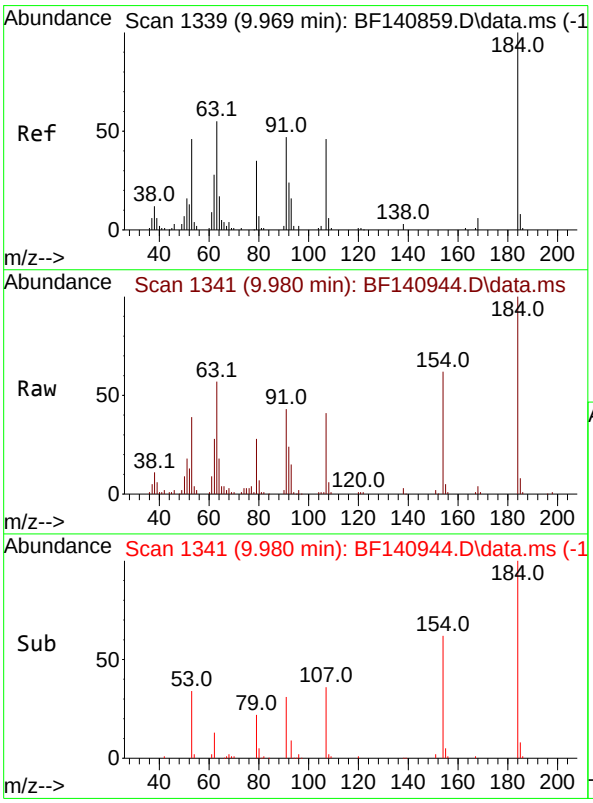
#53
3-Nitroaniline
Concen: 34.184 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:138 Resp: 77254

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	113.4	95.5	143.3

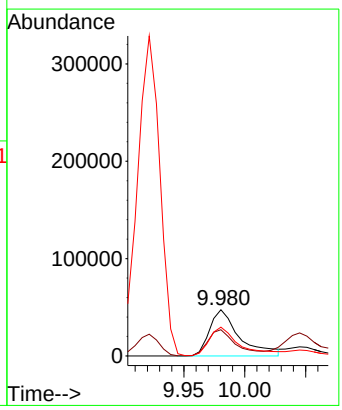


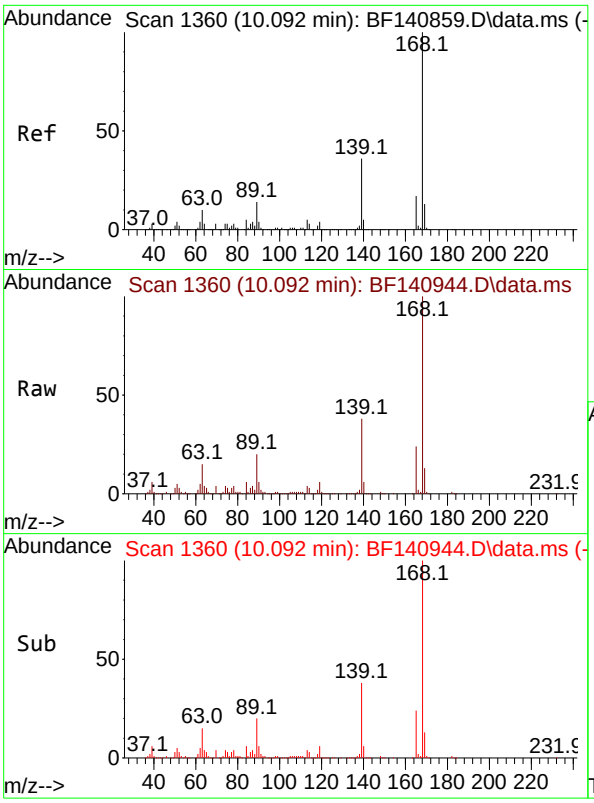


#54
2,4-Dinitrophenol
Concen: 73.697 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.011 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:184 Resp: 81264

Ion	Ratio	Lower	Upper
184	100		
63	56.8	51.6	77.4
154	62.1	56.1	84.1



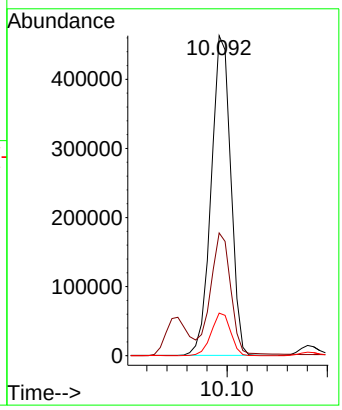


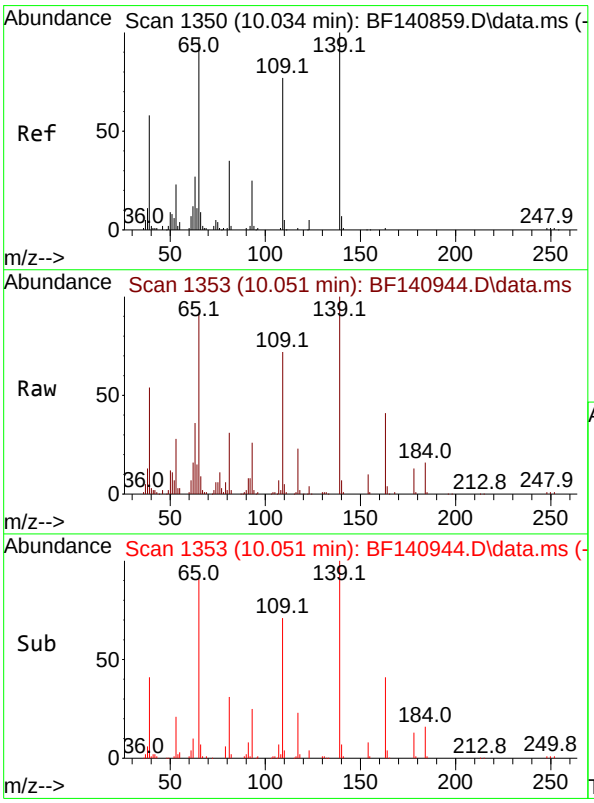
#55
Dibenzofuran
Concen: 49.905 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:168 Resp: 623949

Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.1	46.7
169	13.3	10.6	16.0

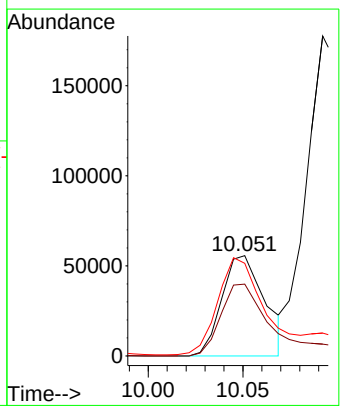


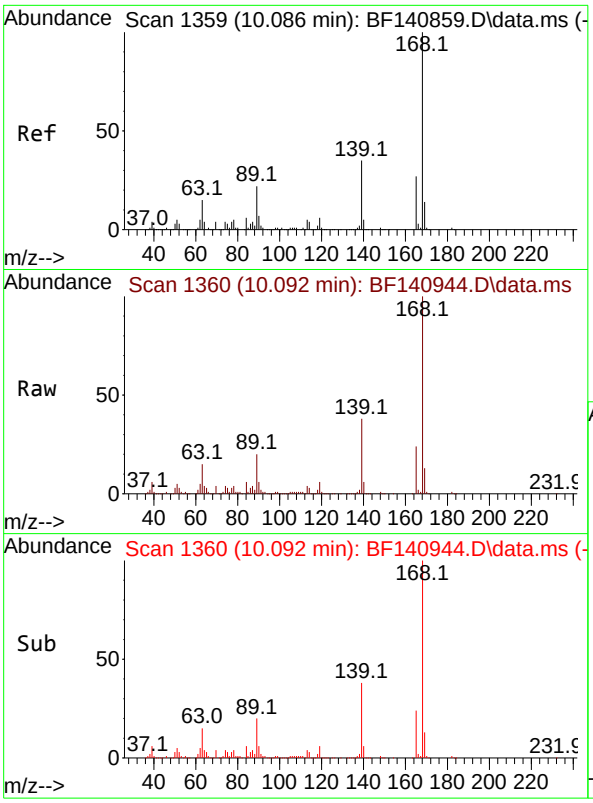


#56
4-Nitrophenol
Concen: 72.611 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:139 Resp: 87740

Ion	Ratio	Lower	Upper
139	100		
109	71.7	56.7	96.7
65	92.4	78.1	118.1



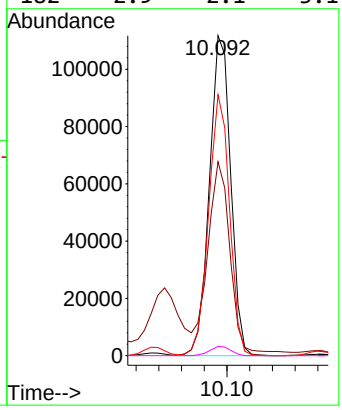


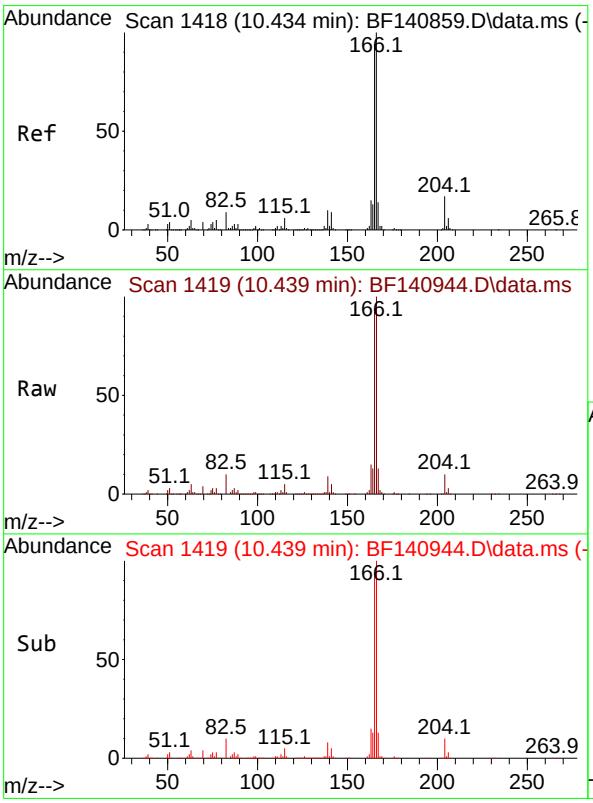
#57
2,4-Dinitrotoluene
Concen: 48.383 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:165 Resp: 144968

Ion	Ratio	Lower	Upper
165	100		
63	60.6	49.3	73.9
89	81.6	66.2	99.4
182	2.9	2.1	3.1

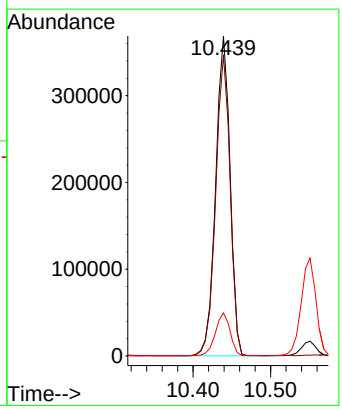


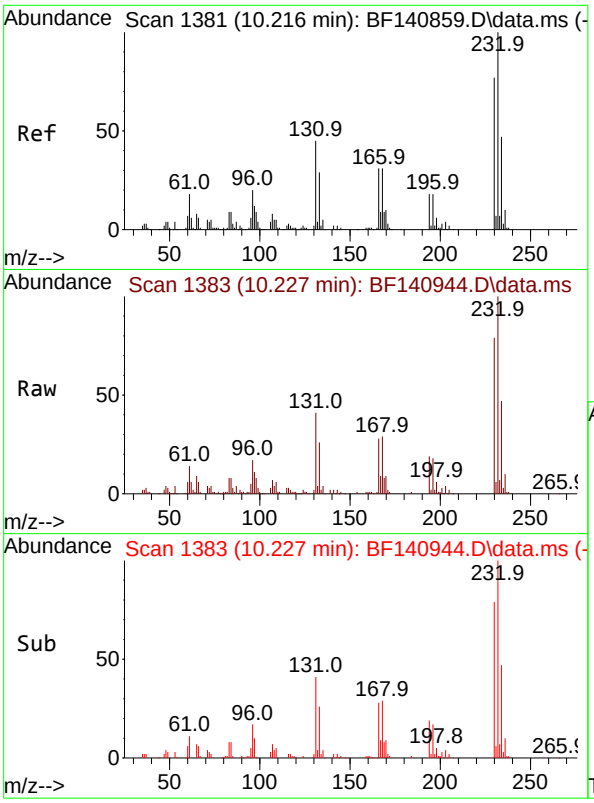


#58
Fluorene
Concen: 46.262 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:166 Resp: 477180

Ion	Ratio	Lower	Upper
166	100		
165	94.1	75.1	112.7
167	13.5	11.1	16.7



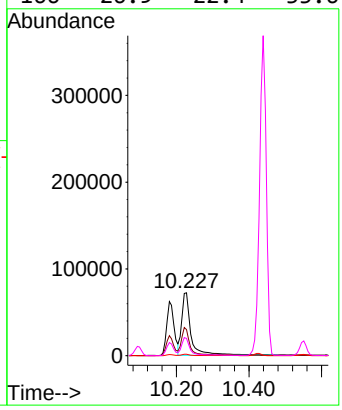


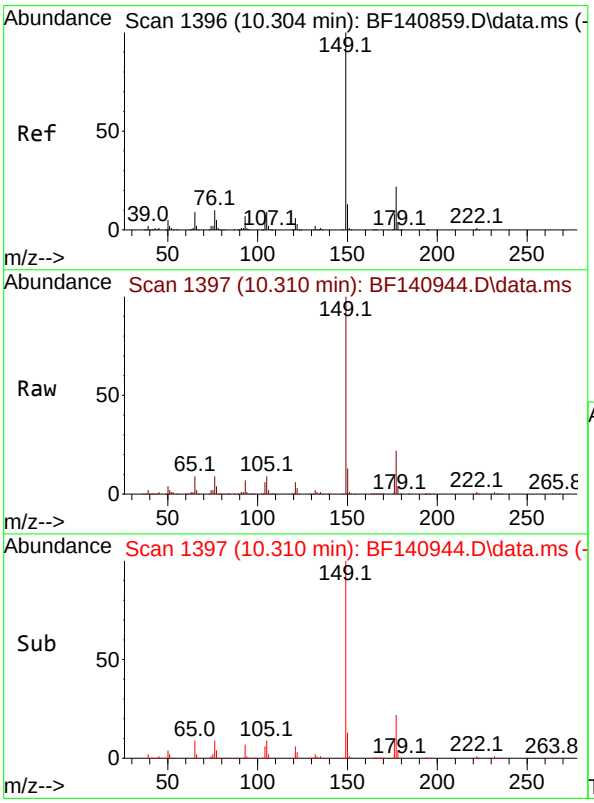
#59
2,3,4,6-Tetrachlorophenol
Concen: 53.557 ng
RT: 10.227 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:232 Resp: 127554

Ion	Ratio	Lower	Upper
232	100		
131	39.3	35.1	52.7
130	1.9	1.8	2.8
166	26.9	22.4	33.6

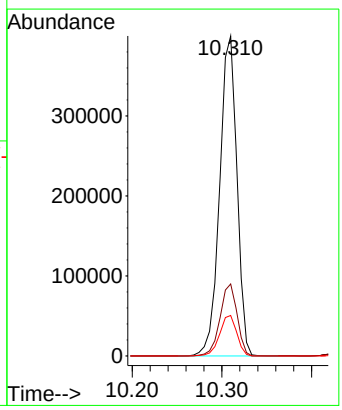


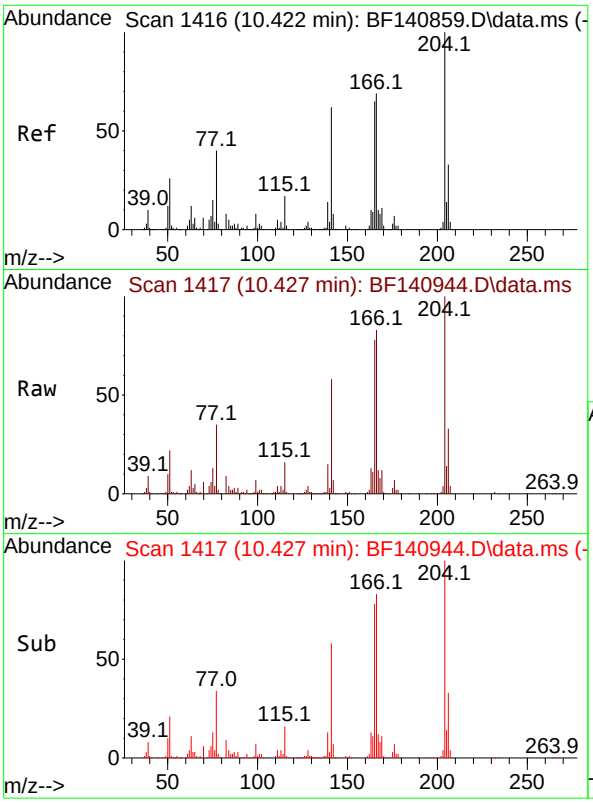


#60
Diethylphthalate
Concen: 51.715 ng
RT: 10.310 min Scan# 1397
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 534197

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.2	25.8
150	12.7	10.1	15.1



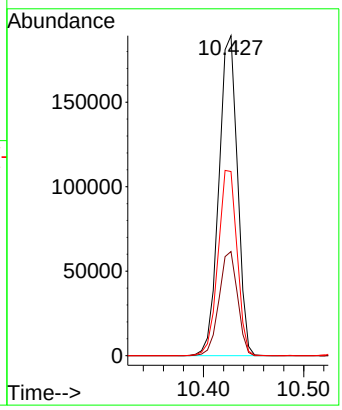


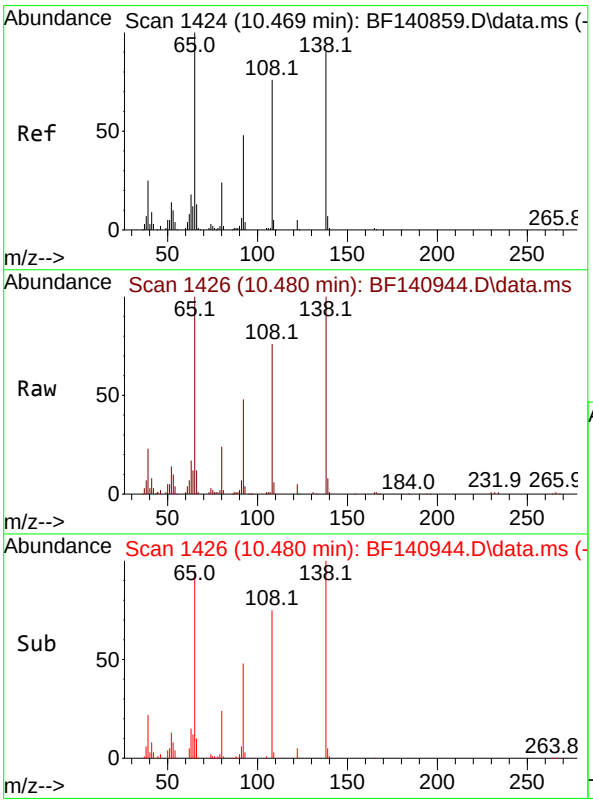
#61
4-Chlorophenyl-phenylether
Concen: 47.046 ng
RT: 10.427 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:204 Resp: 243755

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.5	39.7
141	57.6	50.0	75.0

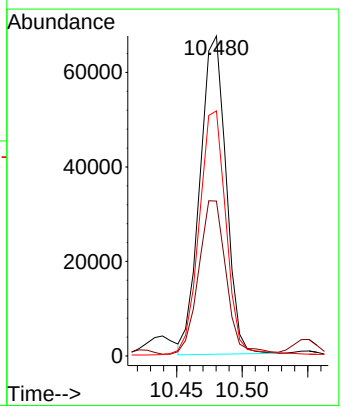


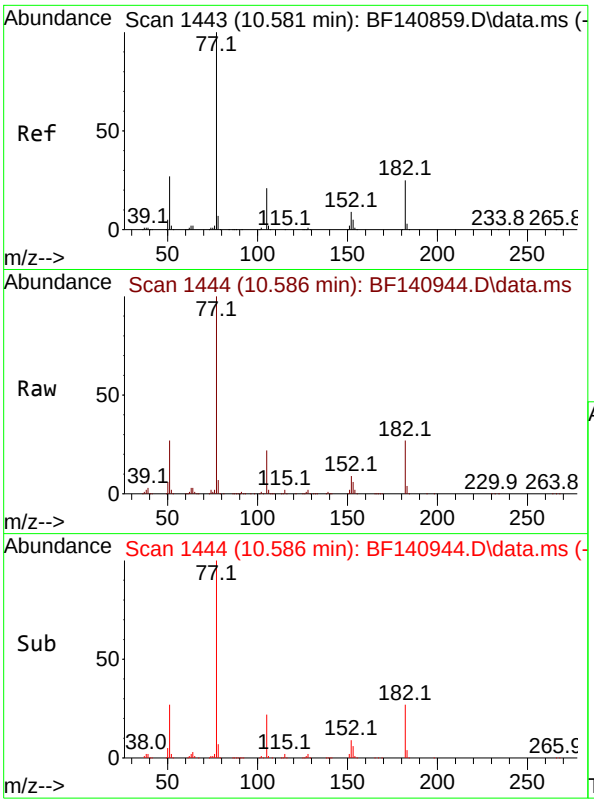


#62
4-Nitroaniline
Concen: 39.481 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:138 Resp: 93240

Ion	Ratio	Lower	Upper
138	100		
92	48.4	32.6	72.6
108	76.6	64.1	104.1



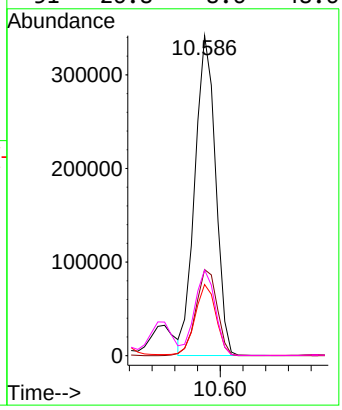


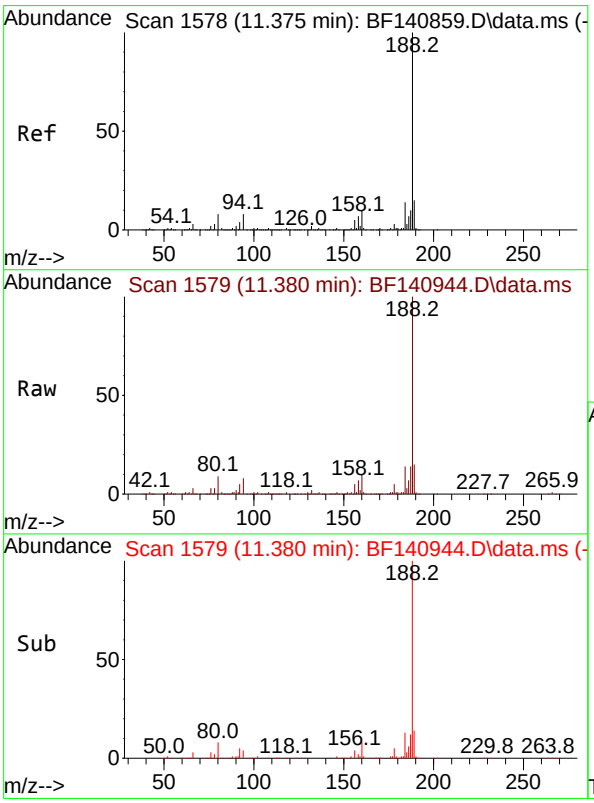
#63
Azobenzene
Concen: 44.427 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion: 77 Resp: 431430

Ion	Ratio	Lower	Upper
77	100		
182	26.9	4.5	44.5
105	22.2	0.9	40.9
51	26.8	8.6	48.6

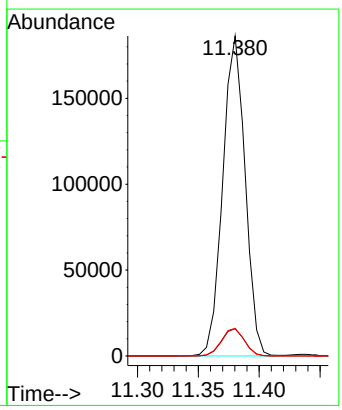


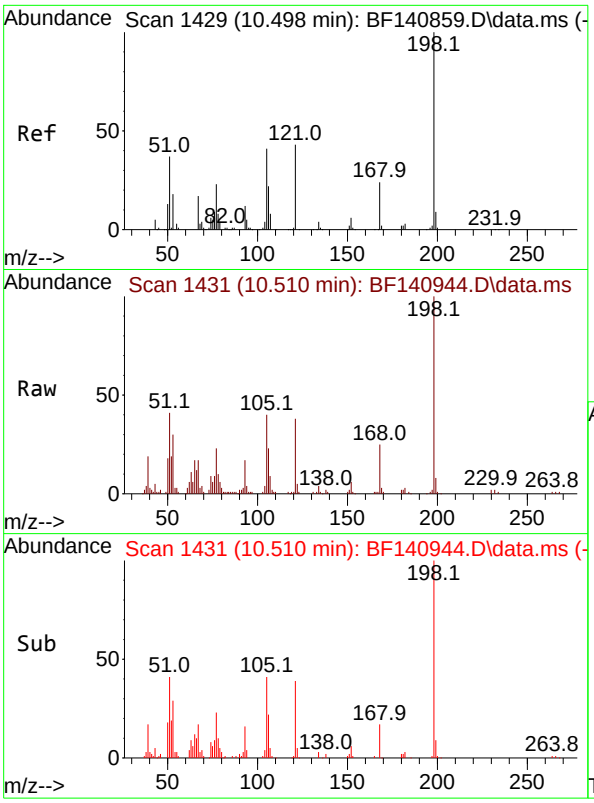


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:188 Resp: 237962

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	8.7	6.8	10.2



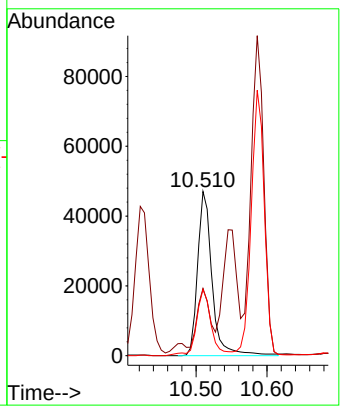


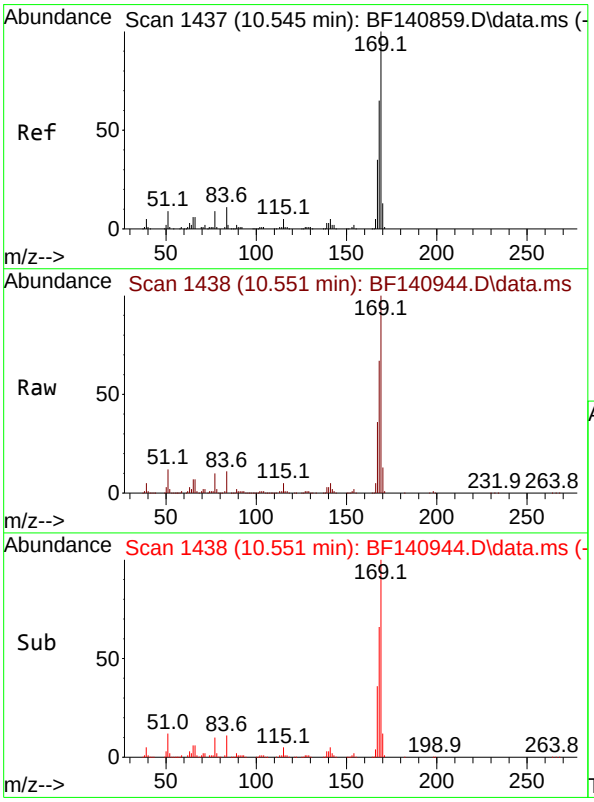
#65
4,6-Dinitro-2-methylphenol
Concen: 49.484 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:198 Resp: 66725

Ion	Ratio	Lower	Upper
198	100		
51	40.9	24.4	64.4
105	40.4	22.1	62.1

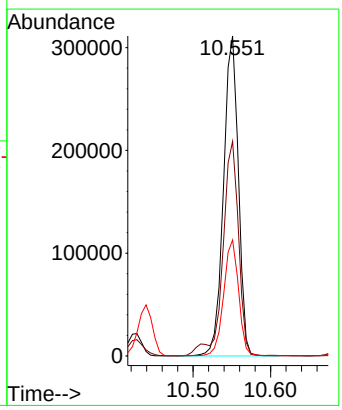


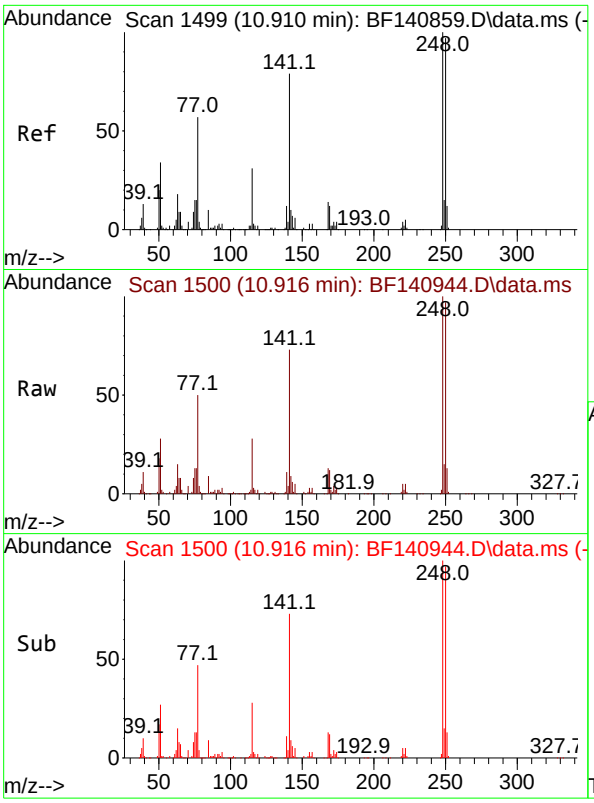


#66
n-Nitrosodiphenylamine
Concen: 56.716 ng
RT: 10.551 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:169 Resp: 414949

Ion	Ratio	Lower	Upper
169	100		
168	67.1	53.4	80.0
167	36.3	28.3	42.5



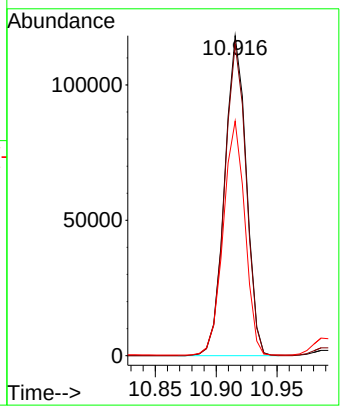


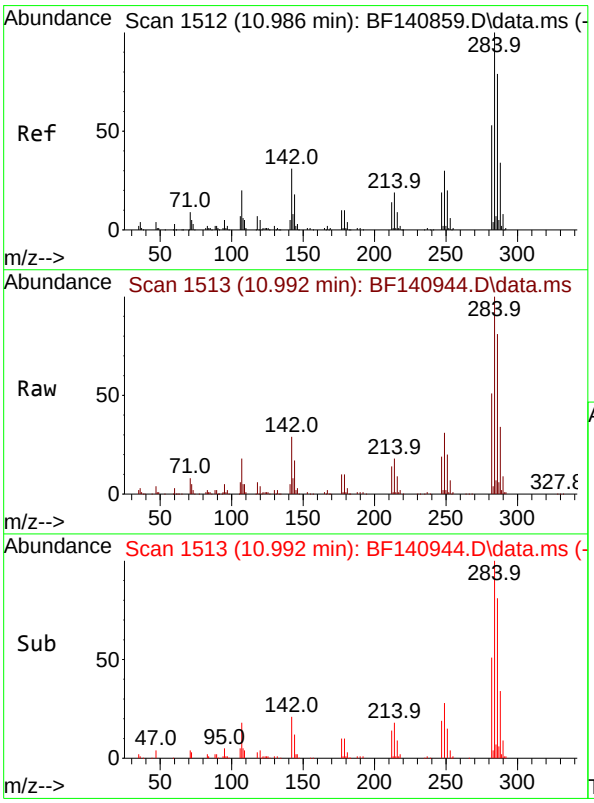
#67
4-Bromophenyl-phenylether
Concen: 55.009 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:248 Resp: 146442

Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.4	116.2
141	73.3	62.9	94.3

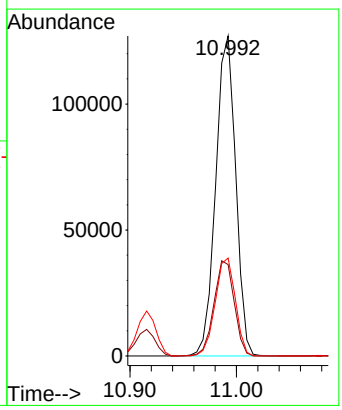


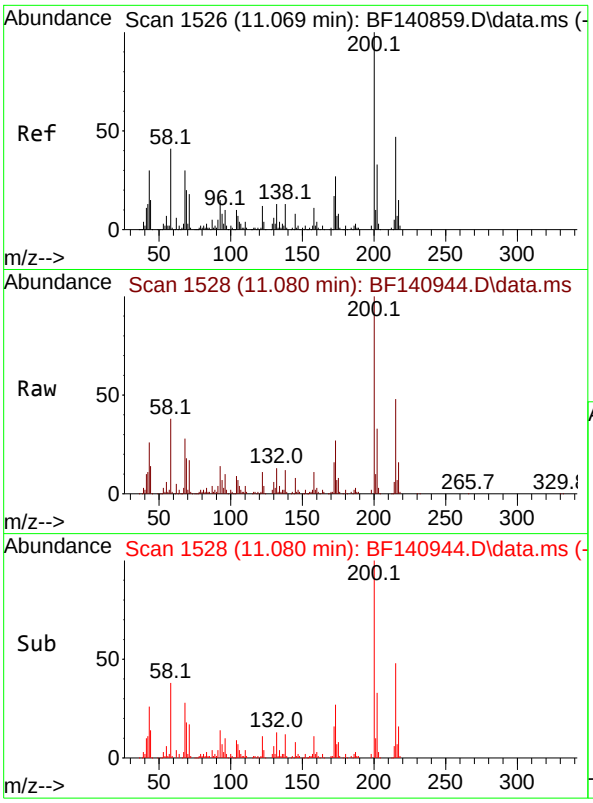


#68
Hexachlorobenzene
Concen: 54.744 ng
RT: 10.992 min Scan# 1513
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:284 Resp: 165233

Ion	Ratio	Lower	Upper
284	100		
142	28.6	24.6	36.8
249	30.6	24.3	36.5



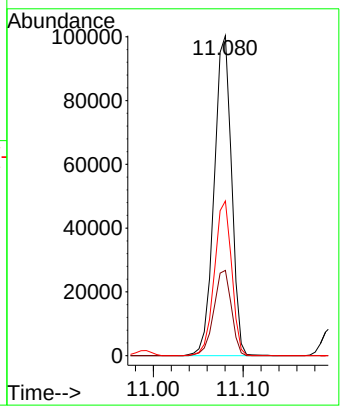


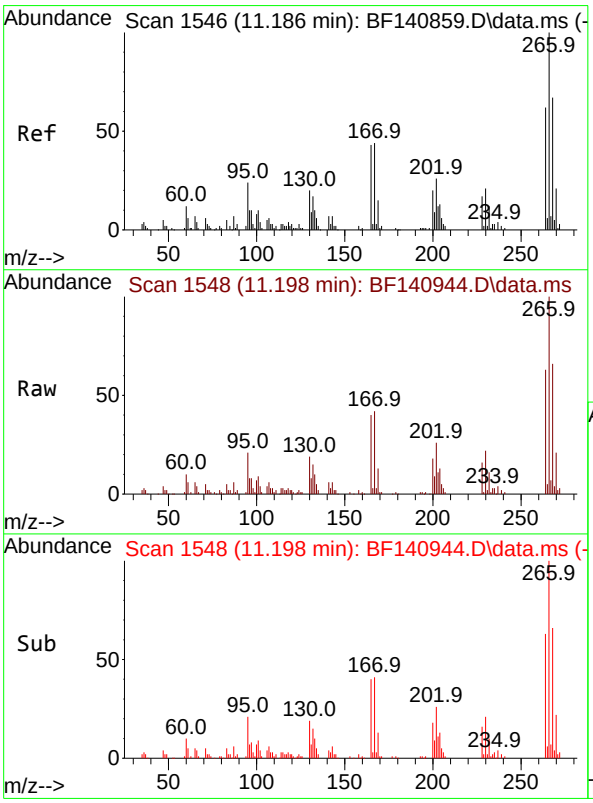
#69
Atrazine
Concen: 65.919 ng
RT: 11.080 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:200 Resp: 134695

Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.6	46.6
215	48.4	26.7	66.7

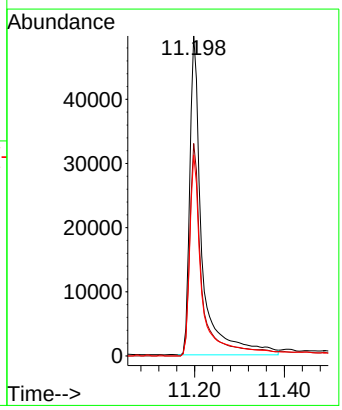


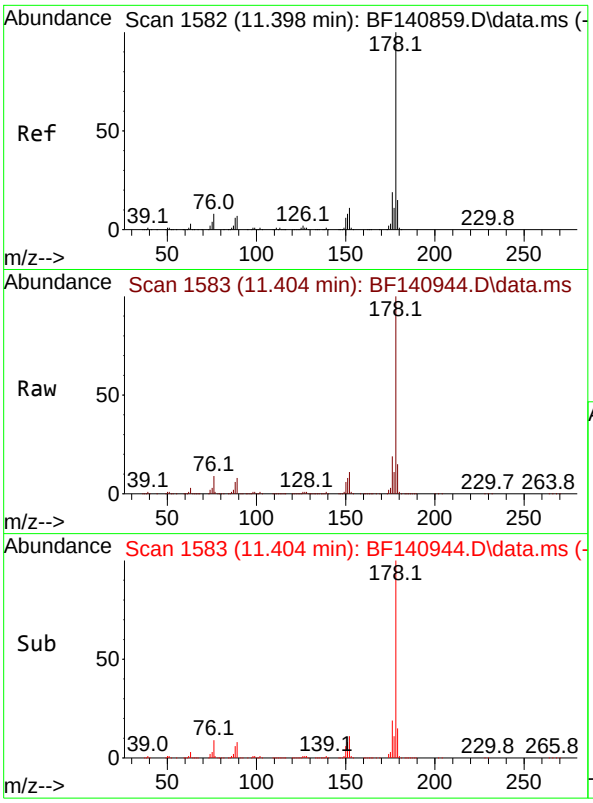


#70
Pentachlorophenol
Concen: 85.812 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:266 Resp: 94695

Ion	Ratio	Lower	Upper
266	100		
268	66.4	54.0	81.0
264	62.9	49.4	74.2



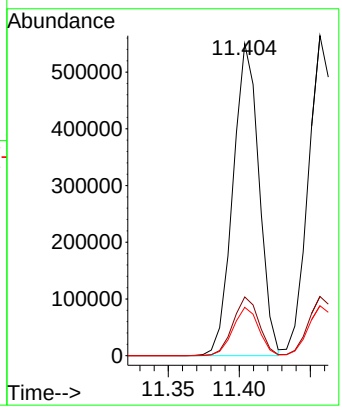


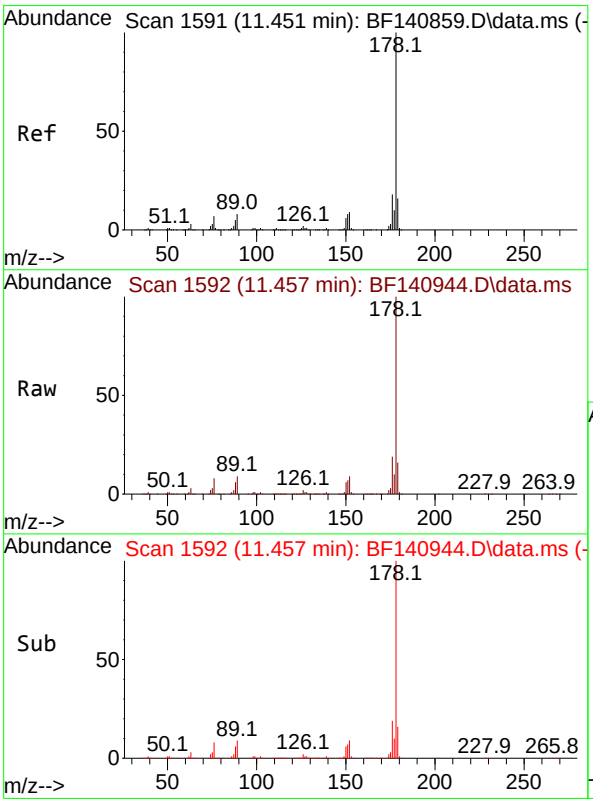
#71
Phenanthrene
Concen: 57.320 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:178 Resp: 701422

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.2
179	15.5	12.1	18.1

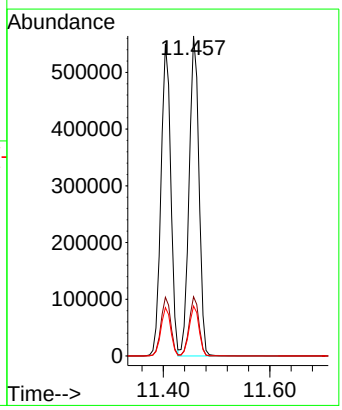


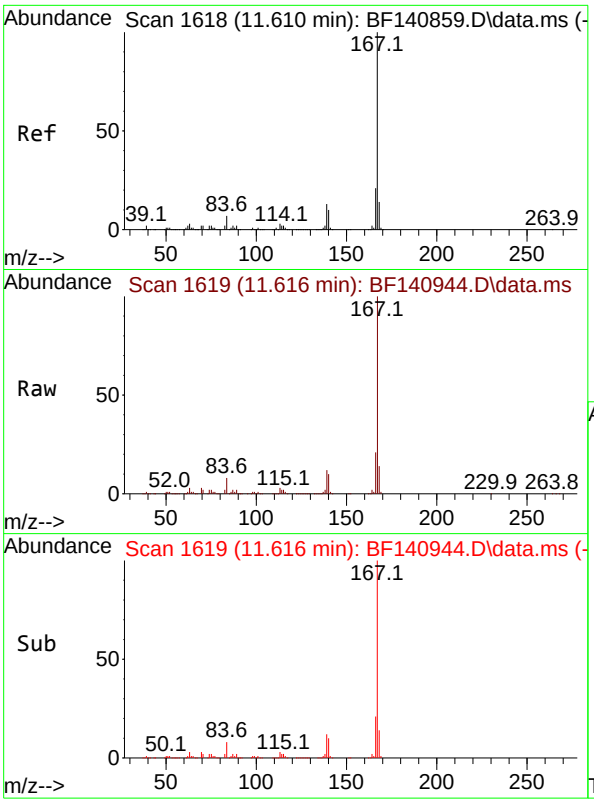


#72
Anthracene
Concen: 60.212 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:178 Resp: 725617

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	22.0
179	15.6	12.6	18.8



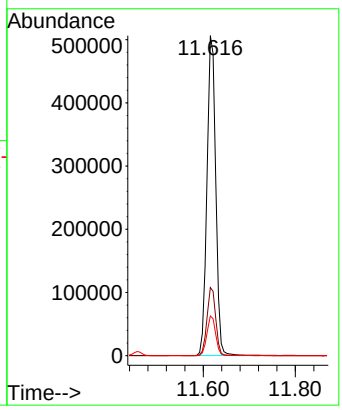


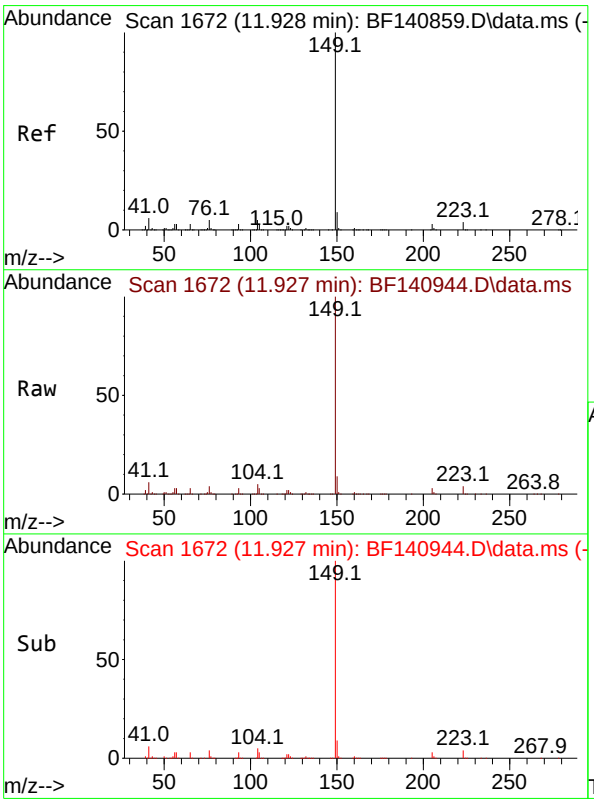
#73
Carbazole
Concen: 57.096 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:167 Resp: 673948

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	12.4	10.2	15.2

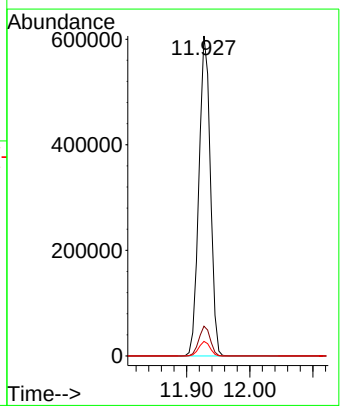


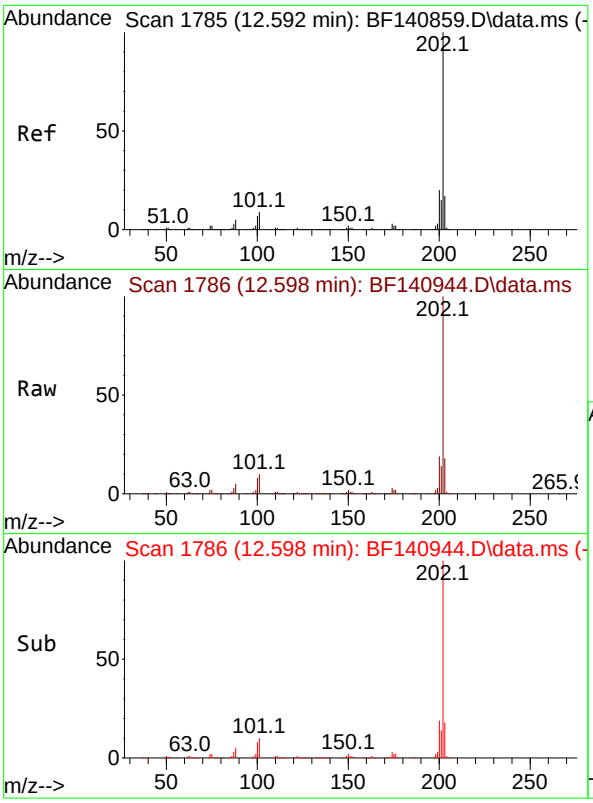


#74
Di-n-butylphthalate
Concen: 55.119 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 763567

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.5	11.3
104	4.6	3.8	5.8



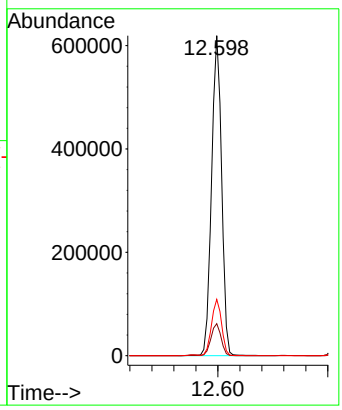


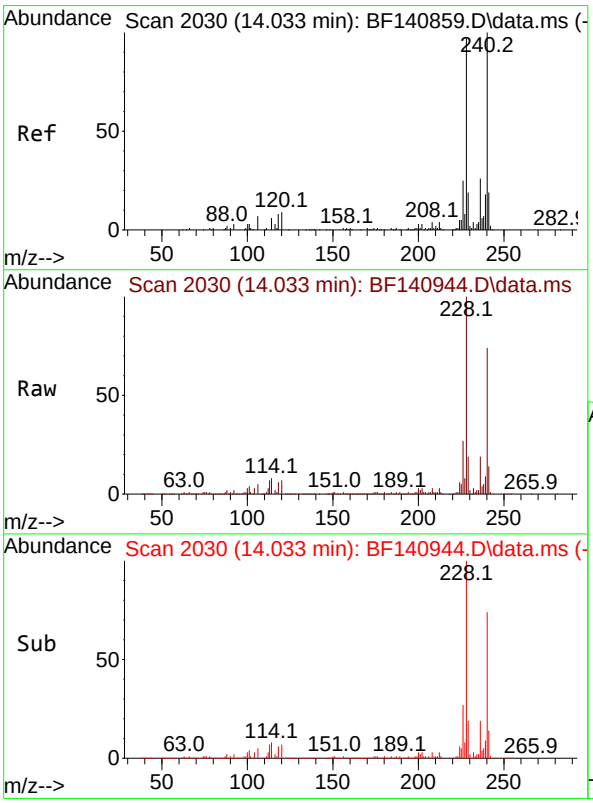
#75
Fluoranthene
Concen: 55.813 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:202 Resp: 786570

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	29.3
203	17.6	0.0	37.4

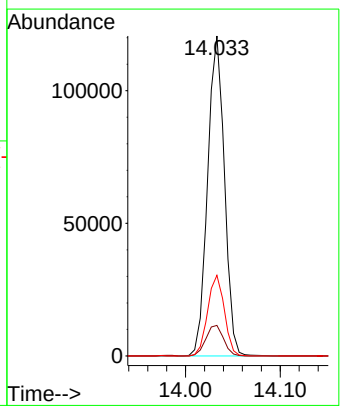


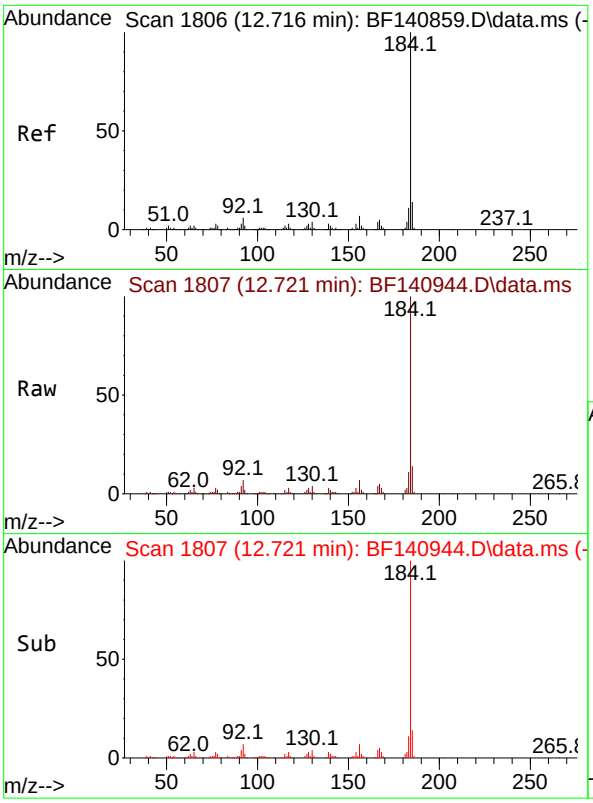


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:240 Resp: 149220

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.6	11.4
236	25.2	20.5	30.7



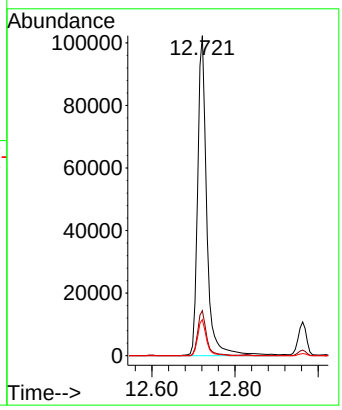


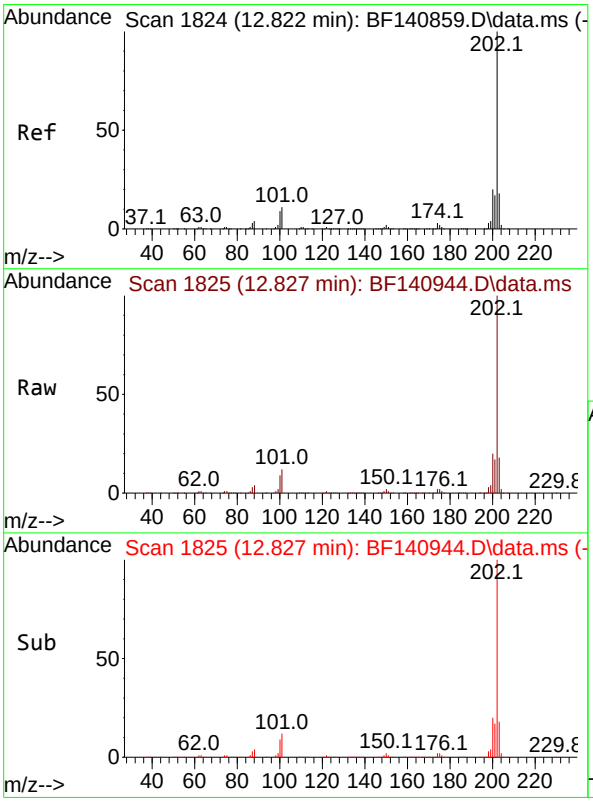
#77
Benzidine
Concen: 51.217 ng
RT: 12.721 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:184 Resp: 155983

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.1	16.7
183	11.2	9.0	13.4

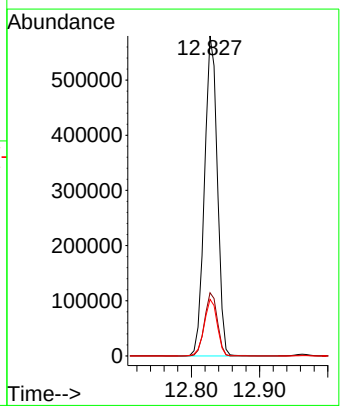


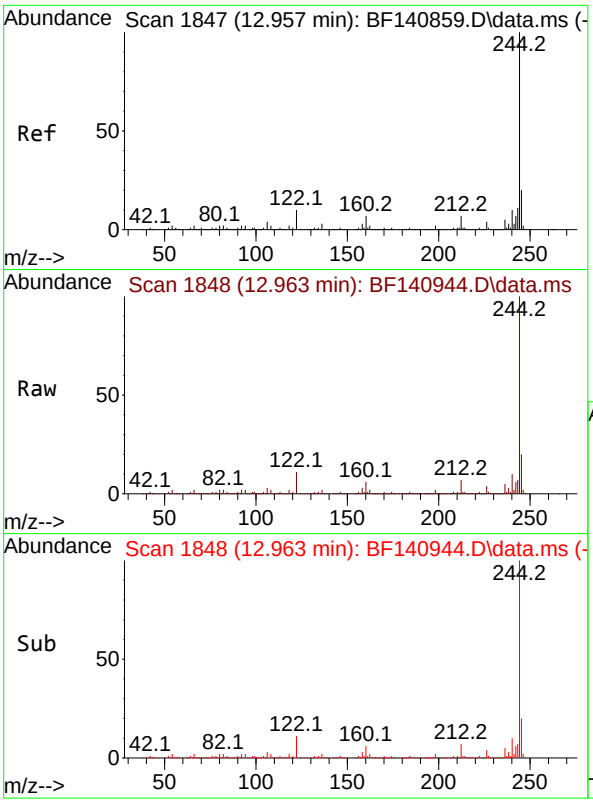


#78
Pyrene
Concen: 57.177 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:202 Resp: 758712

Ion	Ratio	Lower	Upper
202	100		
200	19.8	16.1	24.1
203	17.7	14.2	21.4



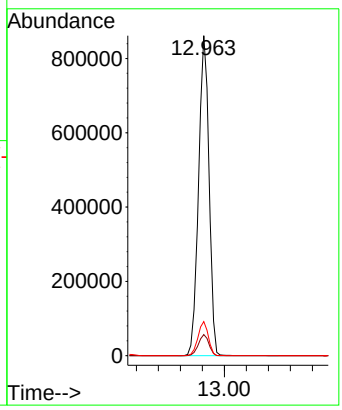


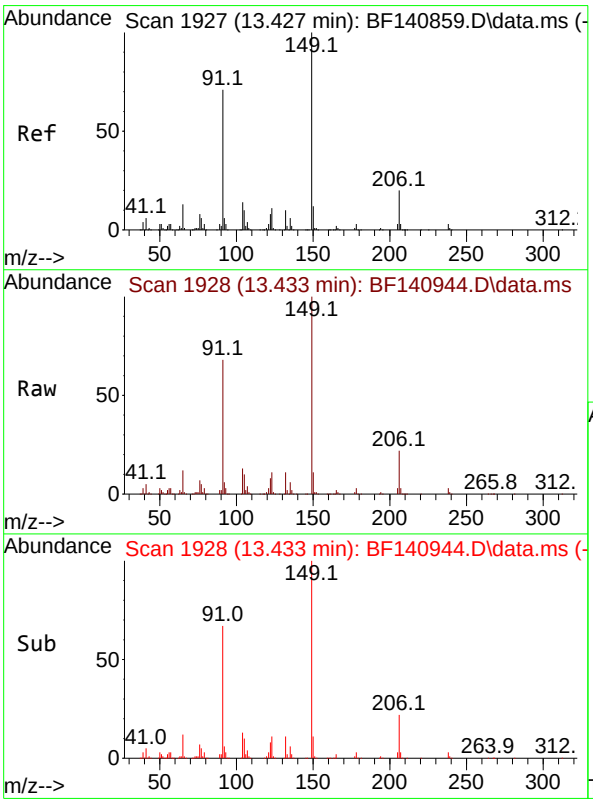
#79
Terphenyl-d14
Concen: 120.524 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:244 Resp: 1140526

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	10.6	8.2	12.2

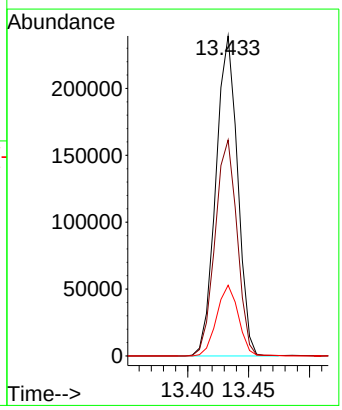


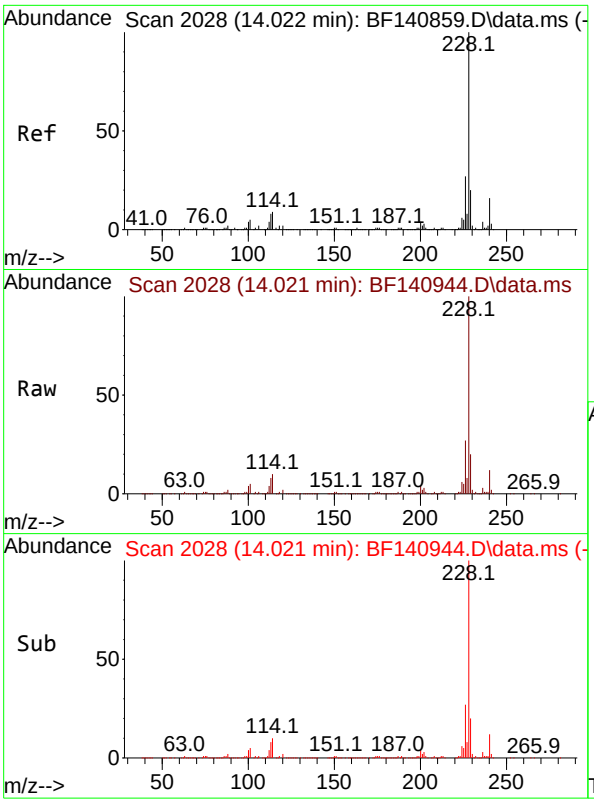


#80
Butylbenzylphthalate
Concen: 60.922 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 297455

Ion	Ratio	Lower	Upper
149	100		
91	67.5	56.7	85.1
206	22.1	16.4	24.6



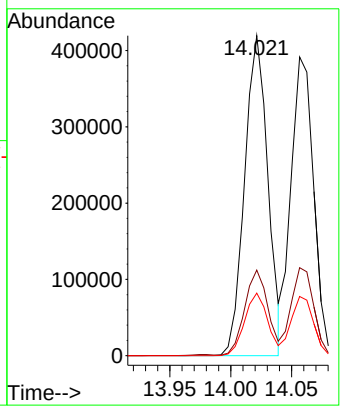


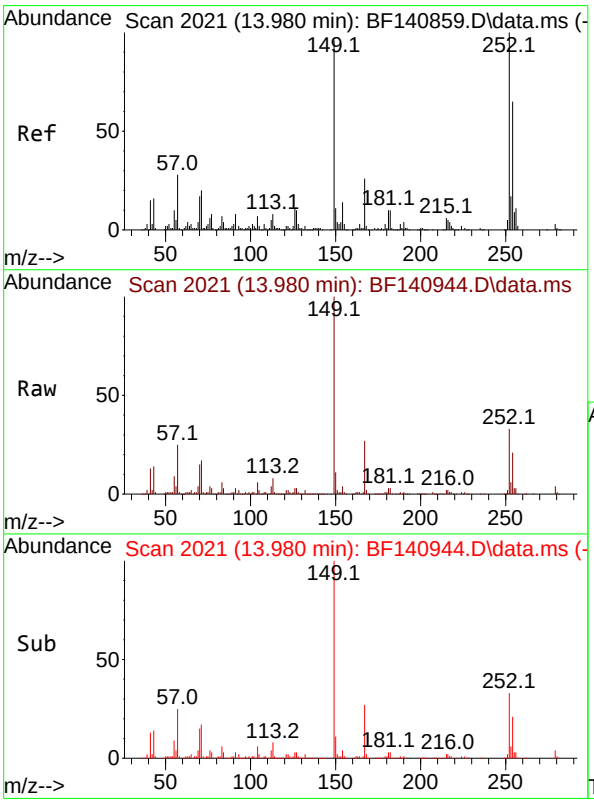
#81
Benzo(a)anthracene
Concen: 52.753 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:228 Resp: 557901

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.6	15.8	23.8

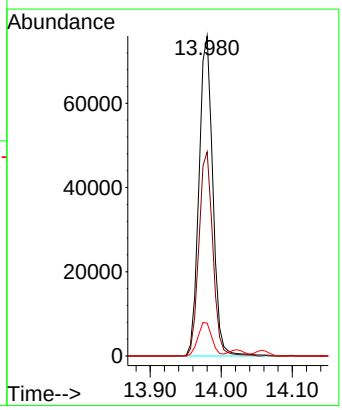


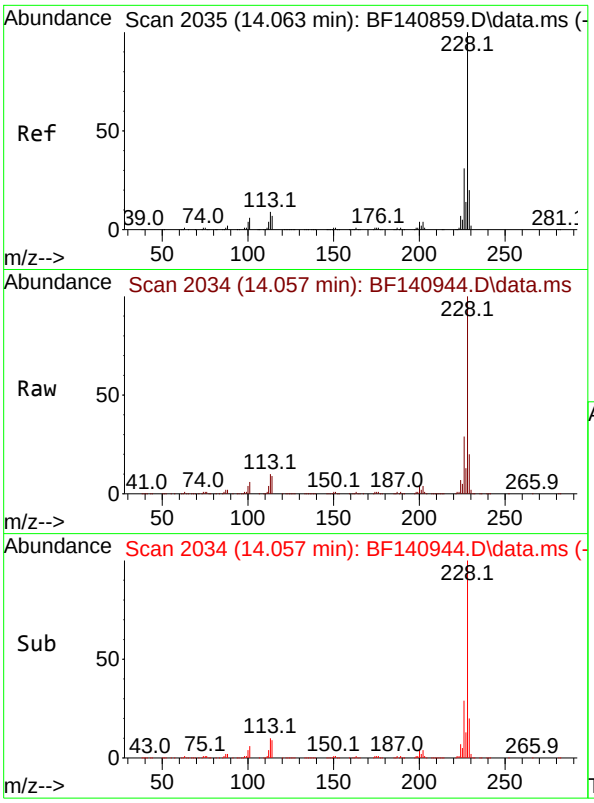


#82
3,3'-Dichlorobenzidine
Concen: 32.279 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 102996

Ion	Ratio	Lower	Upper
252	100		
254	63.8	52.3	78.5
126	10.3	8.4	12.6



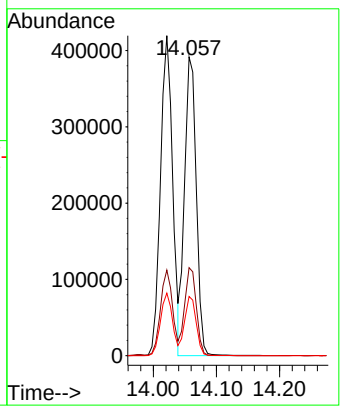


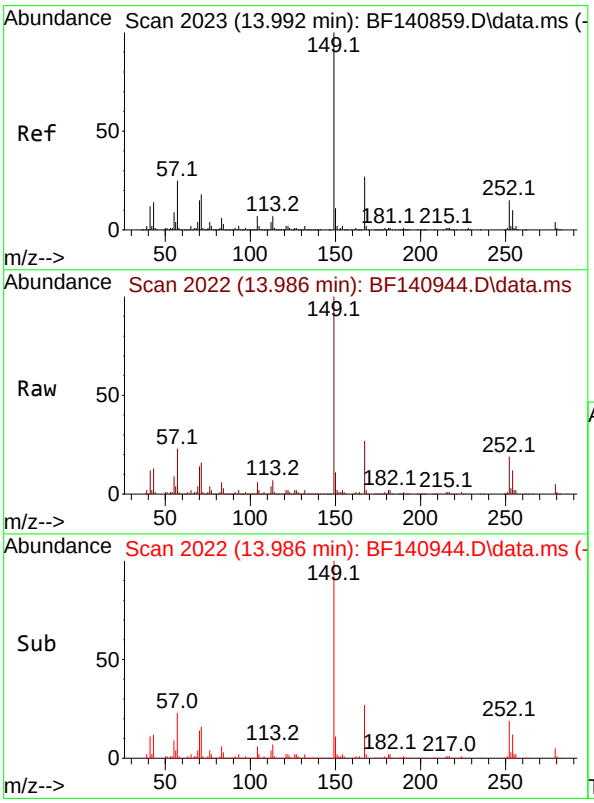
#83
Chrysene
Concen: 52.875 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:228 Resp: 508492

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	19.8	16.0	24.0

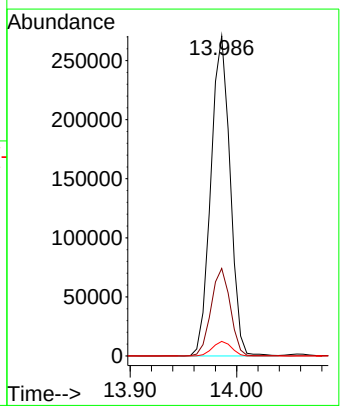


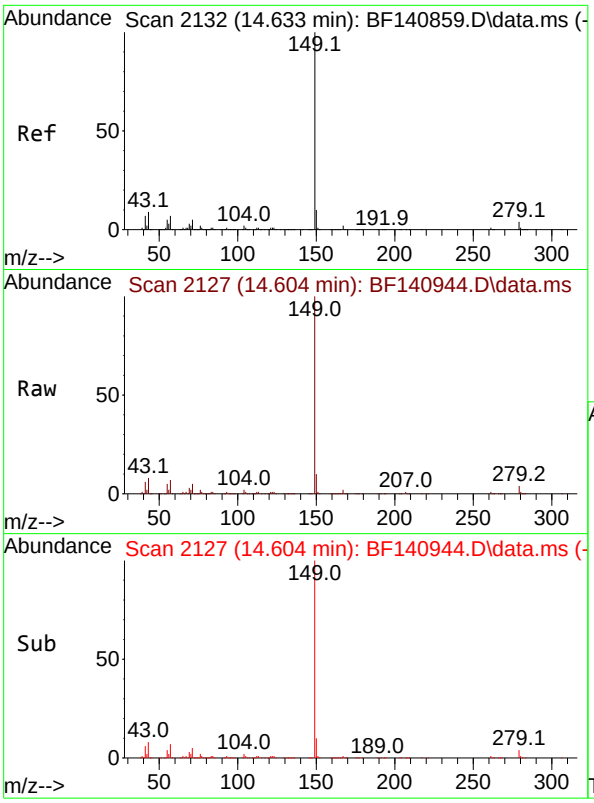


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.941 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:149 Resp: 339592

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.8	32.8
279	4.6	3.5	5.3



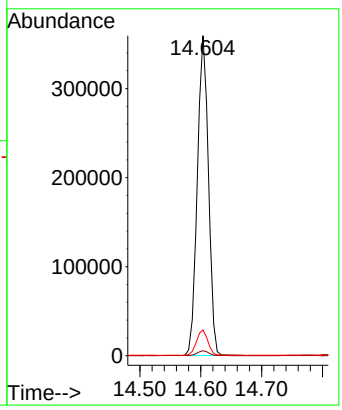


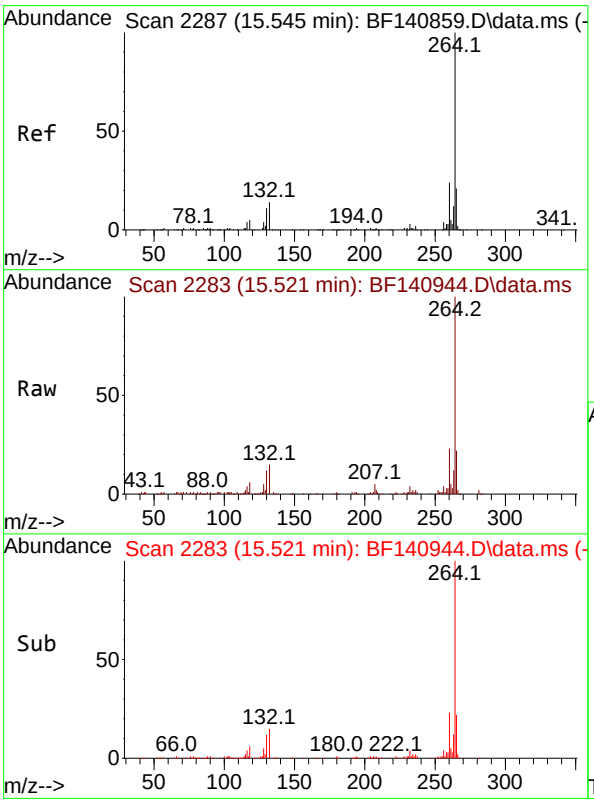
#85
Di-n-octyl phthalate
Concen: 47.866 ng
RT: 14.604 min Scan# 21
Delta R.T. -0.030 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:149 Resp: 455909

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	7.0	10.6

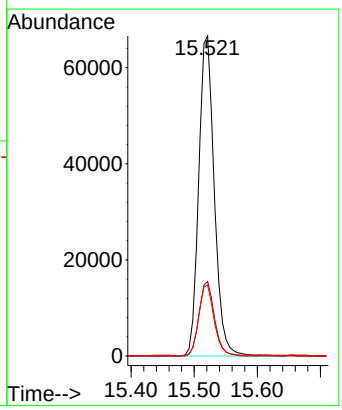


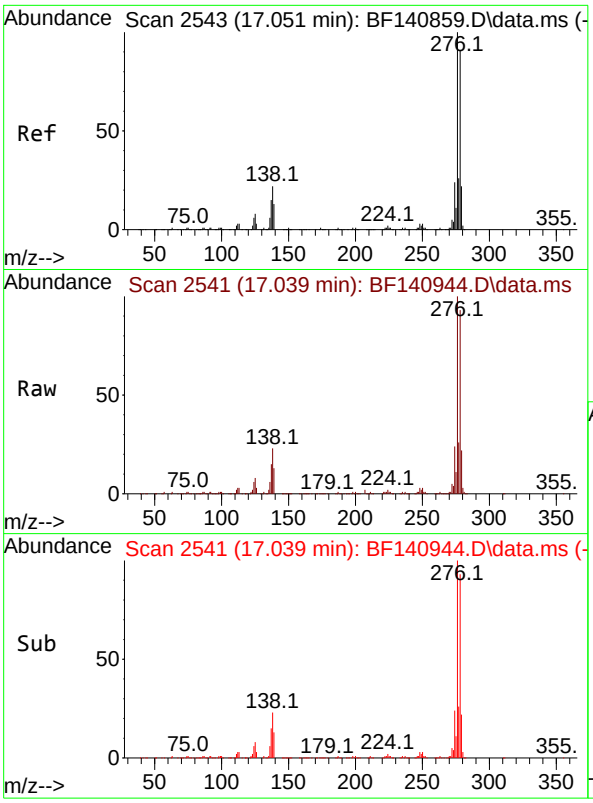


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:264 Resp: 113763

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.1	28.7
265	22.2	17.0	25.4



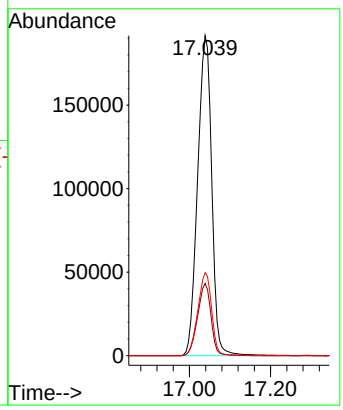


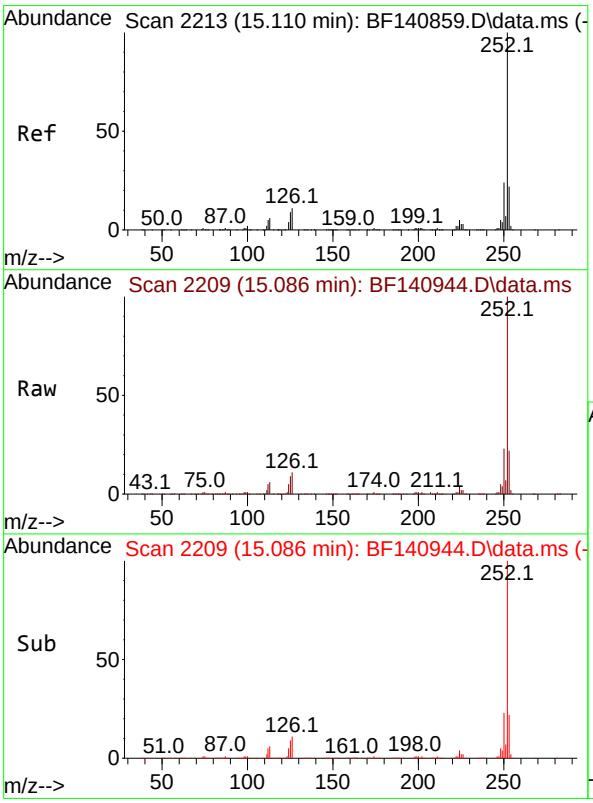
#87
Indeno(1,2,3-cd)pyrene
Concen: 65.266 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:276 Resp: 463336

Ion	Ratio	Lower	Upper
276	100		
138	21.5	16.9	25.3
277	25.4	20.2	30.4

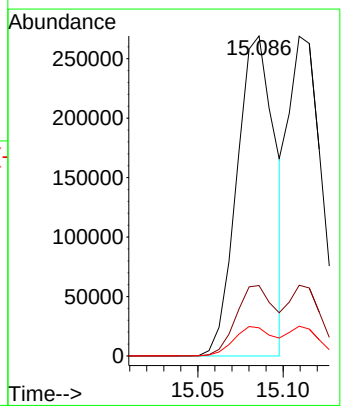


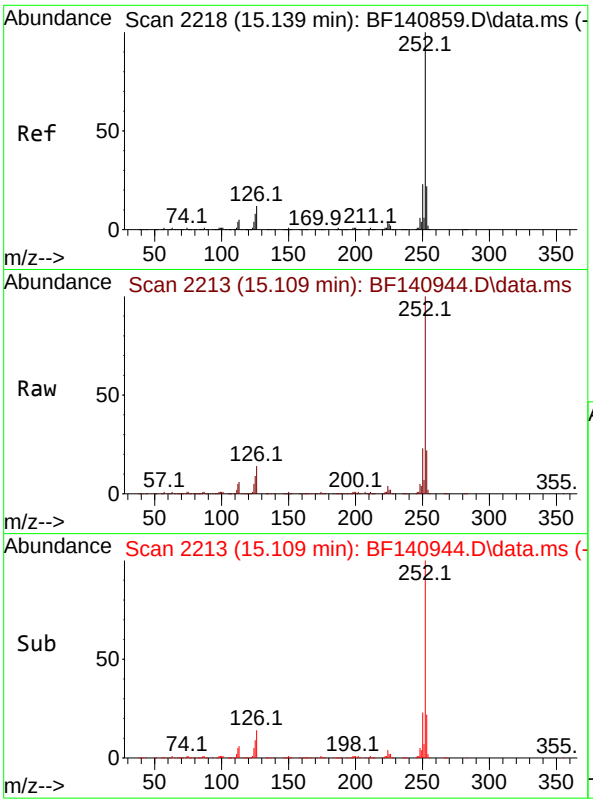


#88
Benzo(b)fluoranthene
Concen: 52.828 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.024 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 417172

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	8.8	7.0	10.4



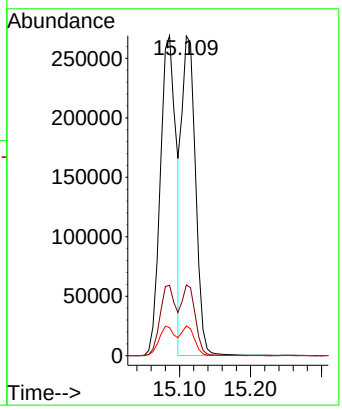


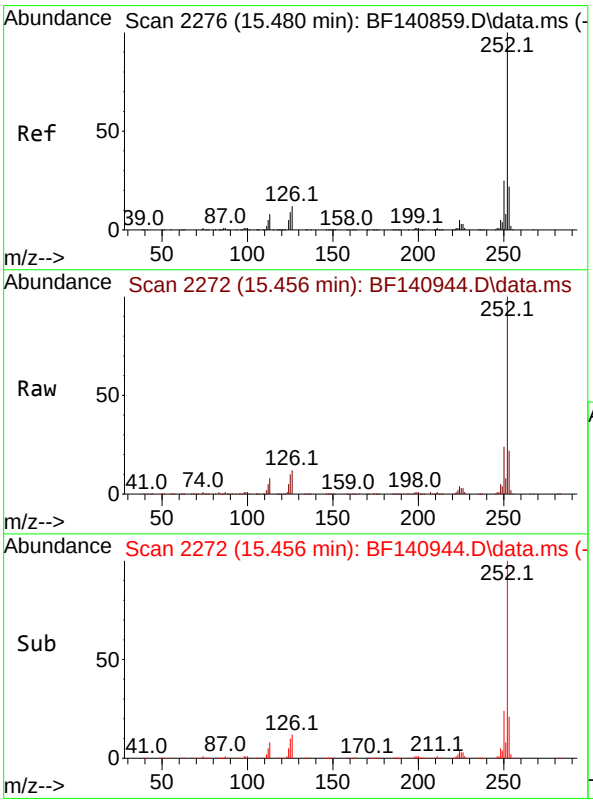
#89
Benzo(k)fluoranthene
Concen: 53.216 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.030 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:252 Resp: 360481

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.3	6.8	10.2

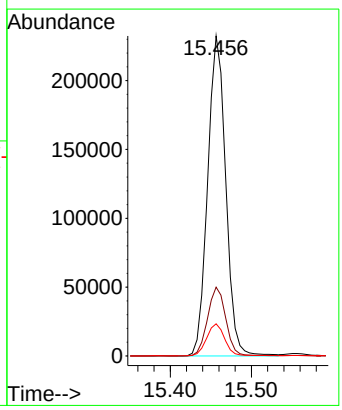


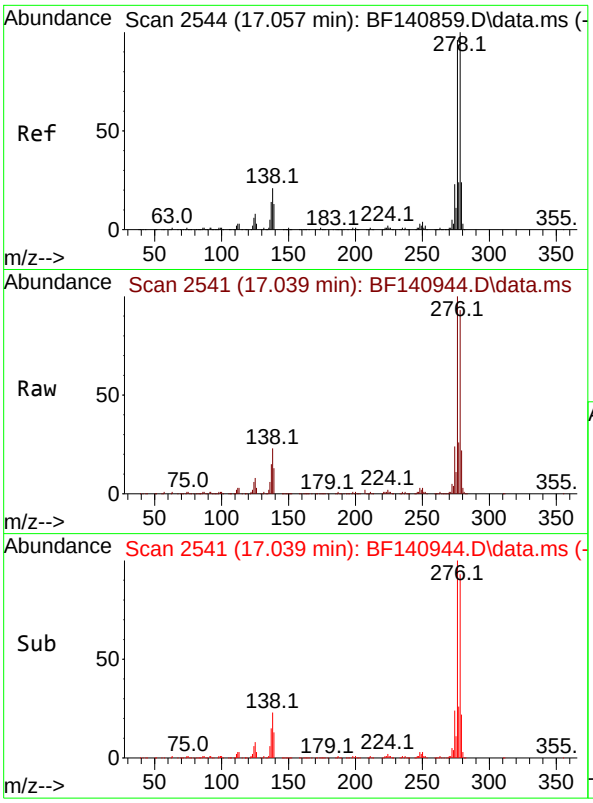


#90
Benzo(a)pyrene
Concen: 58.181 ng
RT: 15.456 min Scan# 2272
Delta R.T. -0.024 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:252 Resp: 359761

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.0	7.5	11.3



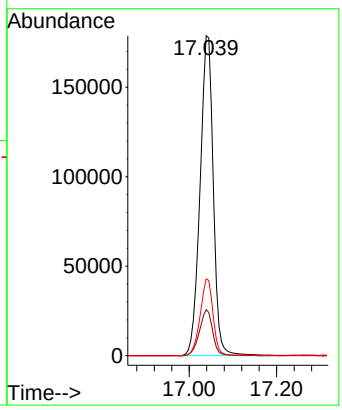


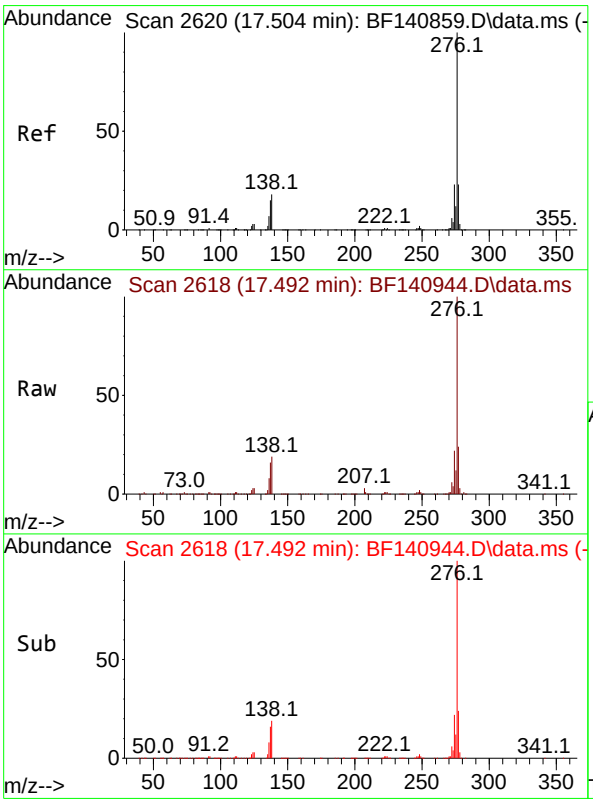
#91
Dibenzo(a,h)anthracene
Concen: 64.223 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Instrument :
BNA_F
ClientSampleId :
PB165705BS

Tgt Ion:278 Resp: 377716

Ion	Ratio	Lower	Upper
278	100		
139	14.4	10.6	16.0
279	24.0	19.2	28.8

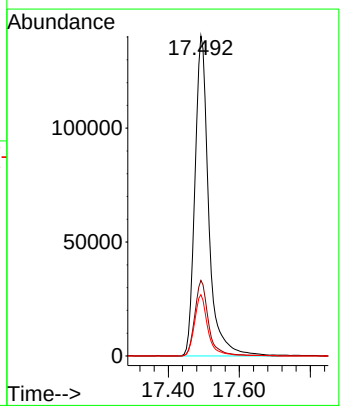




#92
Benzo(g,h,i)perylene
Concen: 63.386 ng
RT: 17.492 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF140944.D
Acq: 20 Dec 2024 12:07

Tgt Ion:276 Resp: 379421

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.7	28.1
138	19.2	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140948.D
Acq On : 20 Dec 2024 14:10
Operator : RC/JU
Sample : P5306-09MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Quant Time: Dec 20 14:38:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	55385	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	209218	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	115521	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	219277	20.000	ng		0.00
76) Chrysene-d12	14.033	240	133308	20.000	ng		0.00
86) Perylene-d12	15.521	264	114231	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	442109	131.406	ng		0.01
7) Phenol-d6	6.504	99	599050	134.430	ng		0.00
23) Nitrobenzene-d5	7.416	82	372228	89.012	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	167201	122.376	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	705412	83.953	ng		0.00
79) Terphenyl-d14	12.963	244	769721	91.048	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.710	88	57898	39.952	ng		98
3) Pyridine	3.487	79	147343	43.903	ng		98
4) n-Nitrosodimethylamine	3.440	42	73891	43.674	ng		95
6) Aniline	6.516	93	152345	39.984	ng	#	72
8) 2-Chlorophenol	6.645	128	202633	55.230	ng		99
9) Benzaldehyde	6.410	77	38178	15.462	ng		92
10) Phenol	6.516	94	259118	56.104	ng		97
11) bis(2-Chloroethyl)ether	6.587	93	180043	52.272	ng		99
12) 1,3-Dichlorobenzene	6.787	146	210487	50.348	ng		98
13) 1,4-Dichlorobenzene	6.869	146	216818	51.092	ng		98
14) 1,2-Dichlorobenzene	7.016	146	203761	50.890	ng		99
15) Benzyl Alcohol	7.004	79	175492	55.078	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.116	45	208259	51.327	ng		91
17) 2-Methylphenol	7.122	107	160183	54.685	ng		99
18) Hexachloroethane	7.351	117	77377	48.978	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	140269	52.475	ng		97
20) 3+4-Methylphenols	7.275	107	218873	56.350	ng	#	80
22) Acetophenone	7.263	105	281478	53.782	ng		94
24) Nitrobenzene	7.440	77	213867	49.921	ng		95
25) Isophorone	7.675	82	358474	51.161	ng		99
26) 2-Nitrophenol	7.751	139	110125	55.813	ng		95
27) 2,4-Dimethylphenol	7.792	122	151216	65.624	ng		99
28) bis(2-Chloroethoxy)met...	7.875	93	221616	50.641	ng		99
29) 2,4-Dichlorophenol	8.004	162	170278	53.525	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	174689	47.901	ng		99
31) Naphthalene	8.151	128	576356	50.150	ng		100
32) Benzoic acid	7.945	122	79916	36.568	ng		95
33) 4-Chloroaniline	8.210	127	86711	22.717	ng		98
34) Hexachlorobutadiene	8.263	225	112396	45.808	ng		99
35) Caprolactam	8.592	113	38523	40.675	ng		90
36) 4-Chloro-3-methylphenol	8.704	107	176282	49.233	ng		100
37) 2-Methylnaphthalene	8.845	142	369738	48.635	ng		100
38) 1-Methylnaphthalene	8.945	142	347475	46.215	ng		100
40) 1,2,4,5-Tetrachloroben...	9.010	216	184825	52.053	ng		99
41) Hexachlorocyclopentadiene	8.992	237	34644	40.992	ng		98
43) 2,4,6-Trichlorophenol	9.134	196	110805	50.964	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140948.D
Acq On : 20 Dec 2024 14:10
Operator : RC/JU
Sample : P5306-09MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Quant Time: Dec 20 14:38:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

