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

Cover Page

Order ID : Q1352

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number	Client Sample Number
Q1352-01	TAP-IDW-SOIL-021025
Q1352-02	TAP-IDW-SOIL-021025

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: 2/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1352**

	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:** **02/21/2025**

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

LAB CHRONICLE

OrderID:	Q1352	**OrderDate:**	2/11/2025 11:32:00 AM
Client:	Weston Solutions	**Project:**	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	**Location:**	N51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1352-02	**TAP-IDW-SOIL-021025**	**TCLP**			**02/10/25**			**02/11/25**
			TCLP BNA	8270E		02/13/25	02/14/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1352

Client: Weston Solutions

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.: Q1352

Client: Weston Solutions

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166700TB	PB166700TB	2-Fluorophenol	150	140	93		19	119
		Phenol-d6	150	137	91		10	130
		Nitrobenzene-d5	100	91.9	92		44	120
		2-Fluorobiphenyl	100	93.1	93		44	119
		2,4,6-Tribromophenol	150	139	93		43	140
		Terphenyl-d14	100	92.4	92		50	134
PB166711BL	PB166711BL	2-Fluorophenol	150	136	91		19	119
		Phenol-d6	150	133	89		10	130
		Nitrobenzene-d5	100	93.0	93		44	120
		2-Fluorobiphenyl	100	95.8	96		44	119
		2,4,6-Tribromophenol	150	141	94		43	140
		Terphenyl-d14	100	92.6	93		50	134
PB166711BS	PB166711BS	2-Fluorophenol	150	135	90		19	119
		Phenol-d6	150	134	89		10	130
		Nitrobenzene-d5	100	91.6	92		44	120
		2-Fluorobiphenyl	100	91.0	91		44	119
		2,4,6-Tribromophenol	150	137	92		43	140
		Terphenyl-d14	100	95.2	95		50	134
Q1352-02	TAP-IDW-SOIL-021025	2-Fluorophenol	150	133	89		19	119
		Phenol-d6	150	121	81		10	130
		Nitrobenzene-d5	100	92.6	93		44	120
		2-Fluorobiphenyl	100	92.0	92		44	119
		2,4,6-Tribromophenol	150	141	94		43	140
		Terphenyl-d14	100	103	103		50	134
Q1356-04MS	CARBON-WATERMS	2-Fluorophenol	150	132	88		19	119
		Phenol-d6	150	119	80		10	130
		Nitrobenzene-d5	100	95.9	96		44	120
		2-Fluorobiphenyl	100	94.3	94		44	119
		2,4,6-Tribromophenol	150	143	95		43	140
		Terphenyl-d14	100	109	109		50	134
Q1356-04MSD	CARBON-WATERMSD	2-Fluorophenol	150	133	89		19	119
		Phenol-d6	150	120	80		10	130
		Nitrobenzene-d5	100	98.5	99		44	120
		2-Fluorobiphenyl	100	95.0	95		44	119
		2,4,6-Tribromophenol	150	142	95		43	140
		Terphenyl-d14	100	117	117		50	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.: Q1352

Client: Weston Solutions

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1356-04MS		**Client Sample ID: CARBON-WATERMS**						**DataFile: BF141635.D**			
Pyridine	500	0	230	ug/L	46				10	153	
1,4-Dichlorobenzene	500	0	440	ug/L	88				29	112	
2-Methylphenol	500	0	440	ug/L	88				30	117	
3+4-Methylphenols	500	0	450	ug/L	90				29	110	
Hexachloroethane	500	0	440	ug/L	88				21	115	
Nitrobenzene	500	0	440	ug/L	88				45	121	
Hexachlorobutadiene	500	0	440	ug/L	88				22	124	
2,4,6-Trichlorophenol	500	0	440	ug/L	88				50	125	
2,4,5-Trichlorophenol	500	0	440	ug/L	88				53	123	
2,4-Dinitrotoluene	500	0	470	ug/L	94				57	128	
Hexachlorobenzene	500	0	470	ug/L	94				53	125	
Pentachlorophenol	1000	0	800	ug/L	80				35	138	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1352

Client: Weston Solutions

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1356-04MSD		**Client Sample ID: CARBON-WATERMSD**						**DataFile: BF141636.D**			
Pyridine	500	0	250	ug/L	50		8		10	153	20
1,4-Dichlorobenzene	500	0	450	ug/L	90		2		29	112	20
2-Methylphenol	500	0	450	ug/L	90		2		30	117	20
3+4-Methylphenols	500	0	450	ug/L	90		0		29	110	20
Hexachloroethane	500	0	450	ug/L	90		2		21	115	20
Nitrobenzene	500	0	450	ug/L	90		2		45	121	20
Hexachlorobutadiene	500	0	450	ug/L	90		2		22	124	20
2,4,6-Trichlorophenol	500	0	460	ug/L	92		4		50	125	20
2,4,5-Trichlorophenol	500	0	440	ug/L	88		0		53	123	20
2,4-Dinitrotoluene	500	0	470	ug/L	94		0		57	128	20
Hexachlorobenzene	500	0	470	ug/L	94		0		53	125	20
Pentachlorophenol	1000	0	800	ug/L	80		0		35	138	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.: Q1352

Client: Weston Solutions

Analytical Method: 8270E **DataFile:** BF141630.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166711BS	Pyridine	50	37.8	ug/L	76				10	153	
	1,4-Dichlorobenzene	50	43.1	ug/L	86				29	112	
	2-Methylphenol	50	43.4	ug/L	87				30	117	
	3+4-Methylphenols	50	44.5	ug/L	89				29	110	
	Hexachloroethane	50	43.7	ug/L	87				21	115	
	Nitrobenzene	50	41.4	ug/L	83				45	121	
	Hexachlorobutadiene	50	43.4	ug/L	87				22	124	
	2,4,6-Trichlorophenol	50	42.5	ug/L	85				50	125	
	2,4,5-Trichlorophenol	50	41.6	ug/L	83				53	123	
	2,4-Dinitrotoluene	50	44.4	ug/L	89				57	128	
	Hexachlorobenzene	50	43.7	ug/L	87				53	125	
	Pentachlorophenol	100	78.2	ug/L	78				35	138	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166711BL

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: BF141629.D Lab Sample ID: PB166711BL

Instrument ID: BNA_F Date Extracted: 02/13/2025

Matrix: (soil/water) water Date Analyzed: 02/14/2025

Level: (low/med) LOW Time Analyzed: 10:29

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166711BS	PB166711BS	BF141630.D	02/14/2025
TAP-IDW-SOIL-021025	Q1352-02	BF141633.D	02/14/2025
CARBON-WATERMS	Q1356-04MS	BF141635.D	02/14/2025
CARBON-WATERMSD	Q1356-04MSD	BF141636.D	02/14/2025
PB166700TB	PB166700TB	BF141631.D	02/14/2025

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: WEST04

Lab Code: CHEM SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: BF141471.D DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:41

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

1-Value is % mass 69 2-Value is % mass 442

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

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

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: WEST04

Lab Code: CHEM SAS No.: Q1352 SDG NO.: Q1352

Lab File ID: BF141627.D DFTPP Injection Date: 02/14/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:19

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.3
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	36.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	12.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.4 (18.6) 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	BF141628.D	02/14/2025	09:45
PB166711BL	PB166711BL	BF141629.D	02/14/2025	10:29
PB166711BS	PB166711BS	BF141630.D	02/14/2025	10:55
PB166700TB	PB166700TB	BF141631.D	02/14/2025	11:21
TAP-IDW-SOIL-021025	Q1352-02	BF141633.D	02/14/2025	12:18
CARBON-WATERMS	Q1356-04MS	BF141635.D	02/14/2025	13:11
CARBON-WATERMSD	Q1356-04MSD	BF141636.D	02/14/2025	13:37
SSTDCCC040EC	SSTDCCC040	BF141637.D	02/14/2025	14:12

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.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/14/2025

Lab File ID: BF141628.D Time Analyzed: 09:45

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	103235	6.787	408887	8.07	222735	9.82
	UPPER LIMIT	206470	7.287	817774	8.569	445470	10.322
	LOWER LIMIT	51617.5	6.287	204444	7.569	111368	9.322
	EPA SAMPLE NO.						
01	PB166711BL	91091	6.79	362070	8.07	202635	9.82
02	PB166711BS	90964	6.79	371902	8.07	212243	9.82
03	PB166700TB	90404	6.79	375424	8.07	209209	9.82
04	TAP-IDW-SOIL-021025	86790	6.79	356864	8.07	194980	9.82
05	CARBON-WATERMS	82541	6.79	333730	8.07	183625	9.82
06	CARBON-WATERMSD	84972	6.79	344114	8.07	188709	9.82

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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.: Q1352 SAS No.: Q1352 SDG NO.: Q1352

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/14/2025

Lab File ID: BF141628.D Time Analyzed: 09:45

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	379641	11.31	232432	13.957	185535	15.415
	UPPER LIMIT	759282	11.81	464864	14.457	371070	15.915
	LOWER LIMIT	189821	10.81	116216	13.457	92767.5	14.915
	EPA SAMPLE NO.						
01	PB166711BL	368068	11.31	292483	13.96	226077	15.46
02	PB166711BS	368683	11.31	270184	13.96	194810	15.43
03	PB166700TB	380647	11.30	294933	13.95	216122	15.43
04	TAP-IDW-SOIL-021025	336266	11.30	214163	13.95	168912	15.42
05	CARBON-WATERMS	312520	11.31	204031	13.96	166342	15.43
06	CARBON-WATERMSD	320276	11.31	187767	13.96	159211	15.43

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

Raw Data: **BF141631.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/13/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/13/25
Client Sample ID:	PB166700TB	SDG No.:	Q1352
Lab Sample ID:	PB166700TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF141631.D	1	02/13/25 09:00	02/14/25 11:21	PB166711

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	40.0	U	15.5	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	40.0	U	8.40	40.0	50.0	ug/L
95-48-7	2-Methylphenol	40.0	U	11.3	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	80.0	U	11.5	80.0	100	ug/L
67-72-1	Hexachloroethane	40.0	U	10.1	40.0	50.0	ug/L
98-95-3	Nitrobenzene	40.0	U	12.7	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	40.0	U	12.7	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.0	U	8.90	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	40.0	U	10.1	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	40.0	U	15.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	40.0	U	11.4	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	80.0	U	18.5	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	140		19 - 119		93%	SPK: 150
13127-88-3	Phenol-d6	137		10 - 130		91%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.9		44 - 120		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.1		44 - 119		93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		43 - 140		93%	SPK: 150
1718-51-0	Terphenyl-d14	92.4		50 - 134		92%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	90400	6.787				
1146-65-2	Naphthalene-d8	375000	8.069				
15067-26-2	Acenaphthene-d10	209000	9.822				
1517-22-2	Phenanthrene-d10	381000	11.304				
1719-03-5	Chrysene-d12	295000	13.951				
1520-96-3	Perylene-d12	216000	15.433				

Raw Data: **BF141631.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/13/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/13/25
Client Sample ID:	PB166700TB	SDG No.:	Q1352
Lab Sample ID:	PB166700TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF141631.D	1	02/13/25 09:00	02/14/25 11:21	PB166711

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\BF021425\
Data File : BF141631.D
Acq On : 14 Feb 2025 11:21
Operator : RC/JU
Sample : PB166700TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Quant Time: Feb 14 11:50:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

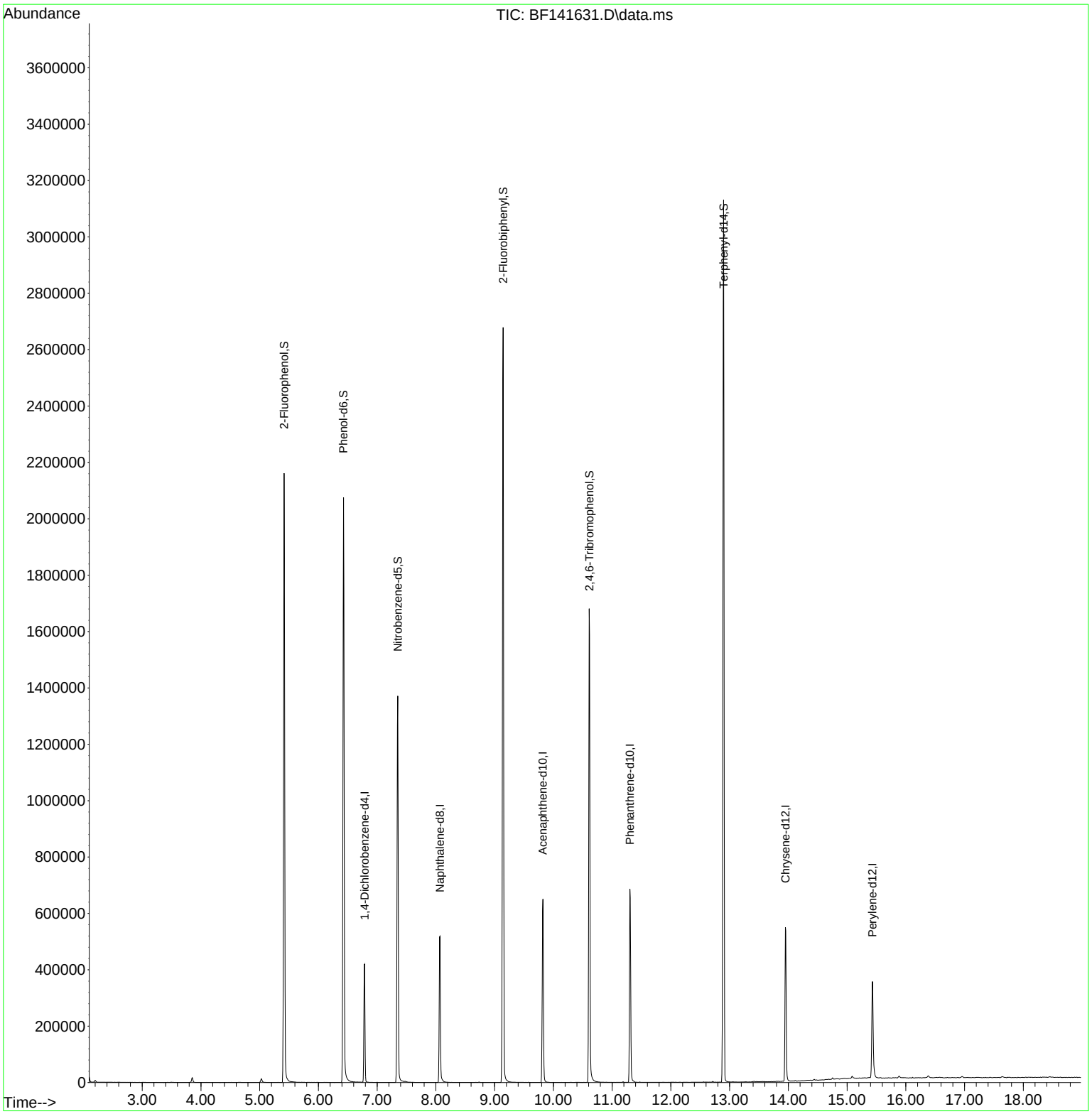
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	90404	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	375424	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	209209	20.000	ng	-0.01
64) Phenanthrene-d10	11.304	188	380647	20.000	ng	-0.01
76) Chrysene-d12	13.951	240	294933	20.000	ng	-0.01
86) Perylene-d12	15.433	264	216122	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	808396	140.188	ng	0.00
7) Phenol-d6	6.428	99	995440	136.579	ng	-0.01
23) Nitrobenzene-d5	7.351	82	661286	91.873	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	292897	139.369	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	1264783	93.140	ng	0.00
79) Terphenyl-d14	12.898	244	1614452	92.410	ng	0.00
Target Compounds						Qvalue

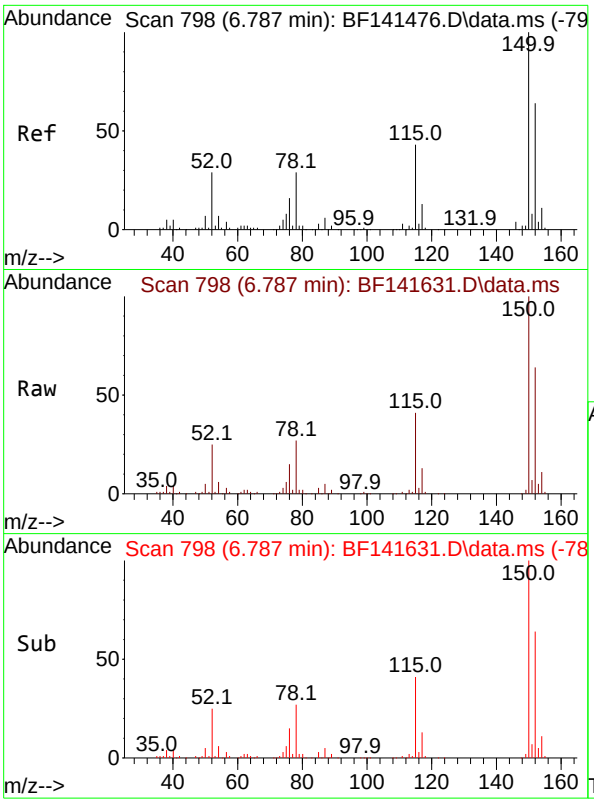
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141631.D
Acq On : 14 Feb 2025 11:21
Operator : RC/JU
Sample : PB166700TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Quant Time: Feb 14 11:50:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



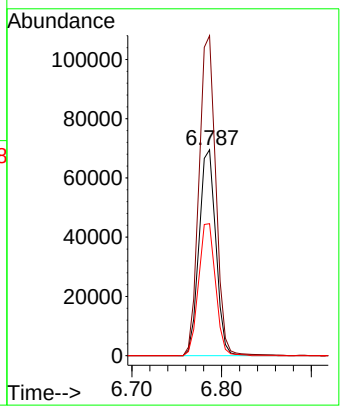


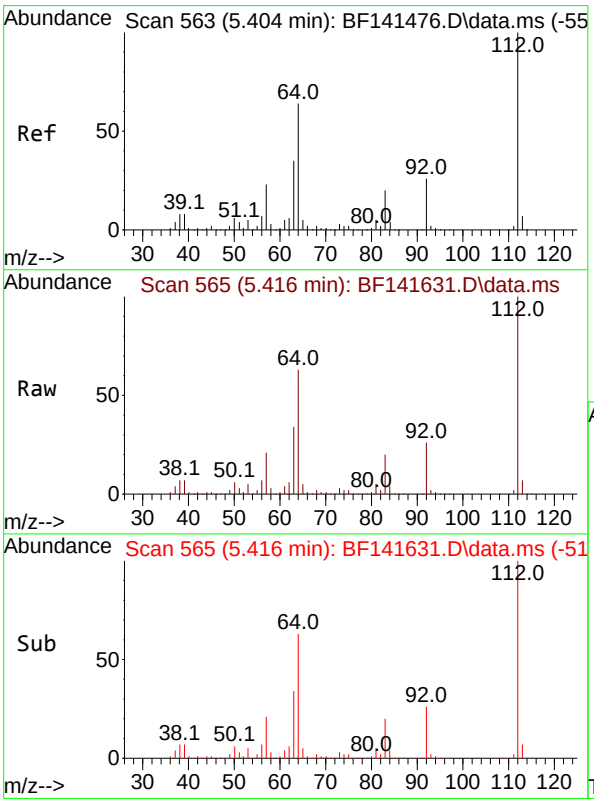
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Tgt Ion:152 Resp: 90404

Ion	Ratio	Lower	Upper
152	100		
150	155.4	125.0	187.4
115	64.1	53.6	80.4

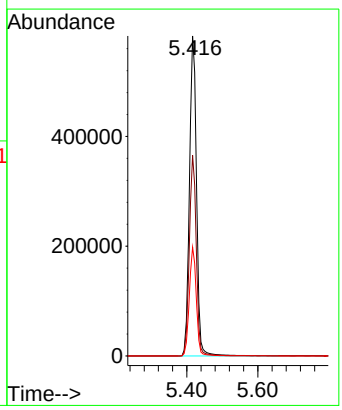


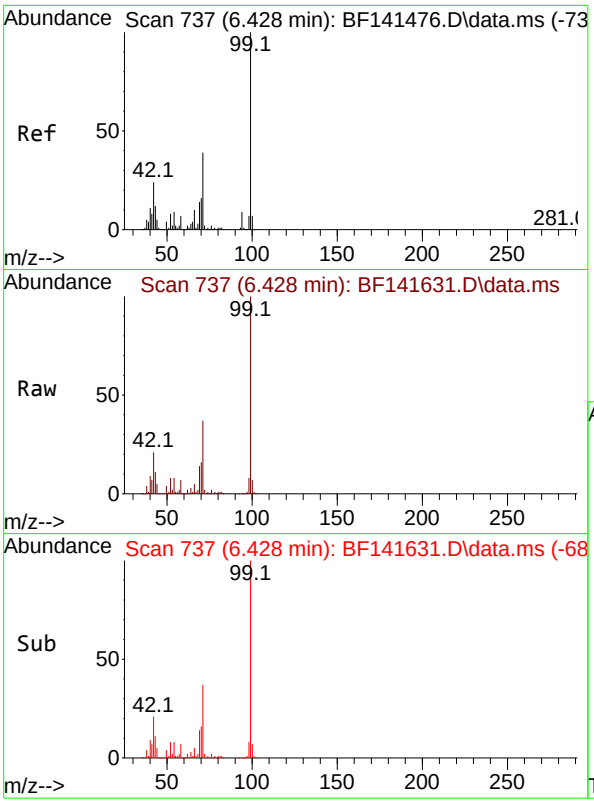


#5
2-Fluorophenol
Concen: 140.188 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Tgt Ion:112 Resp: 808396

Ion	Ratio	Lower	Upper
112	100		
64	62.7	51.1	76.7
63	34.0	28.4	42.6



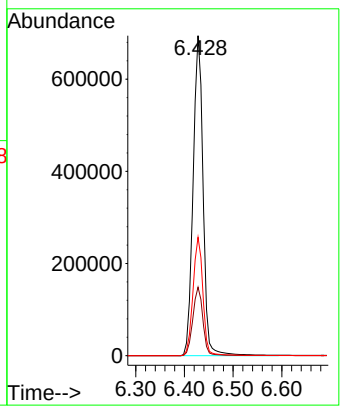


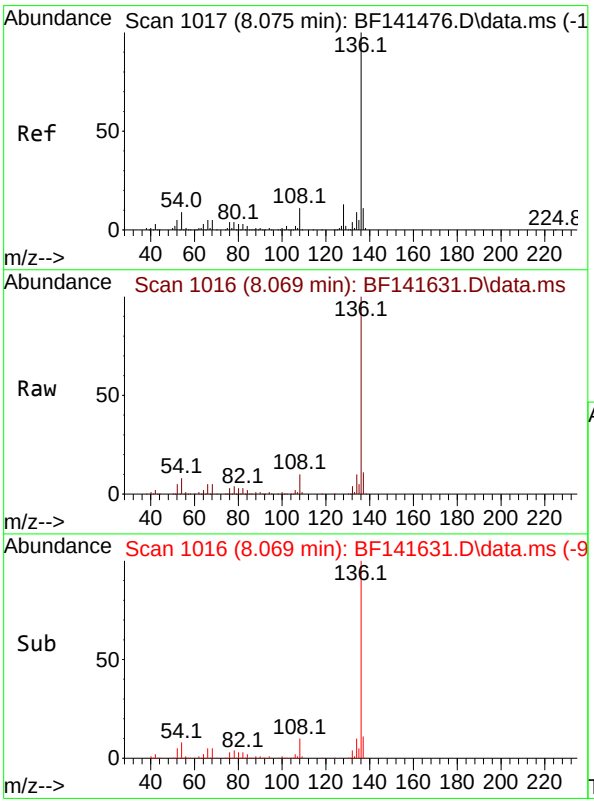
#7
Phenol-d6
Concen: 136.579 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Tgt Ion: 99 Resp: 995440

Ion	Ratio	Lower	Upper
99	100		
42	21.4	19.1	28.7
71	37.0	31.1	46.7

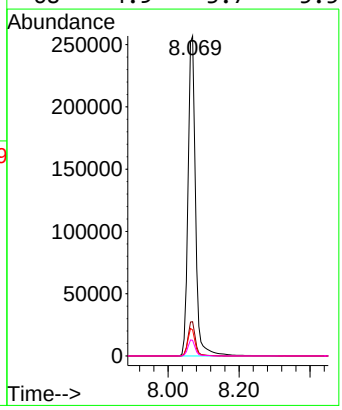


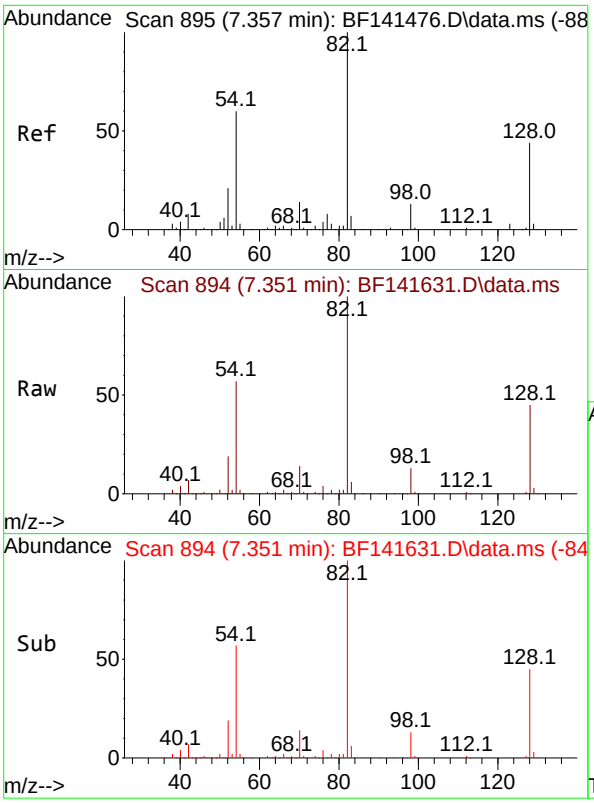


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Tgt Ion:136 Resp: 375424

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.2	7.2	10.8
68	4.9	3.7	5.5



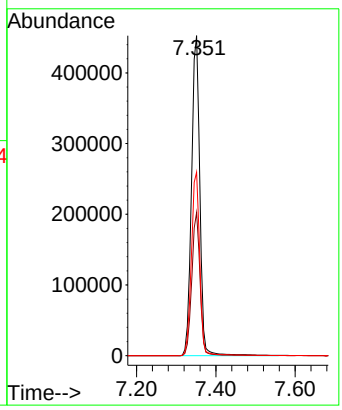


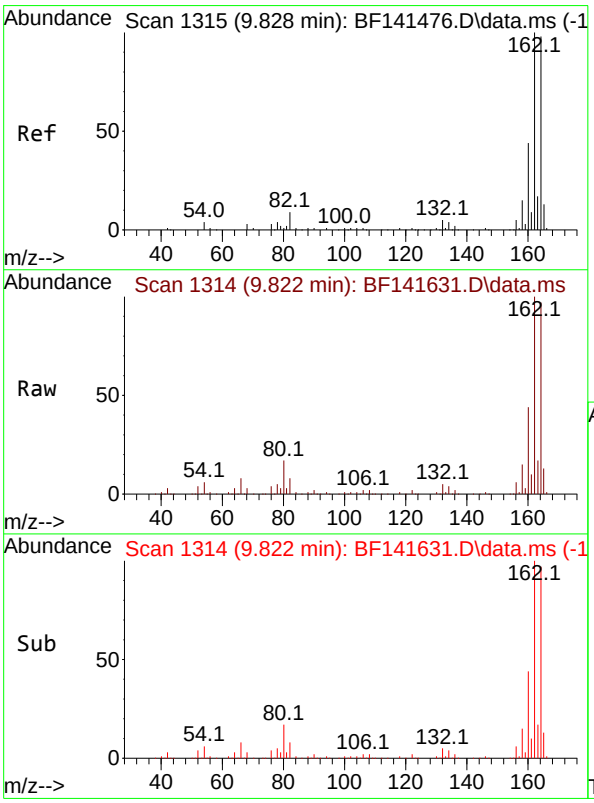
#23
Nitrobenzene-d5
Concen: 91.873 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Tgt Ion: 82 Resp: 661286

Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.8	52.2
54	57.4	48.2	72.4

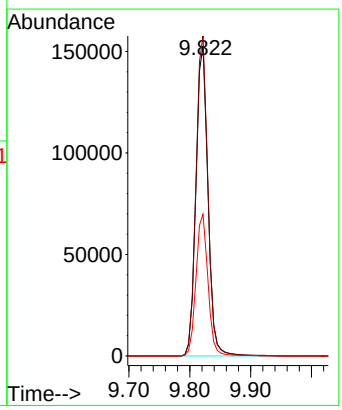


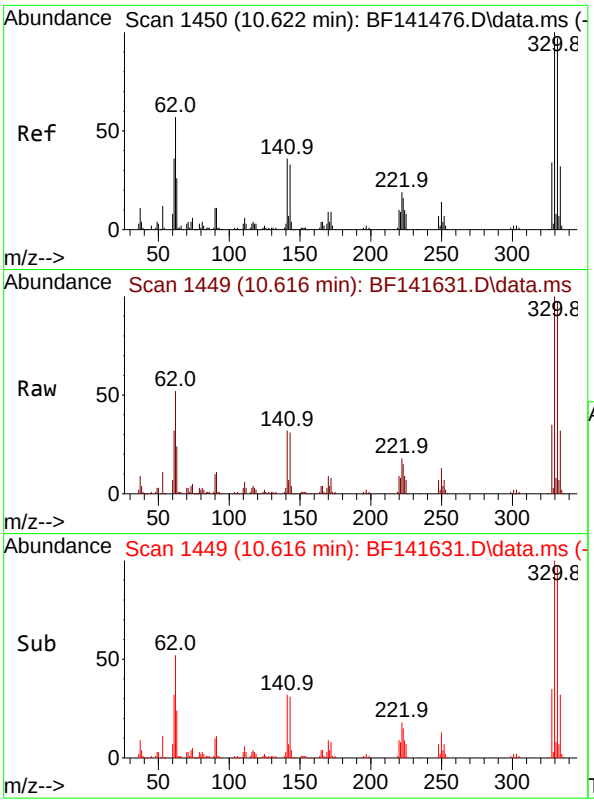


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1314
Delta R.T. -0.012 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Tgt Ion:164 Resp: 209209

Ion	Ratio	Lower	Upper
164	100		
162	103.2	81.3	121.9
160	45.8	35.9	53.9



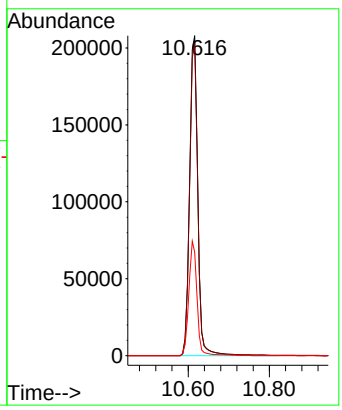


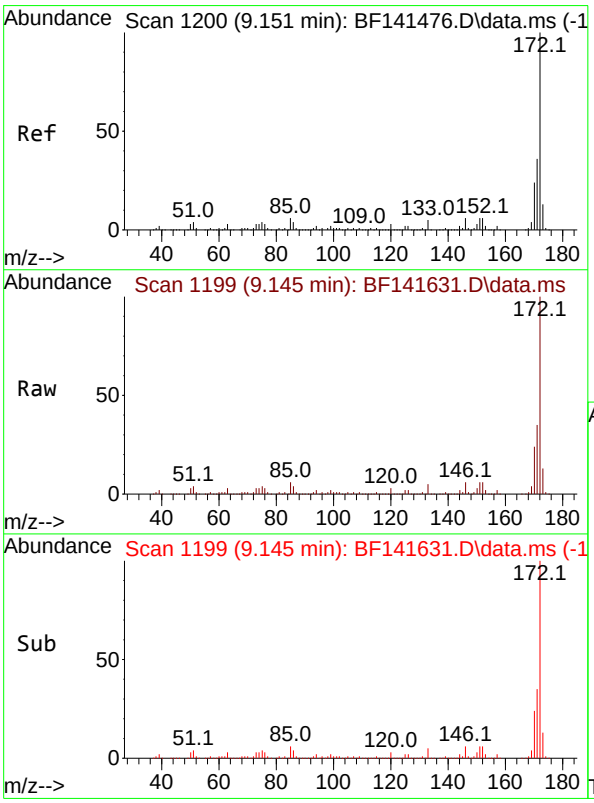
#42
2,4,6-Tribromophenol
Concen: 139.369 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Tgt Ion:330 Resp: 292897

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.5	117.7
141	35.5	31.0	46.4

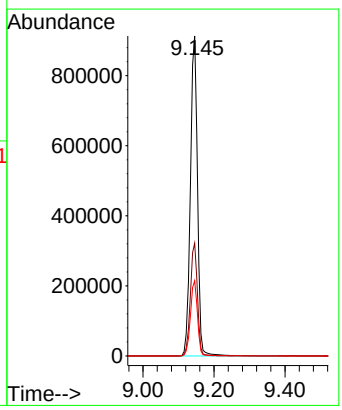


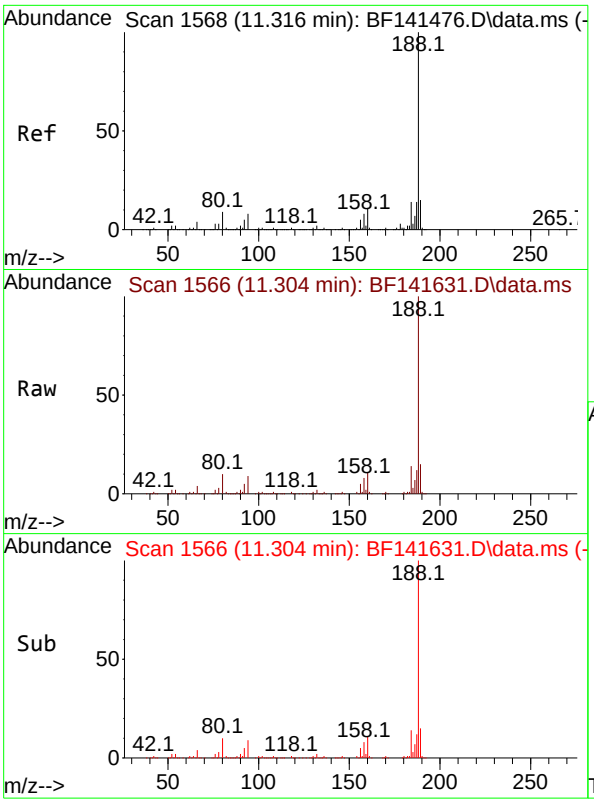


#45
2-Fluorobiphenyl
Concen: 93.140 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Tgt Ion:172 Resp: 1264783

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.5	18.9	28.3



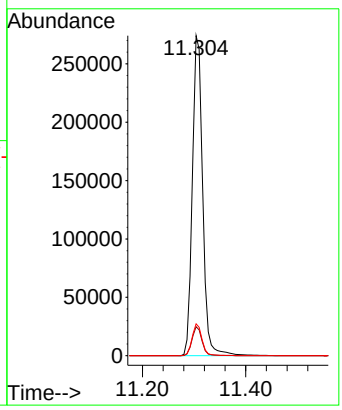


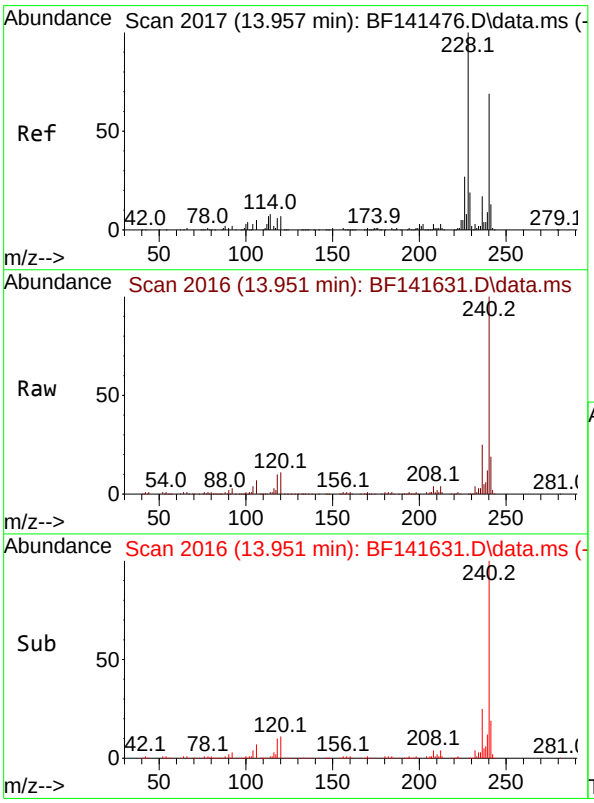
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Tgt Ion:188 Resp: 380647

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.6	10.0
80	10.0	7.3	10.9

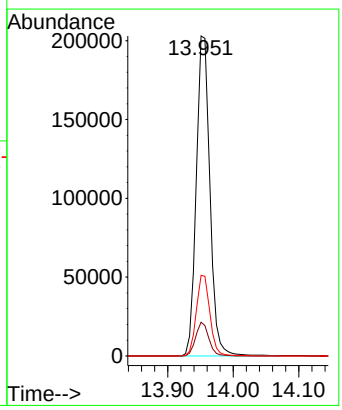


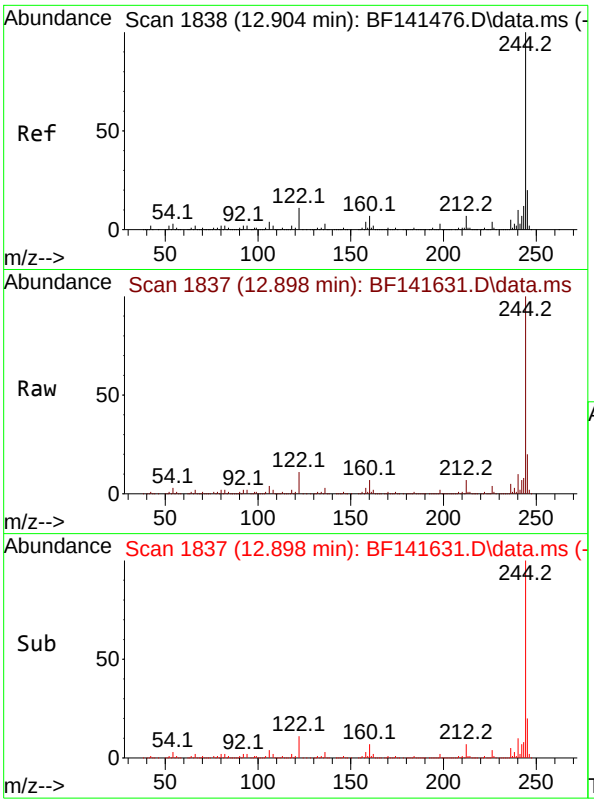


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Tgt Ion:240 Resp: 294933

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.0	12.0
236	25.2	19.8	29.8



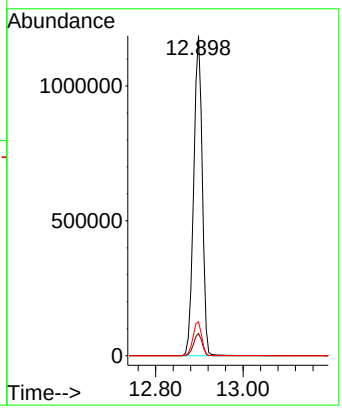


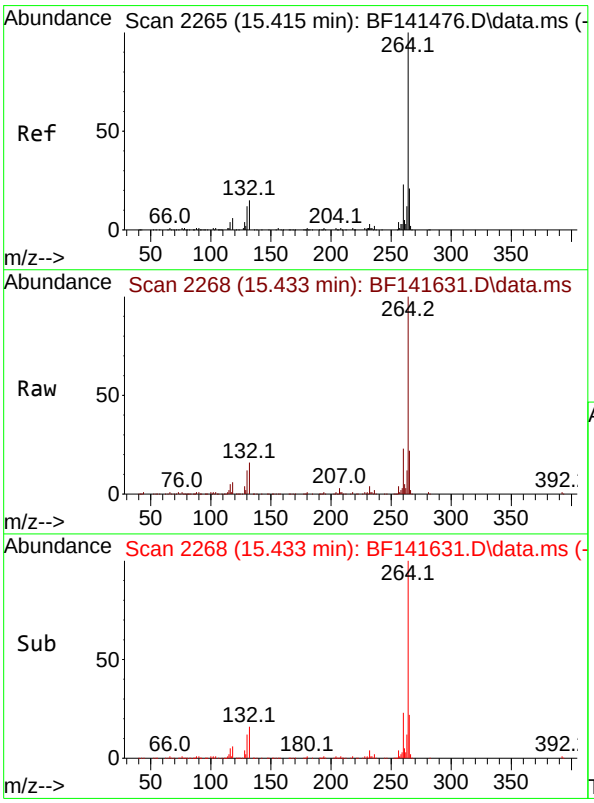
#79
Terphenyl-d14
Concen: 92.410 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Instrument :
BNA_F
ClientSampleId :
PB166700TB

Tgt Ion:244 Resp: 1614452

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.6	8.4	12.6

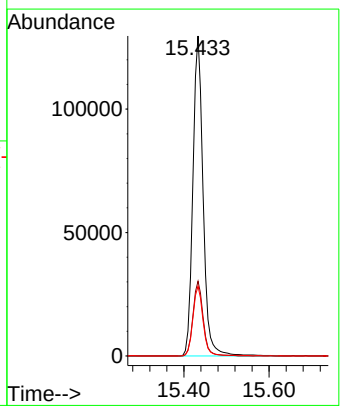




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. 0.018 min
Lab File: BF141631.D
Acq: 14 Feb 2025 11:21

Tgt Ion:264 Resp: 216122

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.8	17.0	25.4



Raw Data: **BF141633.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/10/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	TAP-IDW-SOIL-021025	SDG No.:	Q1352
Lab Sample ID:	Q1352-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF141633.D	1	02/13/25 09:00	02/14/25 12:18	PB166711

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	40.0	U	15.5	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	40.0	U	8.40	40.0	50.0	ug/L
95-48-7	2-Methylphenol	40.0	U	11.3	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	80.0	U	11.5	80.0	100	ug/L
67-72-1	Hexachloroethane	40.0	U	10.1	40.0	50.0	ug/L
98-95-3	Nitrobenzene	40.0	U	12.7	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	40.0	U	12.7	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	40.0	U	8.90	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	40.0	U	10.1	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	40.0	U	15.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	40.0	U	11.4	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	80.0	U	18.5	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	133		19 - 119		89%	SPK: 150
13127-88-3	Phenol-d6	121		10 - 130		81%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.6		44 - 120		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.0		44 - 119		92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		43 - 140		94%	SPK: 150
1718-51-0	Terphenyl-d14	103		50 - 134		103%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	86800	6.787				
1146-65-2	Naphthalene-d8	357000	8.069				
15067-26-2	Acenaphthene-d10	195000	9.822				
1517-22-2	Phenanthrene-d10	336000	11.304				
1719-03-5	Chrysene-d12	214000	13.951				
1520-96-3	Perylene-d12	169000	15.421				

Raw Data: **BF141633.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/10/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	TAP-IDW-SOIL-021025	SDG No.:	Q1352
Lab Sample ID:	Q1352-02	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
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
BF141633.D	1	02/13/25 09:00	02/14/25 12:18	PB166711

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\BF021425\
Data File : BF141633.D
Acq On : 14 Feb 2025 12:18
Operator : RC/JU
Sample : Q1352-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Quant Time: Feb 14 12:42:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

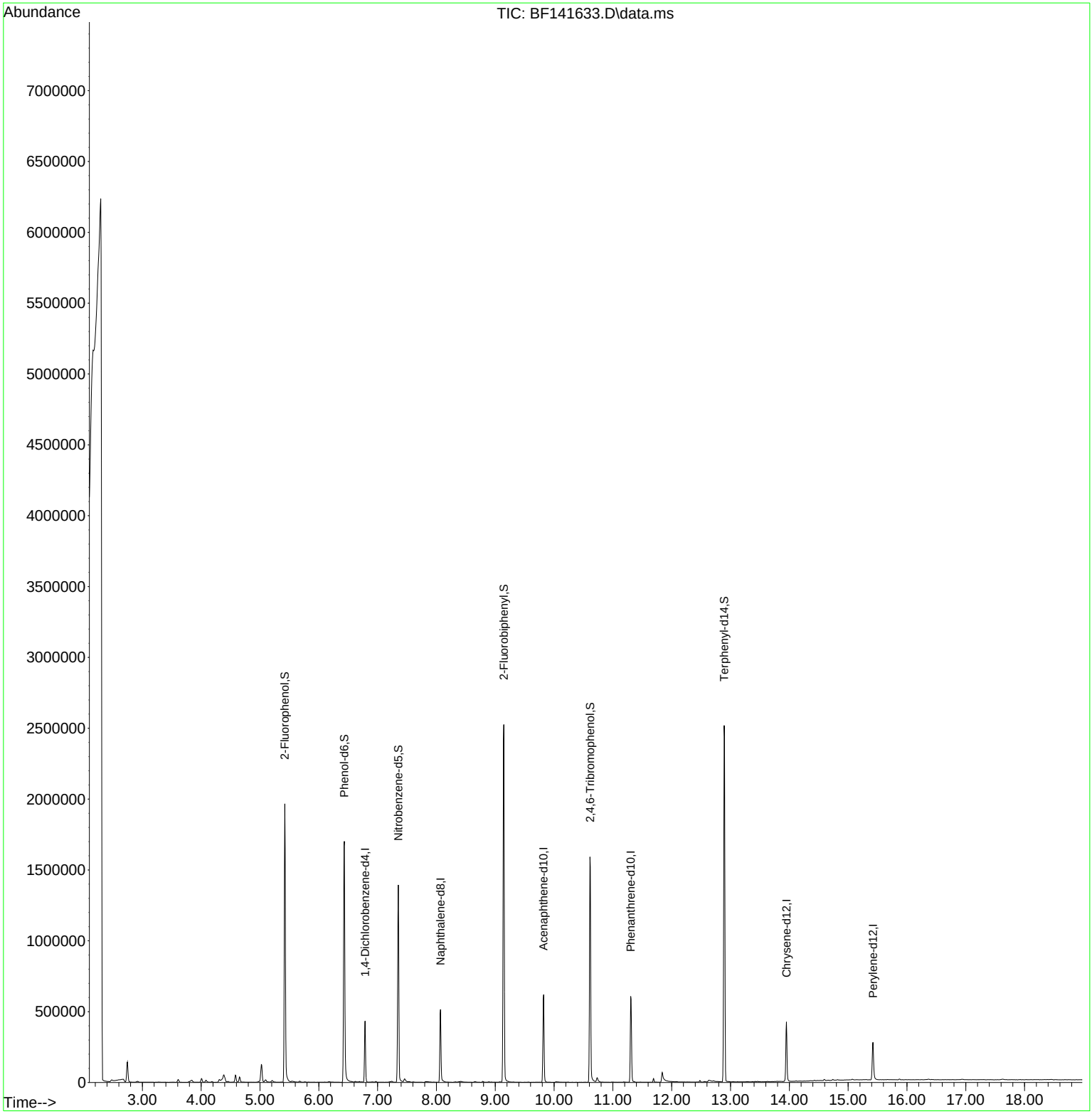
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	86790	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	356864	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	194980	20.000	ng	-0.01
64) Phenanthrene-d10	11.304	188	336266	20.000	ng	-0.01
76) Chrysene-d12	13.951	240	214163	20.000	ng	-0.01
86) Perylene-d12	15.421	264	168912	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	736906	133.112	ng	0.01
7) Phenol-d6	6.434	99	848800	121.309	ng	0.00
23) Nitrobenzene-d5	7.351	82	633459	92.585	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	275600	140.708	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	1164642	92.025	ng	0.00
79) Terphenyl-d14	12.892	244	1310634	103.313	ng	-0.01
Target Compounds						Qvalue

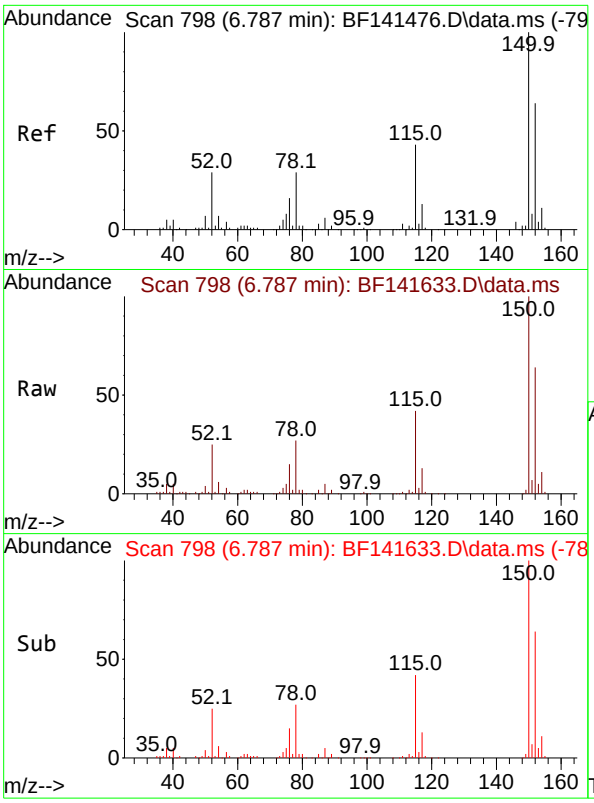
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141633.D
Acq On : 14 Feb 2025 12:18
Operator : RC/JU
Sample : Q1352-02
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Quant Time: Feb 14 12:42:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



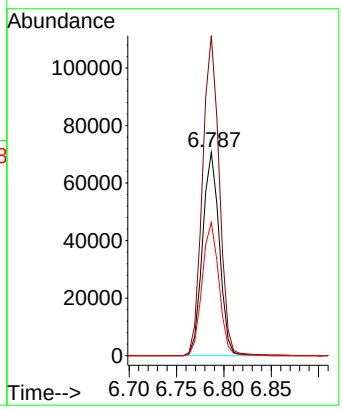


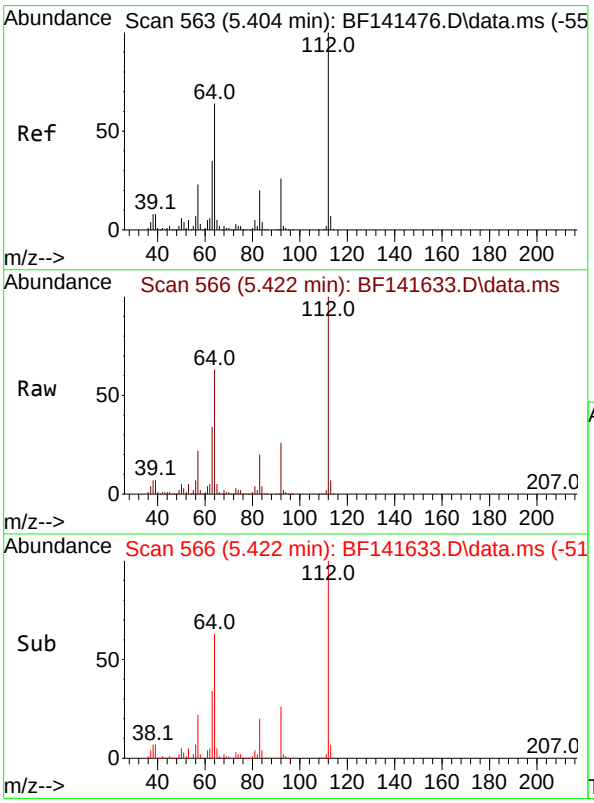
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:152 Resp: 86790

Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.0	187.4
115	65.5	53.6	80.4

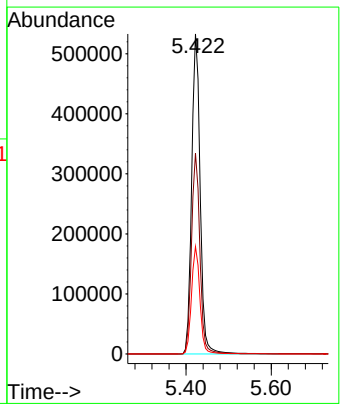


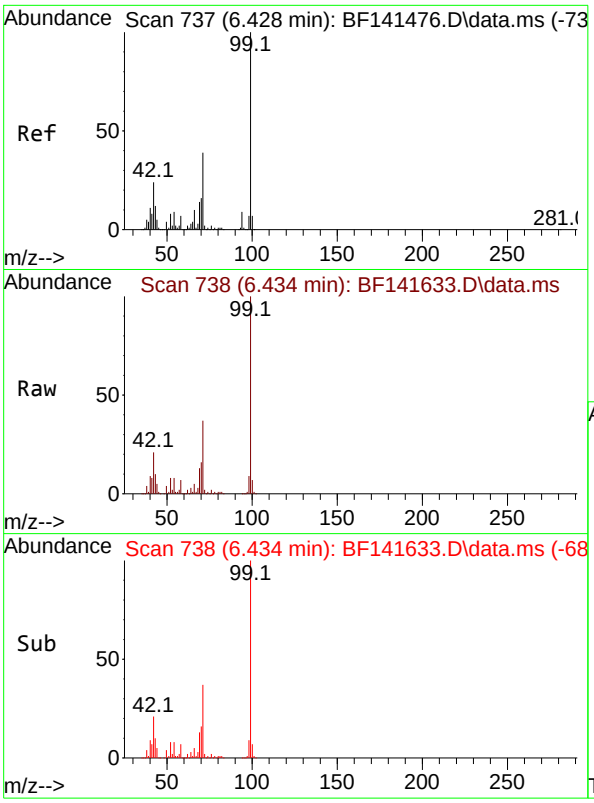


#5
2-Fluorophenol
Concen: 133.112 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Tgt Ion:112 Resp: 736906

Ion	Ratio	Lower	Upper
112	100		
64	62.7	51.1	76.7
63	33.5	28.4	42.6



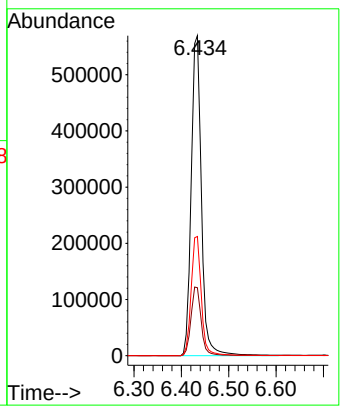


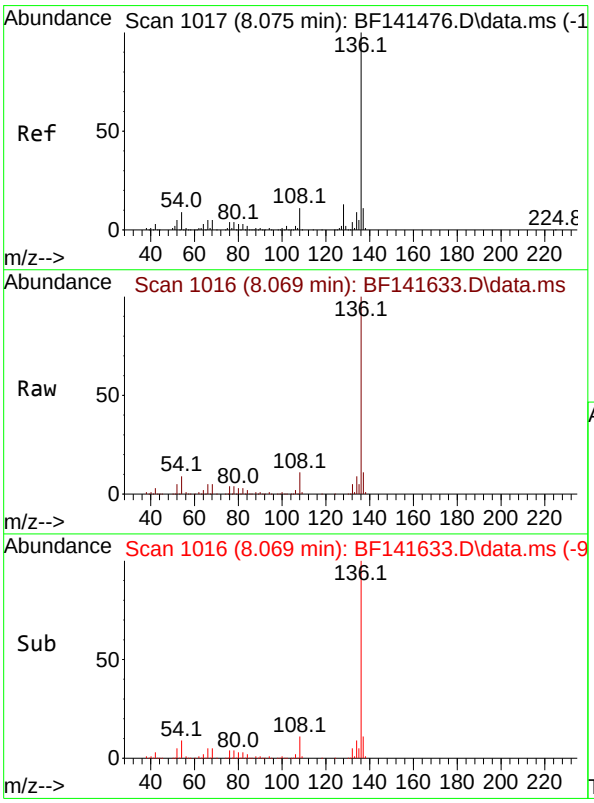
#7
Phenol-d6
Concen: 121.309 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 99 Resp: 848800

Ion	Ratio	Lower	Upper
99	100		
42	21.2	19.1	28.7
71	37.3	31.1	46.7

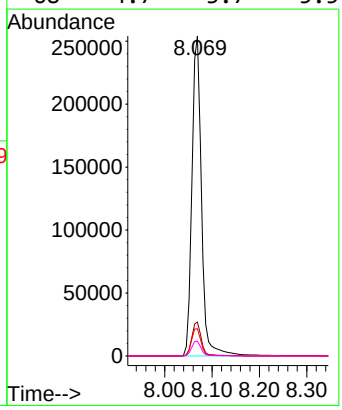


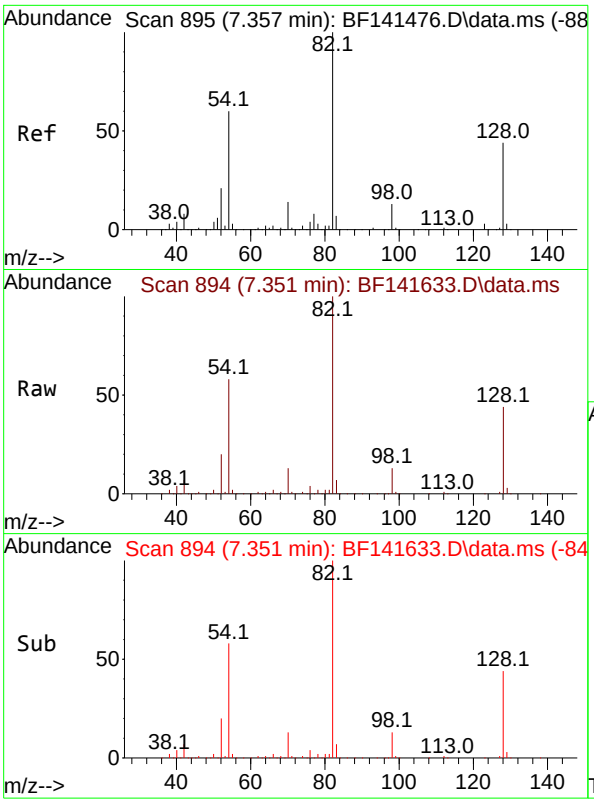


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Tgt Ion:136 Resp: 356864

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	8.5	7.2	10.8
68	4.7	3.7	5.5



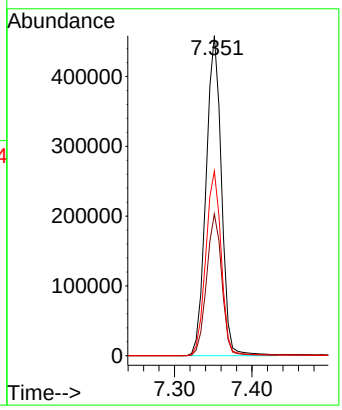


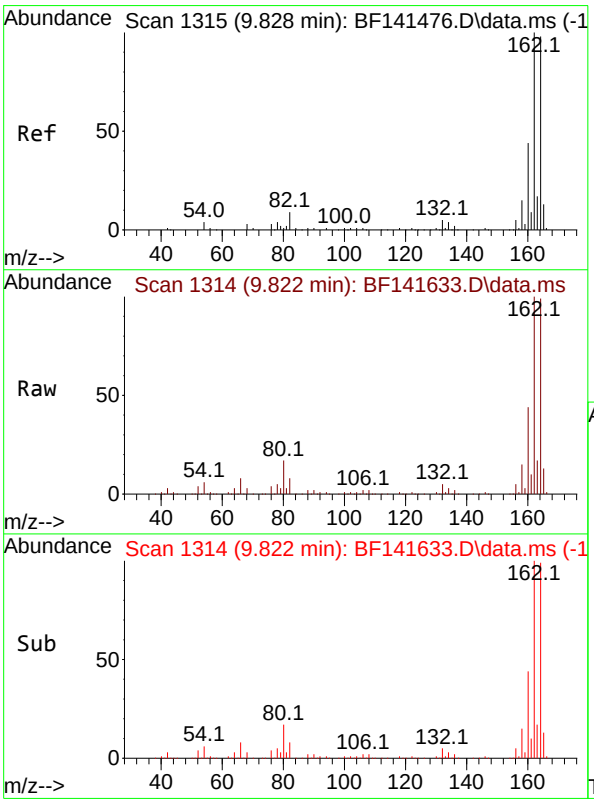
#23
Nitrobenzene-d5
Concen: 92.585 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion: 82 Resp: 633459

Ion	Ratio	Lower	Upper
82	100		
128	44.3	34.8	52.2
54	57.7	48.2	72.4

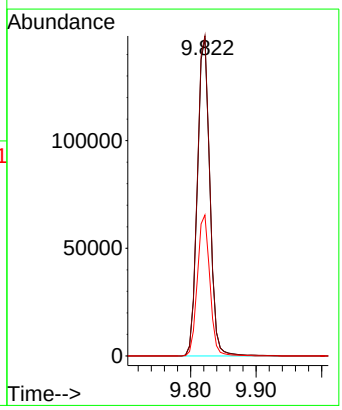


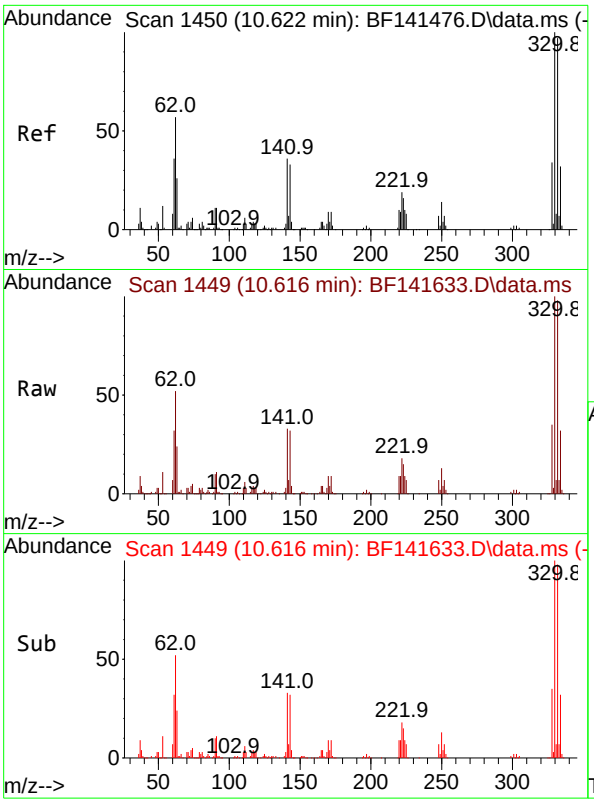


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1314
Delta R.T. -0.011 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Tgt Ion:164 Resp: 194980

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.3	121.9
160	44.4	35.9	53.9



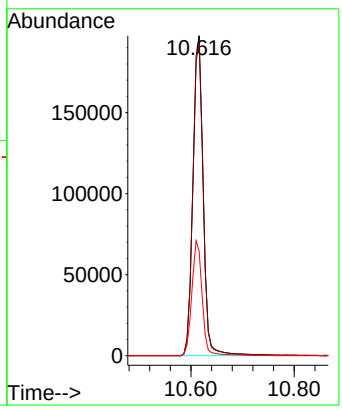


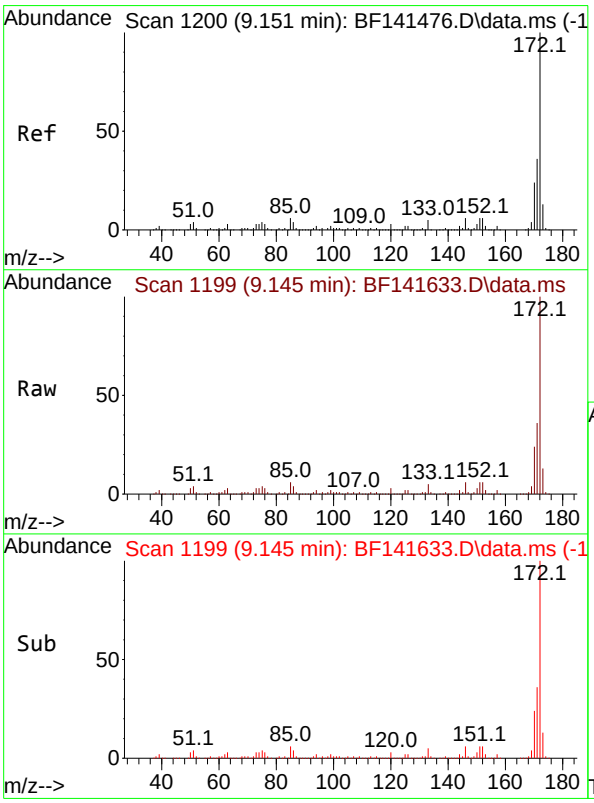
#42
2,4,6-Tribromophenol
Concen: 140.708 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:330 Resp: 275600

Ion	Ratio	Lower	Upper
330	100		
332	97.9	78.5	117.7
141	35.9	31.0	46.4

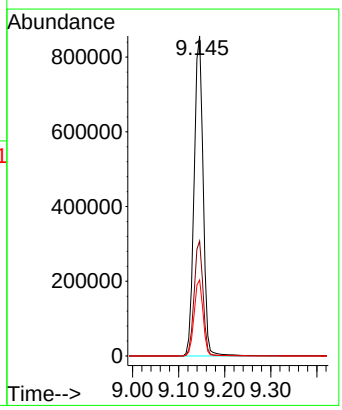


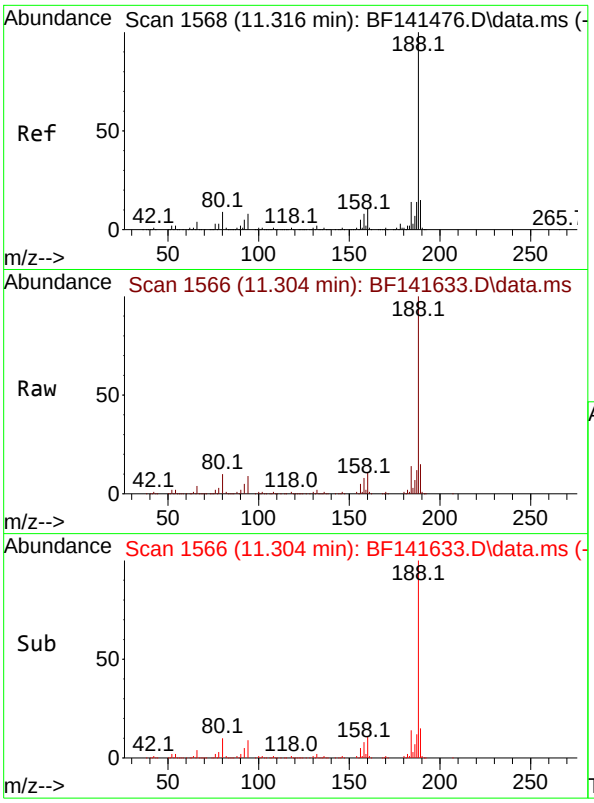


#45
2-Fluorobiphenyl
Concen: 92.025 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Tgt Ion:172 Resp: 1164642

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.7	43.1
170	23.7	18.9	28.3



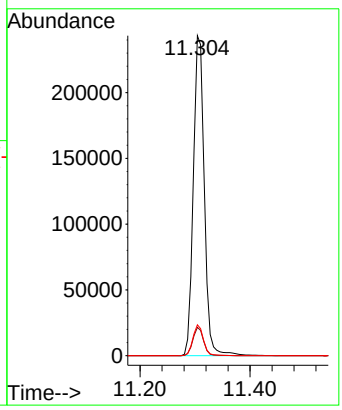


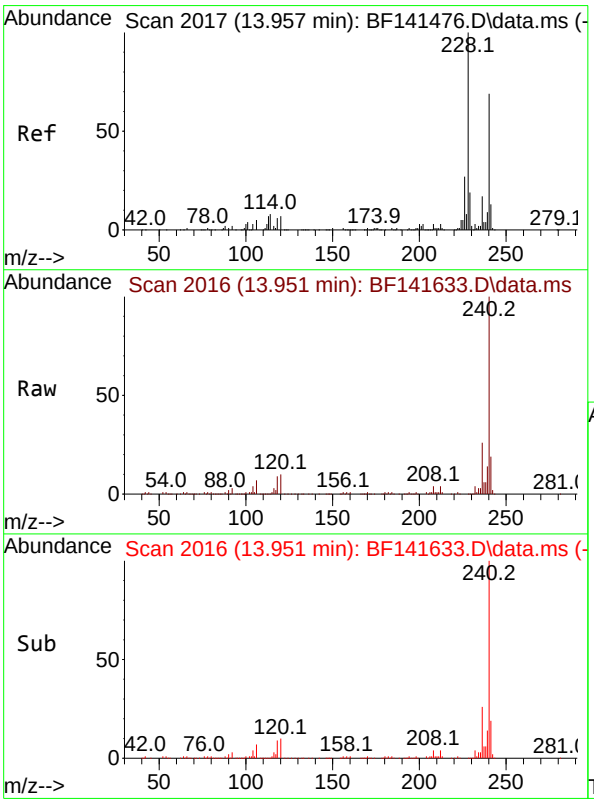
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:188 Resp: 336266

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.6	10.0
80	9.7	7.3	10.9

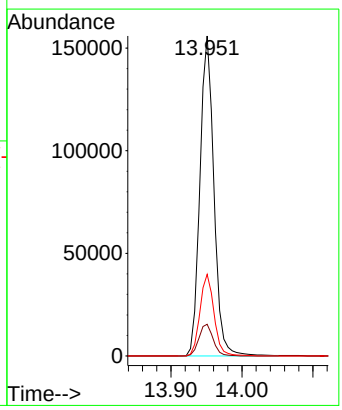


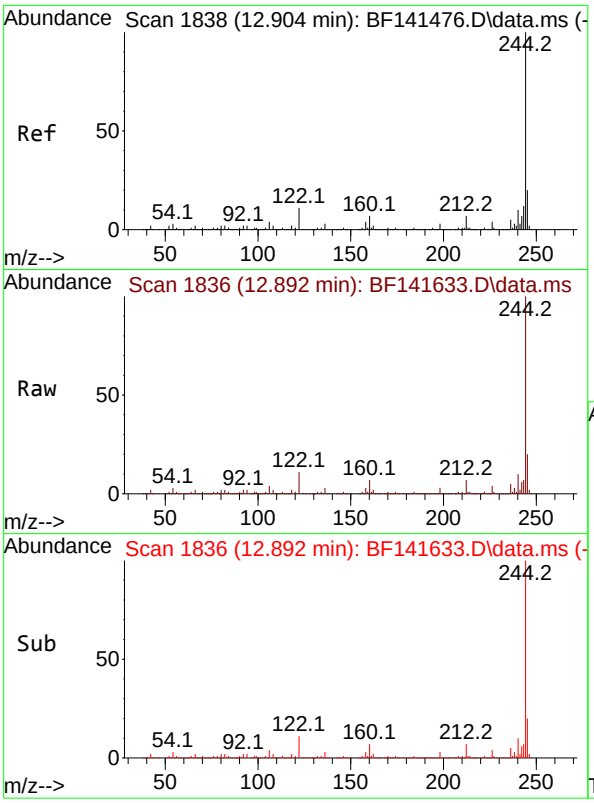


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.011 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Tgt Ion:240 Resp: 214163

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.5	19.8	29.8



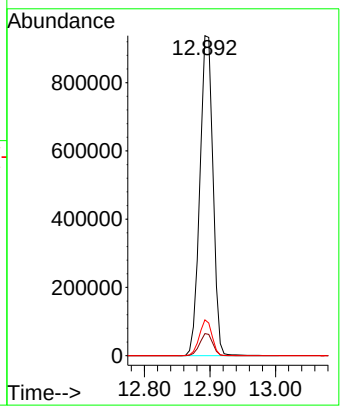


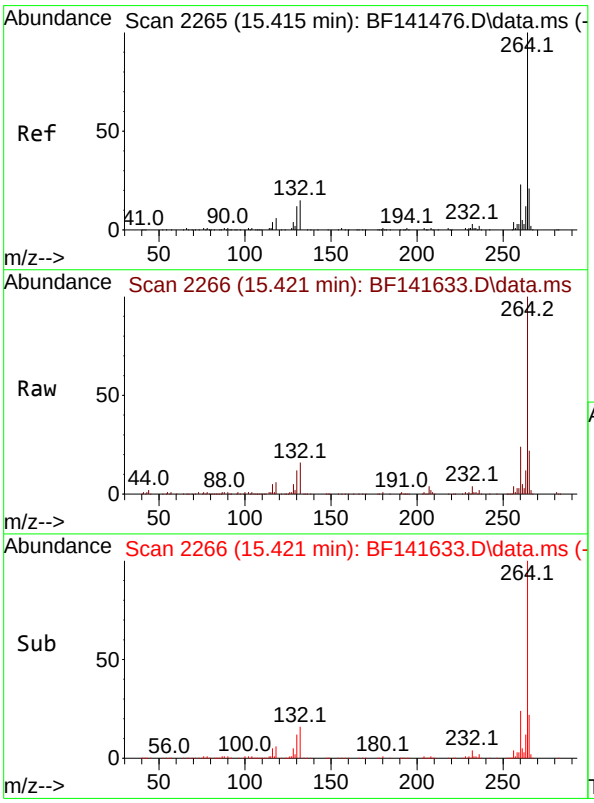
#79
Terphenyl-d14
Concen: 103.313 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Instrument :
BNA_F
ClientSampleId :
TAP-IDW-SOIL-021025

Tgt Ion:244 Resp: 1310634

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	11.2	8.4	12.6

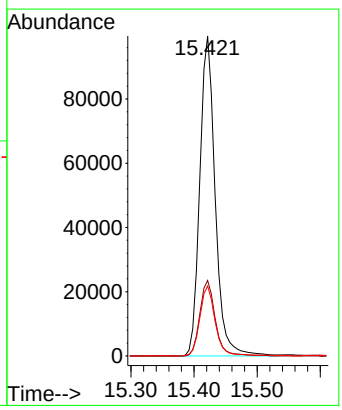




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. 0.006 min
Lab File: BF141633.D
Acq: 14 Feb 2025 12:18

Tgt Ion:264 Resp: 168912

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.9	17.0	25.4



CALIBRATION SUMMARY

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG No.: Q1352

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

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

LAB FILE ID: RRF2.5 = BF141472.D RRF005 = BF141473.D RRF010 = BF141474.D
RRF020 = BF141475.D RRF040 = BF141476.D RRF050 = BF141477.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Pyridine		1.053	1.205	1.311	1.263	1.256	1.222	6.8
2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.276	3.8
Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.612	3.1
1,4-Dichlorobenzene		1.546	1.538	1.571	1.471	1.465	1.487	4.6
2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.079	3.1
3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.371	5.5
Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.383	1.6
Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.550	3.6
Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.374	1.3
Hexachlorobutadiene		0.193	0.191	0.200	0.192	0.188	0.192	2.0
2,4,6-Trichlorophenol		0.364	0.365	0.389	0.377	0.373	0.374	2.3
2-Fluorobiphenyl		1.373	1.360	1.385	1.269	1.241	1.298	5.6
2,4,5-Trichlorophenol		0.385	0.407	0.430	0.410	0.394	0.405	3.5
2,4-Dinitrotoluene		0.383	0.403	0.414	0.398	0.390	0.395	2.8
2,4,6-Tribromophenol		0.201	0.200	0.210	0.200	0.199	0.201	2.1
Hexachlorobenzene		0.229	0.234	0.241	0.227	0.224	0.230	2.5
Pentachlorophenol		0.116	0.131	0.151	0.154	0.158	0.147	11.7
Terphenyl-d14		1.129	1.104	1.211	1.198	1.209	1.185	4.1

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_F

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

Calibration Files
2.5 =BF141472.D 5 =BF141473.D 10 =BF141474.D 20 =BF141475.D 40 =BF141476.D 50 =BF141477.D 60 =BF141478.D 80 =BF1414
79.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.511	0.519	0.523	0.517	0.502	0.521	0.501	0.513	1.73
3)		Pyridine		1.053	1.205	1.311	1.263	1.256	1.261	1.204	1.222	6.79
4)		n-Nitrosodimet...		0.737	0.774	0.820	0.818	0.835	0.846	0.833	0.809	4.83
5)	S	2-Fluorophenol		1.235	1.290	1.365	1.289	1.273	1.264	1.214	1.276	3.77
6)		Aniline		1.476	1.545	1.650	1.538	1.506	1.494	1.379	1.513	5.42
7)	S	Phenol-d6		1.619	1.629	1.704	1.613	1.599	1.585	1.538	1.612	3.13
8)		2-Chlorophenol		1.399	1.410	1.446	1.379	1.368	1.345	1.302	1.378	3.38
9)		Benzaldehyde		0.892	0.993	0.981	0.821	0.747	0.706		0.857	13.92
10)	C	Phenol		1.693	1.681	1.817	1.685	1.659	1.644	1.569	1.678	4.42
11)		bis(2-Chloroet...		1.262	1.229	1.296	1.266	1.252	1.262	1.256	1.261	1.59
12)		1,3-Dichlorobe...		1.473	1.482	1.554	1.441	1.441	1.430	1.366	1.455	3.95
13)	C	1,4-Dichlorobe...		1.546	1.538	1.571	1.471	1.465	1.439	1.379	1.487	4.59
14)		1,2-Dichlorobe...		1.393	1.439	1.473	1.374	1.351	1.345	1.285	1.380	4.55
15)		Benzyl Alcohol		1.191	1.251	1.322	1.262	1.248	1.218	1.163	1.236	4.19
16)		2,2'-oxybis(1-...		2.222	2.245	2.313	2.165	2.119	2.082	1.959	2.158	5.45
17)		2-Methylphenol		1.116	1.089	1.121	1.077	1.059	1.066	1.024	1.079	3.15
18)		Hexachloroethane		0.539	0.545	0.589	0.553	0.556	0.544	0.526	0.550	3.59
19)	P	n-Nitroso-di-n...	0.950	0.978	0.985	1.039	0.969	0.947	0.941	0.907	0.964	4.03
20)		3+4-Methylphenols		1.442	1.417	1.459	1.372	1.344	1.319	1.244	1.371	5.52
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.517	0.502	0.521	0.493	0.483	0.488	0.478	0.498	3.35
23)	S	Nitrobenzene-d5		0.380	0.379	0.396	0.385	0.378	0.381	0.384	0.383	1.58
24)		Nitrobenzene		0.370	0.371	0.383	0.374	0.369	0.375	0.376	0.374	1.29
25)		Isophorone		0.611	0.594	0.633	0.611	0.601	0.617	0.614	0.611	2.04
26)	C	2-Nitrophenol		0.171	0.175	0.190	0.193	0.190	0.193	0.191	0.186	4.91
27)		2,4-Dimethylph...		0.208	0.212	0.221	0.223	0.218	0.220	0.220	0.217	2.46
28)		bis(2-Chloroet...		0.384	0.390	0.408	0.394	0.387	0.391	0.388	0.392	2.03
29)	C	2,4-Dichloroph...		0.286	0.287	0.312	0.296	0.290	0.292	0.292	0.294	2.95
30)		1,2,4-Trichlor...		0.327	0.321	0.331	0.317	0.312	0.317	0.314	0.320	2.12
31)		Naphthalene		1.067	1.041	1.096	1.037	1.012	1.022	1.012	1.041	2.98
32)		Benzoic acid			0.186	0.217	0.229	0.233	0.243	0.246	0.226	9.70
33)		4-Chloroaniline		0.354	0.352	0.382	0.364	0.360	0.364	0.370	0.363	2.82
34)	C	Hexachlorobuta...		0.193	0.191	0.200	0.192	0.188	0.191	0.189	0.192	2.01
35)		Caprolactam		0.083	0.085	0.094	0.093	0.088	0.091	0.092	0.089	4.75
36)	C	4-Chloro-3-met...		0.310	0.324	0.342	0.329	0.324	0.325	0.324	0.325	2.91
37)		2-Methylnaphth...		0.688	0.689	0.719	0.669	0.659	0.666	0.652	0.677	3.42
38)		1-Methylnaphth...		0.680	0.657	0.691	0.656	0.637	0.640	0.631	0.656	3.40

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

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

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

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

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

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

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

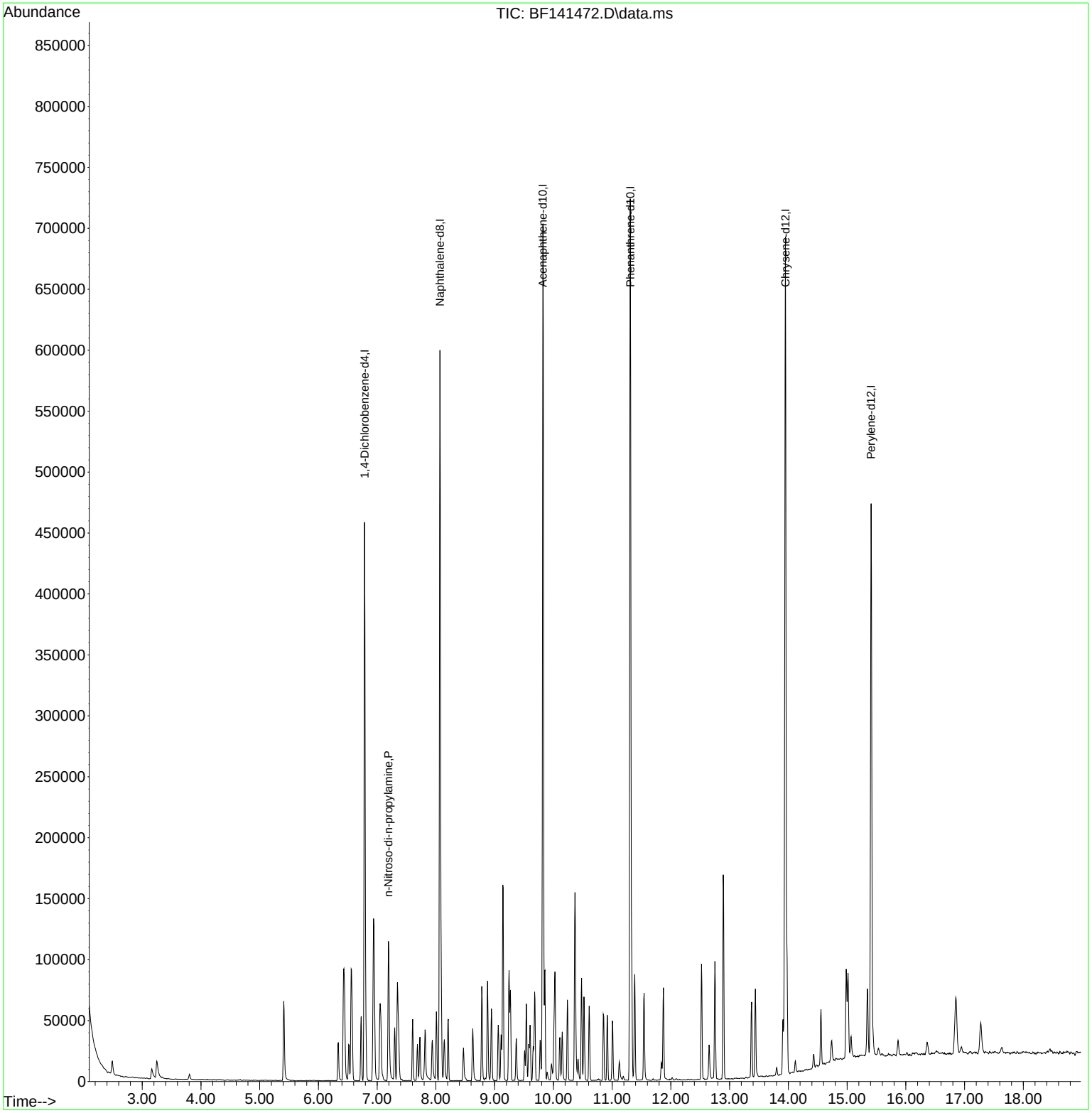
(#) = qualifier out of range (m) = manual integration (+) = signals summed

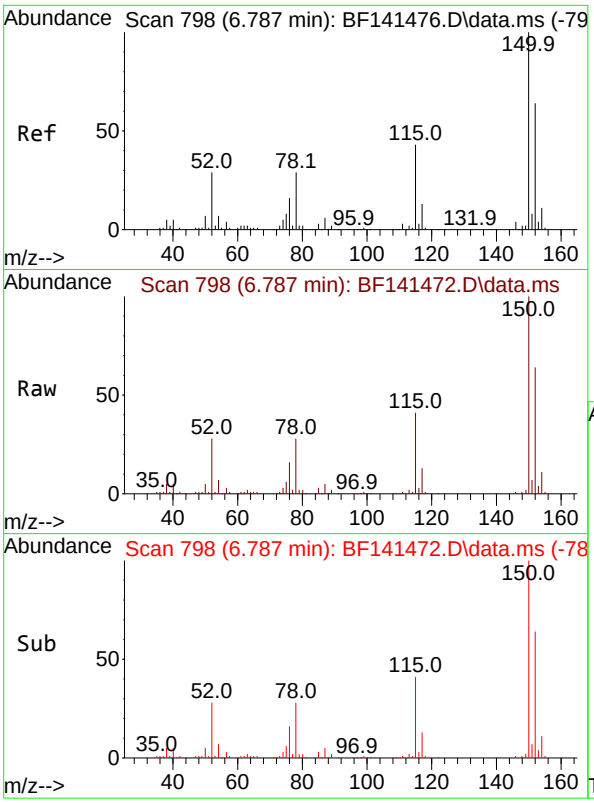
ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

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



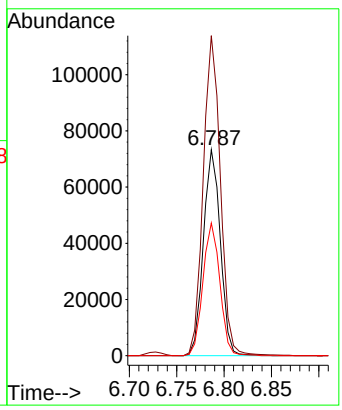


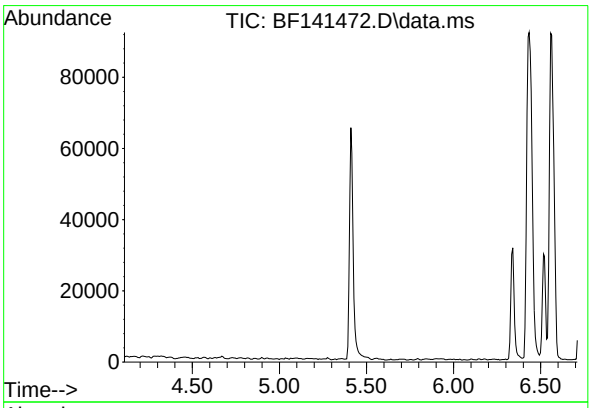
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 91402

Ion	Ratio	Lower	Upper
152	100		
150	155.4	125.0	187.4
115	64.4	53.6	80.4



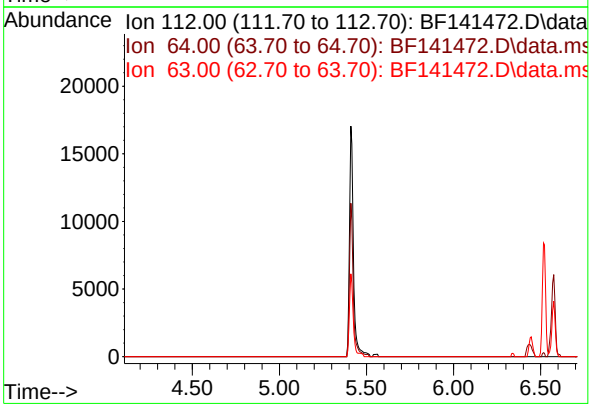


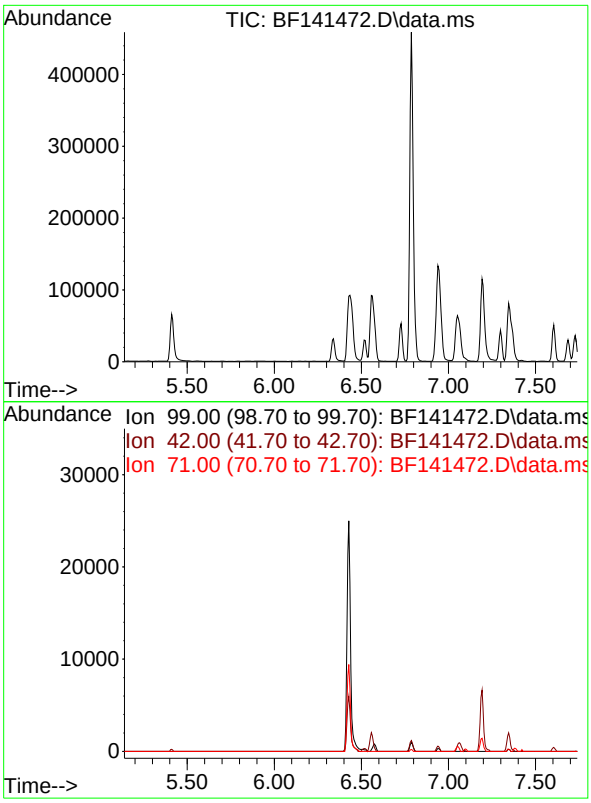
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.41 min

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

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	63.9
63	35.5





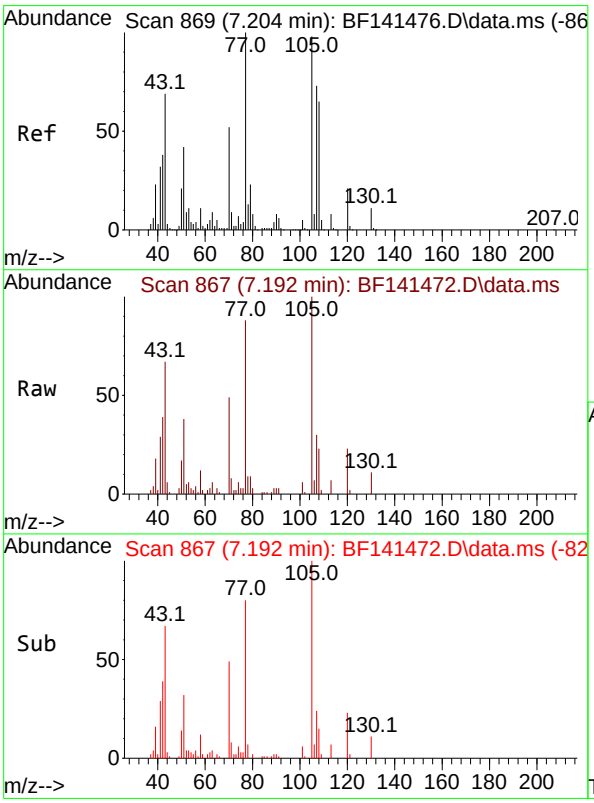
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.44 min

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

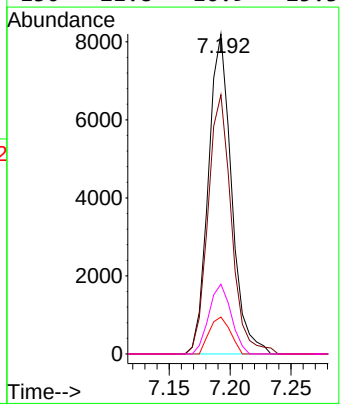
Sig	Exp Ratio
99	100
42	23.9
71	38.9

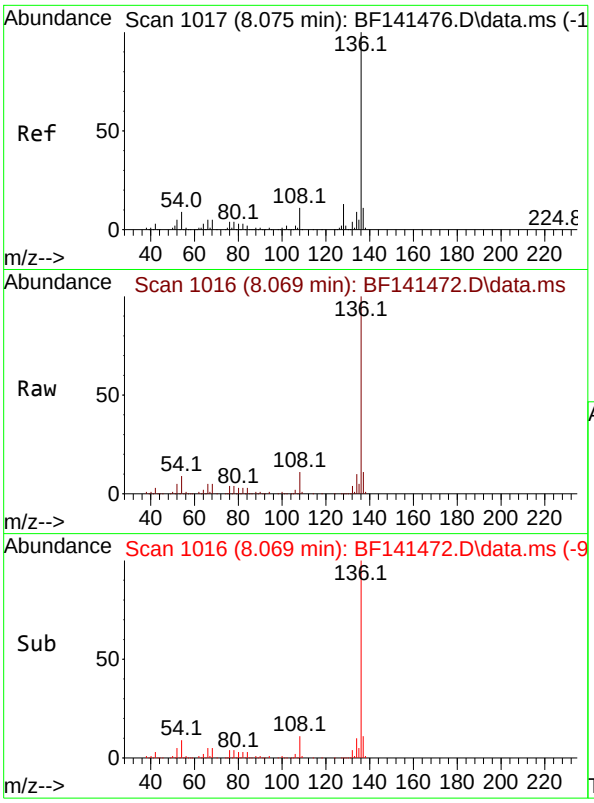


#19
n-Nitroso-di-n-propylamine
Concen: 2.462 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.023 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion: 70 Resp: 10850

Ion	Ratio	Lower	Upper
70	100		
42	81.0	57.4	86.2
101	11.5	8.0	12.0
130	21.8	16.9	25.3



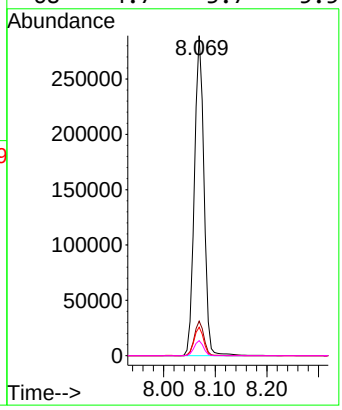


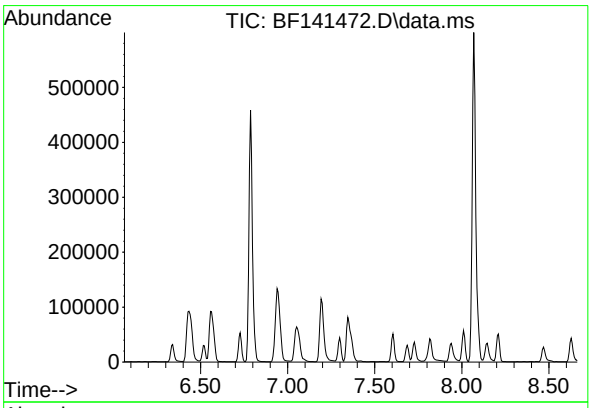
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 372084

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



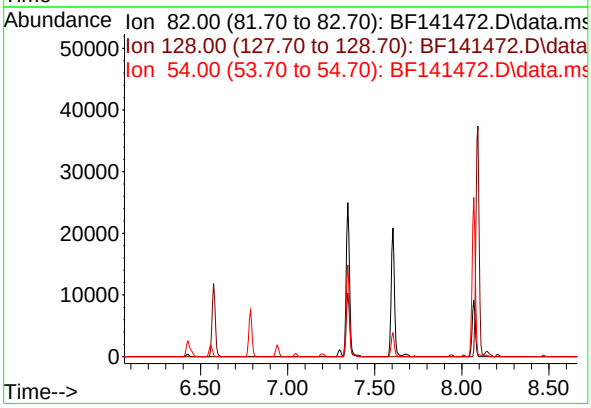


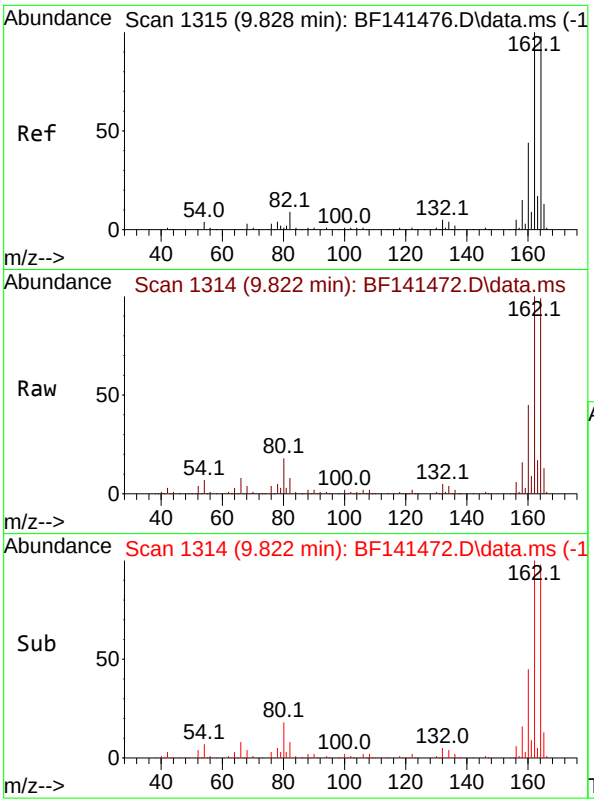
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.36 min

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

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	43.5
54	60.3



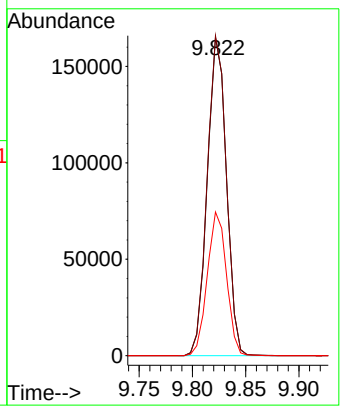


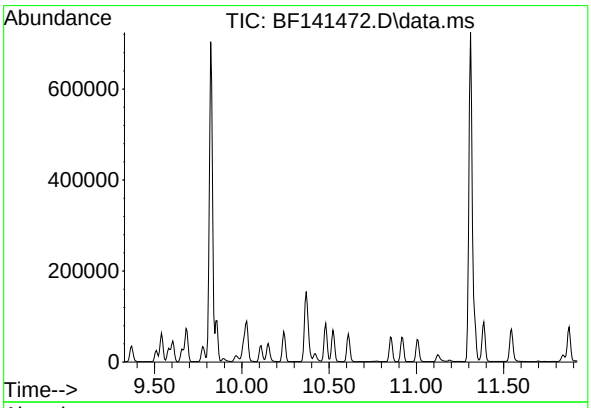
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 206500

Ion	Ratio	Lower	Upper
164	100		
162	100.5	81.3	121.9
160	45.1	35.9	53.9



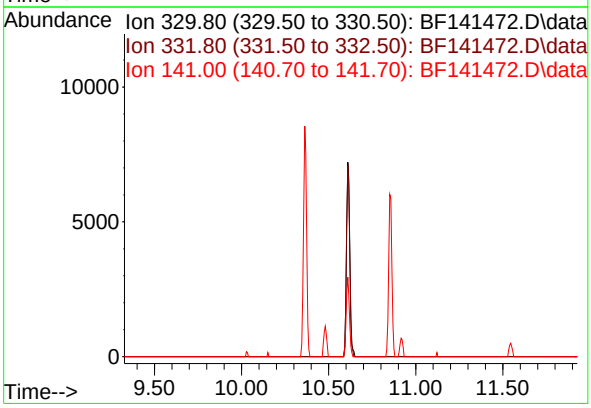


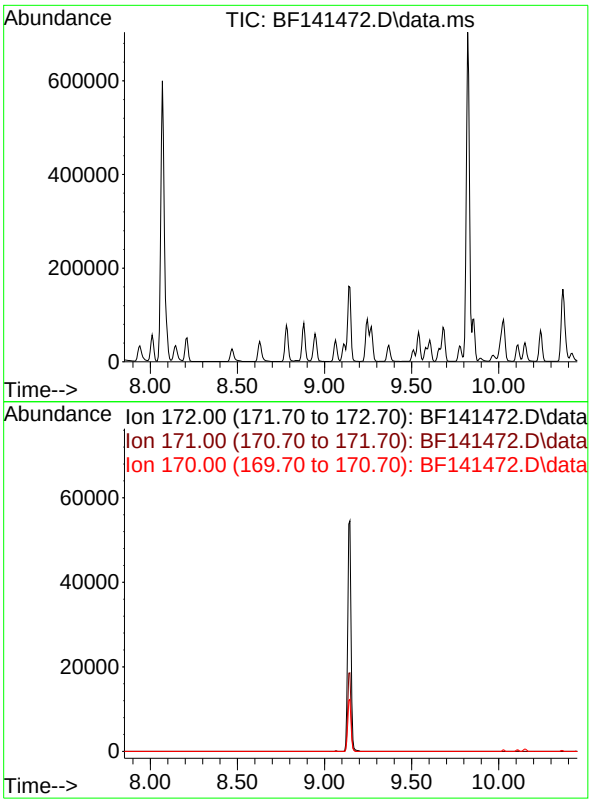
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.63 min

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

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	98.1
141	38.7





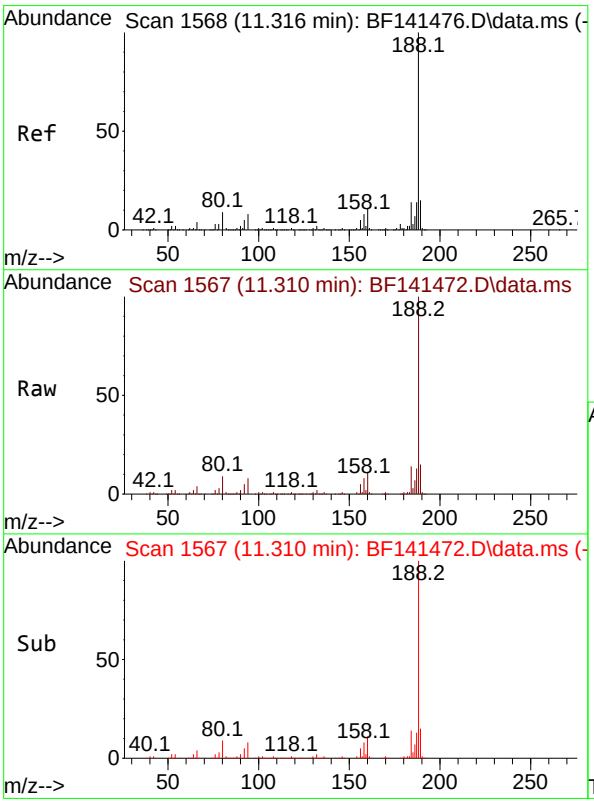
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.15 min

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

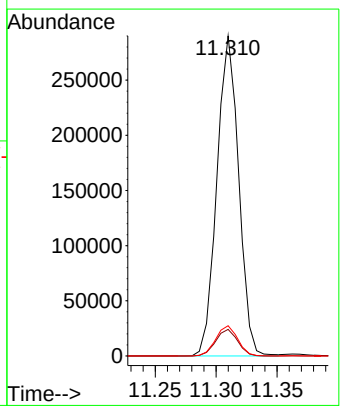
Sig	Exp Ratio
172	100
171	35.9
170	23.6

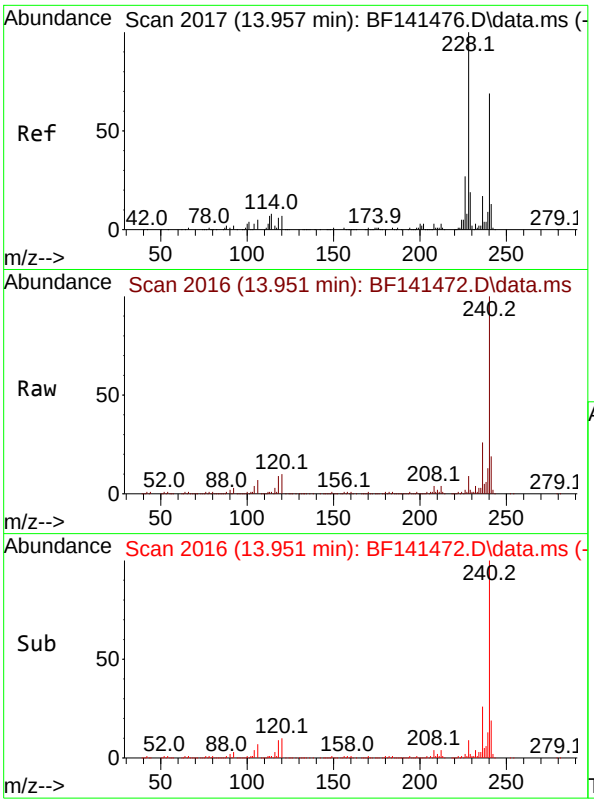


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Tgt Ion:188 Resp: 361595

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.5	7.3	10.9



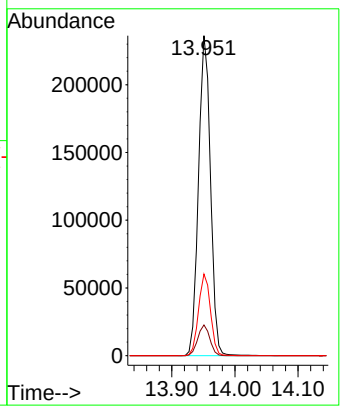


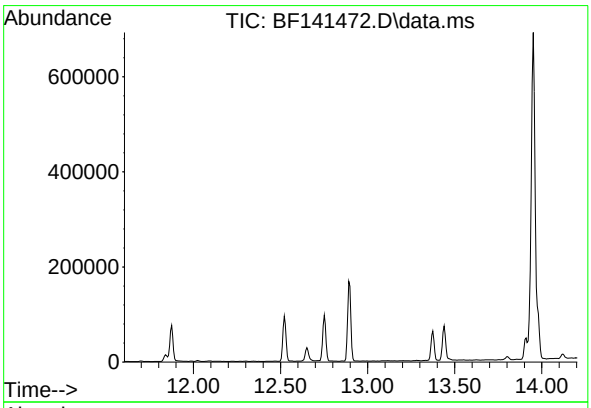
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 309941

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.5	19.8	29.8



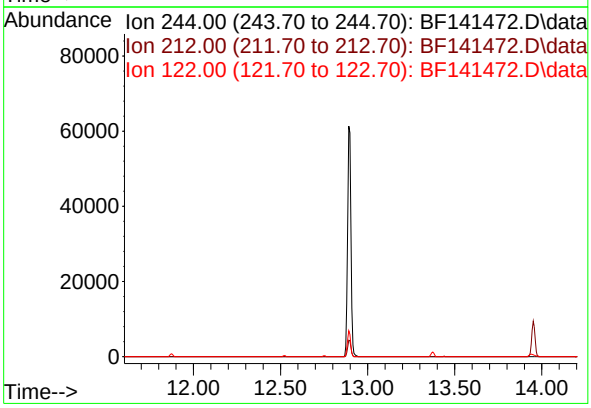


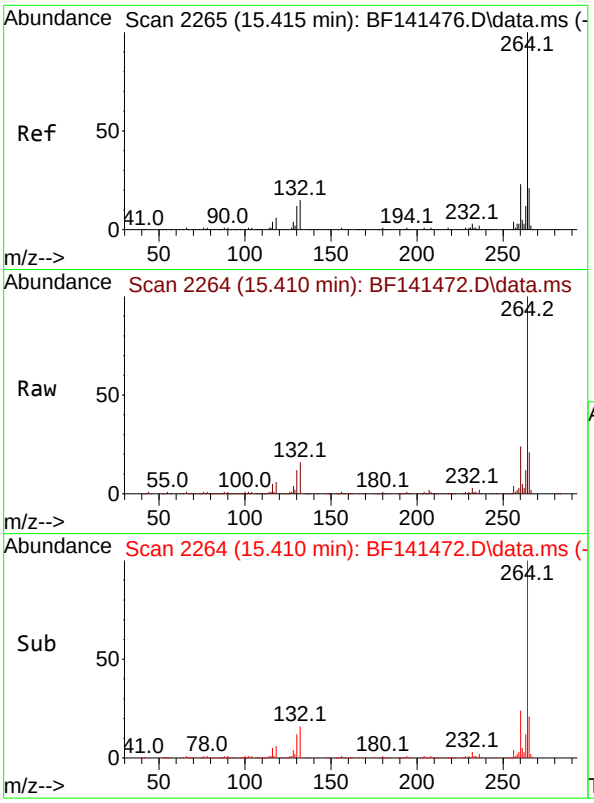
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.90 min

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

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.0
122	10.5



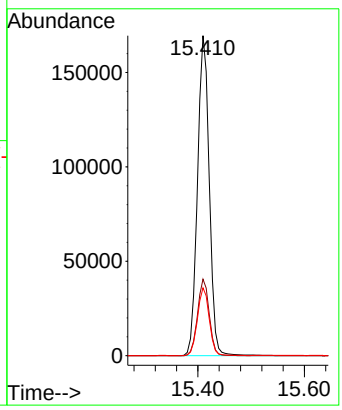


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141472.D
Acq: 06 Feb 2025 11:07

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 259363

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	28.0
265	21.2	17.0	25.4



Quantitation Report (QT Reviewed)

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	89396	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	358966	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	199514	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	351213	20.000	ng		0.00
76) Chrysene-d12	13.951	240	295087	20.000	ng		-0.01
86) Perylene-d12	15.410	264	233325	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	55200	9.680	ng		0.00
7) Phenol-d6	6.422	99	72376	10.042	ng		-0.02
23) Nitrobenzene-d5	7.345	82	68257	9.918	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	20060	10.009	ng		-0.02
45) 2-Fluorobiphenyl	9.145	172	136925	10.573	ng		0.00
79) Terphenyl-d14	12.892	244	166601	9.531	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.487	88	11419	4.976	ng		95
3) Pyridine	3.228	79	23540	4.310	ng		97
4) n-Nitrosodimethylamine	3.152	42	16481	4.558	ng	#	96
6) Aniline	6.445	93	32993	4.880	ng		97
8) 2-Chlorophenol	6.575	128	31263	5.074	ng		99
9) Benzaldehyde	6.334	77	19944	5.207	ng		94
10) Phenol	6.440	94	37833	5.044	ng		97
11) bis(2-Chloroethyl)ether	6.522	93	28203	5.006	ng		97
12) 1,3-Dichlorobenzene	6.728	146	32913	5.060	ng		99
13) 1,4-Dichlorobenzene	6.804	146	34555	5.199	ng		97
14) 1,2-Dichlorobenzene	6.957	146	31141	5.049	ng		96
15) Benzyl Alcohol	6.928	79	26612	4.815	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.063	45	49667	5.150	ng		99
17) 2-Methylphenol	7.045	107	24939	5.173	ng		96
18) Hexachloroethane	7.298	117	12043	4.896	ng		98
19) n-Nitroso-di-n-propyla...	7.192	70	21865	5.072	ng		97
20) 3+4-Methylphenols	7.198	107	32221	5.258	ng		94
22) Acetophenone	7.192	105	46441	5.201	ng		95
24) Nitrobenzene	7.363	77	33173	4.943	ng		99
25) Isophorone	7.604	82	54796	4.993	ng		99
26) 2-Nitrophenol	7.687	139	15331	4.592	ng		97
27) 2,4-Dimethylphenol	7.728	122	18659	4.784	ng		99
28) bis(2-Chloroethoxy)met...	7.816	93	34469	4.902	ng		100
29) 2,4-Dichlorophenol	7.934	162	25667	4.870	ng		97
30) 1,2,4-Trichlorobenzene	8.010	180	29321	5.109	ng		96
31) Naphthalene	8.092	128	95730	5.123	ng		99
33) 4-Chloroaniline	8.145	127	31729	4.864	ng		98
34) Hexachlorobutadiene	8.210	225	17323	5.028	ng		98
35) Caprolactam	8.475	113	7437	4.635	ng		94
36) 4-Chloro-3-methylphenol	8.628	107	27818	4.765	ng		98
37) 2-Methylnaphthalene	8.781	142	61742	5.078	ng		97
38) 1-Methylnaphthalene	8.881	142	61026	5.182	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	29023	5.028	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	18144	4.863	ng		99
44) 2,4,5-Trichlorophenol	9.110	196	19204	4.750	ng		98
46) 1,1'-Biphenyl	9.245	154	78931	5.103	ng		100

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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

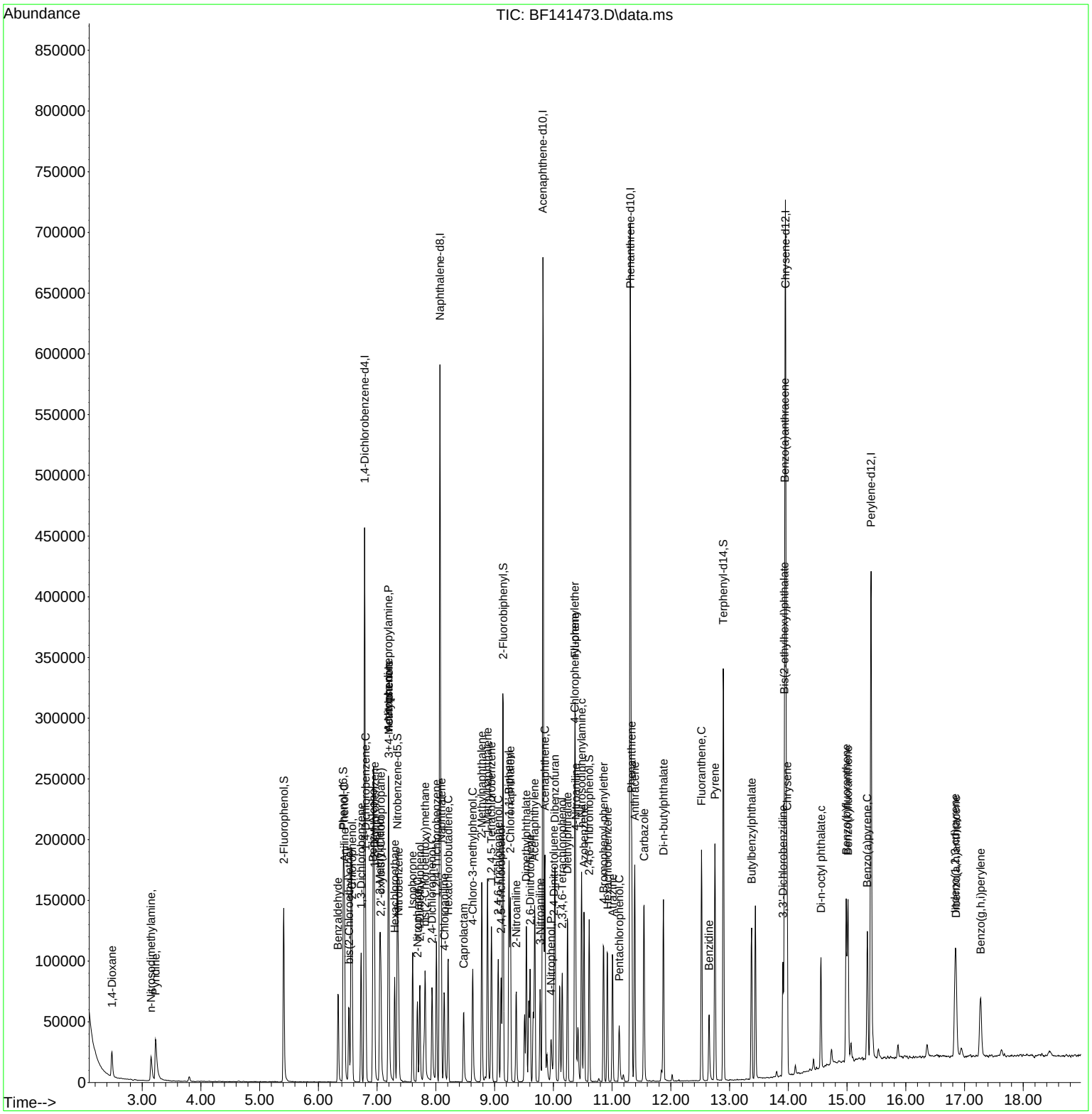
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	9.269	162	58201	5.088	ng		100
48) 2-Nitroaniline	9.369	65	18494	4.818	ng		98
49) Acenaphthylene	9.681	152	86721	5.097	ng		100
50) Dimethylphthalate	9.539	163	68921	5.088	ng		99
51) 2,6-Dinitrotoluene	9.604	165	14394	4.861	ng		94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

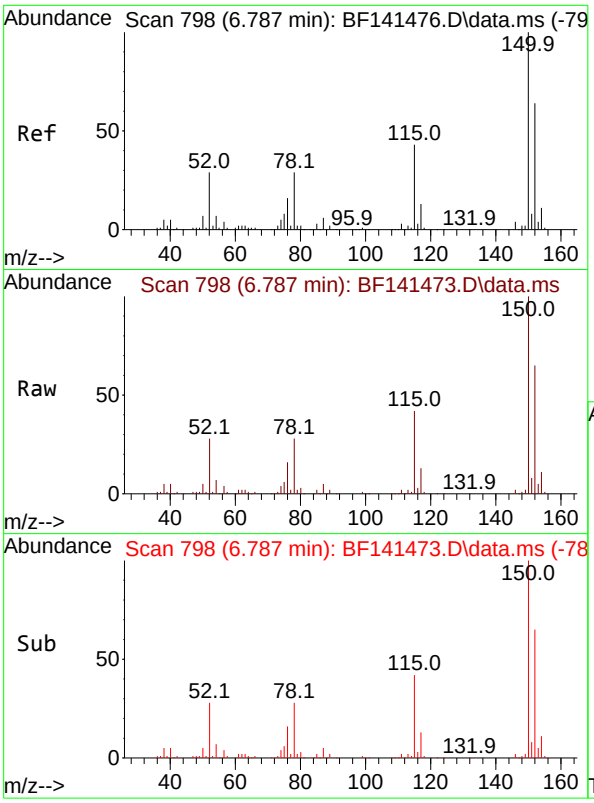
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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



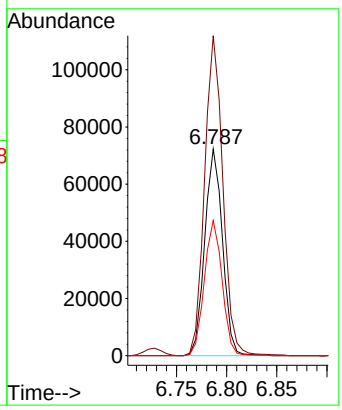


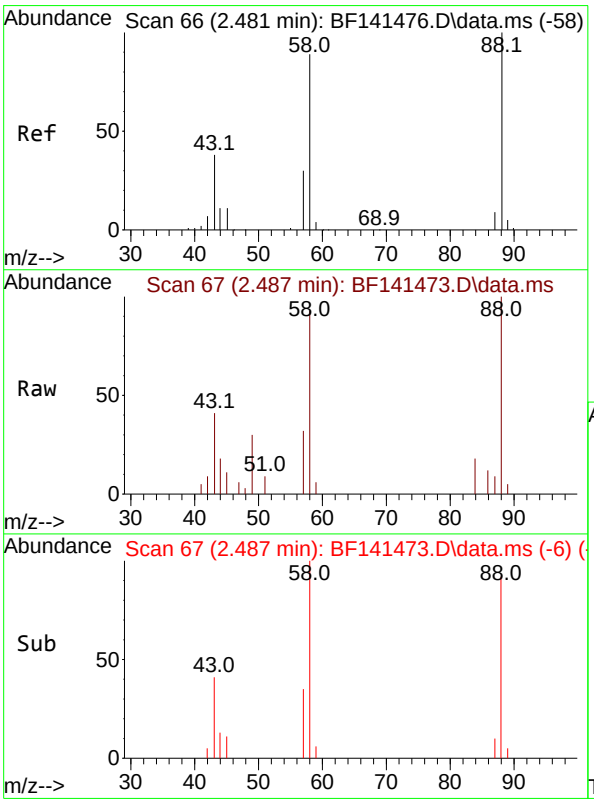
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 89396

Ion	Ratio	Lower	Upper
152	100		
150	154.8	125.0	187.4
115	65.4	53.6	80.4

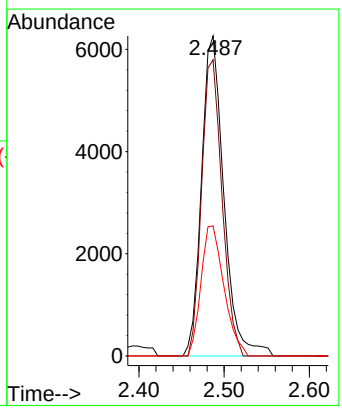


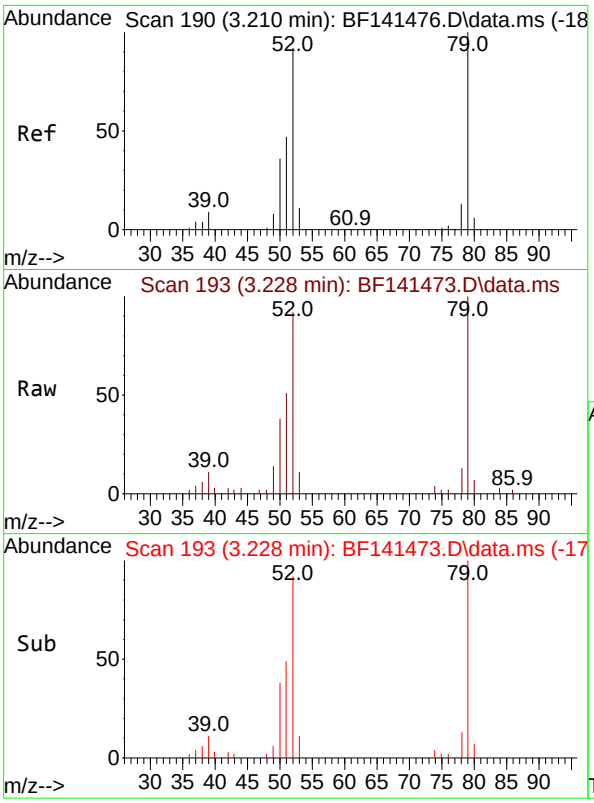


#2
1,4-Dioxane
Concen: 4.976 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 88 Resp: 11419

Ion	Ratio	Lower	Upper
88	100		
58	84.3	71.1	106.7
43	41.7	30.6	46.0



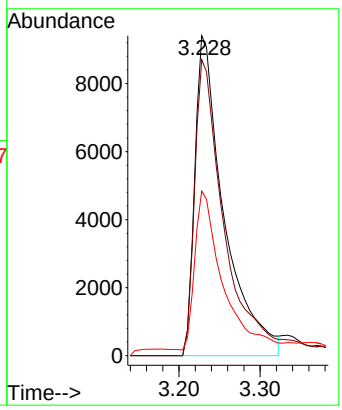


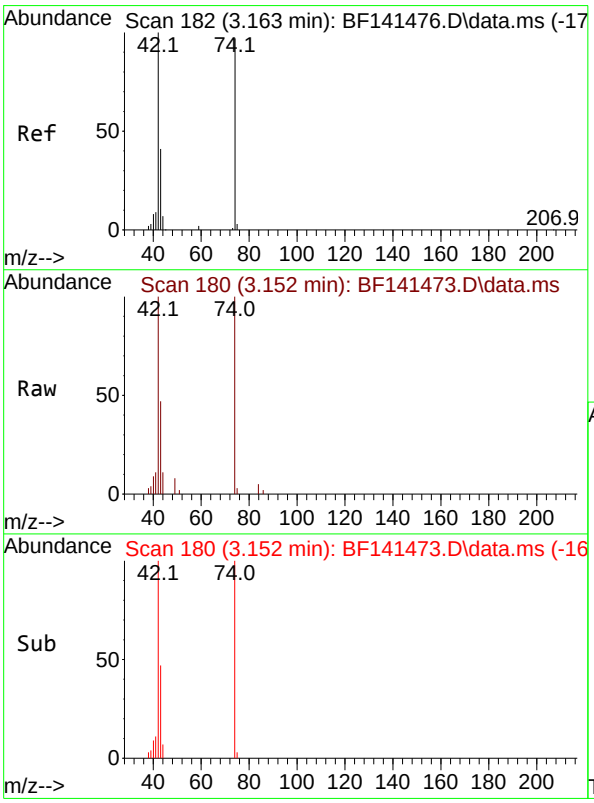
#3
Pyridine
Concen: 4.310 ng
RT: 3.228 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 23540

Ion	Ratio	Lower	Upper
79	100		
52	92.5	73.7	110.5
51	51.5	37.5	56.3

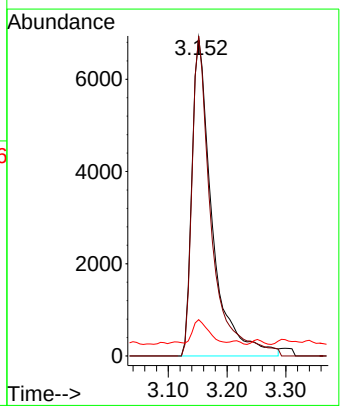


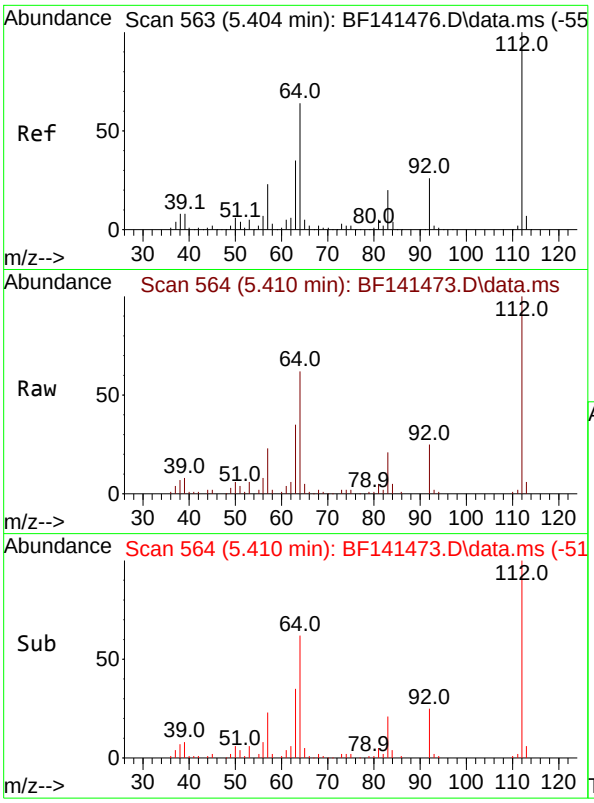


#4
n-Nitrosodimethylamine
Concen: 4.558 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 42 Resp: 16481

Ion	Ratio	Lower	Upper
42	100		
74	100.5	78.0	117.0
44	11.4	5.4	8.2#



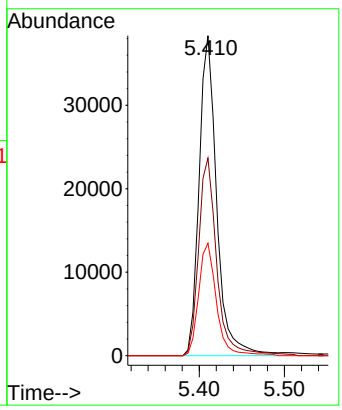


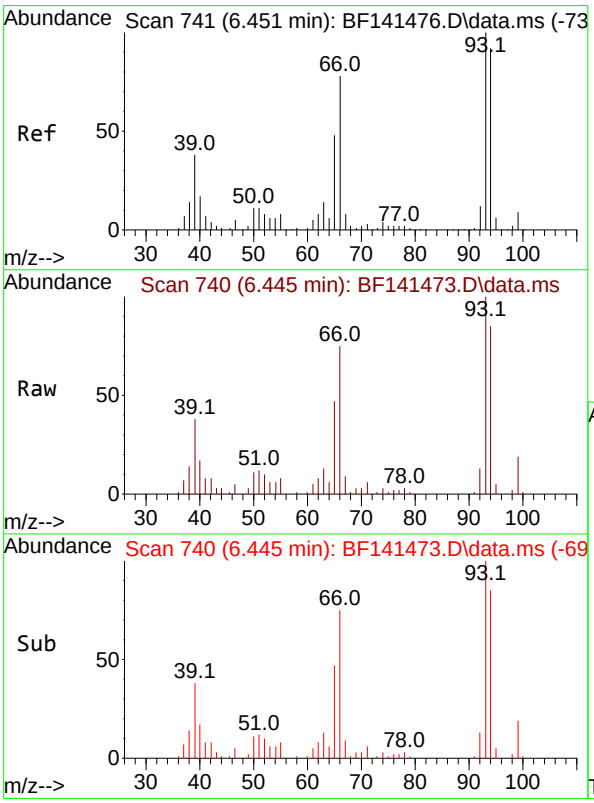
#5
2-Fluorophenol
Concen: 9.680 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 55200

Ion	Ratio	Lower	Upper
112	100		
64	61.8	51.1	76.7
63	35.1	28.4	42.6

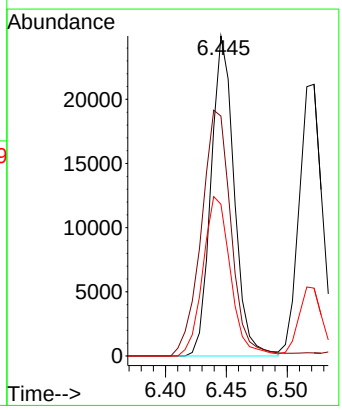


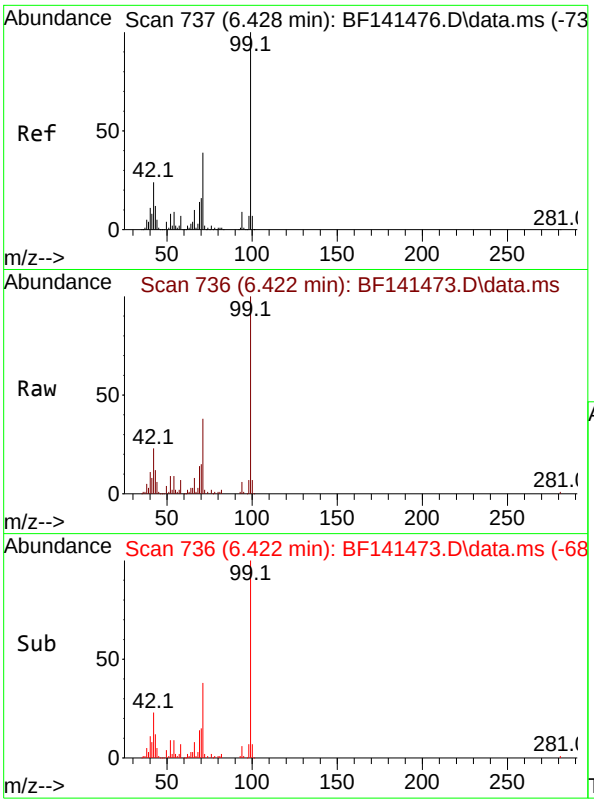


#6
Aniline
Concen: 4.880 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 93 Resp: 32993

Ion	Ratio	Lower	Upper
93	100		
66	75.0	62.6	94.0
65	47.4	38.3	57.5



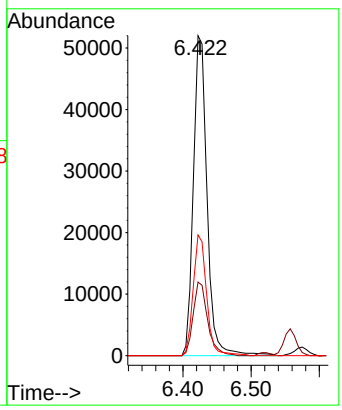


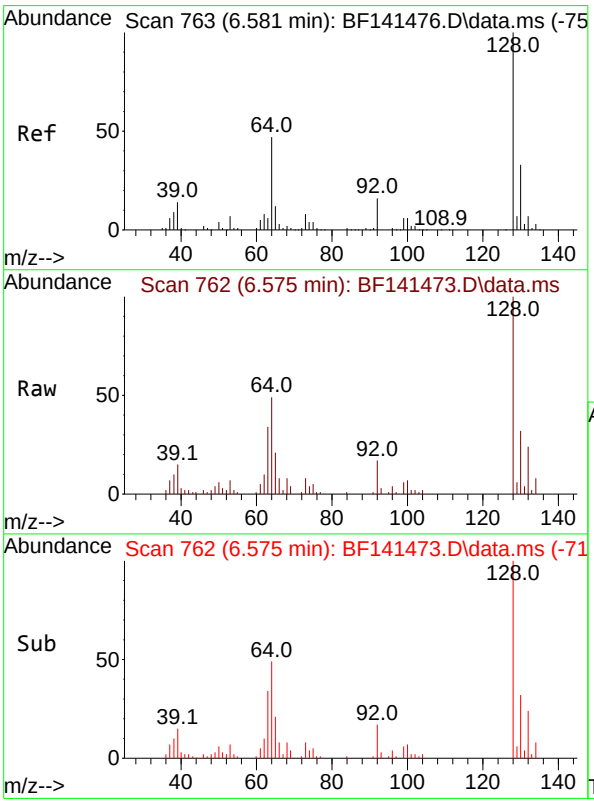
#7
Phenol-d6
Concen: 10.042 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 72376

Ion	Ratio	Lower	Upper
99	100		
42	23.0	19.1	28.7
71	37.7	31.1	46.7

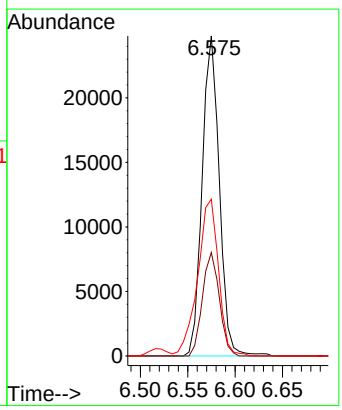


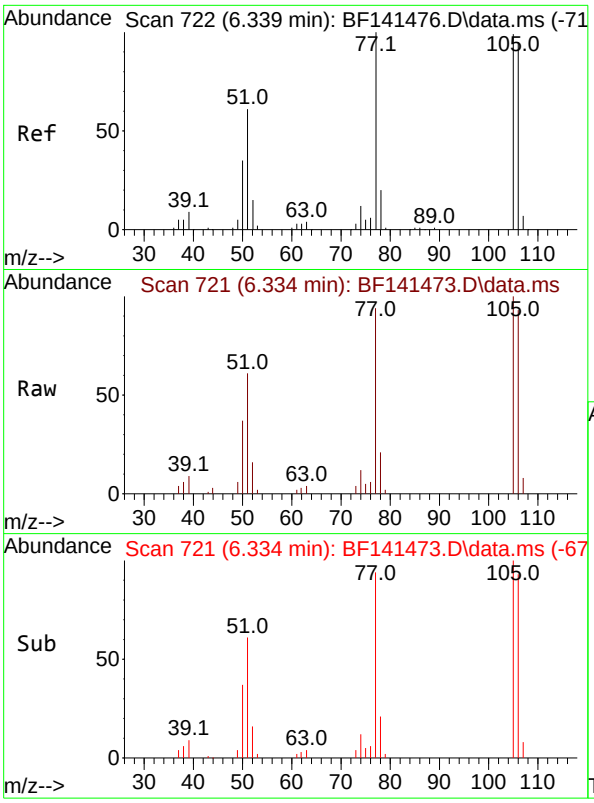


#8
2-Chlorophenol
Concen: 5.074 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:128 Resp: 31263

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.7	52.7
64	49.0	28.3	68.3



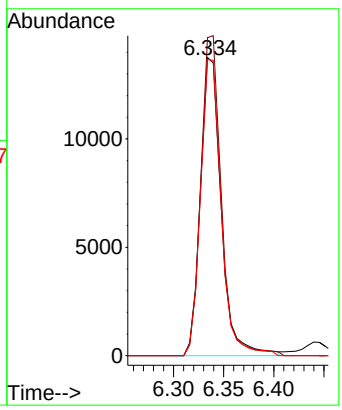


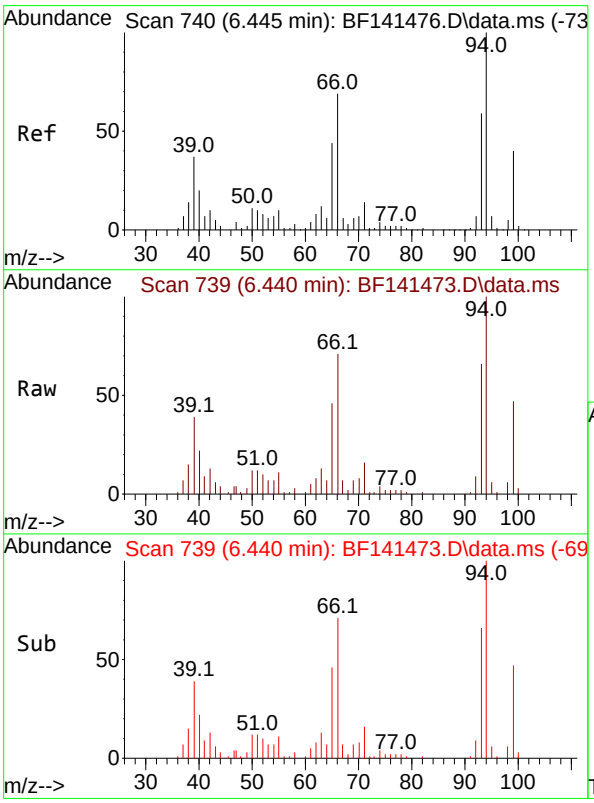
#9
Benzaldehyde
Concen: 5.207 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 19944

Ion	Ratio	Lower	Upper
77	100		
105	106.6	79.4	119.4
106	99.2	75.1	115.1

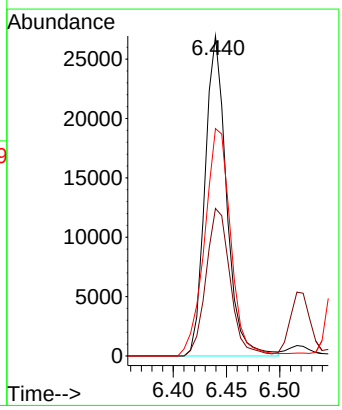


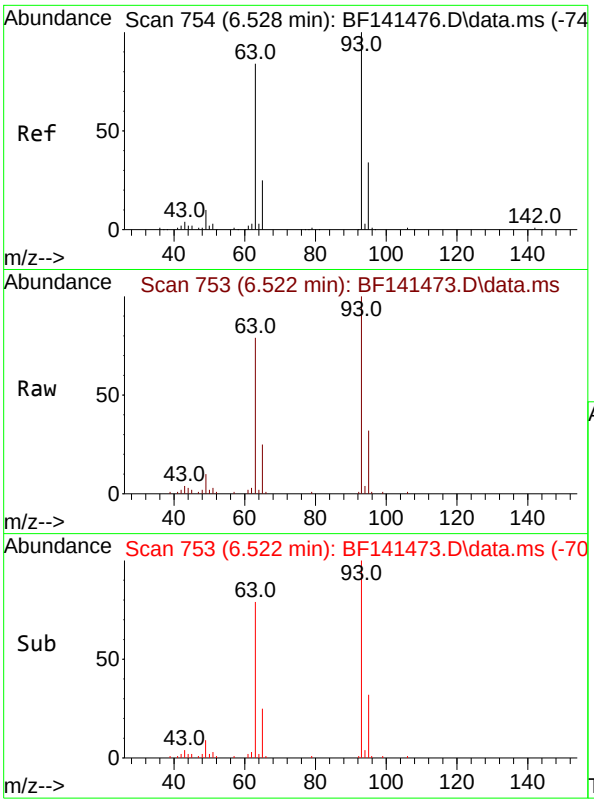


#10
Phenol
Concen: 5.044 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 94 Resp: 37833

Ion	Ratio	Lower	Upper
94	100		
65	46.1	23.7	63.7
66	71.1	49.3	89.3



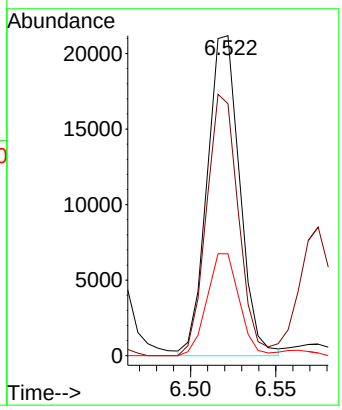


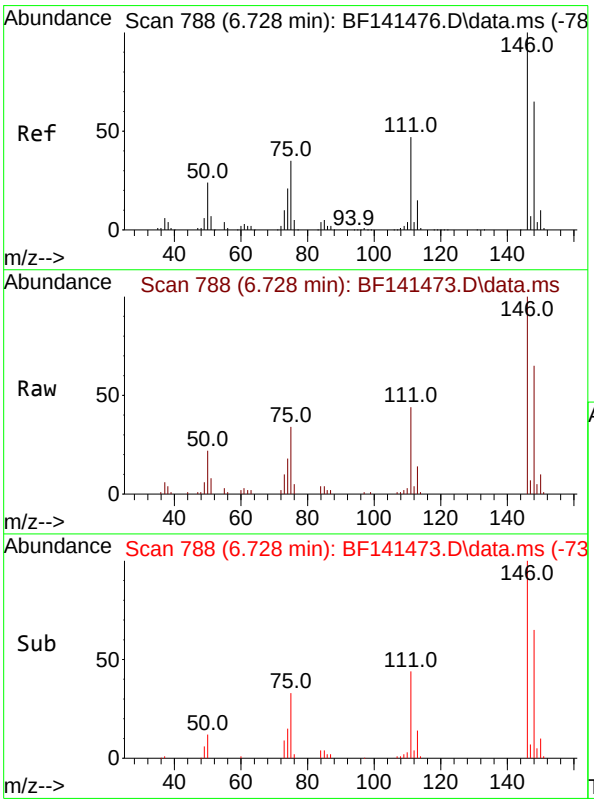
#11
bis(2-Chloroethyl)ether
Concen: 5.006 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 28203

Ion	Ratio	Lower	Upper
93	100		
63	78.7	62.0	102.0
95	31.9	12.6	52.6

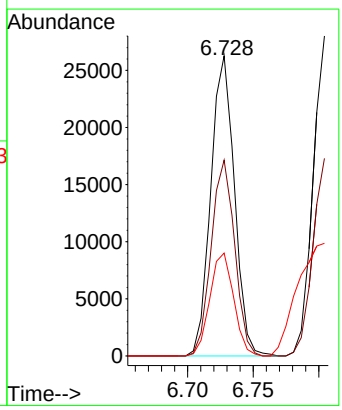


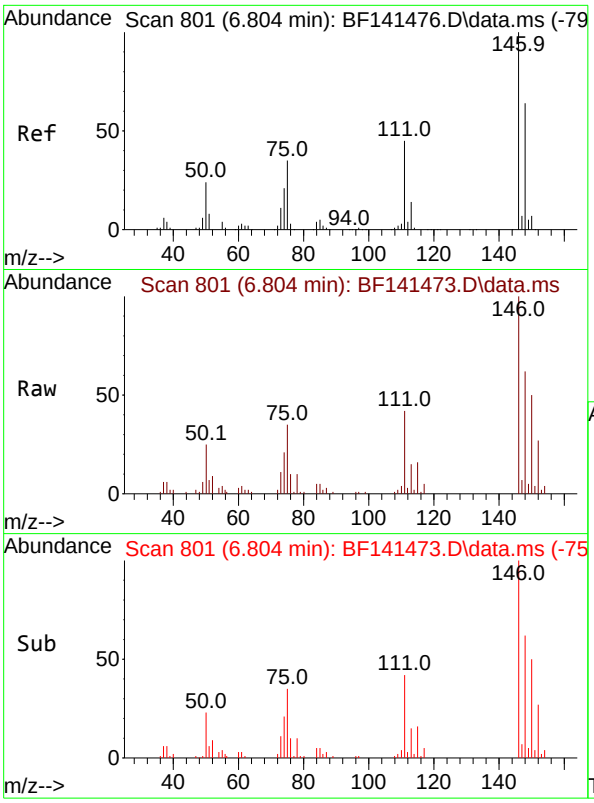


#12
1,3-Dichlorobenzene
Concen: 5.060 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:146 Resp: 32913

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.9	77.9
75	34.3	28.2	42.2



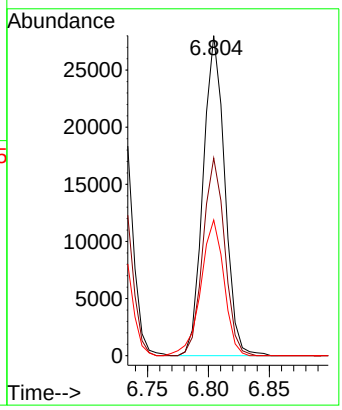


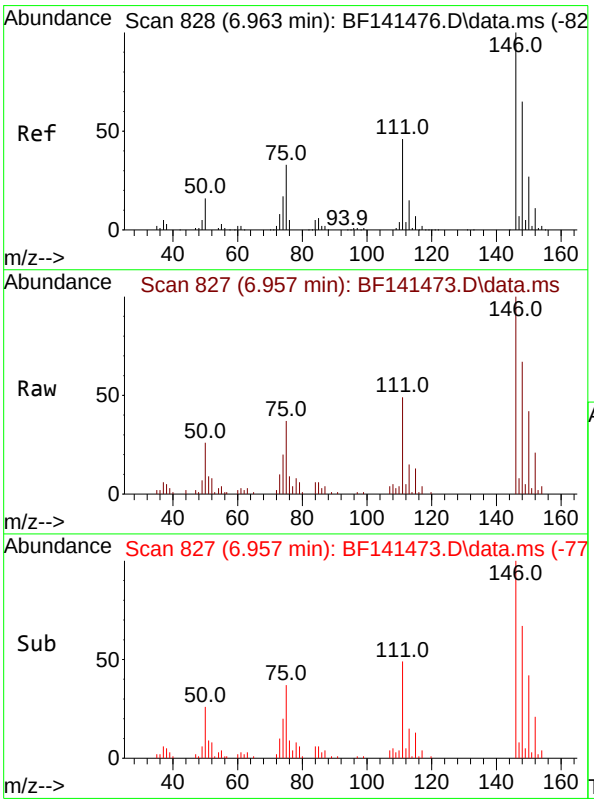
#13
1,4-Dichlorobenzene
Concen: 5.199 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 34555

Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.9	76.3
111	42.4	35.9	53.9

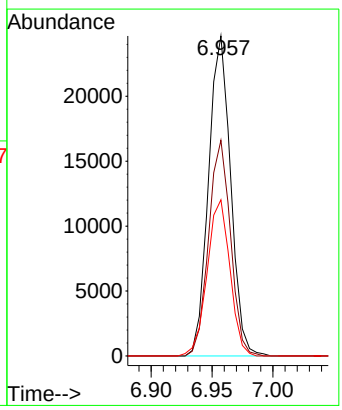


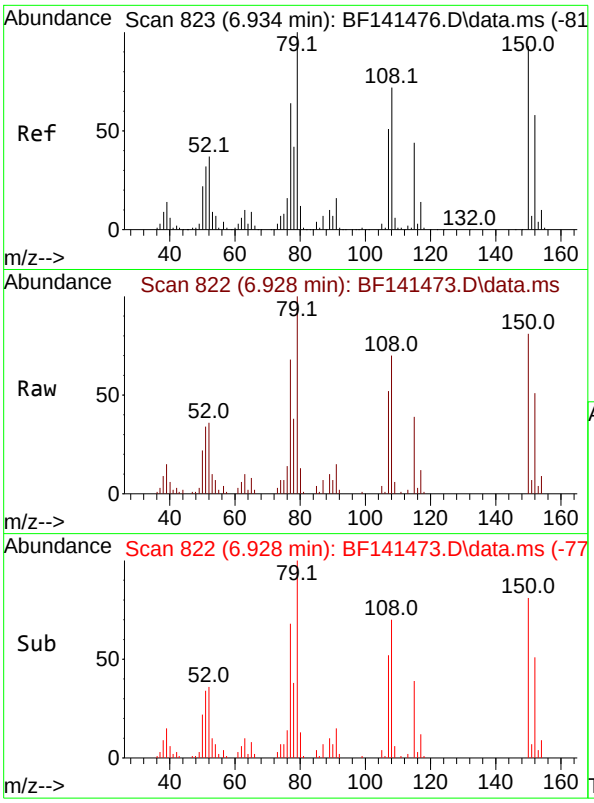


#14
1,2-Dichlorobenzene
Concen: 5.049 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:146 Resp: 31141

Ion	Ratio	Lower	Upper
146	100		
148	67.4	51.8	77.6
111	48.8	37.0	55.4



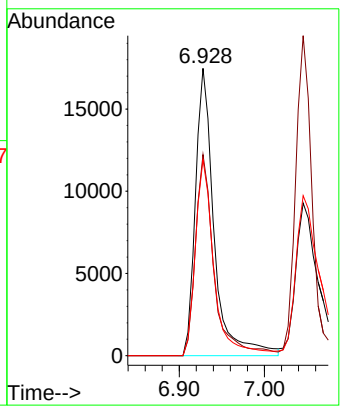


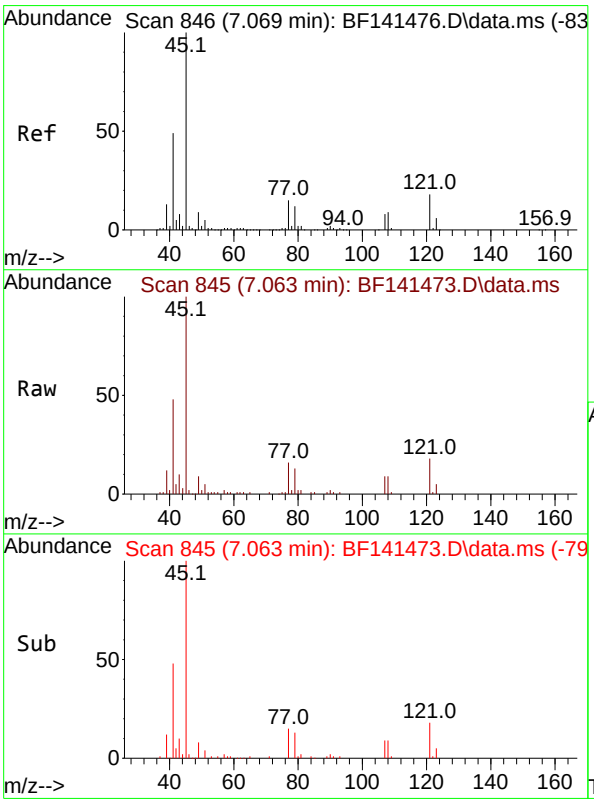
#15
Benzyl Alcohol
Concen: 4.815 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 26612

Ion	Ratio	Lower	Upper
79	100		
108	70.0	57.4	86.2
77	68.2	50.9	76.3

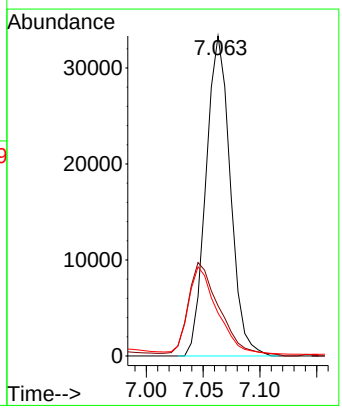


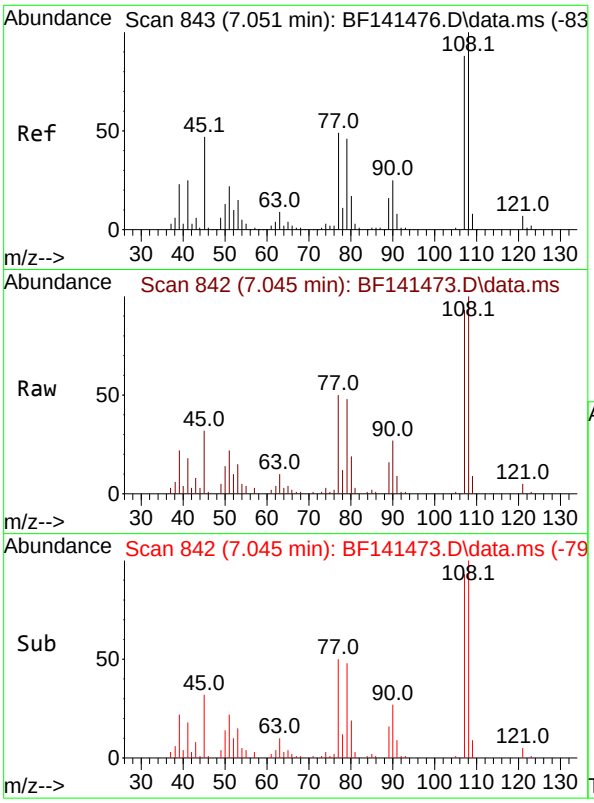


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.150 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 45 Resp: 49667

Ion	Ratio	Lower	Upper
45	100		
77	15.7	0.0	35.8
79	13.4	0.0	32.7



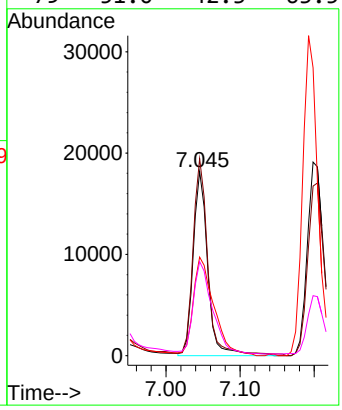


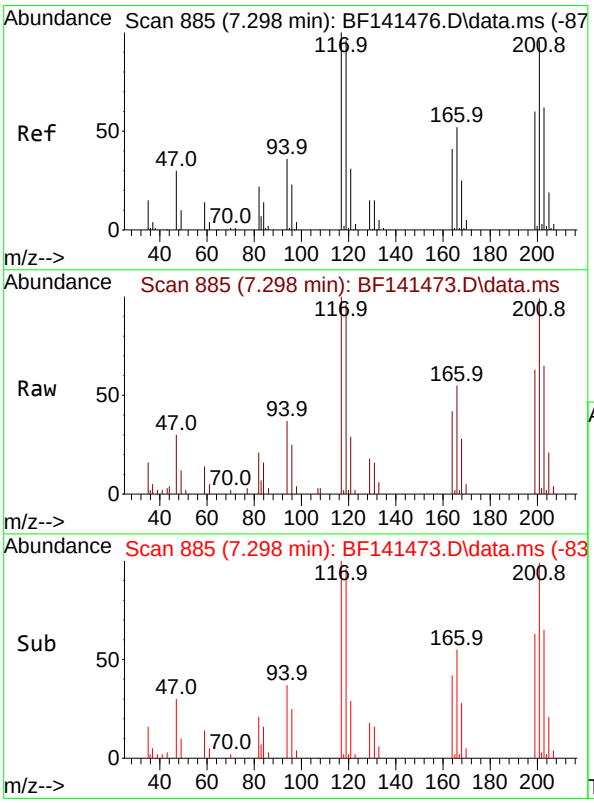
#17
2-Methylphenol
Concen: 5.173 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 24939

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

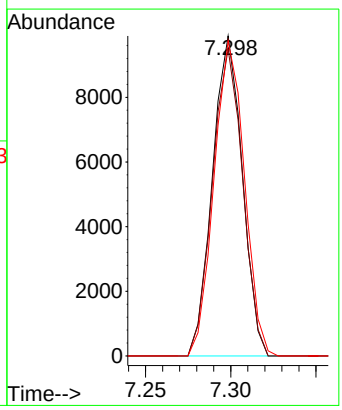


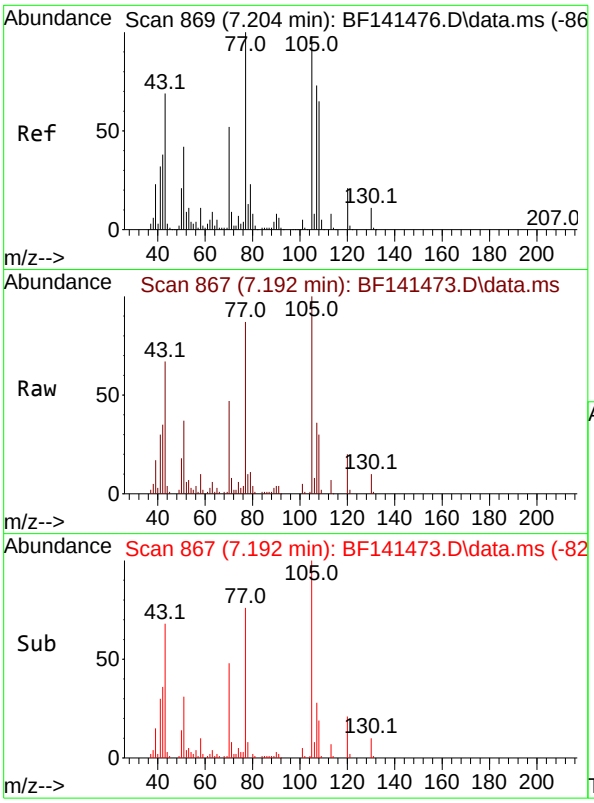


#18
Hexachloroethane
Concen: 4.896 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:117 Resp: 12043

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.5	114.7
201	98.5	76.7	115.1



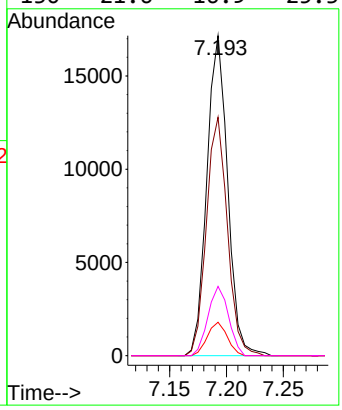


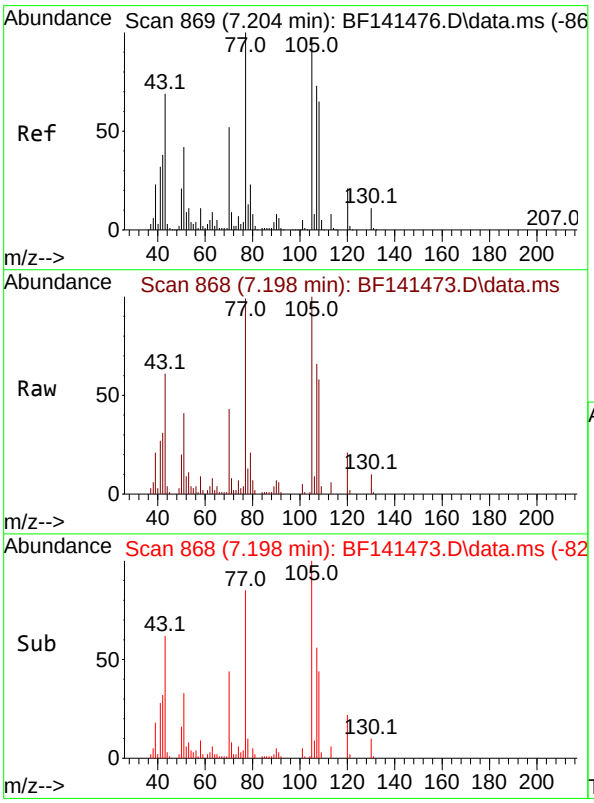
#19
n-Nitroso-di-n-propylamine
Concen: 5.072 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 21865

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

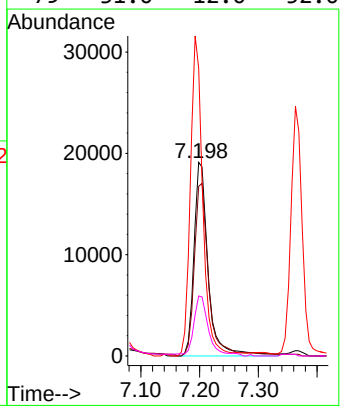


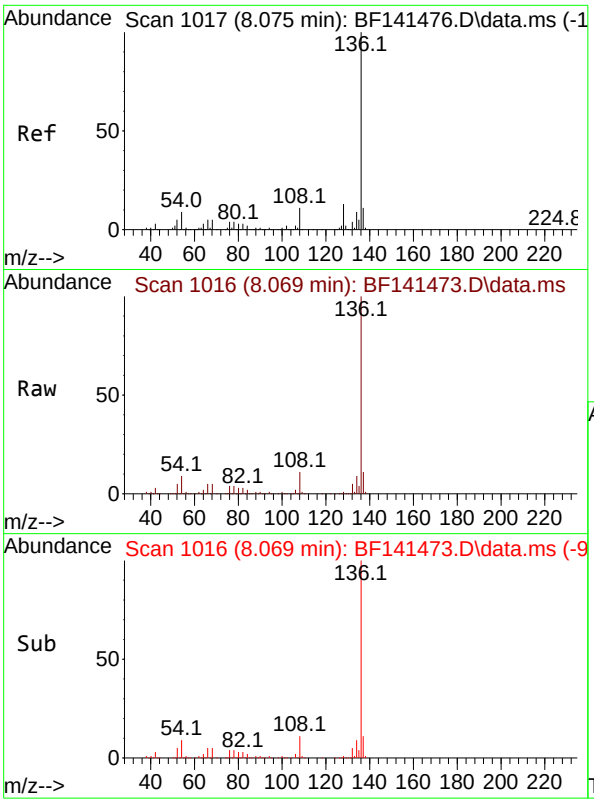


#20
3+4-Methylphenols
Concen: 5.258 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:107 Resp: 32221

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



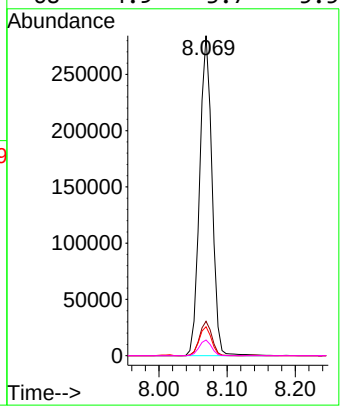


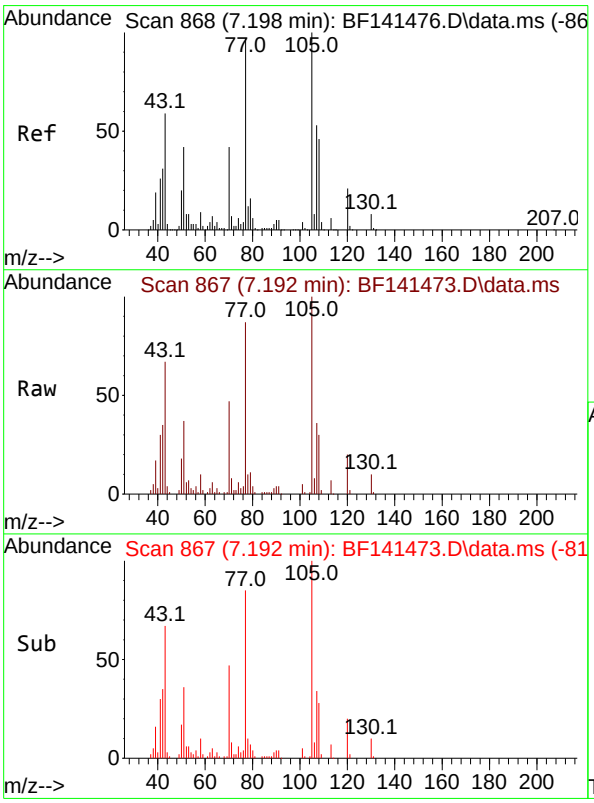
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 358966

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.0	7.2	10.8
68	4.9	3.7	5.5

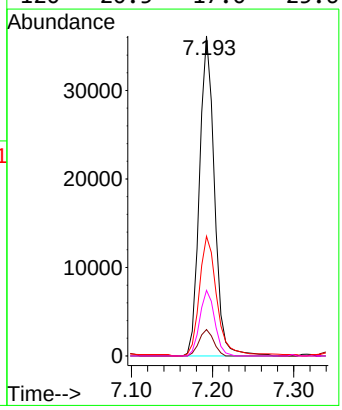


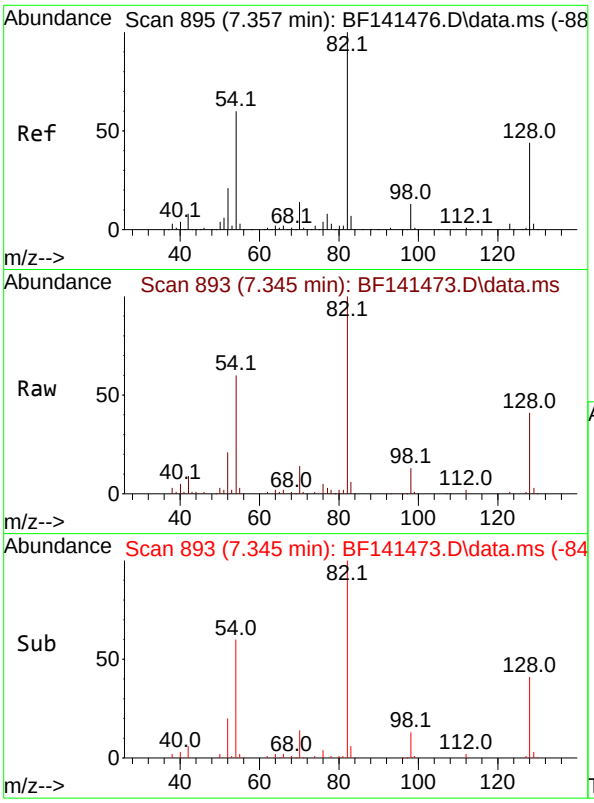


#22
Acetophenone
Concen: 5.201 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:105 Resp: 46441

Ion	Ratio	Lower	Upper
105	100		
71	8.3	5.7	8.5
51	37.4	33.7	50.5
120	20.5	17.0	25.6



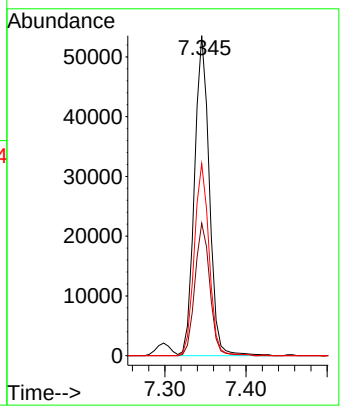


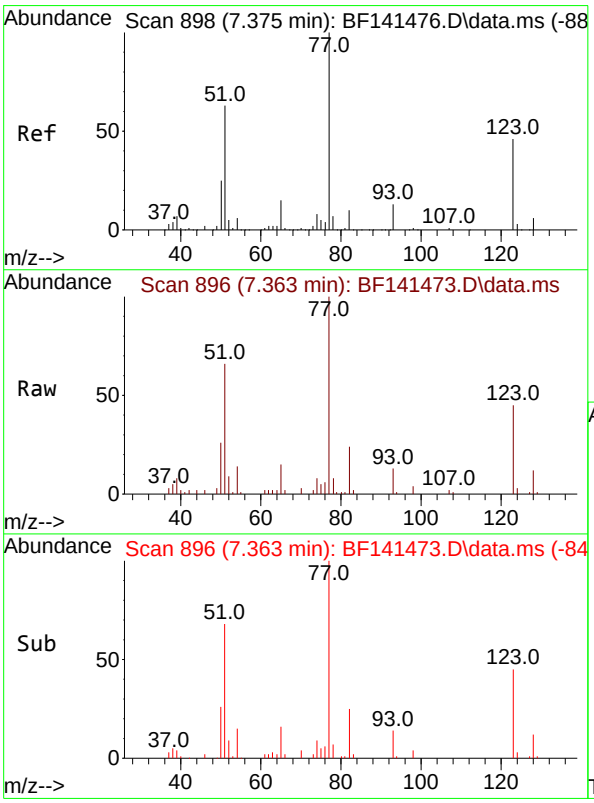
#23
Nitrobenzene-d5
Concen: 9.918 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 68257

Ion	Ratio	Lower	Upper
82	100		
128	41.4	34.8	52.2
54	60.0	48.2	72.4

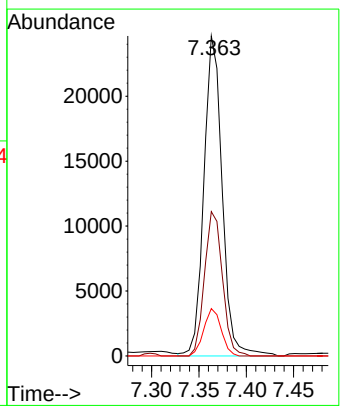


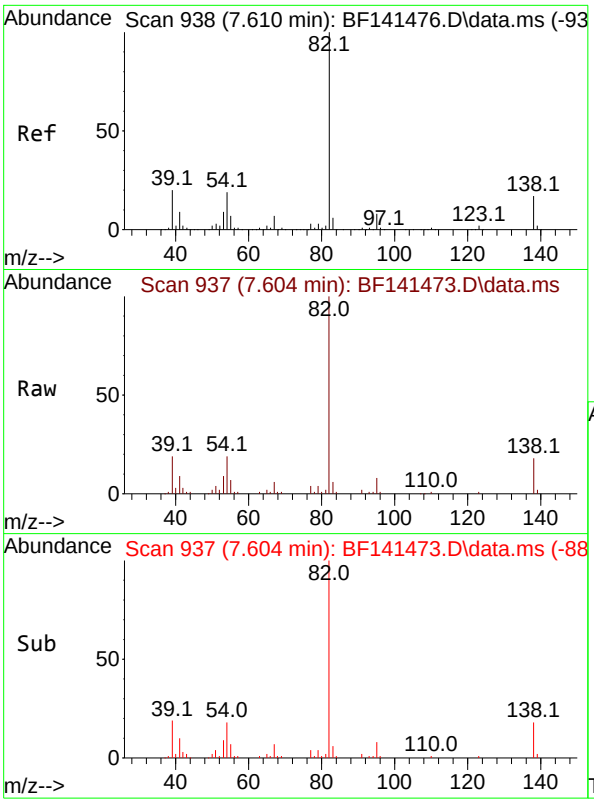


#24
Nitrobenzene
Concen: 4.943 ng
RT: 7.363 min Scan# 896
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 77 Resp: 33173

Ion	Ratio	Lower	Upper
77	100		
123	45.1	36.9	55.3
65	14.8	11.9	17.9



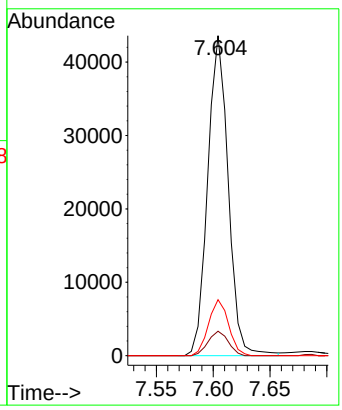


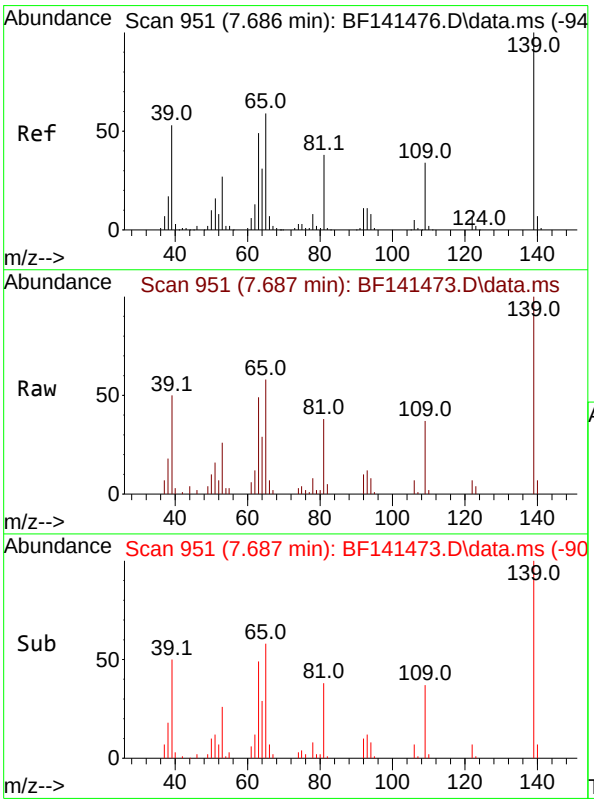
#25
Isophorone
Concen: 4.993 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 54796

Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.4	9.6
138	17.5	13.9	20.9

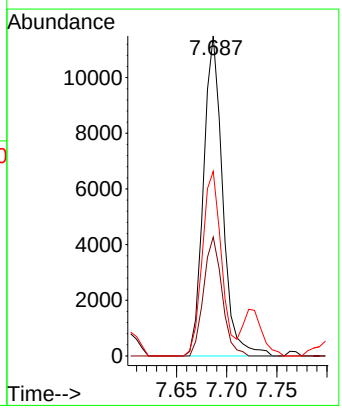


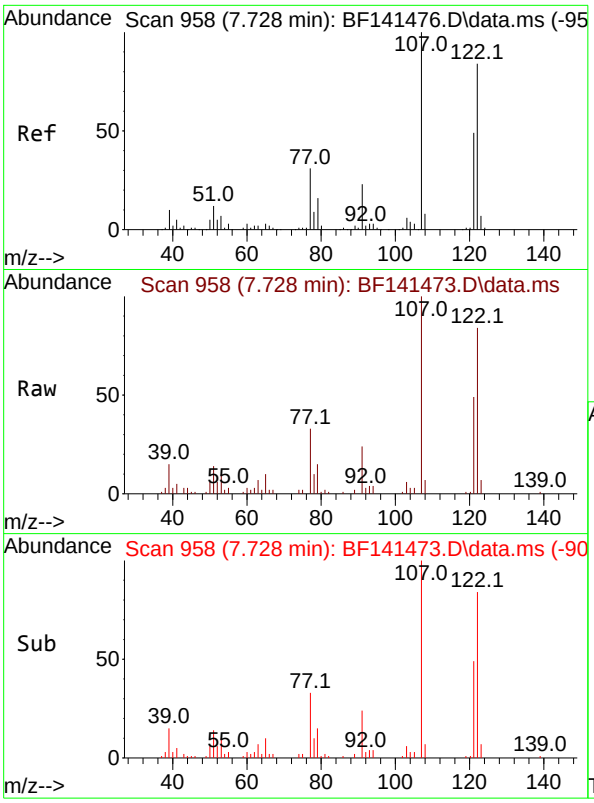


#26
2-Nitrophenol
Concen: 4.592 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:139 Resp: 15331

Ion	Ratio	Lower	Upper
139	100		
109	37.1	27.0	40.6
65	57.7	47.1	70.7



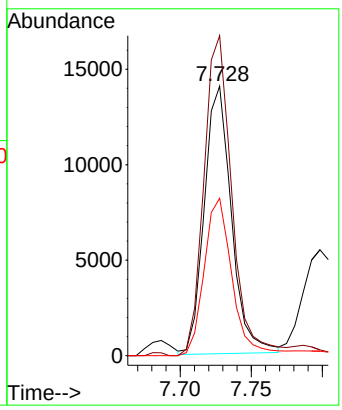


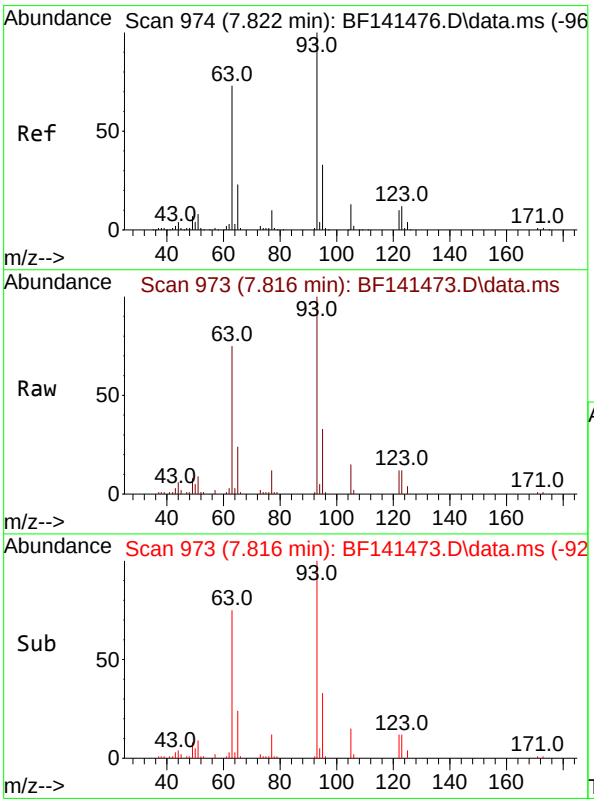
#27
2,4-Dimethylphenol
Concen: 4.784 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 18659

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	58.4	46.0	69.0

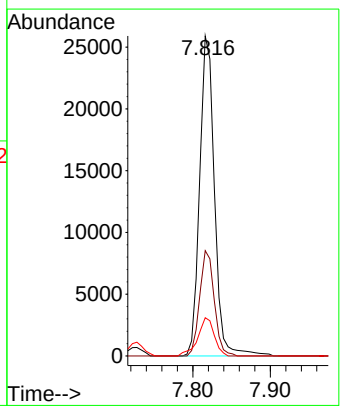


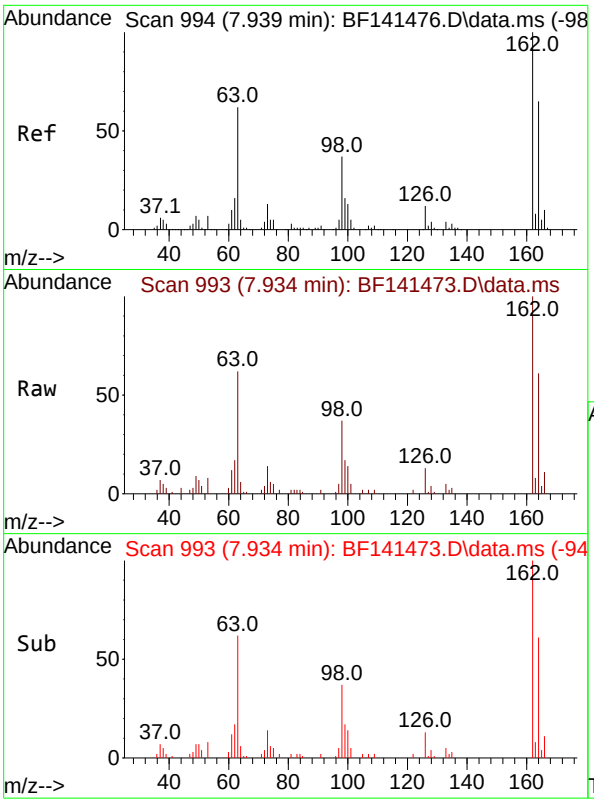


#28
bis(2-Chloroethoxy)methane
Concen: 4.902 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 93 Resp: 34469

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.1	39.1
123	12.0	9.5	14.3



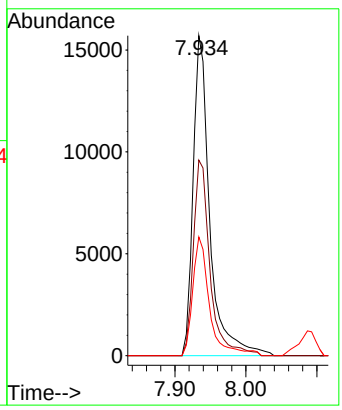


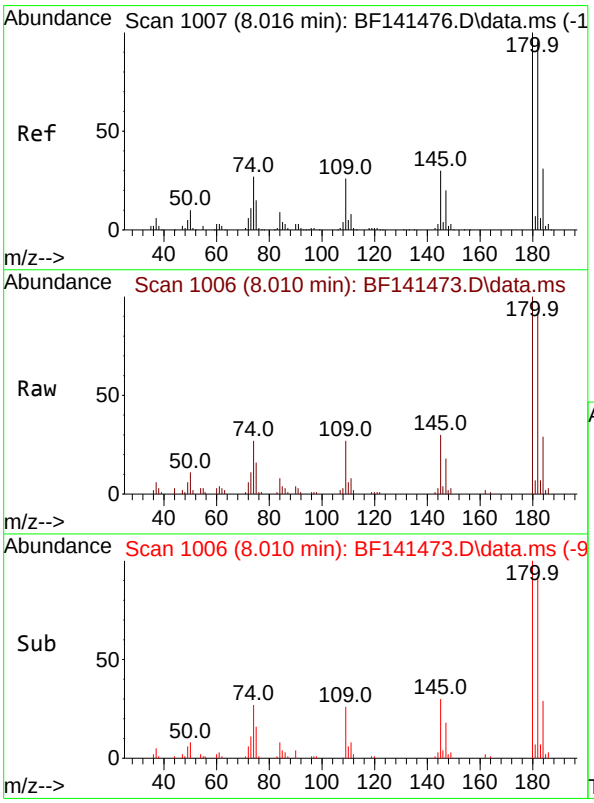
#29
2,4-Dichlorophenol
Concen: 4.870 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 25667

Ion	Ratio	Lower	Upper
162	100		
164	61.1	44.6	84.6
98	37.1	17.2	57.2

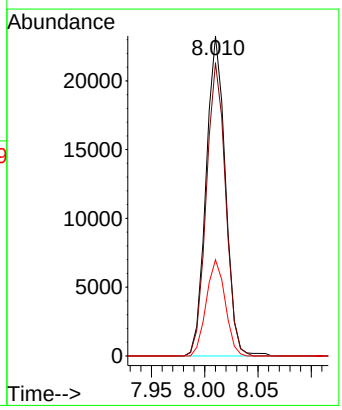


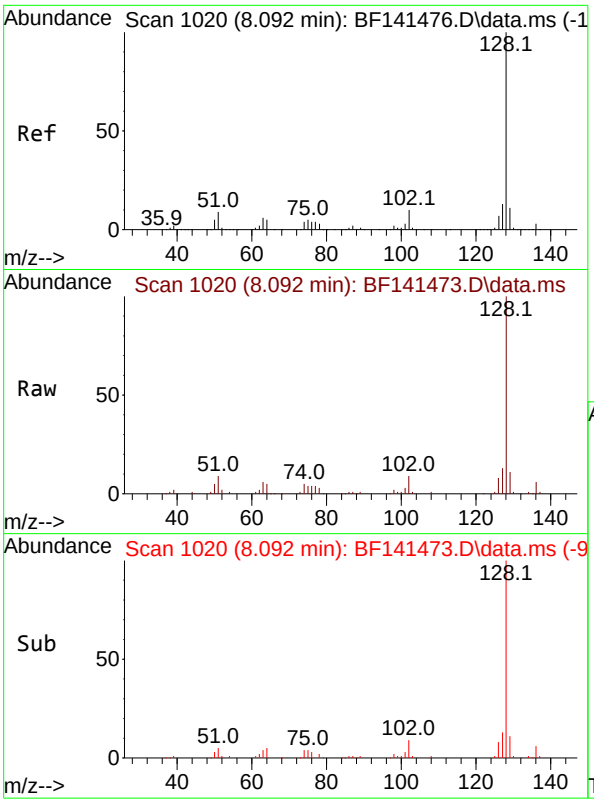


#30
1,2,4-Trichlorobenzene
Concen: 5.109 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:180 Resp: 29321

Ion	Ratio	Lower	Upper
180	100		
182	91.6	76.8	115.2
145	30.0	24.2	36.4



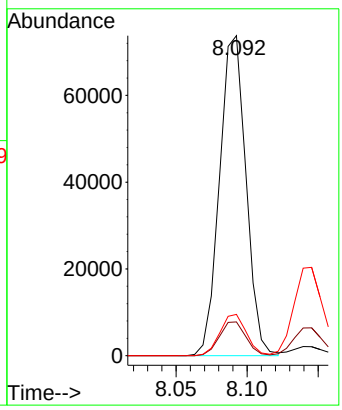


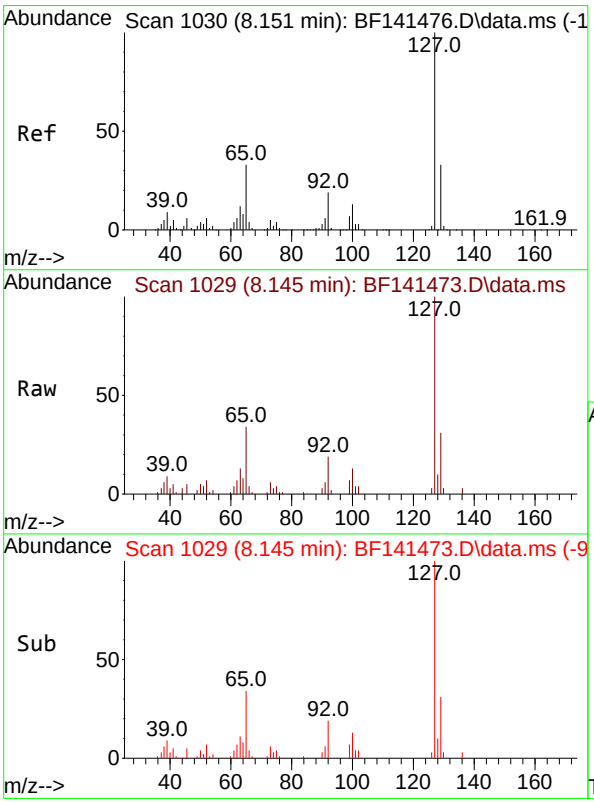
#31
Naphthalene
Concen: 5.123 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 95730

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.9	13.3
127	12.9	10.7	16.1

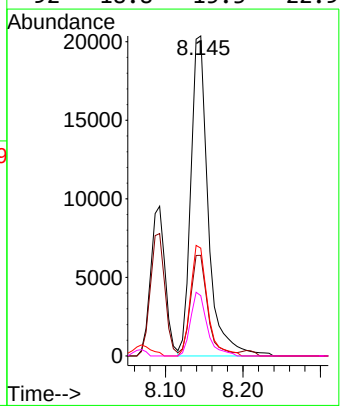


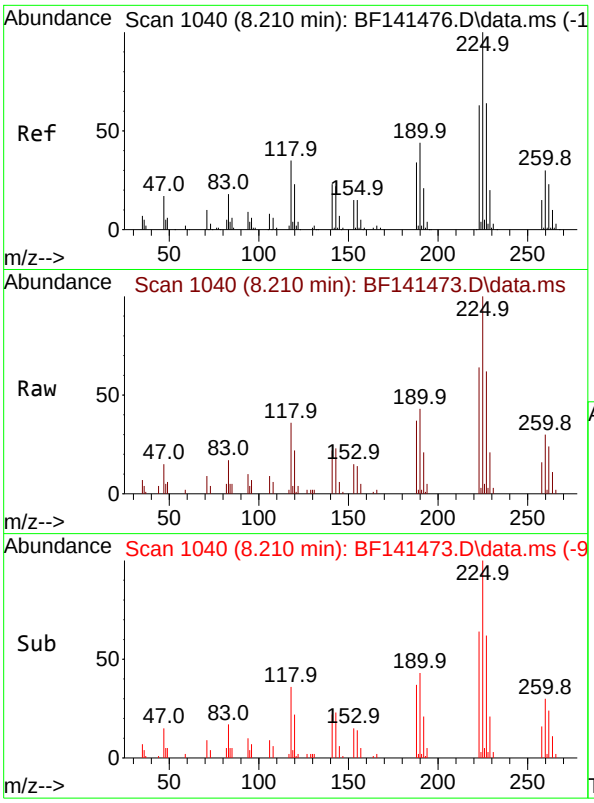


#33
4-Chloroaniline
Concen: 4.864 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:127 Resp: 31729

Ion	Ratio	Lower	Upper
127	100		
129	31.4	26.5	39.7
65	33.7	26.4	39.6
92	18.8	15.3	22.9



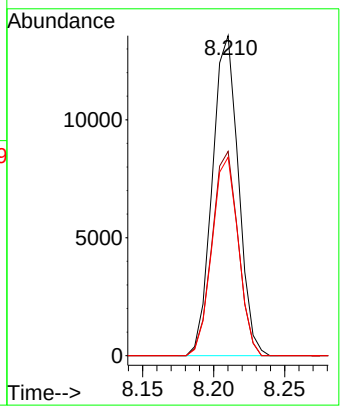


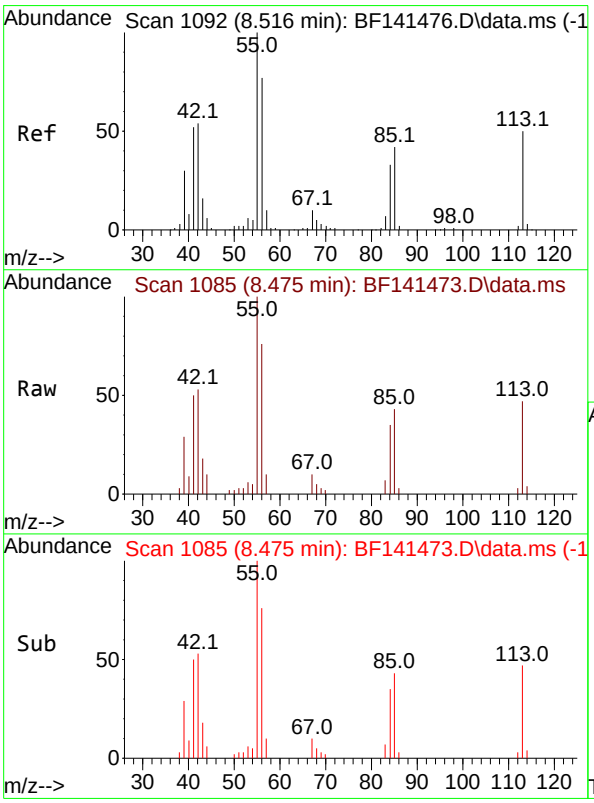
#34
Hexachlorobutadiene
Concen: 5.028 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 17323

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.1	75.1
227	62.0	51.0	76.6

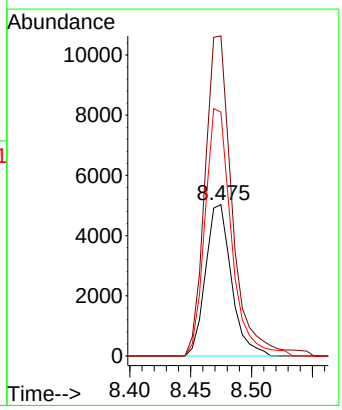


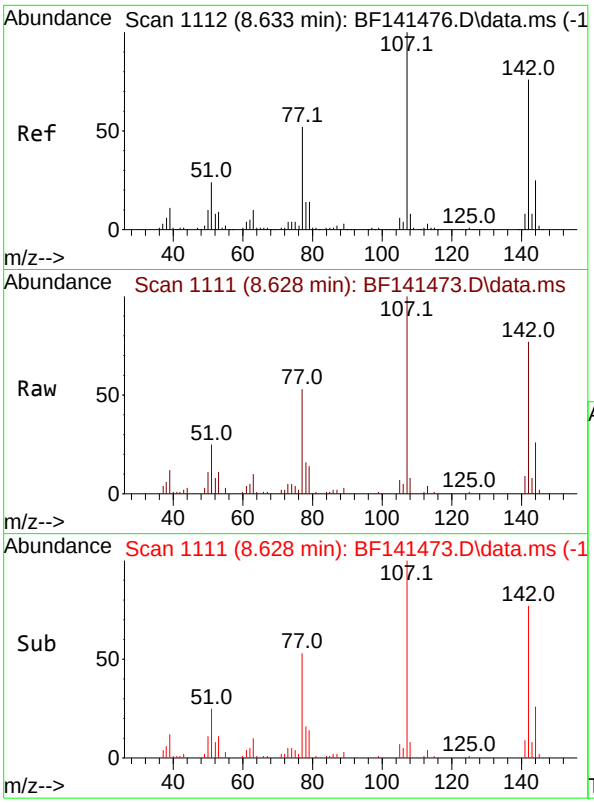


#35
Caprolactam
Concen: 4.635 ng
RT: 8.475 min Scan# 1085
Delta R.T. -0.070 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:113 Resp: 7437

Ion	Ratio	Lower	Upper
113	100		
55	211.4	180.8	220.8
56	161.1	133.6	173.6



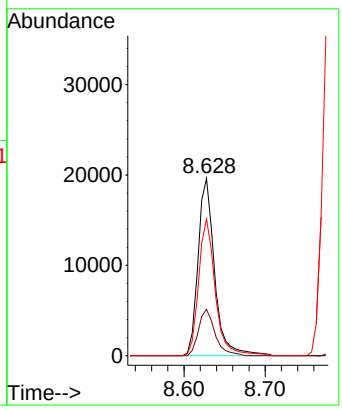


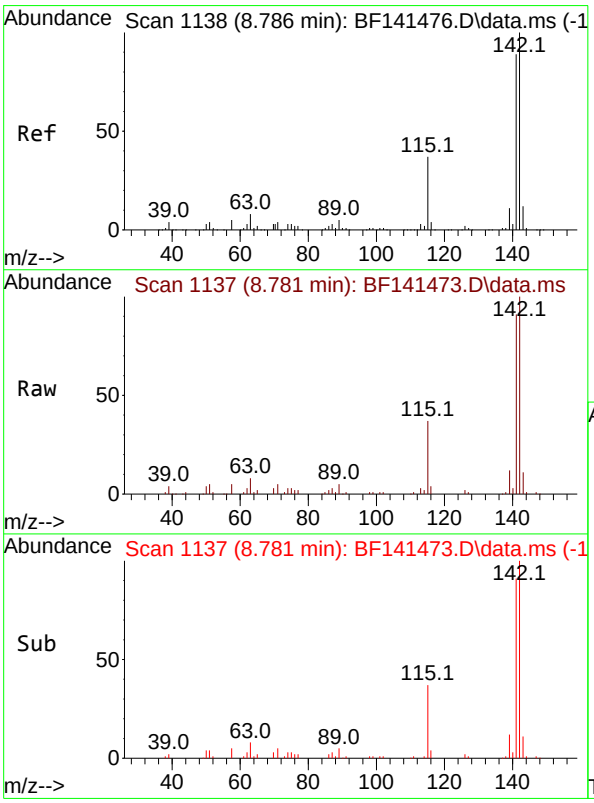
#36
4-Chloro-3-methylphenol
Concen: 4.765 ng
RT: 8.628 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 27818

Ion	Ratio	Lower	Upper
107	100		
144	26.2	19.7	29.5
142	77.1	60.8	91.2

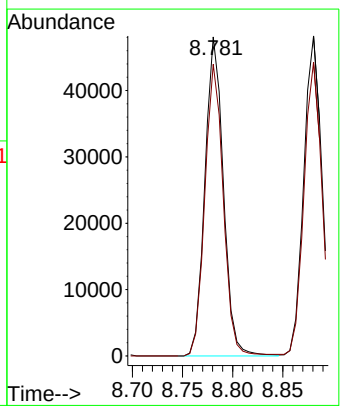


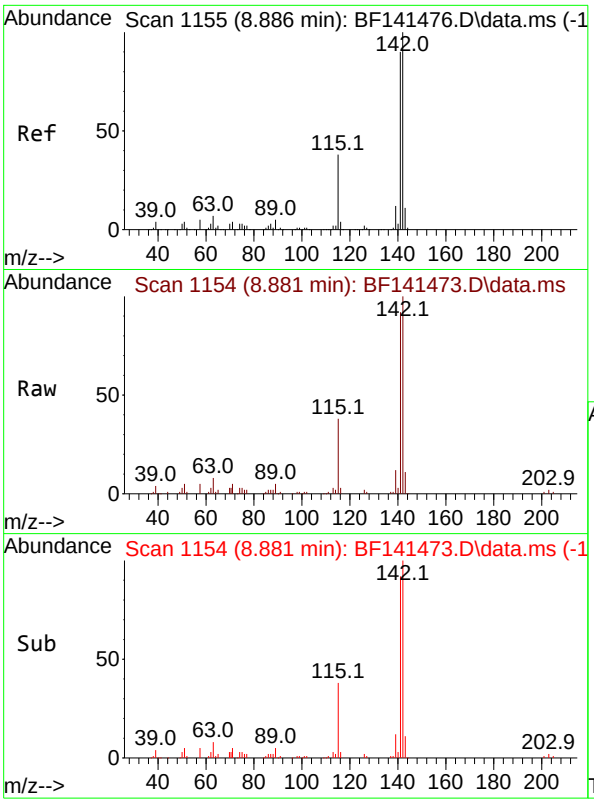


#37
2-Methylnaphthalene
Concen: 5.078 ng
RT: 8.781 min Scan# 1137
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:142 Resp: 61742

Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.2	106.8



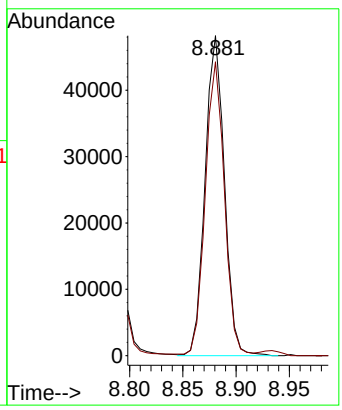


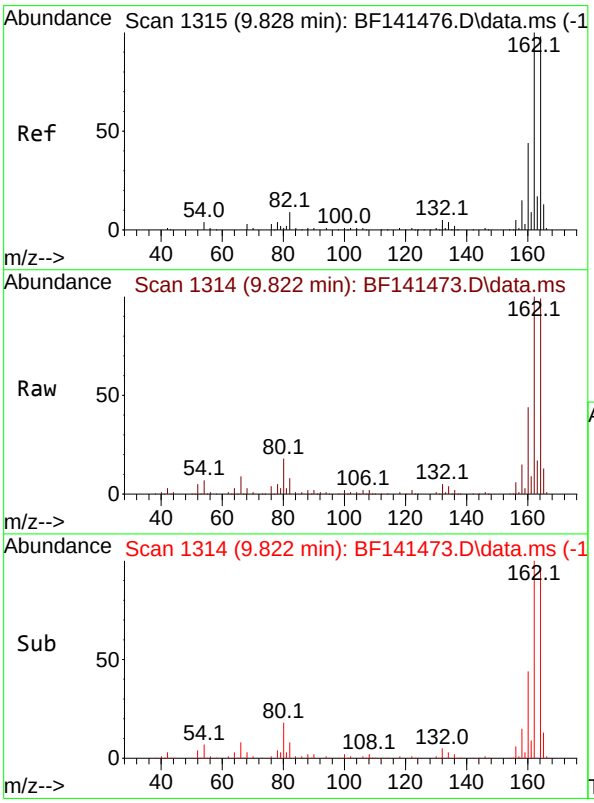
#38
1-Methylnaphthalene
Concen: 5.182 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 61026

Ion	Ratio	Lower	Upper
142	100		
141	91.9	72.1	108.1

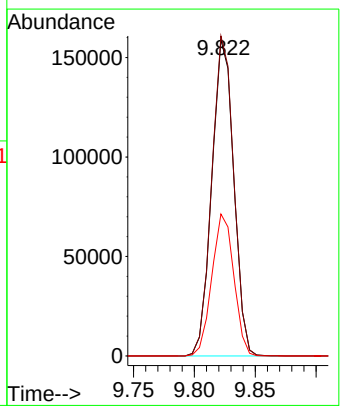


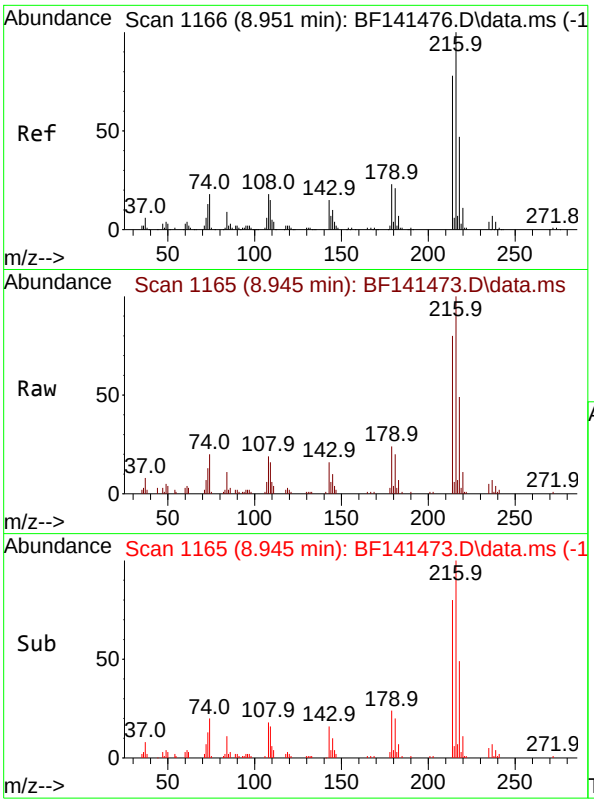


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1314
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:164 Resp: 199514

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.3	121.9
160	44.9	35.9	53.9



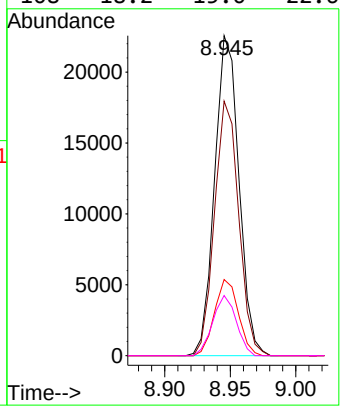


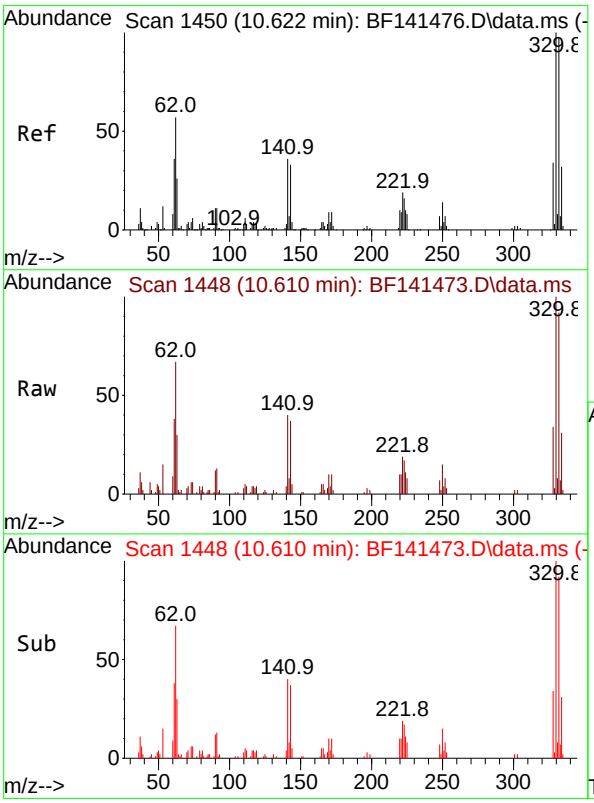
#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.028 ng
RT: 8.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:216 Resp: 29023

Ion	Ratio	Lower	Upper
216	100		
214	79.2	62.3	93.5
179	23.4	18.0	27.0
108	18.2	15.0	22.6

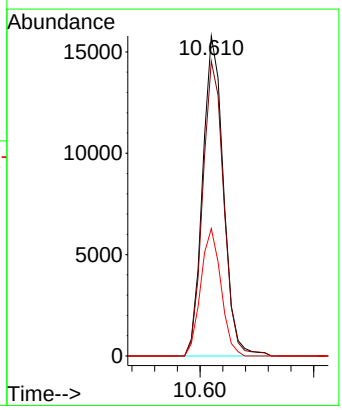


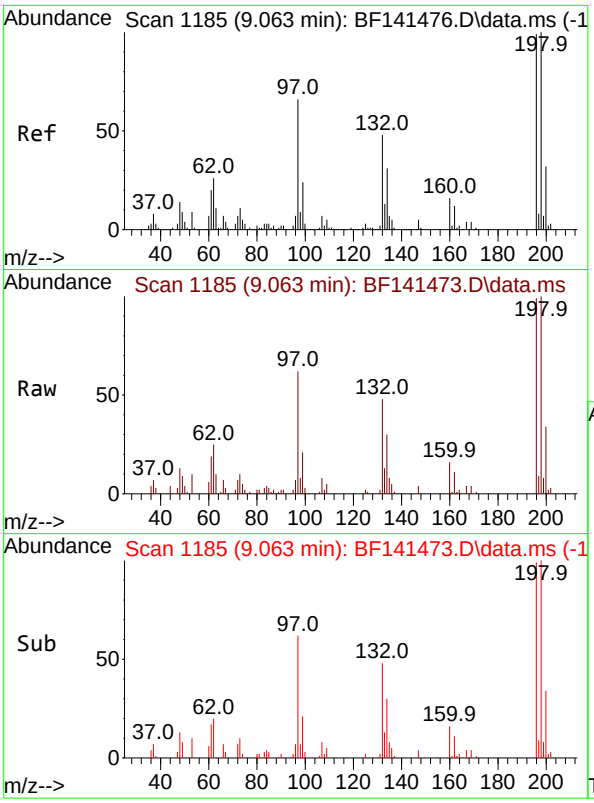


#42
2,4,6-Tribromophenol
Concen: 10.009 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:330 Resp: 20060

Ion	Ratio	Lower	Upper
330	100		
332	92.9	78.5	117.7
141	38.7	31.0	46.4



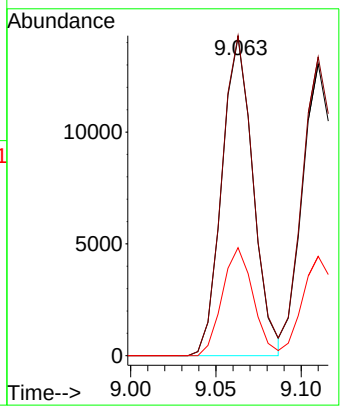


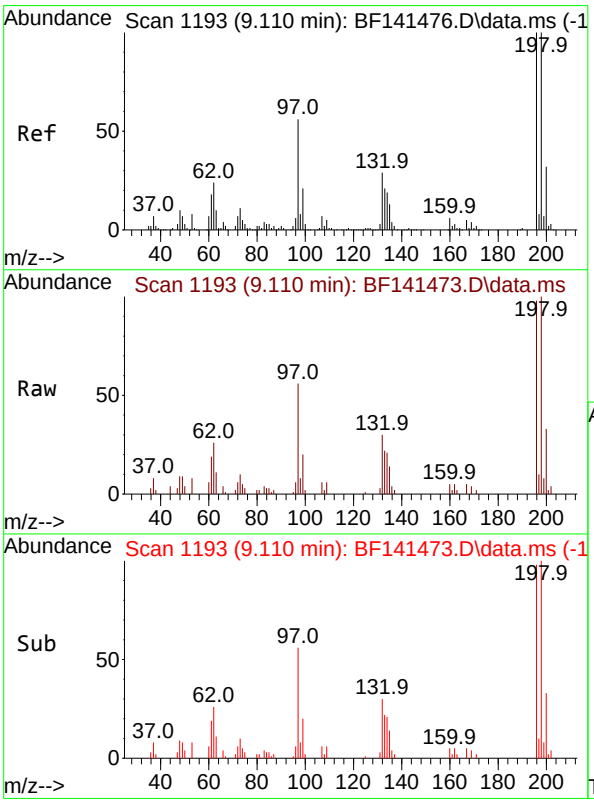
#43
2,4,6-Trichlorophenol
Concen: 4.863 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 18144

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.6	121.0
200	34.0	25.5	38.3

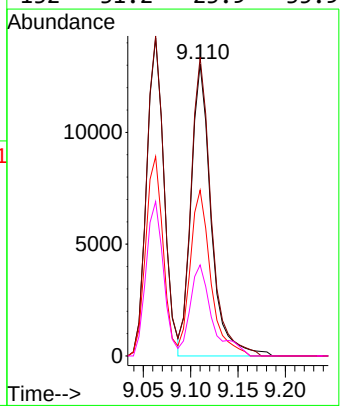


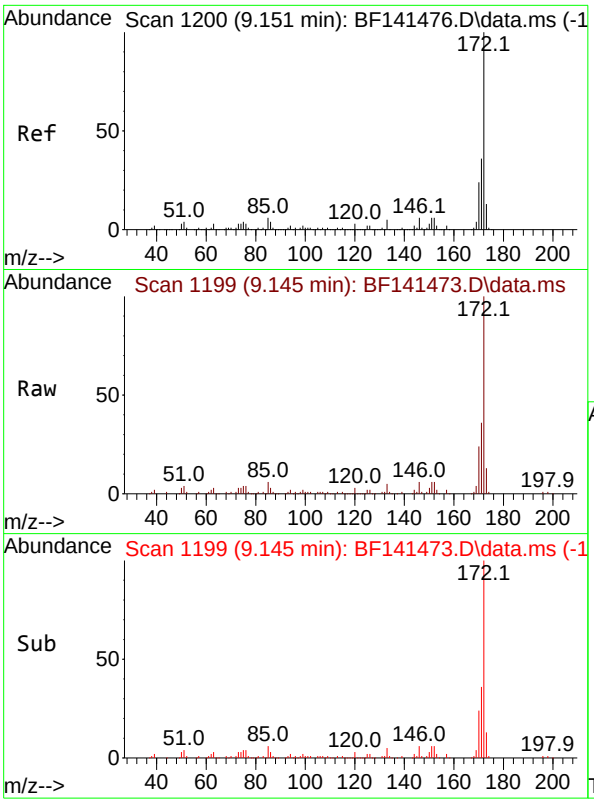


#44
2,4,5-Trichlorophenol
Concen: 4.750 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:196 Resp: 19204

Ion	Ratio	Lower	Upper
196	100		
198	102.3	79.8	119.8
97	56.8	44.8	67.2
132	31.2	23.9	35.9



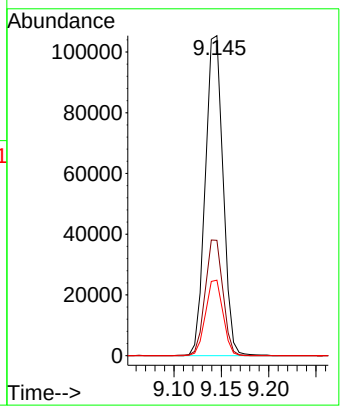


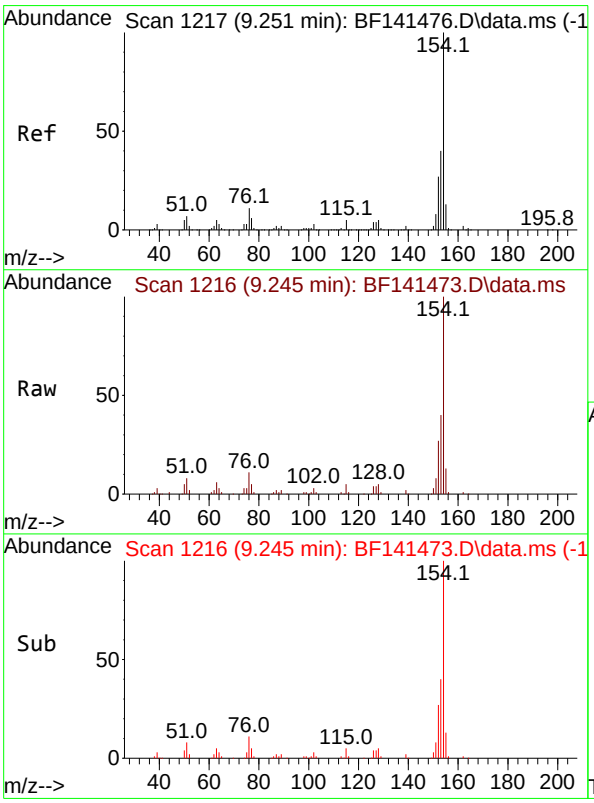
#45
2-Fluorobiphenyl
Concen: 10.573 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 136925

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.6	18.9	28.3

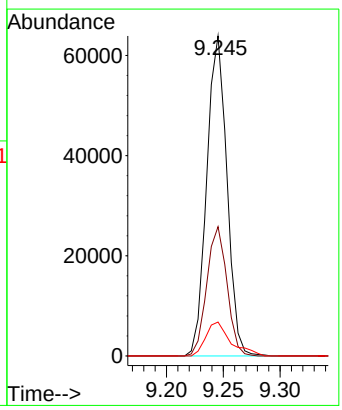


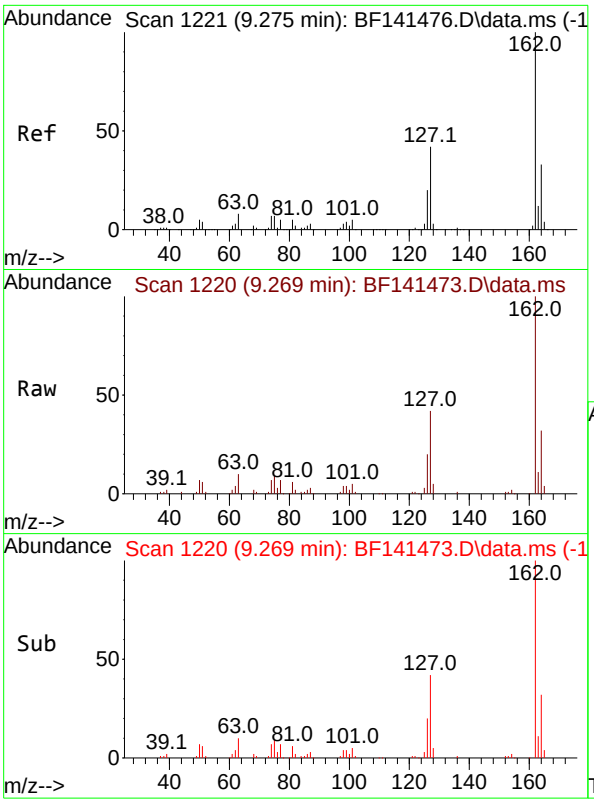


#46
1,1'-Biphenyl
Concen: 5.103 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:154 Resp: 78931

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	10.6	0.0	30.8



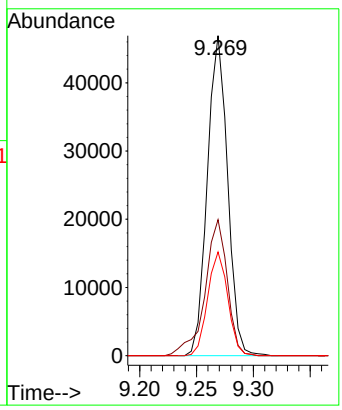


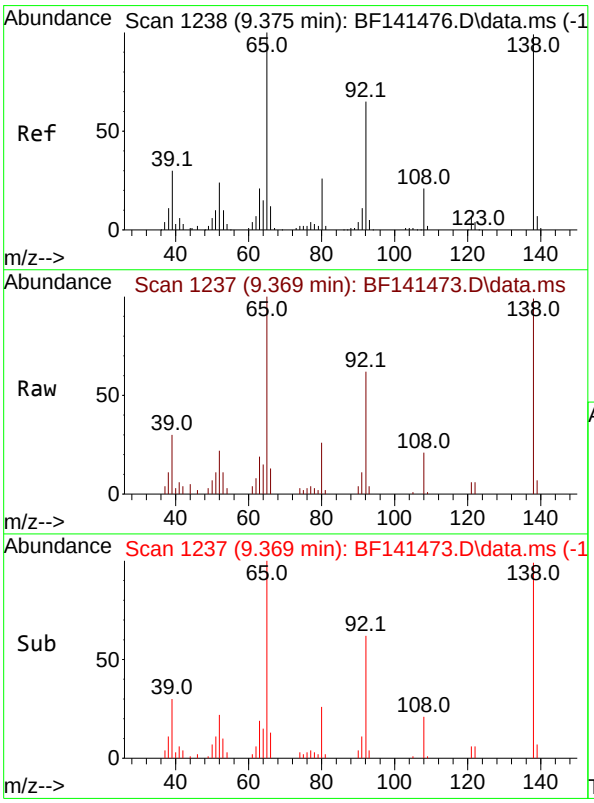
#47
2-Chloronaphthalene
Concen: 5.088 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 58201

Ion	Ratio	Lower	Upper
162	100		
127	42.5	34.1	51.1
164	32.4	26.3	39.5

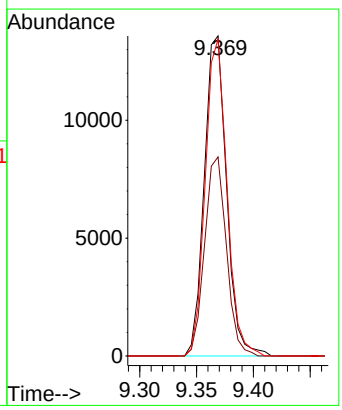


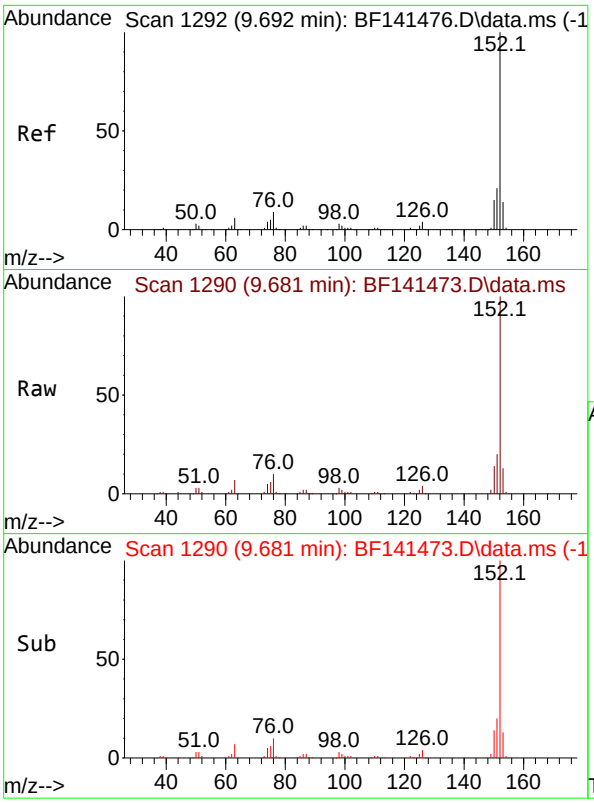


#48
2-Nitroaniline
Concen: 4.818 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 65 Resp: 18494

Ion	Ratio	Lower	Upper
65	100		
92	62.2	52.2	78.2
138	99.0	79.5	119.3



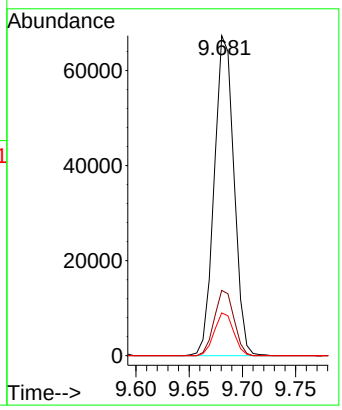


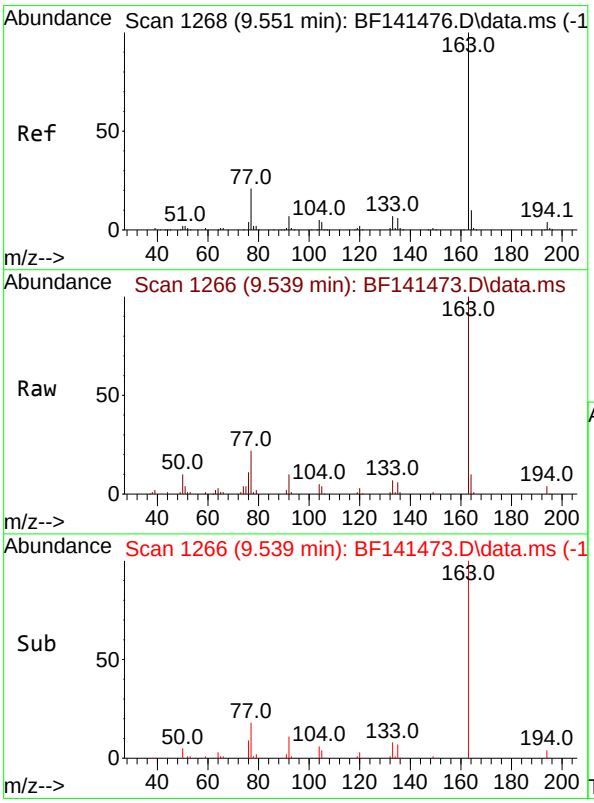
#49
Acenaphthylene
Concen: 5.097 ng
RT: 9.681 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 86721

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.4	10.9	16.3

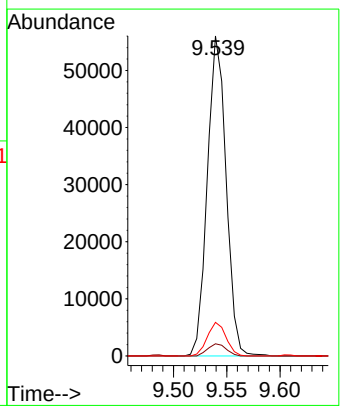


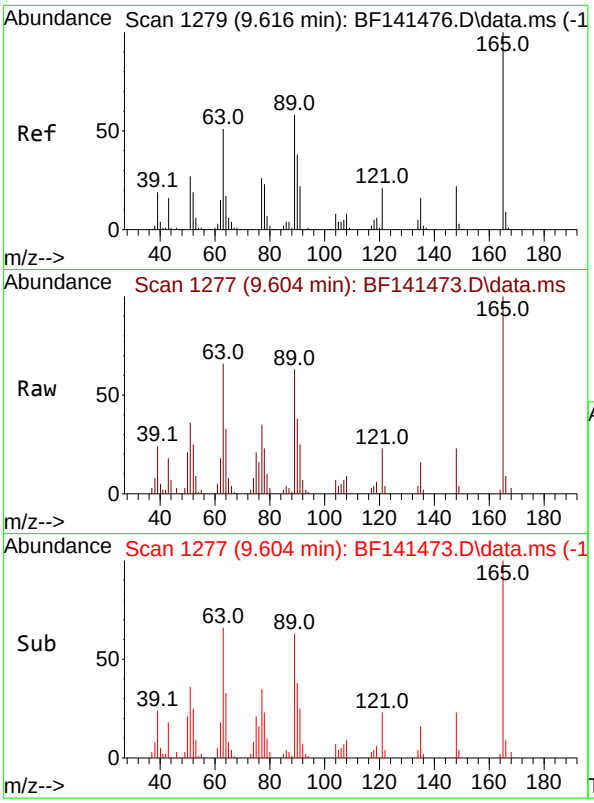


#50
Dimethylphthalate
Concen: 5.088 ng
RT: 9.539 min Scan# 1266
Delta R.T. -0.023 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:163 Resp: 68921

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.5	7.9	11.9



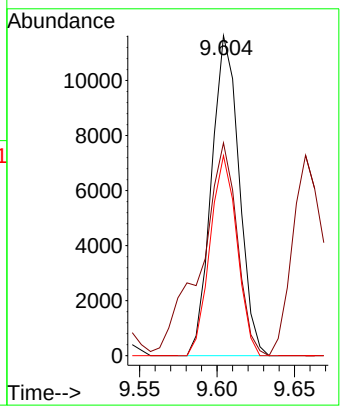


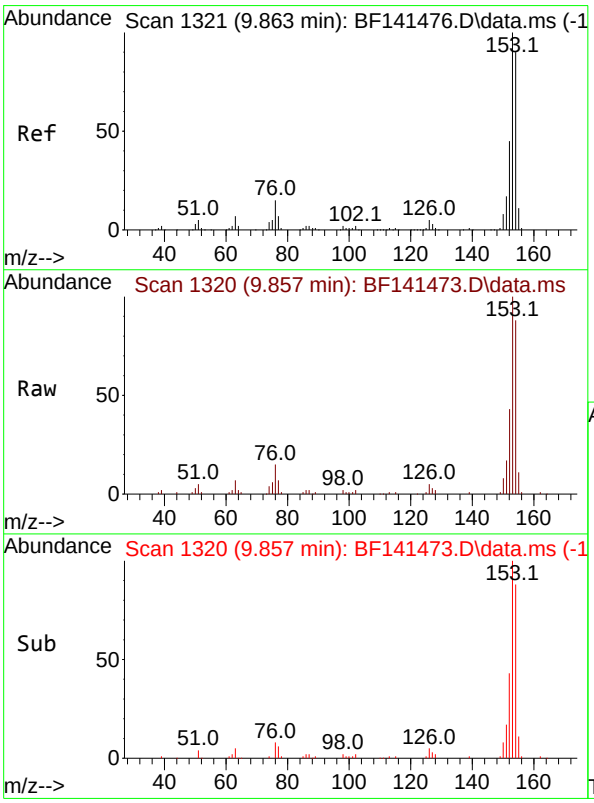
#51
2,6-Dinitrotoluene
Concen: 4.861 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 14394

Ion	Ratio	Lower	Upper
165	100		
63	66.5	49.4	74.0
89	62.5	46.5	69.7

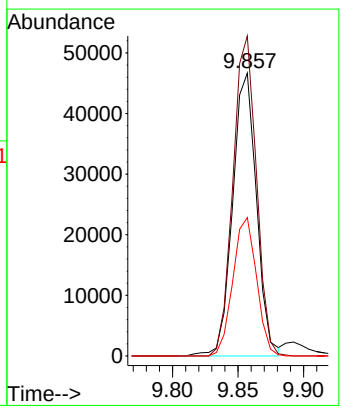


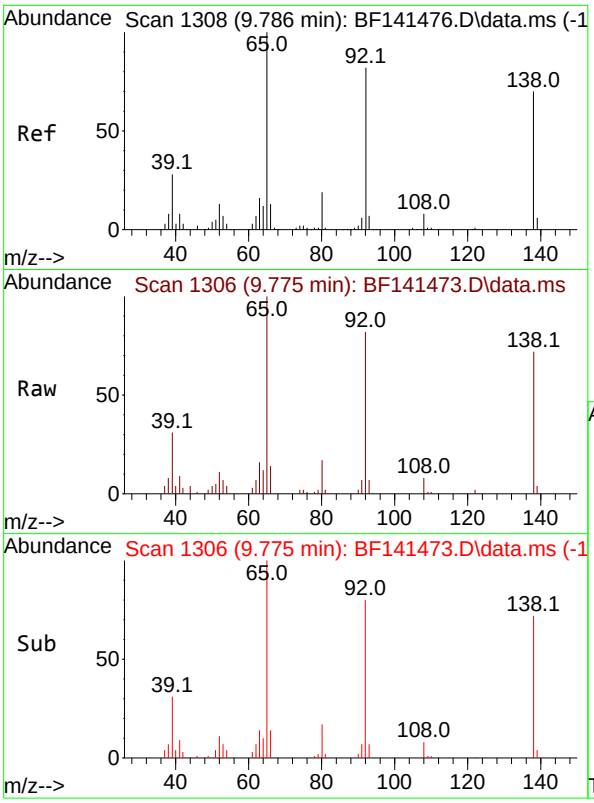


#52
Acenaphthene
Concen: 5.171 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:154 Resp: 59139

Ion	Ratio	Lower	Upper
154	100		
153	113.1	89.2	133.8
152	48.9	39.8	59.8



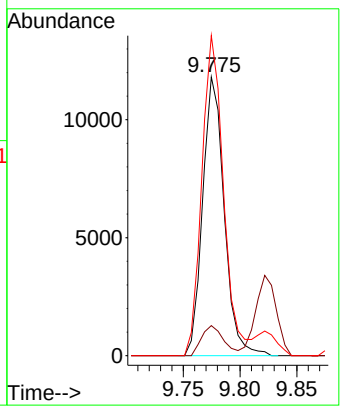


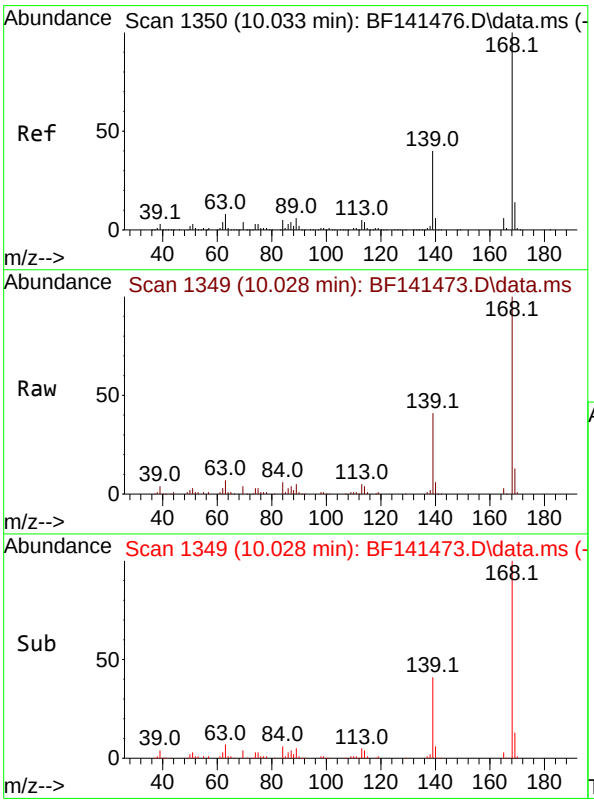
#53
3-Nitroaniline
Concen: 4.884 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 15563

Ion	Ratio	Lower	Upper
138	100		
108	10.8	9.0	13.4
92	114.8	93.7	140.5

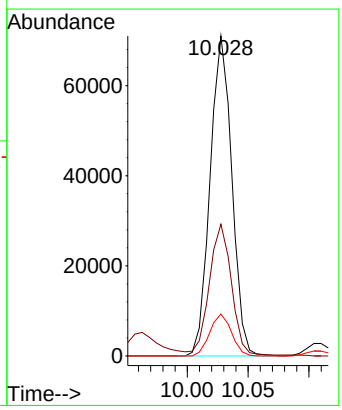


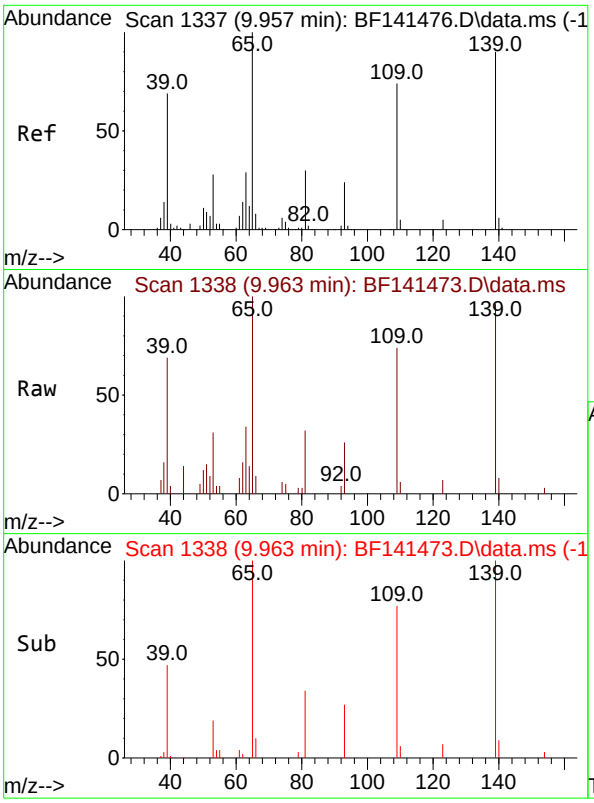


#55
Dibenzofuran
Concen: 5.252 ng
RT: 10.028 min Scan# 1349
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:168 Resp: 88178

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.7	49.1
169	13.1	10.8	16.2



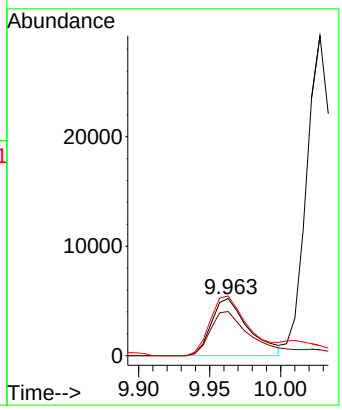


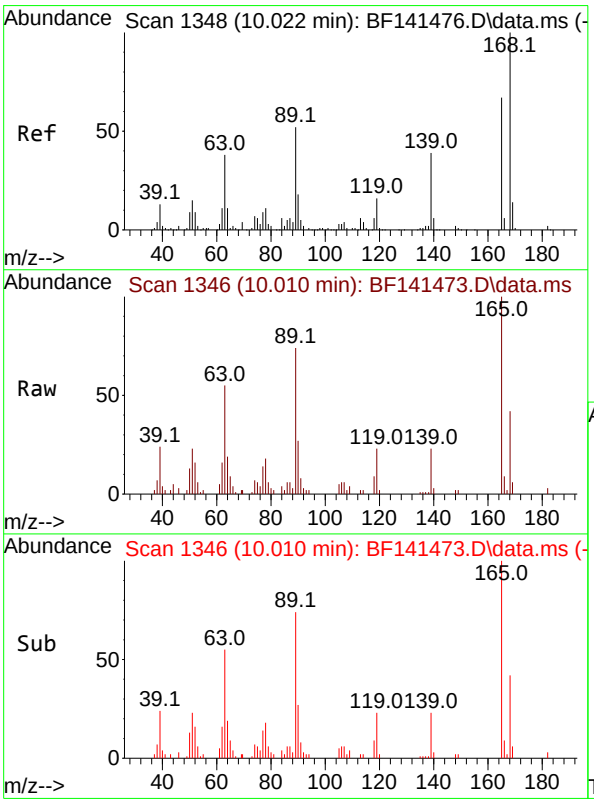
#56
4-Nitrophenol
Concen: 4.008 ng
RT: 9.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 9482

Ion	Ratio	Lower	Upper
139	100		
109	77.2	62.0	102.0
65	104.4	91.2	131.2

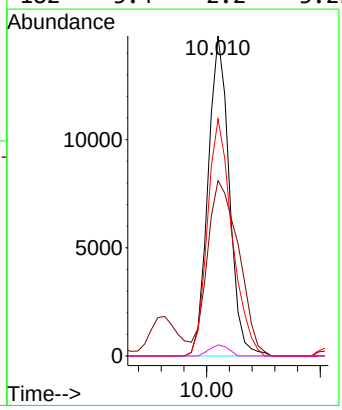


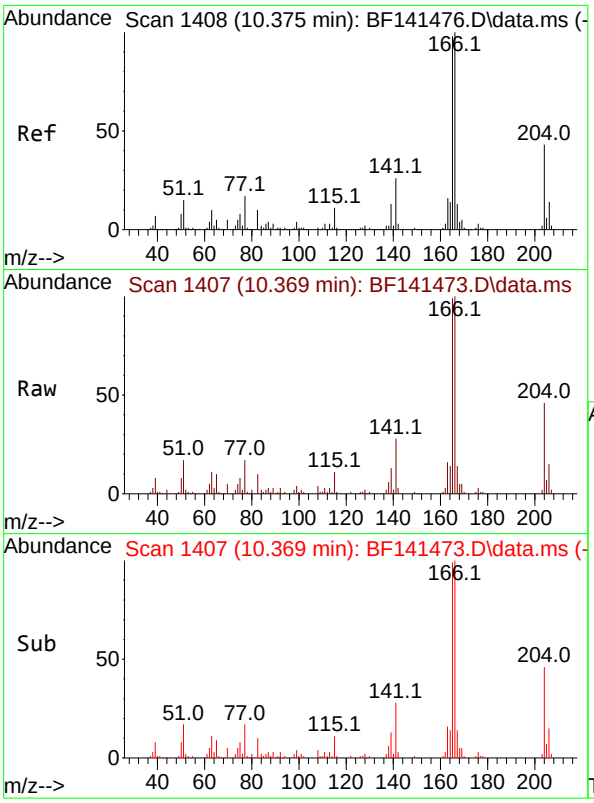


#57
2,4-Dinitrotoluene
Concen: 4.842 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:165 Resp: 19087

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



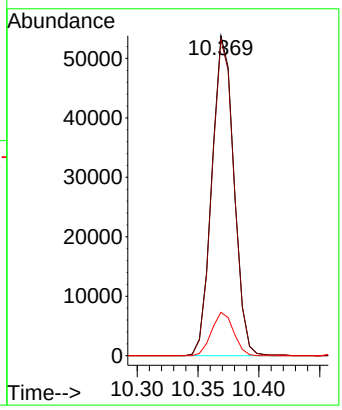


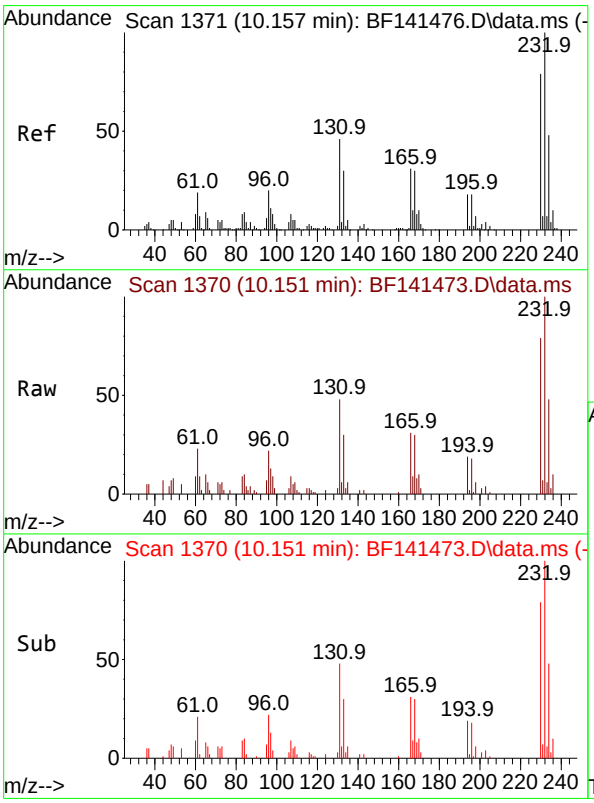
#58
Fluorene
Concen: 5.220 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 67764

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.2	117.2
167	13.5	10.7	16.1

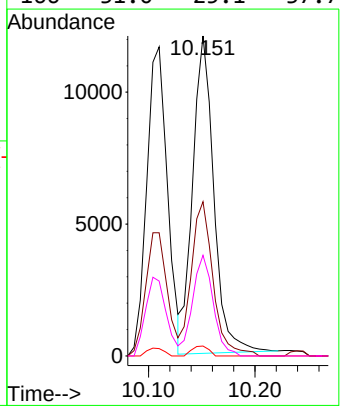


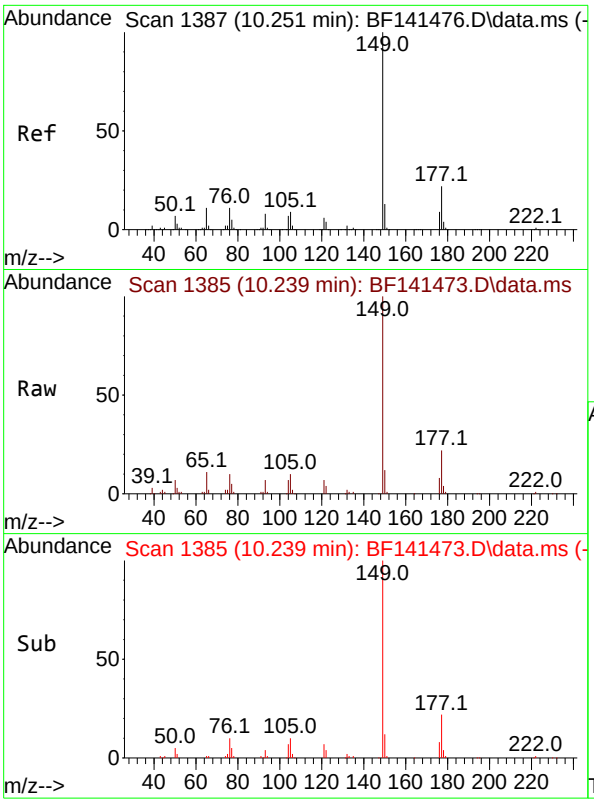


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.760 ng
RT: 10.151 min Scan# 1370
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:232 Resp: 16570

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



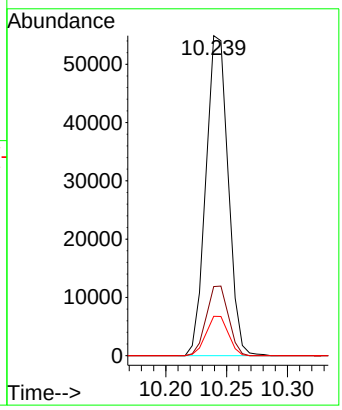


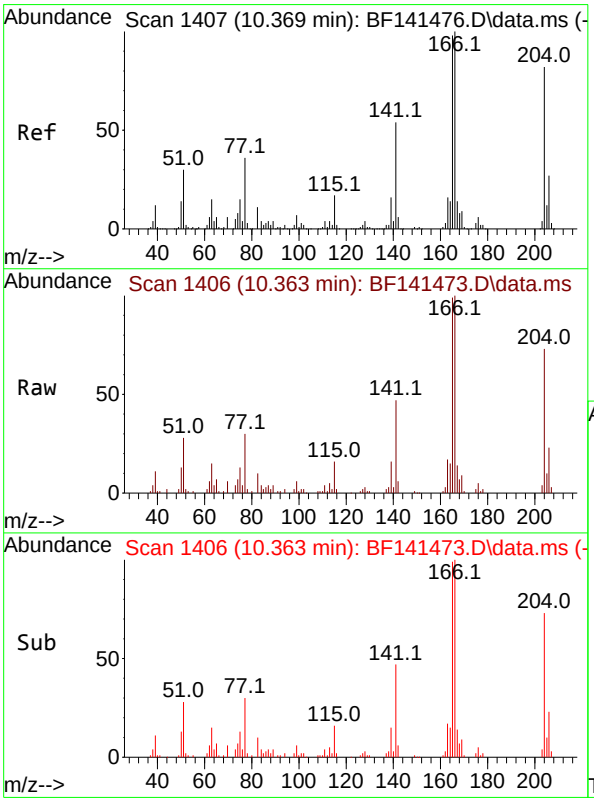
#60
Diethylphthalate
Concen: 5.241 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 69845

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

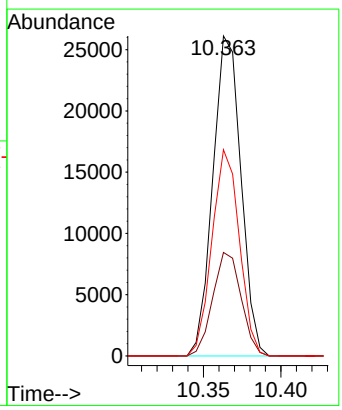


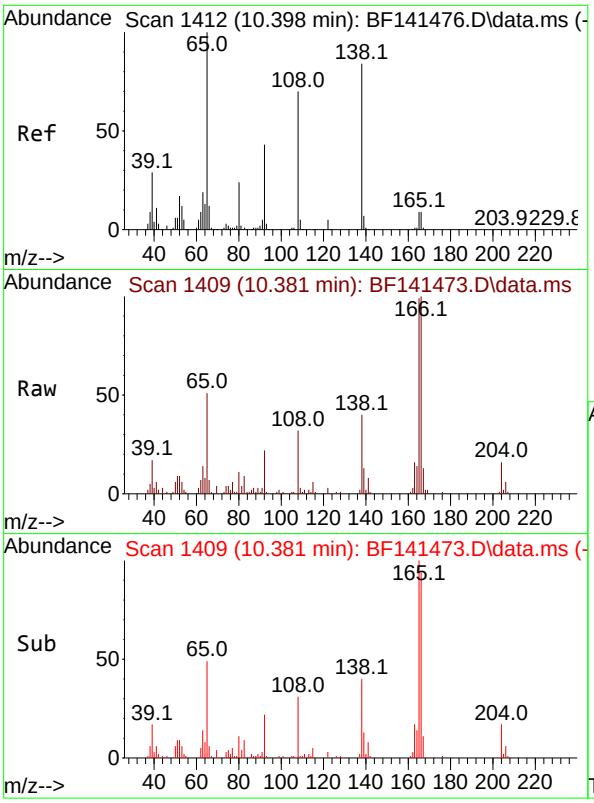


#61
4-Chlorophenyl-phenylether
Concen: 5.277 ng
RT: 10.363 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:204 Resp: 32951

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



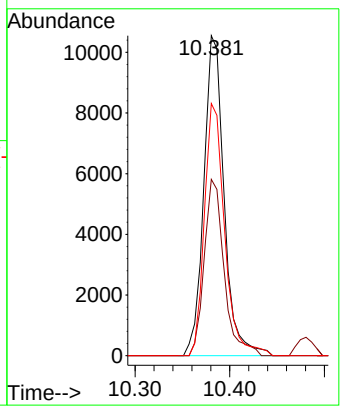


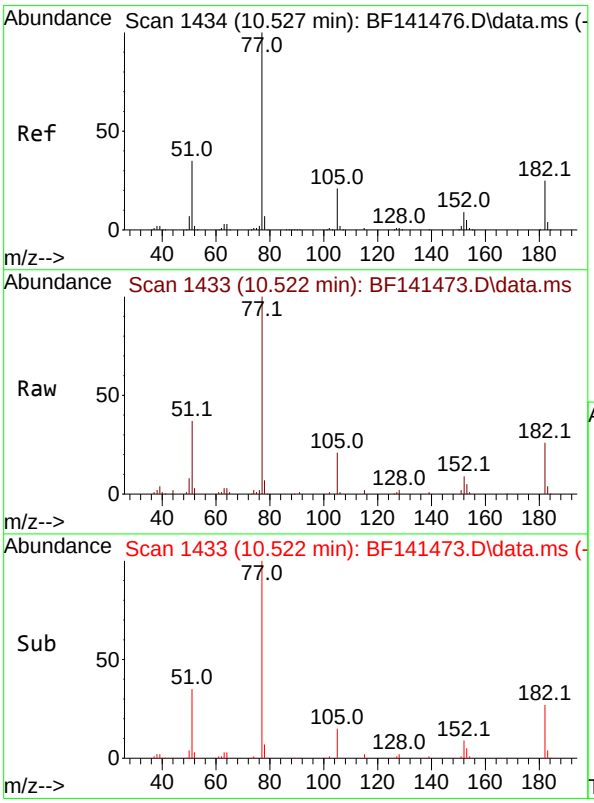
#62
4-Nitroaniline
Concen: 4.855 ng
RT: 10.381 min Scan# 14
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 15711

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

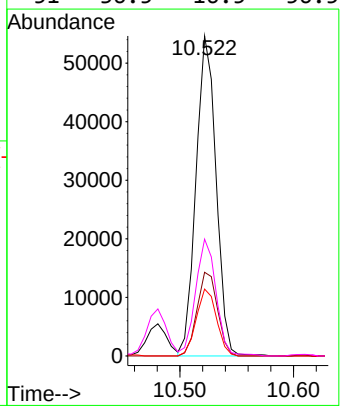


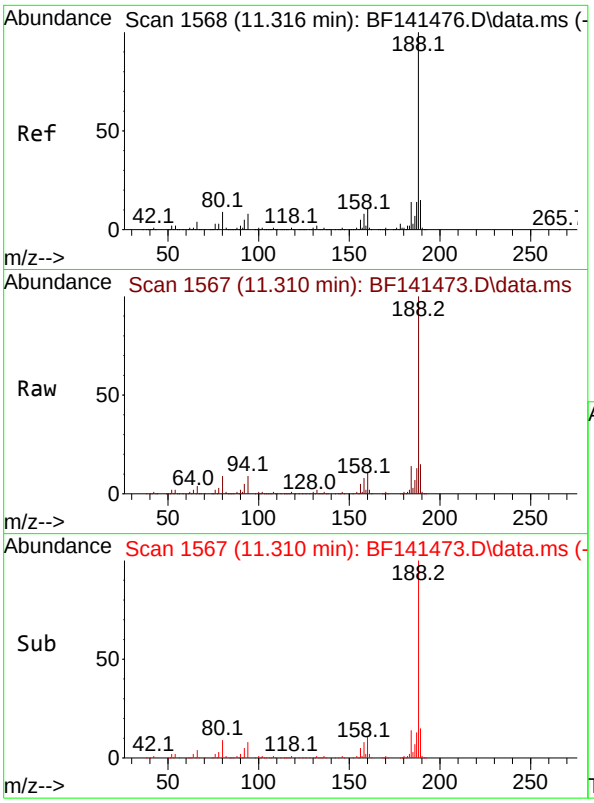


#63
Azobenzene
Concen: 5.077 ng
RT: 10.522 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion: 77 Resp: 67256

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



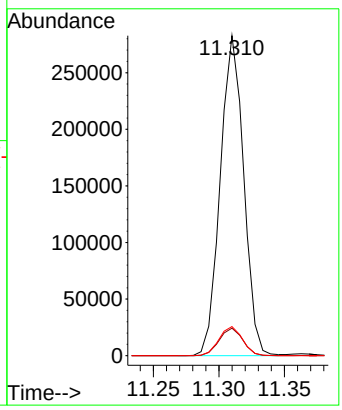


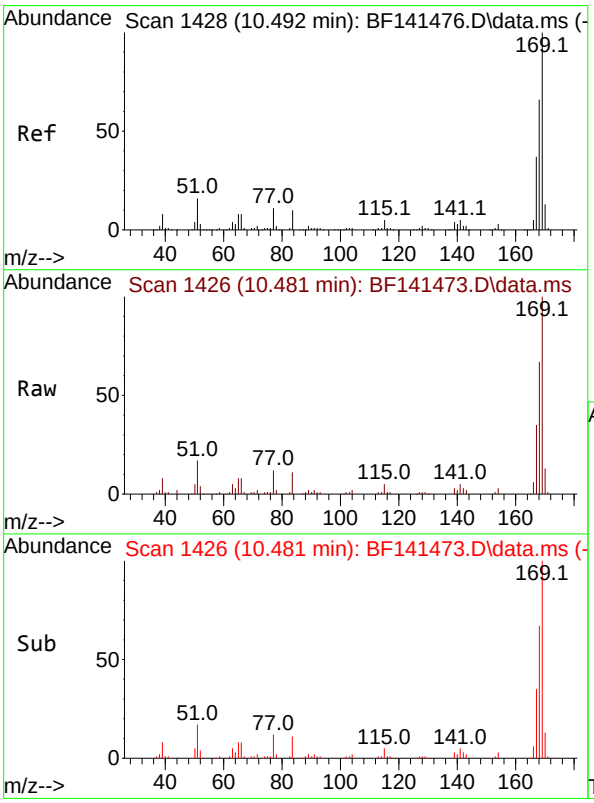
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 351213

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.1	7.3	10.9

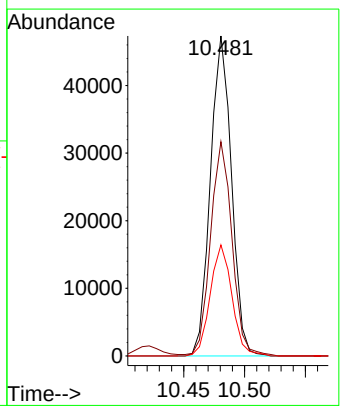


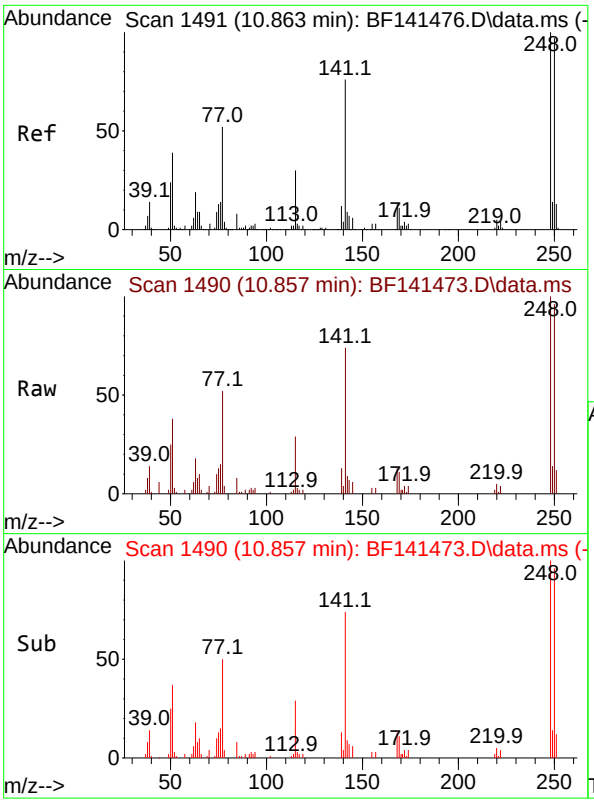


#66
n-Nitrosodiphenylamine
Concen: 5.076 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:169 Resp: 57063

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.3	79.9
167	34.7	29.4	44.2



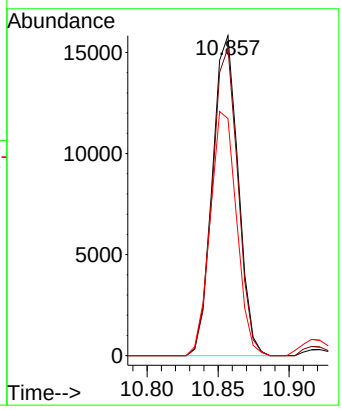


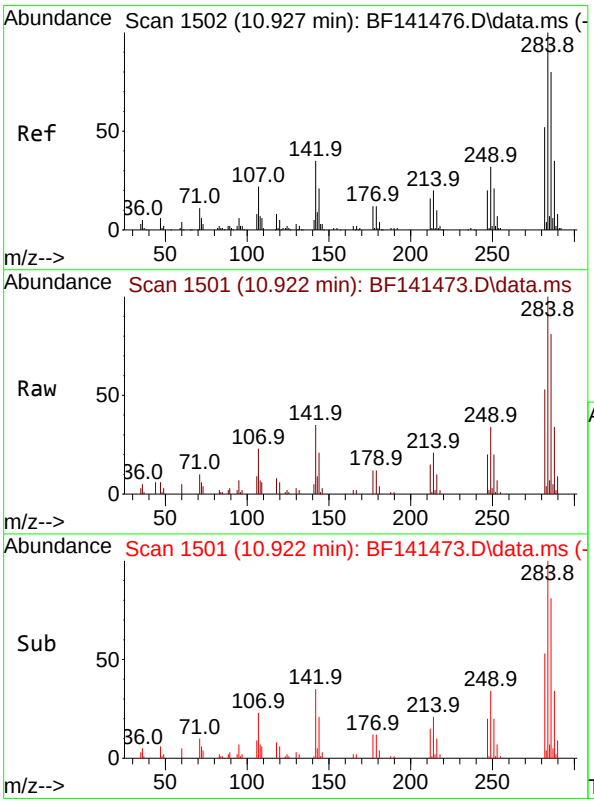
#67
4-Bromophenyl-phenylether
Concen: 5.098 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 20012

Ion	Ratio	Lower	Upper
248	100		
250	96.2	77.8	116.6
141	74.1	60.6	90.8

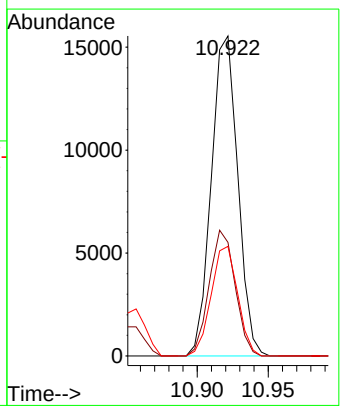


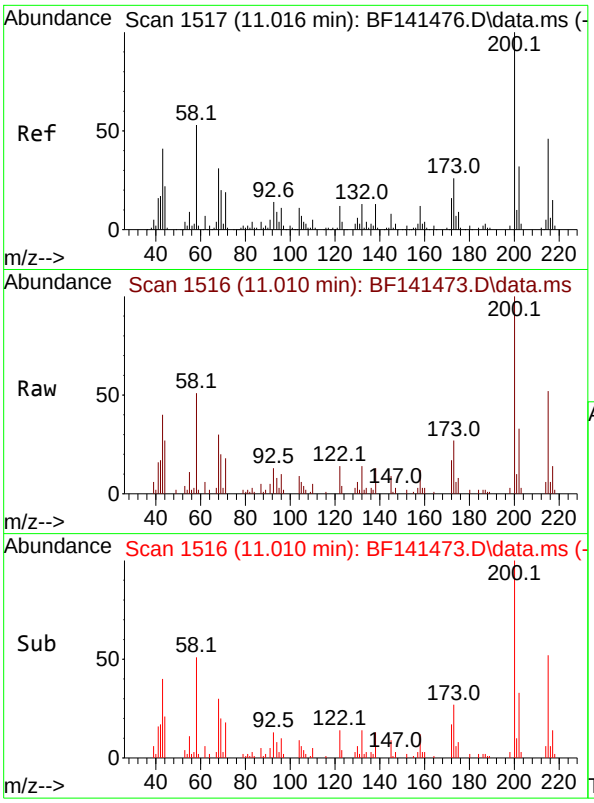


#68
Hexachlorobenzene
Concen: 4.982 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:284 Resp: 20138