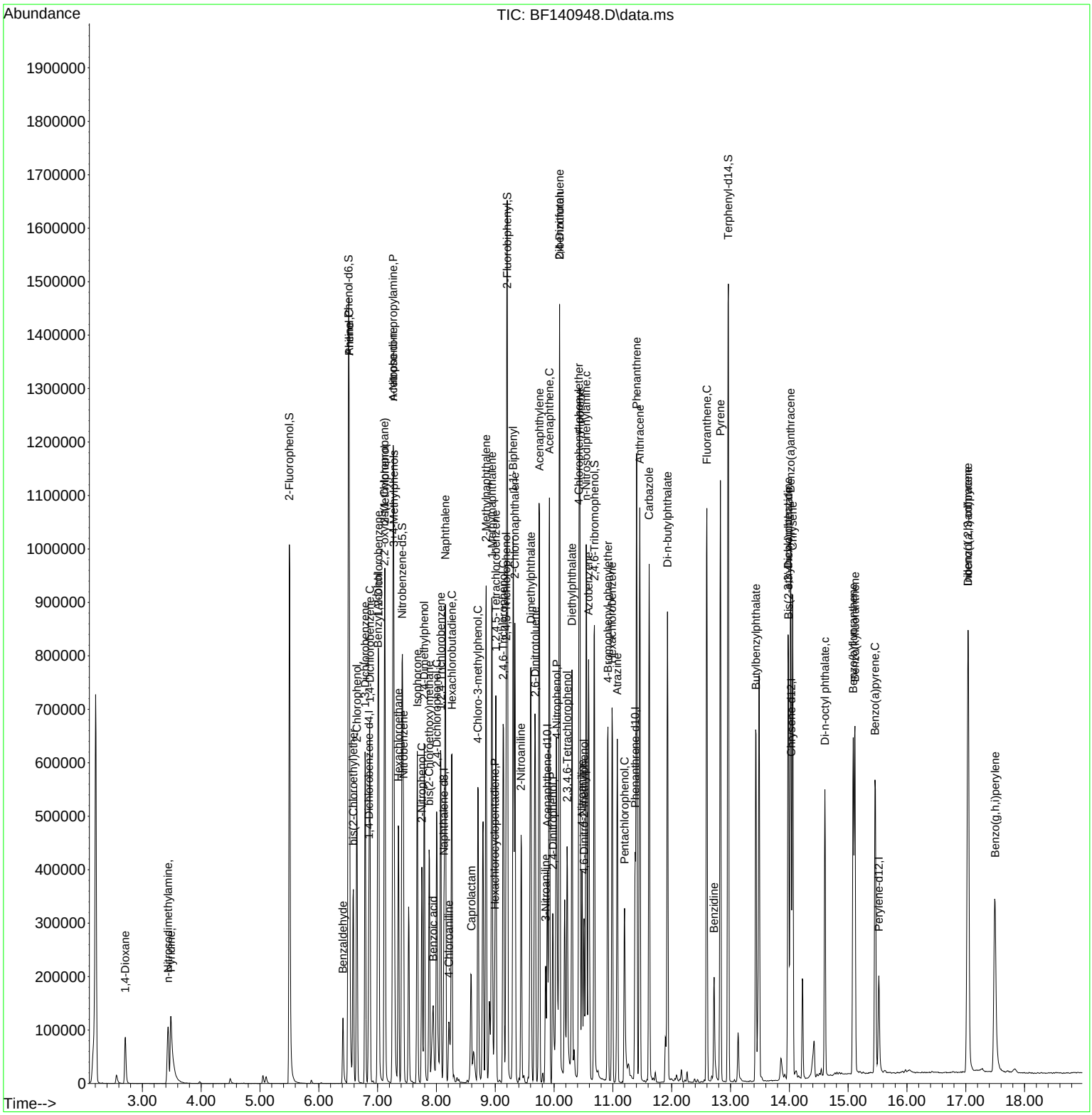
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	117901	49.337	ng	99
46) 1,1'-Biphenyl	9.304	154	472666	51.455	ng	99
47) 2-Chloronaphthalene	9.334	162	352165	50.113	ng	99
48) 2-Nitroaniline	9.439	65	109079	51.395	ng	94
49) Acenaphthylene	9.751	152	576620	55.834	ng	99
50) Dimethylphthalate	9.604	163	409034	50.222	ng	100
51) 2,6-Dinitrotoluene	9.681	165	92478	49.668	ng	94
52) Acenaphthene	9.922	154	351200	53.237	ng	99
53) 3-Nitroaniline	9.857	138	55538	30.057	ng	94
54) 2,4-Dinitrophenol	9.981	184	87671	95.155	ng	90
55) Dibenzofuran	10.092	168	537457	52.577	ng	99
56) 4-Nitrophenol	10.045	139	83327	83.625	ng	98
57) 2,4-Dinitrotoluene	10.092	165	127795	52.166	ng	98
58) Fluorene	10.439	166	428757	50.841	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	101786	52.272	ng	92
60) Diethylphthalate	10.304	149	405299	47.990	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	212840	50.243	ng	96
62) 4-Nitroaniline	10.475	138	90228	46.729	ng	95
63) Azobenzene	10.586	77	429196	54.056	ng	94
65) 4,6-Dinitro-2-methylph...	10.510	198	70374	56.637	ng	94
66) n-Nitrosodiphenylamine	10.545	169	372378	55.234	ng	100
67) 4-Bromophenyl-phenylether	10.916	248	124883	50.908	ng	97
68) Hexachlorobenzene	10.986	284	138231	49.700	ng	98
69) Atrazine	11.075	200	116856	62.062	ng	99
70) Pentachlorophenol	11.198	266	78972	77.662	ng	98
71) Phenanthrene	11.404	178	628319	55.721	ng	99
72) Anthracene	11.457	178	597017	53.762	ng	100
73) Carbazole	11.616	167	569460	52.355	ng	99
74) Di-n-butylphthalate	11.928	149	638255	49.999	ng	99
75) Fluoranthene	12.598	202	637105	49.060	ng	100
77) Benzidine	12.722	184	125211	46.021	ng	99
78) Pyrene	12.827	202	665883	56.171	ng	99
80) Butylbenzylphthalate	13.433	149	231762	53.133	ng	96
81) Benzo(a)anthracene	14.021	228	492886	52.168	ng	99
82) 3,3'-Dichlorobenzidine	13.980	252	81414	28.561	ng	97
83) Chrysene	14.057	228	441907	51.436	ng	99
84) Bis(2-ethylhexyl)phtha...	13.986	149	267856	47.624	ng	99
85) Di-n-octyl phthalate	14.604	149	365090	42.906	ng	98
87) Indeno(1,2,3-cd)pyrene	17.039	276	474317	66.539	ng	99
88) Benzo(b)fluoranthene	15.086	252	381086	48.060	ng	100
89) Benzo(k)fluoranthene	15.116	252	373879	54.968	ng	100
90) Benzo(a)pyrene	15.457	252	355872	57.316	ng	99
91) Dibenzo(a,h)anthracene	17.039	278	390092	66.055	ng	99
92) Benzo(g,h,i)perylene	17.498	276	373367	62.119	ng	99

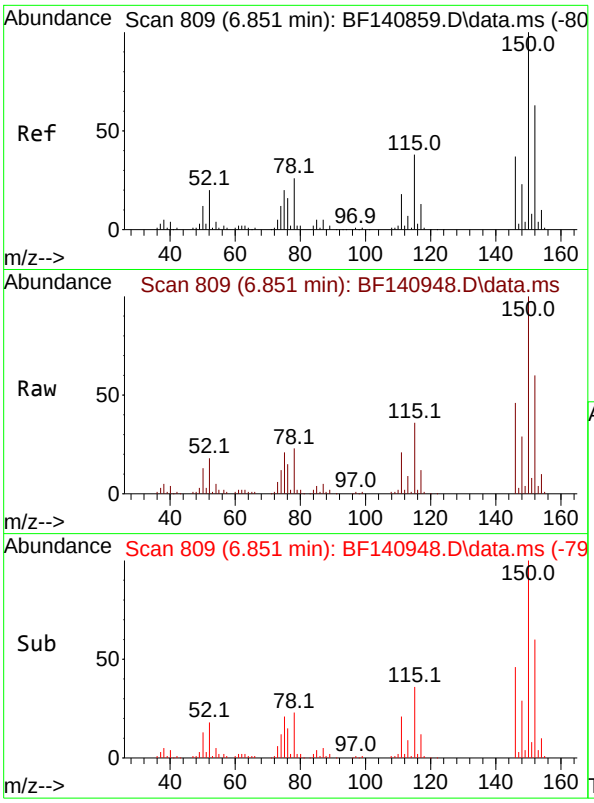
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140948.D
Acq On : 20 Dec 2024 14:10
Operator : RC/JU
Sample : P5306-09MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Quant Time: Dec 20 14:38:33 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



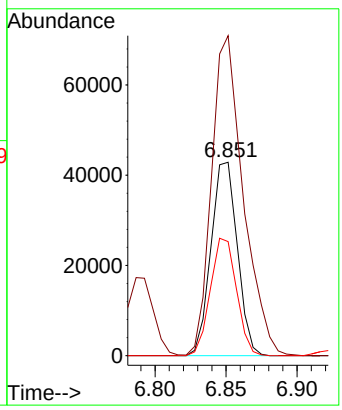


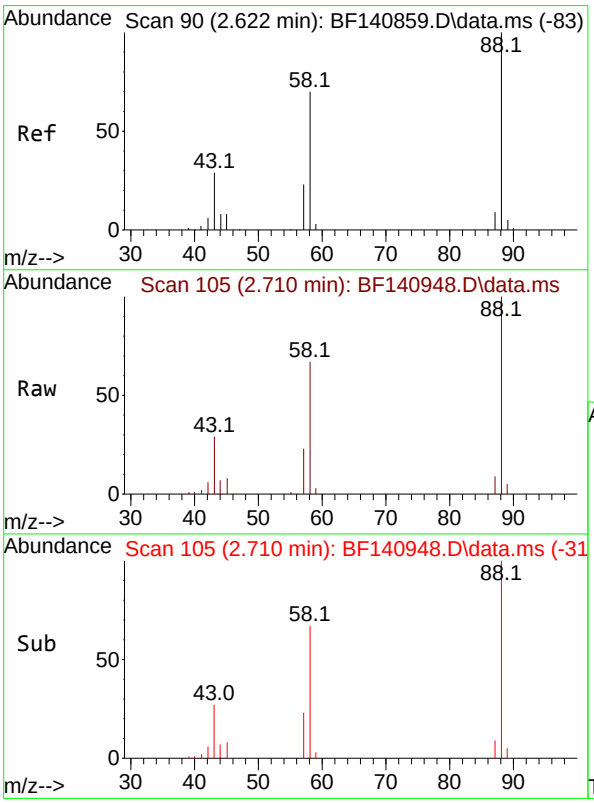
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:152 Resp: 55385

Ion	Ratio	Lower	Upper
152	100		
150	165.5	127.9	191.9
115	59.0	48.0	72.0

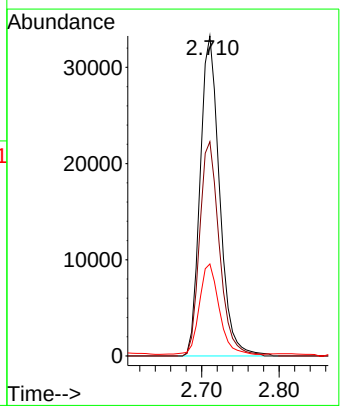


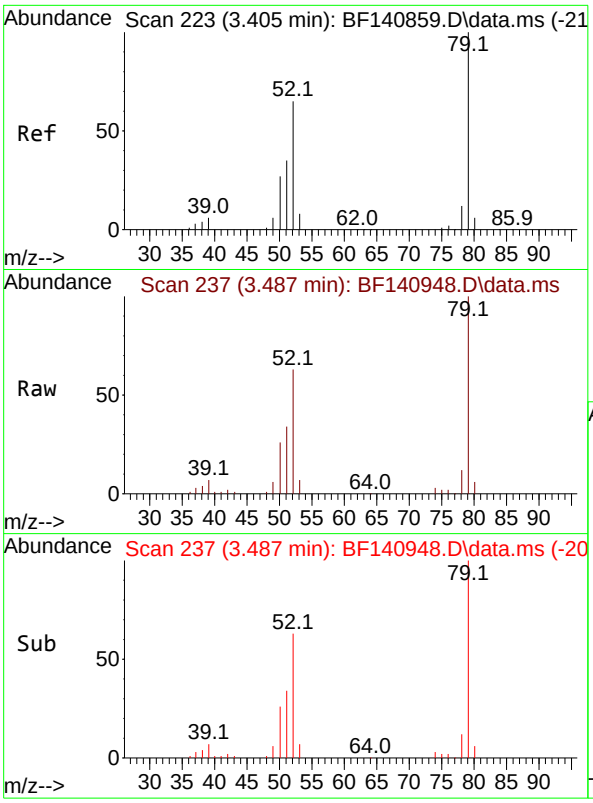


#2
1,4-Dioxane
Concen: 39.952 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.088 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 88 Resp: 57898

Ion	Ratio	Lower	Upper
88	100		
58	68.2	55.8	83.8
43	29.7	22.7	34.1



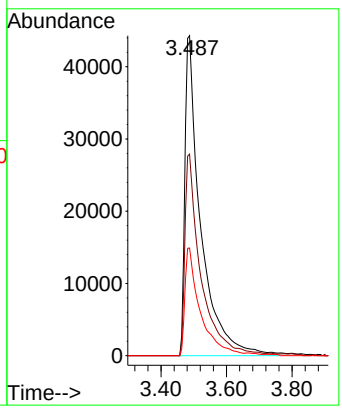


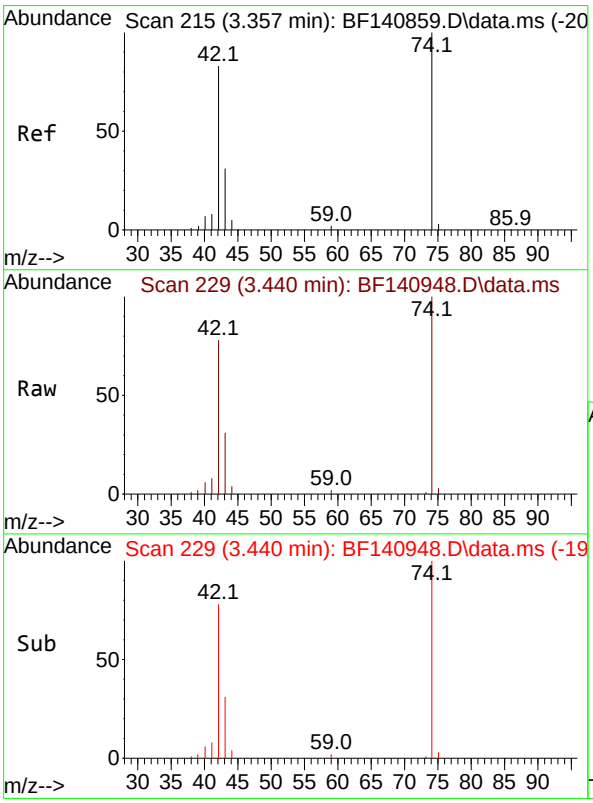
#3
Pyridine
Concen: 43.903 ng
RT: 3.487 min Scan# 2
Delta R.T. 0.082 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 79 Resp: 147343

Ion	Ratio	Lower	Upper
79	100		
52	63.0	51.7	77.5
51	33.7	28.2	42.4

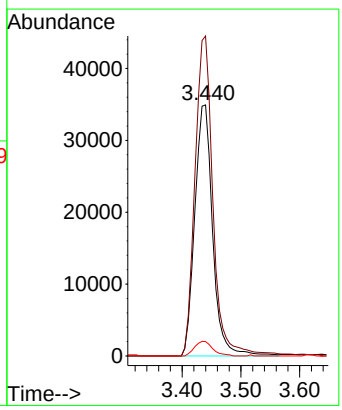


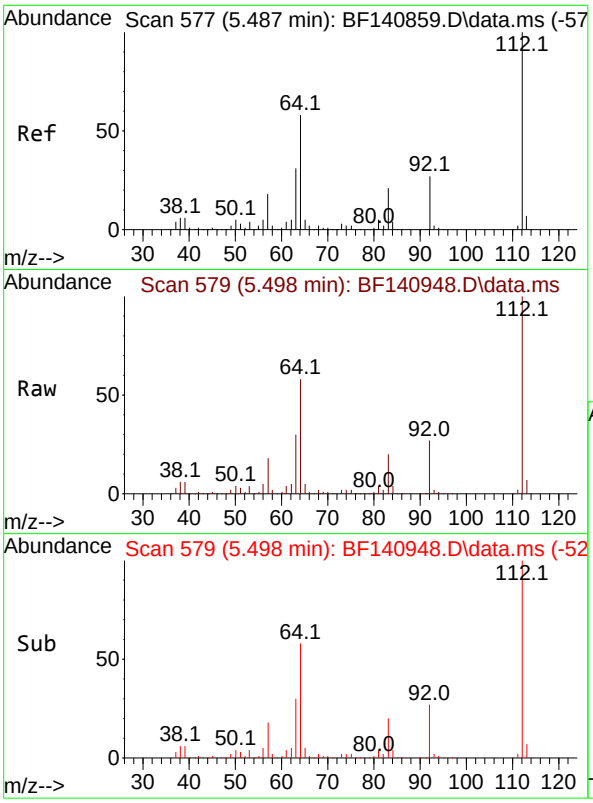


#4
n-Nitrosodimethylamine
Concen: 43.674 ng
RT: 3.440 min Scan# 229
Delta R.T. 0.082 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 42 Resp: 73891

Ion	Ratio	Lower	Upper
42	100		
74	127.4	96.9	145.3
44	5.7	4.4	6.6



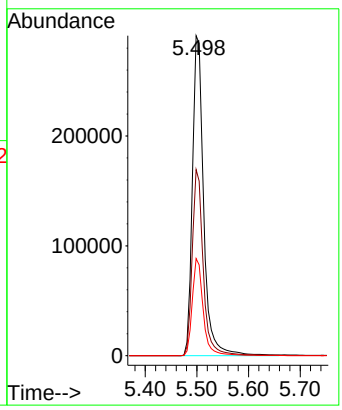


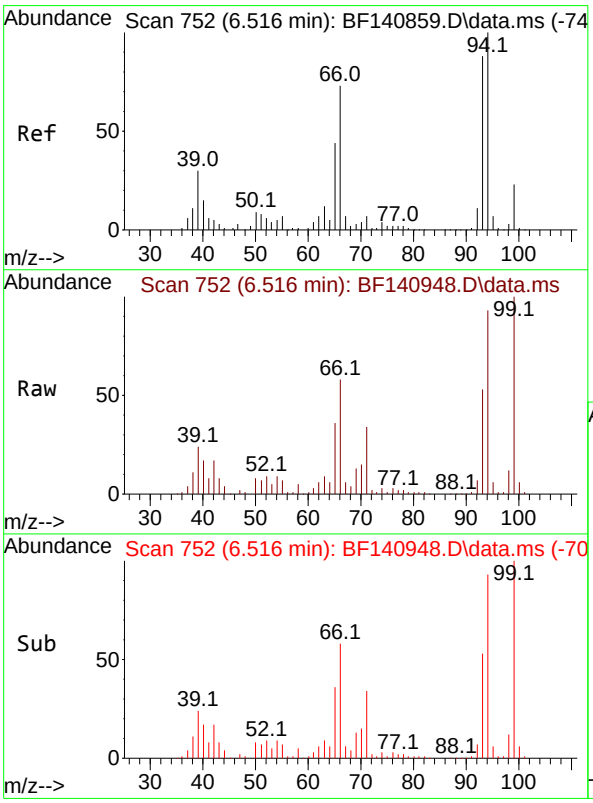
#5
2-Fluorophenol
Concen: 131.406 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:112 Resp: 442109

Ion	Ratio	Lower	Upper
112	100		
64	58.2	46.1	69.1
63	30.3	24.9	37.3

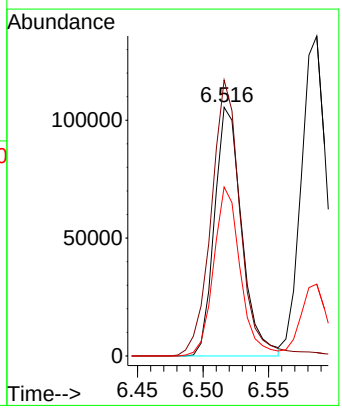


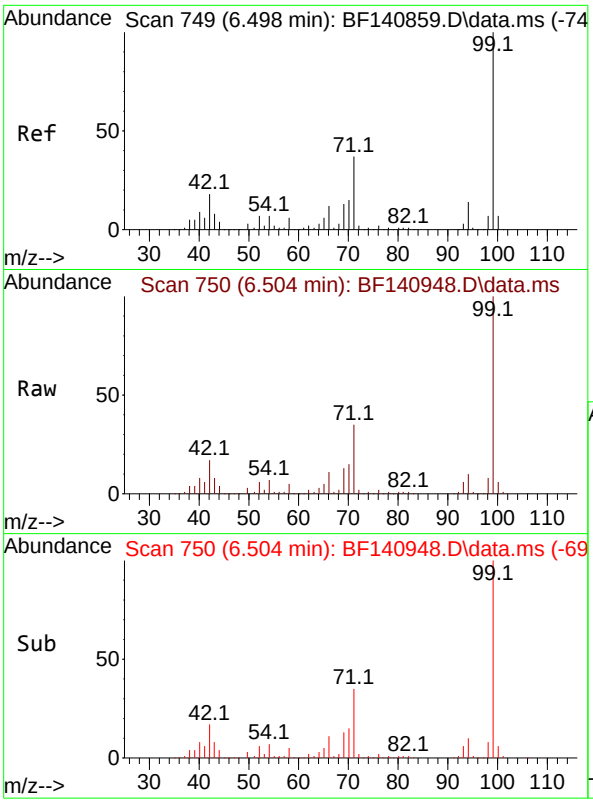


#6
Aniline
Concen: 39.984 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 93 Resp: 152345

Ion	Ratio	Lower	Upper
93	100		
66	111.0	67.0	100.4#
65	67.9	40.4	60.6#



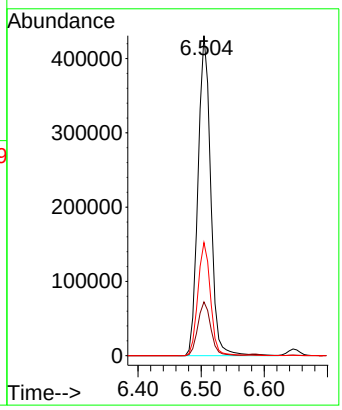


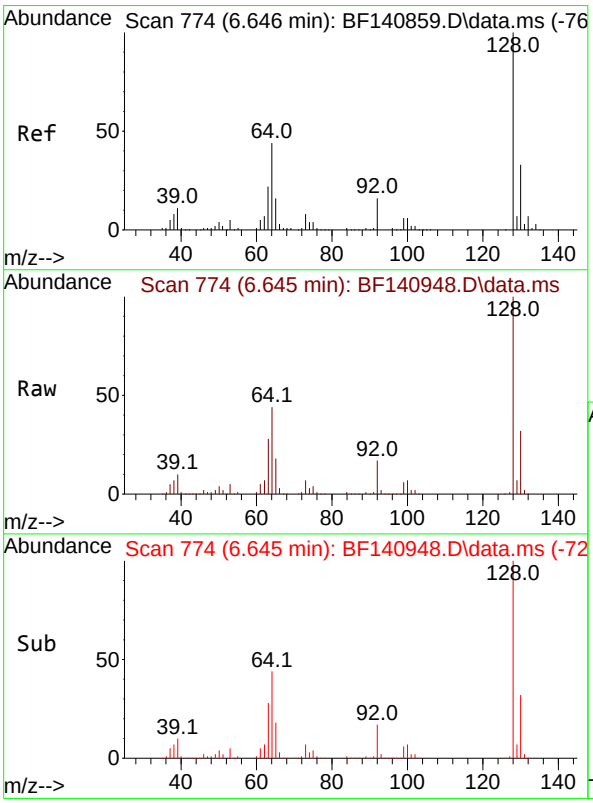
#7
Phenol-d6
Concen: 134.430 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 99 Resp: 599050

Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.3	21.5
71	35.4	29.9	44.9

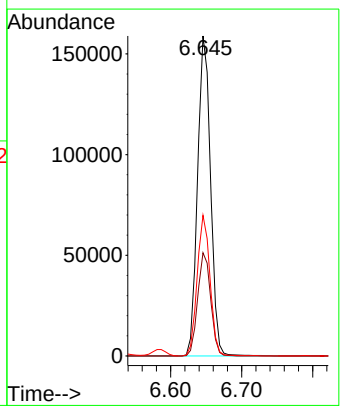


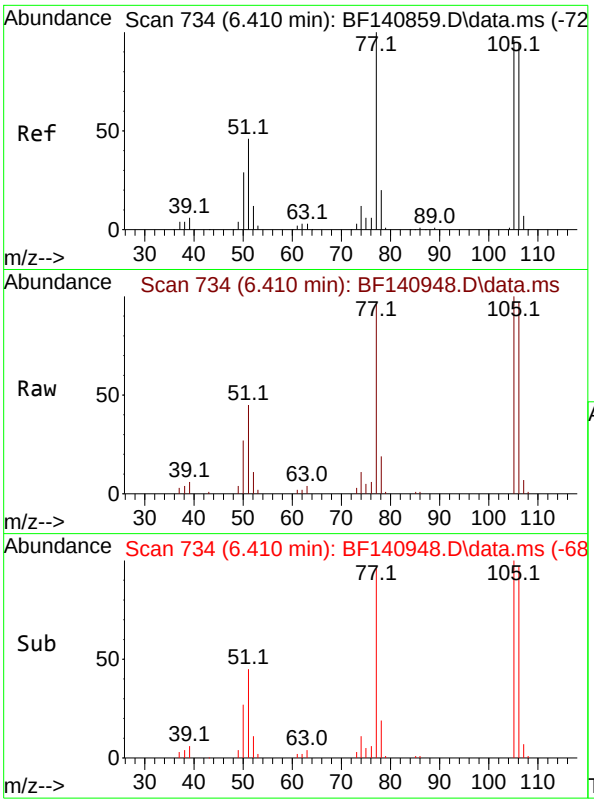


#8
2-Chlorophenol
Concen: 55.230 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:128 Resp: 202633

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.9	52.9
64	44.0	24.3	64.3



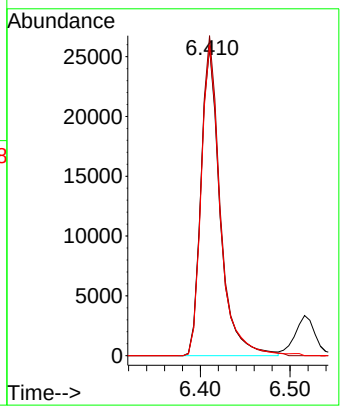


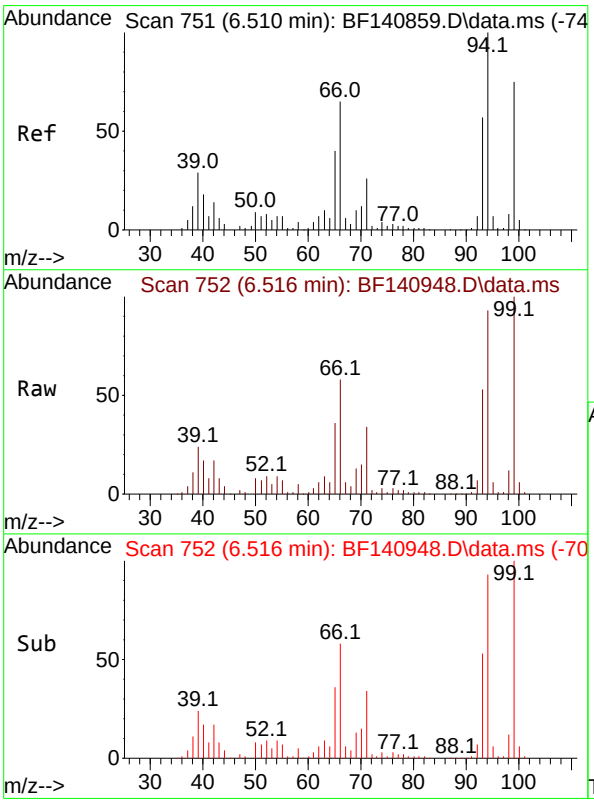
#9
Benzaldehyde
Concen: 15.462 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 77 Resp: 38178

Ion	Ratio	Lower	Upper
77	100		
105	104.0	75.8	115.8
106	100.9	74.1	114.1

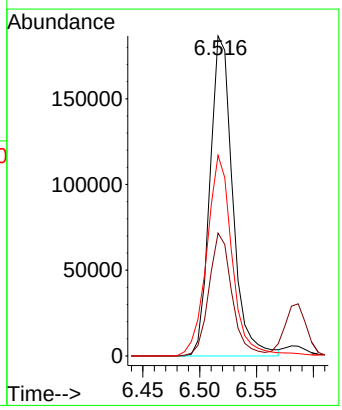


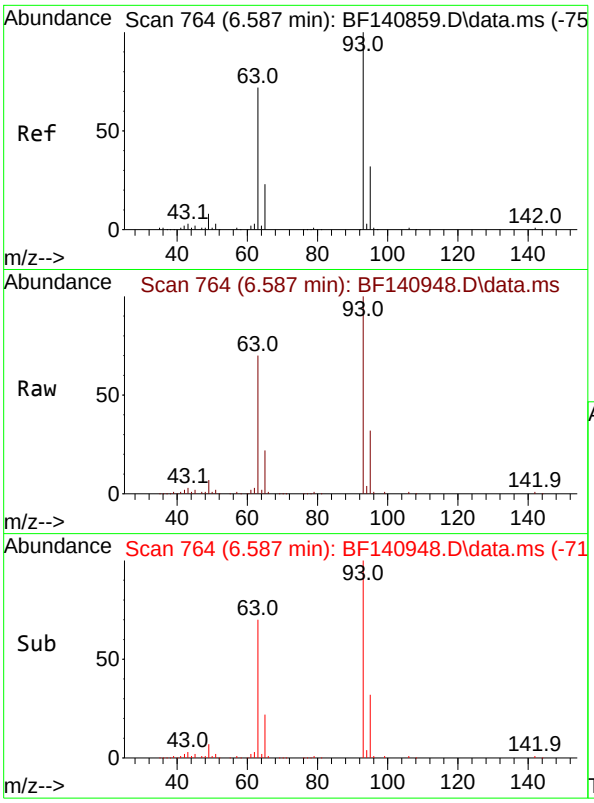


#10
Phenol
Concen: 56.104 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 94 Resp: 259118

Ion	Ratio	Lower	Upper
94	100		
65	38.4	19.9	59.9
66	62.7	45.6	85.6



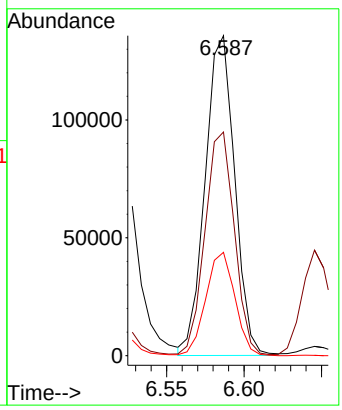


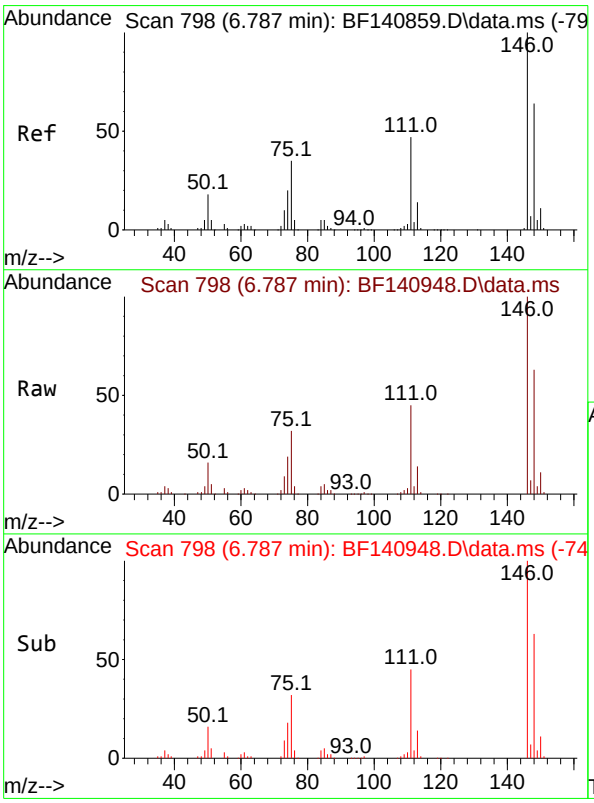
#11
bis(2-Chloroethyl)ether
Concen: 52.272 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 93 Resp: 180043

Ion	Ratio	Lower	Upper
93	100		
63	69.9	51.0	91.0
95	32.3	12.0	52.0

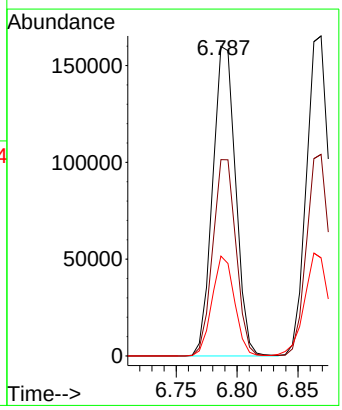


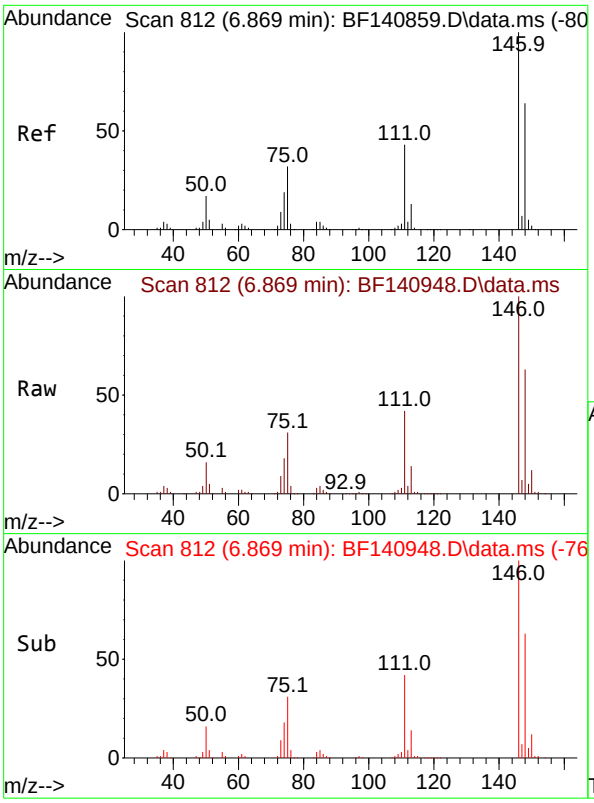


#12
1,3-Dichlorobenzene
Concen: 50.348 ng
RT: 6.787 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:146 Resp: 210487

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.6
75	32.2	28.1	42.1



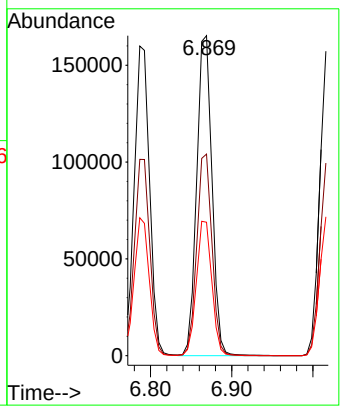


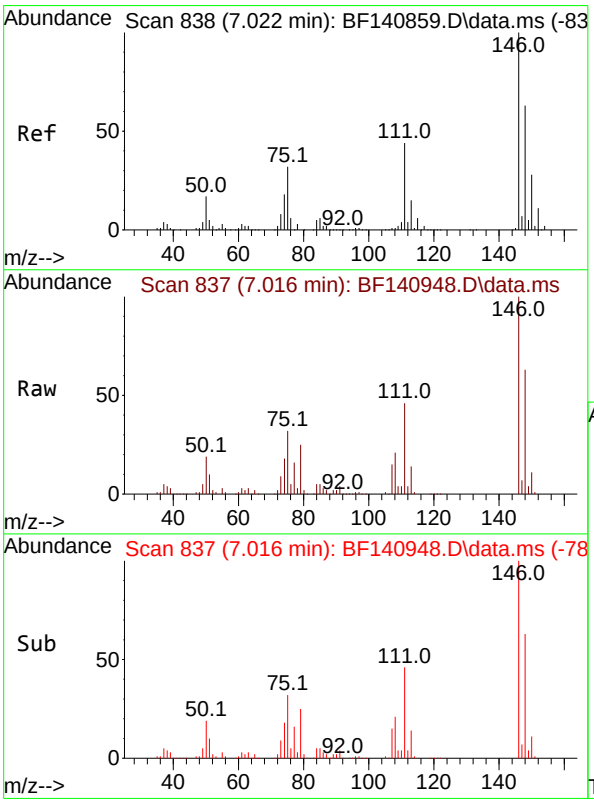
#13
1,4-Dichlorobenzene
Concen: 51.092 ng
RT: 6.869 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:146 Resp: 216818

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.3	76.9
111	41.7	34.4	51.6

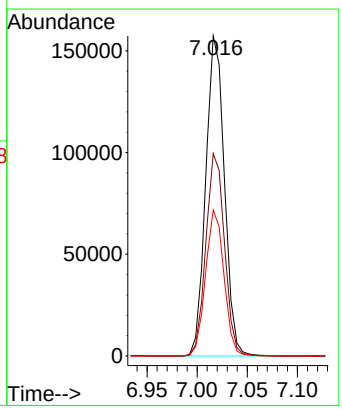


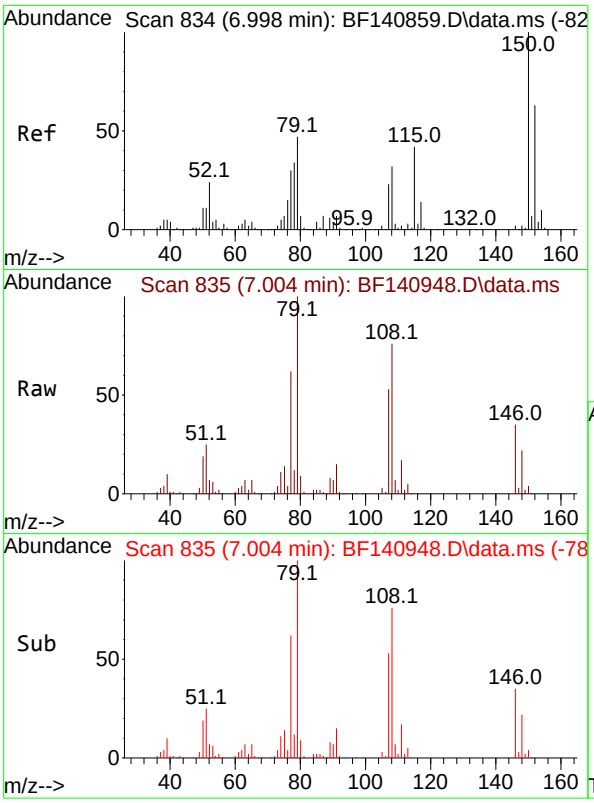


#14
1,2-Dichlorobenzene
Concen: 50.890 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:146 Resp: 203761

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.0	75.0
111	45.6	35.6	53.4



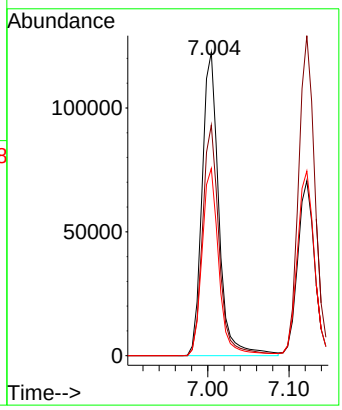


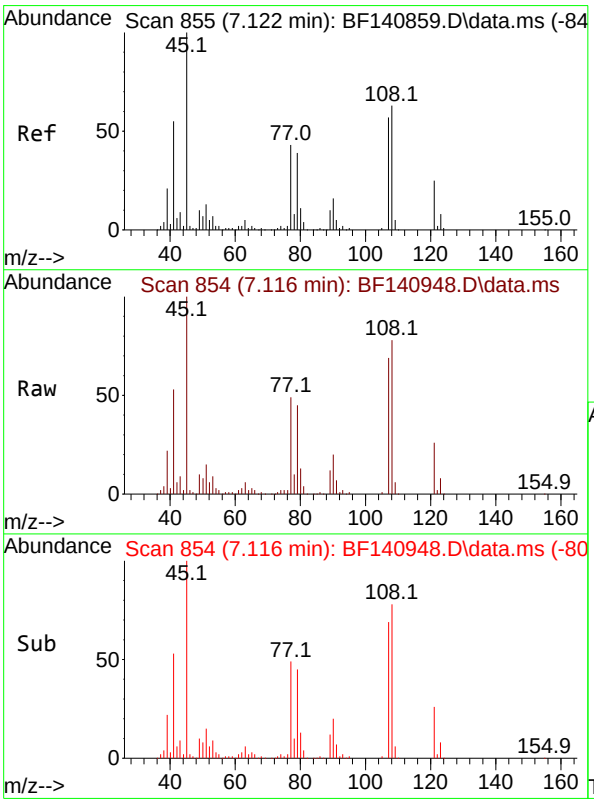
#15
Benzyl Alcohol
Concen: 55.078 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 79 Resp: 175492

Ion	Ratio	Lower	Upper
79	100		
108	76.0	55.1	82.7
77	61.7	50.6	76.0

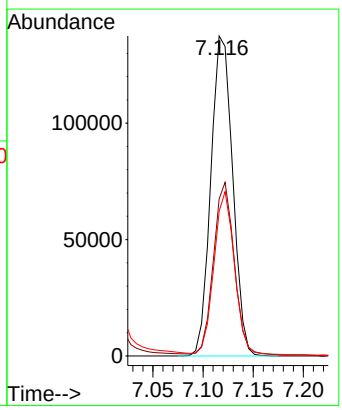


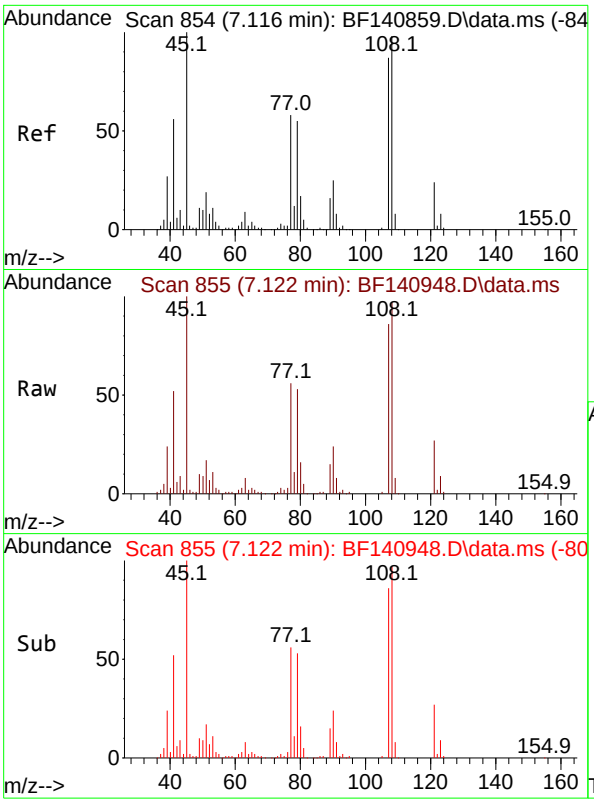


#16
2,2'-oxybis(1-Chloropropane)
Concen: 51.327 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 45 Resp: 208259

Ion	Ratio	Lower	Upper
45	100		
77	49.1	23.3	63.3
79	45.2	20.0	60.0



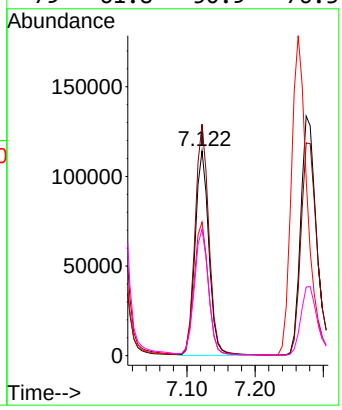


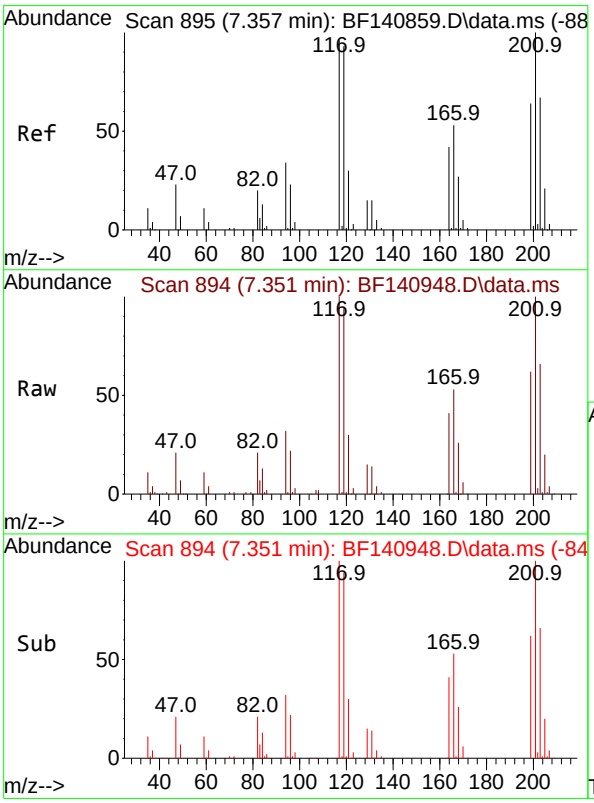
#17
2-Methylphenol
Concen: 54.685 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:107 Resp: 160183

Ion	Ratio	Lower	Upper
107	100		
108	113.0	90.2	135.4
77	65.2	53.8	80.6
79	61.8	50.9	76.3

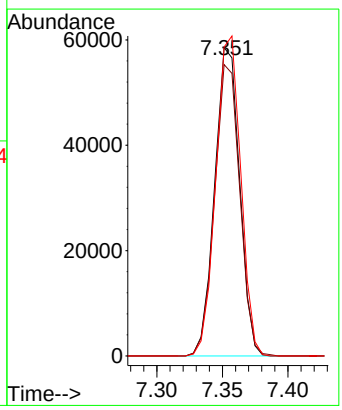


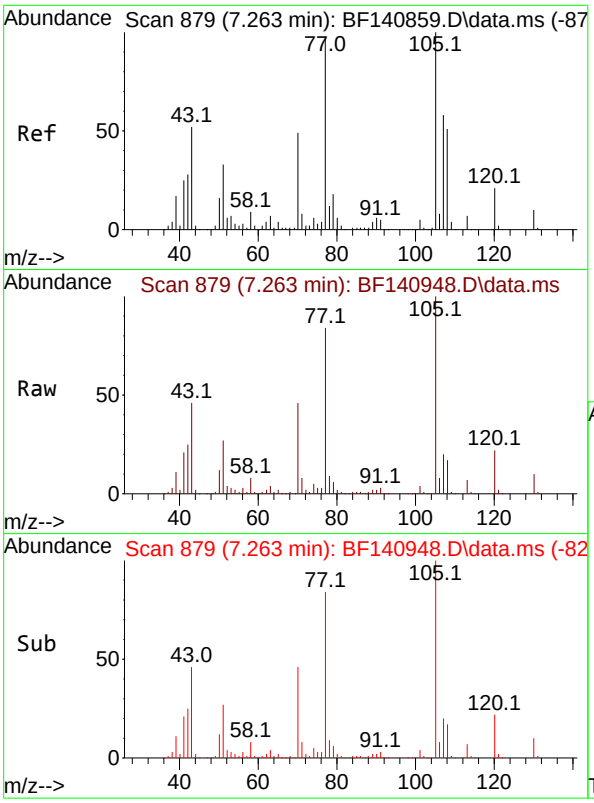


#18
Hexachloroethane
Concen: 48.978 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:117 Resp: 77377

Ion	Ratio	Lower	Upper
117	100		
119	94.5	77.4	116.0
201	100.2	83.4	125.0



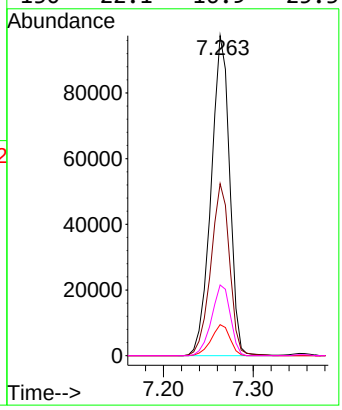


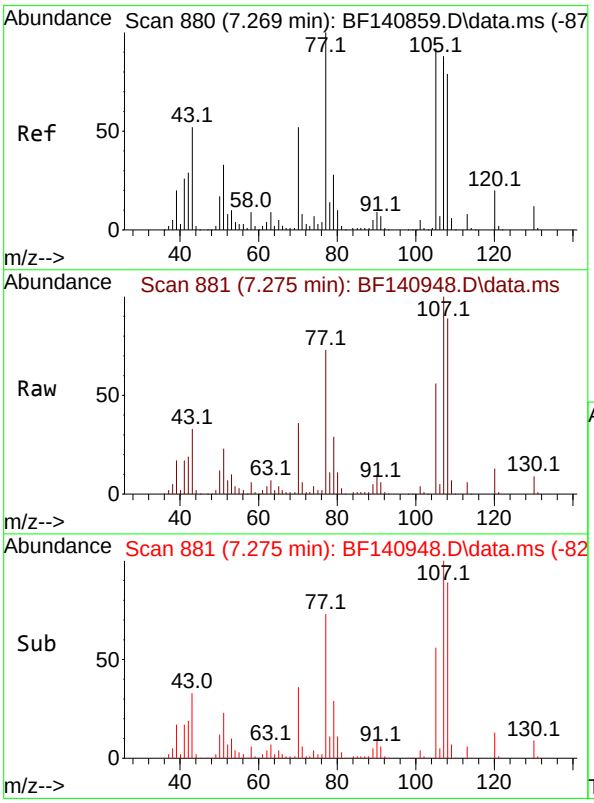
#19
n-Nitroso-di-n-propylamine
Concen: 52.475 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 70 Resp: 140269

Ion	Ratio	Lower	Upper
70	100		
42	53.8	45.3	67.9
101	9.7	8.0	12.0
130	22.1	16.9	25.3

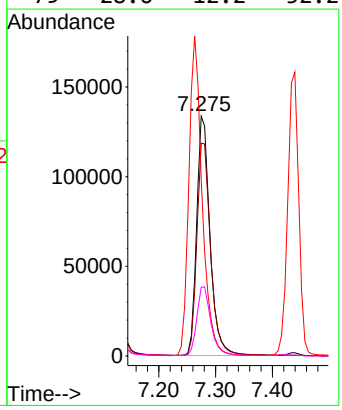


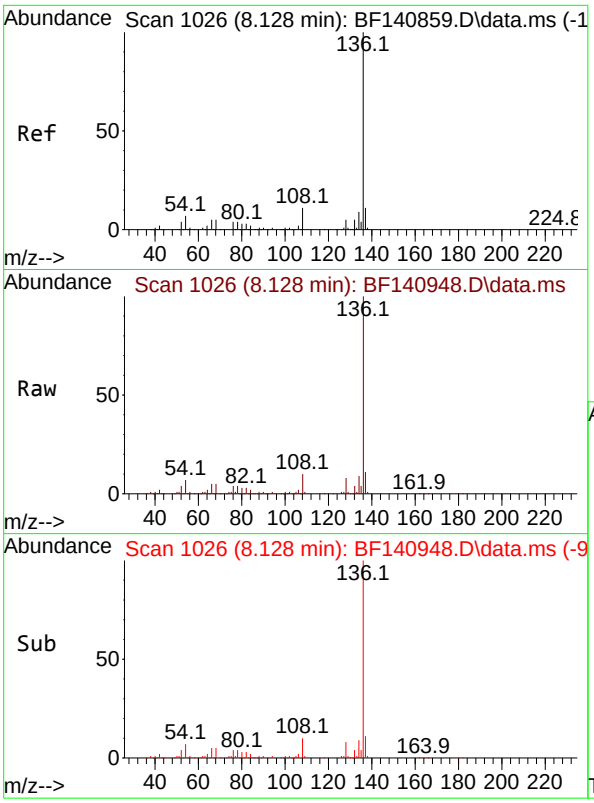


#20
3+4-Methylphenols
Concen: 56.350 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:107 Resp: 218873

Ion	Ratio	Lower	Upper
107	100		
108	88.8	70.1	110.1
77	73.3	94.4	134.4#
79	28.6	12.2	52.2



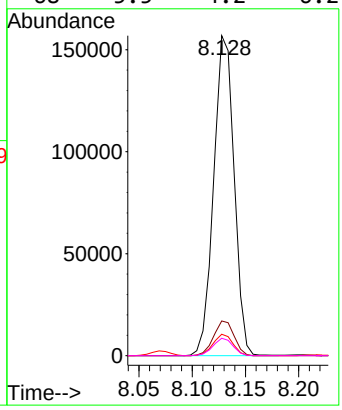


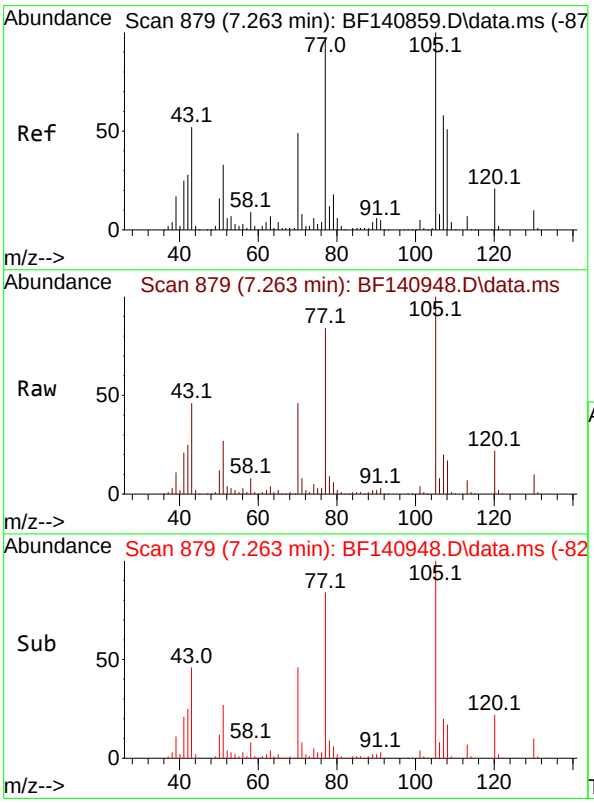
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:136 Resp: 209218

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.7	5.6	8.4
68	5.5	4.2	6.2

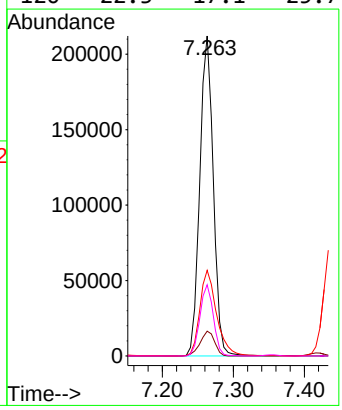


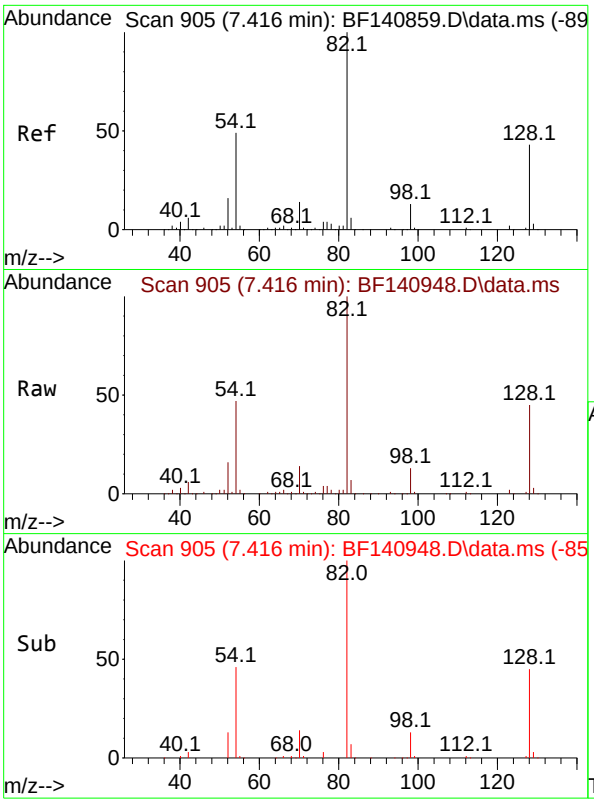


#22
Acetophenone
Concen: 53.782 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:105 Resp: 281478

Ion	Ratio	Lower	Upper
105	100		
71	7.8	6.2	9.4
51	26.7	26.3	39.5
120	22.3	17.1	25.7



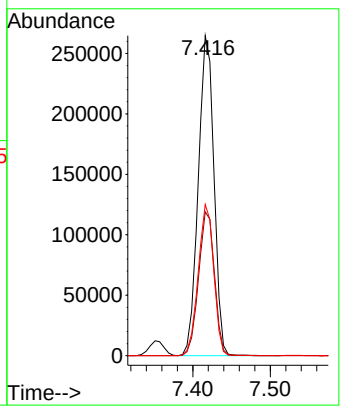


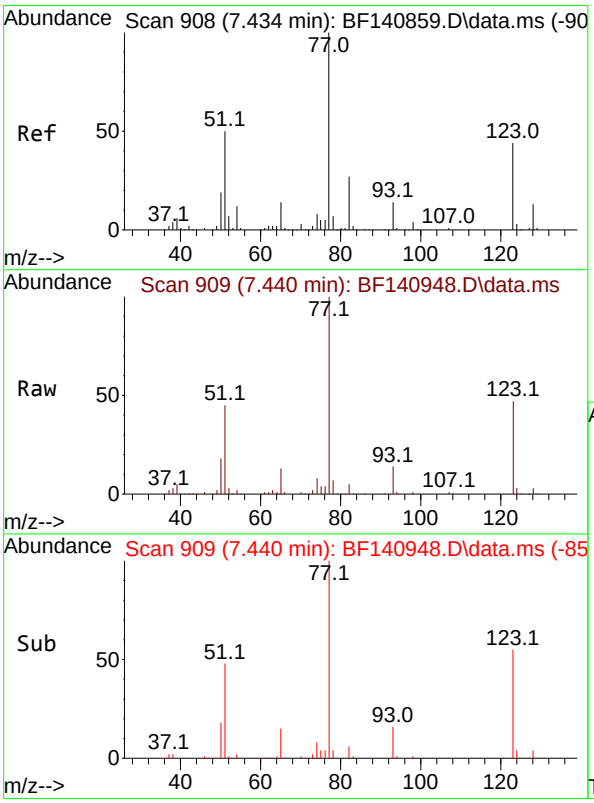
#23
Nitrobenzene-d5
Concen: 89.012 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 82 Resp: 372228

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.4	51.6
54	47.2	38.8	58.2

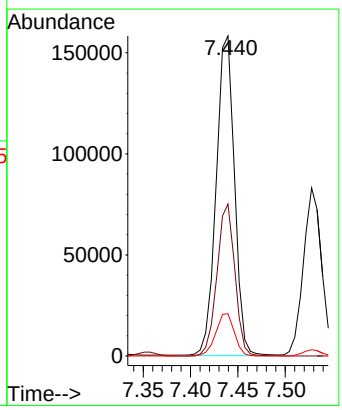


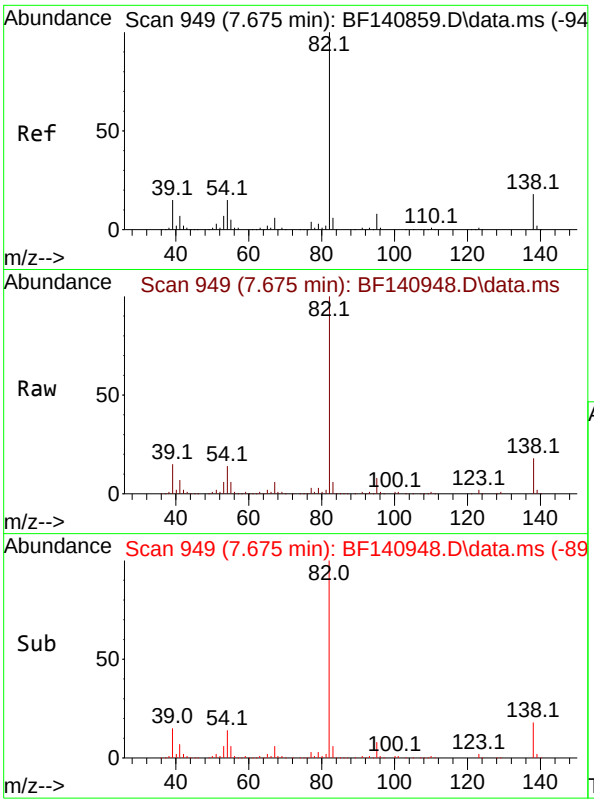


#24
Nitrobenzene
Concen: 49.921 ng
RT: 7.440 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 77 Resp: 213867

Ion	Ratio	Lower	Upper
77	100		
123	47.5	35.0	52.4
65	13.2	11.4	17.0



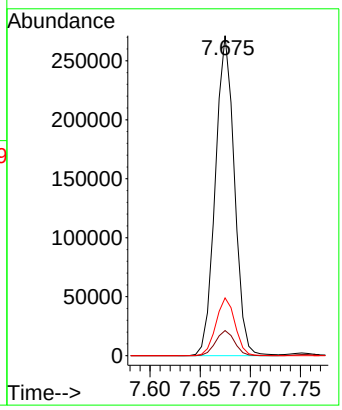


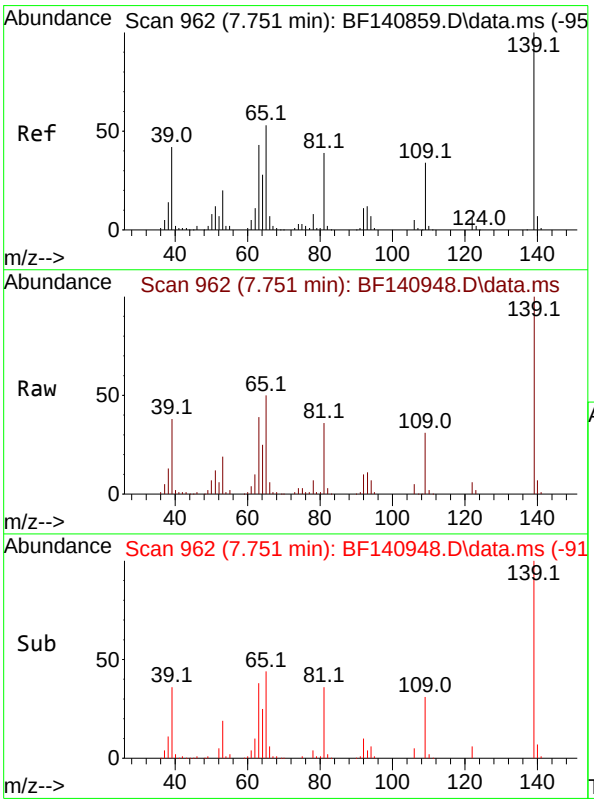
#25
Isophorone
Concen: 51.161 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 82 Resp: 358474

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	18.1	14.1	21.1

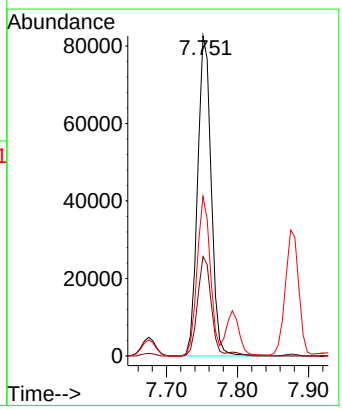


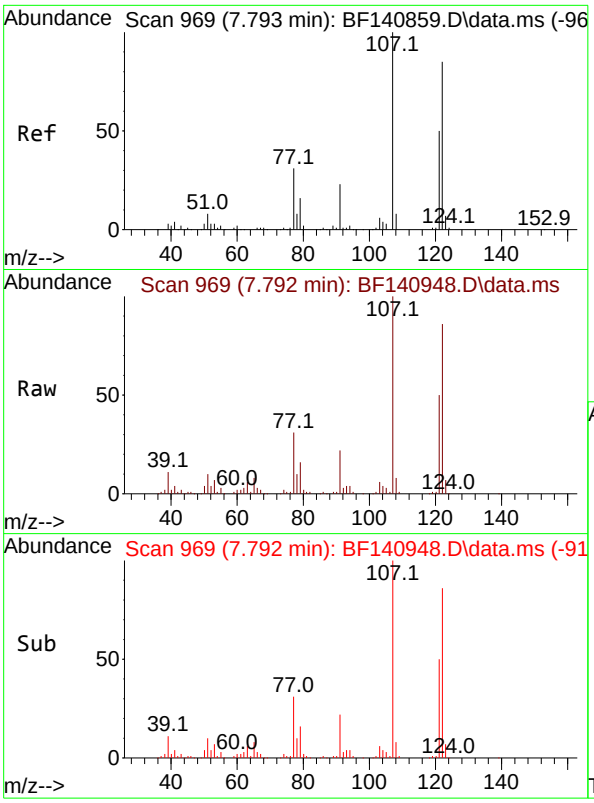


#26
2-Nitrophenol
Concen: 55.813 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:139 Resp: 110125

Ion	Ratio	Lower	Upper
139	100		
109	31.1	26.9	40.3
65	49.8	42.6	64.0



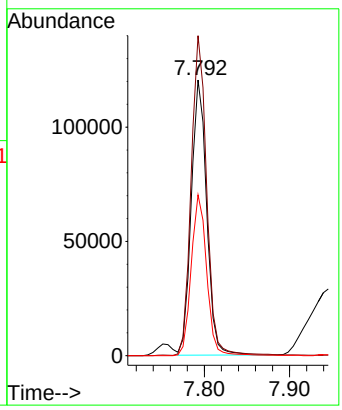


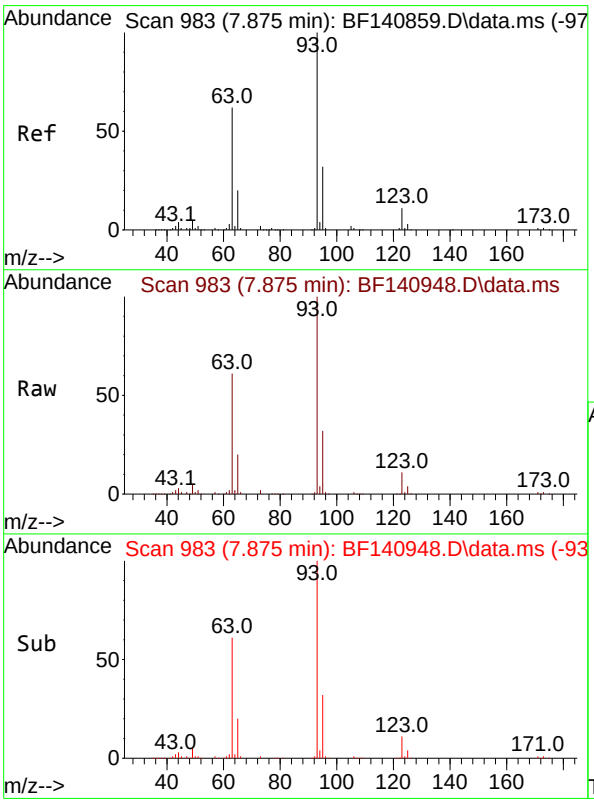
#27
2,4-Dimethylphenol
Concen: 65.624 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:122 Resp: 151216

Ion	Ratio	Lower	Upper
122	100		
107	116.1	92.6	139.0
121	58.3	45.8	68.8

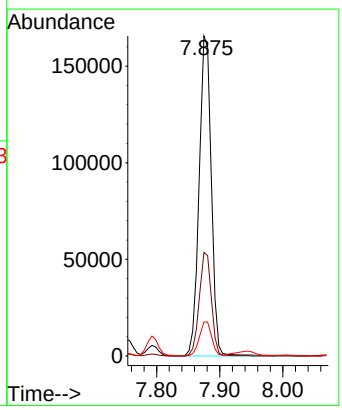


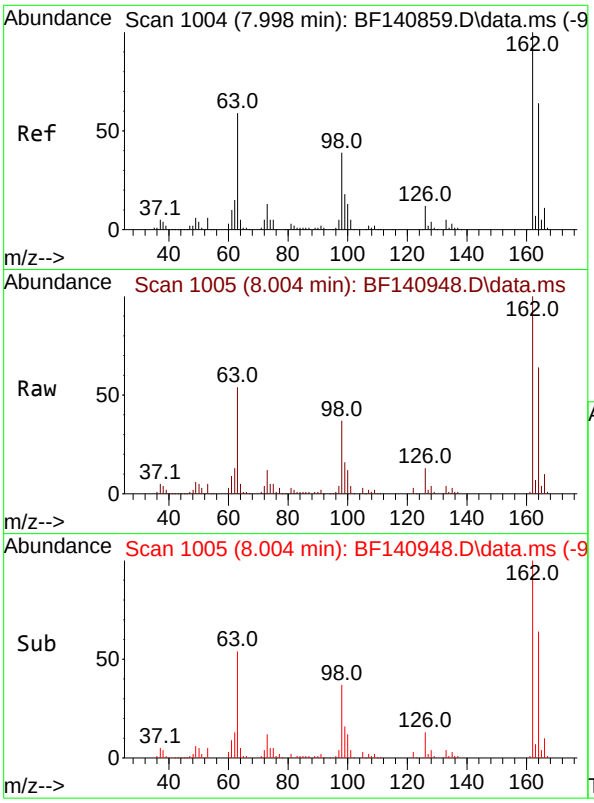


#28
bis(2-Chloroethoxy)methane
Concen: 50.641 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 93 Resp: 221616

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.3	37.9
123	10.6	8.6	13.0



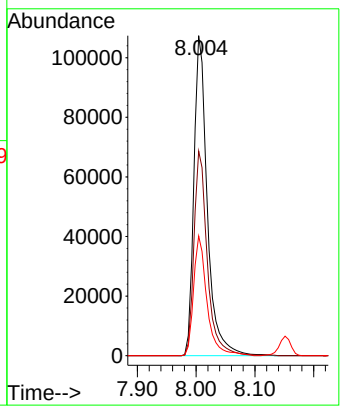


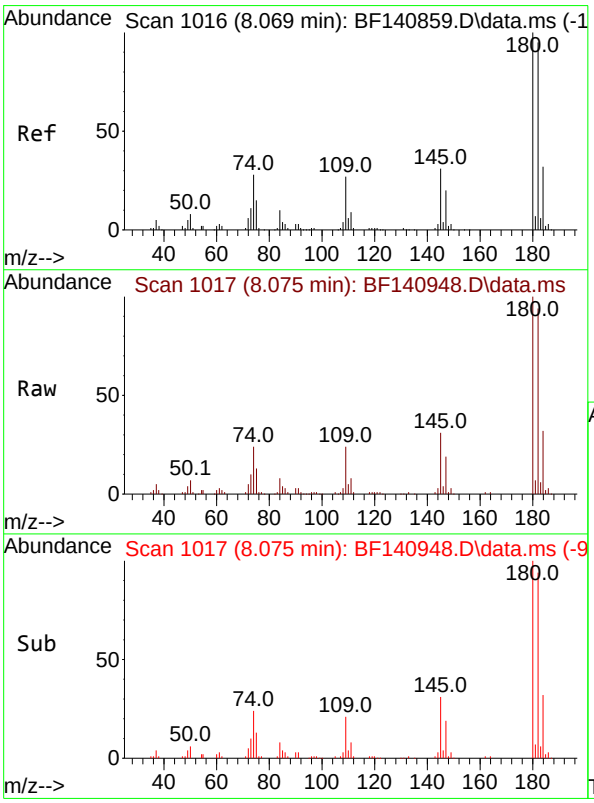
#29
2,4-Dichlorophenol
Concen: 53.525 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:162 Resp: 170278

Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.7	83.7
98	37.4	18.6	58.6

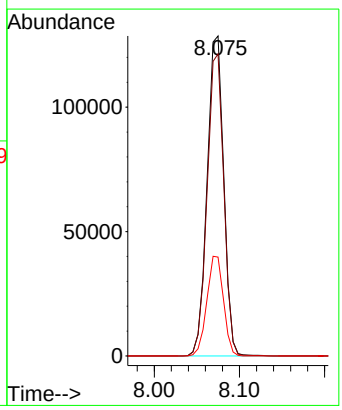


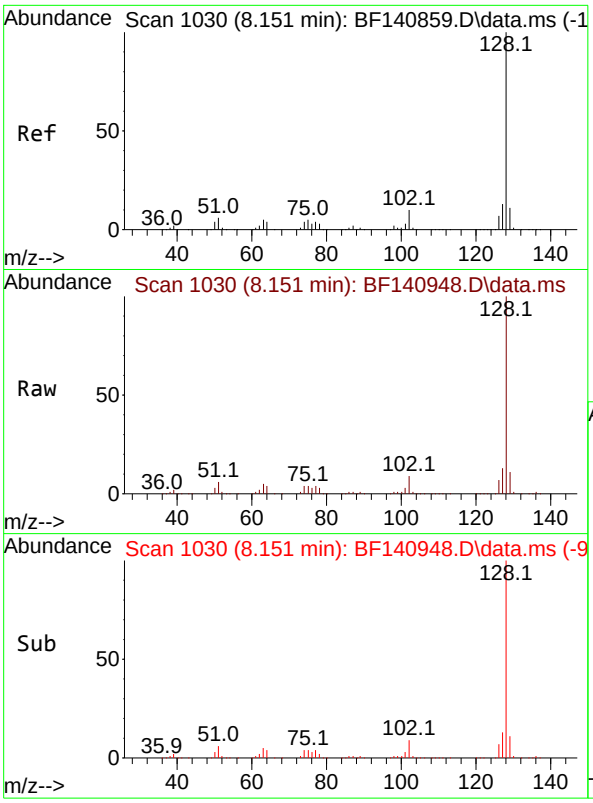


#30
1,2,4-Trichlorobenzene
Concen: 47.901 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:180 Resp: 174689

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.8	113.6
145	30.9	25.2	37.8



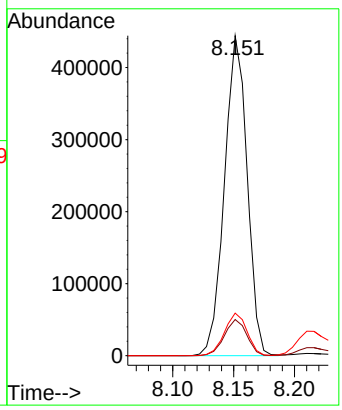


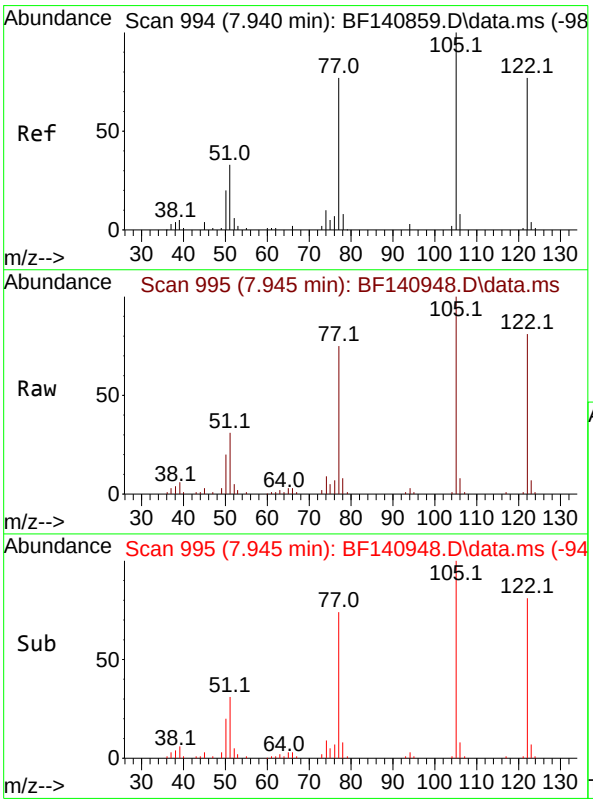
#31
Naphthalene
Concen: 50.150 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:128 Resp: 576356

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.3	10.6	16.0

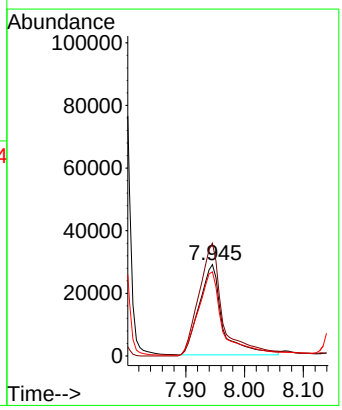


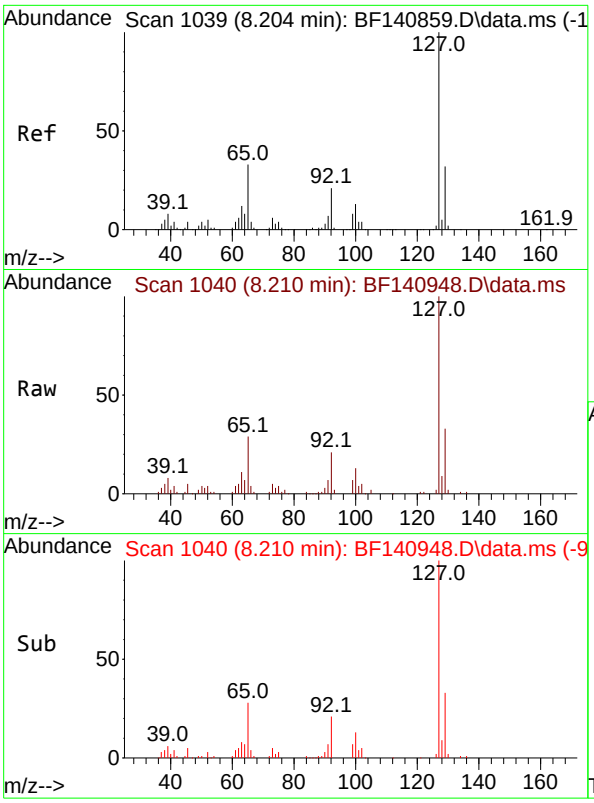


#32
Benzoic acid
Concen: 36.568 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.005 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:122 Resp: 79916

Ion	Ratio	Lower	Upper
122	100		
105	123.4	108.3	148.3
77	92.2	78.8	118.8



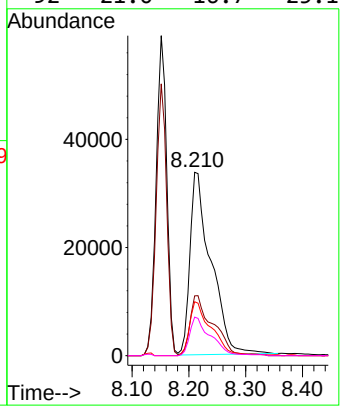


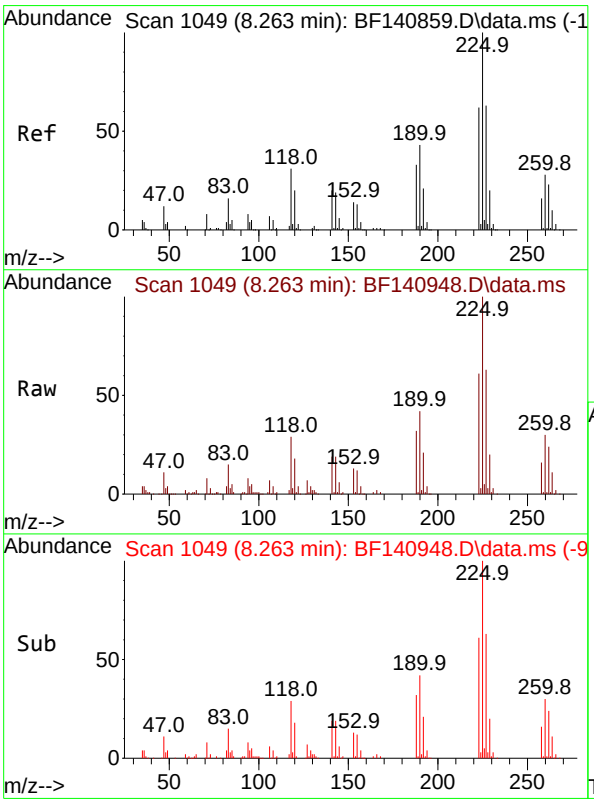
#33
4-Chloroaniline
Concen: 22.717 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:127 Resp: 86711

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.0	39.0
65	29.4	26.0	39.0
92	21.0	16.7	25.1

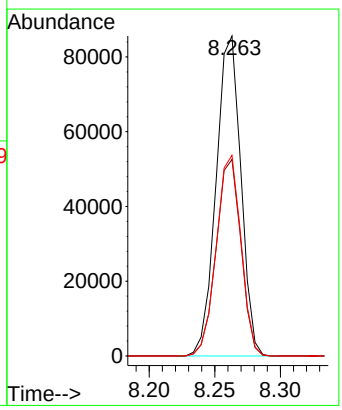


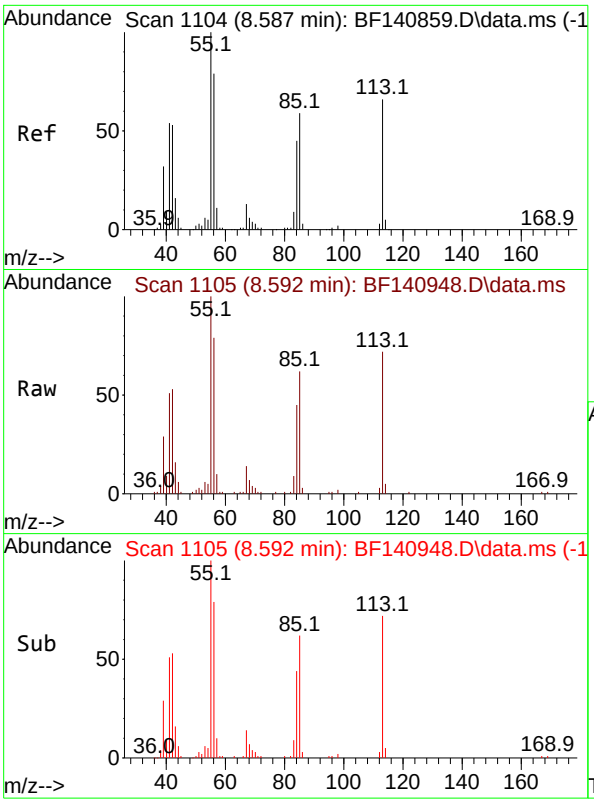


#34
Hexachlorobutadiene
Concen: 45.808 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:225 Resp: 112396

Ion	Ratio	Lower	Upper
225	100		
223	61.4	49.6	74.4
227	62.7	50.7	76.1



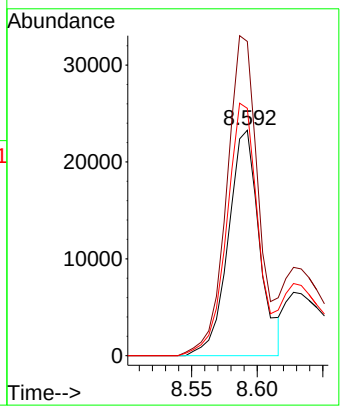


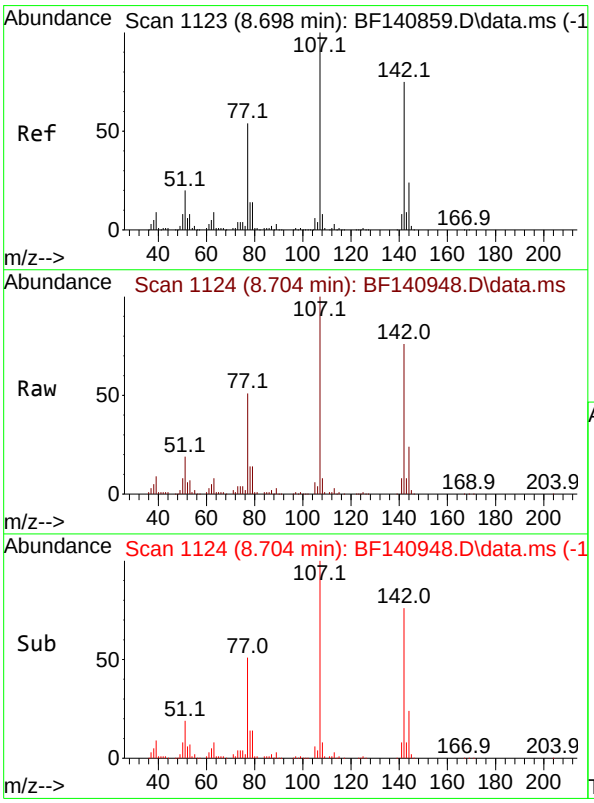
#35
Caprolactam
Concen: 40.675 ng
RT: 8.592 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:113 Resp: 38523

Ion	Ratio	Lower	Upper
113	100		
55	139.4	132.3	172.3
56	109.8	100.3	140.3

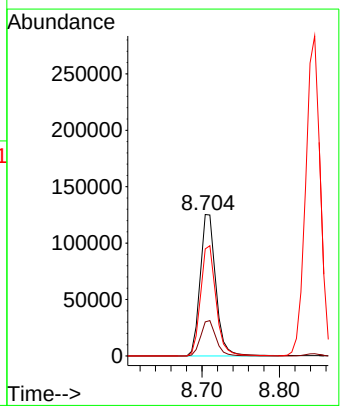


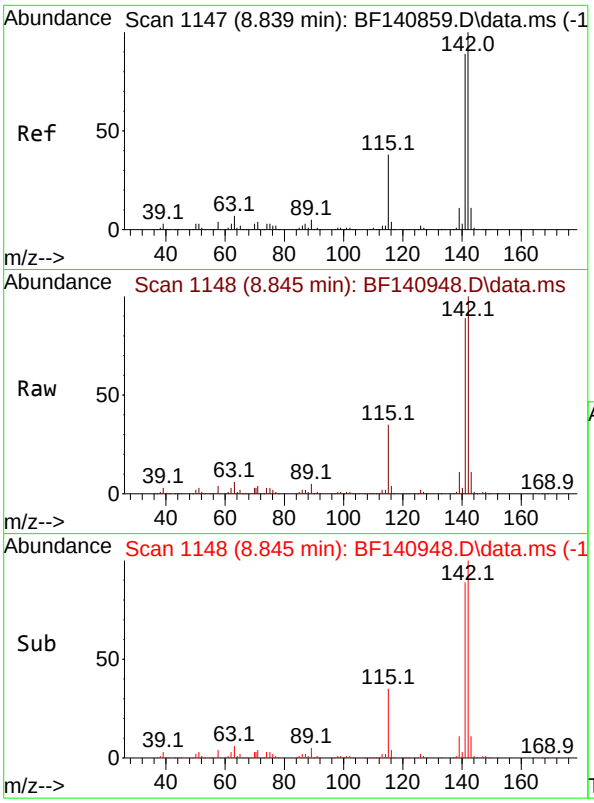


#36
4-Chloro-3-methylphenol
Concen: 49.233 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:107 Resp: 176282

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.2
142	75.8	60.3	90.5



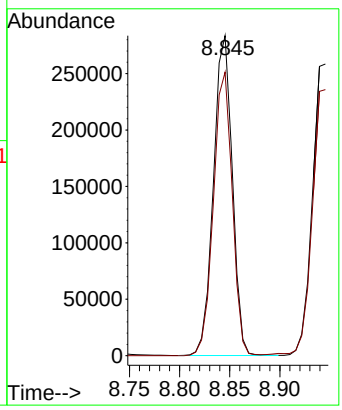


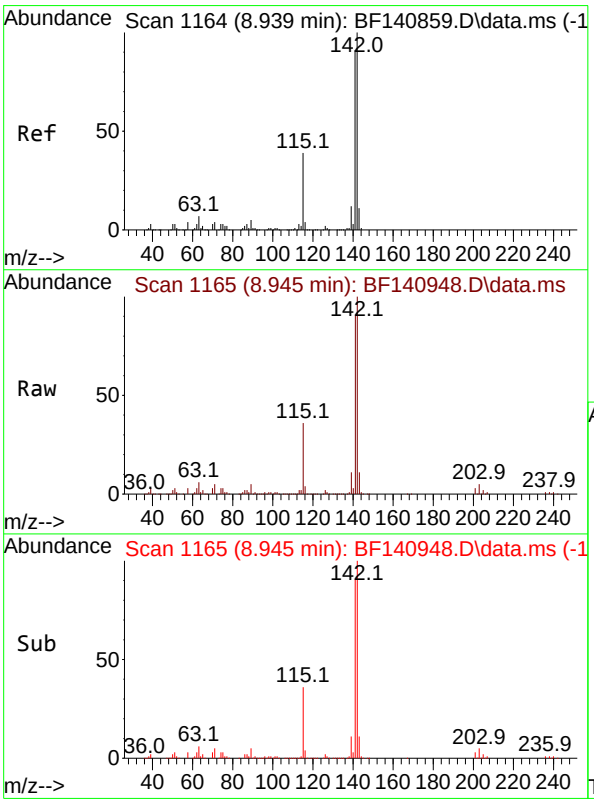
#37
2-Methylnaphthalene
Concen: 48.635 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:142 Resp: 369738

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.0	106.6

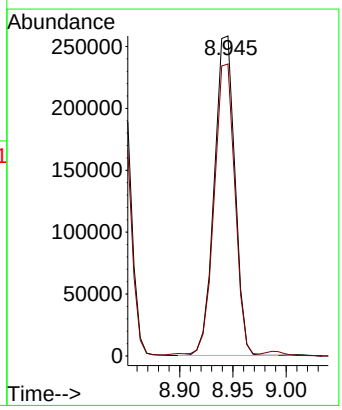


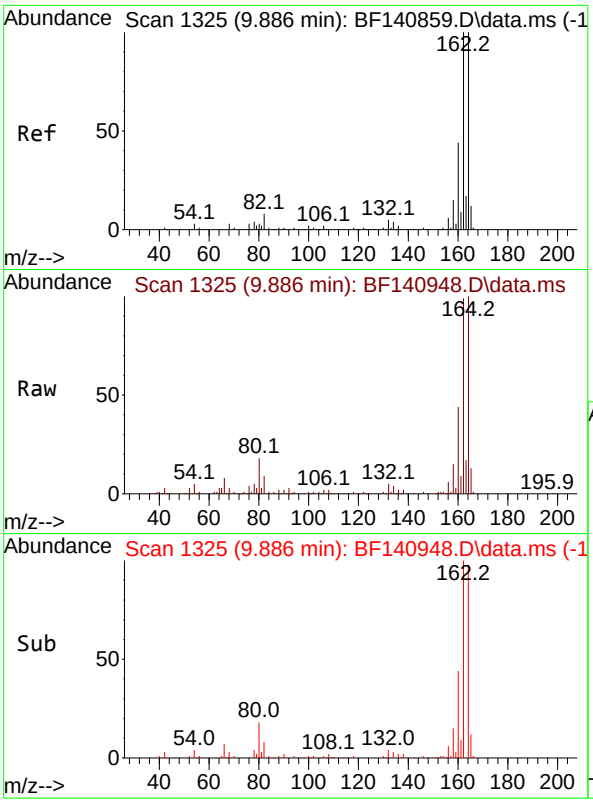


#38
1-Methylnaphthalene
Concen: 46.215 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:142 Resp: 347475

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.4	110.0



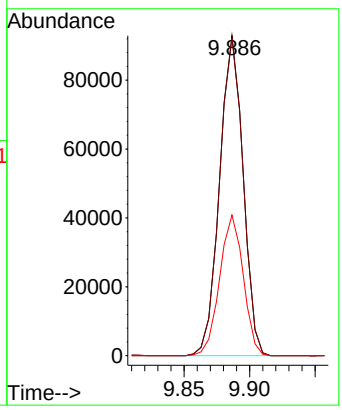


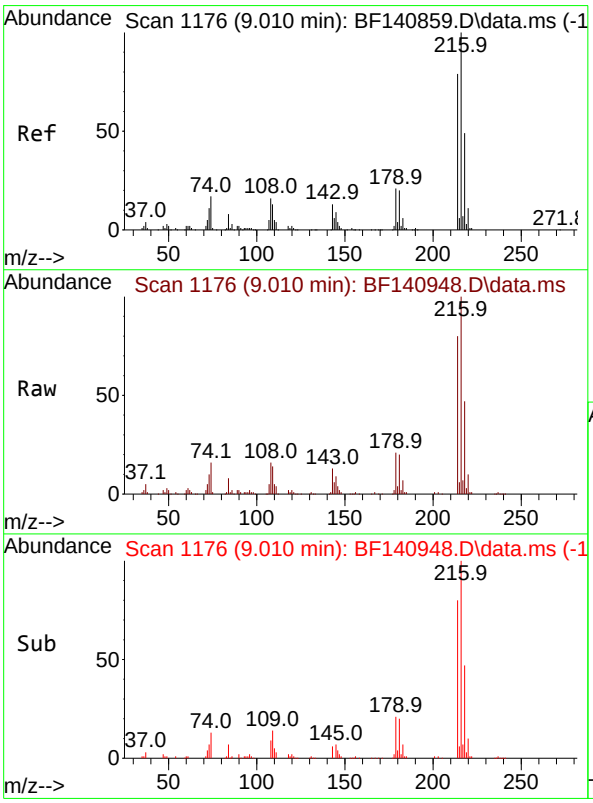
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:164 Resp: 115521

Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.9	119.9
160	43.9	35.2	52.8

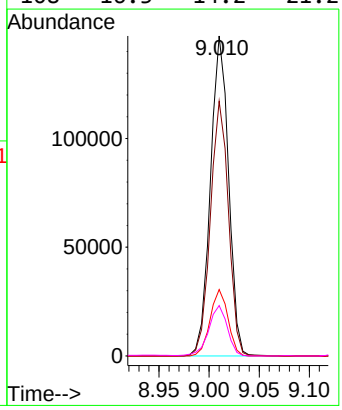


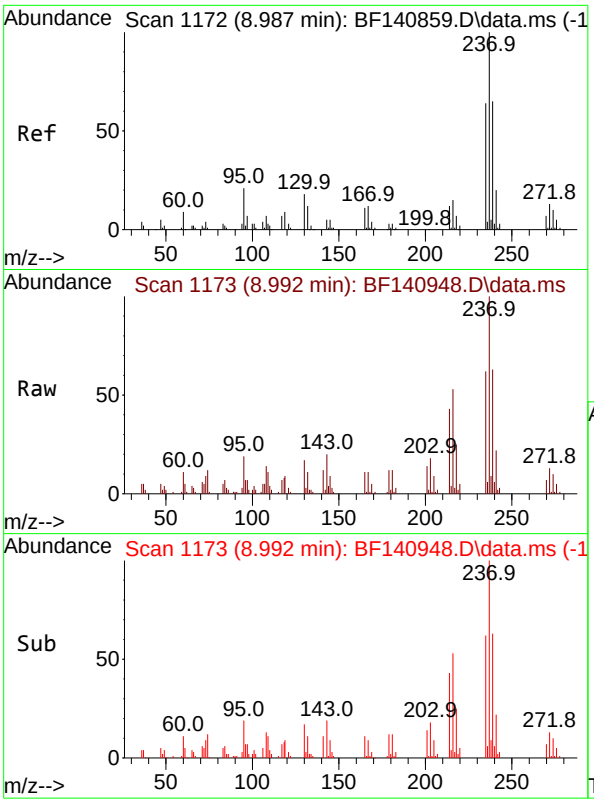


#40
1,2,4,5-Tetrachlorobenzene
Concen: 52.053 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:216 Resp: 184825

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.6	95.4
179	20.4	17.0	25.4
108	16.3	14.2	21.2



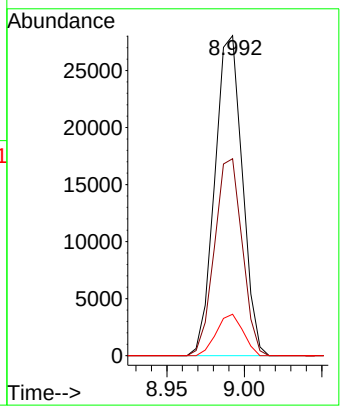


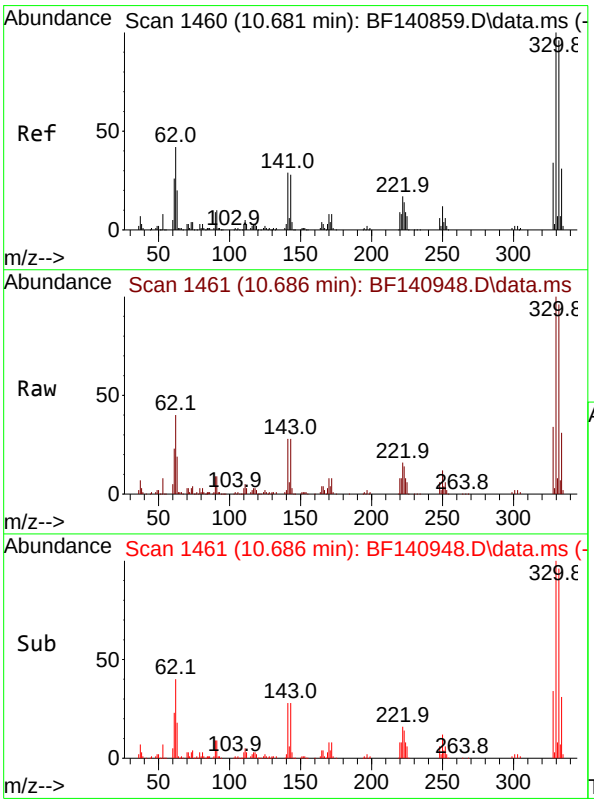
#41
Hexachlorocyclopentadiene
Concen: 40.992 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:237 Resp: 34644

Ion	Ratio	Lower	Upper
237	100		
235	61.5	43.7	83.7
272	12.9	0.0	32.9

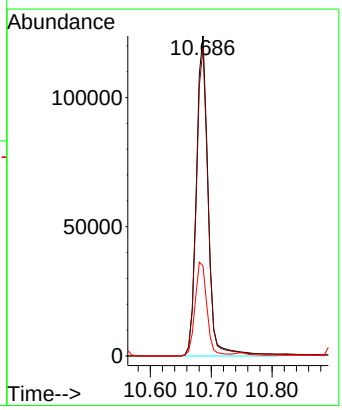


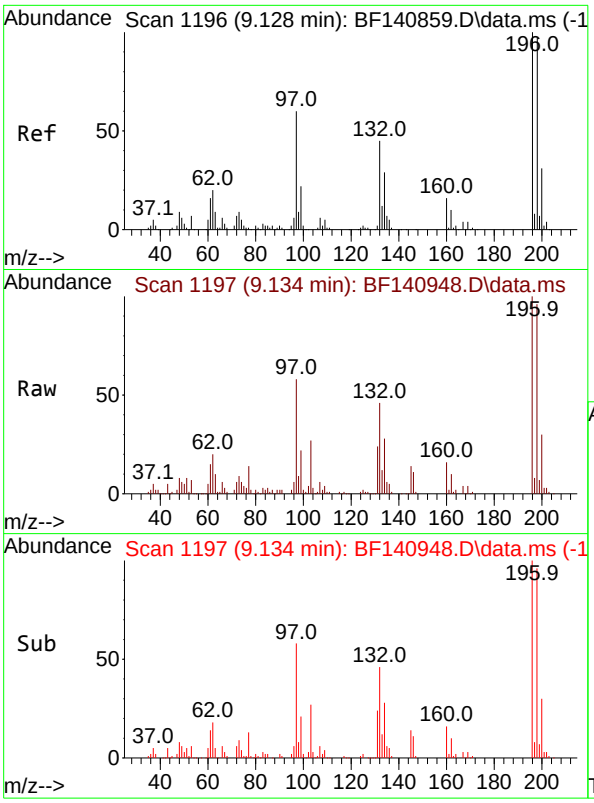


#42
2,4,6-Tribromophenol
Concen: 122.376 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:330 Resp: 167201

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.2	114.4
141	29.4	24.9	37.3



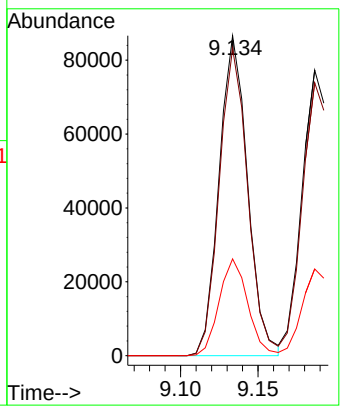


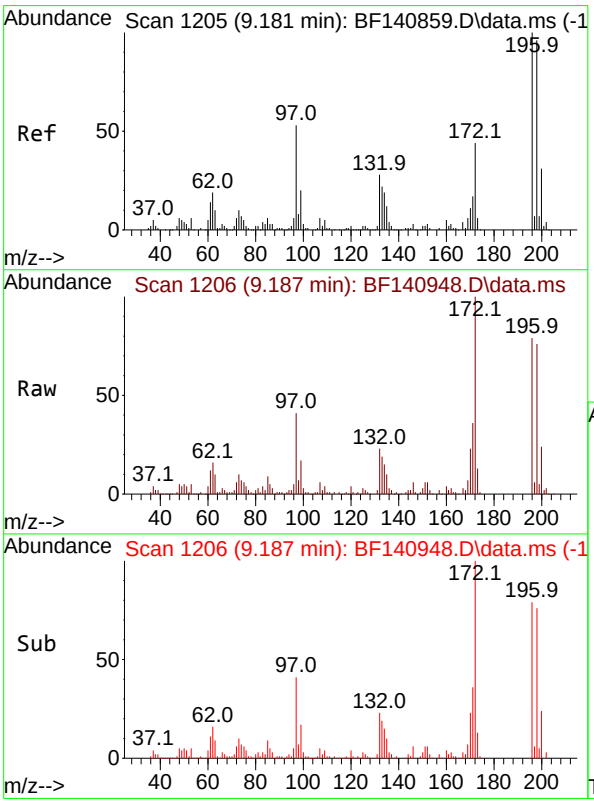
#43
2,4,6-Trichlorophenol
Concen: 50.964 ng
RT: 9.134 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:196 Resp: 110805

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.4	116.0
200	30.2	24.5	36.7

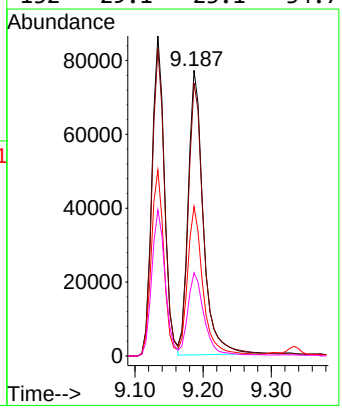


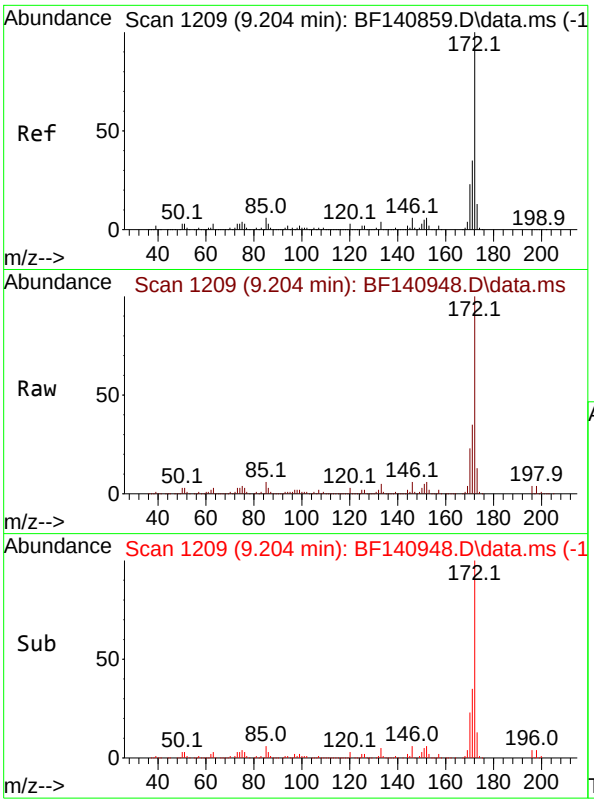


#44
2,4,5-Trichlorophenol
Concen: 49.337 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:196 Resp: 117901

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.2	115.8
97	52.3	42.2	63.4
132	29.1	23.1	34.7



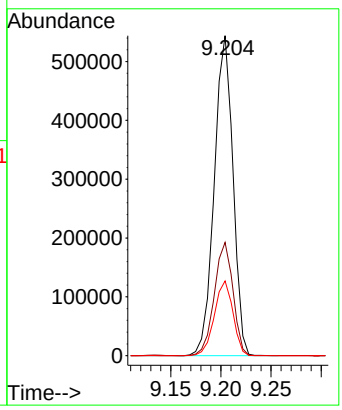


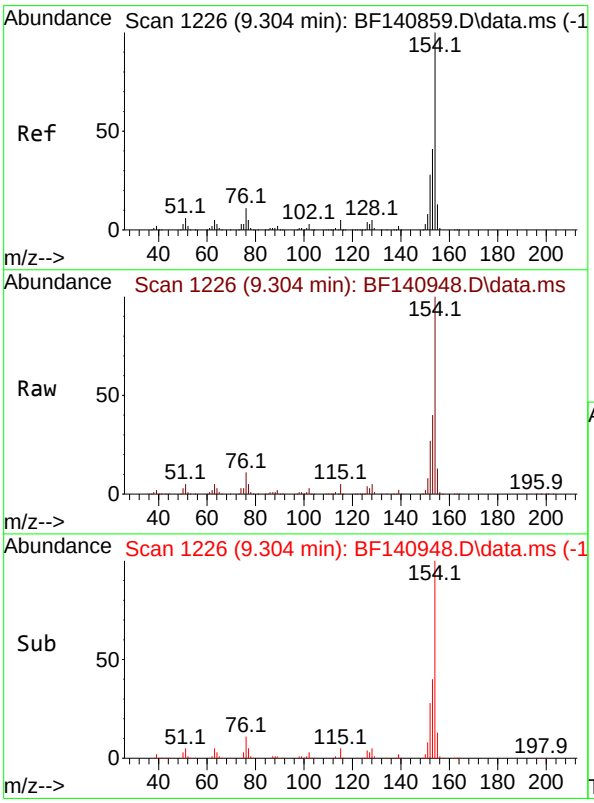
#45
2-Fluorobiphenyl
Concen: 83.953 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:172 Resp: 705412

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.4	42.6
170	23.3	18.6	28.0

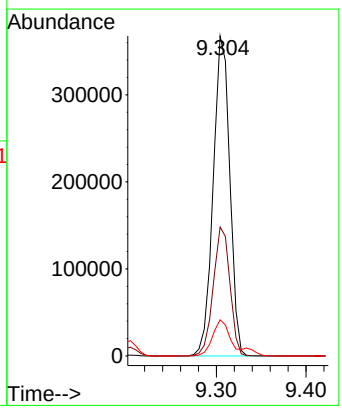


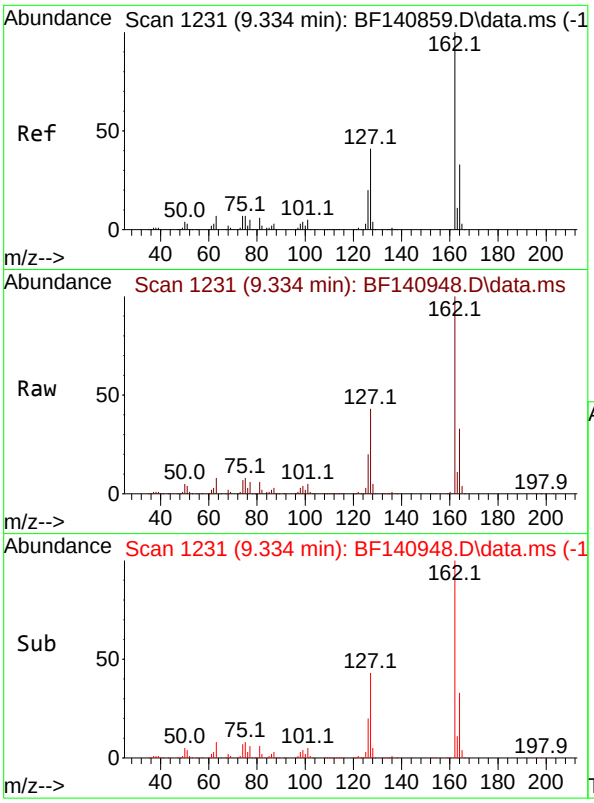


#46
1,1'-Biphenyl
Concen: 51.455 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:154 Resp: 472666

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.8	60.8
76	11.3	0.0	31.0



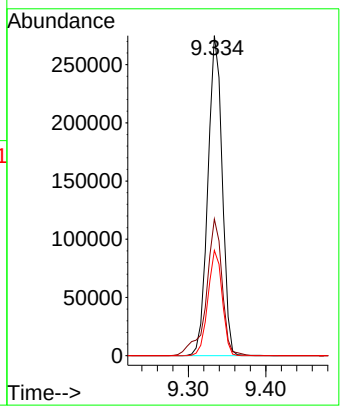


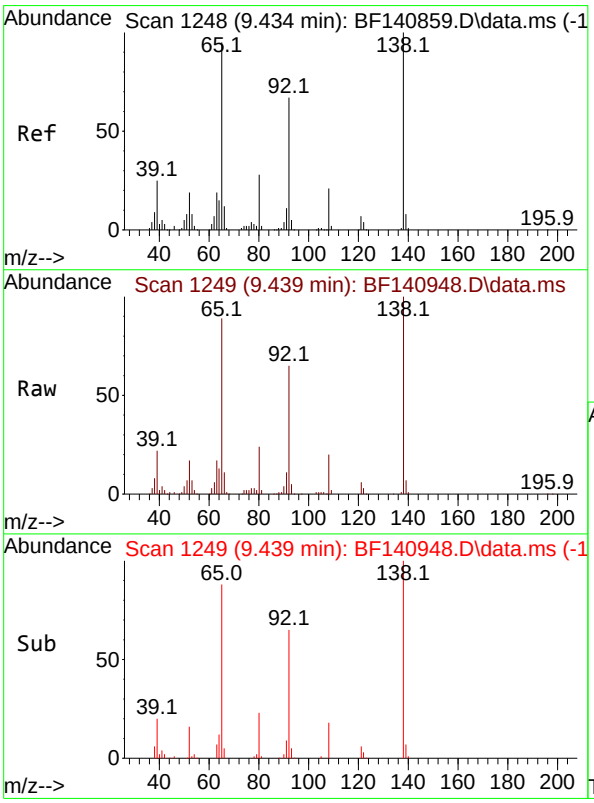
#47
2-Chloronaphthalene
Concen: 50.113 ng
RT: 9.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:162 Resp: 352165

Ion	Ratio	Lower	Upper
162	100		
127	42.7	33.5	50.3
164	32.9	26.2	39.2

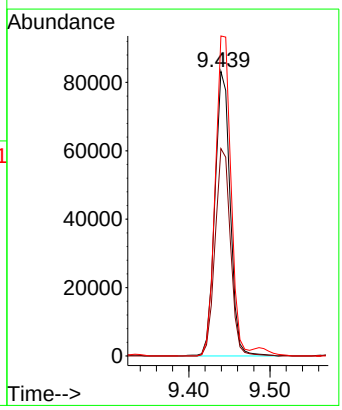


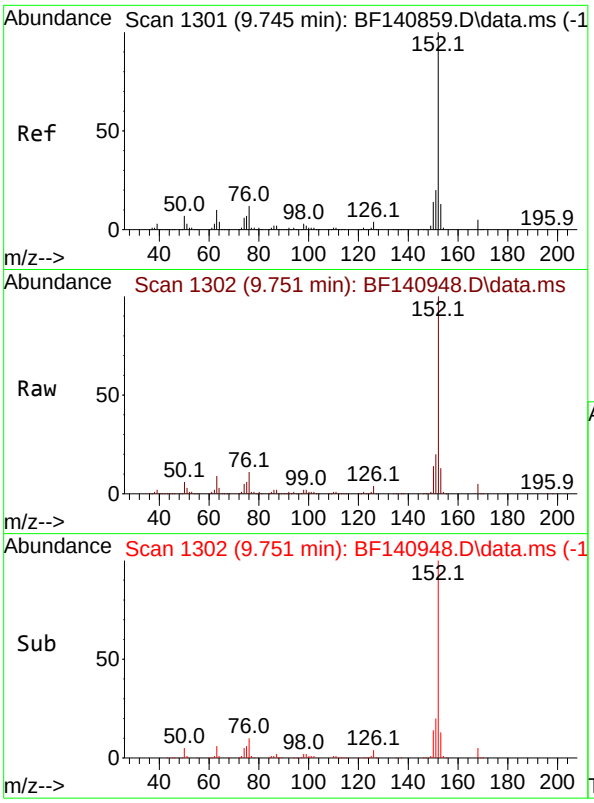


#48
2-Nitroaniline
Concen: 51.395 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion: 65 Resp: 109079

Ion	Ratio	Lower	Upper
65	100		
92	72.9	56.3	84.5
138	112.5	83.8	125.6



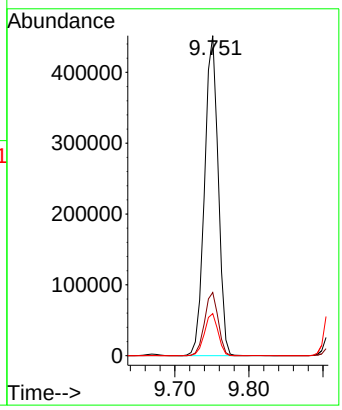


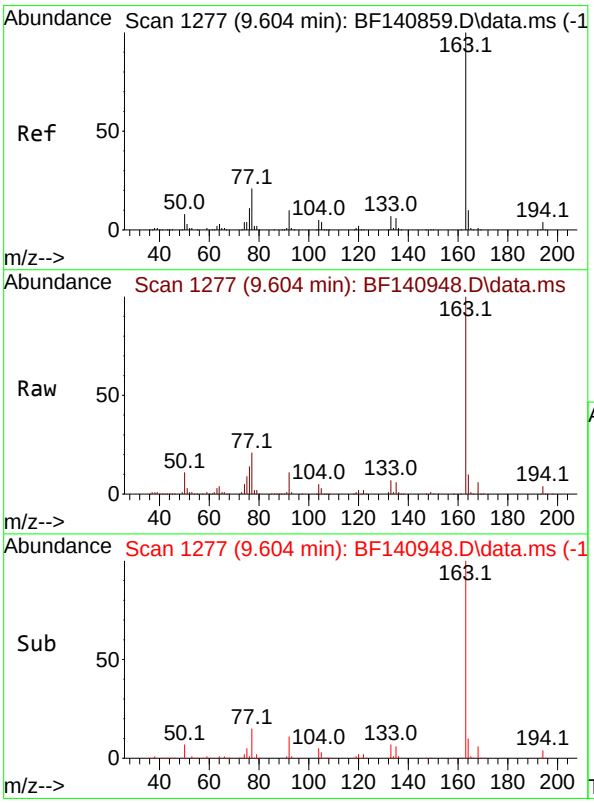
#49
Acenaphthylene
Concen: 55.834 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:152 Resp: 576620

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.0	24.0
153	13.1	10.6	16.0

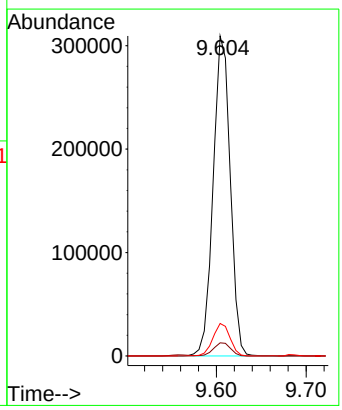


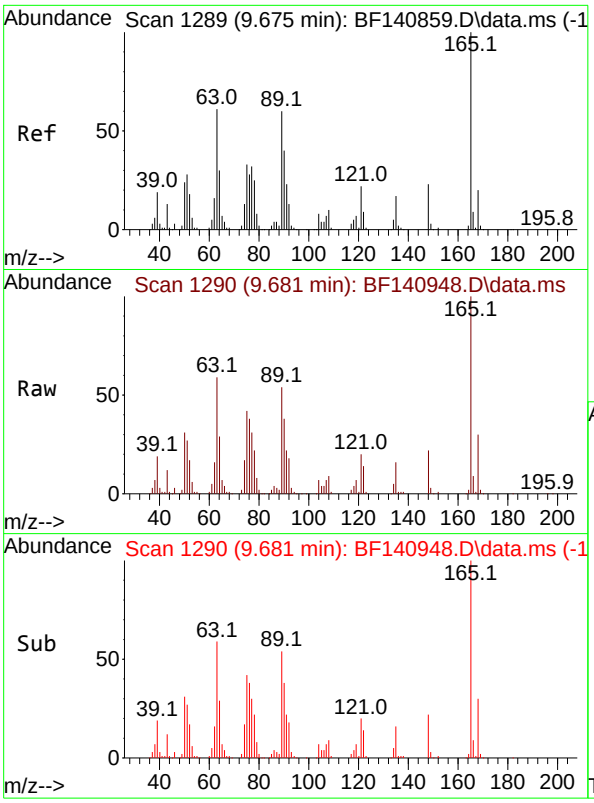


#50
Dimethylphthalate
Concen: 50.222 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:163 Resp: 409034

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.1	8.1	12.1



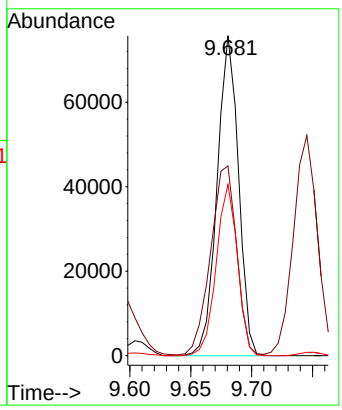


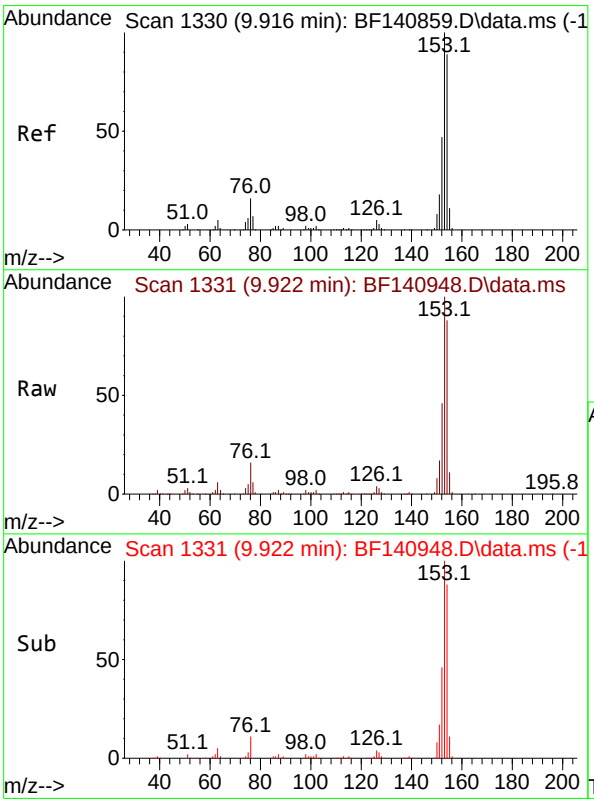
#51
2,6-Dinitrotoluene
Concen: 49.668 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:165 Resp: 92478

Ion	Ratio	Lower	Upper
165	100		
63	59.3	49.7	74.5
89	53.5	48.2	72.4

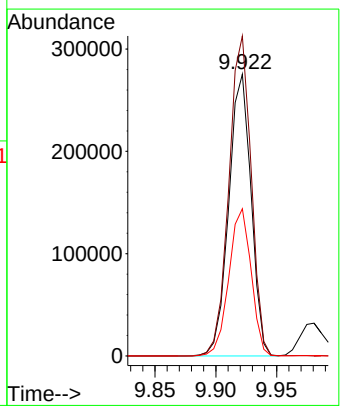


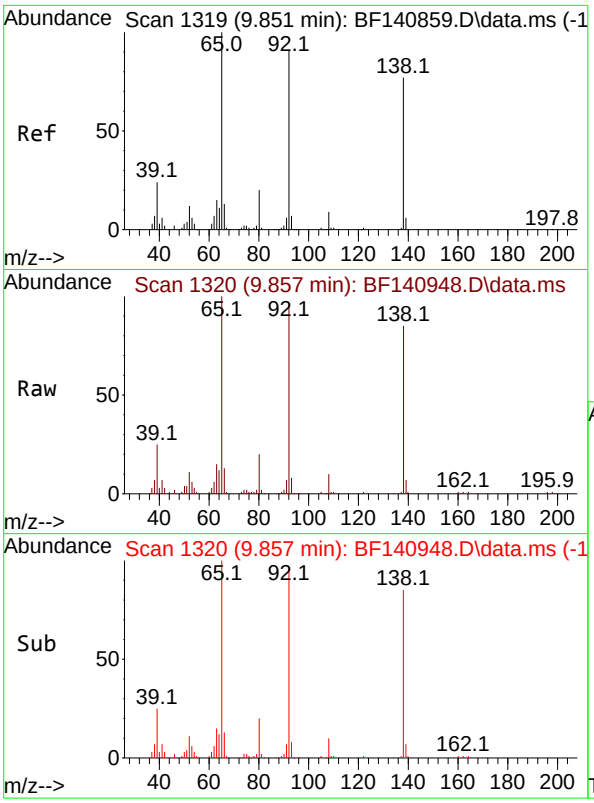


#52
Acenaphthene
Concen: 53.237 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:154 Resp: 351200

Ion	Ratio	Lower	Upper
154	100		
153	113.6	89.9	134.9
152	52.3	42.6	63.8



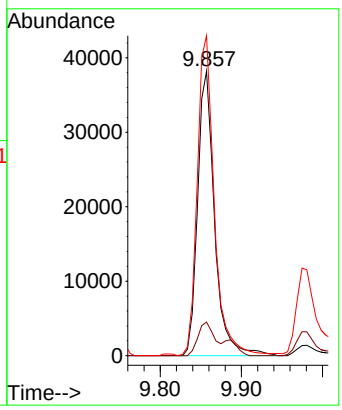


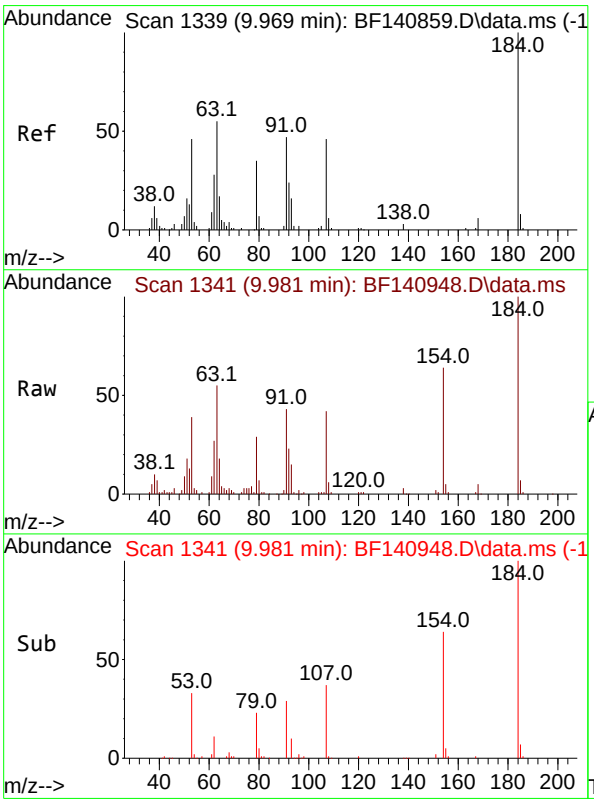
#53
3-Nitroaniline
Concen: 30.057 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:138 Resp: 55538

Ion	Ratio	Lower	Upper
138	100		
108	11.8	9.0	13.4
92	112.5	95.5	143.3

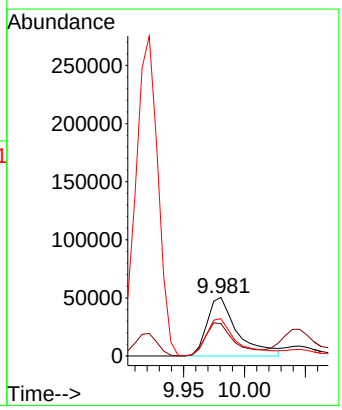


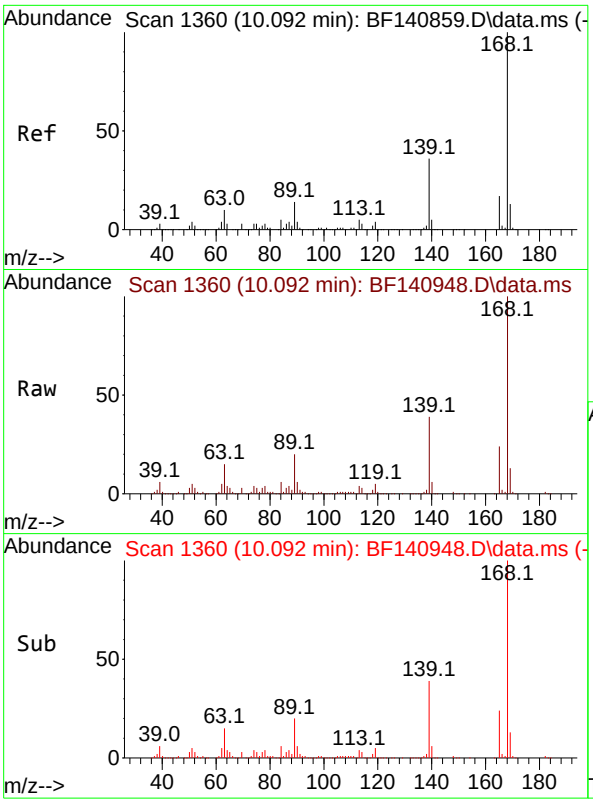


#54
2,4-Dinitrophenol
Concen: 95.155 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:184 Resp: 87671

Ion	Ratio	Lower	Upper
184	100		
63	55.3	51.6	77.4
154	63.7	56.1	84.1



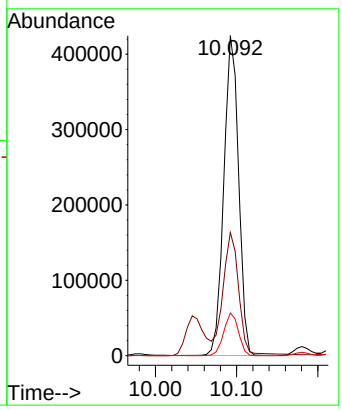


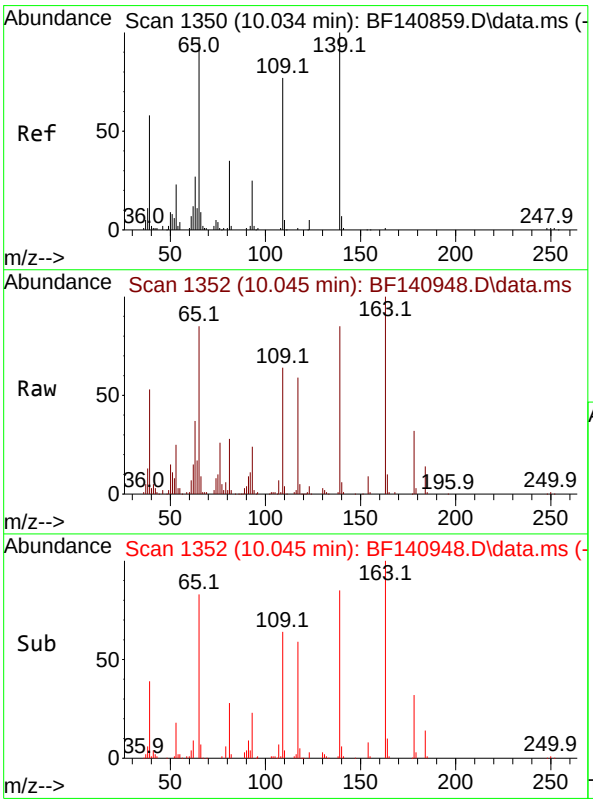
#55
Dibenzofuran
Concen: 52.577 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:168 Resp: 537457

Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.1	46.7
169	13.4	10.6	16.0

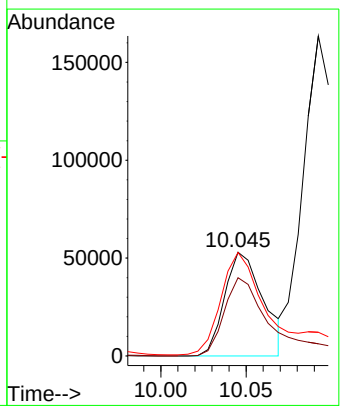


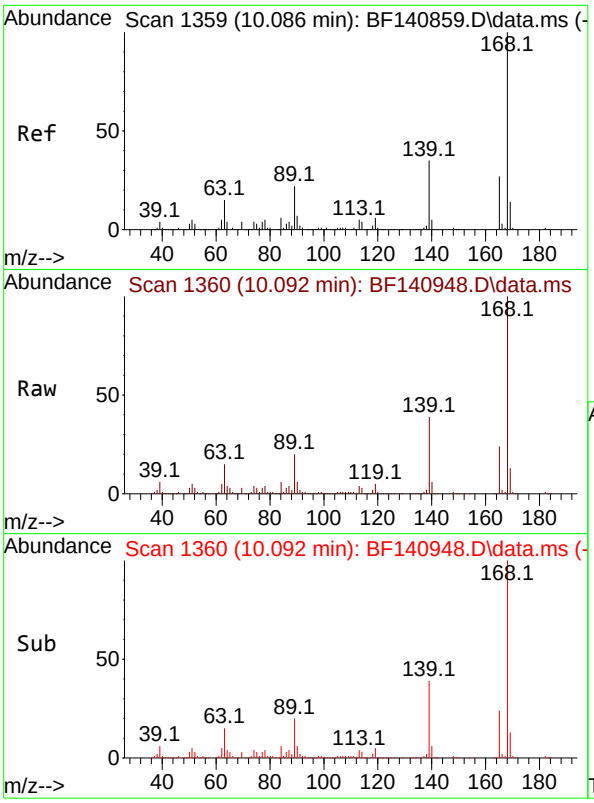


#56
4-Nitrophenol
Concen: 83.625 ng
RT: 10.045 min Scan# 1352
Delta R.T. 0.011 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:139 Resp: 83327

Ion	Ratio	Lower	Upper
139	100		
109	75.4	56.7	96.7
65	99.8	78.1	118.1



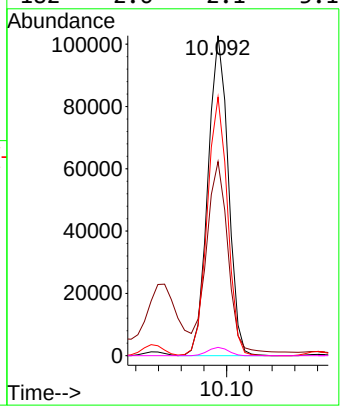


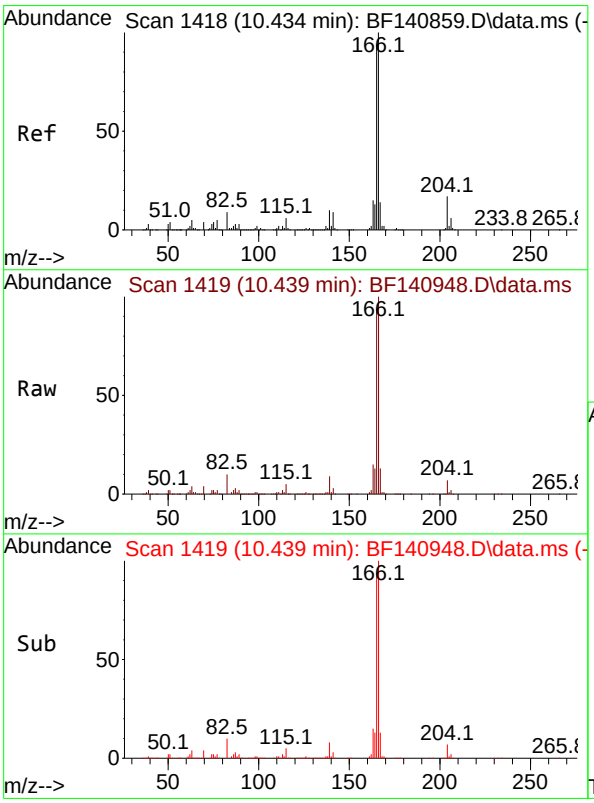
#57
2,4-Dinitrotoluene
Concen: 52.166 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:165 Resp: 127795

Ion	Ratio	Lower	Upper
165	100		
63	60.7	49.3	73.9
89	80.8	66.2	99.4
182	2.6	2.1	3.1

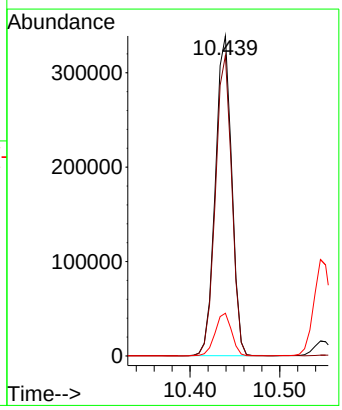


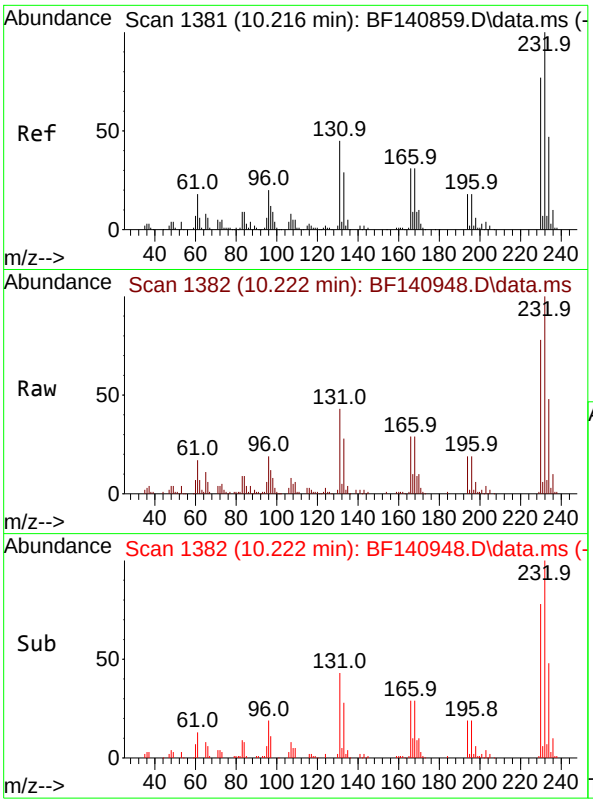


#58
Fluorene
Concen: 50.841 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:166 Resp: 428757

Ion	Ratio	Lower	Upper
166	100		
165	93.9	75.1	112.7
167	13.3	11.1	16.7



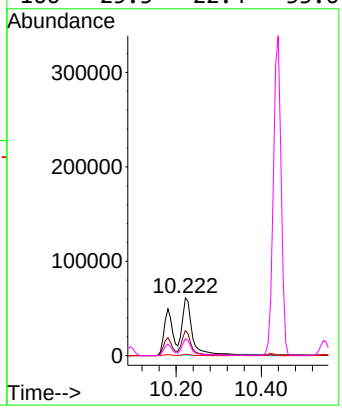


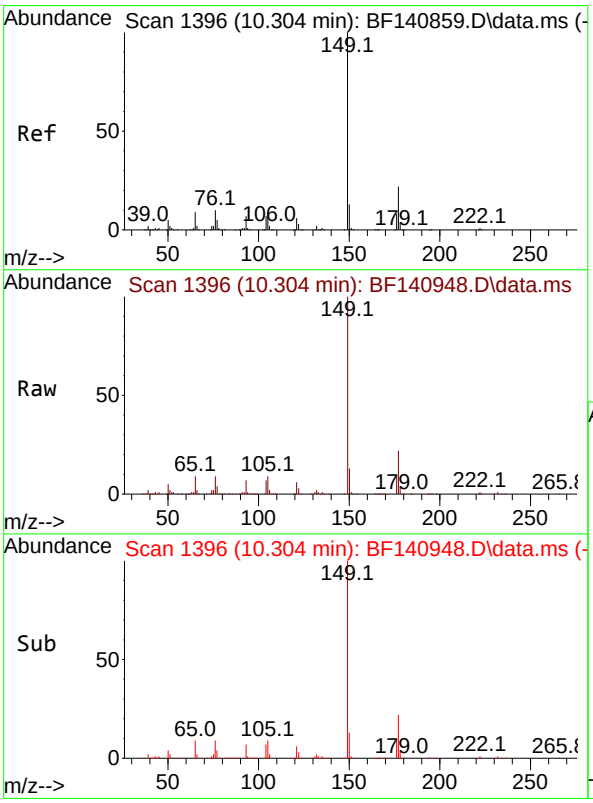
#59
2,3,4,6-Tetrachlorophenol
Concen: 52.272 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:232 Resp: 101786

Ion	Ratio	Lower	Upper
232	100		
131	37.4	35.1	52.7
130	2.3	1.8	2.8
166	25.3	22.4	33.6

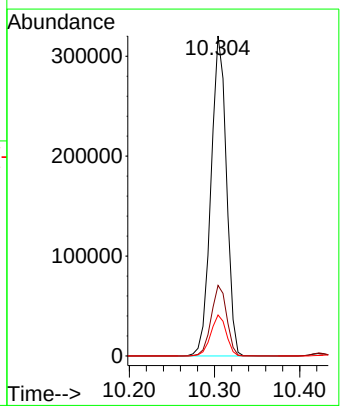


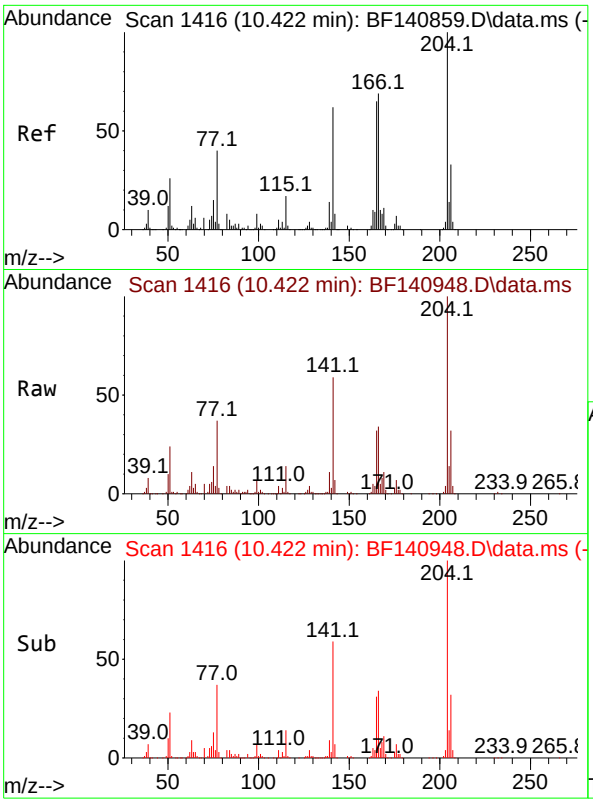


#60
Diethylphthalate
Concen: 47.990 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 405299

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.2	25.8
150	12.8	10.1	15.1



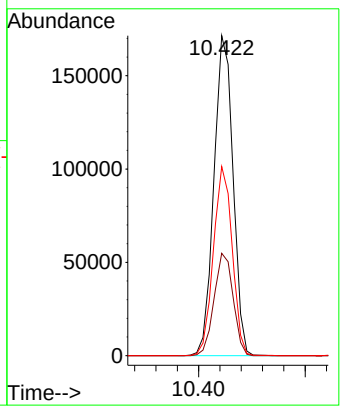


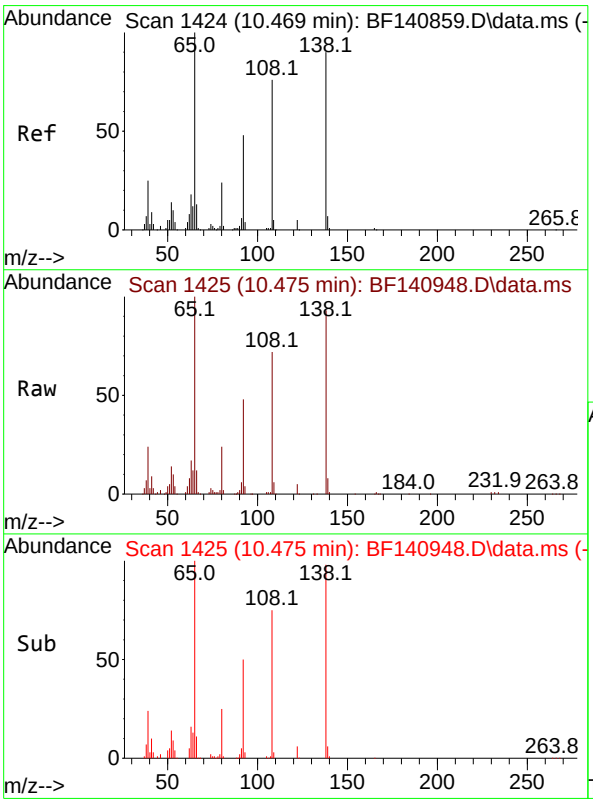
#61
4-Chlorophenyl-phenylether
Concen: 50.243 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:204 Resp: 212840

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.5	39.7
141	59.1	50.0	75.0

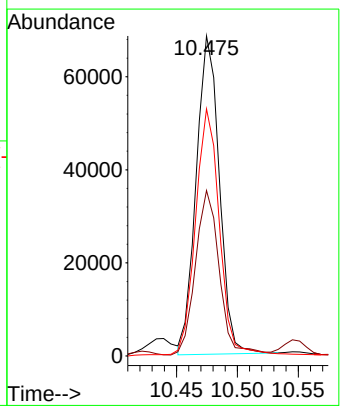


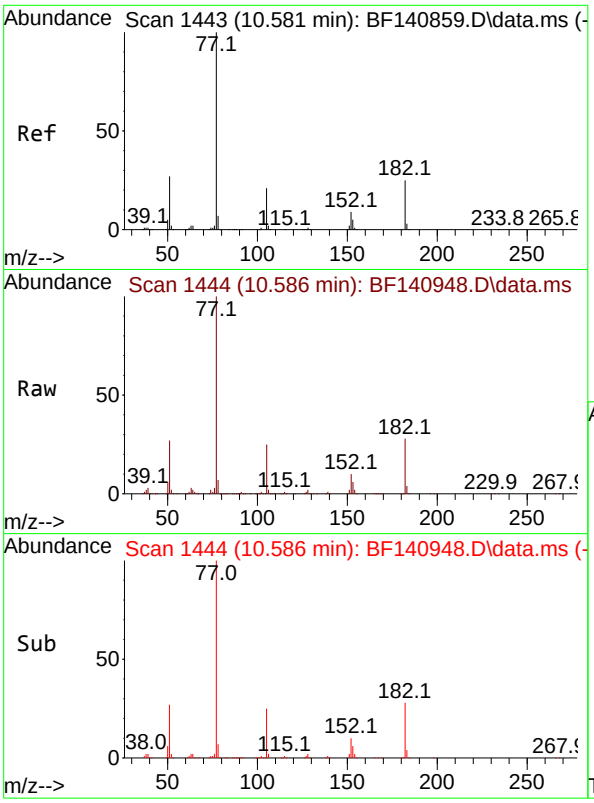


#62
4-Nitroaniline
Concen: 46.729 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:138 Resp: 90228

Ion	Ratio	Lower	Upper
138	100		
92	51.7	32.6	72.6
108	77.2	64.1	104.1



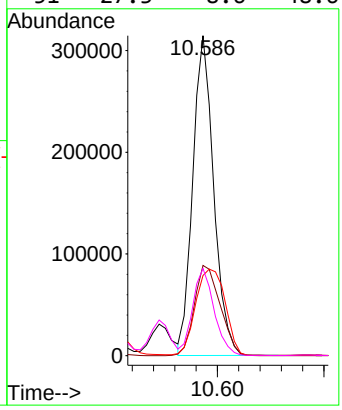


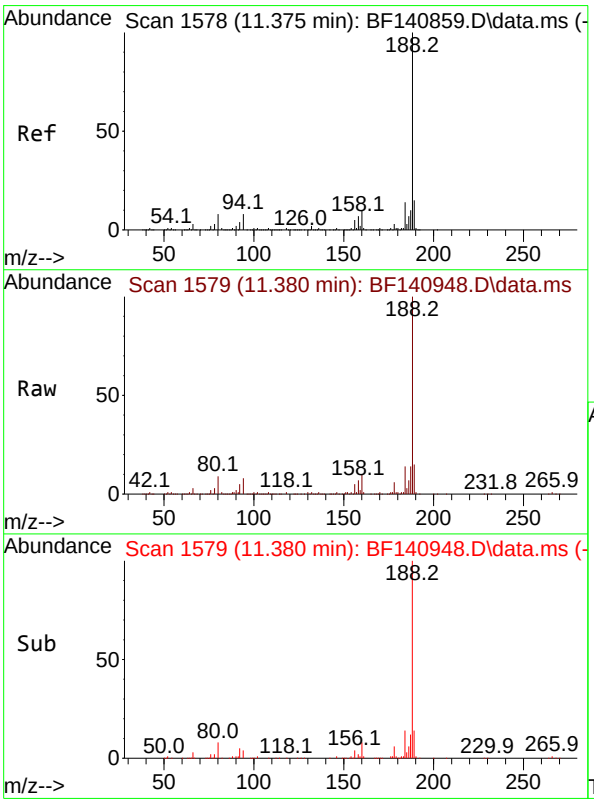
#63
Azobenzene
Concen: 54.056 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion: 77 Resp: 429196

Ion	Ratio	Lower	Upper
77	100		
182	28.2	4.5	44.5
105	25.0	0.9	40.9
51	27.3	8.6	48.6

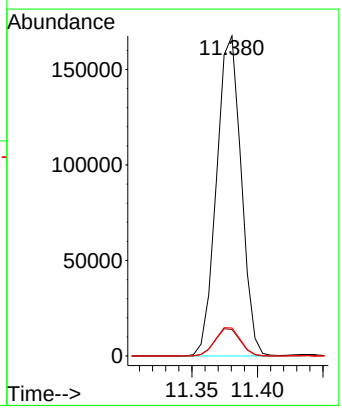


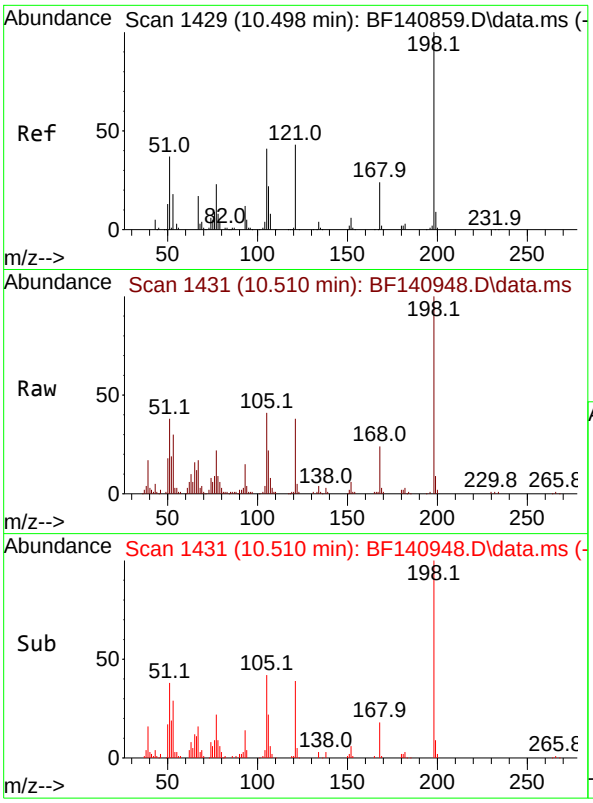


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:188 Resp: 219277

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.4	9.6
80	8.7	6.8	10.2



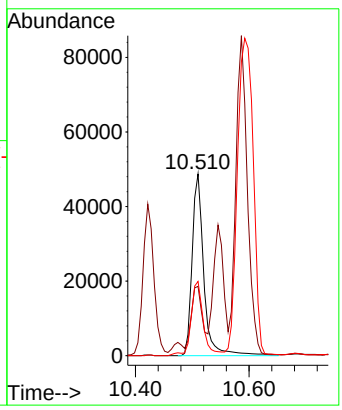


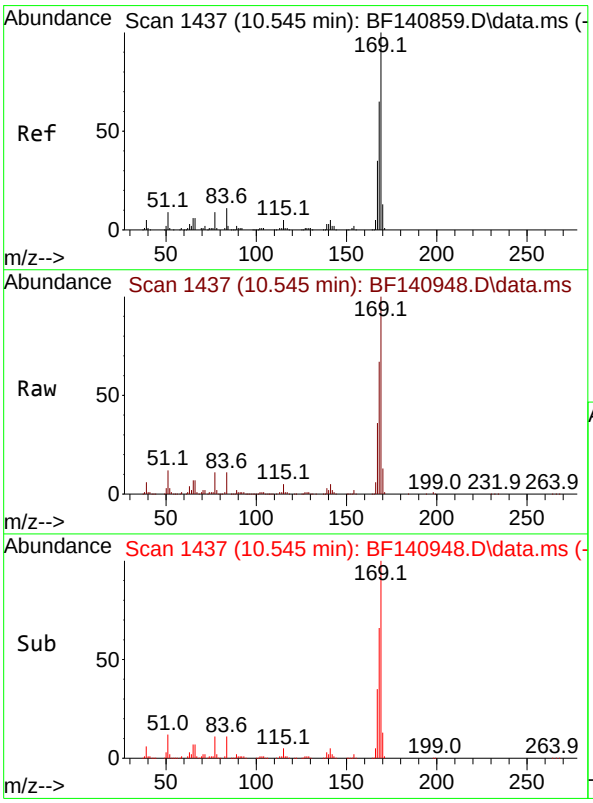
#65
4,6-Dinitro-2-methylphenol
Concen: 56.637 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:198 Resp: 70374

Ion	Ratio	Lower	Upper
198	100		
51	38.1	24.4	64.4
105	40.9	22.1	62.1

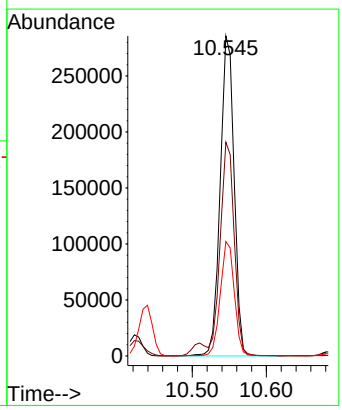


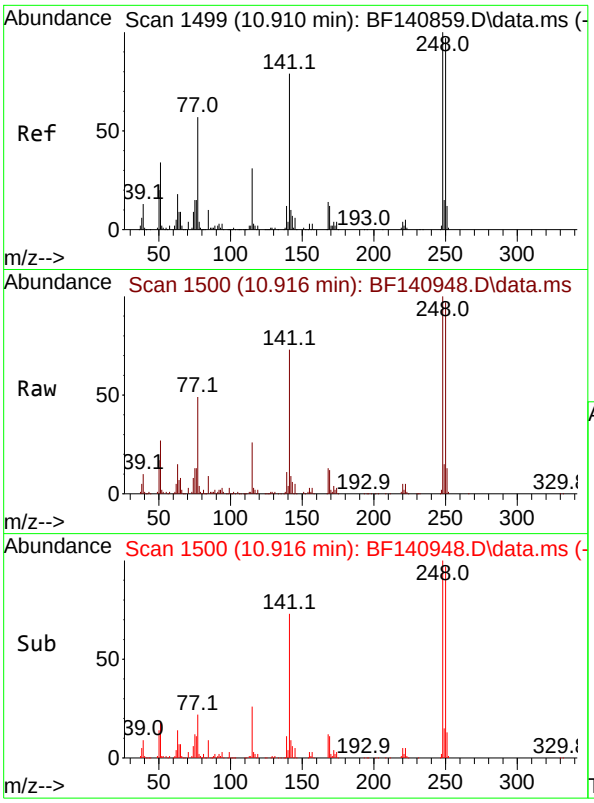


#66
n-Nitrosodiphenylamine
Concen: 55.234 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:169 Resp: 372378

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.4	80.0
167	35.7	28.3	42.5



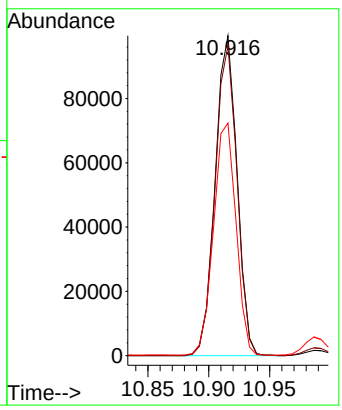


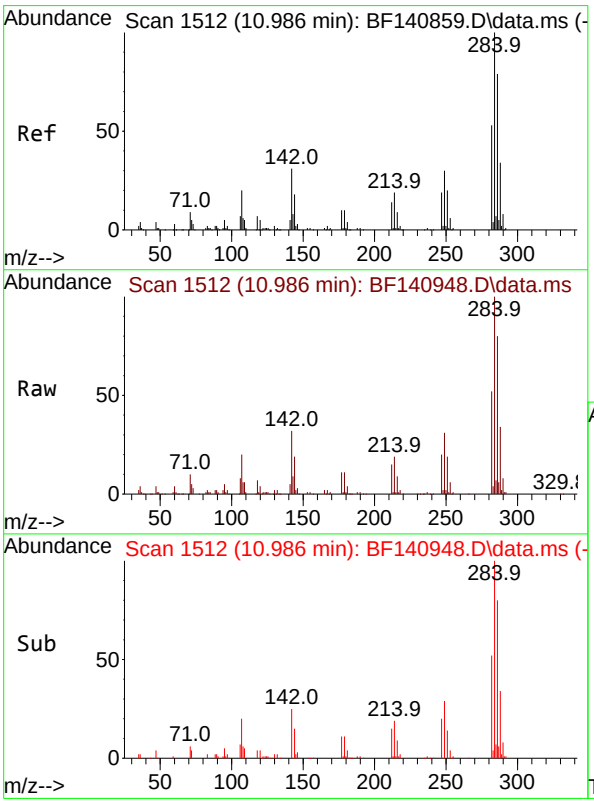
#67
4-Bromophenyl-phenylether
Concen: 50.908 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:248 Resp: 124883

Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.4	116.2
141	72.6	62.9	94.3

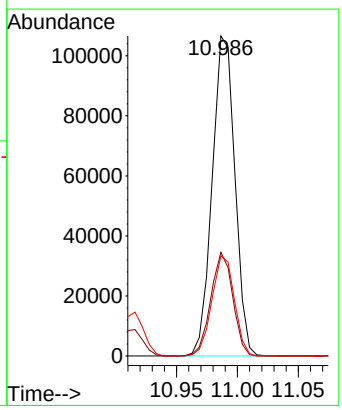


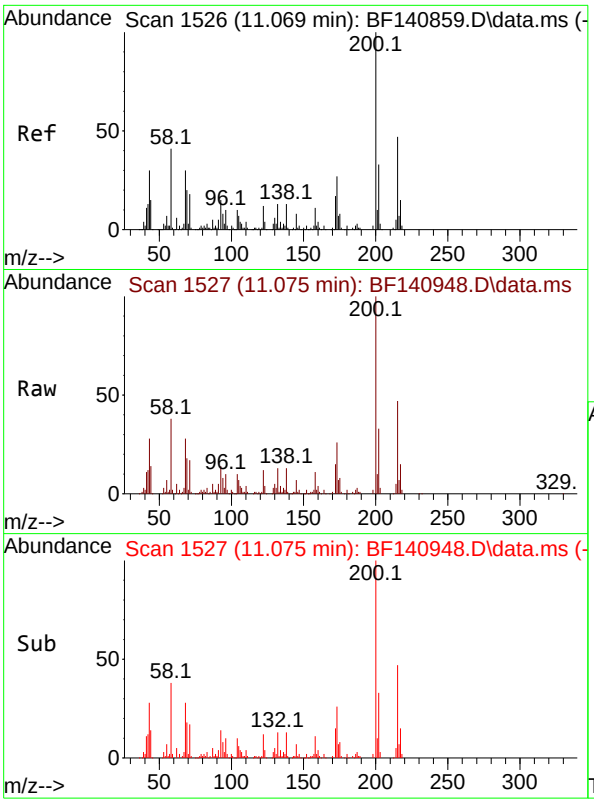


#68
Hexachlorobenzene
Concen: 49.700 ng
RT: 10.986 min Scan# 1512
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:284 Resp: 138231

Ion	Ratio	Lower	Upper
284	100		
142	32.4	24.6	36.8
249	31.3	24.3	36.5



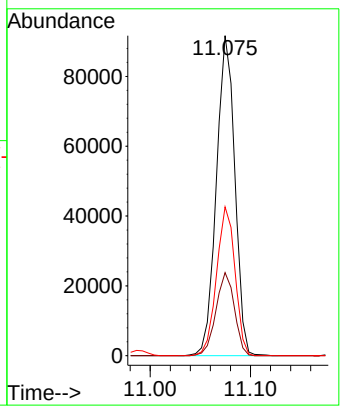


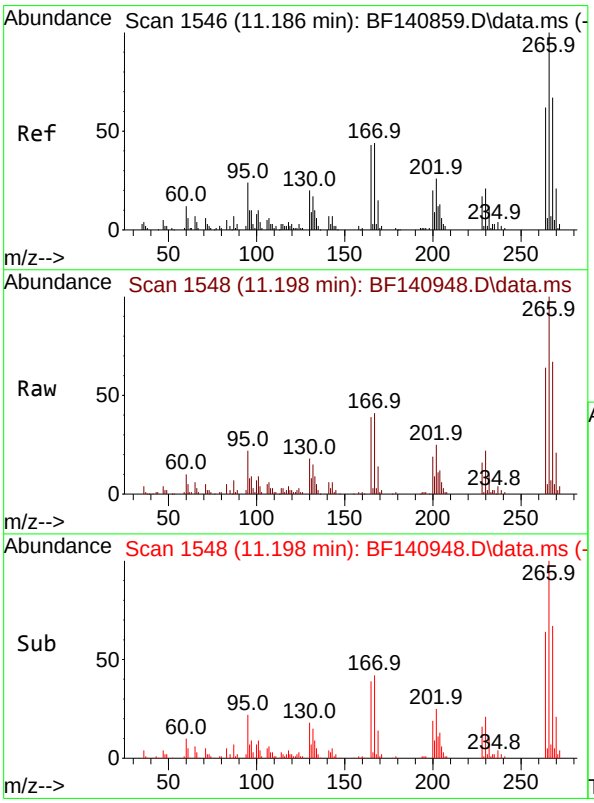
#69
Atrazine
Concen: 62.062 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:200 Resp: 116856

Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.6	46.6
215	46.5	26.7	66.7

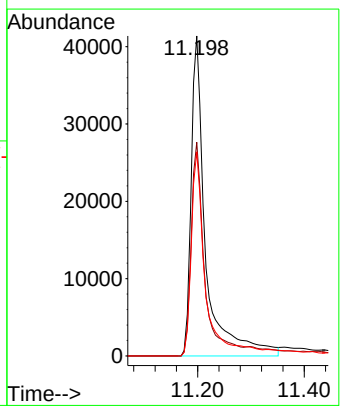


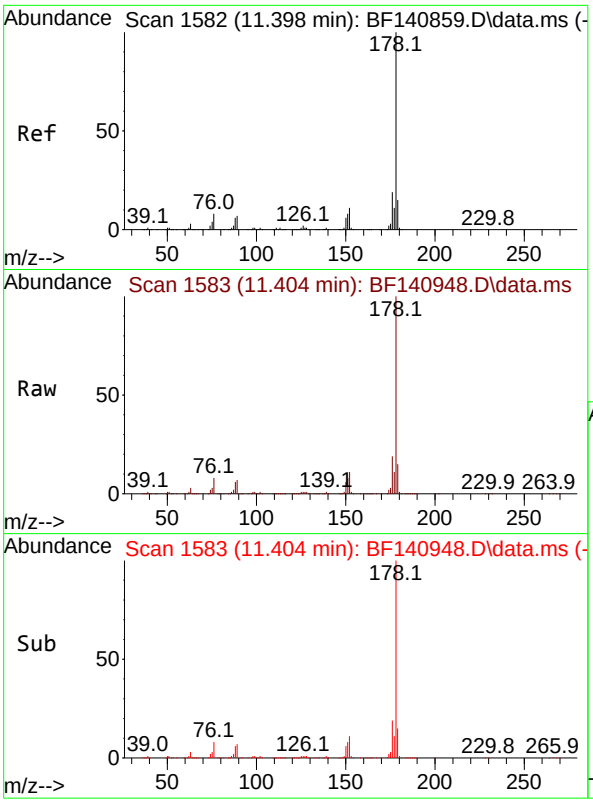


#70
Pentachlorophenol
Concen: 77.662 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:266 Resp: 78972

Ion	Ratio	Lower	Upper
266	100		
268	66.8	54.0	81.0
264	63.8	49.4	74.2



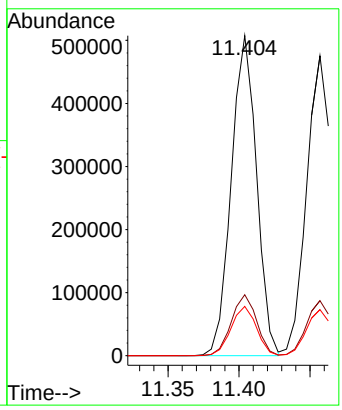


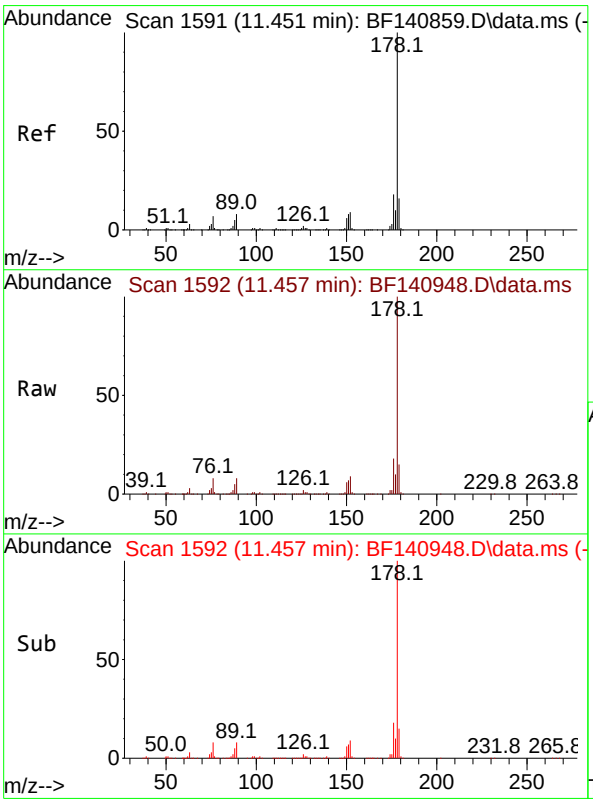
#71
Phenanthrene
Concen: 55.721 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:178 Resp: 628319

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.4	12.1	18.1

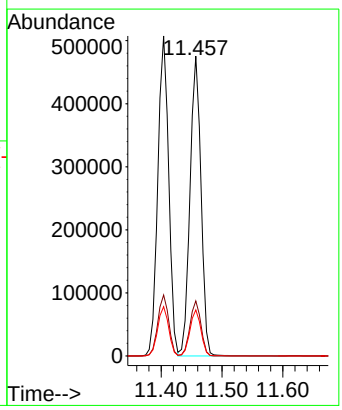


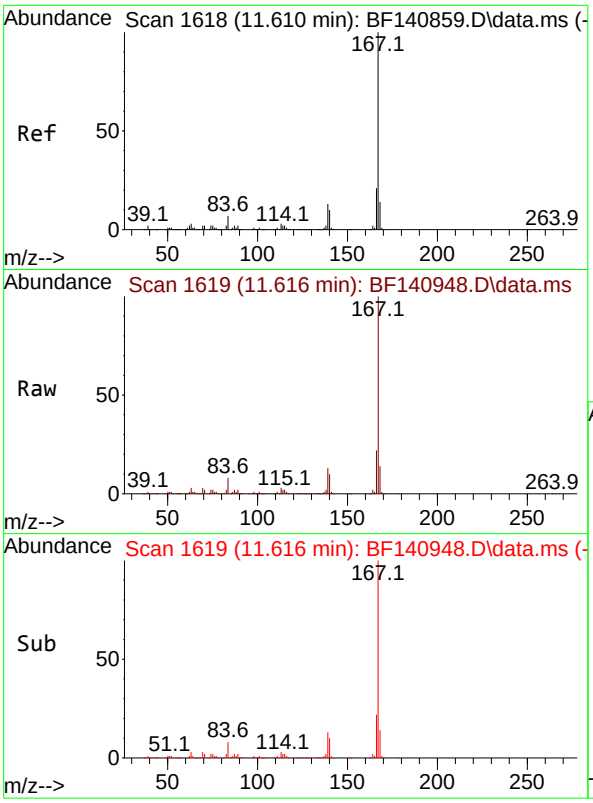


#72
Anthracene
Concen: 53.762 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:178 Resp: 597017

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.6	22.0
179	15.4	12.6	18.8



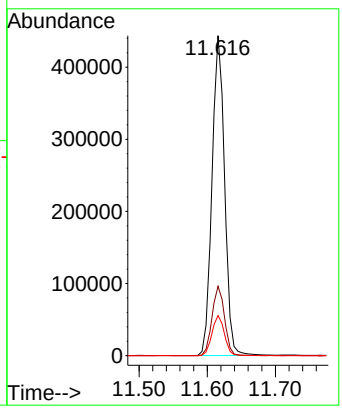


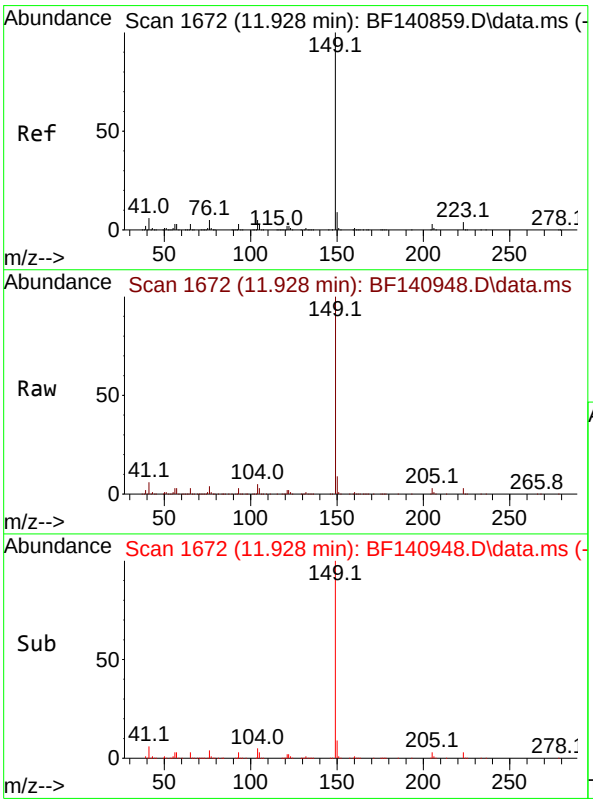
#73
Carbazole
Concen: 52.355 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:167 Resp: 569460

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	12.5	10.2	15.2

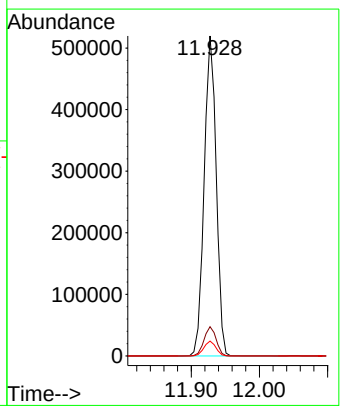


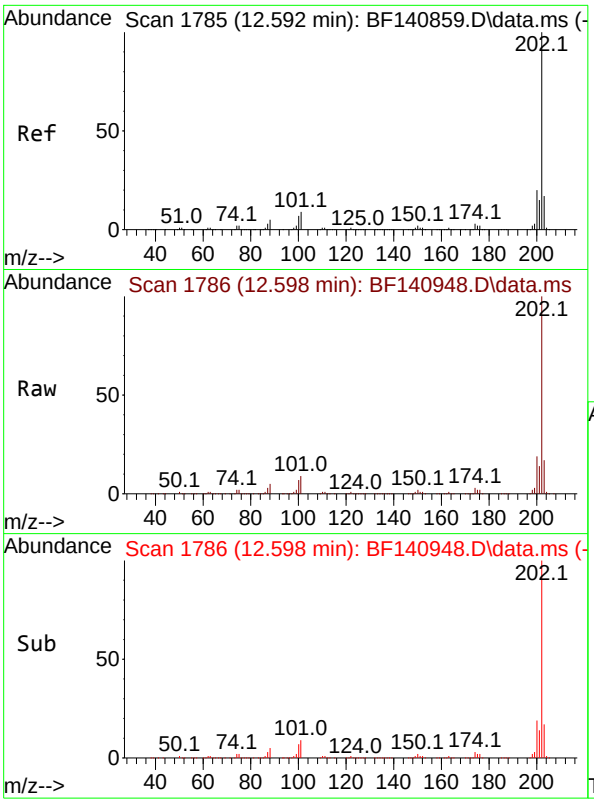


#74
Di-n-butylphthalate
Concen: 49.999 ng
RT: 11.928 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 638255

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.6	3.8	5.8



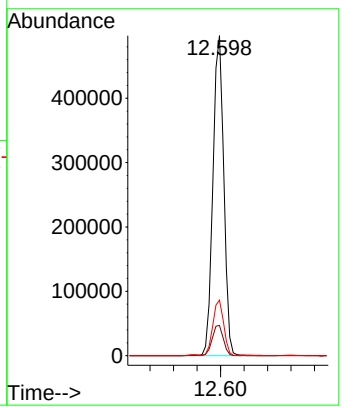


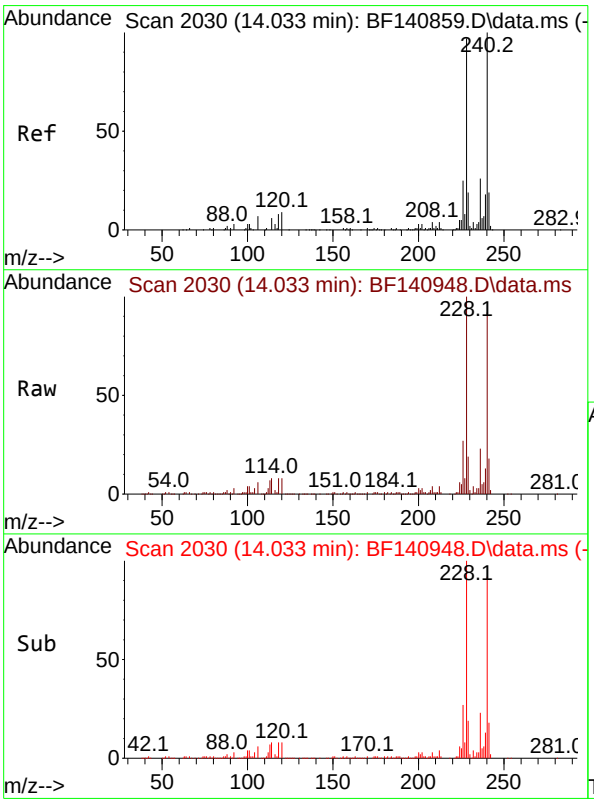
#75
Fluoranthene
Concen: 49.060 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:202 Resp: 637105

Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	29.3
203	17.4	0.0	37.4

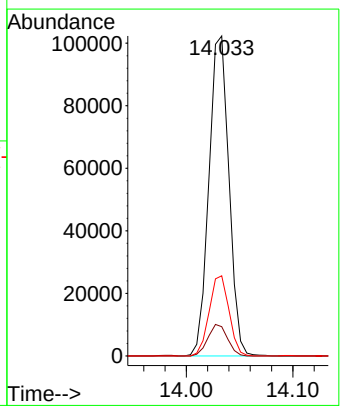


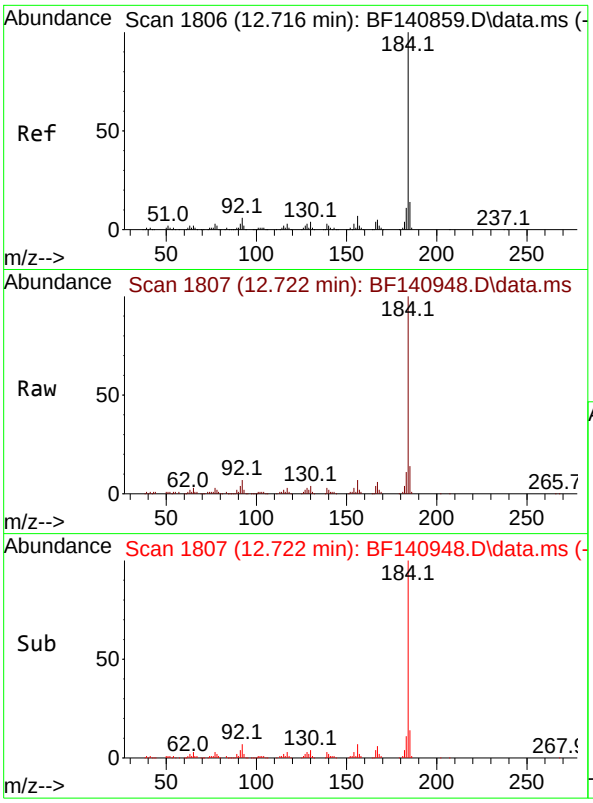


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:240 Resp: 133308

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.6	11.4
236	25.1	20.5	30.7



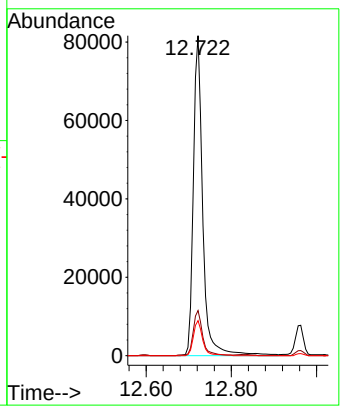


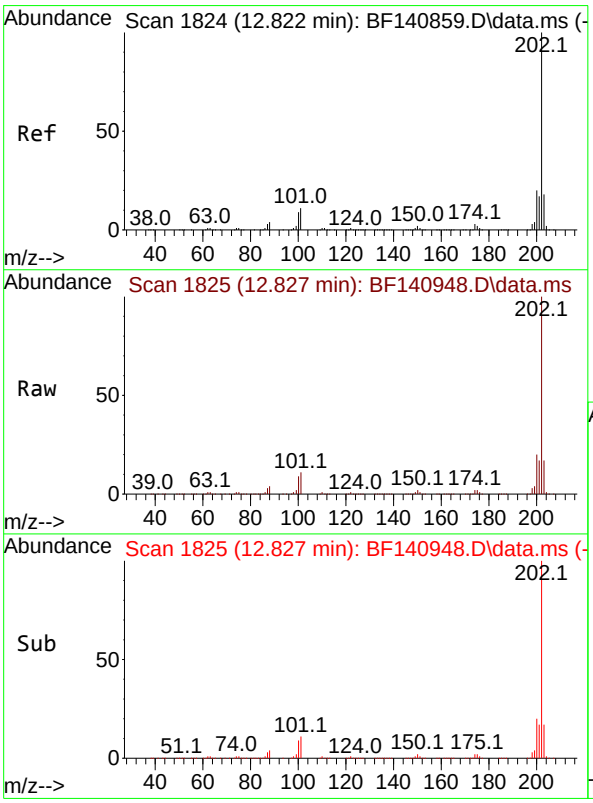
#77
Benzidine
Concen: 46.021 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:184 Resp: 125211

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.1	16.7
183	10.9	9.0	13.4

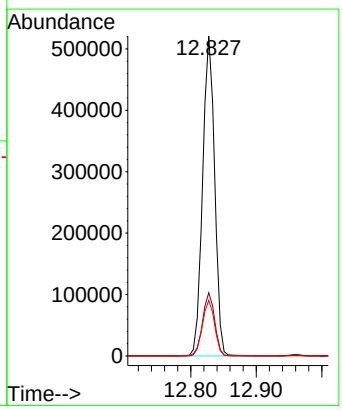


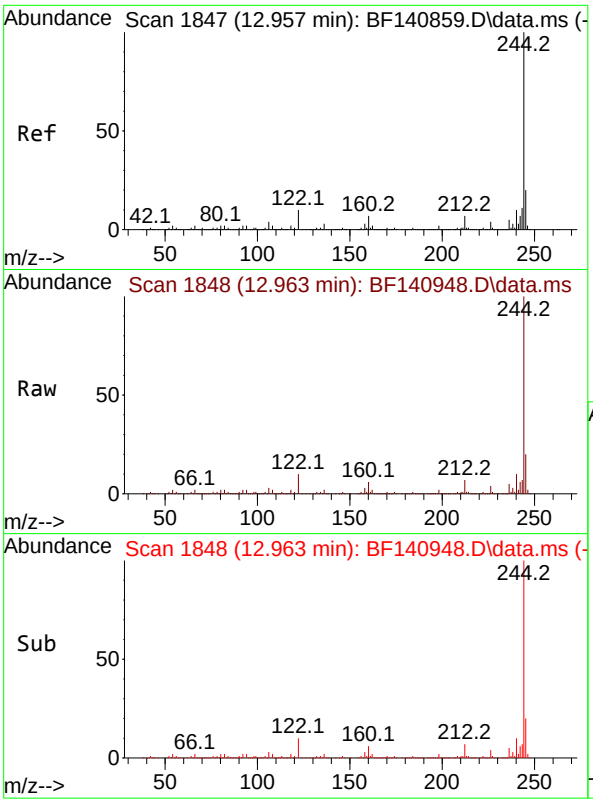


#78
Pyrene
Concen: 56.171 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:202 Resp: 665883

Ion	Ratio	Lower	Upper
202	100		
200	19.7	16.1	24.1
203	17.4	14.2	21.4



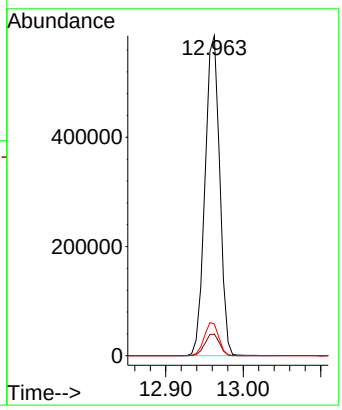


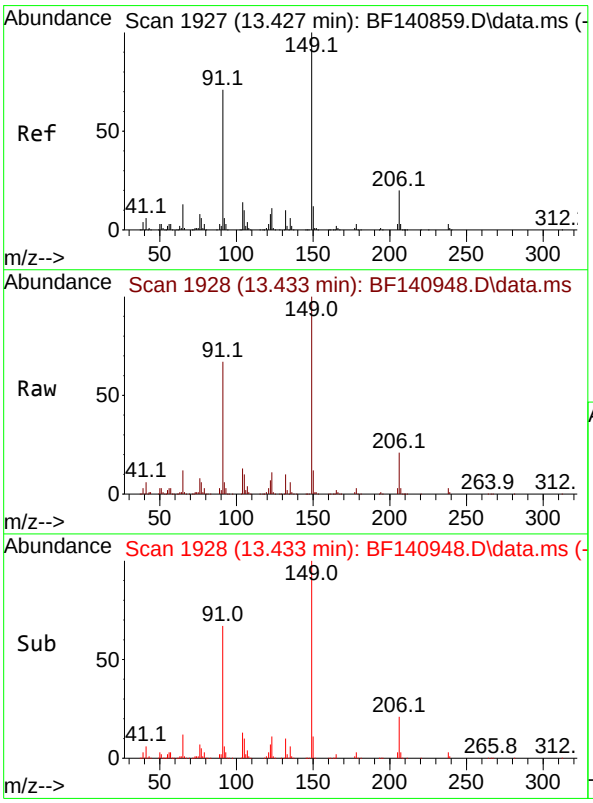
#79
Terphenyl-d14
Concen: 91.048 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:244 Resp: 769721