Ion	Ratio	Lower	Upper
284	100		
142	35.5	28.0	42.0
249	34.3	25.8	38.8



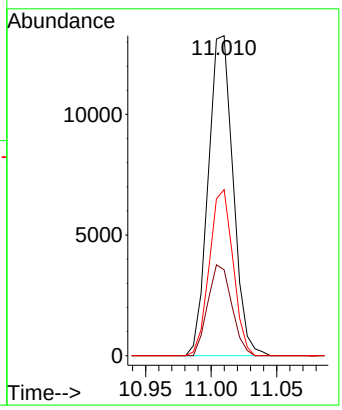


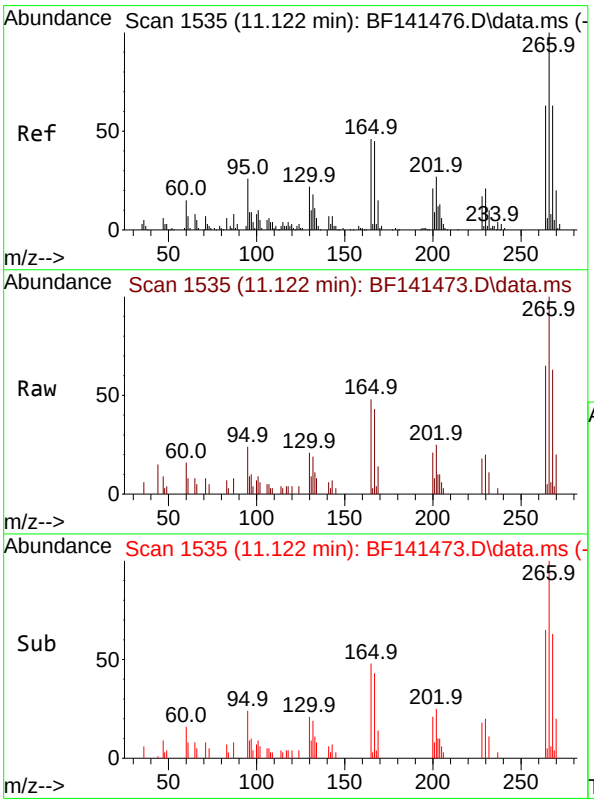
#69
Atrazine
Concen: 5.194 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 17519

Ion	Ratio	Lower	Upper
200	100		
173	26.9	5.9	45.9
215	51.9	25.9	65.9

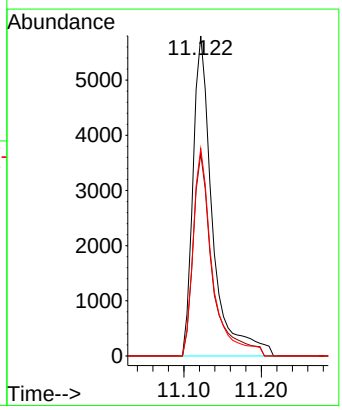


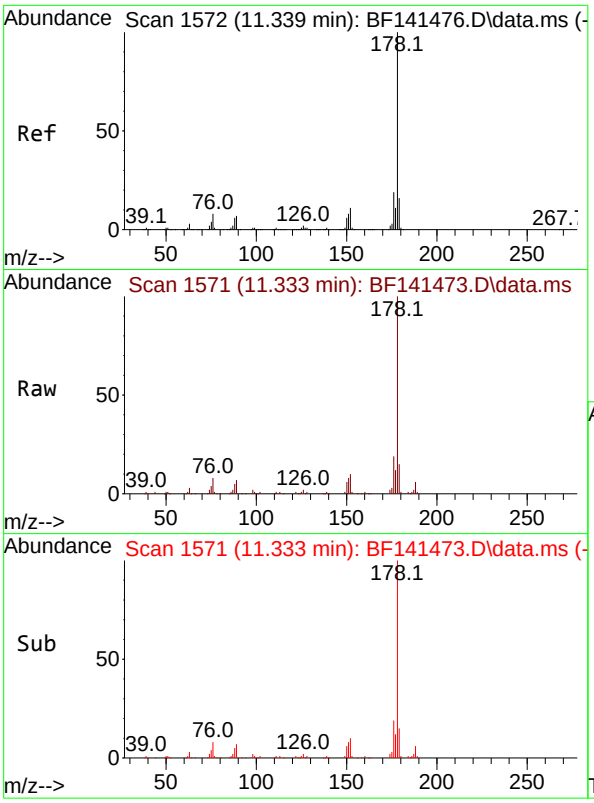


#70
Pentachlorophenol
Concen: 3.928 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:266 Resp: 10151

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.1	75.1
264	64.8	50.1	75.1



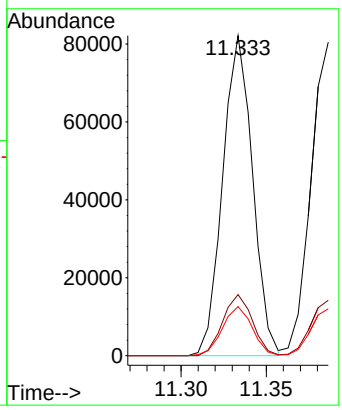


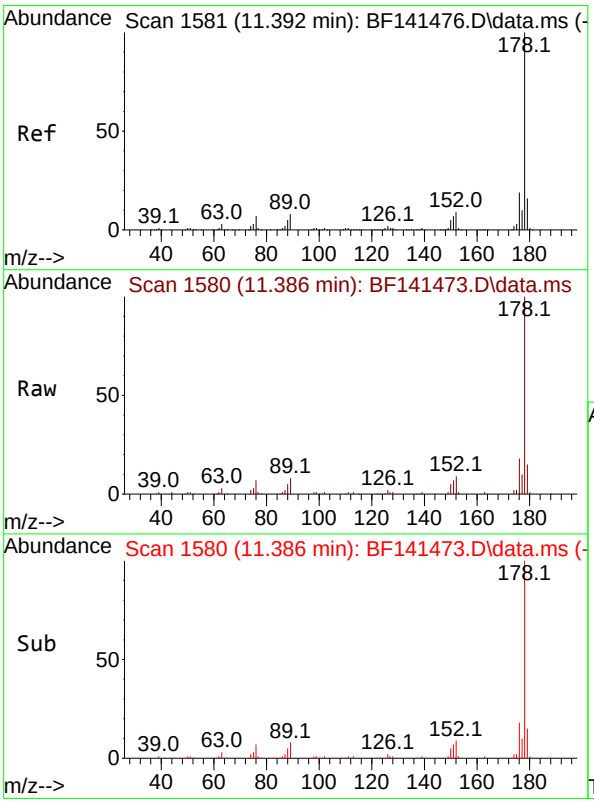
#71
Phenanthrene
Concen: 5.183 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 100202

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.4	18.6

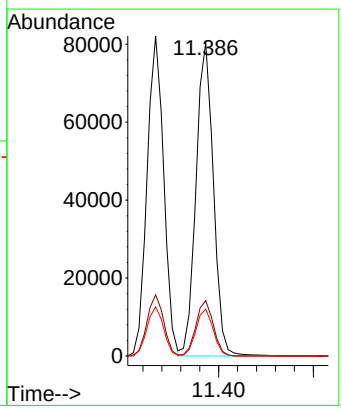


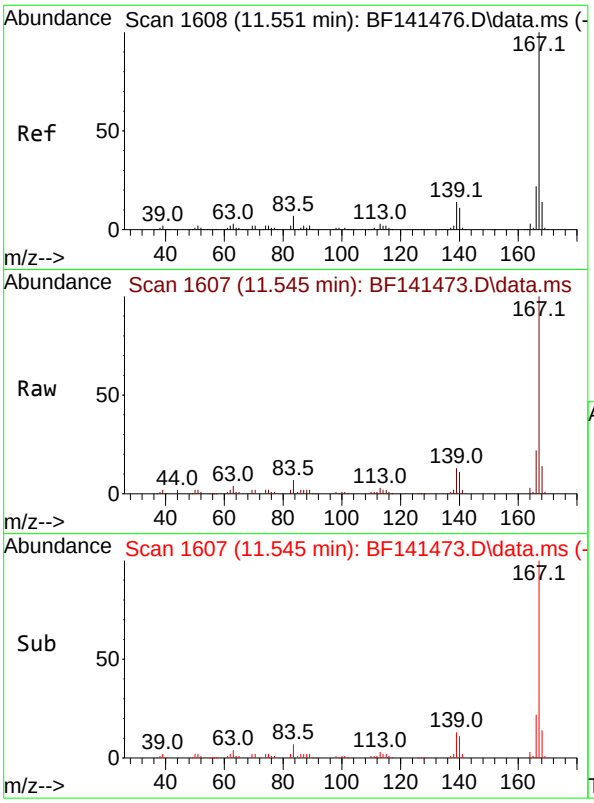


#72
Anthracene
Concen: 5.279 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:178 Resp: 102596

Ion	Ratio	Lower	Upper
178	100		
176	17.6	14.8	22.2
179	15.0	12.4	18.6



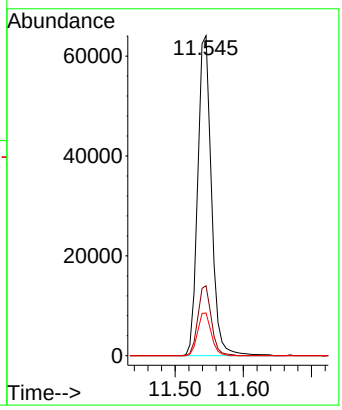


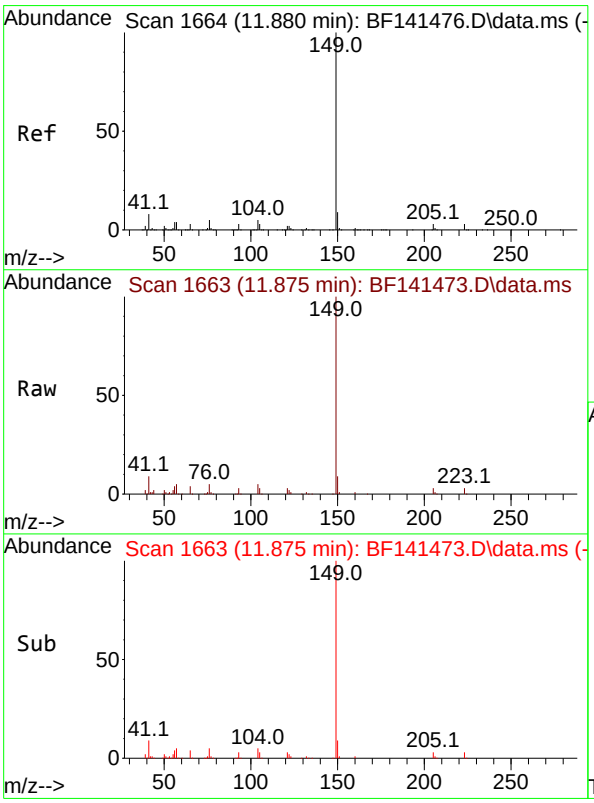
#73
Carbazole
Concen: 5.131 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 89721

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.4	10.9	16.3

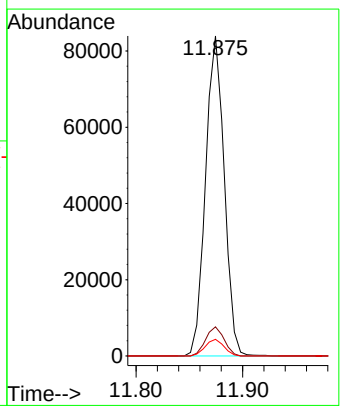


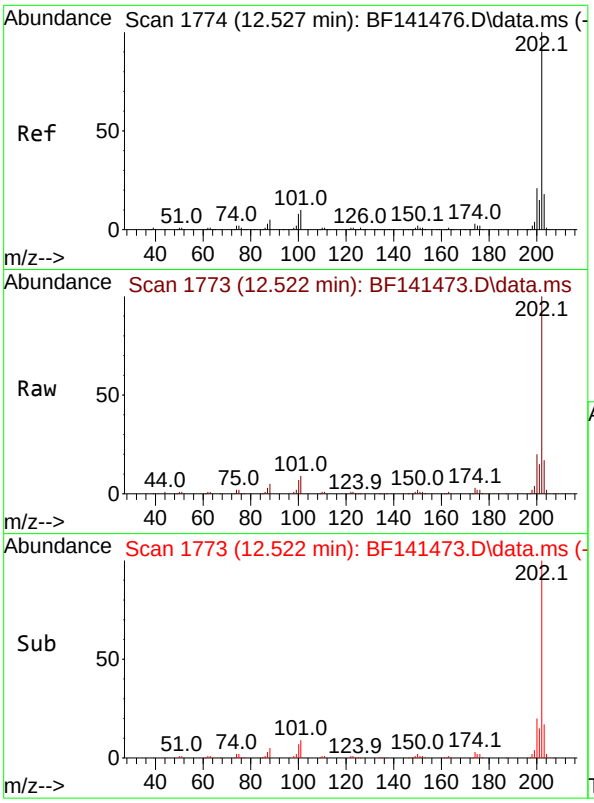


#74
Di-n-butylphthalate
Concen: 5.066 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 102296

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



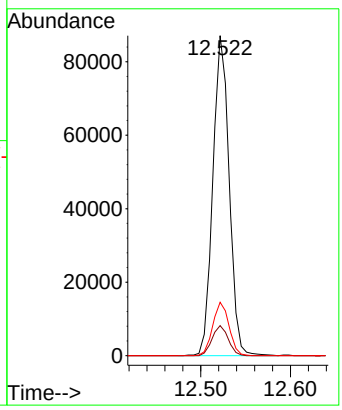


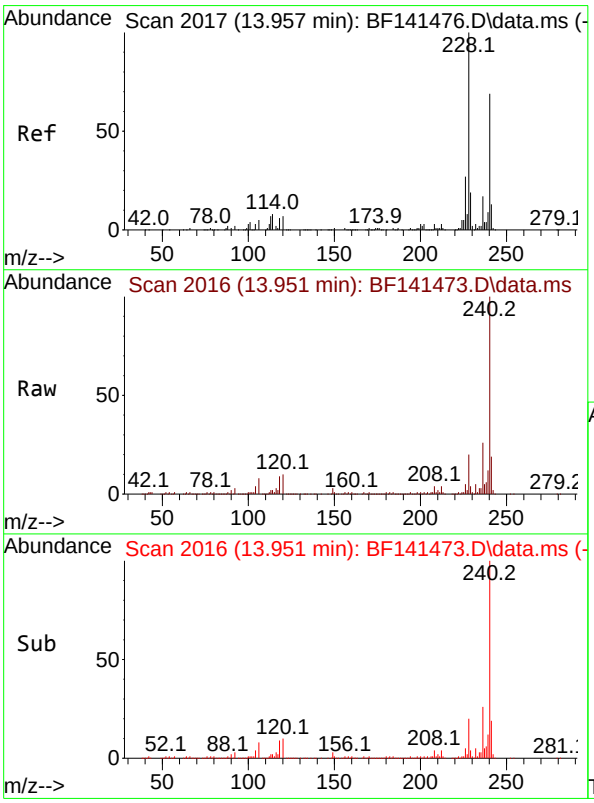
#75
Fluoranthene
Concen: 5.361 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 109883

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	30.2
203	16.7	0.0	37.6

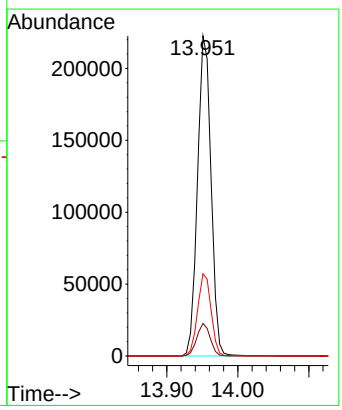


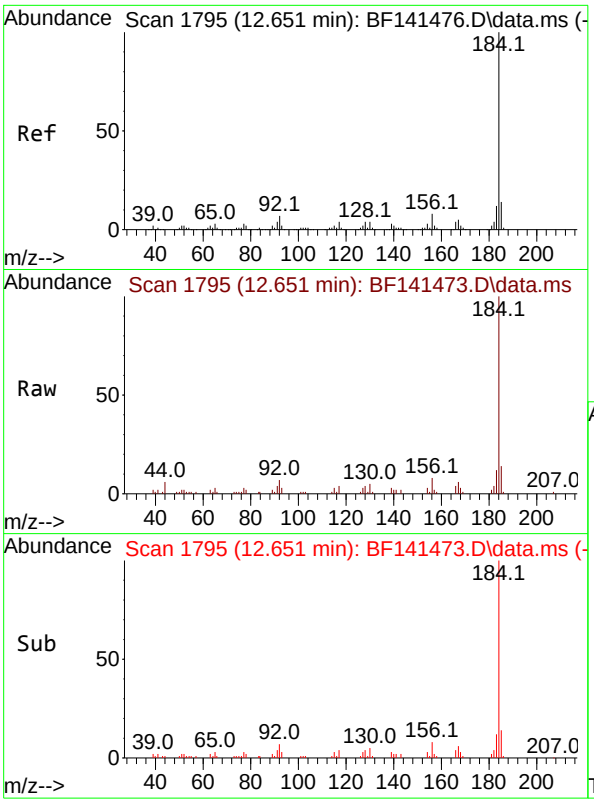


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:240 Resp: 295087

Ion	Ratio	Lower	Upper
240	100		
120	10.2	8.0	12.0
236	25.7	19.8	29.8



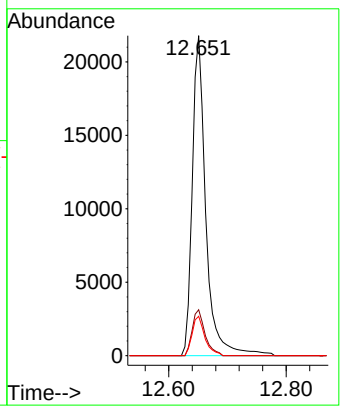


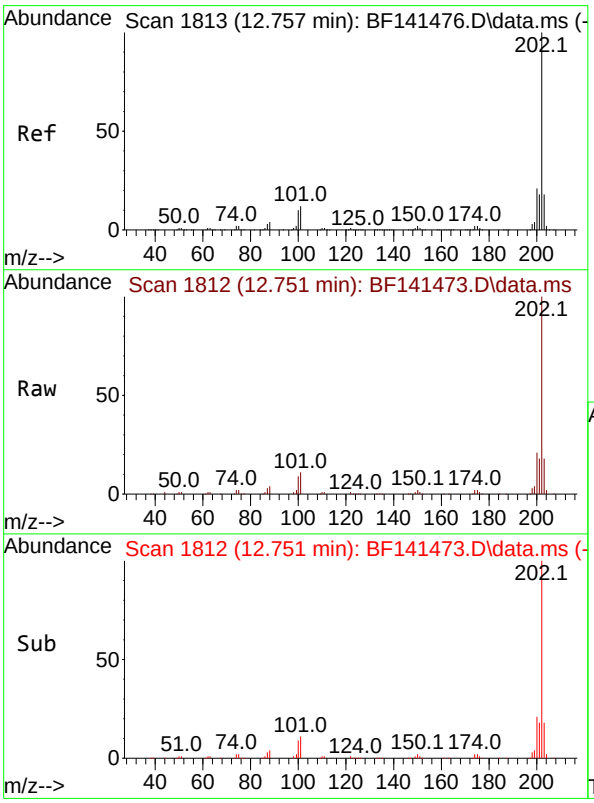
#77
Benzidine
Concen: 5.370 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 34946

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.3	16.9
183	12.3	9.3	13.9

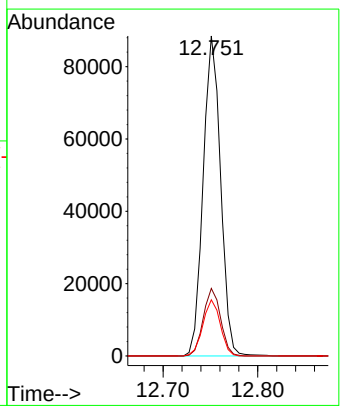


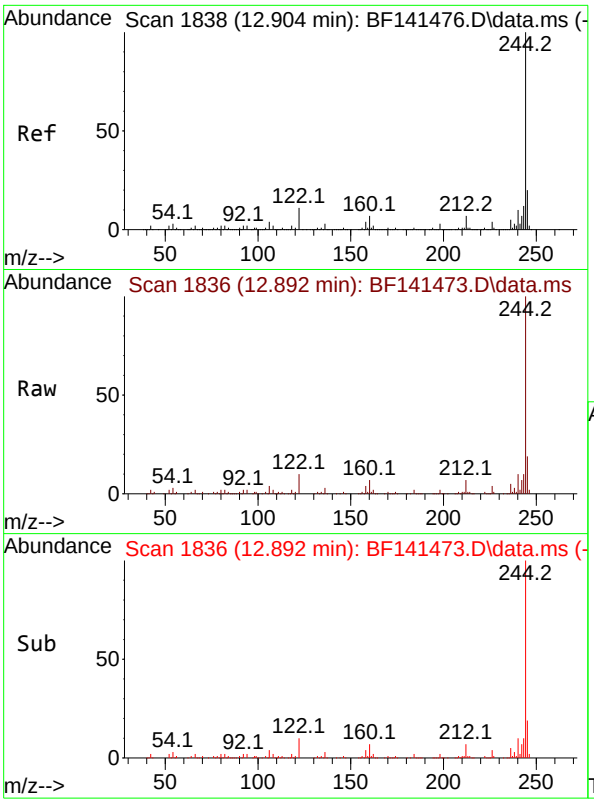


#78
Pyrene
Concen: 4.486 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:202 Resp: 112700

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.6	14.3	21.5



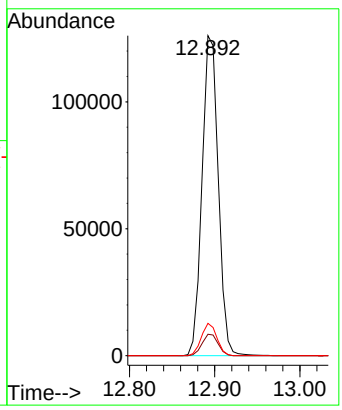


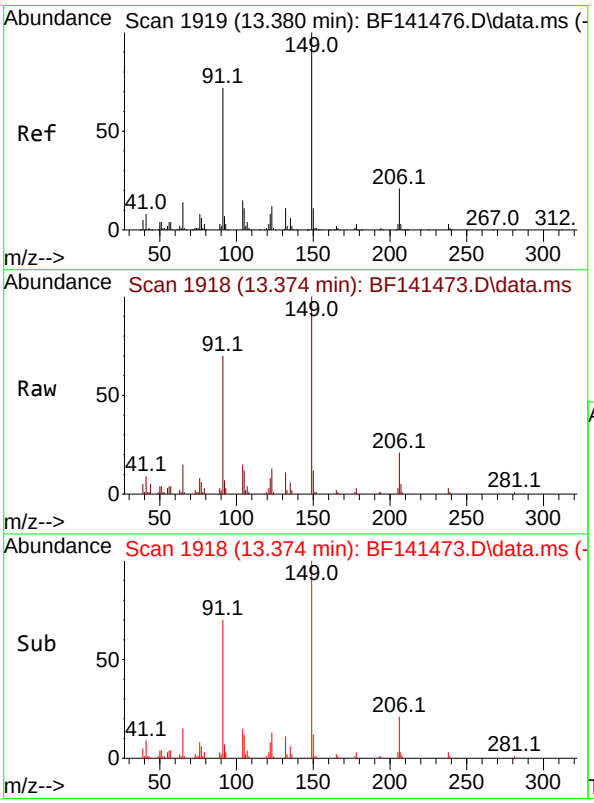
#79
Terphenyl-d14
Concen: 9.531 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 166601

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	10.1	8.4	12.6

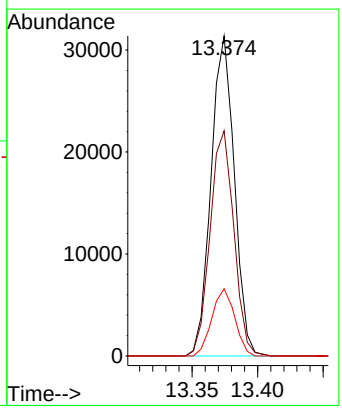


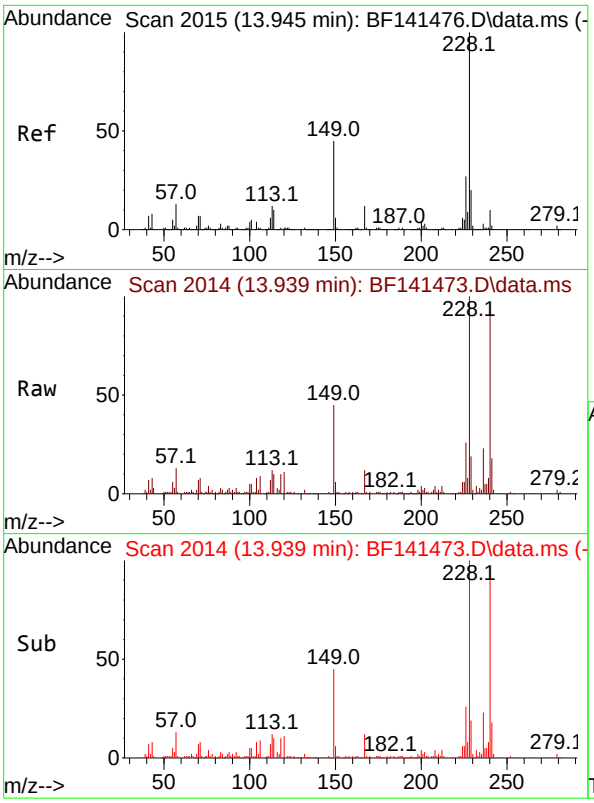


#80
Butylbenzylphthalate
Concen: 4.449 ng
RT: 13.374 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 38714

Ion	Ratio	Lower	Upper
149	100		
91	70.4	57.8	86.8
206	21.0	16.7	25.1



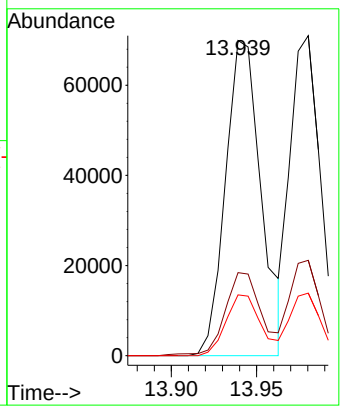


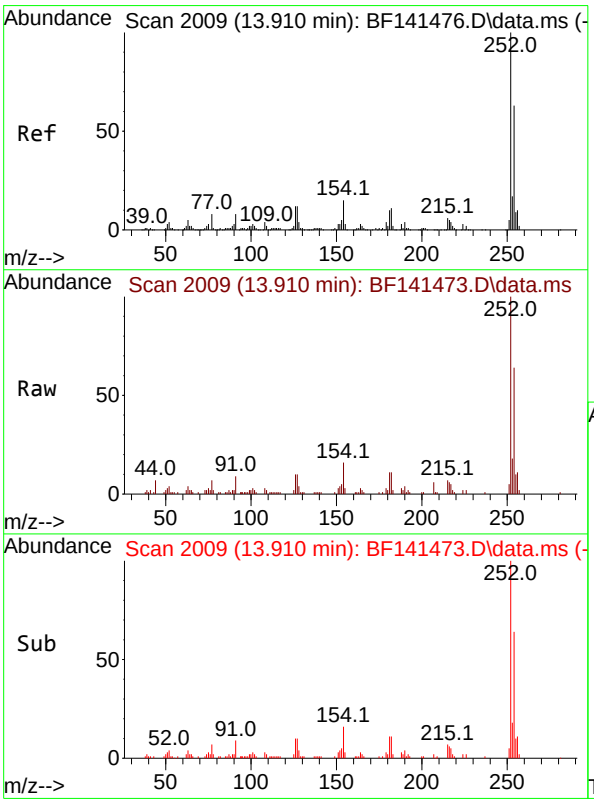
#81
Benzo(a)anthracene
Concen: 5.193 ng
RT: 13.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 101861

Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.8	32.8
229	19.3	15.8	23.6

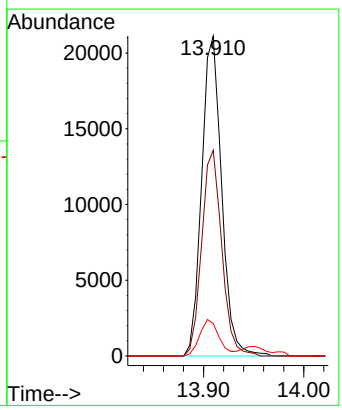


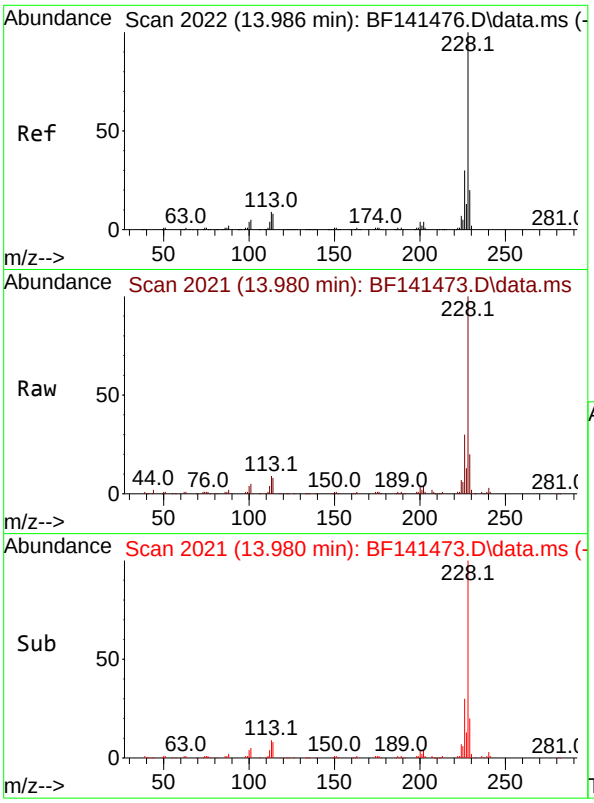


#82
3,3'-Dichlorobenzidine
Concen: 5.216 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:252 Resp: 29306

Ion	Ratio	Lower	Upper
252	100		
254	64.2	50.6	76.0
126	10.2	9.3	13.9



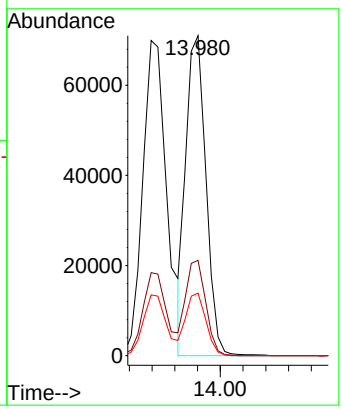


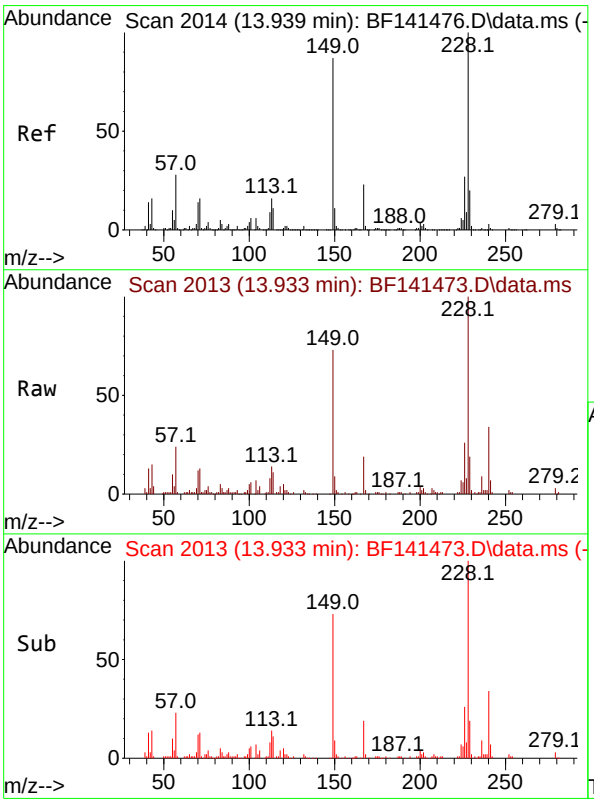
#83
Chrysene
Concen: 4.834 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 87555

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.5	15.7	23.5

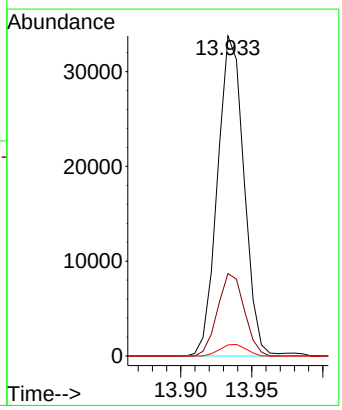


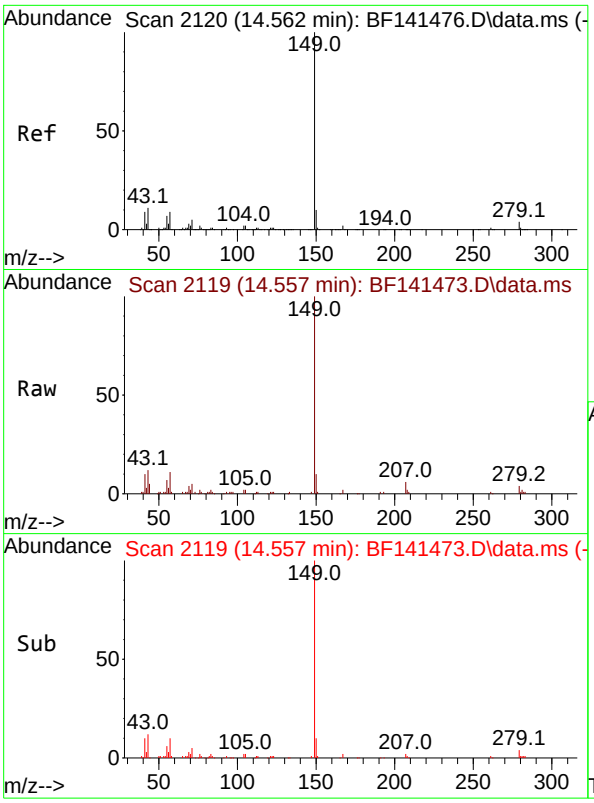


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.457 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:149 Resp: 43735

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.4	3.1	4.7



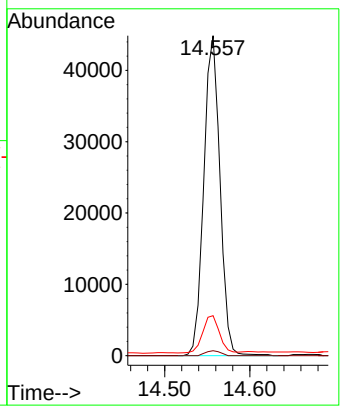


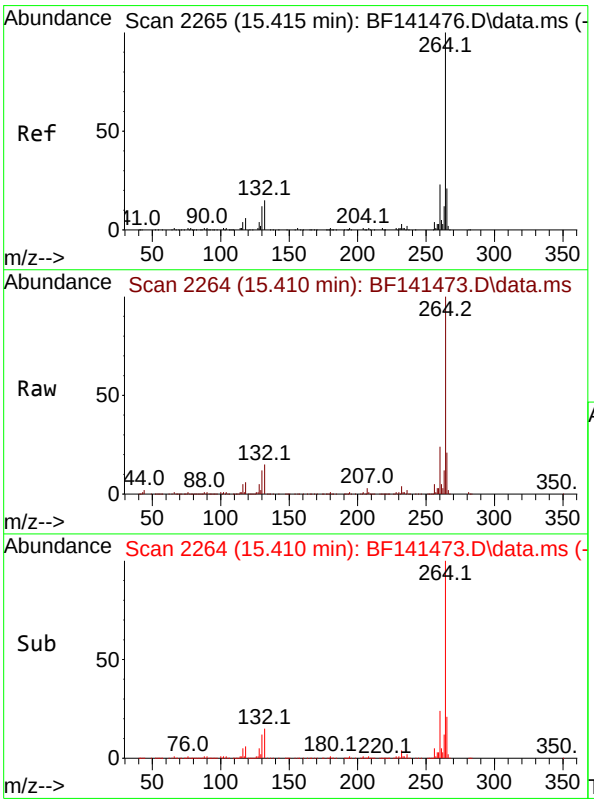
#85
Di-n-octyl phthalate
Concen: 4.229 ng
RT: 14.557 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 59200

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

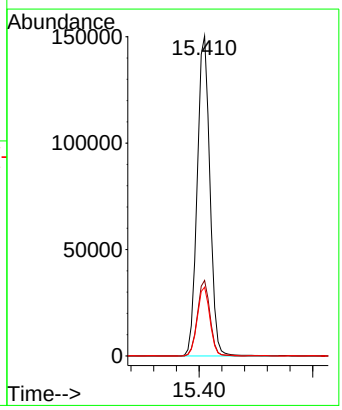


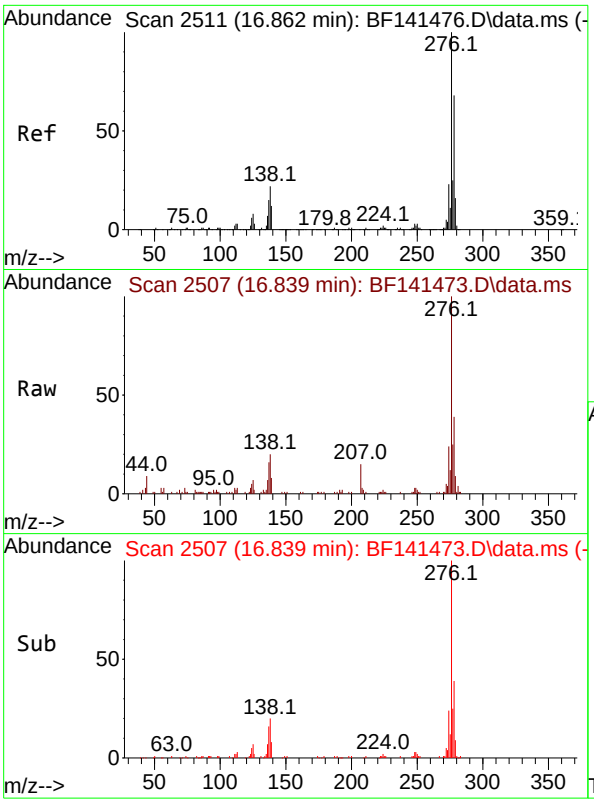


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2264
Delta R.T. -0.006 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:264 Resp: 233325

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



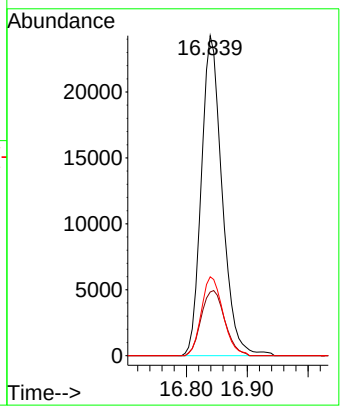


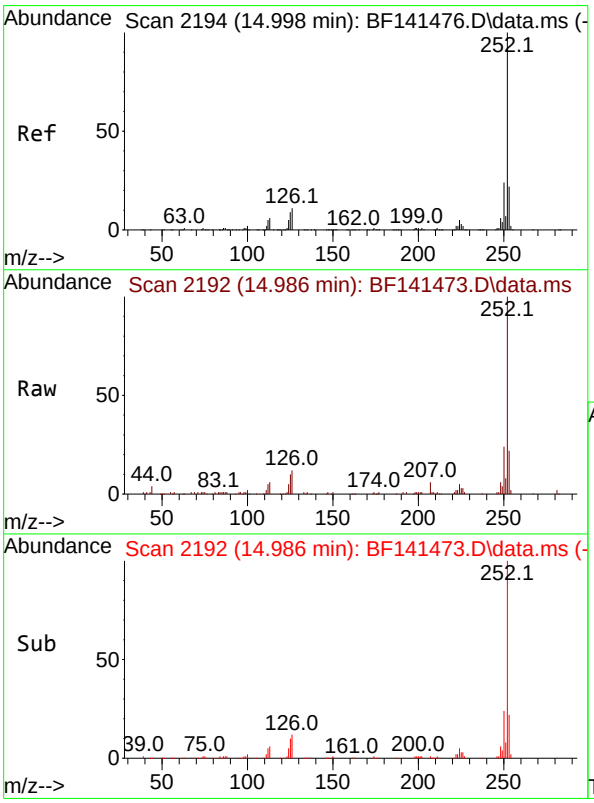
#87
Indeno(1,2,3-cd)pyrene
Concen: 3.993 ng
RT: 16.839 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 57572

Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	25.6	20.4	30.6

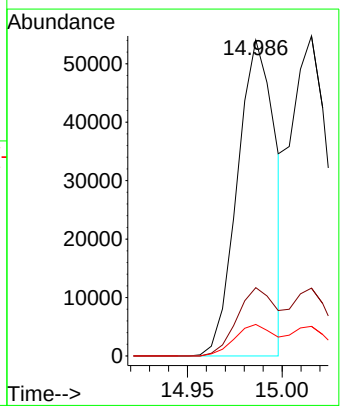


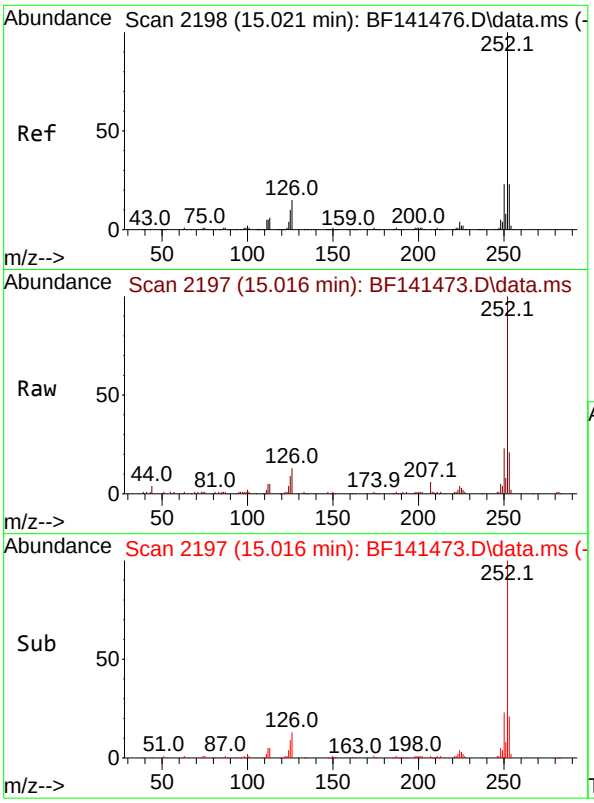


#88
Benzo(b)fluoranthene
Concen: 4.789 ng
RT: 14.986 min Scan# 2192
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:252 Resp: 75033

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	10.0	7.0	10.6



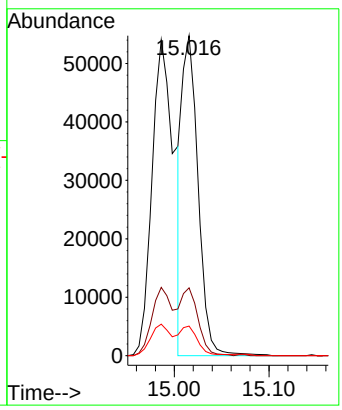


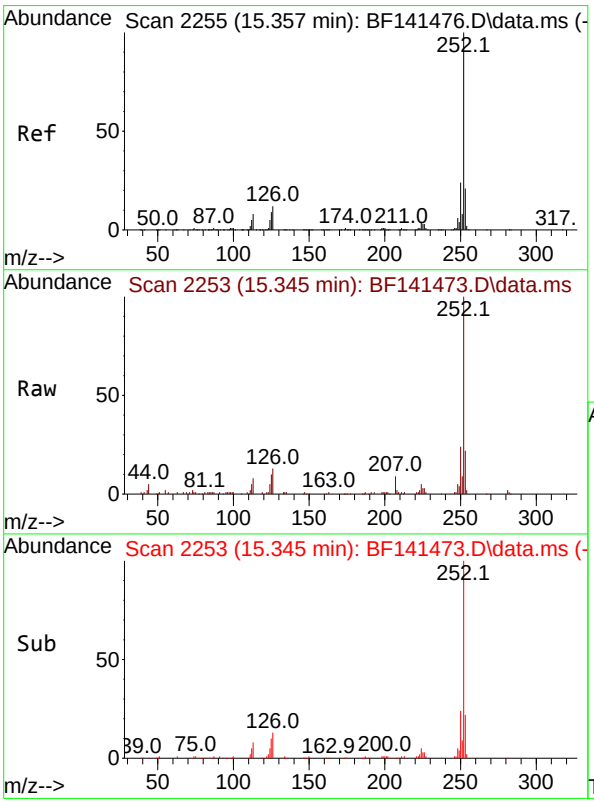
#89
Benzo(k)fluoranthene
Concen: 4.853 ng
RT: 15.016 min Scan# 21
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 64919

Ion	Ratio	Lower	Upper
252	100		
253	21.2	18.0	27.0
125	9.2	7.4	11.0

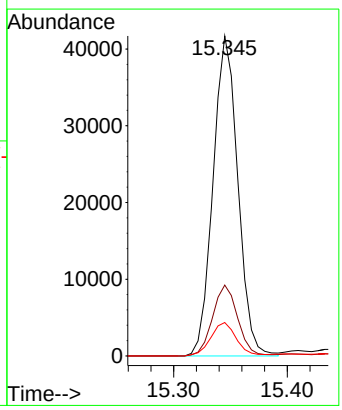


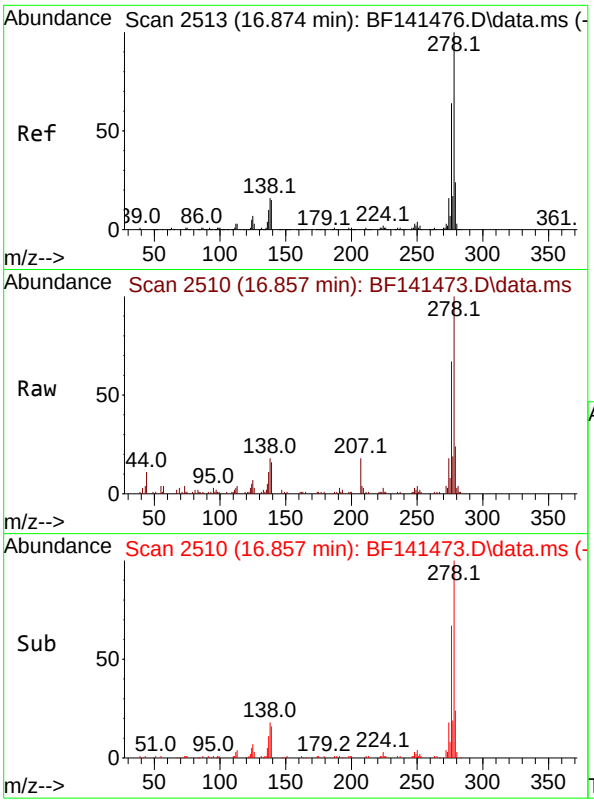


#90
Benzo(a)pyrene
Concen: 4.993 ng
RT: 15.345 min Scan# 2253
Delta R.T. -0.017 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:252 Resp: 63295

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	10.4	7.4	11.2



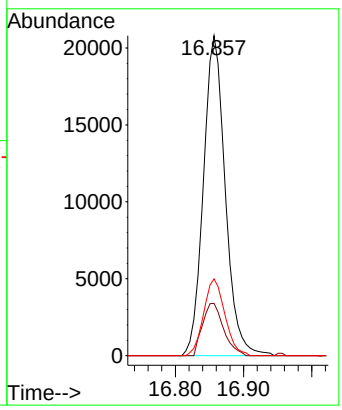


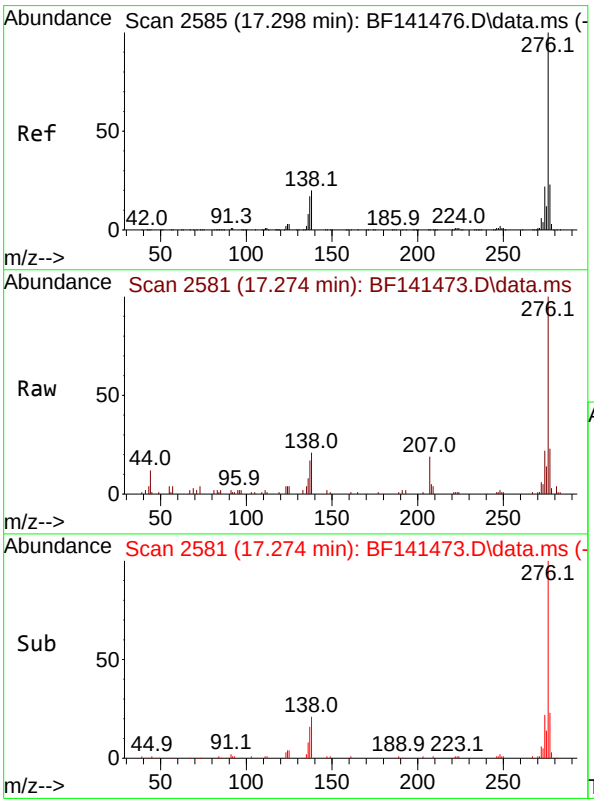
#91
Dibenzo(a,h)anthracene
Concen: 3.974 ng
RT: 16.857 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 46421

Ion	Ratio	Lower	Upper
278	100		
139	16.4	11.8	17.6
279	24.0	19.1	28.7

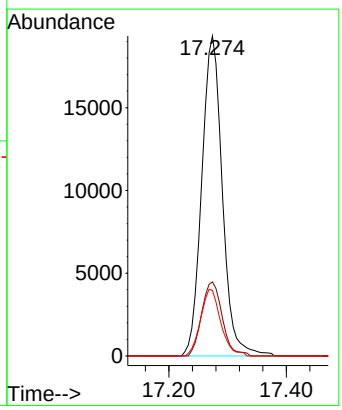




#92
Benzo(g,h,i)perylene
Concen: 3.841 ng
RT: 17.274 min Scan# 2581
Delta R.T. -0.041 min
Lab File: BF141473.D
Acq: 06 Feb 2025 11:34

Tgt Ion:276 Resp: 46952

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	20.5	15.9	23.9



Quantitation Report (QT Reviewed)

ICAL Form

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

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	88879	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	361197	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	200046	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	347312	20.000	ng		0.00
76) Chrysene-d12	13.957	240	284792	20.000	ng		0.00
86) Perylene-d12	15.416	264	215900	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	114669	20.227	ng		0.00
7) Phenol-d6	6.422	99	144805	20.209	ng		-0.02
23) Nitrobenzene-d5	7.345	82	136996	19.783	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	40073	19.941	ng		-0.02
45) 2-Fluorobiphenyl	9.145	172	271988	20.947	ng		0.00
79) Terphenyl-d14	12.898	244	314541	18.645	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.481	88	23063	10.108	ng		95
3) Pyridine	3.216	79	53532	9.859	ng		99
4) n-Nitrosodimethylamine	3.146	42	34386	9.564	ng	#	97
6) Aniline	6.446	93	68661	10.215	ng		92
8) 2-Chlorophenol	6.575	128	62679	10.232	ng		99
9) Benzaldehyde	6.334	77	44111	11.585	ng		99
10) Phenol	6.440	94	74689	10.015	ng		96
11) bis(2-Chloroethyl)ether	6.522	93	54627	9.752	ng		98
12) 1,3-Dichlorobenzene	6.728	146	65850	10.182	ng		98
13) 1,4-Dichlorobenzene	6.804	146	68330	10.341	ng		97
14) 1,2-Dichlorobenzene	6.957	146	63948	10.428	ng		99
15) Benzyl Alcohol	6.928	79	55580	10.115	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	99782	10.406	ng		98
17) 2-Methylphenol	7.045	107	48375	10.092	ng		97
18) Hexachloroethane	7.298	117	24233	9.910	ng		98
19) n-Nitroso-di-n-propyla...	7.192	70	43762	10.210	ng		97
20) 3+4-Methylphenols	7.198	107	62949	10.332	ng		96
22) Acetophenone	7.192	105	90614	10.085	ng	#	97
24) Nitrobenzene	7.363	77	67032	9.927	ng		96
25) Isophorone	7.604	82	107242	9.712	ng		99
26) 2-Nitrophenol	7.687	139	31590	9.403	ng		97
27) 2,4-Dimethylphenol	7.728	122	38303	9.759	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	70458	9.958	ng		97
29) 2,4-Dichlorophenol	7.934	162	51883	9.784	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	57937	10.033	ng		97
31) Naphthalene	8.092	128	188046	10.002	ng		99
32) Benzoic acid	7.810	122	33645	8.253	ng		98
33) 4-Chloroaniline	8.145	127	63529	9.678	ng		98
34) Hexachlorobutadiene	8.210	225	34431	9.932	ng		98
35) Caprolactam	8.481	113	15331	9.495	ng		98
36) 4-Chloro-3-methylphenol	8.628	107	58441	9.949	ng		99
37) 2-Methylnaphthalene	8.781	142	124517	10.177	ng		99
38) 1-Methylnaphthalene	8.881	142	118722	10.019	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	58800	10.160	ng		98
41) Hexachlorocyclopentadiene	8.934	237	13785	7.161	ng		91
43) 2,4,6-Trichlorophenol	9.063	196	36558	9.773	ng		99

ICAL Form

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

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

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

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

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

ICAL Form

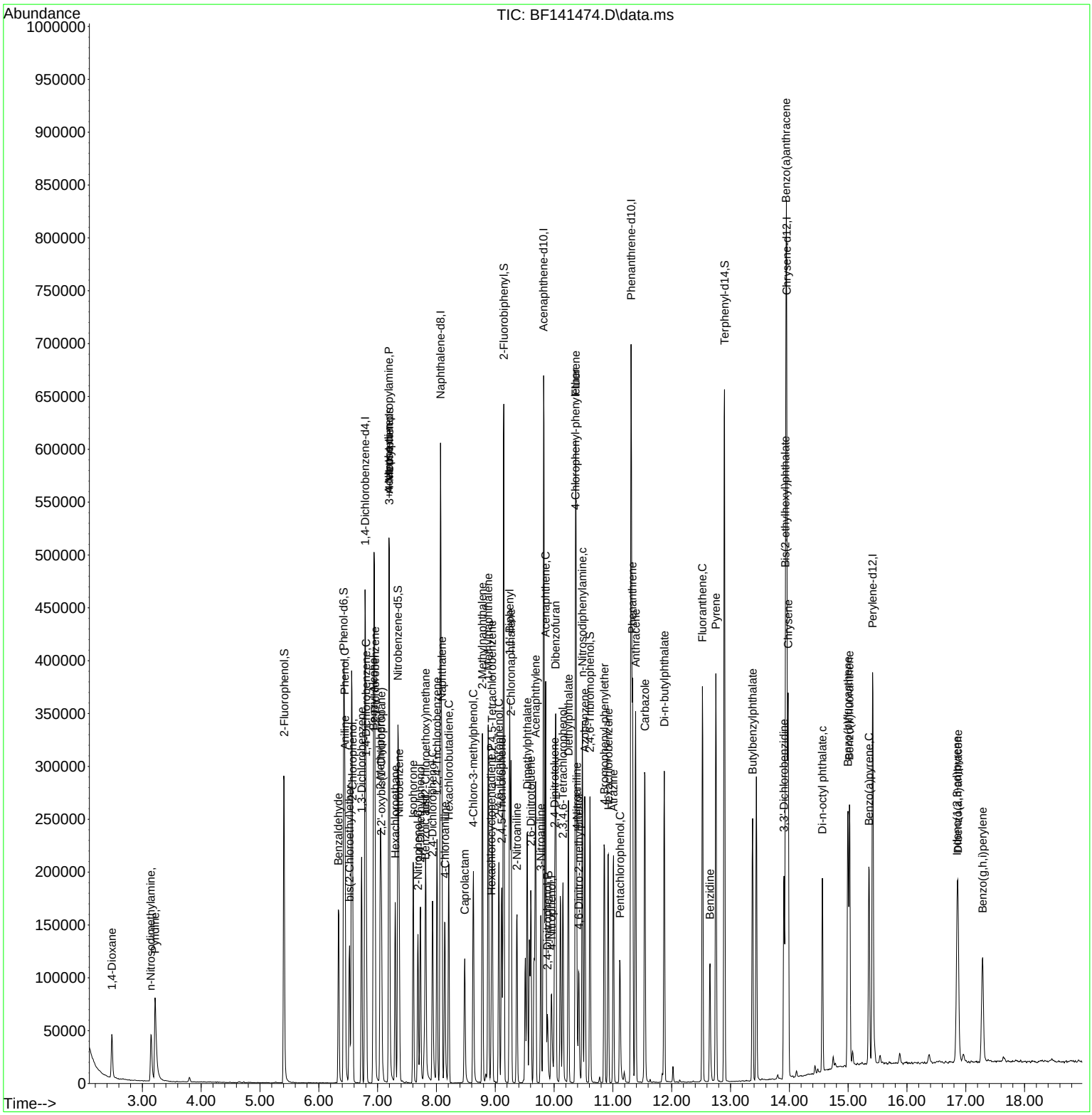
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141474.D
Acq On : 06 Feb 2025 12:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

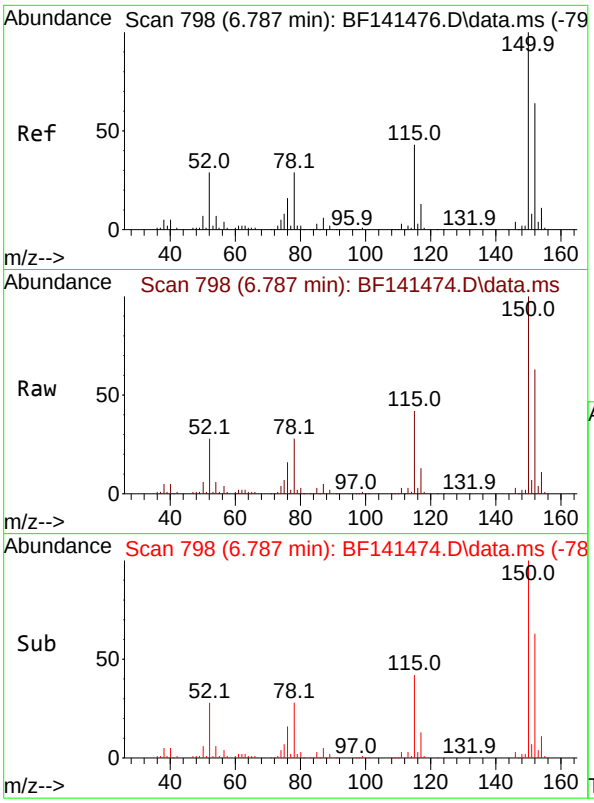
Quant Time: Feb 06 16:00:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

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

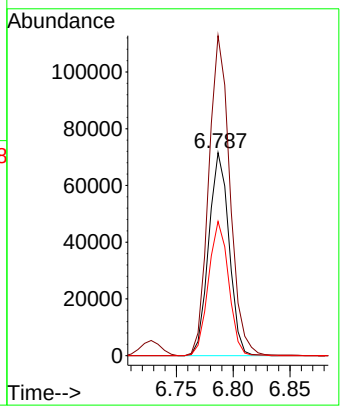




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:152 Resp: 8887

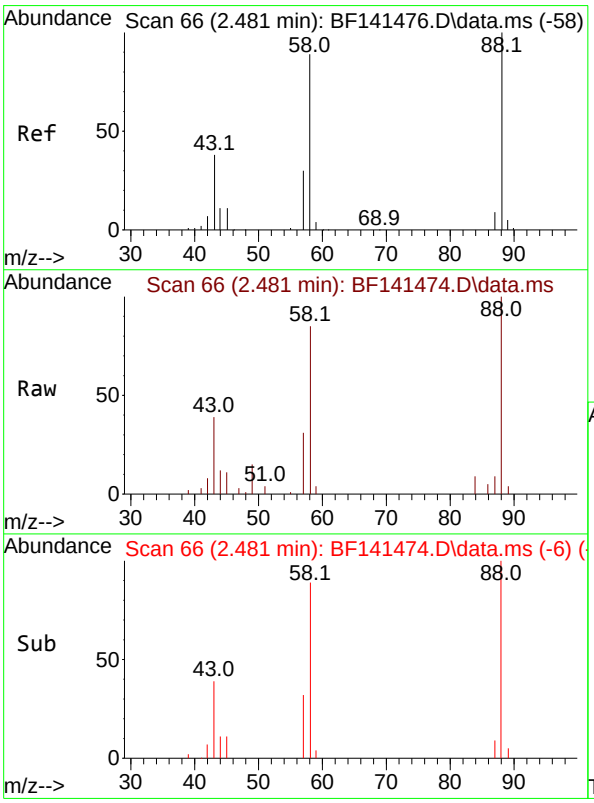
Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	66.1	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

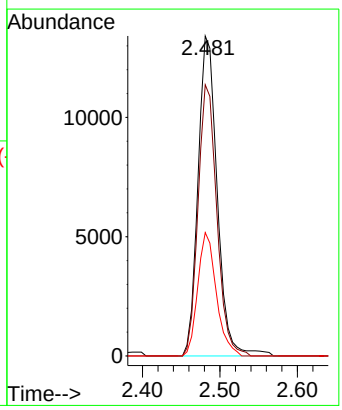
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

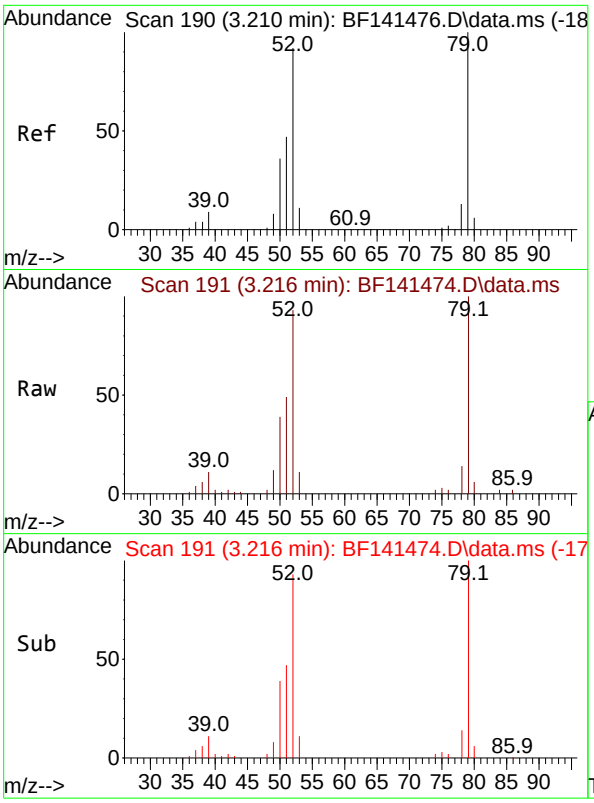


#2
1,4-Dioxane
Concen: 10.108 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 88 Resp: 23063

Ion	Ratio	Lower	Upper
88	100		
58	83.0	71.1	106.7
43	37.3	30.6	46.0

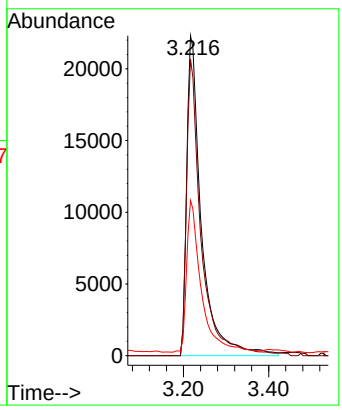




#3
Pyridine
Concen: 9.859 ng
RT: 3.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 79 Resp: 5353

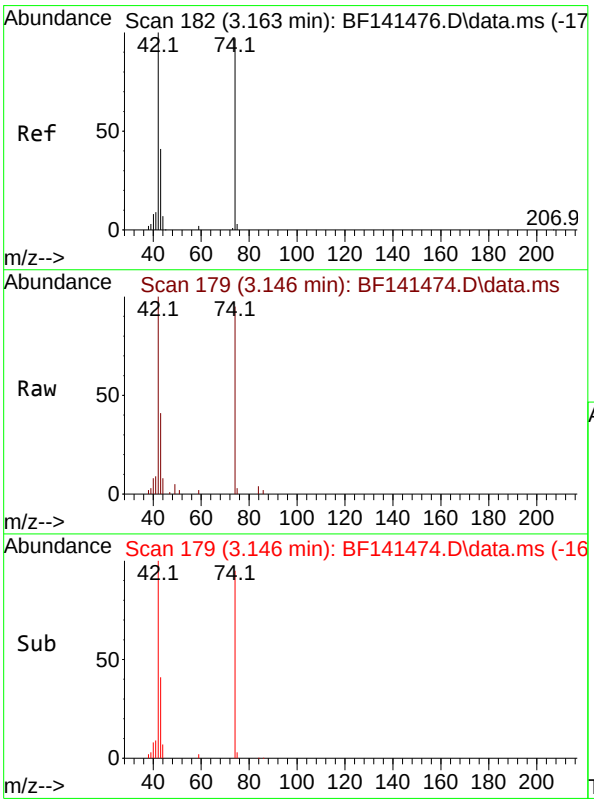
Ion	Ratio	Lower	Upper
79	100		
52	92.7	73.7	110.5
51	48.5	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

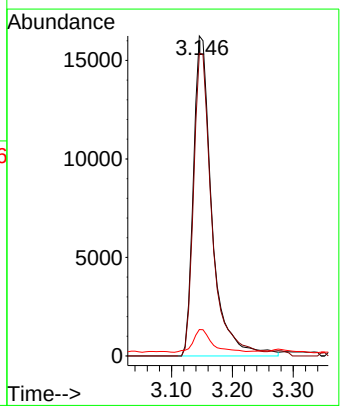
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

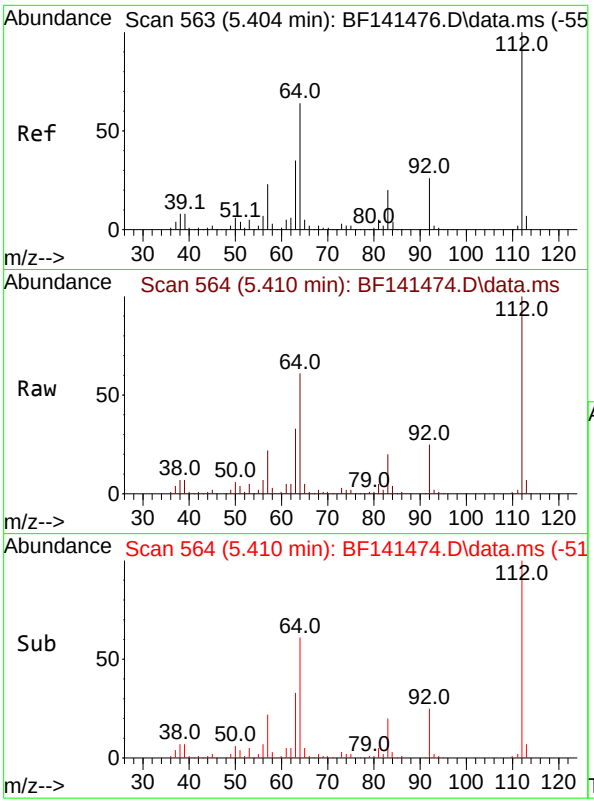


#4
n-Nitrosodimethylamine
Concen: 9.564 ng
RT: 3.146 min Scan# 179
Delta R.T. -0.041 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 42 Resp: 34386

Ion	Ratio	Lower	Upper
42	100		
74	94.6	78.0	117.0
44	8.3	5.4	8.2#

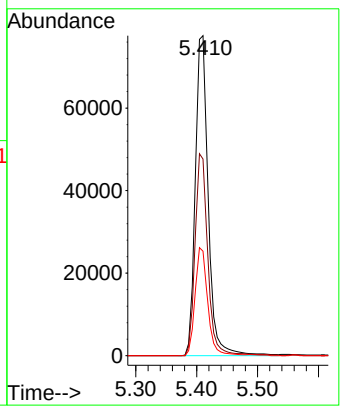




#5
2-Fluorophenol
Concen: 20.227 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:112 Resp: 11466

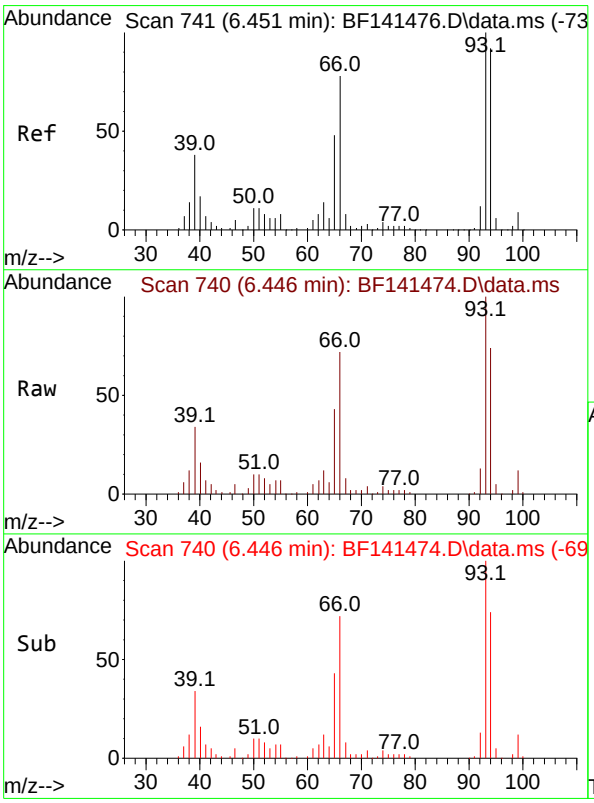
Ion	Ratio	Lower	Upper
112	100		
64	61.5	51.1	76.7
63	32.6	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

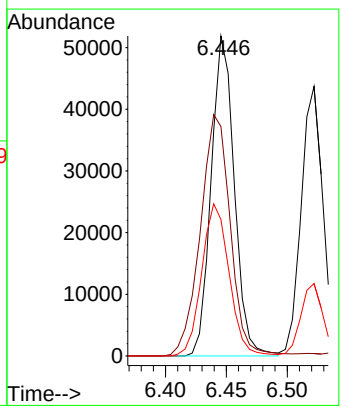
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

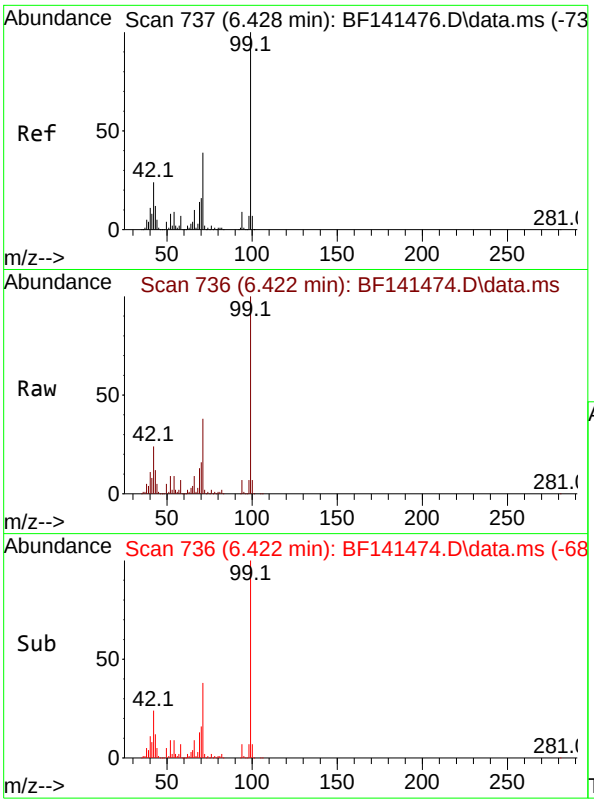


#6
Aniline
Concen: 10.215 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 68661

Ion	Ratio	Lower	Upper
93	100		
66	71.7	62.6	94.0
65	42.7	38.3	57.5

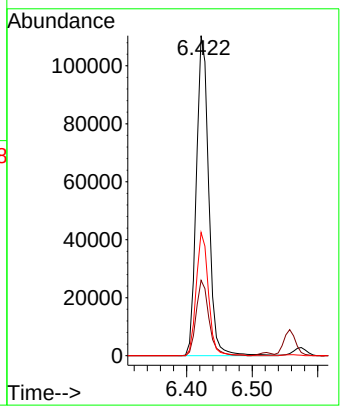




#7
Phenol-d6
Concen: 20.209 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 99 Resp: 14480

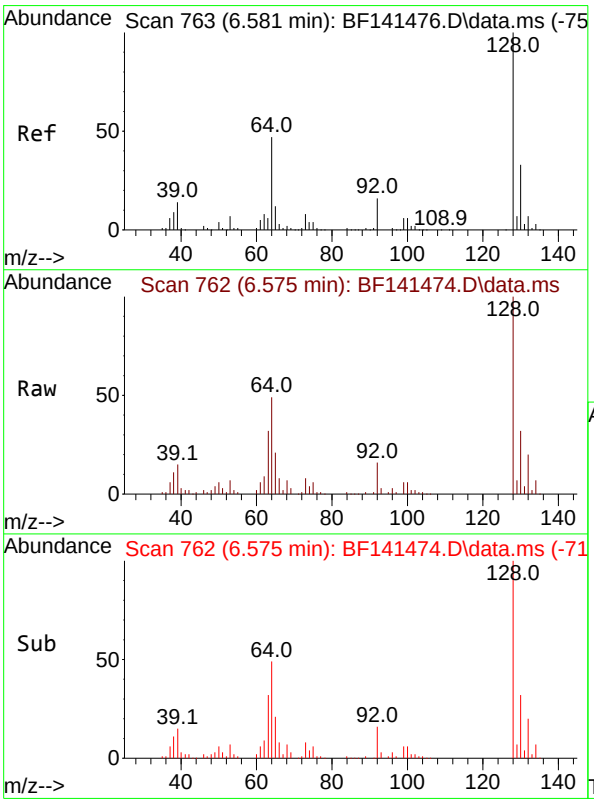
Ion	Ratio	Lower	Upper
99	100		
42	23.6	19.1	28.7
71	38.5	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

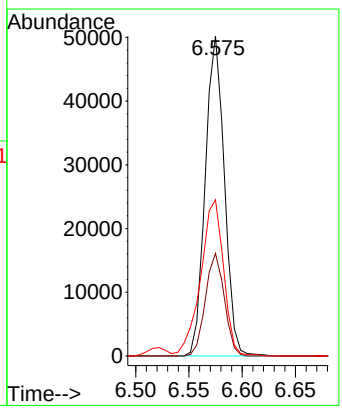
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

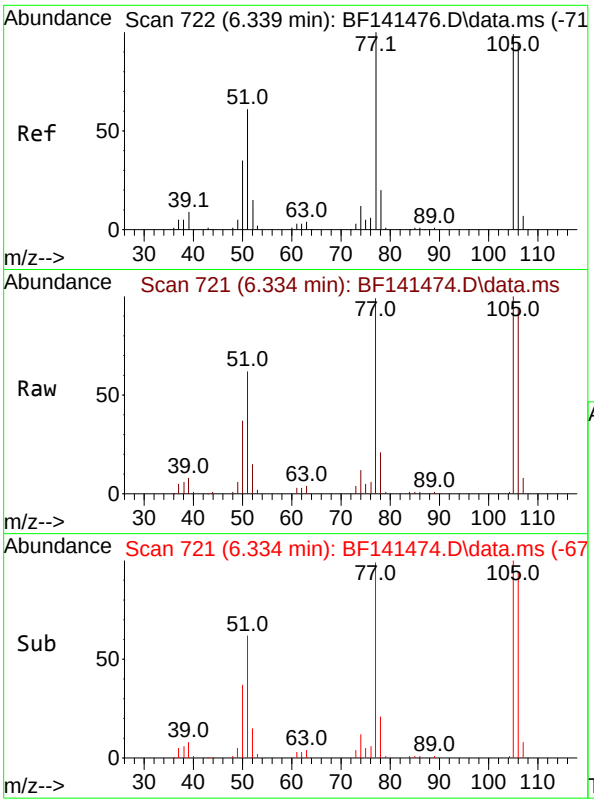


#8
2-Chlorophenol
Concen: 10.232 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:128 Resp: 62679

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.7	52.7
64	48.8	28.3	68.3

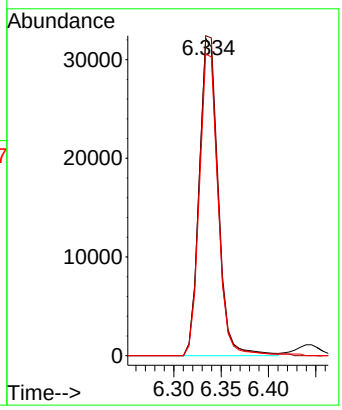




#9
Benzaldehyde
Concen: 11.585 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 4411

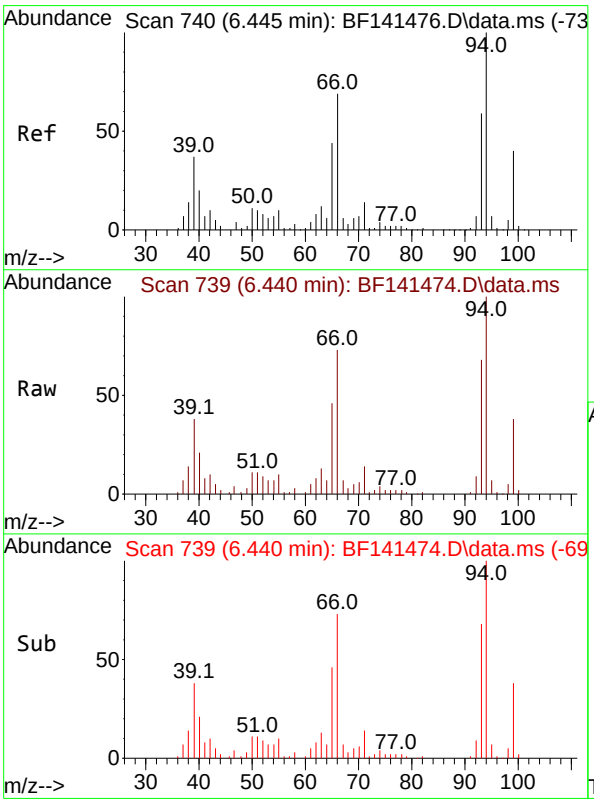
Ion	Ratio	Lower	Upper
77	100		
105	100.9	79.4	119.4
106	95.1	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

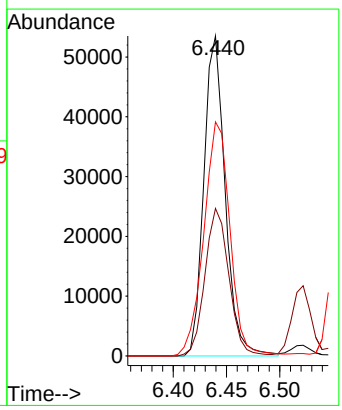
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

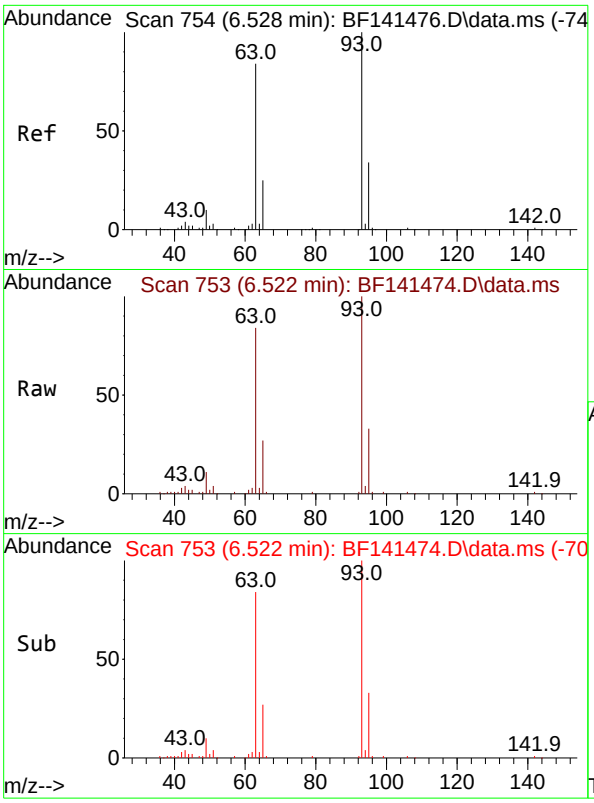


#10
Phenol
Concen: 10.015 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 94 Resp: 74689

Ion	Ratio	Lower	Upper
94	100		
65	46.1	23.7	63.7
66	73.1	49.3	89.3

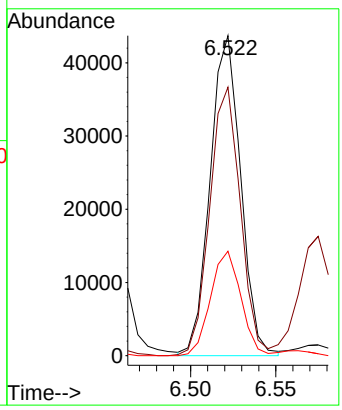




#11
bis(2-Chloroethyl)ether
Concen: 9.752 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 5462

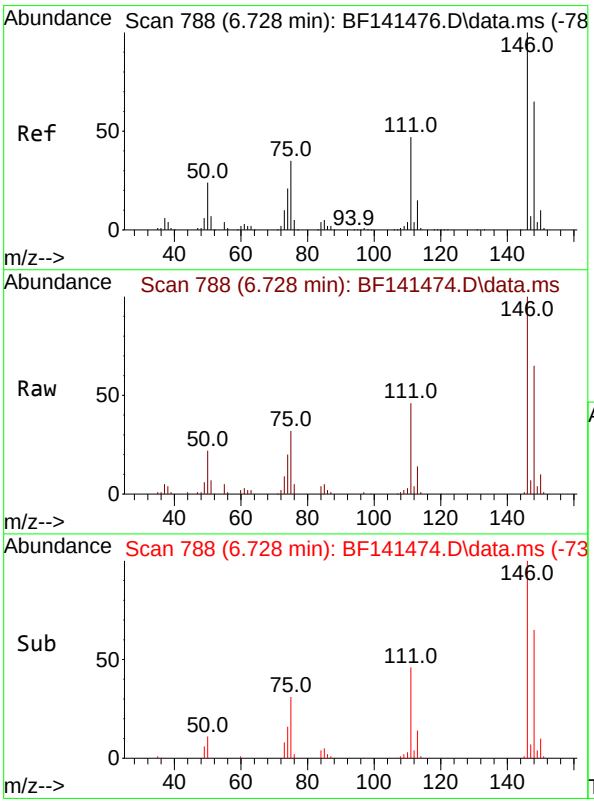
Ion	Ratio	Lower	Upper
93	100		
63	83.9	62.0	102.0
95	32.6	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

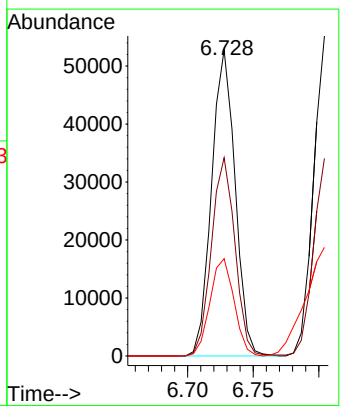
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

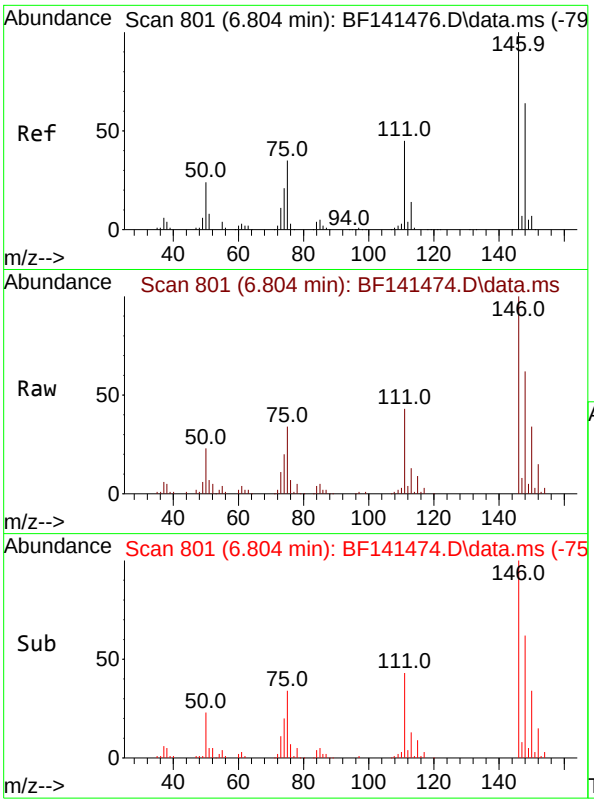


#12
1,3-Dichlorobenzene
Concen: 10.182 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 65850

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
75	31.8	28.2	42.2

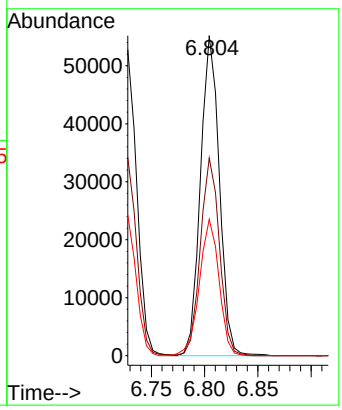




#13
1,4-Dichlorobenzene
Concen: 10.341 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 6833

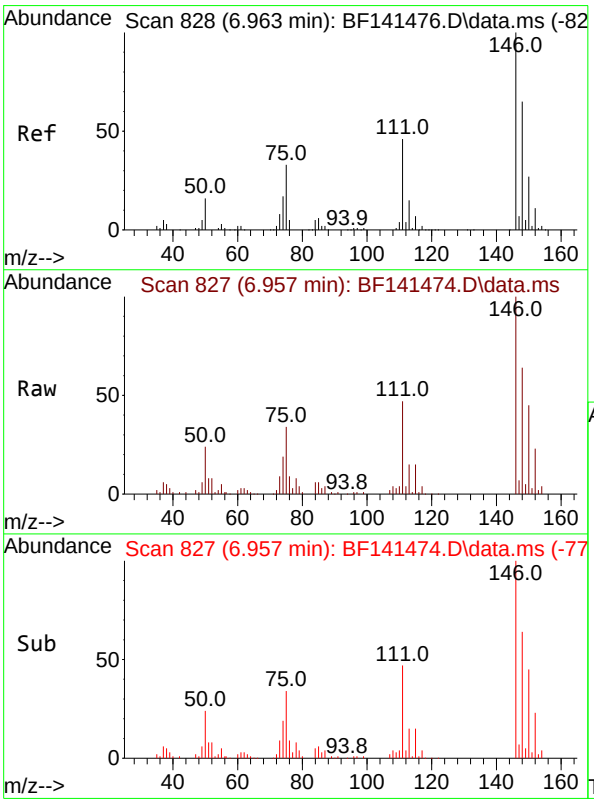
Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.9	76.3
111	42.6	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

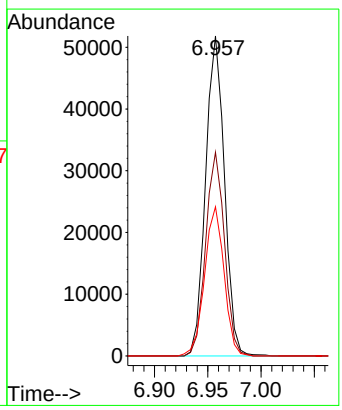
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

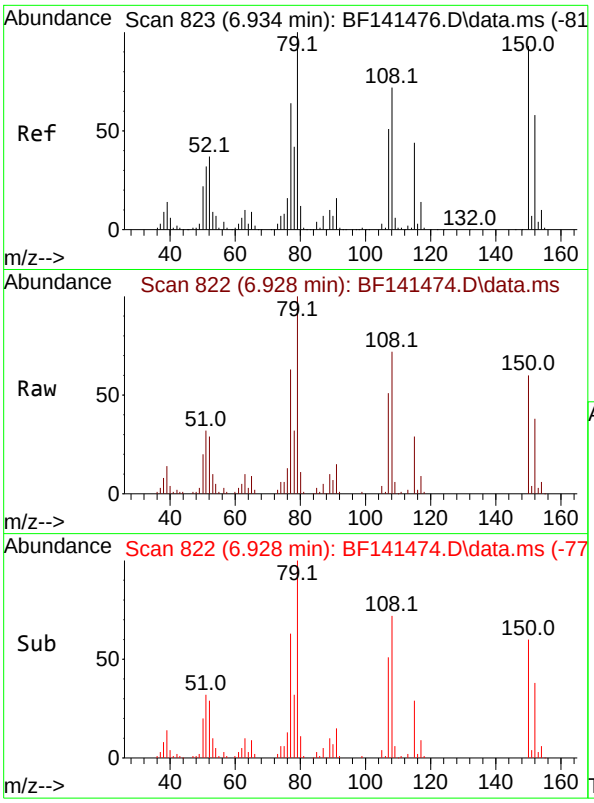


#14
1,2-Dichlorobenzene
Concen: 10.428 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 63948

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.6
111	46.6	37.0	55.4

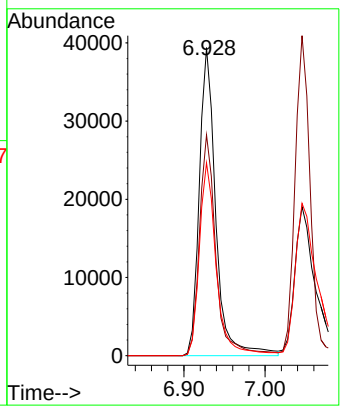




#15
Benzyl Alcohol
Concen: 10.115 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 79 Resp: 5558

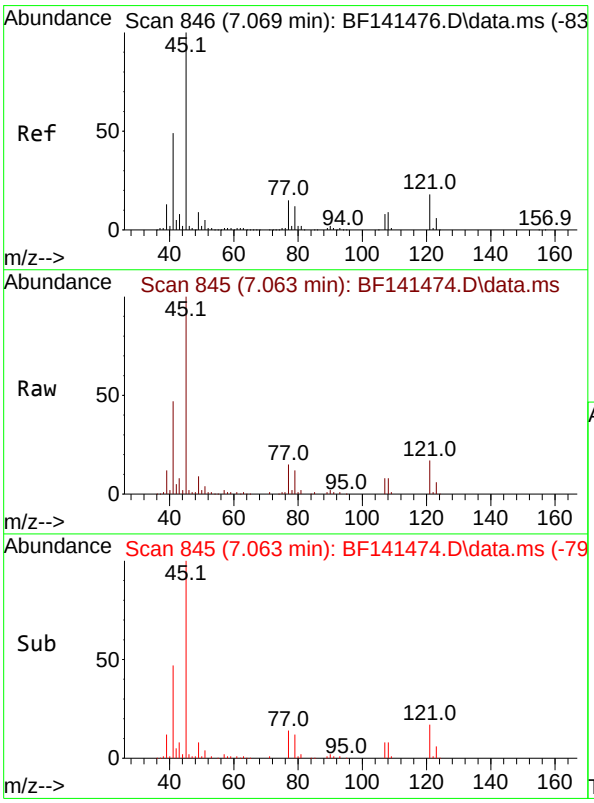
Ion	Ratio	Lower	Upper
79	100		
108	71.7	57.4	86.2
77	62.6	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

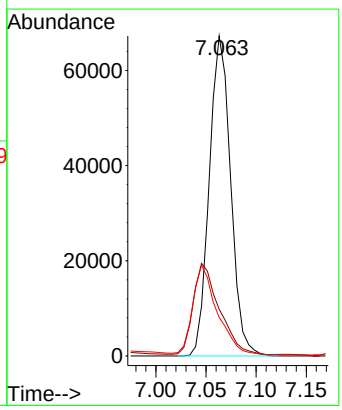
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

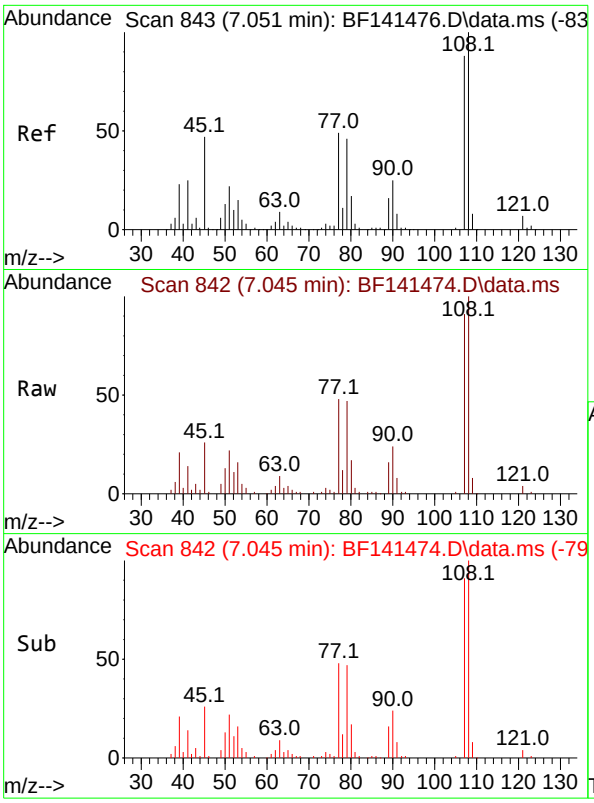


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.406 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 45 Resp: 99782

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.8
79	12.1	0.0	32.7

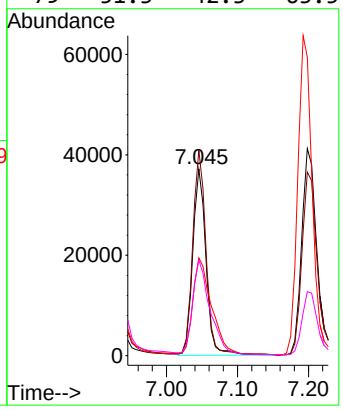




#17
2-Methylphenol
Concen: 10.092 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 4837

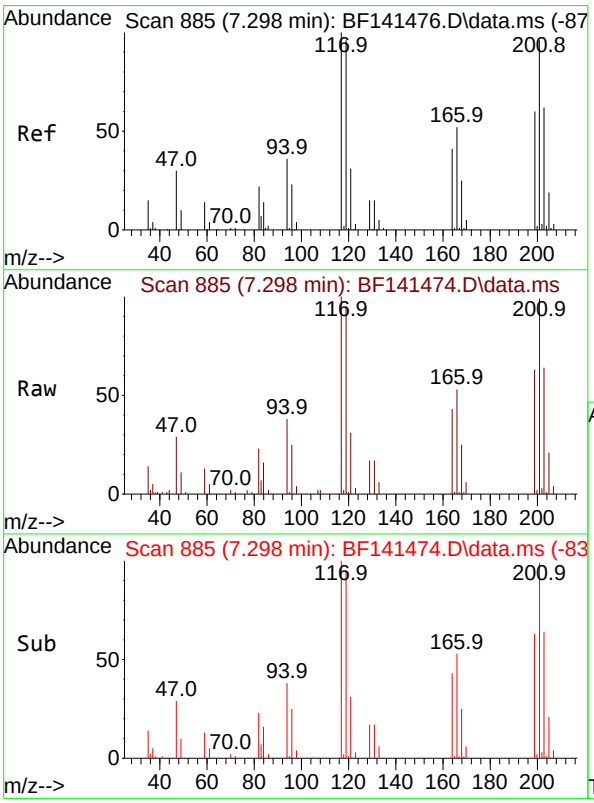
Ion	Ratio	Lower	Upper
107	100		
108	110.1	90.6	136.0
77	52.4	44.4	66.6
79	51.3	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

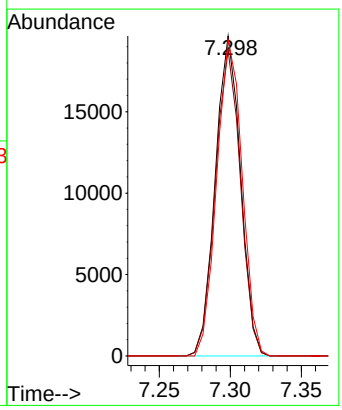
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

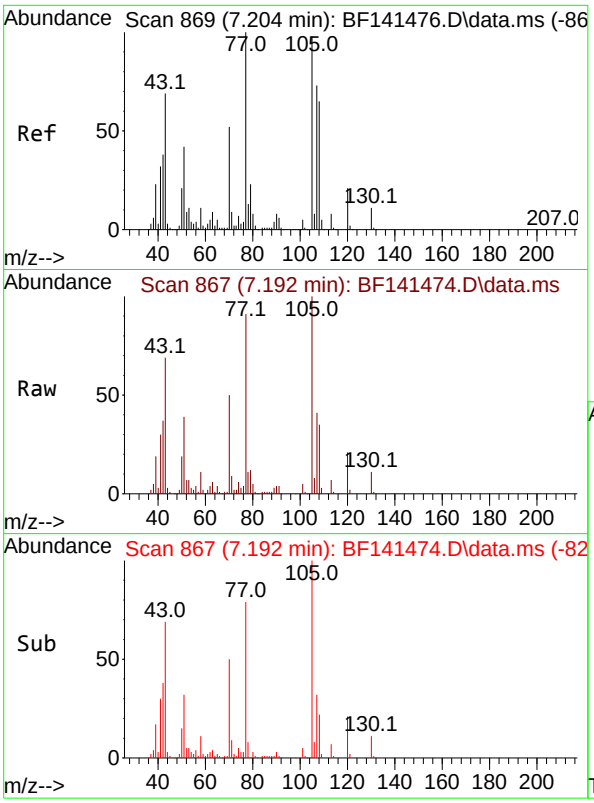


#18
Hexachloroethane
Concen: 9.910 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:117 Resp: 24233

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.5	114.7
201	98.8	76.7	115.1

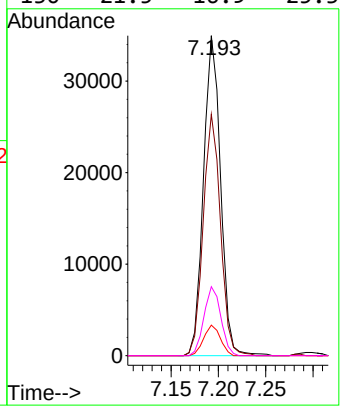




#19
n-Nitroso-di-n-propylamine
Concen: 10.210 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 70 Resp: 4376

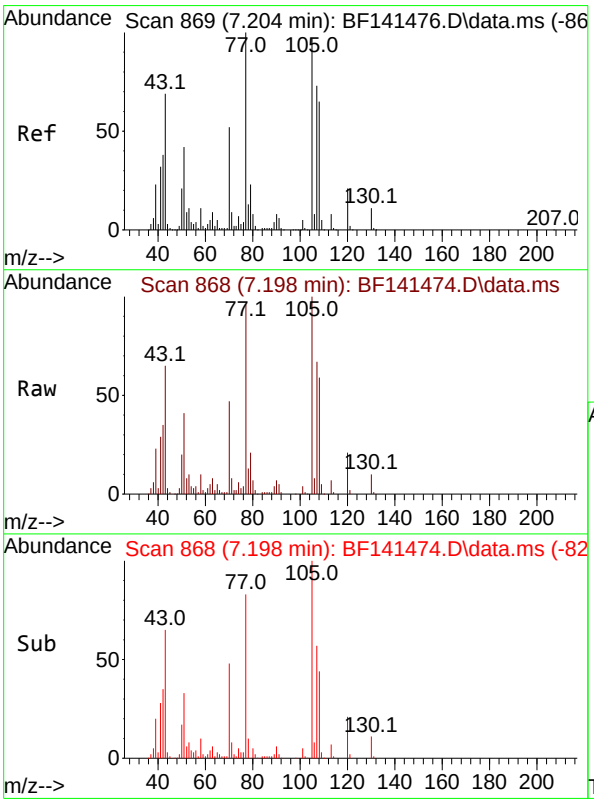
Ion	Ratio	Lower	Upper
70	100		
42	75.4	57.4	86.2
101	9.5	8.0	12.0
130	21.5	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

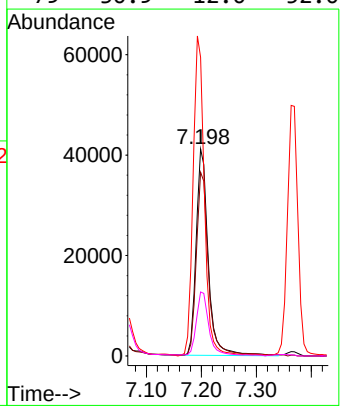
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

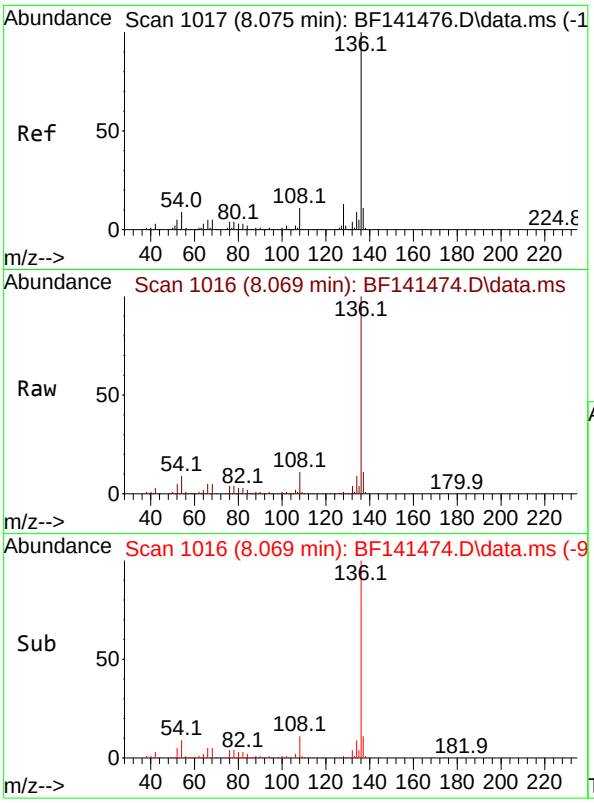


#20
3+4-Methylphenols
Concen: 10.332 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 62949

Ion	Ratio	Lower	Upper
107	100		
108	88.7	68.5	108.5
77	144.2	116.5	156.5
79	30.9	12.0	52.0

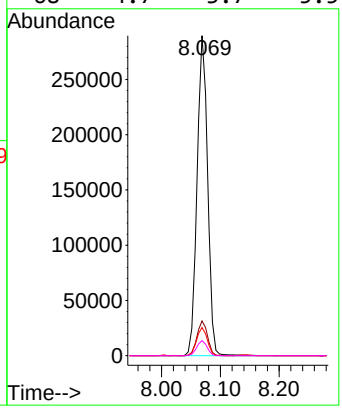




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:136 Resp: 36119

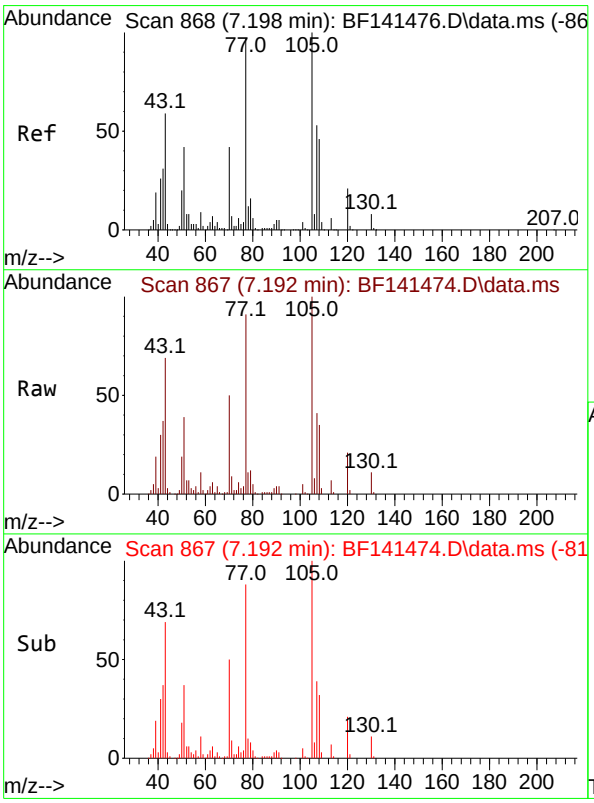
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.8	7.2	10.8
68	4.7	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

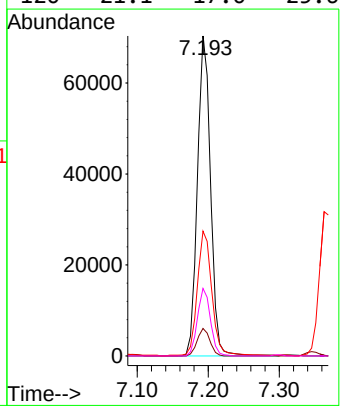
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

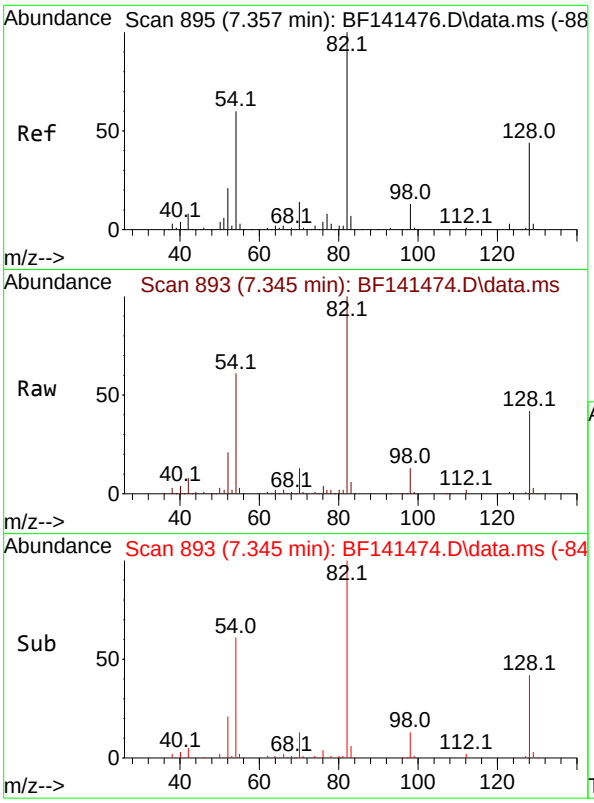


#22
Acetophenone
Concen: 10.085 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:105 Resp: 90614

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

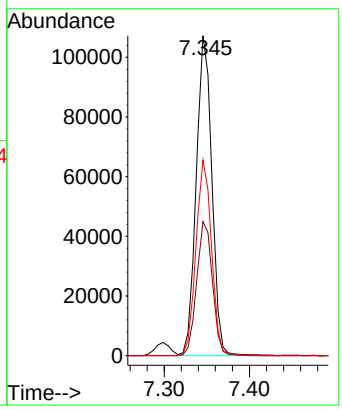




#23
Nitrobenzene-d5
Concen: 19.783 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 82 Resp: 13699

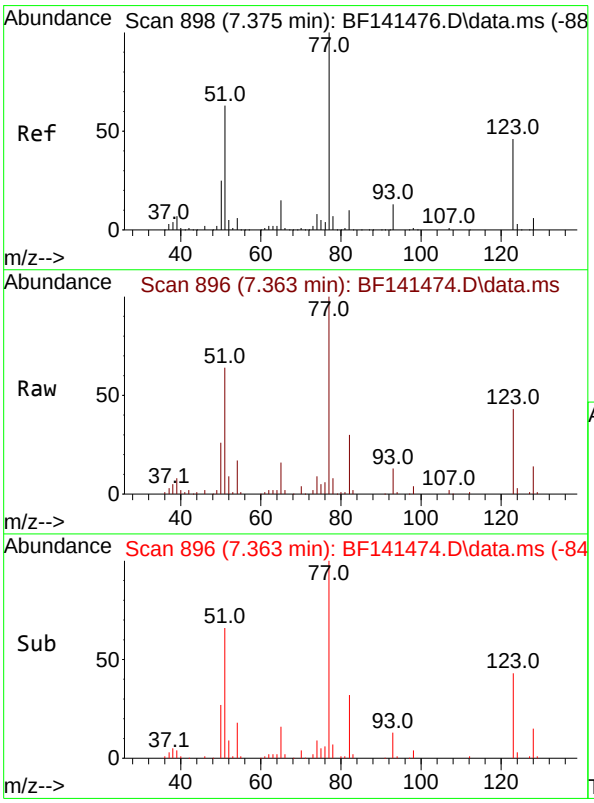
Ion	Ratio	Lower	Upper
82	100		
128	41.9	34.8	52.2
54	61.2	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

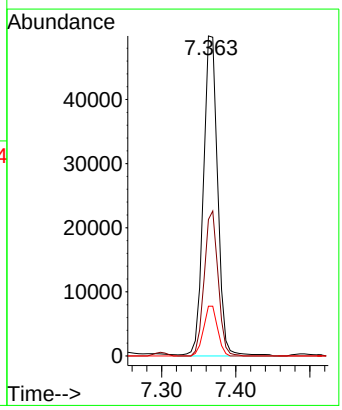
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

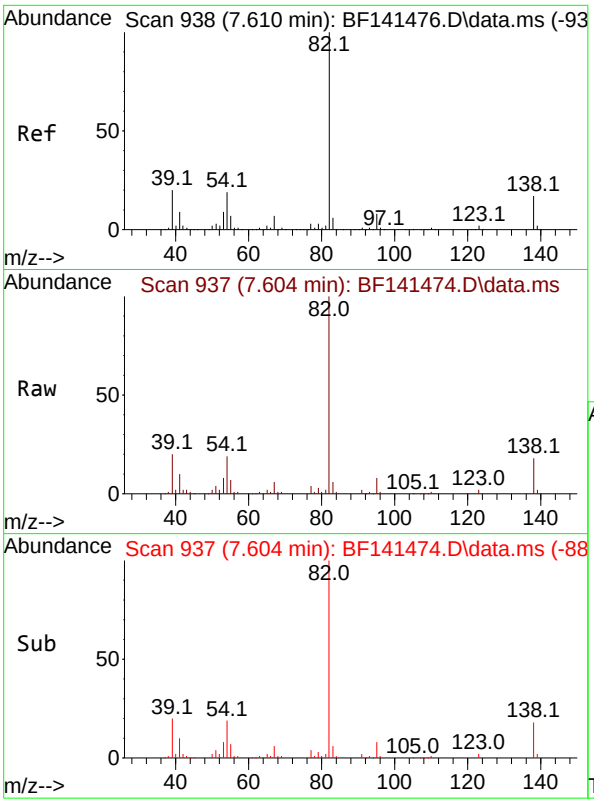


#24
Nitrobenzene
Concen: 9.927 ng
RT: 7.363 min Scan# 896
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 67032

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.9	55.3
65	15.5	11.9	17.9

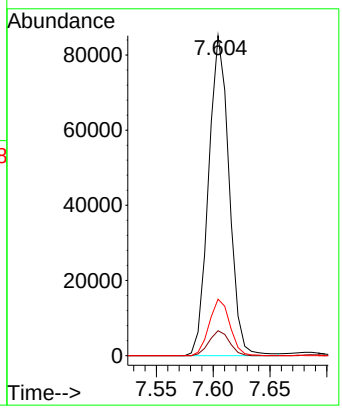




#25
Isophorone
Concen: 9.712 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 82 Resp: 10724

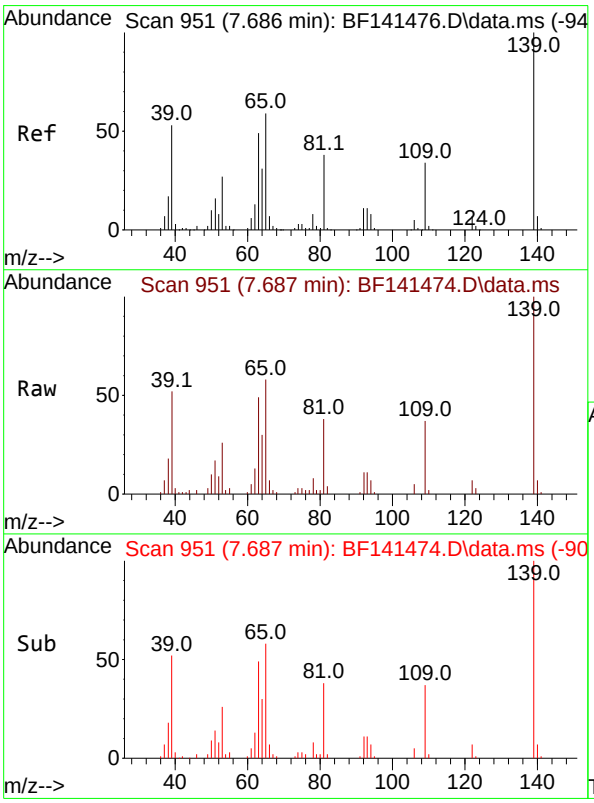
Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.7	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

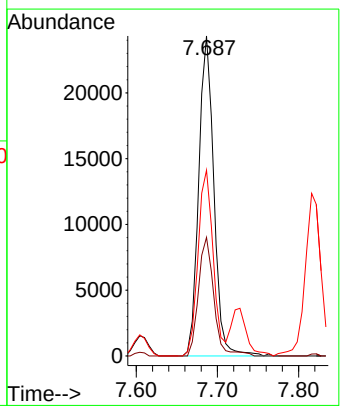
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

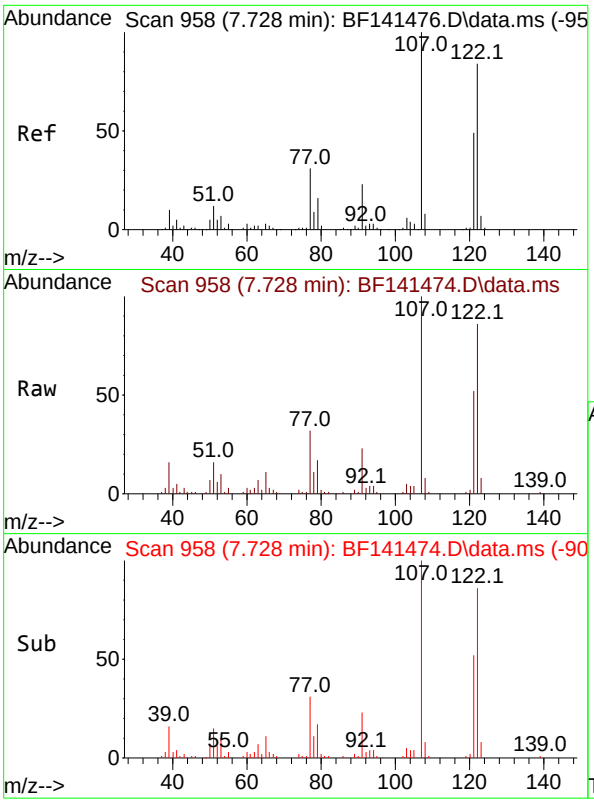


#26
2-Nitrophenol
Concen: 9.403 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 31590

Ion	Ratio	Lower	Upper
139	100		
109	37.1	27.0	40.6
65	58.1	47.1	70.7

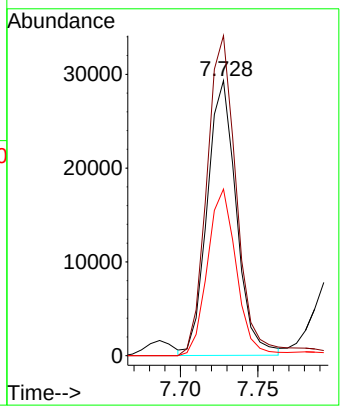




#27
2,4-Dimethylphenol
Concen: 9.759 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:122 Resp: 3830

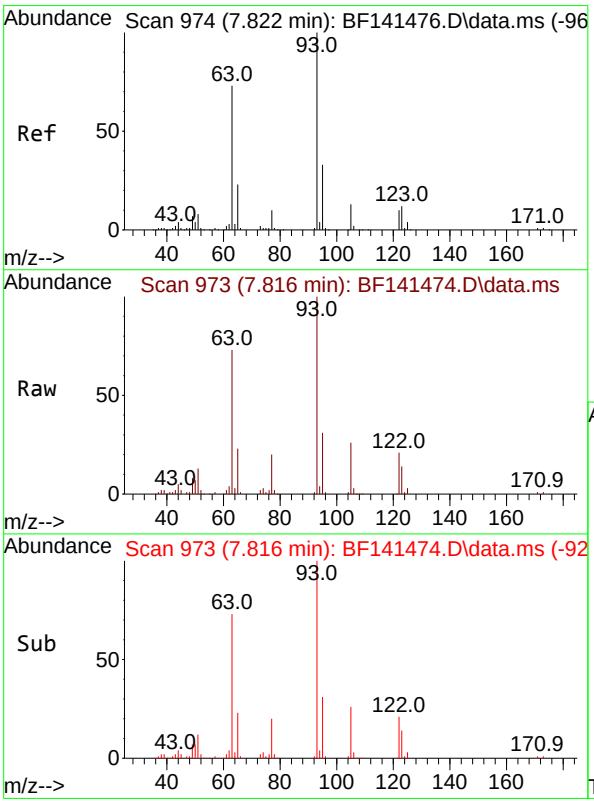
Ion	Ratio	Lower	Upper
122	100		
107	116.3	94.3	141.5
121	60.5	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

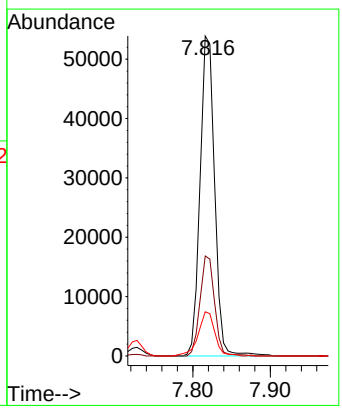
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

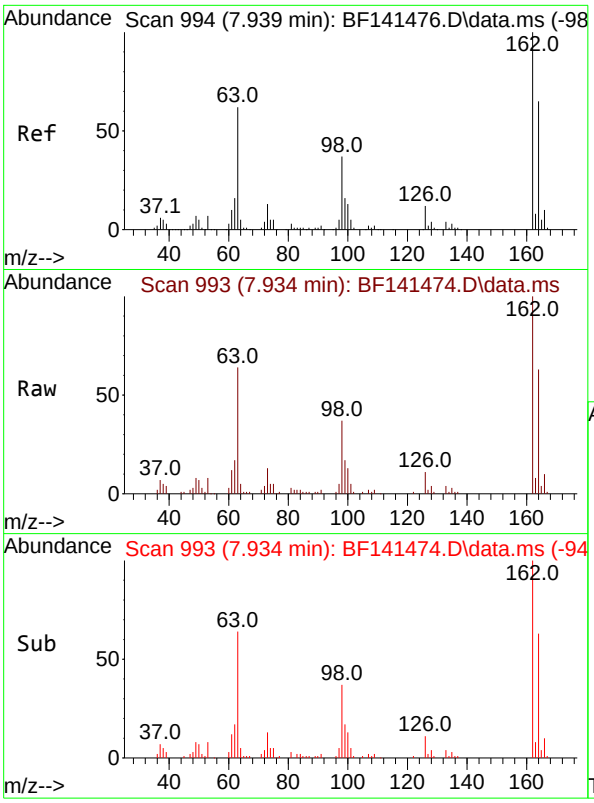


#28
bis(2-Chloroethoxy)methane
Concen: 9.958 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 70458

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

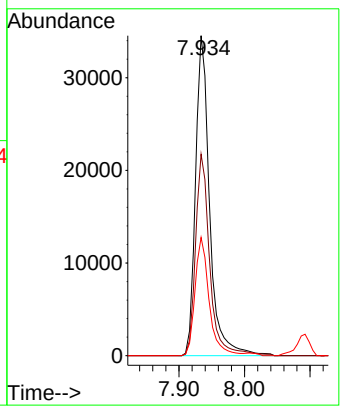




#29
2,4-Dichlorophenol
Concen: 9.784 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:162 Resp: 5188

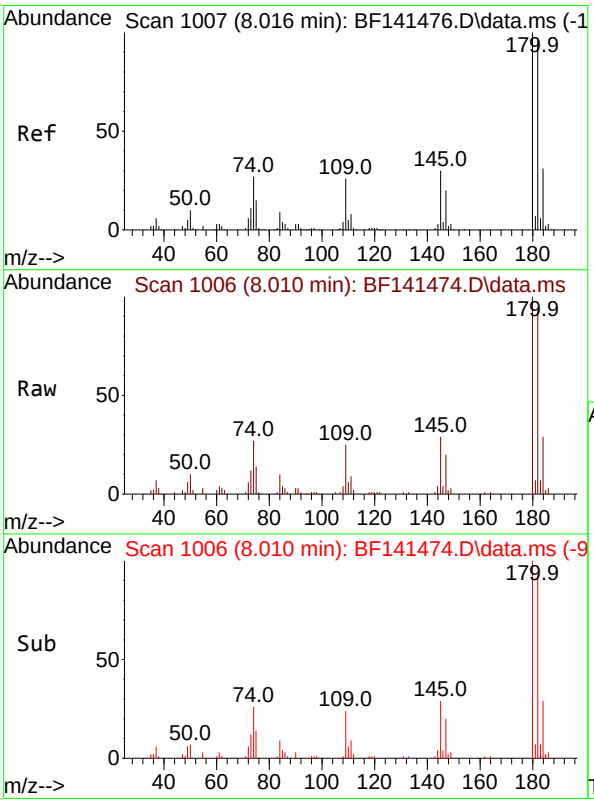
Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.6	84.6
98	36.9	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

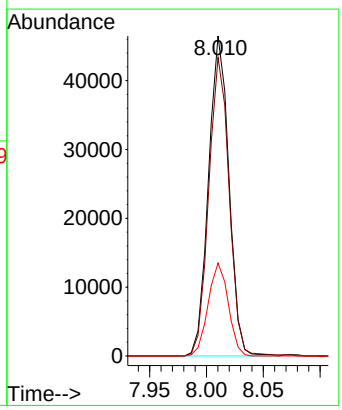
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

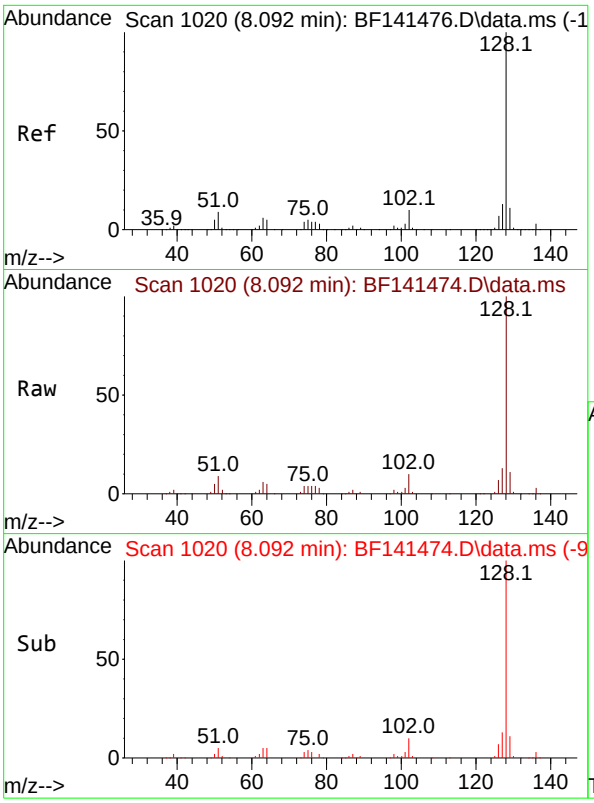


#30
1,2,4-Trichlorobenzene
Concen: 10.033 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:180 Resp: 57937

Ion	Ratio	Lower	Upper
180	100		
182	93.3	76.8	115.2
145	29.1	24.2	36.4





#31
Naphthalene
Concen: 10.002 ng
RT: 8.092 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

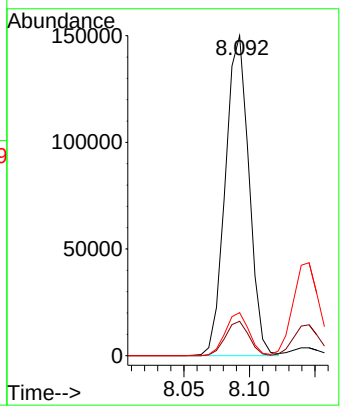
Tgt Ion:128 Resp: 18804(

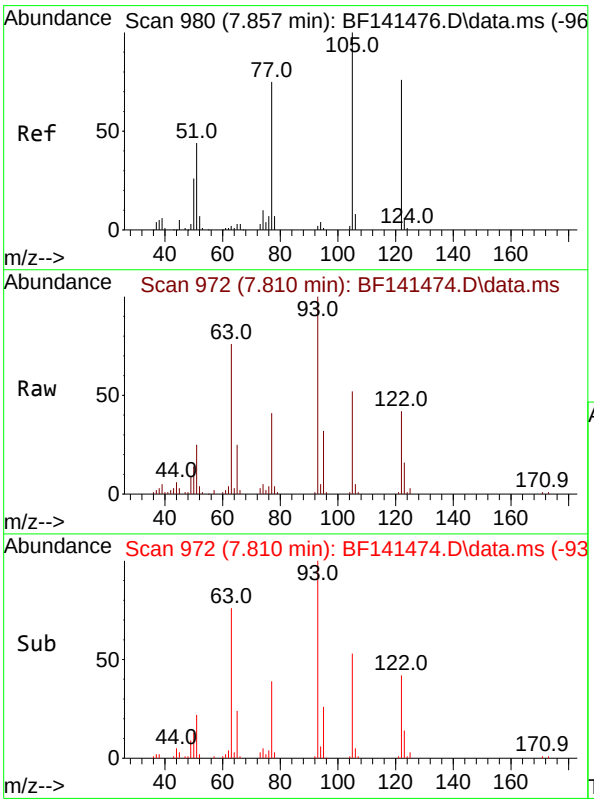
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	13.5	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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

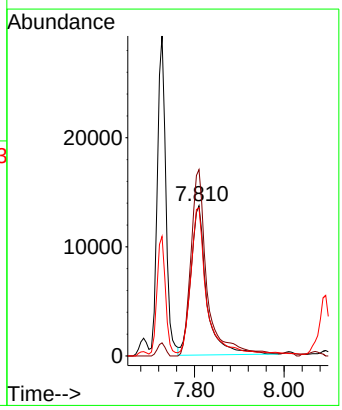


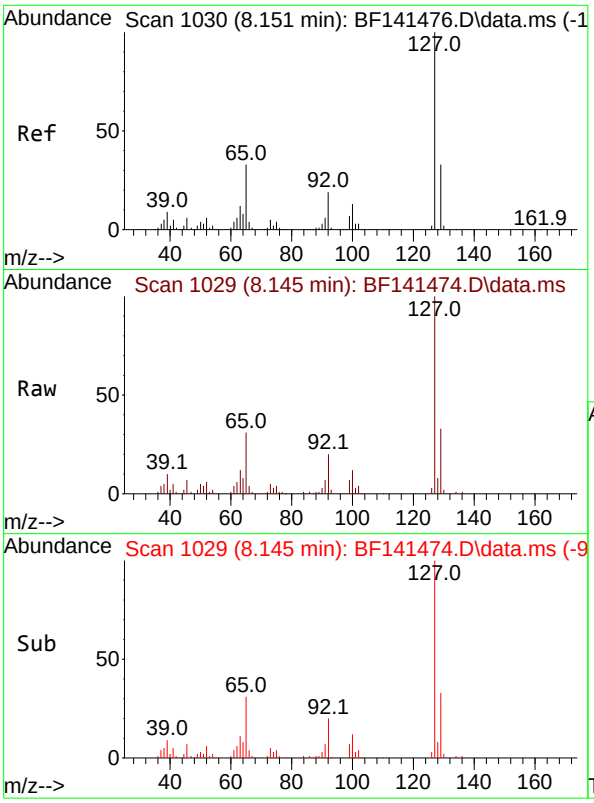


#32
Benzoic acid
Concen: 8.253 ng
RT: 7.810 min Scan# 972
Delta R.T. -0.082 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:122 Resp: 33645

Ion	Ratio	Lower	Upper
122	100		
105	124.1	106.5	146.5
77	98.6	76.3	116.3

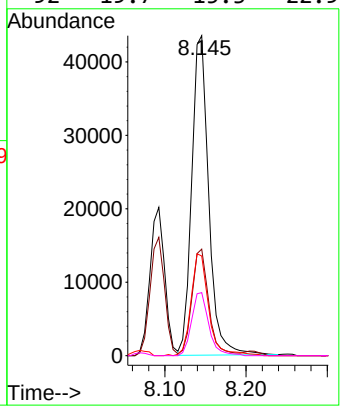




#33
4-Chloroaniline
Concen: 9.678 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:127 Resp: 6352