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	9.9	8.2	12.2

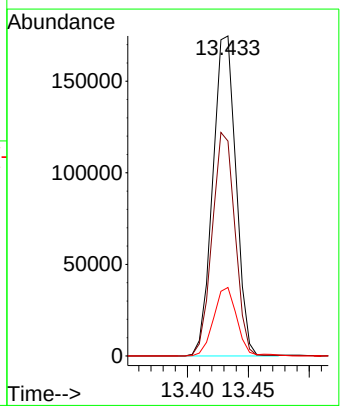


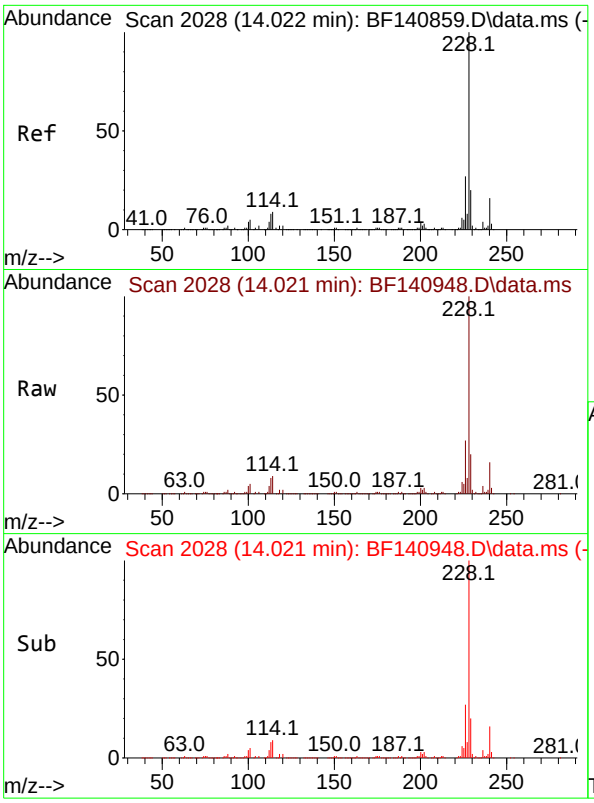


#80
Butylbenzylphthalate
Concen: 53.133 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 231762

Ion	Ratio	Lower	Upper
149	100		
91	67.1	56.7	85.1
206	21.4	16.4	24.6



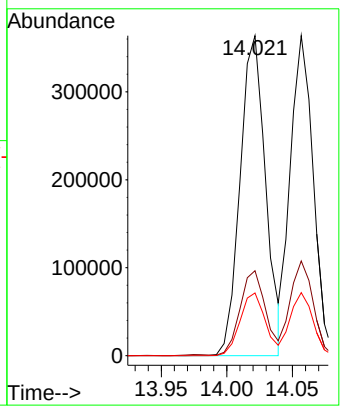


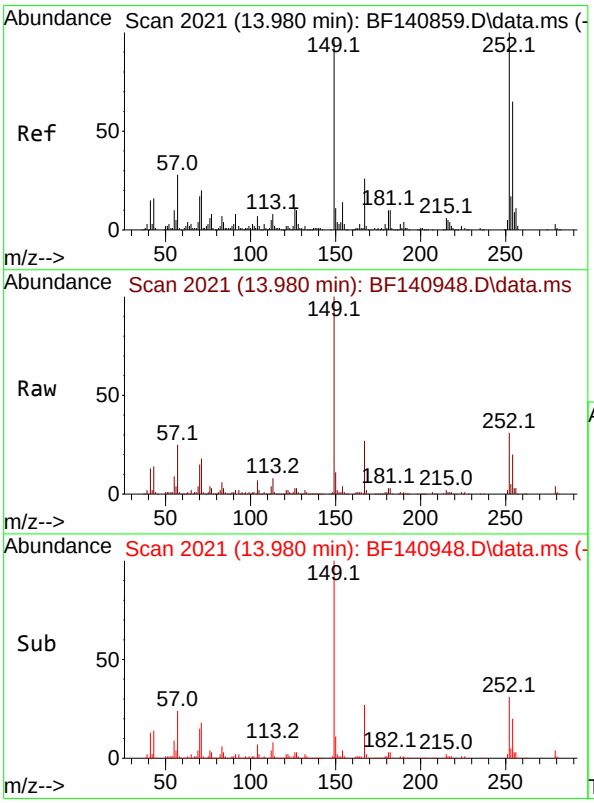
#81
Benzo(a)anthracene
Concen: 52.168 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:228 Resp: 492886

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.8	32.8
229	19.6	15.8	23.8

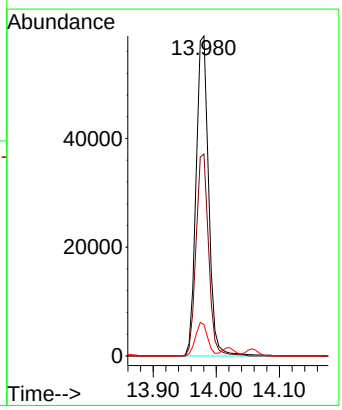


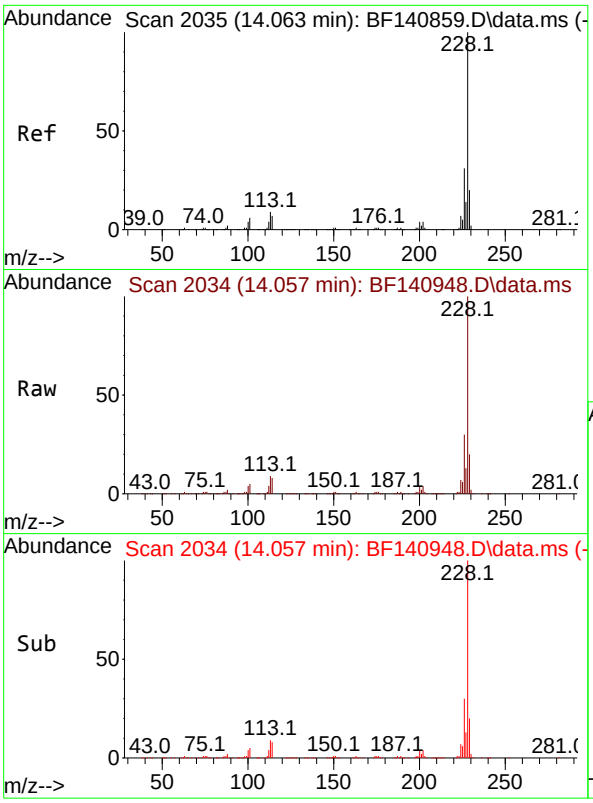


#82
3,3'-Dichlorobenzidine
Concen: 28.561 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:252 Resp: 81414

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.3	78.5
126	9.8	8.4	12.6



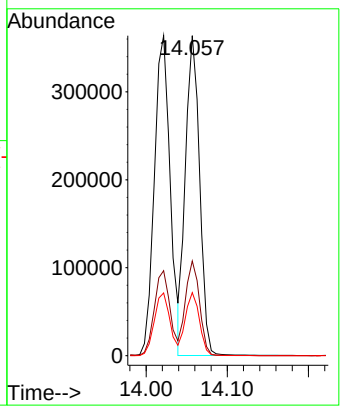


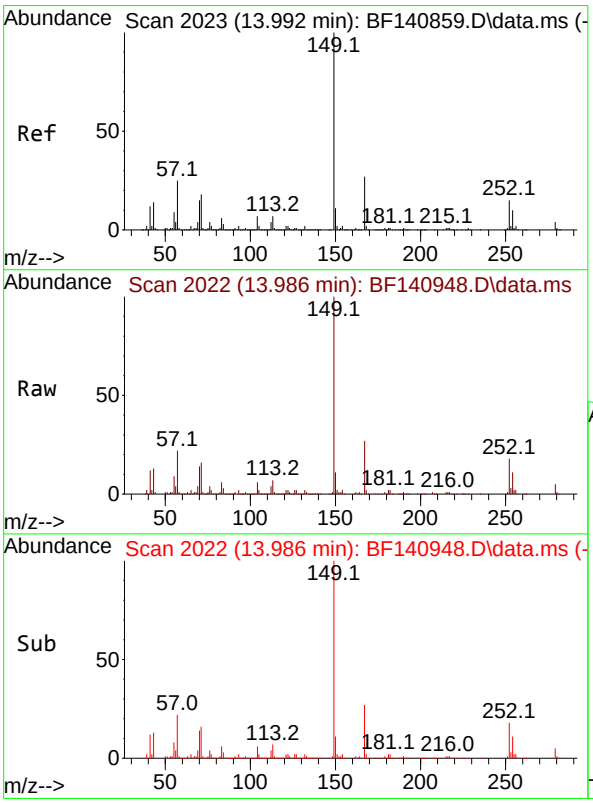
#83
Chrysene
Concen: 51.436 ng
RT: 14.057 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:228 Resp: 441907

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.1	36.1
229	19.7	16.0	24.0

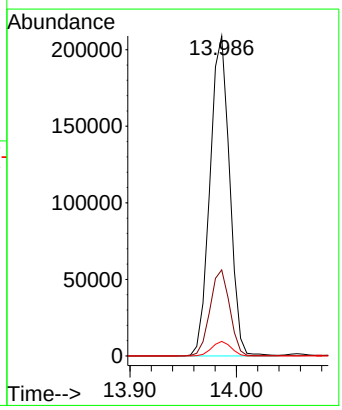


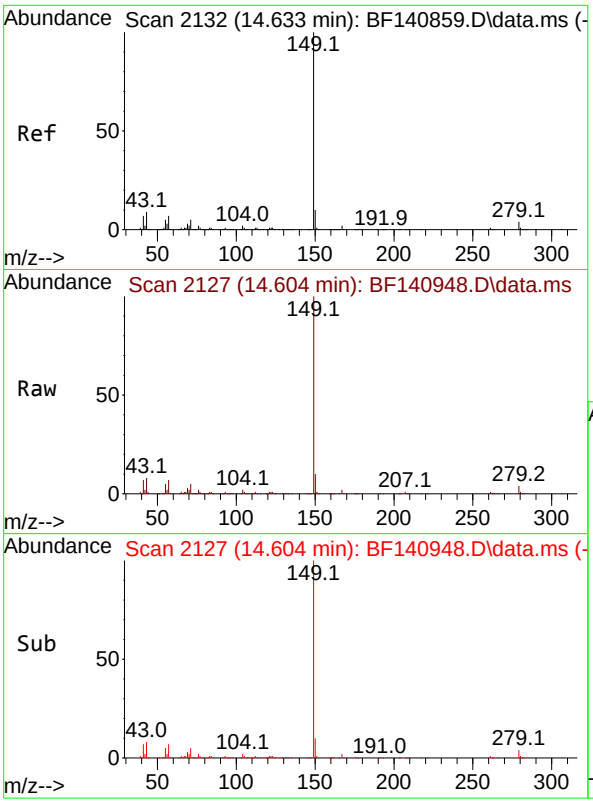


#84
Bis(2-ethylhexyl)phthalate
Concen: 47.624 ng
RT: 13.986 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:149 Resp: 267856

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.8	32.8
279	4.5	3.5	5.3



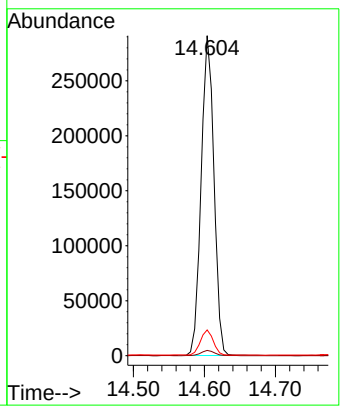


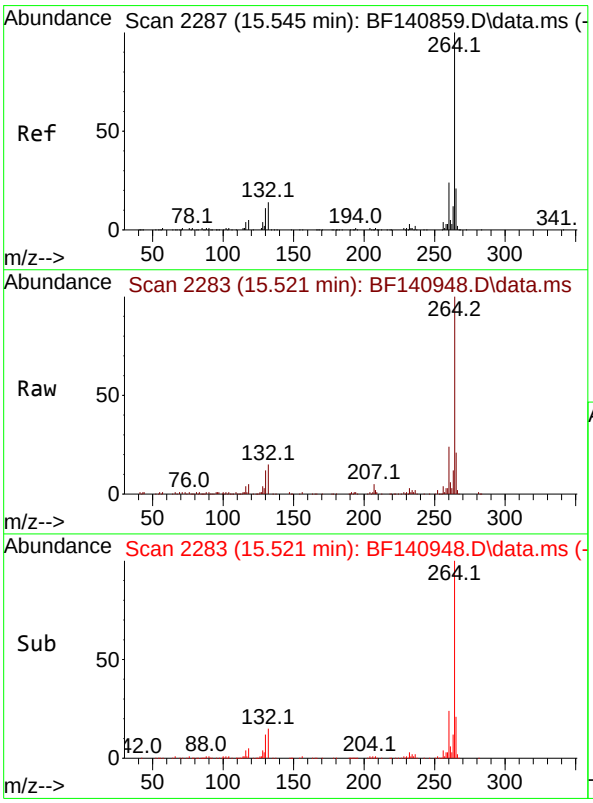
#85
Di-n-octyl phthalate
Concen: 42.906 ng
RT: 14.604 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:149 Resp: 365090

Ion	Ratio	Lower	Upper
149	100		
167	1.8	1.3	1.9
43	8.0	7.0	10.6

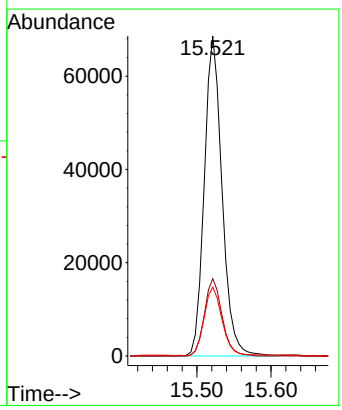


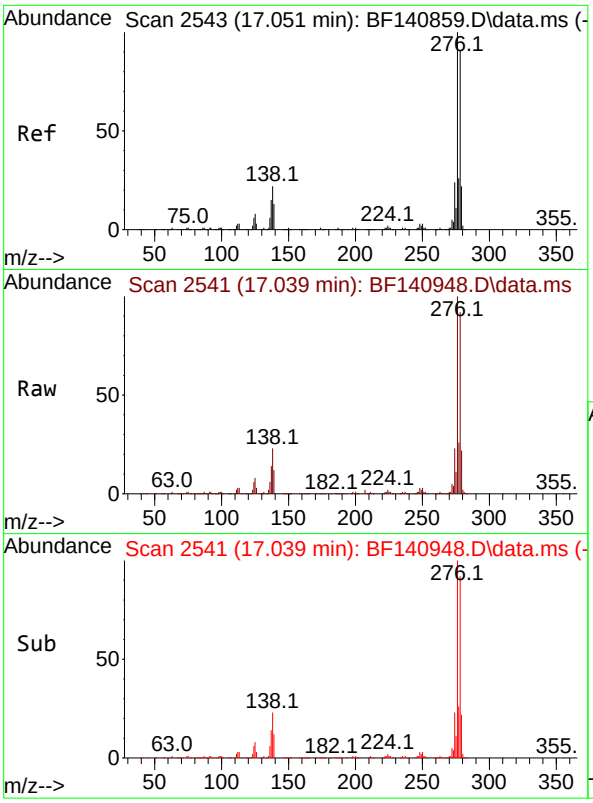


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:264 Resp: 114231

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.1	28.7
265	21.5	17.0	25.4



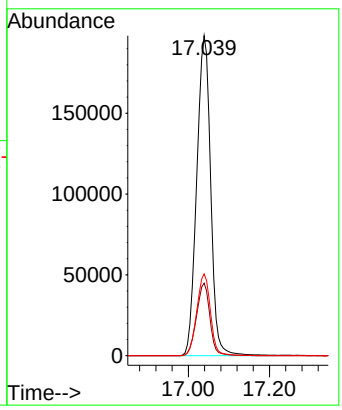


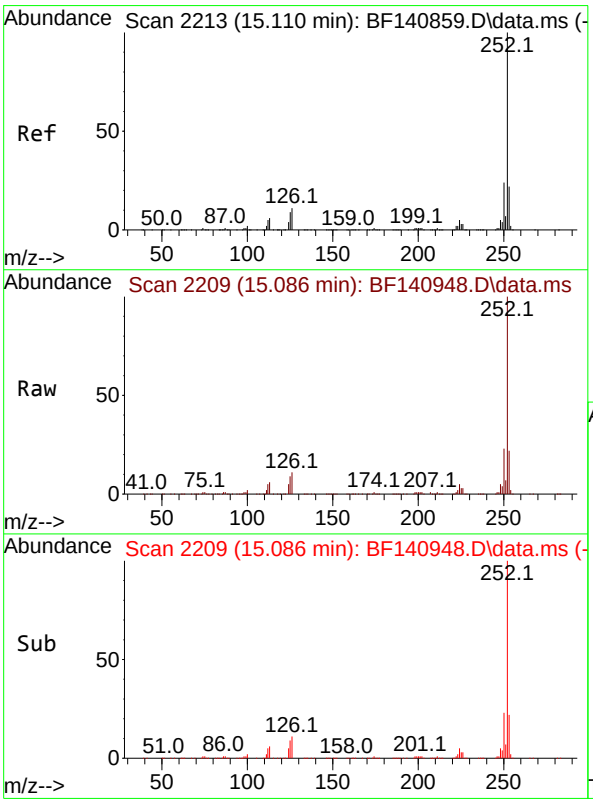
#87
Indeno(1,2,3-cd)pyrene
Concen: 66.539 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:276 Resp: 474317

Ion	Ratio	Lower	Upper
276	100		
138	21.7	16.9	25.3
277	25.0	20.2	30.4

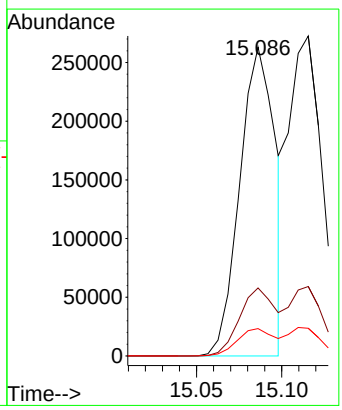


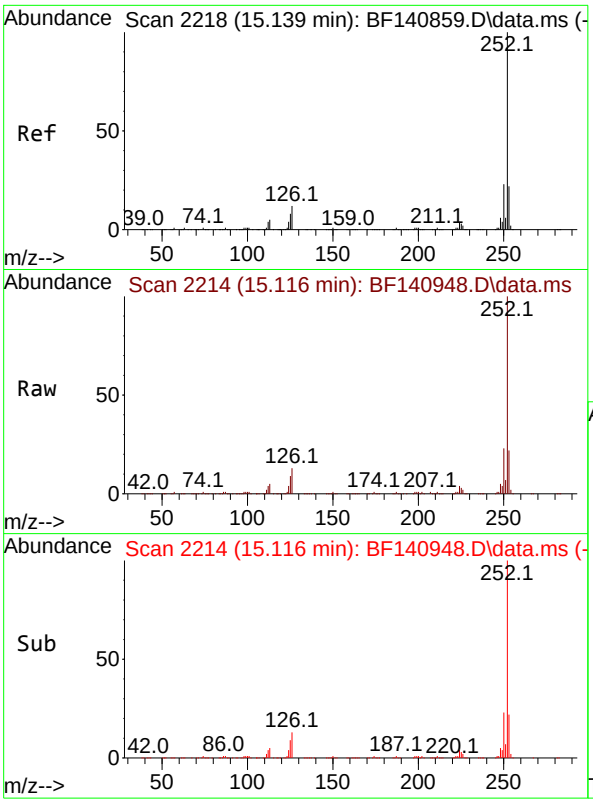


#88
Benzo(b)fluoranthene
Concen: 48.060 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:252 Resp: 381086

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	8.9	7.0	10.4



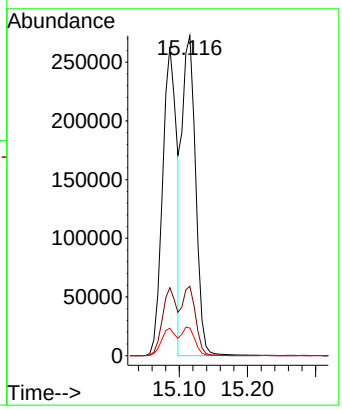


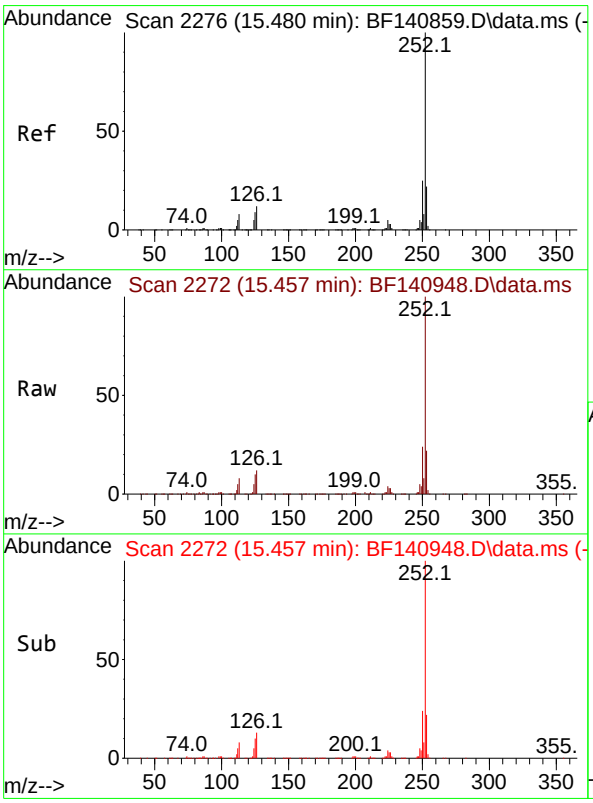
#89
Benzo(k)fluoranthene
Concen: 54.968 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:252 Resp: 373879

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.7	6.8	10.2

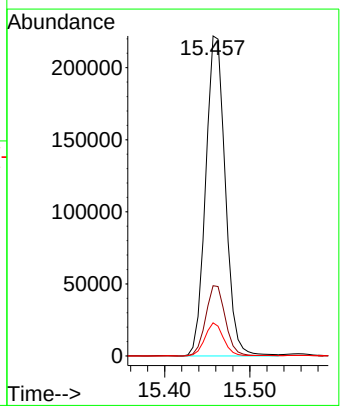


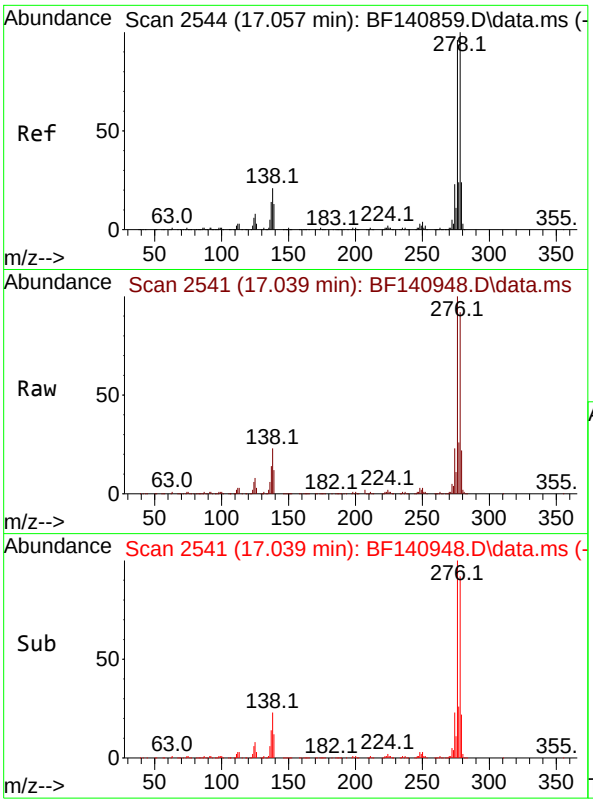


#90
Benzo(a)pyrene
Concen: 57.316 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.024 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:252 Resp: 355872

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.3	7.5	11.3



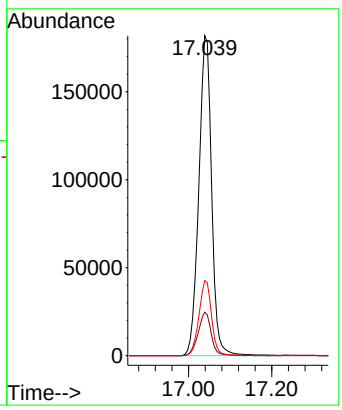


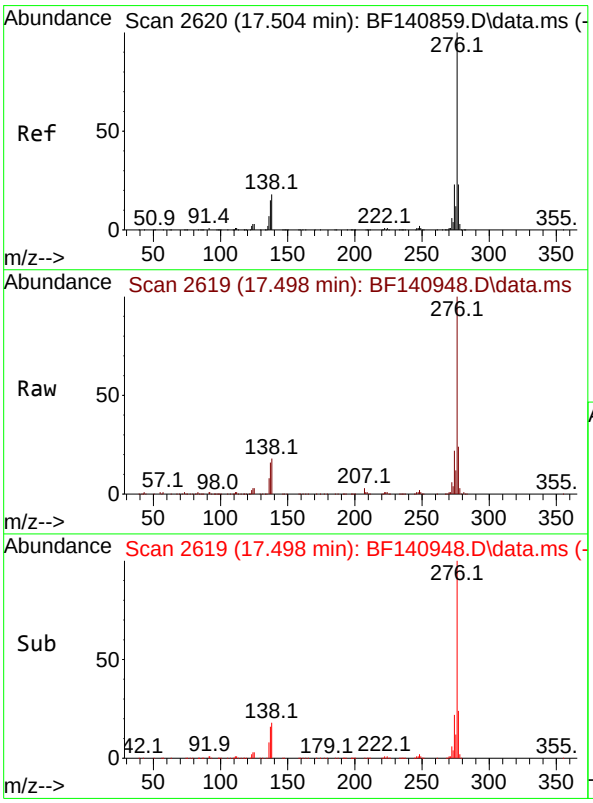
#91
Dibenzo(a,h)anthracene
Concen: 66.055 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MS

Tgt Ion:278 Resp: 390092

Ion	Ratio	Lower	Upper
278	100		
139	13.6	10.6	16.0
279	23.5	19.2	28.8

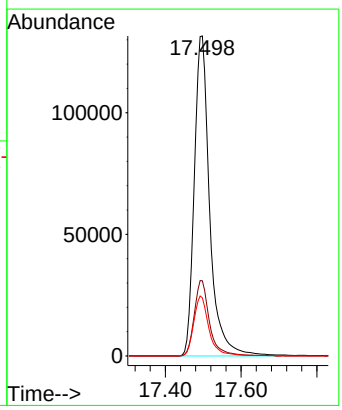




#92
Benzo(g,h,i)perylene
Concen: 62.119 ng
RT: 17.498 min Scan# 2619
Delta R.T. -0.006 min
Lab File: BF140948.D
Acq: 20 Dec 2024 14:10

Tgt Ion:276 Resp: 373367

Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.7	28.1
138	18.1	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140949.D
Acq On : 20 Dec 2024 14:36
Operator : RC/JU
Sample : P5306-09MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Quant Time: Dec 20 15:07:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	45949	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	175670	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	102157	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	188148	20.000	ng		0.00
76) Chrysene-d12	14.045	240	131096	20.000	ng		0.01
86) Perylene-d12	15.562	264	113765	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	397303	142.339	ng		0.01
7) Phenol-d6	6.504	99	518890	140.353	ng		0.00
23) Nitrobenzene-d5	7.416	82	315005	89.714	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	162262	134.298	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	644674	86.762	ng		0.00
79) Terphenyl-d14	12.963	244	767138	92.274	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.710	88	57585	47.896	ng		98
3) Pyridine	3.481	79	136795	49.130	ng		99
4) n-Nitrosodimethylamine	3.434	42	71728	51.102	ng		96
6) Aniline	6.516	93	130848	41.394	ng	#	70
8) 2-Chlorophenol	6.645	128	172137	56.552	ng		99
9) Benzaldehyde	6.410	77	33958	16.577	ng		99
10) Phenol	6.516	94	224652	58.630	ng		98
11) bis(2-Chloroethyl)ether	6.587	93	152512	53.372	ng		98
12) 1,3-Dichlorobenzene	6.786	146	181700	52.387	ng		97
13) 1,4-Dichlorobenzene	6.869	146	185568	52.708	ng		99
14) 1,2-Dichlorobenzene	7.016	146	176510	53.137	ng		99
15) Benzyl Alcohol	7.004	79	151766	57.414	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.116	45	177636	52.770	ng		91
17) 2-Methylphenol	7.122	107	138692	57.071	ng		98
18) Hexachloroethane	7.351	117	66118	50.446	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	119168	53.736	ng		99
20) 3+4-Methylphenols	7.275	107	185300	57.503	ng	#	82
22) Acetophenone	7.263	105	241328	54.917	ng		94
24) Nitrobenzene	7.439	77	180083	50.063	ng		95
25) Isophorone	7.675	82	314395	53.439	ng		99
26) 2-Nitrophenol	7.751	139	94485	57.032	ng		95
27) 2,4-Dimethylphenol	7.792	122	127969	66.141	ng		98
28) bis(2-Chloroethoxy)met...	7.881	93	188944	51.420	ng		99
29) 2,4-Dichlorophenol	8.004	162	149408	55.934	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	153263	50.051	ng		98
31) Naphthalene	8.151	128	517245	53.602	ng		99
32) Benzoic acid	7.945	122	71840	39.151	ng		97
33) 4-Chloroaniline	8.210	127	70709	22.062	ng		97
34) Hexachlorobutadiene	8.263	225	100776	48.916	ng		100
35) Caprolactam	8.592	113	34636	43.555	ng		89
36) 4-Chloro-3-methylphenol	8.710	107	163449	54.366	ng		99
37) 2-Methylnaphthalene	8.845	142	343391	53.795	ng		100
38) 1-Methylnaphthalene	8.945	142	318541	50.458	ng		99
40) 1,2,4,5-Tetrachloroben...	9.010	216	169136	53.866	ng		98
41) Hexachlorocyclopentadiene	8.992	237	31402	41.662	ng		100
43) 2,4,6-Trichlorophenol	9.133	196	102644	53.386	ng		98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140949.D
Acq On : 20 Dec 2024 14:36
Operator : RC/JU
Sample : P5306-09MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Quant Time: Dec 20 15:07:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	107412	50.828	ng	99
46) 1,1'-Biphenyl	9.304	154	433578	53.374	ng	99
47) 2-Chloronaphthalene	9.333	162	319959	51.486	ng	98
48) 2-Nitroaniline	9.439	65	100764	53.688	ng	94
49) Acenaphthylene	9.751	152	529169	57.943	ng	99
50) Dimethylphthalate	9.604	163	378063	52.492	ng	100
51) 2,6-Dinitrotoluene	9.680	165	84402	51.261	ng	95
52) Acenaphthene	9.922	154	324577	55.638	ng	99
53) 3-Nitroaniline	9.857	138	49243	30.137	ng	93
54) 2,4-Dinitrophenol	9.980	184	79873	97.834	ng	93
55) Dibenzofuran	10.092	168	493268	54.567	ng	100
56) 4-Nitrophenol	10.045	139	72978	82.863	ng	97
57) 2,4-Dinitrotoluene	10.092	165	113633	52.453	ng	99
58) Fluorene	10.439	166	397342	53.279	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	97009	56.336	ng	91
60) Diethylphthalate	10.304	149	376001	50.345	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	193903	51.761	ng	98
62) 4-Nitroaniline	10.474	138	80656	47.236	ng	97
63) Azobenzene	10.586	77	404359	57.590	ng	95
65) 4,6-Dinitro-2-methylph...	10.510	198	64685	60.672	ng	96
66) n-Nitrosodiphenylamine	10.545	169	341229	58.988	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	117531	55.838	ng	96
68) Hexachlorobenzene	10.992	284	133215	55.821	ng	98
69) Atrazine	11.074	200	111739	69.163	ng	99
70) Pentachlorophenol	11.198	266	74523	85.412	ng	98
71) Phenanthrene	11.404	178	569035	58.813	ng	99
72) Anthracene	11.457	178	585440	61.442	ng	100
73) Carbazole	11.616	167	541131	57.981	ng	100
74) Di-n-butylphthalate	11.927	149	577959	52.767	ng	99
75) Fluoranthene	12.598	202	628778	56.429	ng	100
77) Benzidine	12.721	184	132623	49.567	ng	99
78) Pyrene	12.827	202	642867	55.145	ng	100
80) Butylbenzylphthalate	13.433	149	231266	53.914	ng	97
81) Benzo(a)anthracene	14.033	228	508709	54.752	ng	99
82) 3,3'-Dichlorobenzidine	13.986	252	84711	30.219	ng	98
83) Chrysene	14.068	228	458342	54.249	ng	99
84) Bis(2-ethylhexyl)phtha...	13.998	149	277592	50.188	ng	99
85) Di-n-octyl phthalate	14.639	149	383542	45.836	ng	98
87) Indeno(1,2,3-cd)pyrene	17.086	276	486592	68.540	ng	99
88) Benzo(b)fluoranthene	15.127	252	420442	53.241	ng	99
89) Benzo(k)fluoranthene	15.151	252	378547	55.882	ng	100
90) Benzo(a)pyrene	15.504	252	372093	60.174	ng	100
91) Dibenzo(a,h)anthracene	17.092	278	395812	67.298	ng	99
92) Benzo(g,h,i)perylene	17.545	276	366040	61.149	ng	99

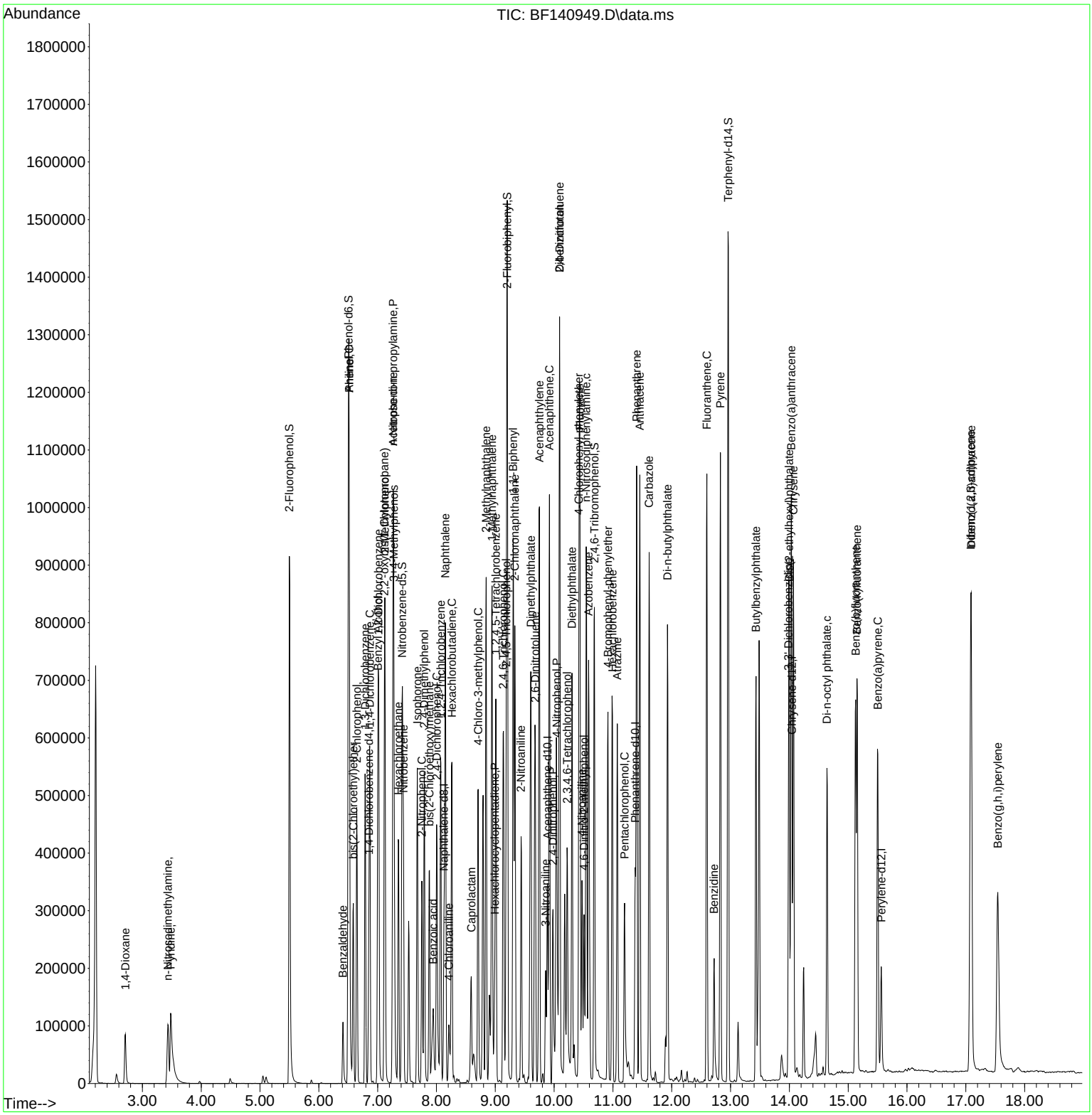
(#) = qualifier out of range (m) = manual integration (+) = signals summed

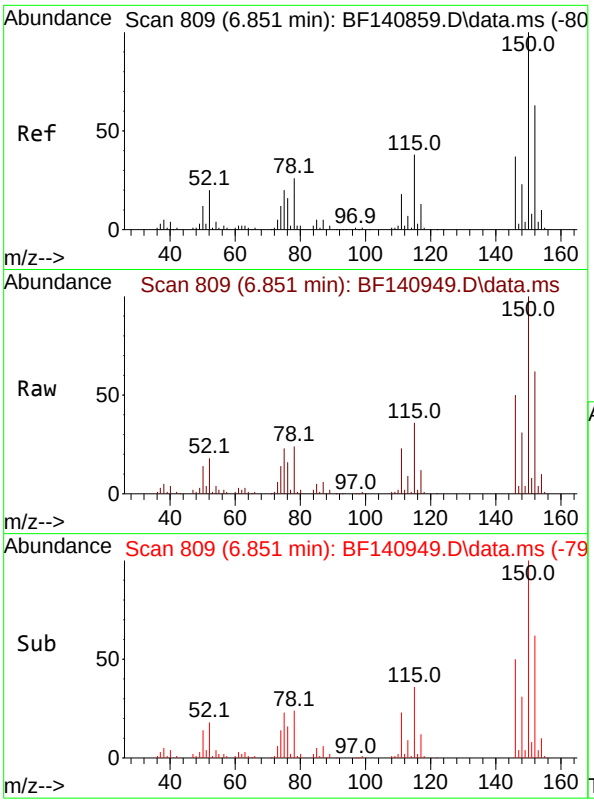
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140949.D
Acq On : 20 Dec 2024 14:36
Operator : RC/JU
Sample : P5306-09MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Quant Time: Dec 20 15:07:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



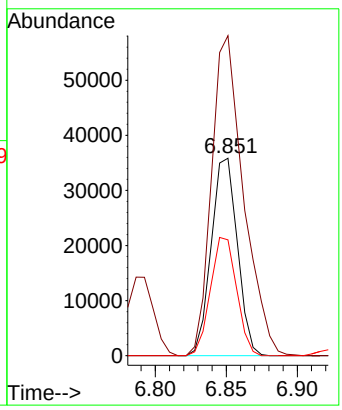


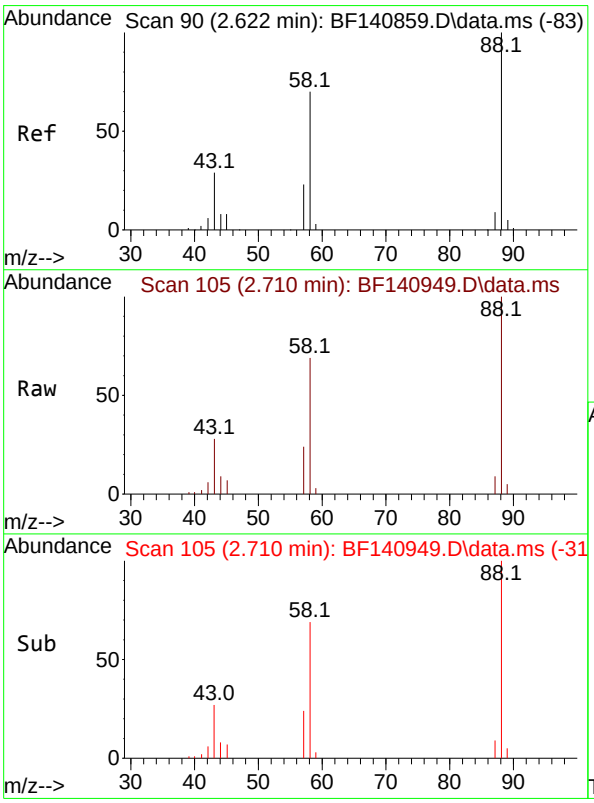
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:152 Resp: 45949

Ion	Ratio	Lower	Upper
152	100		
150	162.1	127.9	191.9
115	58.7	48.0	72.0

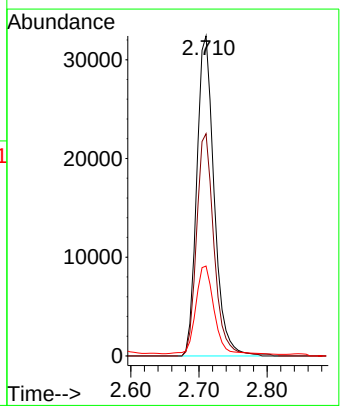


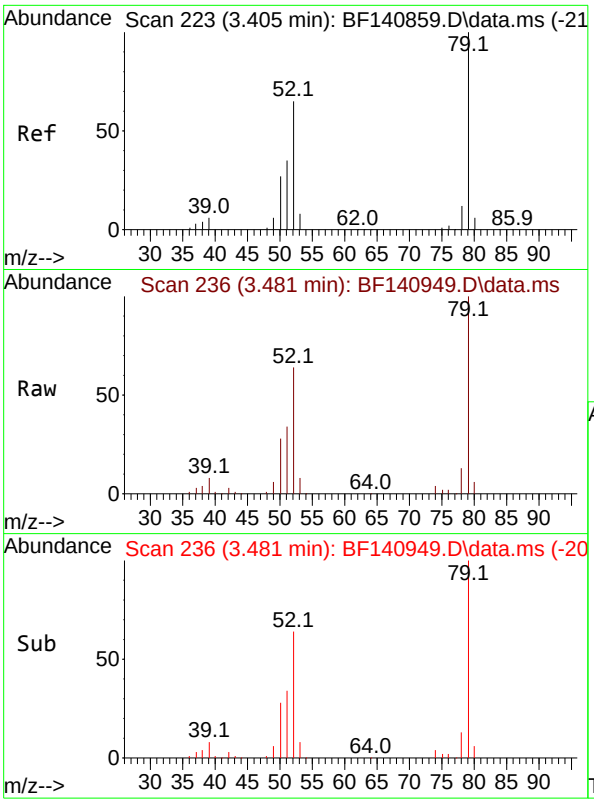


#2
1,4-Dioxane
Concen: 47.896 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.088 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 88 Resp: 57585

Ion	Ratio	Lower	Upper
88	100		
58	69.3	55.8	83.8
43	30.7	22.7	34.1



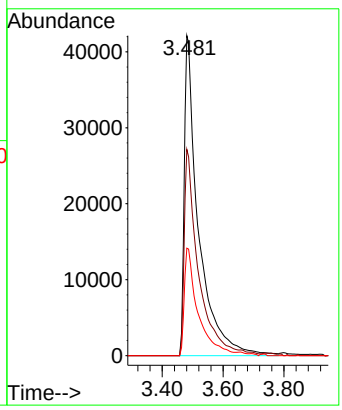


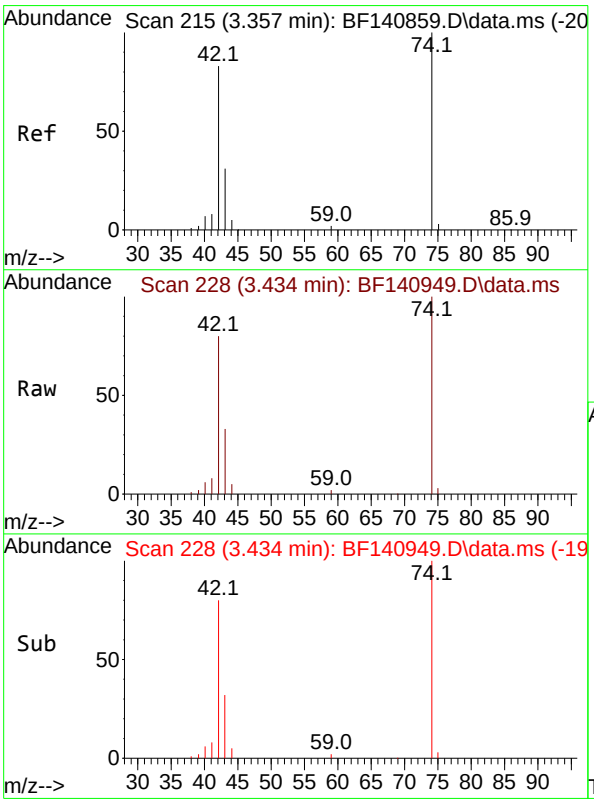
#3
Pyridine
Concen: 49.130 ng
RT: 3.481 min Scan# 2
Delta R.T. 0.076 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 79 Resp: 136795

Ion	Ratio	Lower	Upper
79	100		
52	64.5	51.7	77.5
51	33.6	28.2	42.4

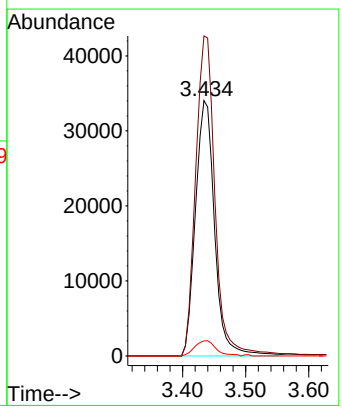


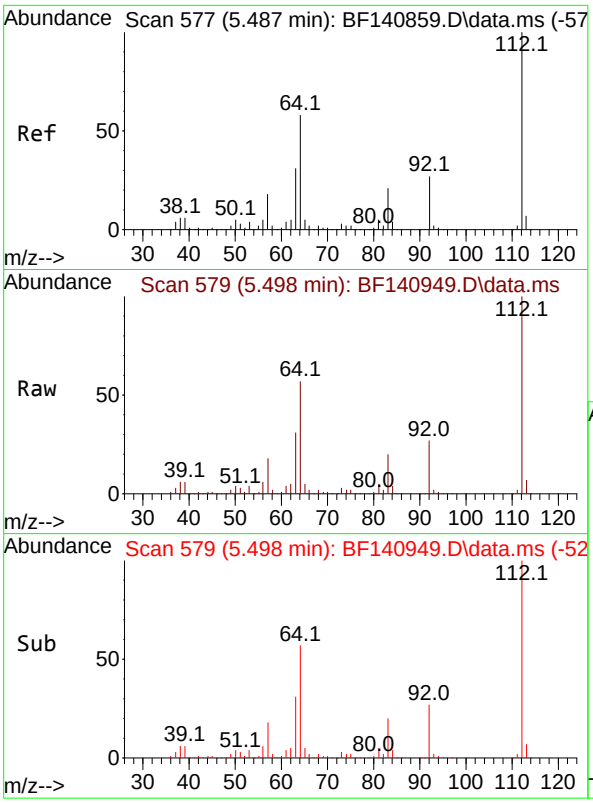


#4
n-Nitrosodimethylamine
Concen: 51.102 ng
RT: 3.434 min Scan# 228
Delta R.T. 0.076 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 42 Resp: 71728

Ion	Ratio	Lower	Upper
42	100		
74	125.3	96.9	145.3
44	5.9	4.4	6.6



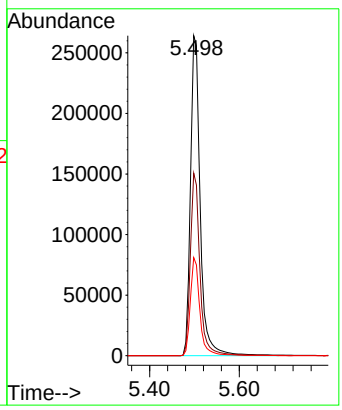


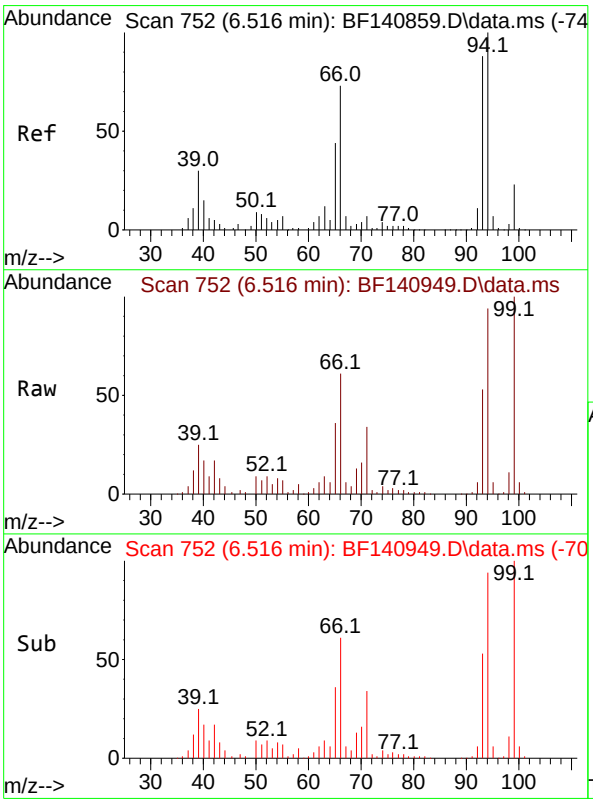
#5
2-Fluorophenol
Concen: 142.339 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:112 Resp: 397303

Ion	Ratio	Lower	Upper
112	100		
64	57.0	46.1	69.1
63	30.7	24.9	37.3

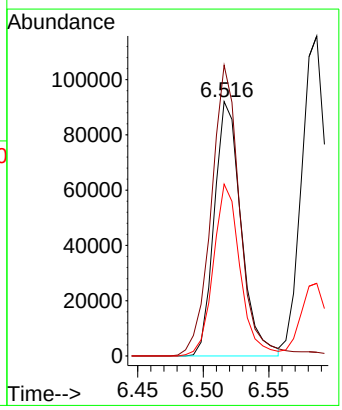


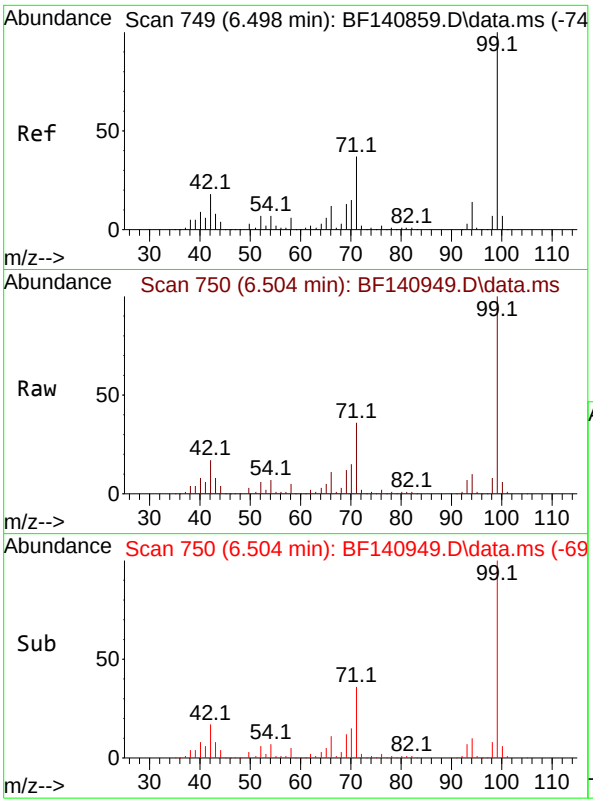


#6
Aniline
Concen: 41.394 ng
RT: 6.516 min Scan# 752
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 93 Resp: 130848

Ion	Ratio	Lower	Upper
93	100		
66	114.3	67.0	100.4#
65	67.5	40.4	60.6#



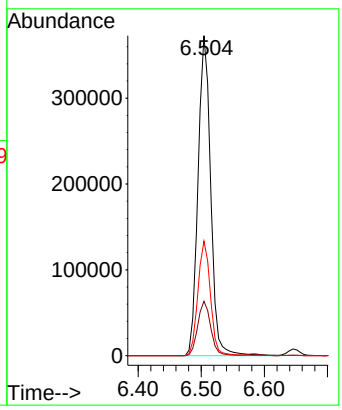


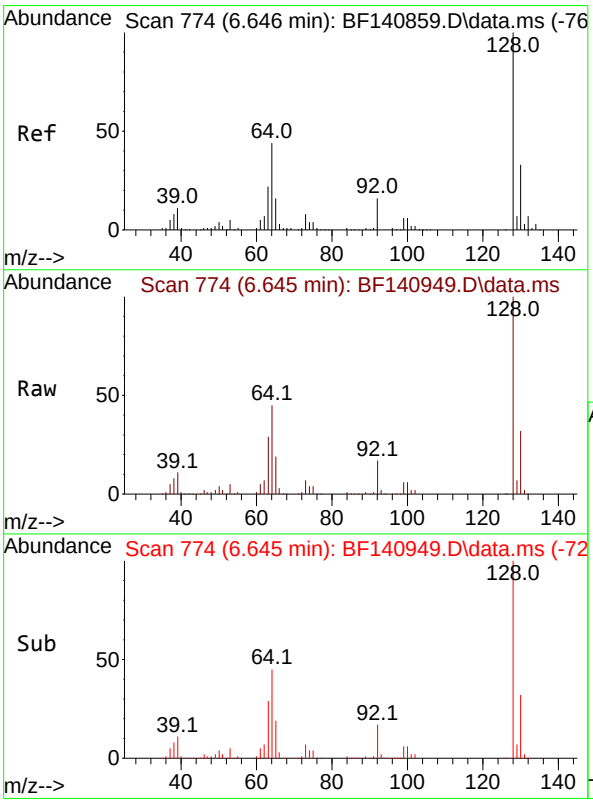
#7
Phenol-d6
Concen: 140.353 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 99 Resp: 518890

Ion	Ratio	Lower	Upper
99	100		
42	17.0	14.3	21.5
71	35.8	29.9	44.9

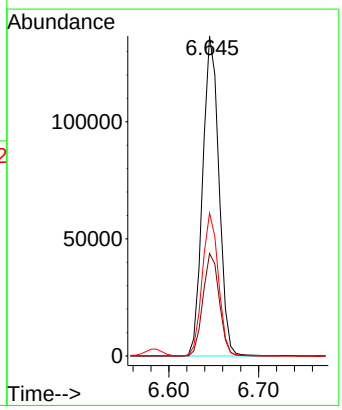


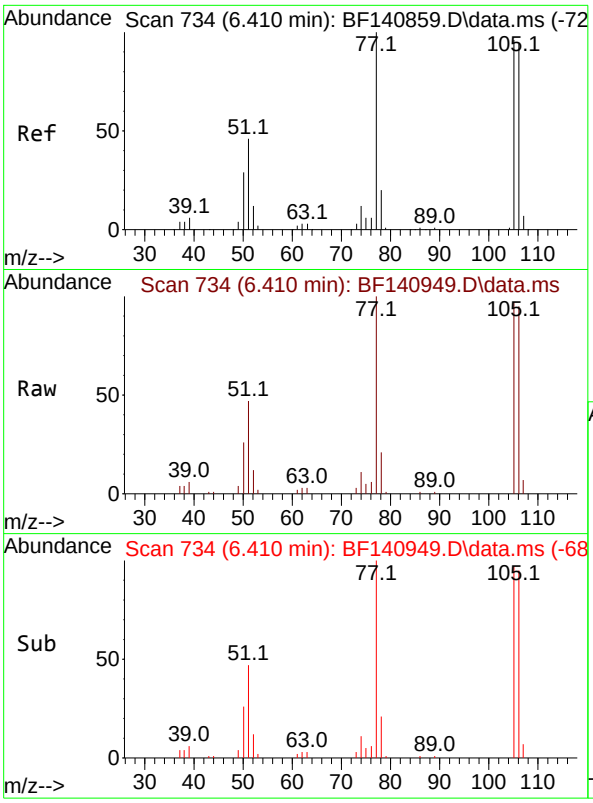


#8
2-Chlorophenol
Concen: 56.552 ng
RT: 6.645 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:128 Resp: 172137

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.9	52.9
64	44.7	24.3	64.3



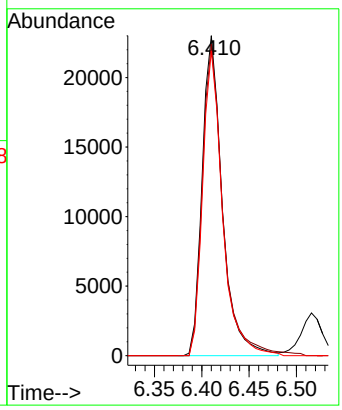


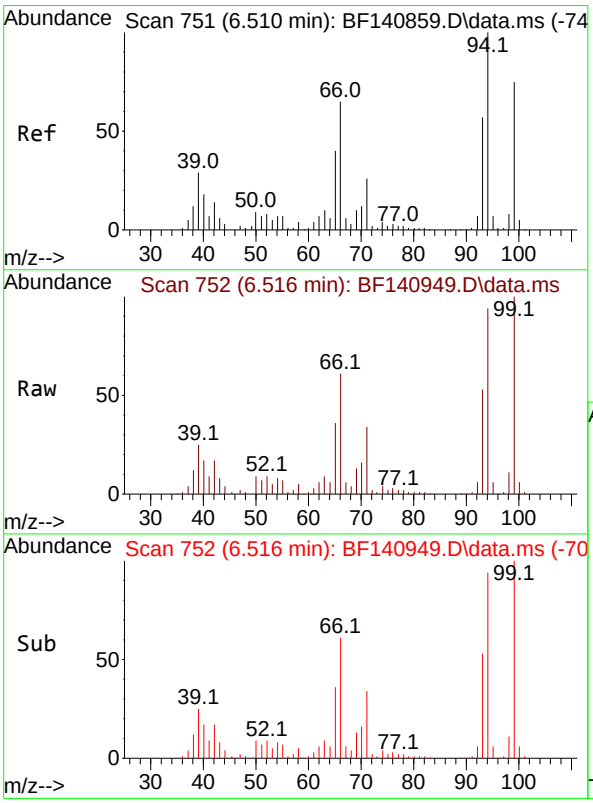
#9
Benzaldehyde
Concen: 16.577 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 77 Resp: 33958

Ion	Ratio	Lower	Upper
77	100		
105	97.4	75.8	115.8
106	95.2	74.1	114.1

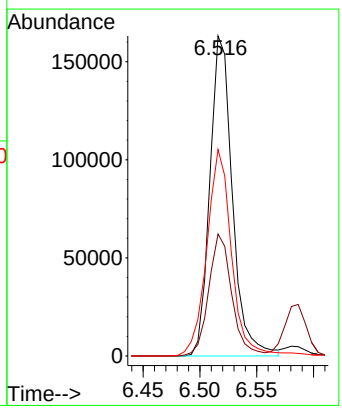


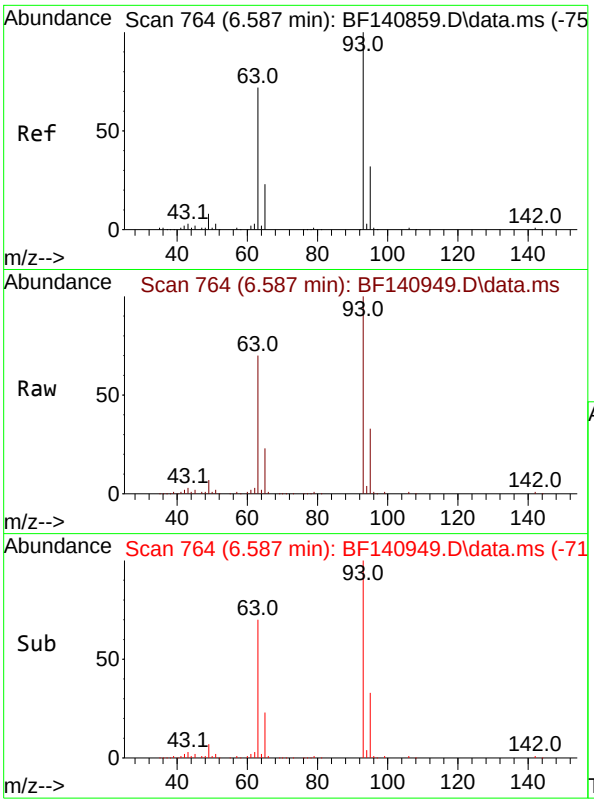


#10
Phenol
Concen: 58.630 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 94 Resp: 224652

Ion	Ratio	Lower	Upper
94	100		
65	38.1	19.9	59.9
66	64.5	45.6	85.6



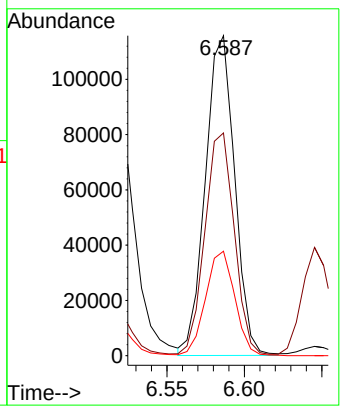


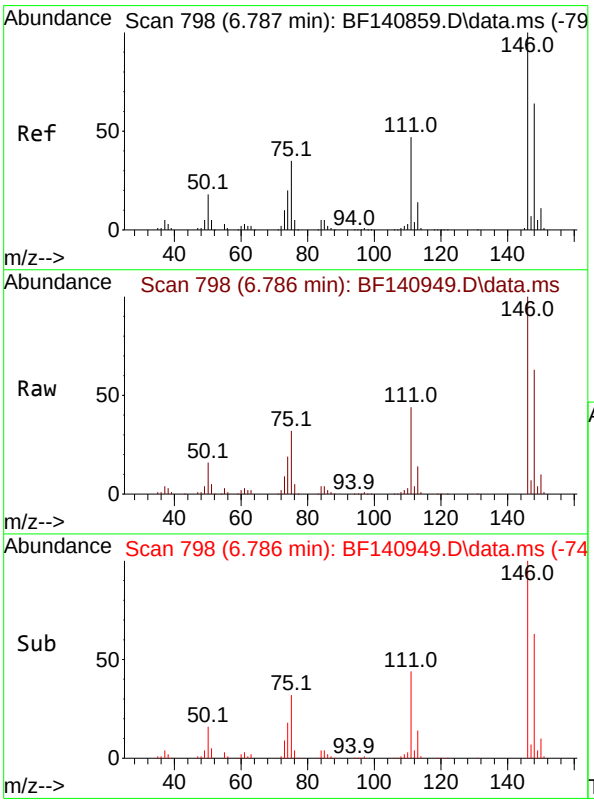
#11
bis(2-Chloroethyl)ether
Concen: 53.372 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 93 Resp: 152512

Ion	Ratio	Lower	Upper
93	100		
63	69.6	51.0	91.0
95	32.6	12.0	52.0

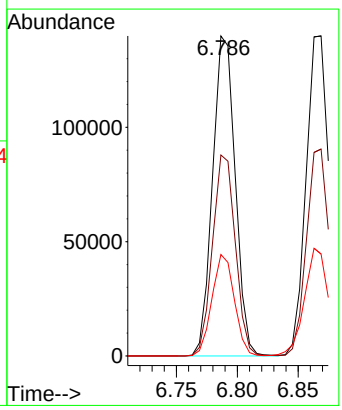


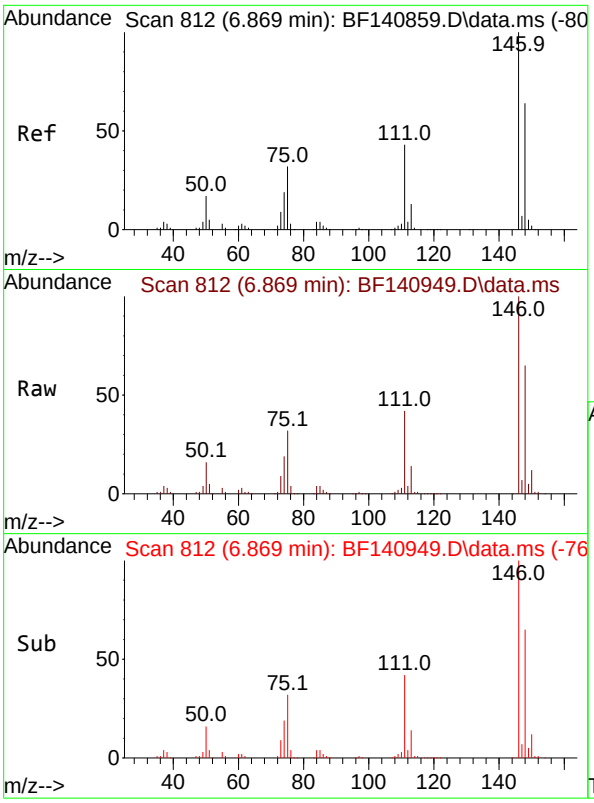


#12
1,3-Dichlorobenzene
Concen: 52.387 ng
RT: 6.786 min Scan# 798
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:146 Resp: 181700

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.0	76.6
75	31.7	28.1	42.1



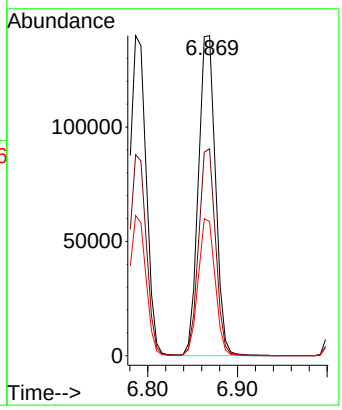


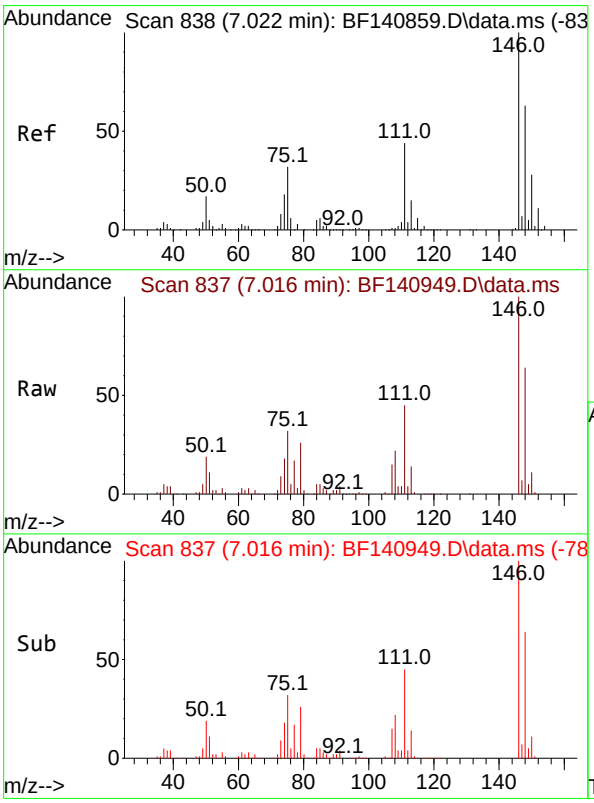
#13
1,4-Dichlorobenzene
Concen: 52.708 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:146 Resp: 185568

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.3	76.9
111	42.0	34.4	51.6

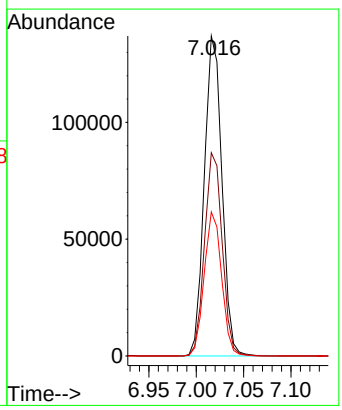


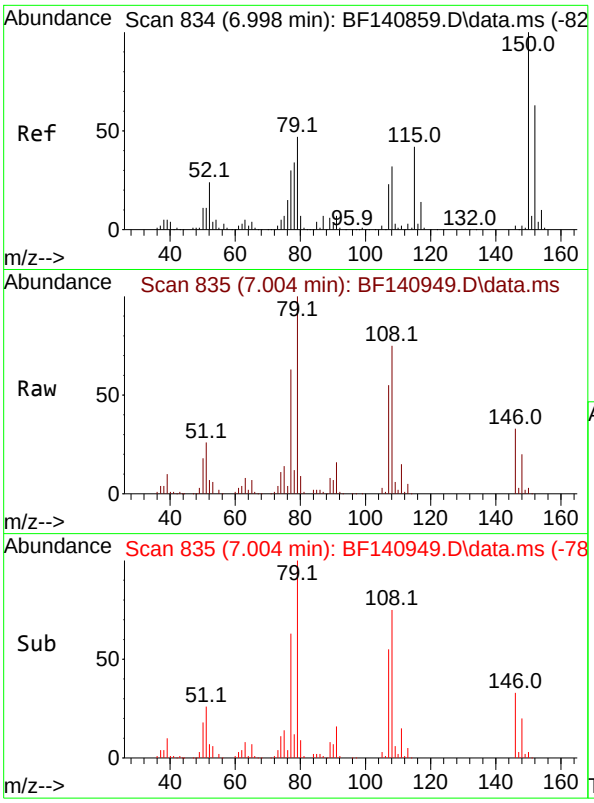


#14
1,2-Dichlorobenzene
Concen: 53.137 ng
RT: 7.016 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:146 Resp: 176510

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.0	75.0
111	45.0	35.6	53.4



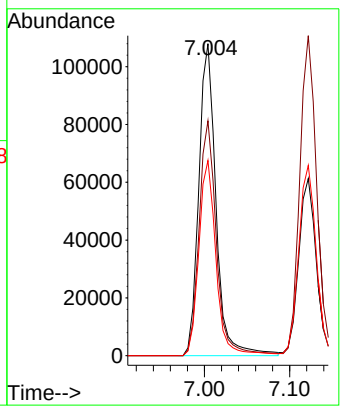


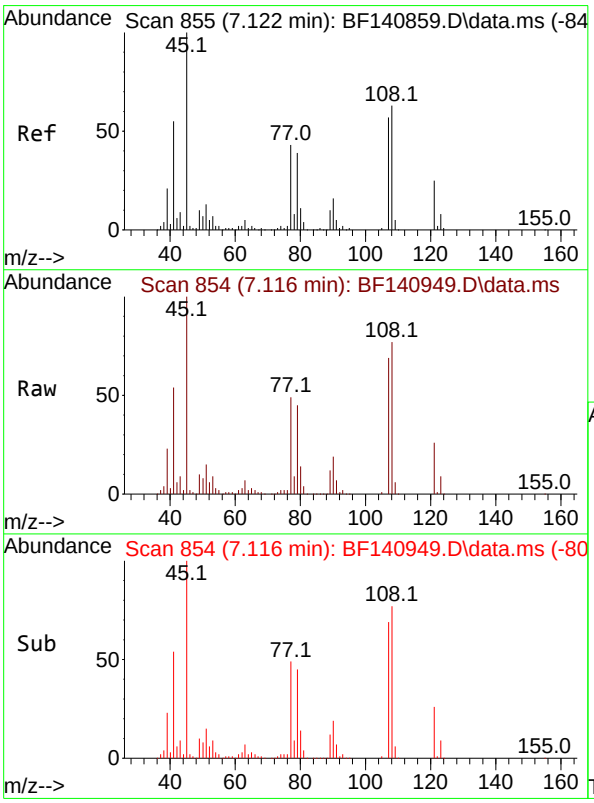
#15
Benzyl Alcohol
Concen: 57.414 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 79 Resp: 151766

Ion	Ratio	Lower	Upper
79	100		
108	75.3	55.1	82.7
77	62.6	50.6	76.0

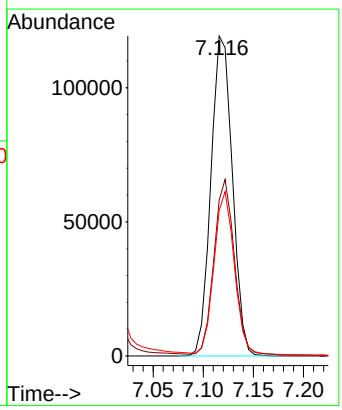


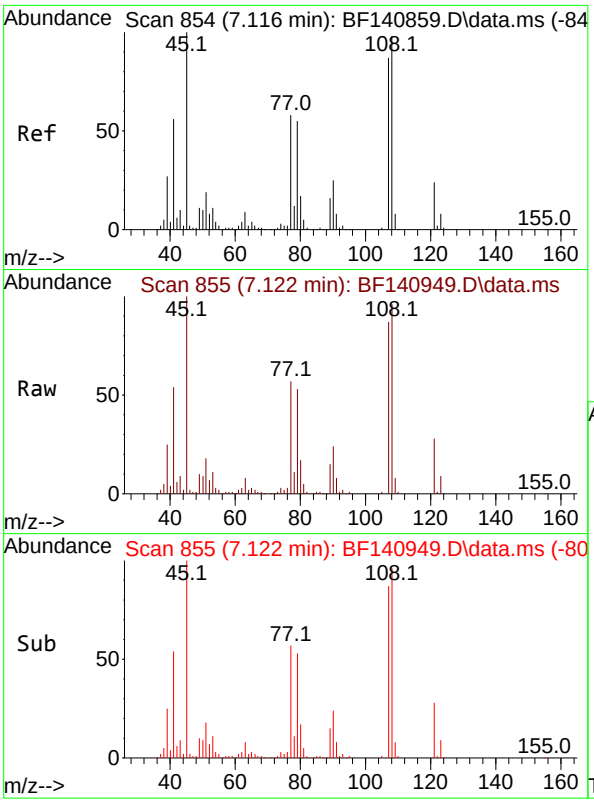


#16
2,2'-oxybis(1-Chloropropane)
Concen: 52.770 ng
RT: 7.116 min Scan# 854
Delta R.T. -0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 45 Resp: 177636

Ion	Ratio	Lower	Upper
45	100		
77	48.7	23.3	63.3
79	45.4	20.0	60.0



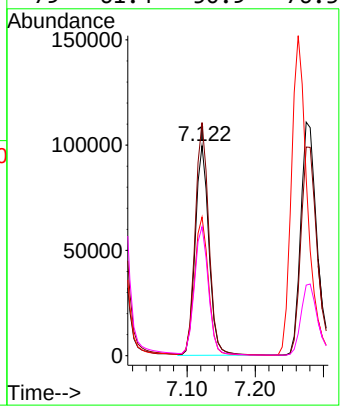


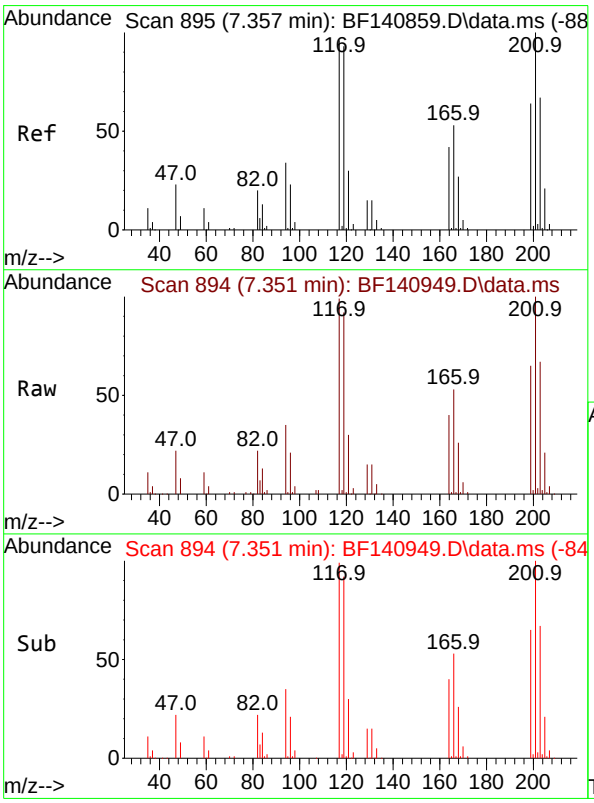
#17
2-Methylphenol
Concen: 57.071 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:107 Resp: 138692

Ion	Ratio	Lower	Upper
107	100		
108	111.0	90.2	135.4
77	65.9	53.8	80.6
79	61.4	50.9	76.3

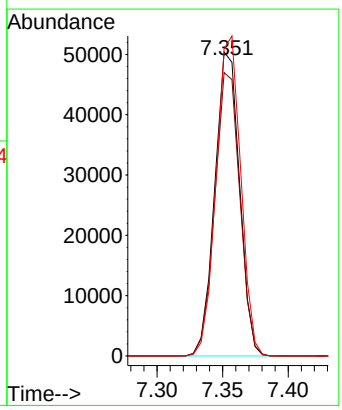


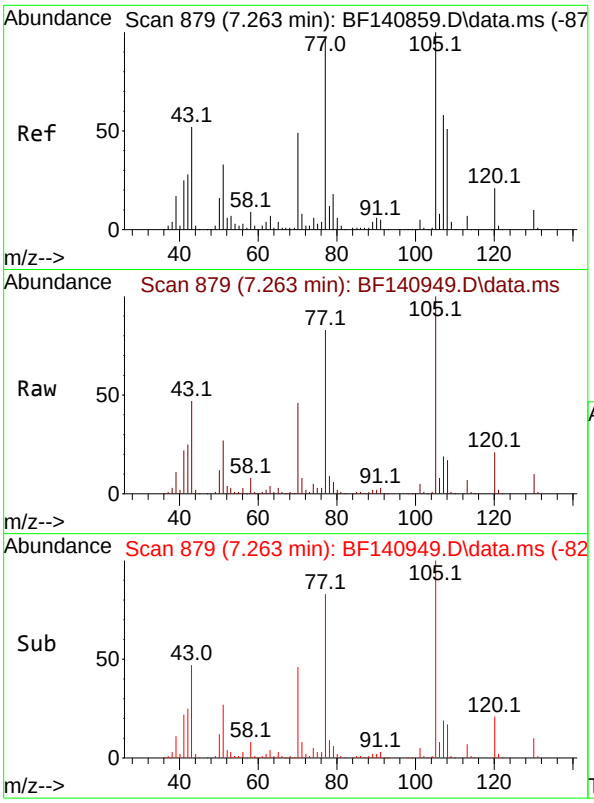


#18
Hexachloroethane
Concen: 50.446 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:117 Resp: 66118

Ion	Ratio	Lower	Upper
117	100		
119	93.2	77.4	116.0
201	101.0	83.4	125.0



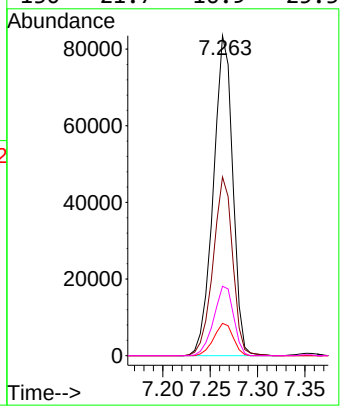


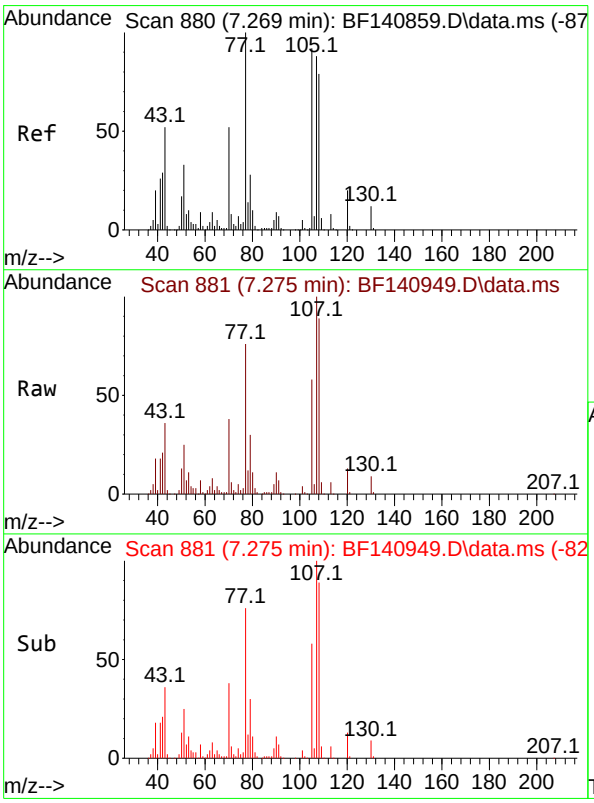
#19
n-Nitroso-di-n-propylamine
Concen: 53.736 ng
RT: 7.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 70 Resp: 119168

Ion	Ratio	Lower	Upper
70	100		
42	55.8	45.3	67.9
101	10.1	8.0	12.0
130	21.7	16.9	25.3

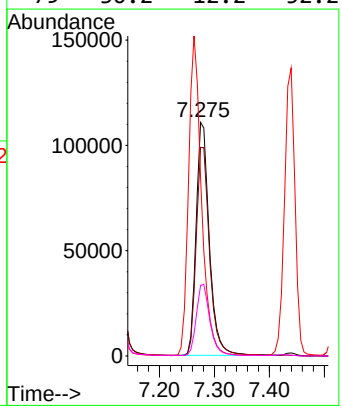


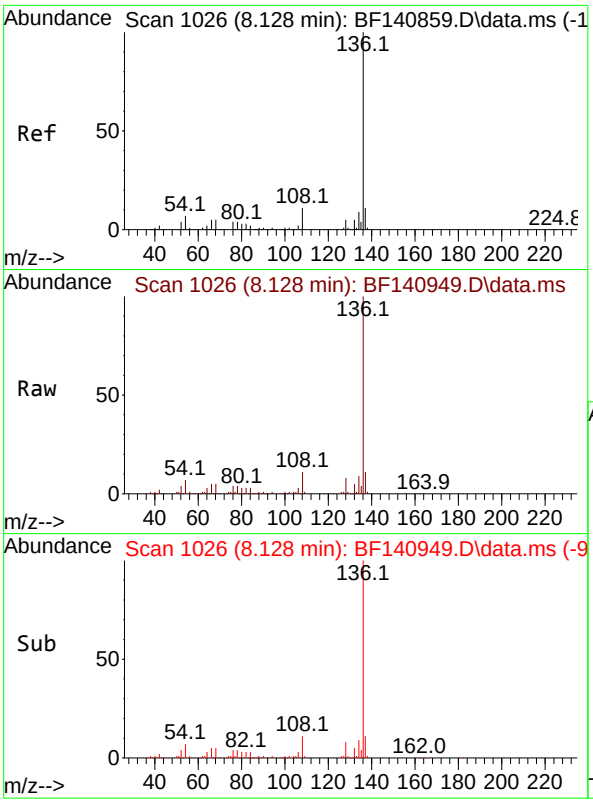


#20
3+4-Methylphenols
Concen: 57.503 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:107 Resp: 185300

Ion	Ratio	Lower	Upper
107	100		
108	89.3	70.1	110.1
77	75.9	94.4	134.4#
79	30.2	12.2	52.2



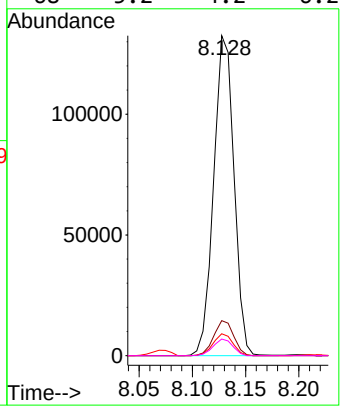


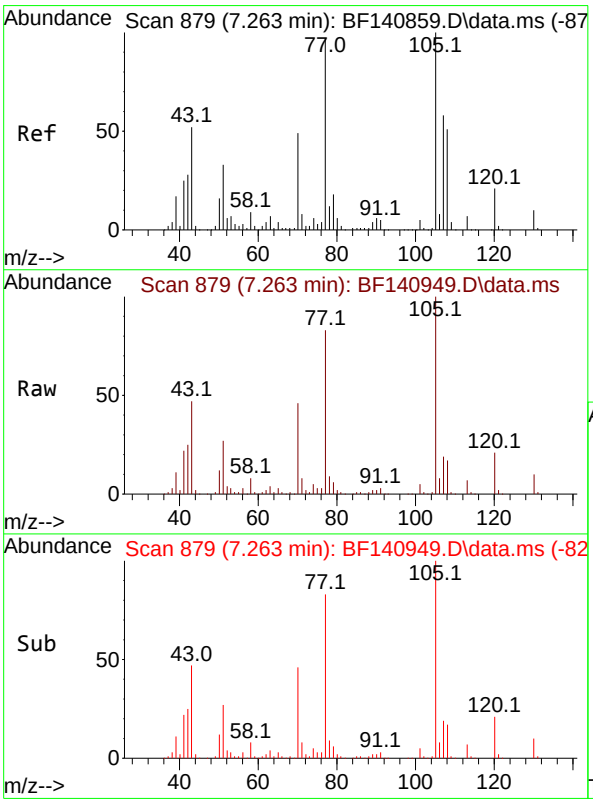
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:136 Resp: 175670

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	6.9	5.6	8.4
68	5.2	4.2	6.2

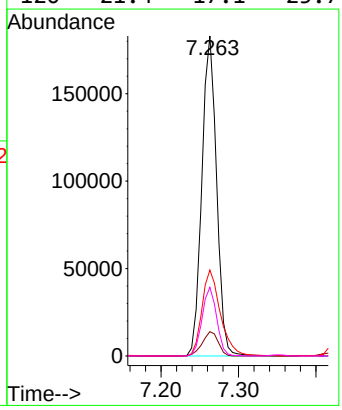


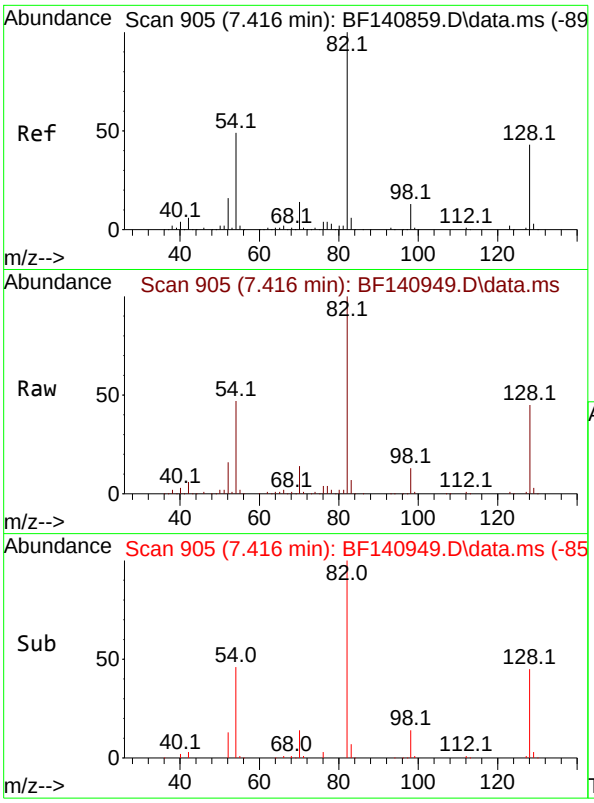


#22
Acetophenone
Concen: 54.917 ng
RT: 7.263 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:105 Resp: 241328

Ion	Ratio	Lower	Upper
105	100		
71	7.6	6.2	9.4
51	26.8	26.3	39.5
120	21.4	17.1	25.7



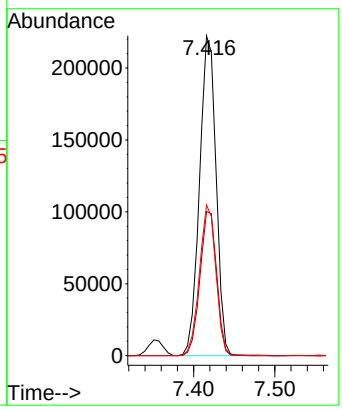


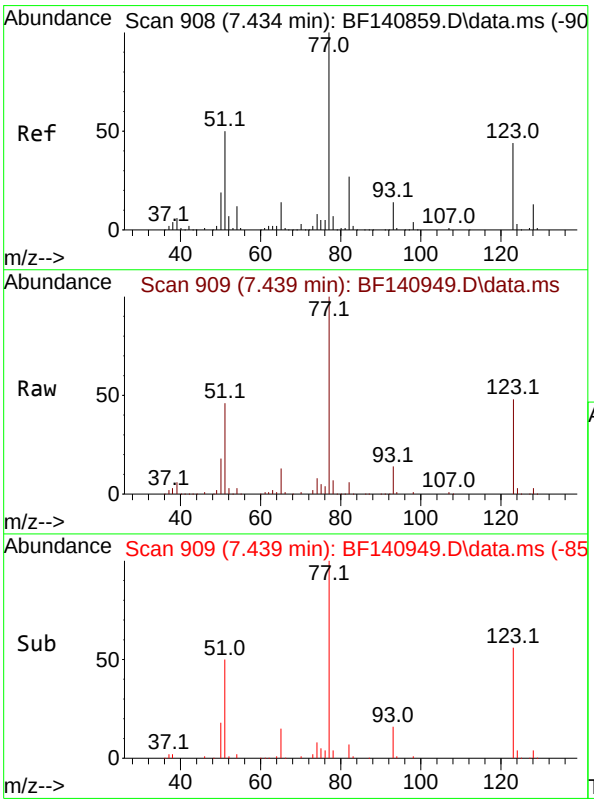
#23
Nitrobenzene-d5
Concen: 89.714 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 82 Resp: 315005