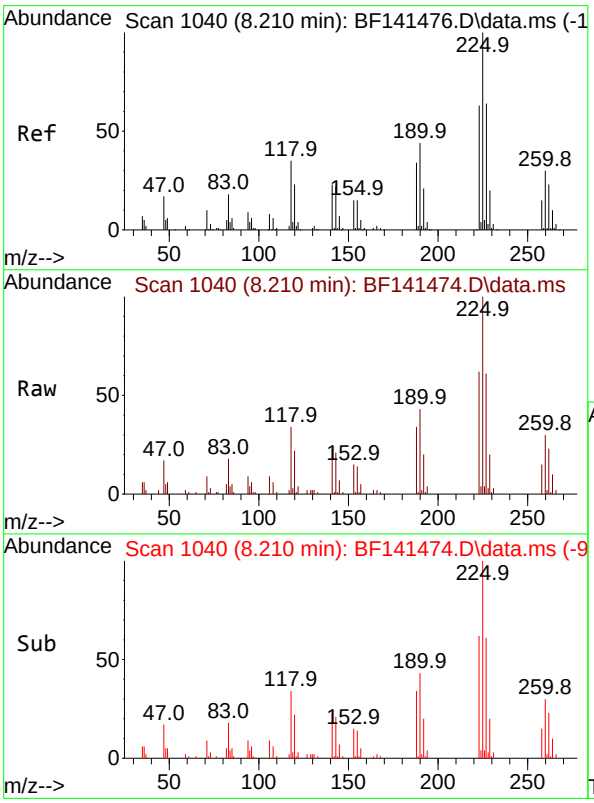
Ion	Ratio	Lower	Upper
127	100		
129	33.3	26.5	39.7
65	31.2	26.4	39.6
92	19.7	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

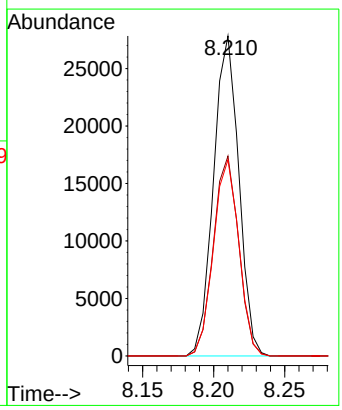
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

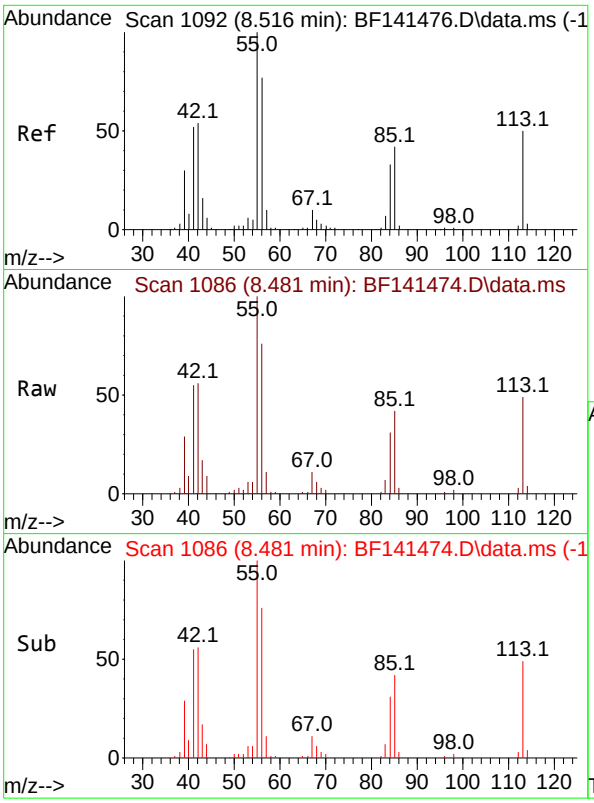


#34
Hexachlorobutadiene
Concen: 9.932 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:225 Resp: 34431

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1
227	61.3	51.0	76.6

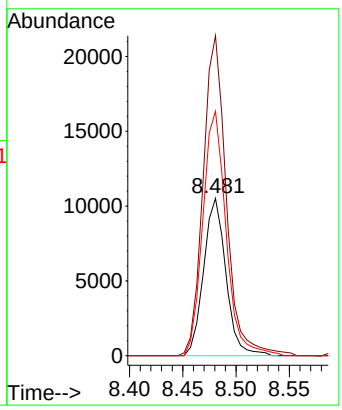




#35
Caprolactam
Concen: 9.495 ng
RT: 8.481 min Scan# 1
Delta R.T. -0.065 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:113 Resp: 1533

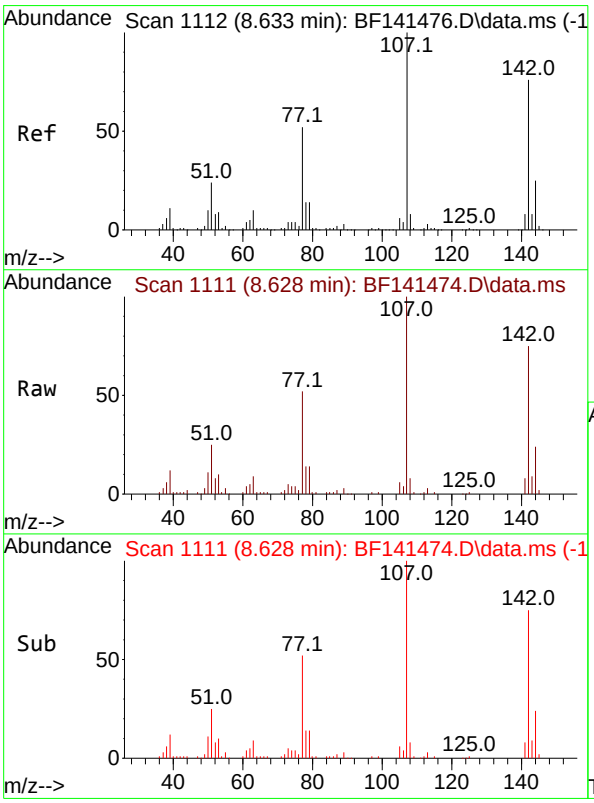
Ion	Ratio	Lower	Upper
113	100		
55	203.4	180.8	220.8
56	155.4	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

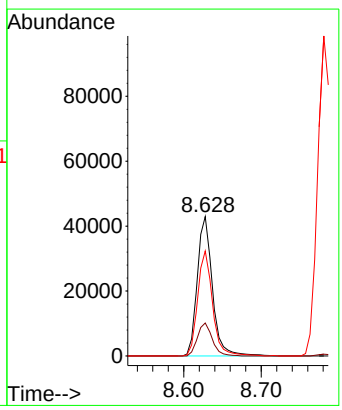
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

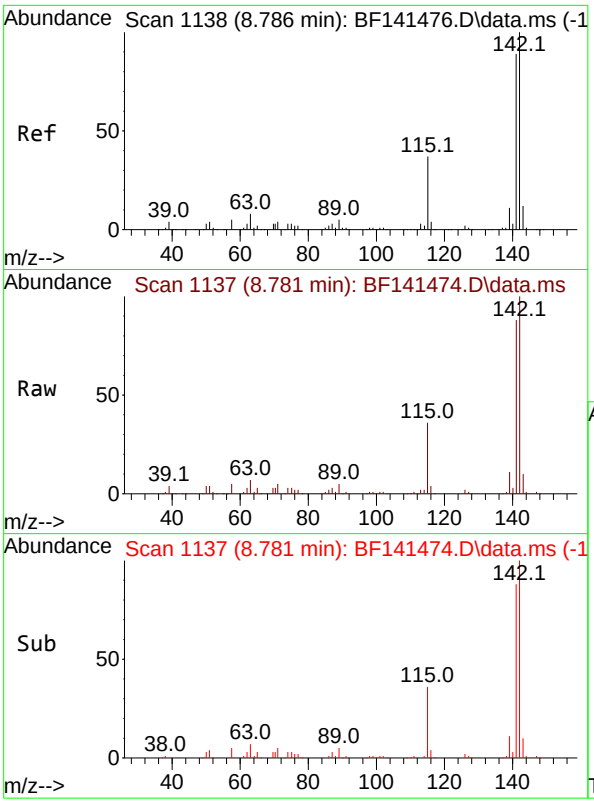


#36
4-Chloro-3-methylphenol
Concen: 9.949 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 58441

Ion	Ratio	Lower	Upper
107	100		
144	23.7	19.7	29.5
142	75.3	60.8	91.2

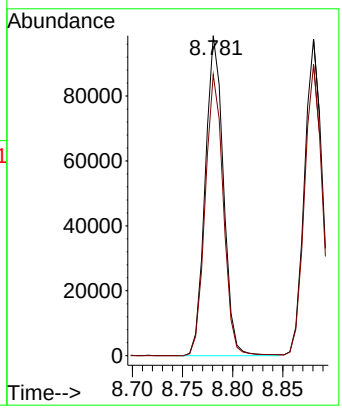




#37
2-Methylnaphthalene
Concen: 10.177 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:142 Resp: 12451

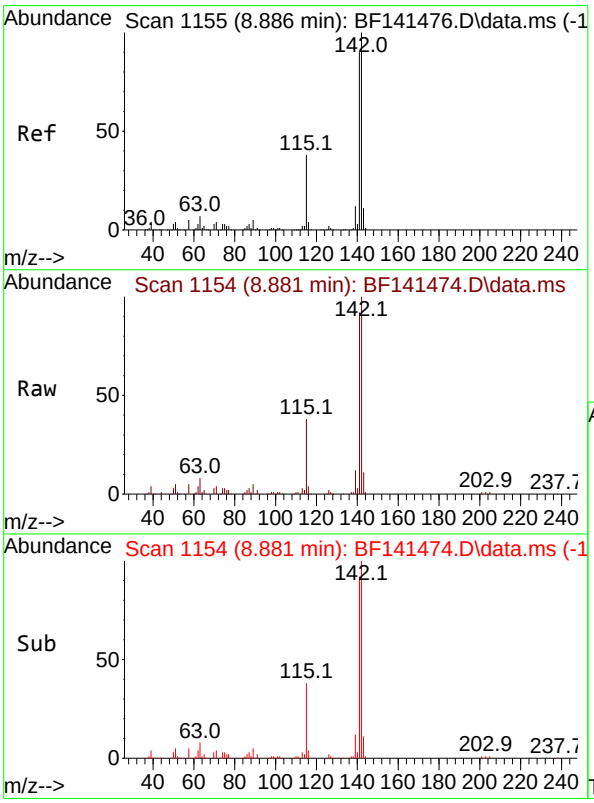
Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

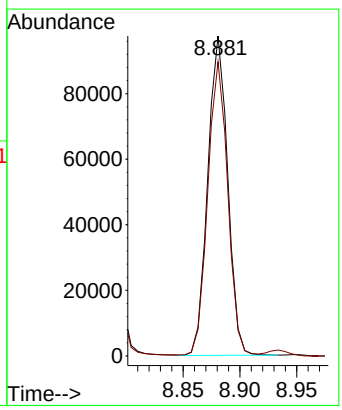
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

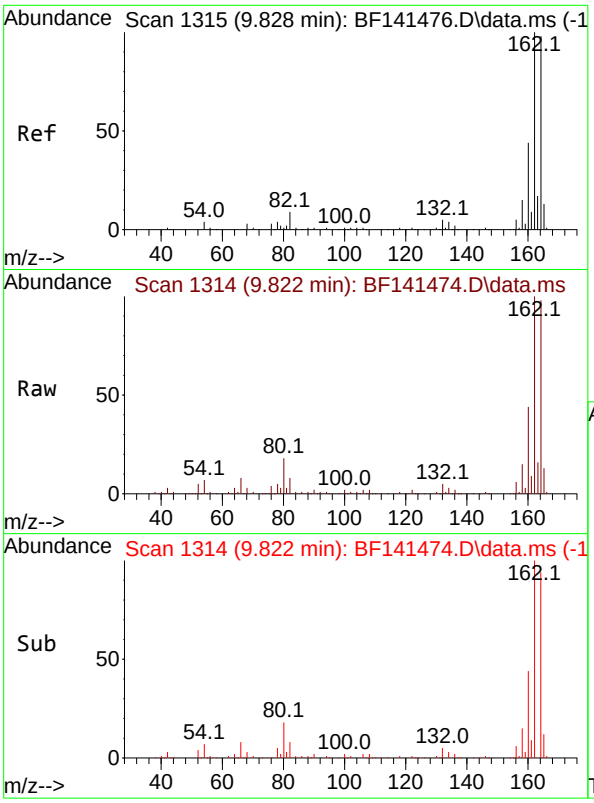


#38
1-Methylnaphthalene
Concen: 10.019 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:142 Resp: 118722

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.1	108.1

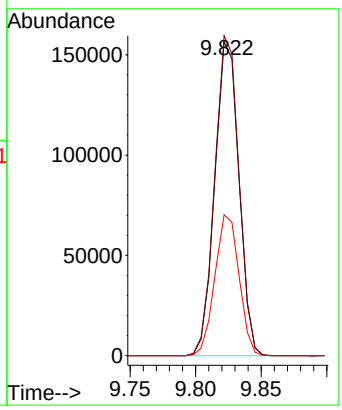




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:164 Resp: 20004

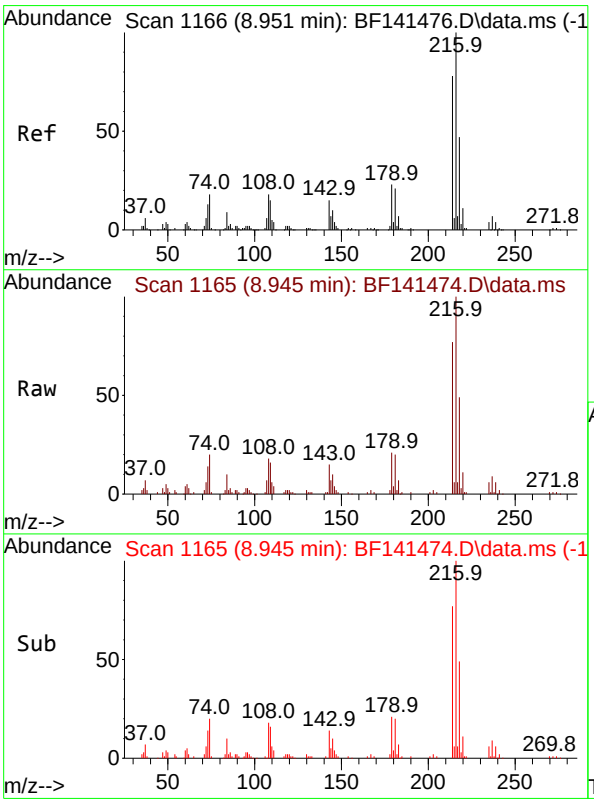
Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.3	121.9
160	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

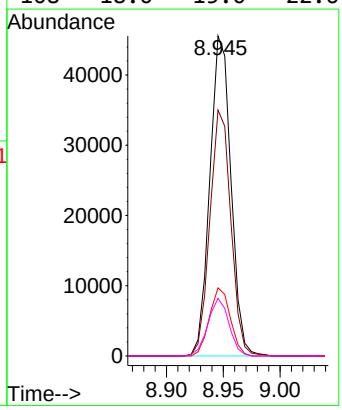
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

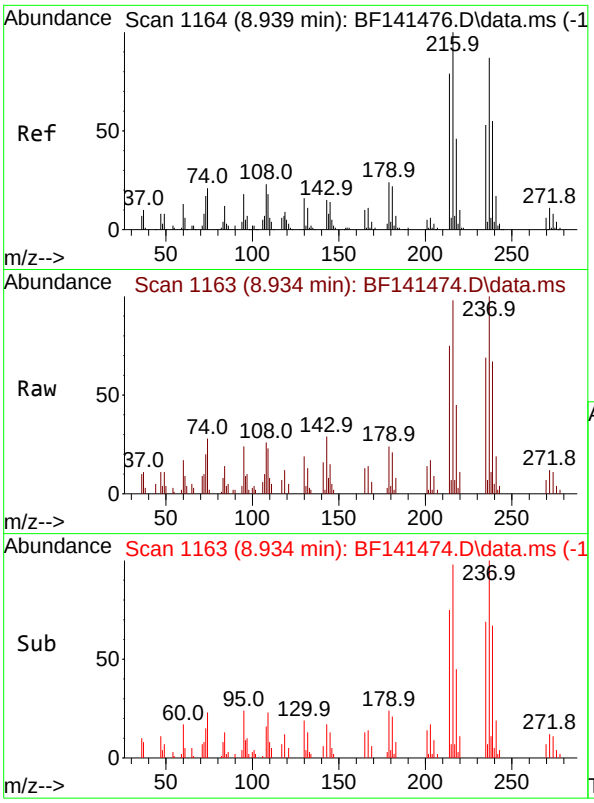


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.160 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:216 Resp: 58800

Ion	Ratio	Lower	Upper
216	100		
214	76.5	62.3	93.5
179	21.1	18.0	27.0
108	18.0	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 7.161 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

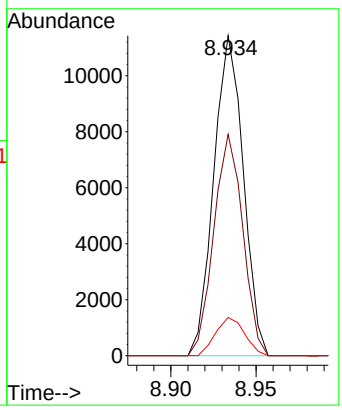
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

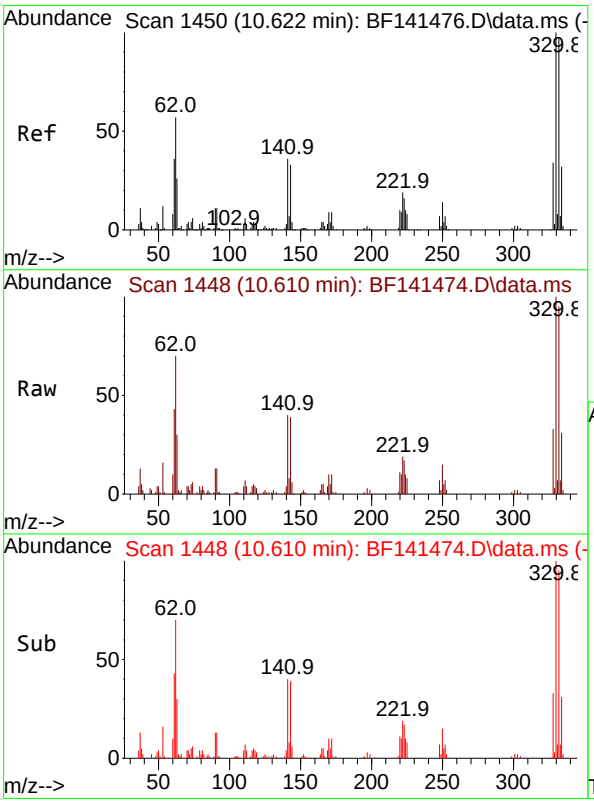
Tgt Ion:237 Resp: 1378

Ion	Ratio	Lower	Upper
237	100		
235	69.2	41.4	81.4
272	11.9	0.0	32.4

Manual Integrations
APPROVED

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

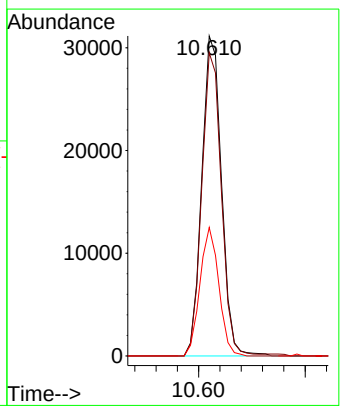


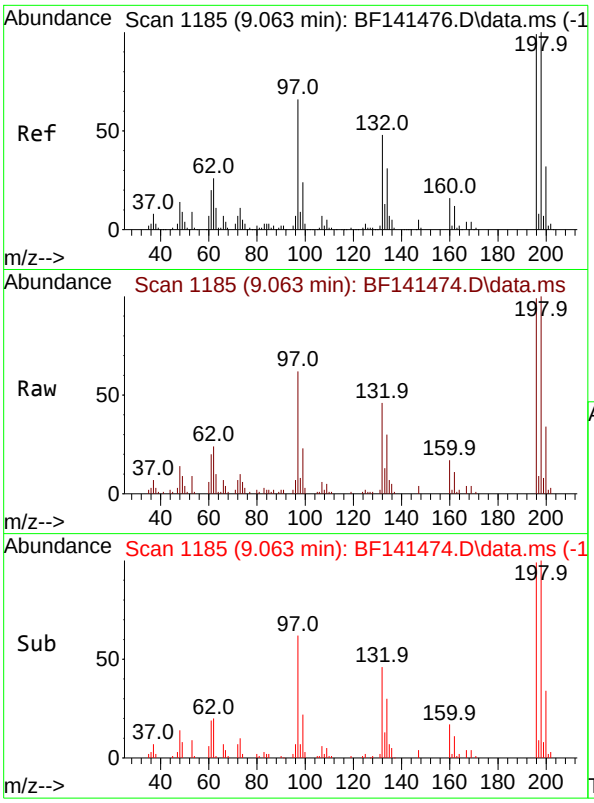


#42
2,4,6-Tribromophenol
Concen: 19.941 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:330 Resp: 40073

Ion	Ratio	Lower	Upper
330	100		
332	94.1	78.5	117.7
141	38.6	31.0	46.4

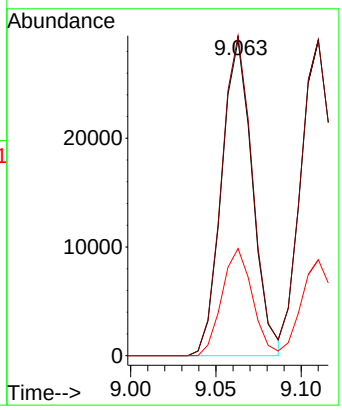




#43
2,4,6-Trichlorophenol
Concen: 9.773 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:196 Resp: 3655

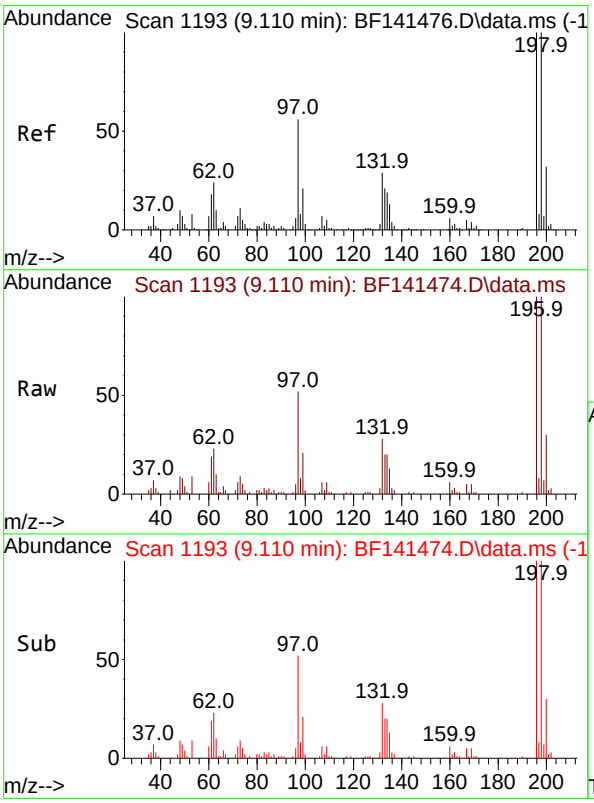
Ion	Ratio	Lower	Upper
196	100		
198	101.5	80.6	121.0
200	34.0	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

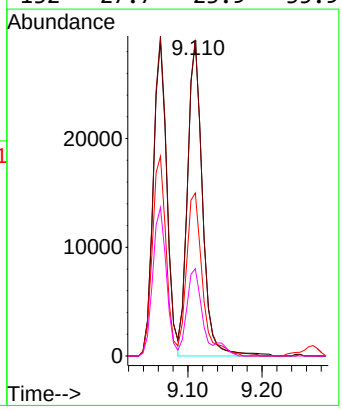
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

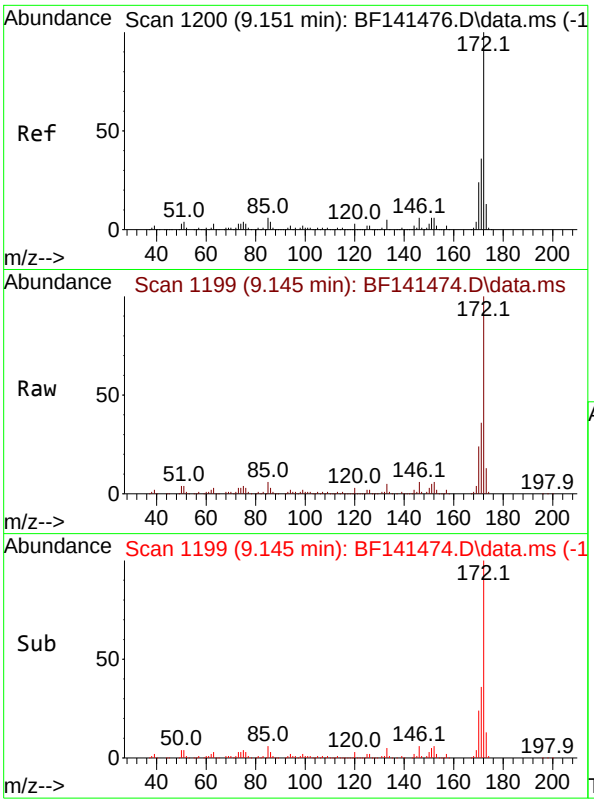


#44
2,4,5-Trichlorophenol
Concen: 10.039 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:196 Resp: 40697

Ion	Ratio	Lower	Upper
196	100		
198	100.3	79.8	119.8
97	51.7	44.8	67.2
132	27.7	23.9	35.9

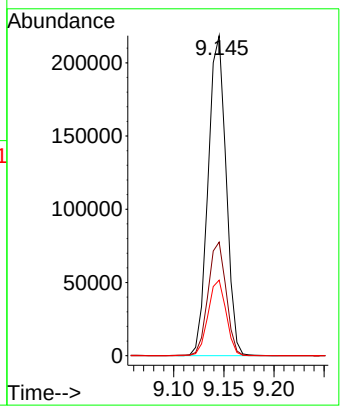




#45
2-Fluorobiphenyl
Concen: 20.947 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:172 Resp: 27198

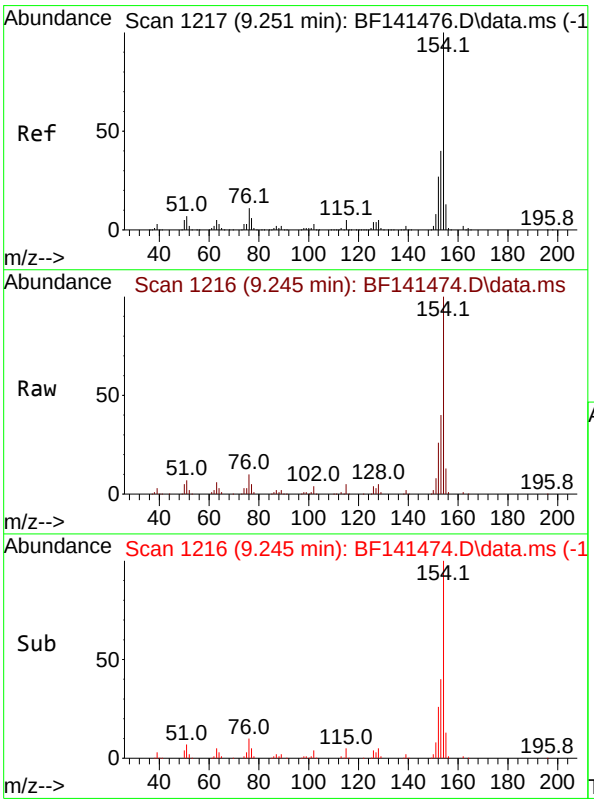
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.6	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

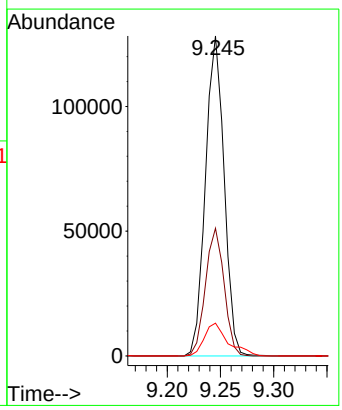
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

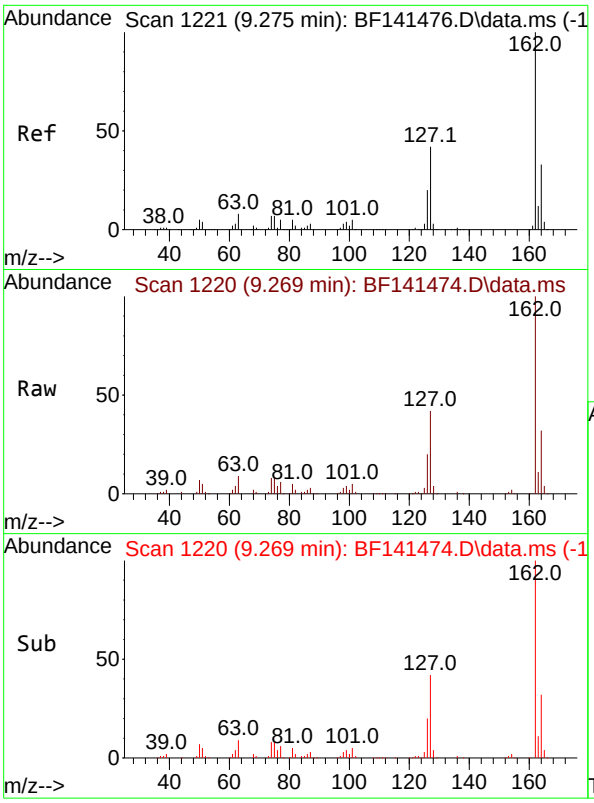


#46
1,1'-Biphenyl
Concen: 10.086 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:154 Resp: 156431

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.4	60.4
76	10.3	0.0	30.8

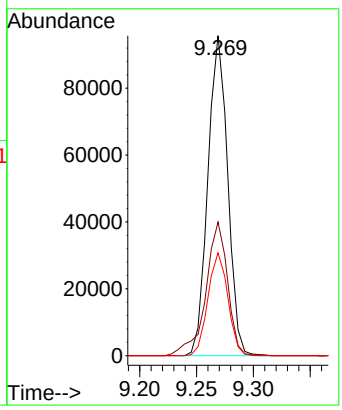




#47
2-Chloronaphthalene
Concen: 10.125 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:162 Resp: 11611

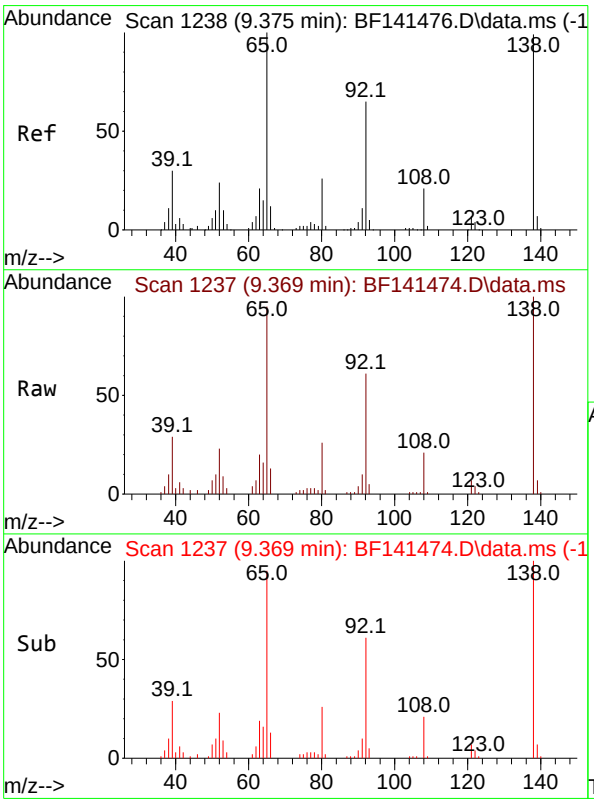
Ion	Ratio	Lower	Upper
162	100		
127	41.8	34.1	51.1
164	32.1	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

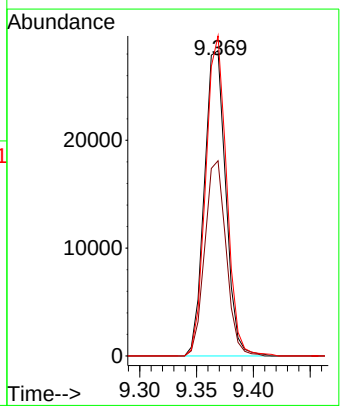
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

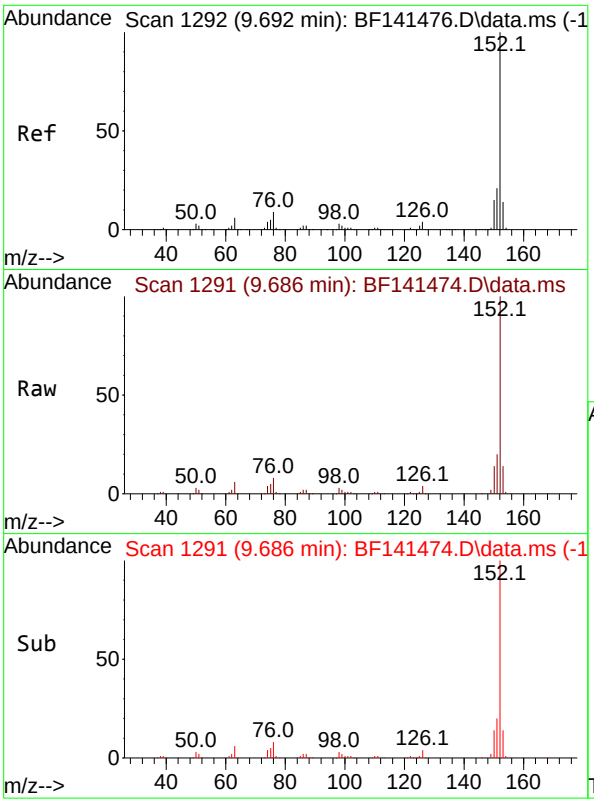


#48
2-Nitroaniline
Concen: 9.653 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 65 Resp: 37155

Ion	Ratio	Lower	Upper
65	100		
92	63.9	52.2	78.2
138	104.8	79.5	119.3

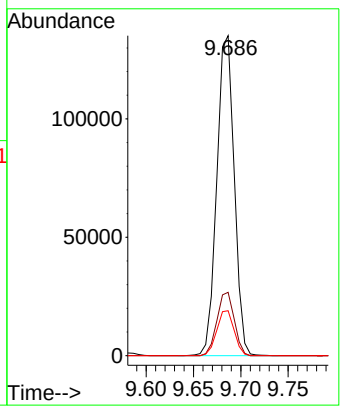




#49
Acenaphthylene
Concen: 10.179 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:152 Resp: 17364

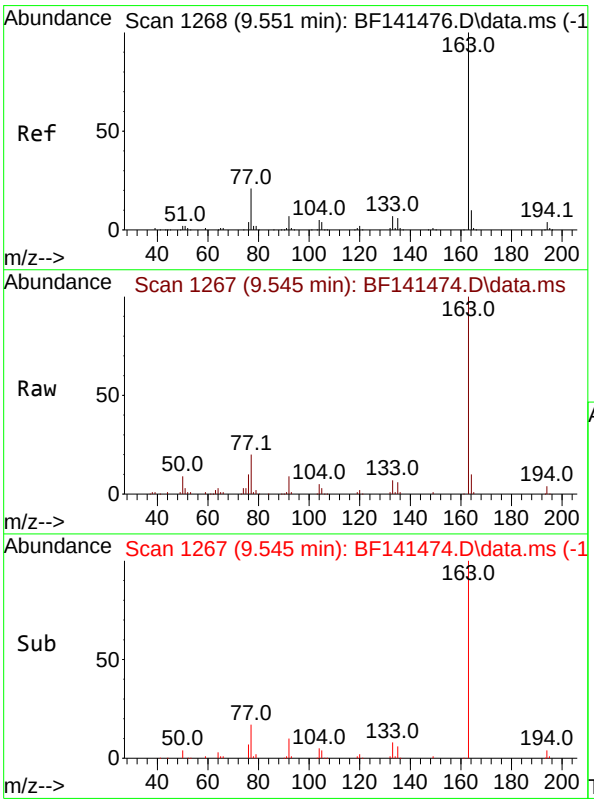
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.4	24.6
153	14.1	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

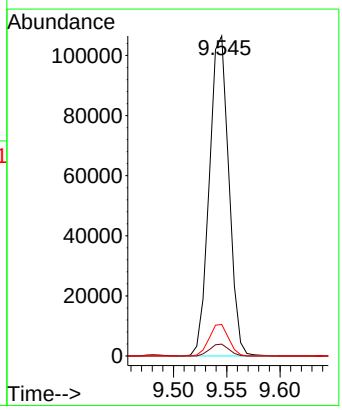
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

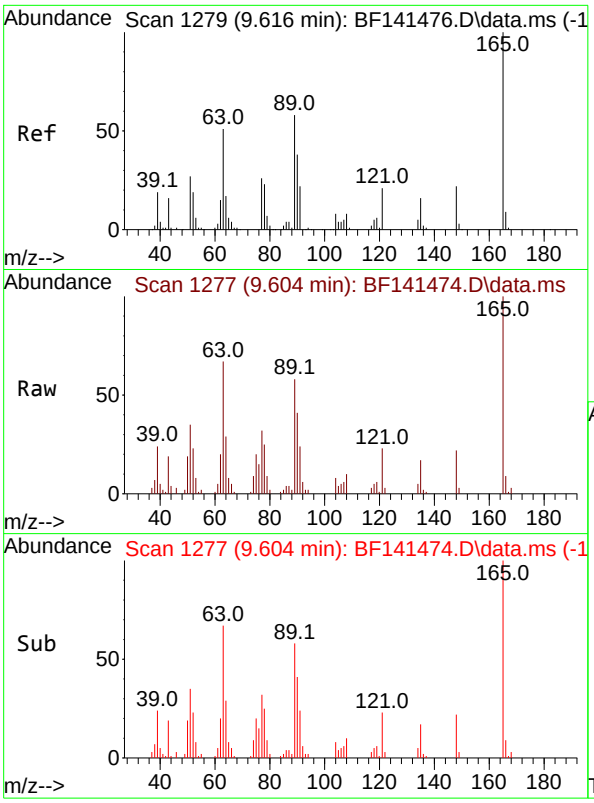


#50
Dimethylphthalate
Concen: 10.006 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:163 Resp: 135886

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	9.8	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 9.770 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

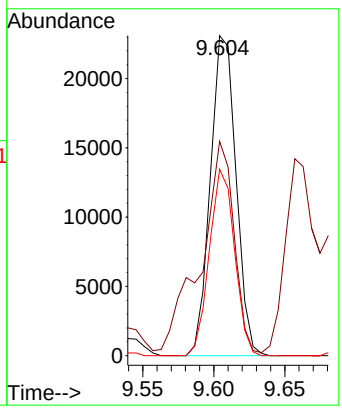
Tgt Ion:165 Resp: 2900

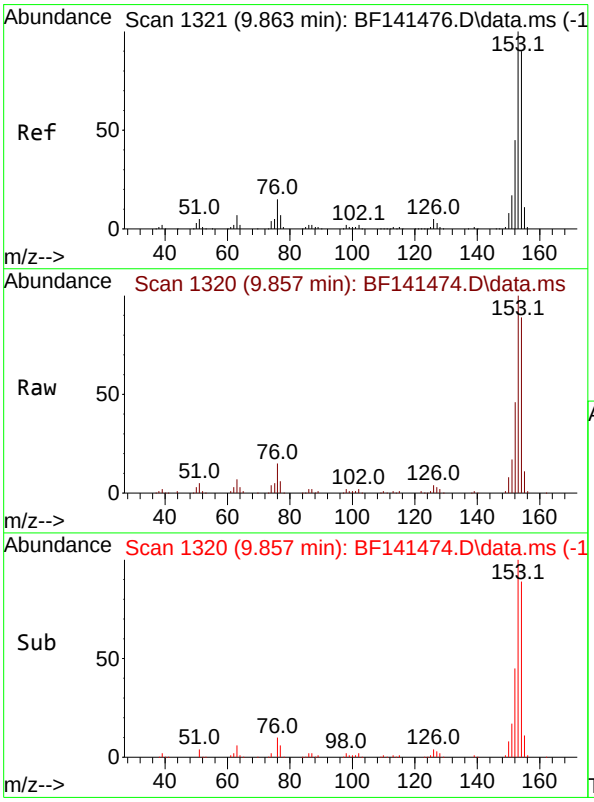
Ion	Ratio	Lower	Upper
165	100		
63	67.0	49.4	74.0
89	58.2	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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

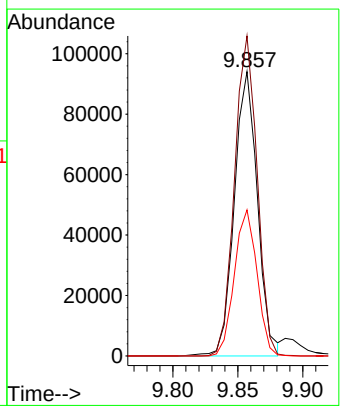


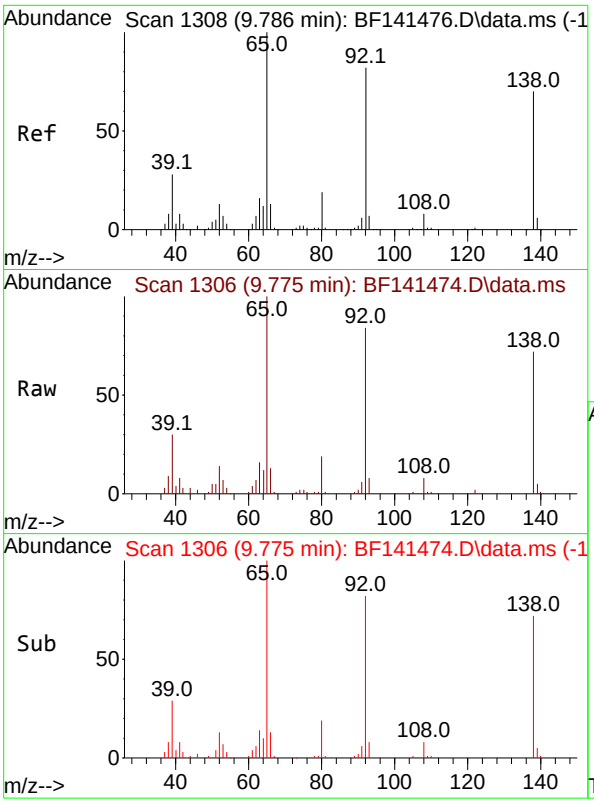


#52
Acenaphthene
Concen: 10.155 ng m
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:154 Resp: 116461

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	51.4	39.8	59.8





#53
3-Nitroaniline
Concen: 9.805 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

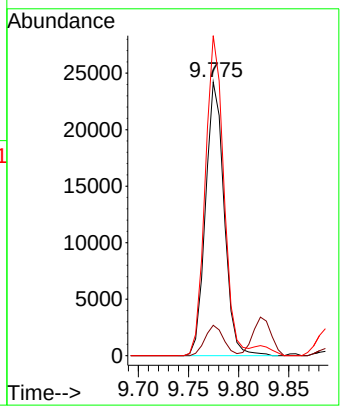
Tgt Ion:138 Resp: 3133

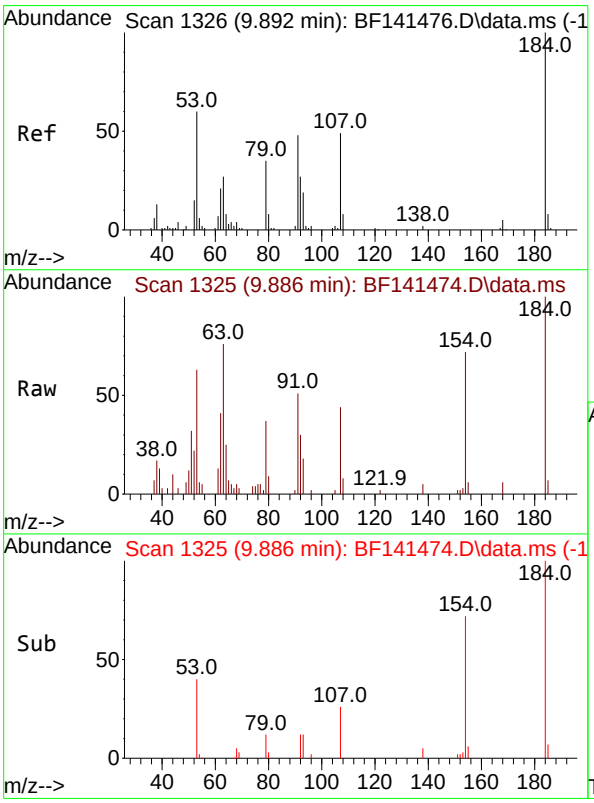
Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	116.9	93.7	140.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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

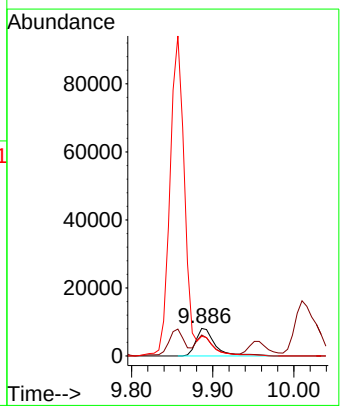


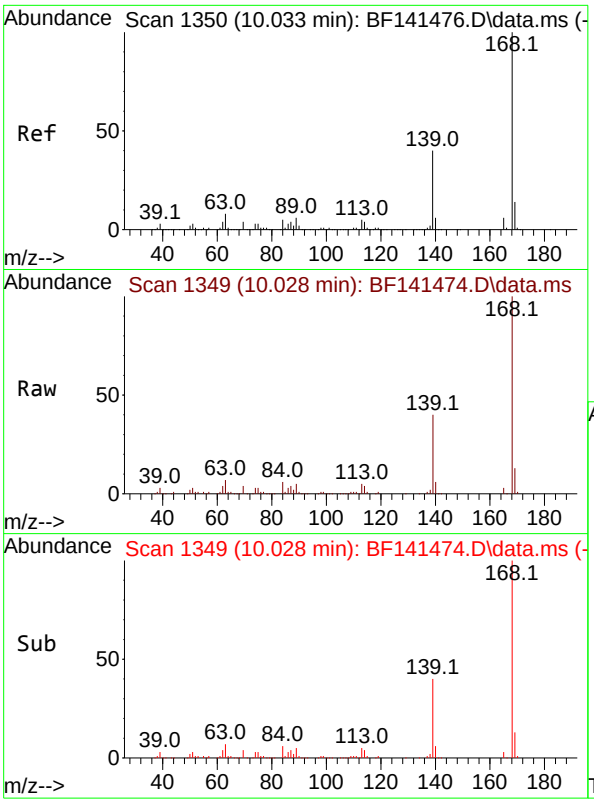


#54
2,4-Dinitrophenol
Concen: 7.561 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.018 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:184 Resp: 13341

Ion	Ratio	Lower	Upper
184	100		
63	75.9	61.0	91.6
154	71.6	59.9	89.9

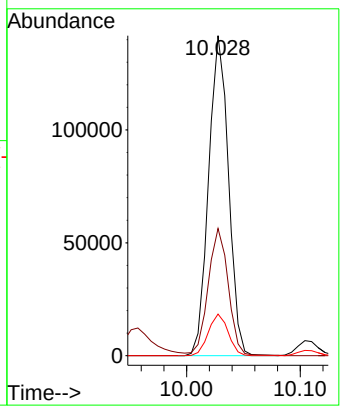




#55
Dibenzofuran
Concen: 10.230 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:168 Resp: 17220

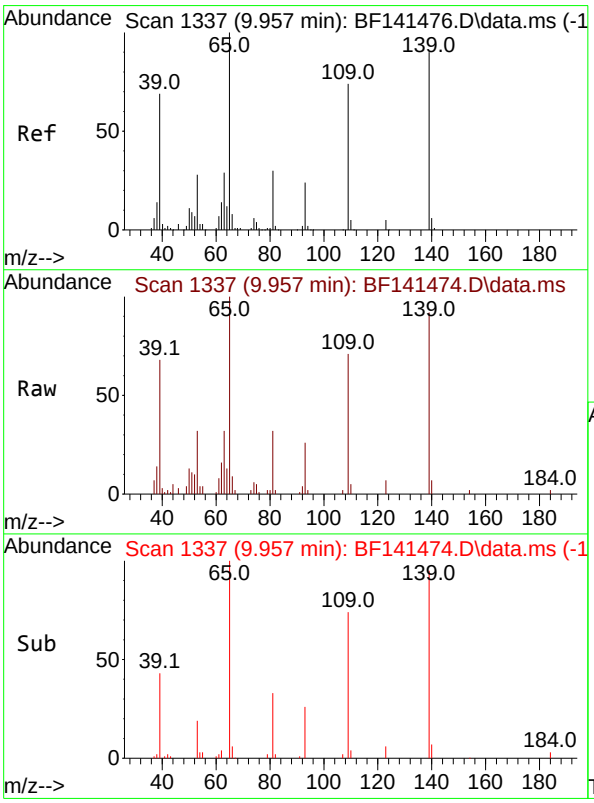
Ion	Ratio	Lower	Upper
168	100		
139	39.8	32.7	49.1
169	13.0	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

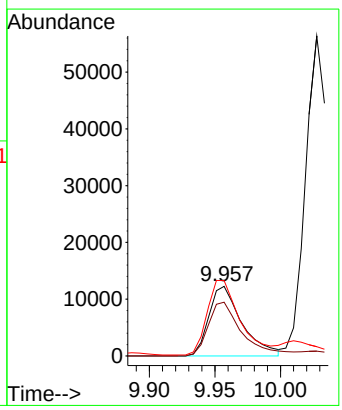
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

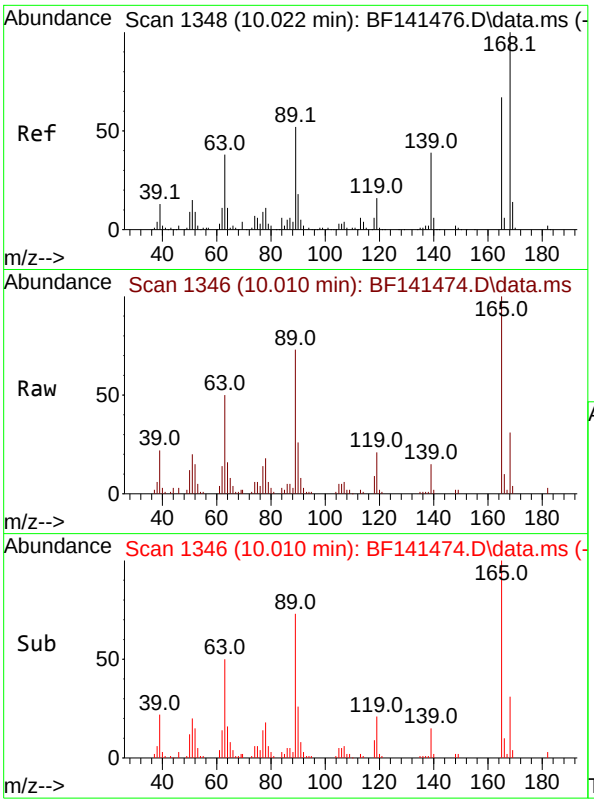


#56
4-Nitrophenol
Concen: 9.093 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 21569

Ion	Ratio	Lower	Upper
139	100		
109	77.2	62.0	102.0
65	108.2	91.2	131.2

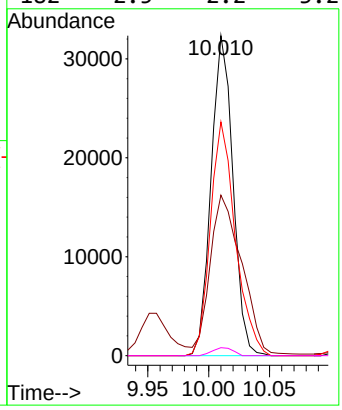




#57
2,4-Dinitrotoluene
Concen: 10.198 ng
RT: 10.010 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:165 Resp: 4030

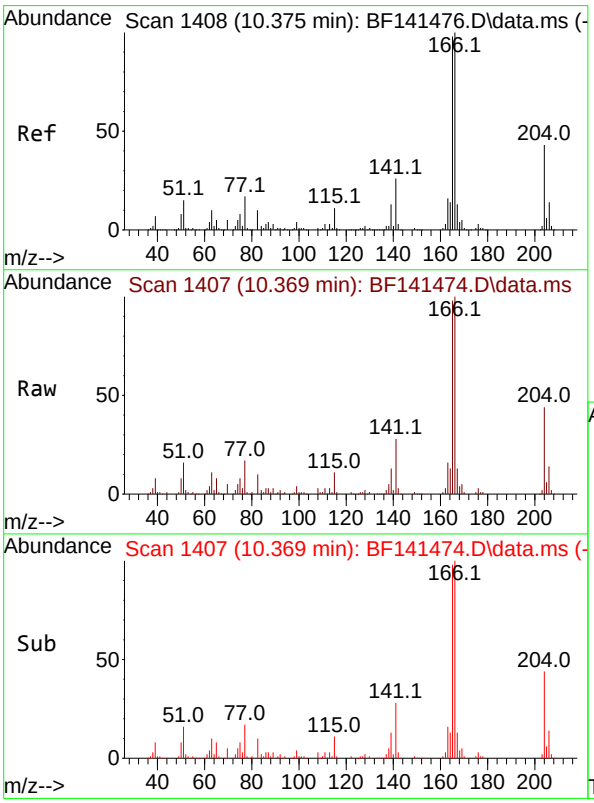
Ion	Ratio	Lower	Upper
165	100		
63	50.1	46.4	69.6
89	73.1	61.8	92.6
182	2.5	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

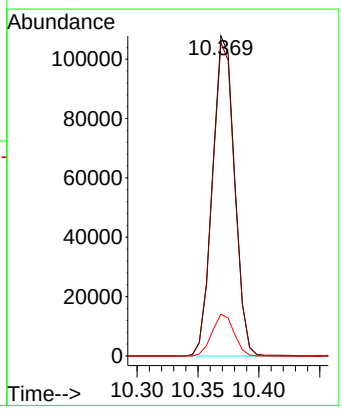
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

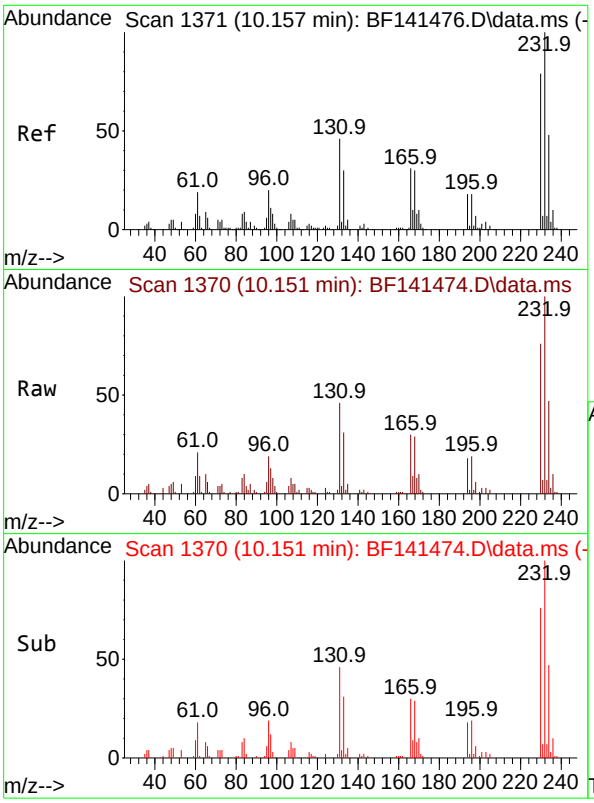


#58
Fluorene
Concen: 10.458 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:166 Resp: 136110

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.2	117.2
167	13.0	10.7	16.1

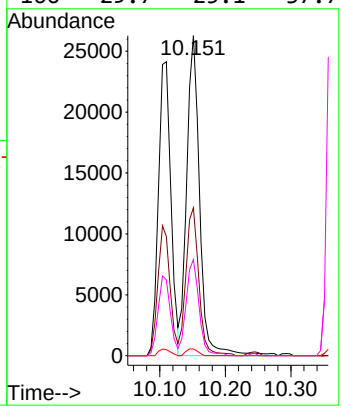




#59
2,3,4,6-Tetrachlorophenol
Concen: 10.344 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:232 Resp: 3610

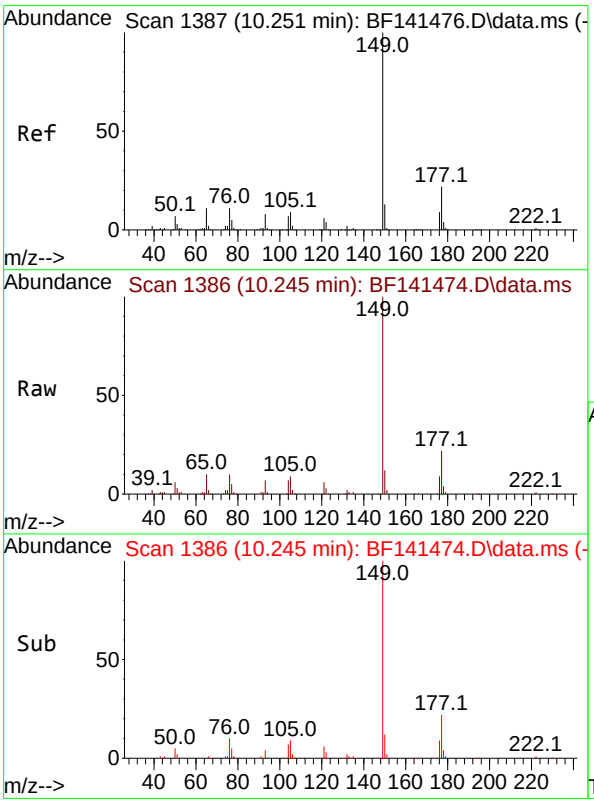
Ion	Ratio	Lower	Upper
232	100		
131	45.8	39.2	58.8
130	1.9	2.1	3.1#
166	29.7	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

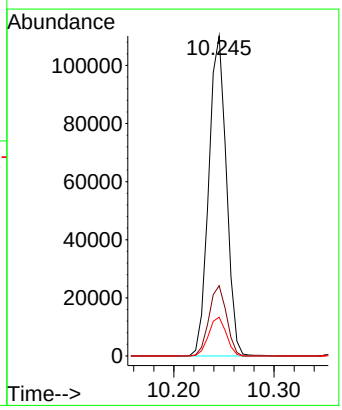
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

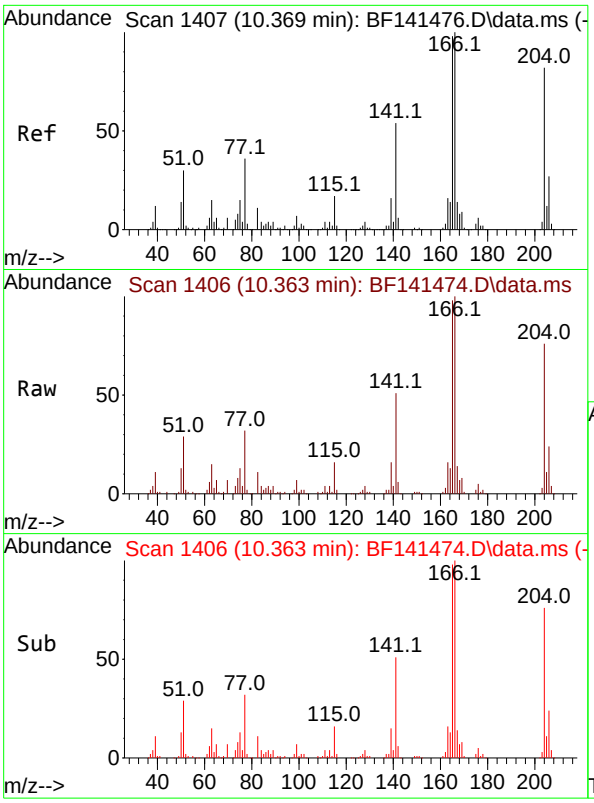


#60
Diethylphthalate
Concen: 10.073 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 134593

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.8	26.6
150	12.1	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 10.270 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

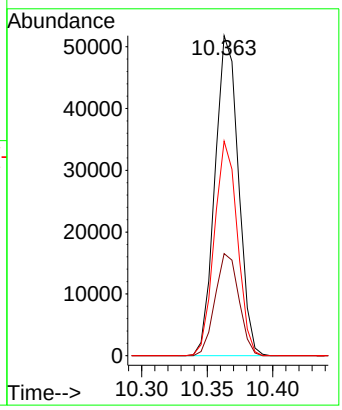
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

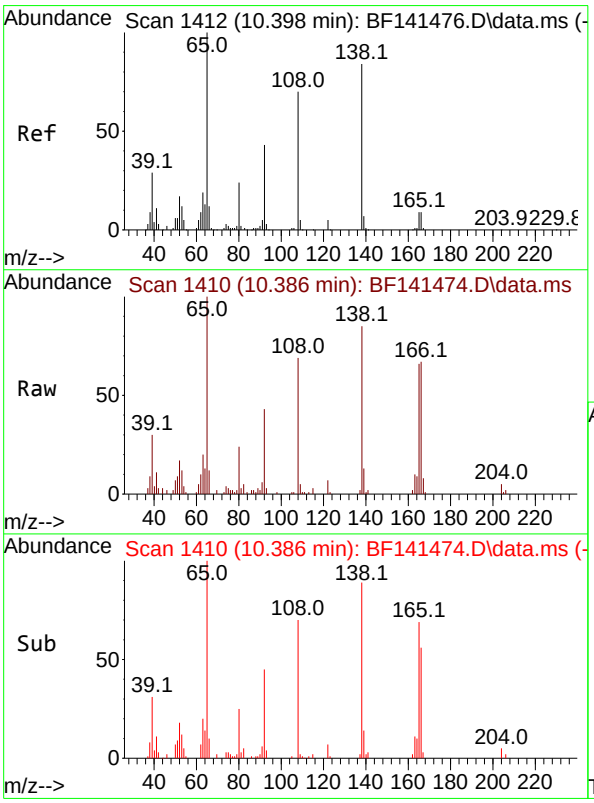
Tgt Ion:204 Resp: 6430

Ion	Ratio	Lower	Upper
204	100		
206	31.9	26.6	40.0
141	67.1	51.9	77.9

Manual Integrations
APPROVED

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

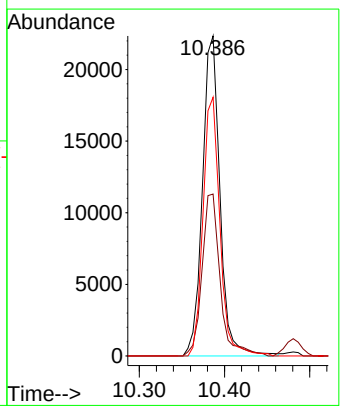


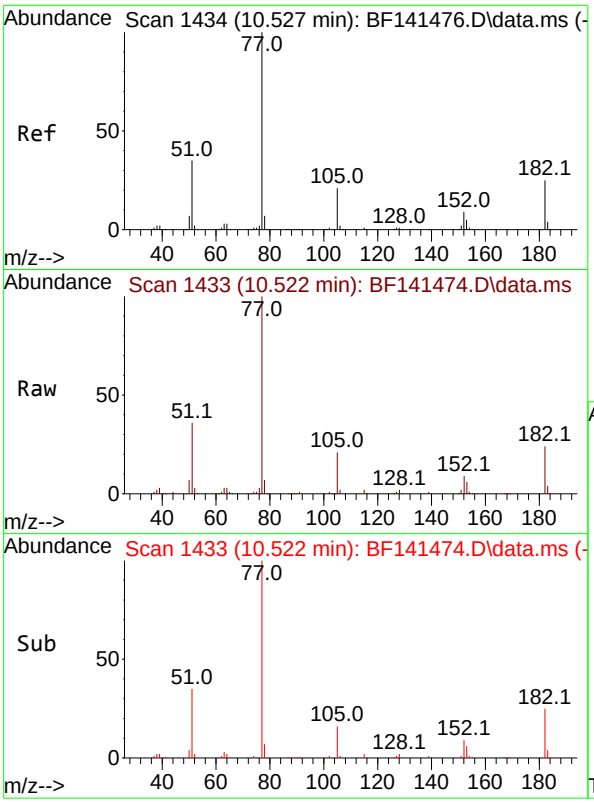


#62
4-Nitroaniline
Concen: 9.842 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:138 Resp: 31934

Ion	Ratio	Lower	Upper
138	100		
92	50.6	31.3	71.3
108	80.8	63.7	103.7

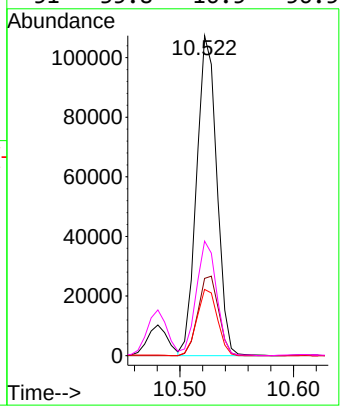




#63
Azobenzene
Concen: 10.010 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 13296

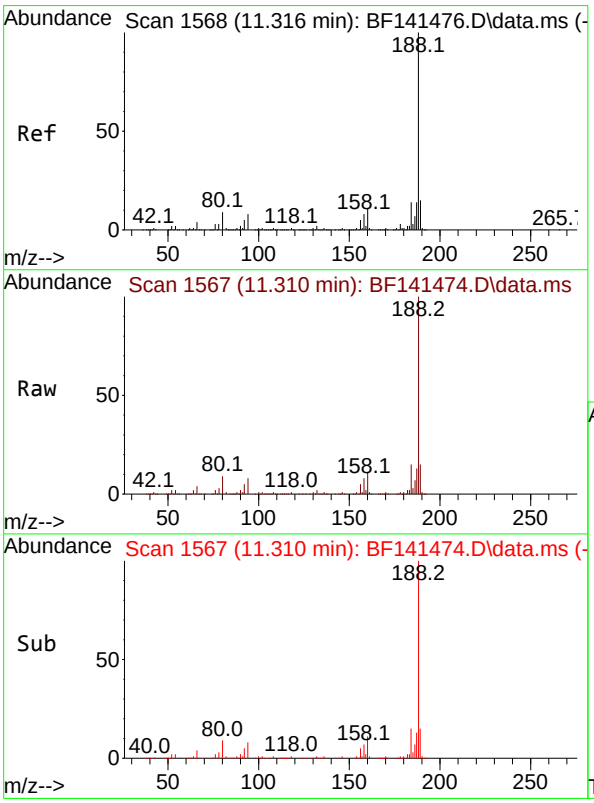
Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.7	44.7
105	20.7	0.4	40.4
51	35.8	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

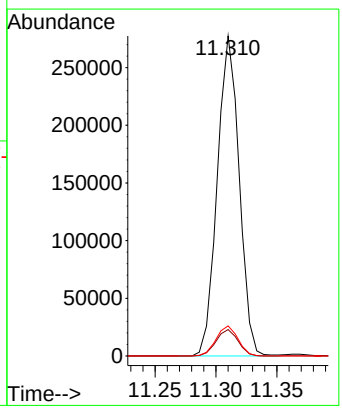
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

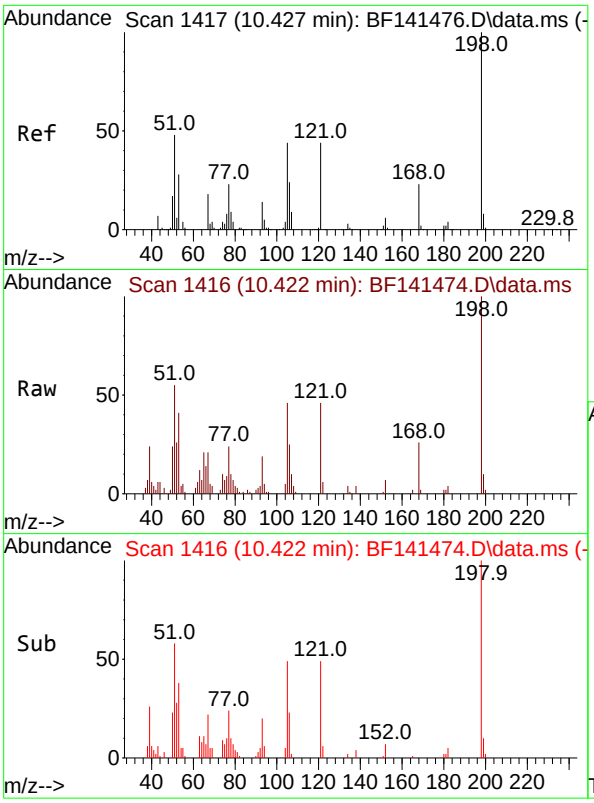


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:188 Resp: 347312

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.4	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 8.320 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

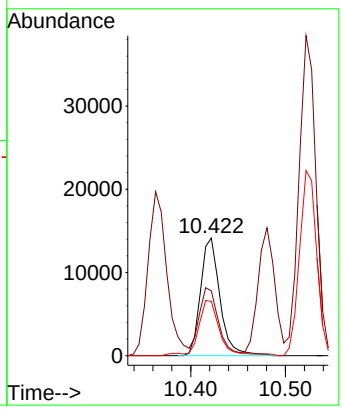
Tgt Ion:198 Resp: 2007

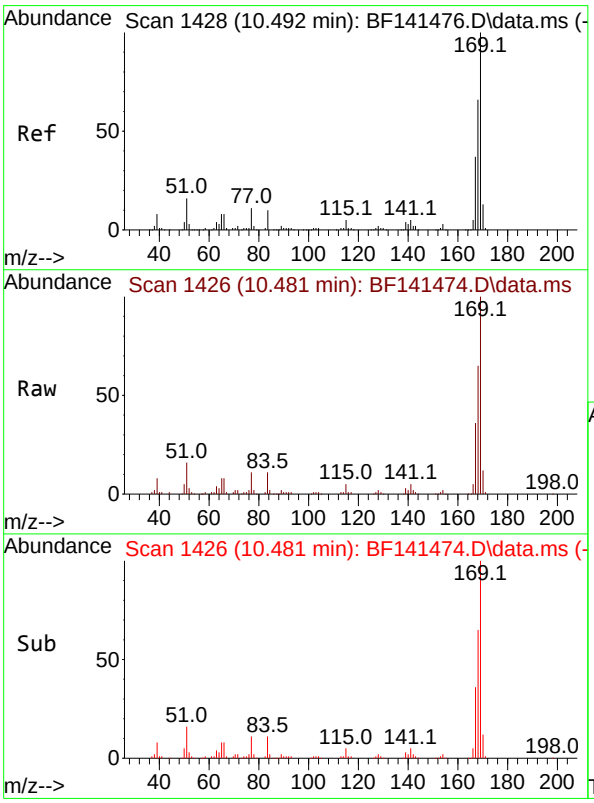
Ion	Ratio	Lower	Upper
198	100		
51	55.2	37.4	77.4
105	46.2	25.2	65.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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

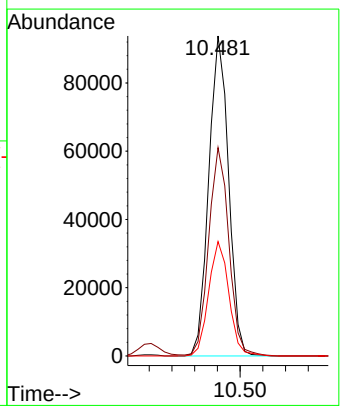


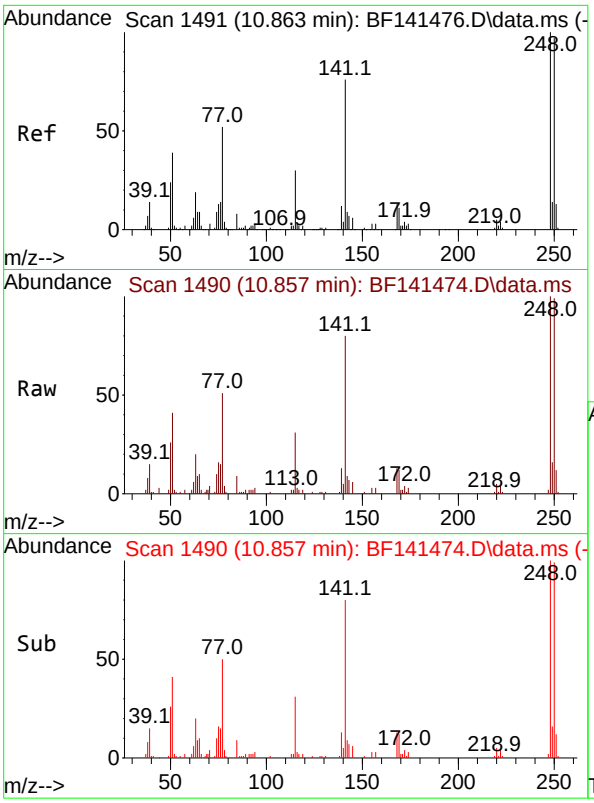


#66
n-Nitrosodiphenylamine
Concen: 10.201 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:169 Resp: 113408

Ion	Ratio	Lower	Upper
169	100		
168	65.1	53.3	79.9
167	35.7	29.4	44.2

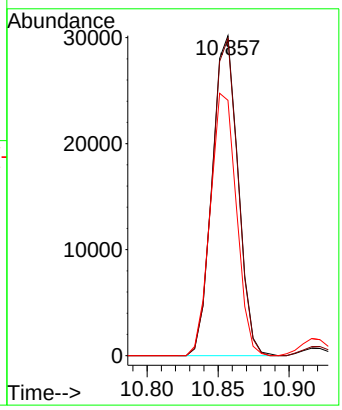




#67
4-Bromophenyl-phenylether
Concen: 9.856 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:248 Resp: 3825

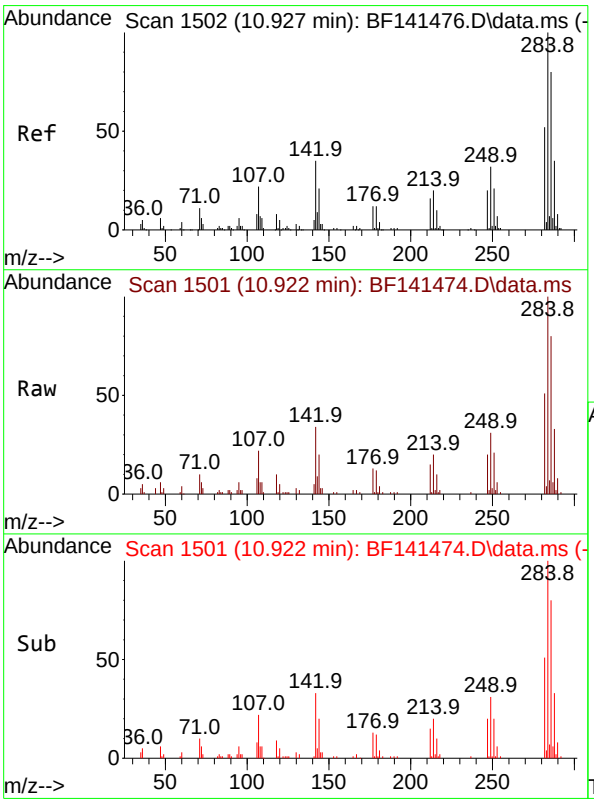
Ion	Ratio	Lower	Upper
248	100		
250	99.1	77.8	116.6
141	79.8	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

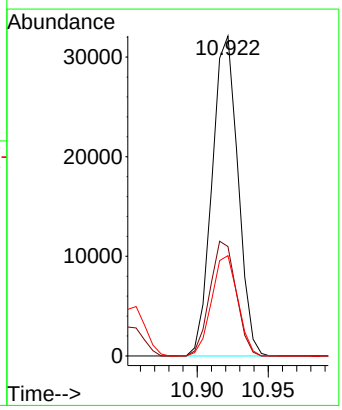
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

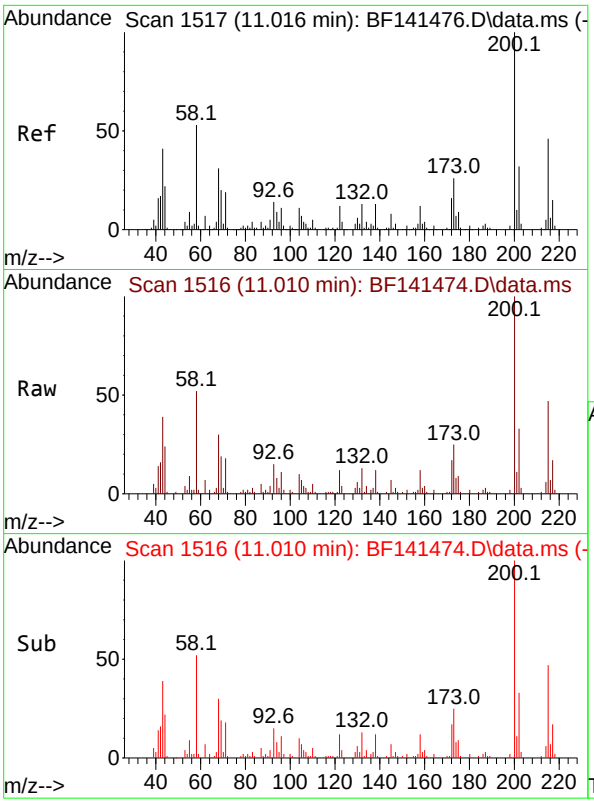


#68
Hexachlorobenzene
Concen: 10.186 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:284 Resp: 40715

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	31.3	25.8	38.8

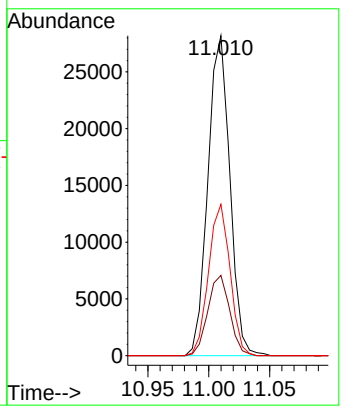




#69
Atrazine
Concen: 10.580 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:200 Resp: 3528

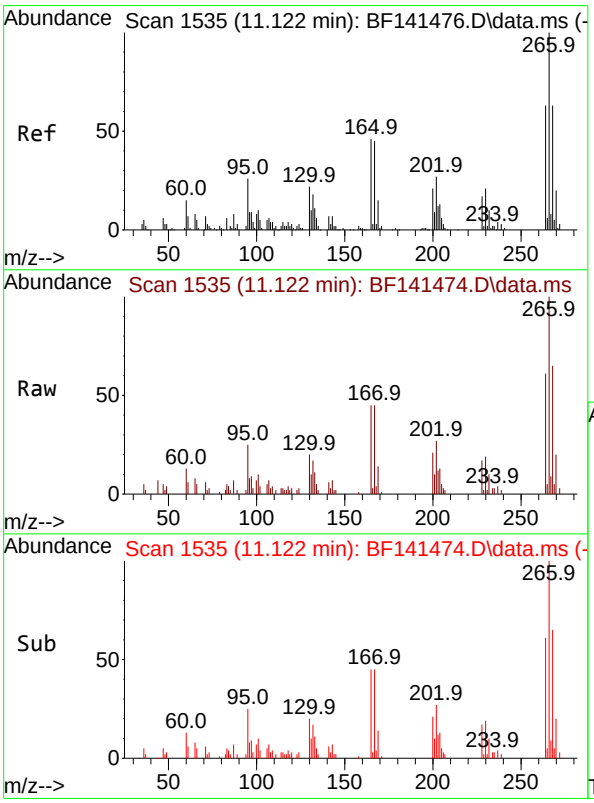
Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.9	45.9
215	47.3	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

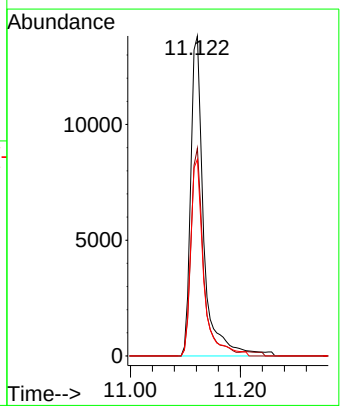
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

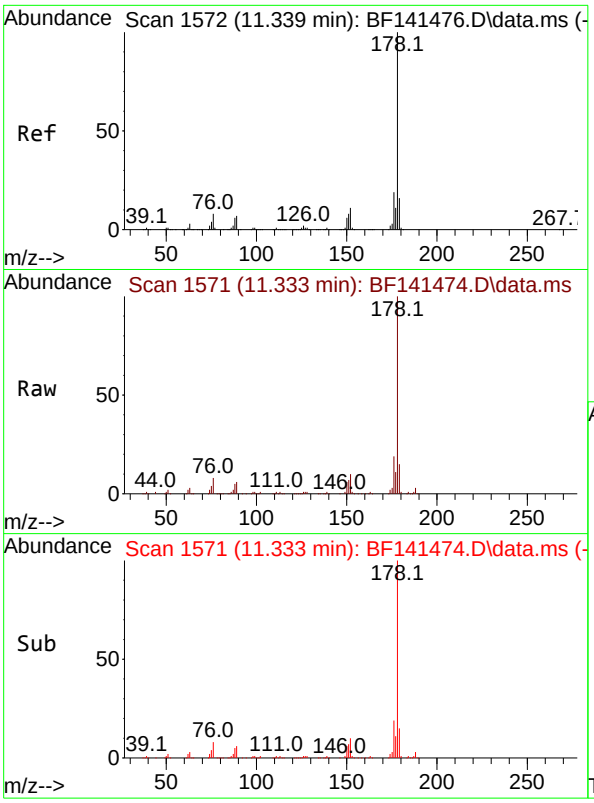


#70
Pentachlorophenol
Concen: 8.895 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:266 Resp: 22735

Ion	Ratio	Lower	Upper
266	100		
268	64.9	50.1	75.1
264	61.5	50.1	75.1

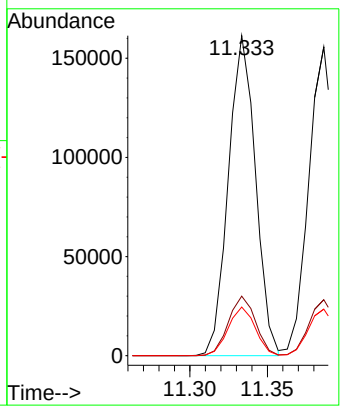




#71
Phenanthrene
Concen: 10.283 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:178 Resp: 19658

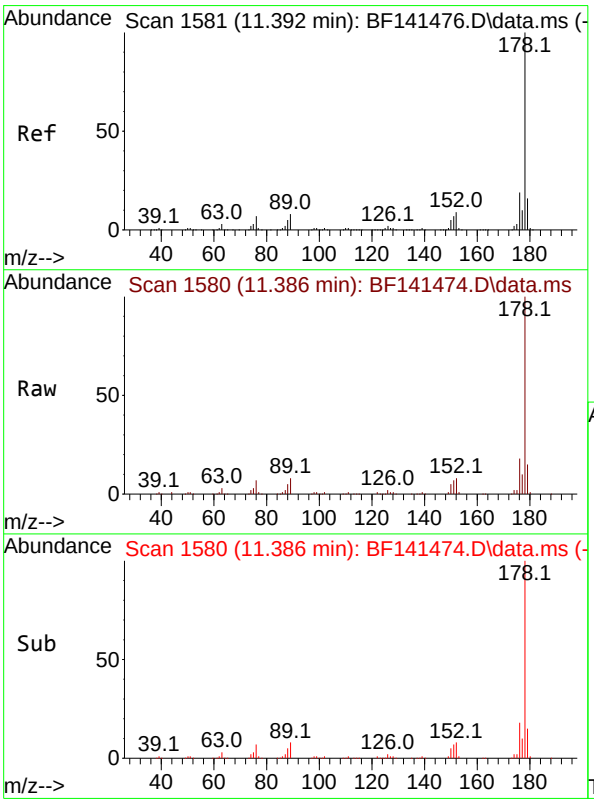
Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	15.2	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

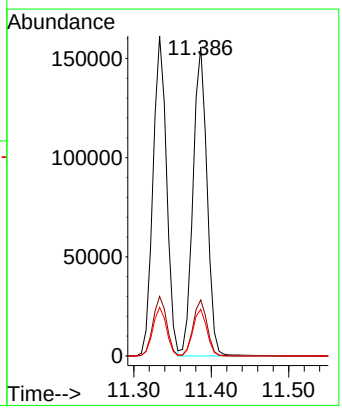
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

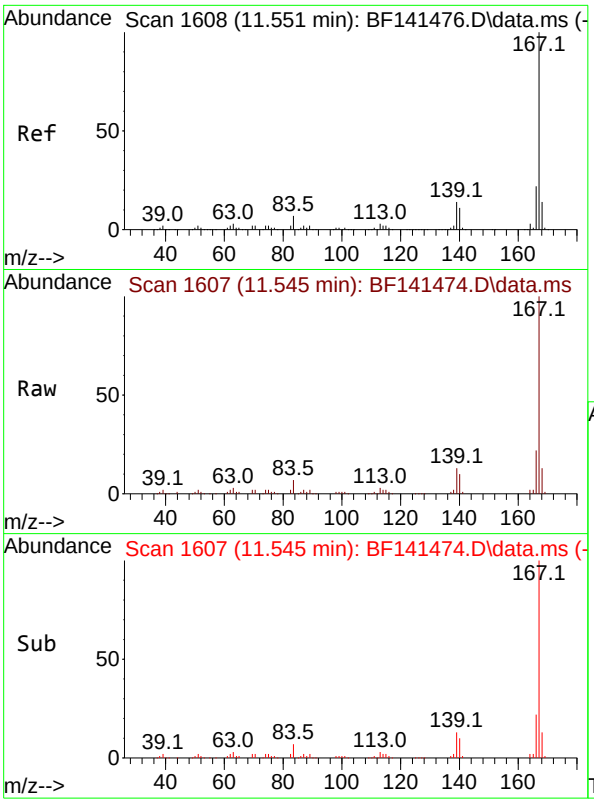


#72
Anthracene
Concen: 10.174 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:178 Resp: 195528

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.8	22.2
179	15.1	12.4	18.6

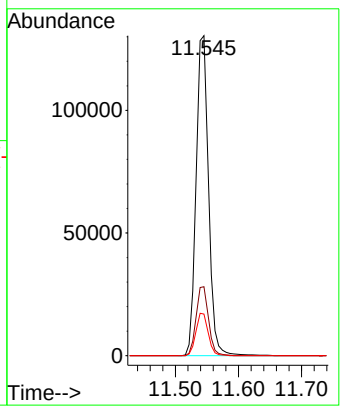




#73
Carbazole
Concen: 10.306 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:167 Resp: 17822

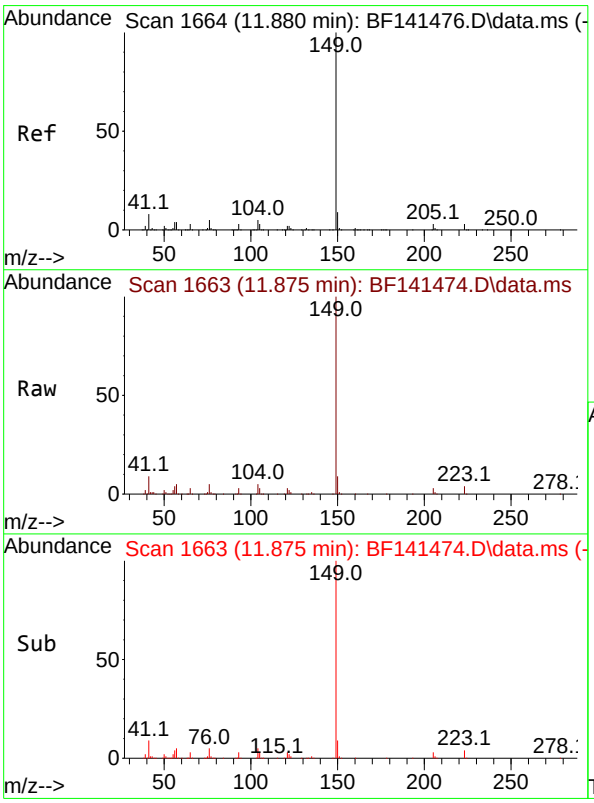
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

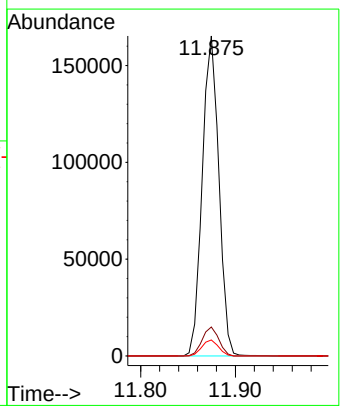
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

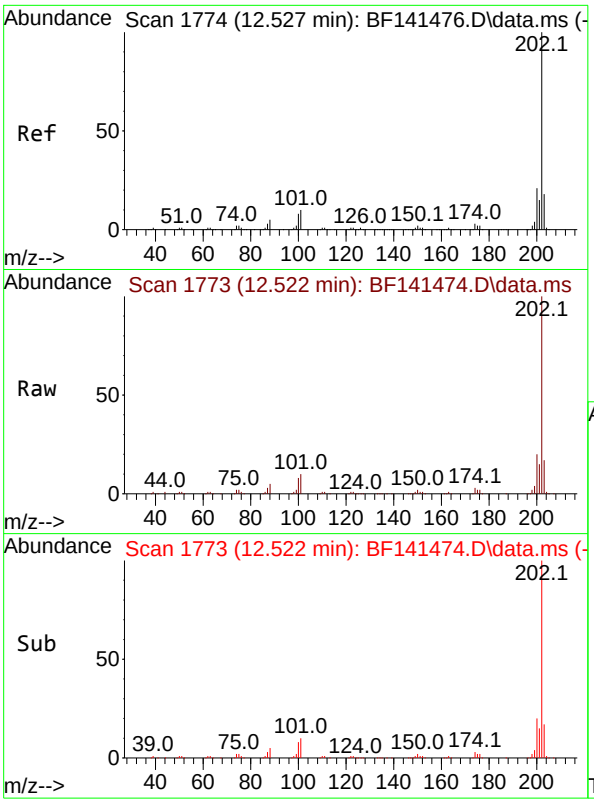


#74
Di-n-butylphthalate
Concen: 10.057 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 200806

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.0	4.2	6.2

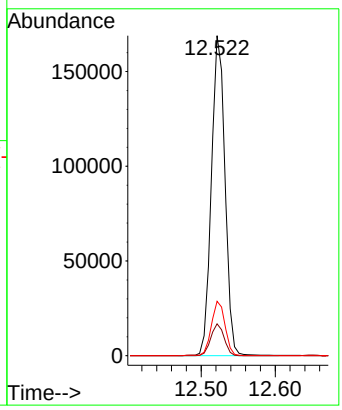




#75
Fluoranthene
Concen: 10.618 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:202 Resp: 21521

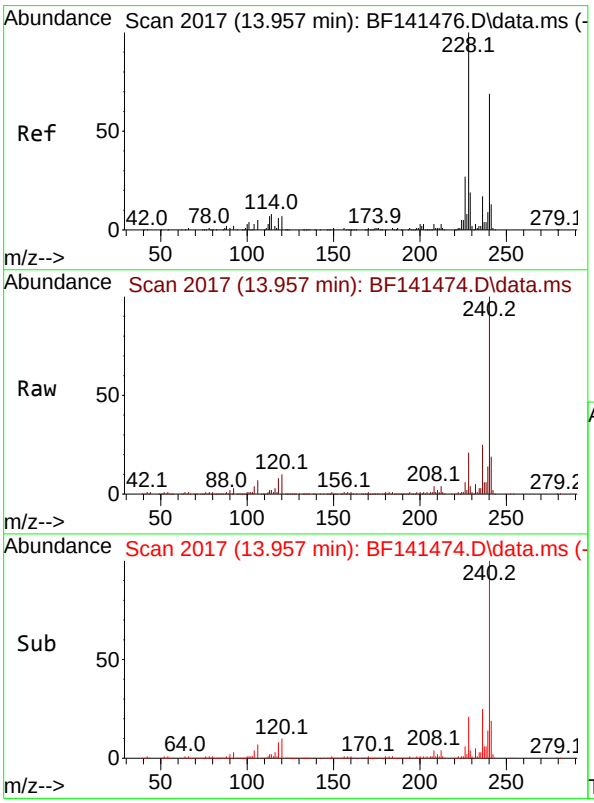
Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	30.2
203	17.0	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

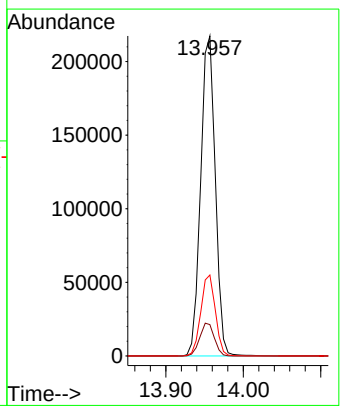
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

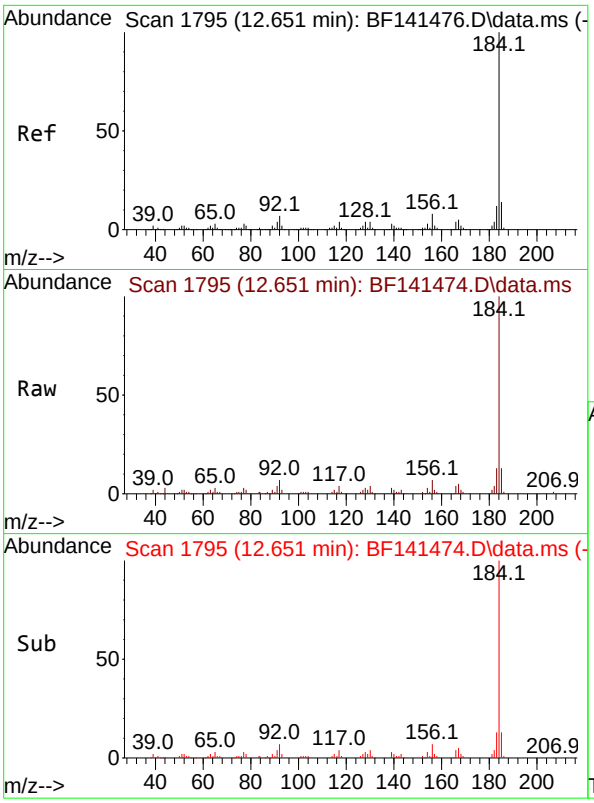


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:240 Resp: 284792

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	25.3	19.8	29.8

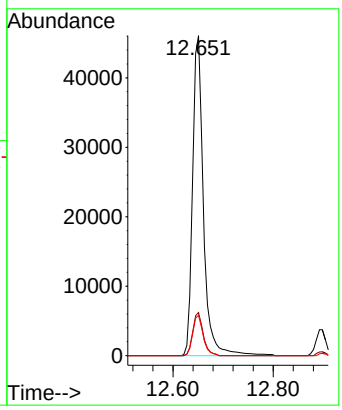




#77
Benzidine
Concen: 11.050 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:184 Resp: 6940

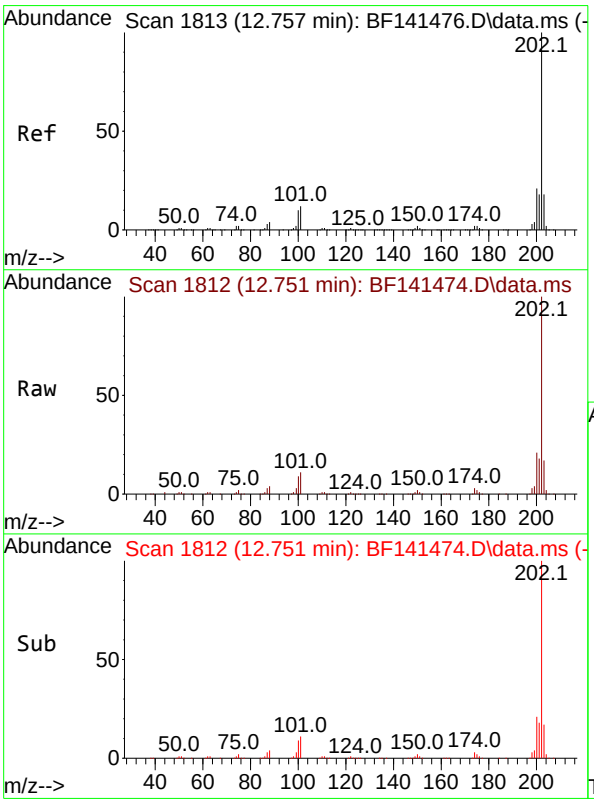
Ion	Ratio	Lower	Upper
184	100		
185	13.5	11.3	16.9
183	12.6	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

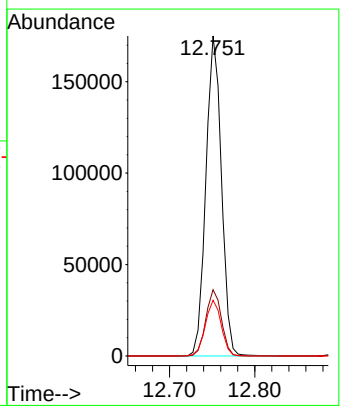
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

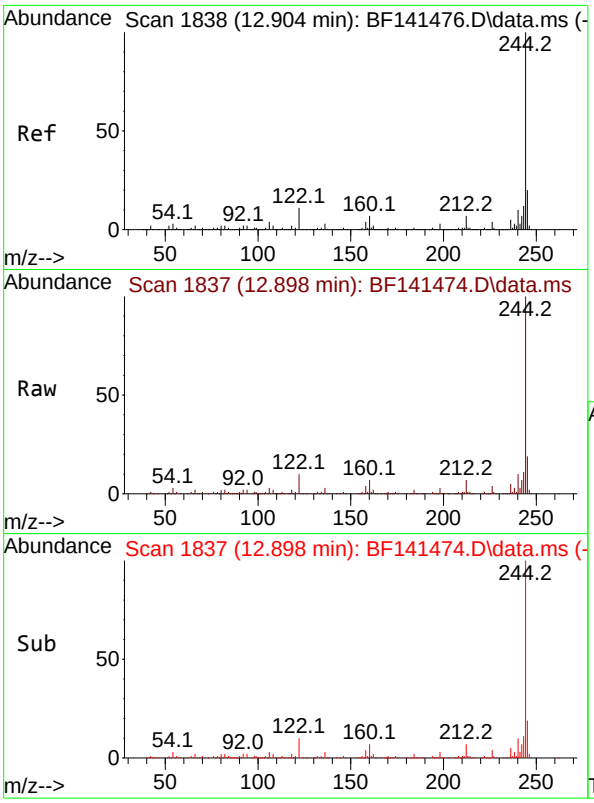


#78
Pyrene
Concen: 9.146 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:202 Resp: 221721

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.4	14.3	21.5





#79
Terphenyl-d14
Concen: 18.645 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

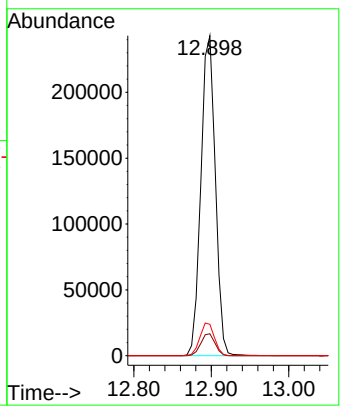
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

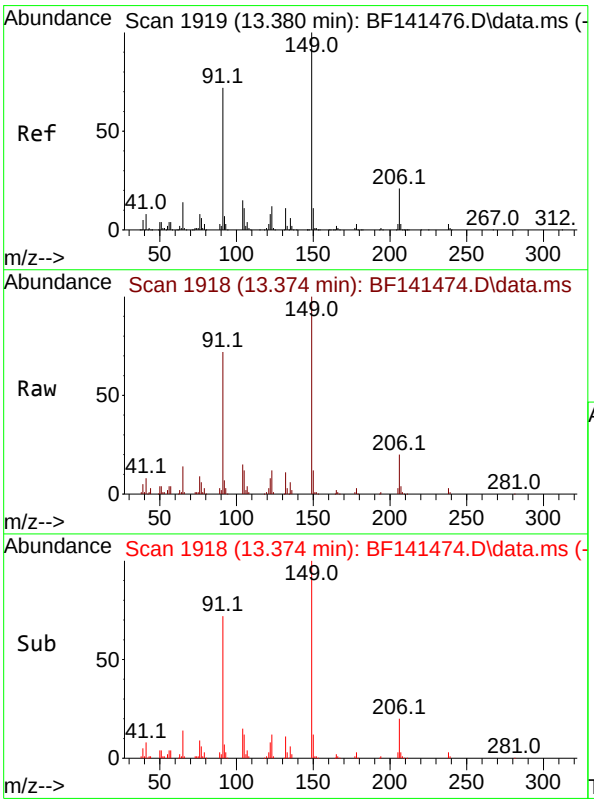
Tgt Ion:244 Resp: 31454

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	9.8	8.4	12.6

Manual Integrations
APPROVED

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

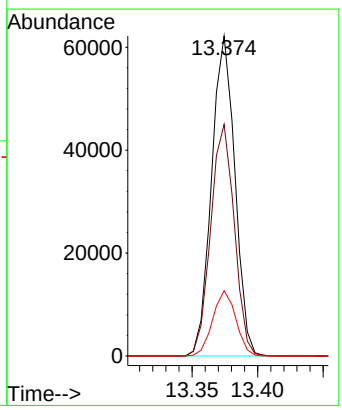


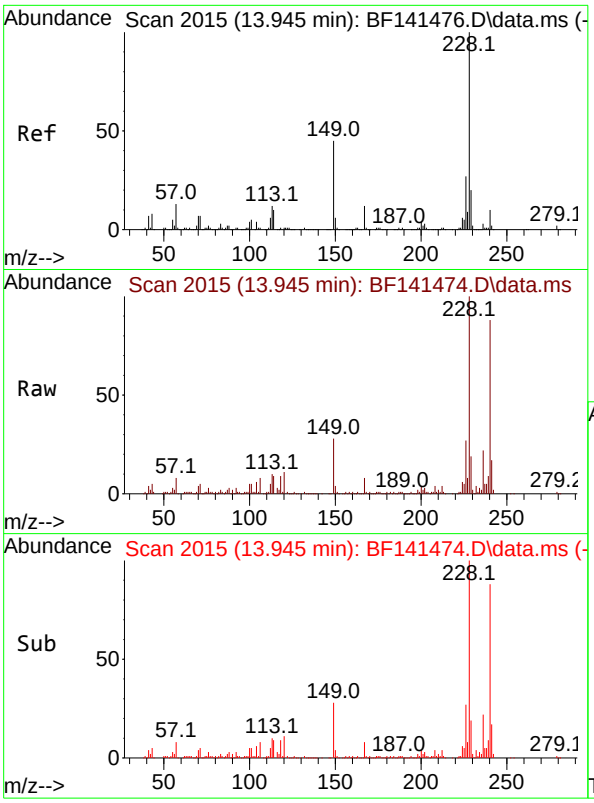


#80
Butylbenzylphthalate
Concen: 9.152 ng
RT: 13.374 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 76852

Ion	Ratio	Lower	Upper
149	100		
91	72.3	57.8	86.8
206	20.4	16.7	25.1

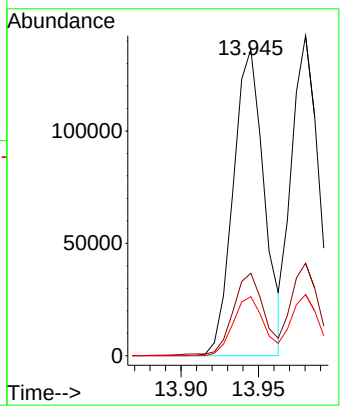




#81
Benzo(a)anthracene
Concen: 10.021 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:228 Resp: 18970

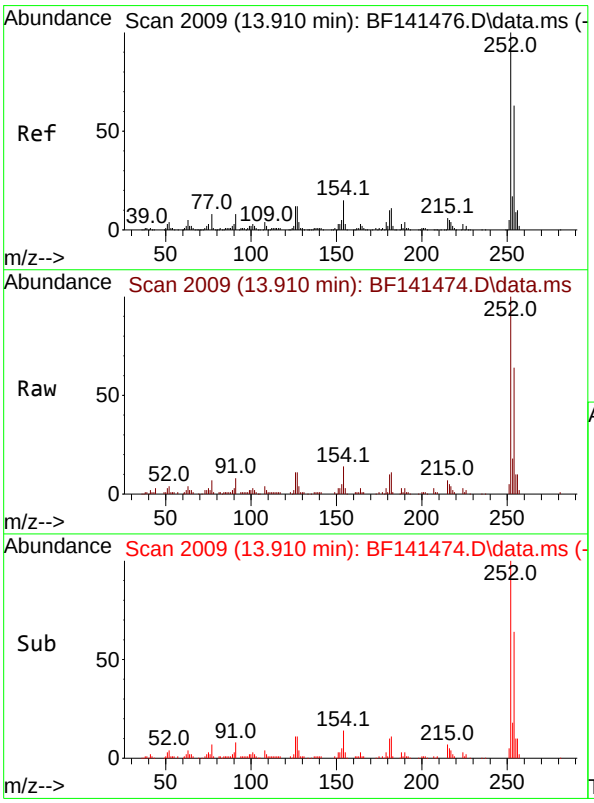
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

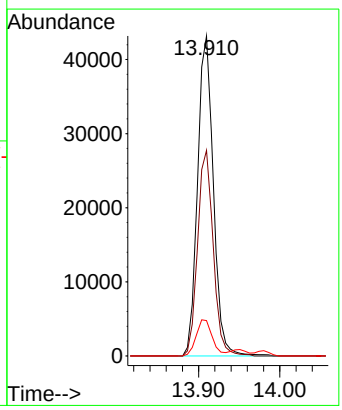
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

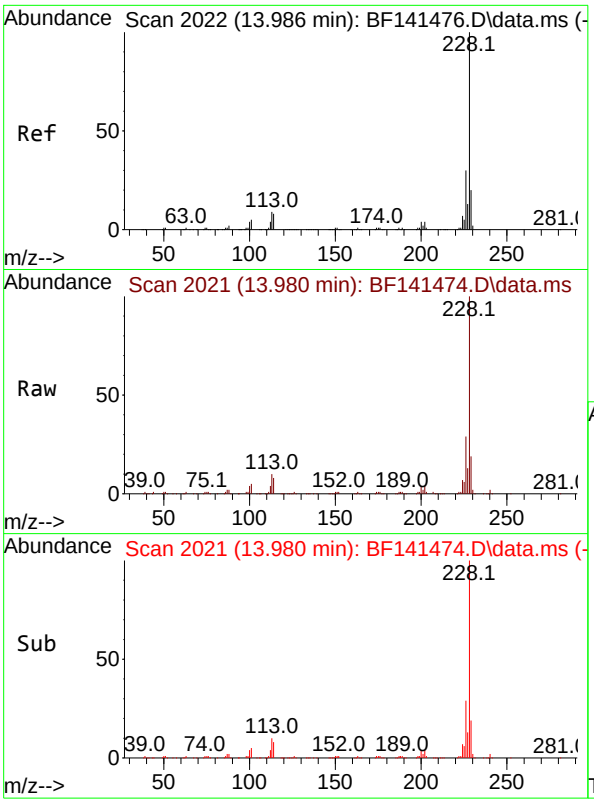


#82
3,3'-Dichlorobenzidine
Concen: 10.785 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 58487

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.6	76.0
126	11.1	9.3	13.9

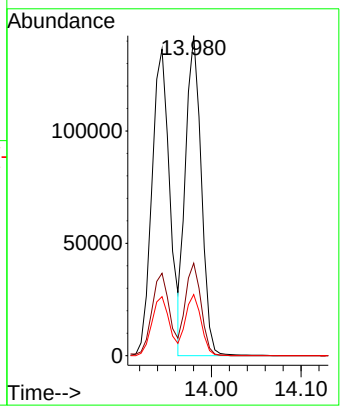




#83
Chrysene
Concen: 9.960 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:228 Resp: 17410

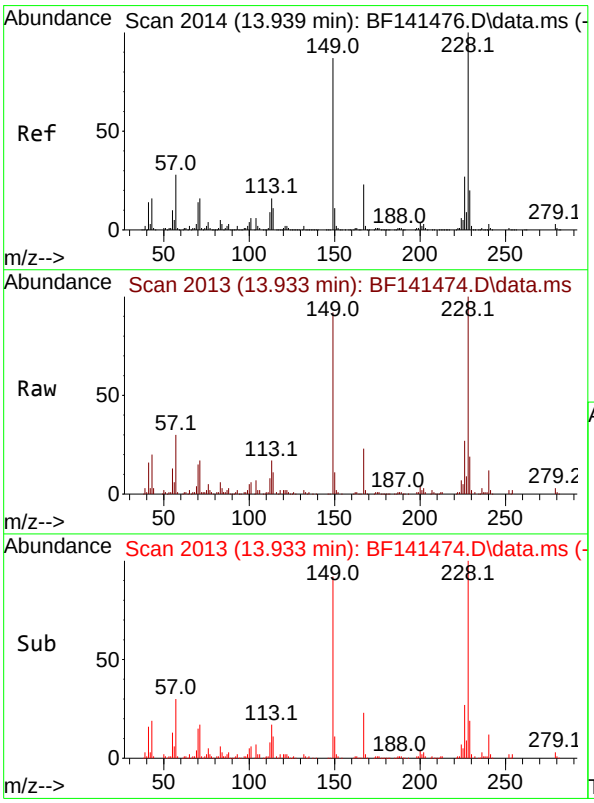
Ion	Ratio	Lower	Upper
228	100		
226	28.9	24.0	36.0
229	19.1	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

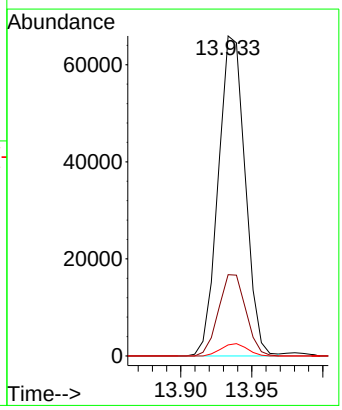
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

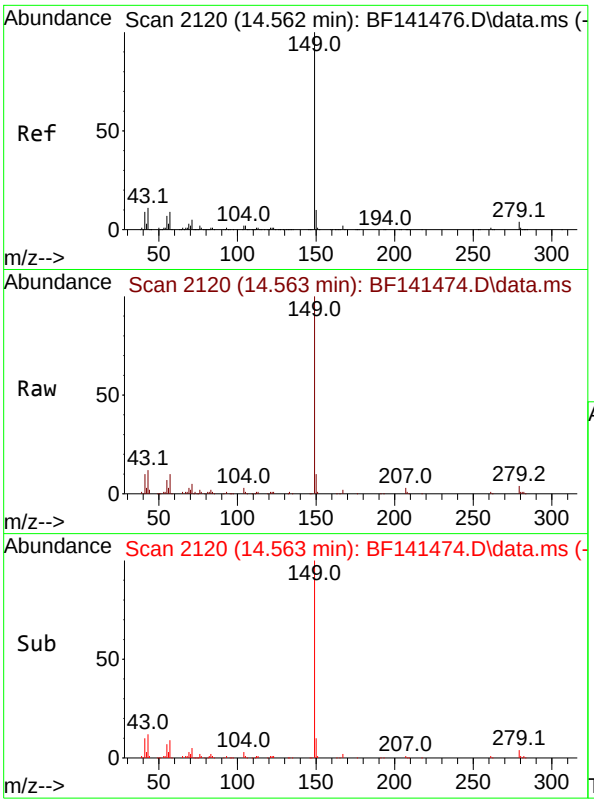


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.171 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 86853

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.4	32.0
279	3.5	3.1	4.7

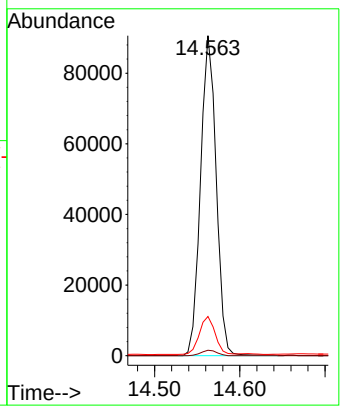




#85
Di-n-octyl phthalate
Concen: 8.576 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 11587

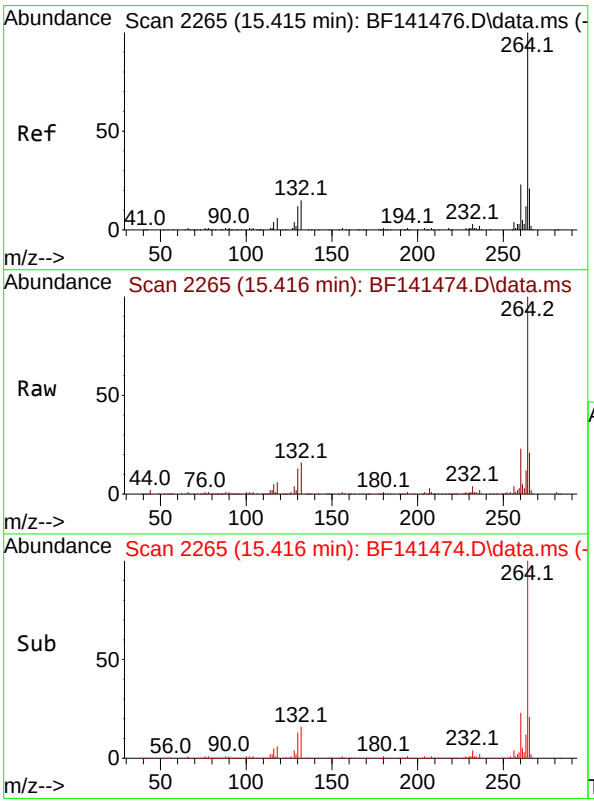
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	12.1	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

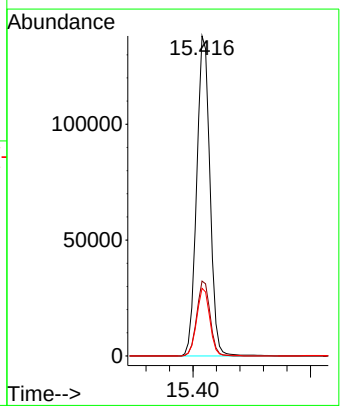
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

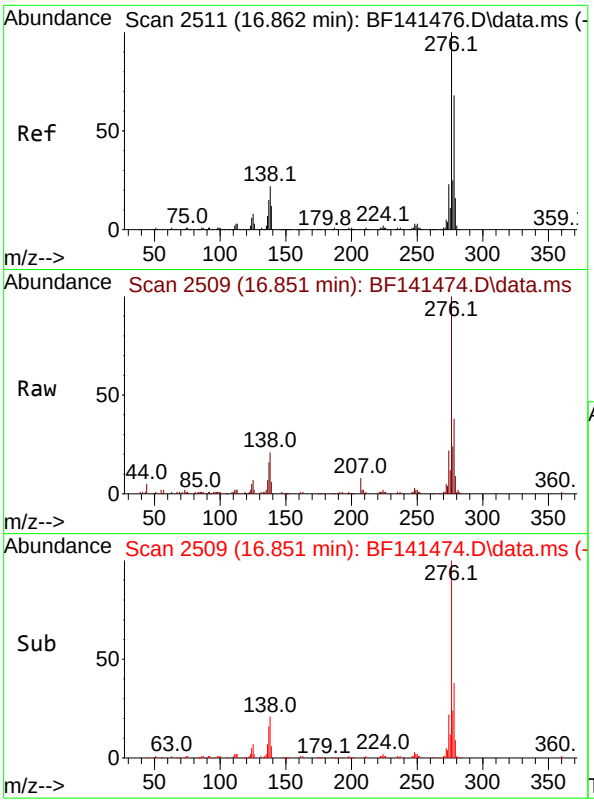


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:264 Resp: 215900

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	21.2	17.0	25.4

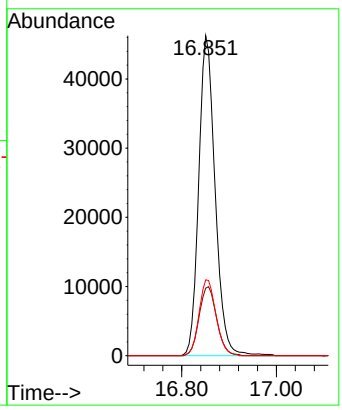




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.327 ng
RT: 16.851 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:276 Resp: 11108

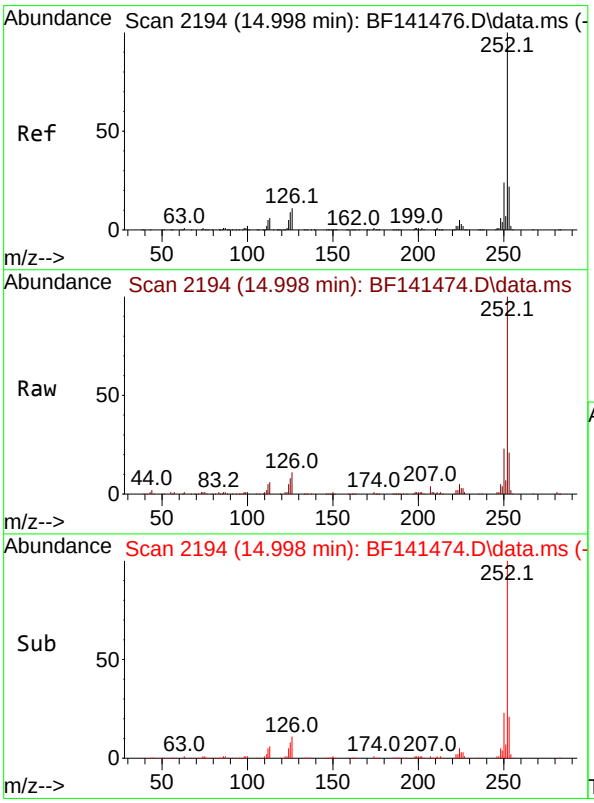
Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	24.5	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

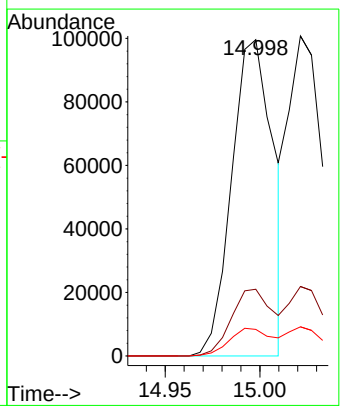
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

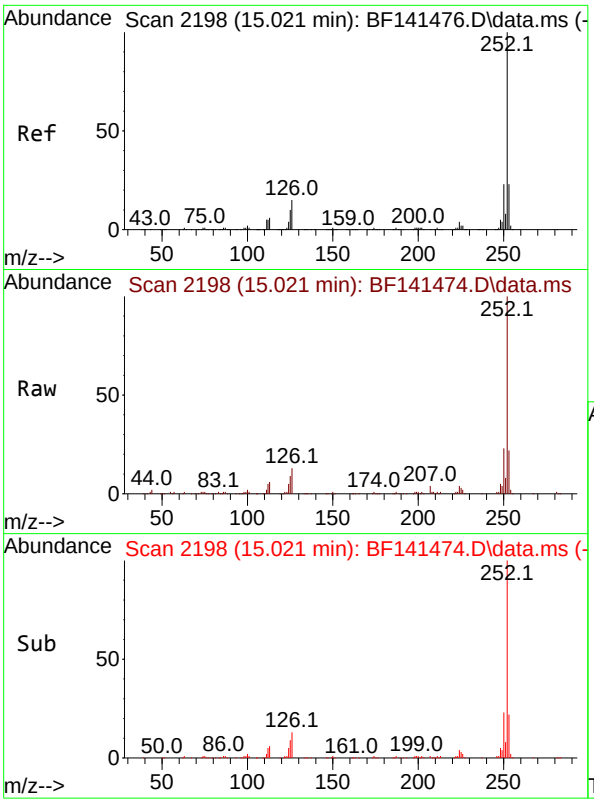


#88
Benzo(b)fluoranthene
Concen: 10.476 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 151861

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.5	26.3
125	8.4	7.0	10.6





#89
Benzo(k)fluoranthene
Concen: 10.604 ng
RT: 15.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

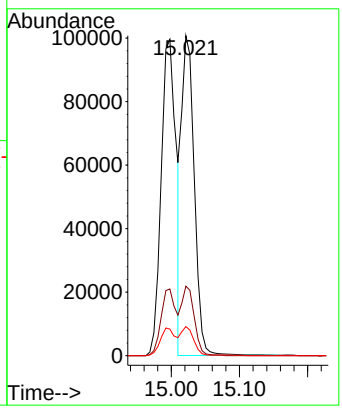
Tgt Ion:252 Resp: 13126

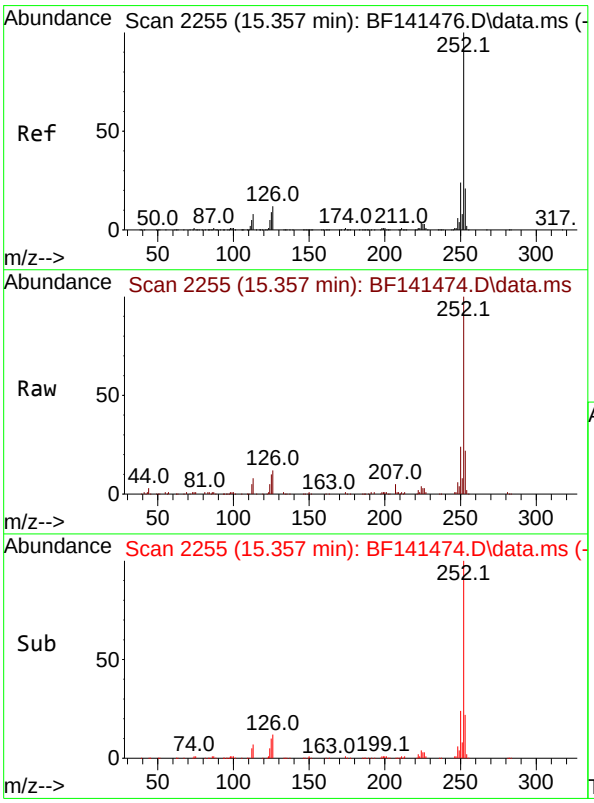
Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.0	27.0
125	9.1	7.4	11.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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

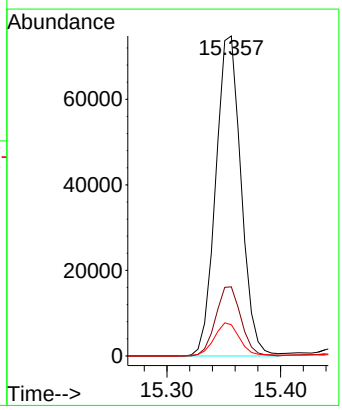


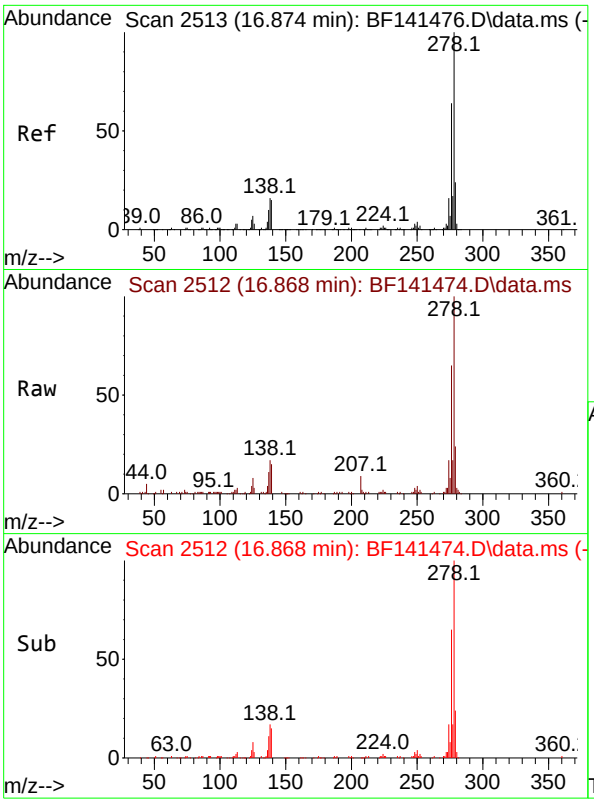


#90
Benzo(a)pyrene
Concen: 9.885 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 115948

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.8	7.4	11.2

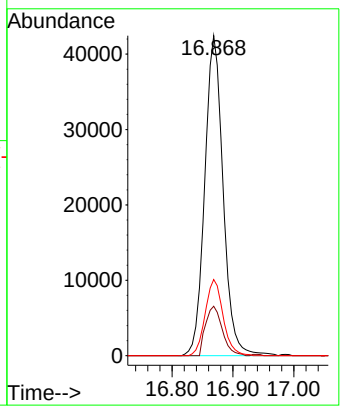




#91
Dibenzo(a,h)anthracene
Concen: 8.271 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:278 Resp: 8940

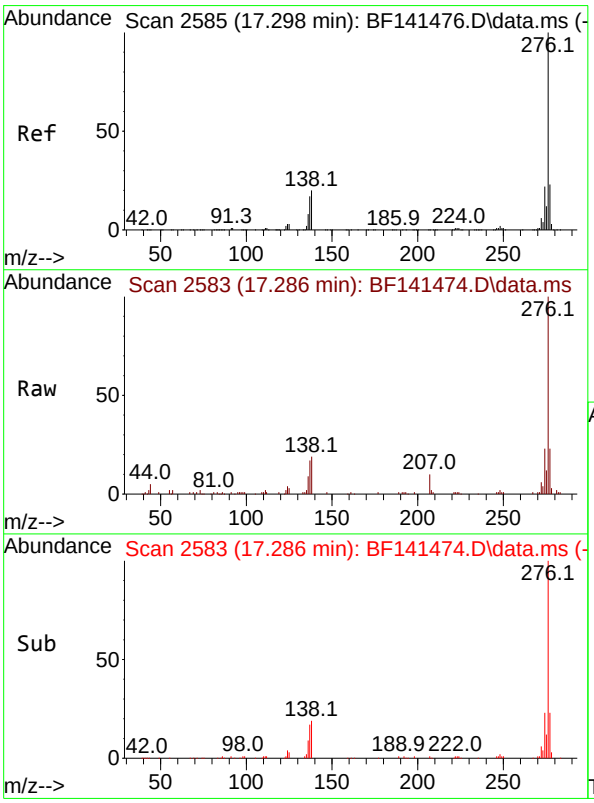
Ion	Ratio	Lower	Upper
278	100		
139	15.4	11.8	17.6
279	23.8	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

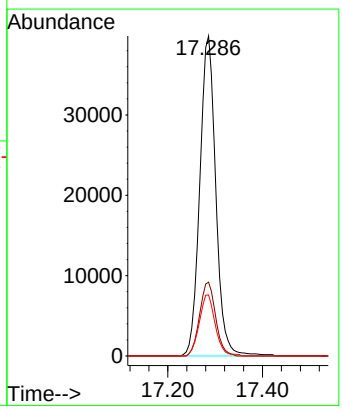
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#92
Benzo(g,h,i)perylene
Concen: 8.243 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:276 Resp: 93242

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	19.0	15.9	23.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