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.4	51.6
54	47.1	38.8	58.2

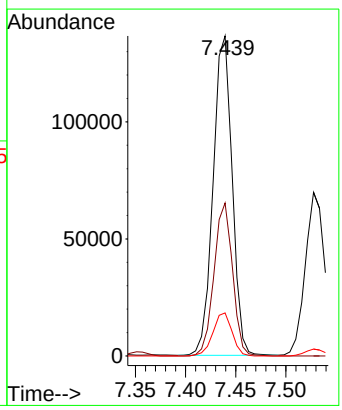


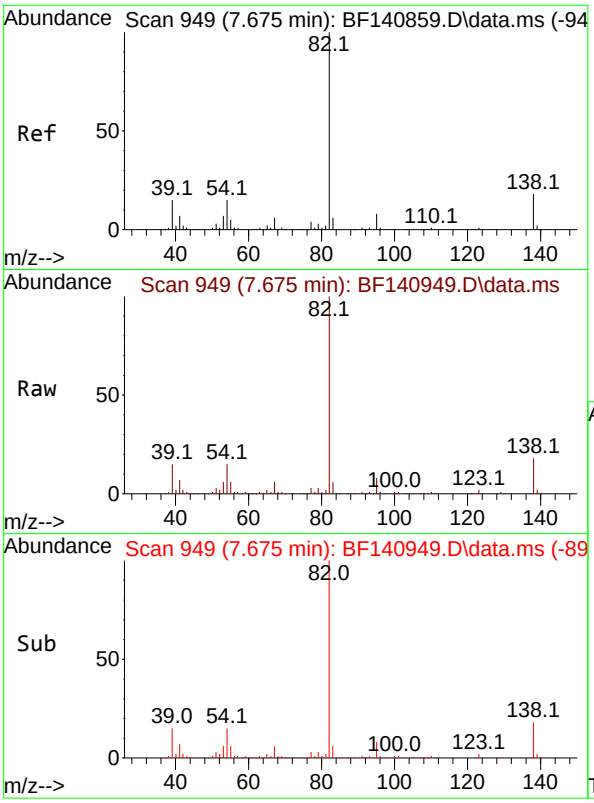


#24
Nitrobenzene
Concen: 50.063 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 77 Resp: 180083

Ion	Ratio	Lower	Upper
77	100		
123	47.8	35.0	52.4
65	13.4	11.4	17.0



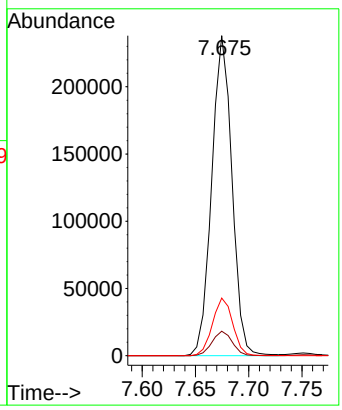


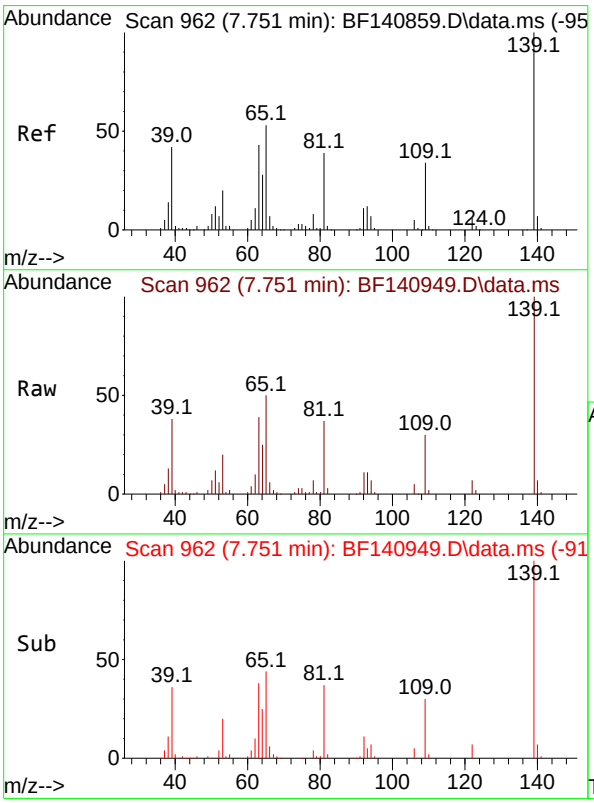
#25
Isophorone
Concen: 53.439 ng
RT: 7.675 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 82 Resp: 314395

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.3	9.5
138	18.0	14.1	21.1

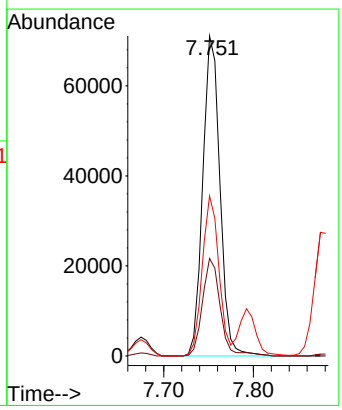


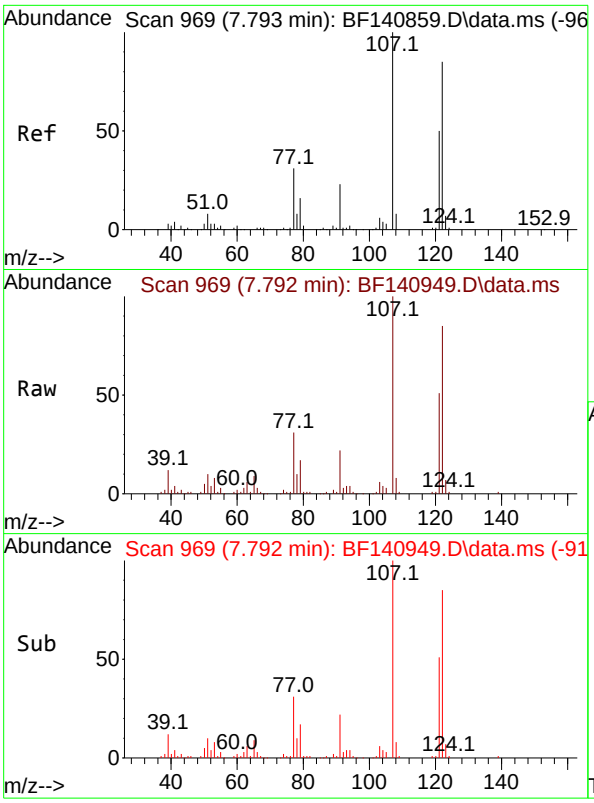


#26
2-Nitrophenol
Concen: 57.032 ng
RT: 7.751 min Scan# 962
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:139 Resp: 94485

Ion	Ratio	Lower	Upper
139	100		
109	30.5	26.9	40.3
65	50.0	42.6	64.0



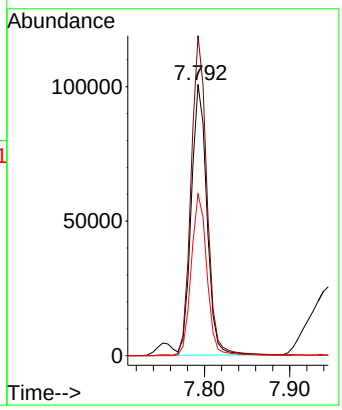


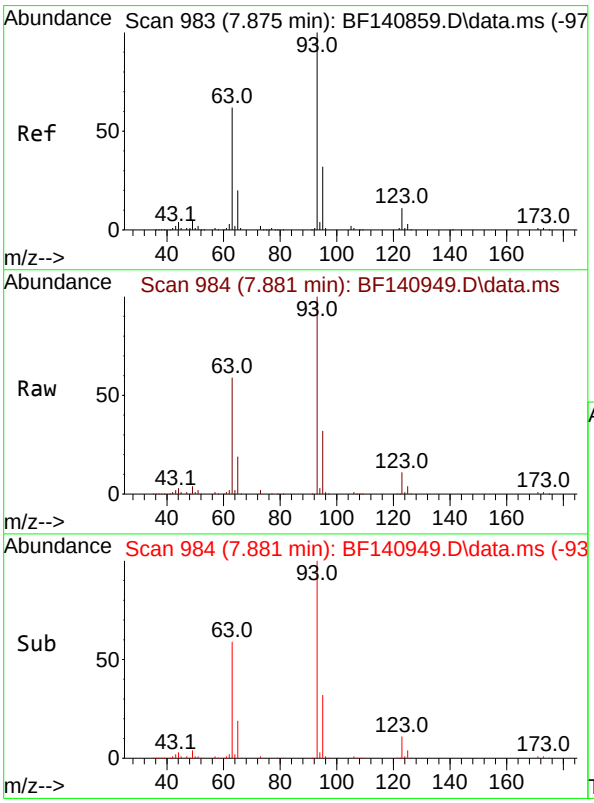
#27
2,4-Dimethylphenol
Concen: 66.141 ng
RT: 7.792 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:122 Resp: 127969

Ion	Ratio	Lower	Upper
122	100		
107	118.0	92.6	139.0
121	59.6	45.8	68.8

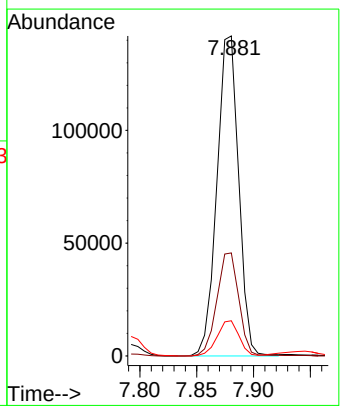


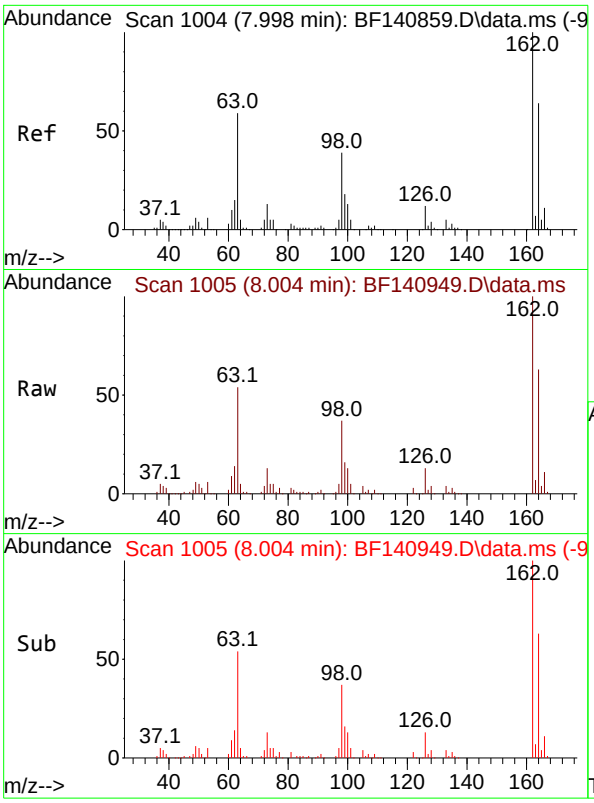


#28
bis(2-Chloroethoxy)methane
Concen: 51.420 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 93 Resp: 188944

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.3	37.9
123	11.0	8.6	13.0



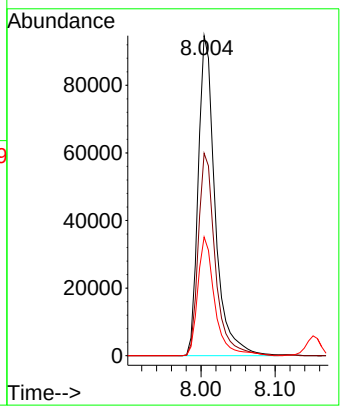


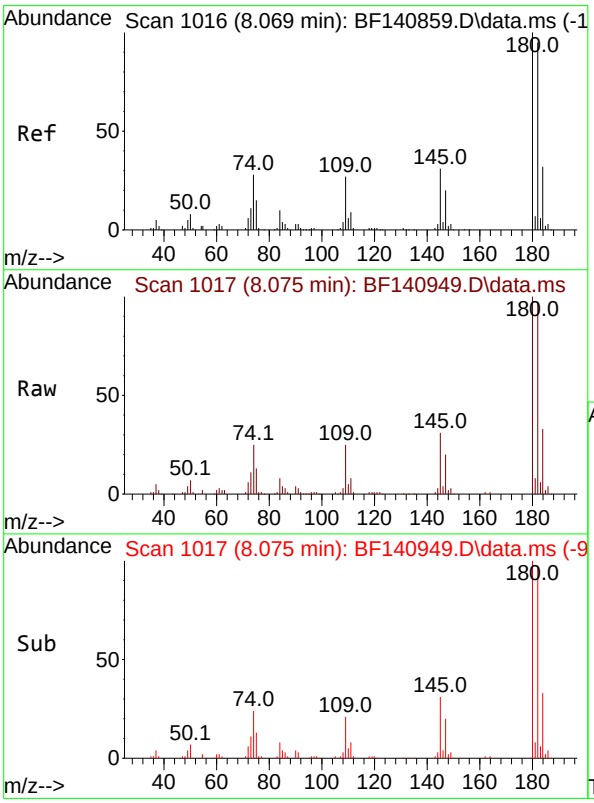
#29
2,4-Dichlorophenol
Concen: 55.934 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:162 Resp: 149408

Ion	Ratio	Lower	Upper
162	100		
164	63.3	43.7	83.7
98	37.1	18.6	58.6

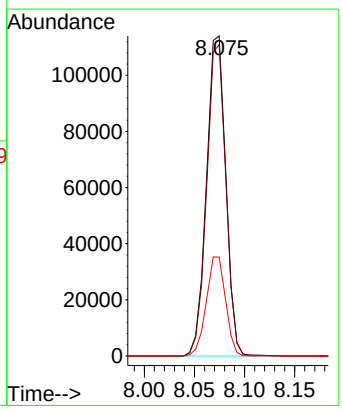


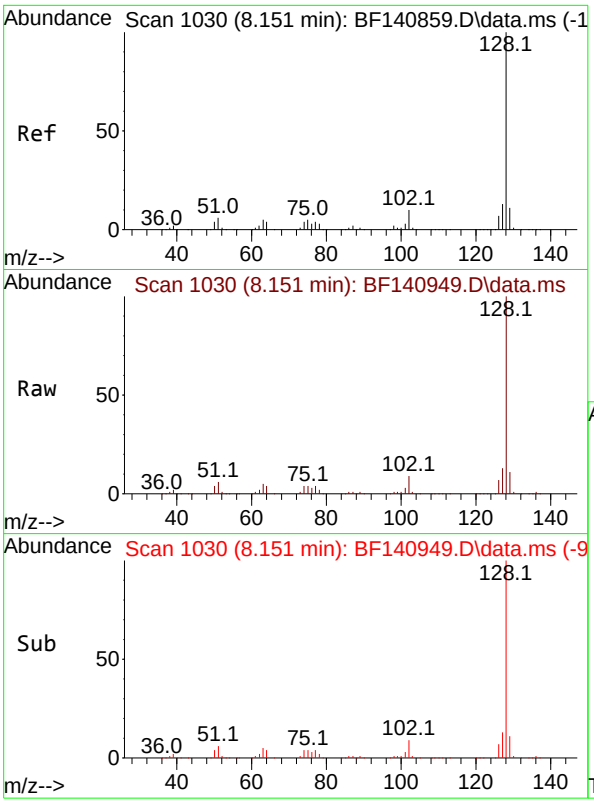


#30
1,2,4-Trichlorobenzene
Concen: 50.051 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:180 Resp: 153263

Ion	Ratio	Lower	Upper
180	100		
182	97.3	75.8	113.6
145	30.9	25.2	37.8



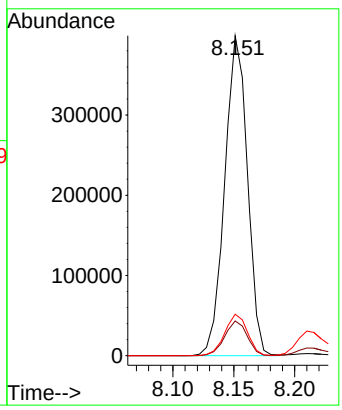


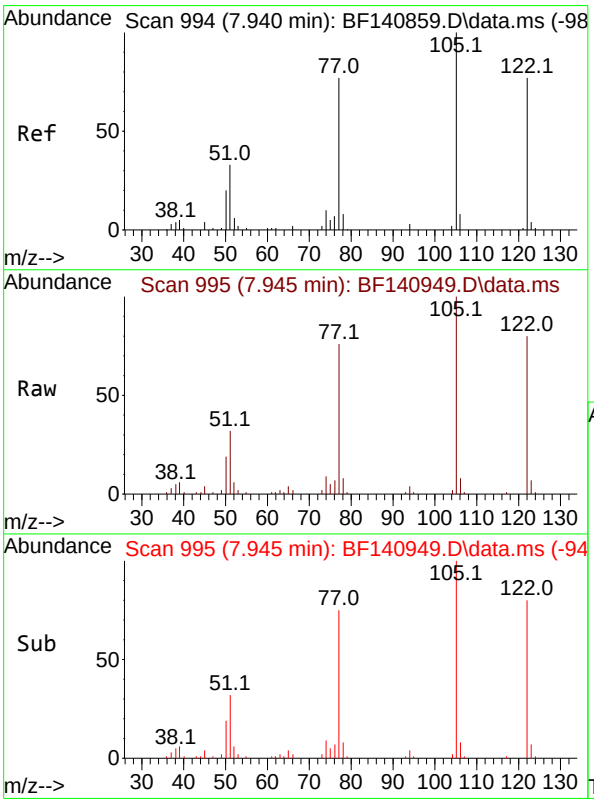
#31
Naphthalene
Concen: 53.602 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:128 Resp: 517245

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	13.0	10.6	16.0

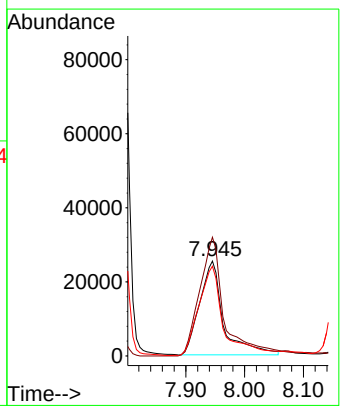


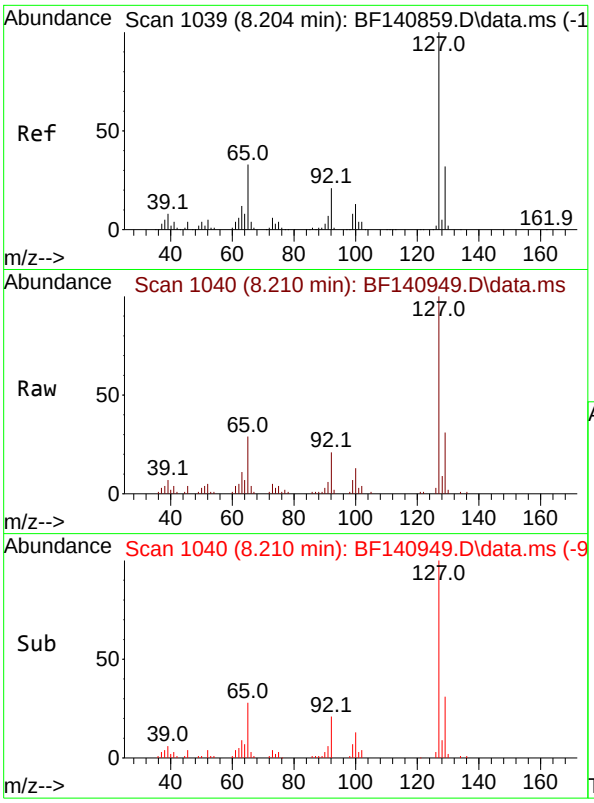


#32
Benzoic acid
Concen: 39.151 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.005 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:122 Resp: 71840

Ion	Ratio	Lower	Upper
122	100		
105	125.1	108.3	148.3
77	94.6	78.8	118.8



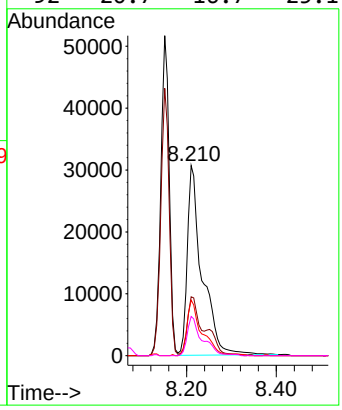


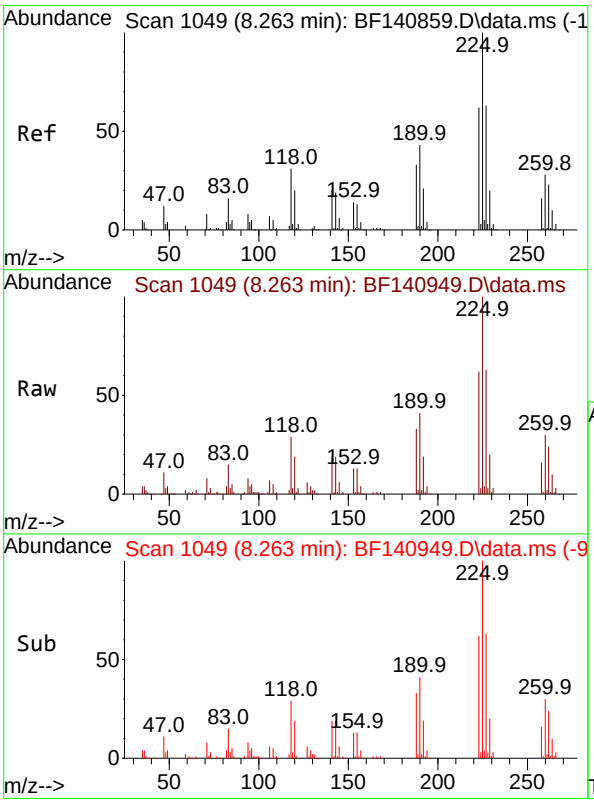
#33
4-Chloroaniline
Concen: 22.062 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:127 Resp: 70709

Ion	Ratio	Lower	Upper
127	100		
129	31.0	26.0	39.0
65	29.2	26.0	39.0
92	20.7	16.7	25.1

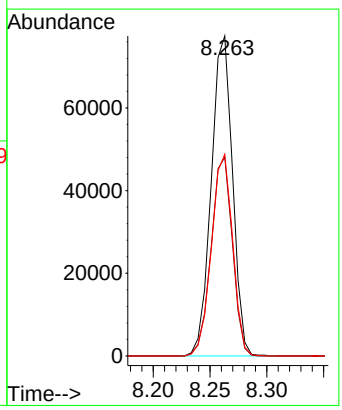


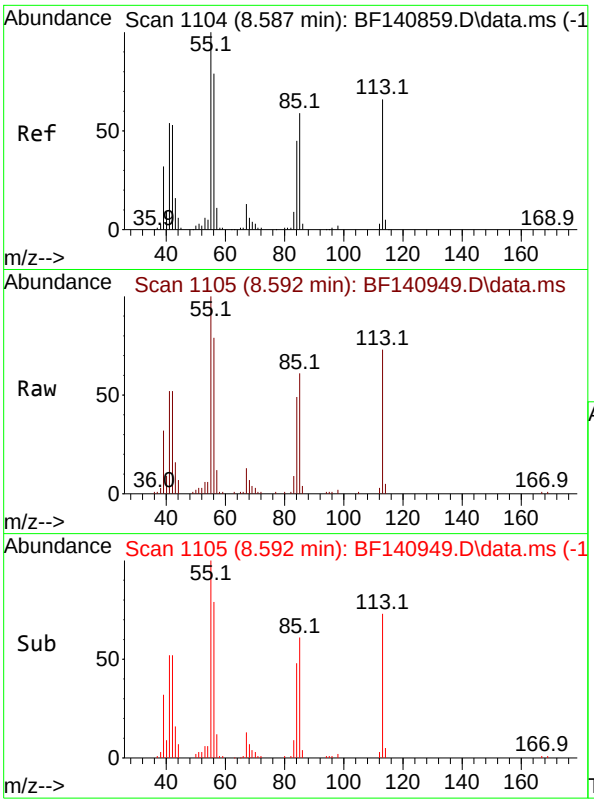


#34
Hexachlorobutadiene
Concen: 48.916 ng
RT: 8.263 min Scan# 1049
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:225 Resp: 100776

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.6	74.4
227	63.0	50.7	76.1



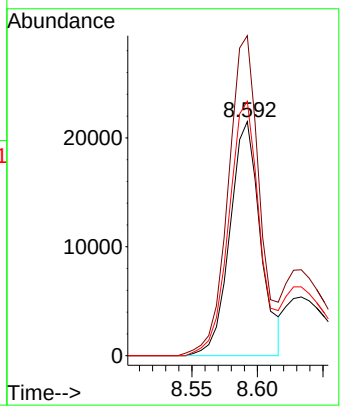


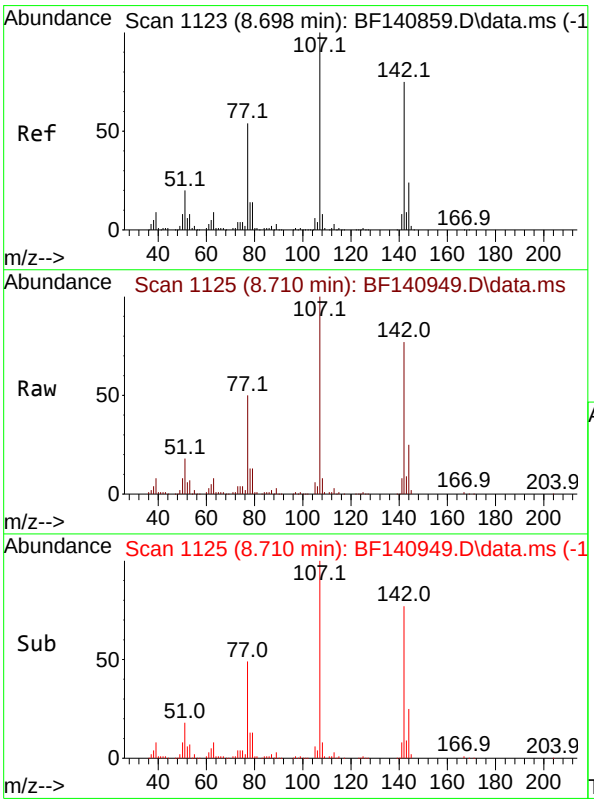
#35
Caprolactam
Concen: 43.555 ng
RT: 8.592 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:113 Resp: 34636

Ion	Ratio	Lower	Upper
113	100		
55	136.7	132.3	172.3
56	108.7	100.3	140.3

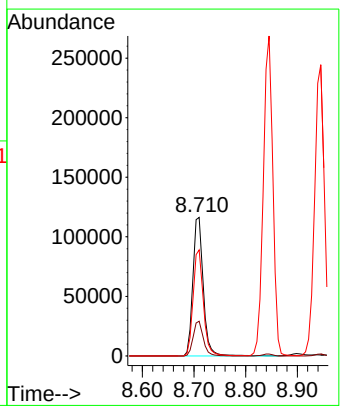


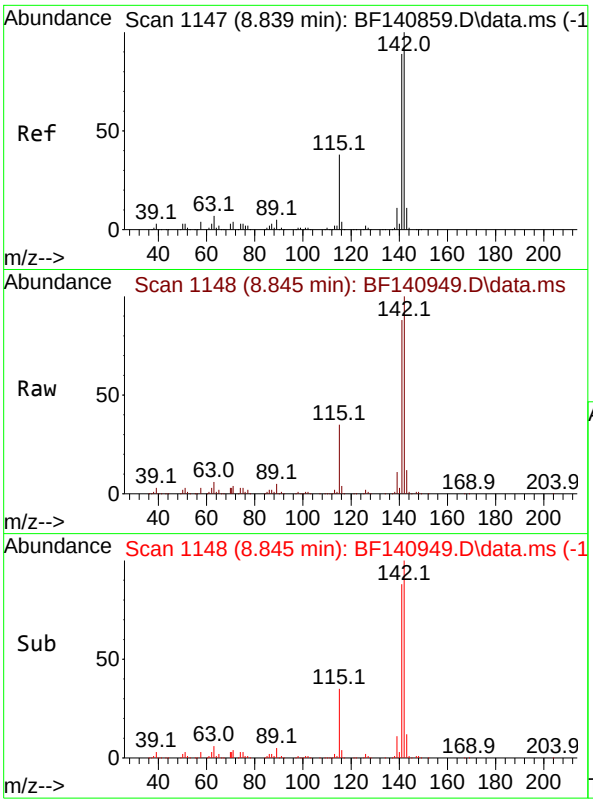


#36
4-Chloro-3-methylphenol
Concen: 54.366 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:107 Resp: 163449

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.4	29.2
142	76.5	60.3	90.5



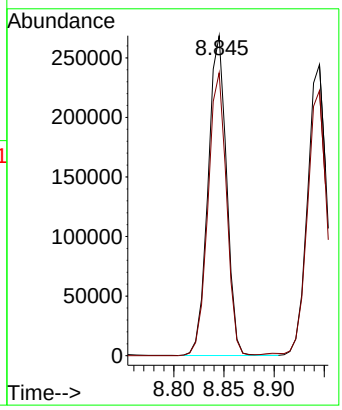


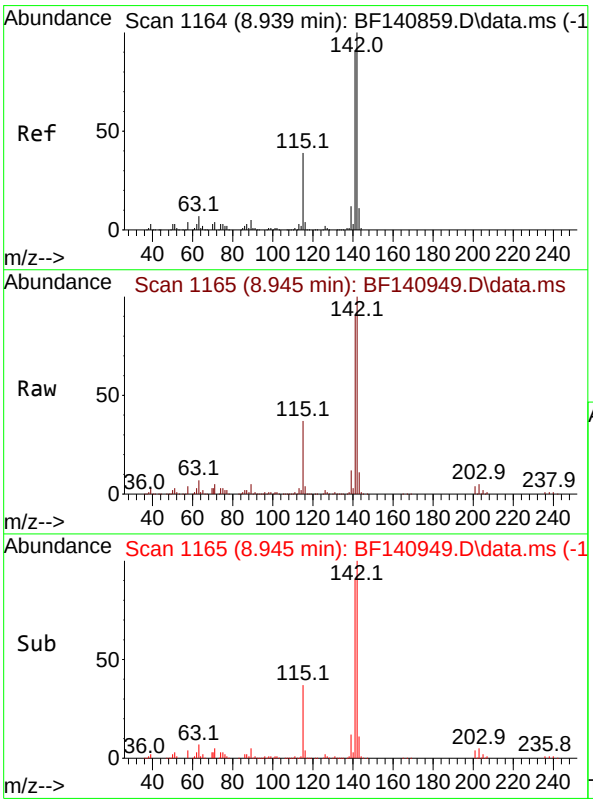
#37
2-Methylnaphthalene
Concen: 53.795 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:142 Resp: 343391

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.0	106.6

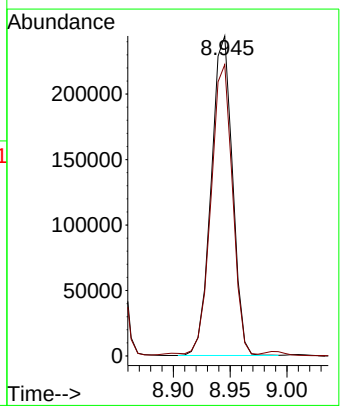


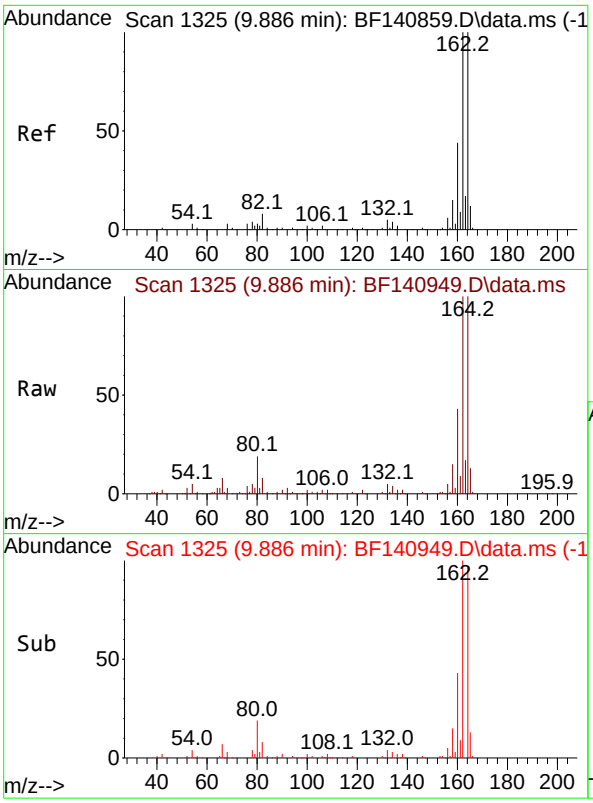


#38
1-Methylnaphthalene
Concen: 50.458 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:142 Resp: 318541

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.4	110.0



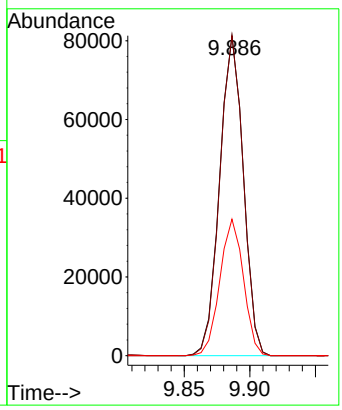


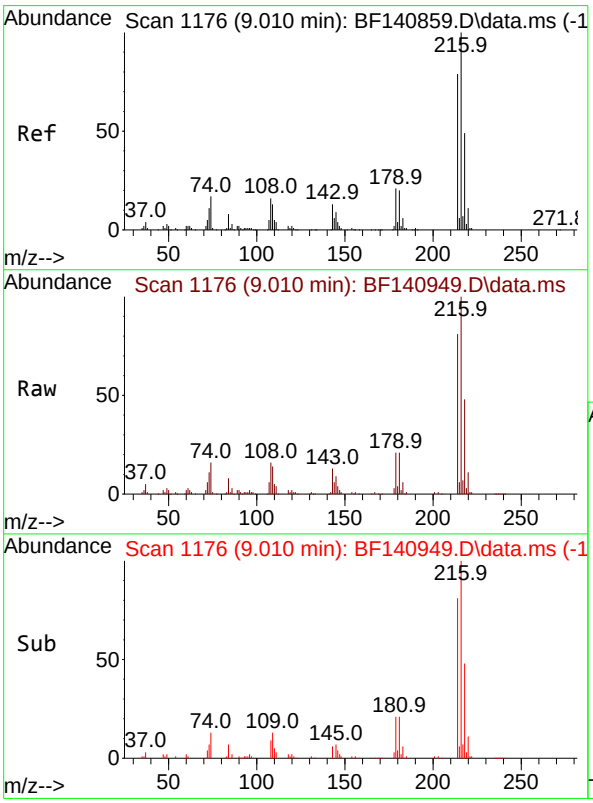
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:164 Resp: 102157

Ion	Ratio	Lower	Upper
164	100		
162	100.0	79.9	119.9
160	42.7	35.2	52.8

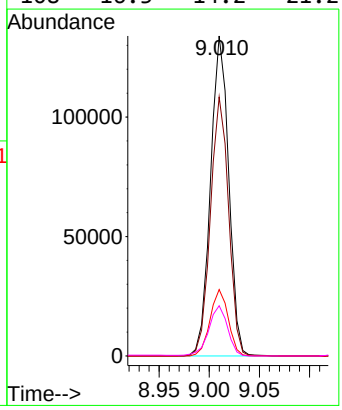


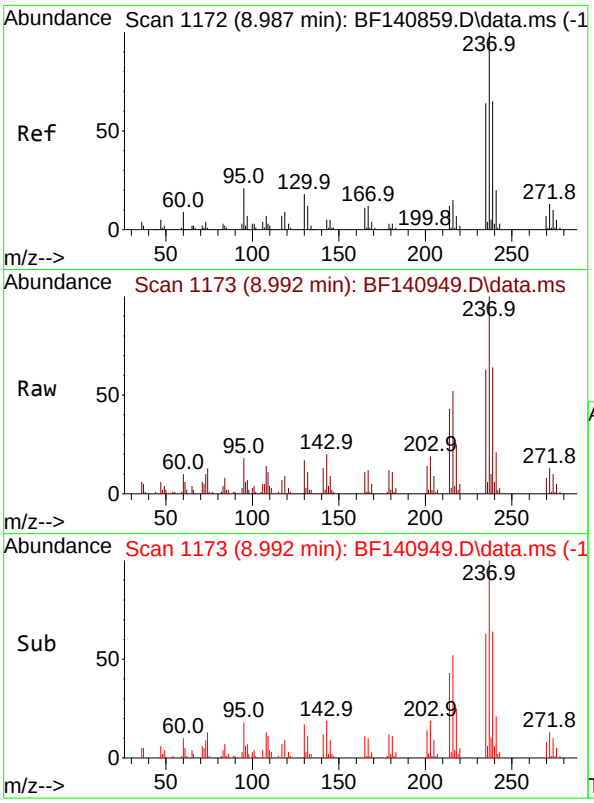


#40
1,2,4,5-Tetrachlorobenzene
Concen: 53.866 ng
RT: 9.010 min Scan# 1176
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:216 Resp: 169136

Ion	Ratio	Lower	Upper
216	100		
214	80.7	63.6	95.4
179	20.7	17.0	25.4
108	16.3	14.2	21.2



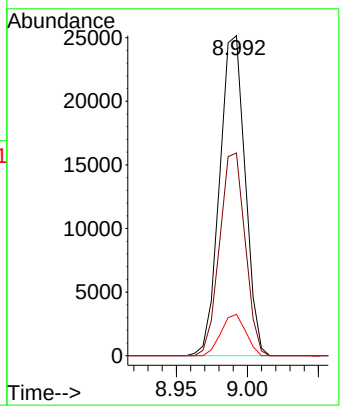


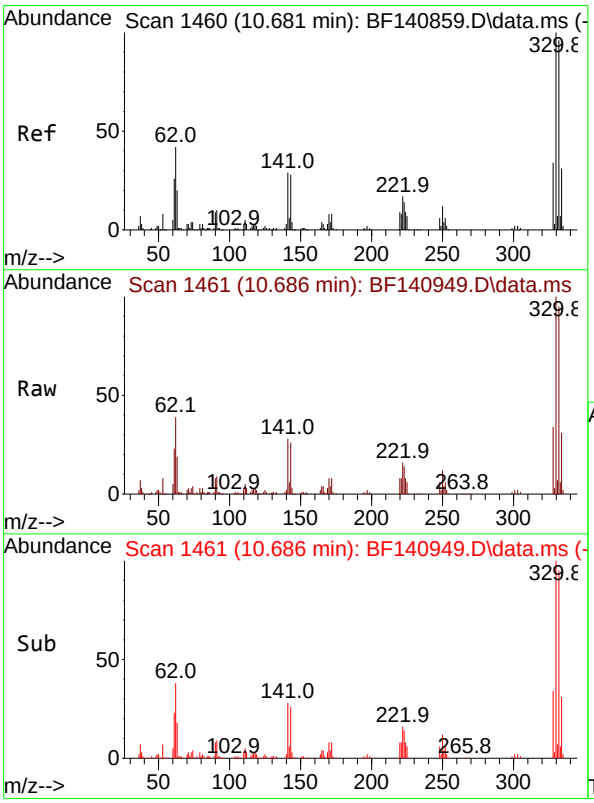
#41
Hexachlorocyclopentadiene
Concen: 41.662 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.005 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:237 Resp: 31402

Ion	Ratio	Lower	Upper
237	100		
235	63.4	43.7	83.7
272	12.9	0.0	32.9

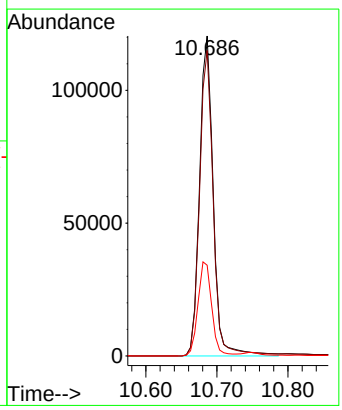


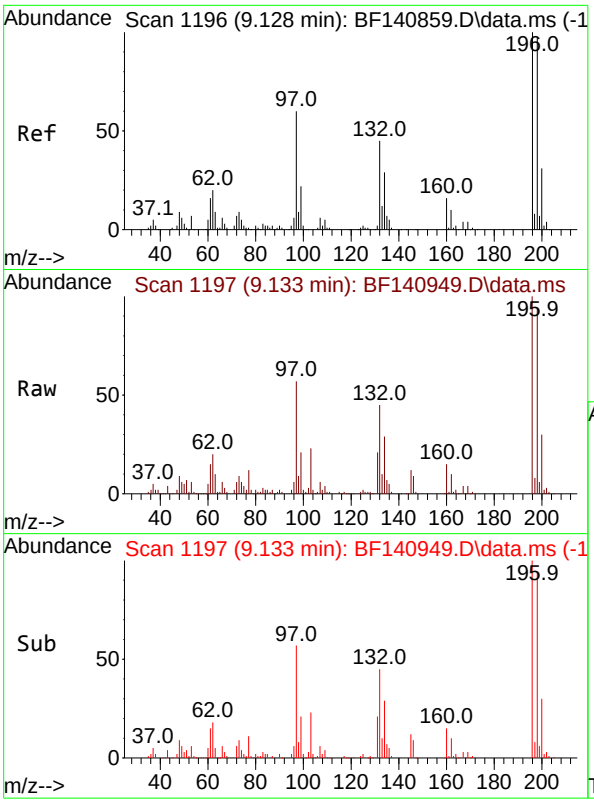


#42
2,4,6-Tribromophenol
Concen: 134.298 ng
RT: 10.686 min Scan# 1461
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:330 Resp: 162262

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.2	114.4
141	29.6	24.9	37.3



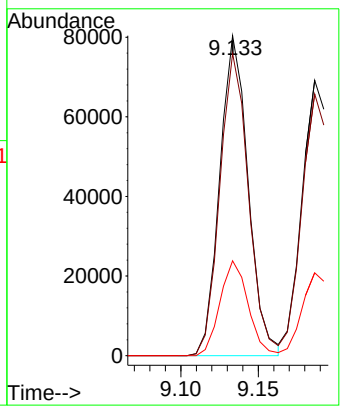


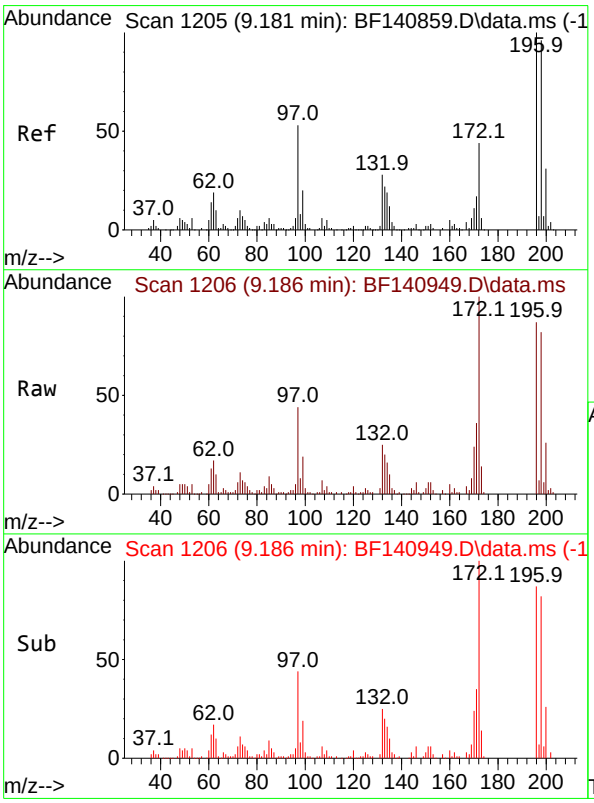
#43
2,4,6-Trichlorophenol
Concen: 53.386 ng
RT: 9.133 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:196 Resp: 102644

Ion	Ratio	Lower	Upper
196	100		
198	94.4	77.4	116.0
200	29.6	24.5	36.7

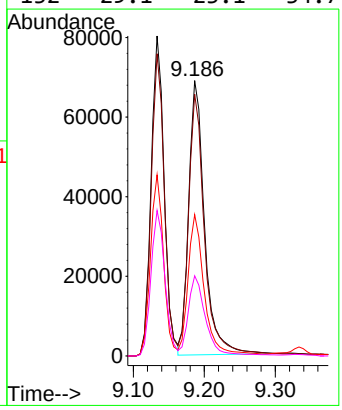


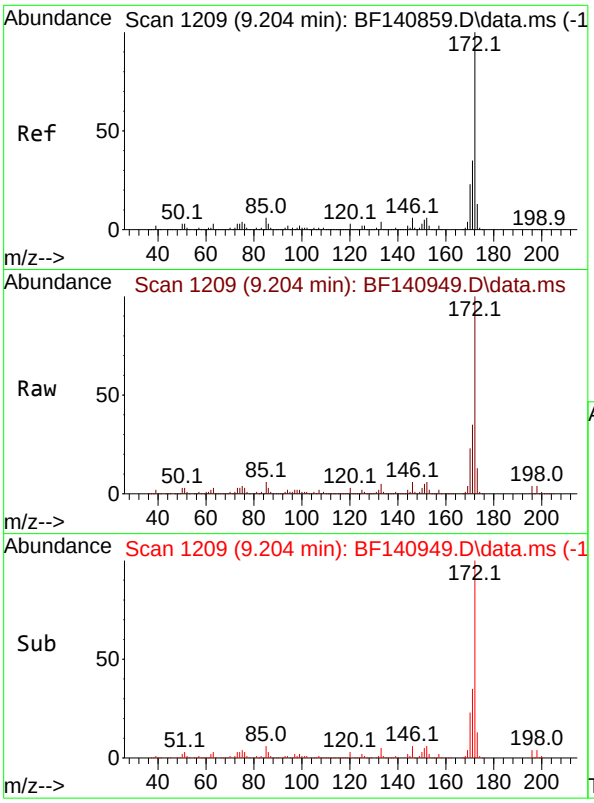


#44
2,4,5-Trichlorophenol
Concen: 50.828 ng
RT: 9.186 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:196 Resp: 107412

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.2	115.8
97	51.3	42.2	63.4
132	29.1	23.1	34.7



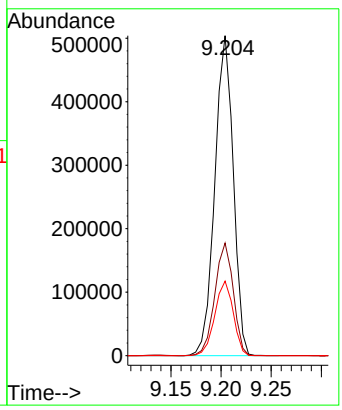


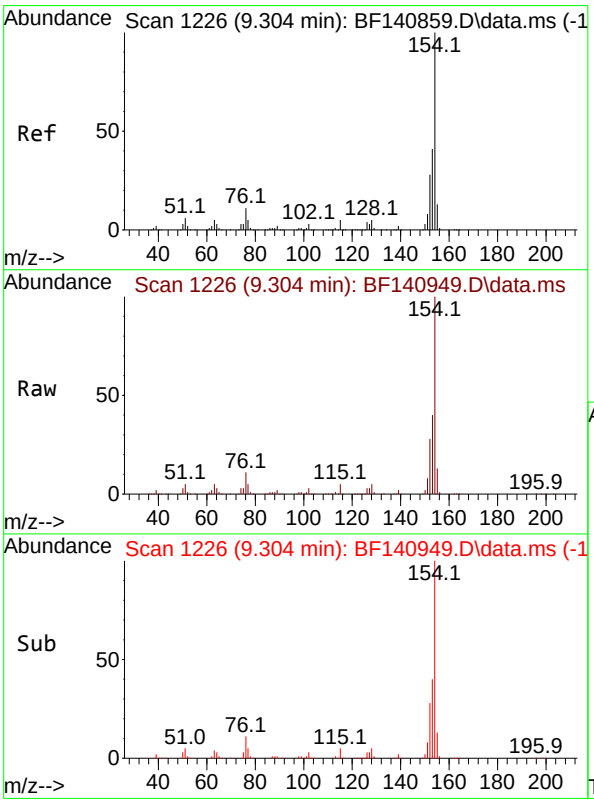
#45
2-Fluorobiphenyl
Concen: 86.762 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:172 Resp: 644674

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.3	18.6	28.0

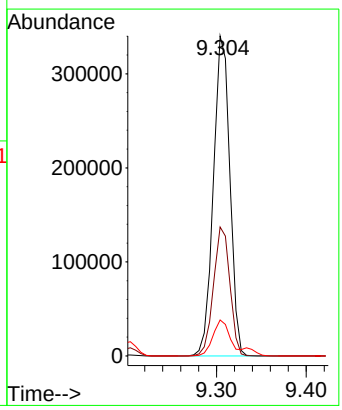


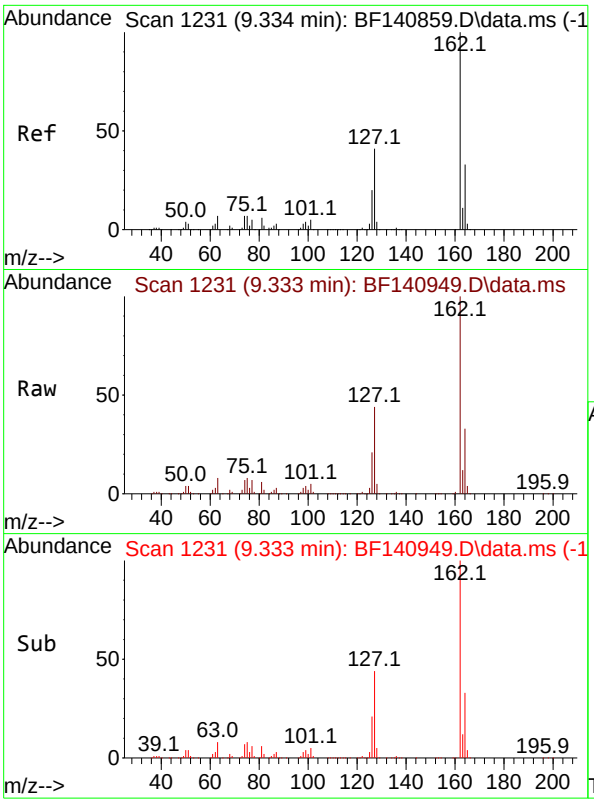


#46
1,1'-Biphenyl
Concen: 53.374 ng
RT: 9.304 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:154 Resp: 433578

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.8	60.8
76	11.3	0.0	31.0



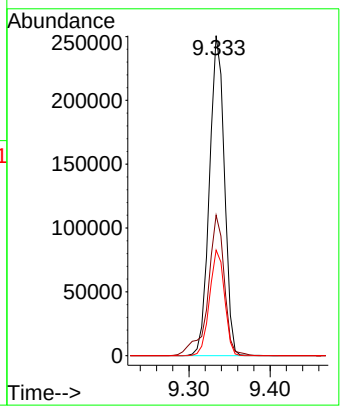


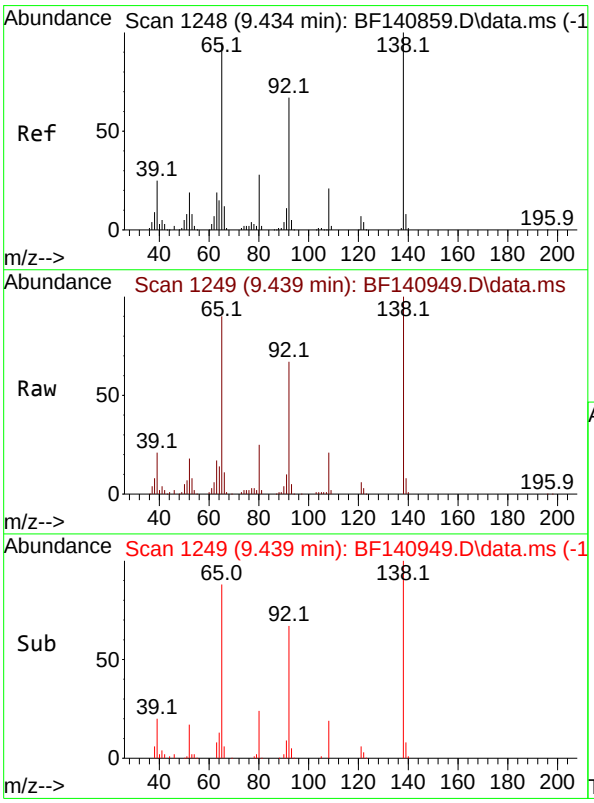
#47
2-Chloronaphthalene
Concen: 51.486 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:162 Resp: 319959

Ion	Ratio	Lower	Upper
162	100		
127	43.9	33.5	50.3
164	33.0	26.2	39.2

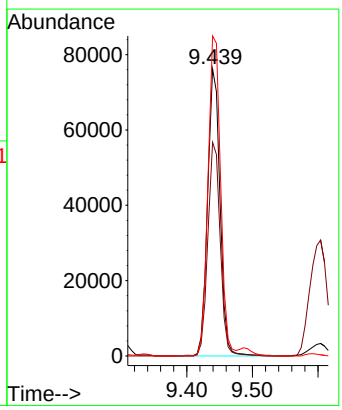


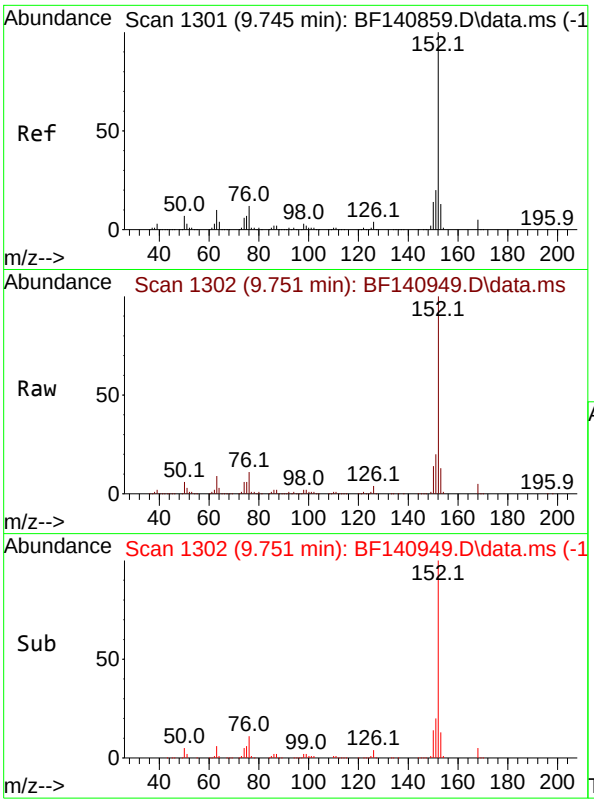


#48
2-Nitroaniline
Concen: 53.688 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion: 65 Resp: 100764

Ion	Ratio	Lower	Upper
65	100		
92	74.4	56.3	84.5
138	111.5	83.8	125.6



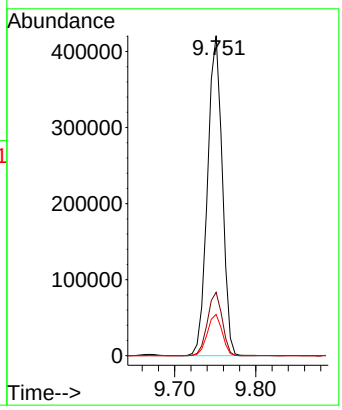


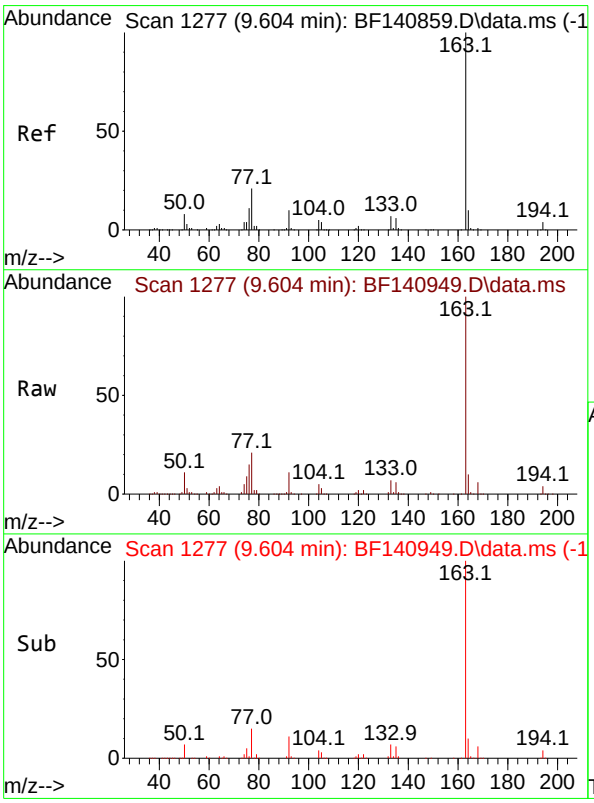
#49
Acenaphthylene
Concen: 57.943 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:152 Resp: 529169

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.0	24.0
153	12.9	10.6	16.0

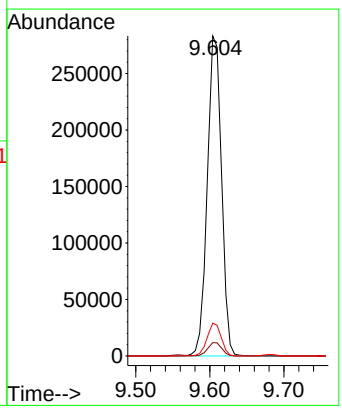


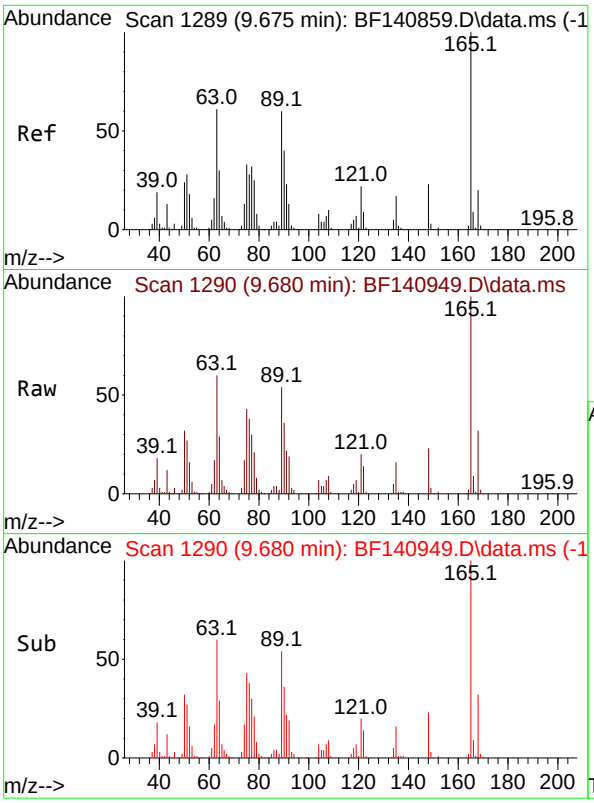


#50
Dimethylphthalate
Concen: 52.492 ng
RT: 9.604 min Scan# 1277
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:163 Resp: 378063

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.1	4.7
164	10.2	8.1	12.1



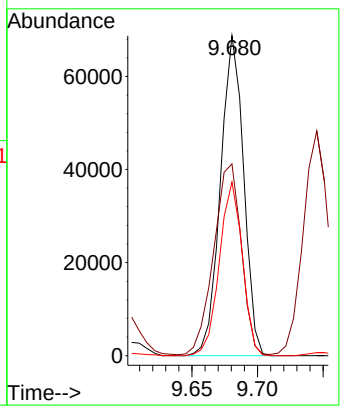


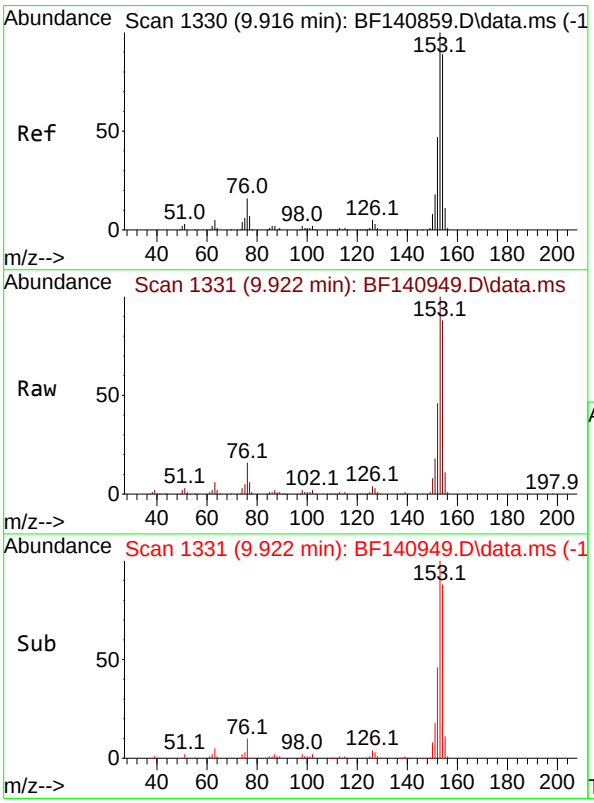
#51
2,6-Dinitrotoluene
Concen: 51.261 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:165 Resp: 84402

Ion	Ratio	Lower	Upper
165	100		
63	59.9	49.7	74.5
89	54.2	48.2	72.4

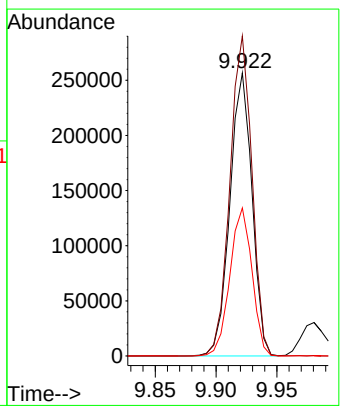


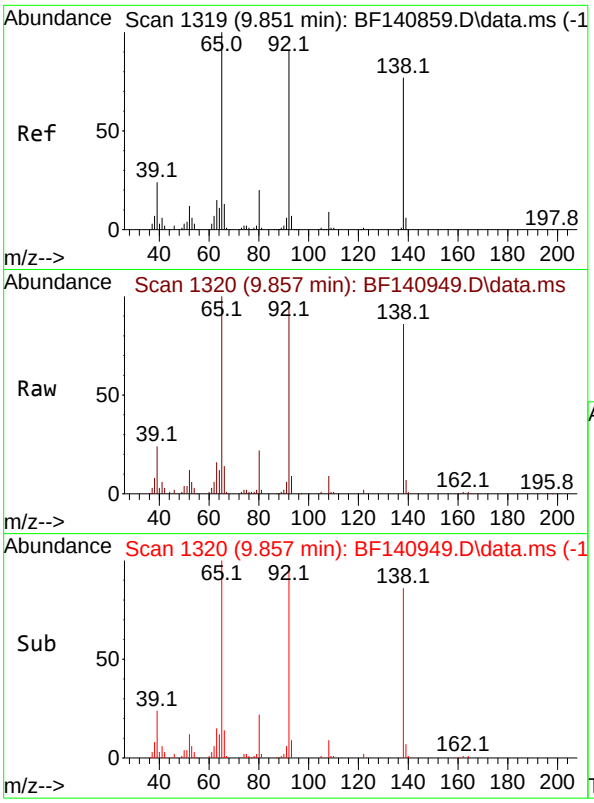


#52
Acenaphthene
Concen: 55.638 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:154 Resp: 324577

Ion	Ratio	Lower	Upper
154	100		
153	113.1	89.9	134.9
152	52.3	42.6	63.8



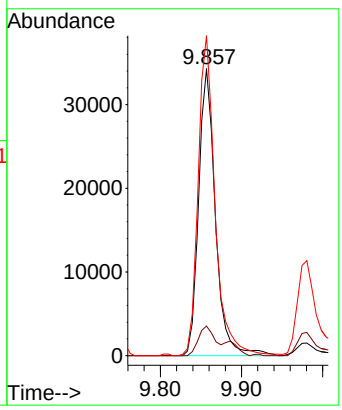


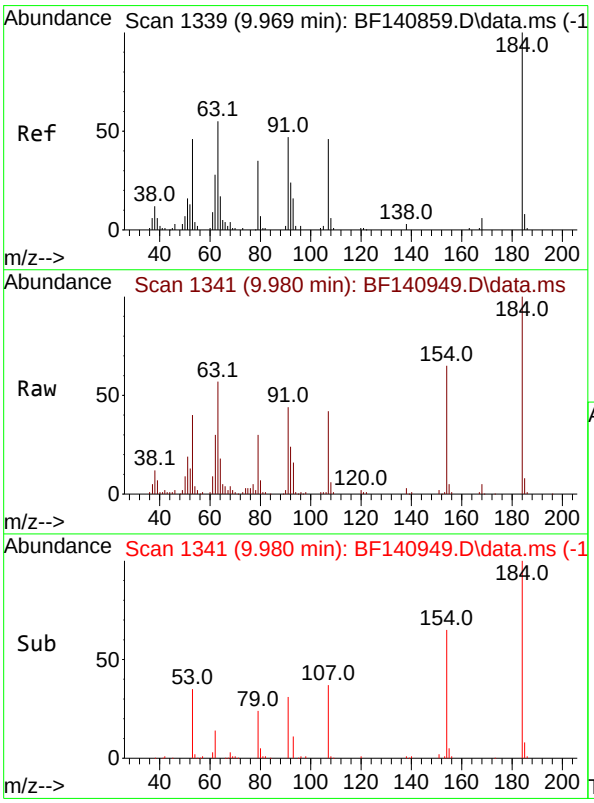
#53
3-Nitroaniline
Concen: 30.137 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:138 Resp: 49243

Ion	Ratio	Lower	Upper
138	100		
108	10.3	9.0	13.4
92	111.5	95.5	143.3

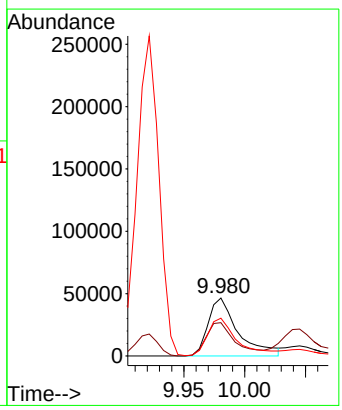


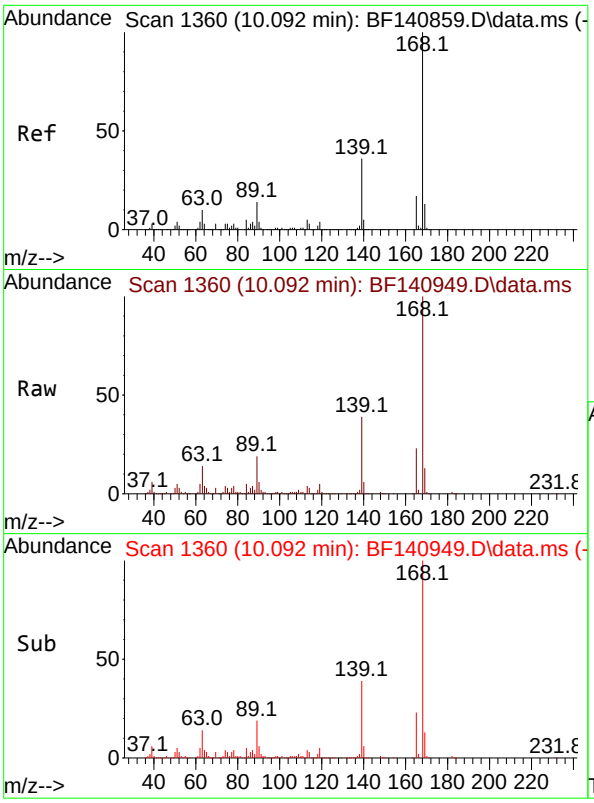


#54
2,4-Dinitrophenol
Concen: 97.834 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.011 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:184 Resp: 79873

Ion	Ratio	Lower	Upper
184	100		
63	57.4	51.6	77.4
154	65.2	56.1	84.1



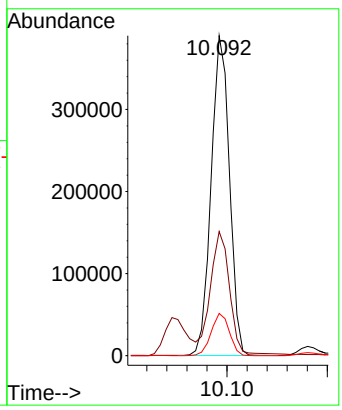


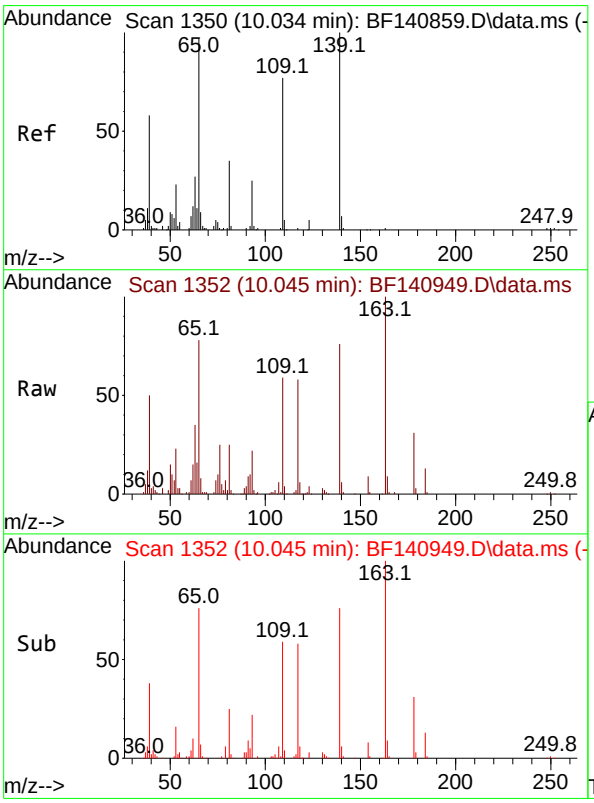
#55
Dibenzofuran
Concen: 54.567 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:168 Resp: 493268

Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.1	46.7
169	13.2	10.6	16.0

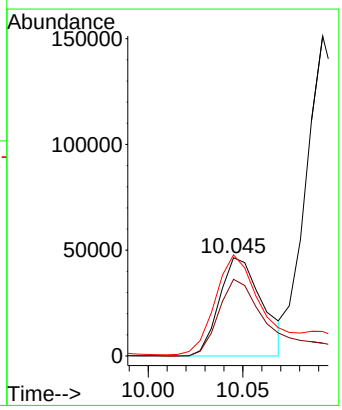


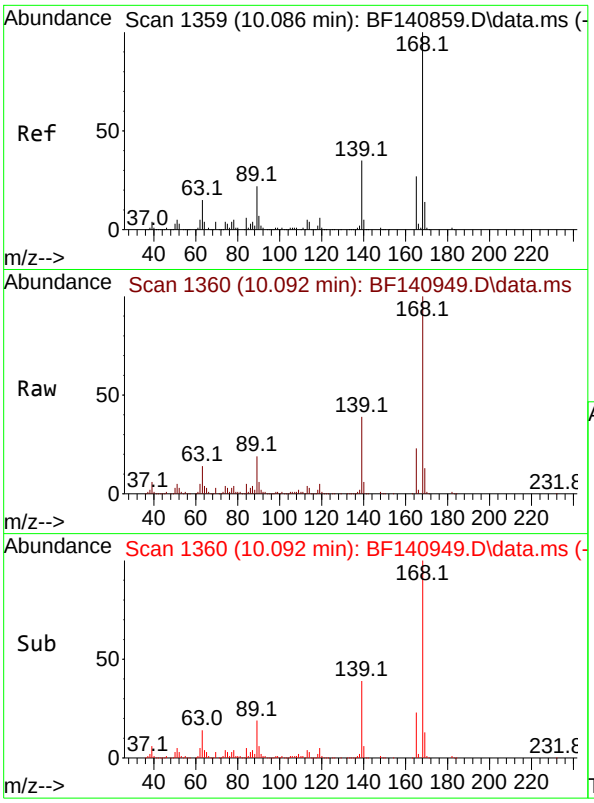


#56
4-Nitrophenol
Concen: 82.863 ng
RT: 10.045 min Scan# 1352
Delta R.T. 0.011 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:139 Resp: 72978

Ion	Ratio	Lower	Upper
139	100		
109	77.9	56.7	96.7
65	102.9	78.1	118.1



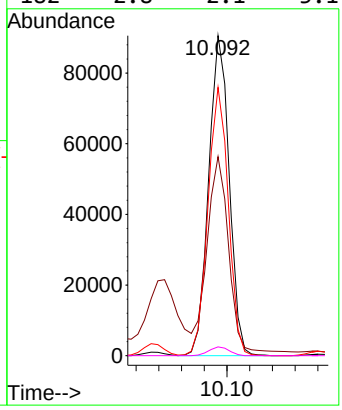


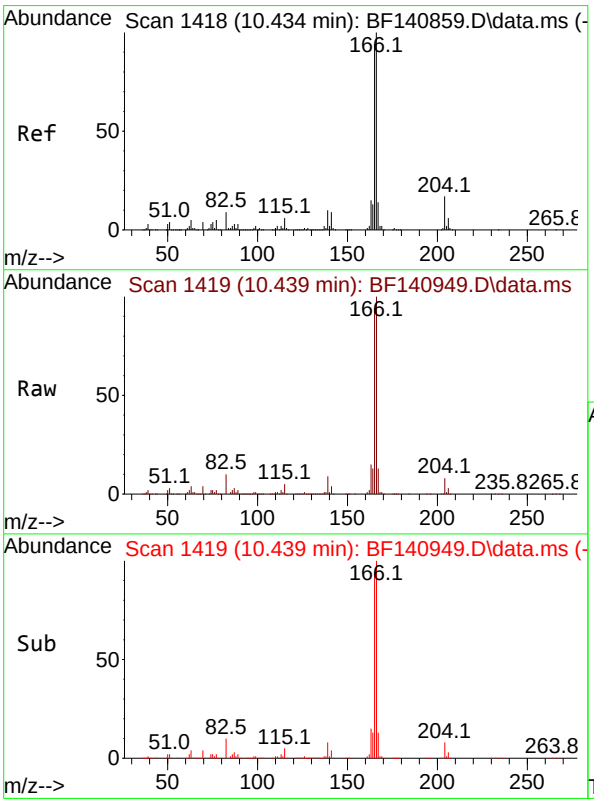
#57
2,4-Dinitrotoluene
Concen: 52.453 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:165 Resp: 113633

Ion	Ratio	Lower	Upper
165	100		
63	62.2	49.3	73.9
89	83.8	66.2	99.4
182	2.8	2.1	3.1

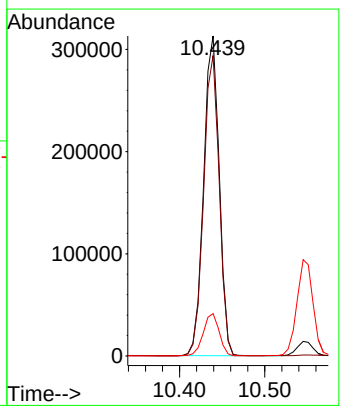


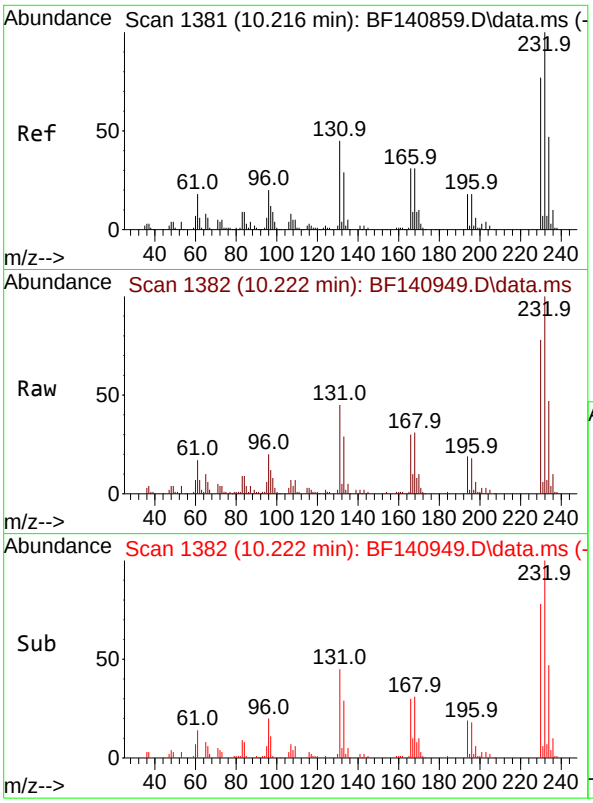


#58
Fluorene
Concen: 53.279 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:166 Resp: 397342

Ion	Ratio	Lower	Upper
166	100		
165	93.8	75.1	112.7
167	13.3	11.1	16.7



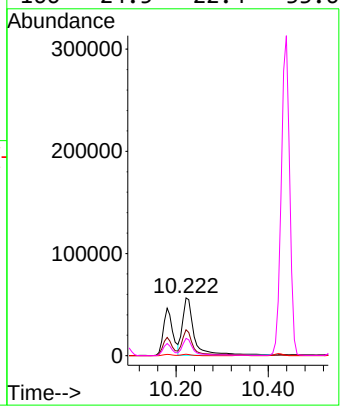


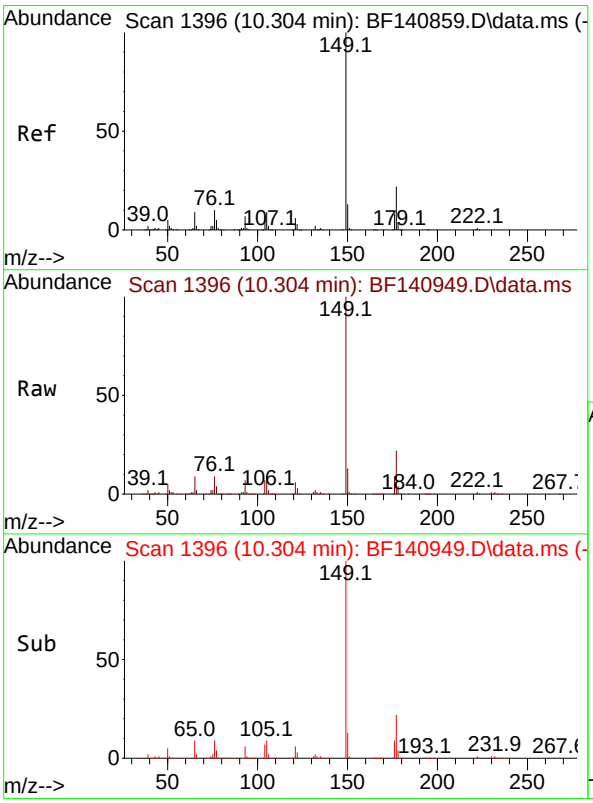
#59
2,3,4,6-Tetrachlorophenol
Concen: 56.336 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:232 Resp: 97009

Ion	Ratio	Lower	Upper
232	100		
131	36.7	35.1	52.7
130	2.0	1.8	2.8
166	24.5	22.4	33.6

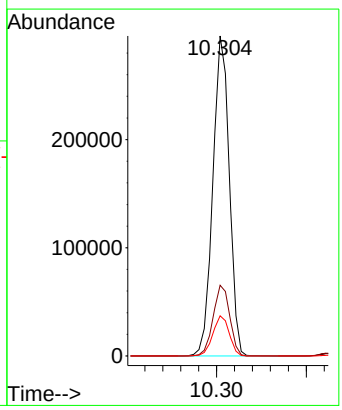


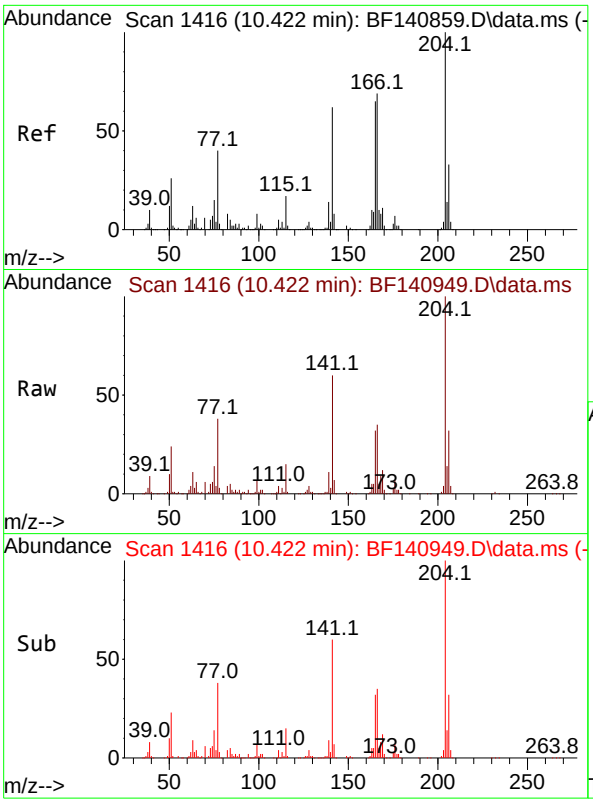


#60
Diethylphthalate
Concen: 50.345 ng
RT: 10.304 min Scan# 1396
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 376001

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.2	25.8
150	12.6	10.1	15.1



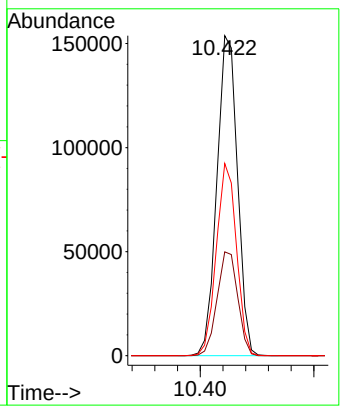


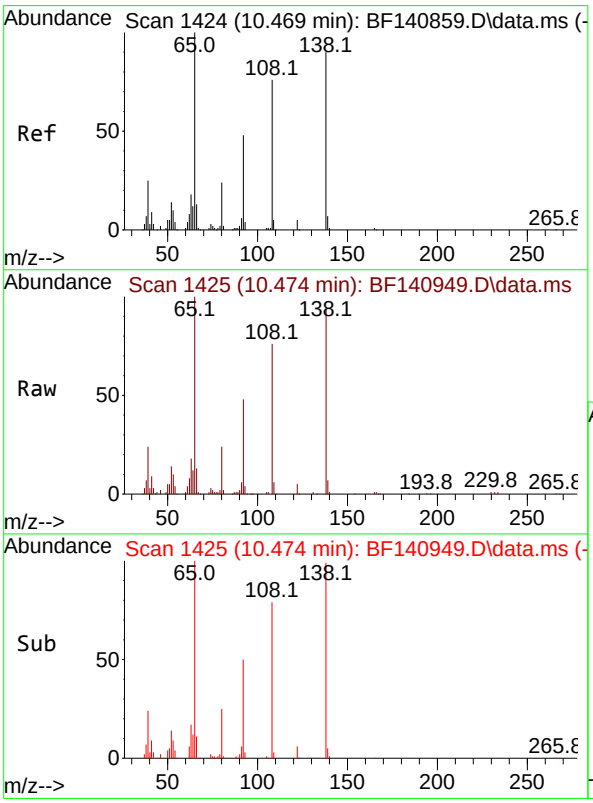
#61
4-Chlorophenyl-phenylether
Concen: 51.761 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:204 Resp: 193903

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.5	39.7
141	60.0	50.0	75.0

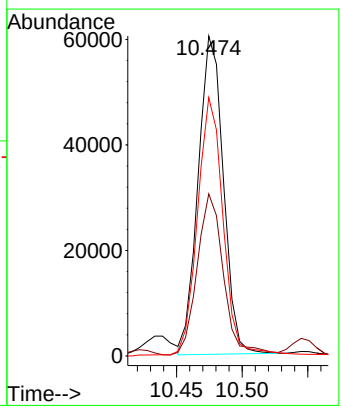


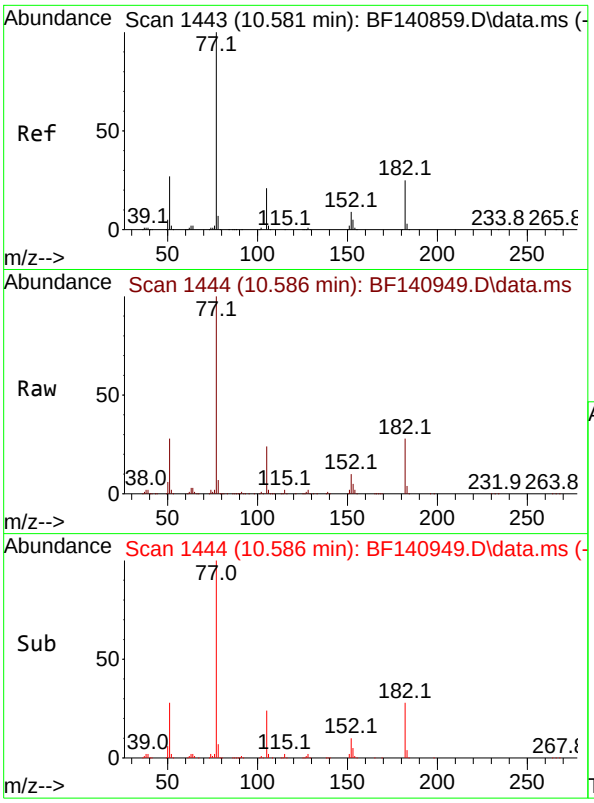


#62
4-Nitroaniline
Concen: 47.236 ng
RT: 10.474 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:138 Resp: 80656

Ion	Ratio	Lower	Upper
138	100		
92	50.7	32.6	72.6
108	80.7	64.1	104.1



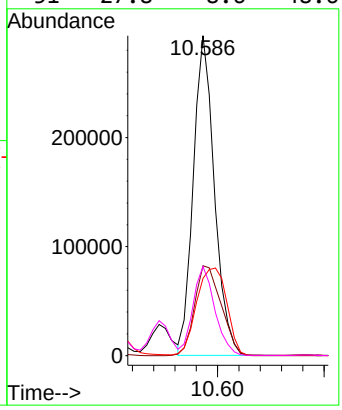


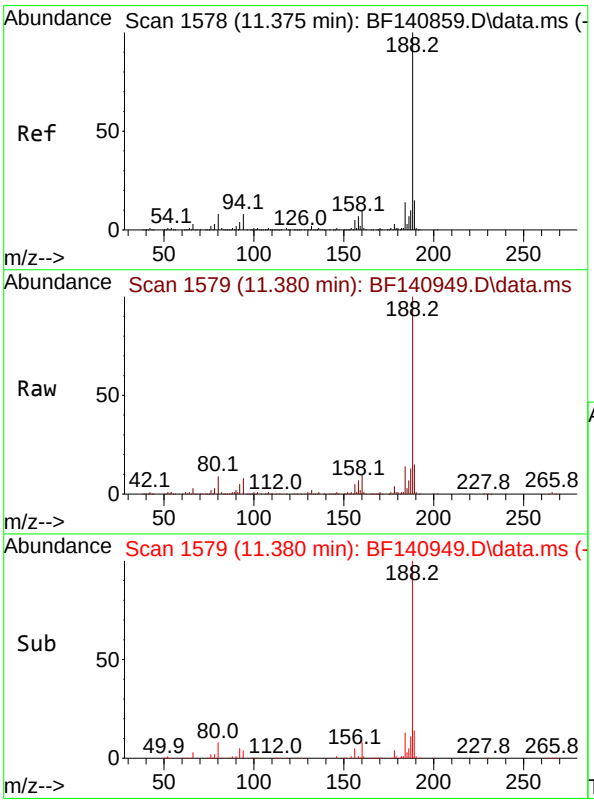
#63
Azobenzene
Concen: 57.590 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion: 77 Resp: 404359

Ion	Ratio	Lower	Upper
77	100		
182	28.1	4.5	44.5
105	24.2	0.9	40.9
51	27.8	8.6	48.6

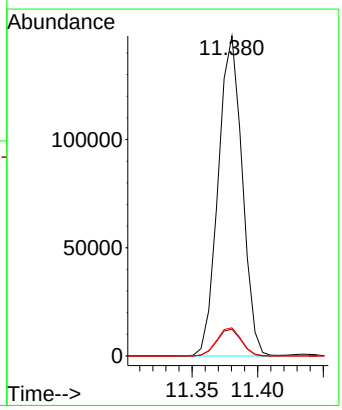


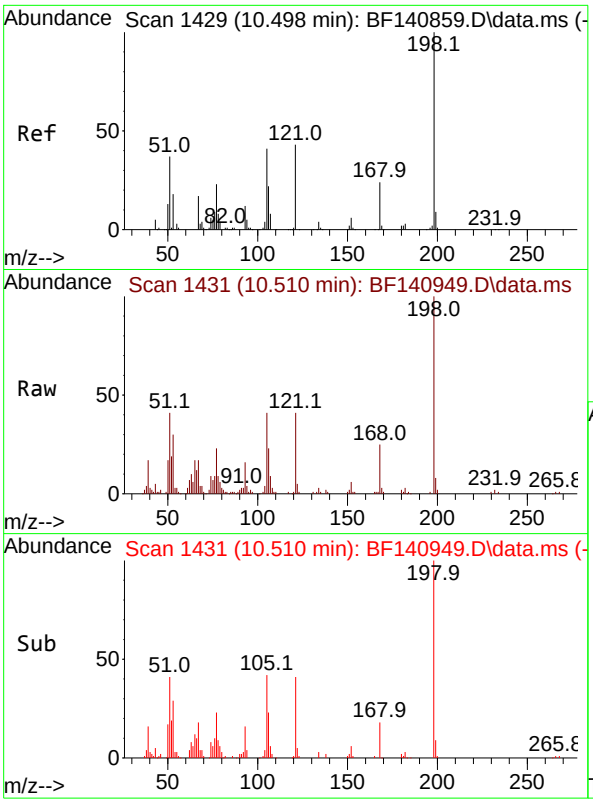


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1579
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:188 Resp: 188148