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

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	86149	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	348017	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193091	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	333651	20.000	ng	0.00
76) Chrysene-d12	13.957	240	251741	20.000	ng	0.00
86) Perylene-d12	15.416	264	191435	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	235106	42.785	ng	0.00
7) Phenol-d6	6.422	99	293602	42.273	ng	-0.02
23) Nitrobenzene-d5	7.351	82	275773	41.331	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	80912	41.714	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	534841	42.674	ng	0.00
79) Terphenyl-d14	12.898	244	609819	40.894	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	45027	20.359	ng	98
3) Pyridine	3.211	79	112903	21.453	ng	96
4) n-Nitrosodimethylamine	3.152	42	70658	20.276	ng	98
6) Aniline	6.446	93	142156	21.820	ng	97
8) 2-Chlorophenol	6.575	128	124573	20.980	ng	98
9) Benzaldehyde	6.340	77	84531	22.903	ng	98
10) Phenol	6.440	94	156515	21.652	ng	96
11) bis(2-Chloroethyl)ether	6.522	93	111675	20.568	ng	98
12) 1,3-Dichlorobenzene	6.728	146	133906	21.362	ng	99
13) 1,4-Dichlorobenzene	6.804	146	135357	21.134	ng	99
14) 1,2-Dichlorobenzene	6.957	146	126931	21.354	ng	99
15) Benzyl Alcohol	6.928	79	113901	21.386	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	199281	21.441	ng	99
17) 2-Methylphenol	7.046	107	96607	20.792	ng	99
18) Hexachloroethane	7.298	117	50745	21.409	ng	99
19) n-Nitroso-di-n-propyla...	7.199	70	89512	21.546	ng	99
20) 3+4-Methylphenols	7.199	107	125707	21.287	ng	91
22) Acetophenone	7.199	105	181333	20.946	ng	100
24) Nitrobenzene	7.369	77	133285	20.485	ng	99
25) Isophorone	7.604	82	220291	20.706	ng	99
26) 2-Nitrophenol	7.687	139	66195	20.449	ng	98
27) 2,4-Dimethylphenol	7.728	122	76751	20.296	ng	97
28) bis(2-Chloroethoxy)met...	7.822	93	142151	20.852	ng	99
29) 2,4-Dichlorophenol	7.934	162	108456	21.227	ng	97
30) 1,2,4-Trichlorobenzene	8.010	180	115050	20.678	ng	100
31) Naphthalene	8.093	128	381547	21.062	ng	99
32) Benzoic acid	7.828	122	75462	19.212	ng	99
33) 4-Chloroaniline	8.146	127	132911	21.014	ng	98
34) Hexachlorobutadiene	8.210	225	69492	20.804	ng	98
35) Caprolactam	8.498	113	32746	21.050	ng	97
36) 4-Chloro-3-methylphenol	8.628	107	119021	21.029	ng	99
37) 2-Methylnaphthalene	8.781	142	250365	21.238	ng	98
38) 1-Methylnaphthalene	8.881	142	240408	21.056	ng	99
40) 1,2,4,5-Tetrachloroben...	8.945	216	115936	20.753	ng	99
41) Hexachlorocyclopentadiene	8.934	237	34729	18.691	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	75161	20.817	ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	83112	21.240	ng	97
46) 1,1'-Biphenyl	9.245	154	315040	21.045	ng	99
47) 2-Chloronaphthalene	9.269	162	233789	21.119	ng	99
48) 2-Nitroaniline	9.369	65	75990	20.455	ng	99
49) Acenaphthylene	9.687	152	345829	21.004	ng	99
50) Dimethylphthalate	9.545	163	271920	20.744	ng	100
51) 2,6-Dinitrotoluene	9.610	165	60700	21.182	ng	98
52) Acenaphthene	9.857	154	229442m	20.728	ng	
53) 3-Nitroaniline	9.781	138	64626	20.954	ng	96
54) 2,4-Dinitrophenol	9.887	184	32186	18.898	ng	98
55) Dibenzofuran	10.028	168	342620	21.087	ng	100
56) 4-Nitrophenol	9.951	139	47721	20.843	ng	96
57) 2,4-Dinitrotoluene	10.016	165	79865	20.936	ng	95
58) Fluorene	10.375	166	265810	21.159	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	69328	20.579	ng	100
60) Diethylphthalate	10.245	149	270018	20.936	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	127216	21.049	ng	97
62) 4-Nitroaniline	10.387	138	64262	20.519	ng	98
63) Azobenzene	10.528	77	267372	20.853	ng	98
65) 4,6-Dinitro-2-methylph...	10.422	198	46877	20.226	ng	99
66) n-Nitrosodiphenylamine	10.487	169	224776	21.045	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	78167	20.962	ng	97
68) Hexachlorobenzene	10.922	284	80301	20.913	ng	97
69) Atrazine	11.010	200	71359	22.271	ng	97
70) Pentachlorophenol	11.122	266	50539	20.584	ng	98
71) Phenanthrene	11.339	178	387256	21.085	ng	99
72) Anthracene	11.386	178	386414	20.930	ng	100
73) Carbazole	11.545	167	358987	21.610	ng	99
74) Di-n-butylphthalate	11.875	149	408041	21.273	ng	100
75) Fluoranthene	12.528	202	414712	21.298	ng	99
77) Benzidine	12.651	184	84013	15.132	ng	98
78) Pyrene	12.757	202	432216	20.169	ng	99
80) Butylbenzylphthalate	13.375	149	152184	20.502	ng	99
81) Benzo(a)anthracene	13.945	228	339877	20.310	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	102367	21.355	ng	98
83) Chrysene	13.980	228	330823	21.411	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	172352	20.588	ng	99
85) Di-n-octyl phthalate	14.563	149	229060	19.180	ng	99
87) Indeno(1,2,3-cd)pyrene	16.857	276	227105	19.200	ng	99
88) Benzo(b)fluoranthene	14.998	252	267695	20.826	ng	100
89) Benzo(k)fluoranthene	15.022	252	238695	21.747	ng	97
90) Benzo(a)pyrene	15.357	252	213510	20.528	ng	100
91) Dibenzo(a,h)anthracene	16.868	278	185740	19.379	ng	98
92) Benzo(g,h,i)perylene	17.286	276	191595	19.103	ng	99

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

ICAL Form

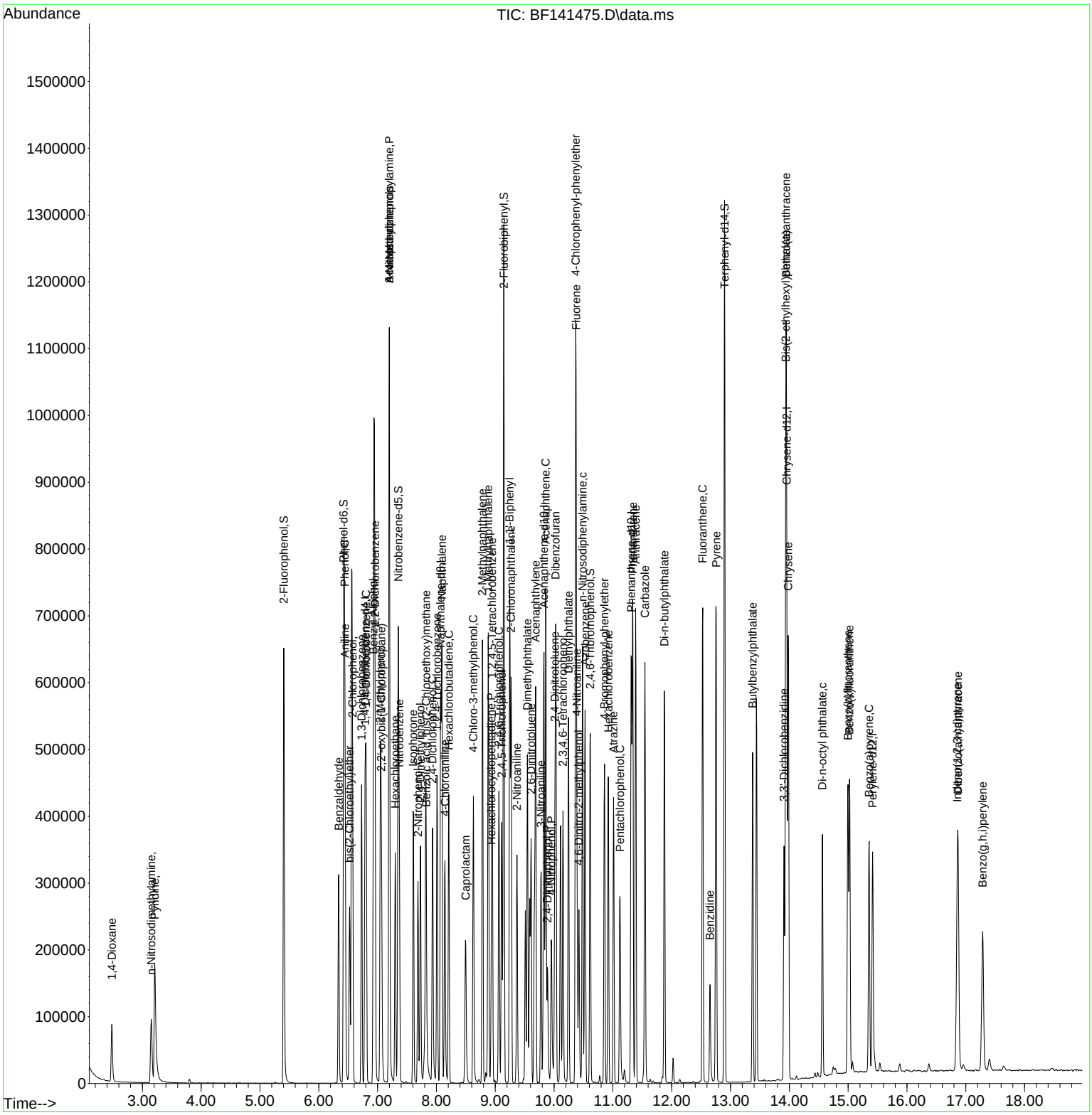
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

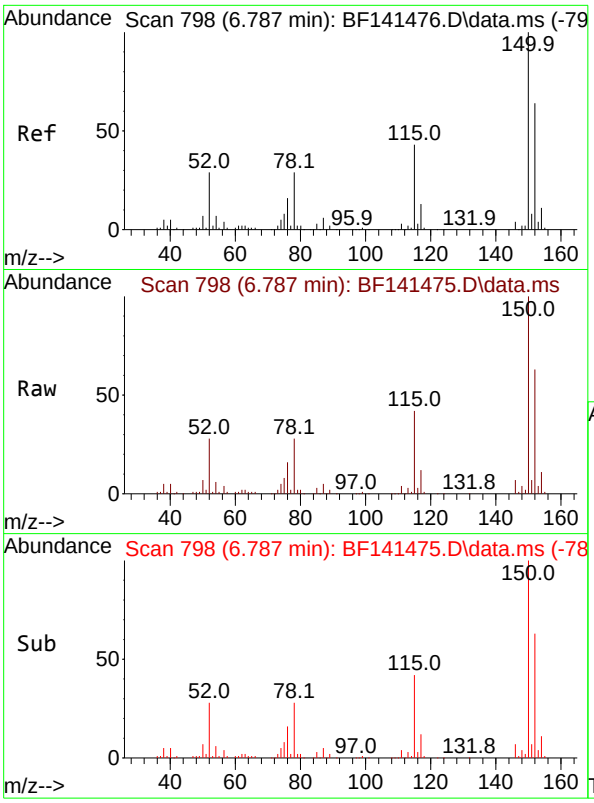
Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

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

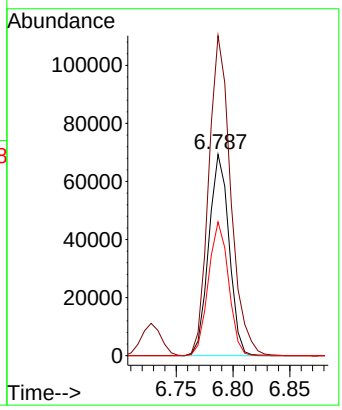




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:152 Resp: 8614

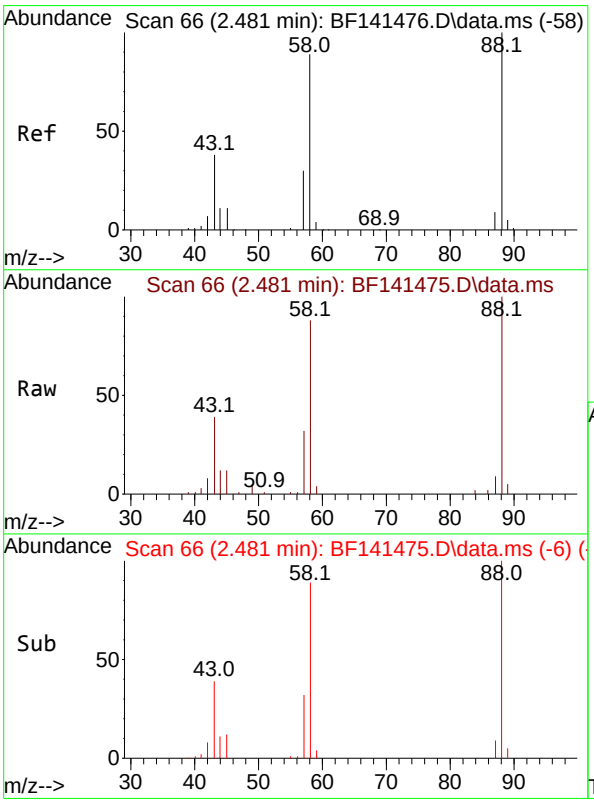
Ion	Ratio	Lower	Upper
152	100		
150	159.0	125.0	187.4
115	66.4	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

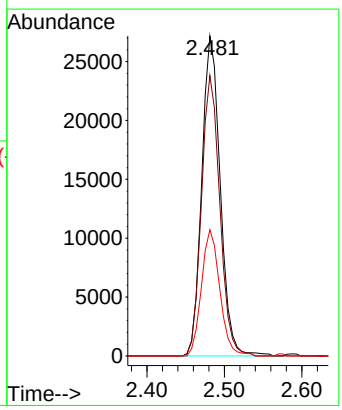
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

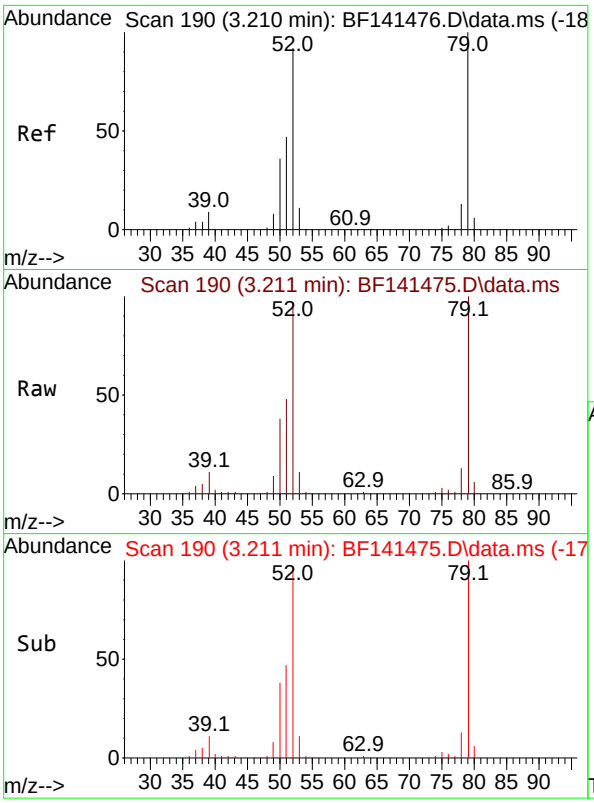


#2
1,4-Dioxane
Concen: 20.359 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 88 Resp: 45027

Ion	Ratio	Lower	Upper
88	100		
58	87.1	71.1	106.7
43	39.2	30.6	46.0

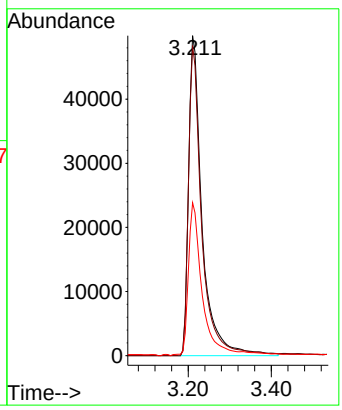




#3
Pyridine
Concen: 21.453 ng
RT: 3.211 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 79 Resp: 11290

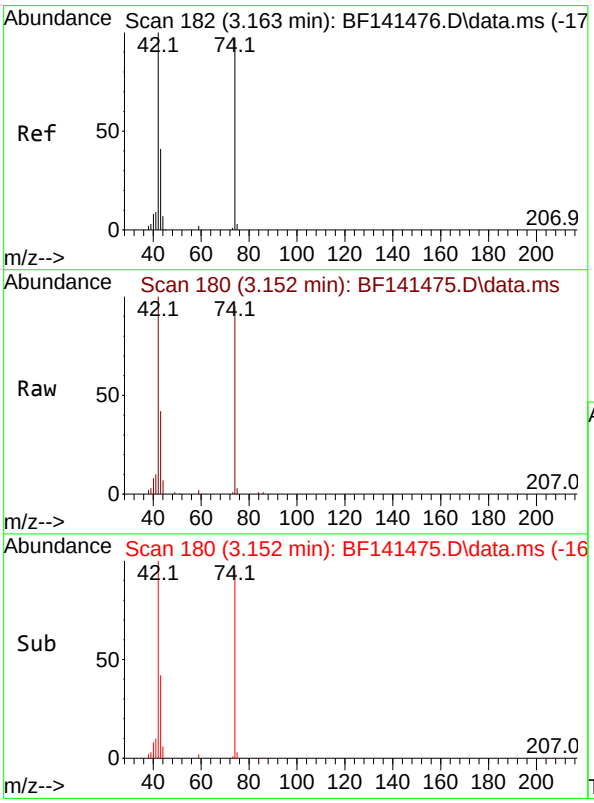
Ion	Ratio	Lower	Upper
79	100		
52	96.9	73.7	110.5
51	47.8	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

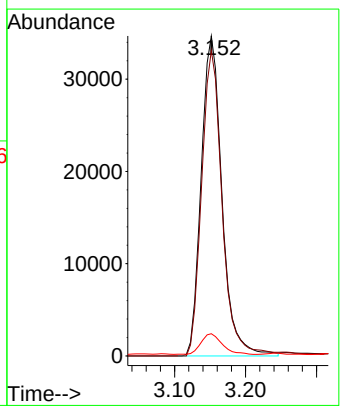
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

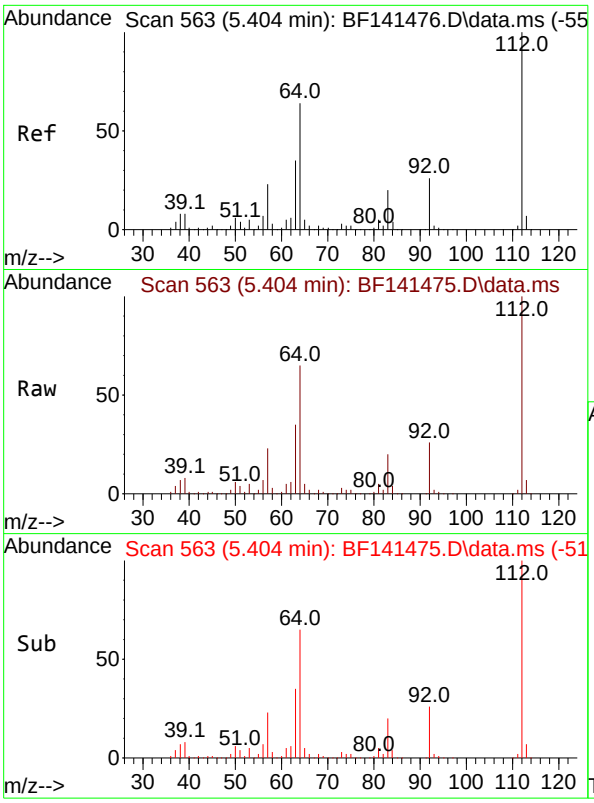


#4
n-Nitrosodimethylamine
Concen: 20.276 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 42 Resp: 70658

Ion	Ratio	Lower	Upper
42	100		
74	95.4	78.0	117.0
44	7.0	5.4	8.2

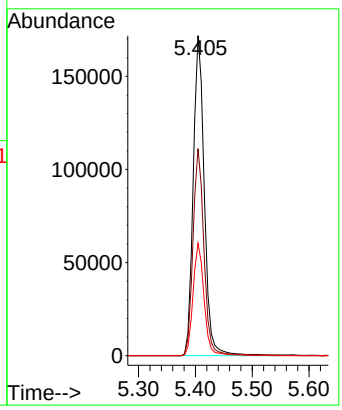




#5
2-Fluorophenol
Concen: 42.785 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:112 Resp: 23510

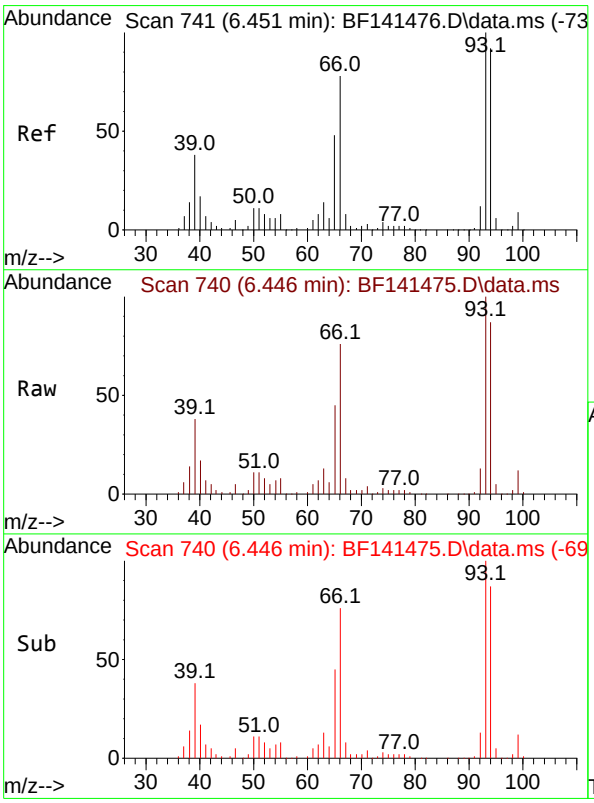
Ion	Ratio	Lower	Upper
112	100		
64	64.7	51.1	76.7
63	35.1	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

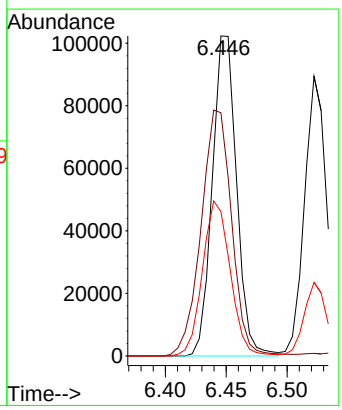
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

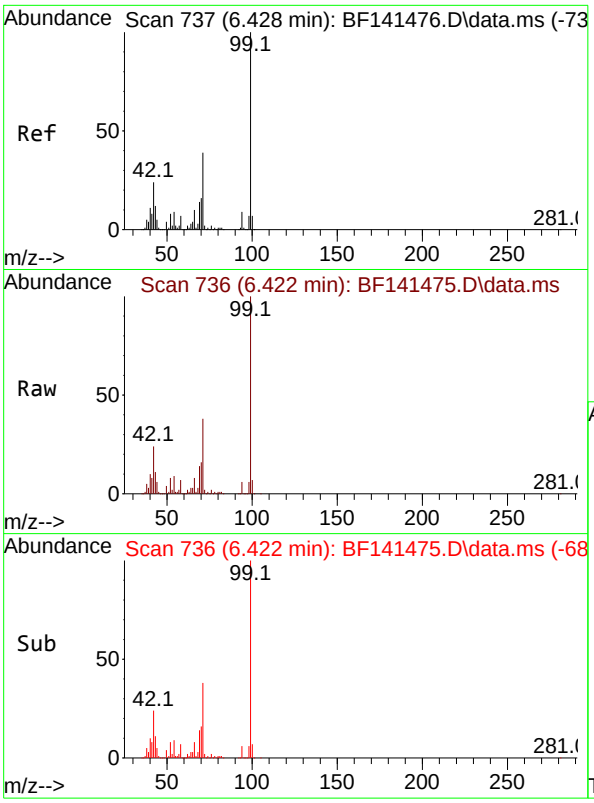


#6
Aniline
Concen: 21.820 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142156

Ion	Ratio	Lower	Upper
93	100		
66	76.0	62.6	94.0
65	45.1	38.3	57.5





#7
Phenol-d6
Concen: 42.273 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

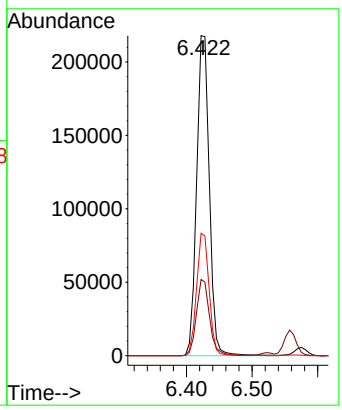
Tgt Ion: 99 Resp: 29360

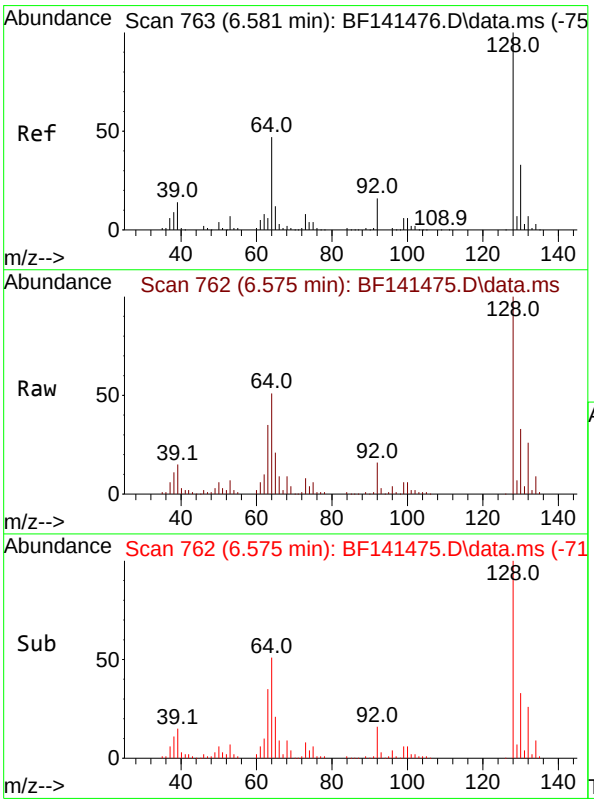
Ion	Ratio	Lower	Upper
99	100		
42	23.8	19.1	28.7
71	38.2	31.1	46.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

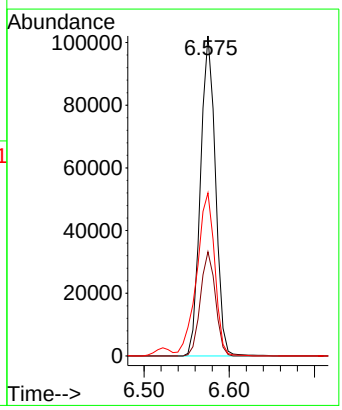


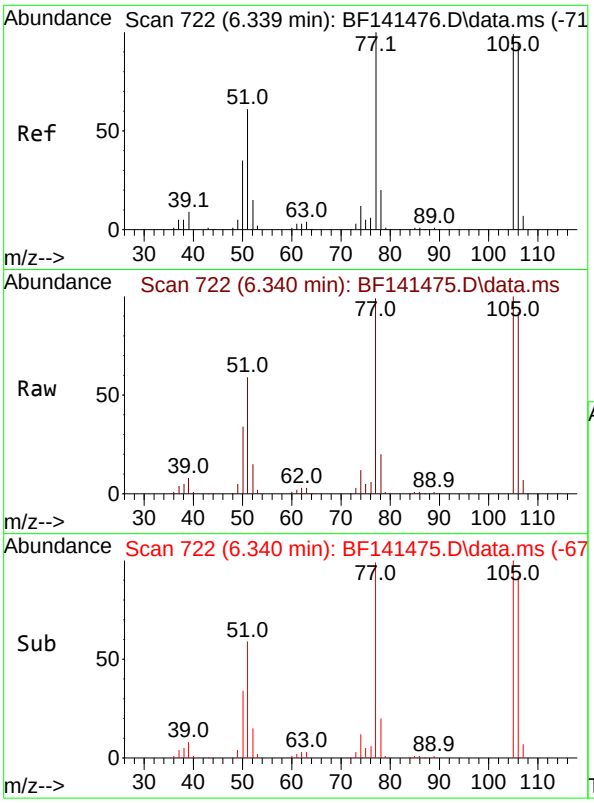


#8
2-Chlorophenol
Concen: 20.980 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:128 Resp: 124573

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.7	52.7
64	50.9	28.3	68.3

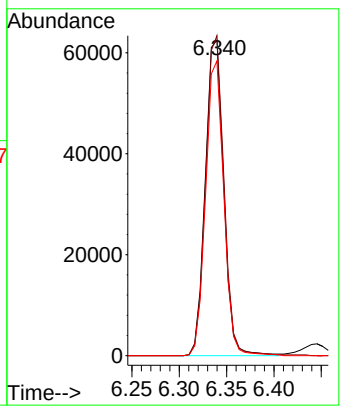




#9
Benzaldehyde
Concen: 22.903 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 77 Resp: 8453

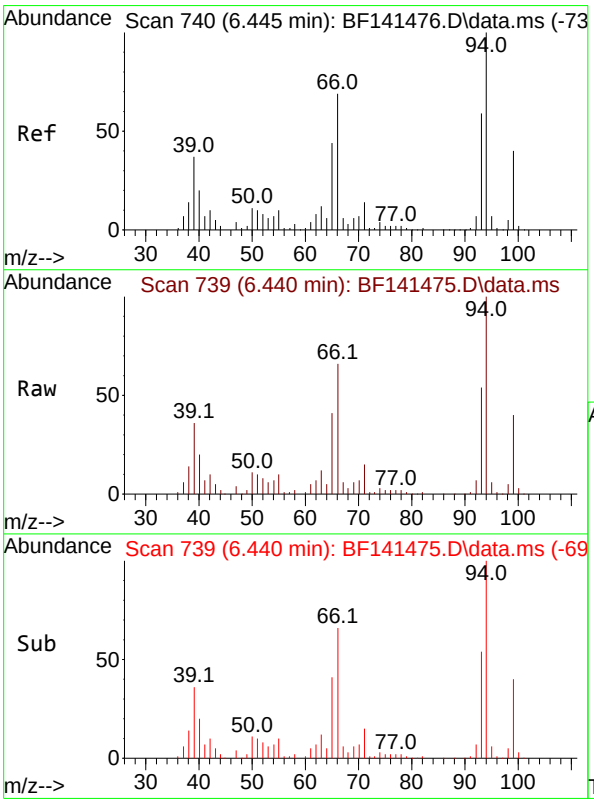
Ion	Ratio	Lower	Upper
77	100		
105	101.4	79.4	119.4
106	93.4	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

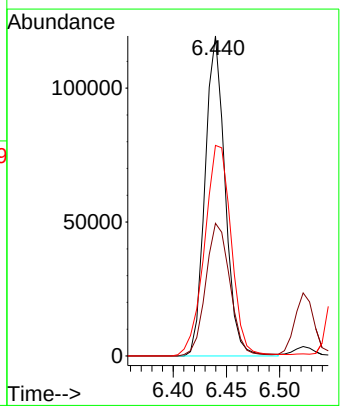
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

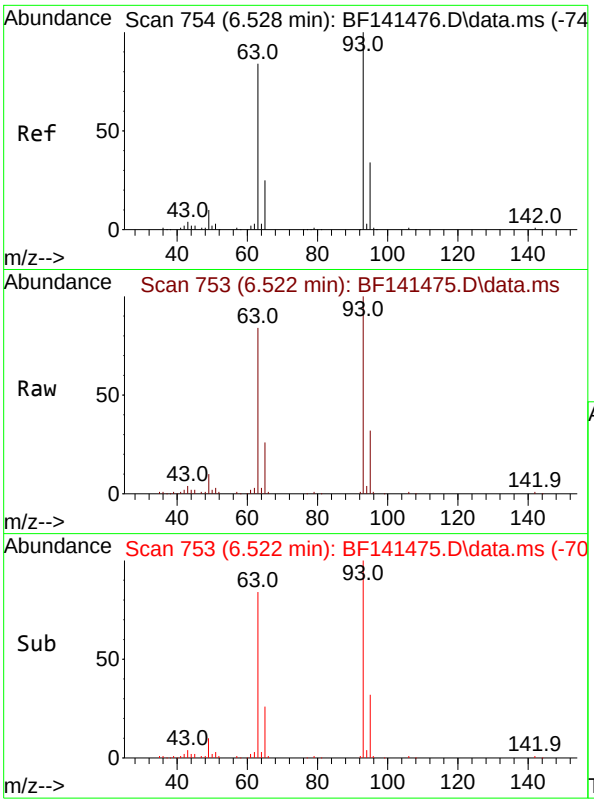


#10
Phenol
Concen: 21.652 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 94 Resp: 156515

Ion	Ratio	Lower	Upper
94	100		
65	41.5	23.7	63.7
66	65.8	49.3	89.3

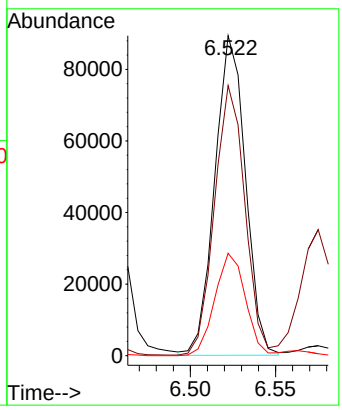




#11
bis(2-Chloroethyl)ether
Concen: 20.568 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 11167

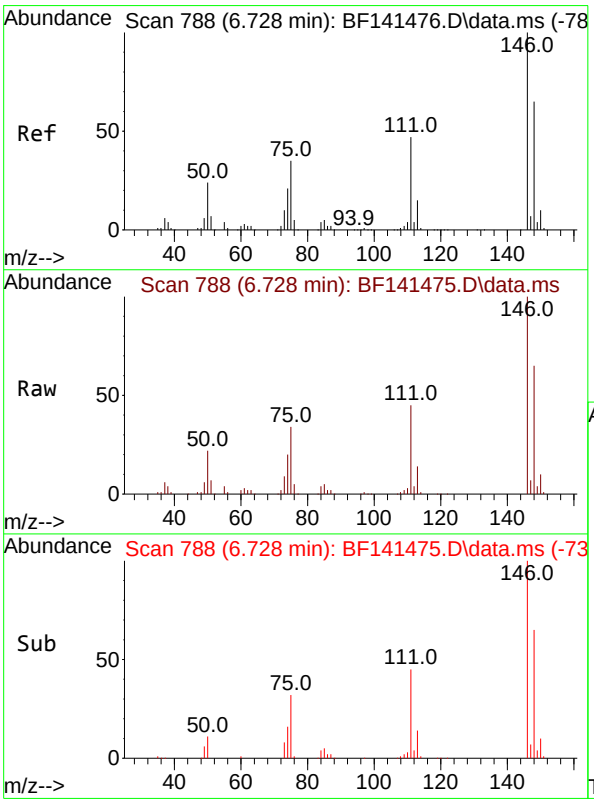
Ion	Ratio	Lower	Upper
93	100		
63	84.4	62.0	102.0
95	32.0	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

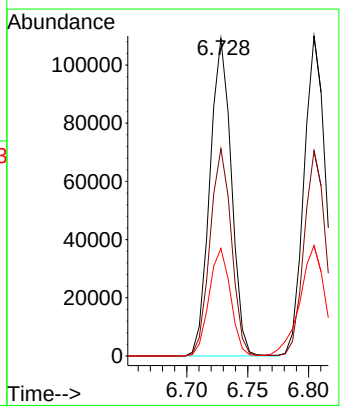
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

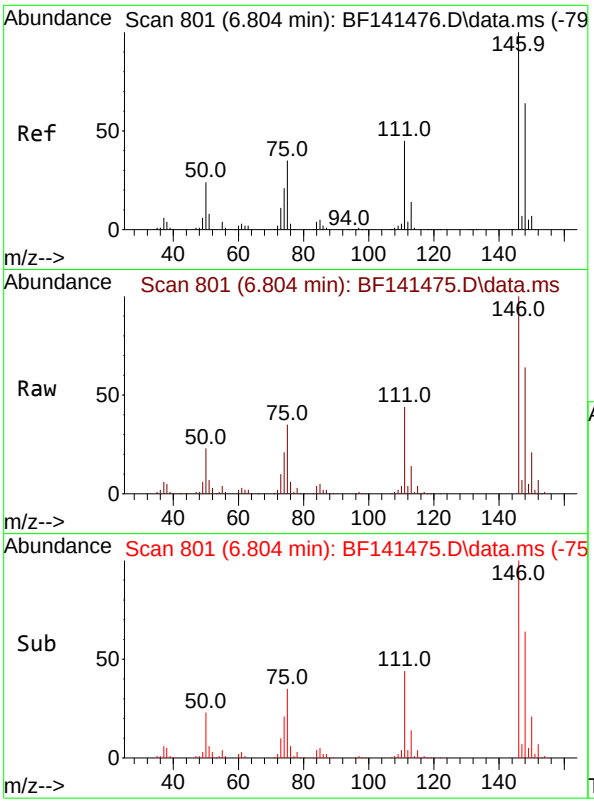


#12
1,3-Dichlorobenzene
Concen: 21.362 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 133906

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.9	77.9
75	33.8	28.2	42.2

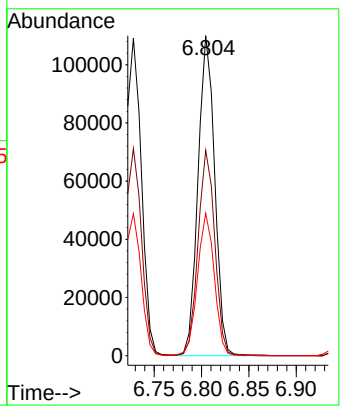




#13
1,4-Dichlorobenzene
Concen: 21.134 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 13535

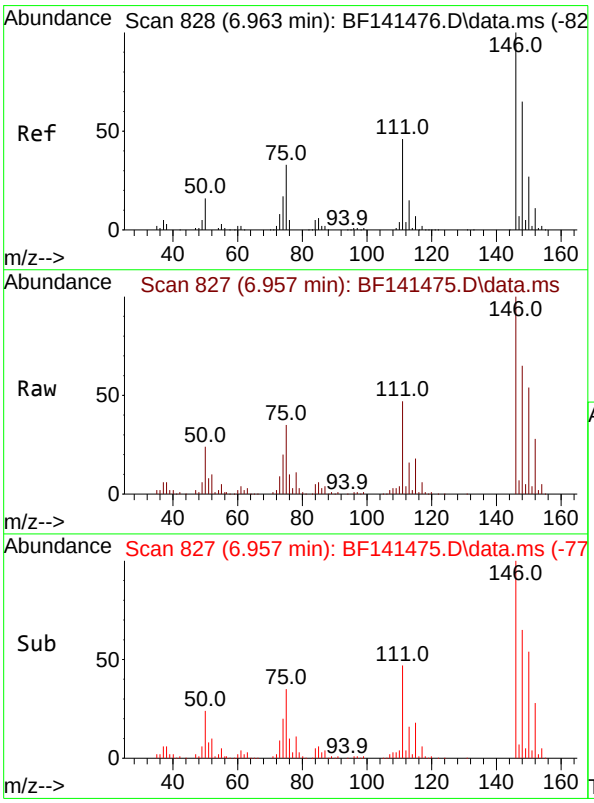
Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.9	76.3
111	44.5	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

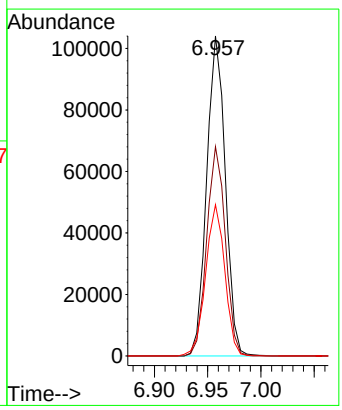
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

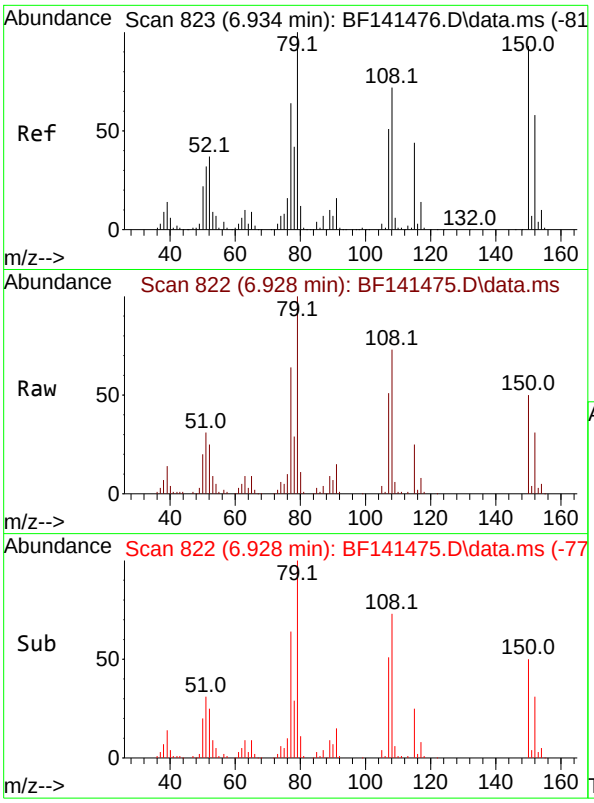


#14
1,2-Dichlorobenzene
Concen: 21.354 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 126931

Ion	Ratio	Lower	Upper
146	100		
148	65.4	51.8	77.6
111	47.3	37.0	55.4

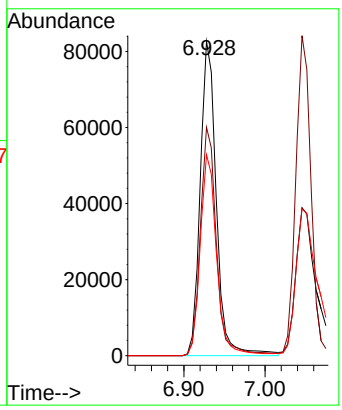




#15
Benzyl Alcohol
Concen: 21.386 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 79 Resp: 11390

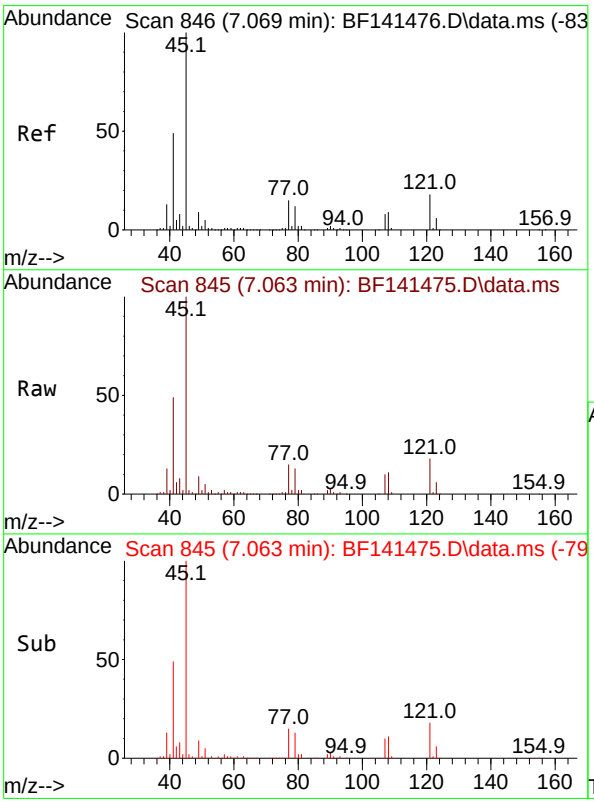
Ion	Ratio	Lower	Upper
79	100		
108	72.6	57.4	86.2
77	63.9	50.9	76.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

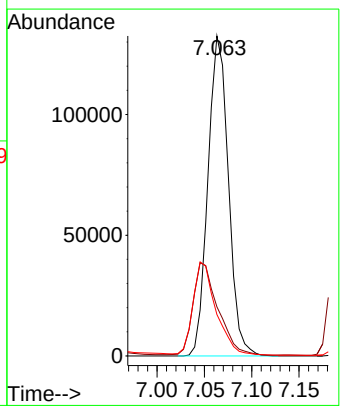
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

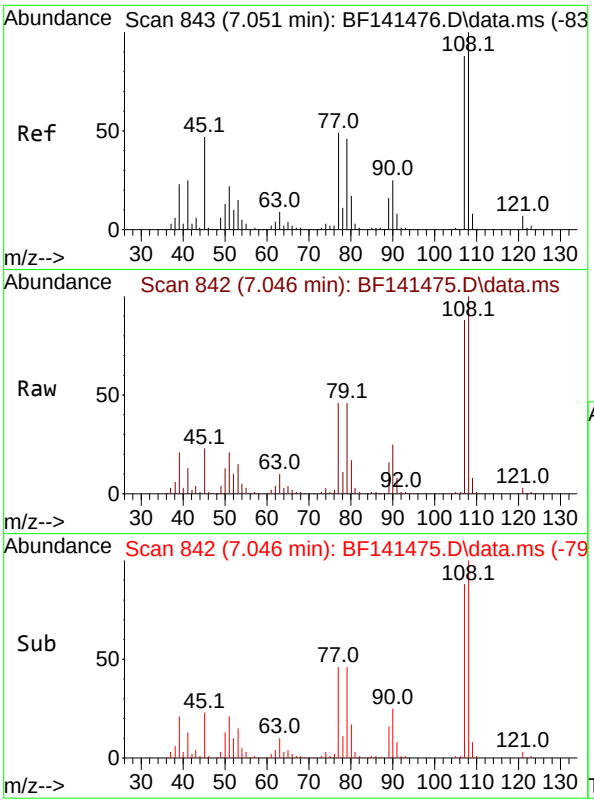


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.441 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 45 Resp: 199281

Ion	Ratio	Lower	Upper
45	100		
77	15.3	0.0	35.8
79	12.9	0.0	32.7

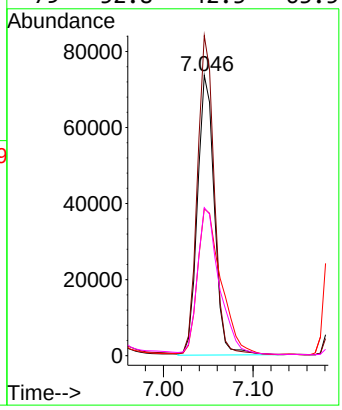




#17
2-Methylphenol
Concen: 20.792 ng
RT: 7.046 min Scan# 84
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 9660

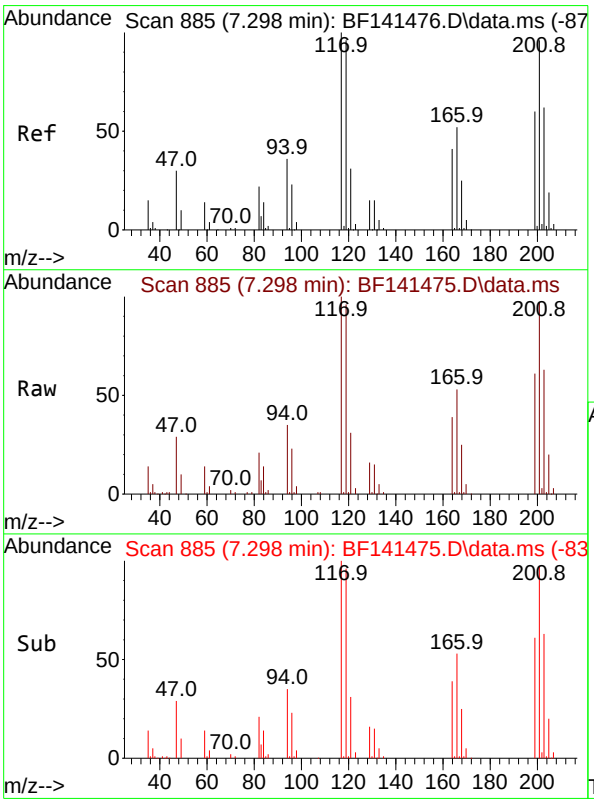
Ion	Ratio	Lower	Upper
107	100		
108	114.2	90.6	136.0
77	52.4	44.4	66.6
79	52.8	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

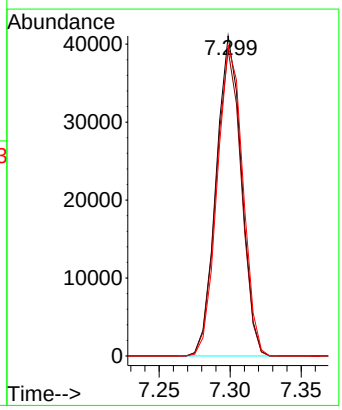
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

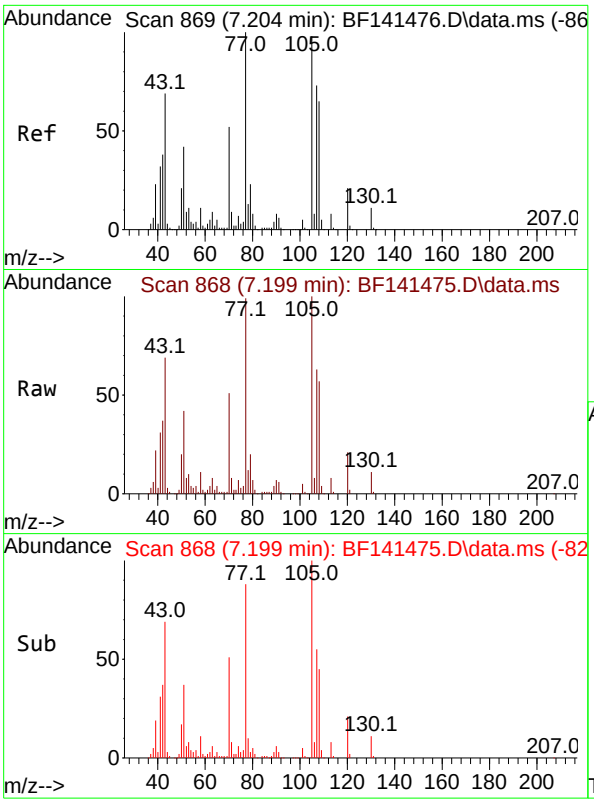


#18
Hexachloroethane
Concen: 21.409 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:117 Resp: 50745

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.5	114.7
201	97.0	76.7	115.1

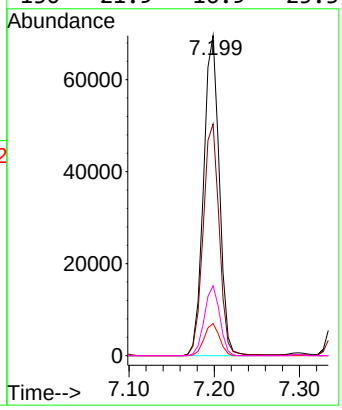




#19
n-Nitroso-di-n-propylamine
Concen: 21.546 ng
RT: 7.199 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 70 Resp: 8951

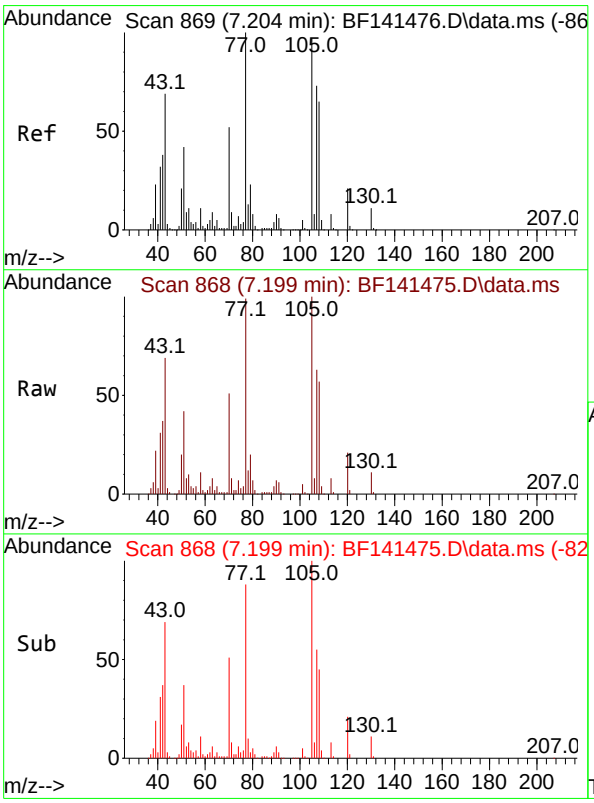
Ion	Ratio	Lower	Upper
70	100		
42	72.4	57.4	86.2
101	10.0	8.0	12.0
130	21.9	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

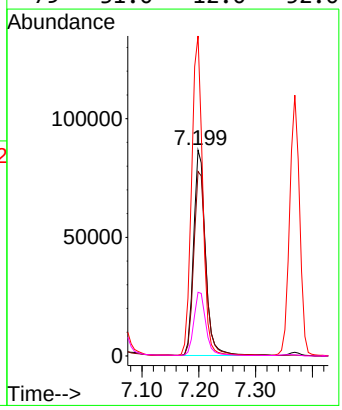
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

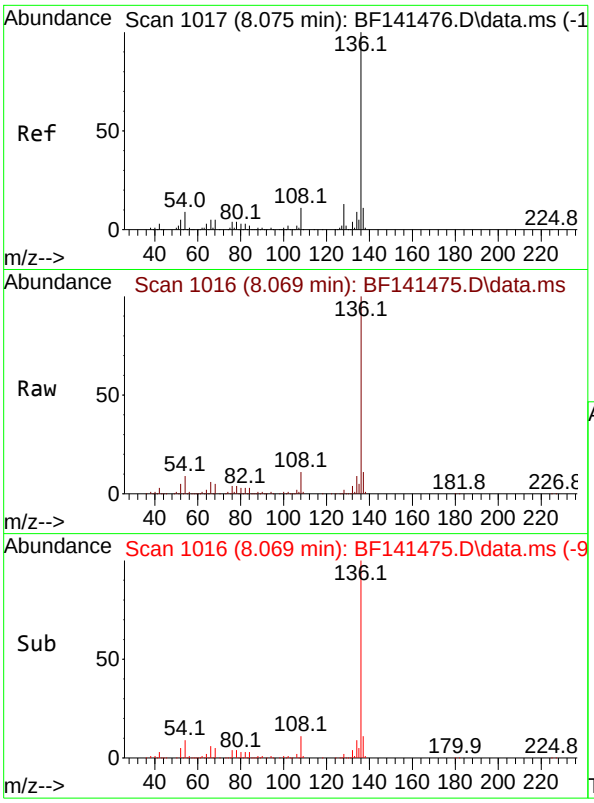


#20
3+4-Methylphenols
Concen: 21.287 ng
RT: 7.199 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 125707

Ion	Ratio	Lower	Upper
107	100		
108	89.7	68.5	108.5
77	155.6	116.5	156.5
79	31.0	12.0	52.0

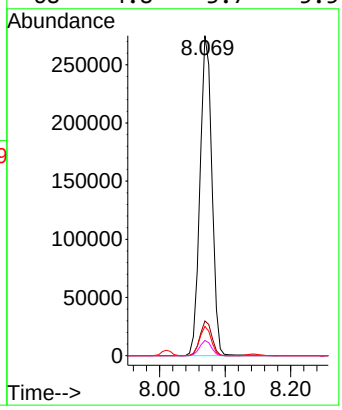




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:136 Resp: 34801

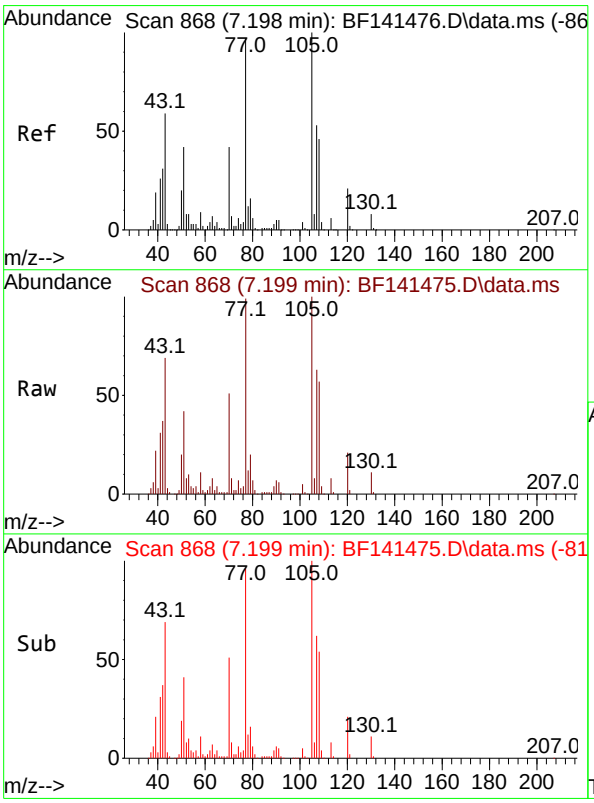
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.2	7.2	10.8
68	4.8	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

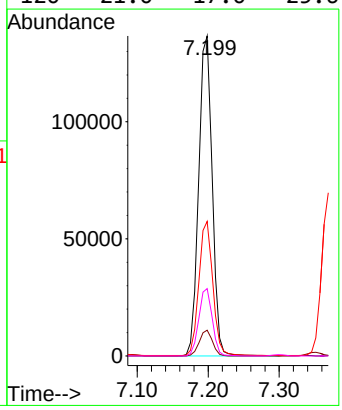
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

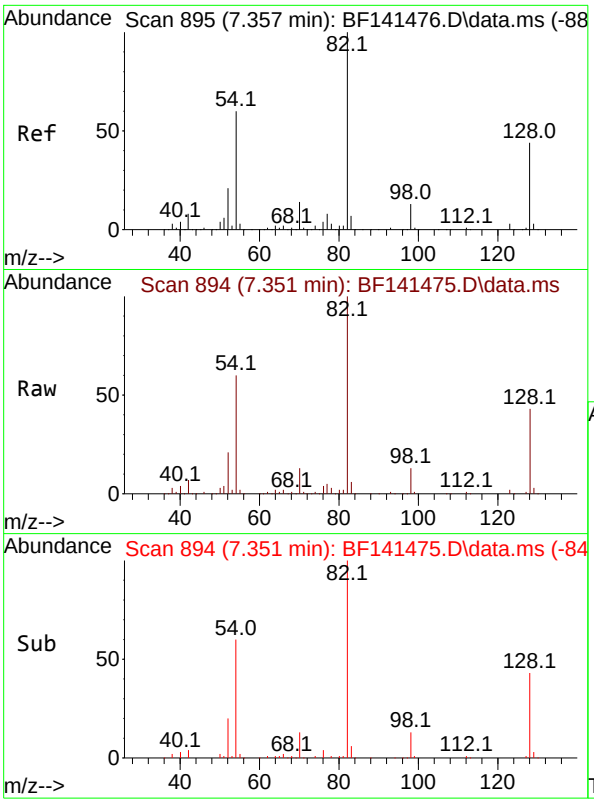


#22
Acetophenone
Concen: 20.946 ng
RT: 7.199 min Scan# 868
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:105 Resp: 181333

Ion	Ratio	Lower	Upper
105	100		
71	8.0	5.7	8.5
51	42.0	33.7	50.5
120	21.0	17.0	25.6

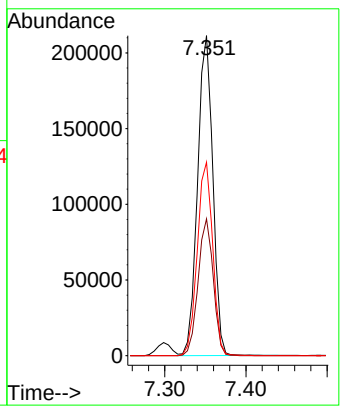




#23
Nitrobenzene-d5
Concen: 41.331 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 82 Resp: 27577

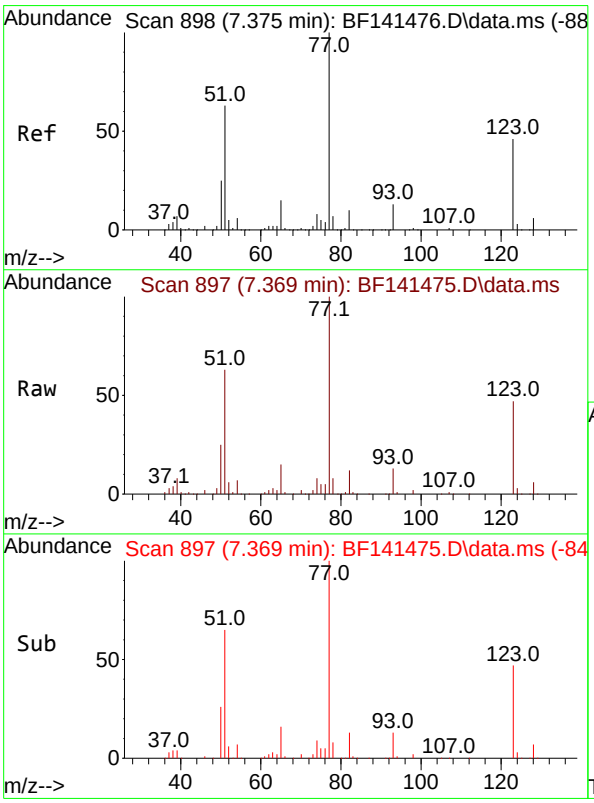
Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.8	52.2
54	60.5	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

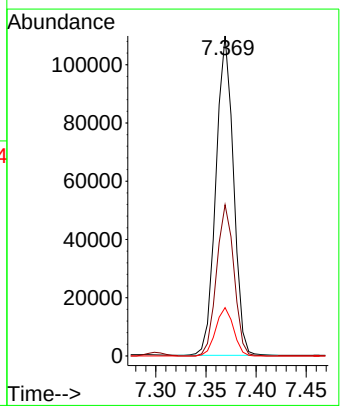
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

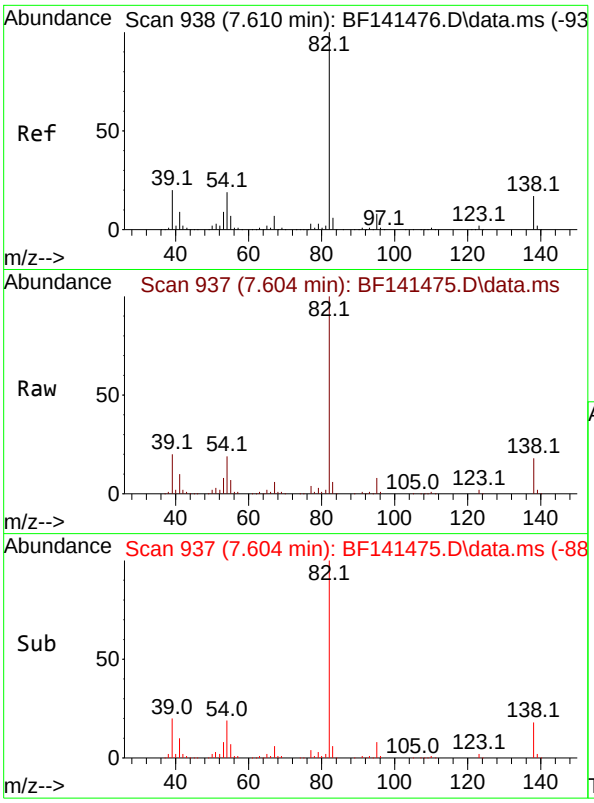


#24
Nitrobenzene
Concen: 20.485 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 77 Resp: 133285

Ion	Ratio	Lower	Upper
77	100		
123	47.3	36.9	55.3
65	15.1	11.9	17.9

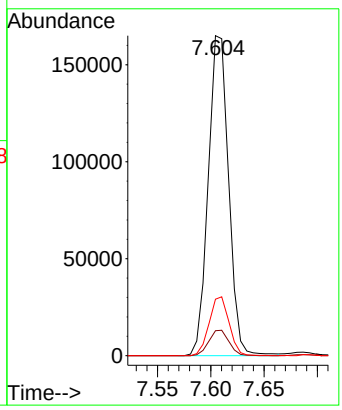




#25
Isophorone
Concen: 20.706 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 82 Resp: 22029

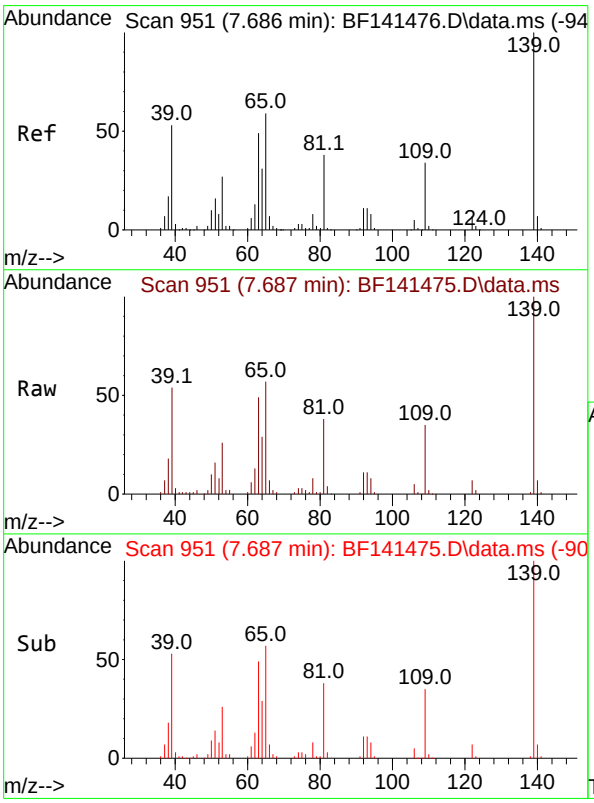
Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.6	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

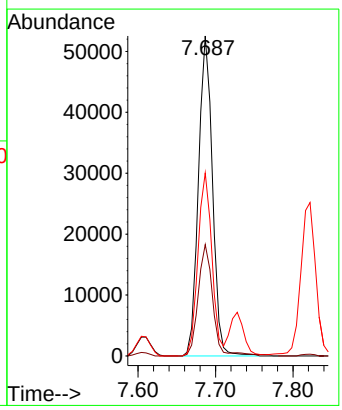
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

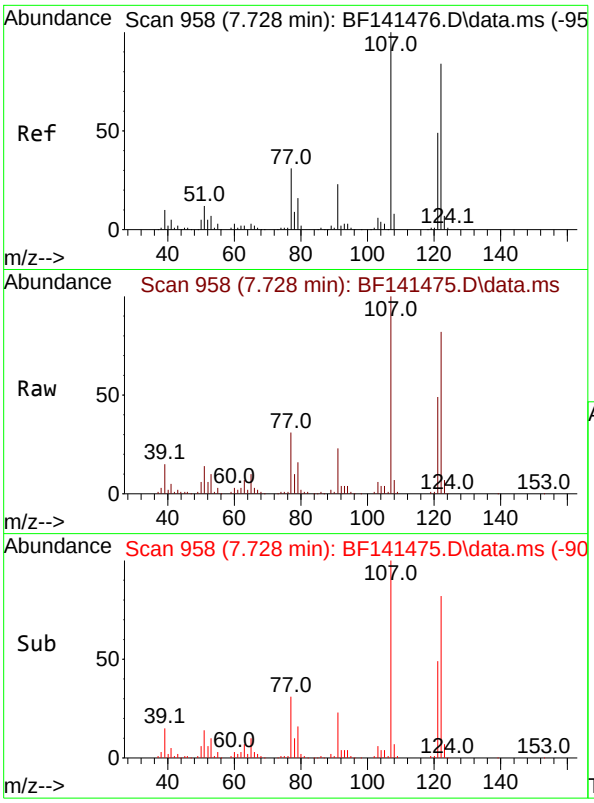


#26
2-Nitrophenol
Concen: 20.449 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 66195

Ion	Ratio	Lower	Upper
139	100		
109	34.8	27.0	40.6
65	57.2	47.1	70.7

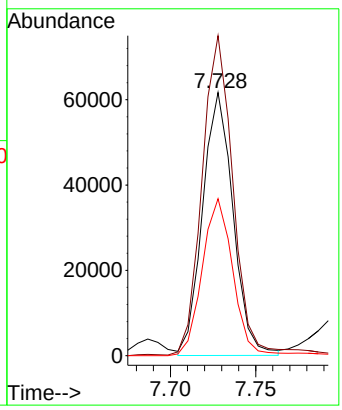




#27
2,4-Dimethylphenol
Concen: 20.296 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:122 Resp: 7675

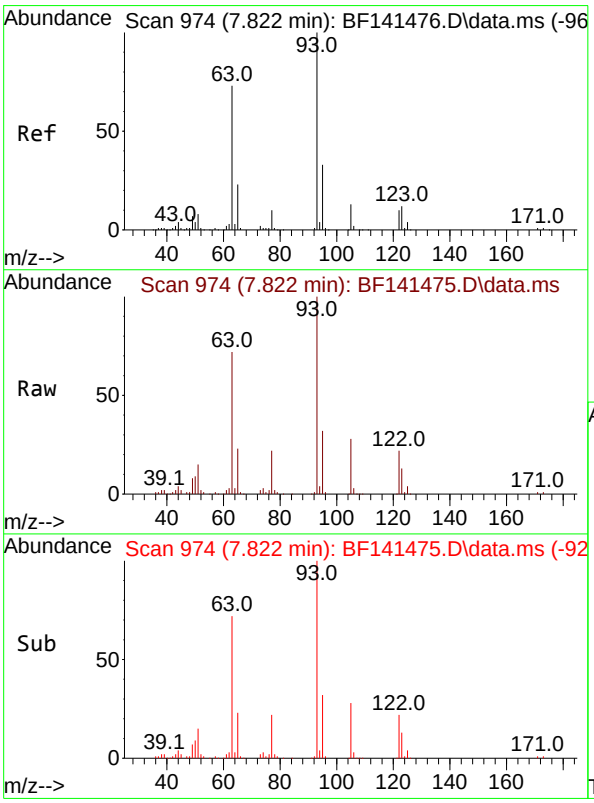
Ion	Ratio	Lower	Upper
122	100		
107	121.6	94.3	141.5
121	59.6	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

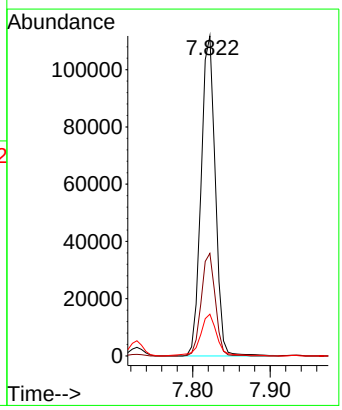
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

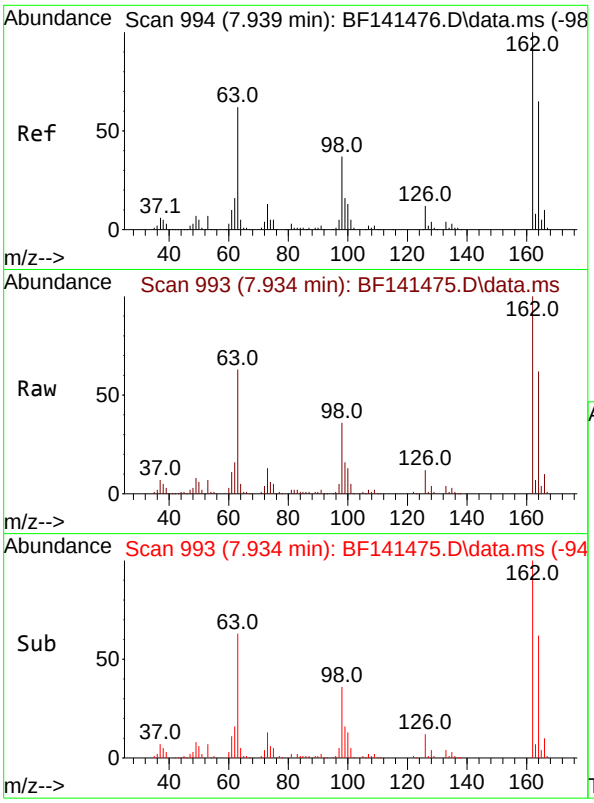


#28
bis(2-Chloroethoxy)methane
Concen: 20.852 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142151

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.1	39.1
123	13.0	9.5	14.3





#29
2,4-Dichlorophenol
Concen: 21.227 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

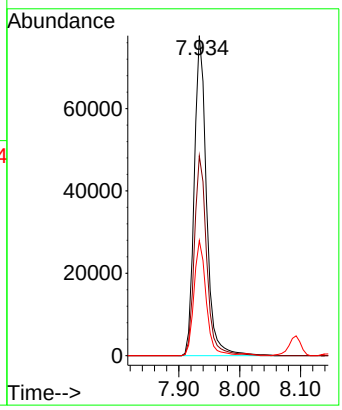
Tgt Ion:162 Resp: 10845

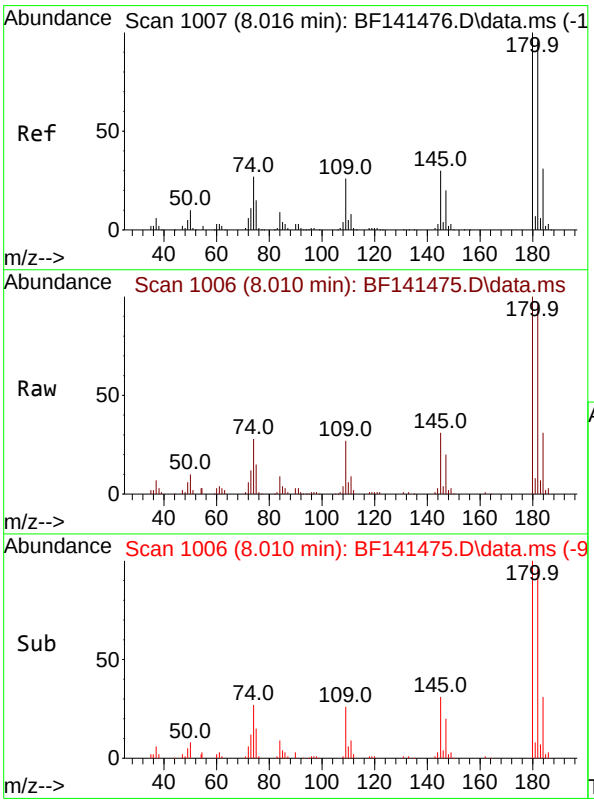
Ion	Ratio	Lower	Upper
162	100		
164	62.4	44.6	84.6
98	36.0	17.2	57.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

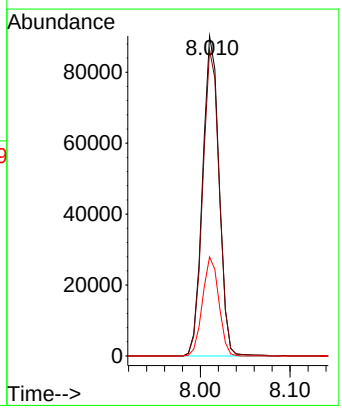


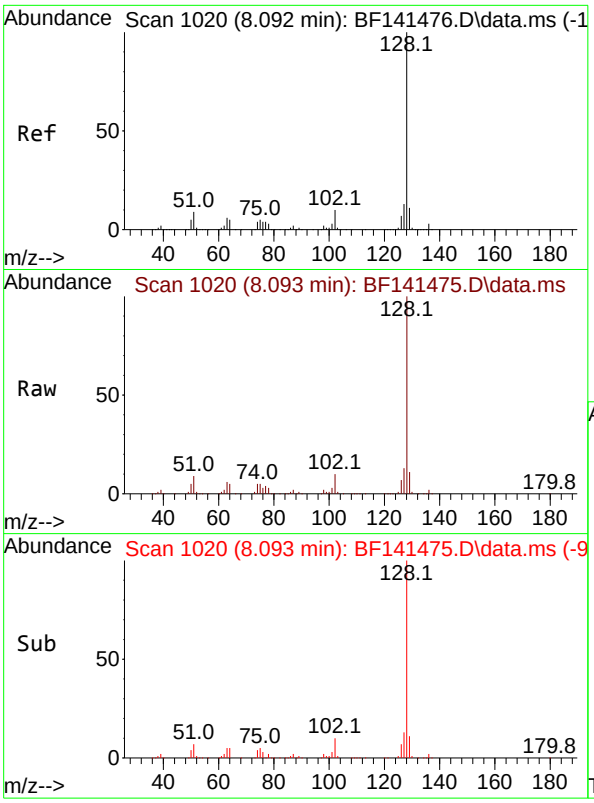


#30
1,2,4-Trichlorobenzene
Concen: 20.678 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:180 Resp: 115050

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	31.0	24.2	36.4

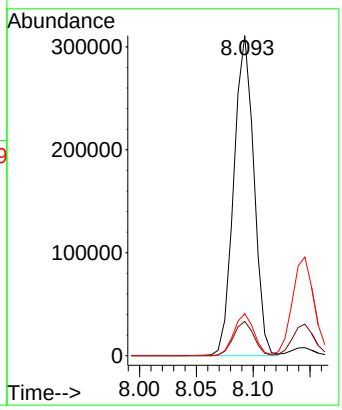




#31
Naphthalene
Concen: 21.062 ng
RT: 8.093 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:128 Resp: 38154

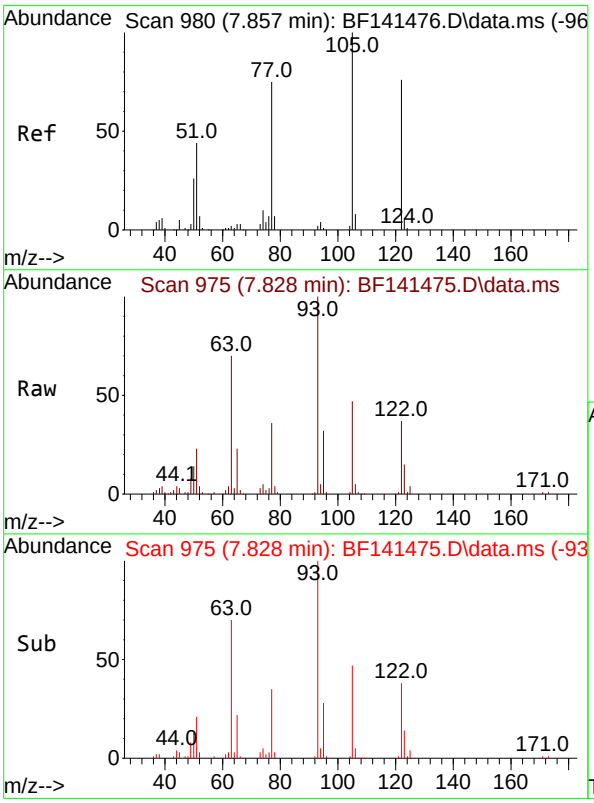
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	13.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

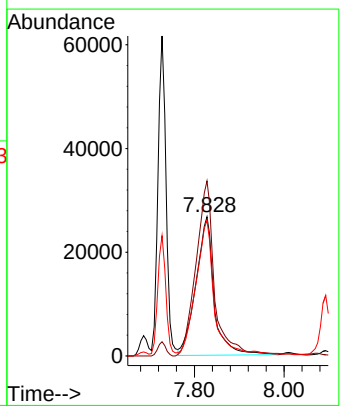
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

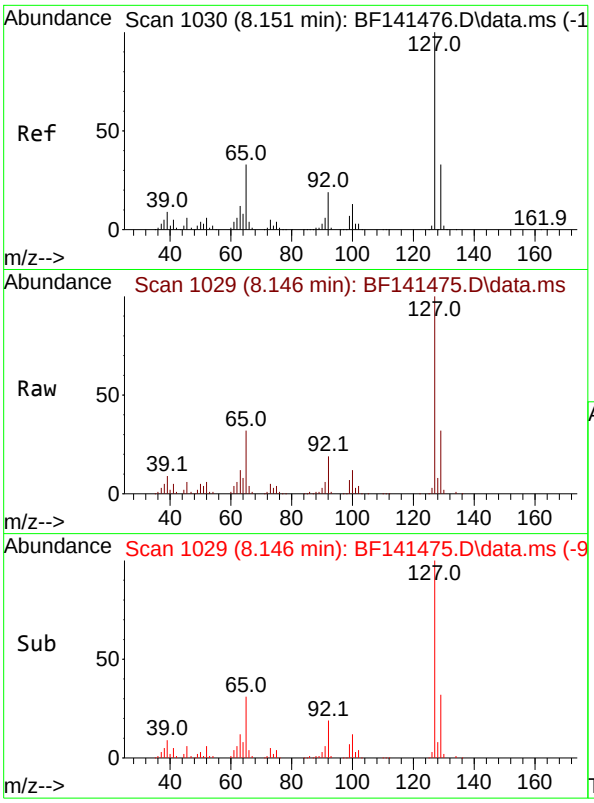


#32
Benzoic acid
Concen: 19.212 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.064 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:122 Resp: 75462

Ion	Ratio	Lower	Upper
122	100		
105	125.8	106.5	146.5
77	97.6	76.3	116.3

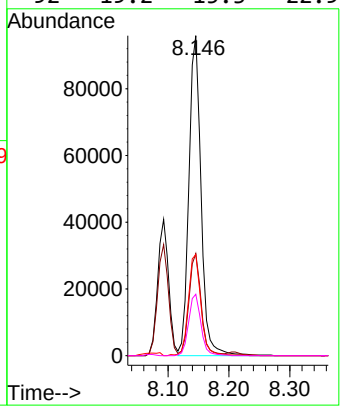




#33
4-Chloroaniline
Concen: 21.014 ng
RT: 8.146 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:127 Resp: 13291

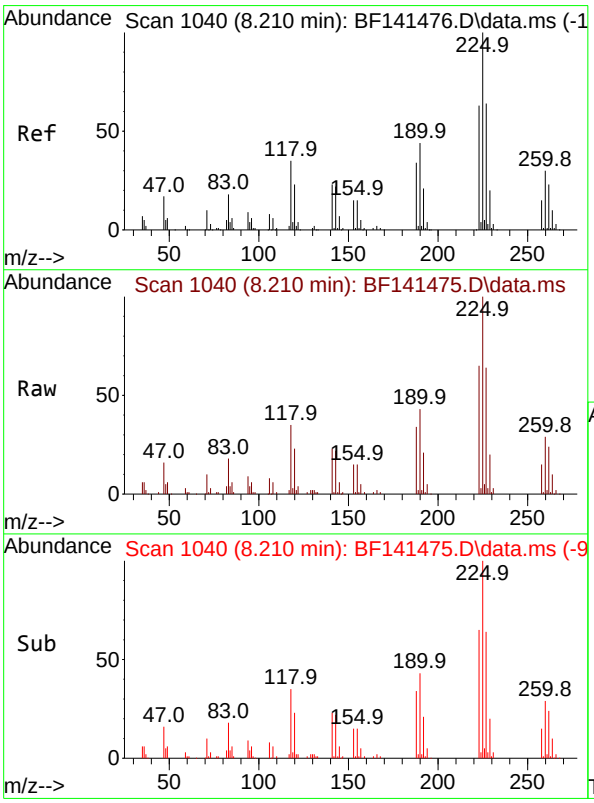
Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.5	39.7
65	31.6	26.4	39.6
92	19.2	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

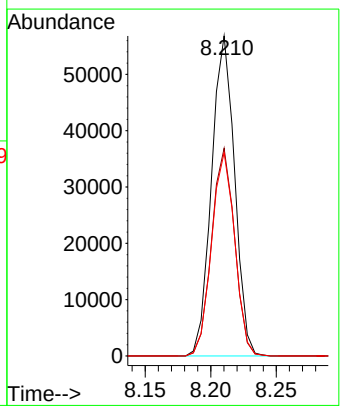
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

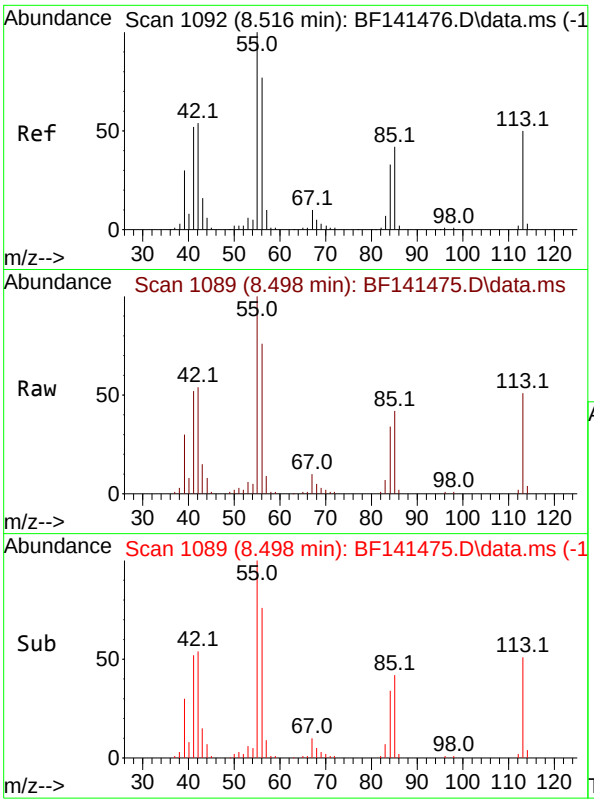


#34
Hexachlorobutadiene
Concen: 20.804 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:225 Resp: 69492

Ion	Ratio	Lower	Upper
225	100		
223	64.9	50.1	75.1
227	63.5	51.0	76.6

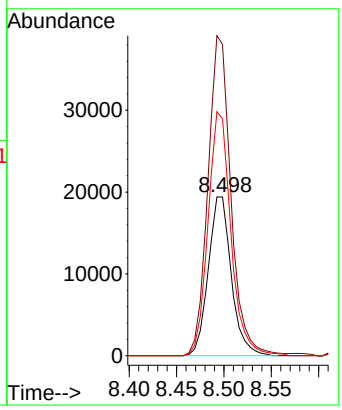




#35
Caprolactam
Concen: 21.050 ng
RT: 8.498 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:113 Resp: 3274

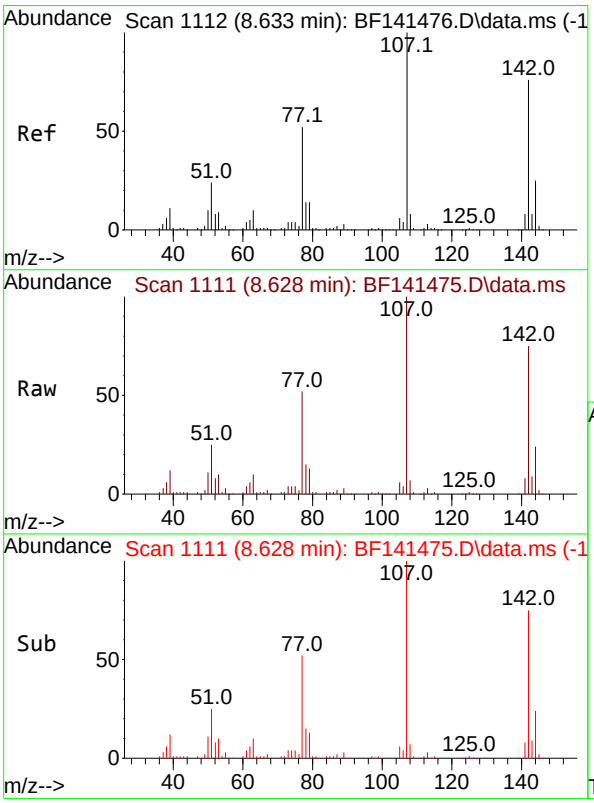
Ion	Ratio	Lower	Upper
113	100		
55	196.0	180.8	220.8
56	149.2	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

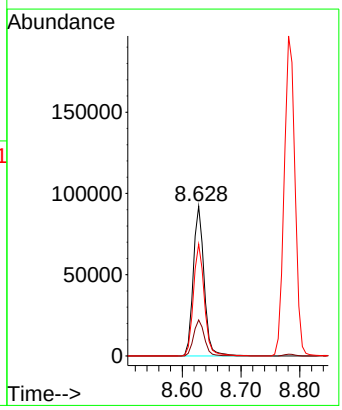
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

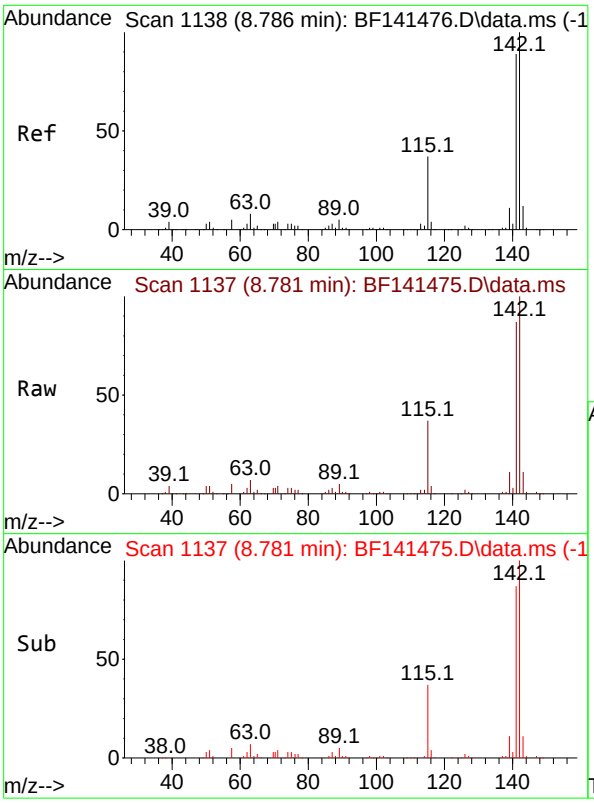


#36
4-Chloro-3-methylphenol
Concen: 21.029 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 119021

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.7	29.5
142	74.7	60.8	91.2

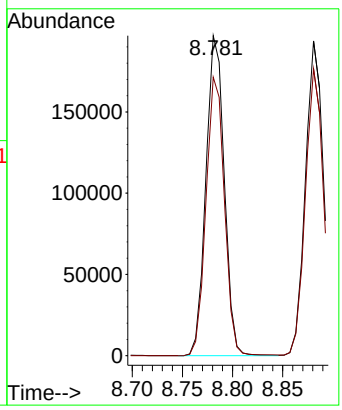




#37
2-Methylnaphthalene
Concen: 21.238 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:142 Resp: 25036

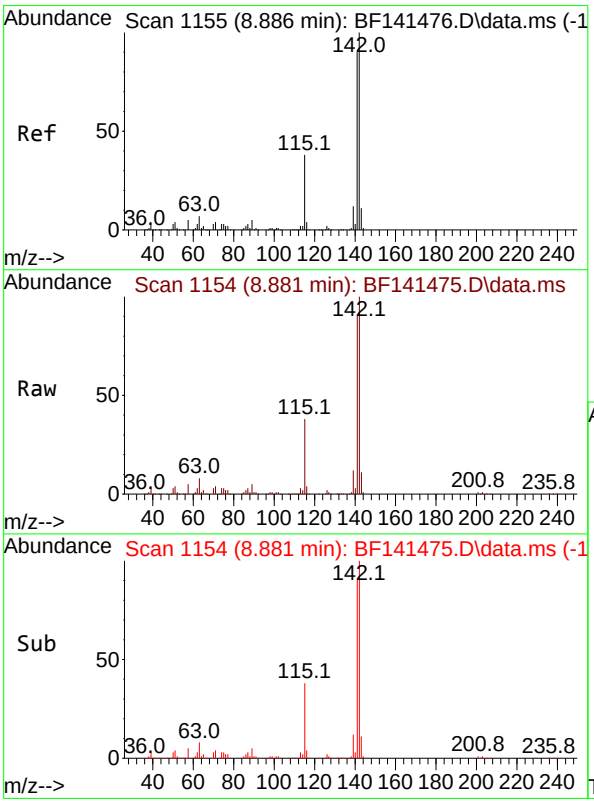
Ion	Ratio	Lower	Upper
142	100		
141	87.0	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

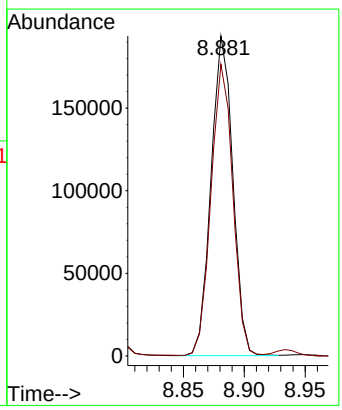
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

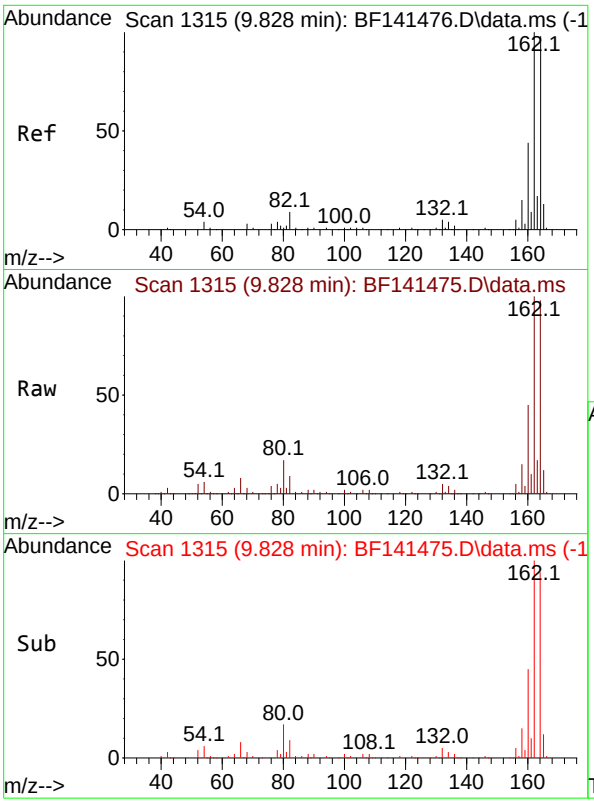


#38
1-Methylnaphthalene
Concen: 21.056 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:142 Resp: 240408

Ion	Ratio	Lower	Upper
142	100		
141	91.1	72.1	108.1

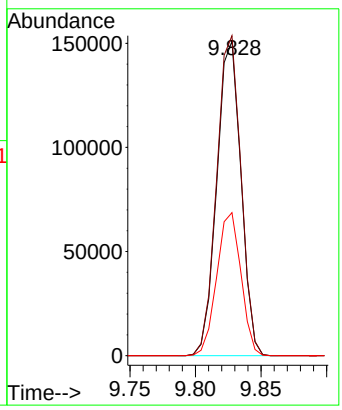




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:164 Resp: 19309

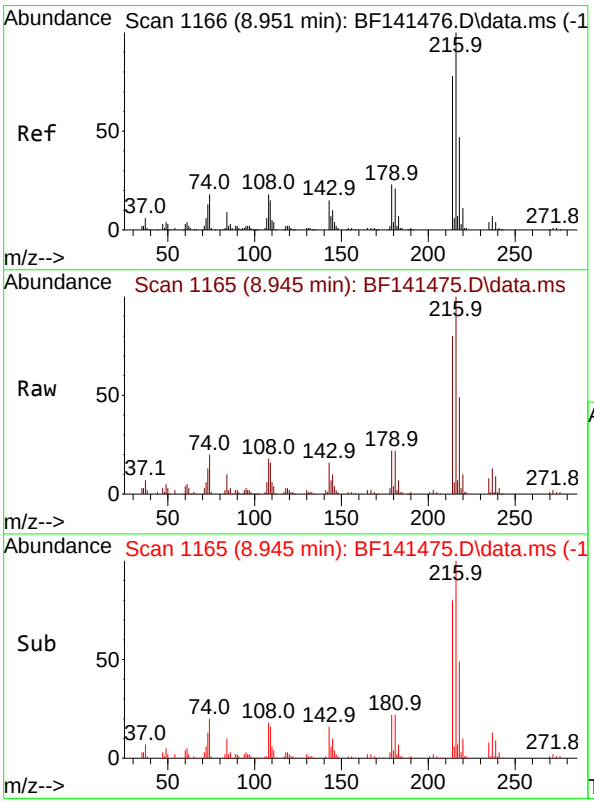
Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.3	121.9
160	45.5	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

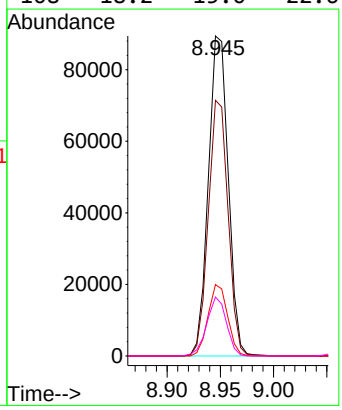
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

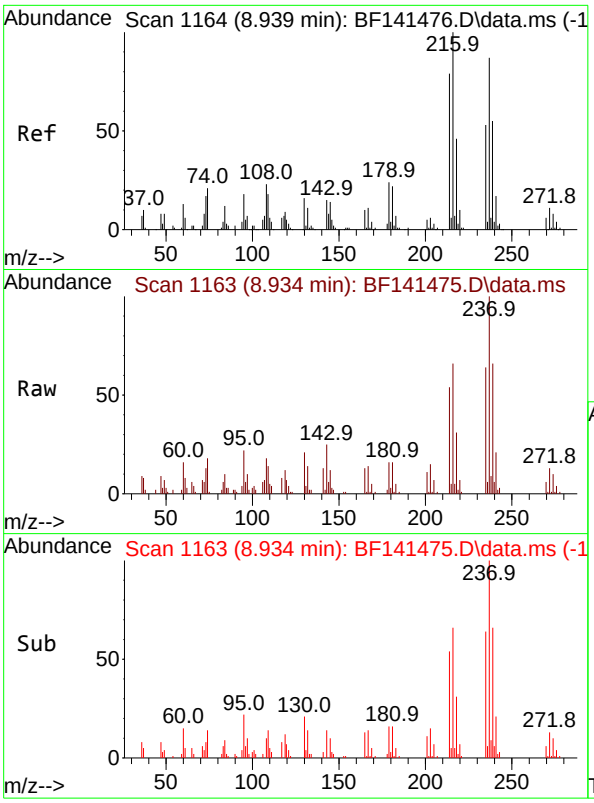


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.753 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:216 Resp: 115936

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	21.9	18.0	27.0
108	18.2	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 18.691 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

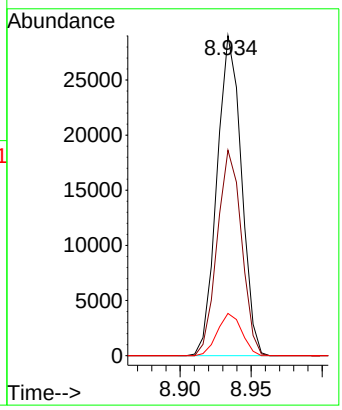
Tgt Ion:237 Resp: 3472

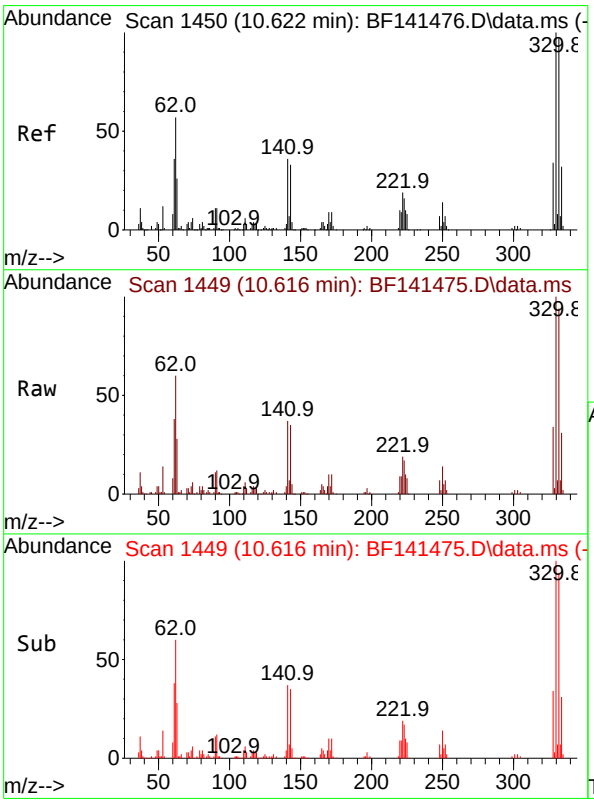
Ion	Ratio	Lower	Upper
237	100		
235	64.2	41.4	81.4
272	13.2	0.0	32.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

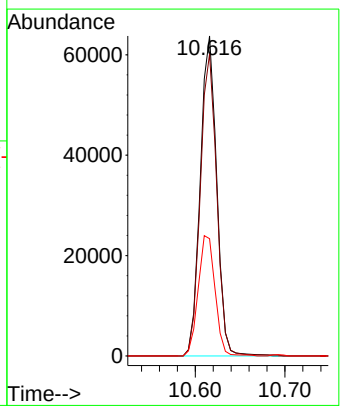


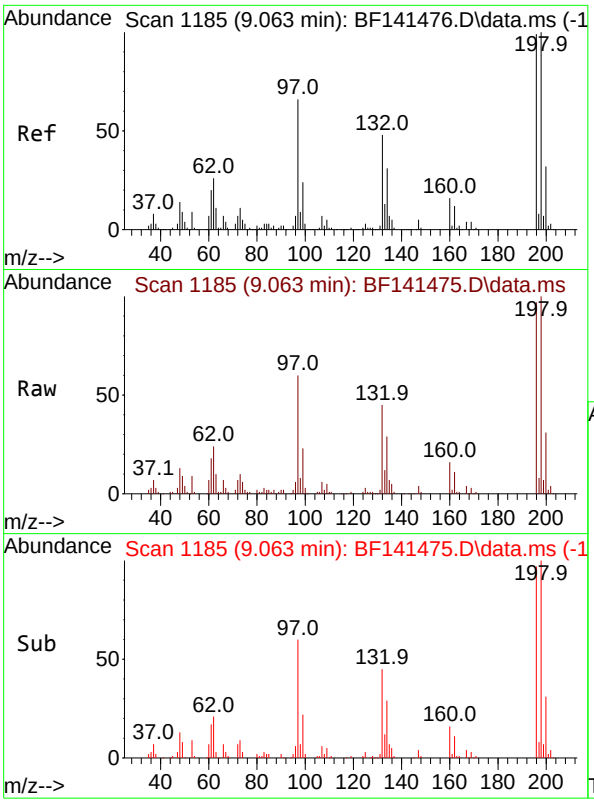


#42
2,4,6-Tribromophenol
Concen: 41.714 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:330 Resp: 80912

Ion	Ratio	Lower	Upper
330	100		
332	94.7	78.5	117.7
141	38.7	31.0	46.4

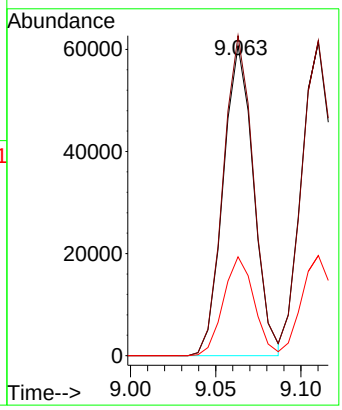




#43
2,4,6-Trichlorophenol
Concen: 20.817 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:196 Resp: 7516

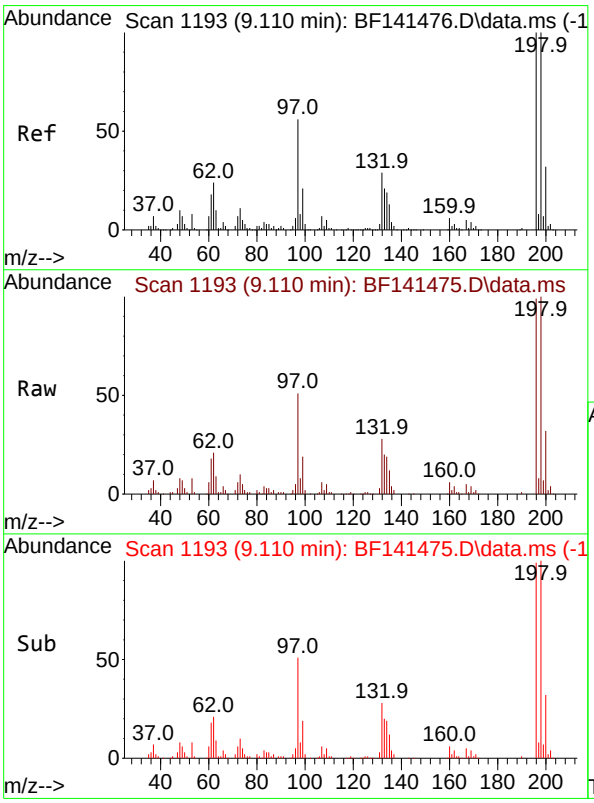
Ion	Ratio	Lower	Upper
196	100		
198	103.2	80.6	121.0
200	31.9	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

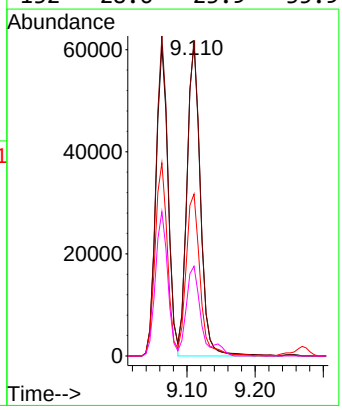
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

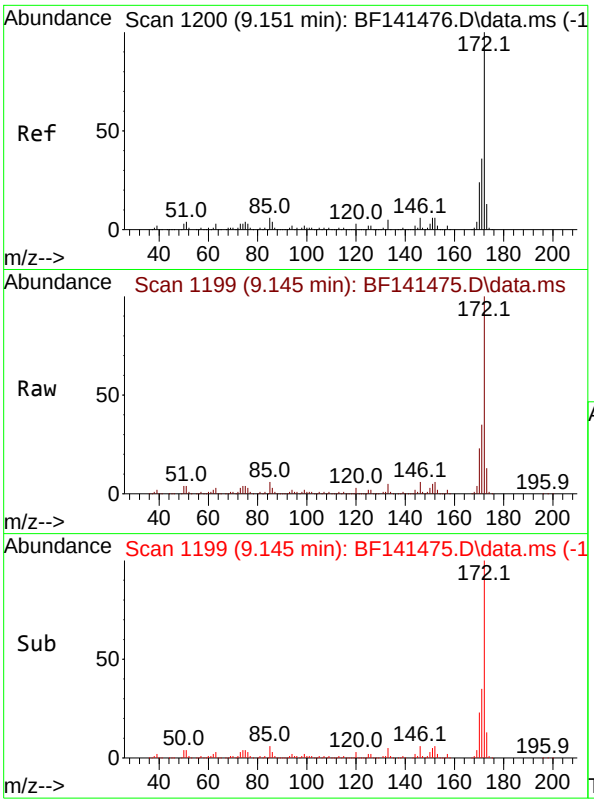


#44
2,4,5-Trichlorophenol
Concen: 21.240 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:196 Resp: 83112

Ion	Ratio	Lower	Upper
196	100		
198	100.6	79.8	119.8
97	51.7	44.8	67.2
132	28.6	23.9	35.9

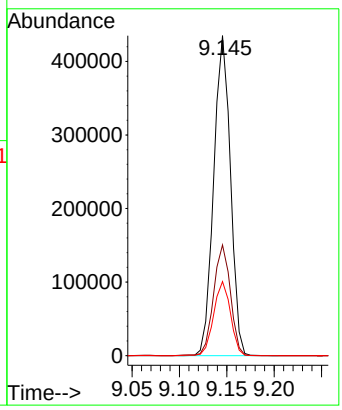




#45
2-Fluorobiphenyl
Concen: 42.674 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:172 Resp: 53484

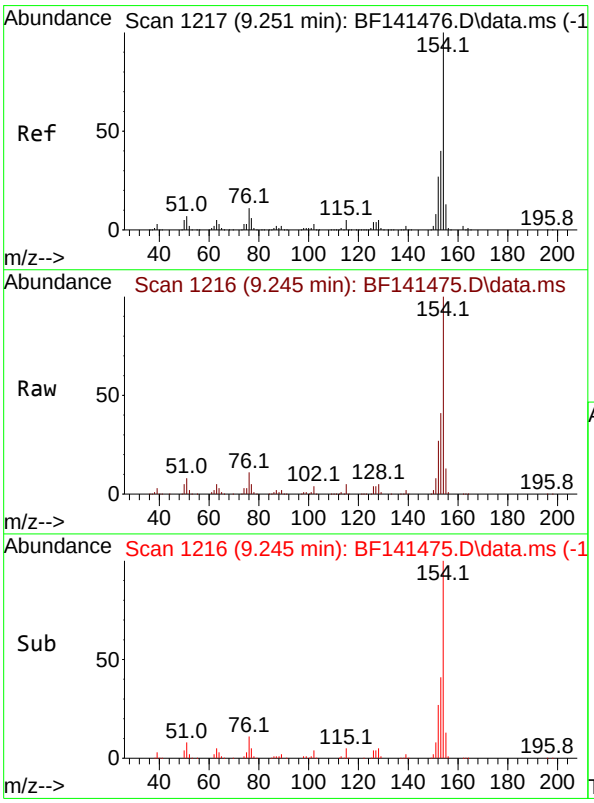
Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.7	43.1
170	23.1	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

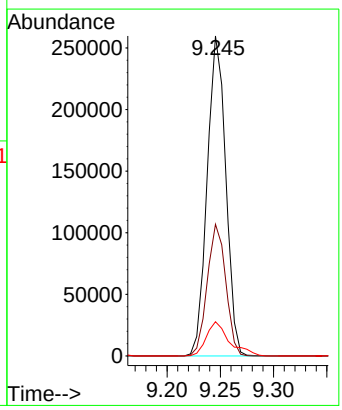
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

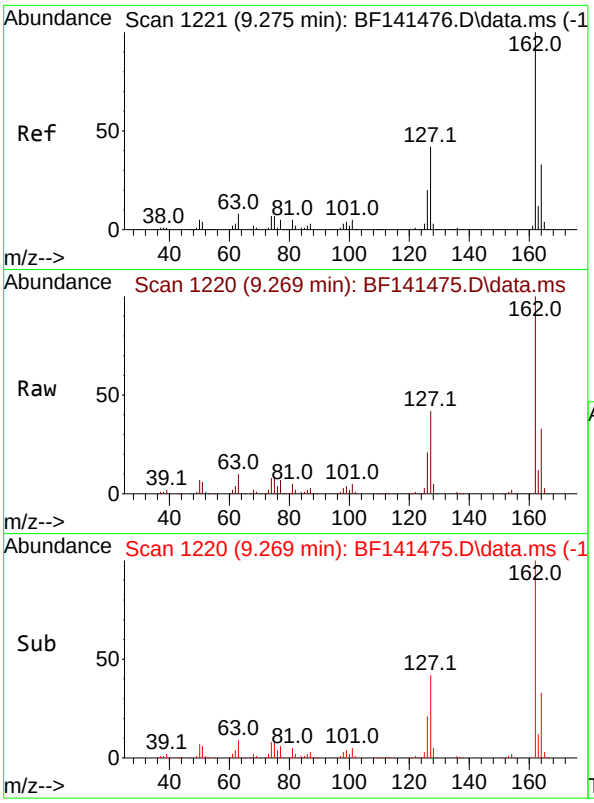


#46
1,1'-Biphenyl
Concen: 21.045 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 315040

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.4	60.4
76	10.7	0.0	30.8

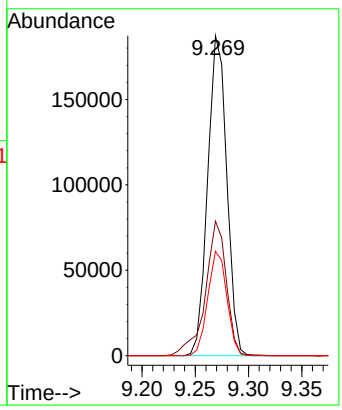




#47
2-Chloronaphthalene
Concen: 21.119 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:162 Resp: 23378

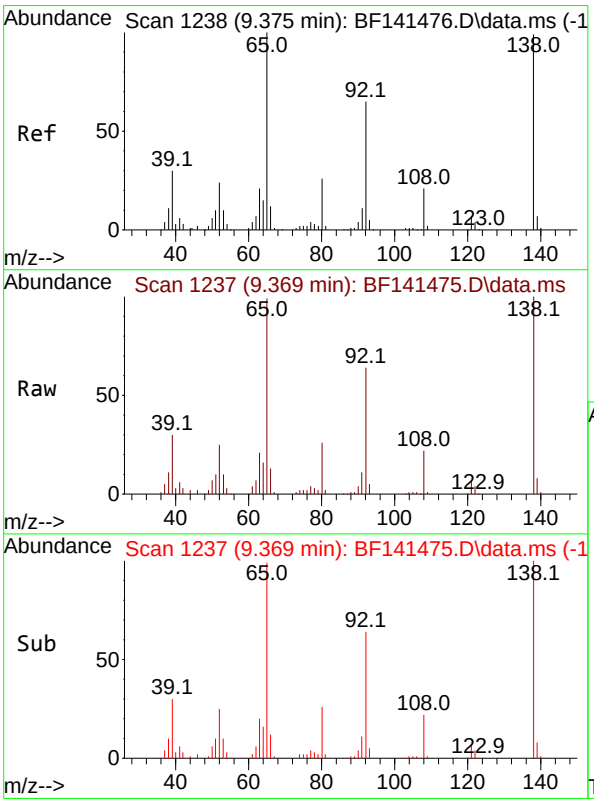
Ion	Ratio	Lower	Upper
162	100		
127	42.1	34.1	51.1
164	32.6	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

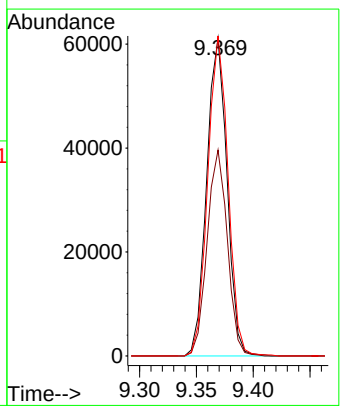
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

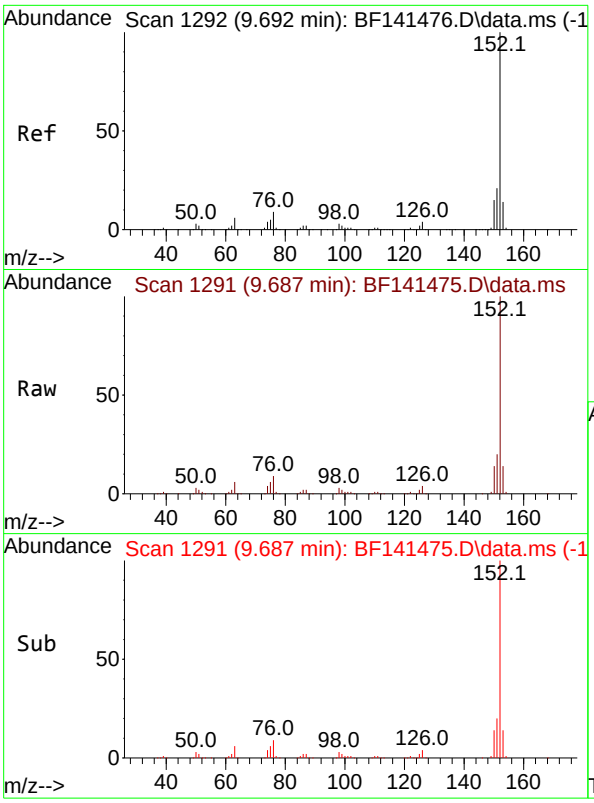


#48
2-Nitroaniline
Concen: 20.455 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 65 Resp: 75990

Ion	Ratio	Lower	Upper
65	100		
92	64.8	52.2	78.2
138	100.7	79.5	119.3

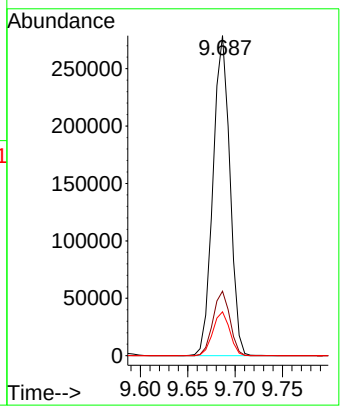




#49
Acenaphthylene
Concen: 21.004 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:152 Resp: 34582

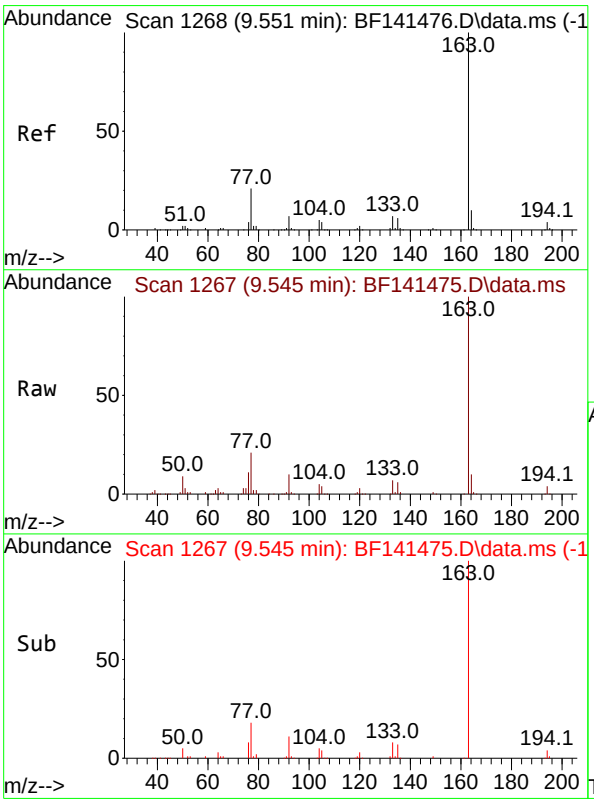
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

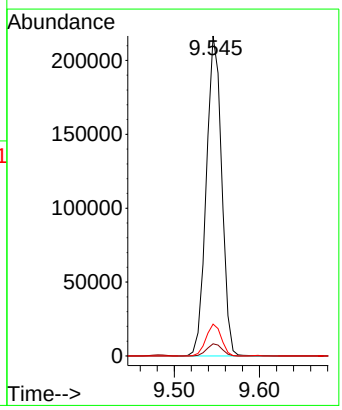
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

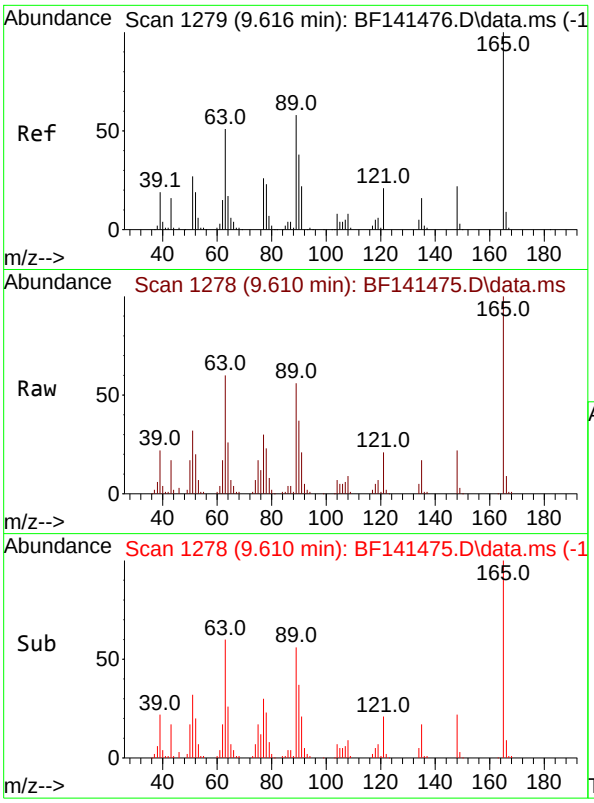


#50
Dimethylphthalate
Concen: 20.744 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:163 Resp: 271920

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.0	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 21.182 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

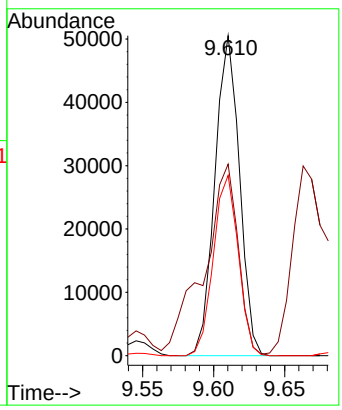
Tgt Ion:165 Resp: 6070

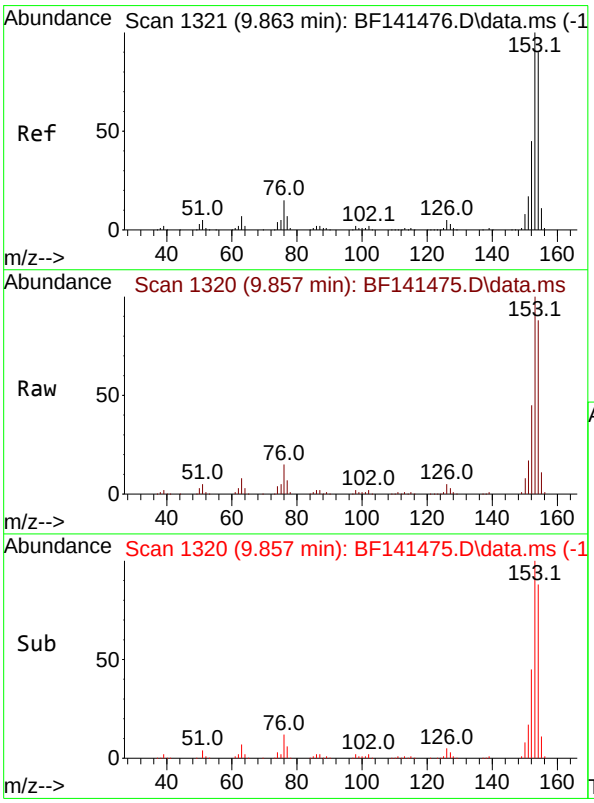
Ion	Ratio	Lower	Upper
165	100		
63	59.8	49.4	74.0
89	56.3	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

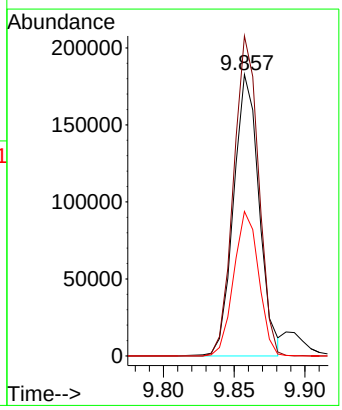


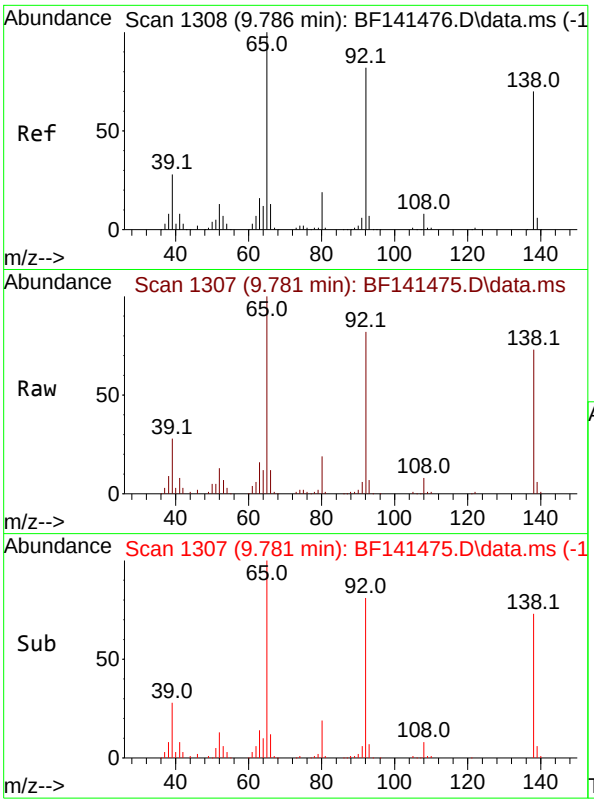


#52
Acenaphthene
Concen: 20.728 ng m
RT: 9.857 min Scan# 1320
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 229442

Ion	Ratio	Lower	Upper
154	100		
153	113.7	89.2	133.8
152	51.3	39.8	59.8





#53
3-Nitroaniline
Concen: 20.954 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

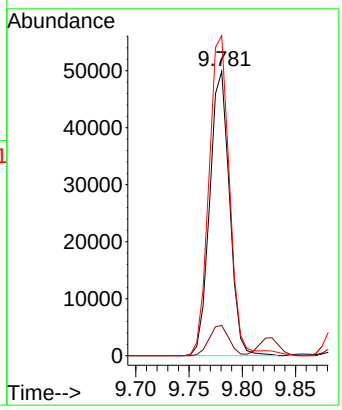
Tgt Ion:138 Resp: 6462

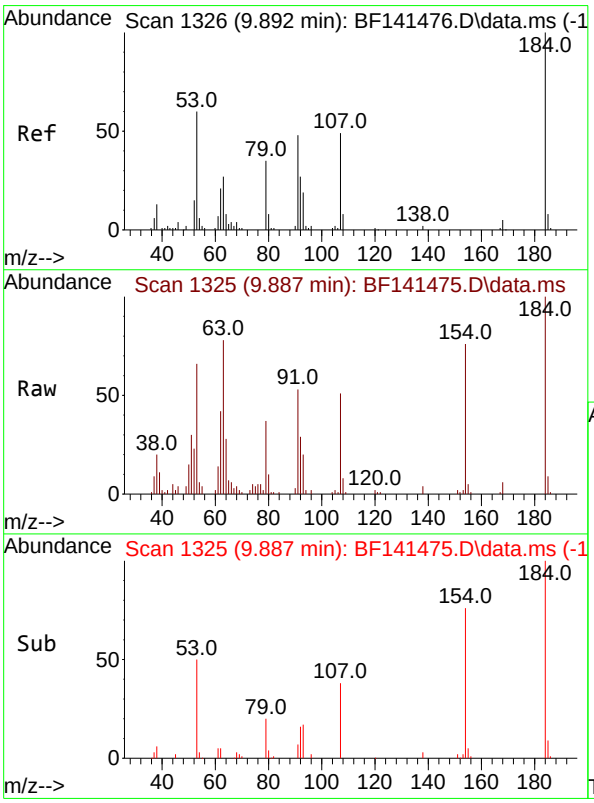
Ion	Ratio	Lower	Upper
138	100		
108	10.6	9.0	13.4
92	112.5	93.7	140.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

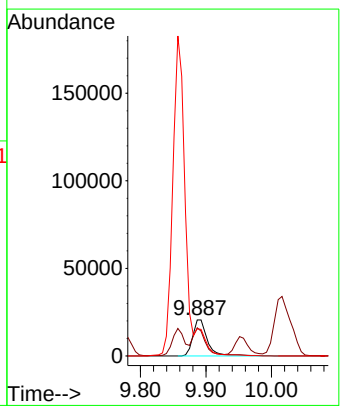


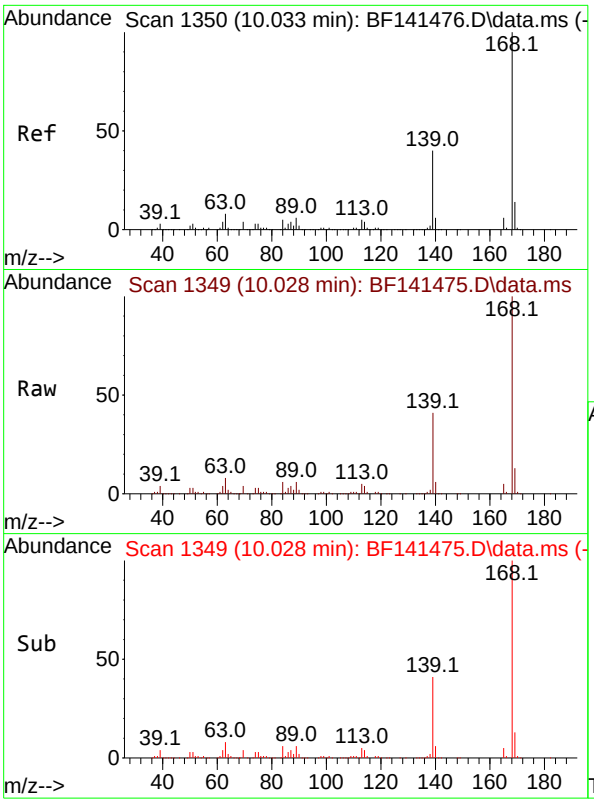


#54
2,4-Dinitrophenol
Concen: 18.898 ng
RT: 9.887 min Scan# 1325
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:184 Resp: 32186

Ion	Ratio	Lower	Upper
184	100		
63	78.3	61.0	91.6
154	75.8	59.9	89.9

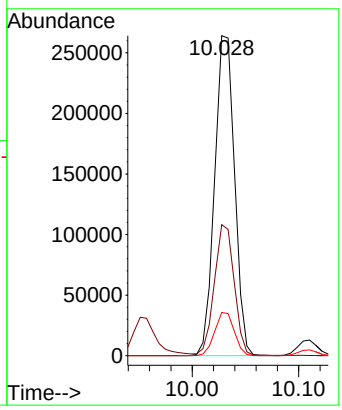




#55
Dibenzofuran
Concen: 21.087 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:168 Resp: 34262

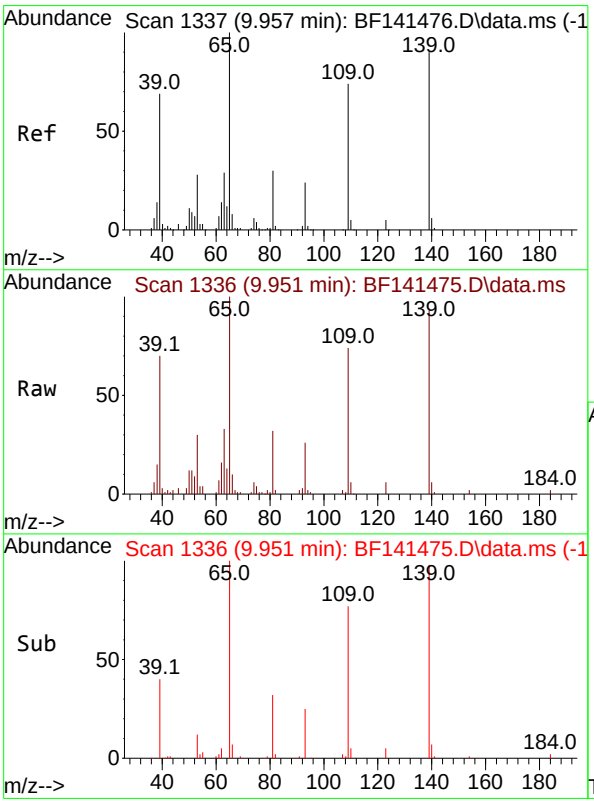
Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

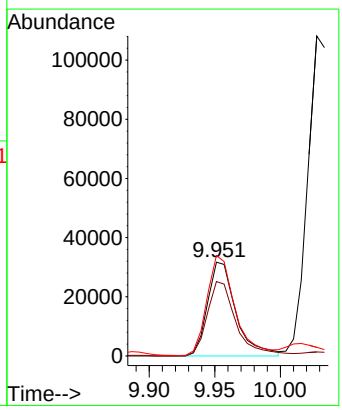
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

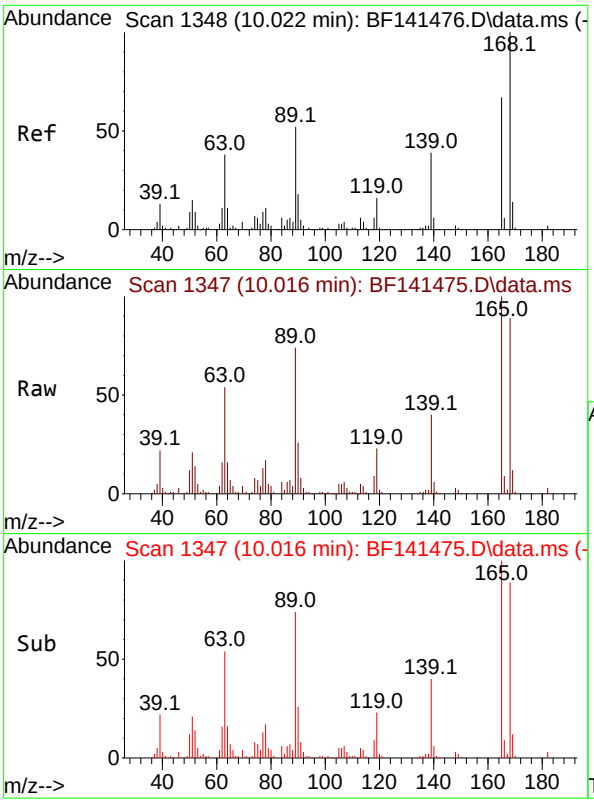


#56
4-Nitrophenol
Concen: 20.843 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.018 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 47721

Ion	Ratio	Lower	Upper
139	100		
109	79.3	62.0	102.0
65	107.1	91.2	131.2

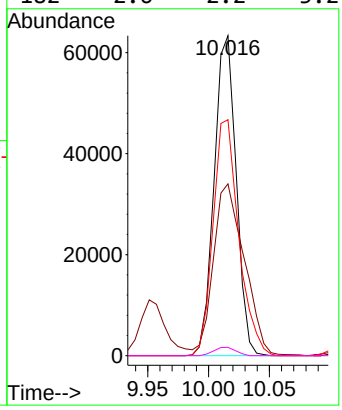




#57
2,4-Dinitrotoluene
Concen: 20.936 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:165 Resp: 7986

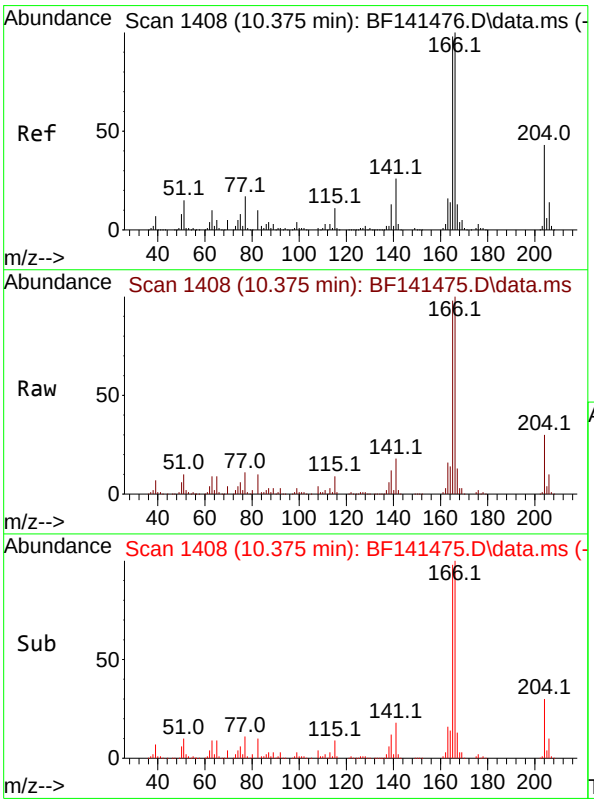
Ion	Ratio	Lower	Upper
165	100		
63	53.7	46.4	69.6
89	73.8	61.8	92.6
182	2.6	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

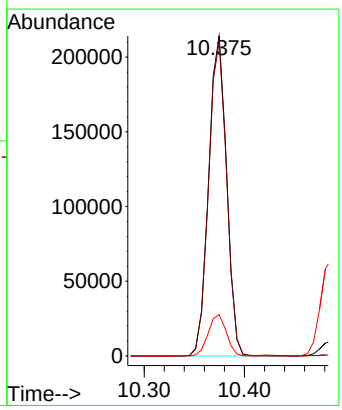
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

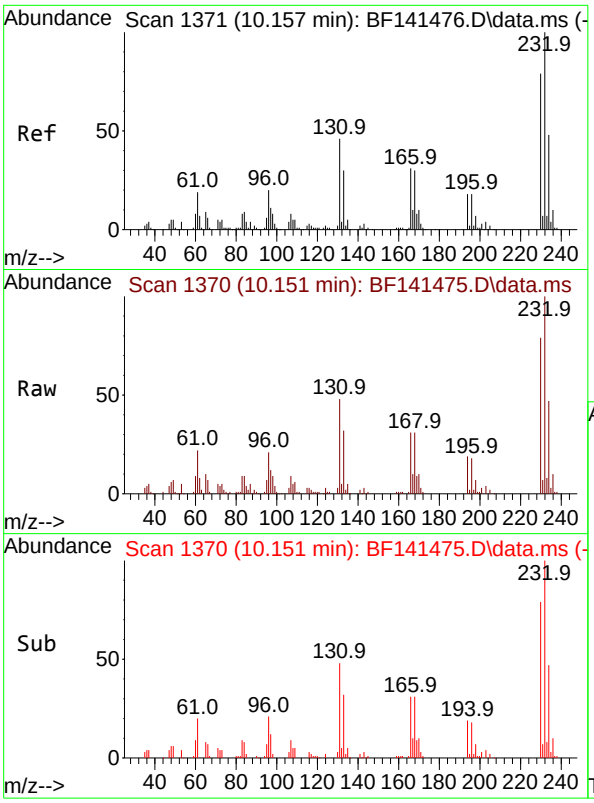


#58
Fluorene
Concen: 21.159 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:166 Resp: 265810

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.2	117.2
167	13.0	10.7	16.1

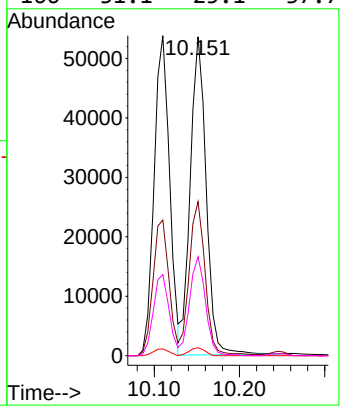




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.579 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:232 Resp: 6932

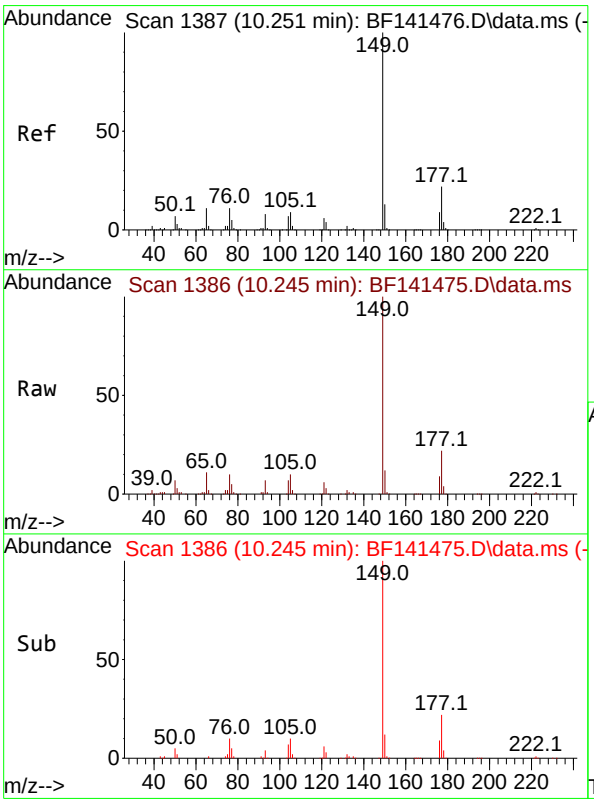
Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.2	58.8
130	2.4	2.1	3.1
166	31.1	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

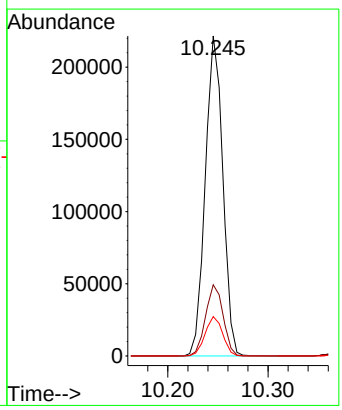
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

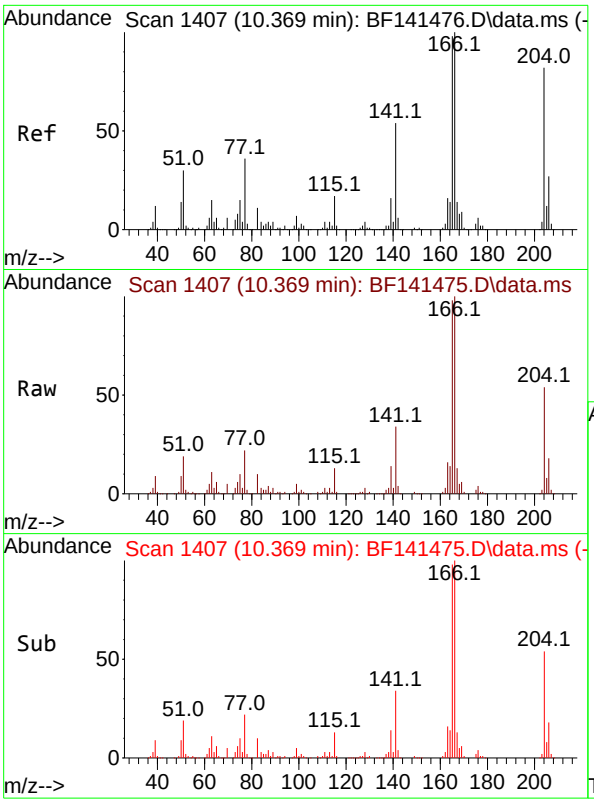


#60
Diethylphthalate
Concen: 20.936 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 270018

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.3	10.1	15.1

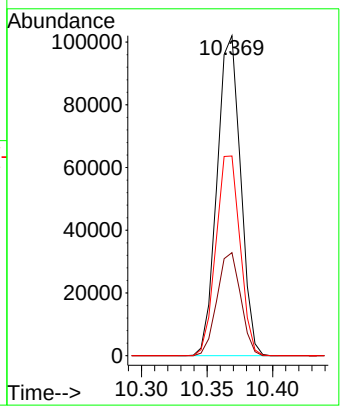




#61
4-Chlorophenyl-phenylether
Concen: 21.049 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:204 Resp: 12721(

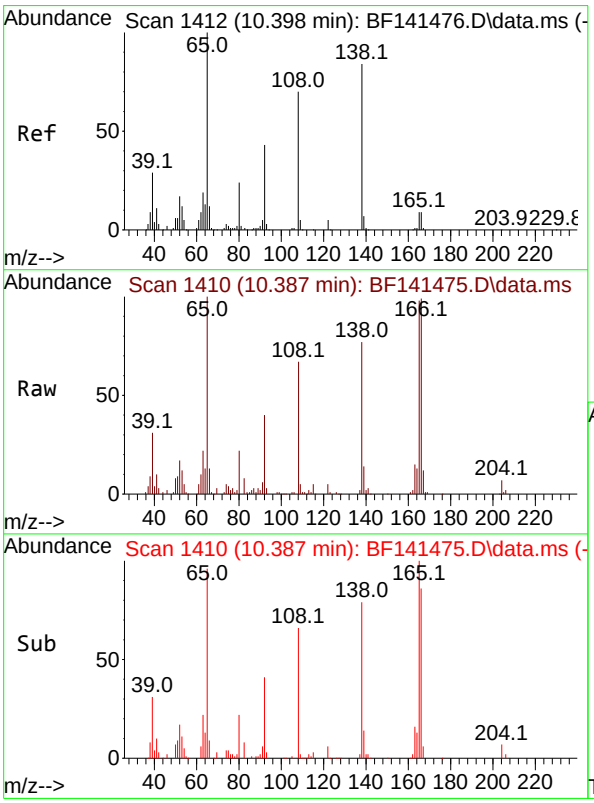
Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.6	40.0
141	62.4	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

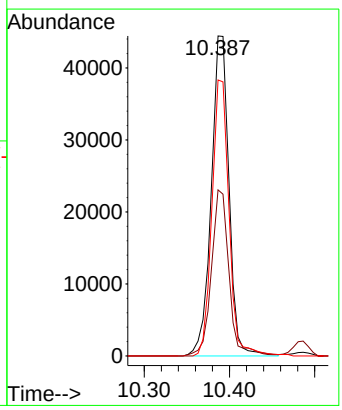
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

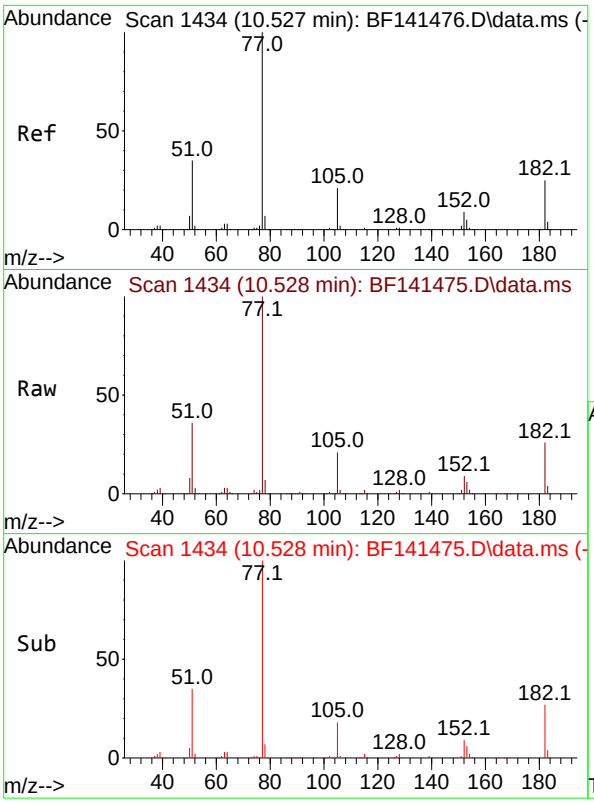


#62
4-Nitroaniline
Concen: 20.519 ng
RT: 10.387 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:138 Resp: 64262

Ion	Ratio	Lower	Upper
138	100		
92	51.9	31.3	71.3
108	86.2	63.7	103.7

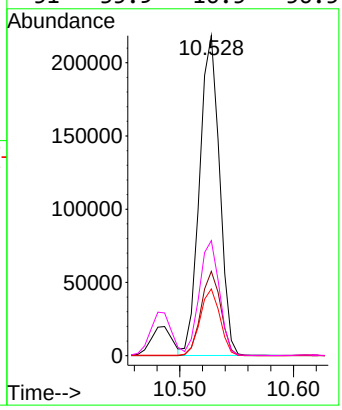




#63
Azobenzene
Concen: 20.853 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 77 Resp: 26737

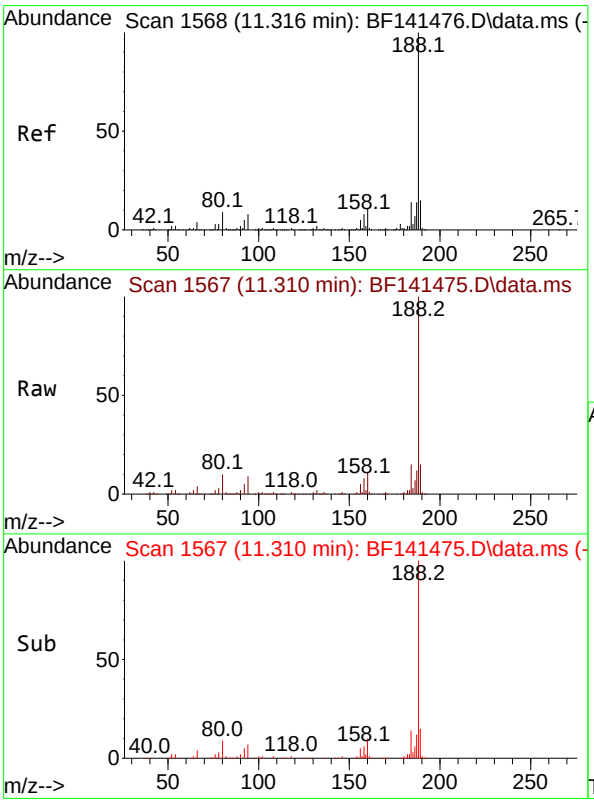
Ion	Ratio	Lower	Upper
77	100		
182	26.4	4.7	44.7
105	20.9	0.4	40.4
51	35.9	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

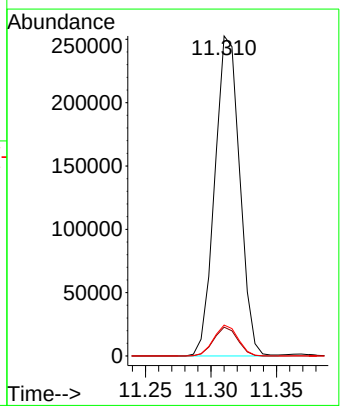
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

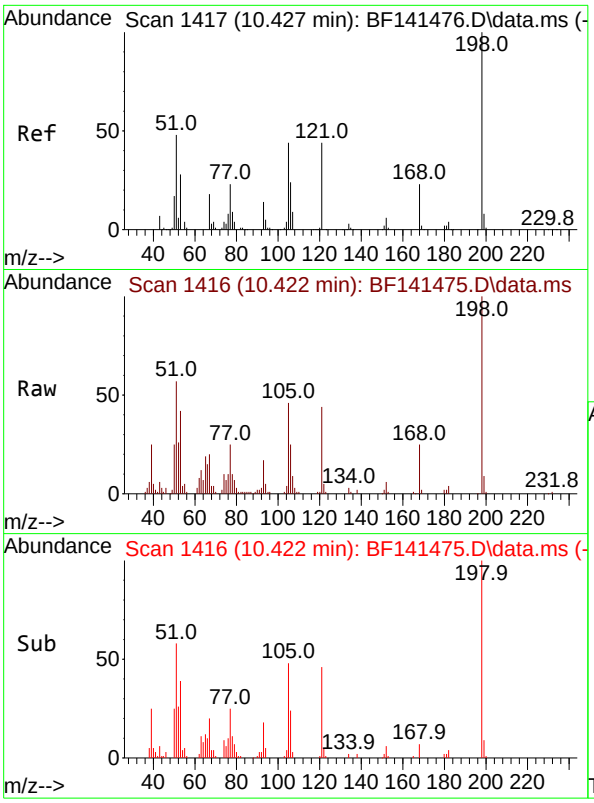


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:188 Resp: 333651

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.7	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 20.226 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

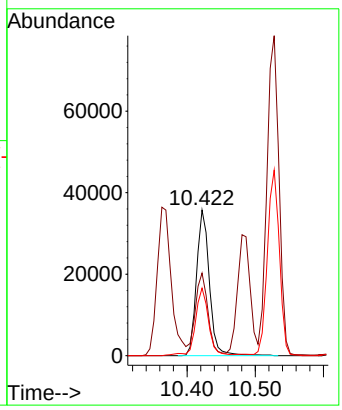
Tgt Ion:198 Resp: 4687

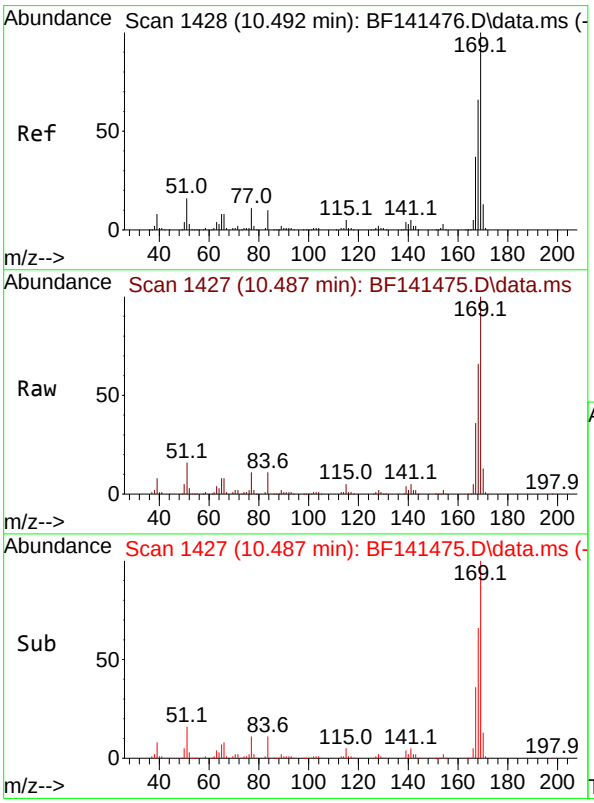
Ion	Ratio	Lower	Upper
198	100		
51	56.7	37.4	77.4
105	46.4	25.2	65.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

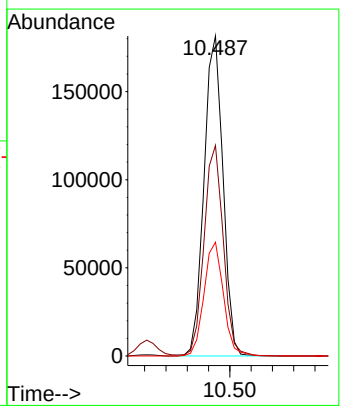


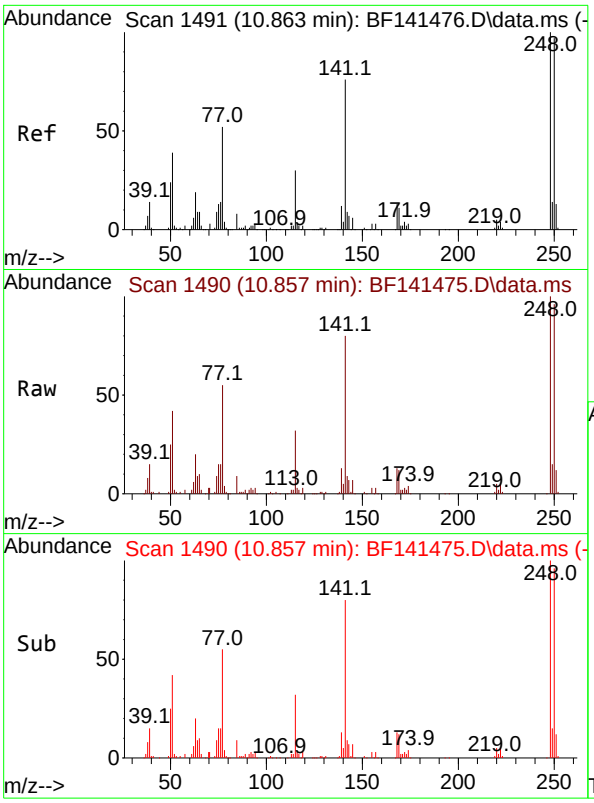


#66
n-Nitrosodiphenylamine
Concen: 21.045 ng
RT: 10.487 min Scan# 1427
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:169 Resp: 224776

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.3	79.9
167	35.6	29.4	44.2

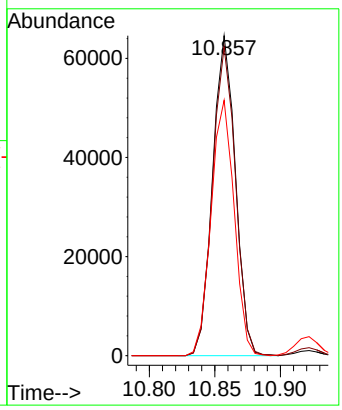




#67
4-Bromophenyl-phenylether
Concen: 20.962 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:248 Resp: 7816

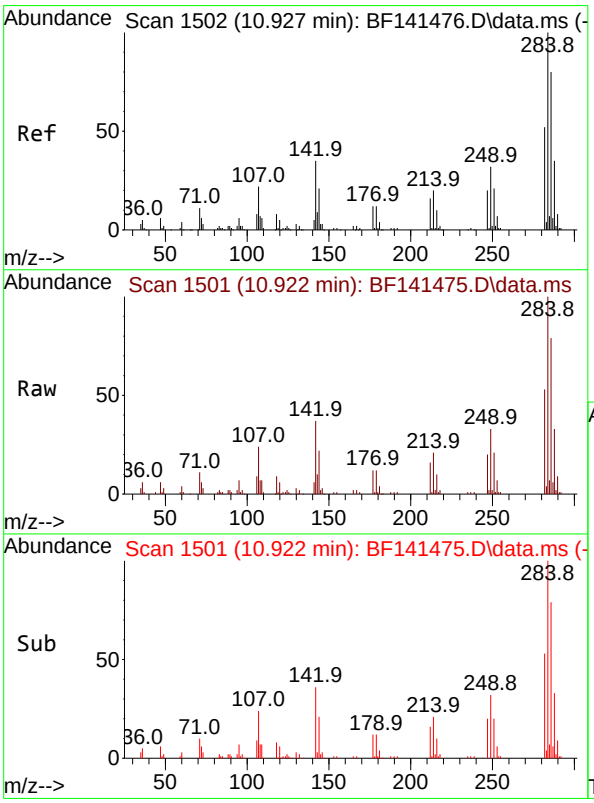
Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.8	116.6
141	79.8	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

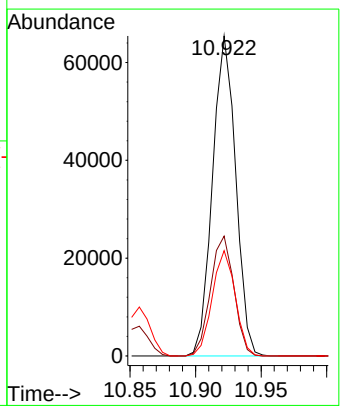
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

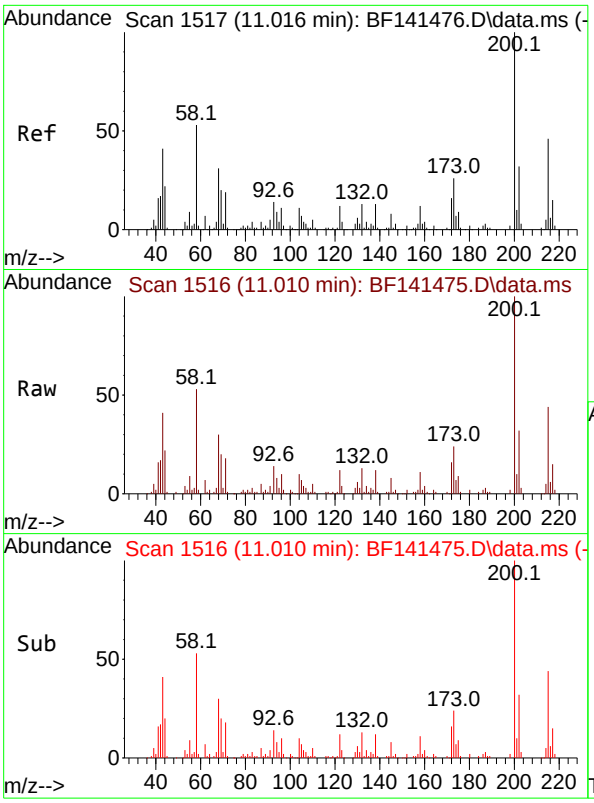


#68
Hexachlorobenzene
Concen: 20.913 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:284 Resp: 80301

Ion	Ratio	Lower	Upper
284	100		
142	37.5	28.0	42.0
249	32.9	25.8	38.8

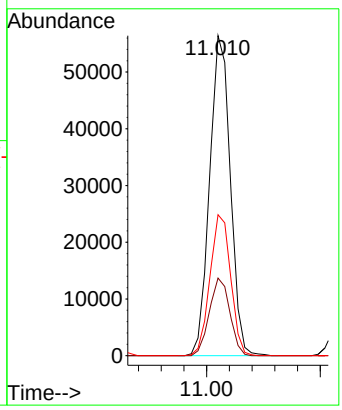




#69
Atrazine
Concen: 22.271 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:200 Resp: 7135

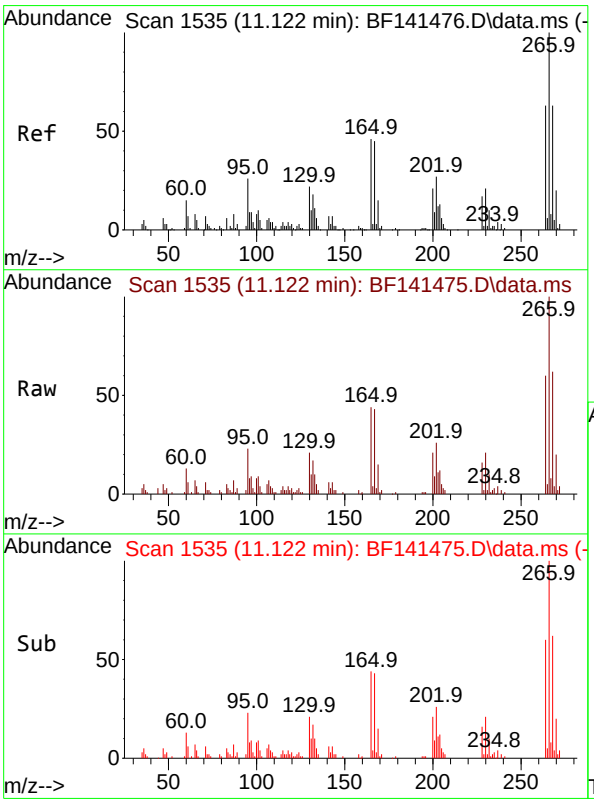
Ion	Ratio	Lower	Upper
200	100		
173	24.3	5.9	45.9
215	44.1	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

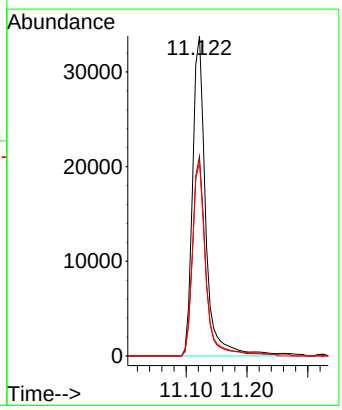
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

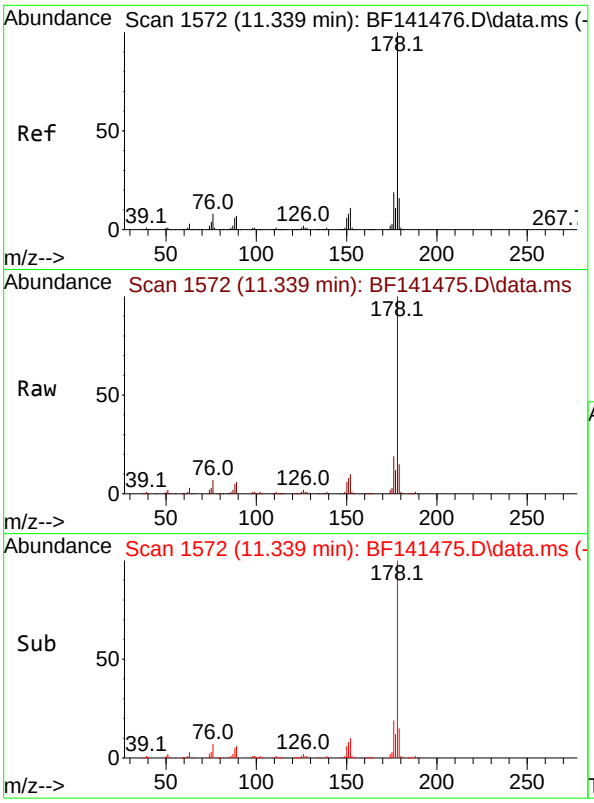


#70
Pentachlorophenol
Concen: 20.584 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:266 Resp: 50539

Ion	Ratio	Lower	Upper
266	100		
268	62.4	50.1	75.1
264	60.5	50.1	75.1

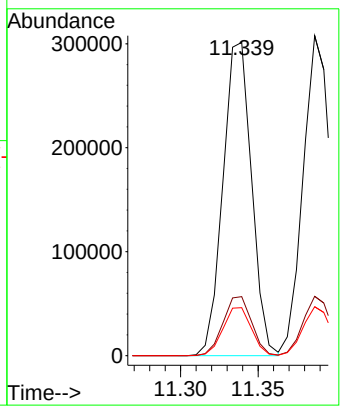




#71
Phenanthrene
Concen: 21.085 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:178 Resp: 38725

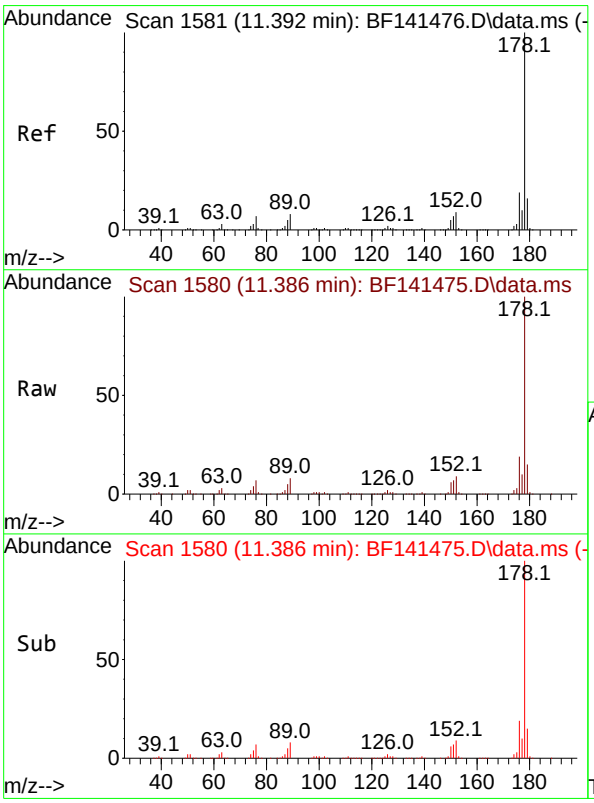
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.3	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

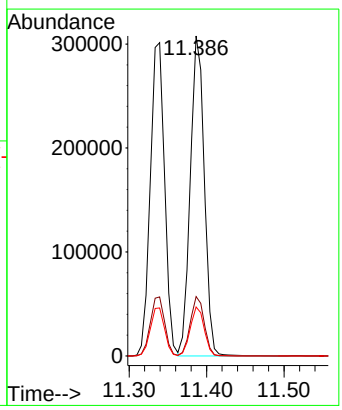
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

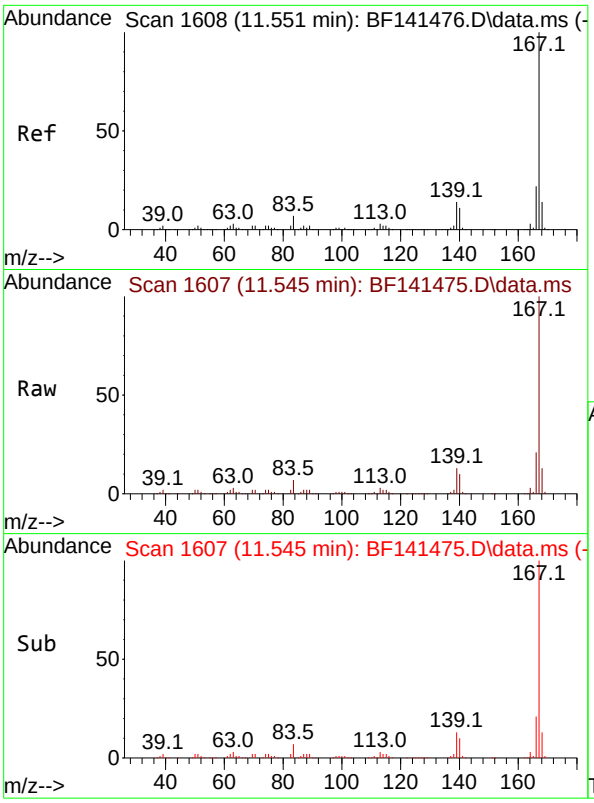


#72
Anthracene
Concen: 20.930 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:178 Resp: 386414

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.3	12.4	18.6

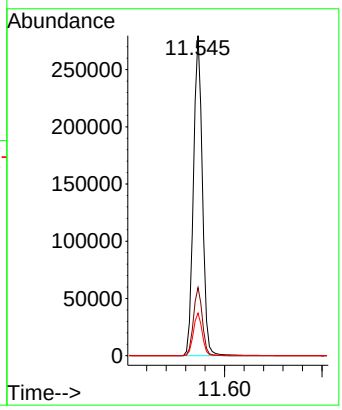




#73
Carbazole
Concen: 21.610 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:167 Resp: 35898

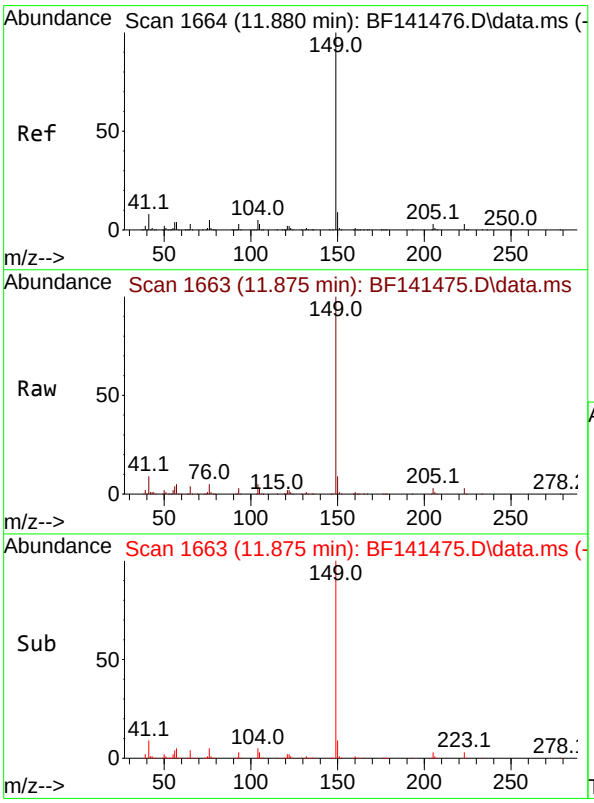
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.4	26.2
139	13.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

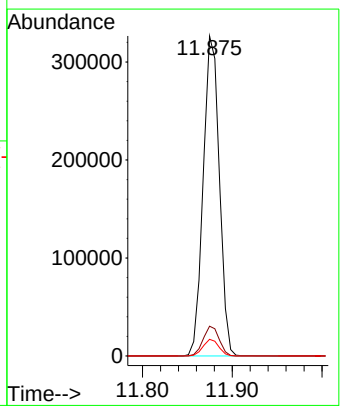
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

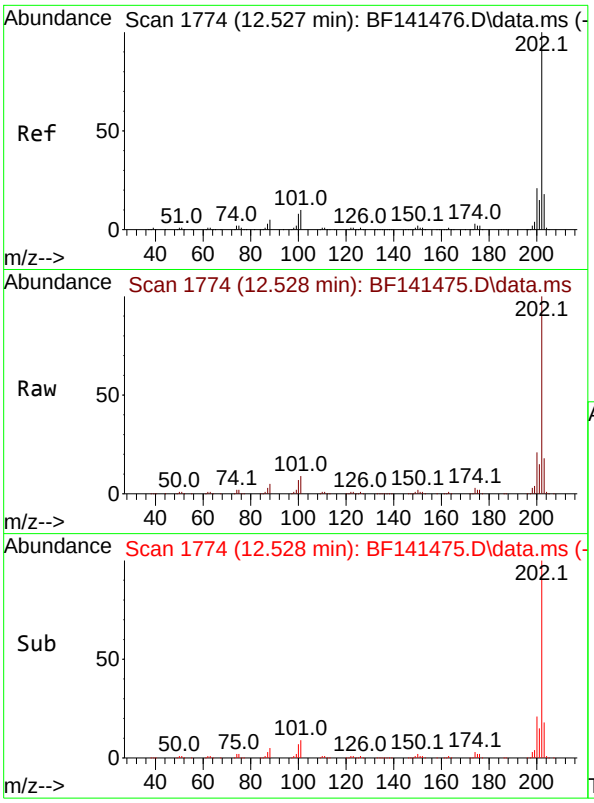


#74
Di-n-butylphthalate
Concen: 21.273 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 408041

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.2	4.2	6.2

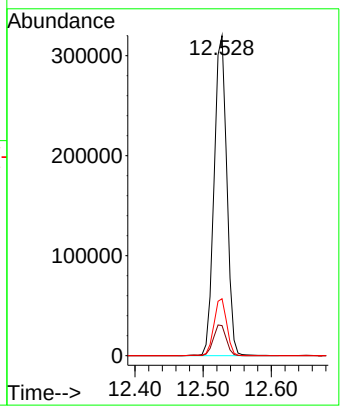




#75
Fluoranthene
Concen: 21.298 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:202 Resp: 41471

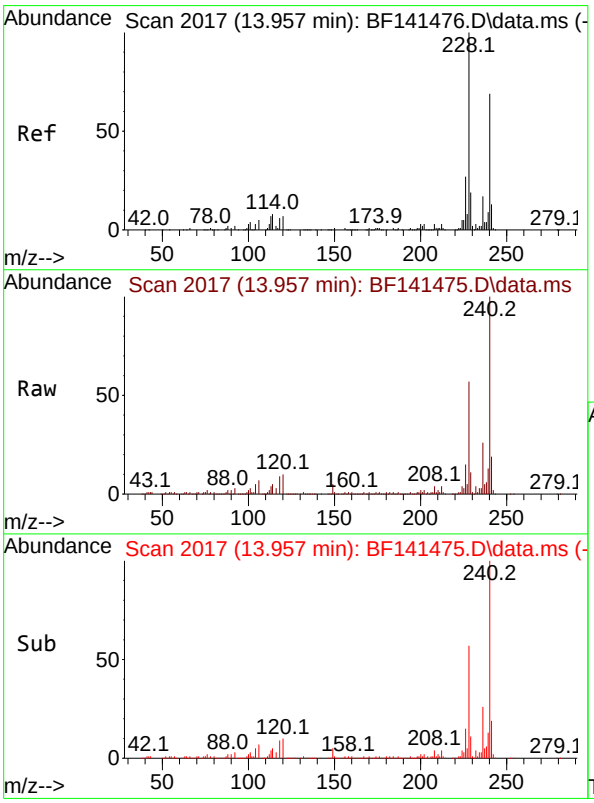
Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	30.2
203	17.8	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

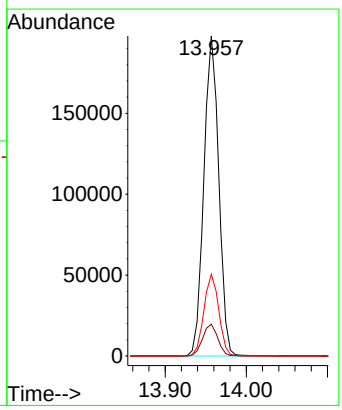
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

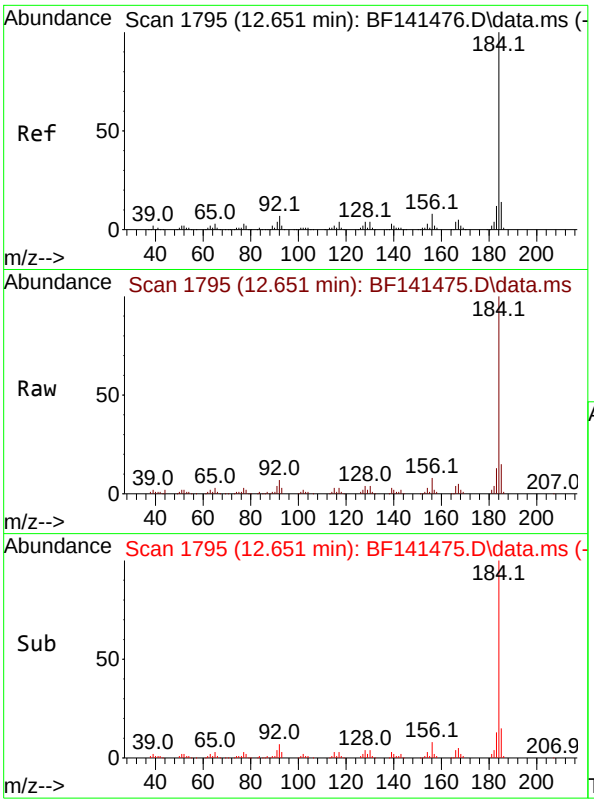


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:240 Resp: 251741

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.5	19.8	29.8

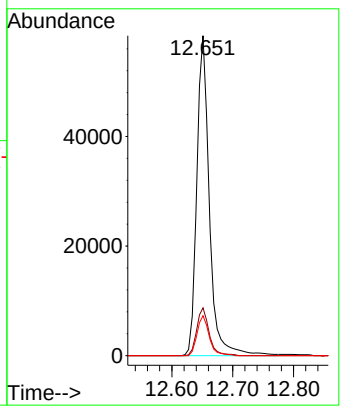




#77
Benzidine
Concen: 15.132 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:184 Resp: 8401

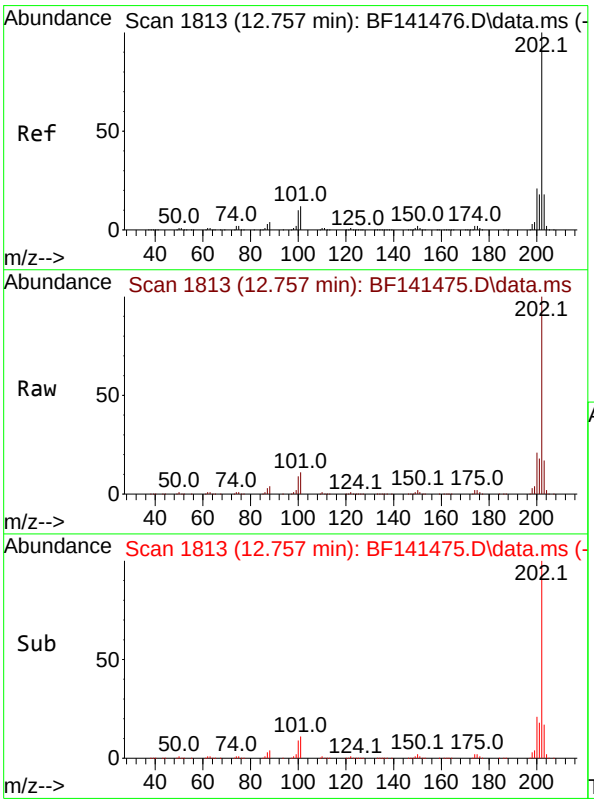
Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.3	16.9
183	12.5	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

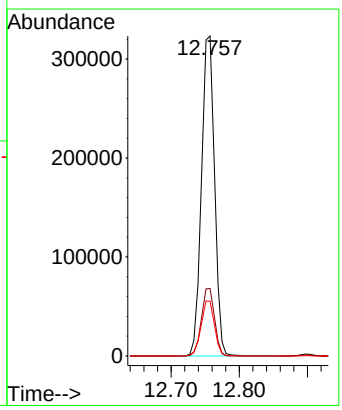
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

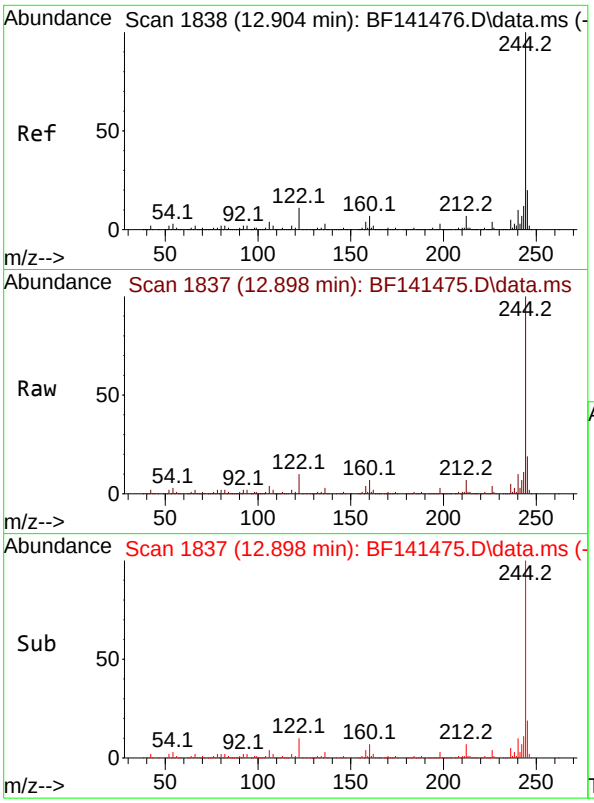


#78
Pyrene
Concen: 20.169 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:202 Resp: 432216

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.1	14.3	21.5

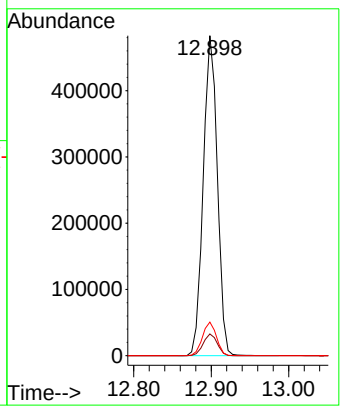




#79
Terphenyl-d14
Concen: 40.894 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:244 Resp: 60981

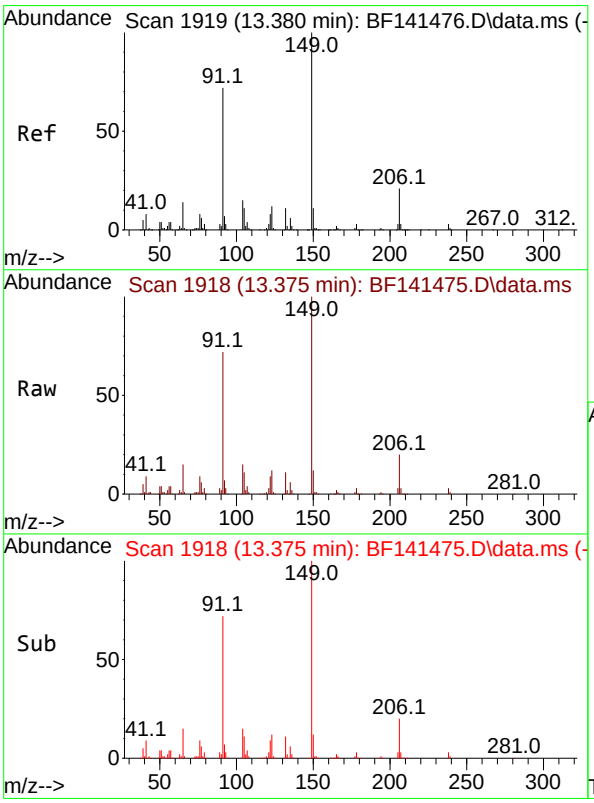
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.5	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

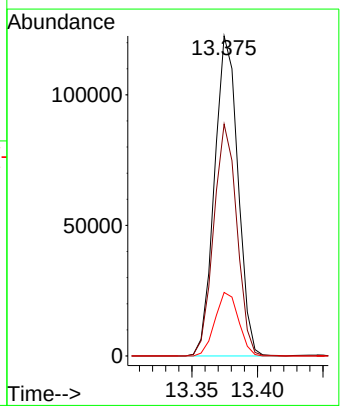
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

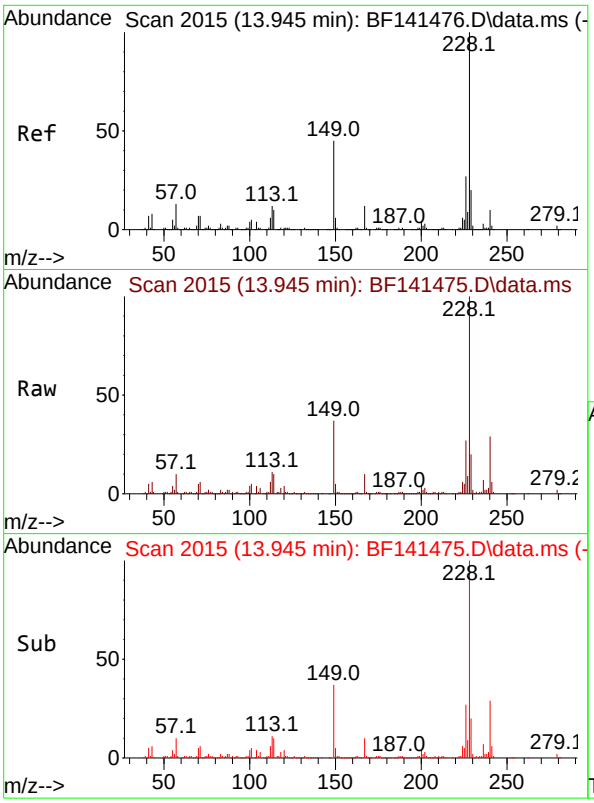


#80
Butylbenzylphthalate
Concen: 20.502 ng
RT: 13.375 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 152184

Ion	Ratio	Lower	Upper
149	100		
91	72.5	57.8	86.8
206	19.8	16.7	25.1

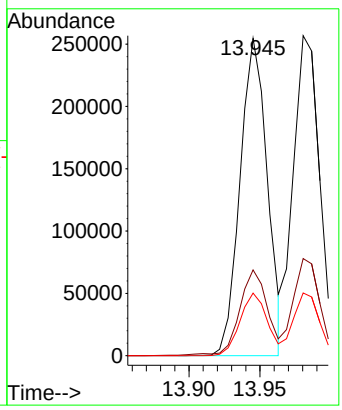




#81
Benzo(a)anthracene
Concen: 20.310 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:228 Resp: 33987

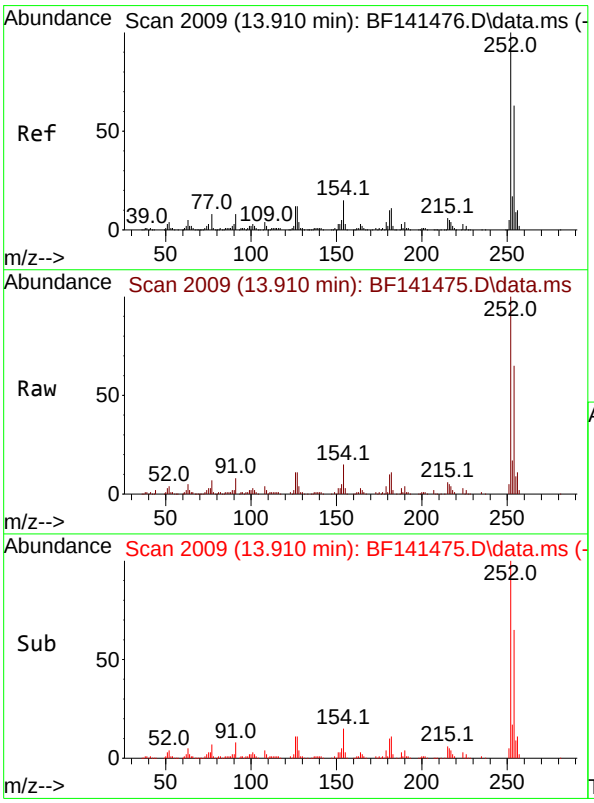
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.7	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

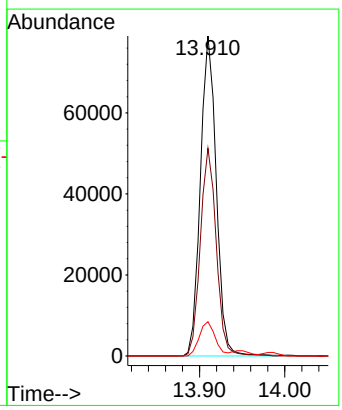
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

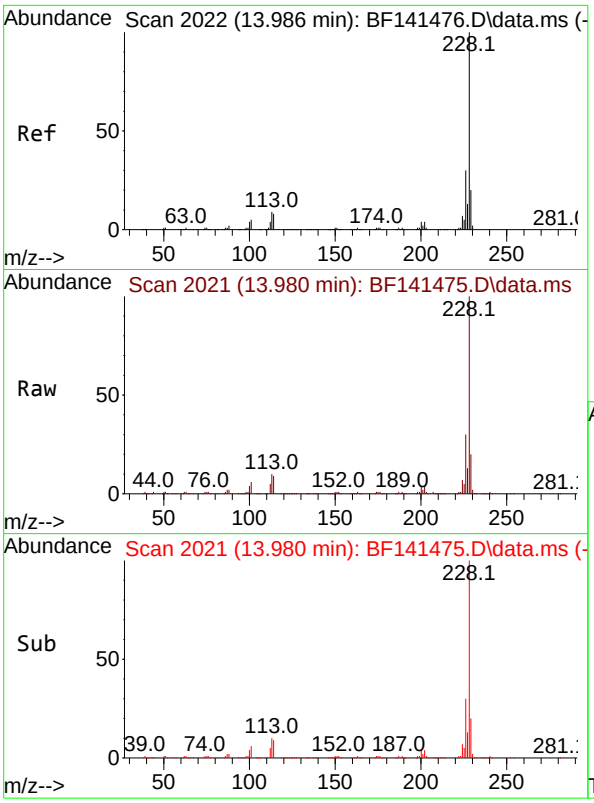


#82
3,3'-Dichlorobenzidine
Concen: 21.355 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 102367

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.6	76.0
126	10.7	9.3	13.9





#83
Chrysene
Concen: 21.411 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

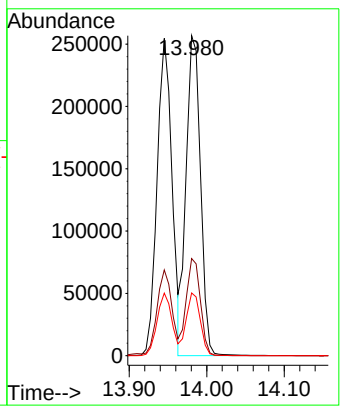
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

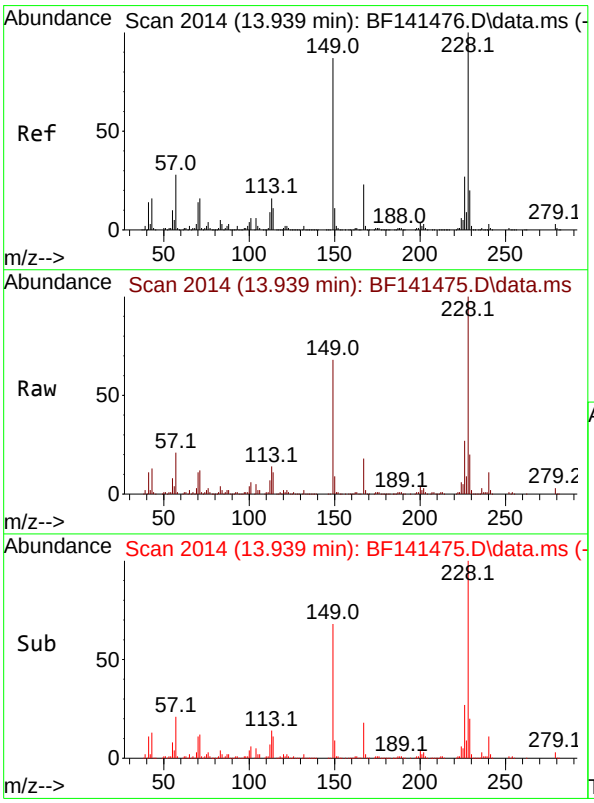
Tgt Ion:228 Resp: 33082

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.0	36.0
229	19.6	15.7	23.5

Manual Integrations
APPROVED

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

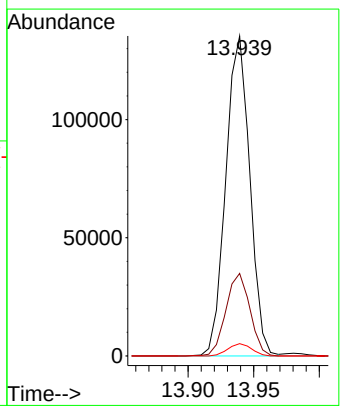


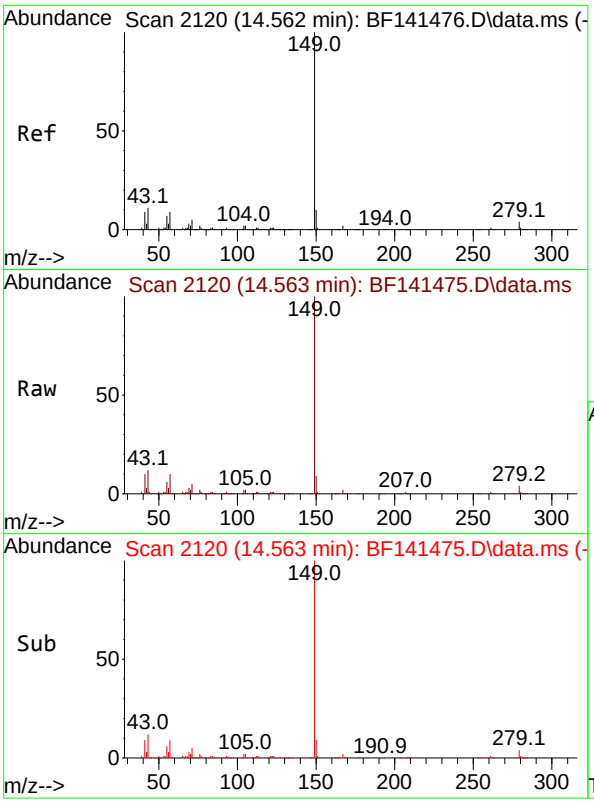


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.588 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 172352

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.9	3.1	4.7

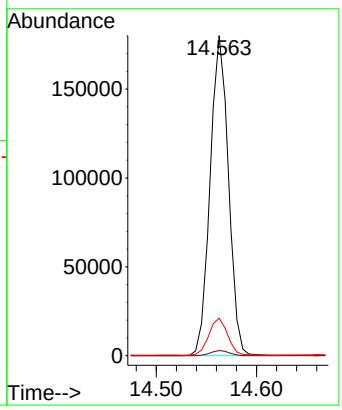




#85
Di-n-octyl phthalate
Concen: 19.180 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 22906

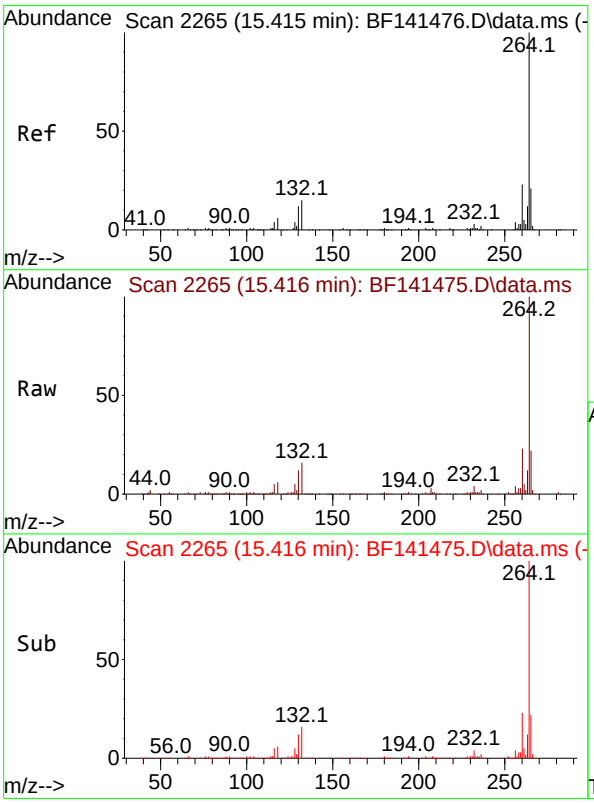
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

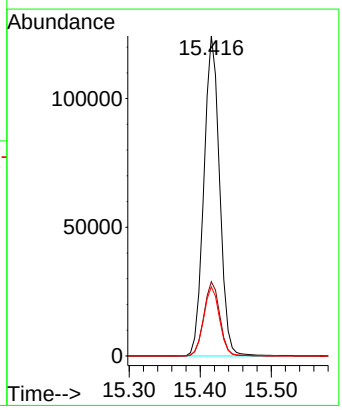
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

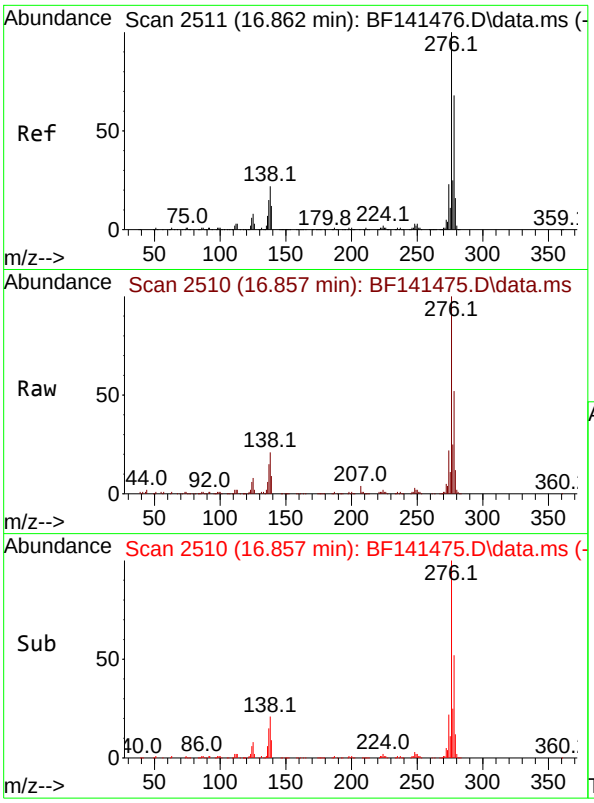


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:264 Resp: 191435

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.6	17.0	25.4

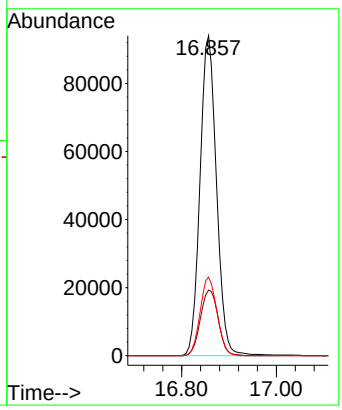




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.200 ng
RT: 16.857 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:276 Resp: 22710

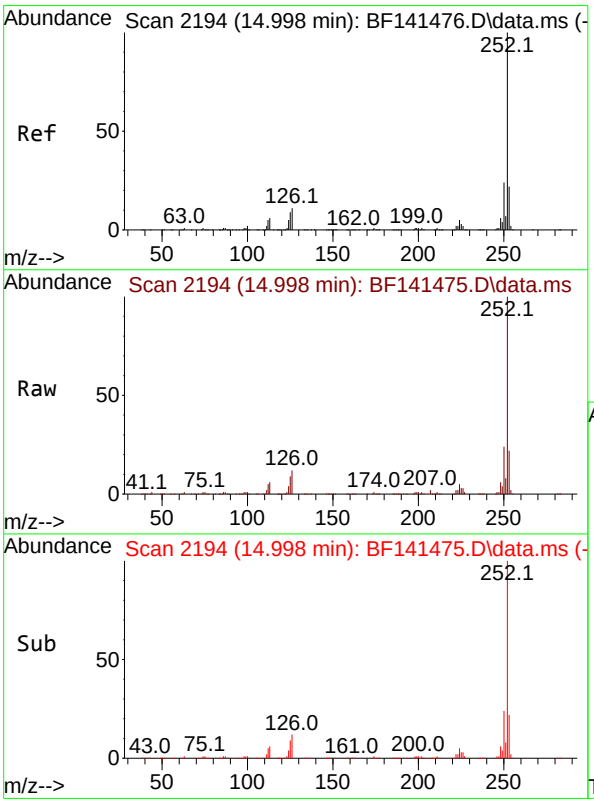
Ion	Ratio	Lower	Upper
276	100		
138	22.1	18.0	27.0
277	25.1	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

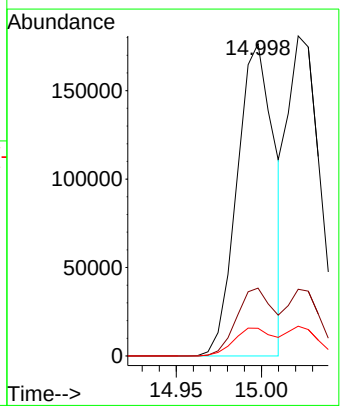
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

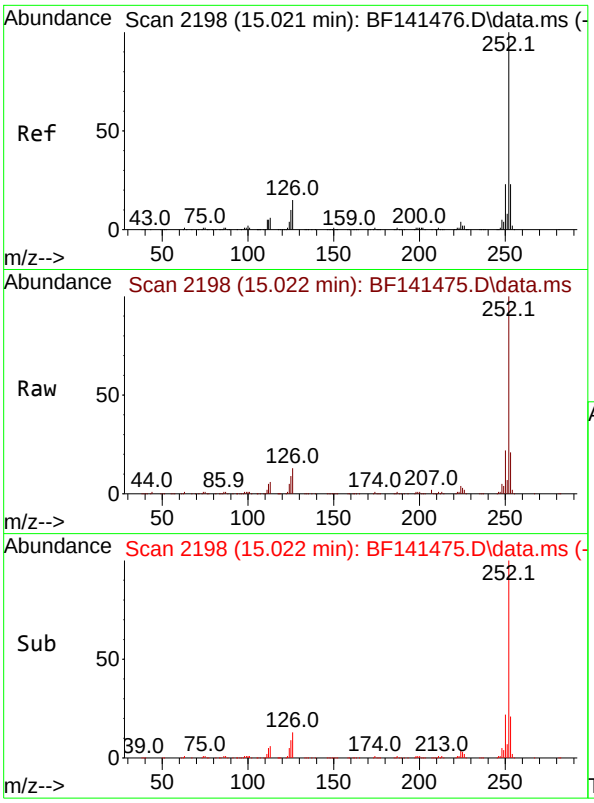


#88
Benzo(b)fluoranthene
Concen: 20.826 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 267695

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.9	7.0	10.6

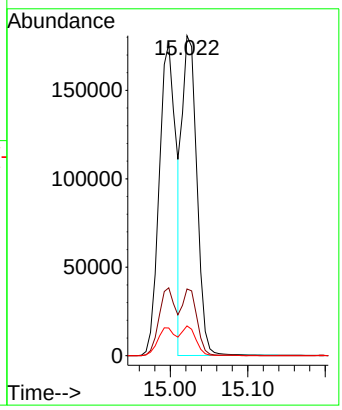




#89
Benzo(k)fluoranthene
Concen: 21.747 ng
RT: 15.022 min Scan# 2
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 23869

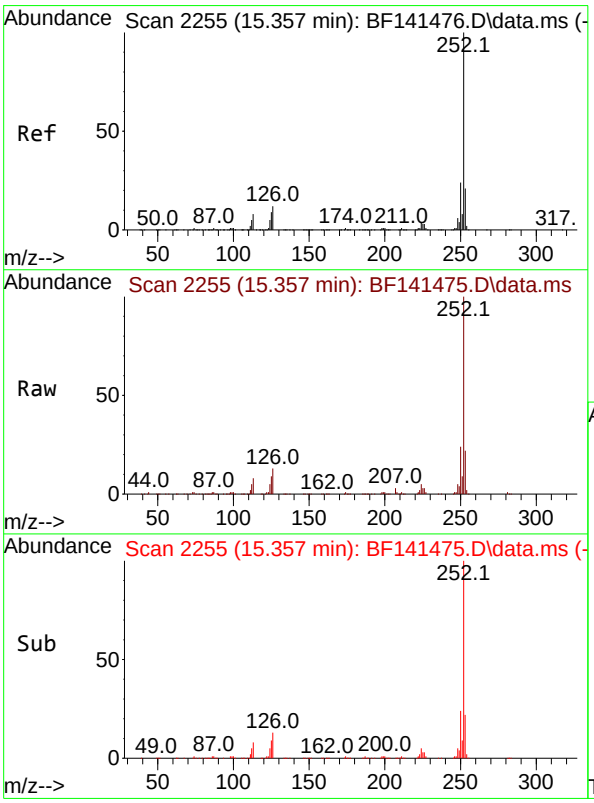
Ion	Ratio	Lower	Upper
252	100		
253	20.9	18.0	27.0
125	9.3	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

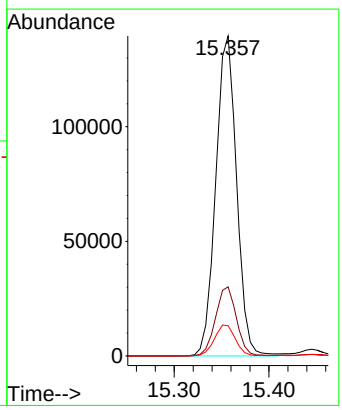
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025

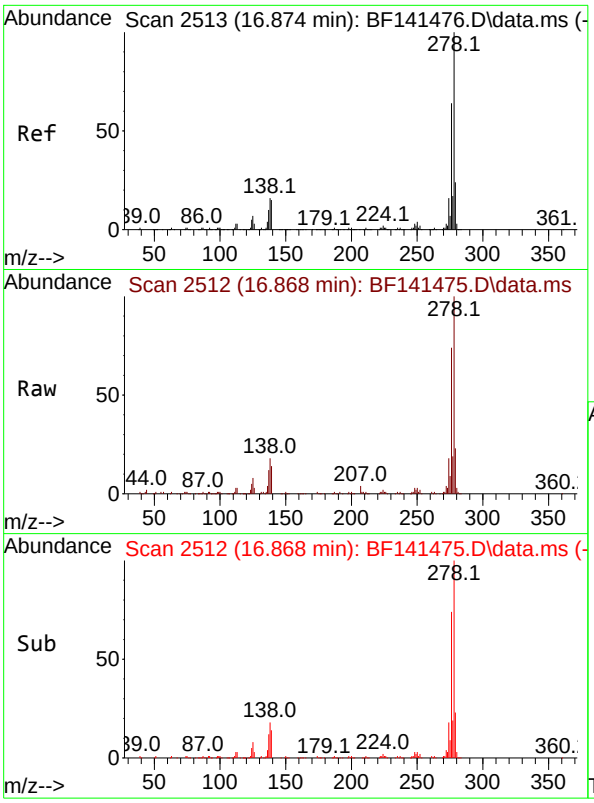


#90
Benzo(a)pyrene
Concen: 20.528 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 213510

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.5	7.4	11.2

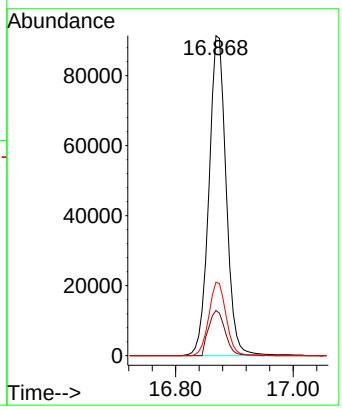




#91
Dibenzo(a,h)anthracene
Concen: 19.379 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:278 Resp: 18574

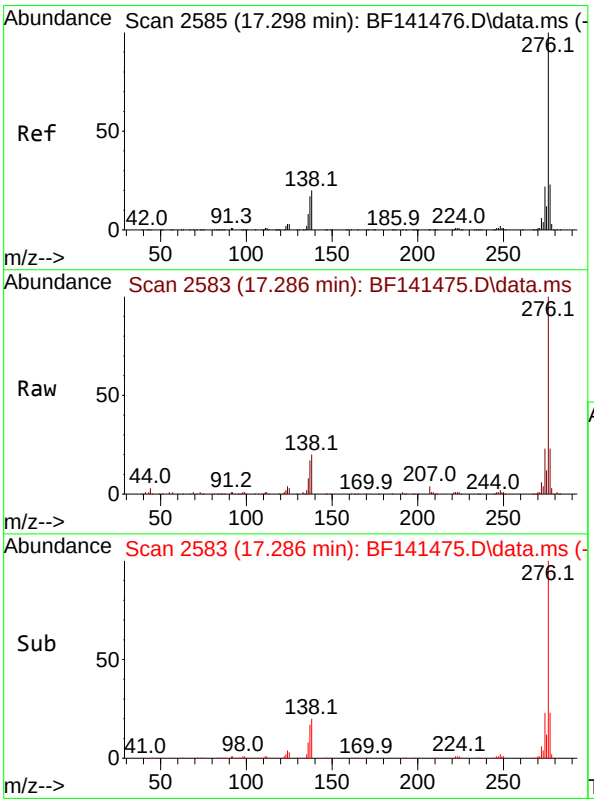
Ion	Ratio	Lower	Upper
278	100		
139	14.1	11.8	17.6
279	23.0	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

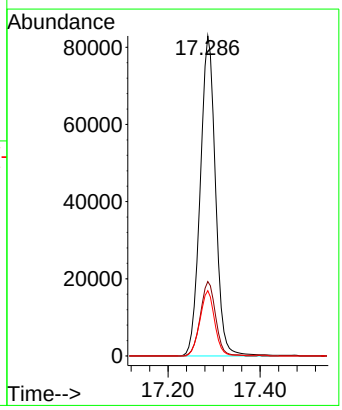
Reviewed By :Jagrut Upadhyay 02/07/2025
Supervised By :mohammad ahmed 02/07/2025



#92
Benzo(g,h,i)perylene
Concen: 19.103 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:276 Resp: 191595

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	20.4	15.9	23.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141476.D
Acq On : 06 Feb 2025 12:55
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	89095	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	351555	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193385	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	336425	20.000	ng	0.00
76) Chrysene-d12	13.957	240	225462	20.000	ng	0.00
86) Perylene-d12	15.415	264	182907	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	459422	80.841	ng	0.00
7) Phenol-d6	6.428	99	574808	80.025	ng	-0.01
23) Nitrobenzene-d5	7.357	82	540793	80.234	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	154725	79.647	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	981440	78.189	ng	0.00
79) Terphenyl-d14	12.904	244	1080174	80.879	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	92090	40.262	ng	100
3) Pyridine	3.210	79	225032	41.344	ng	100
4) n-Nitrosodimethylamine	3.163	42	145802	40.456	ng	100
6) Aniline	6.451	93	274102	40.681	ng	100
8) 2-Chlorophenol	6.581	128	245676	40.008	ng	100
9) Benzaldehyde	6.339	77	146382	38.350	ng	100
10) Phenol	6.445	94	300315	40.171	ng	100
11) bis(2-Chloroethyl)ether	6.528	93	225665	40.188	ng	100
12) 1,3-Dichlorobenzene	6.728	146	256806	39.613	ng	100
13) 1,4-Dichlorobenzene	6.804	146	262121	39.574	ng	100
14) 1,2-Dichlorobenzene	6.963	146	244757	39.814	ng	100
15) Benzyl Alcohol	6.934	79	224961	40.841	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	385739	40.130	ng	100
17) 2-Methylphenol	7.051	107	191970	39.951	ng	100
18) Hexachloroethane	7.298	117	98581	40.215	ng	100
19) n-Nitroso-di-n-propyla...	7.204	70	172712	40.198	ng	100
20) 3+4-Methylphenols	7.204	107	244439	40.024	ng	100
22) Acetophenone	7.198	105	346731	39.649	ng	100
24) Nitrobenzene	7.375	77	263188	40.044	ng	100
25) Isophorone	7.610	82	429323	39.948	ng	100
26) 2-Nitrophenol	7.686	139	135355	41.394	ng	100
27) 2,4-Dimethylphenol	7.728	122	156665	41.012	ng	100
28) bis(2-Chloroethoxy)met...	7.822	93	276730	40.185	ng	100
29) 2,4-Dichlorophenol	7.939	162	208390	40.375	ng	100
30) 1,2,4-Trichlorobenzene	8.016	180	222679	39.619	ng	100
31) Naphthalene	8.092	128	729358	39.856	ng	100
32) Benzoic acid	7.857	122	161196	40.625	ng	100
33) 4-Chloroaniline	8.151	127	255749	40.029	ng	100
34) Hexachlorobutadiene	8.210	225	135140	40.051	ng	100
35) Caprolactam	8.516	113	65155	41.461	ng	100
36) 4-Chloro-3-methylphenol	8.633	107	231344	40.464	ng	100
37) 2-Methylnaphthalene	8.786	142	470332	39.496	ng	100
38) 1-Methylnaphthalene	8.886	142	461189	39.987	ng	100
40) 1,2,4,5-Tetrachloroben...	8.951	216	225938	40.383	ng	100
41) Hexachlorocyclopentadiene	8.939	237	78762	42.325	ng	100
43) 2,4,6-Trichlorophenol	9.063	196	145682	40.288	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141476.D
Acq On : 06 Feb 2025 12:55
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

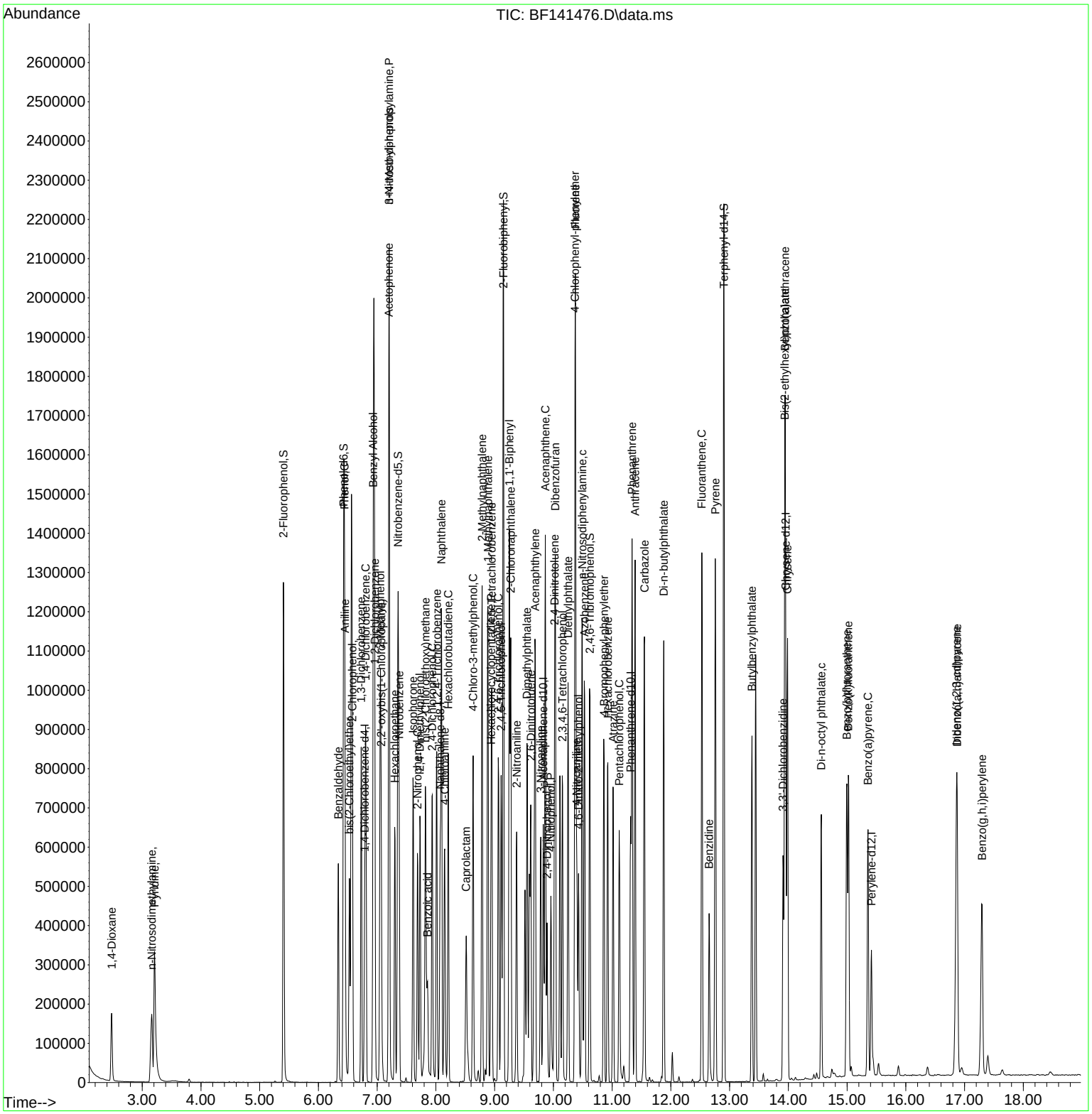
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	158685	40.492	ng	100
46) 1,1'-Biphenyl	9.251	154	597404	39.846	ng	100
47) 2-Chloronaphthalene	9.275	162	438926	39.590	ng	100
48) 2-Nitroaniline	9.375	65	150922	40.563	ng	100
49) Acenaphthylene	9.692	152	656124	39.789	ng	100
50) Dimethylphthalate	9.551	163	520384	39.638	ng	100
51) 2,6-Dinitrotoluene	9.616	165	116338	40.536	ng	100
52) Acenaphthene	9.863	154	445515	40.186	ng	100
53) 3-Nitroaniline	9.786	138	123530	39.991	ng	100
54) 2,4-Dinitrophenol	9.892	184	68489	40.153	ng	100
55) Dibenzofuran	10.033	168	647242	39.775	ng	100
56) 4-Nitrophenol	9.957	139	96456	42.065	ng	100
57) 2,4-Dinitrotoluene	10.022	165	153824	40.262	ng	100
58) Fluorene	10.375	166	498929	39.654	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	134581	39.888	ng	100
60) Diethylphthalate	10.251	149	514358	39.821	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	240707	39.767	ng	100
62) 4-Nitroaniline	10.398	138	129392	41.253	ng	100
63) Azobenzene	10.527	77	512692	39.926	ng	100
65) 4,6-Dinitro-2-methylph...	10.427	198	95521	40.874	ng	100
66) n-Nitrosodiphenylamine	10.492	169	421937	39.180	ng	100
67) 4-Bromophenyl-phenylether	10.863	248	148603	39.522	ng	100
68) Hexachlorobenzene	10.927	284	152664	39.430	ng	100
69) Atrazine	11.016	200	124494	38.533	ng	100
70) Pentachlorophenol	11.122	266	103806	41.930	ng	100
71) Phenanthrene	11.339	178	729585	39.397	ng	100
72) Anthracene	11.392	178	728337	39.125	ng	100
73) Carbazole	11.551	167	663523	39.613	ng	100
74) Di-n-butylphthalate	11.880	149	767961	39.706	ng	100
75) Fluoranthene	12.527	202	774369	39.441	ng	100
77) Benzidine	12.651	184	238261	47.917	ng	100
78) Pyrene	12.757	202	786956	41.002	ng	100
80) Butylbenzylphthalate	13.380	149	274711	41.323	ng	100
81) Benzo(a)anthracene	13.945	228	606669	40.479	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	170181	39.640	ng	100
83) Chrysene	13.986	228	541376	39.121	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	310696	41.438	ng	100
85) Di-n-octyl phthalate	14.562	149	435142	40.682	ng	100
87) Indeno(1,2,3-cd)pyrene	16.862	276	471272	41.699	ng	100
88) Benzo(b)fluoranthene	14.998	252	488585	39.783	ng	100
89) Benzo(k)fluoranthene	15.021	252	417770	39.836	ng	100
90) Benzo(a)pyrene	15.357	252	395193	39.767	ng	100
91) Dibenzo(a,h)anthracene	16.874	278	384623	42.001	ng	100
92) Benzo(g,h,i)perylene	17.298	276	402413	41.992	ng	100

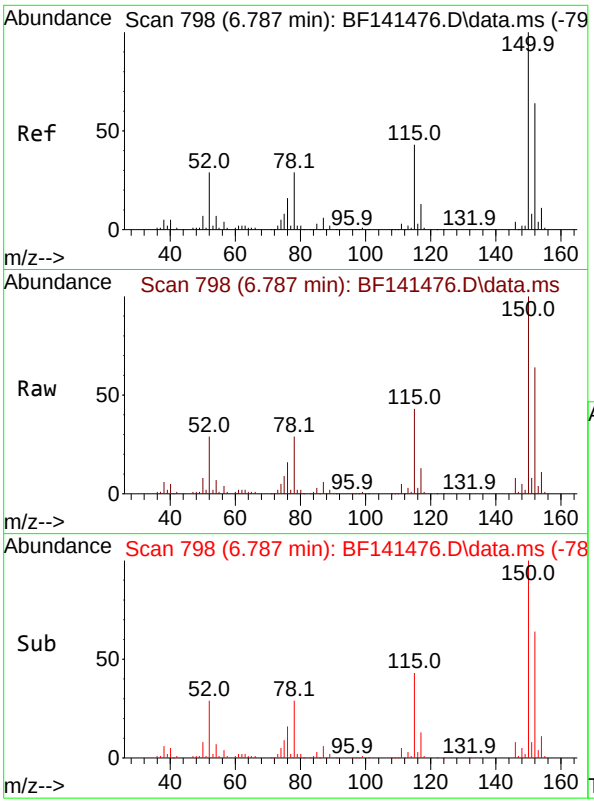
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141476.D
Acq On : 06 Feb 2025 12:55
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Feb 06 16:00:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



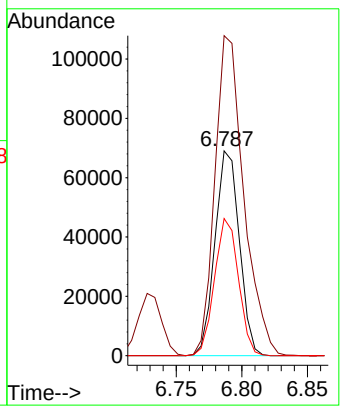


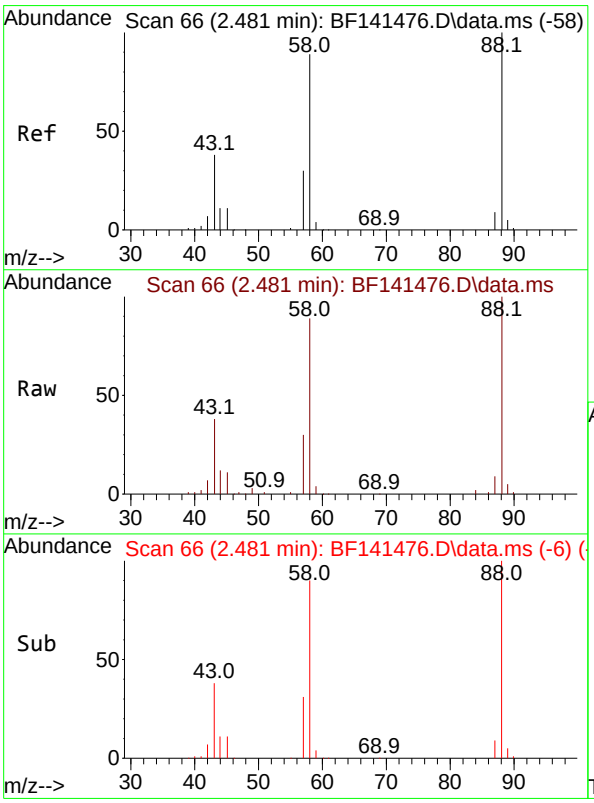
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 89095

Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.0	187.4
115	67.0	53.6	80.4

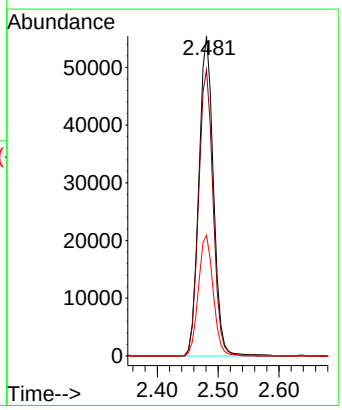


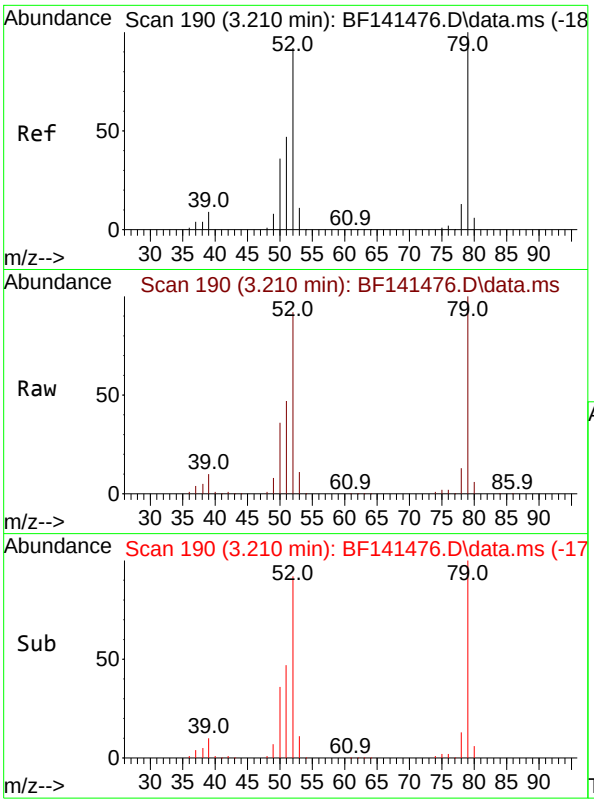


#2
1,4-Dioxane
Concen: 40.262 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 88 Resp: 92090

Ion	Ratio	Lower	Upper
88	100		
58	88.9	71.1	106.7
43	38.3	30.6	46.0



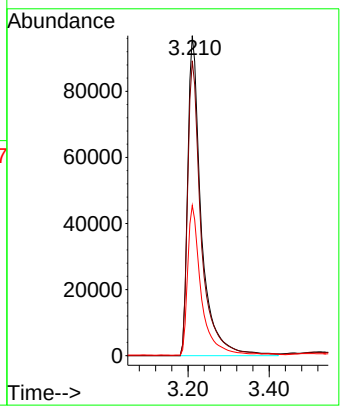


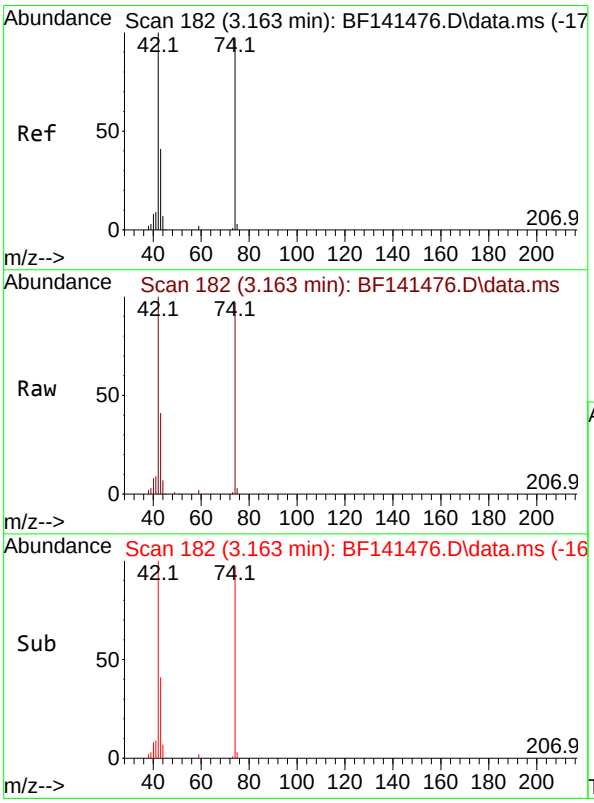
#3
Pyridine
Concen: 41.344 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 225032

Ion	Ratio	Lower	Upper
79	100		
52	92.1	73.7	110.5
51	46.9	37.5	56.3

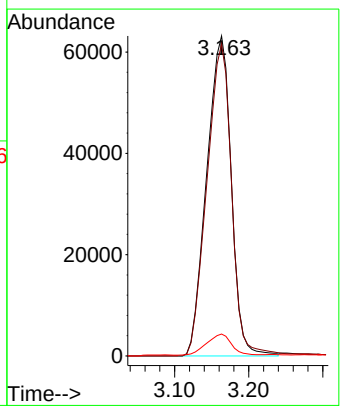


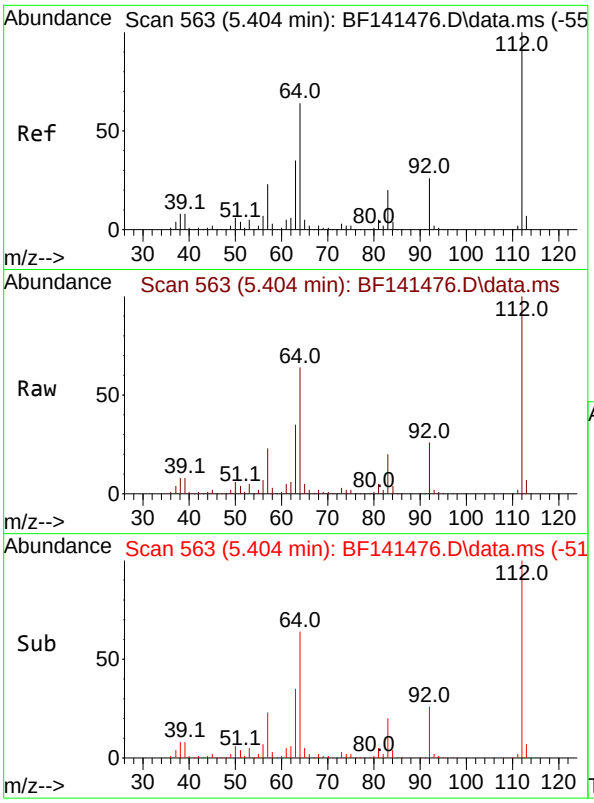


#4
n-Nitrosodimethylamine
Concen: 40.456 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.023 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 42 Resp: 145802

Ion	Ratio	Lower	Upper
42	100		
74	97.5	78.0	117.0
44	6.8	5.4	8.2



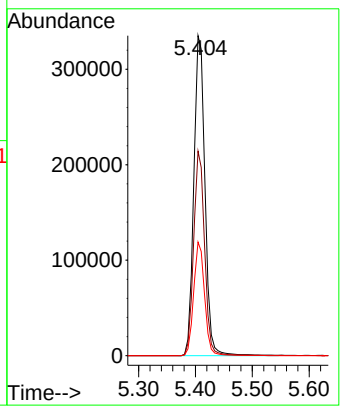


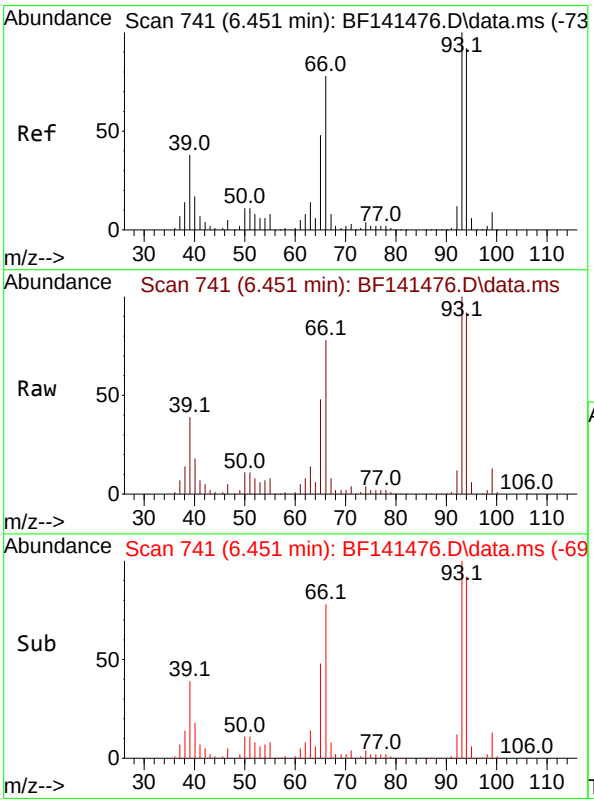
#5
2-Fluorophenol
Concen: 80.841 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 459422

Ion	Ratio	Lower	Upper
112	100		
64	63.9	51.1	76.7
63	35.5	28.4	42.6

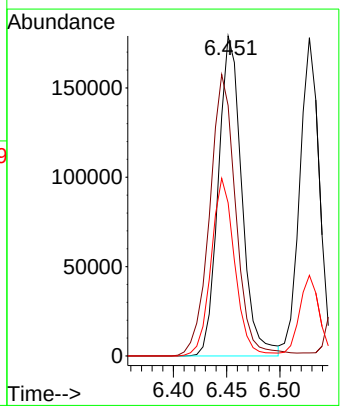


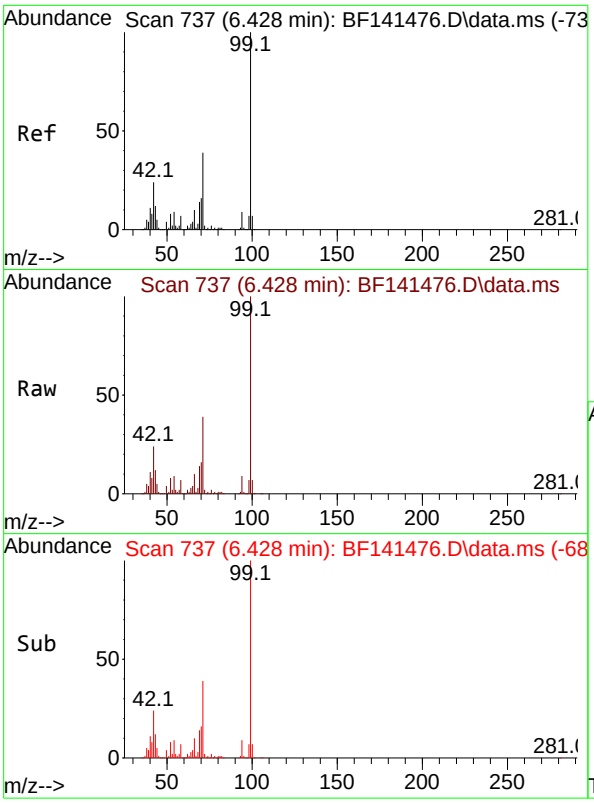


#6
Aniline
Concen: 40.681 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 93 Resp: 274102

Ion	Ratio	Lower	Upper
93	100		
66	78.3	62.6	94.0
65	47.9	38.3	57.5



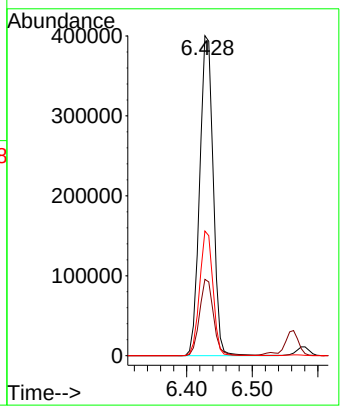


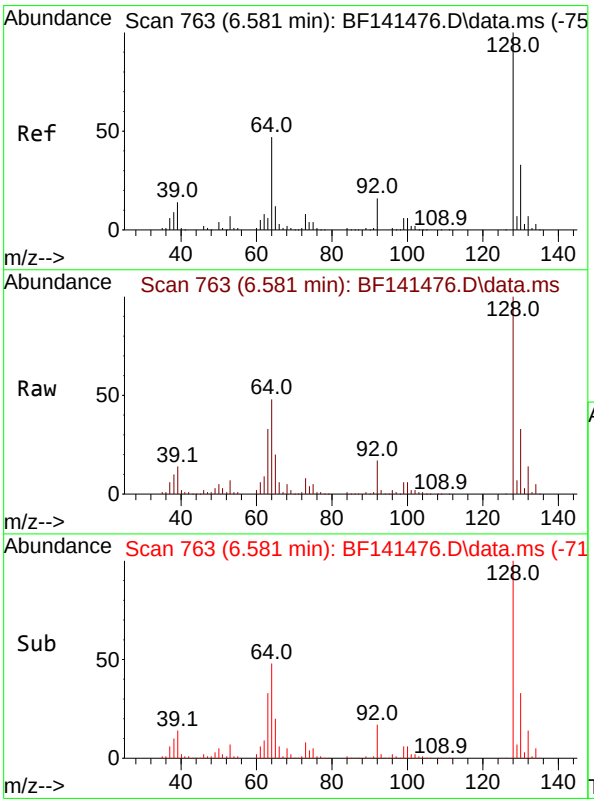
#7
Phenol-d6
Concen: 80.025 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 574808

Ion	Ratio	Lower	Upper
99	100		
42	23.9	19.1	28.7
71	38.9	31.1	46.7

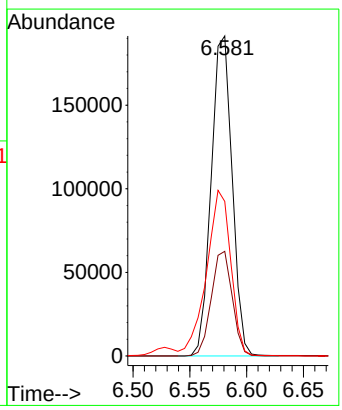


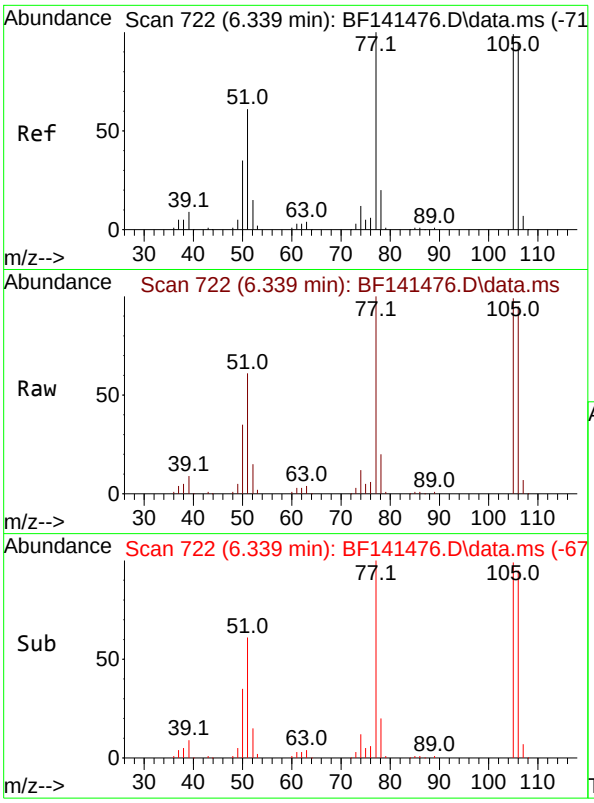


#8
2-Chlorophenol
Concen: 40.008 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:128 Resp: 245676

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.7	52.7
64	48.3	28.3	68.3



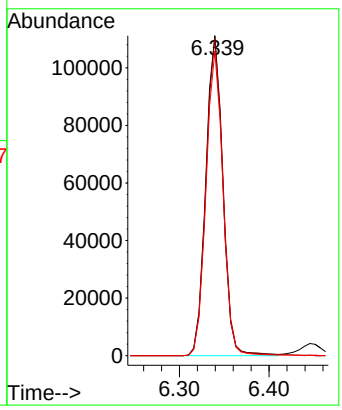


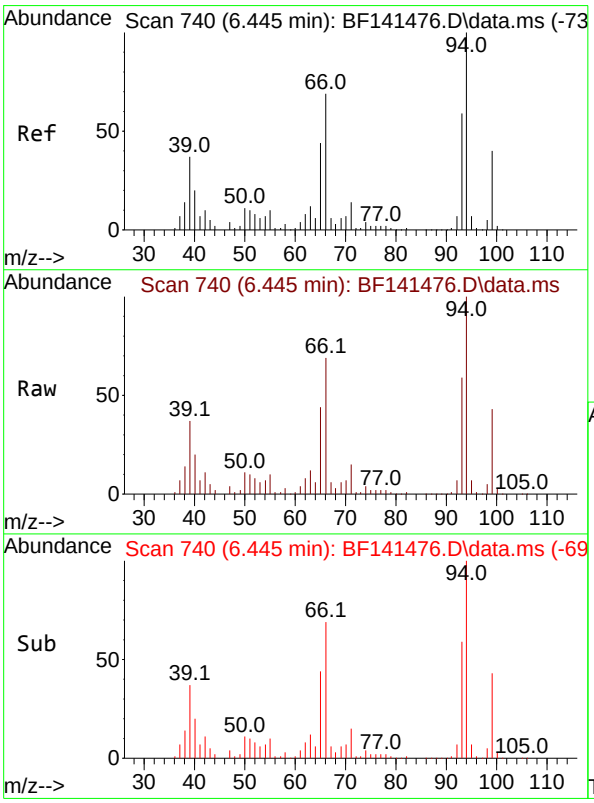
#9
Benzaldehyde
Concen: 38.350 ng
RT: 6.339 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 146382

Ion	Ratio	Lower	Upper
77	100		
105	99.4	79.4	119.4
106	95.1	75.1	115.1

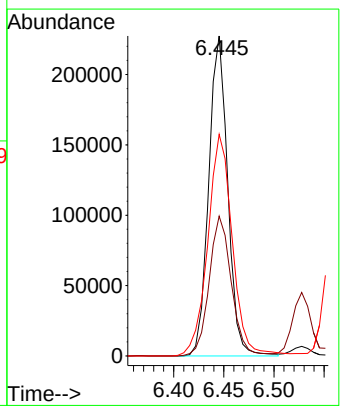


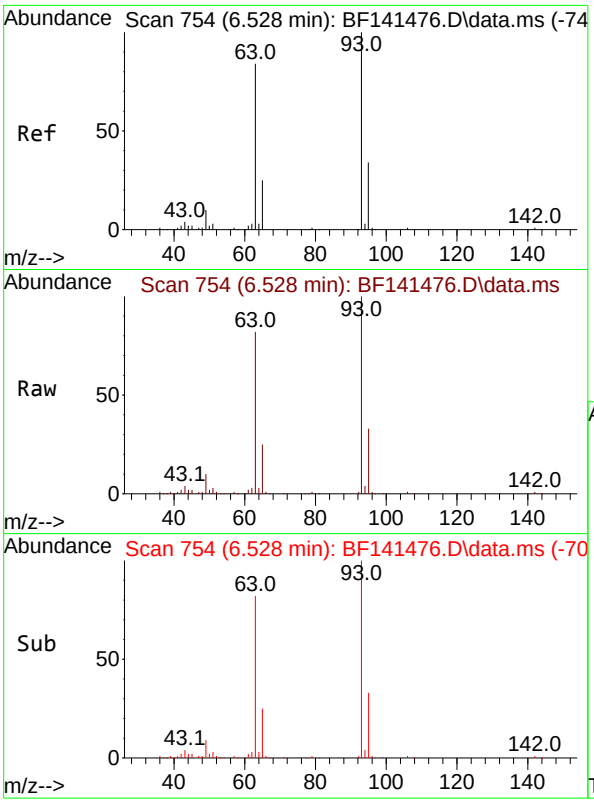


#10
Phenol
Concen: 40.171 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 94 Resp: 300315

Ion	Ratio	Lower	Upper
94	100		
65	43.7	23.7	63.7
66	69.3	49.3	89.3



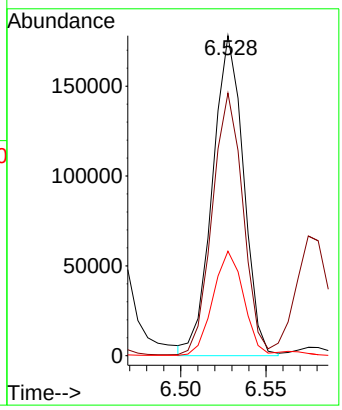


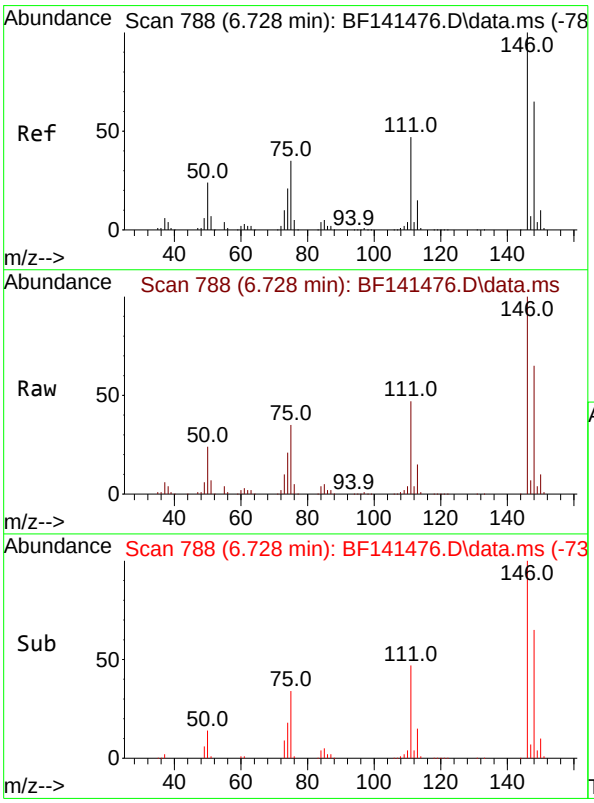
#11
bis(2-Chloroethyl)ether
Concen: 40.188 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 225665

Ion	Ratio	Lower	Upper
93	100		
63	82.0	62.0	102.0
95	32.6	12.6	52.6

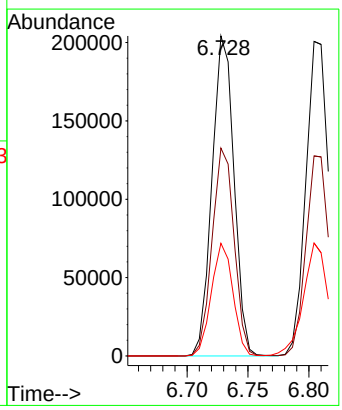


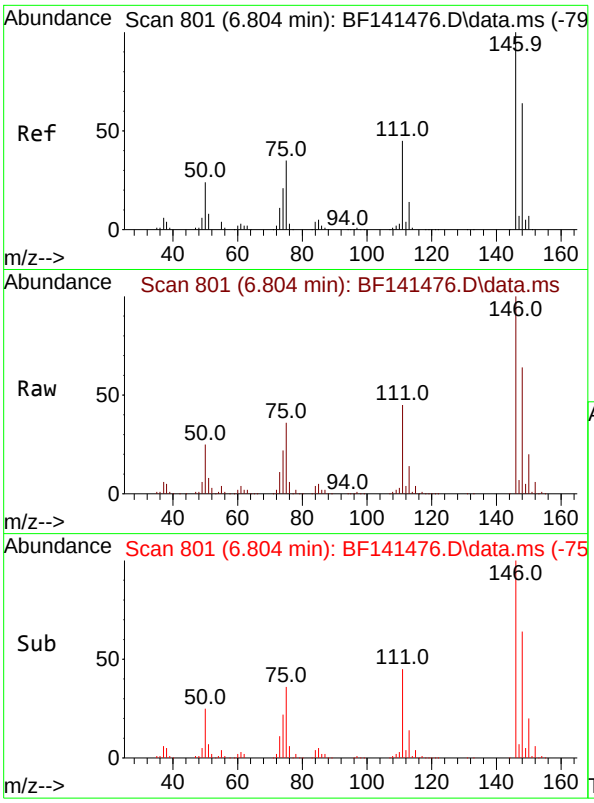


#12
1,3-Dichlorobenzene
Concen: 39.613 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:146 Resp: 256806

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
75	35.2	28.2	42.2



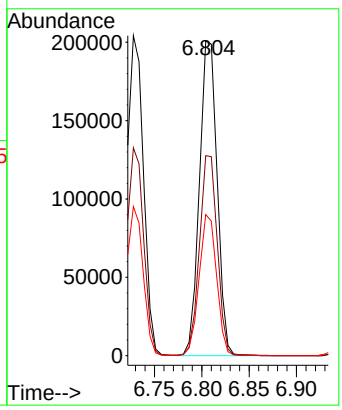


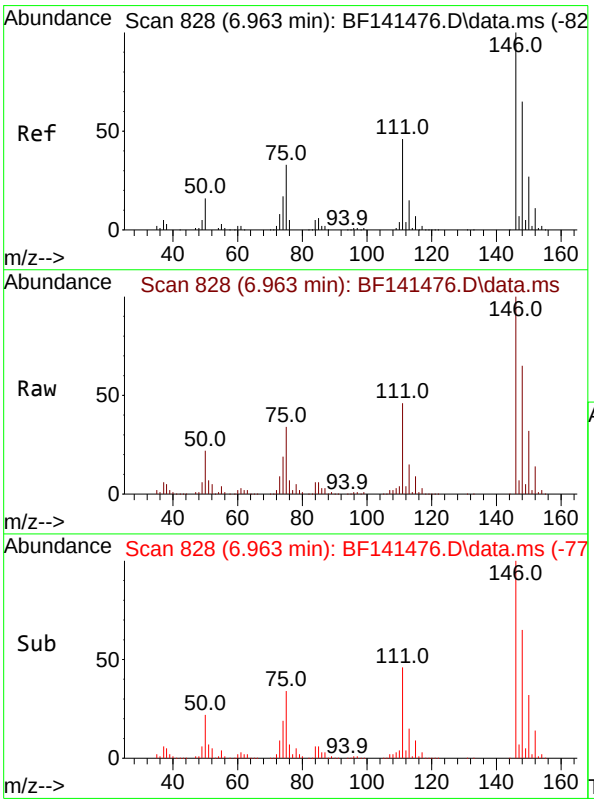
#13
1,4-Dichlorobenzene
Concen: 39.574 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 262121

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.9	76.3
111	44.9	35.9	53.9

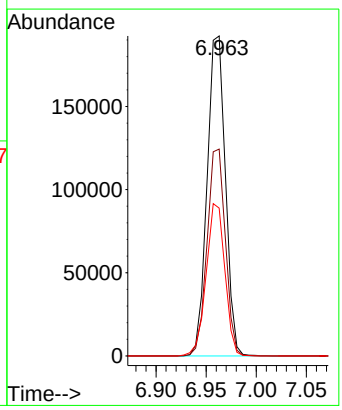


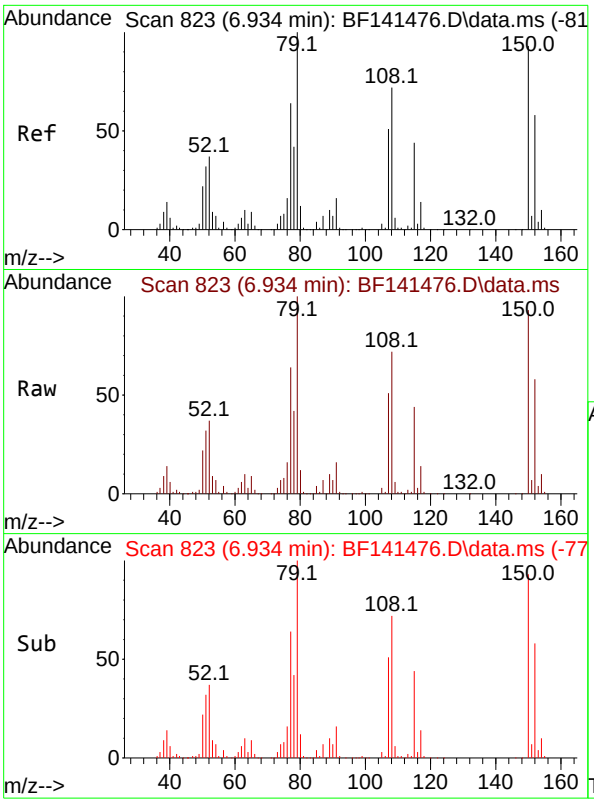


#14
1,2-Dichlorobenzene
Concen: 39.814 ng
RT: 6.963 min Scan# 828
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:146 Resp: 244757

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
111	46.2	37.0	55.4



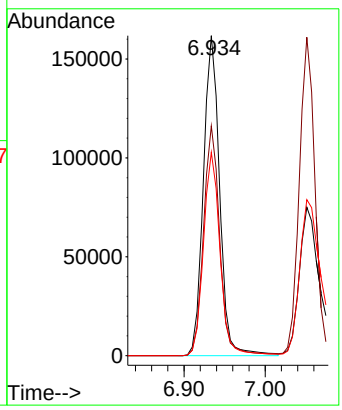


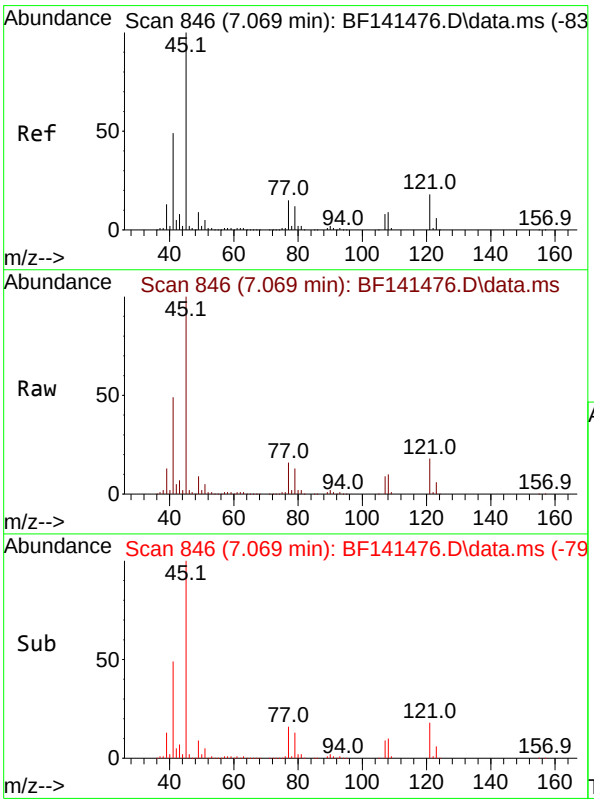
#15
Benzyl Alcohol
Concen: 40.841 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 224961

Ion	Ratio	Lower	Upper
79	100		
108	71.8	57.4	86.2
77	63.6	50.9	76.3

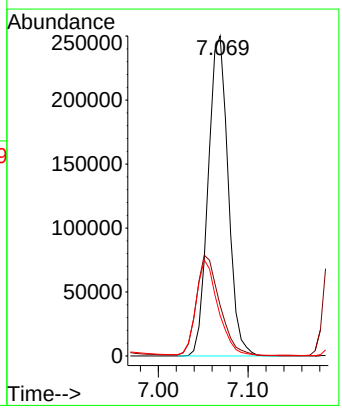


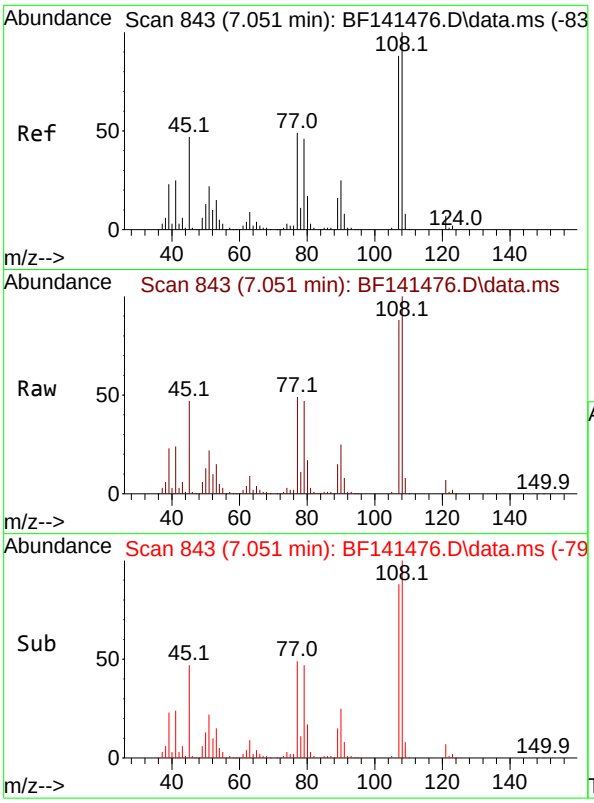


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.130 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 45 Resp: 385739