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.4	9.6
80	8.8	6.8	10.2



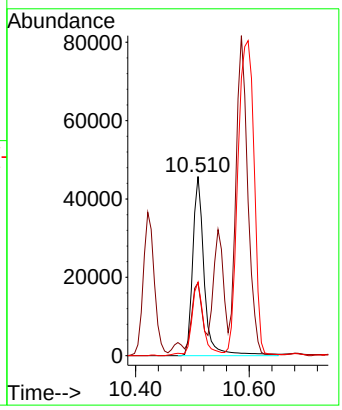


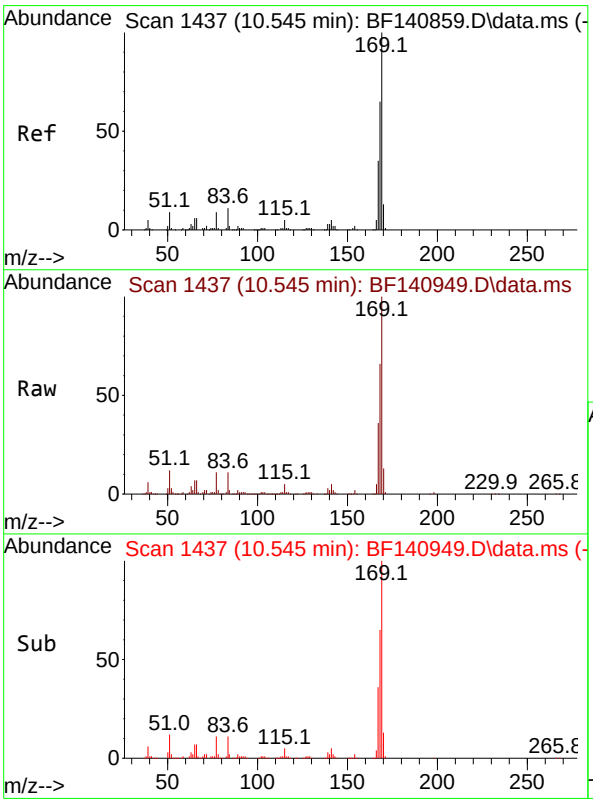
#65
4,6-Dinitro-2-methylphenol
Concen: 60.672 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:198 Resp: 64685

Ion	Ratio	Lower	Upper
198	100		
51	40.7	24.4	64.4
105	41.0	22.1	62.1

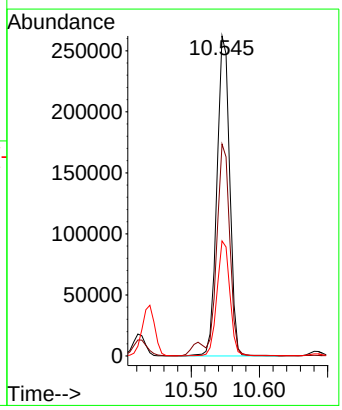


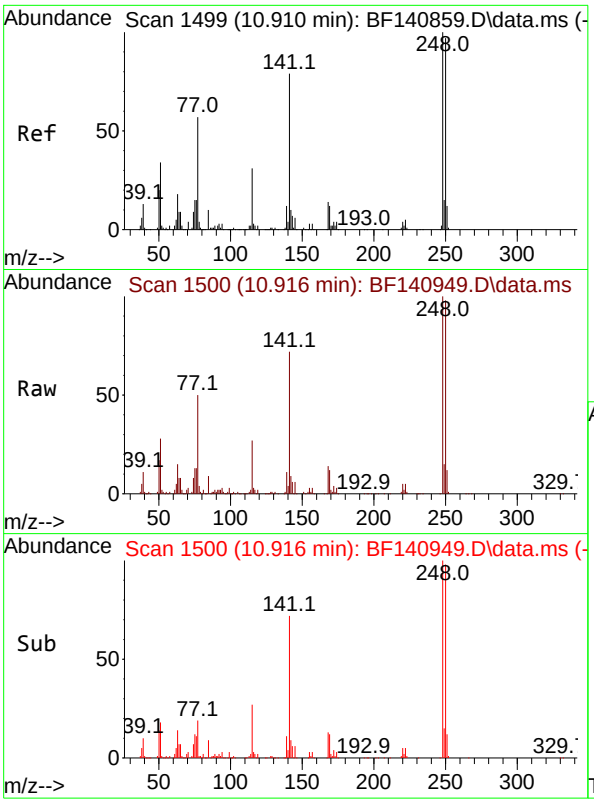


#66
n-Nitrosodiphenylamine
Concen: 58.988 ng
RT: 10.545 min Scan# 1437
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:169 Resp: 341229

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.4	80.0
167	36.0	28.3	42.5



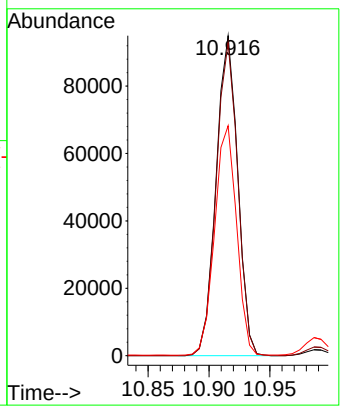


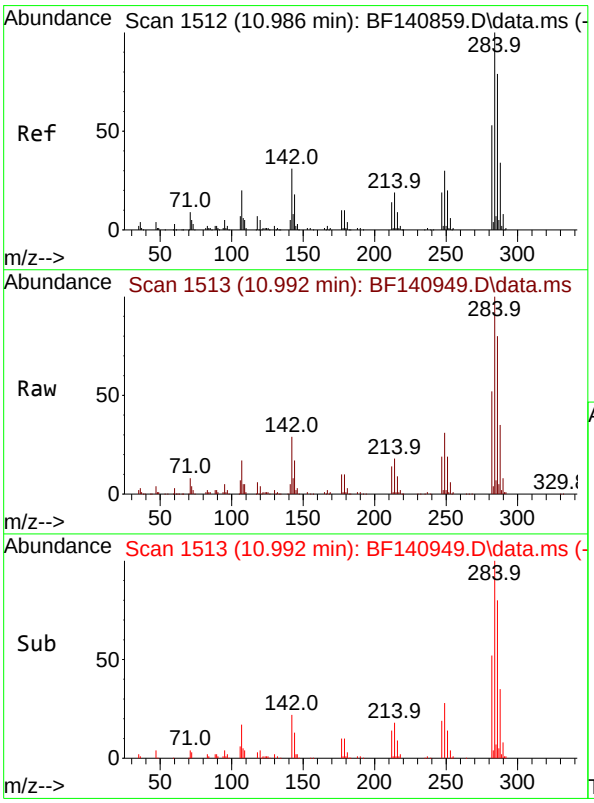
#67
4-Bromophenyl-phenylether
Concen: 55.838 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:248 Resp: 117531

Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.4	116.2
141	71.8	62.9	94.3

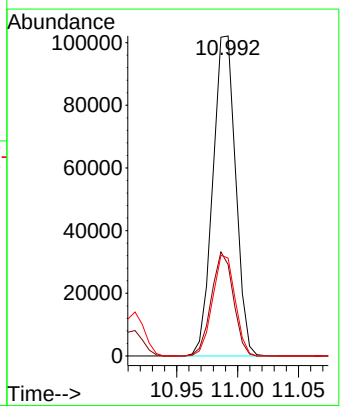


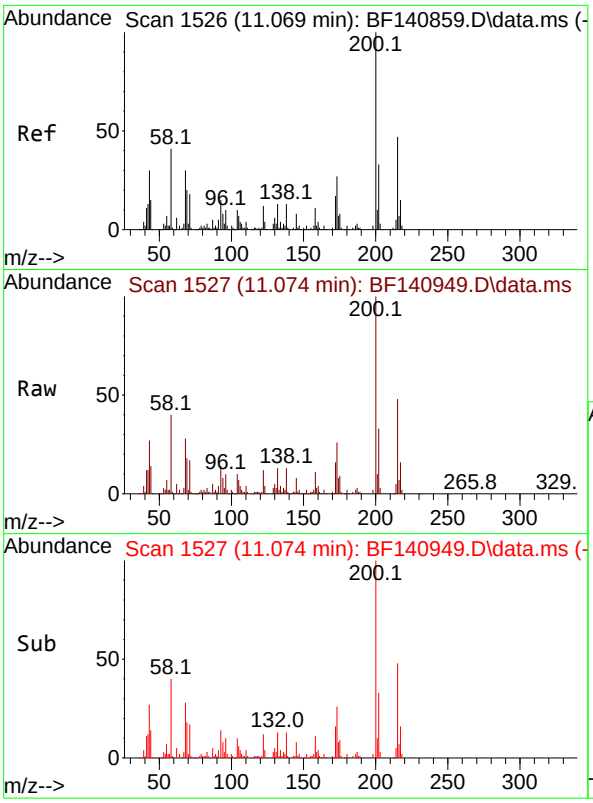


#68
Hexachlorobenzene
Concen: 55.821 ng
RT: 10.992 min Scan# 1513
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:284 Resp: 133215

Ion	Ratio	Lower	Upper
284	100		
142	28.6	24.6	36.8
249	30.6	24.3	36.5



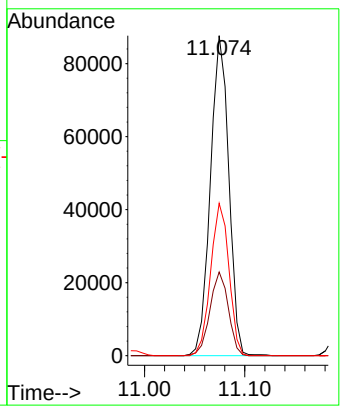


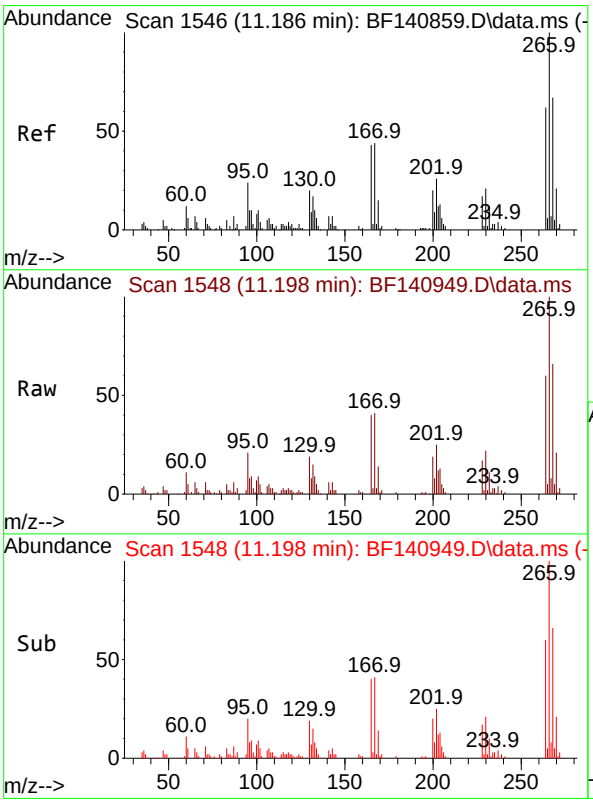
#69
Atrazine
Concen: 69.163 ng
RT: 11.074 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:200 Resp: 111739

Ion	Ratio	Lower	Upper
200	100		
173	26.1	6.6	46.6
215	47.6	26.7	66.7

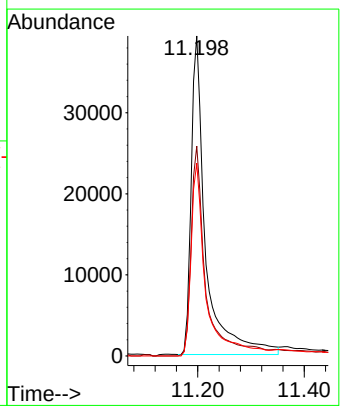


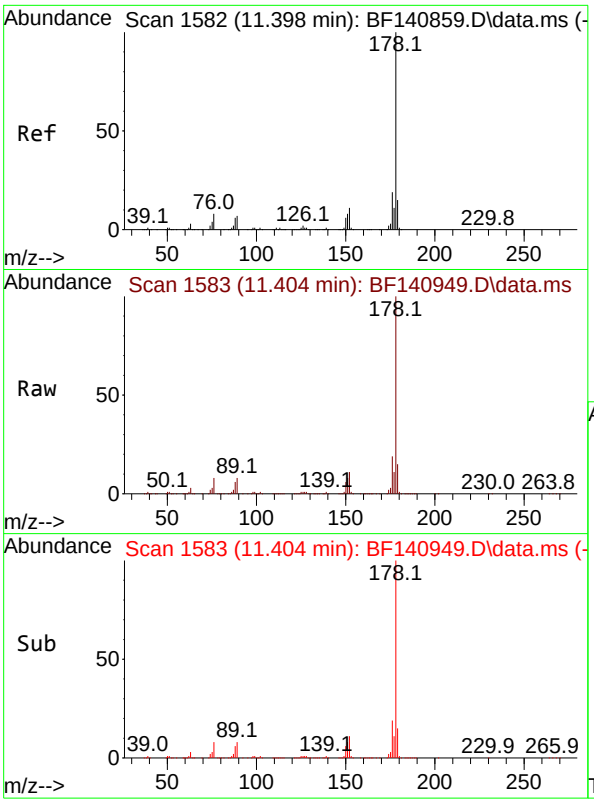


#70
Pentachlorophenol
Concen: 85.412 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:266 Resp: 74523

Ion	Ratio	Lower	Upper
266	100		
268	65.6	54.0	81.0
264	60.3	49.4	74.2



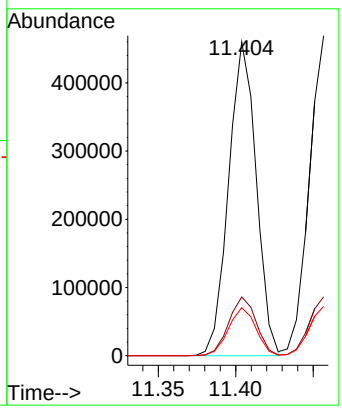


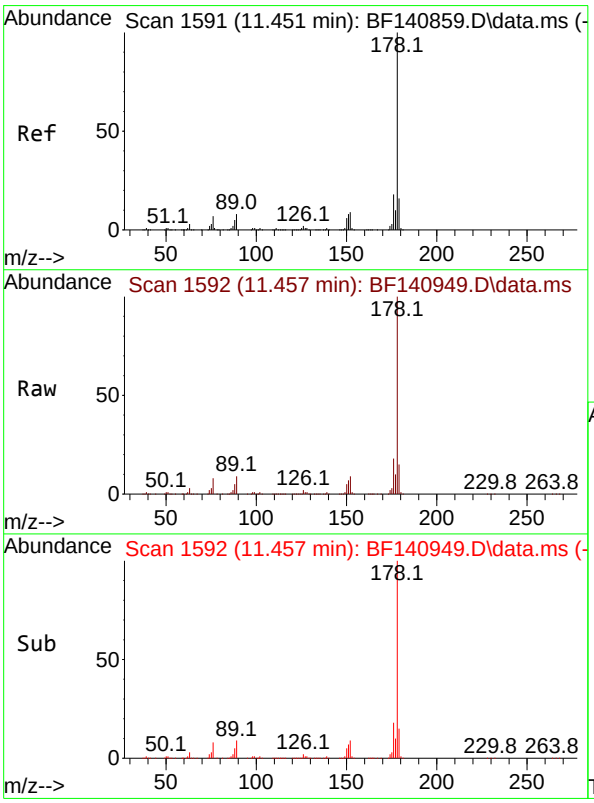
#71
Phenanthrene
Concen: 58.813 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:178 Resp: 569035

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.3	12.1	18.1

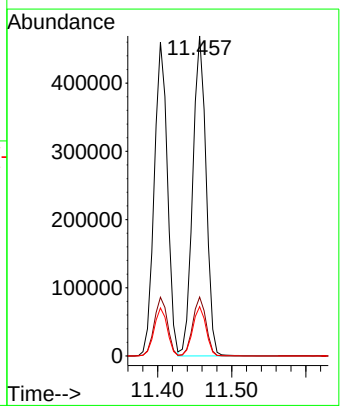


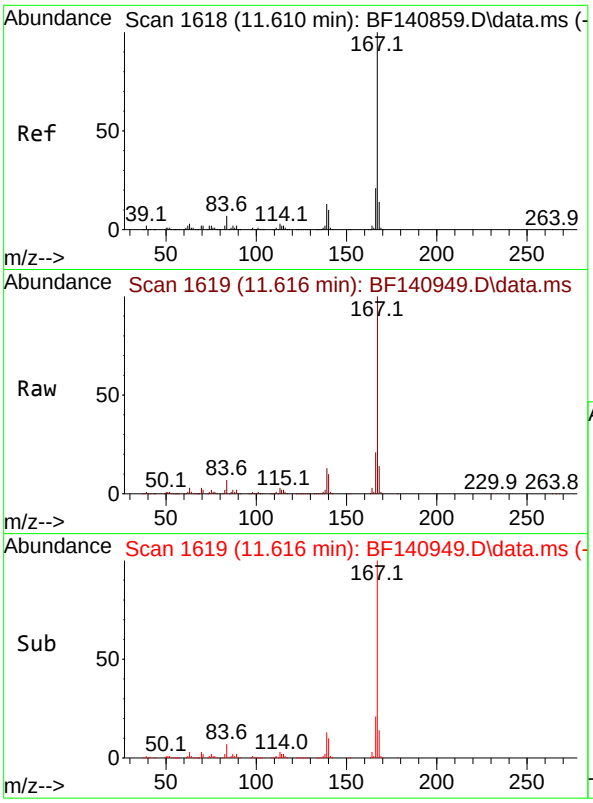


#72
Anthracene
Concen: 61.442 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:178 Resp: 585440

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	22.0
179	15.4	12.6	18.8



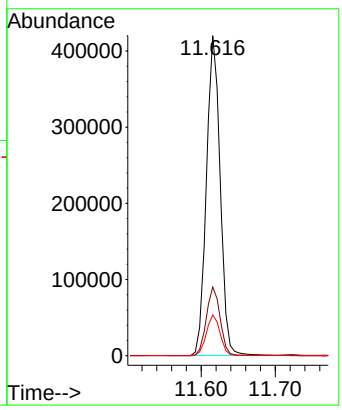


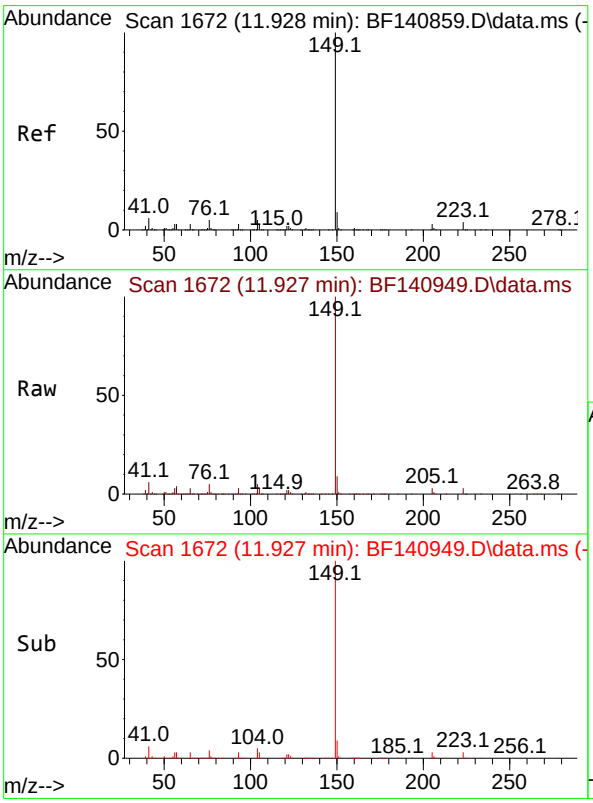
#73
Carbazole
Concen: 57.981 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:167 Resp: 541131

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	12.7	10.2	15.2

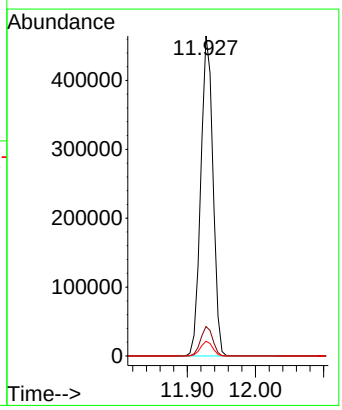


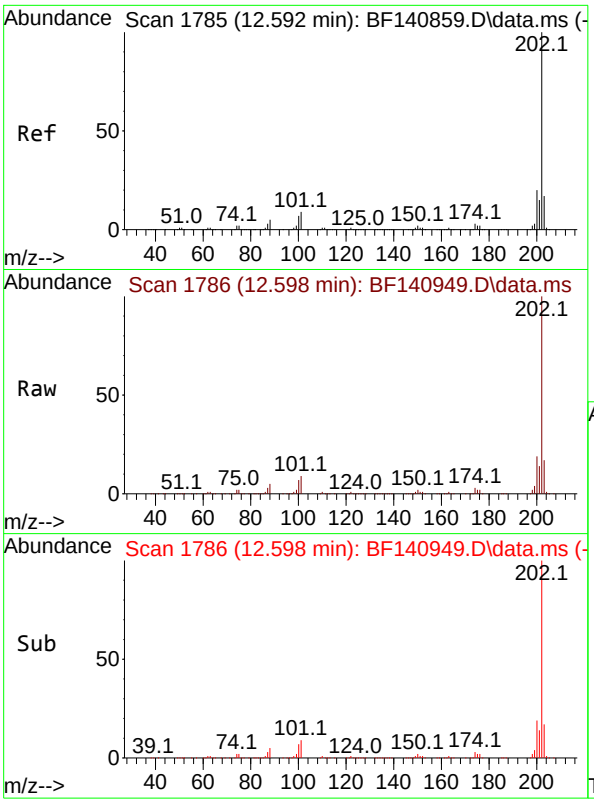


#74
Di-n-butylphthalate
Concen: 52.767 ng
RT: 11.927 min Scan# 1672
Delta R.T. -0.000 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 577959

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.5	11.3
104	4.6	3.8	5.8



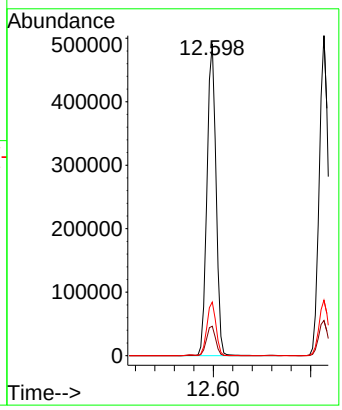


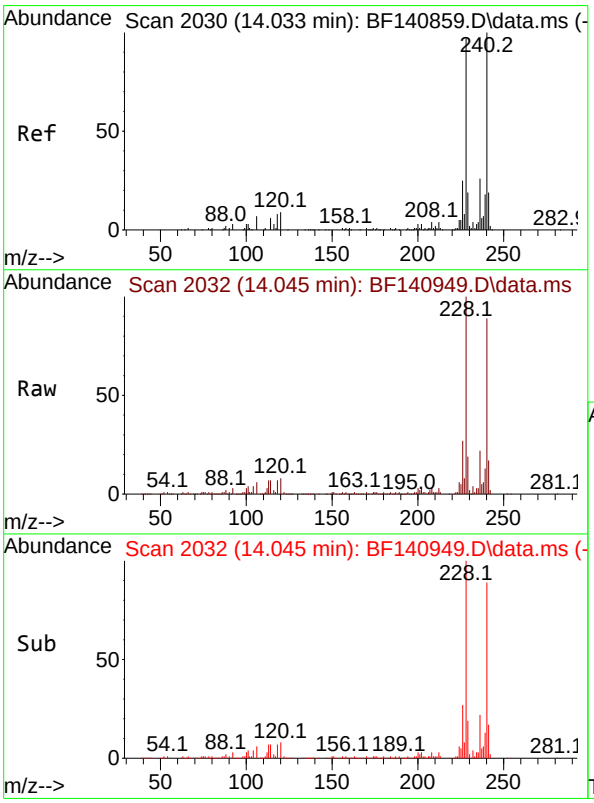
#75
Fluoranthene
Concen: 56.429 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:202 Resp: 628778

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	29.3
203	17.2	0.0	37.4

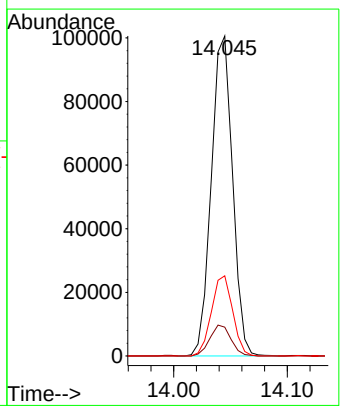


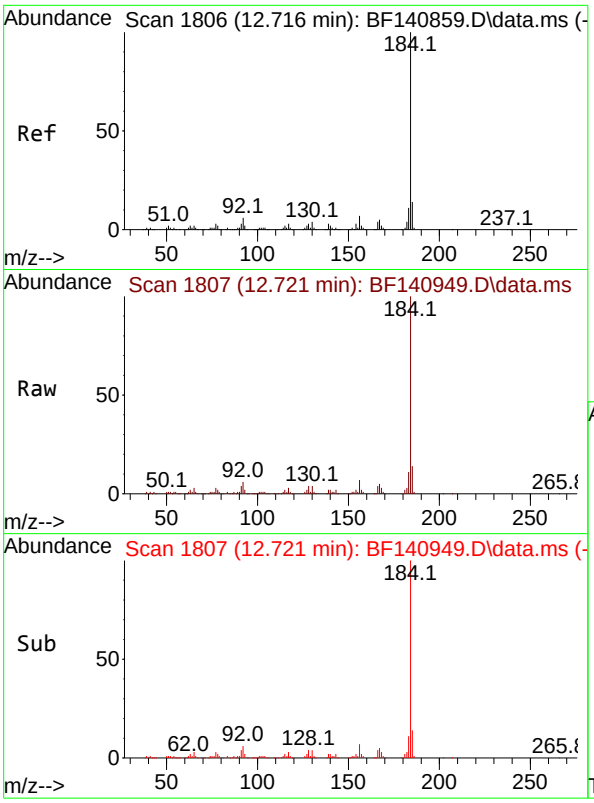


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:240 Resp: 131096

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.6	11.4
236	25.0	20.5	30.7



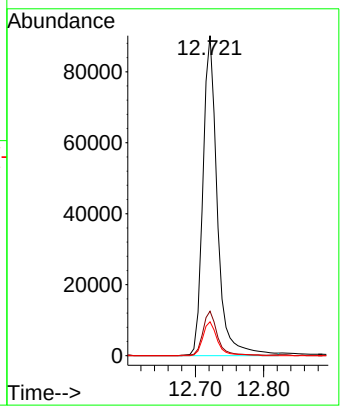


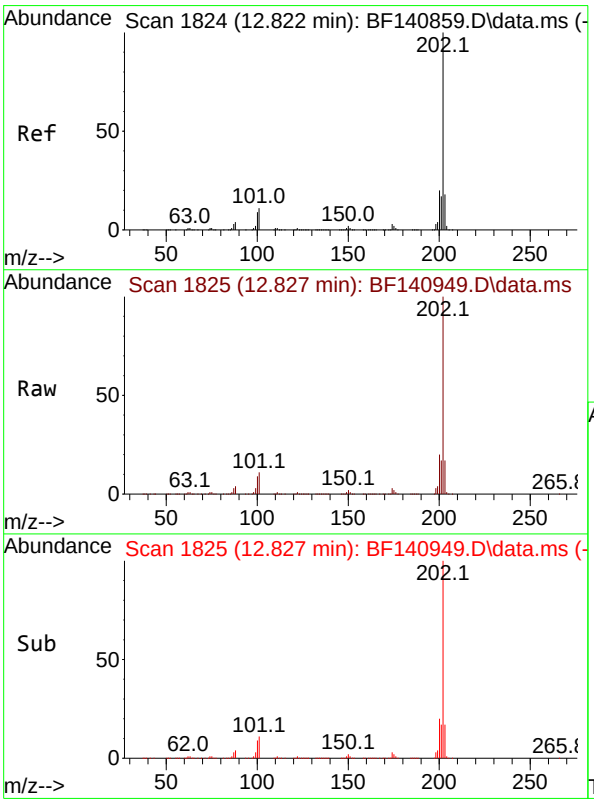
#77
Benzidine
Concen: 49.567 ng
RT: 12.721 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:184 Resp: 132623

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.1	16.7
183	10.6	9.0	13.4

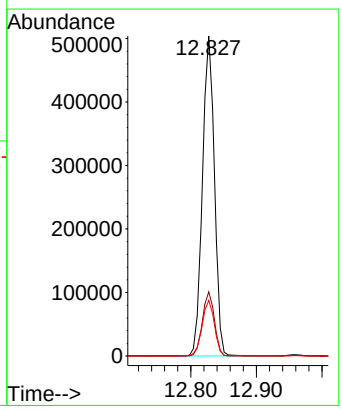


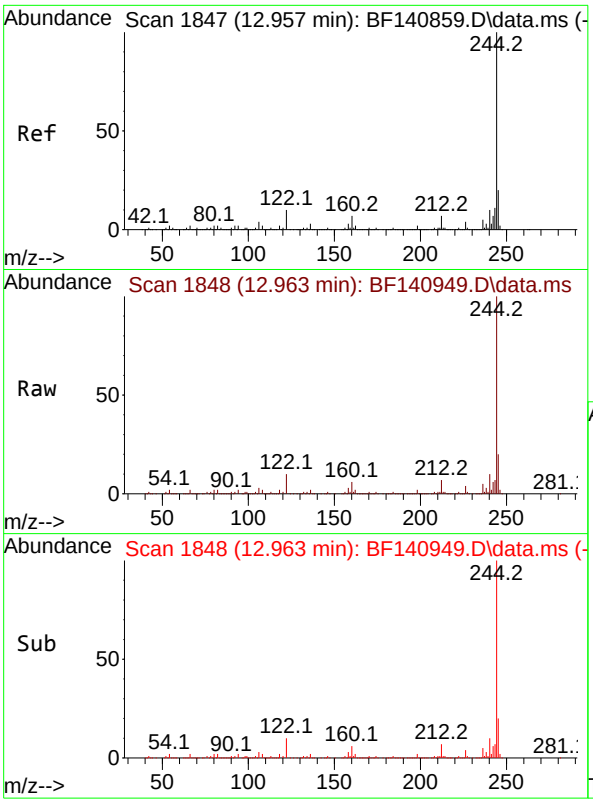


#78
Pyrene
Concen: 55.145 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:202 Resp: 642867

Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.1	24.1
203	17.4	14.2	21.4



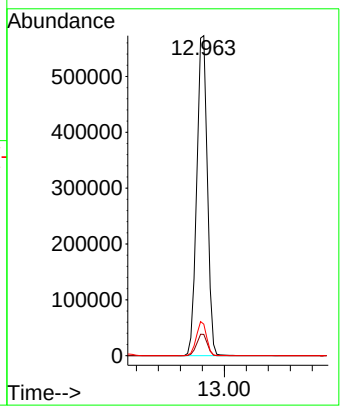


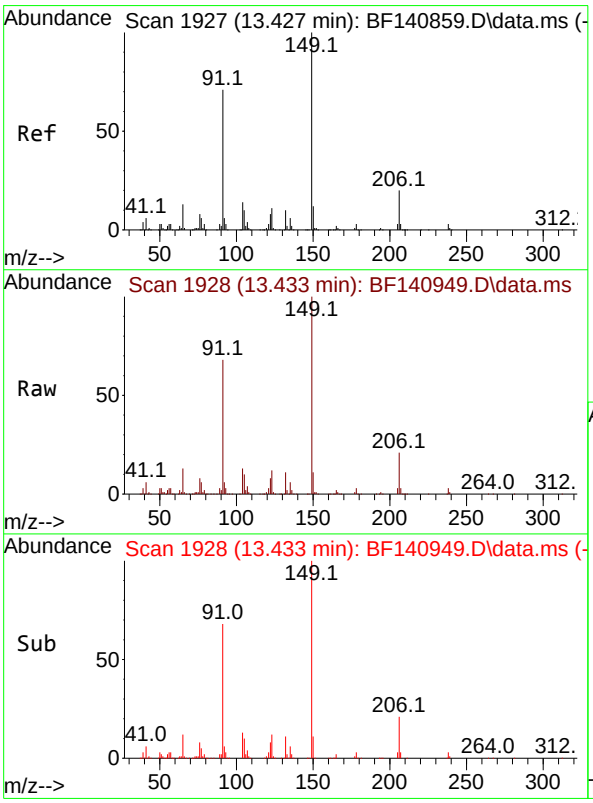
#79
Terphenyl-d14
Concen: 92.274 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:244 Resp: 767138

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	9.8	8.2	12.2

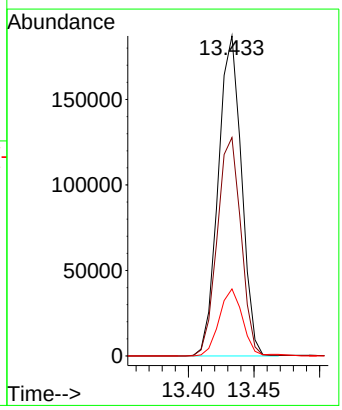


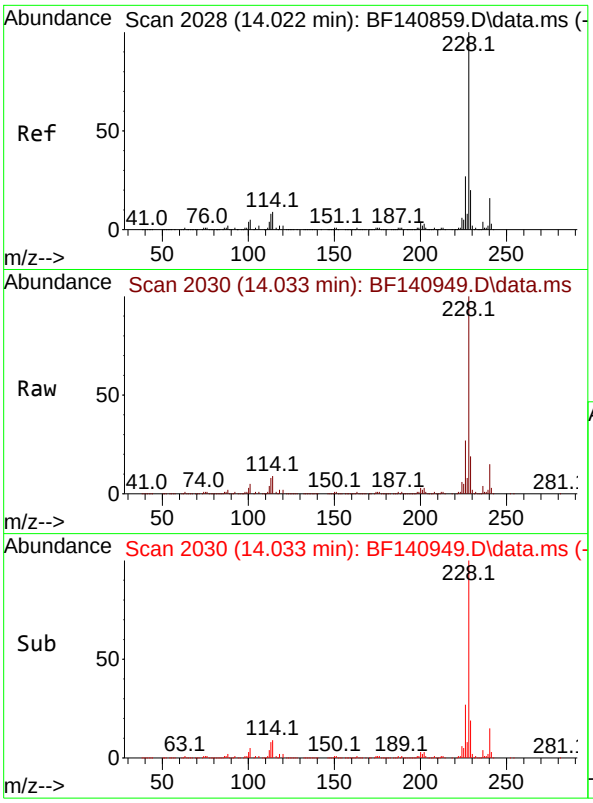


#80
Butylbenzylphthalate
Concen: 53.914 ng
RT: 13.433 min Scan# 1928
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 231266

Ion	Ratio	Lower	Upper
149	100		
91	68.2	56.7	85.1
206	21.0	16.4	24.6



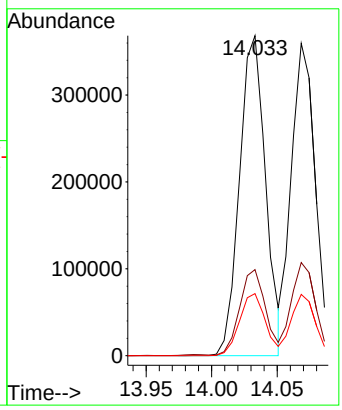


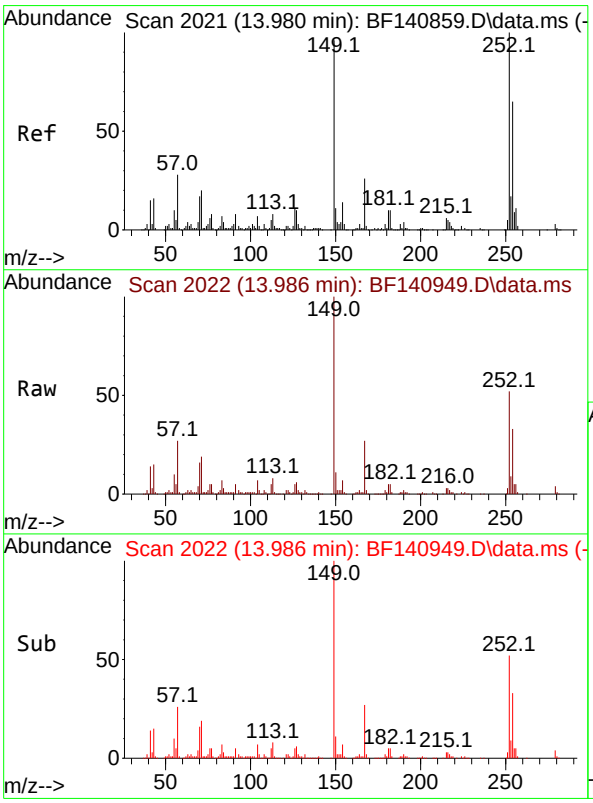
#81
Benzo(a)anthracene
Concen: 54.752 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:228 Resp: 508709

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.4	15.8	23.8

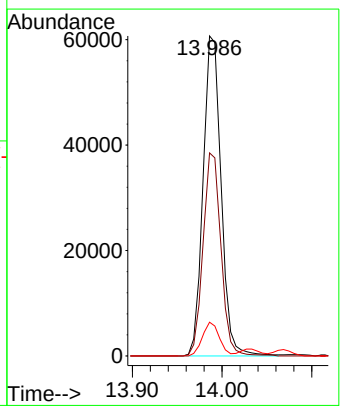


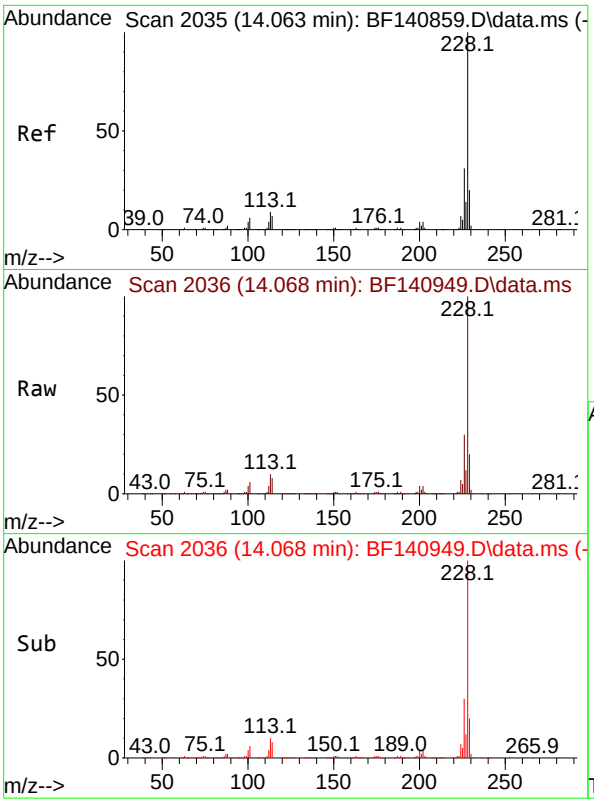


#82
3,3'-Dichlorobenzidine
Concen: 30.219 ng
RT: 13.986 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:252 Resp: 84711

Ion	Ratio	Lower	Upper
252	100		
254	63.5	52.3	78.5
126	10.5	8.4	12.6



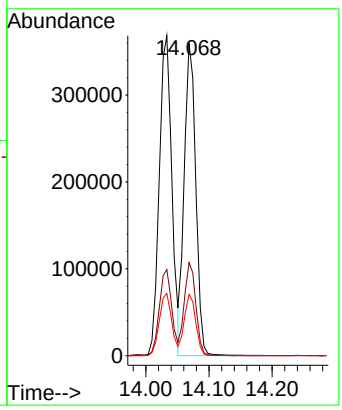


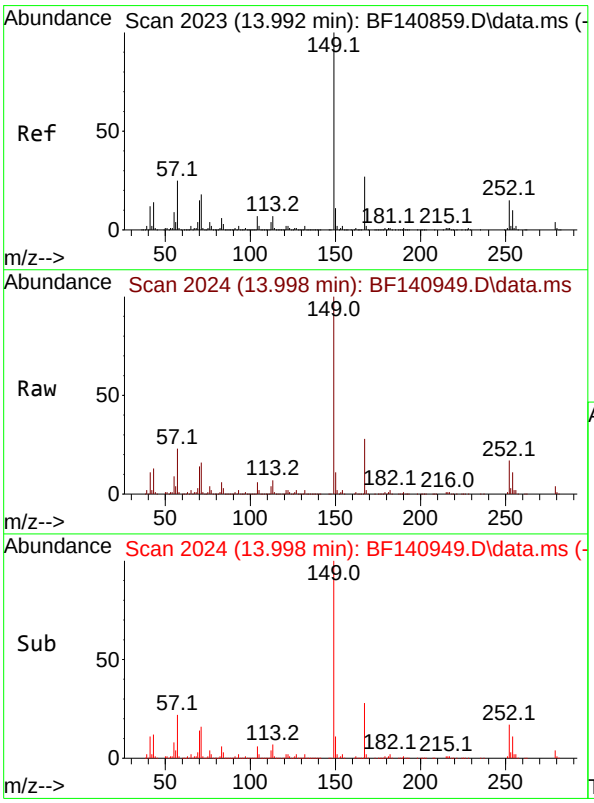
#83
Chrysene
Concen: 54.249 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:228 Resp: 458342

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.1	36.1
229	19.6	16.0	24.0

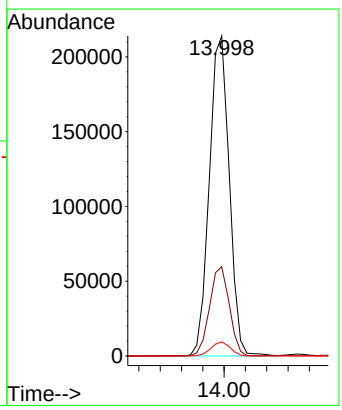


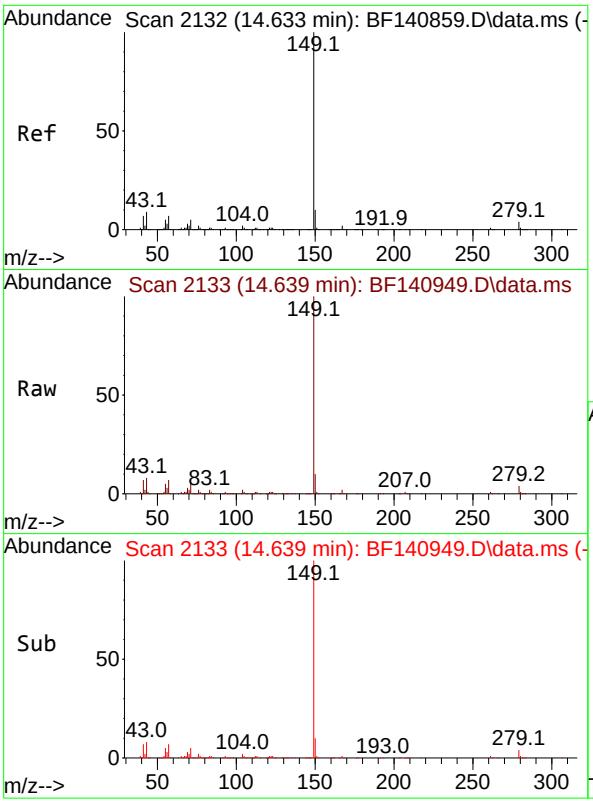


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.188 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:149 Resp: 277592

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.8	32.8
279	4.4	3.5	5.3



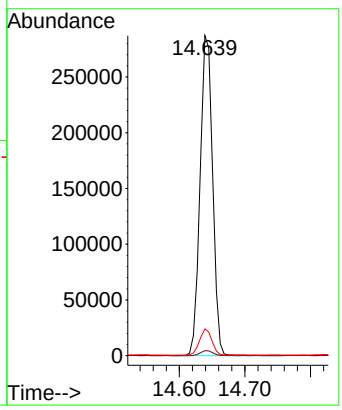


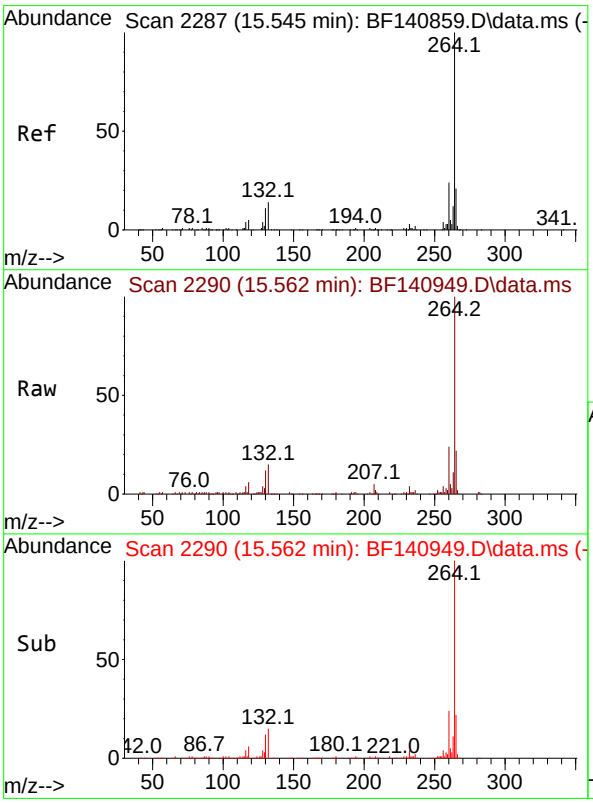
#85
Di-n-octyl phthalate
Concen: 45.836 ng
RT: 14.639 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:149 Resp: 383542

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	7.0	10.6

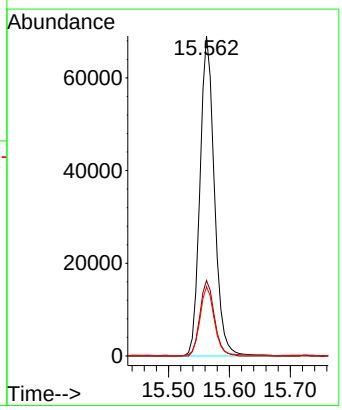


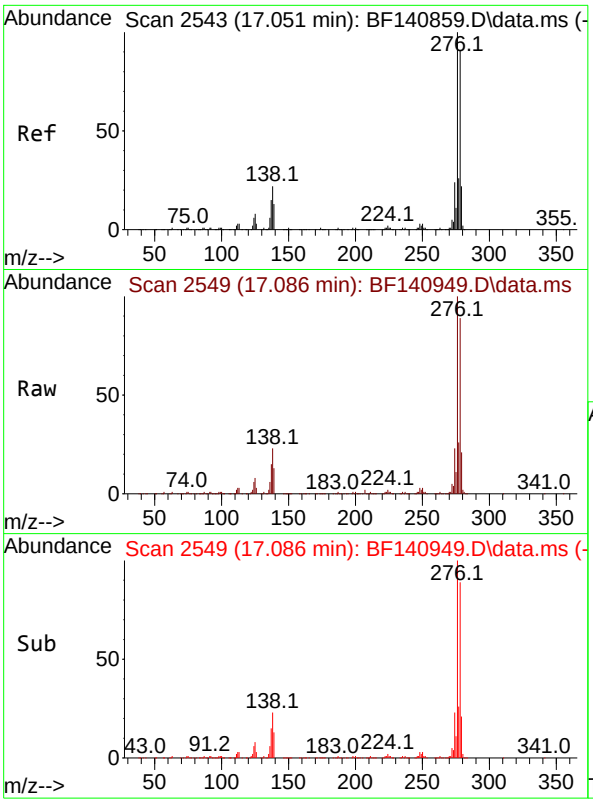


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.562 min Scan# 2290
Delta R.T. 0.017 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:264 Resp: 113765

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.1	28.7
265	21.6	17.0	25.4



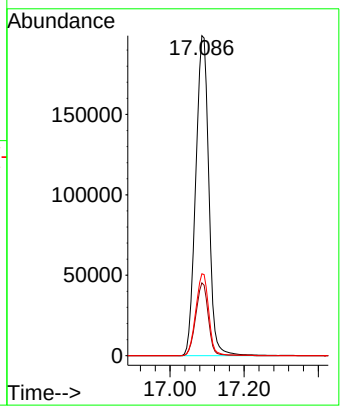


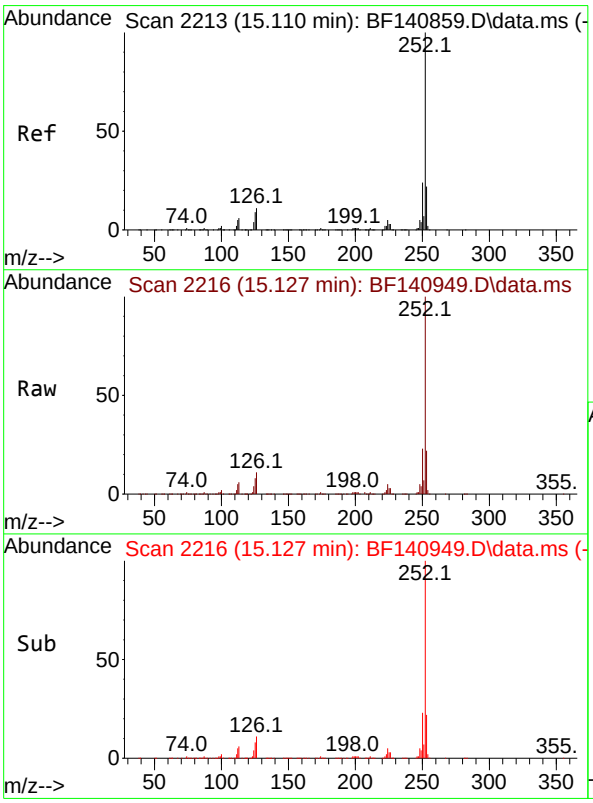
#87
Indeno(1,2,3-cd)pyrene
Concen: 68.540 ng
RT: 17.086 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:276 Resp: 486592

Ion	Ratio	Lower	Upper
276	100		
138	21.8	16.9	25.3
277	25.4	20.2	30.4

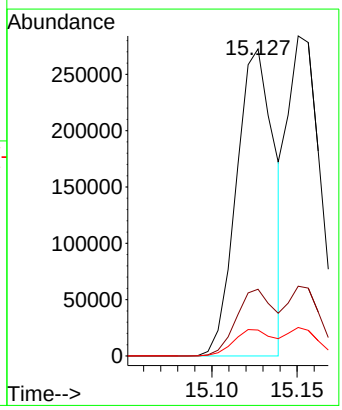


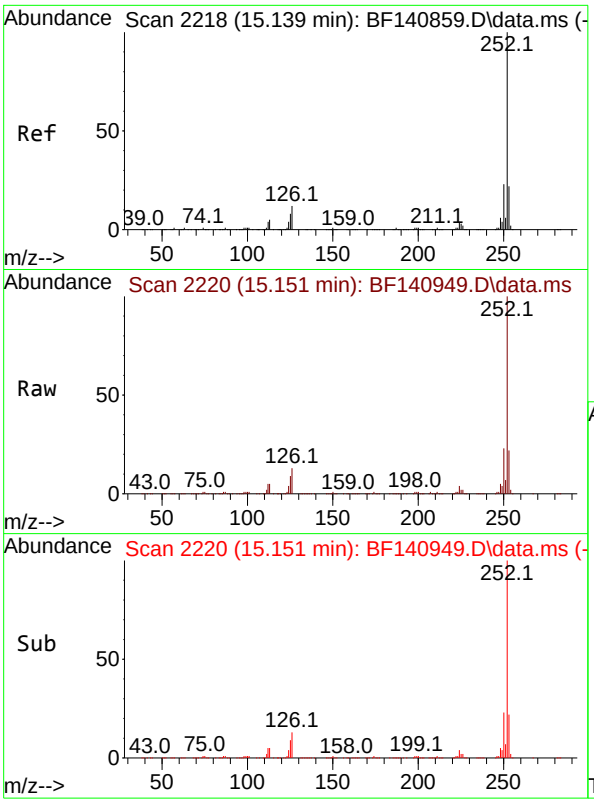


#88
Benzo(b)fluoranthene
Concen: 53.241 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.017 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:252 Resp: 420442

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	8.4	7.0	10.4



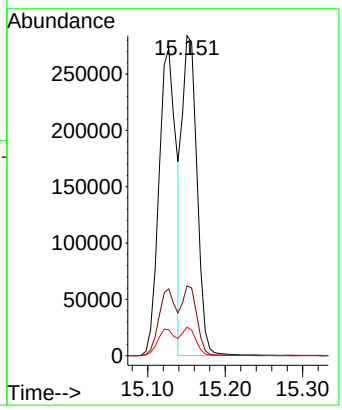


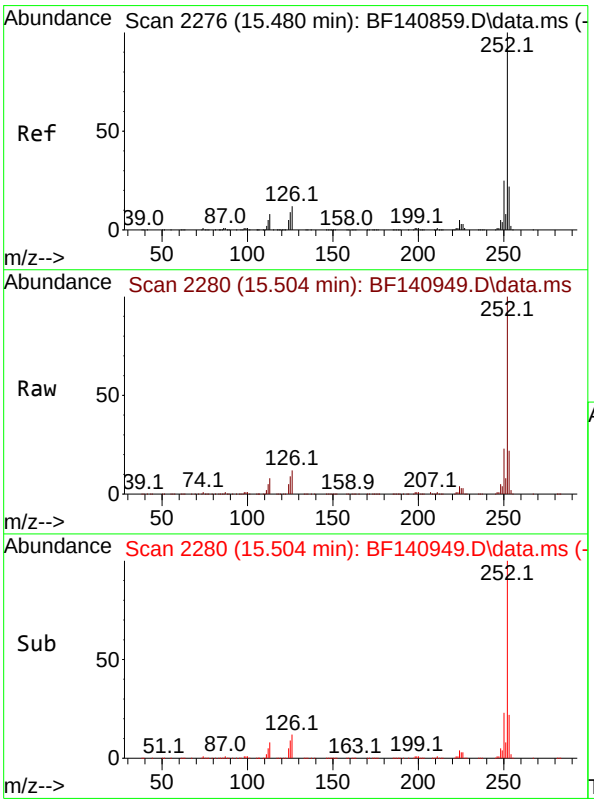
#89
Benzo(k)fluoranthene
Concen: 55.882 ng
RT: 15.151 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:252 Resp: 378547

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	8.9	6.8	10.2

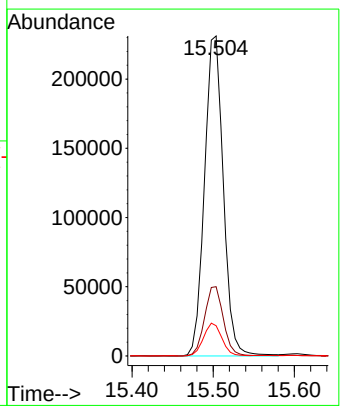


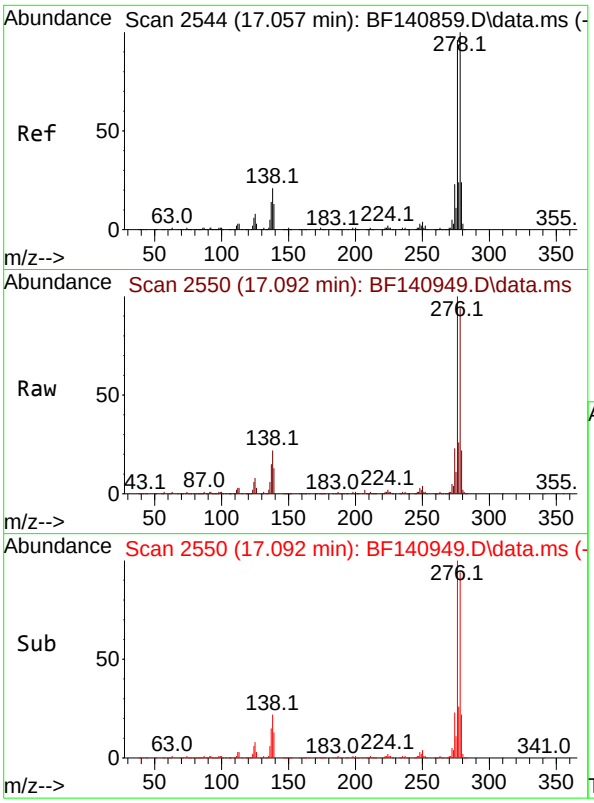


#90
Benzo(a)pyrene
Concen: 60.174 ng
RT: 15.504 min Scan# 2280
Delta R.T. 0.023 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:252 Resp: 372093

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.5	7.5	11.3



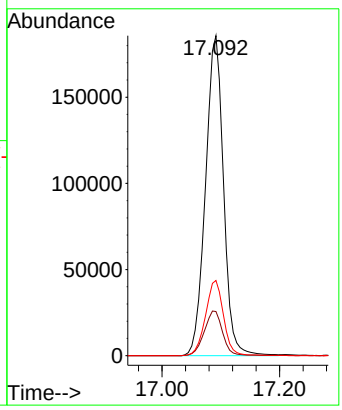


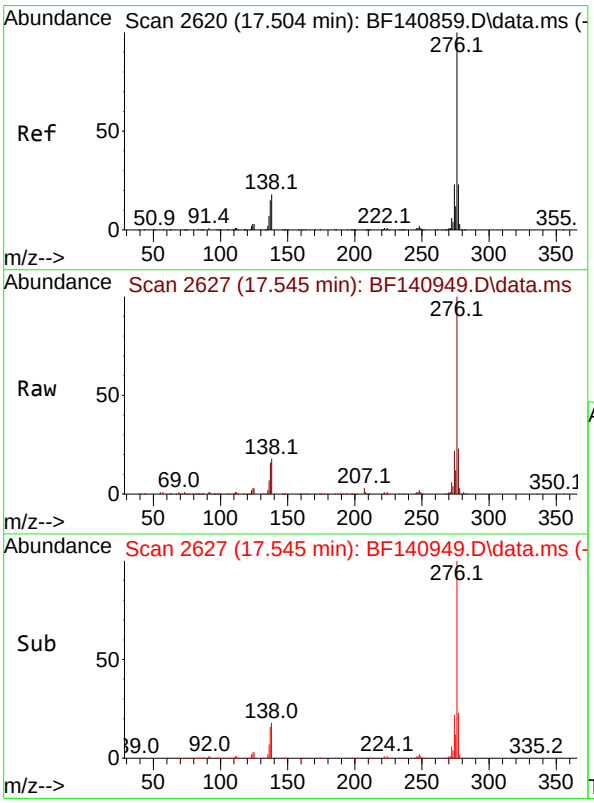
#91
Dibenzo(a,h)anthracene
Concen: 67.298 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Instrument :
BNA_F
ClientSampleId :
OU4-VSL-11-121224MSD

Tgt Ion:278 Resp: 395812

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	23.5	19.2	28.8

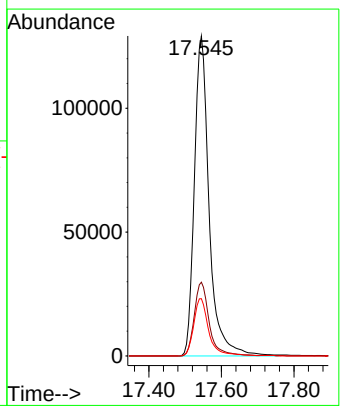




#92
Benzo(g,h,i)perylene
Concen: 61.149 ng
RT: 17.545 min Scan# 2627
Delta R.T. 0.041 min
Lab File: BF140949.D
Acq: 20 Dec 2024 14:36

Tgt Ion:276 Resp: 366040

Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.7	28.1
138	17.9	14.2	21.2



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	66227	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	248513	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	146137	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	291861	20.000	ng		0.00
76) Chrysene-d12	14.027	240	207326	20.000	ng		0.00
86) Perylene-d12	15.516	264	184556	20.000	ng		-0.03
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	318577	79.188	ng		0.00
7) Phenol-d6	6.504	99	421997	79.195	ng		0.00
23) Nitrobenzene-d5	7.422	82	386452	77.801	ng		0.00
42) 2,4,6-Tribromophenol	10.681	330	135717	78.522	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	811564	76.352	ng		0.00
79) Terphenyl-d14	12.957	244	1001326	76.158	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.605	88	65032	37.529	ng		98
3) Pyridine	3.387	79	154925	38.605	ng		97
4) n-Nitrosodimethylamine	3.346	42	74446	36.798	ng		95
6) Aniline	6.522	93	175414	38.501	ng		98
8) 2-Chlorophenol	6.646	128	177168	40.383	ng		99
9) Benzaldehyde	6.410	77	118899	40.271	ng		98
10) Phenol	6.516	94	218889	39.635	ng		94
11) bis(2-Chloroethyl)ether	6.587	93	157329	38.200	ng		99
12) 1,3-Dichlorobenzene	6.787	146	195796	39.166	ng		98
13) 1,4-Dichlorobenzene	6.869	146	199400	39.295	ng		99
14) 1,2-Dichlorobenzene	7.022	146	186168	38.884	ng		99
15) Benzyl Alcohol	7.004	79	149510	39.242	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.122	45	174534	35.973	ng		80
17) 2-Methylphenol	7.122	107	141105	40.286	ng		98
18) Hexachloroethane	7.351	117	71272	37.728	ng		97
19) n-Nitroso-di-n-propyla...	7.263	70	121188	37.915	ng		98
20) 3+4-Methylphenols	7.275	107	183332	39.472	ng	#	85
22) Acetophenone	7.263	105	244338	39.304	ng		96
24) Nitrobenzene	7.440	77	198770	39.061	ng		96
25) Isophorone	7.675	82	313176	37.629	ng		99
26) 2-Nitrophenol	7.751	139	96414	41.138	ng		99
27) 2,4-Dimethylphenol	7.793	122	109542	40.022	ng		99
28) bis(2-Chloroethoxy)met...	7.875	93	195305	37.572	ng		98
29) 2,4-Dichlorophenol	8.004	162	150227	39.755	ng		99
30) 1,2,4-Trichlorobenzene	8.075	180	168994	39.012	ng		99
31) Naphthalene	8.151	128	539862	39.547	ng		100
32) Benzoic acid	7.957	122	105192	40.523	ng		97
33) 4-Chloroaniline	8.210	127	180741	39.864	ng		97
34) Hexachlorobutadiene	8.263	225	112071	38.453	ng		99
35) Caprolactam	8.592	113	48736	43.322	ng		95
36) 4-Chloro-3-methylphenol	8.704	107	171340	40.286	ng		98
37) 2-Methylnaphthalene	8.845	142	354629	39.272	ng		99
38) 1-Methylnaphthalene	8.940	142	353547	39.588	ng		99
40) 1,2,4,5-Tetrachloroben...	9.010	216	176578	39.312	ng		99
41) Hexachlorocyclopentadiene	8.987	237	26032	28.674	ng		98
43) 2,4,6-Trichlorophenol	9.134	196	103055	37.469	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration

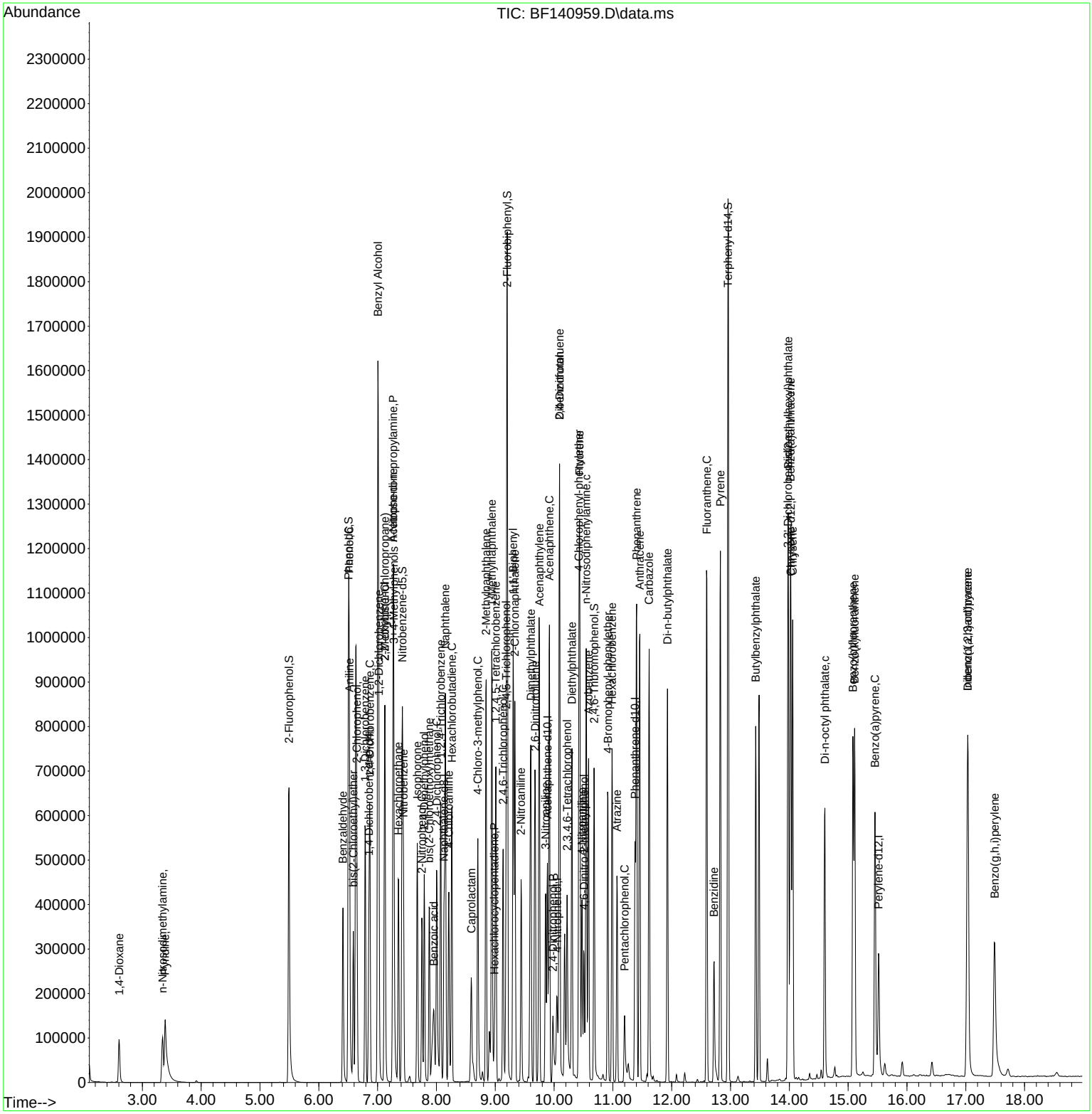
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	113791	37.641	ng	99
46) 1,1'-Biphenyl	9.304	154	451267	38.834	ng	99
47) 2-Chloronaphthalene	9.334	162	347940	39.139	ng	99
48) 2-Nitroaniline	9.439	65	105740	39.384	ng	95
49) Acenaphthylene	9.751	152	522615	40.003	ng	99
50) Dimethylphthalate	9.604	163	394835	38.322	ng	100
51) 2,6-Dinitrotoluene	9.681	165	93666	39.767	ng	94
52) Acenaphthene	9.922	154	331006	39.664	ng	100
53) 3-Nitroaniline	9.857	138	96968	41.485	ng	96
54) 2,4-Dinitrophenol	9.981	184	46064	43.346	ng	95
55) Dibenzofuran	10.092	168	499757	38.647	ng	100
56) 4-Nitrophenol	10.051	139	44580	37.930	ng	99
57) 2,4-Dinitrotoluene	10.092	165	125320	40.439	ng	98
58) Fluorene	10.434	166	416576	39.048	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.222	232	92785	37.667	ng	94
60) Diethylphthalate	10.304	149	395324	37.002	ng	99
61) 4-Chlorophenyl-phenyle...	10.422	204	203526	37.979	ng	98
62) 4-Nitroaniline	10.475	138	94041	38.500	ng	97
63) Azobenzene	10.586	77	368436	36.682	ng	96
65) 4,6-Dinitro-2-methylph...	10.510	198	67642	40.900	ng	96
66) n-Nitrosodiphenylamine	10.545	169	353375	39.380	ng	99
67) 4-Bromophenyl-phenylether	10.916	248	124736	38.203	ng	96
68) Hexachlorobenzene	10.986	284	143941	38.882	ng	99
69) Atrazine	11.069	200	84689	33.792	ng	100
70) Pentachlorophenol	11.198	266	43771	32.340	ng	99
71) Phenanthrene	11.404	178	595675	39.689	ng	100
72) Anthracene	11.457	178	580319	39.262	ng	100
73) Carbazole	11.616	167	585180	40.420	ng	100
74) Di-n-butylphthalate	11.928	149	646754	38.065	ng	99
75) Fluoranthene	12.598	202	711196	41.145	ng	99
77) Benzidine	12.722	184	184675	43.643	ng	99
78) Pyrene	12.827	202	715402	38.803	ng	100
80) Butylbenzylphthalate	13.427	149	266719	39.317	ng	98
81) Benzo(a)anthracene	14.022	228	582184	39.621	ng	100
82) 3,3'-Dichlorobenzidine	13.974	252	179769	40.550	ng	98
83) Chrysene	14.057	228	508731	38.074	ng	99
84) Bis(2-ethylhexyl)phtha...	13.980	149	327711	37.465	ng	99
85) Di-n-octyl phthalate	14.604	149	439301	33.196	ng	98
87) Indeno(1,2,3-cd)pyrene	17.033	276	445783	38.707	ng	100
88) Benzo(b)fluoranthene	15.080	252	504436	39.375	ng	99
89) Benzo(k)fluoranthene	15.110	252	400757	36.468	ng	99
90) Benzo(a)pyrene	15.457	252	380341	37.915	ng	100
91) Dibenzo(a,h)anthracene	17.033	278	367688	38.537	ng	98
92) Benzo(g,h,i)perylene	17.492	276	360772	37.152	ng	100

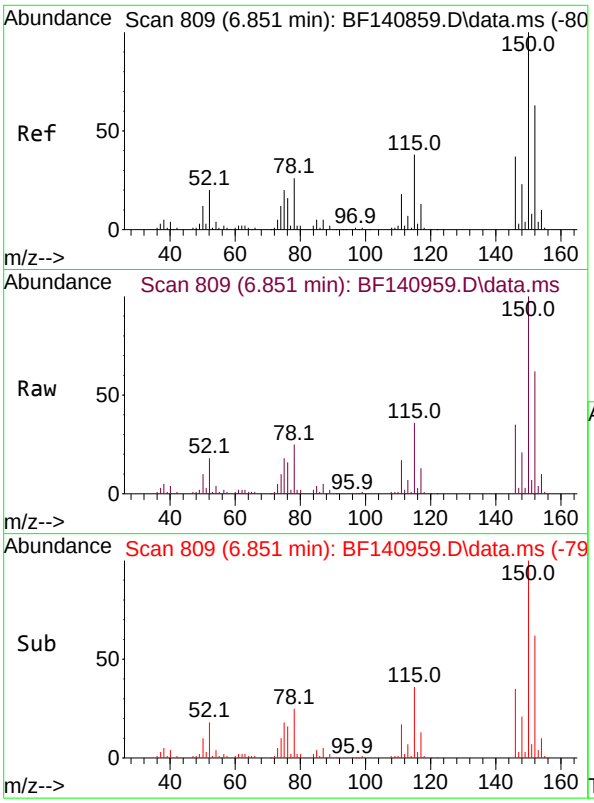
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF122024\
Data File : BF140959.D
Acq On : 20 Dec 2024 19:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Dec 20 22:00:16 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF121624.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 16 16:59:50 2024
Response via : Initial Calibration



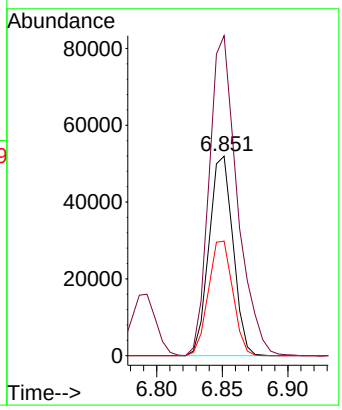


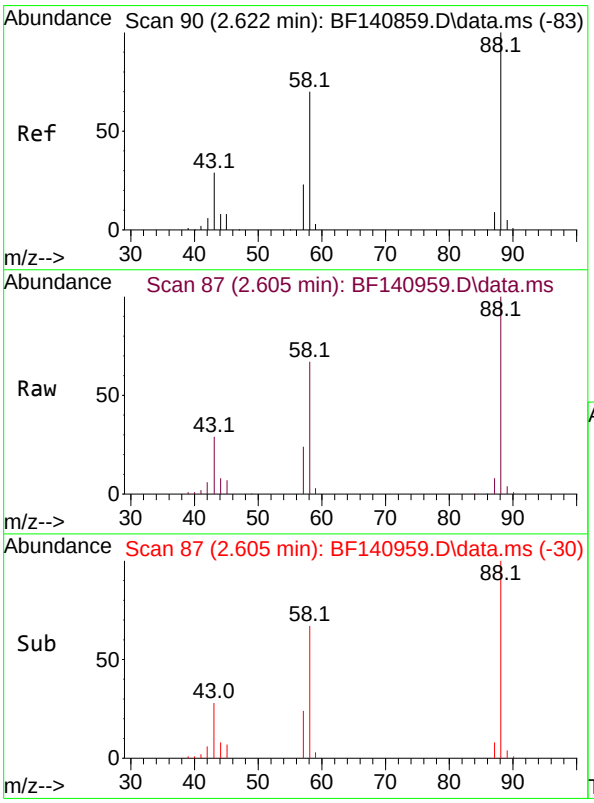
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 66227

Ion	Ratio	Lower	Upper
152	100		
150	160.4	127.9	191.9
115	57.4	48.0	72.0

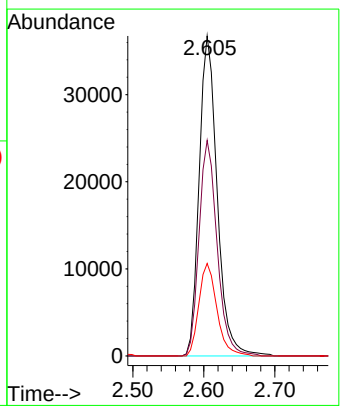


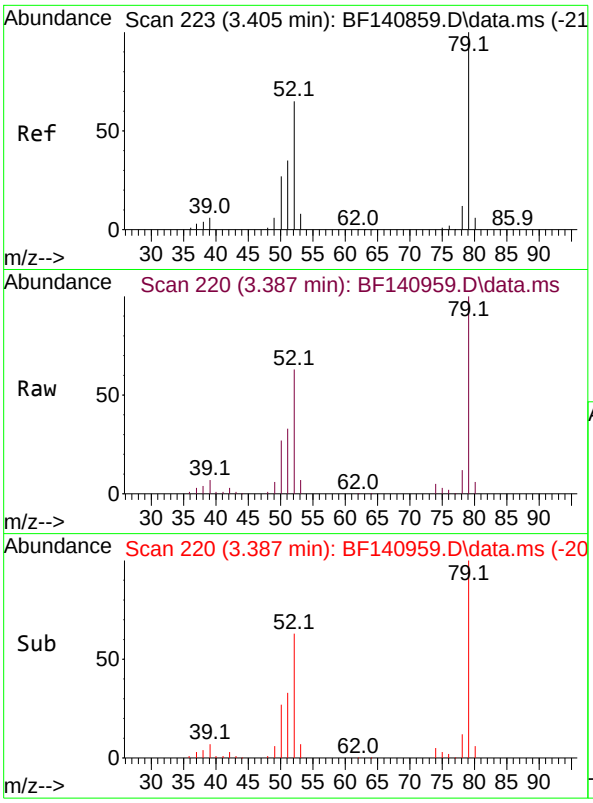


#2
1,4-Dioxane
Concen: 37.529 ng
RT: 2.605 min Scan# 87
Delta R.T. -0.018 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 88 Resp: 65032

Ion	Ratio	Lower	Upper
88	100		
58	67.6	55.8	83.8
43	28.9	22.7	34.1



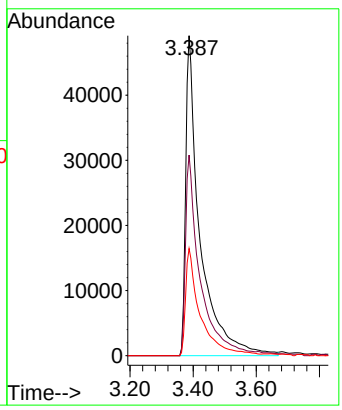


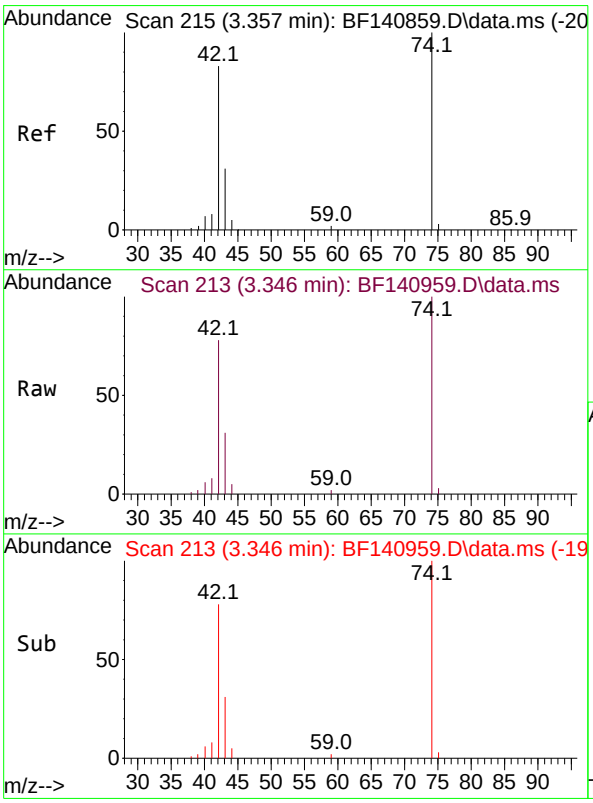
#3
Pyridine
Concen: 38.605 ng
RT: 3.387 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 154925

Ion	Ratio	Lower	Upper
79	100		
52	62.7	51.7	77.5
51	33.5	28.2	42.4

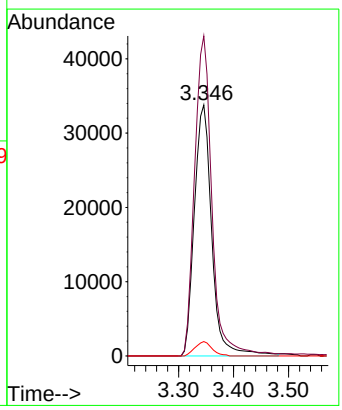


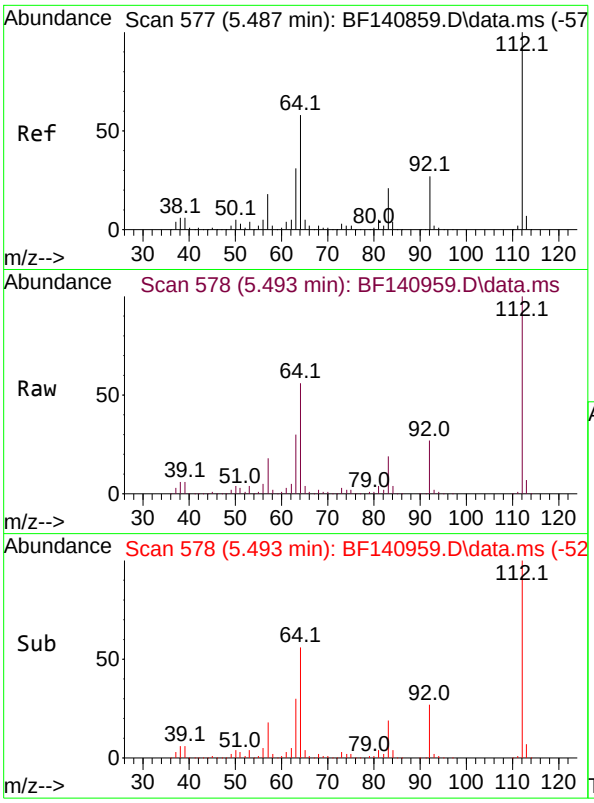


#4
n-Nitrosodimethylamine
Concen: 36.798 ng
RT: 3.346 min Scan# 213
Delta R.T. -0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 42 Resp: 74446

Ion	Ratio	Lower	Upper
42	100		
74	127.5	96.9	145.3
44	5.8	4.4	6.6



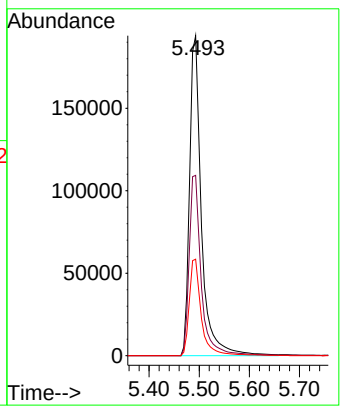


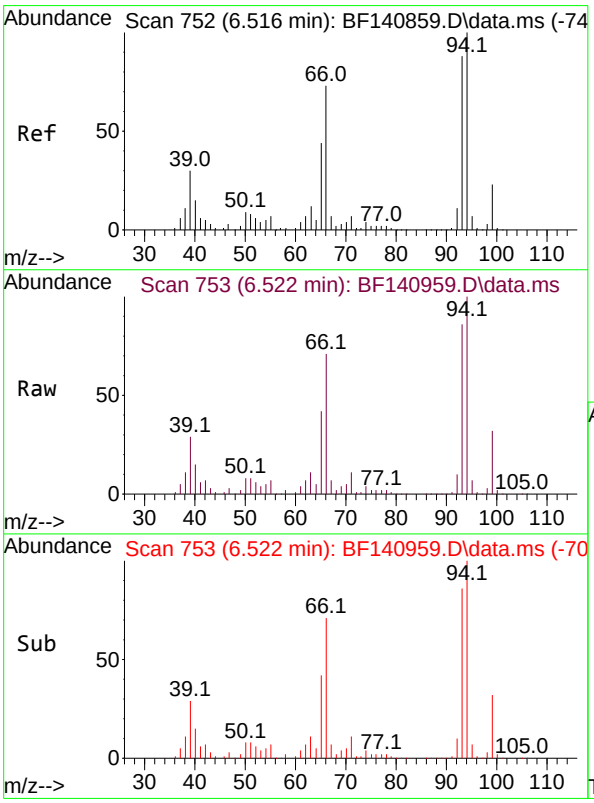
#5
2-Fluorophenol
Concen: 79.188 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 318577

Ion	Ratio	Lower	Upper
112	100		
64	56.3	46.1	69.1
63	30.2	24.9	37.3

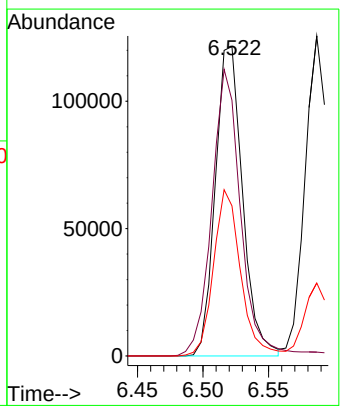


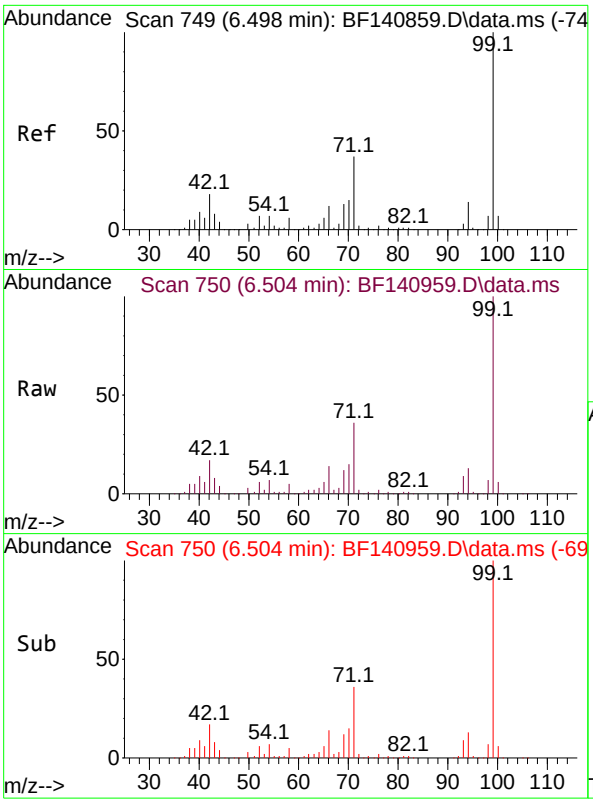


#6
Aniline
Concen: 38.501 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 93 Resp: 175414

Ion	Ratio	Lower	Upper
93	100		
66	82.6	67.0	100.4
65	48.5	40.4	60.6



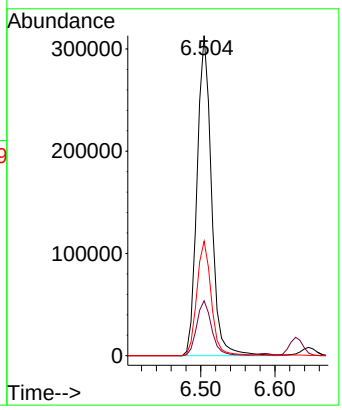


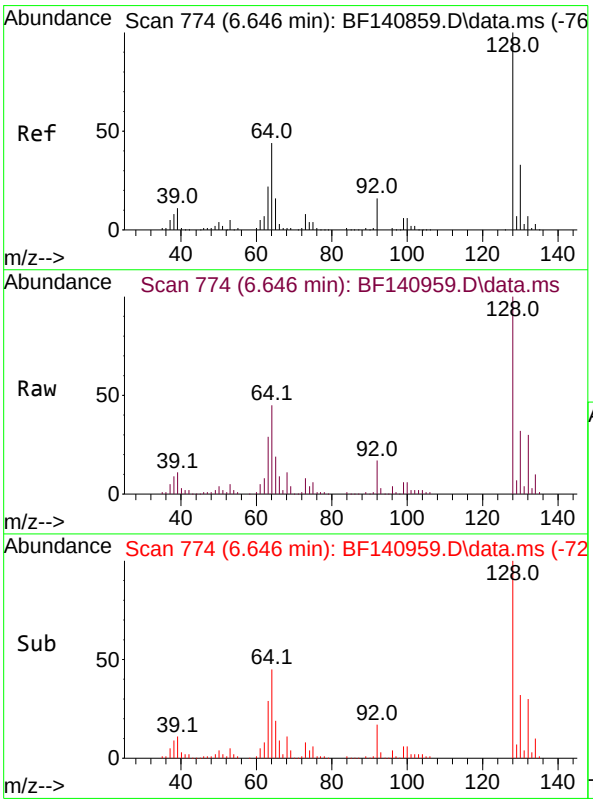
#7
Phenol-d6
Concen: 79.195 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 421997

Ion	Ratio	Lower	Upper
99	100		
42	17.2	14.3	21.5
71	35.8	29.9	44.9

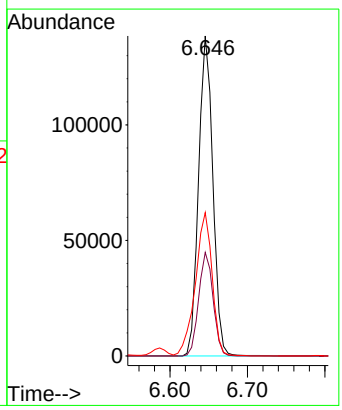


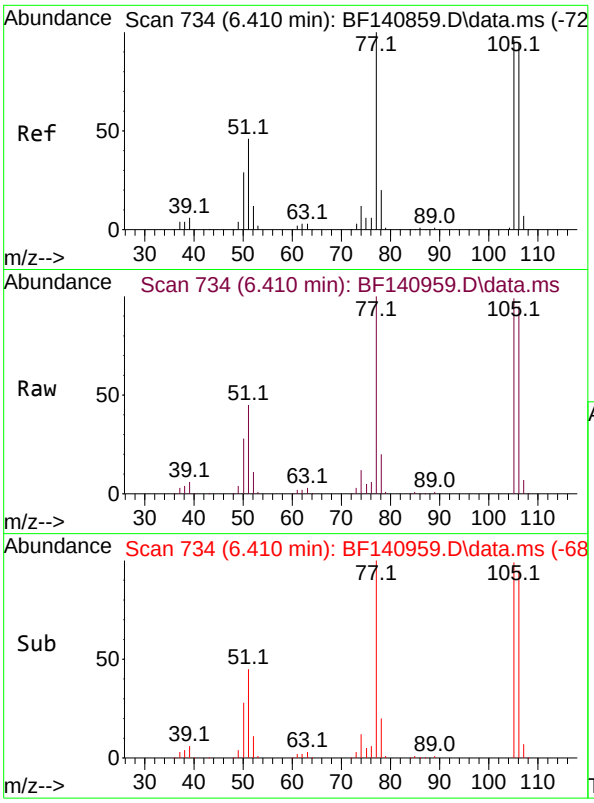


#8
2-Chlorophenol
Concen: 40.383 ng
RT: 6.646 min Scan# 774
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:128 Resp: 177168

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.9	52.9
64	44.8	24.3	64.3



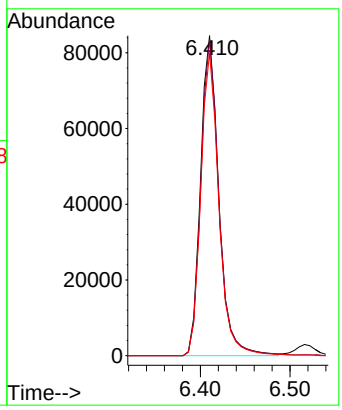


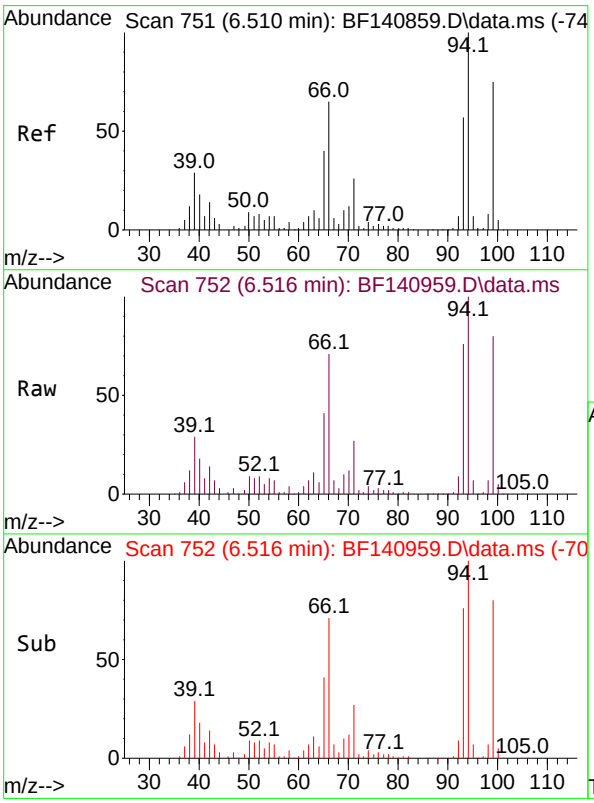
#9
Benzaldehyde
Concen: 40.271 ng
RT: 6.410 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 118899

Ion	Ratio	Lower	Upper
77	100		
105	98.8	75.8	115.8
106	94.7	74.1	114.1

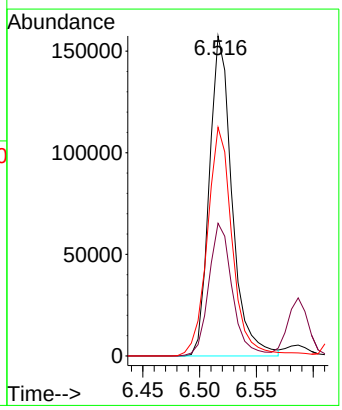


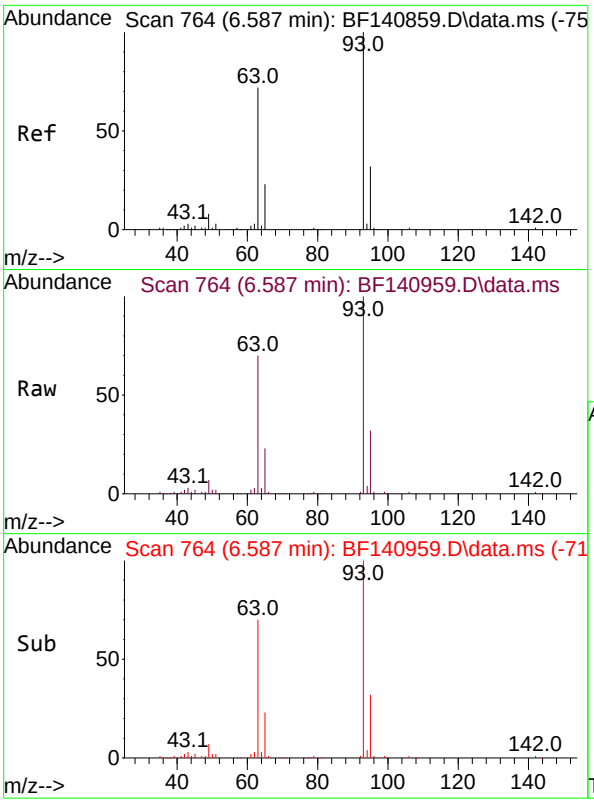


#10
Phenol
Concen: 39.635 ng
RT: 6.516 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 94 Resp: 218889

Ion	Ratio	Lower	Upper
94	100		
65	41.5	19.9	59.9
66	71.4	45.6	85.6



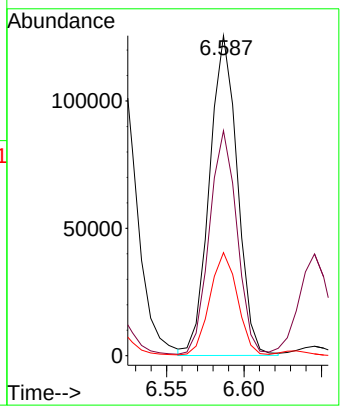


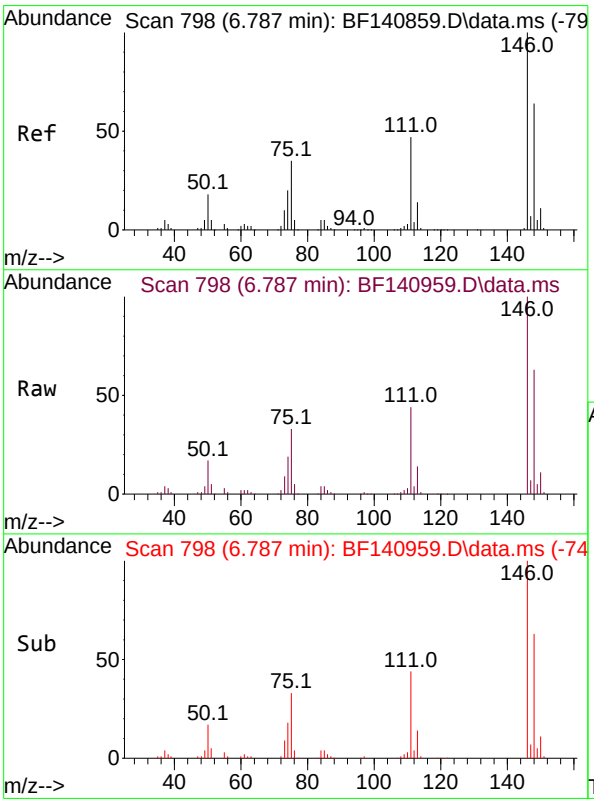
#11
bis(2-Chloroethyl)ether
Concen: 38.200 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 157329

Ion	Ratio	Lower	Upper
93	100		
63	70.3	51.0	91.0
95	32.2	12.0	52.0

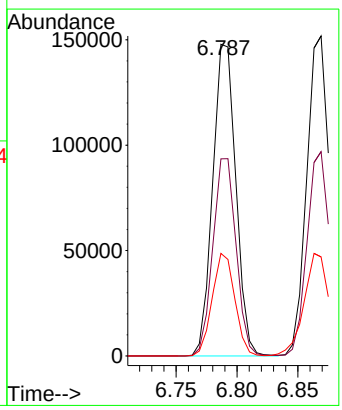


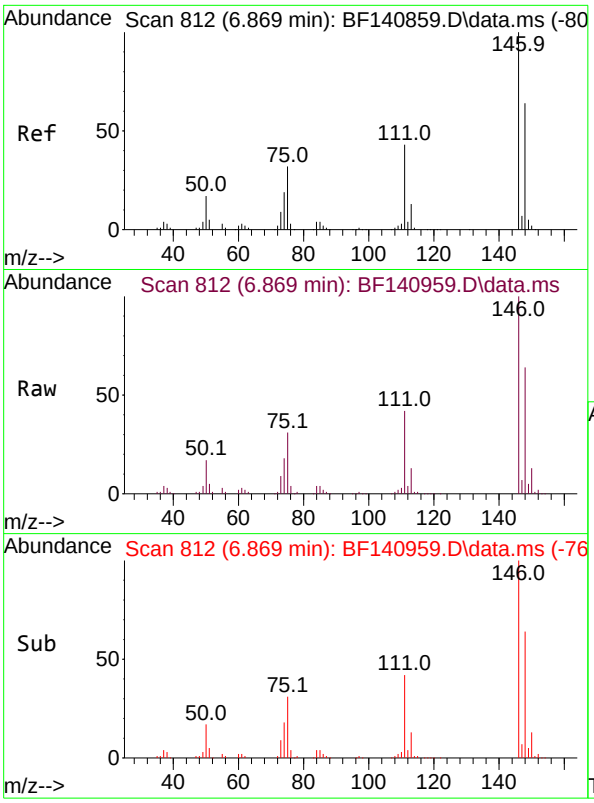


#12
1,3-Dichlorobenzene
Concen: 39.166 ng
RT: 6.787 min Scan# 798
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:146 Resp: 195796

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.6
75	32.9	28.1	42.1



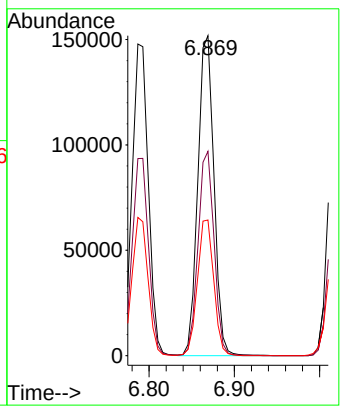


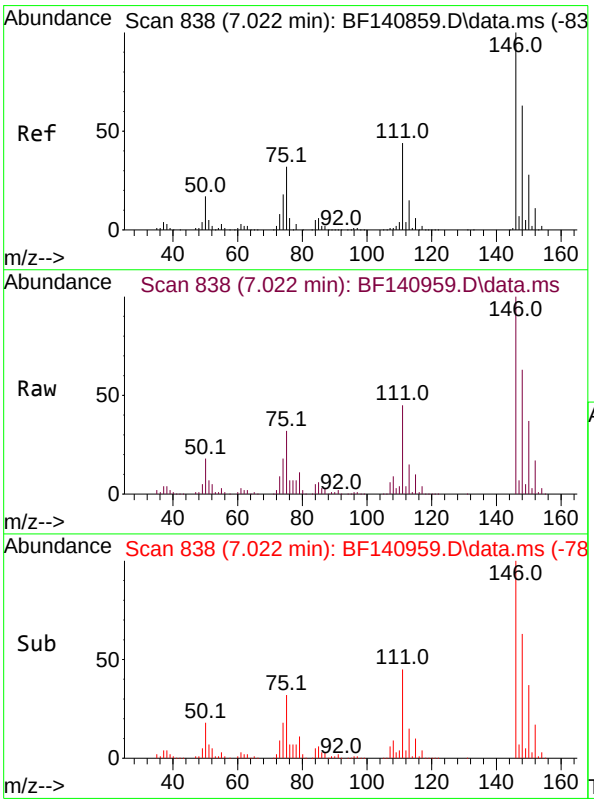
#13
1,4-Dichlorobenzene
Concen: 39.295 ng
RT: 6.869 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 199400

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.3	76.9
111	42.4	34.4	51.6

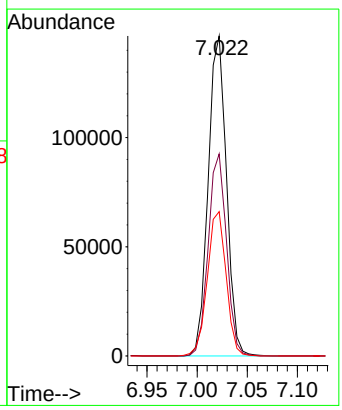


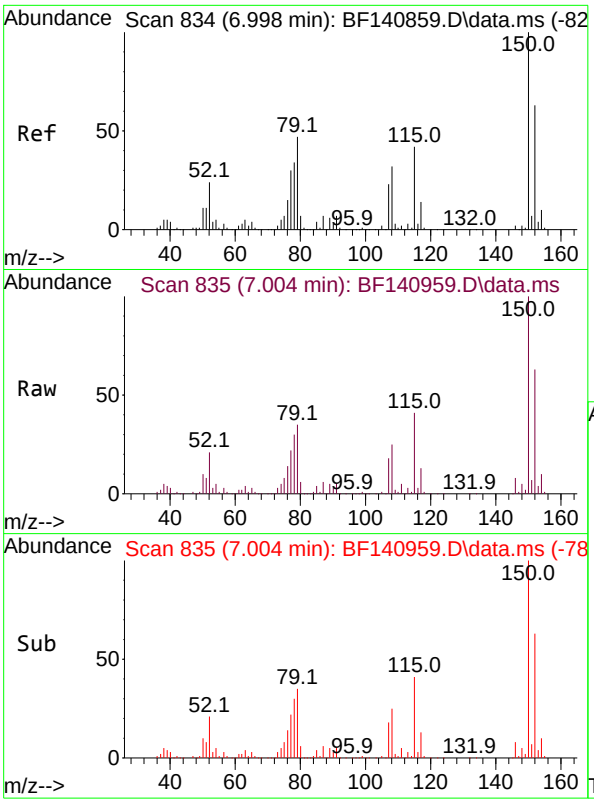


#14
1,2-Dichlorobenzene
Concen: 38.884 ng
RT: 7.022 min Scan# 838
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:146 Resp: 186168

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.0	75.0
111	45.1	35.6	53.4



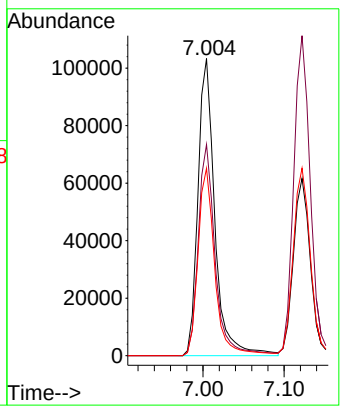


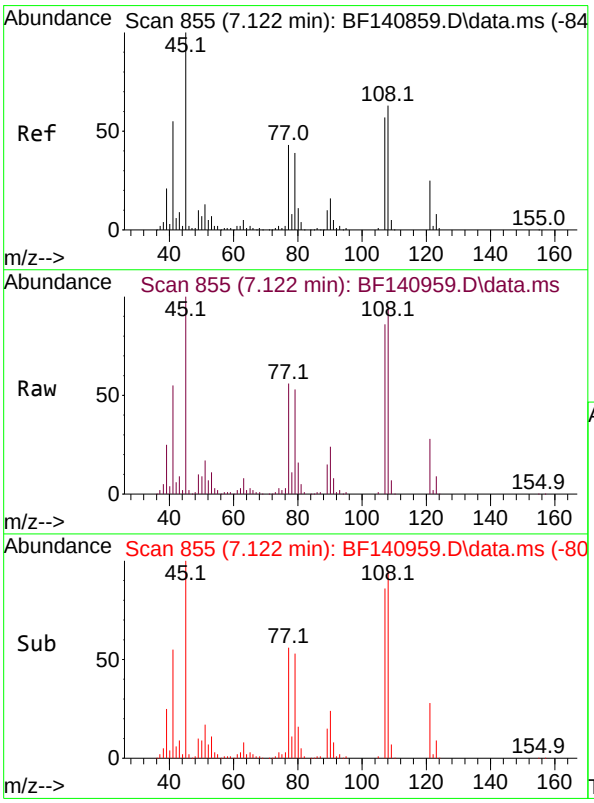
#15
Benzyl Alcohol
Concen: 39.242 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 149510

Ion	Ratio	Lower	Upper
79	100		
108	71.1	55.1	82.7
77	63.1	50.6	76.0

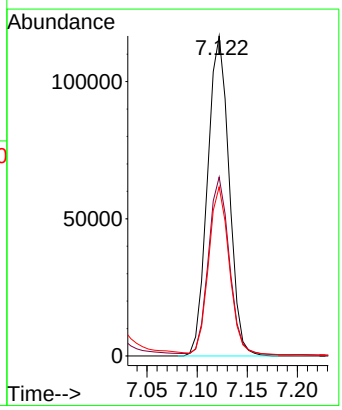


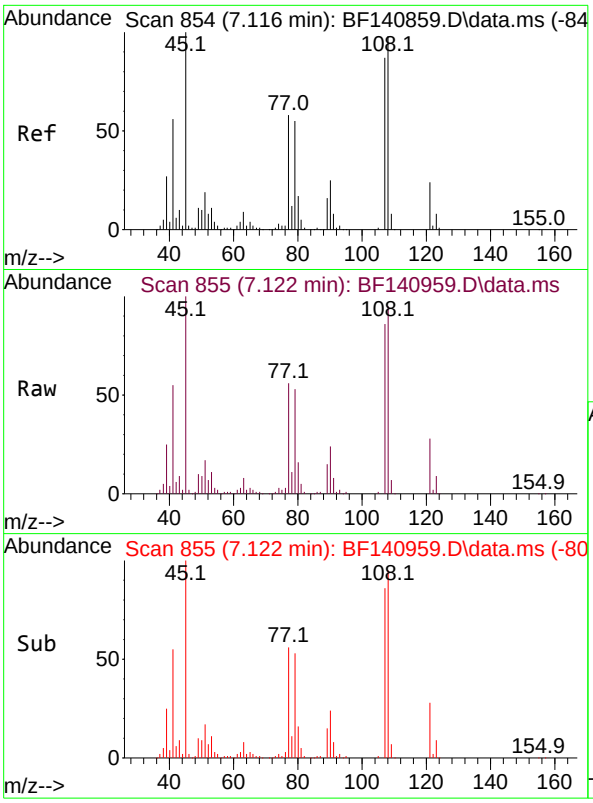


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.973 ng
RT: 7.122 min Scan# 855
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 45 Resp: 174534

Ion	Ratio	Lower	Upper
45	100		
77	55.9	23.3	63.3
79	52.9	20.0	60.0



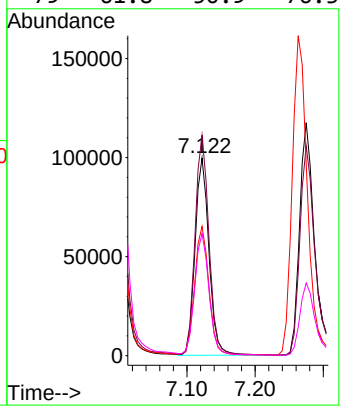


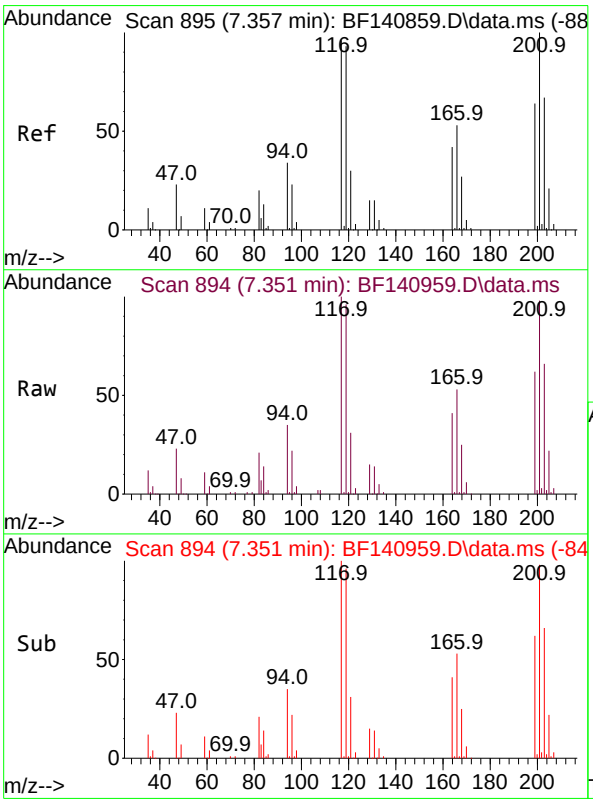
#17
2-Methylphenol
Concen: 40.286 ng
RT: 7.122 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 141105

Ion	Ratio	Lower	Upper
107	100		
108	111.6	90.2	135.4
77	65.4	53.8	80.6
79	61.8	50.9	76.3

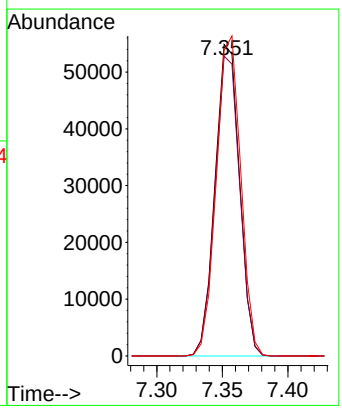


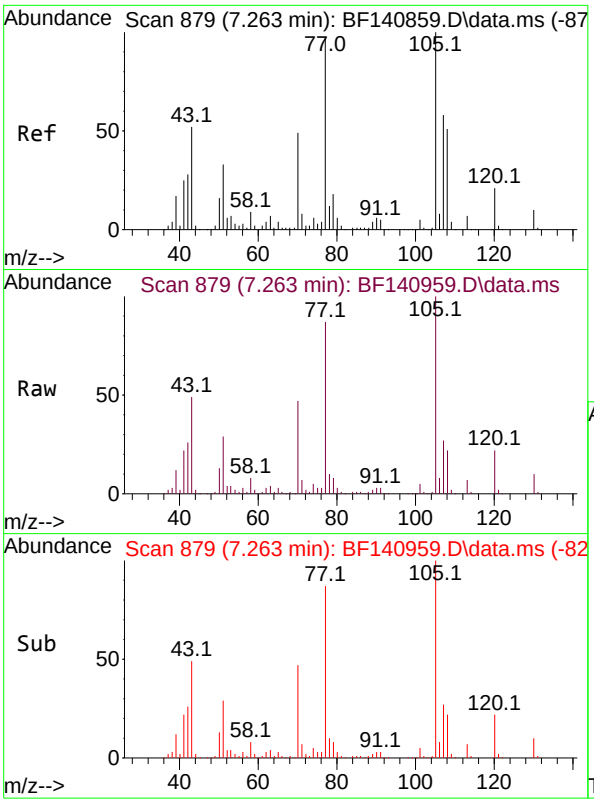


#18
Hexachloroethane
Concen: 37.728 ng
RT: 7.351 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:117 Resp: 71272

Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.4	116.0
201	98.0	83.4	125.0



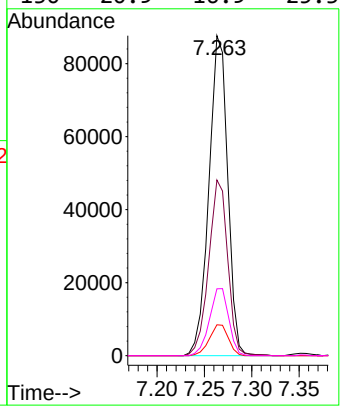


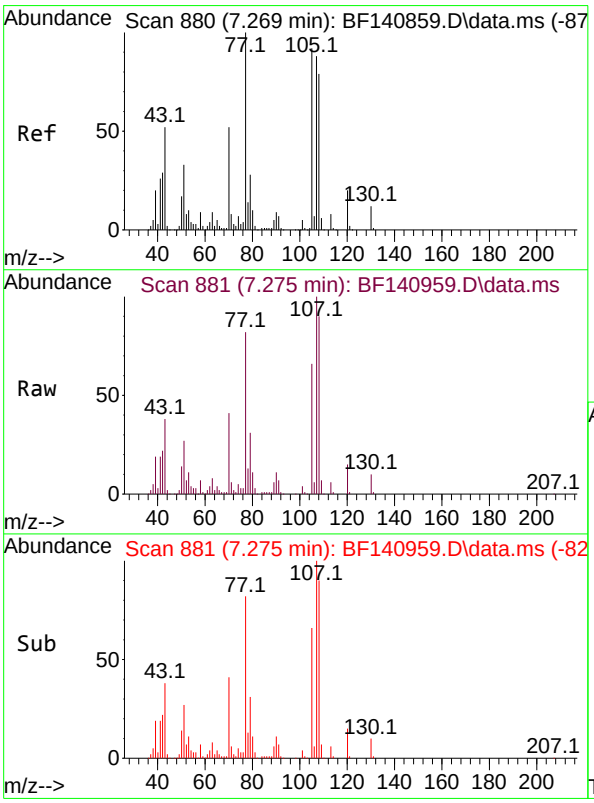
#19
n-Nitroso-di-n-propylamine
Concen: 37.915 ng
RT: 7.263 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 121188

Ion	Ratio	Lower	Upper
70	100		
42	54.9	45.3	67.9
101	9.7	8.0	12.0
130	20.9	16.9	25.3

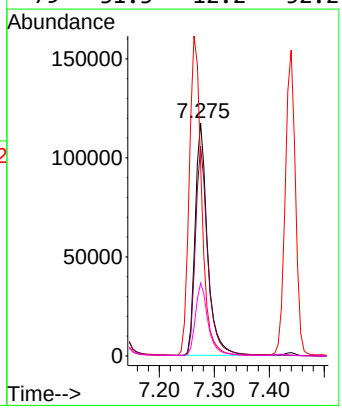


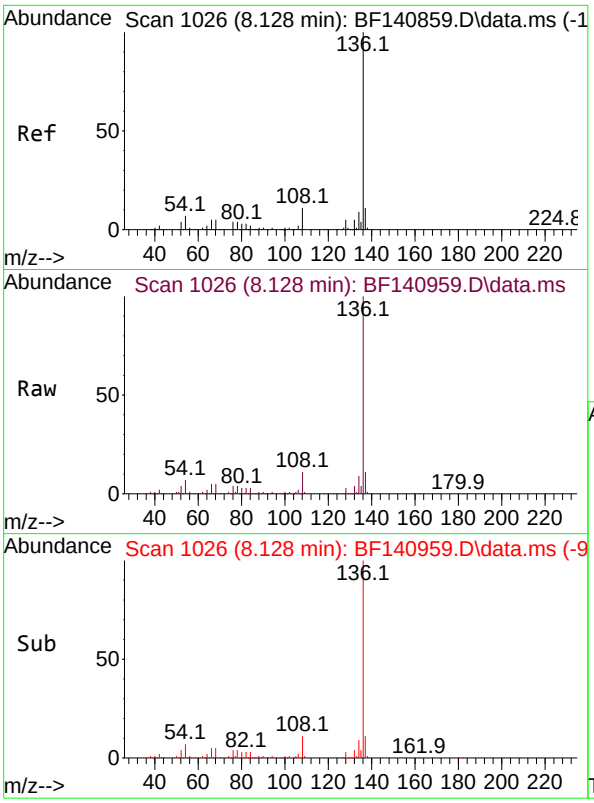


#20
3+4-Methylphenols
Concen: 39.472 ng
RT: 7.275 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:107 Resp: 183332

Ion	Ratio	Lower	Upper
107	100		
108	90.1	70.1	110.1
77	82.2	94.4	134.4#
79	31.3	12.2	52.2



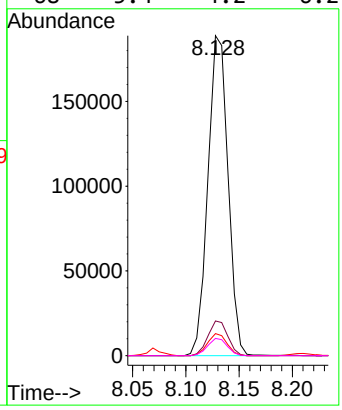


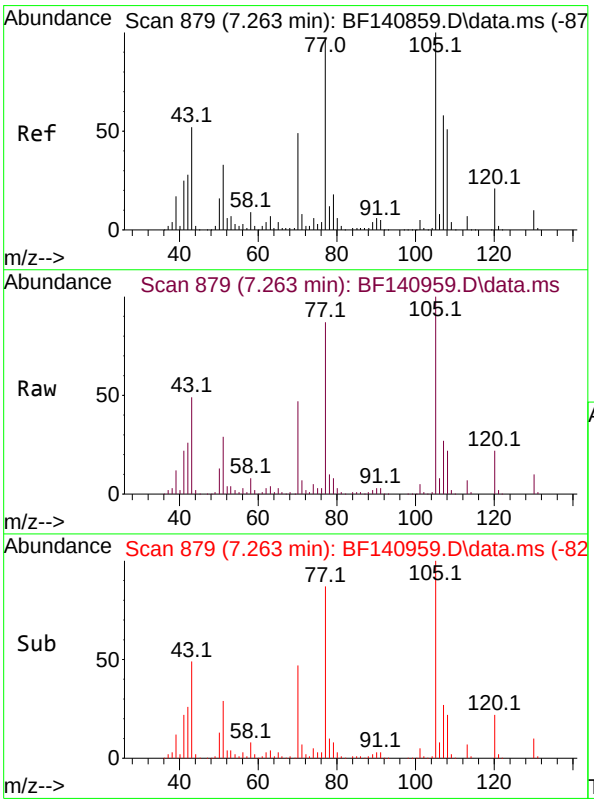
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 248513

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	6.9	5.6	8.4
68	5.4	4.2	6.2

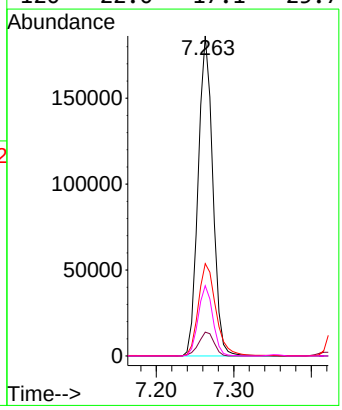


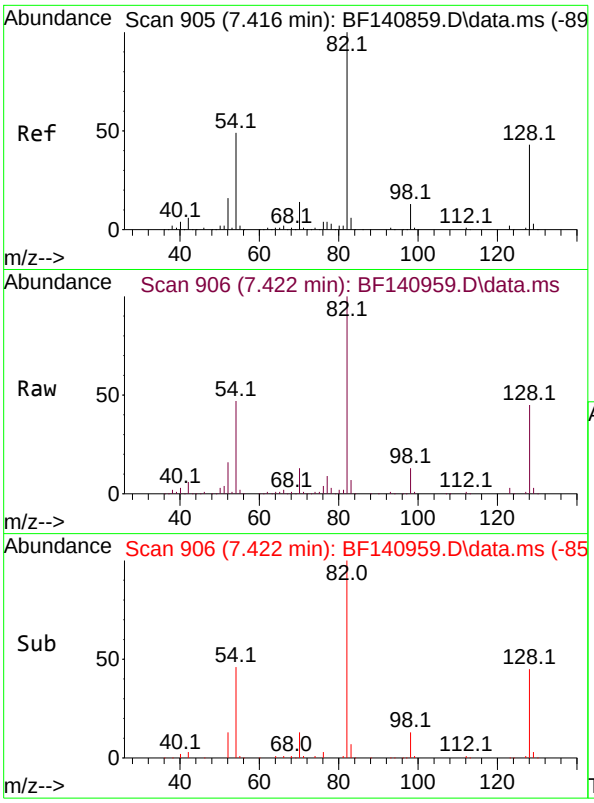


#22
Acetophenone
Concen: 39.304 ng
RT: 7.263 min Scan# 879
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:105 Resp: 244338

Ion	Ratio	Lower	Upper
105	100		
71	7.4	6.2	9.4
51	28.9	26.3	39.5
120	22.0	17.1	25.7



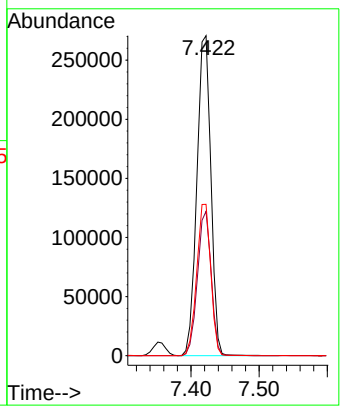


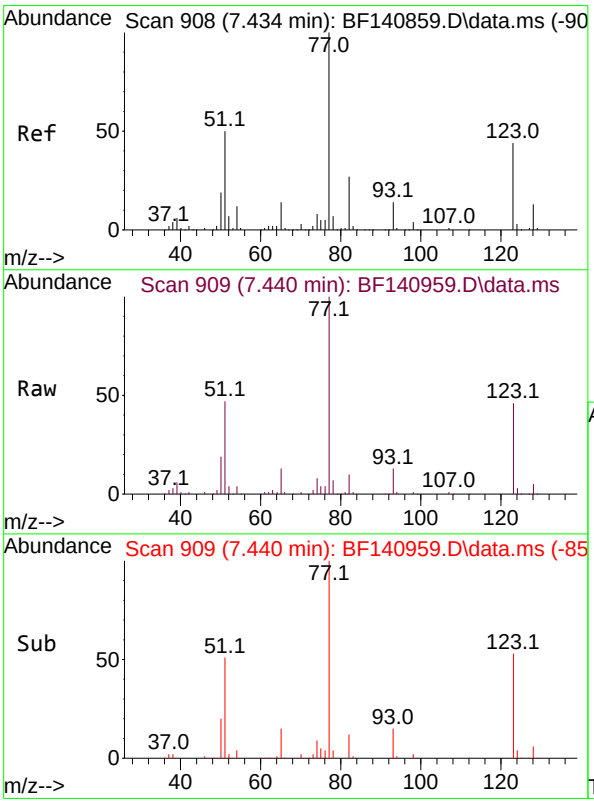
#23
Nitrobenzene-d5
Concen: 77.801 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 386452

Ion	Ratio	Lower	Upper
82	100		
128	45.1	34.4	51.6
54	47.3	38.8	58.2

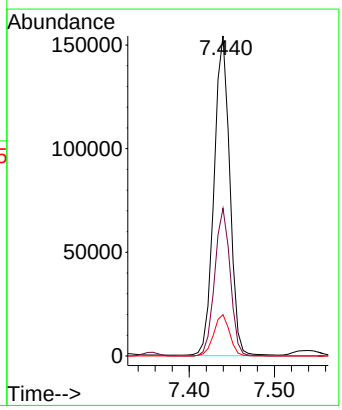


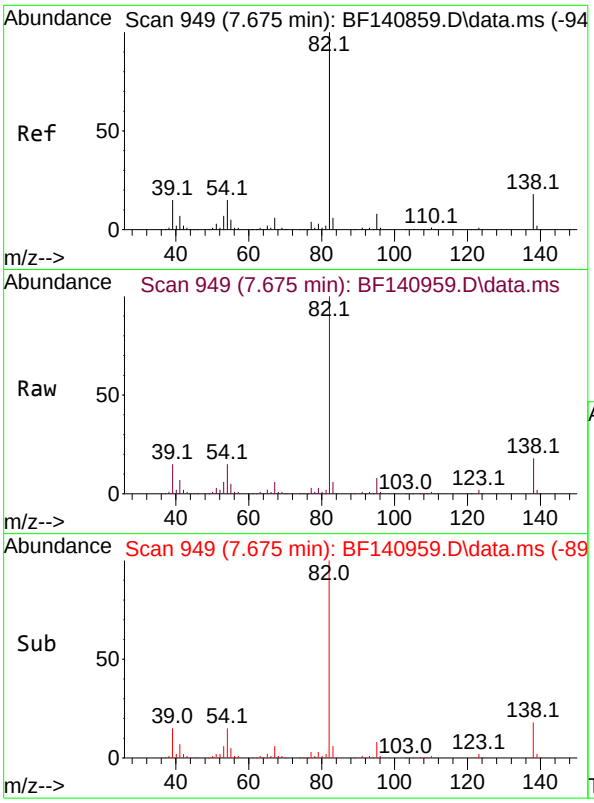


#24
Nitrobenzene
Concen: 39.061 ng
RT: 7.440 min Scan# 909
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 77 Resp: 198770

Ion	Ratio	Lower	Upper
77	100		
123	46.2	35.0	52.4
65	12.9	11.4	17.0



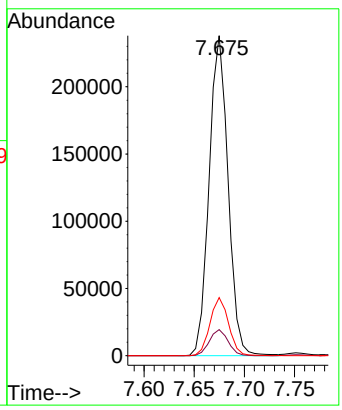


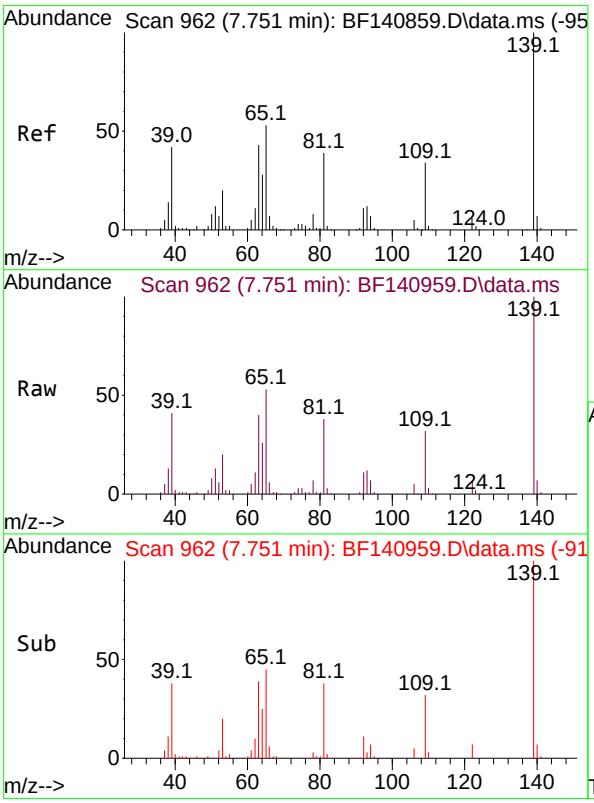
#25
Isophorone
Concen: 37.629 ng
RT: 7.675 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 313176

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.3	9.5
138	18.2	14.1	21.1

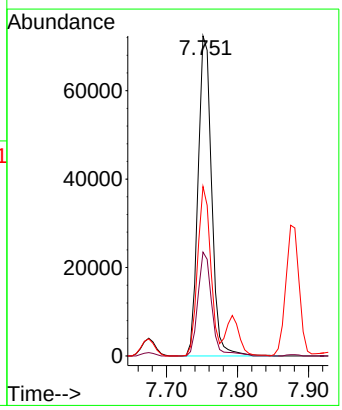


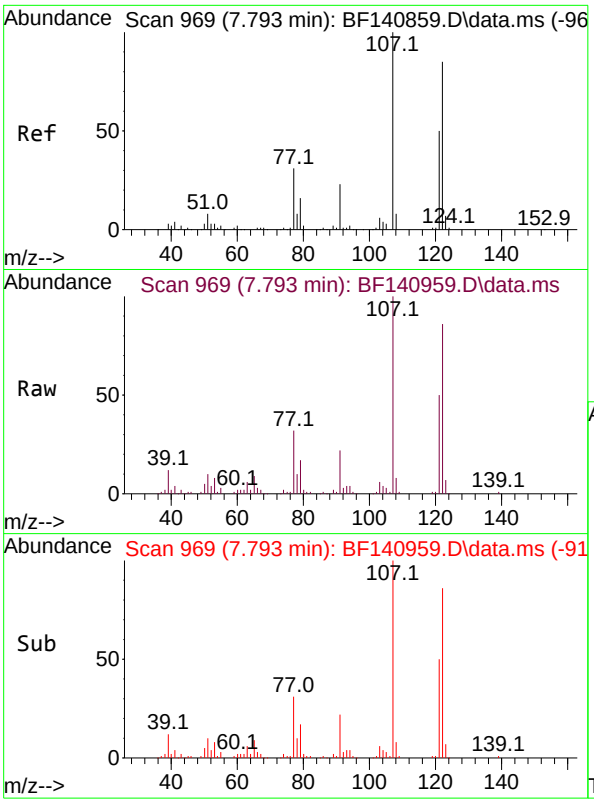


#26
2-Nitrophenol
Concen: 41.138 ng
RT: 7.751 min Scan# 962
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:139 Resp: 96414

Ion	Ratio	Lower	Upper
139	100		
109	32.4	26.9	40.3
65	53.0	42.6	64.0



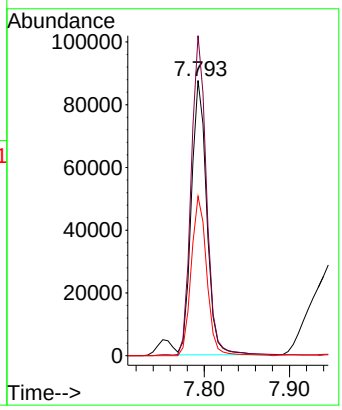


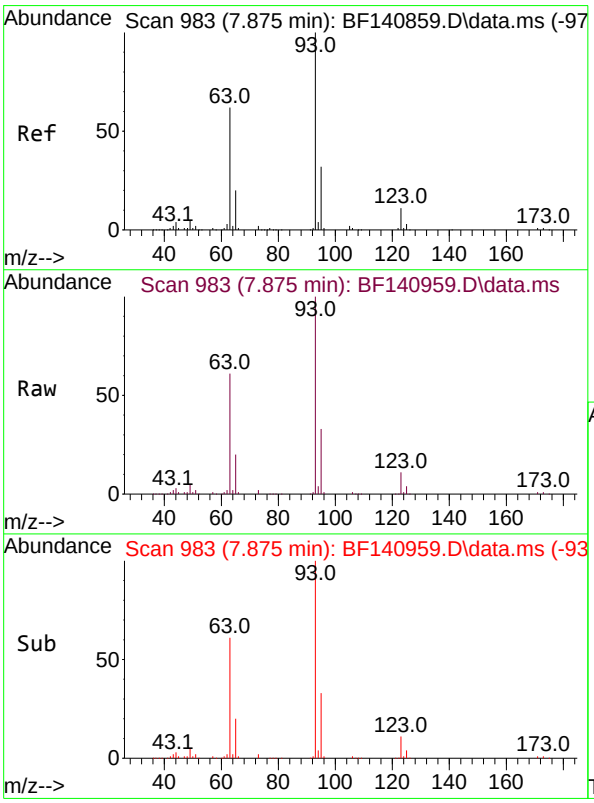
#27
2,4-Dimethylphenol
Concen: 40.022 ng
RT: 7.793 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 109542

Ion	Ratio	Lower	Upper
122	100		
107	116.3	92.6	139.0
121	57.9	45.8	68.8

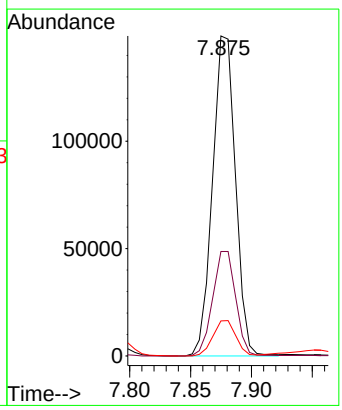


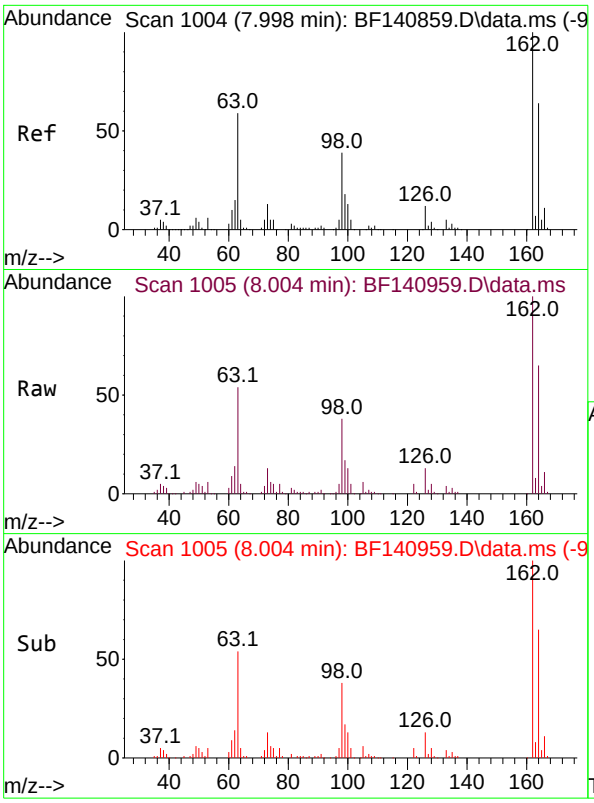


#28
bis(2-Chloroethoxy)methane
Concen: 37.572 ng
RT: 7.875 min Scan# 983
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 93 Resp: 195305

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.3	37.9
123	10.9	8.6	13.0



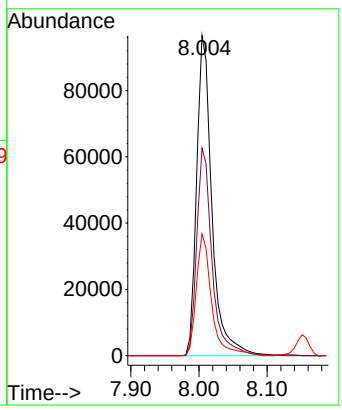


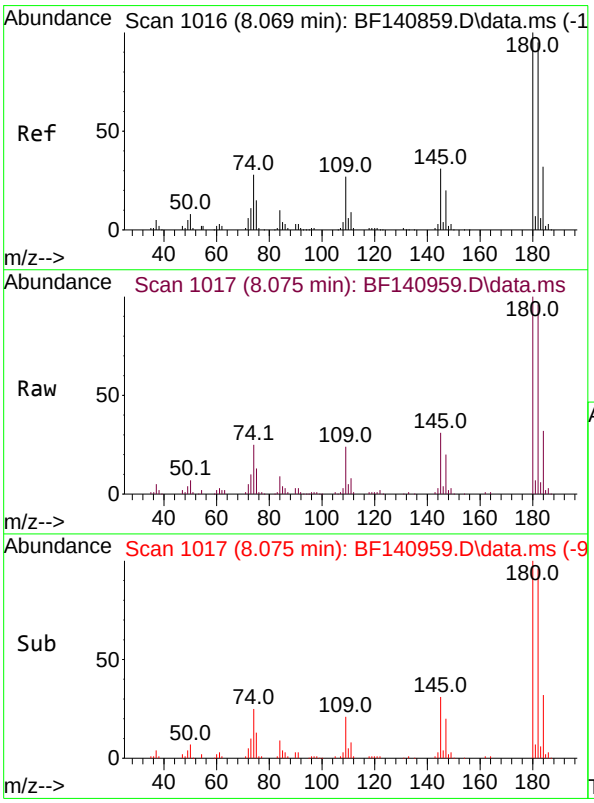
#29
2,4-Dichlorophenol
Concen: 39.755 ng
RT: 8.004 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 150227

Ion	Ratio	Lower	Upper
162	100		
164	64.8	43.7	83.7
98	38.1	18.6	58.6

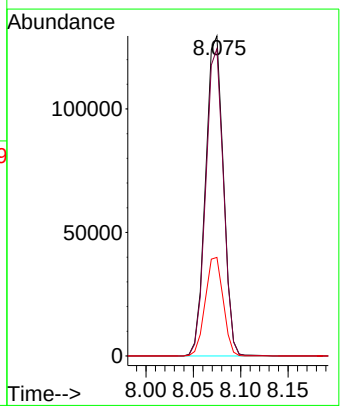


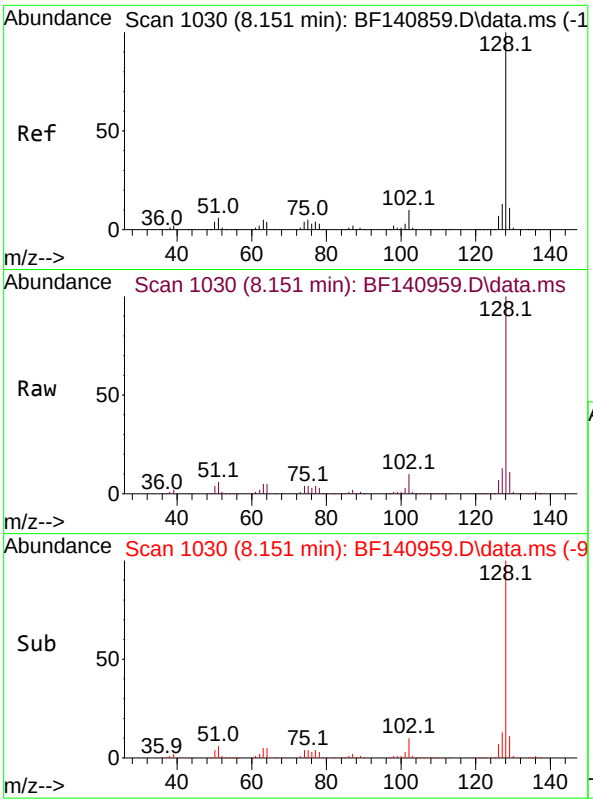


#30
1,2,4-Trichlorobenzene
Concen: 39.012 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:180 Resp: 168994

Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.6
145	30.8	25.2	37.8



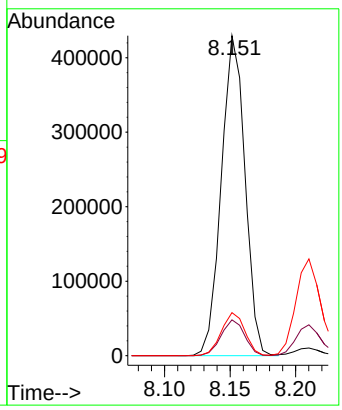


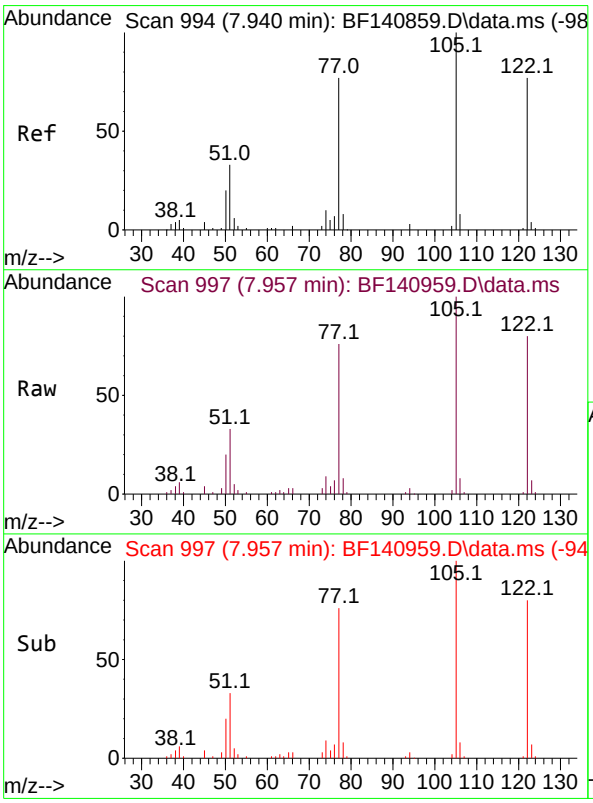
#31
Naphthalene
Concen: 39.547 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 539862

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.4	10.6	16.0

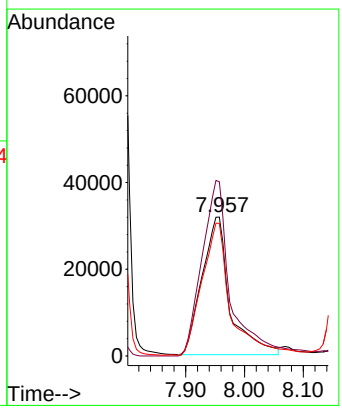


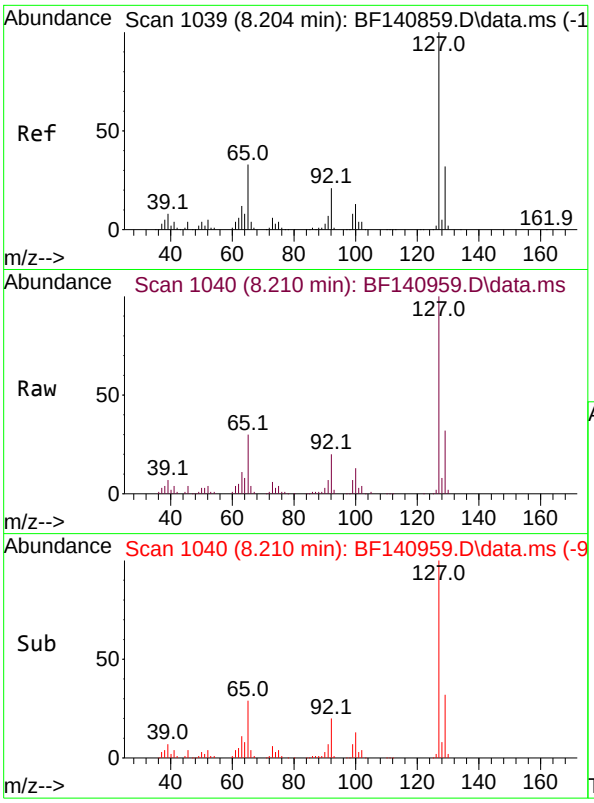


#32
Benzoic acid
Concen: 40.523 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.017 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:122 Resp: 105192

Ion	Ratio	Lower	Upper
122	100		
105	125.4	108.3	148.3
77	95.4	78.8	118.8



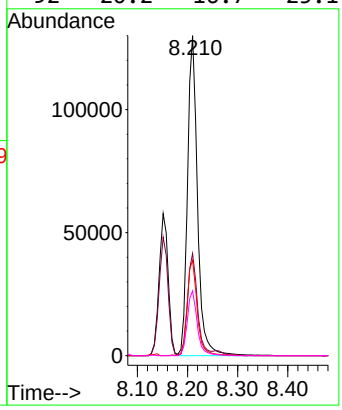


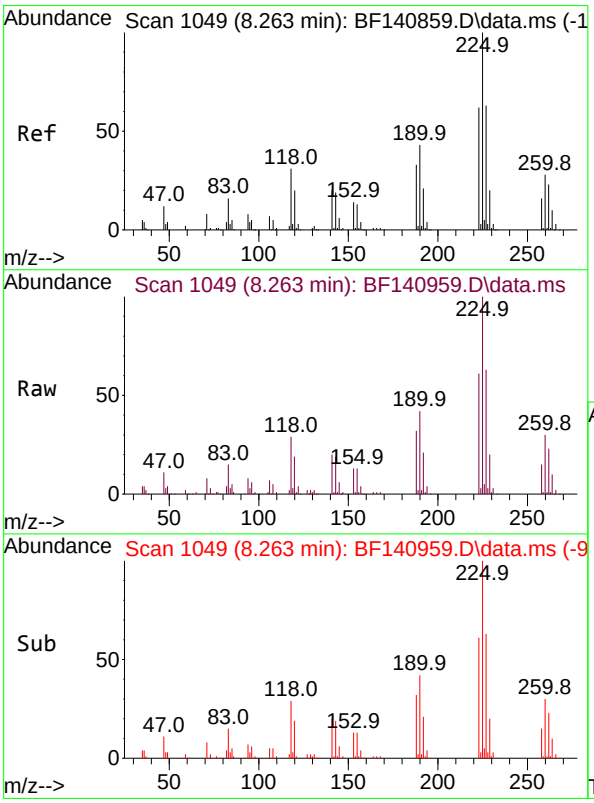
#33
4-Chloroaniline
Concen: 39.864 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 180741

Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.0	39.0
65	29.8	26.0	39.0
92	20.2	16.7	25.1

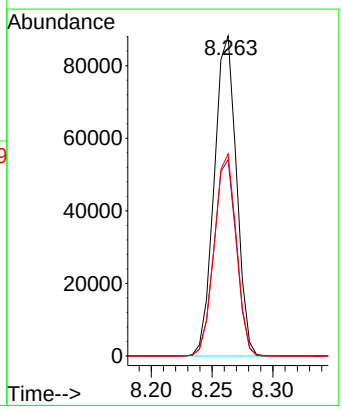


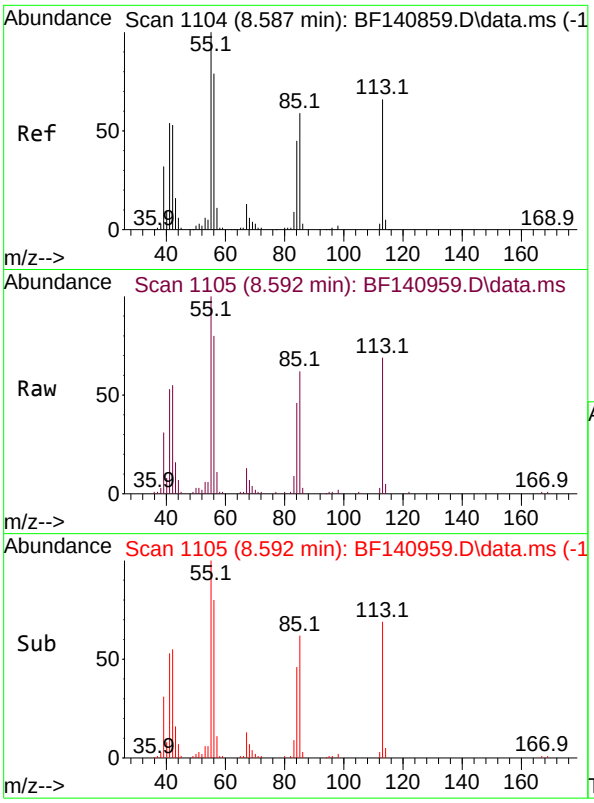


#34
Hexachlorobutadiene
Concen: 38.453 ng
RT: 8.263 min Scan# 1049
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:225 Resp: 112071

Ion	Ratio	Lower	Upper
225	100		
223	61.3	49.6	74.4
227	63.2	50.7	76.1



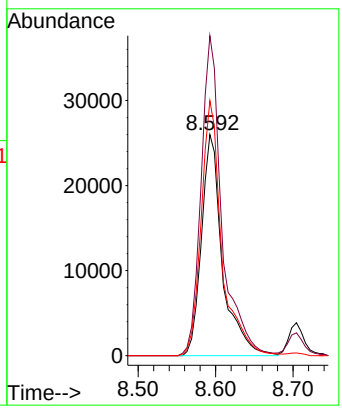


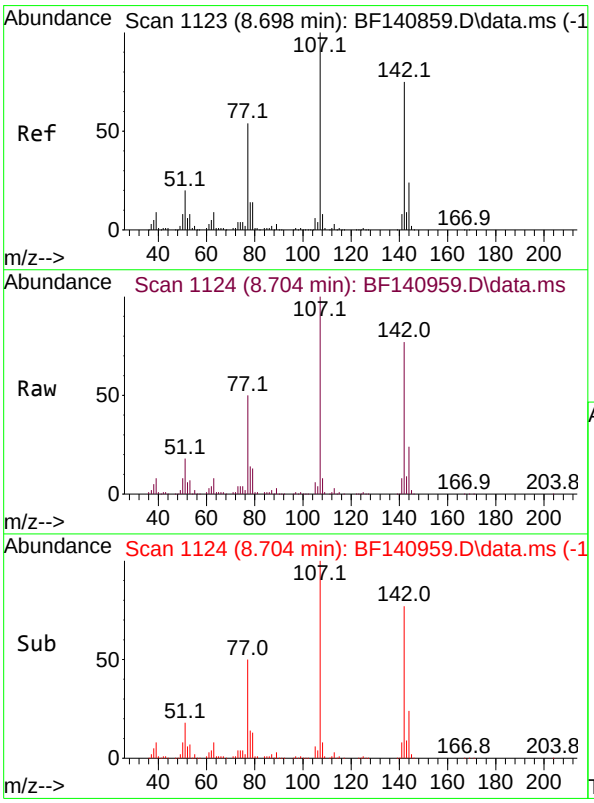
#35
Caprolactam
Concen: 43.322 ng
RT: 8.592 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 48736

Ion	Ratio	Lower	Upper
113	100		
55	144.7	132.3	172.3
56	115.3	100.3	140.3

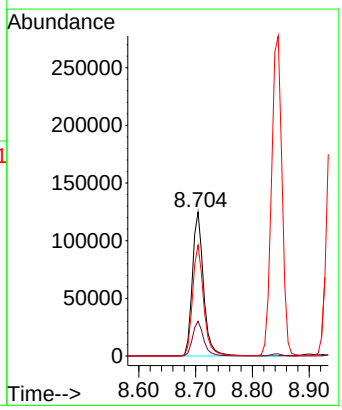


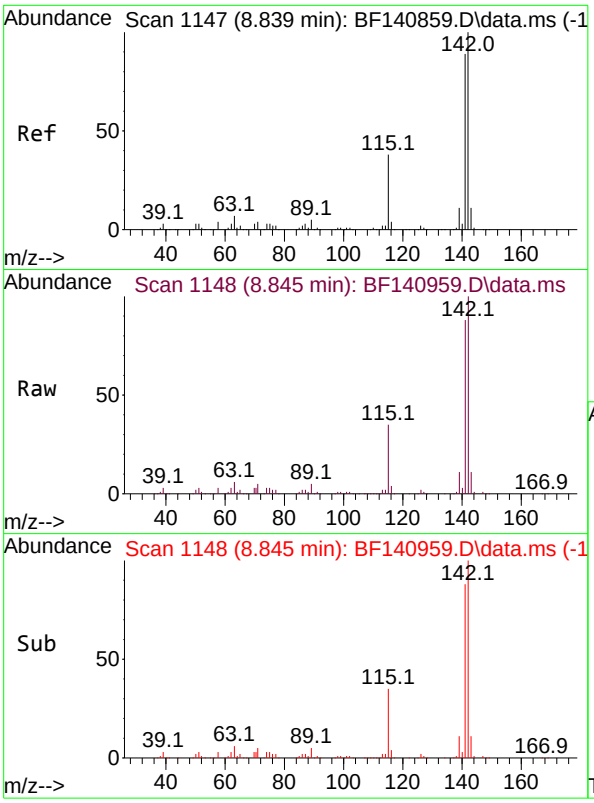


#36
4-Chloro-3-methylphenol
Concen: 40.286 ng
RT: 8.704 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:107 Resp: 171340

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.4	29.2
142	77.1	60.3	90.5



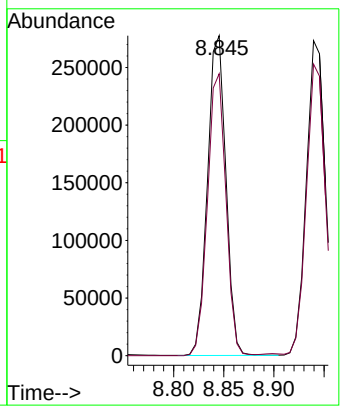


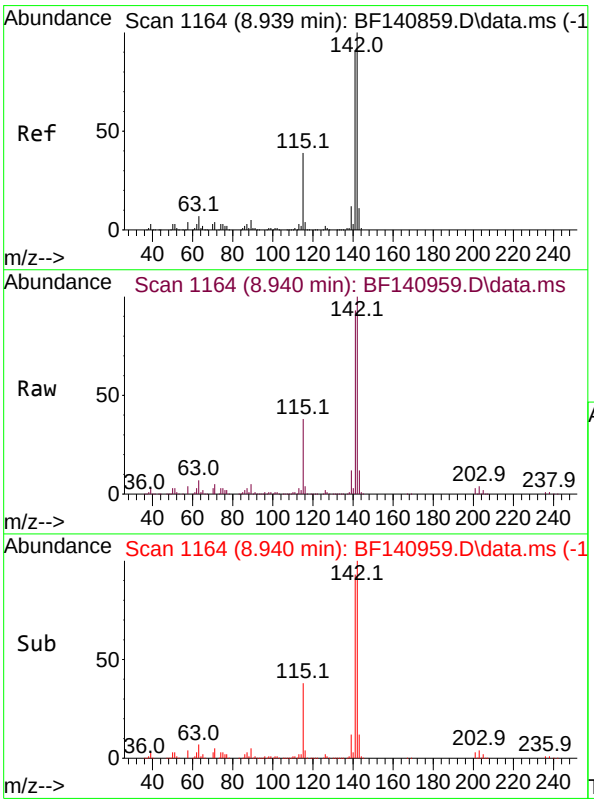
#37
2-Methylnaphthalene
Concen: 39.272 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 354629

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.0	106.6

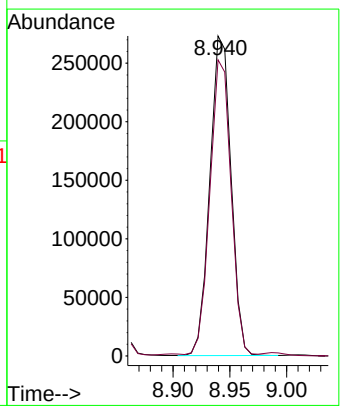


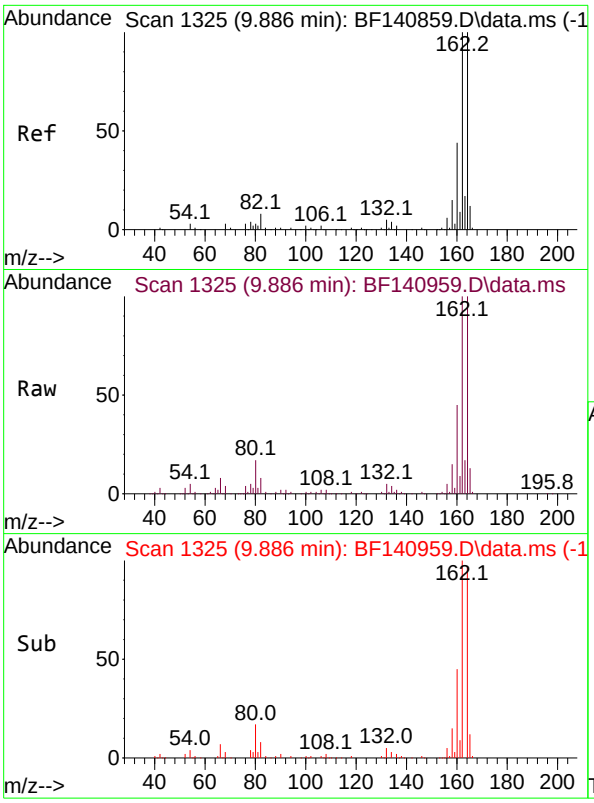


#38
1-Methylnaphthalene
Concen: 39.588 ng
RT: 8.940 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:142 Resp: 353547

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.4	110.0



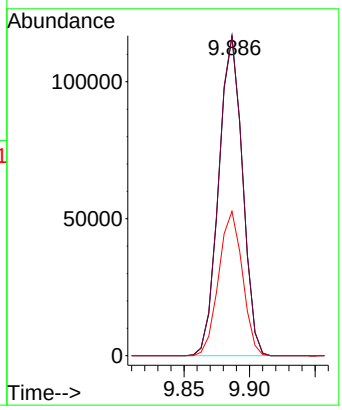


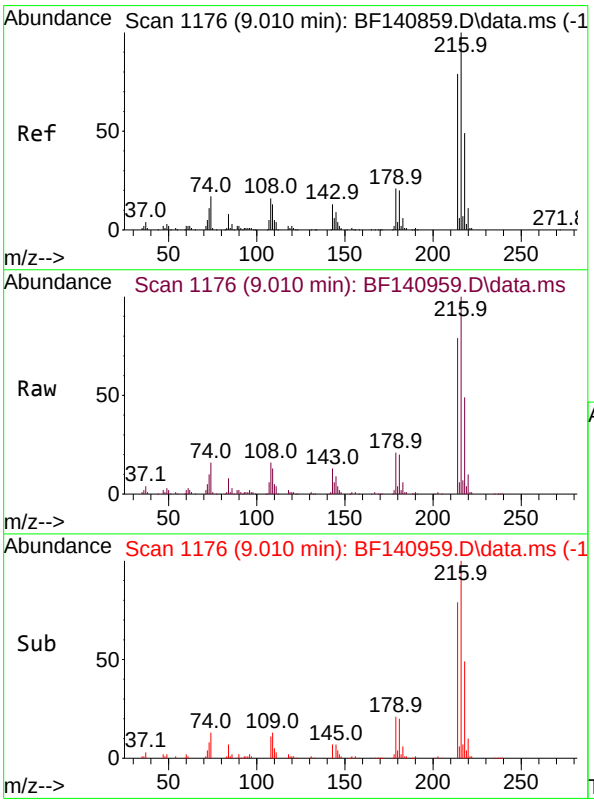
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 146137

Ion	Ratio	Lower	Upper
164	100		
162	100.3	79.9	119.9
160	45.3	35.2	52.8

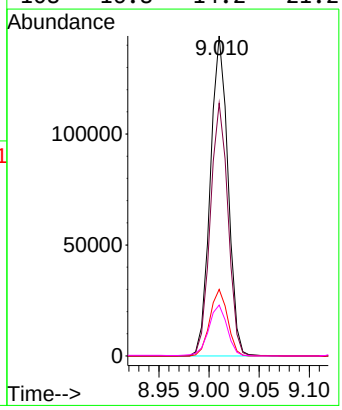


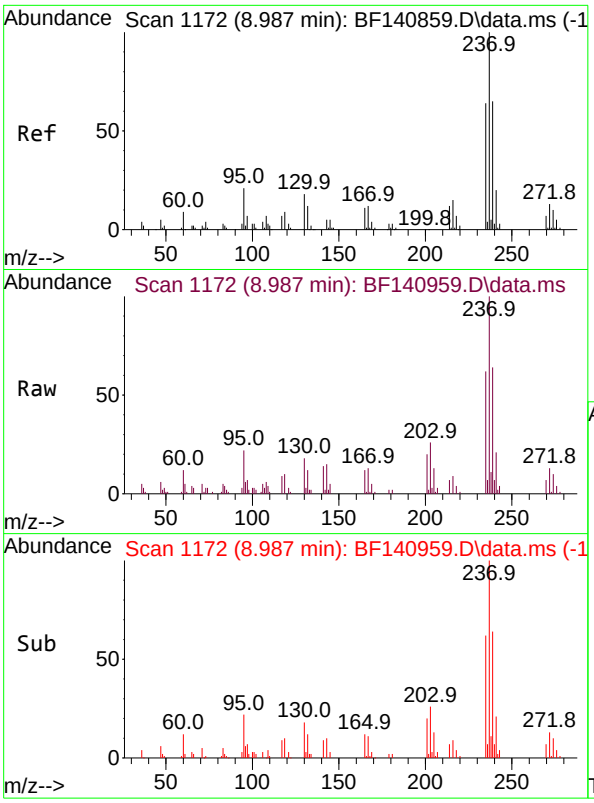


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.312 ng
RT: 9.010 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:216 Resp: 176578

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.6	95.4
179	20.8	17.0	25.4
108	16.8	14.2	21.2



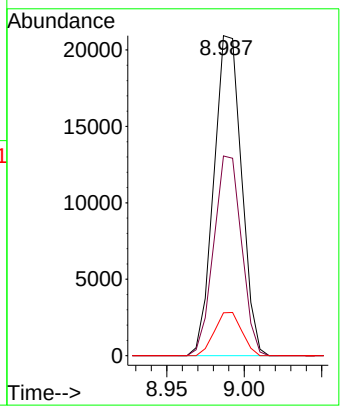


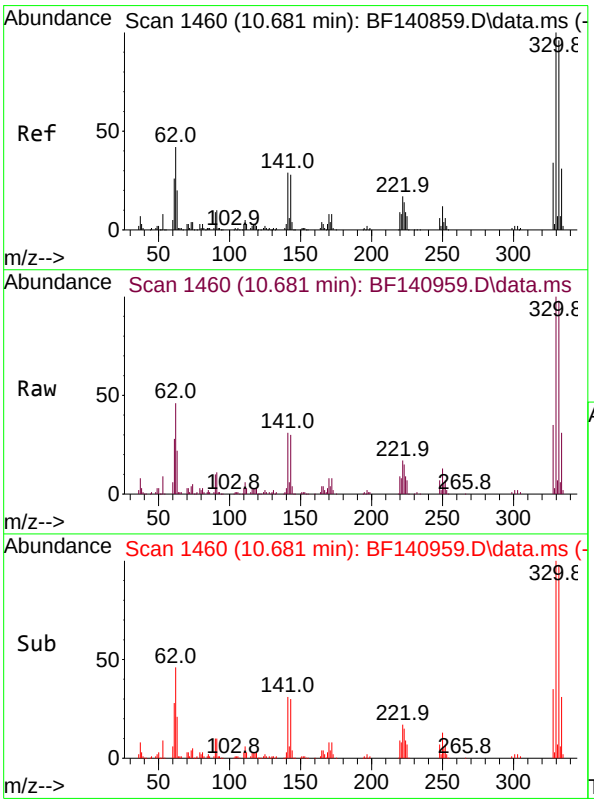
#41
Hexachlorocyclopentadiene
Concen: 28.674 ng
RT: 8.987 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 26032

Ion	Ratio	Lower	Upper
237	100		
235	62.4	43.7	83.7
272	13.4	0.0	32.9

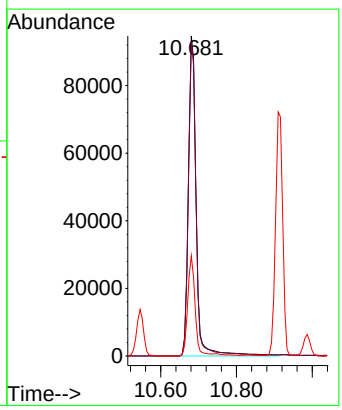


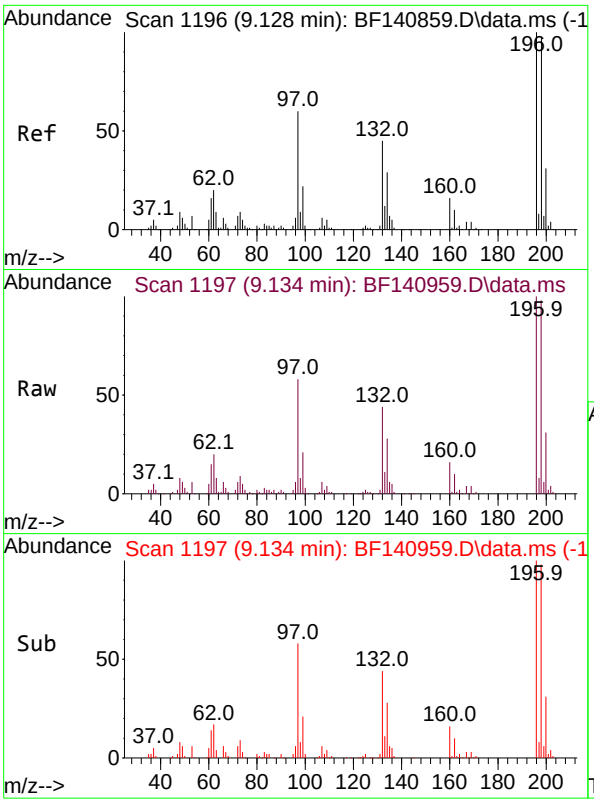


#42
2,4,6-Tribromophenol
Concen: 78.522 ng
RT: 10.681 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:330 Resp: 135717

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.2	114.4
141	29.0	24.9	37.3



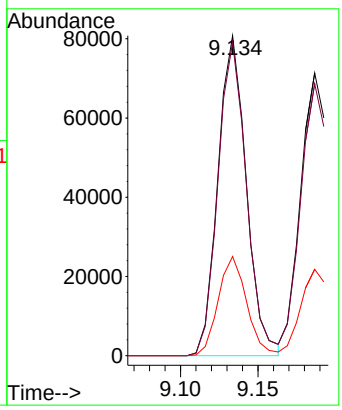


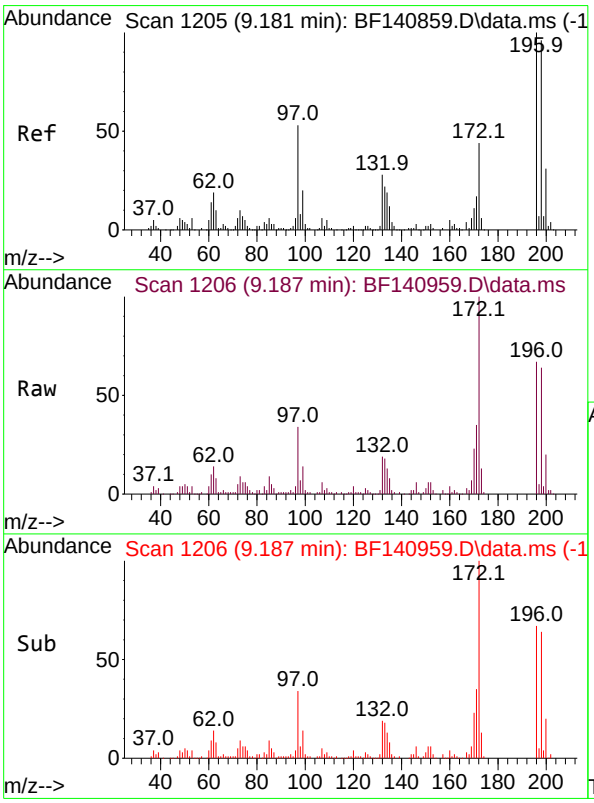
#43
2,4,6-Trichlorophenol
Concen: 37.469 ng
RT: 9.134 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 103055

Ion	Ratio	Lower	Upper
196	100		
198	98.0	77.4	116.0
200	31.0	24.5	36.7

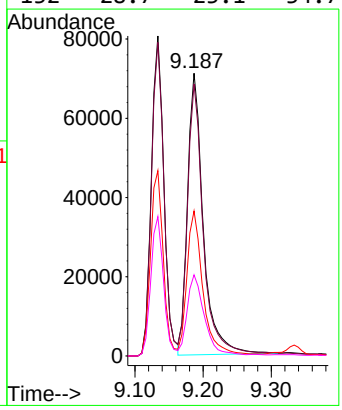


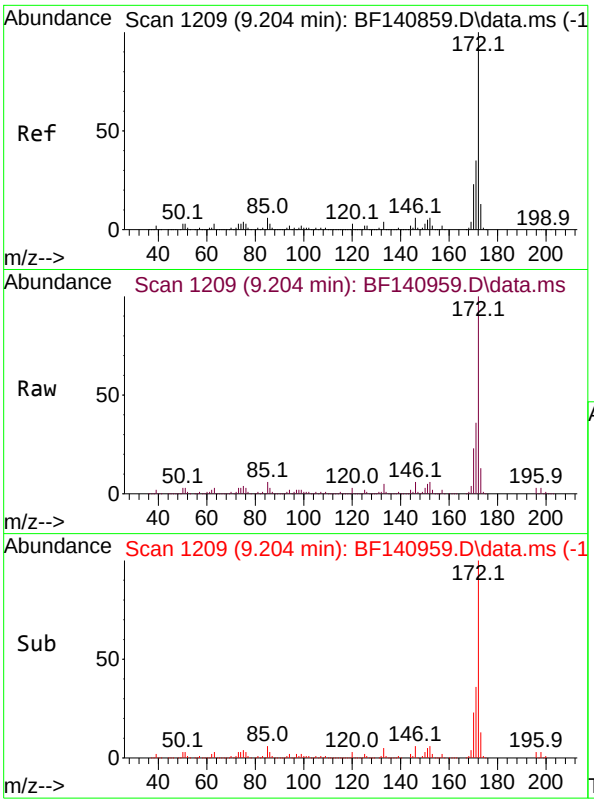


#44
2,4,5-Trichlorophenol
Concen: 37.641 ng
RT: 9.187 min Scan# 1206
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:196 Resp: 113791

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.2	115.8
97	51.3	42.2	63.4
132	28.7	23.1	34.7



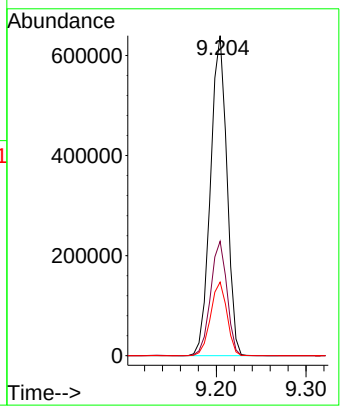


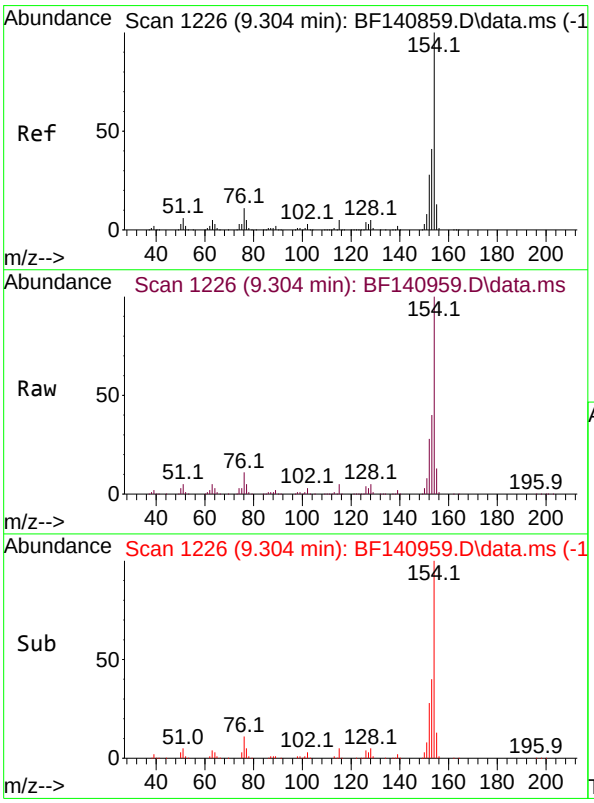
#45
2-Fluorobiphenyl
Concen: 76.352 ng
RT: 9.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 811564

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.4	42.6
170	23.0	18.6	28.0

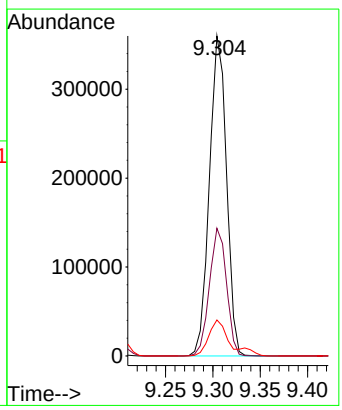


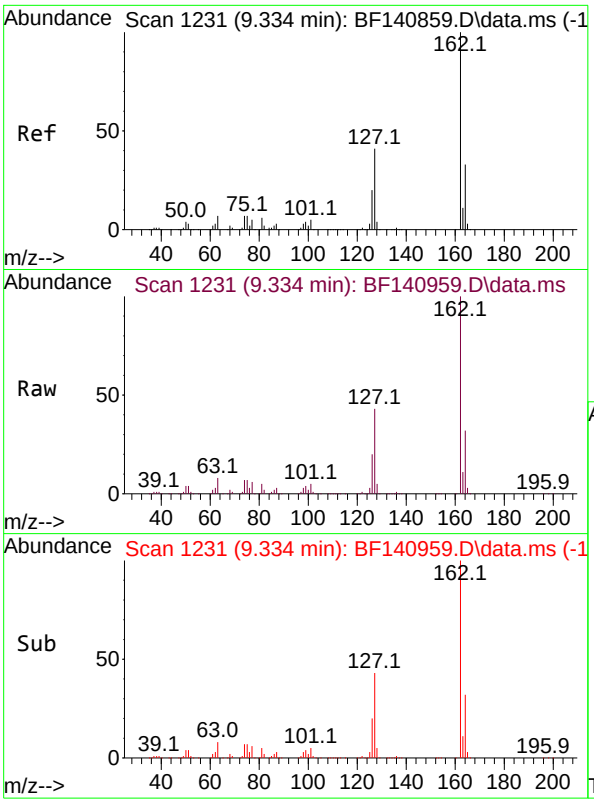


#46
1,1'-Biphenyl
Concen: 38.834 ng
RT: 9.304 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:154 Resp: 451267

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.8	60.8
76	11.2	0.0	31.0



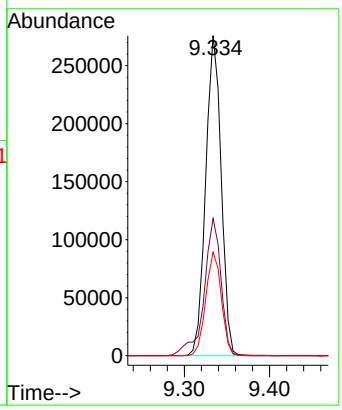


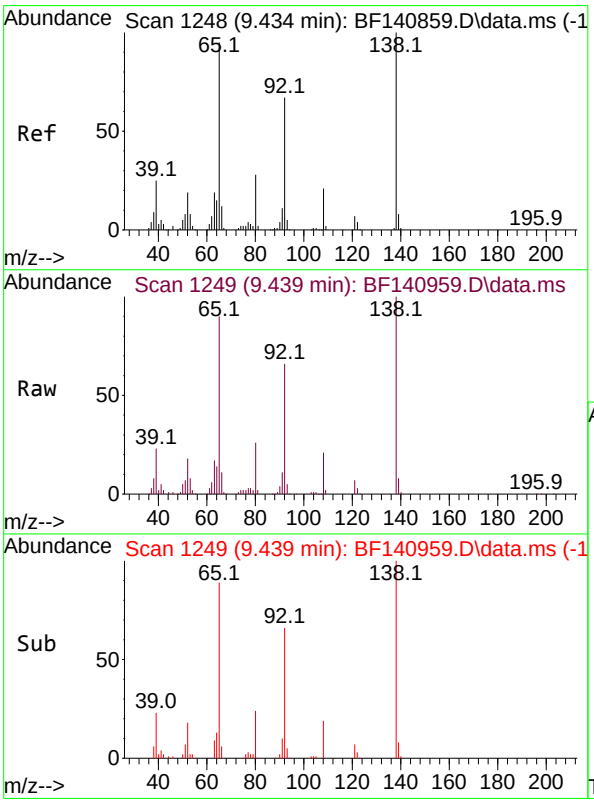
#47
2-Chloronaphthalene
Concen: 39.139 ng
RT: 9.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 347940

Ion	Ratio	Lower	Upper
162	100		
127	42.9	33.5	50.3
164	32.3	26.2	39.2

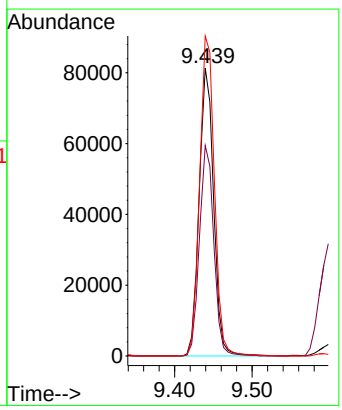


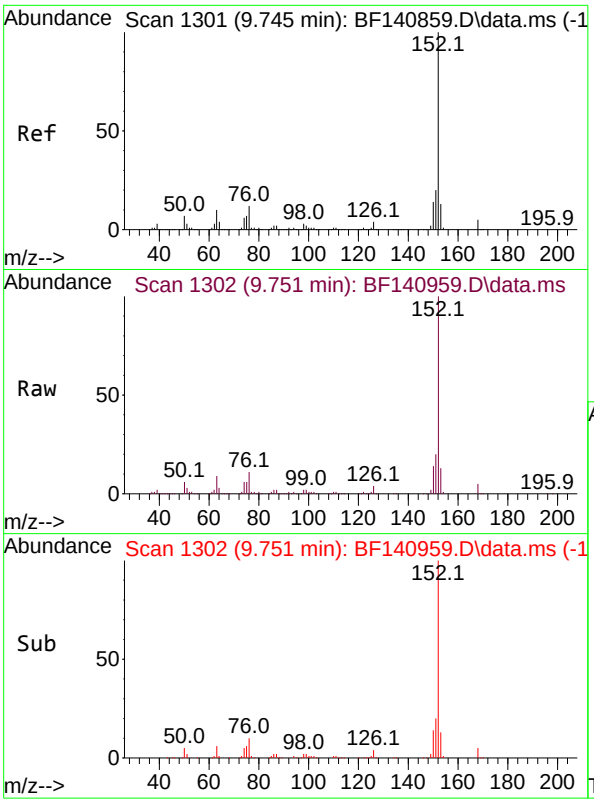


#48
2-Nitroaniline
Concen: 39.384 ng
RT: 9.439 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion: 65 Resp: 105740

Ion	Ratio	Lower	Upper
65	100		
92	73.0	56.3	84.5
138	111.1	83.8	125.6



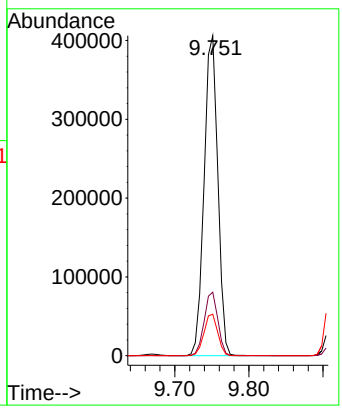


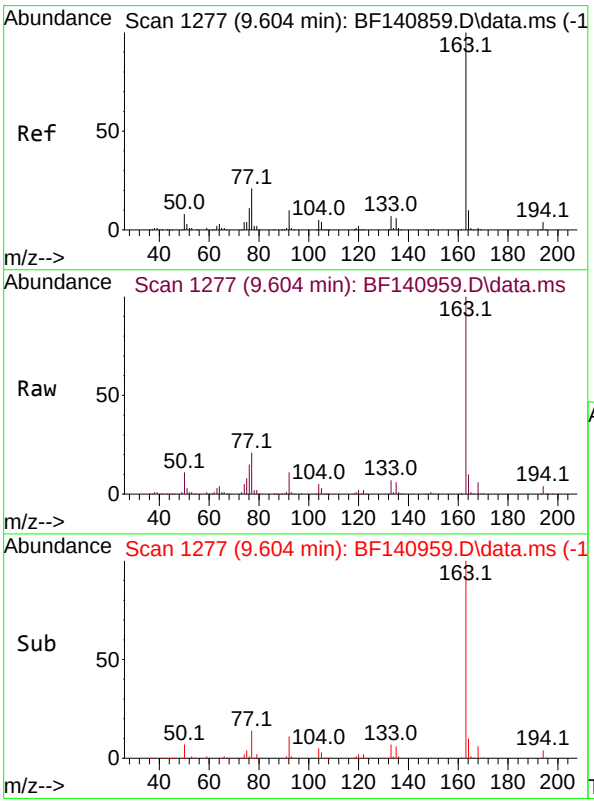
#49
Acenaphthylene
Concen: 40.003 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 522615

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.0	24.0
153	13.0	10.6	16.0

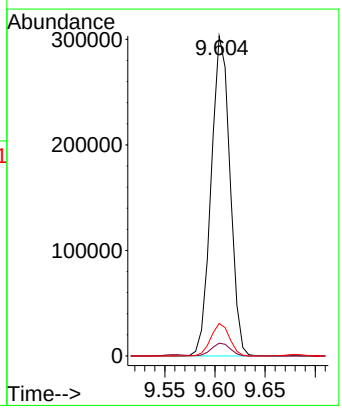


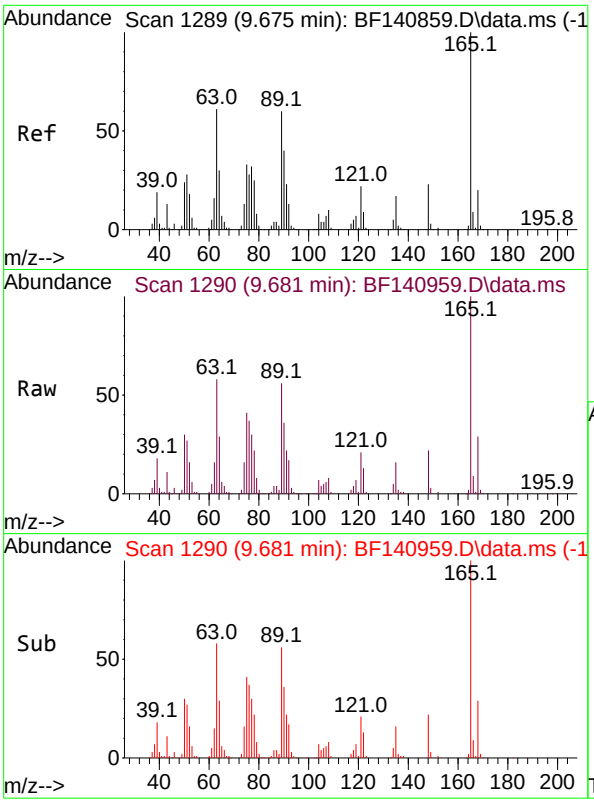


#50
Dimethylphthalate
Concen: 38.322 ng
RT: 9.604 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:163 Resp: 394835