Ion	Ratio	Lower	Upper
45	100		
77	15.8	0.0	35.8
79	12.7	0.0	32.7



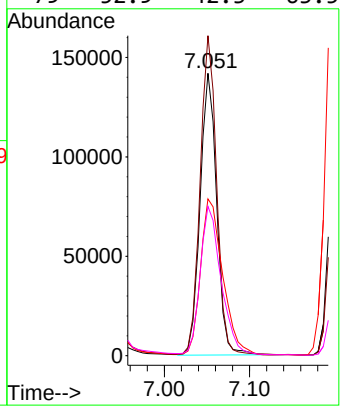


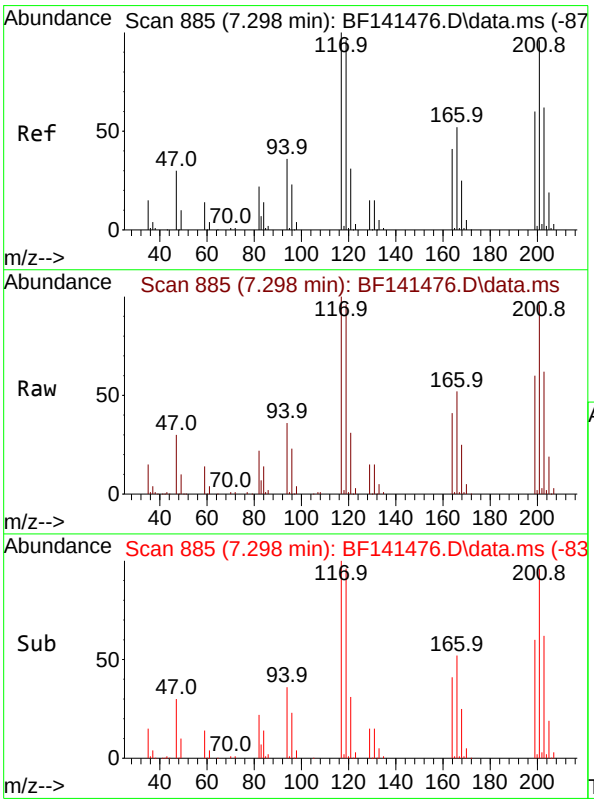
#17
2-Methylphenol
Concen: 39.951 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 191970

Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	136.0
77	55.5	44.4	66.6
79	52.9	42.3	63.5

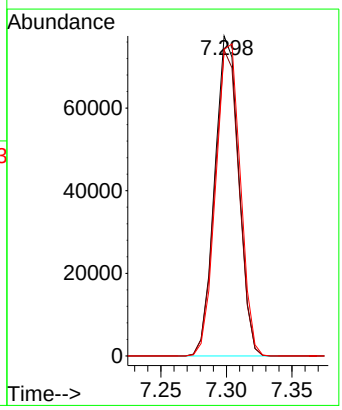


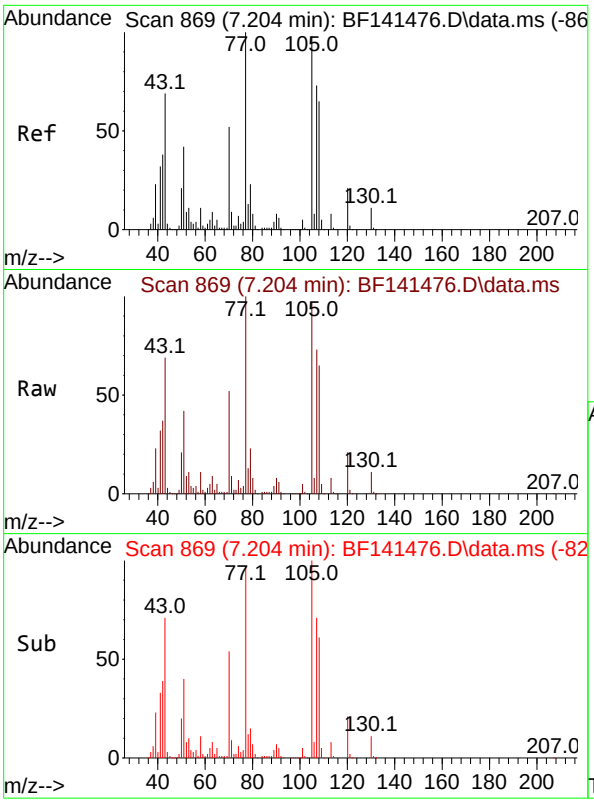


#18
Hexachloroethane
Concen: 40.215 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:117 Resp: 98581

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.5	114.7
201	95.9	76.7	115.1



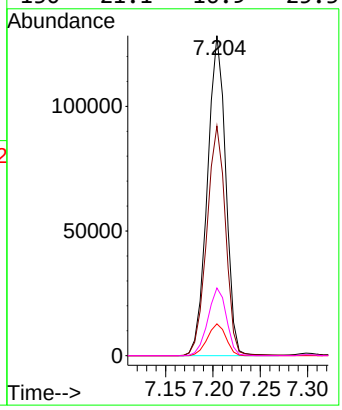


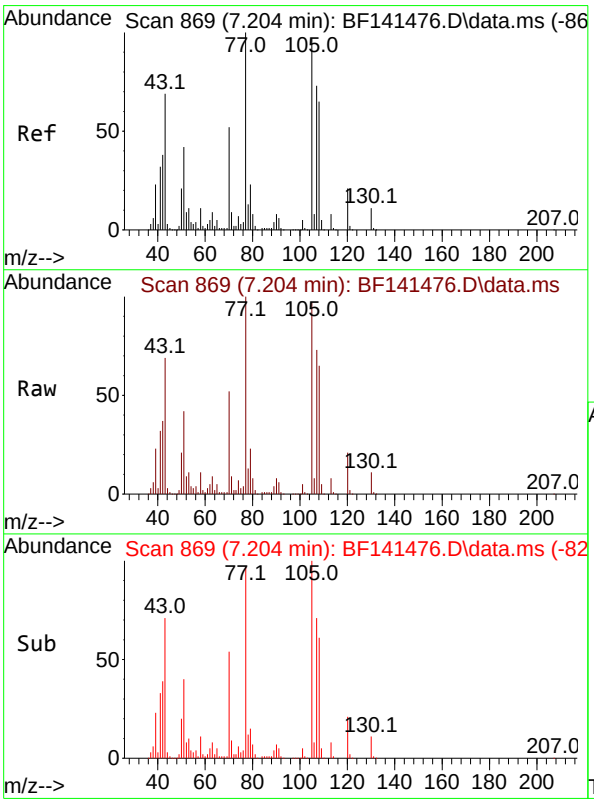
#19
n-Nitroso-di-n-propylamine
Concen: 40.198 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 172712

Ion	Ratio	Lower	Upper
70	100		
42	71.8	57.4	86.2
101	10.0	8.0	12.0
130	21.1	16.9	25.3

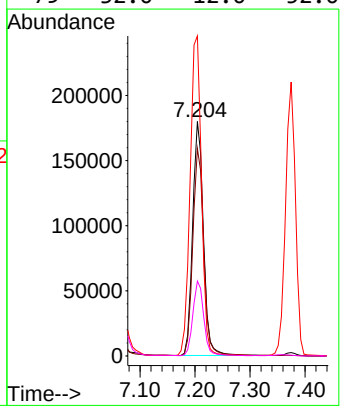


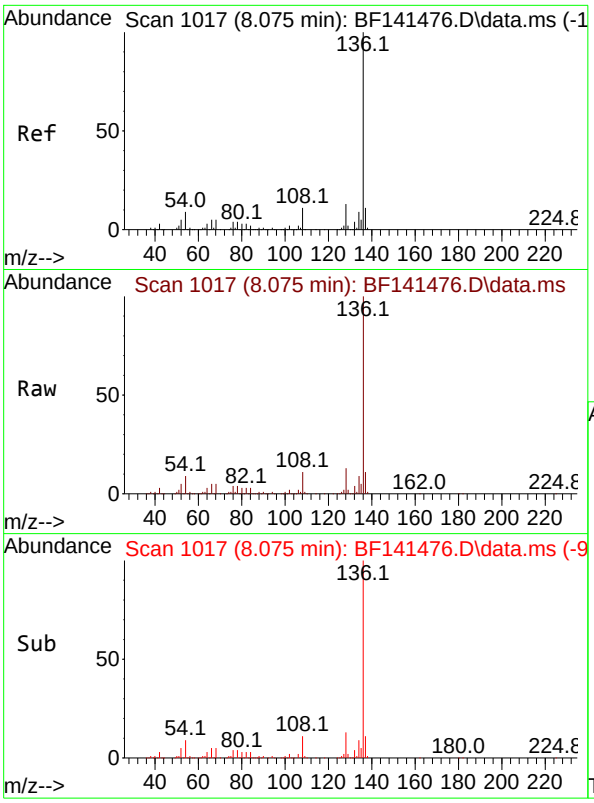


#20
3+4-Methylphenols
Concen: 40.024 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:107 Resp: 244439

Ion	Ratio	Lower	Upper
107	100		
108	88.5	68.5	108.5
77	136.5	116.5	156.5
79	32.0	12.0	52.0



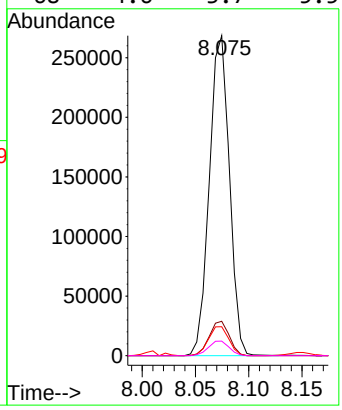


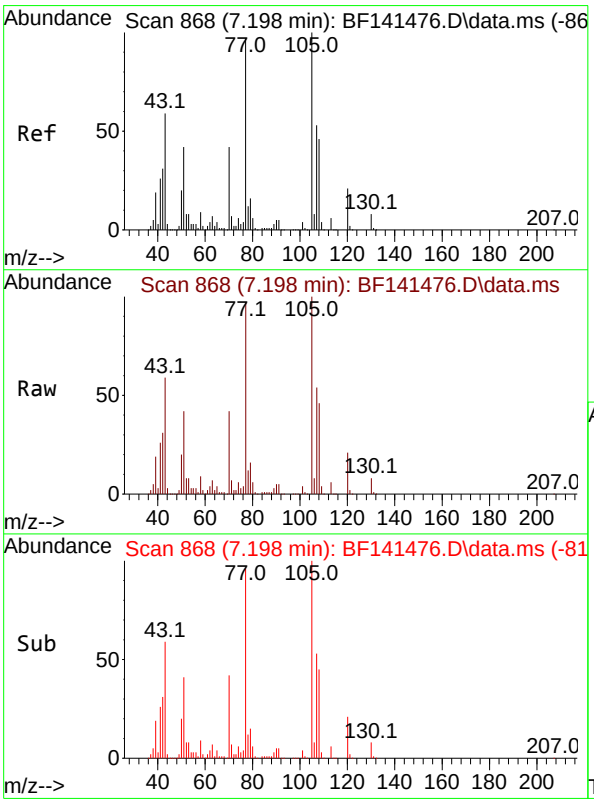
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 351555

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.0	7.2	10.8
68	4.6	3.7	5.5

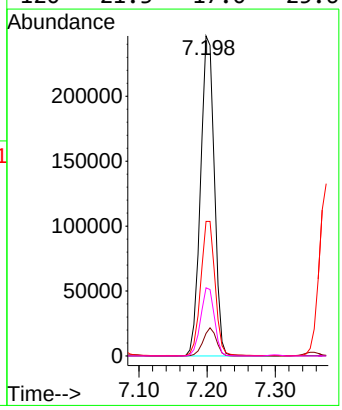


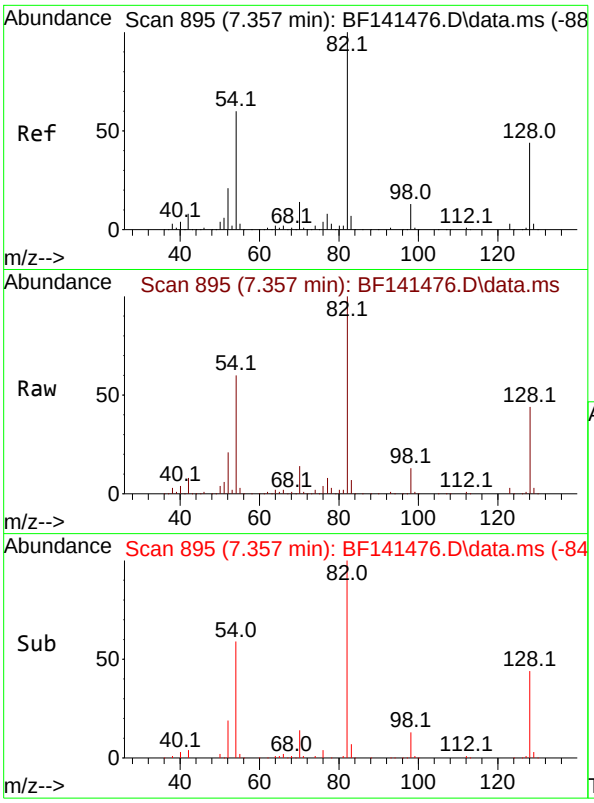


#22
Acetophenone
Concen: 39.649 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:105 Resp: 346731

Ion	Ratio	Lower	Upper
105	100		
71	7.1	5.7	8.5
51	42.1	33.7	50.5
120	21.3	17.0	25.6



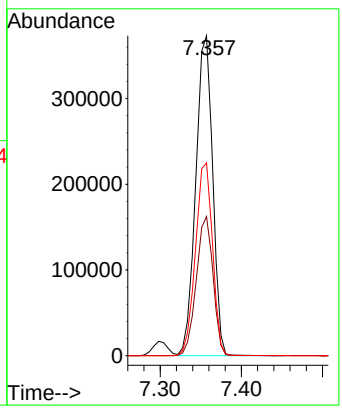


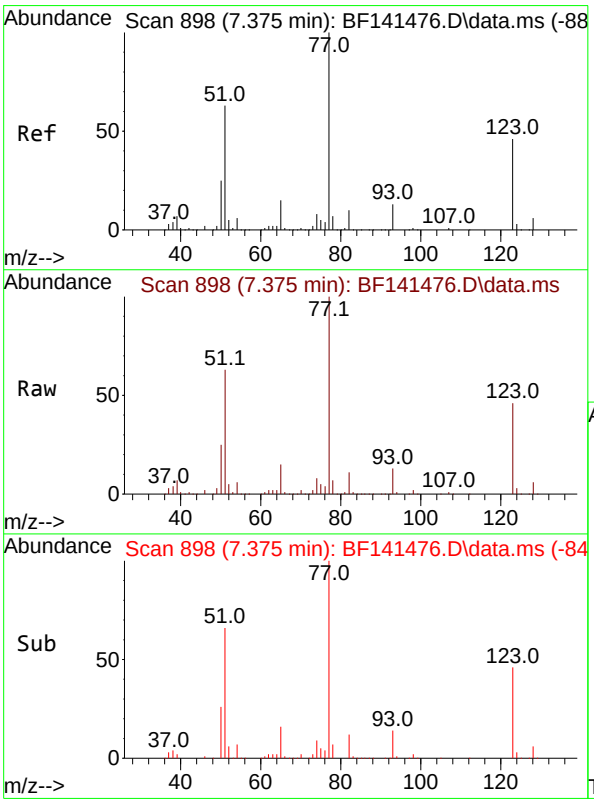
#23
Nitrobenzene-d5
Concen: 80.234 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 540793

Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	60.3	48.2	72.4

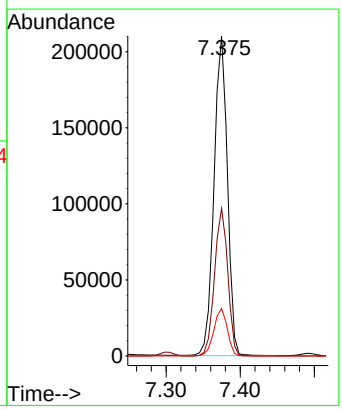


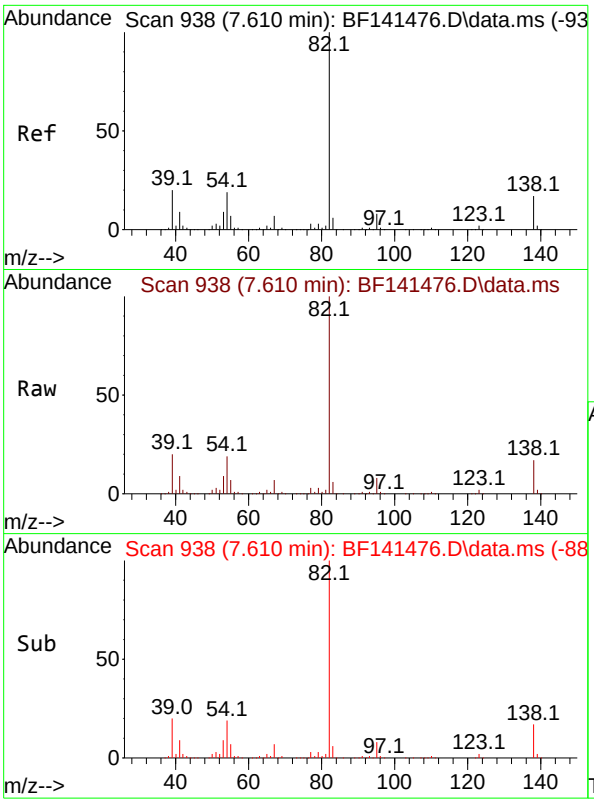


#24
Nitrobenzene
Concen: 40.044 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 77 Resp: 263188

Ion	Ratio	Lower	Upper
77	100		
123	46.1	36.9	55.3
65	14.9	11.9	17.9



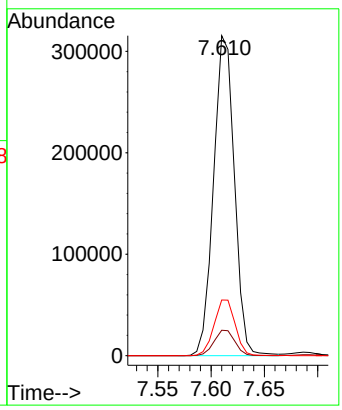


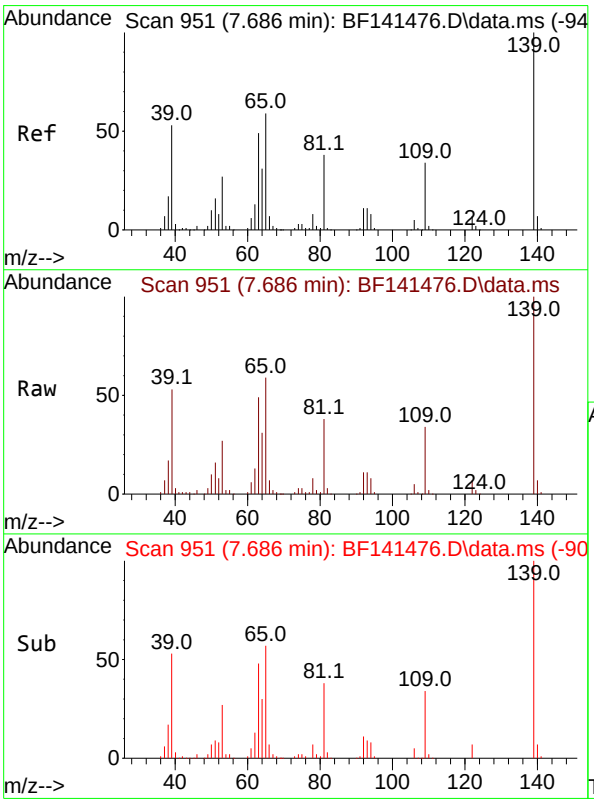
#25
Isophorone
Concen: 39.948 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 429323

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	17.4	13.9	20.9

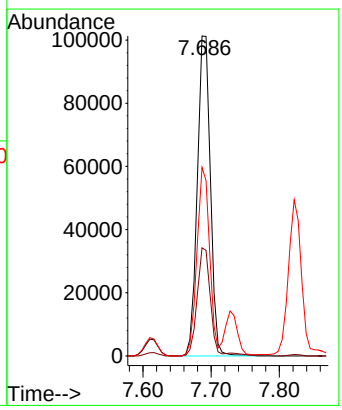


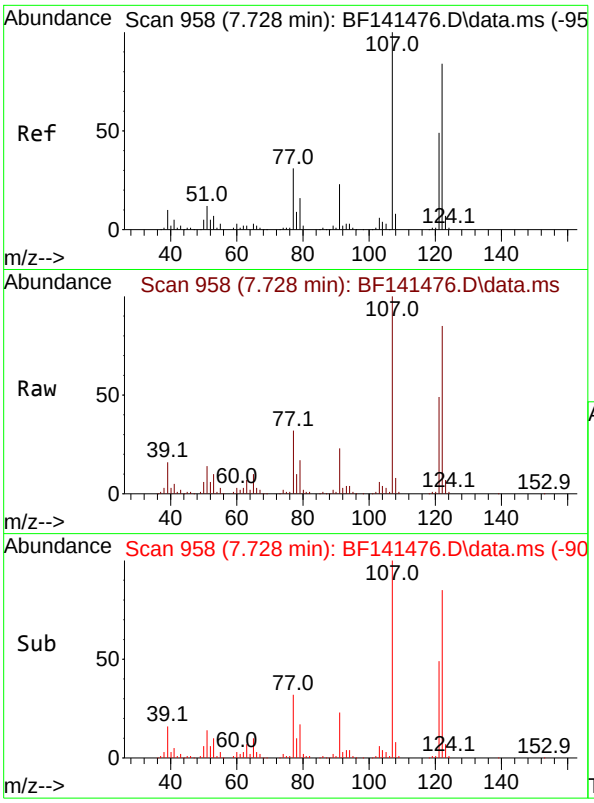


#26
2-Nitrophenol
Concen: 41.394 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:139 Resp: 135355

Ion	Ratio	Lower	Upper
139	100		
109	33.8	27.0	40.6
65	58.9	47.1	70.7



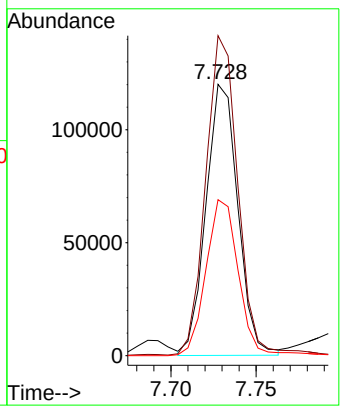


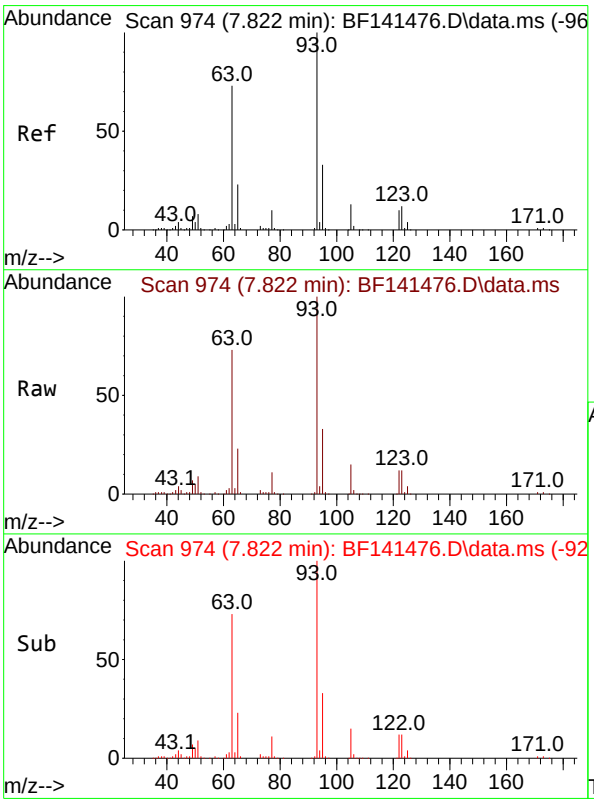
#27
2,4-Dimethylphenol
Concen: 41.012 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 156665

Ion	Ratio	Lower	Upper
122	100		
107	117.9	94.3	141.5
121	57.5	46.0	69.0

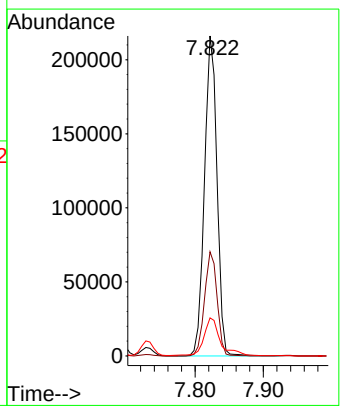


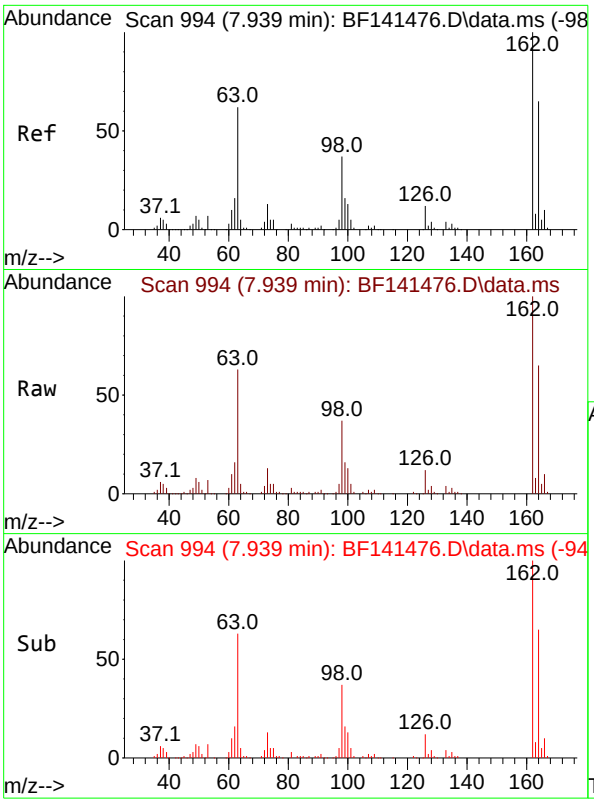


#28
bis(2-Chloroethoxy)methane
Concen: 40.185 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 93 Resp: 276730

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.1	39.1
123	11.9	9.5	14.3



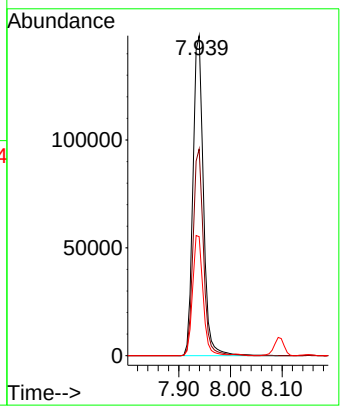


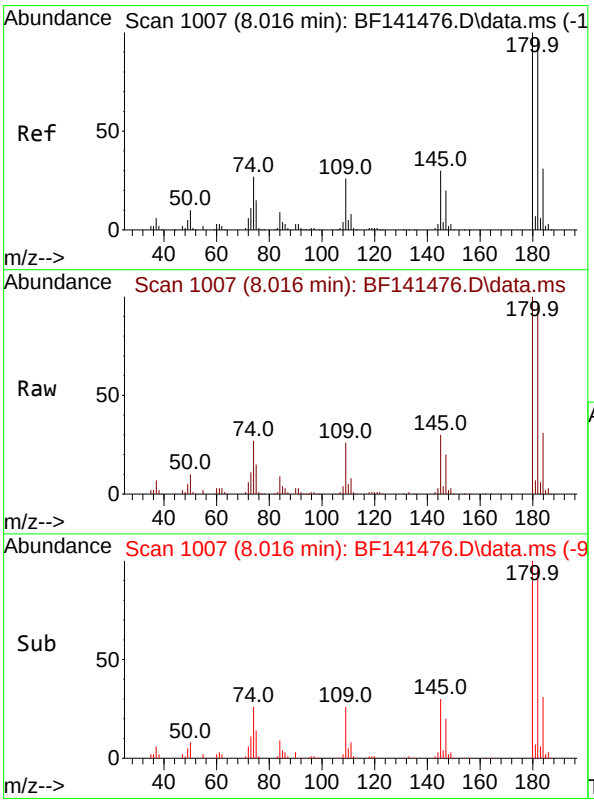
#29
2,4-Dichlorophenol
Concen: 40.375 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 208390

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.6	84.6
98	37.2	17.2	57.2

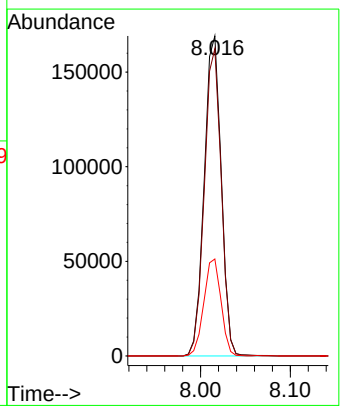


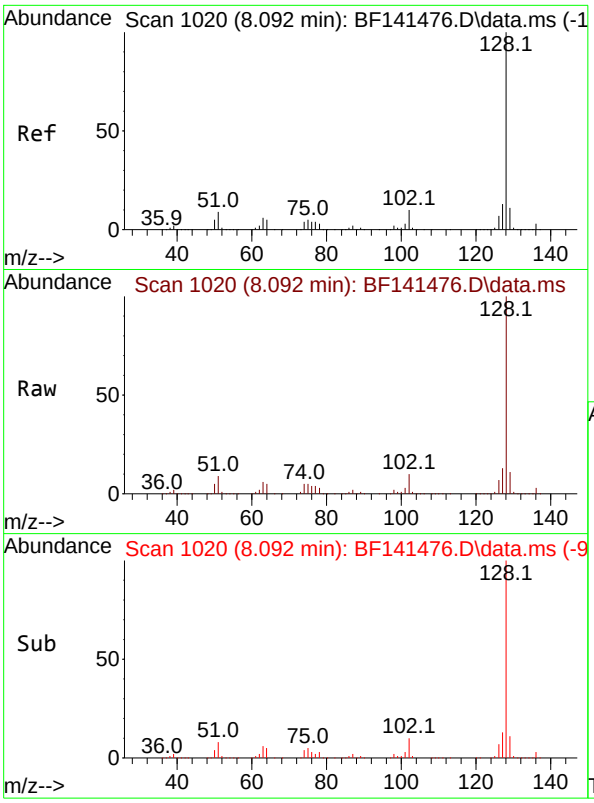


#30
1,2,4-Trichlorobenzene
Concen: 39.619 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:180 Resp: 222679

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	30.3	24.2	36.4



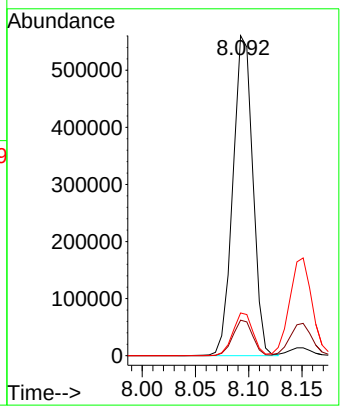


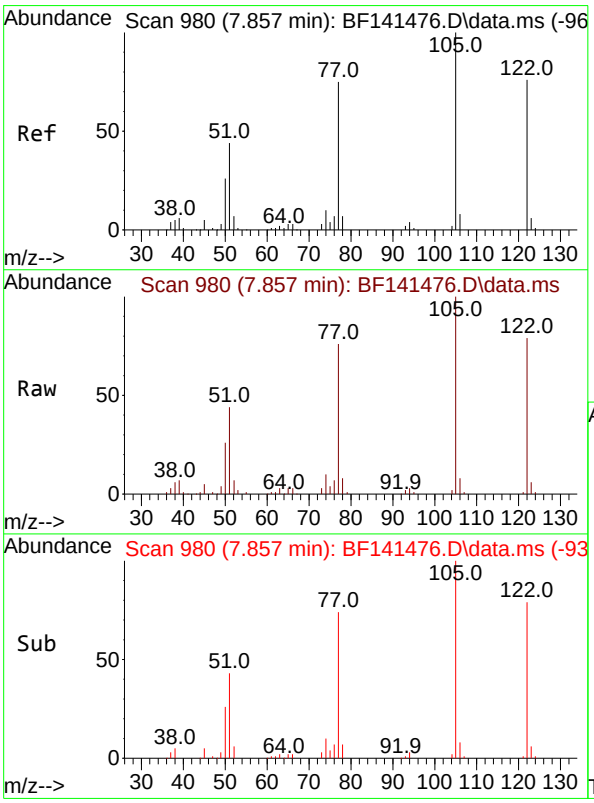
#31
Naphthalene
Concen: 39.856 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 729358

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

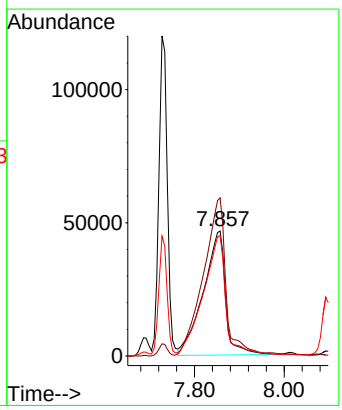


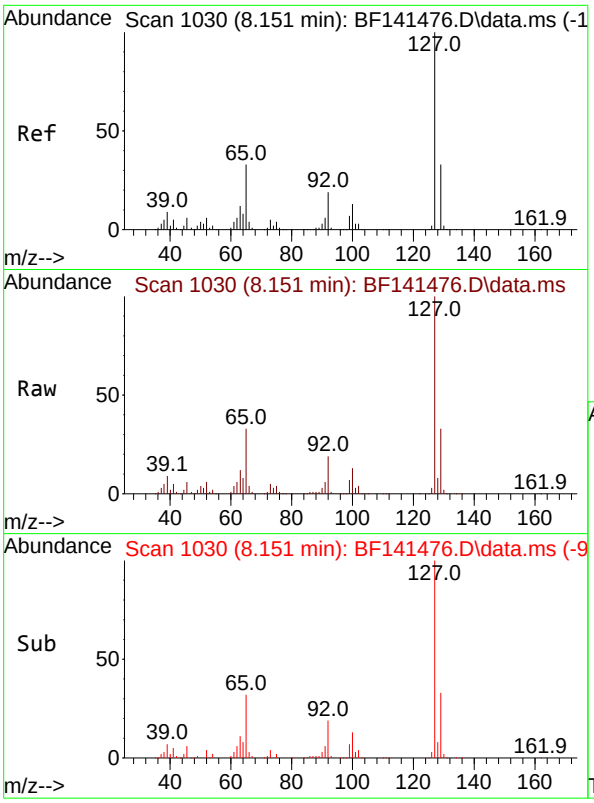


#32
Benzoic acid
Concen: 40.625 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:122 Resp: 161196

Ion	Ratio	Lower	Upper
122	100		
105	126.5	106.5	146.5
77	96.3	76.3	116.3



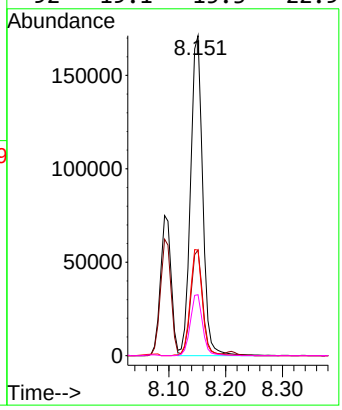


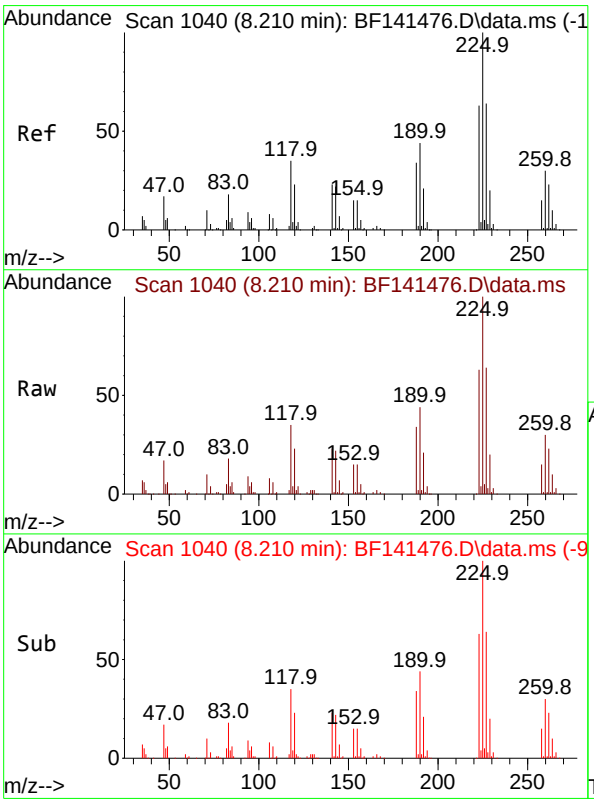
#33
4-Chloroaniline
Concen: 40.029 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 255749

Ion	Ratio	Lower	Upper
127	100		
129	33.1	26.5	39.7
65	33.0	26.4	39.6
92	19.1	15.3	22.9

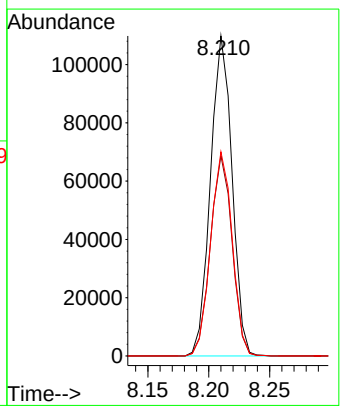


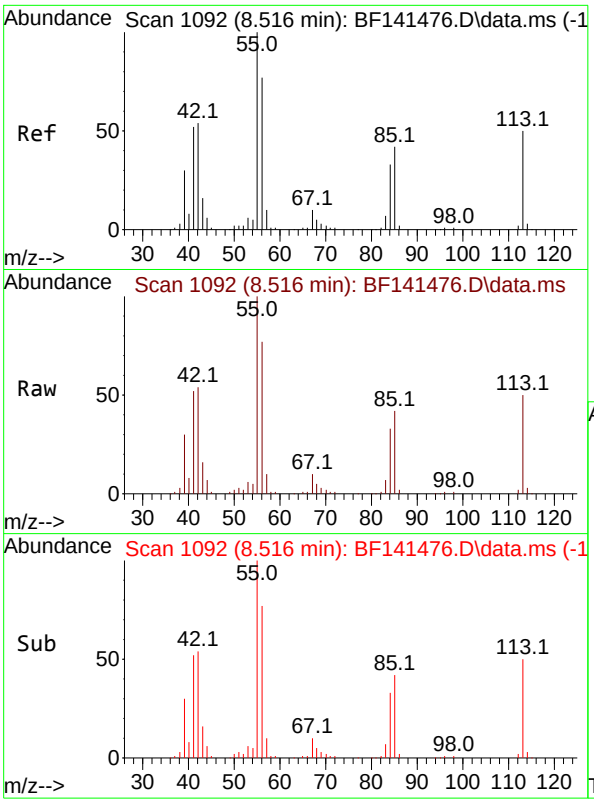


#34
Hexachlorobutadiene
Concen: 40.051 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:225 Resp: 135140

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	63.8	51.0	76.6



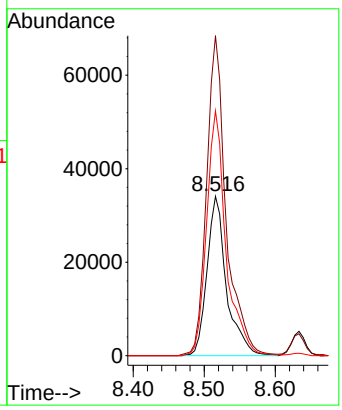


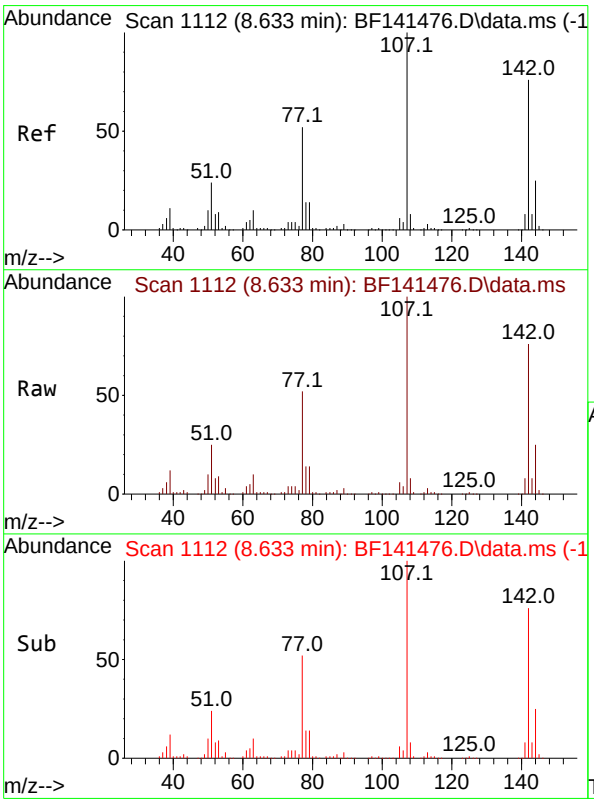
#35
Caprolactam
Concen: 41.461 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 65155

Ion	Ratio	Lower	Upper
113	100		
55	200.8	180.8	220.8
56	153.6	133.6	173.6

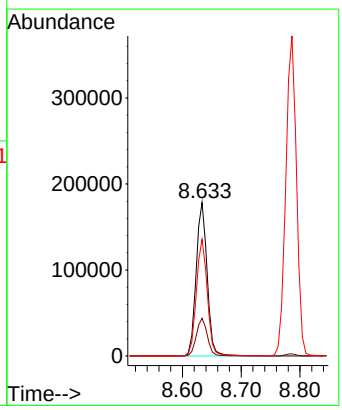


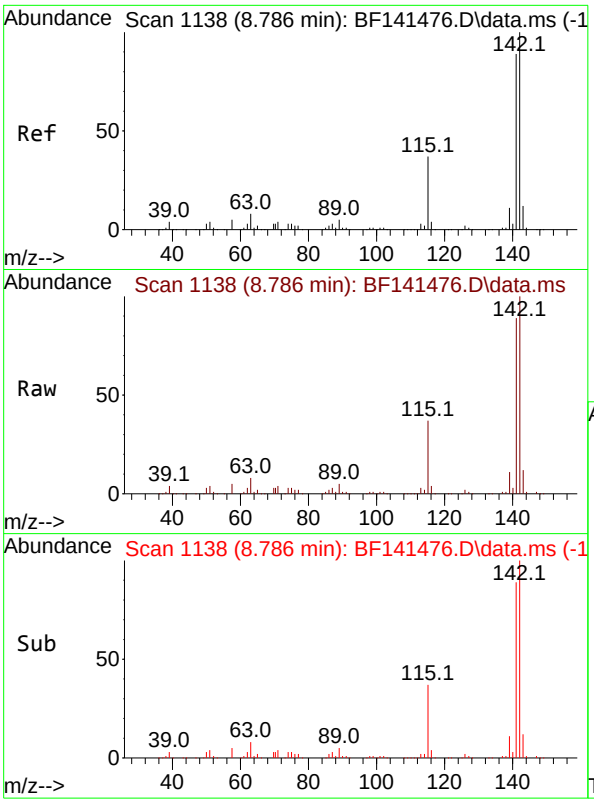


#36
4-Chloro-3-methylphenol
Concen: 40.464 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:107 Resp: 231344

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.7	29.5
142	76.0	60.8	91.2



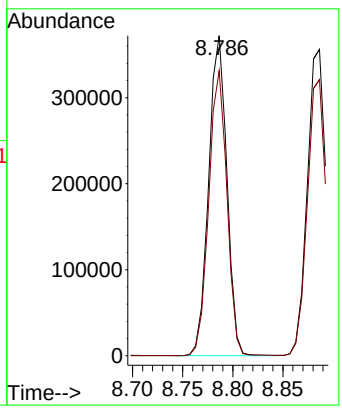


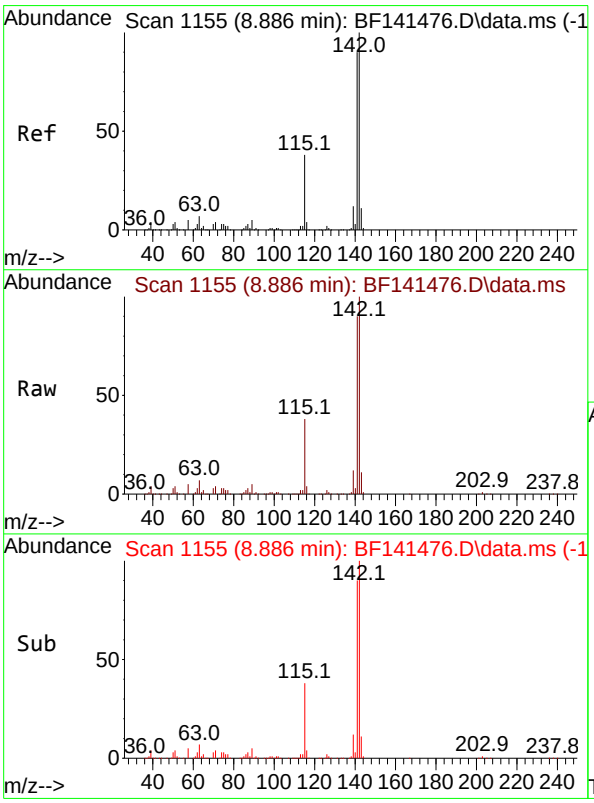
#37
2-Methylnaphthalene
Concen: 39.496 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 470332

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8

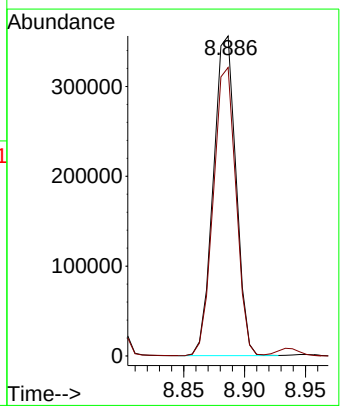


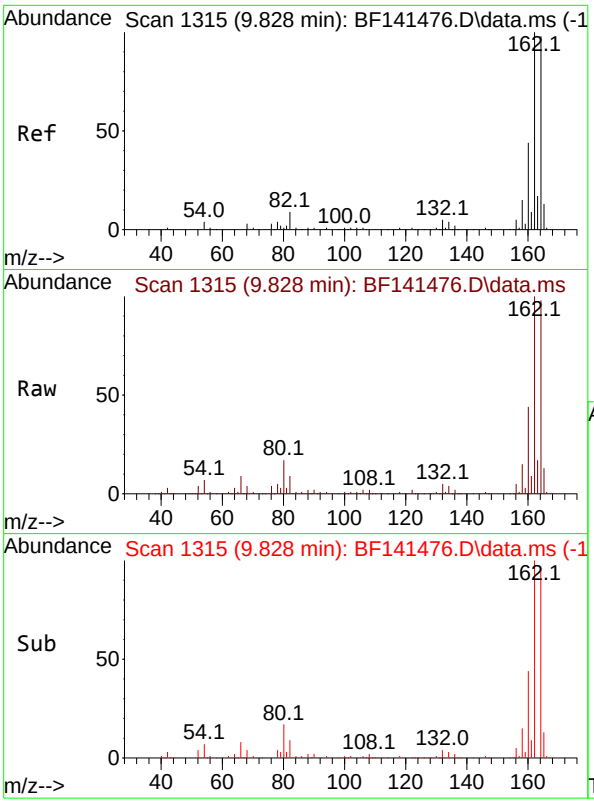


#38
1-Methylnaphthalene
Concen: 39.987 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:142 Resp: 461189

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.1	108.1



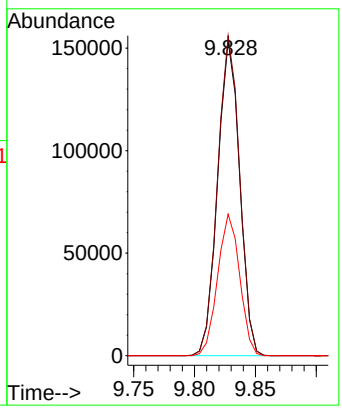


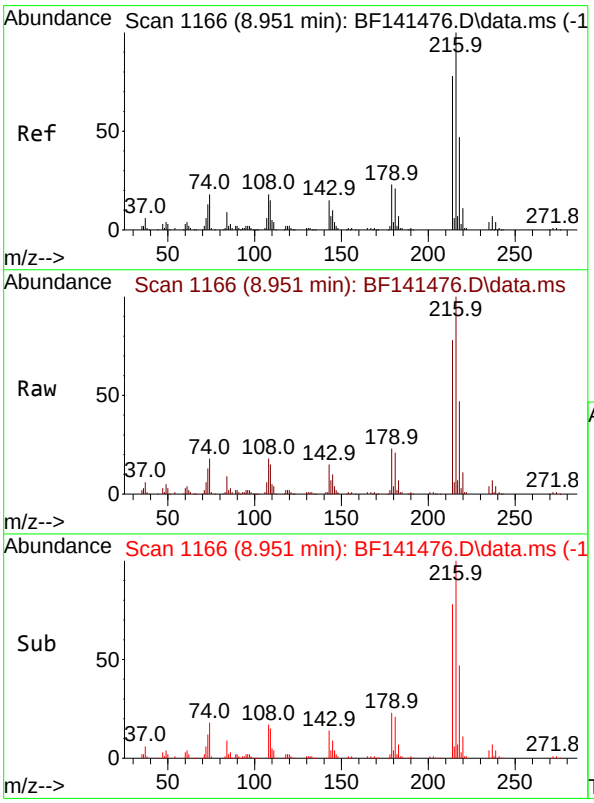
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 193385

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.3	121.9
160	44.9	35.9	53.9

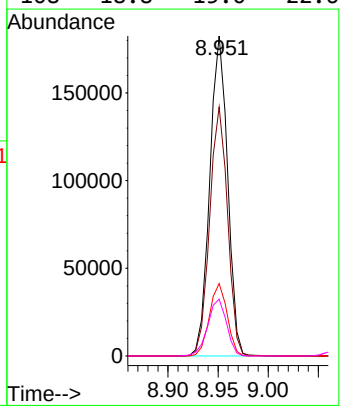


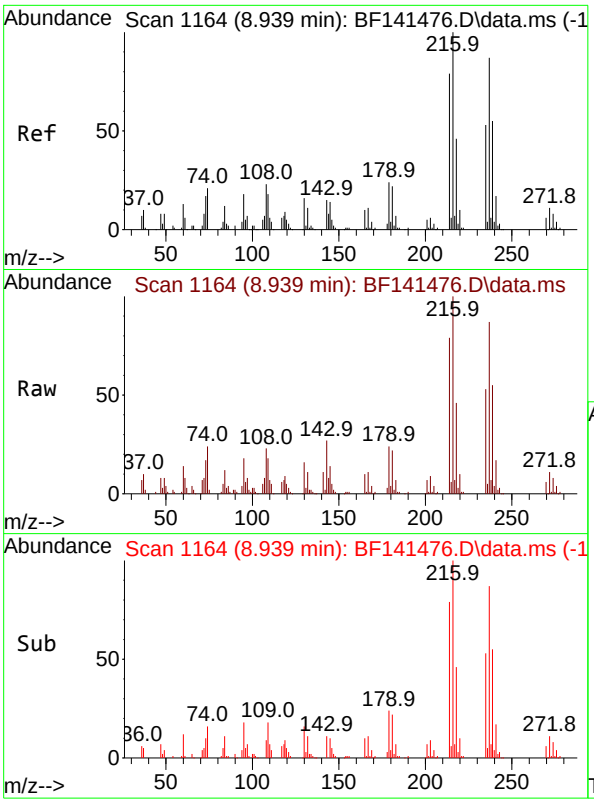


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.383 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:216 Resp: 225938

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.5	18.0	27.0
108	18.8	15.0	22.6



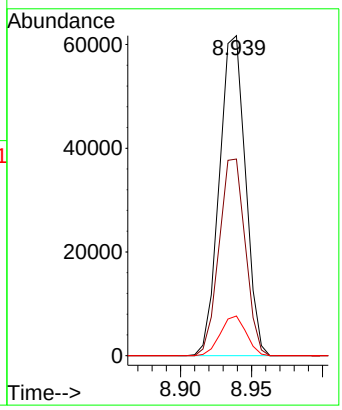


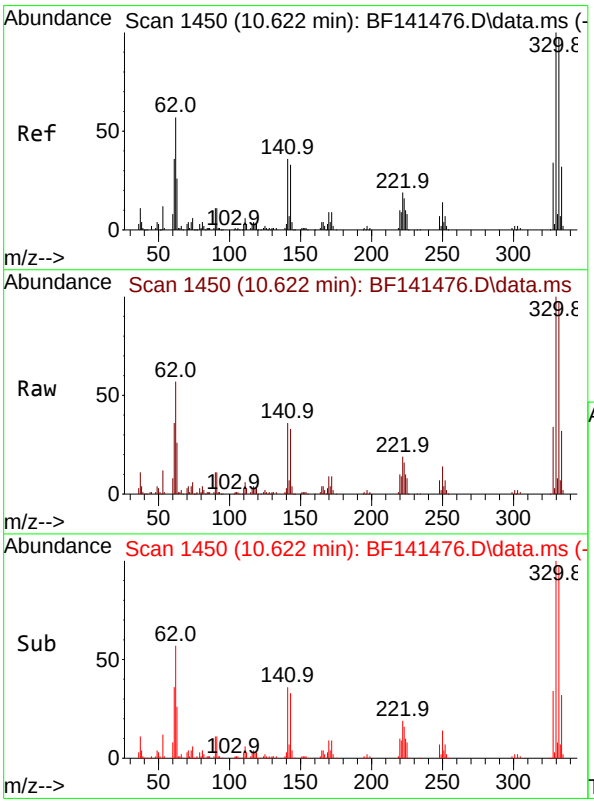
#41
Hexachlorocyclopentadiene
Concen: 42.325 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 78762

Ion	Ratio	Lower	Upper
237	100		
235	61.4	41.4	81.4
272	12.4	0.0	32.4

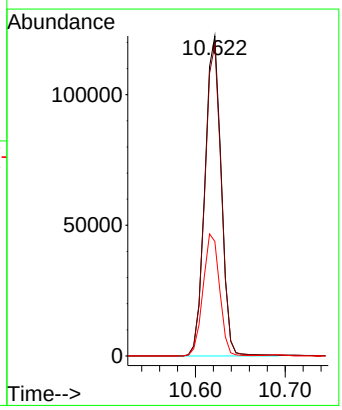


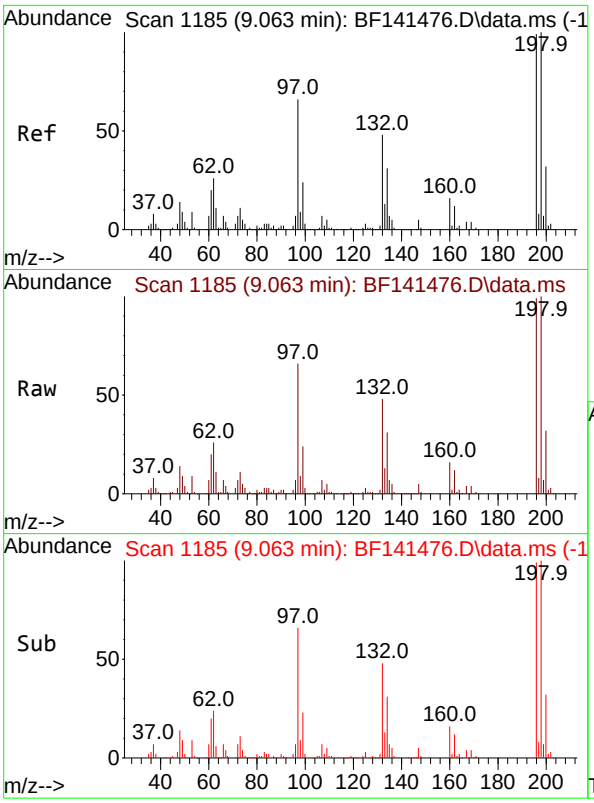


#42
2,4,6-Tribromophenol
Concen: 79.647 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:330 Resp: 154725

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.5	117.7
141	38.7	31.0	46.4



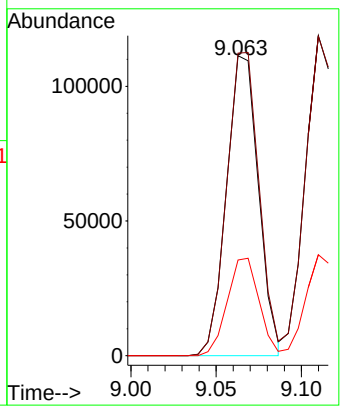


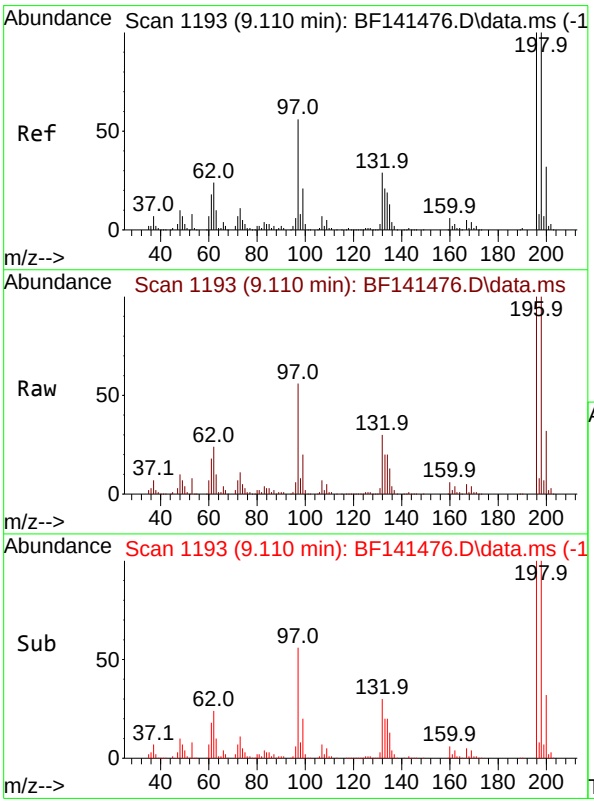
#43
2,4,6-Trichlorophenol
Concen: 40.288 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 145682

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.6	121.0
200	31.9	25.5	38.3

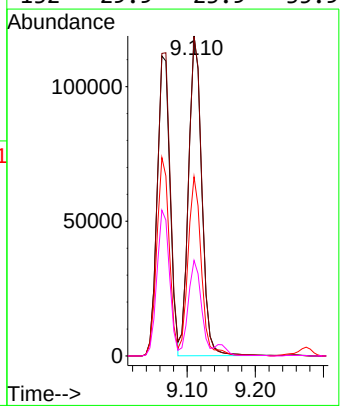


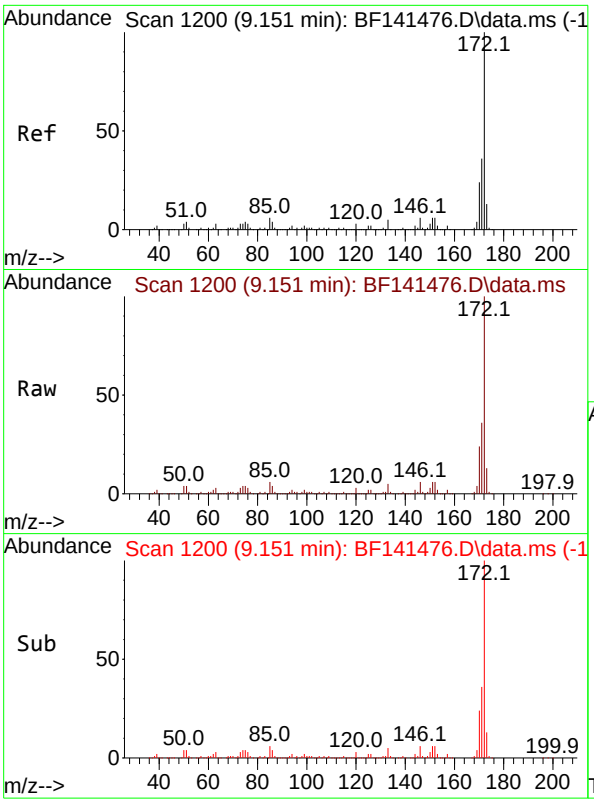


#44
2,4,5-Trichlorophenol
Concen: 40.492 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:196 Resp: 158685

Ion	Ratio	Lower	Upper
196	100		
198	99.8	79.8	119.8
97	56.0	44.8	67.2
132	29.9	23.9	35.9



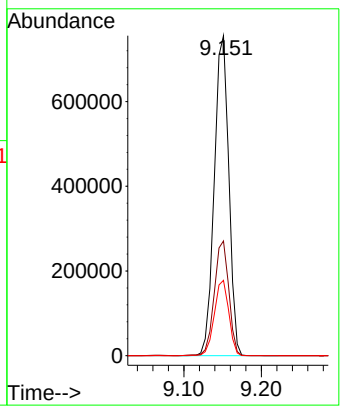


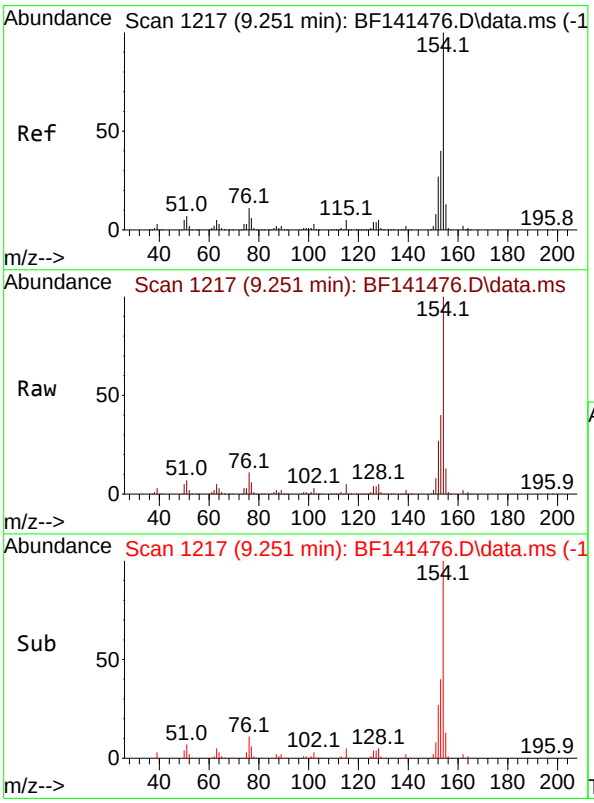
#45
2-Fluorobiphenyl
Concen: 78.189 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 981440

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.7	43.1
170	23.6	18.9	28.3

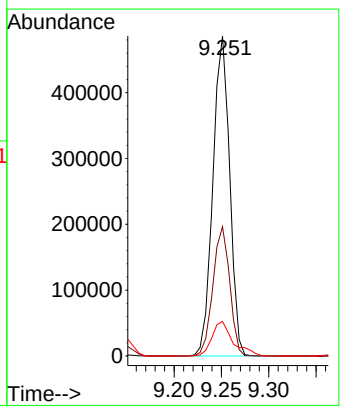


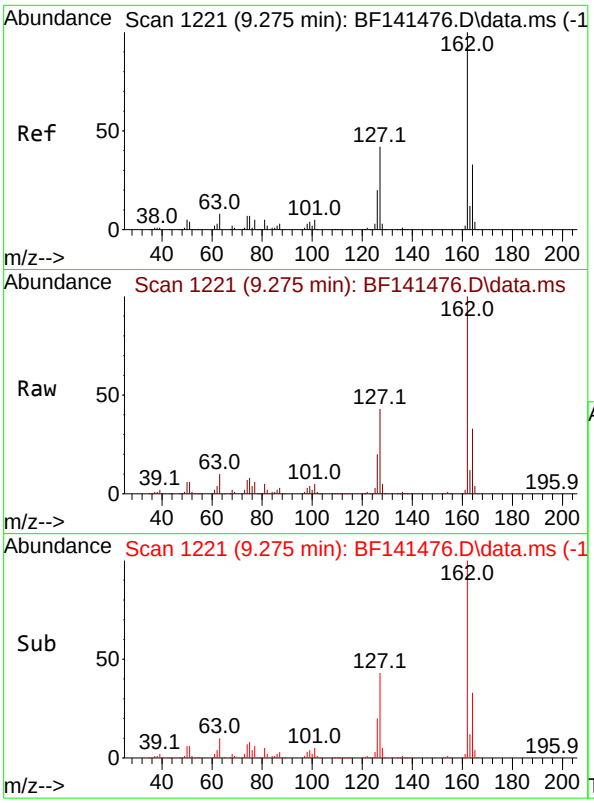


#46
1,1'-Biphenyl
Concen: 39.846 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:154 Resp: 597404

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	10.8	0.0	30.8



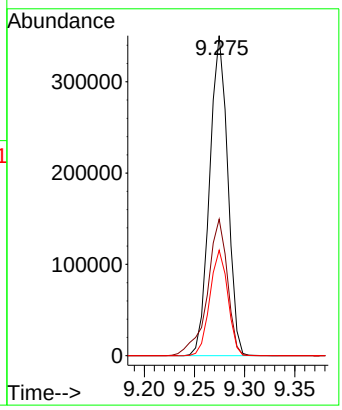


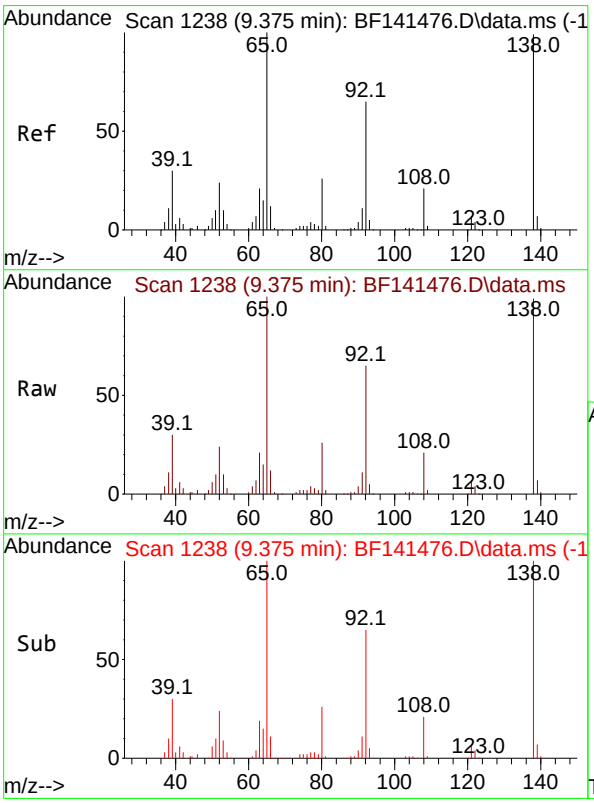
#47
2-Chloronaphthalene
Concen: 39.590 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 438926

Ion	Ratio	Lower	Upper
162	100		
127	42.6	34.1	51.1
164	32.9	26.3	39.5

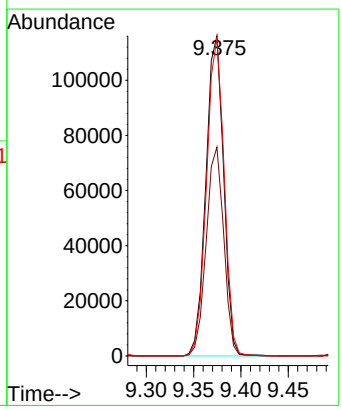


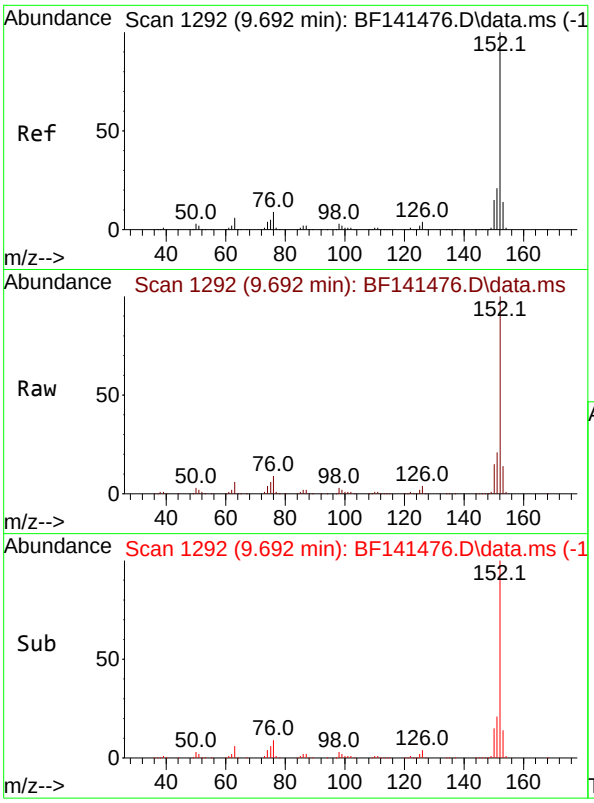


#48
2-Nitroaniline
Concen: 40.563 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion: 65 Resp: 150922

Ion	Ratio	Lower	Upper
65	100		
92	65.2	52.2	78.2
138	99.4	79.5	119.3



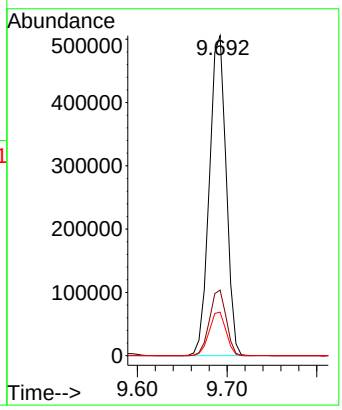


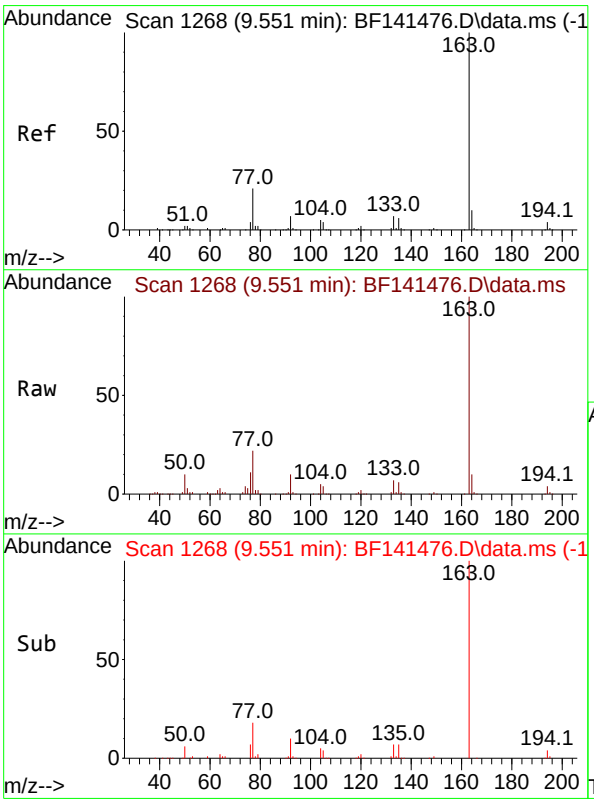
#49
Acenaphthylene
Concen: 39.789 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 656124

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	13.6	10.9	16.3

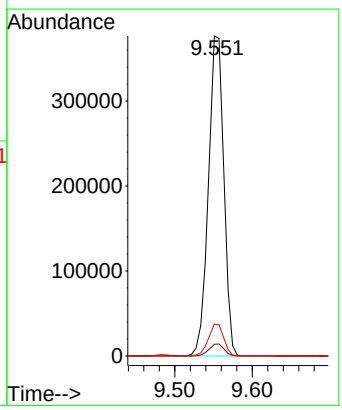


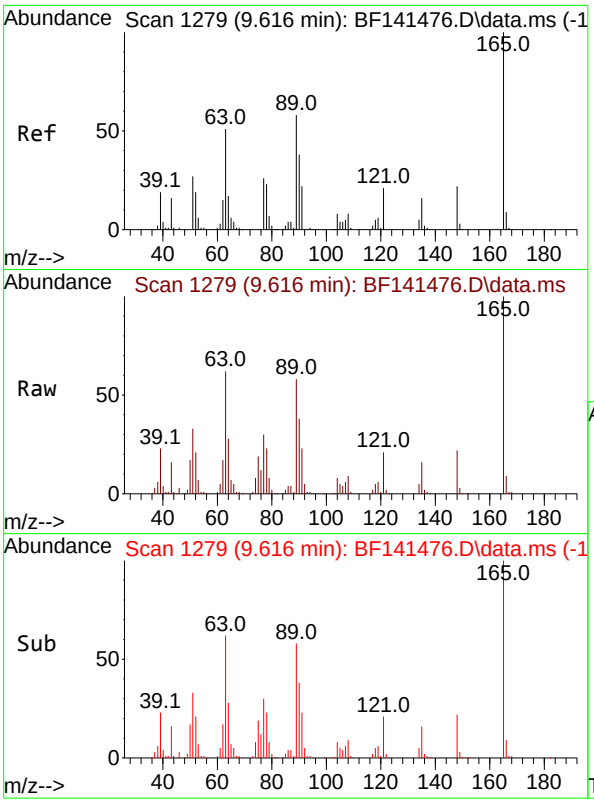


#50
Dimethylphthalate
Concen: 39.638 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:163 Resp: 520384

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	9.9	7.9	11.9



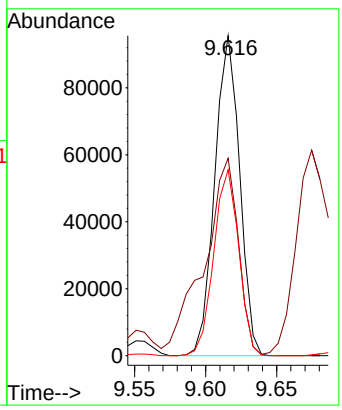


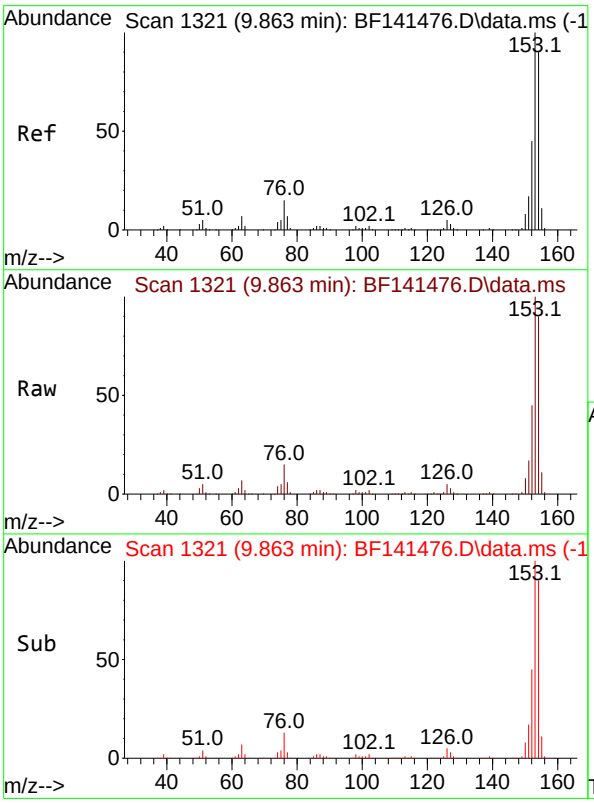
#51
2,6-Dinitrotoluene
Concen: 40.536 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 116338

Ion	Ratio	Lower	Upper
165	100		
63	61.7	49.4	74.0
89	58.1	46.5	69.7

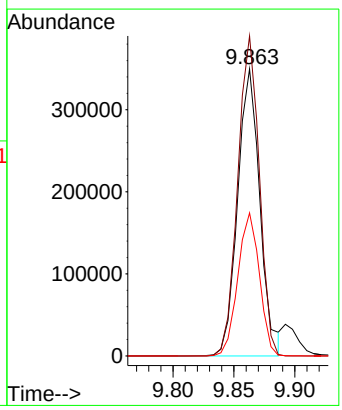


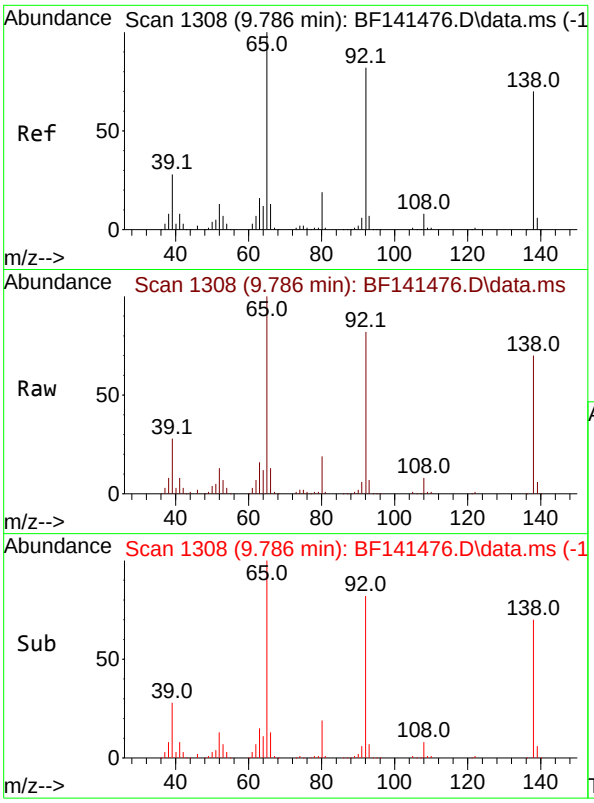


#52
Acenaphthene
Concen: 40.186 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:154 Resp: 445515

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.2	133.8
152	49.8	39.8	59.8



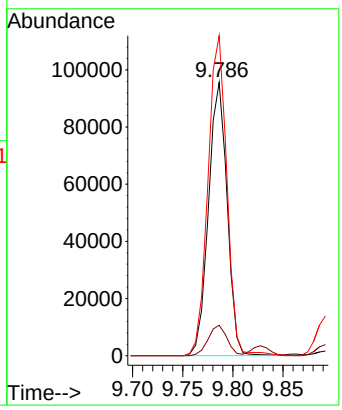


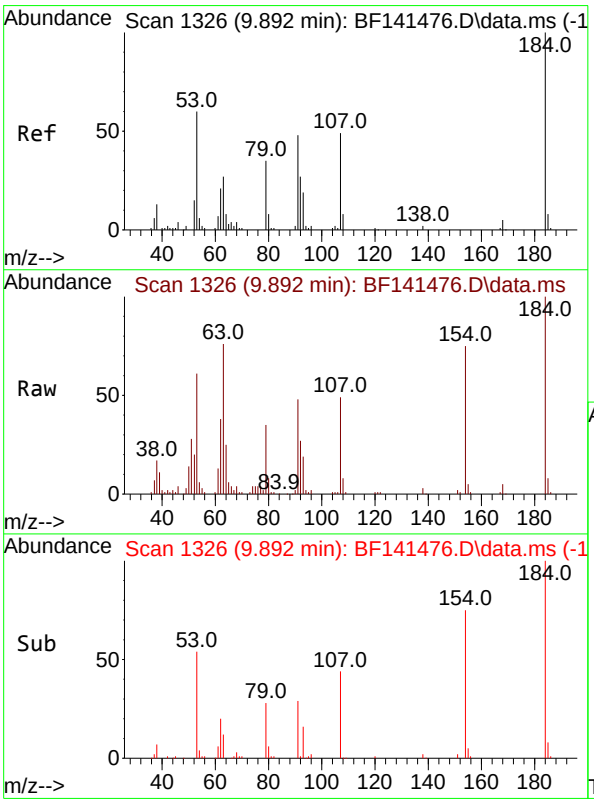
#53
3-Nitroaniline
Concen: 39.991 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 123530

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	117.1	93.7	140.5

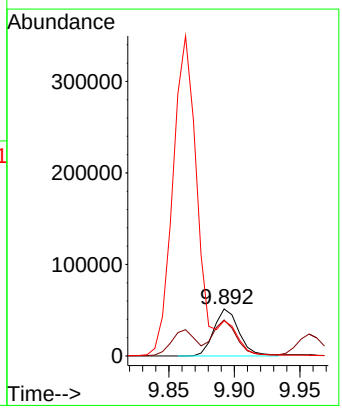


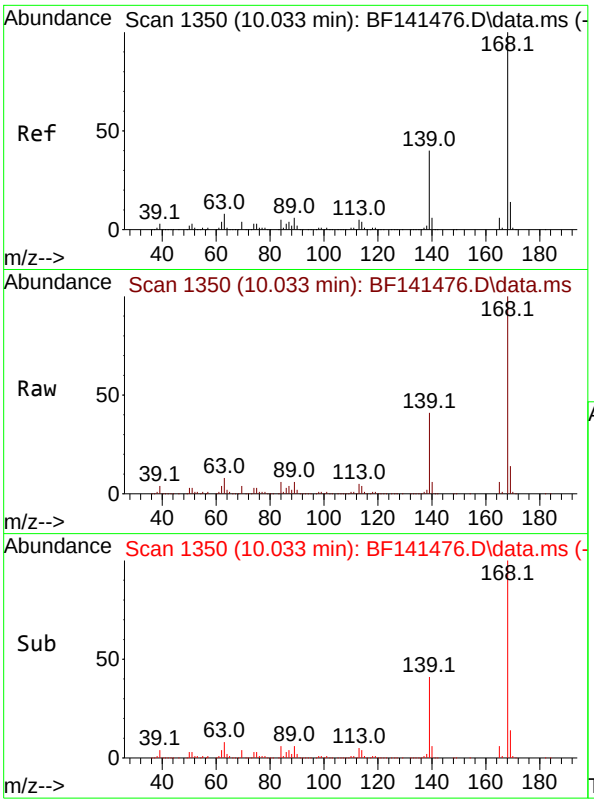


#54
2,4-Dinitrophenol
Concen: 40.153 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:184 Resp: 68489

Ion	Ratio	Lower	Upper
184	100		
63	76.3	61.0	91.6
154	74.9	59.9	89.9



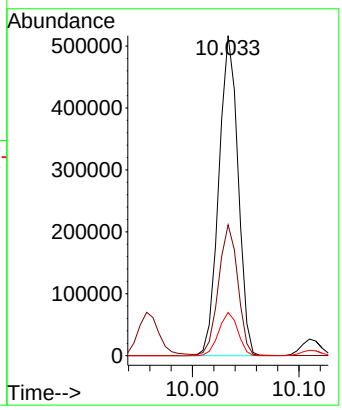


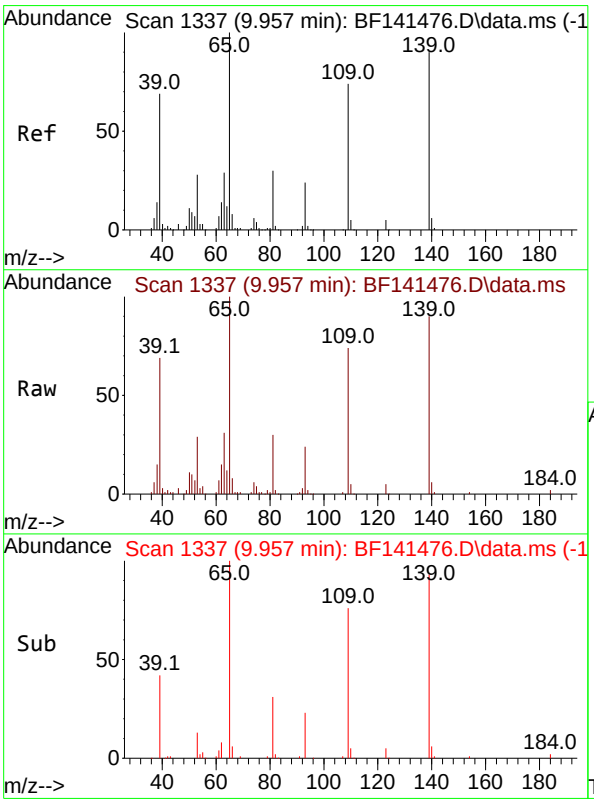
#55
Dibenzofuran
Concen: 39.775 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 647242

Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.5	10.8	16.2

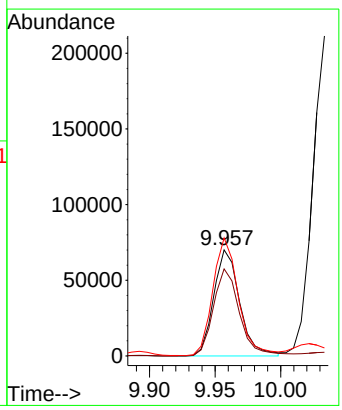


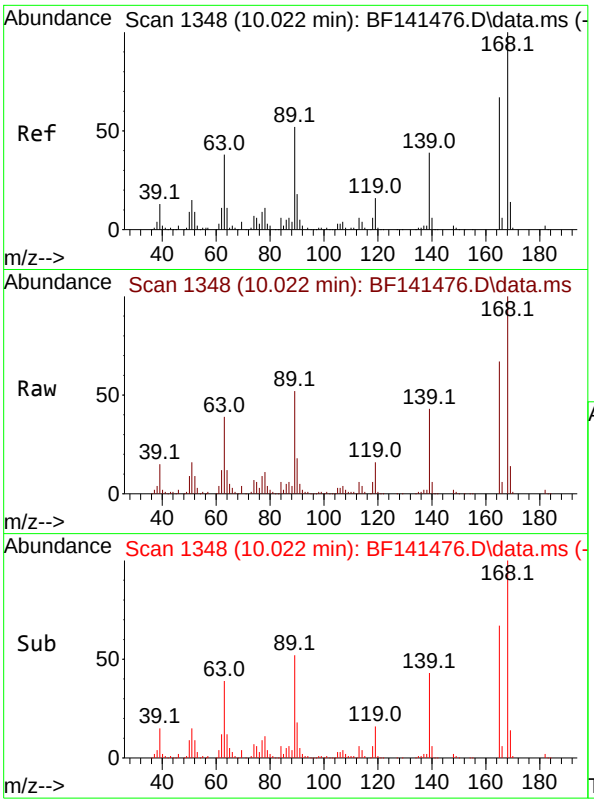


#56
4-Nitrophenol
Concen: 42.065 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:139 Resp: 96456

Ion	Ratio	Lower	Upper
139	100		
109	82.0	62.0	102.0
65	111.2	91.2	131.2



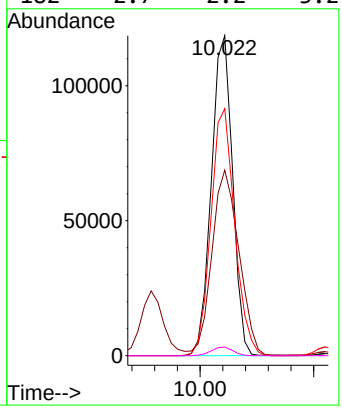


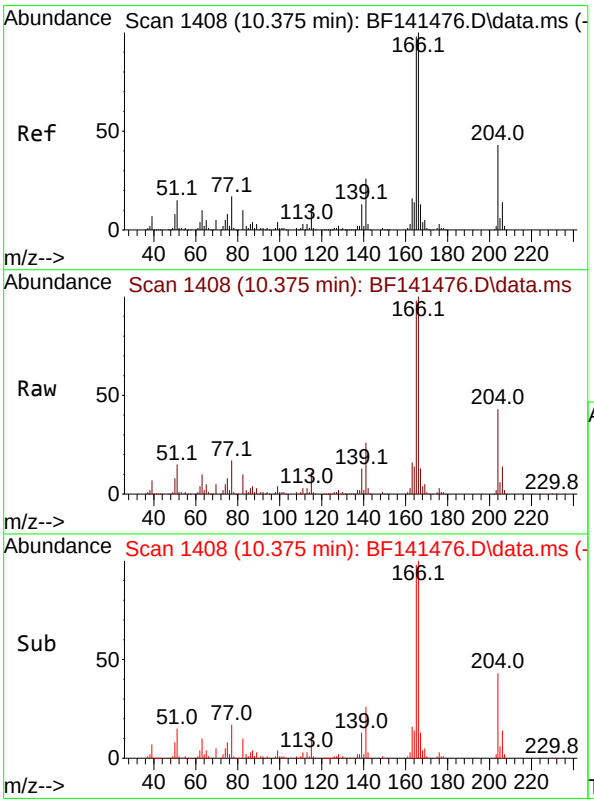
#57
2,4-Dinitrotoluene
Concen: 40.262 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 153824

Ion	Ratio	Lower	Upper
165	100		
63	58.0	46.4	69.6
89	77.2	61.8	92.6
182	2.7	2.2	3.2

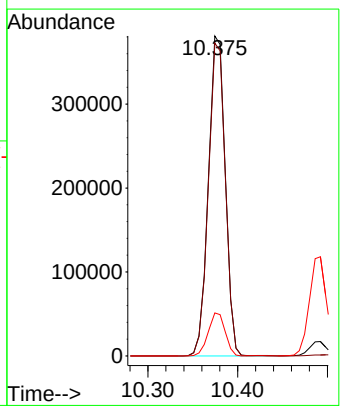


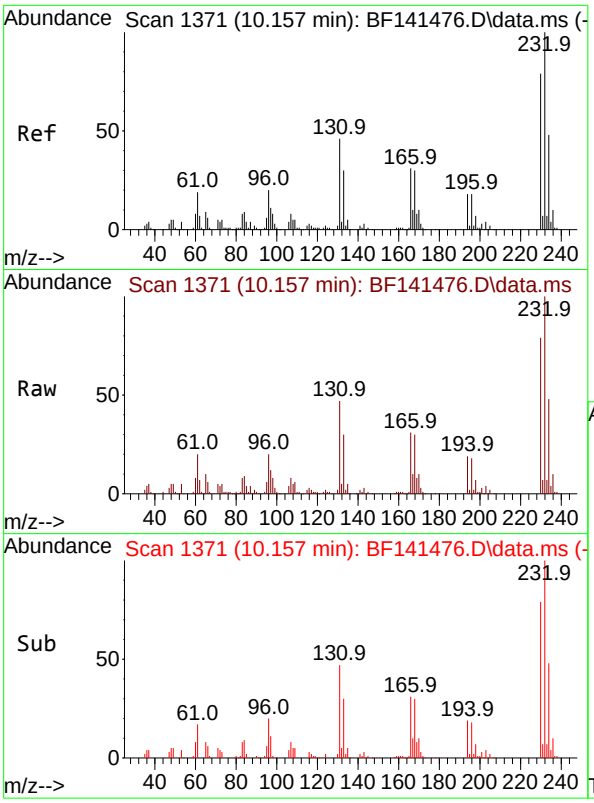


#58
Fluorene
Concen: 39.654 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:166 Resp: 498929

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.2
167	13.4	10.7	16.1



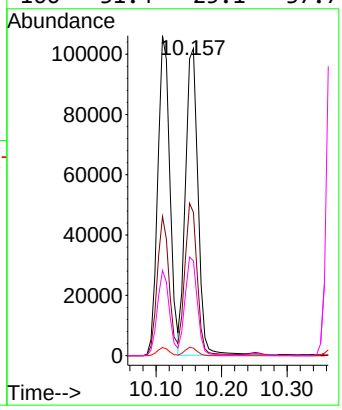


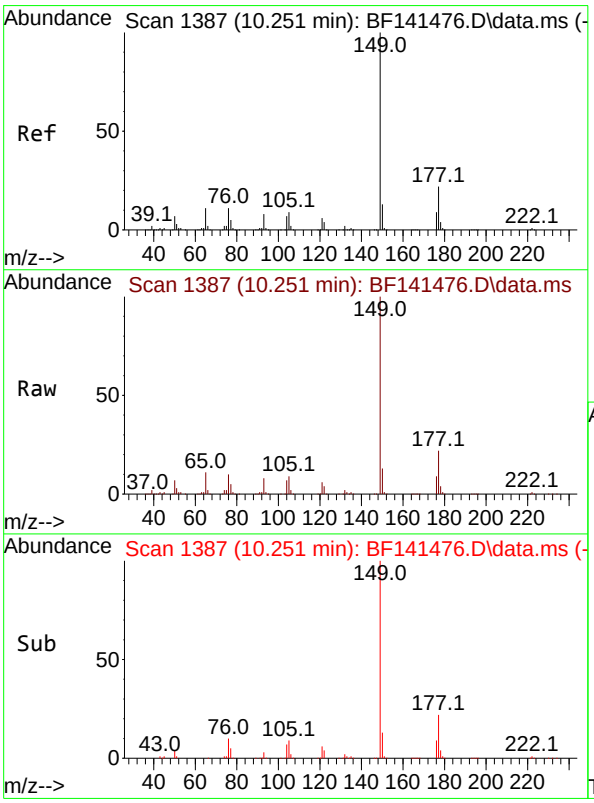
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.888 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 134581

Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.2	58.8
130	2.6	2.1	3.1
166	31.4	25.1	37.7

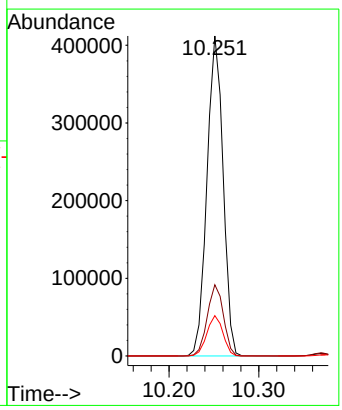


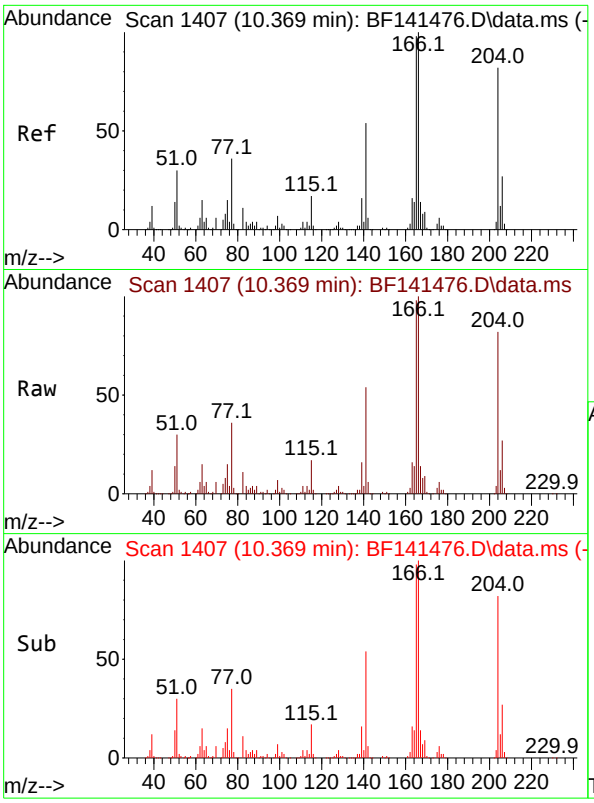


#60
Diethylphthalate
Concen: 39.821 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 514358

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.6	10.1	15.1



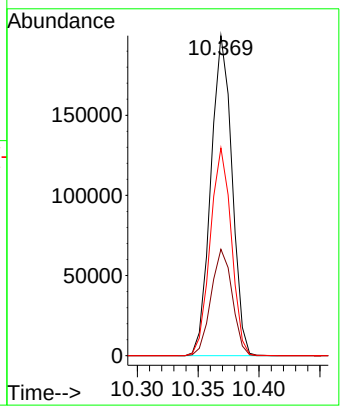


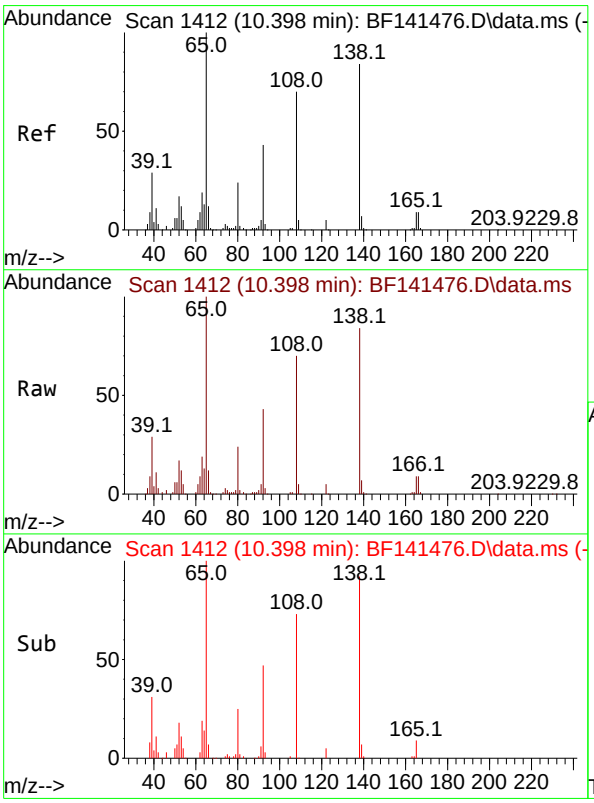
#61
4-Chlorophenyl-phenylether
Concen: 39.767 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 240707

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.6	40.0
141	64.9	51.9	77.9

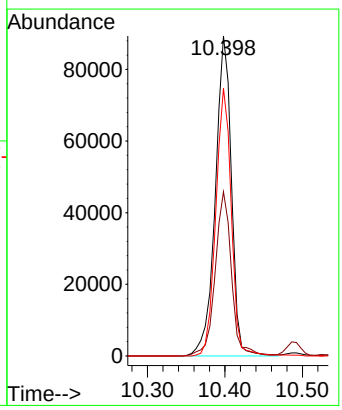


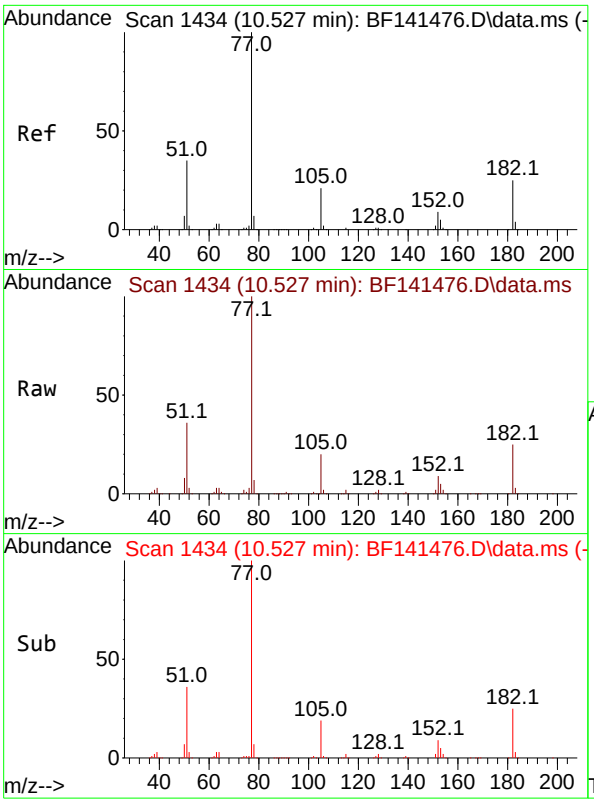


#62
4-Nitroaniline
Concen: 41.253 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:138 Resp: 129392

Ion	Ratio	Lower	Upper
138	100		
92	51.3	31.3	71.3
108	83.7	63.7	103.7



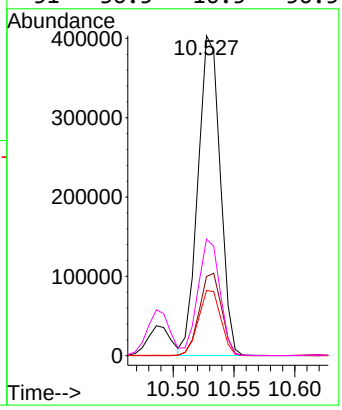


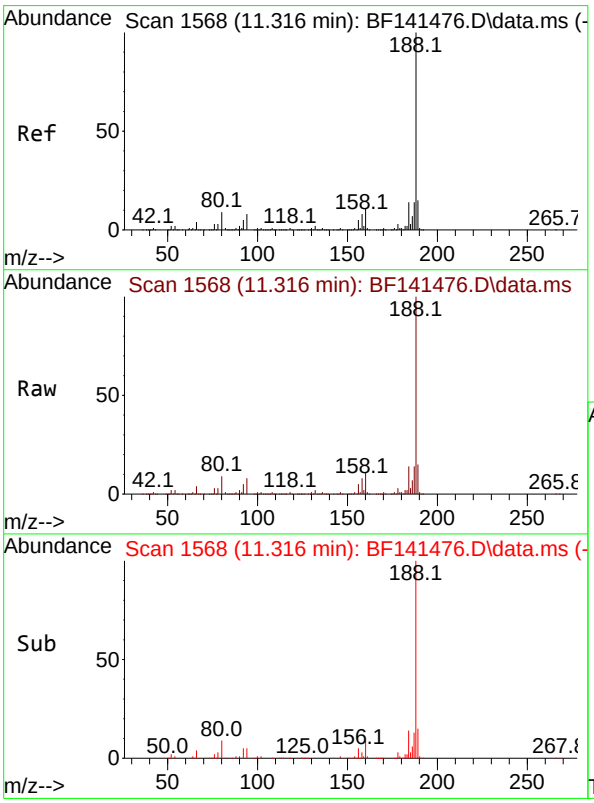
#63
Azobenzene
Concen: 39.926 ng
RT: 10.527 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 512692

Ion	Ratio	Lower	Upper
77	100		
182	24.7	4.7	44.7
105	20.4	0.4	40.4
51	36.5	16.5	56.5

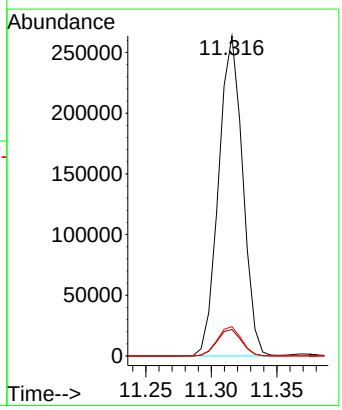


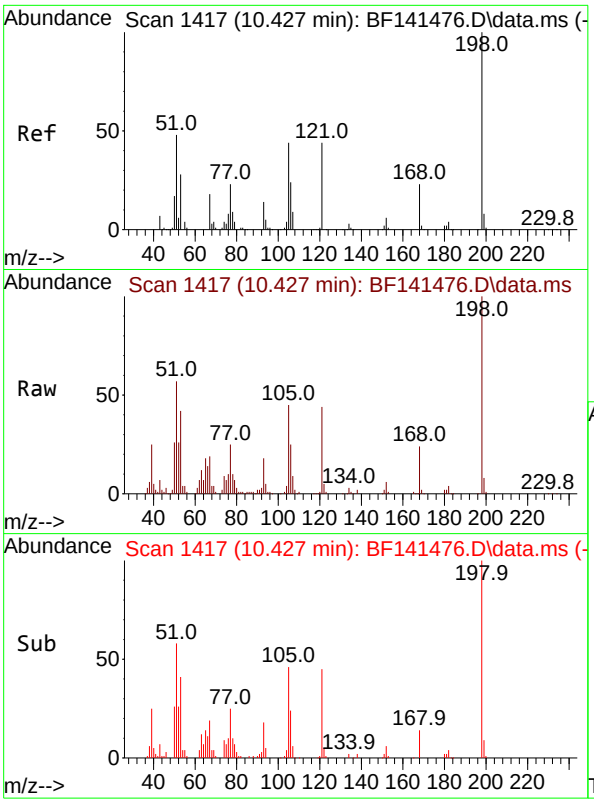


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:188 Resp: 336425

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.1	7.3	10.9



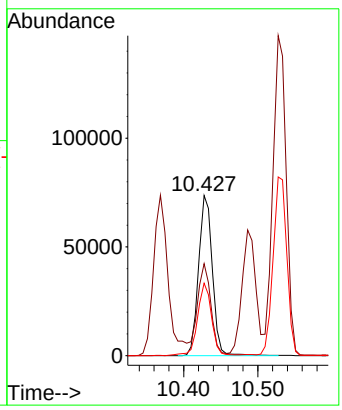


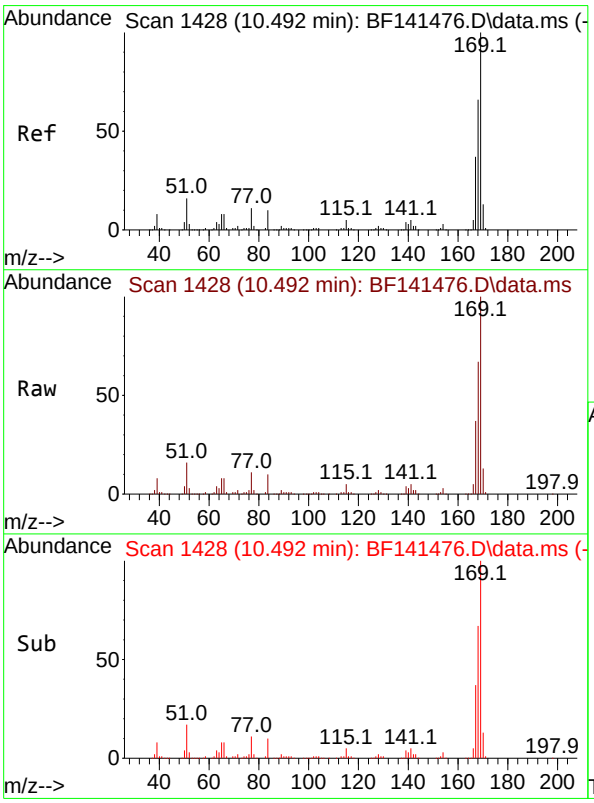
#65
4,6-Dinitro-2-methylphenol
Concen: 40.874 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 95521

Ion	Ratio	Lower	Upper
198	100		
51	57.4	37.4	77.4
105	45.2	25.2	65.2

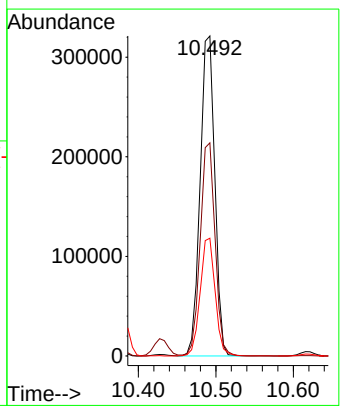


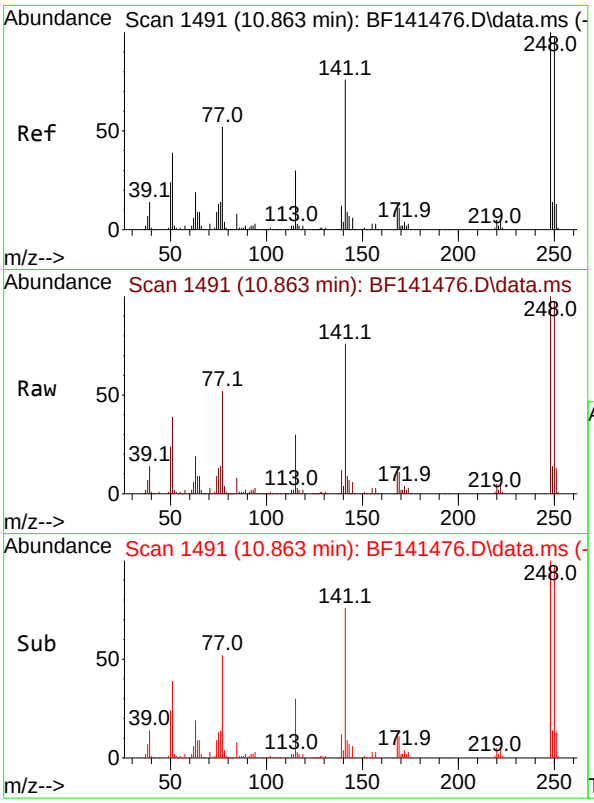


#66
n-Nitrosodiphenylamine
Concen: 39.180 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:169 Resp: 421937

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.3	79.9
167	36.8	29.4	44.2



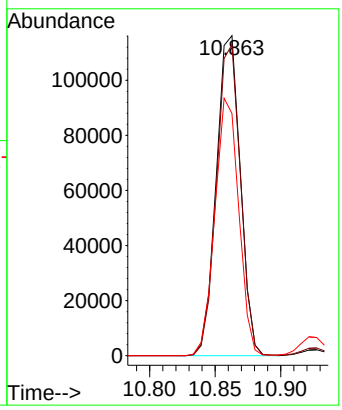


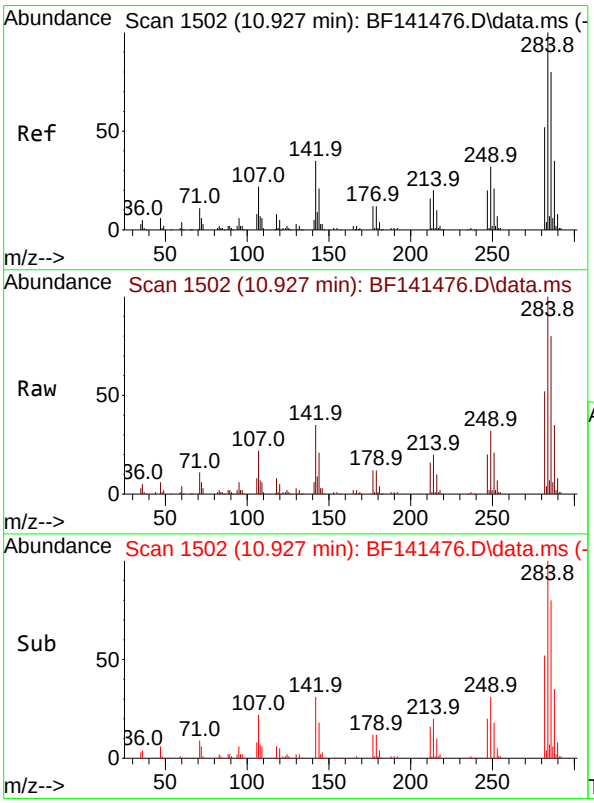
#67
4-Bromophenyl-phenylether
Concen: 39.522 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 148603

Ion	Ratio	Lower	Upper
248	100		
250	97.2	77.8	116.6
141	75.7	60.6	90.8

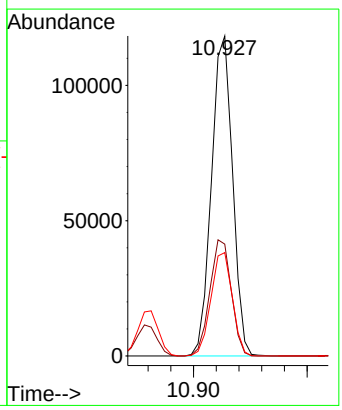


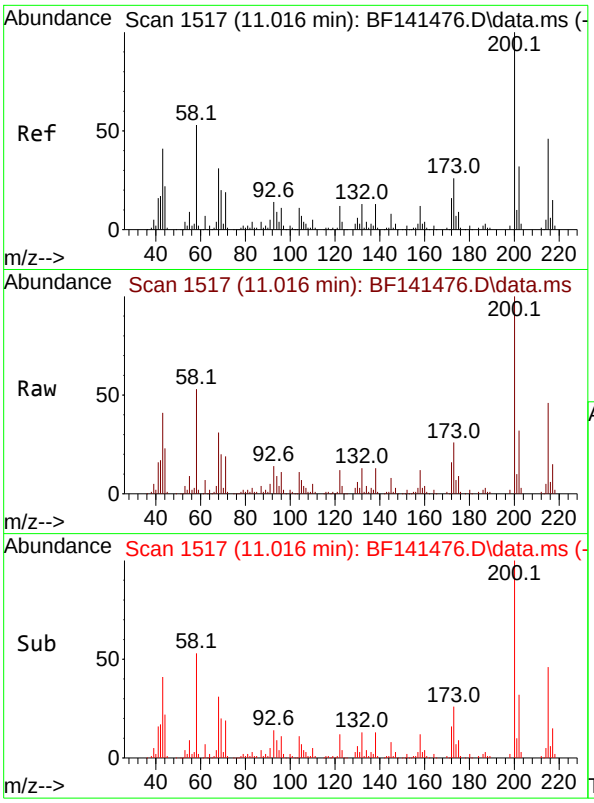


#68
Hexachlorobenzene
Concen: 39.430 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:284 Resp: 152664

Ion	Ratio	Lower	Upper
284	100		
142	35.0	28.0	42.0
249	32.3	25.8	38.8



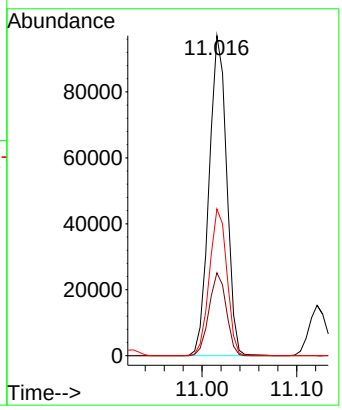


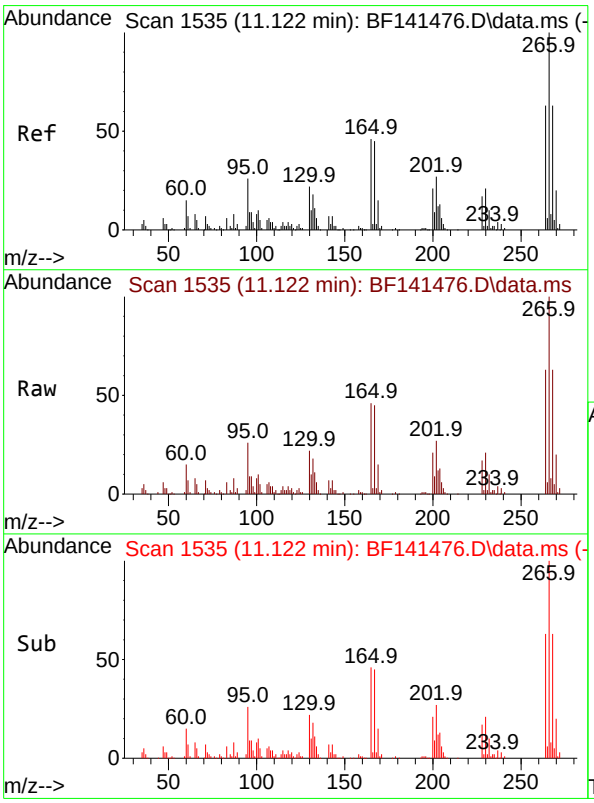
#69
Atrazine
Concen: 38.533 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 124494

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	45.9	25.9	65.9

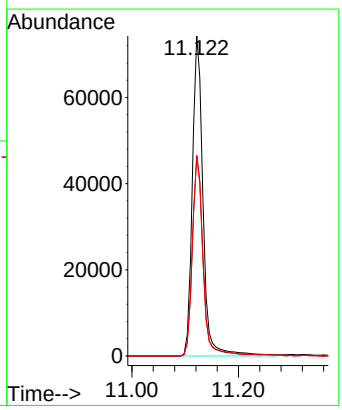


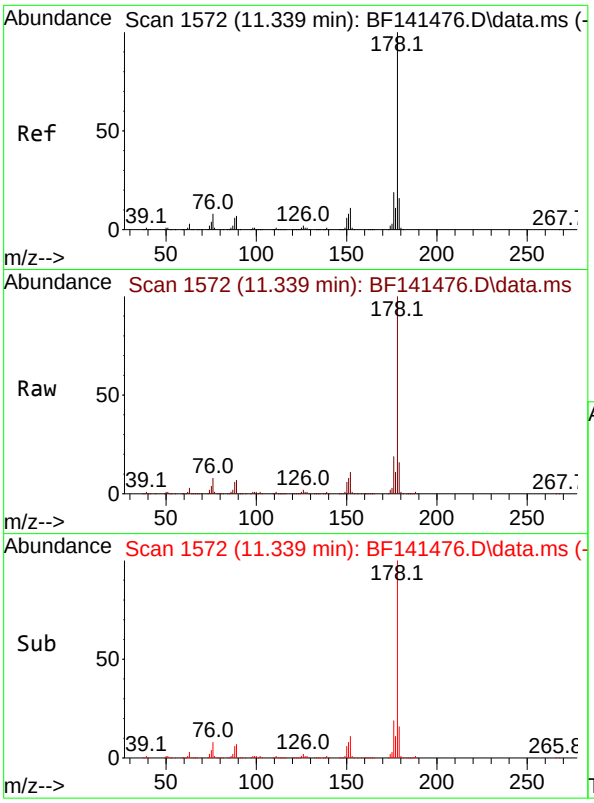


#70
Pentachlorophenol
Concen: 41.930 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:266 Resp: 103806

Ion	Ratio	Lower	Upper
266	100		
268	62.6	50.1	75.1
264	62.6	50.1	75.1



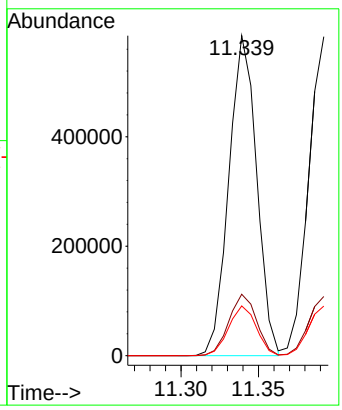


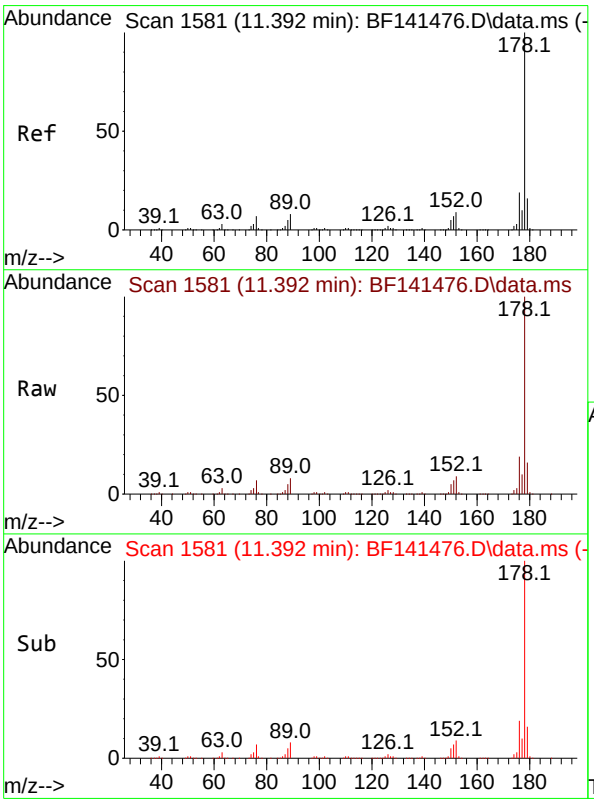
#71
Phenanthrene
Concen: 39.397 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 729585

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.4	18.6

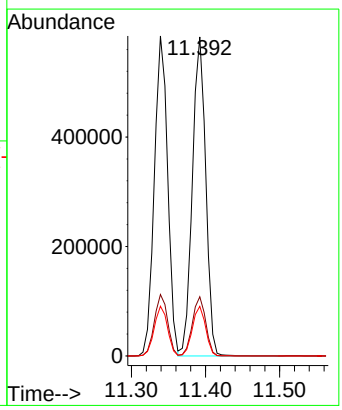


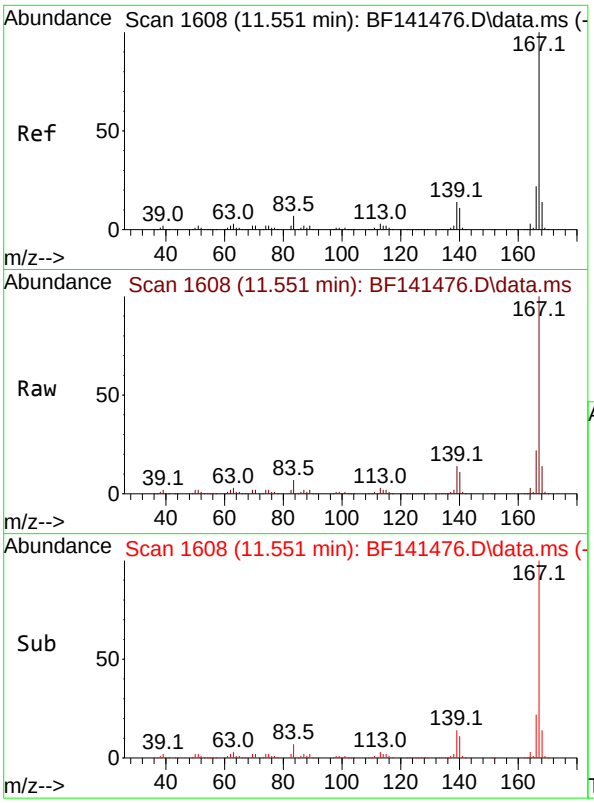


#72
Anthracene
Concen: 39.125 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:178 Resp: 728337

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.5	12.4	18.6



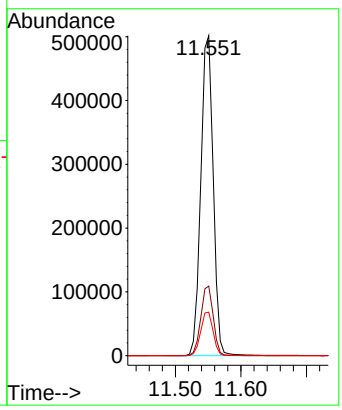


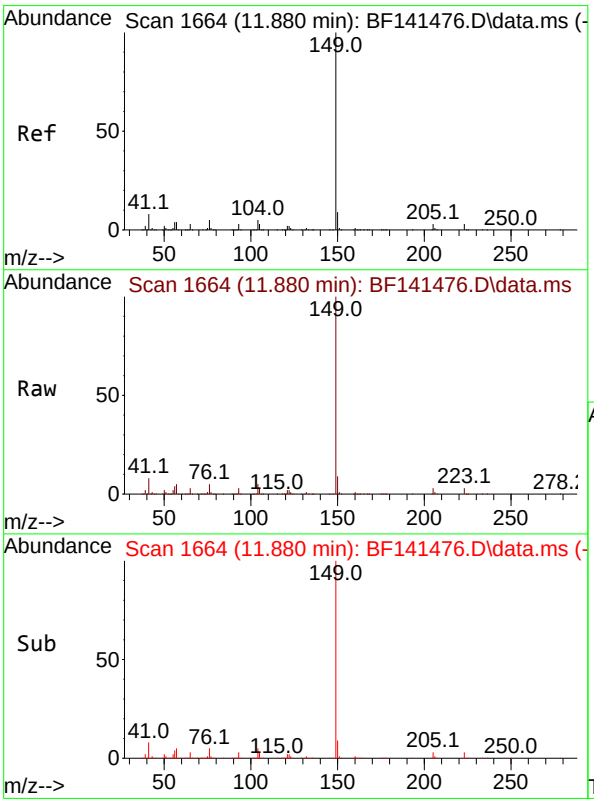
#73
Carbazole
Concen: 39.613 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 663523

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.4	26.2
139	13.6	10.9	16.3

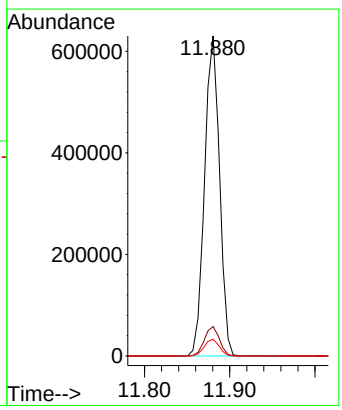


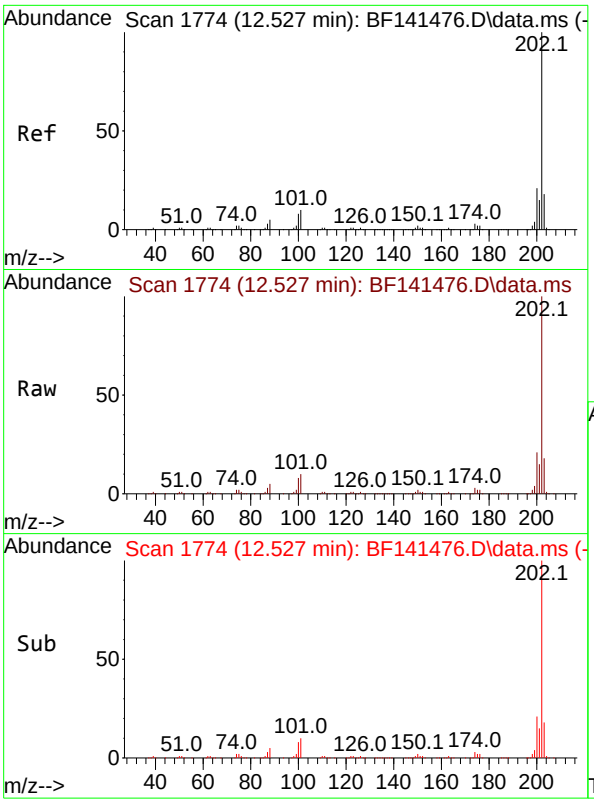


#74
Di-n-butylphthalate
Concen: 39.706 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 767961

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2



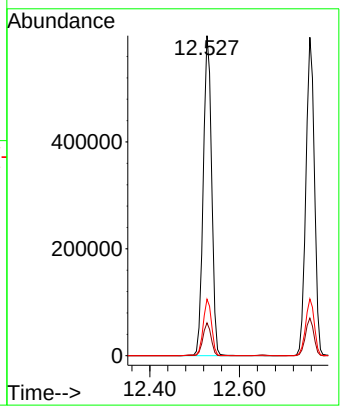


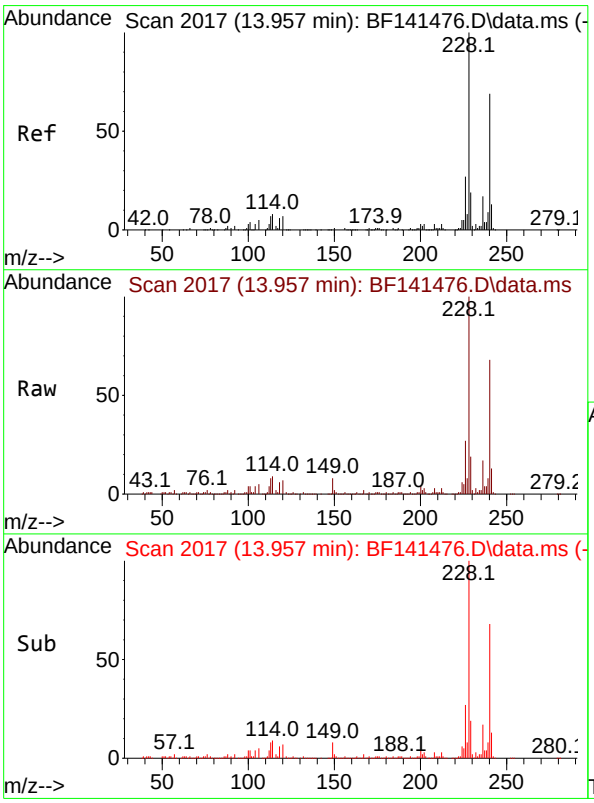
#75
Fluoranthene
Concen: 39.441 ng
RT: 12.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 774369