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	8.1	12.1



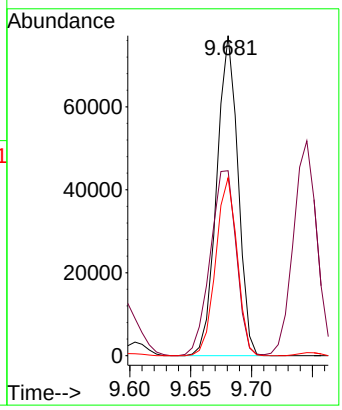


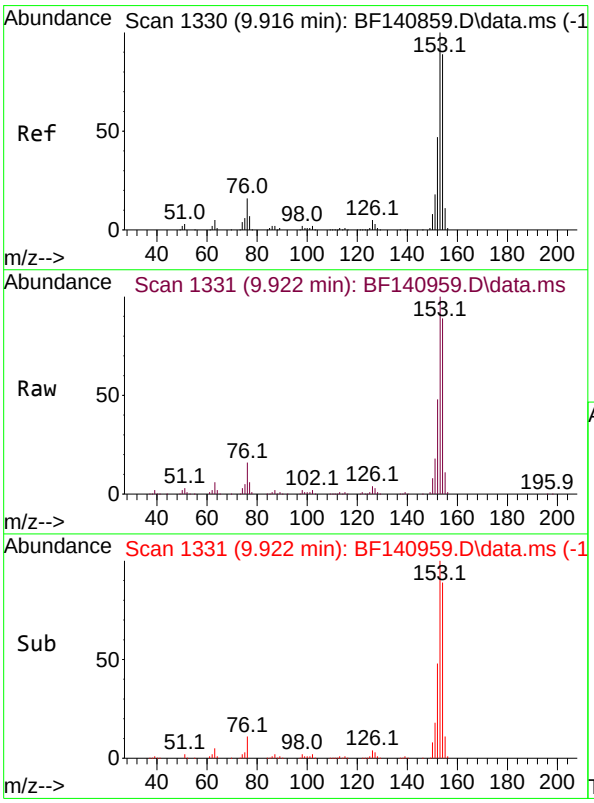
#51
2,6-Dinitrotoluene
Concen: 39.767 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 93666

Ion	Ratio	Lower	Upper
165	100		
63	57.8	49.7	74.5
89	55.6	48.2	72.4

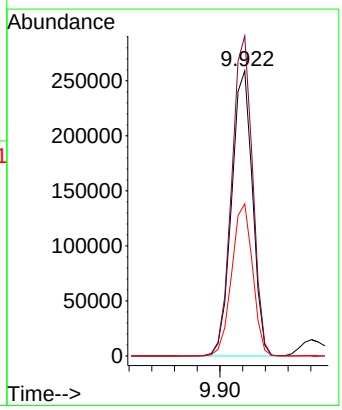


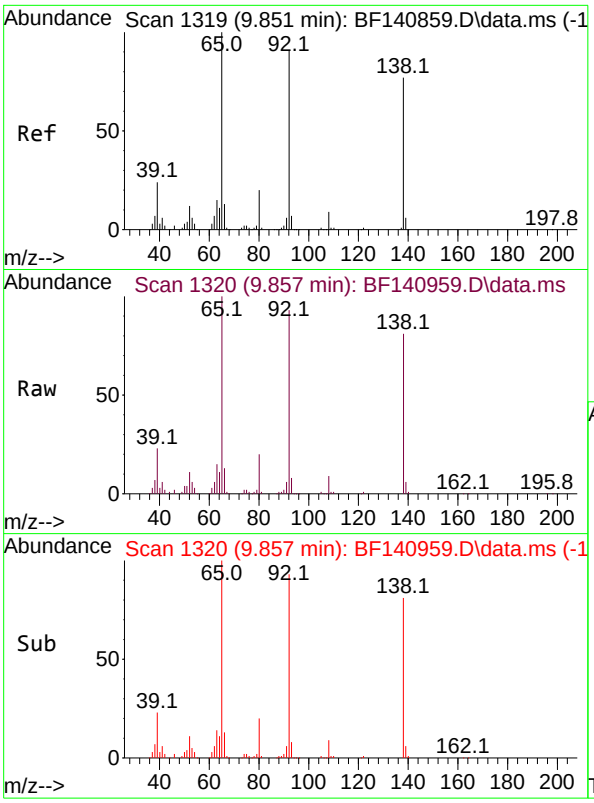


#52
Acenaphthene
Concen: 39.664 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:154 Resp: 331006

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.9	134.9
152	53.4	42.6	63.8



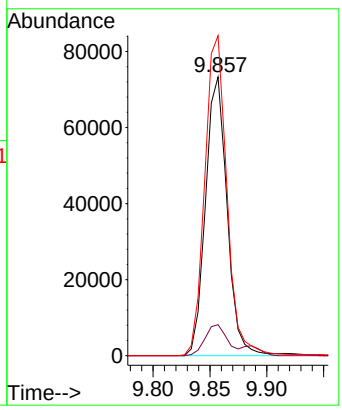


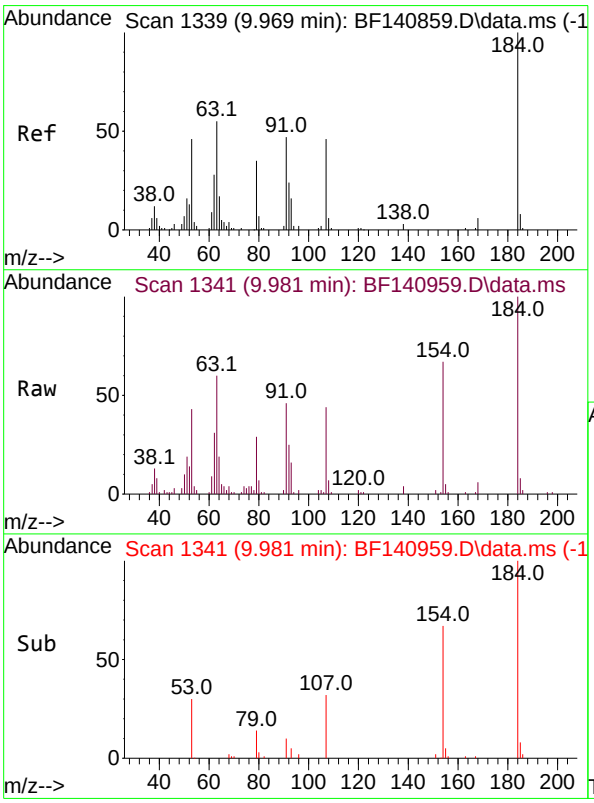
#53
3-Nitroaniline
Concen: 41.485 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 96968

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	114.8	95.5	143.3

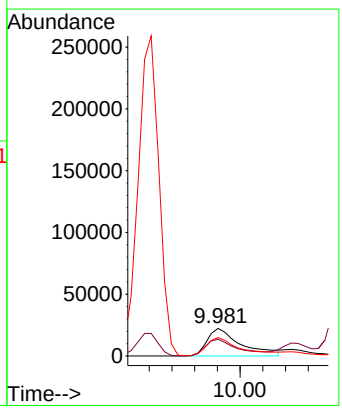


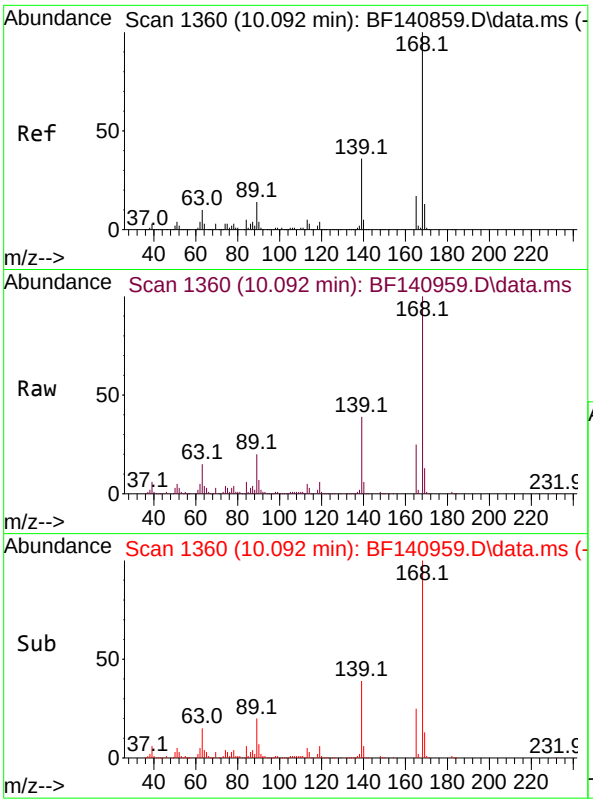


#54
2,4-Dinitrophenol
Concen: 43.346 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:184 Resp: 46064

Ion	Ratio	Lower	Upper
184	100		
63	60.2	51.6	77.4
154	66.7	56.1	84.1



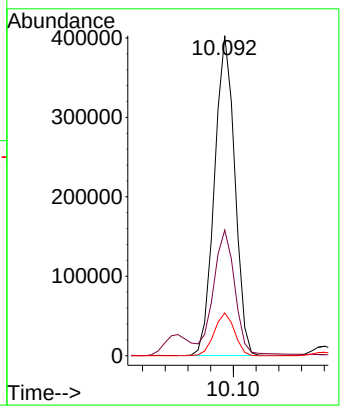


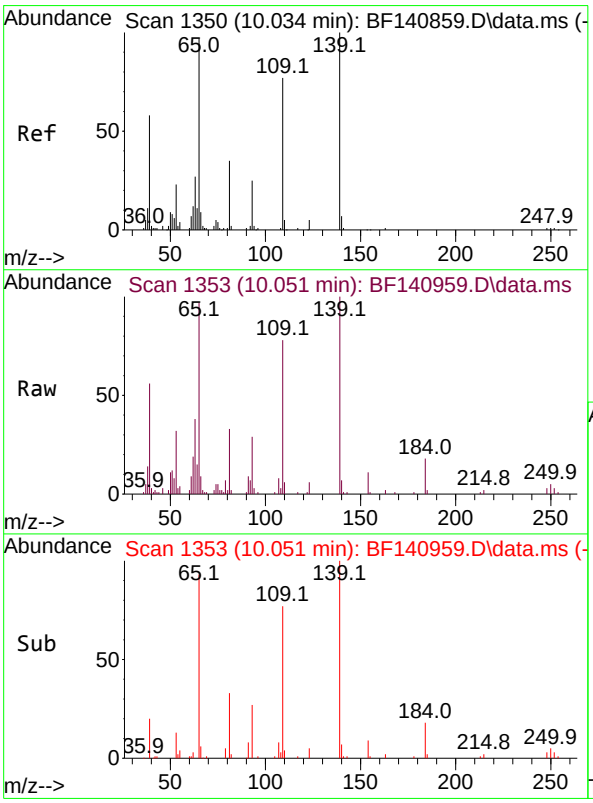
#55
Dibenzofuran
Concen: 38.647 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 499757

Ion	Ratio	Lower	Upper
168	100		
139	39.3	31.1	46.7
169	13.3	10.6	16.0

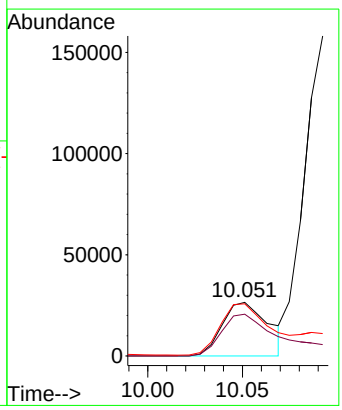


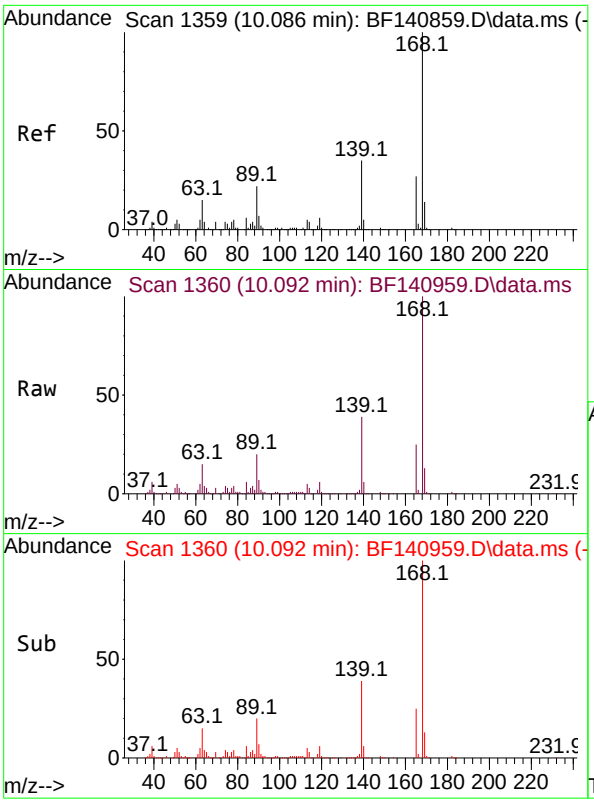


#56
4-Nitrophenol
Concen: 37.930 ng
RT: 10.051 min Scan# 1353
Delta R.T. 0.017 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:139 Resp: 44580

Ion	Ratio	Lower	Upper
139	100		
109	77.9	56.7	96.7
65	97.2	78.1	118.1



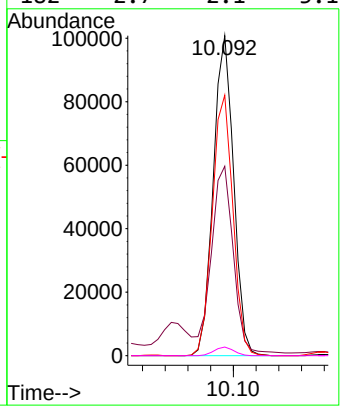


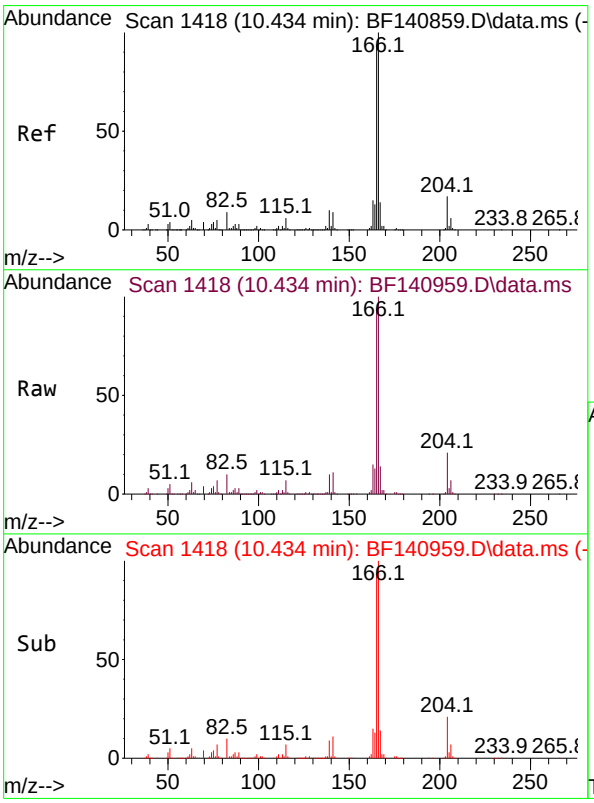
#57
2,4-Dinitrotoluene
Concen: 40.439 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 125320

Ion	Ratio	Lower	Upper
165	100		
63	59.2	49.3	73.9
89	81.4	66.2	99.4
182	2.7	2.1	3.1

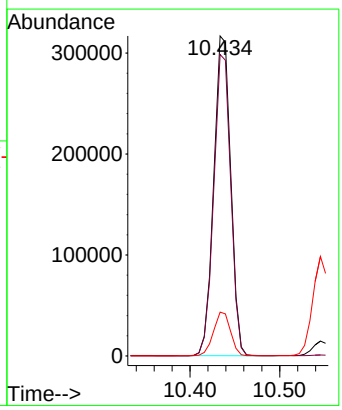


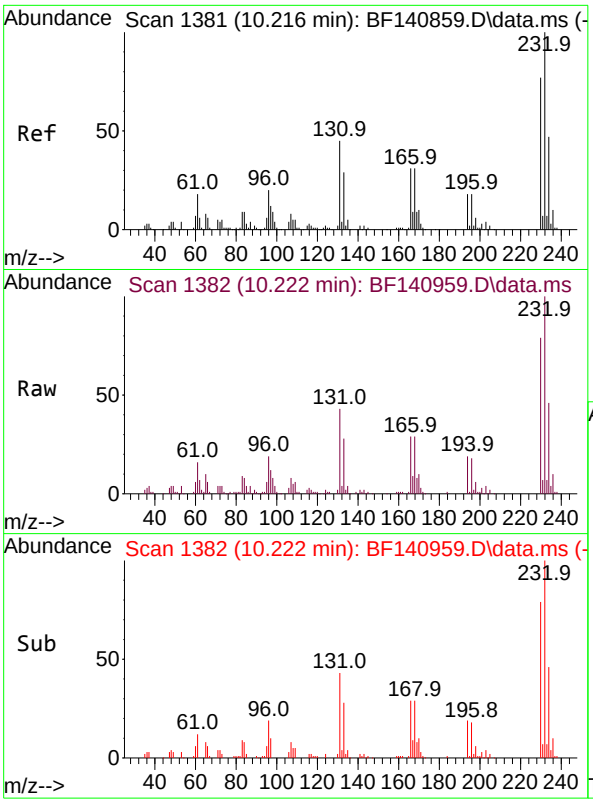


#58
Fluorene
Concen: 39.048 ng
RT: 10.434 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:166 Resp: 416576

Ion	Ratio	Lower	Upper
166	100		
165	94.2	75.1	112.7
167	13.7	11.1	16.7



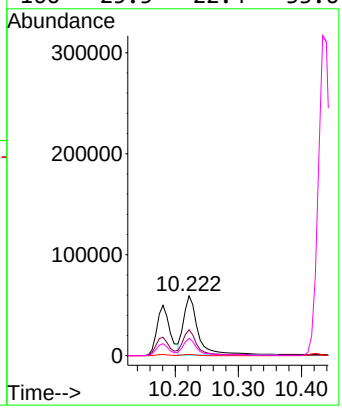


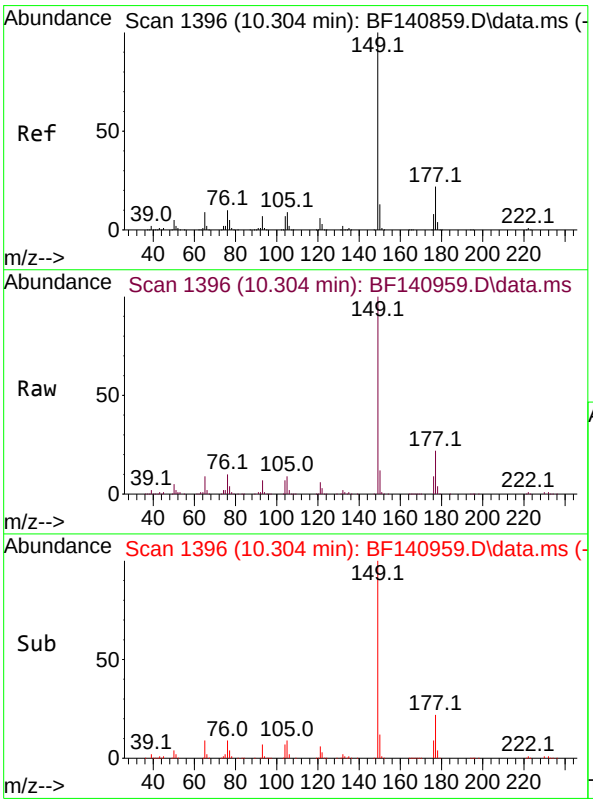
#59
2,3,4,6-Tetrachlorophenol
Concen: 37.667 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 92785

Ion	Ratio	Lower	Upper
232	100		
131	39.5	35.1	52.7
130	2.1	1.8	2.8
166	25.5	22.4	33.6

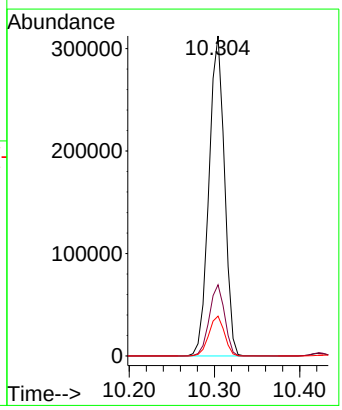


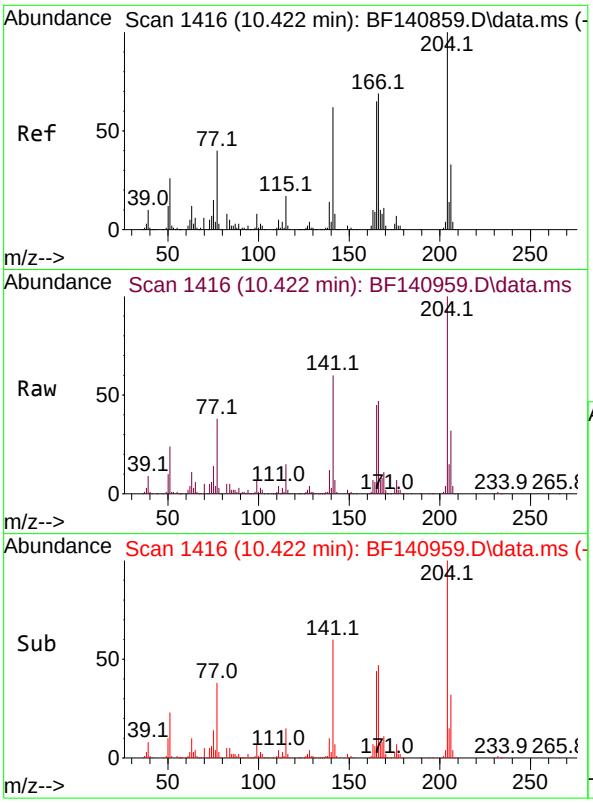


#60
Diethylphthalate
Concen: 37.002 ng
RT: 10.304 min Scan# 1396
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 395324

Ion	Ratio	Lower	Upper
149	100		
177	22.3	17.2	25.8
150	12.5	10.1	15.1



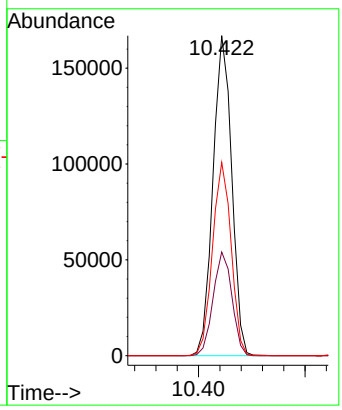


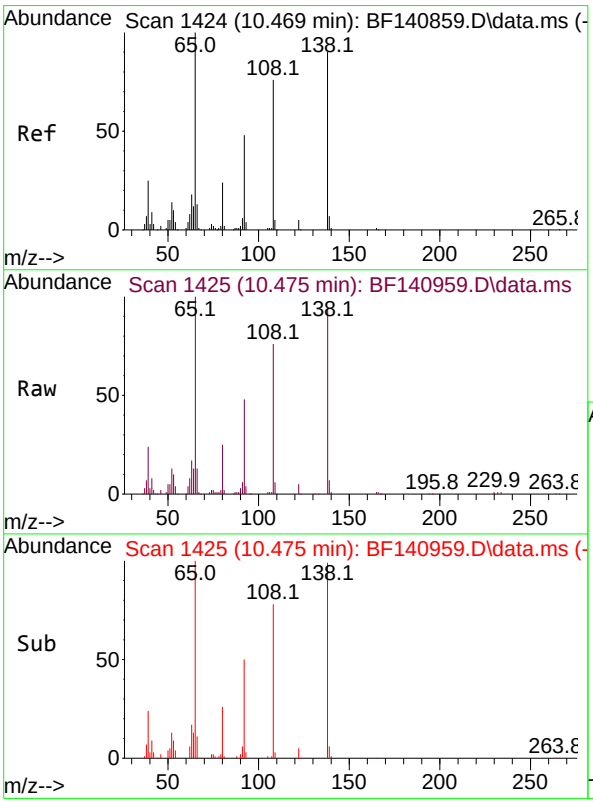
#61
4-Chlorophenyl-phenylether
Concen: 37.979 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 203526

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.5	39.7
141	60.4	50.0	75.0

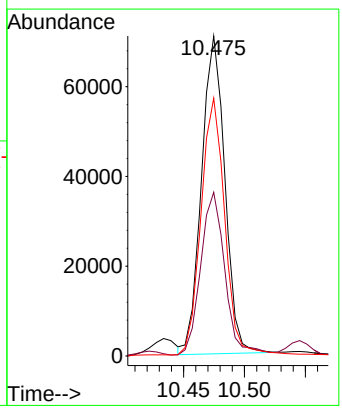


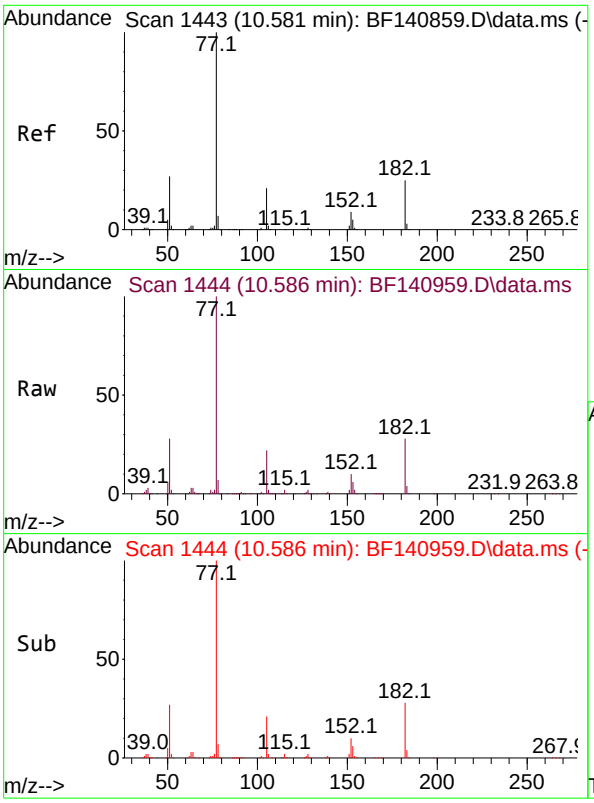


#62
4-Nitroaniline
Concen: 38.500 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:138 Resp: 94041

Ion	Ratio	Lower	Upper
138	100		
92	51.2	32.6	72.6
108	80.5	64.1	104.1



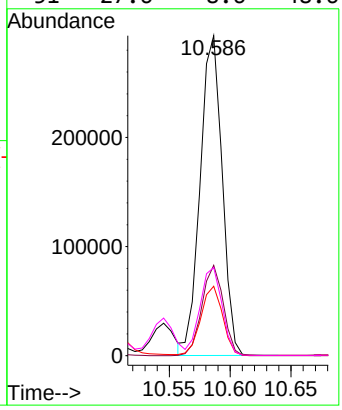


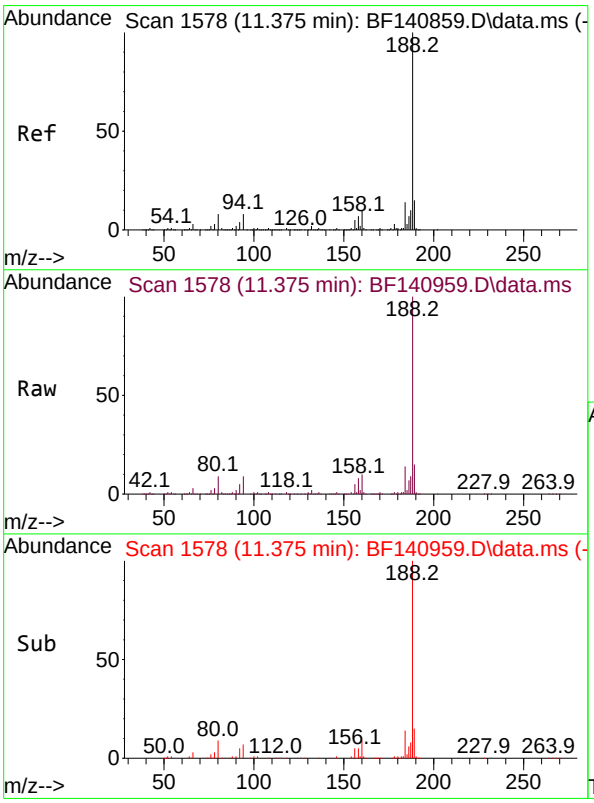
#63
Azobenzene
Concen: 36.682 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 368436

Ion	Ratio	Lower	Upper
77	100		
182	28.3	4.5	44.5
105	21.7	0.9	40.9
51	27.6	8.6	48.6

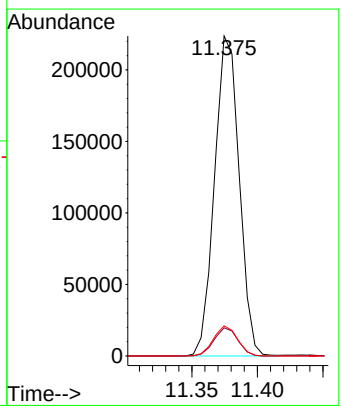


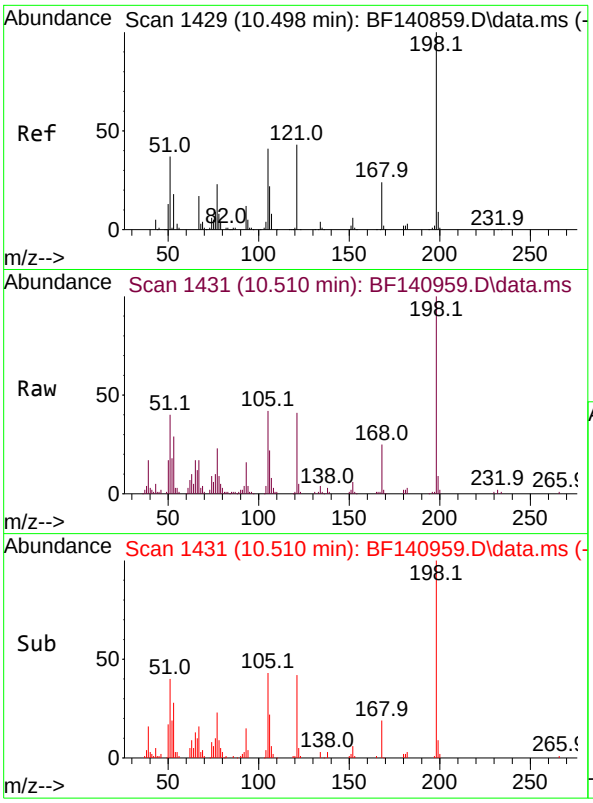


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:188 Resp: 291861

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.4	9.6
80	9.4	6.8	10.2



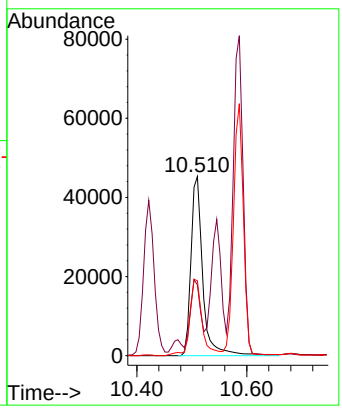


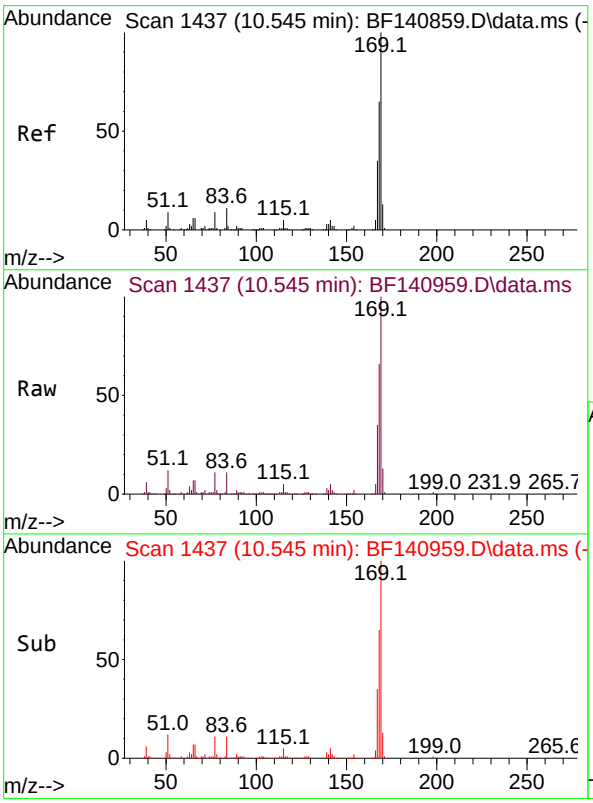
#65
4,6-Dinitro-2-methylphenol
Concen: 40.900 ng
RT: 10.510 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 67642

Ion	Ratio	Lower	Upper
198	100		
51	39.6	24.4	64.4
105	41.8	22.1	62.1

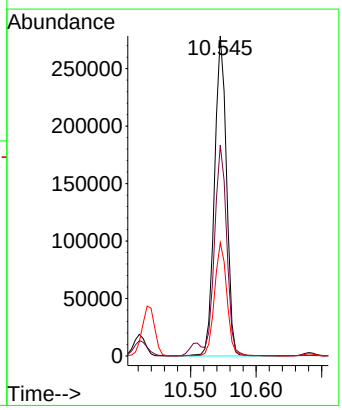


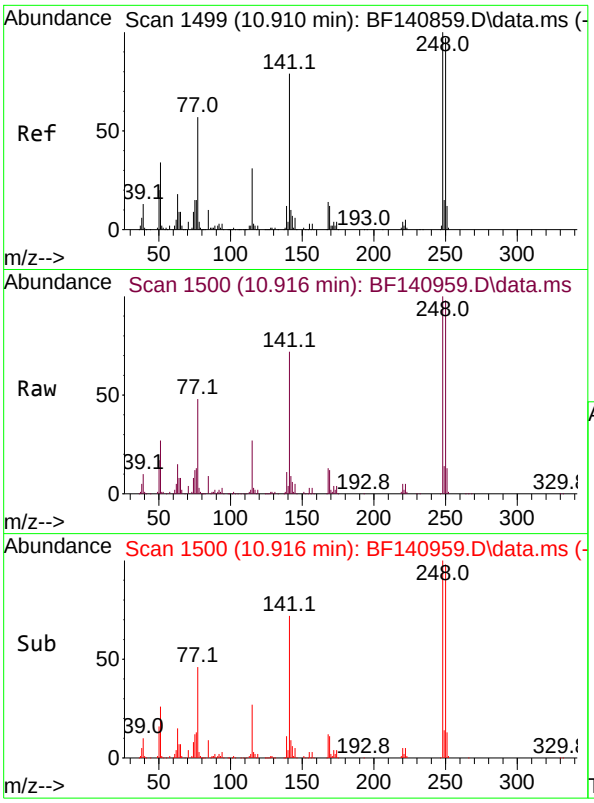


#66
n-Nitrosodiphenylamine
Concen: 39.380 ng
RT: 10.545 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:169 Resp: 353375

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.4	80.0
167	35.4	28.3	42.5



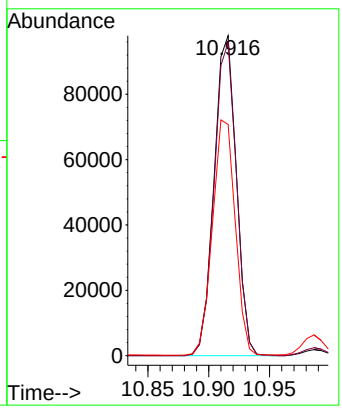


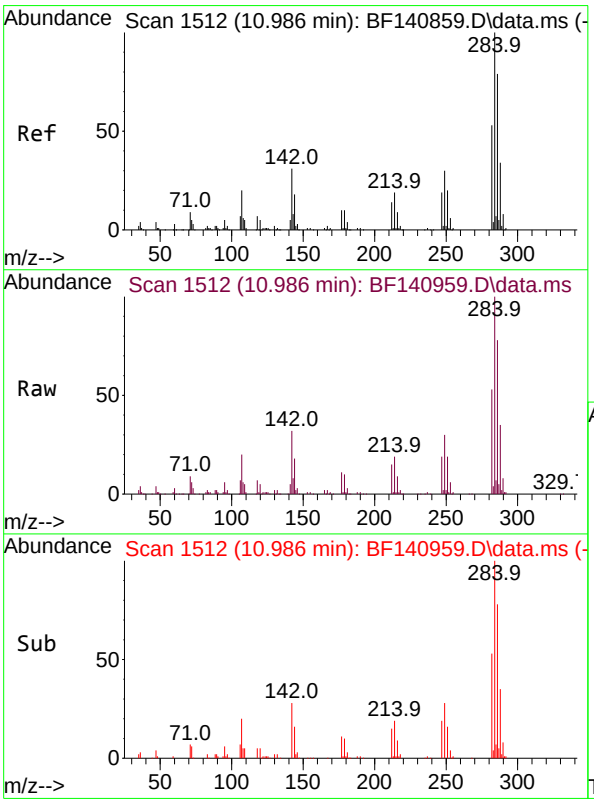
#67
4-Bromophenyl-phenylether
Concen: 38.203 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 124736

Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.4	116.2
141	72.3	62.9	94.3

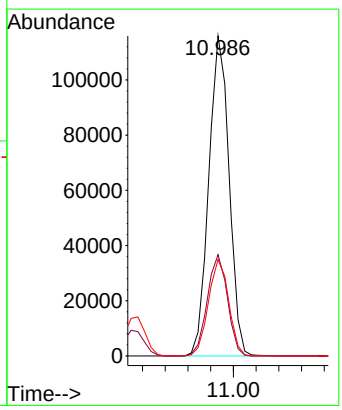


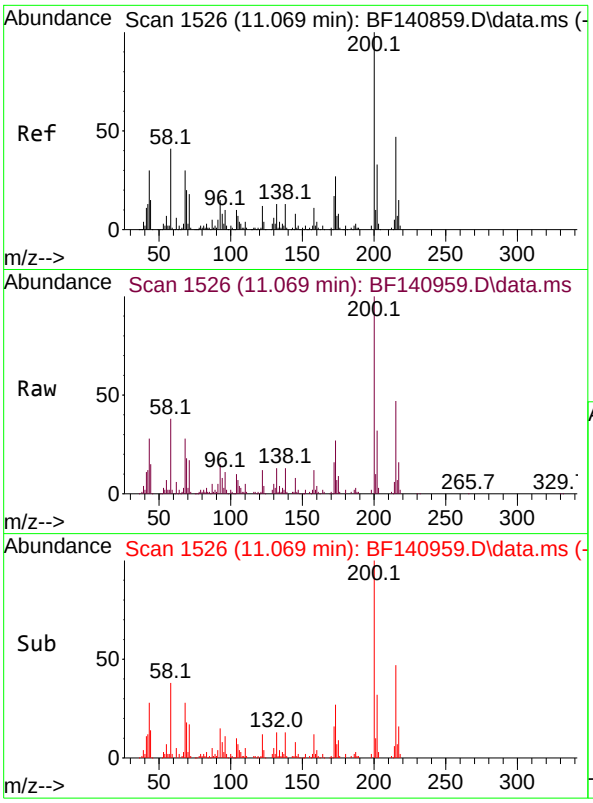


#68
Hexachlorobenzene
Concen: 38.882 ng
RT: 10.986 min Scan# 1512
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:284 Resp: 143941

Ion	Ratio	Lower	Upper
284	100		
142	31.7	24.6	36.8
249	30.1	24.3	36.5



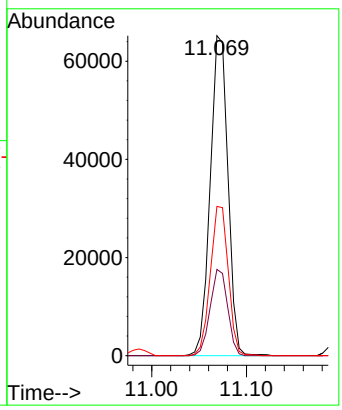


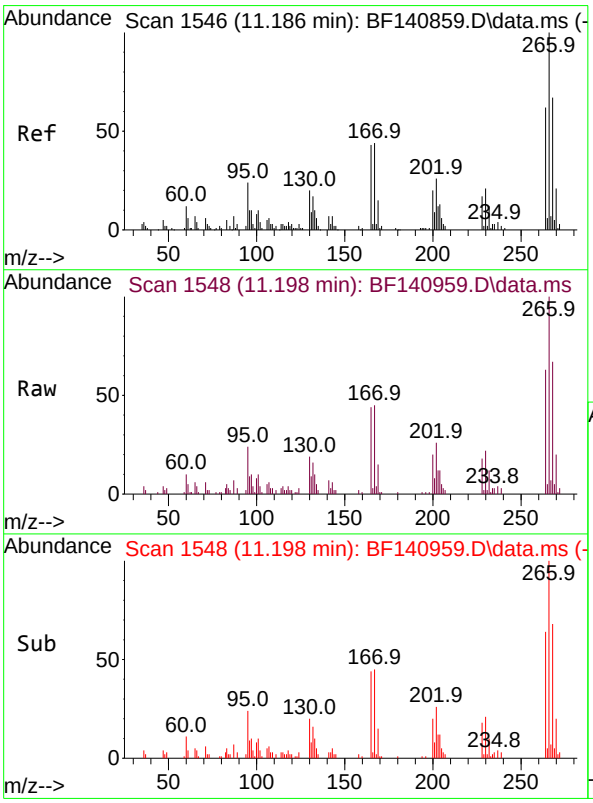
#69
Atrazine
Concen: 33.792 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 84689

Ion	Ratio	Lower	Upper
200	100		
173	26.9	6.6	46.6
215	46.7	26.7	66.7

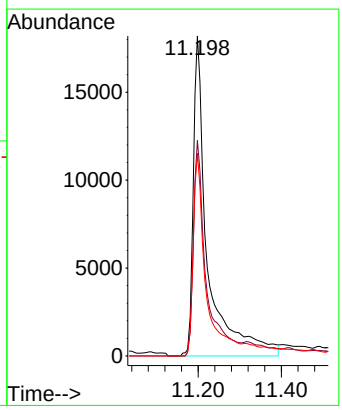


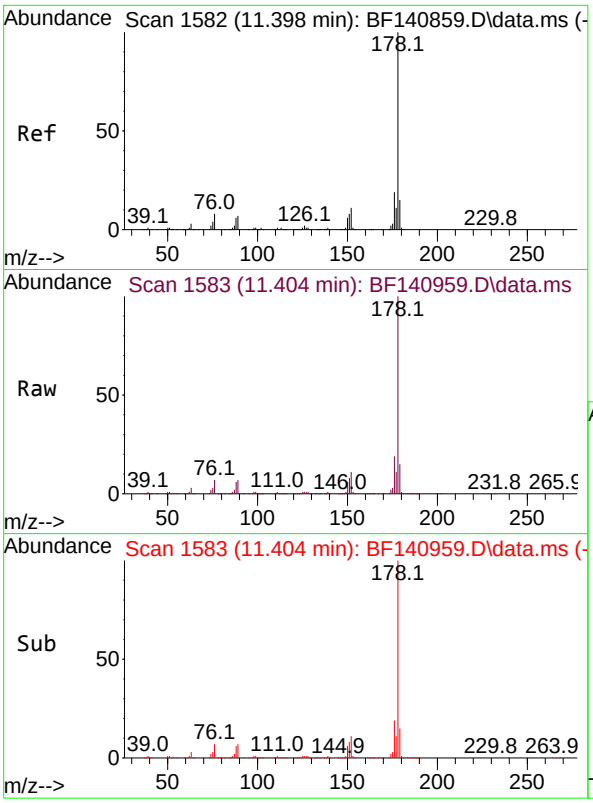


#70
Pentachlorophenol
Concen: 32.340 ng
RT: 11.198 min Scan# 1548
Delta R.T. 0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:266 Resp: 43771

Ion	Ratio	Lower	Upper
266	100		
268	67.4	54.0	81.0
264	63.3	49.4	74.2



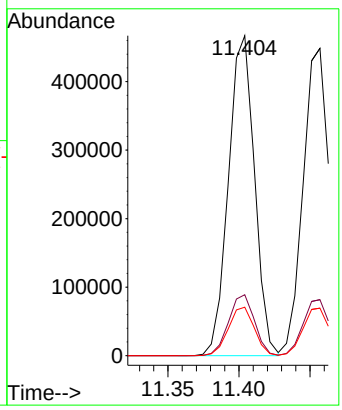


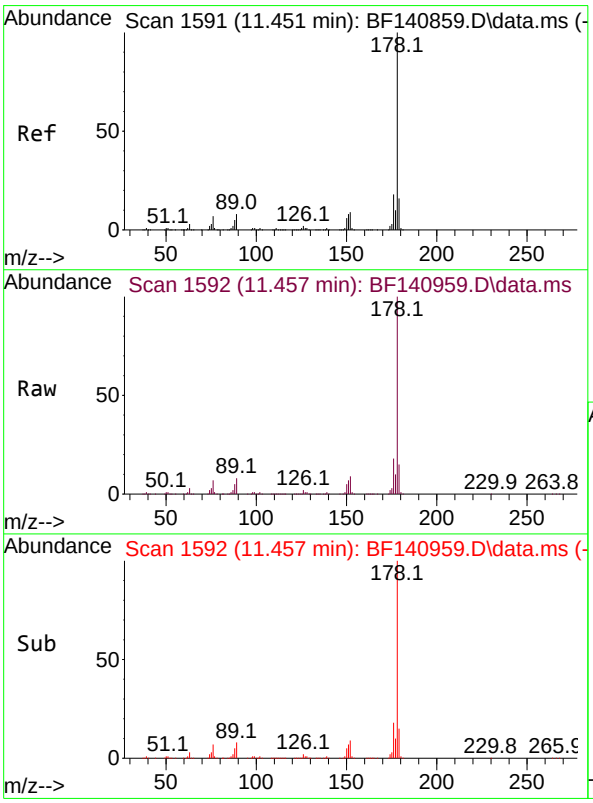
#71
Phenanthrene
Concen: 39.689 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 595675

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	15.1	12.1	18.1

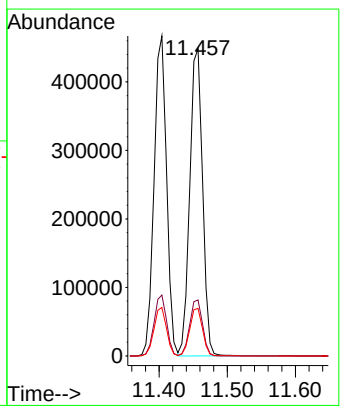


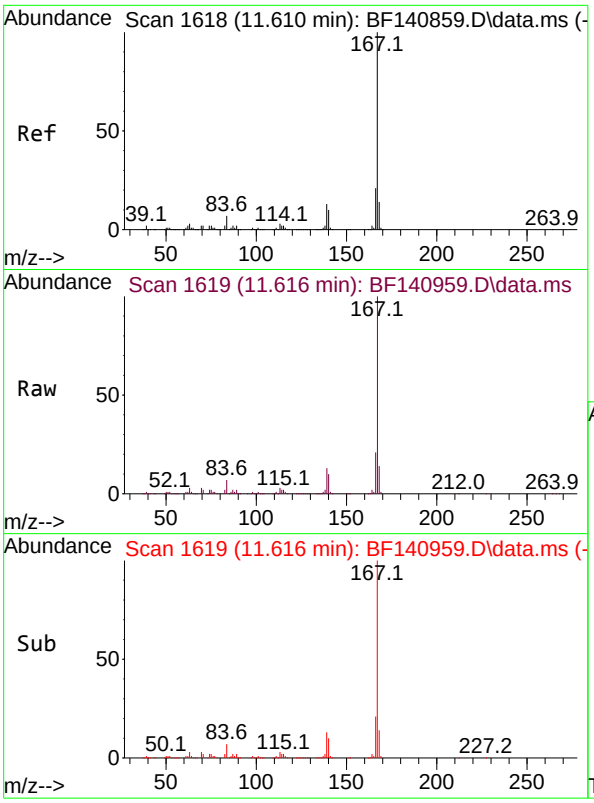


#72
Anthracene
Concen: 39.262 ng
RT: 11.457 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:178 Resp: 580319

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	22.0
179	15.5	12.6	18.8



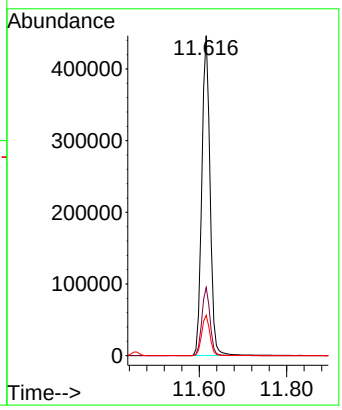


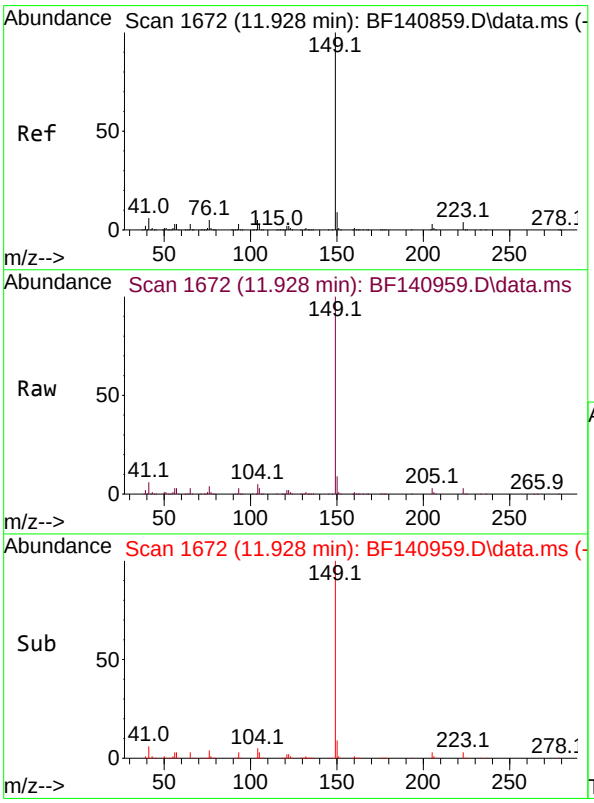
#73
Carbazole
Concen: 40.420 ng
RT: 11.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 585180

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	12.6	10.2	15.2

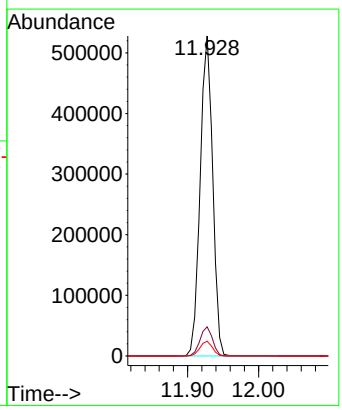


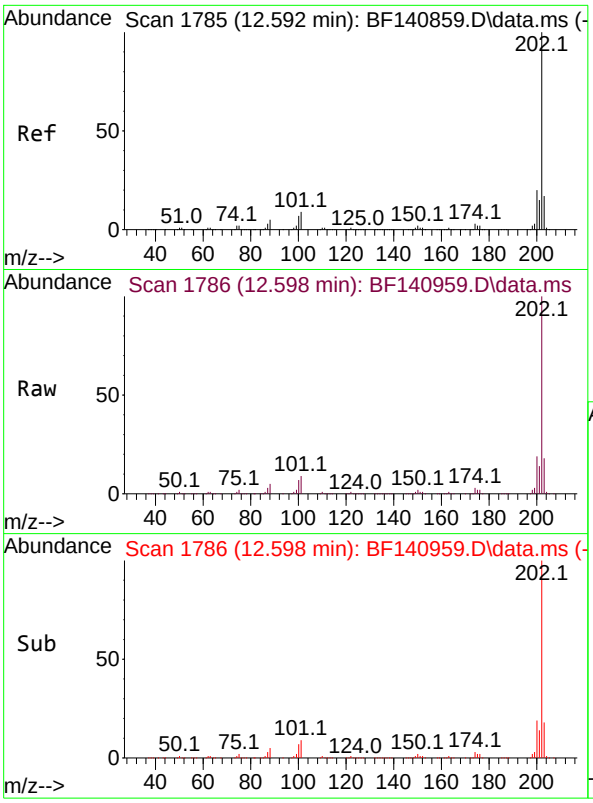


#74
Di-n-butylphthalate
Concen: 38.065 ng
RT: 11.928 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 646754

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.5	11.3
104	4.6	3.8	5.8



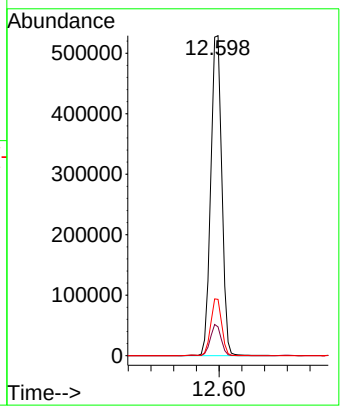


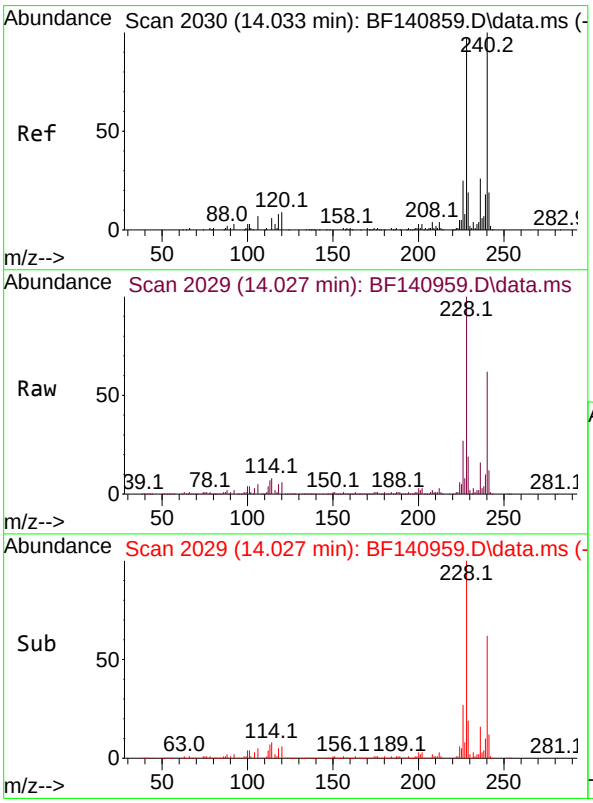
#75
Fluoranthene
Concen: 41.145 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 711196

Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	29.3
203	17.6	0.0	37.4

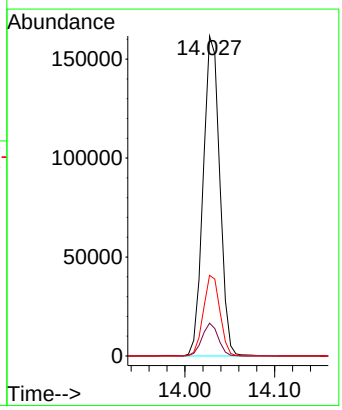


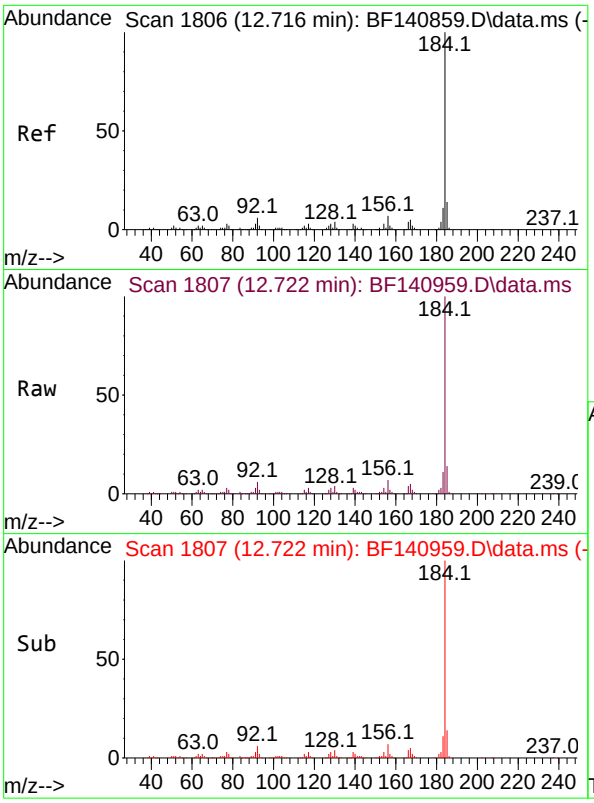


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:240 Resp: 207326

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.6	11.4
236	25.2	20.5	30.7



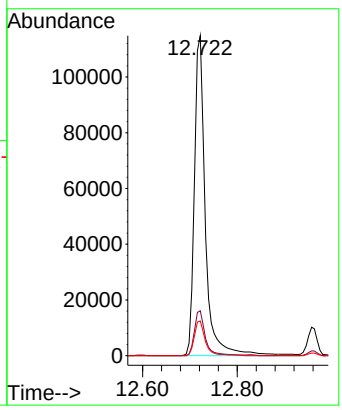


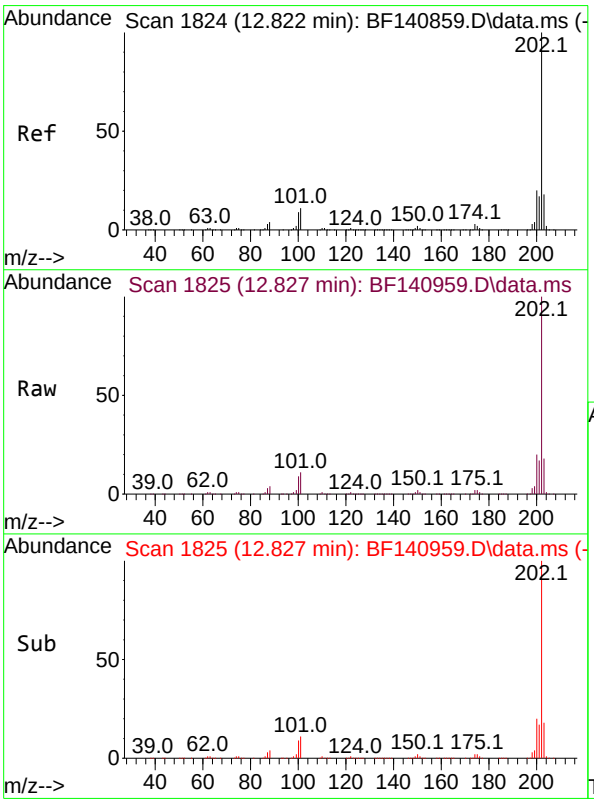
#77
Benzidine
Concen: 43.643 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 184675

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.1	16.7
183	10.9	9.0	13.4

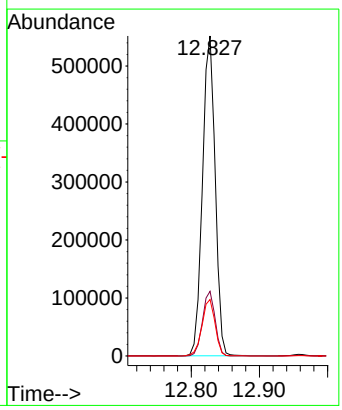


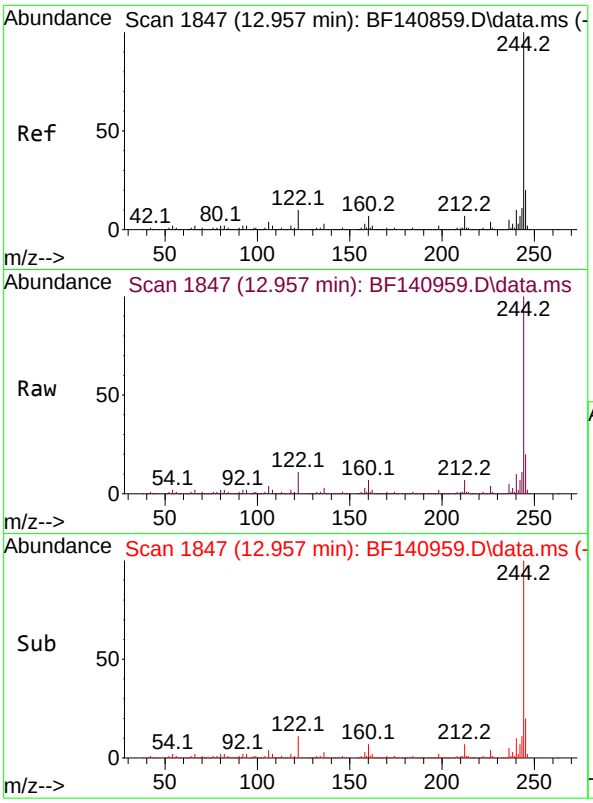


#78
Pyrene
Concen: 38.803 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:202 Resp: 715402

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.7	14.2	21.4



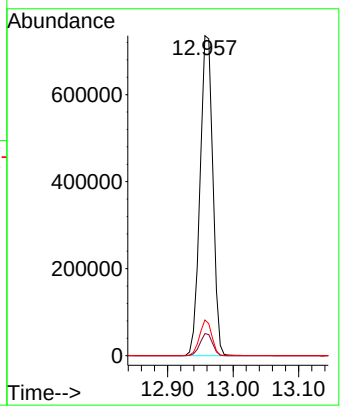


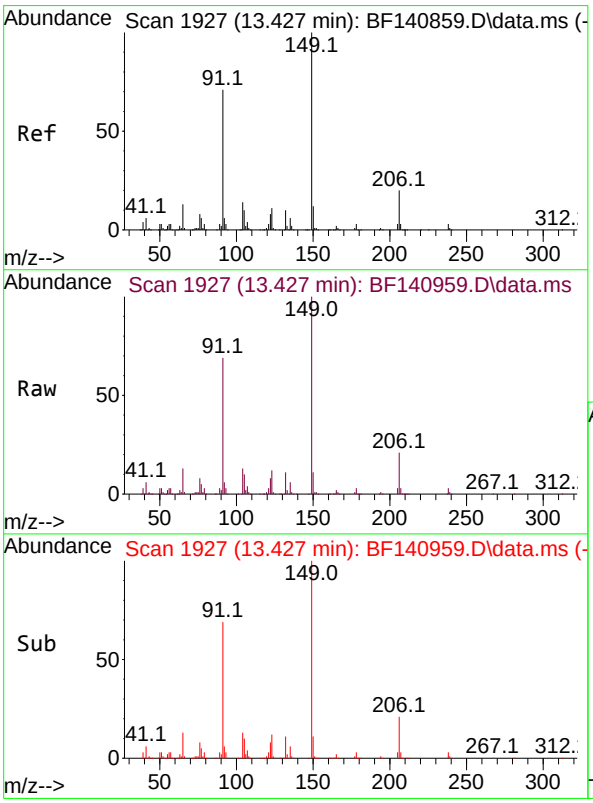
#79
Terphenyl-d14
Concen: 76.158 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 1001326

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	11.1	8.2	12.2

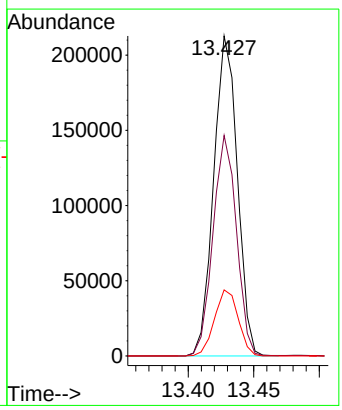


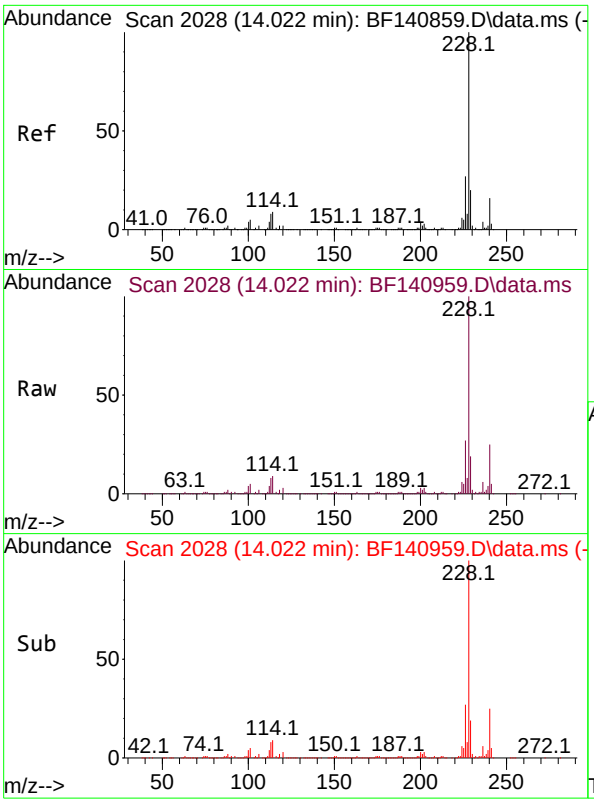


#80
Butylbenzylphthalate
Concen: 39.317 ng
RT: 13.427 min Scan# 1927
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 266719

Ion	Ratio	Lower	Upper
149	100		
91	68.9	56.7	85.1
206	20.7	16.4	24.6



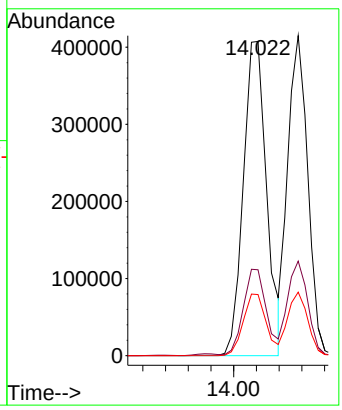


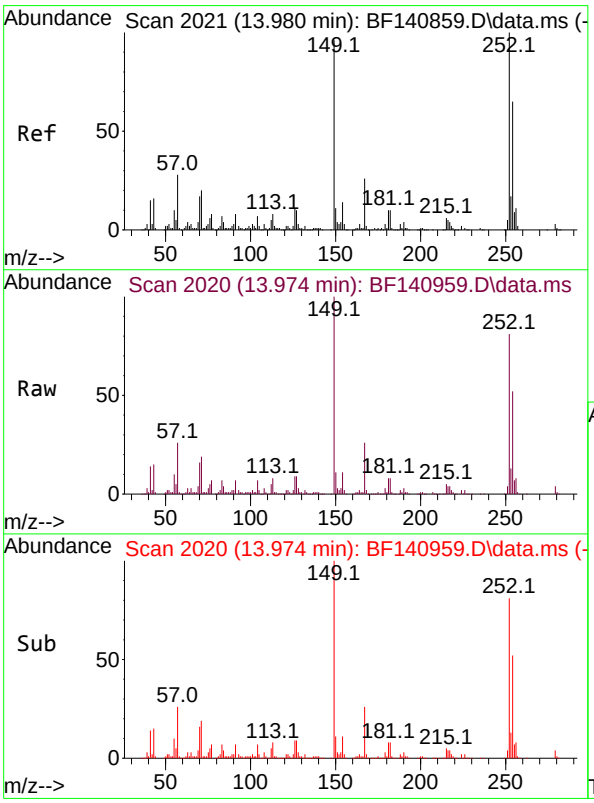
#81
Benzo(a)anthracene
Concen: 39.621 ng
RT: 14.022 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 582184

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.4	15.8	23.8

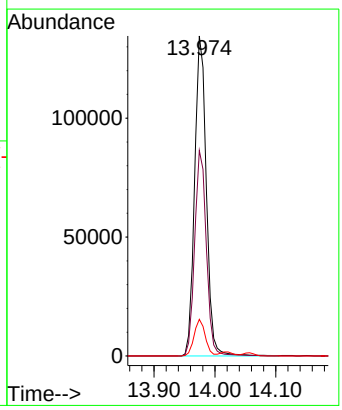


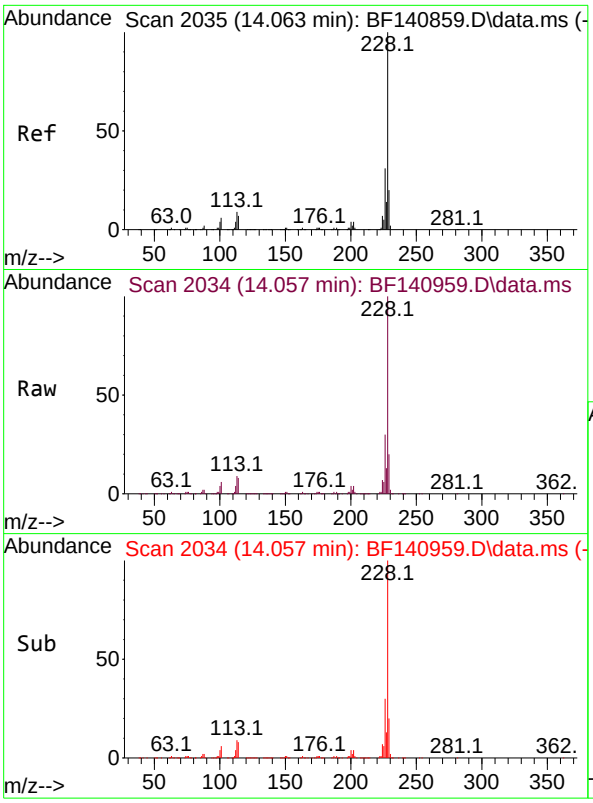


#82
3,3'-Dichlorobenzidine
Concen: 40.550 ng
RT: 13.974 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 179769

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.3	78.5
126	11.5	8.4	12.6



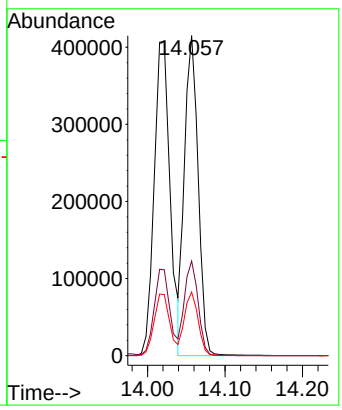


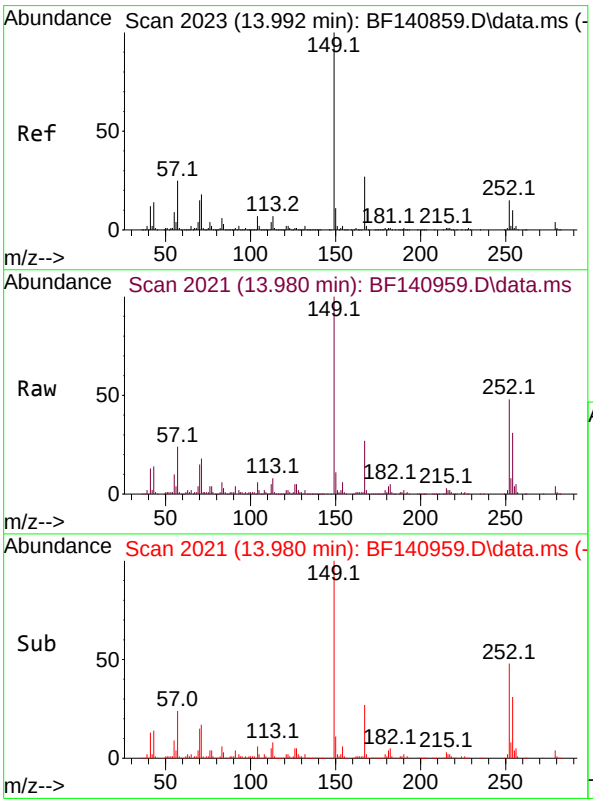
#83
Chrysene
Concen: 38.074 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 508731

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	19.8	16.0	24.0

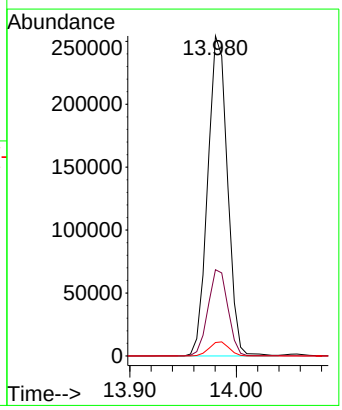


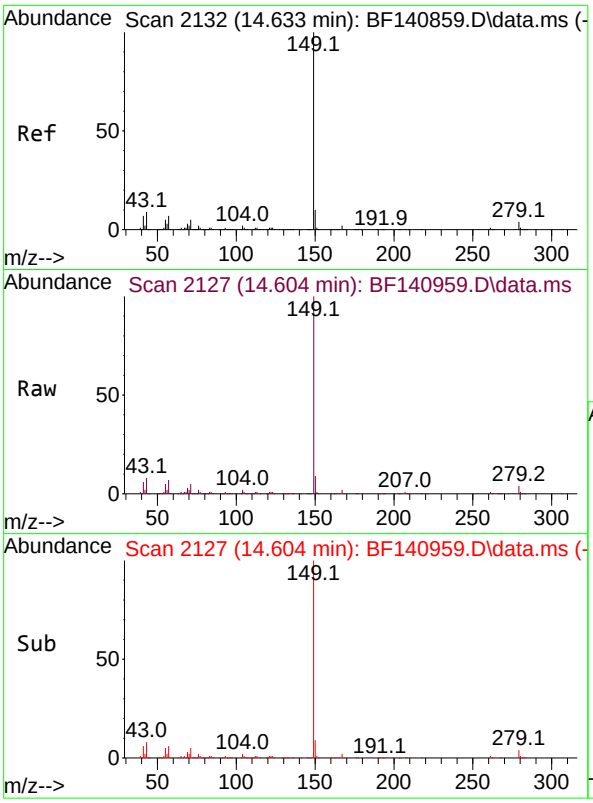


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.465 ng
RT: 13.980 min Scan# 2021
Delta R.T. -0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:149 Resp: 327711

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.8	32.8
279	4.2	3.5	5.3



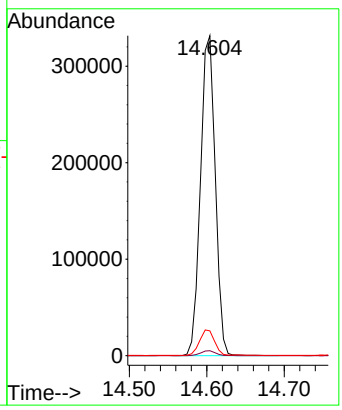


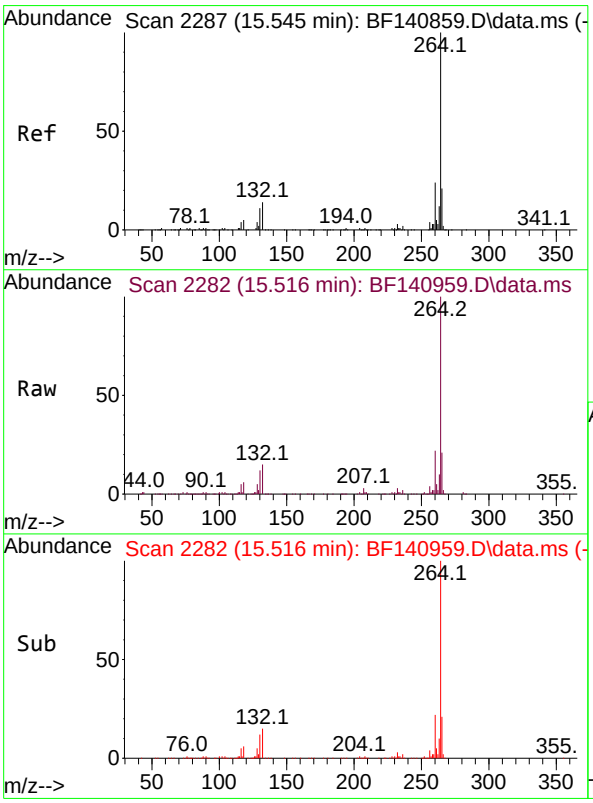
#85
Di-n-octyl phthalate
Concen: 33.196 ng
RT: 14.604 min Scan# 21
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 439301

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	7.0	10.6

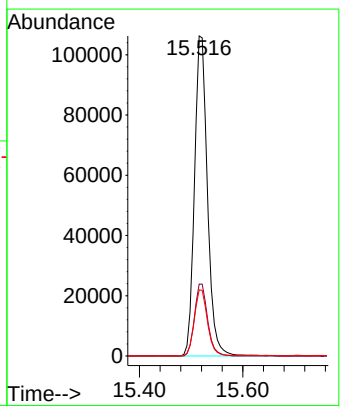


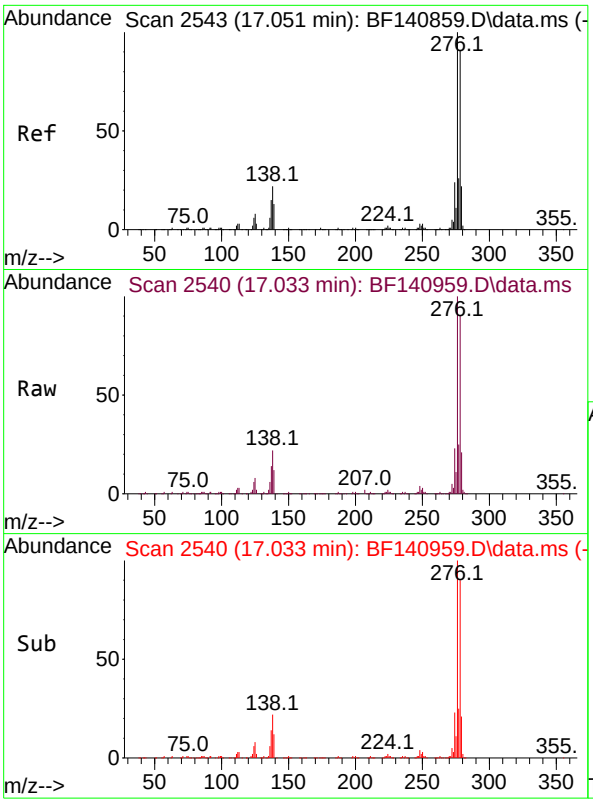


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2282
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:264 Resp: 184556

Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.1	28.7
265	20.7	17.0	25.4



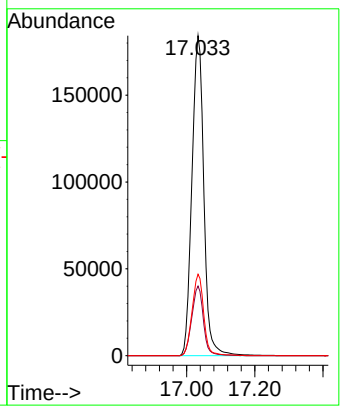


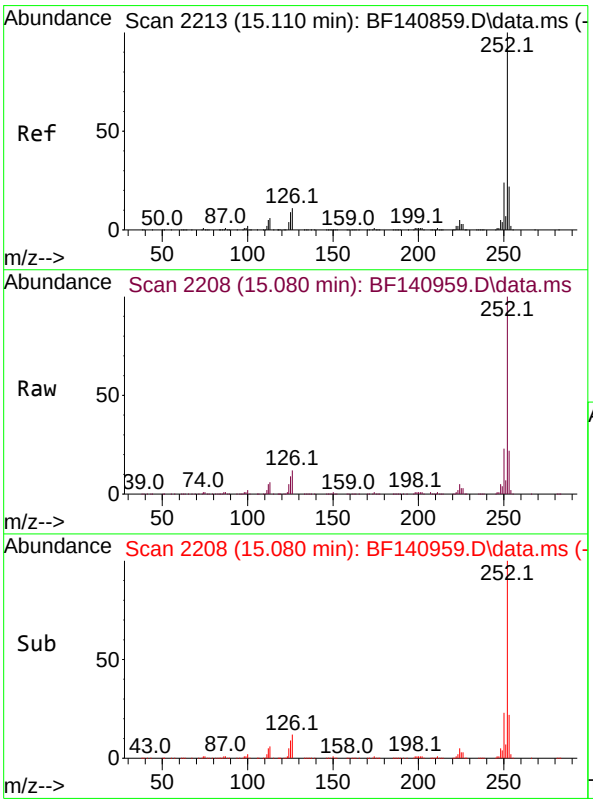
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.707 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 445783

Ion	Ratio	Lower	Upper
276	100		
138	21.1	16.9	25.3
277	24.9	20.2	30.4

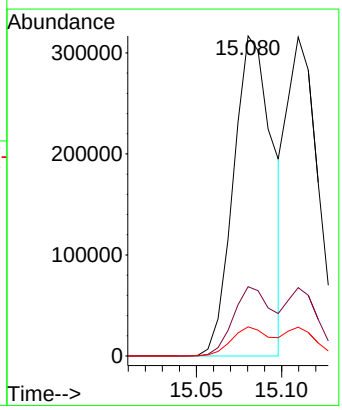


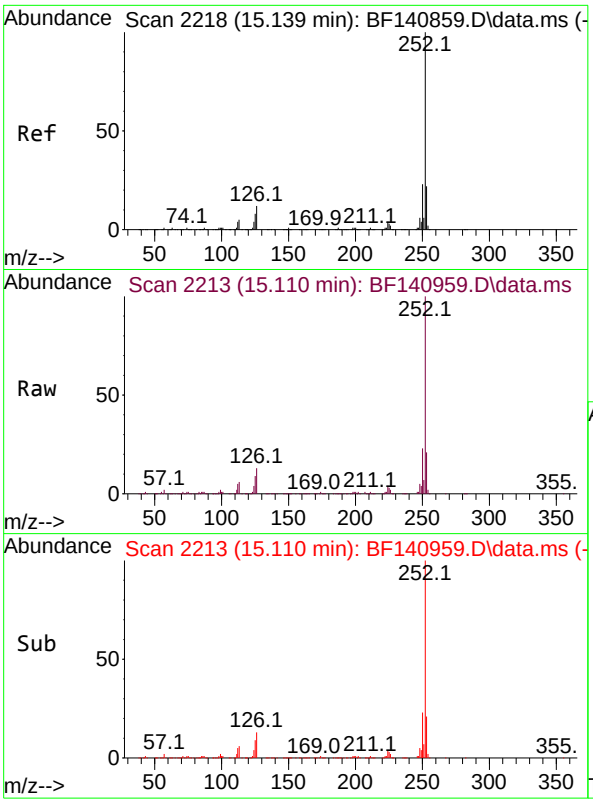


#88
Benzo(b)fluoranthene
Concen: 39.375 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 504436

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	9.1	7.0	10.4



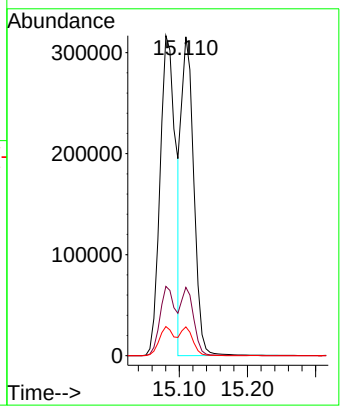


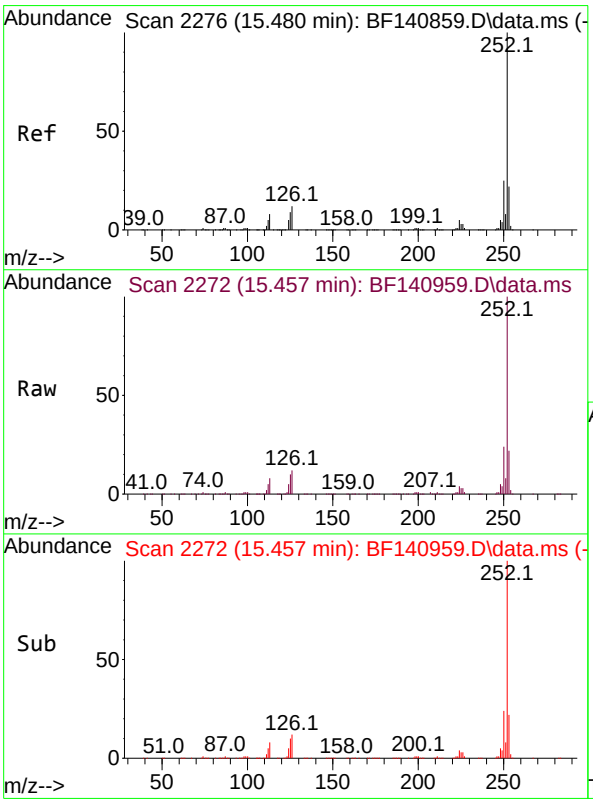
#89
Benzo(k)fluoranthene
Concen: 36.468 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 400757

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.5	26.3
125	9.1	6.8	10.2

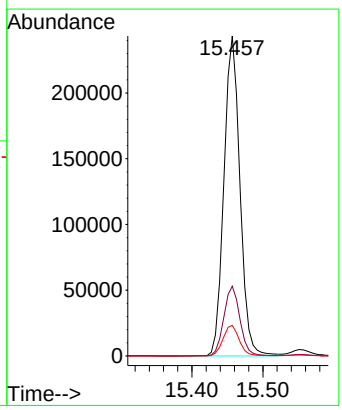


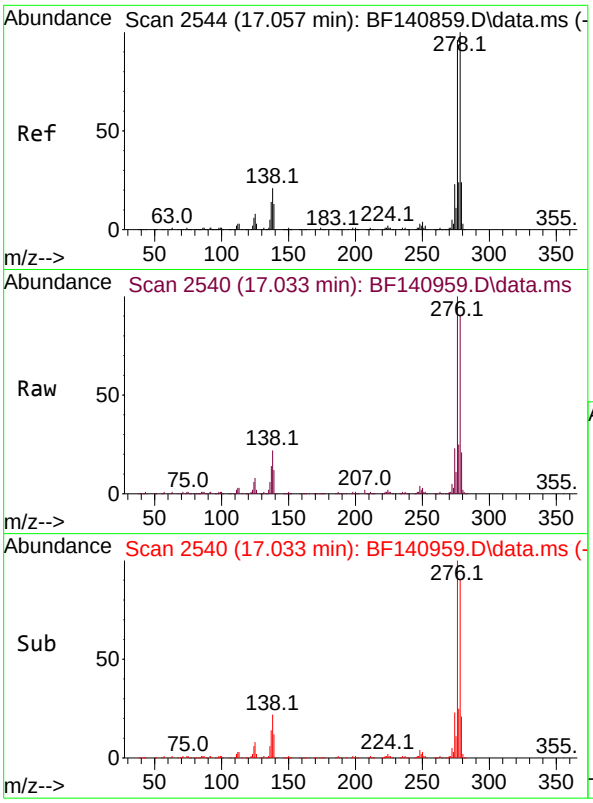


#90
Benzo(a)pyrene
Concen: 37.915 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.023 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:252 Resp: 380341

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.6	7.5	11.3



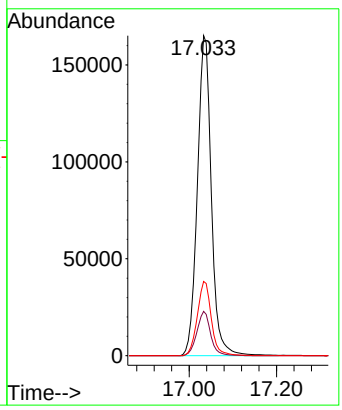


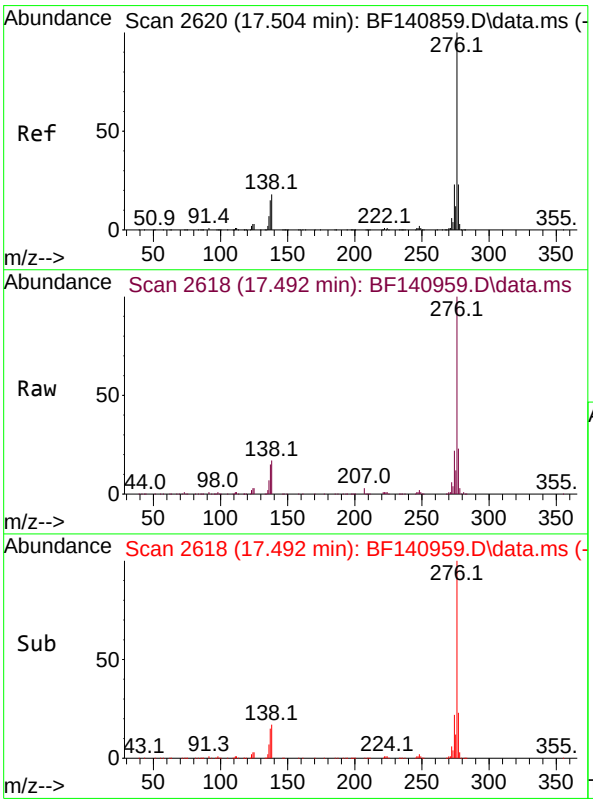
#91
Dibenzo(a,h)anthracene
Concen: 38.537 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 367688

Ion	Ratio	Lower	Upper
278	100		
139	13.8	10.6	16.0
279	23.2	19.2	28.8





#92
Benzo(g,h,i)perylene
Concen: 37.152 ng
RT: 17.492 min Scan# 2618
Delta R.T. -0.012 min
Lab File: BF140959.D
Acq: 20 Dec 2024 19:24

Tgt Ion:276 Resp: 360772

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.7	28.1
138	17.4	14.2	21.2