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.6	0.0	37.6

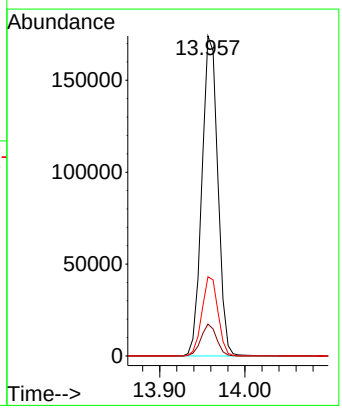


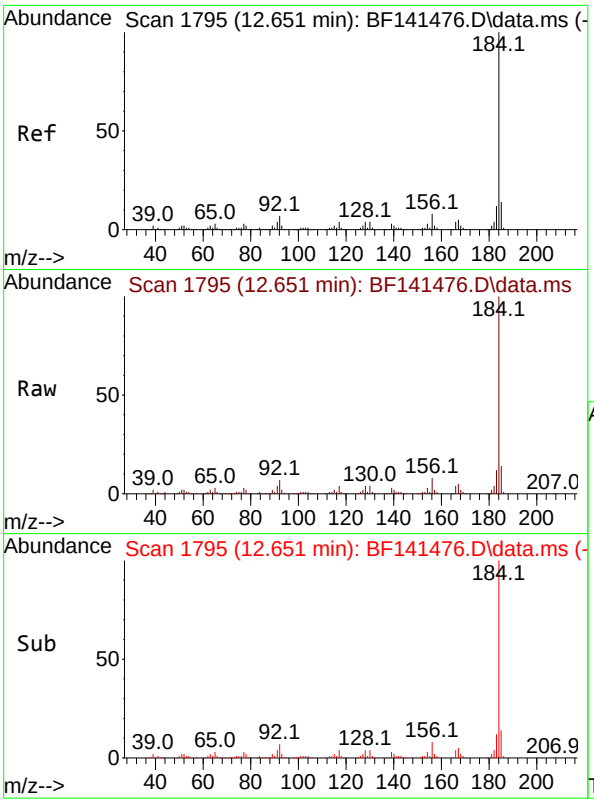


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:240 Resp: 225462

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	24.8	19.8	29.8



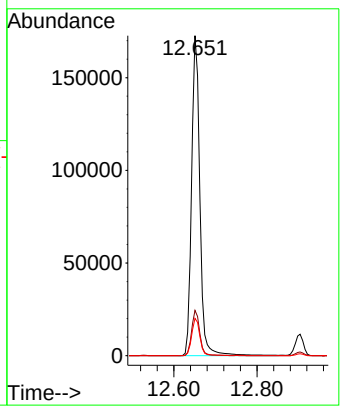


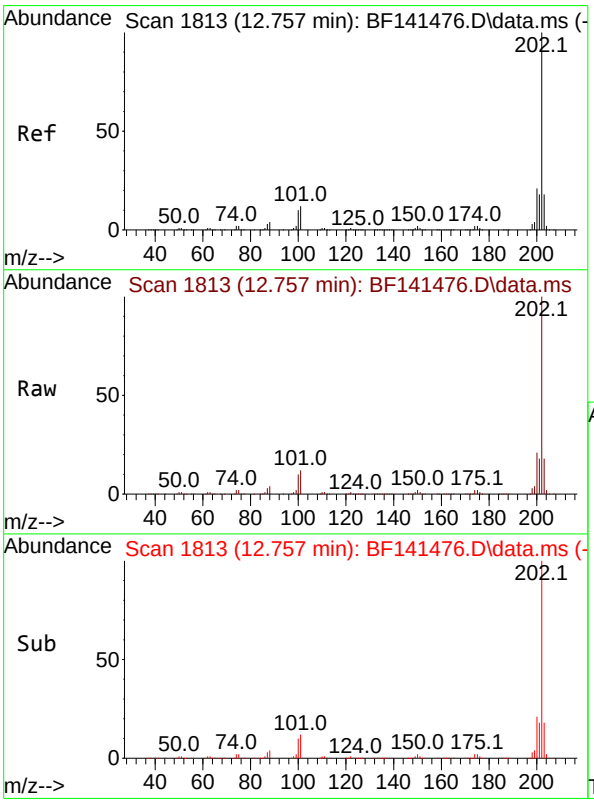
#77
Benzidine
Concen: 47.917 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 238261

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	11.6	9.3	13.9

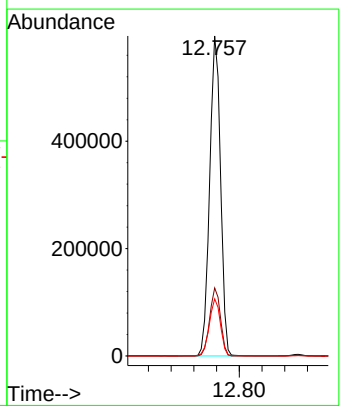


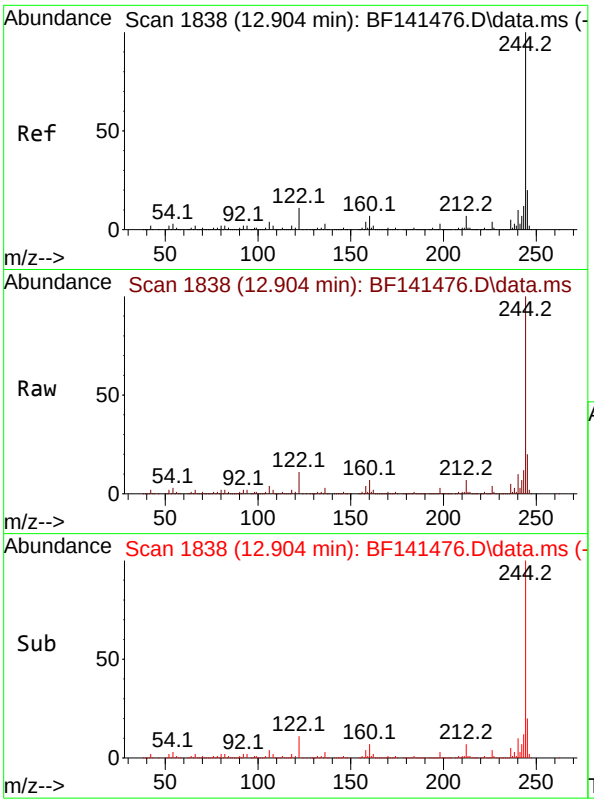


#78
Pyrene
Concen: 41.002 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:202 Resp: 786956

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



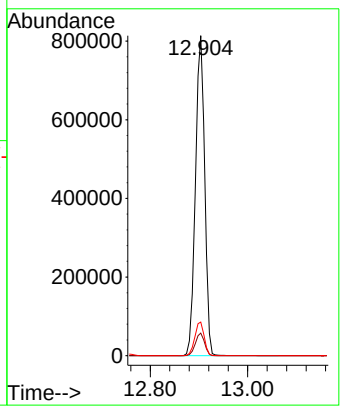


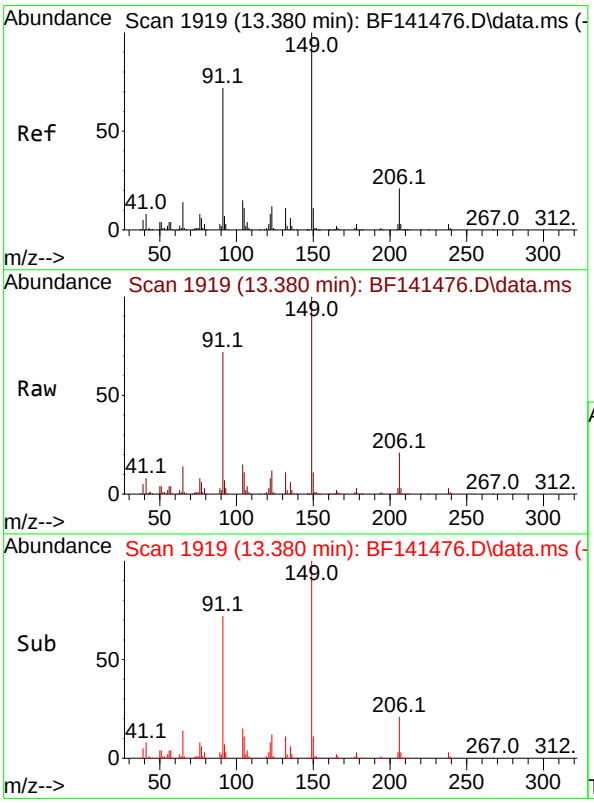
#79
Terphenyl-d14
Concen: 80.879 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1080174

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.5	8.4	12.6

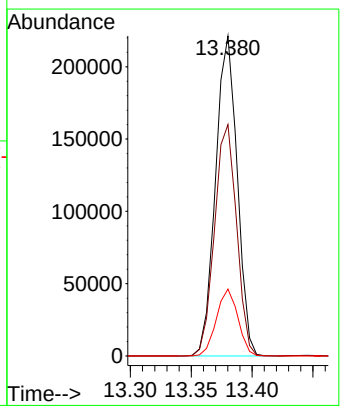


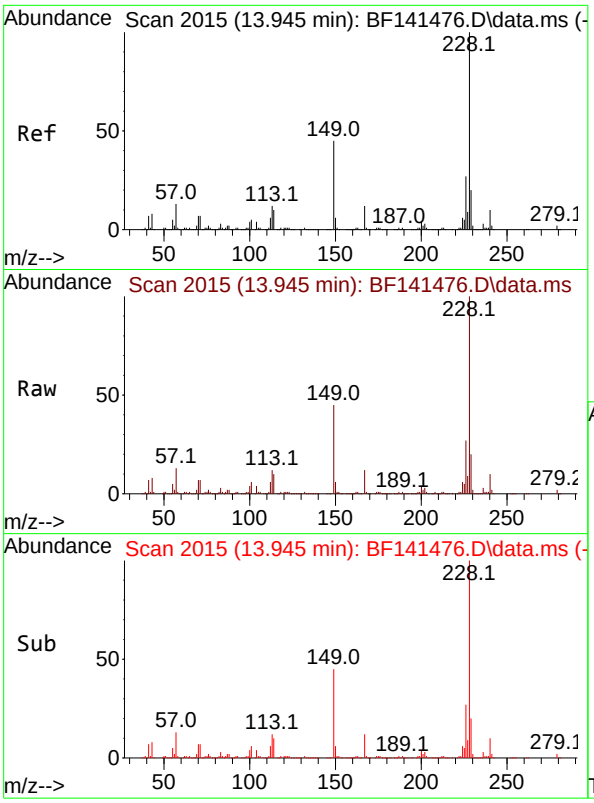


#80
Butylbenzylphthalate
Concen: 41.323 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 274711

Ion	Ratio	Lower	Upper
149	100		
91	72.3	57.8	86.8
206	20.9	16.7	25.1



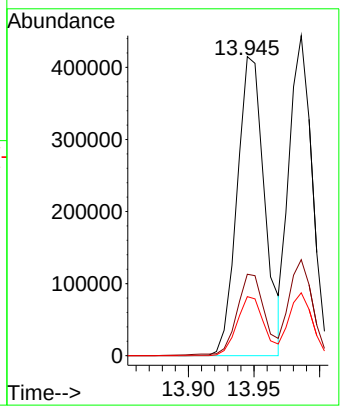


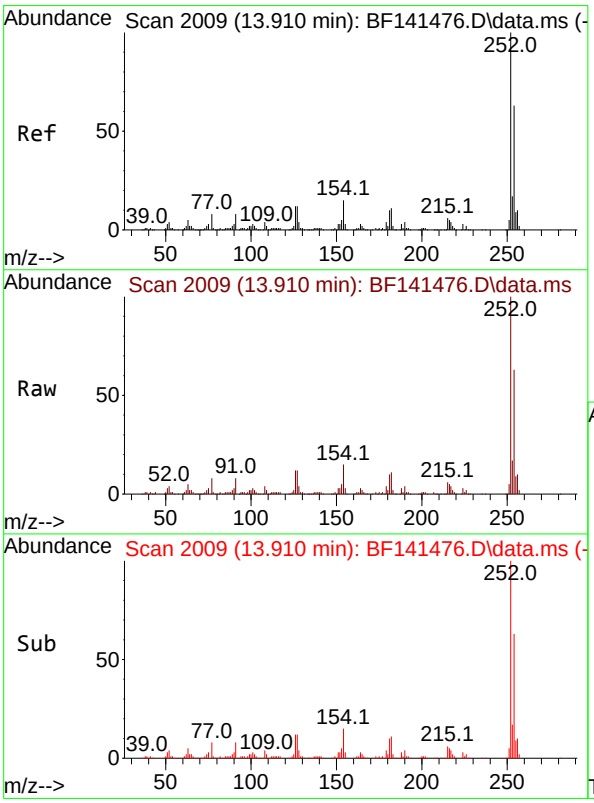
#81
Benzo(a)anthracene
Concen: 40.479 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 606669

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.7	15.8	23.6

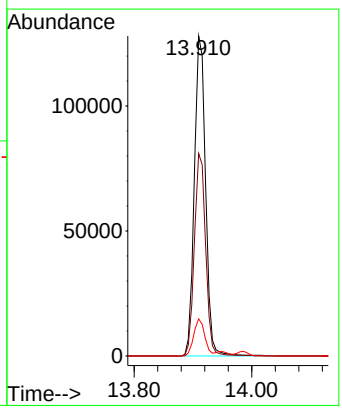


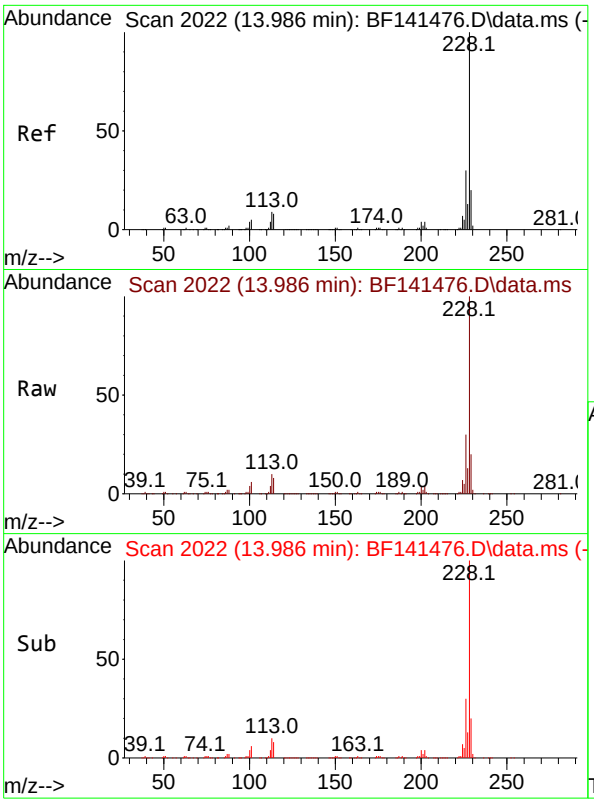


#82
3,3'-Dichlorobenzidine
Concen: 39.640 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 170181

Ion	Ratio	Lower	Upper
252	100		
254	63.3	50.6	76.0
126	11.6	9.3	13.9



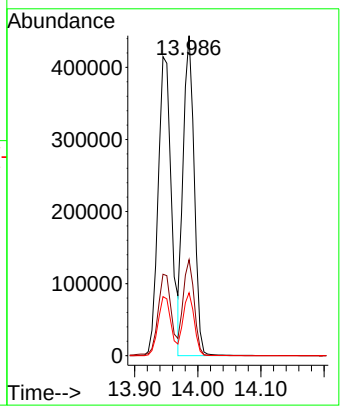


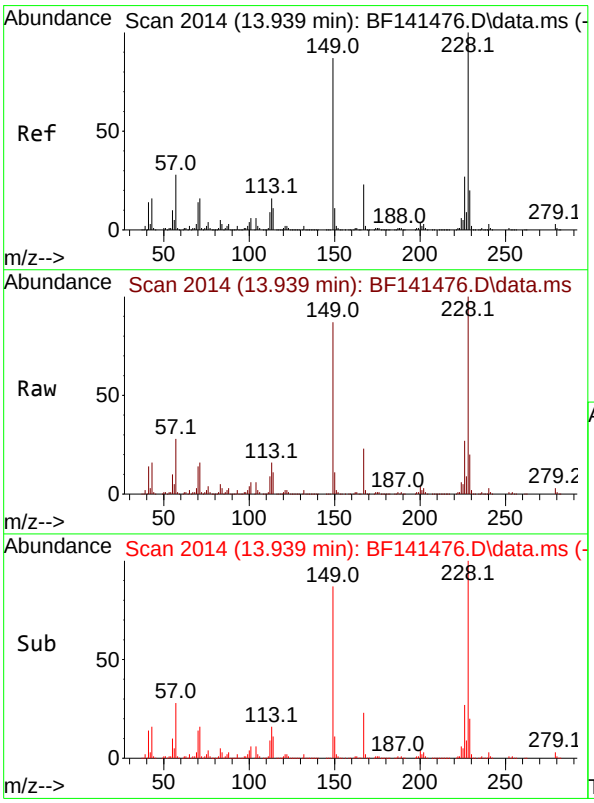
#83
Chrysene
Concen: 39.121 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 541376

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.0	36.0
229	19.6	15.7	23.5

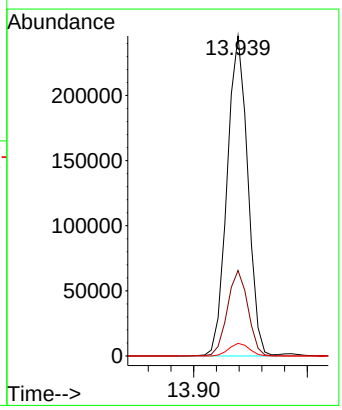


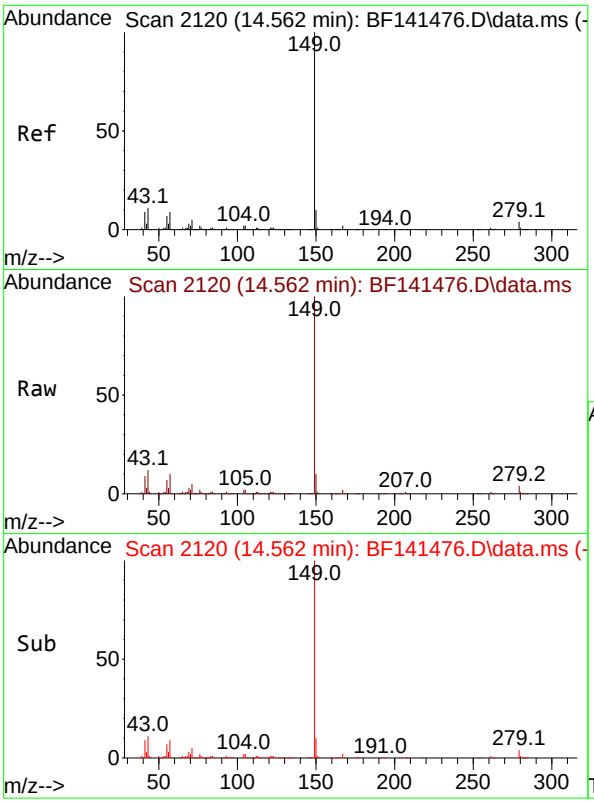


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.438 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:149 Resp: 310696

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	3.9	3.1	4.7



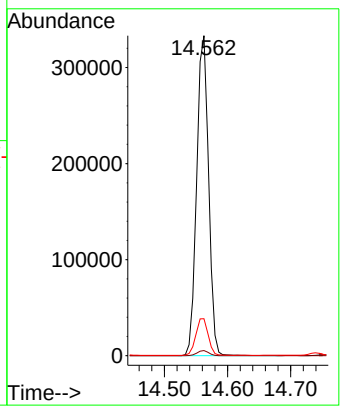


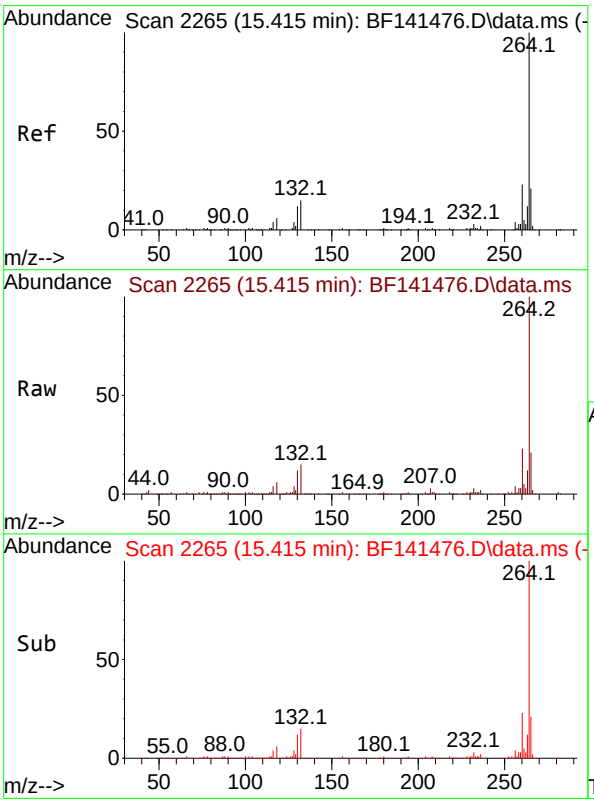
#85
Di-n-octyl phthalate
Concen: 40.682 ng
RT: 14.562 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 435142

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.5	14.3

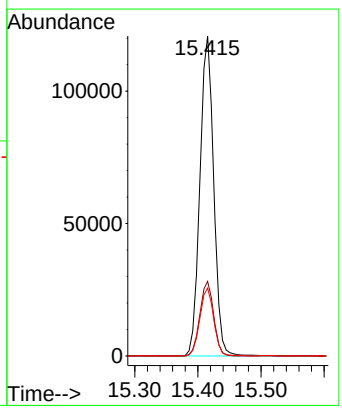


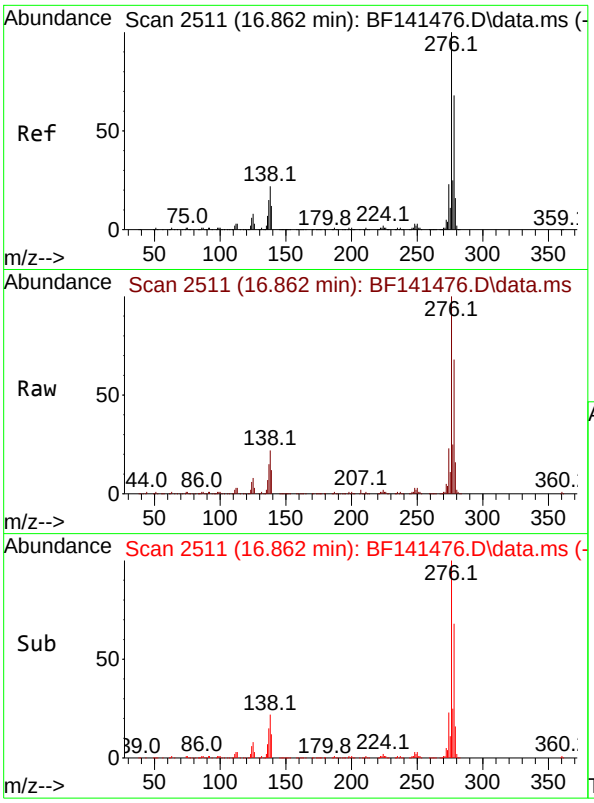


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:264 Resp: 182907

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	21.2	17.0	25.4



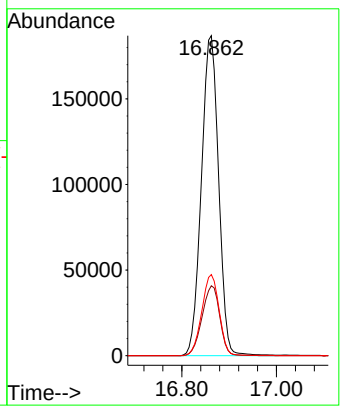


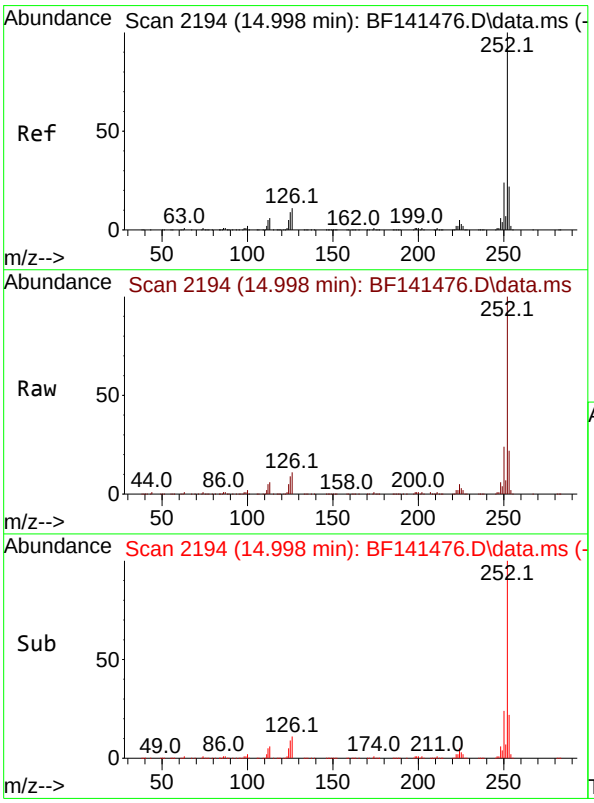
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.699 ng
RT: 16.862 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 471272

Ion	Ratio	Lower	Upper
276	100		
138	22.5	18.0	27.0
277	25.5	20.4	30.6

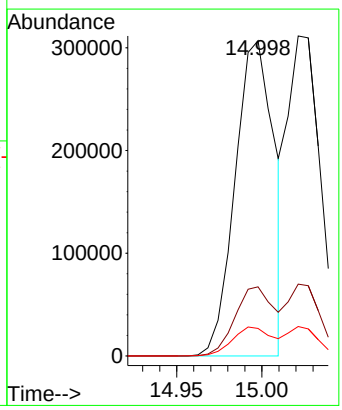


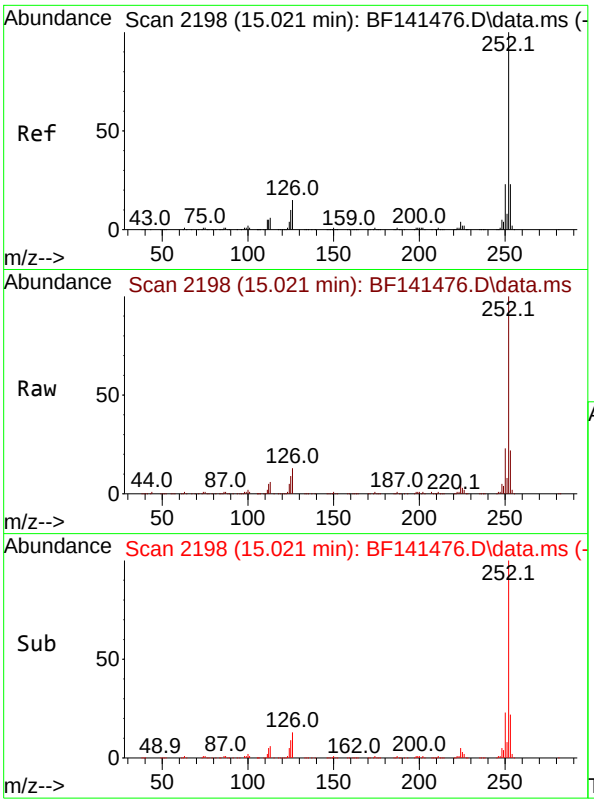


#88
Benzo(b)fluoranthene
Concen: 39.783 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 488585

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	8.8	7.0	10.6



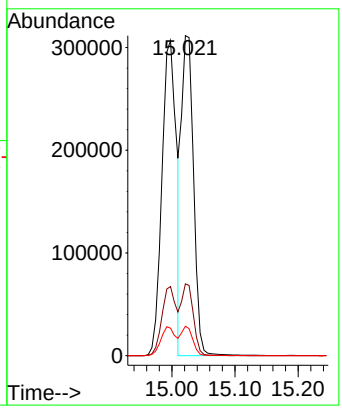


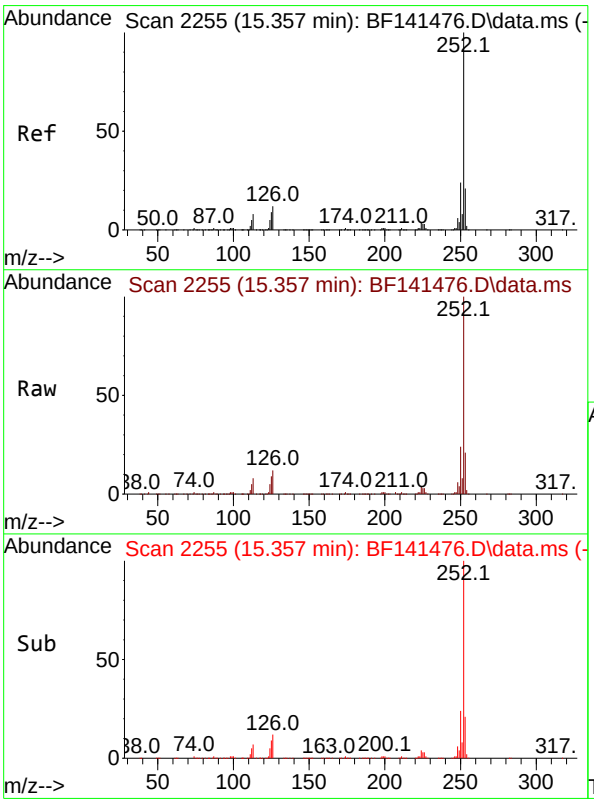
#89
Benzo(k)fluoranthene
Concen: 39.836 ng
RT: 15.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 417770

Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0
125	9.2	7.4	11.0

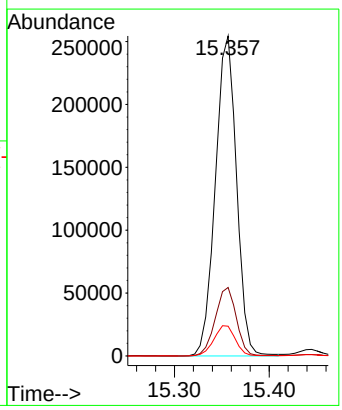


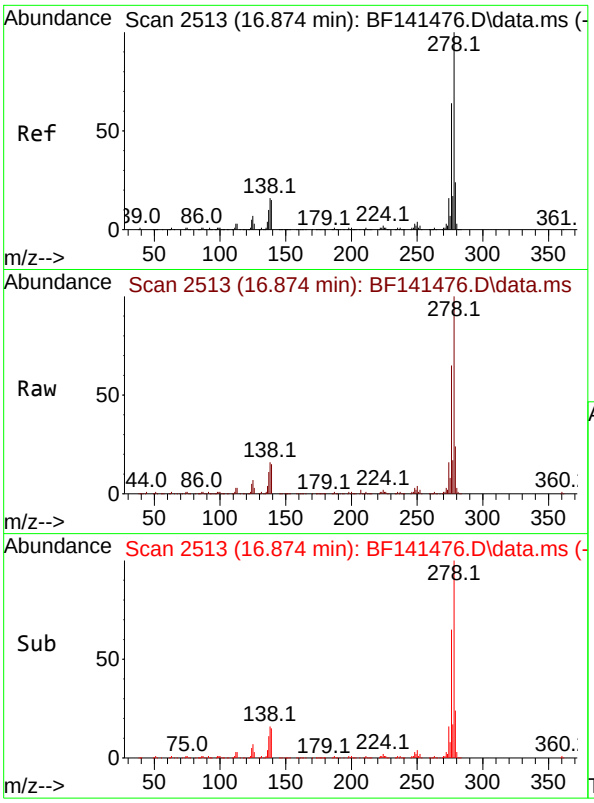


#90
Benzo(a)pyrene
Concen: 39.767 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:252 Resp: 395193

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.1	25.7
125	9.3	7.4	11.2



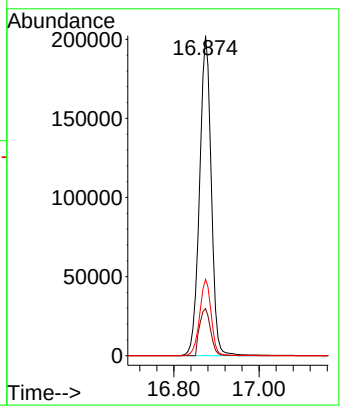


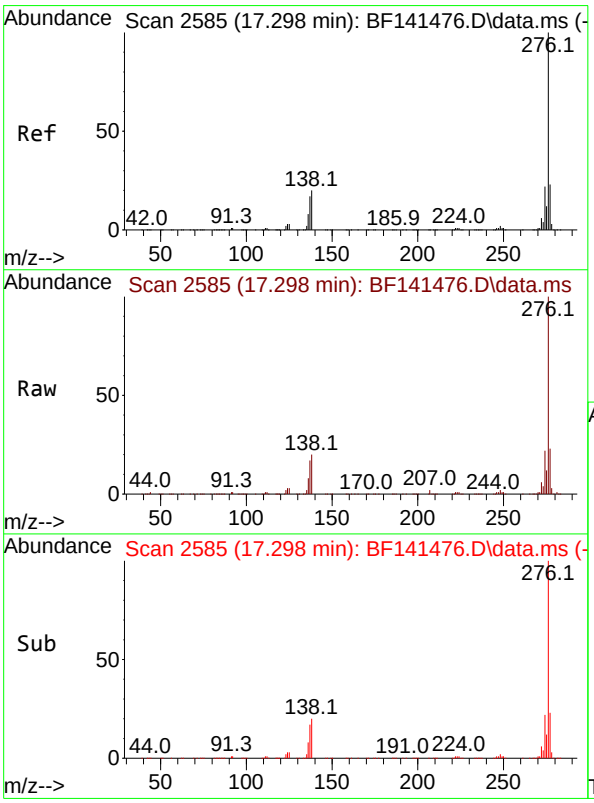
#91
Dibenzo(a,h)anthracene
Concen: 42.001 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 384623

Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.8	17.6
279	23.9	19.1	28.7

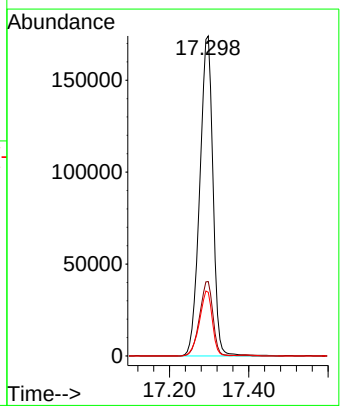




#92
Benzo(g,h,i)perylene
Concen: 41.992 ng
RT: 17.298 min Scan# 2585
Delta R.T. -0.018 min
Lab File: BF141476.D
Acq: 06 Feb 2025 12:55

Tgt Ion:276 Resp: 402413

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	19.9	15.9	23.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141477.D
Acq On : 06 Feb 2025 13:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 06 16:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	87860	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	347298	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	190523	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	323702	20.000	ng	0.00
76) Chrysene-d12	13.963	240	205879	20.000	ng	0.00
86) Perylene-d12	15.415	264	174906	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	559309	99.801	ng	0.00
7) Phenol-d6	6.434	99	702435	99.168	ng	0.00
23) Nitrobenzene-d5	7.357	82	657106	98.686	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	189178	98.845	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1182292	95.605	ng	0.00
79) Terphenyl-d14	12.904	244	1244053	102.010	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	110258	48.882	ng	98
3) Pyridine	3.210	79	275985	51.419	ng	100
4) n-Nitrosodimethylamine	3.169	42	183299	51.575	ng	97
6) Aniline	6.457	93	330719	49.774	ng	86
8) 2-Chlorophenol	6.581	128	300380	49.604	ng	98
9) Benzaldehyde	6.340	77	164133	43.605	ng	99
10) Phenol	6.445	94	364380	49.425	ng	98
11) bis(2-Chloroethyl)ether	6.528	93	274892	49.643	ng	98
12) 1,3-Dichlorobenzene	6.728	146	316493	49.506	ng	98
13) 1,4-Dichlorobenzene	6.810	146	321786	49.264	ng	98
14) 1,2-Dichlorobenzene	6.963	146	296834	48.964	ng	99
15) Benzyl Alcohol	6.934	79	274040	50.451	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.069	45	465332	49.091	ng	97
17) 2-Methylphenol	7.051	107	232571	49.081	ng	100
18) Hexachloroethane	7.298	117	122071	50.498	ng	98
19) n-Nitroso-di-n-propyla...	7.210	70	207915	49.072	ng	98
20) 3+4-Methylphenols	7.204	107	295179	49.011	ng	96
22) Acetophenone	7.204	105	419759	48.588	ng	99
24) Nitrobenzene	7.375	77	320155	49.308	ng	100
25) Isophorone	7.616	82	521533	49.123	ng	99
26) 2-Nitrophenol	7.692	139	164623	50.962	ng	96
27) 2,4-Dimethylphenol	7.734	122	189037	50.093	ng	98
28) bis(2-Chloroethoxy)met...	7.822	93	336274	49.430	ng	100
29) 2,4-Dichlorophenol	7.939	162	251518	49.328	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	270897	48.788	ng	99
31) Naphthalene	8.098	128	878692	48.605	ng	100
32) Benzoic acid	7.863	122	202728	51.719	ng	99
33) 4-Chloroaniline	8.151	127	312251	49.471	ng	99
34) Hexachlorobutadiene	8.210	225	163240	48.971	ng	99
35) Caprolactam	8.522	113	76350	49.180	ng	97
36) 4-Chloro-3-methylphenol	8.633	107	280911	49.736	ng	99
37) 2-Methylnaphthalene	8.786	142	572244	48.643	ng	99
38) 1-Methylnaphthalene	8.886	142	553503	48.579	ng	98
40) 1,2,4,5-Tetrachloroben...	8.951	216	266614	48.369	ng	98
41) Hexachlorocyclopentadiene	8.939	237	97674	53.276	ng	100
43) 2,4,6-Trichlorophenol	9.063	196	177503	49.825	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141477.D
Acq On : 06 Feb 2025 13:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 06 16:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

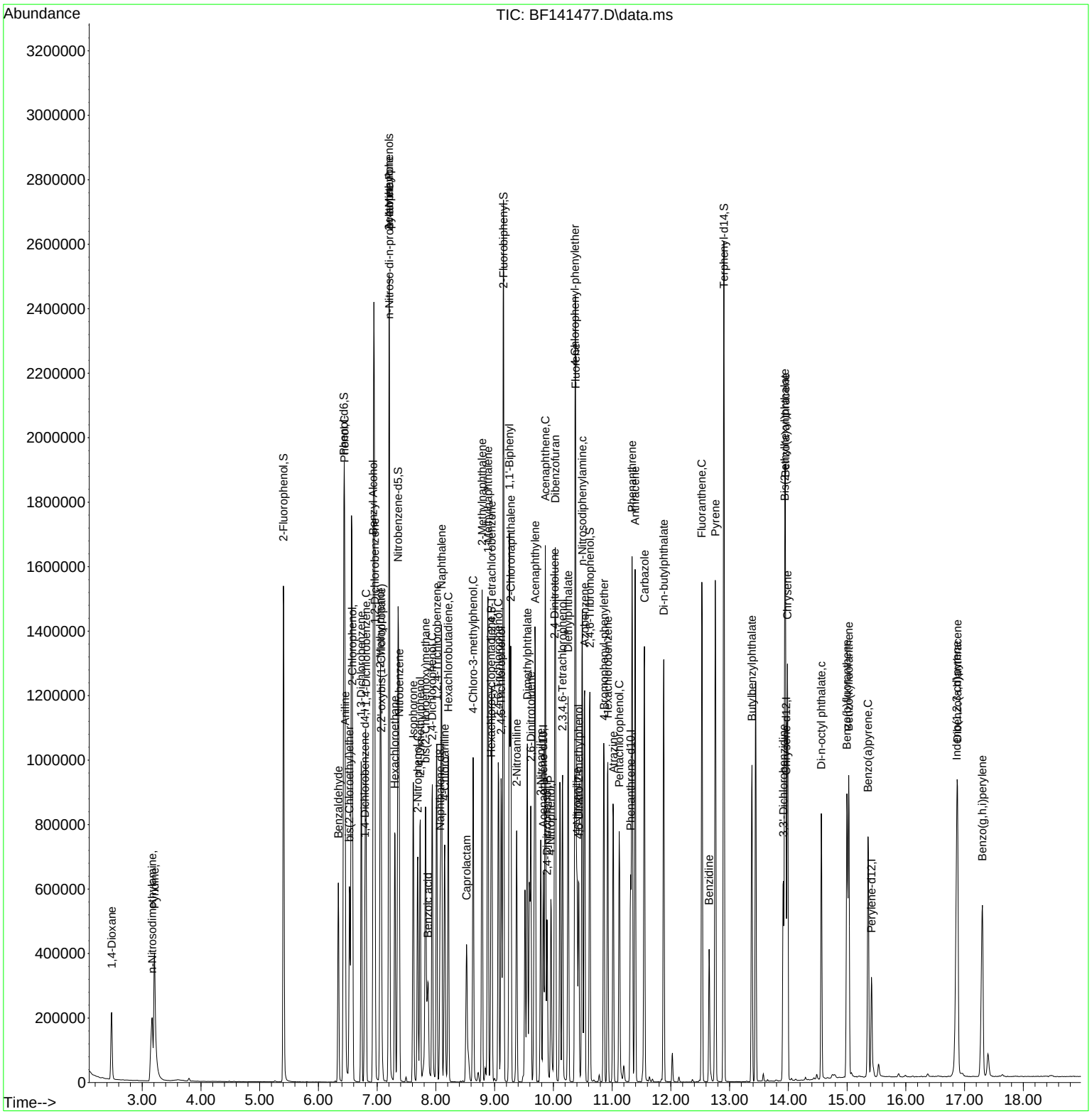
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	187902	48.667	ng	96
46) 1,1'-Biphenyl	9.251	154	722373	48.905	ng	100
47) 2-Chloronaphthalene	9.275	162	530577	48.576	ng	100
48) 2-Nitroaniline	9.375	65	181860	49.612	ng	99
49) Acenaphthylene	9.692	152	790730	48.672	ng	99
50) Dimethylphthalate	9.557	163	630673	48.760	ng	99
51) 2,6-Dinitrotoluene	9.616	165	140697	49.760	ng	98
52) Acenaphthene	9.863	154	527828	48.327	ng	100
53) 3-Nitroaniline	9.786	138	152426	50.087	ng	99
54) 2,4-Dinitrophenol	9.892	184	87953	52.339	ng	97
55) Dibenzofuran	10.033	168	777905	48.523	ng	100
56) 4-Nitrophenol	9.957	139	118835	52.603	ng	99
57) 2,4-Dinitrotoluene	10.022	165	185741	49.346	ng	98
58) Fluorene	10.380	166	590000	47.597	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	165559	49.807	ng	98
60) Diethylphthalate	10.251	149	619064	48.647	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	286530	48.048	ng	99
62) 4-Nitroaniline	10.404	138	151765	49.113	ng	99
63) Azobenzene	10.533	77	616638	48.742	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	114725	51.021	ng	97
66) n-Nitrosodiphenylamine	10.492	169	505770	48.810	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	177761	49.135	ng	98
68) Hexachlorobenzene	10.927	284	180930	48.567	ng	98
69) Atrazine	11.022	200	149758	48.175	ng	98
70) Pentachlorophenol	11.122	266	128081	53.769	ng	99
71) Phenanthrene	11.339	178	866517	48.631	ng	100
72) Anthracene	11.392	178	877393	48.984	ng	99
73) Carbazole	11.551	167	781733	48.504	ng	100
74) Di-n-butylphthalate	11.880	149	915782	49.210	ng	100
75) Fluoranthene	12.527	202	913699	48.367	ng	100
77) Benzidine	12.651	184	222606	49.026	ng	99
78) Pyrene	12.757	202	913198	52.106	ng	100
80) Butylbenzylphthalate	13.380	149	310612	51.168	ng	99
81) Benzo(a)anthracene	13.951	228	673785	49.234	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	186802	47.650	ng	98
83) Chrysene	13.986	228	625572	49.505	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	350121	51.138	ng	100
85) Di-n-octyl phthalate	14.563	149	519741	53.213	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	586584	54.277	ng	99
88) Benzo(b)fluoranthene	14.998	252	590149	50.251	ng	99
89) Benzo(k)fluoranthene	15.027	252	469466	46.814	ng	100
90) Benzo(a)pyrene	15.357	252	467288	49.173	ng	99
91) Dibenzo(a,h)anthracene	16.880	278	477285	54.503	ng	99
92) Benzo(g,h,i)perylene	17.304	276	500274	54.592	ng	99

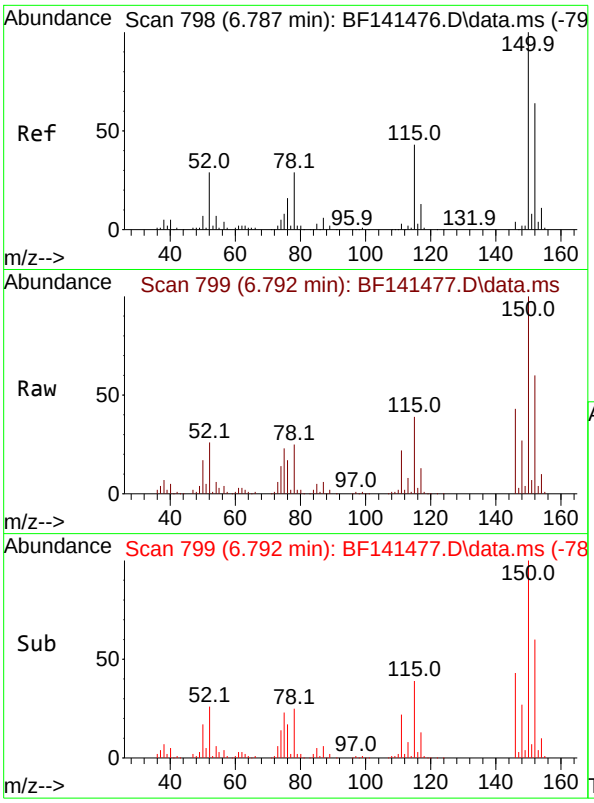
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141477.D
Acq On : 06 Feb 2025 13:21
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 06 16:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



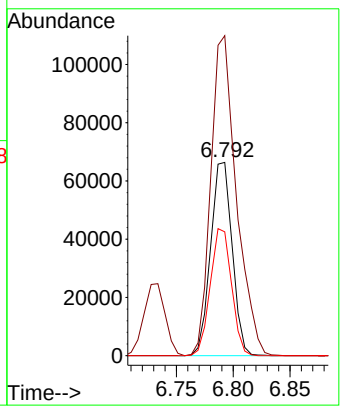


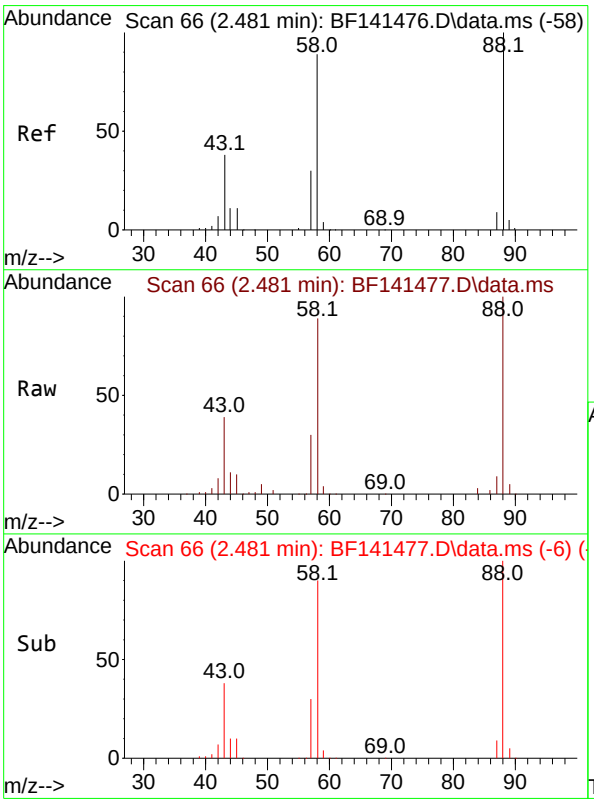
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 87860

Ion	Ratio	Lower	Upper
152	100		
150	165.6	125.0	187.4
115	64.1	53.6	80.4

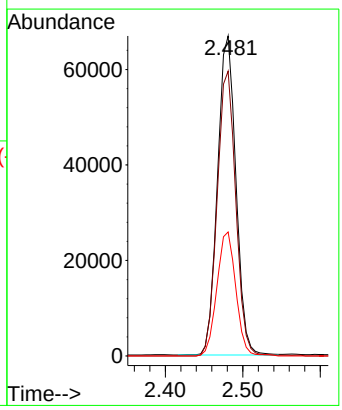


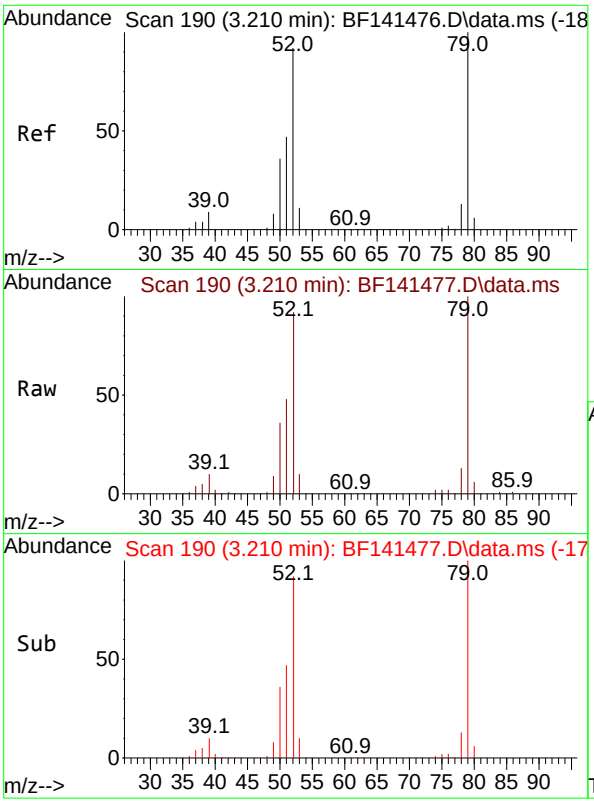


#2
1,4-Dioxane
Concen: 48.882 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 88 Resp: 110258

Ion	Ratio	Lower	Upper
88	100		
58	90.6	71.1	106.7
43	40.1	30.6	46.0



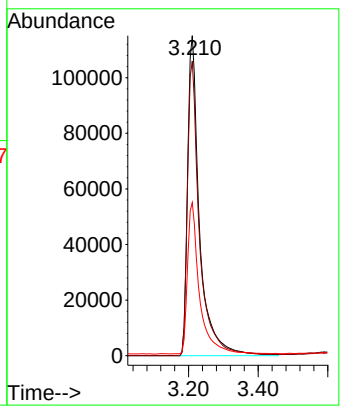


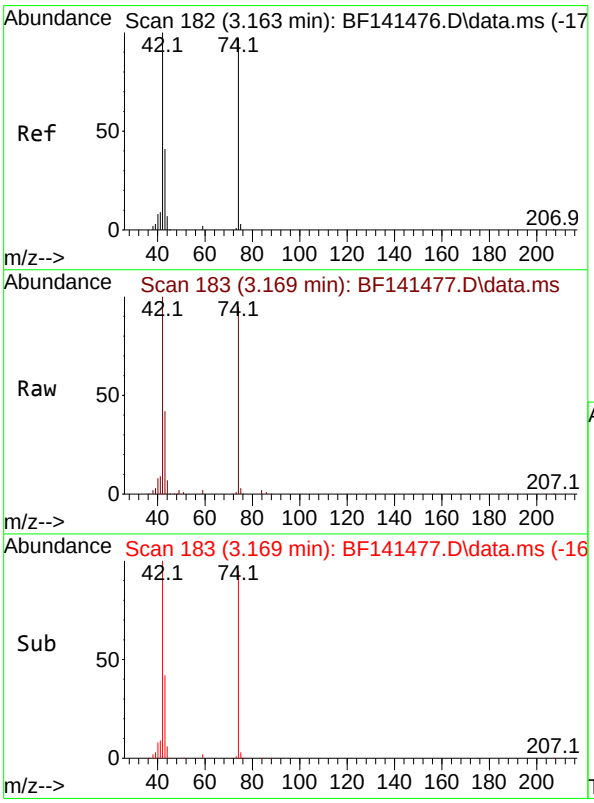
#3
Pyridine
Concen: 51.419 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 275985

Ion	Ratio	Lower	Upper
79	100		
52	92.1	73.7	110.5
51	47.9	37.5	56.3

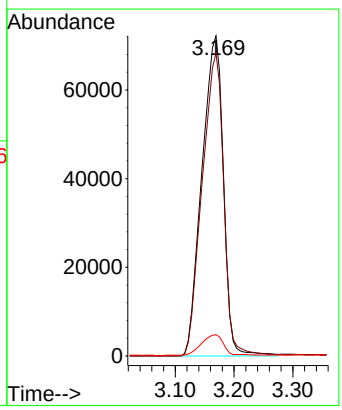


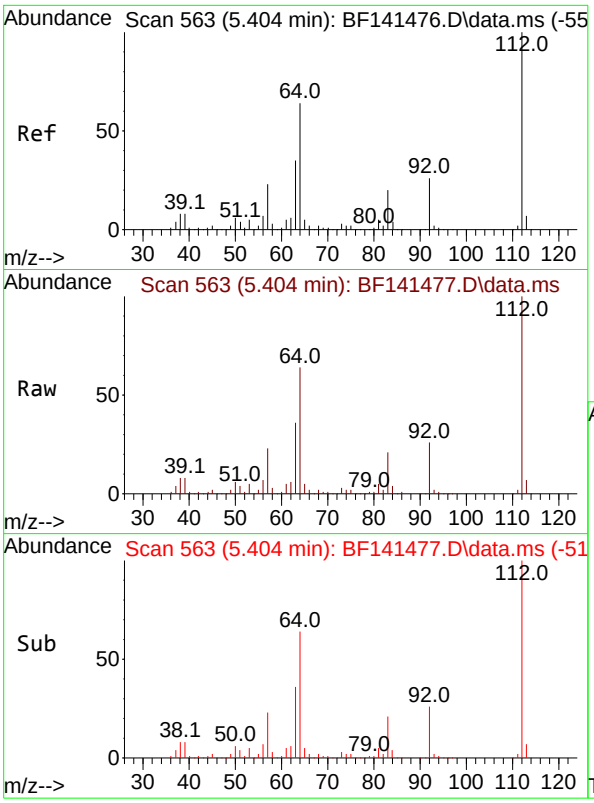


#4
n-Nitrosodimethylamine
Concen: 51.575 ng
RT: 3.169 min Scan# 183
Delta R.T. -0.018 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 42 Resp: 183299

Ion	Ratio	Lower	Upper
42	100		
74	94.6	78.0	117.0
44	6.7	5.4	8.2



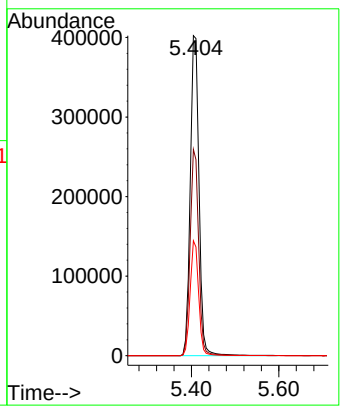


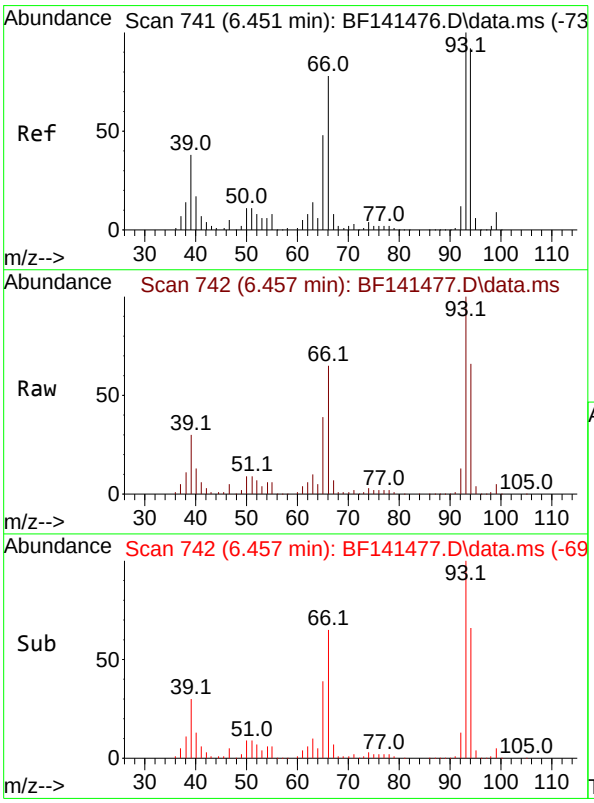
#5
2-Fluorophenol
Concen: 99.801 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 559309

Ion	Ratio	Lower	Upper
112	100		
64	64.4	51.1	76.7
63	35.9	28.4	42.6

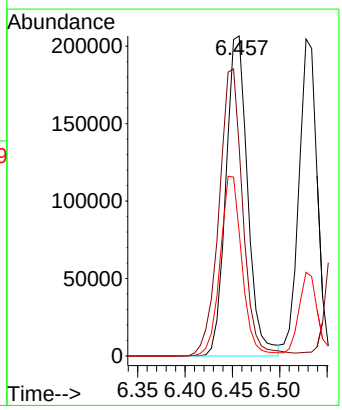


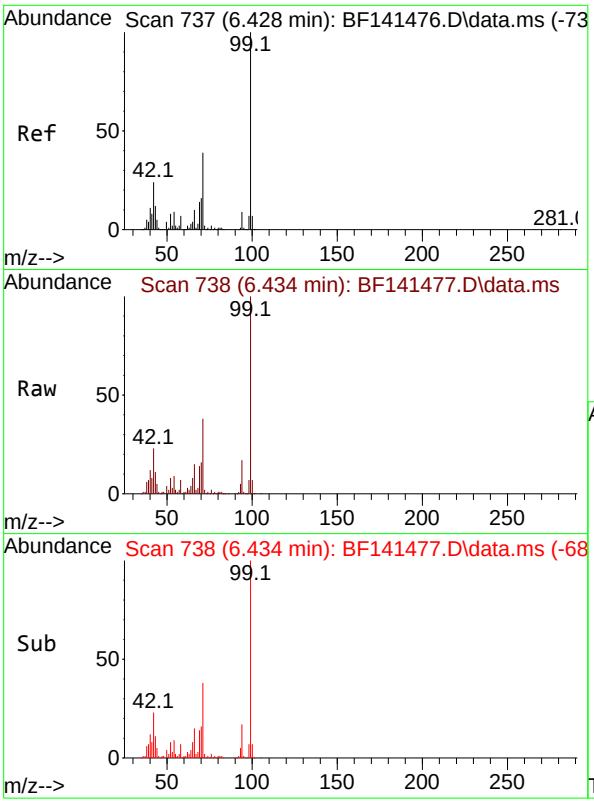


#6
Aniline
Concen: 49.774 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 93 Resp: 330719

Ion	Ratio	Lower	Upper
93	100		
66	65.4	62.6	94.0
65	38.7	38.3	57.5



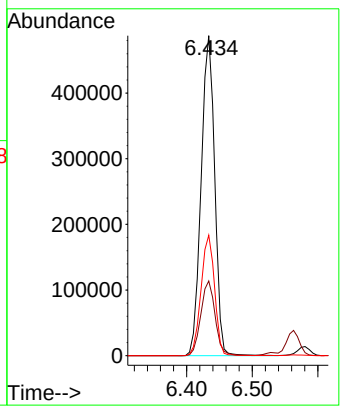


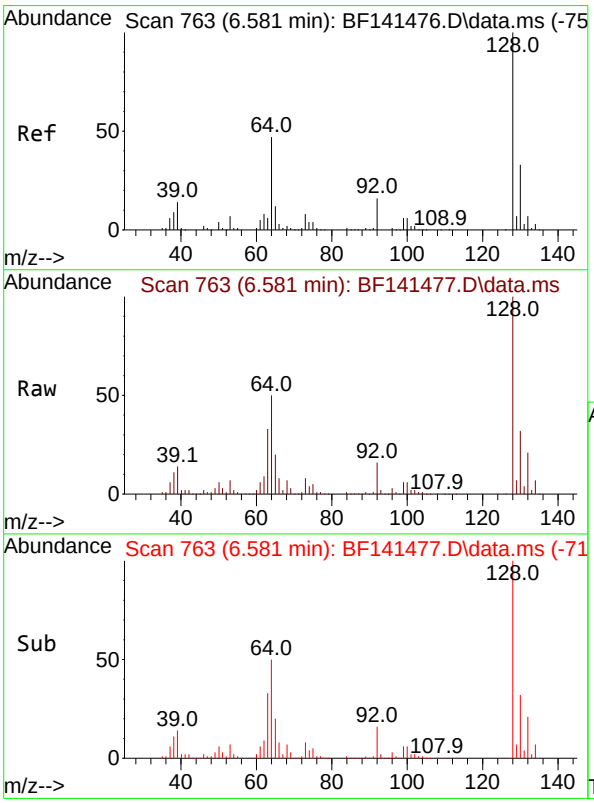
#7
Phenol-d6
Concen: 99.168 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 702435

Ion	Ratio	Lower	Upper
99	100		
42	23.4	19.1	28.7
71	37.6	31.1	46.7

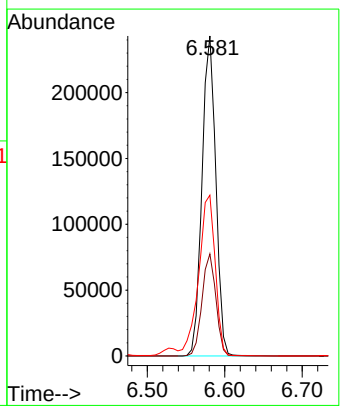


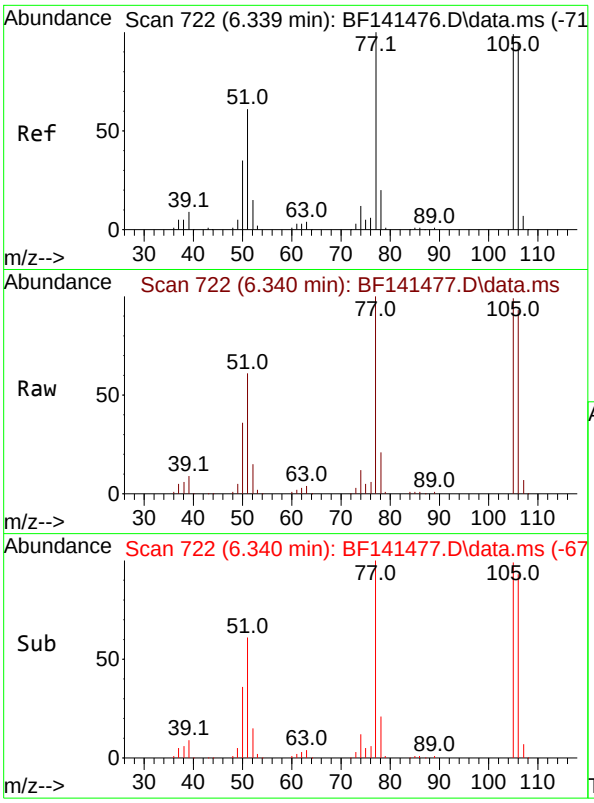


#8
2-Chlorophenol
Concen: 49.604 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:128 Resp: 300380

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.7	52.7
64	50.3	28.3	68.3



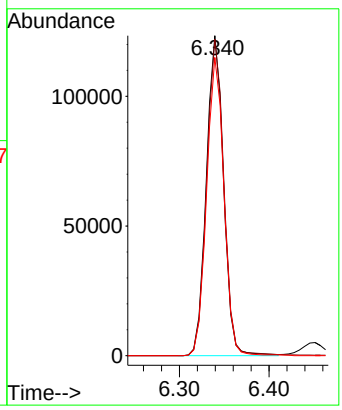


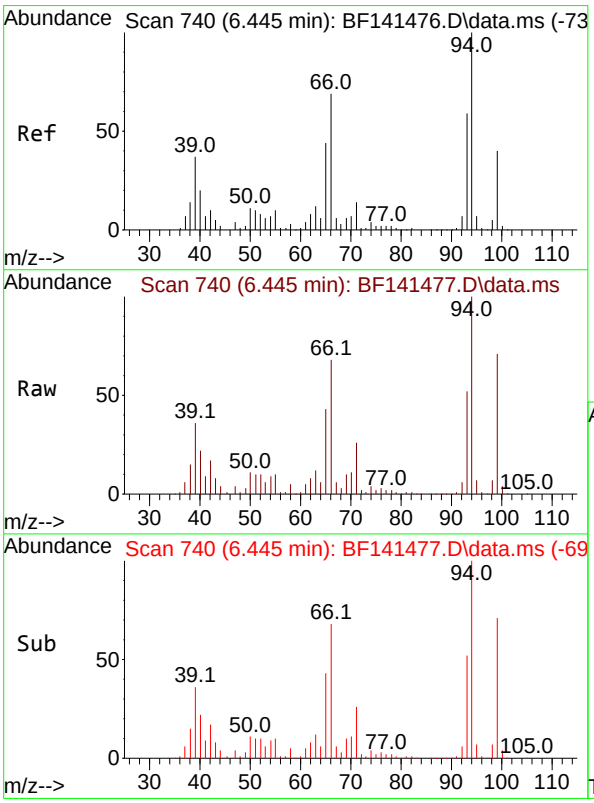
#9
Benzaldehyde
Concen: 43.605 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 164133

Ion	Ratio	Lower	Upper
77	100		
105	98.9	79.4	119.4
106	93.2	75.1	115.1

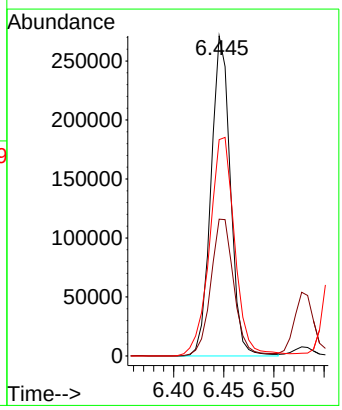


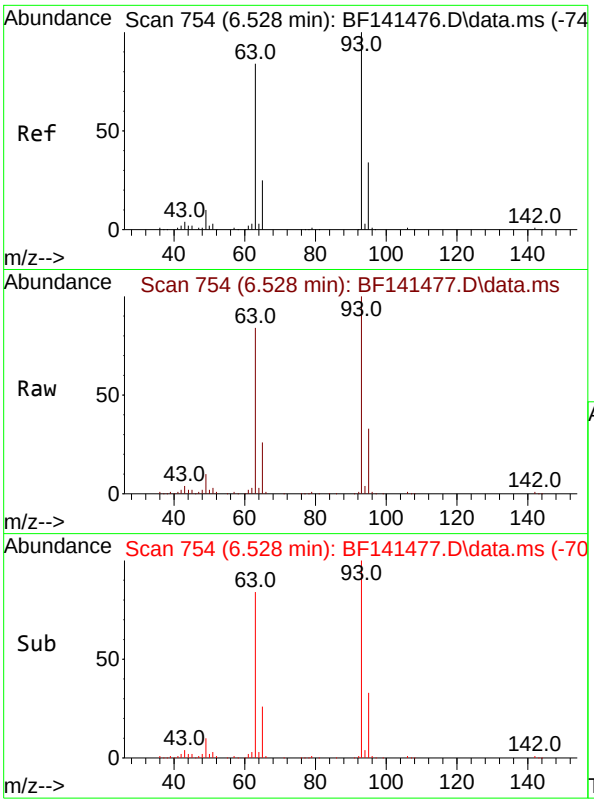


#10
Phenol
Concen: 49.425 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 94 Resp: 364380

Ion	Ratio	Lower	Upper
94	100		
65	42.8	23.7	63.7
66	67.6	49.3	89.3



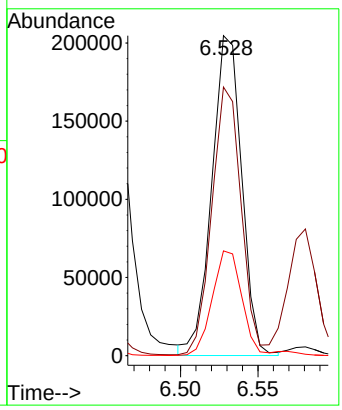


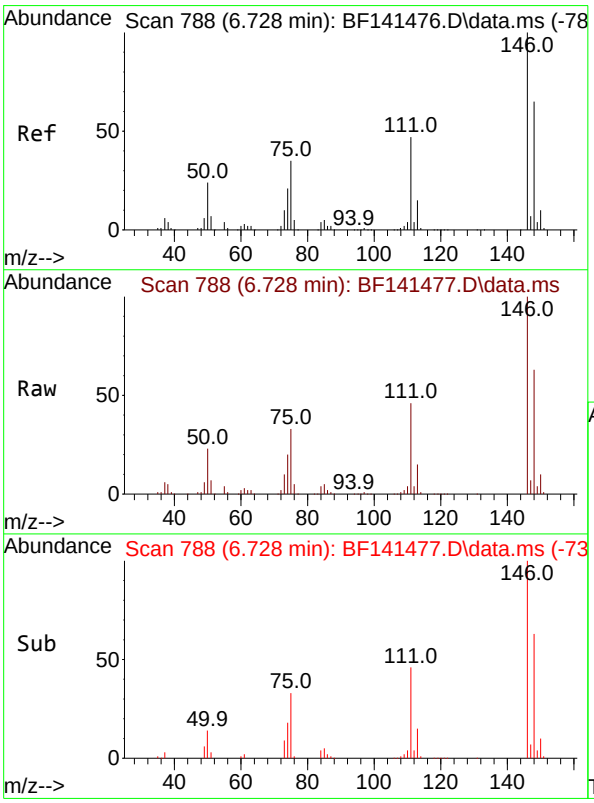
#11
bis(2-Chloroethyl)ether
Concen: 49.643 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 274892

Ion	Ratio	Lower	Upper
93	100		
63	83.9	62.0	102.0
95	32.8	12.6	52.6

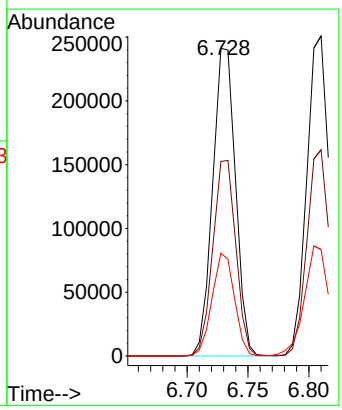


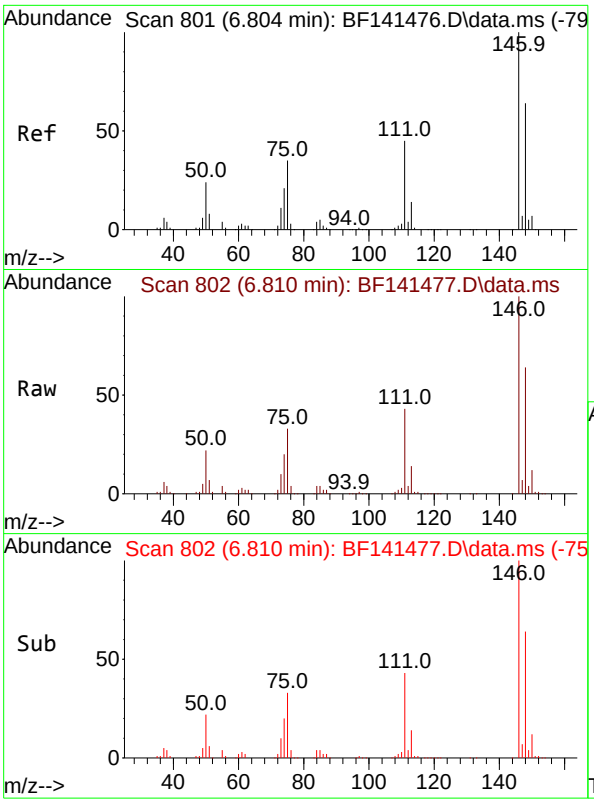


#12
1,3-Dichlorobenzene
Concen: 49.506 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:146 Resp: 316493

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.9	77.9
75	33.4	28.2	42.2



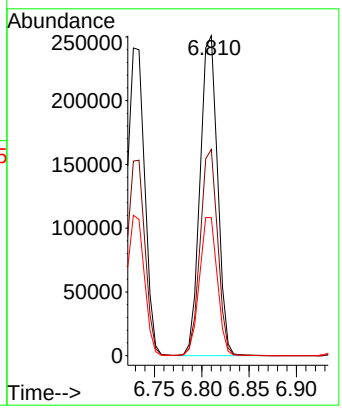


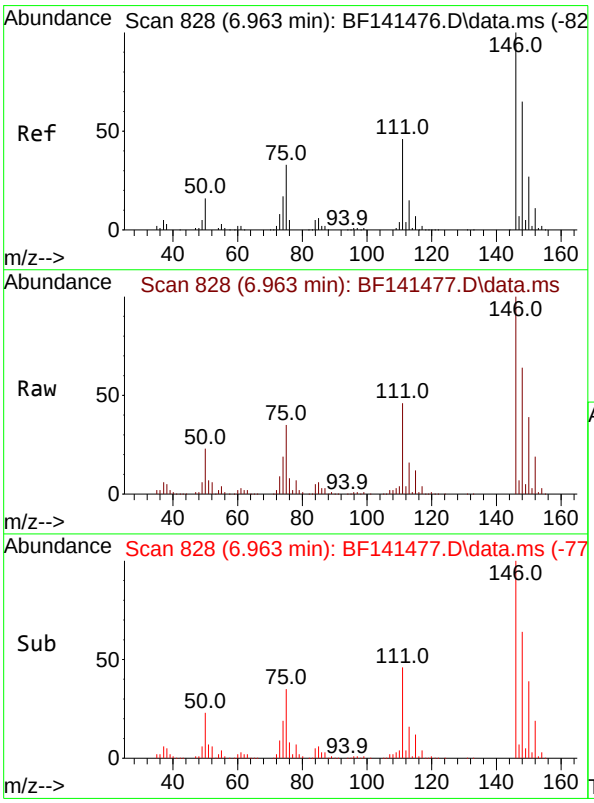
#13
1,4-Dichlorobenzene
Concen: 49.264 ng
RT: 6.810 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 321786

Ion	Ratio	Lower	Upper
146	100		
148	64.5	50.9	76.3
111	43.1	35.9	53.9

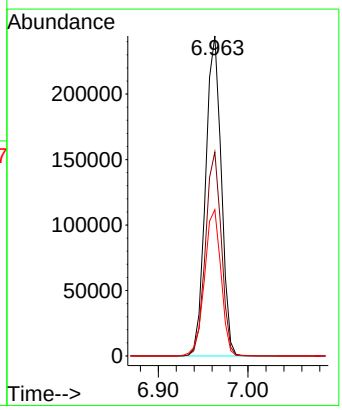


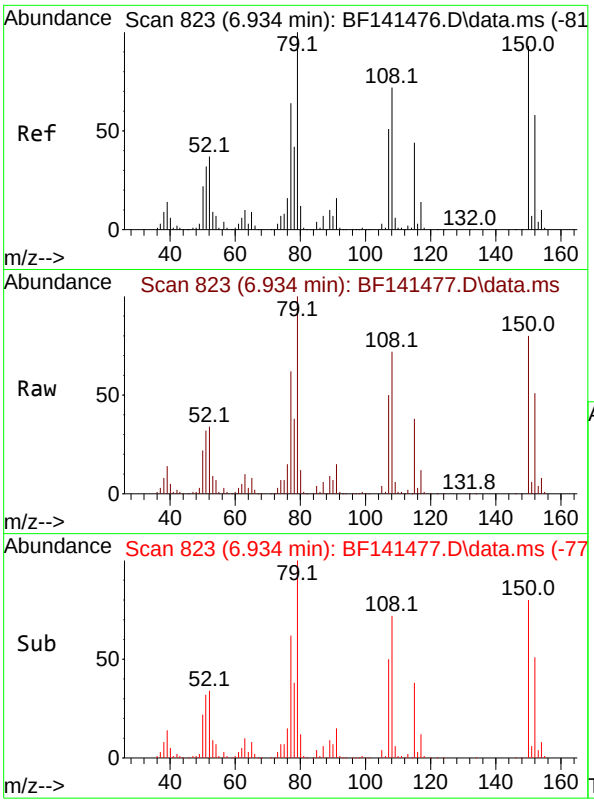


#14
1,2-Dichlorobenzene
Concen: 48.964 ng
RT: 6.963 min Scan# 828
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:146 Resp: 296834

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.8	77.6
111	45.7	37.0	55.4



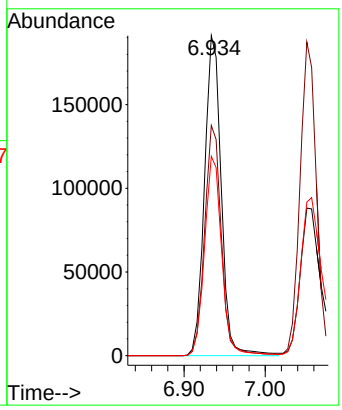


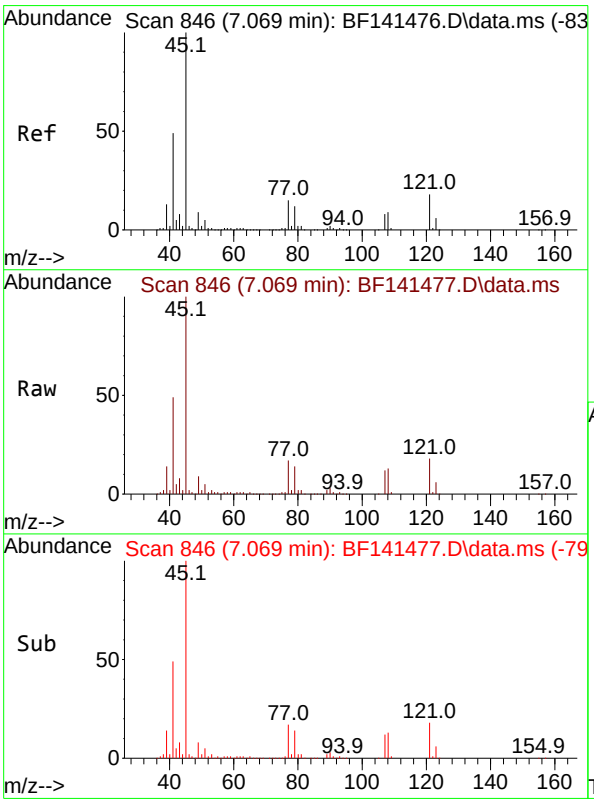
#15
Benzyl Alcohol
Concen: 50.451 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 274040

Ion	Ratio	Lower	Upper
79	100		
108	71.9	57.4	86.2
77	62.3	50.9	76.3

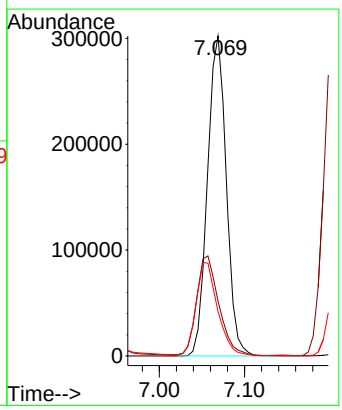


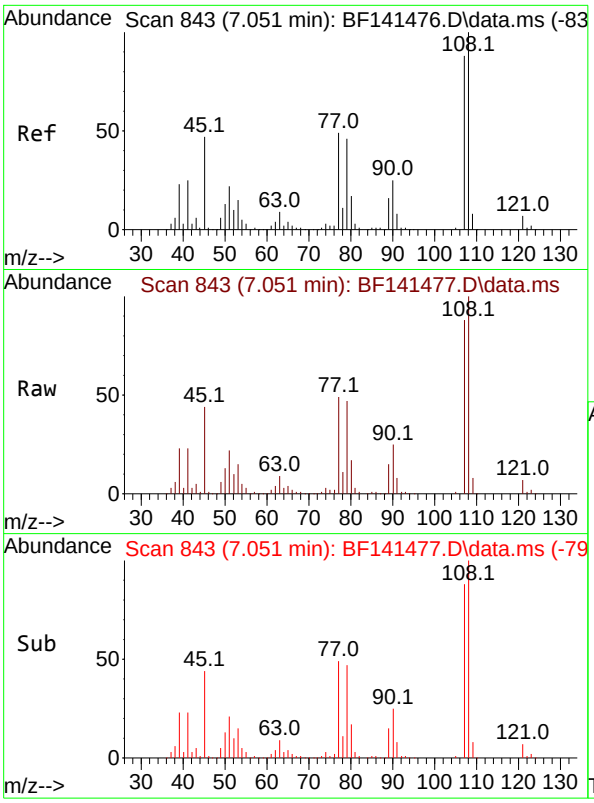


#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.091 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 45 Resp: 465332

Ion	Ratio	Lower	Upper
45	100		
77	17.2	0.0	35.8
79	13.9	0.0	32.7



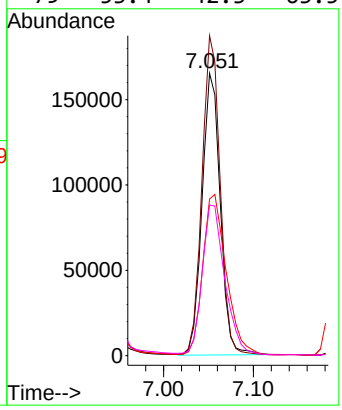


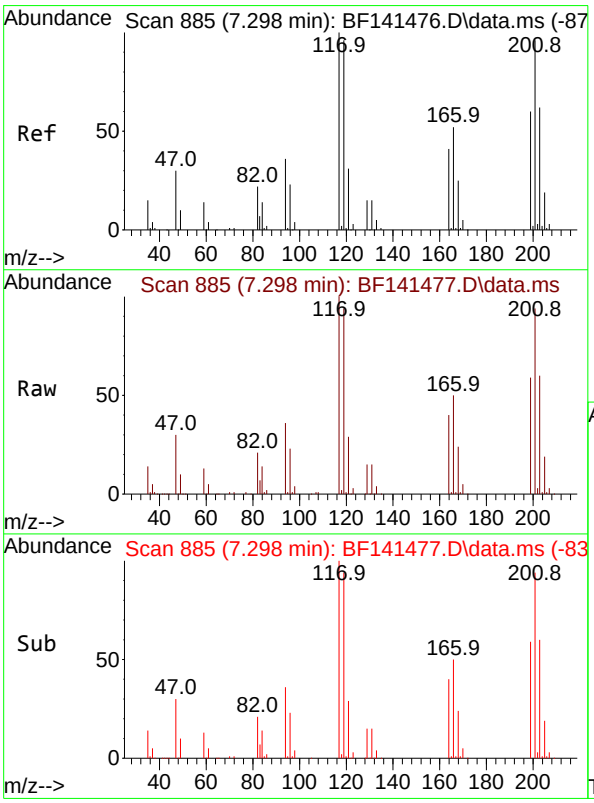
#17
2-Methylphenol
Concen: 49.081 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 232571

Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	136.0
77	55.4	44.4	66.6
79	53.4	42.3	63.5

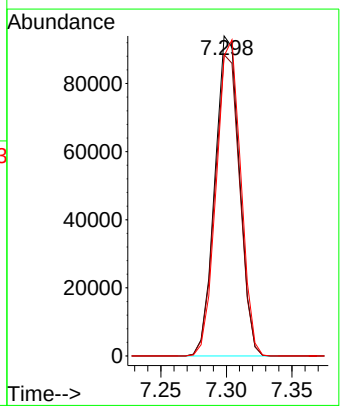


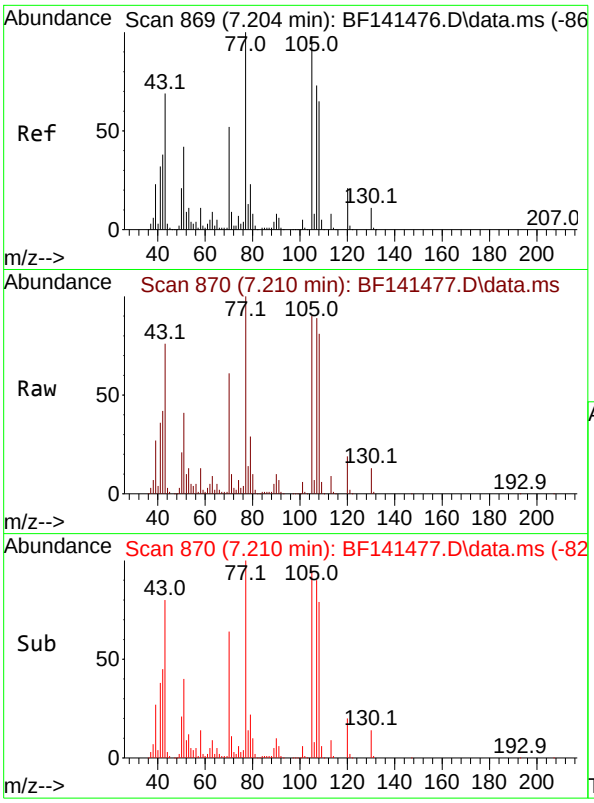


#18
Hexachloroethane
Concen: 50.498 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:117 Resp: 122071

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.5	114.7
201	93.8	76.7	115.1



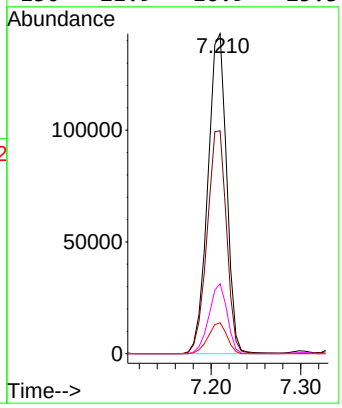


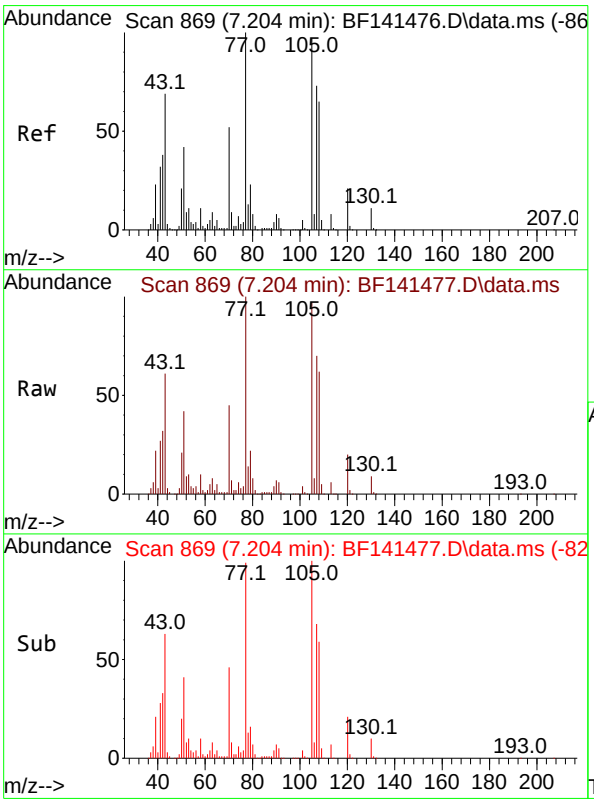
#19
n-Nitroso-di-n-propylamine
Concen: 49.072 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 207915

Ion	Ratio	Lower	Upper
70	100		
42	69.6	57.4	86.2
101	9.6	8.0	12.0
130	21.9	16.9	25.3

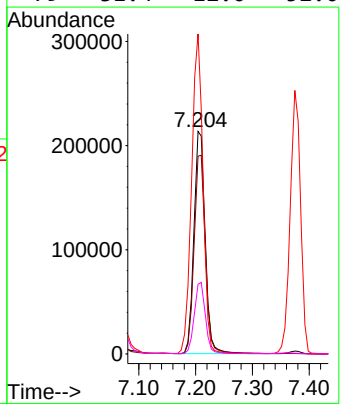


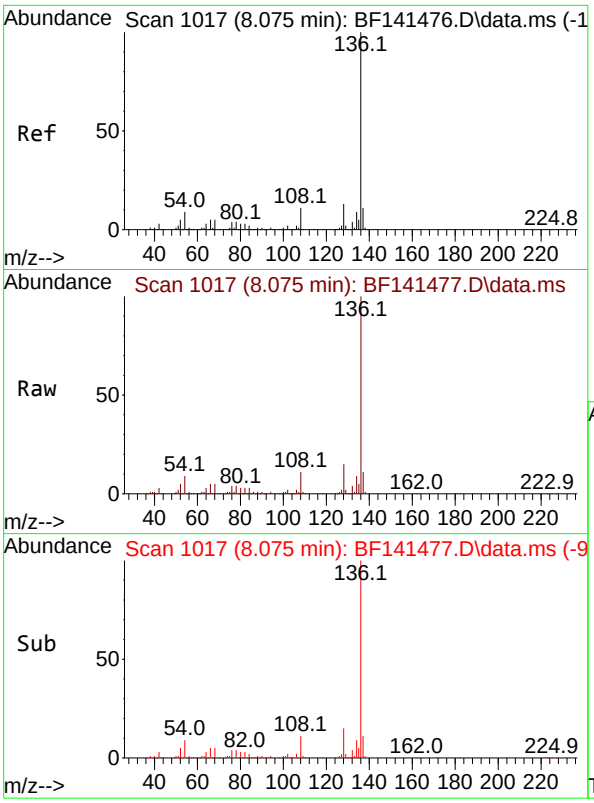


#20
3+4-Methylphenols
Concen: 49.011 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:107 Resp: 295179

Ion	Ratio	Lower	Upper
107	100		
108	88.9	68.5	108.5
77	143.8	116.5	156.5
79	31.4	12.0	52.0



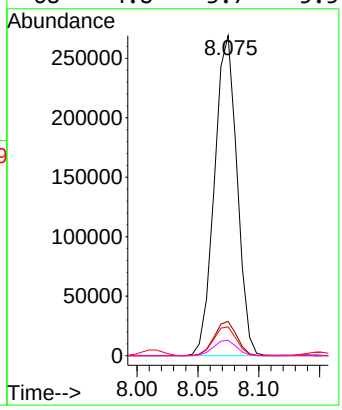


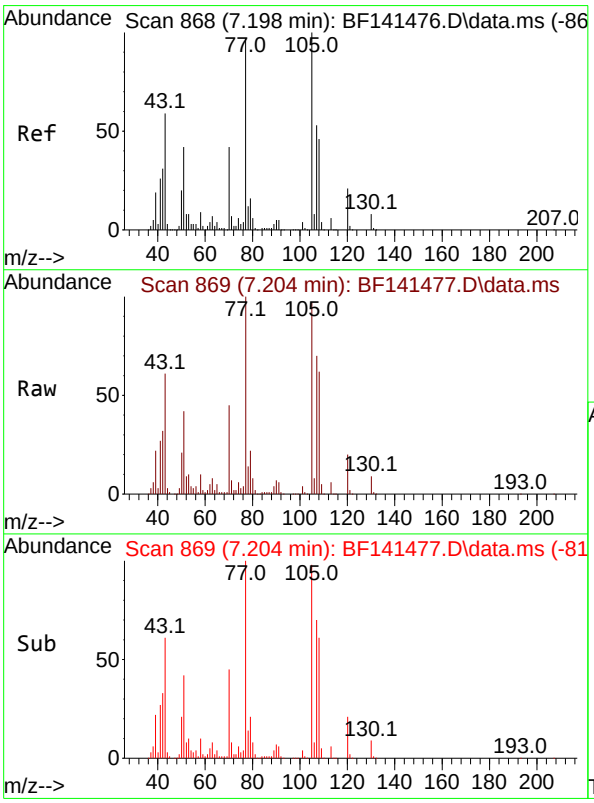
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 347298

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.0	7.2	10.8
68	4.8	3.7	5.5

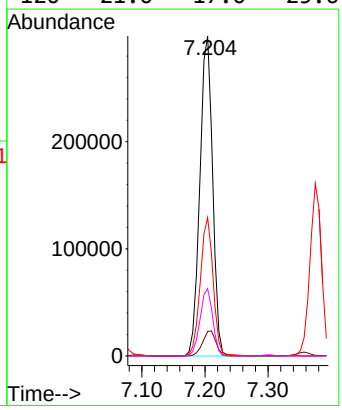


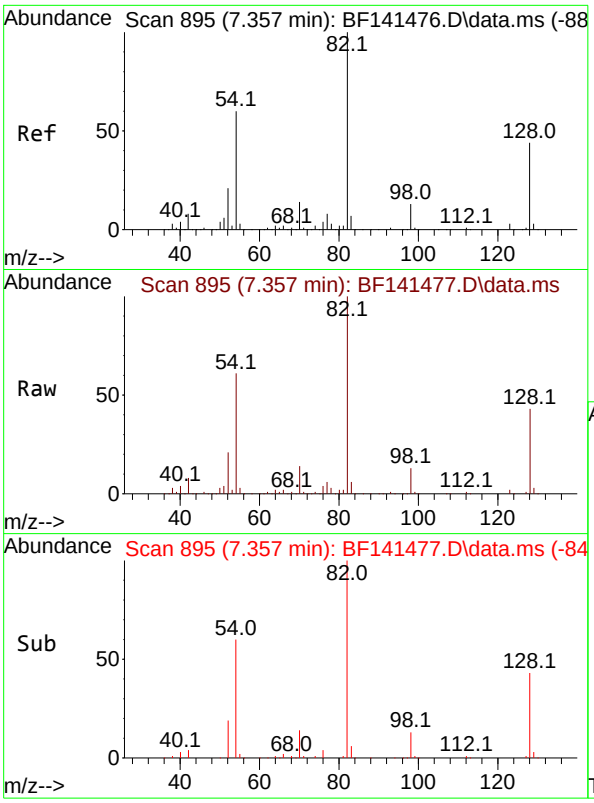


#22
Acetophenone
Concen: 48.588 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:105 Resp: 419759

Ion	Ratio	Lower	Upper
105	100		
71	7.7	5.7	8.5
51	43.2	33.7	50.5
120	21.0	17.0	25.6



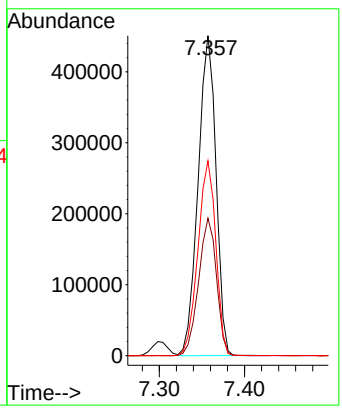


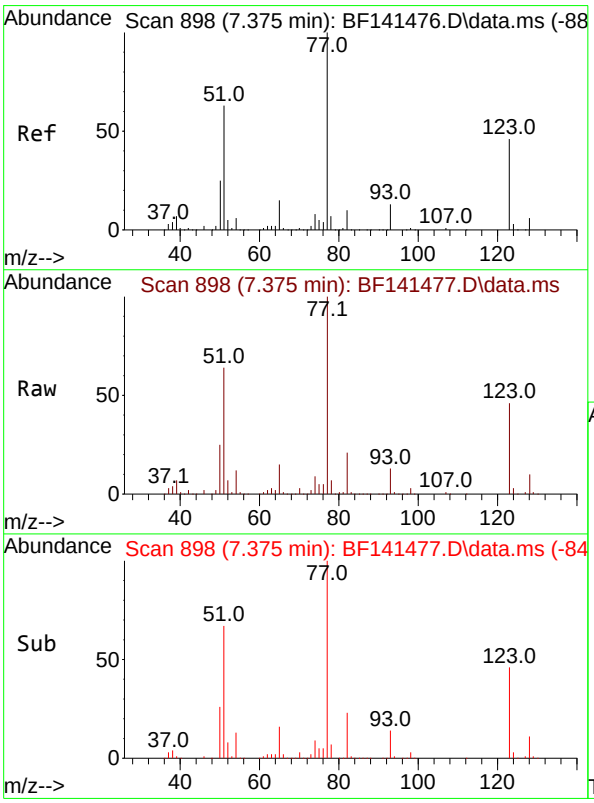
#23
Nitrobenzene-d5
Concen: 98.686 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 657106

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.8	52.2
54	60.9	48.2	72.4

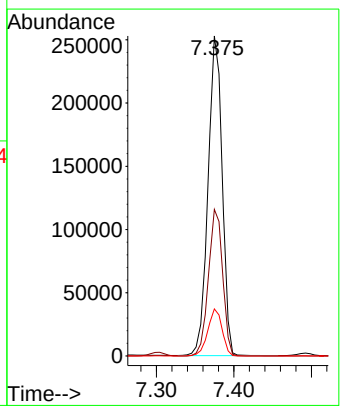


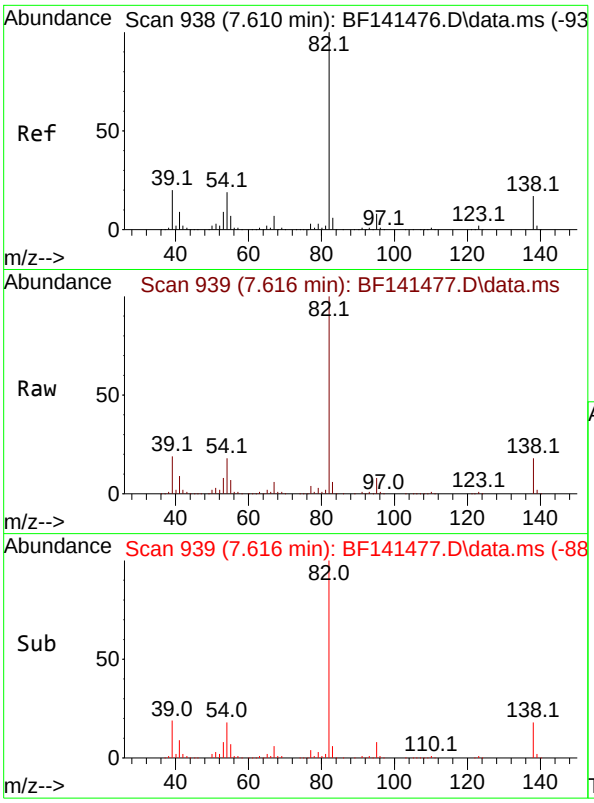


#24
Nitrobenzene
Concen: 49.308 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 77 Resp: 320155

Ion	Ratio	Lower	Upper
77	100		
123	45.8	36.9	55.3
65	14.7	11.9	17.9



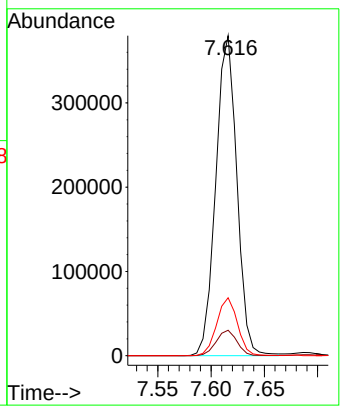


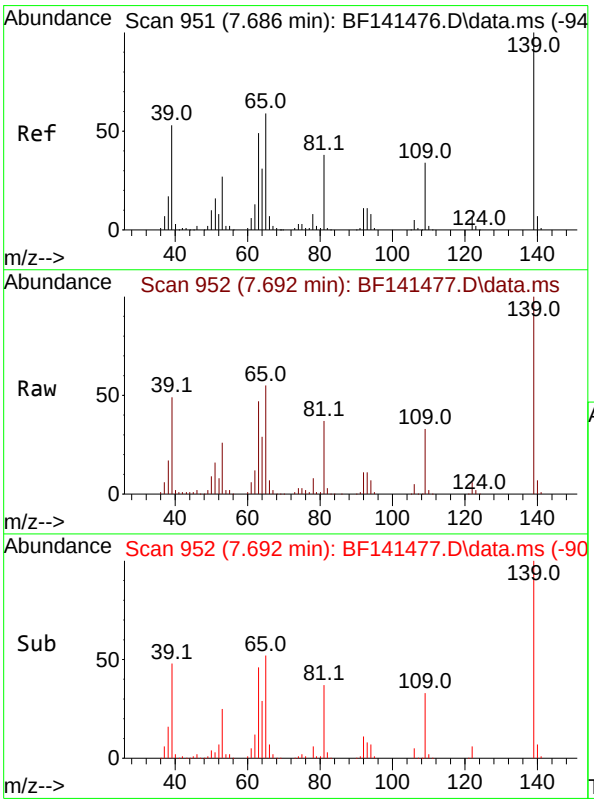
#25
Isophorone
Concen: 49.123 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 521533

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.4	9.6
138	18.1	13.9	20.9

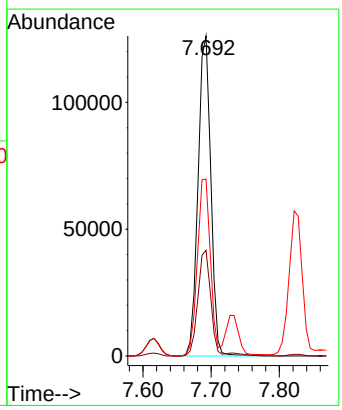


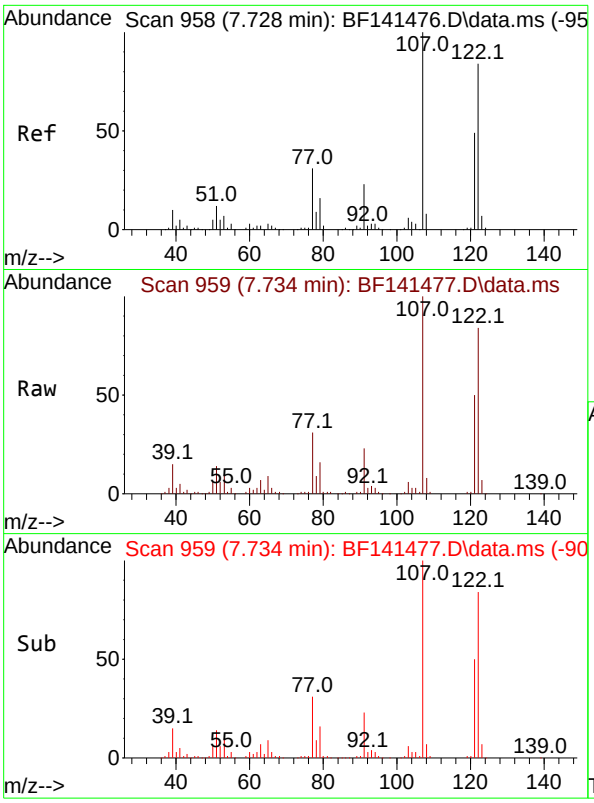


#26
2-Nitrophenol
Concen: 50.962 ng
RT: 7.692 min Scan# 952
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:139 Resp: 164623

Ion	Ratio	Lower	Upper
139	100		
109	33.0	27.0	40.6
65	55.3	47.1	70.7



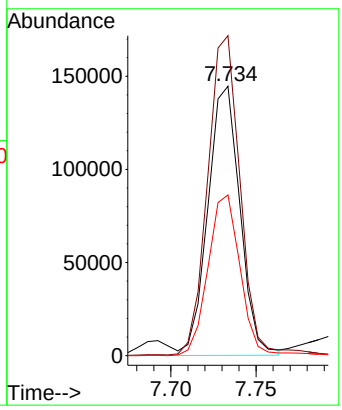


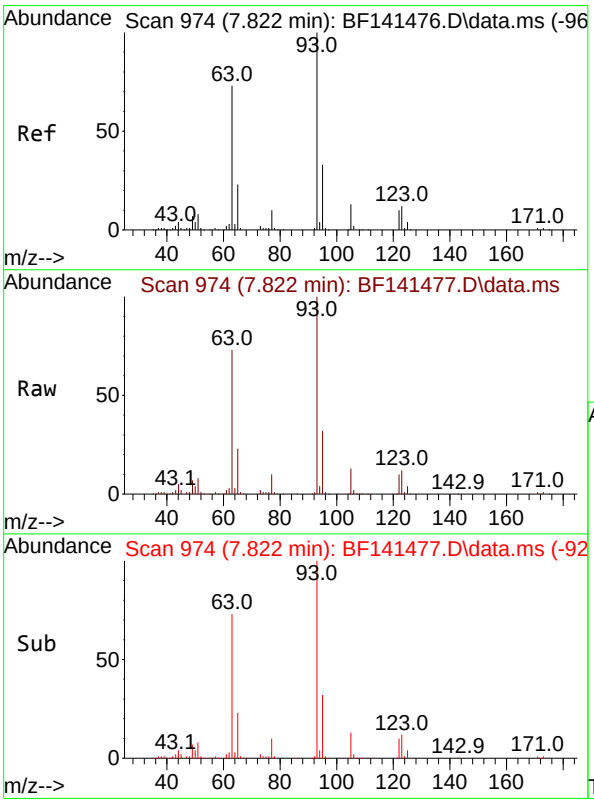
#27
2,4-Dimethylphenol
Concen: 50.093 ng
RT: 7.734 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 189037

Ion	Ratio	Lower	Upper
122	100		
107	118.8	94.3	141.5
121	59.7	46.0	69.0

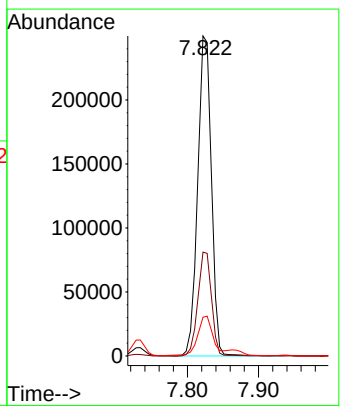


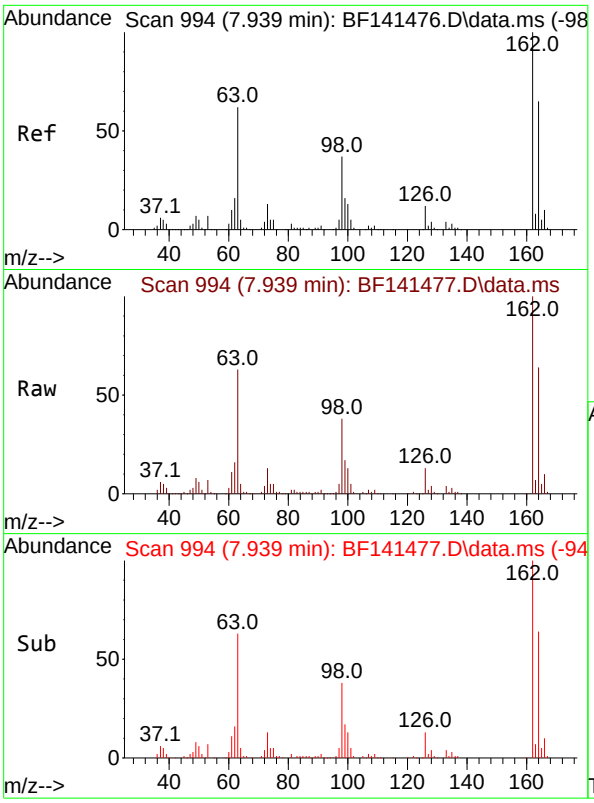


#28
bis(2-Chloroethoxy)methane
Concen: 49.430 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 93 Resp: 336274

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.1	39.1
123	12.1	9.5	14.3



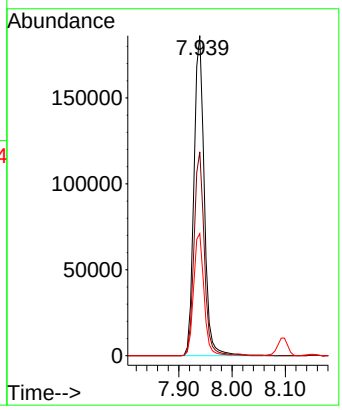


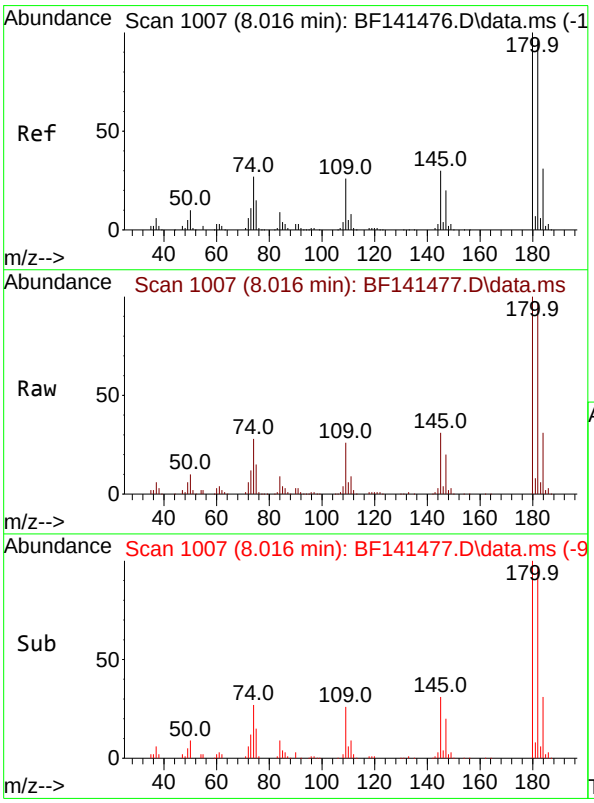
#29
2,4-Dichlorophenol
Concen: 49.328 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 251518

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.6	84.6
98	38.1	17.2	57.2

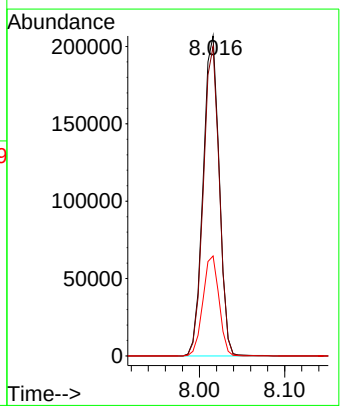


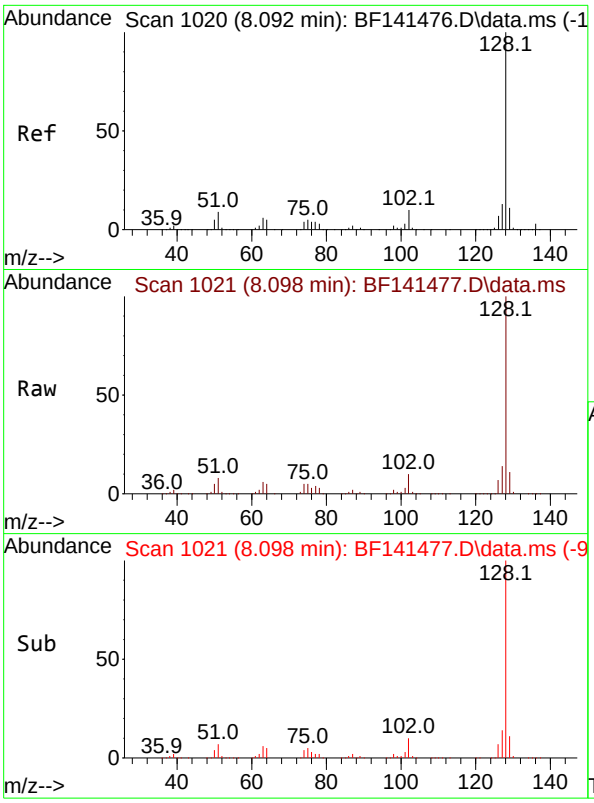


#30
1,2,4-Trichlorobenzene
Concen: 48.788 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:180 Resp: 270897

Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.8	115.2
145	31.3	24.2	36.4



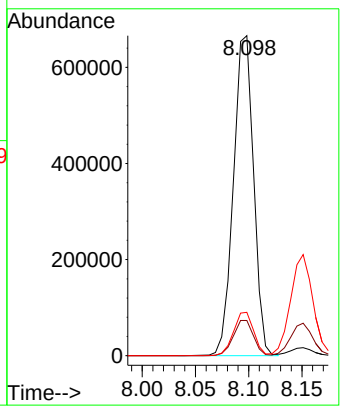


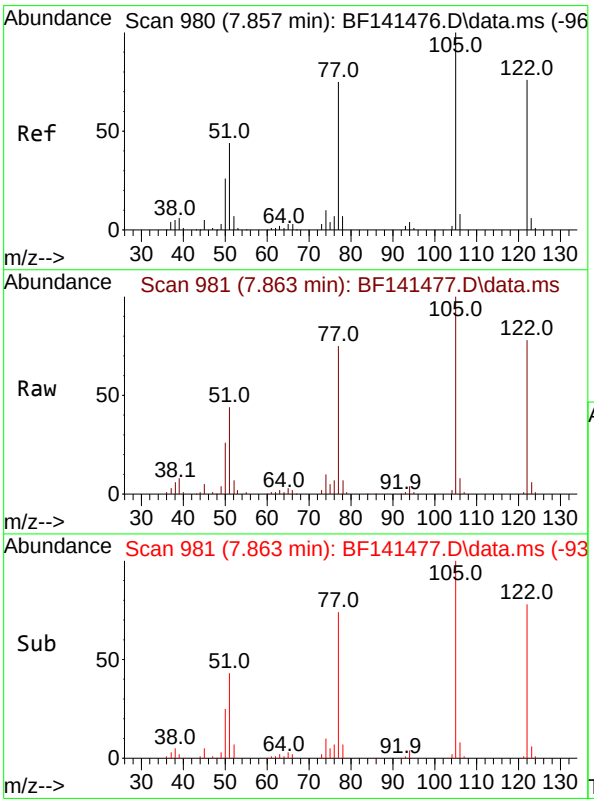
#31
Naphthalene
Concen: 48.605 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 878692

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.6	10.7	16.1

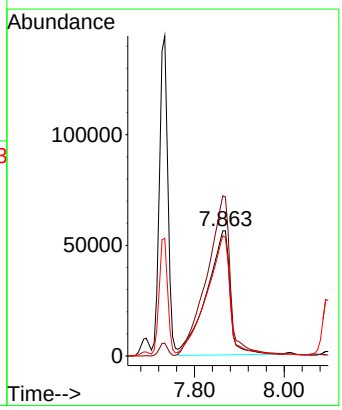


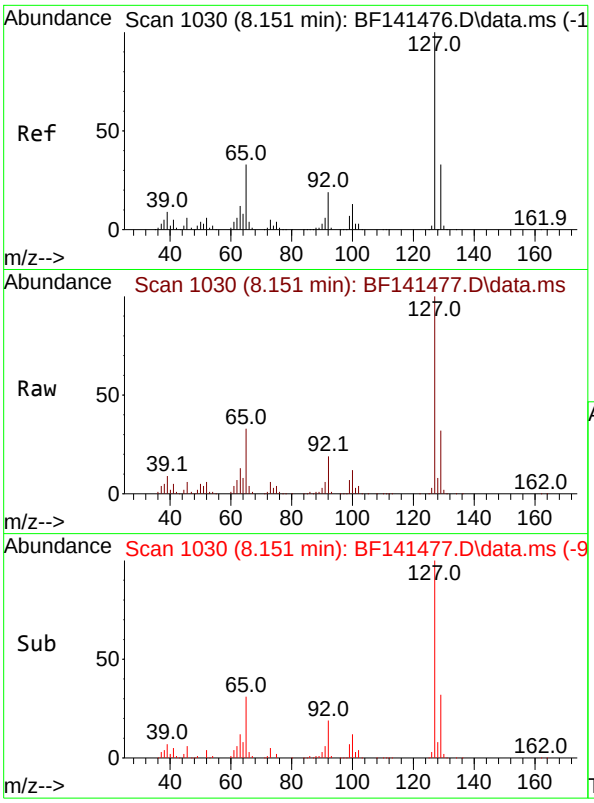


#32
Benzoic acid
Concen: 51.719 ng
RT: 7.863 min Scan# 981
Delta R.T. -0.029 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:122 Resp: 202728

Ion	Ratio	Lower	Upper
122	100		
105	128.0	106.5	146.5
77	96.0	76.3	116.3



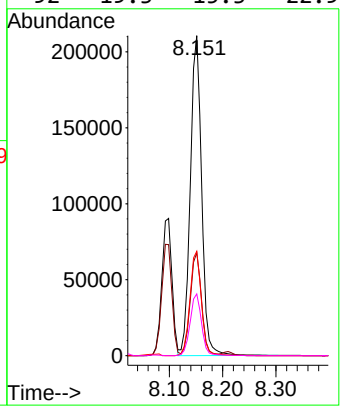


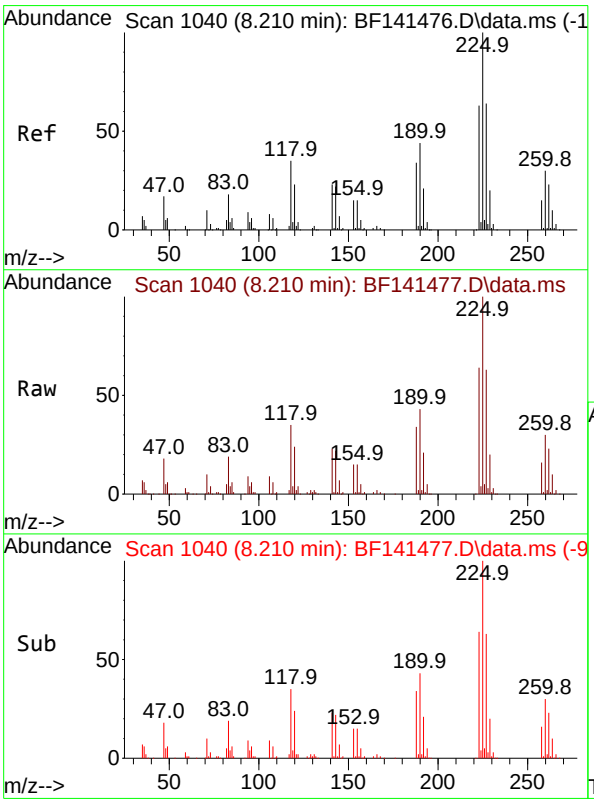
#33
4-Chloroaniline
Concen: 49.471 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 312251

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.5	39.7
65	32.6	26.4	39.6
92	19.3	15.3	22.9

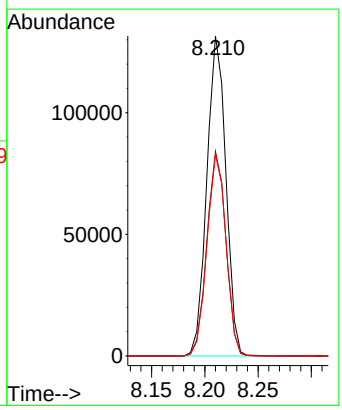


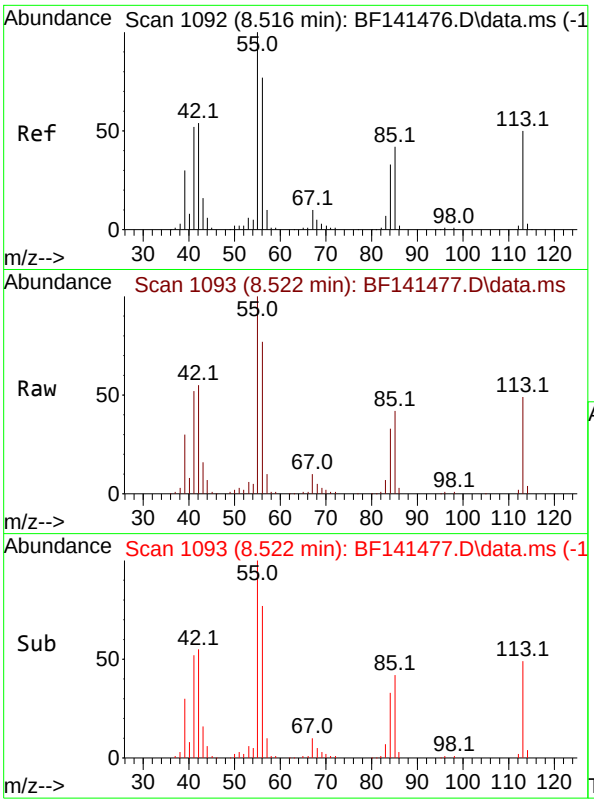


#34
Hexachlorobutadiene
Concen: 48.971 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:225 Resp: 163240

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.1	75.1
227	62.8	51.0	76.6



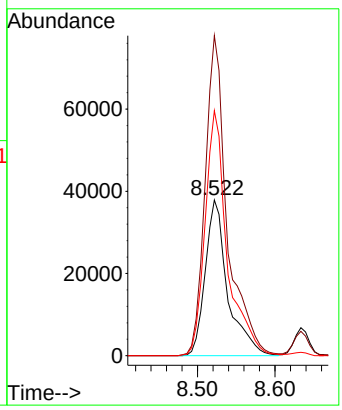


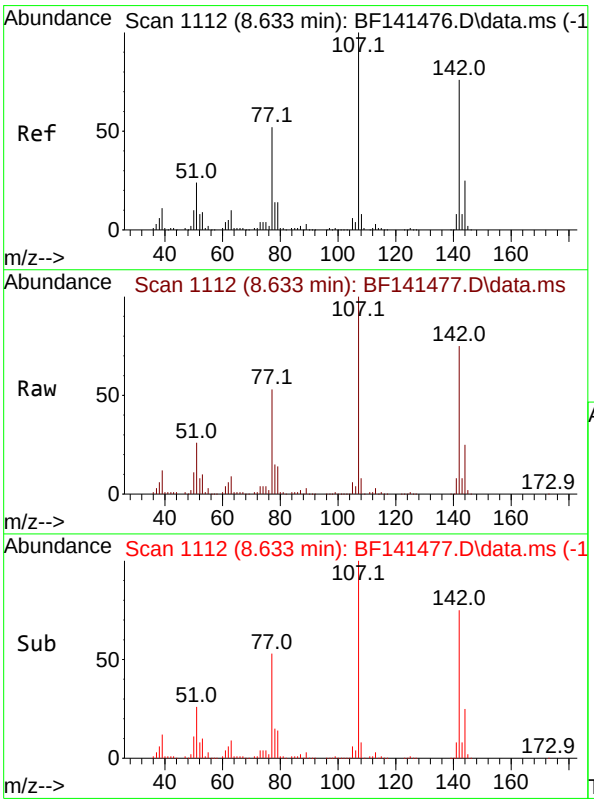
#35
Caprolactam
Concen: 49.180 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 76350

Ion	Ratio	Lower	Upper
113	100		
55	205.6	180.8	220.8
56	157.4	133.6	173.6

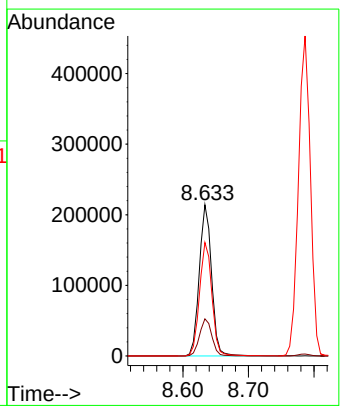


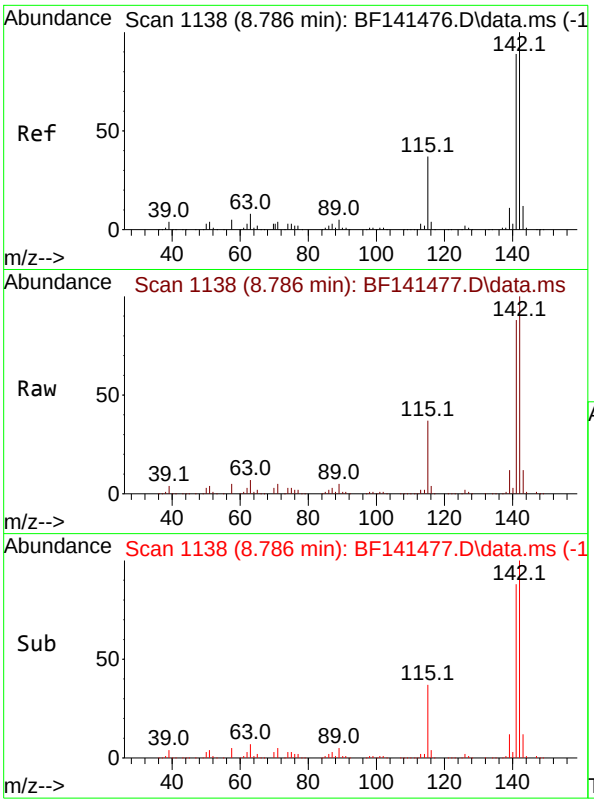


#36
4-Chloro-3-methylphenol
Concen: 49.736 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:107 Resp: 280911

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.7	29.5
142	75.0	60.8	91.2



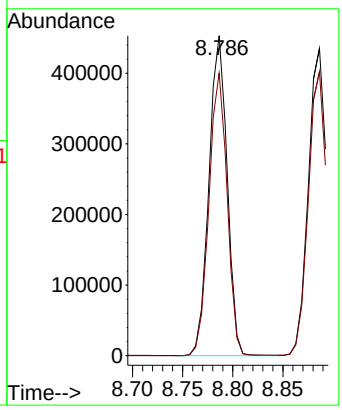


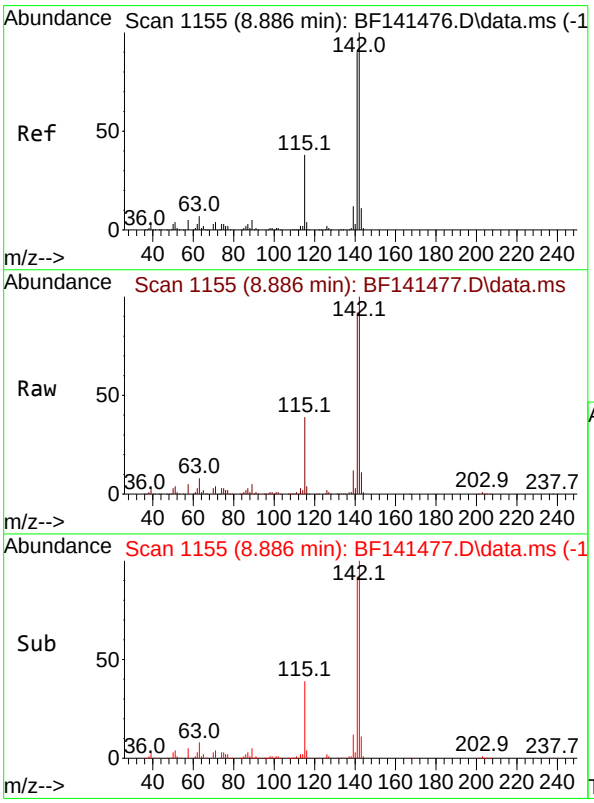
#37
2-Methylnaphthalene
Concen: 48.643 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 572244

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8

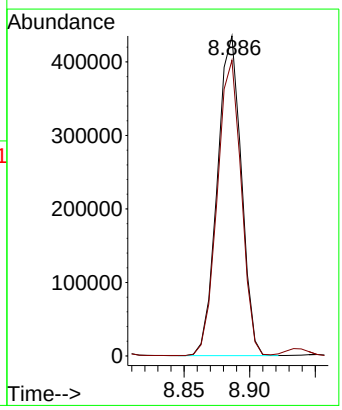


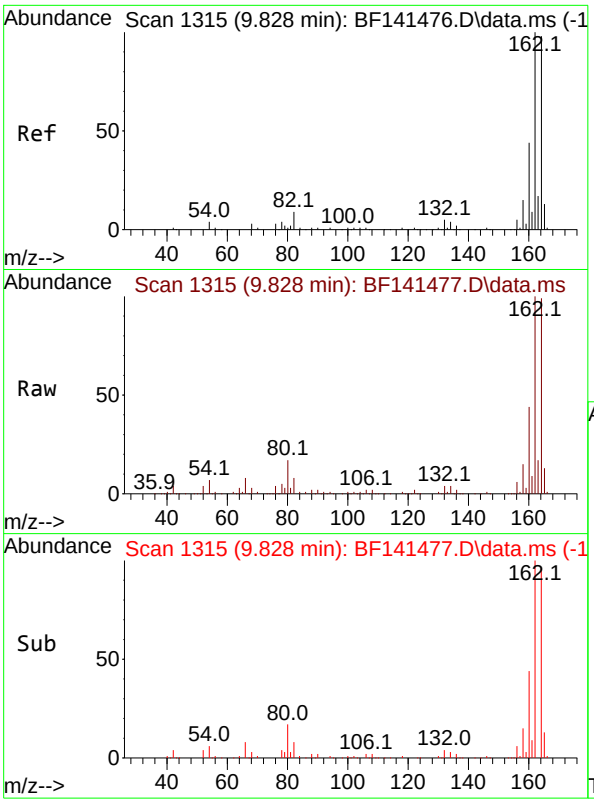


#38
1-Methylnaphthalene
Concen: 48.579 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:142 Resp: 553503

Ion	Ratio	Lower	Upper
142	100		
141	92.4	72.1	108.1



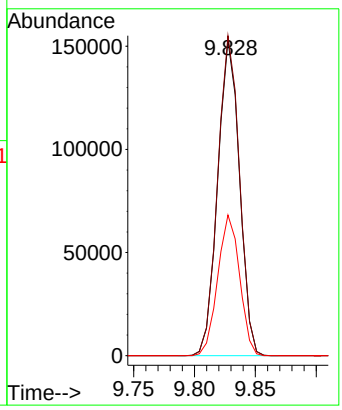


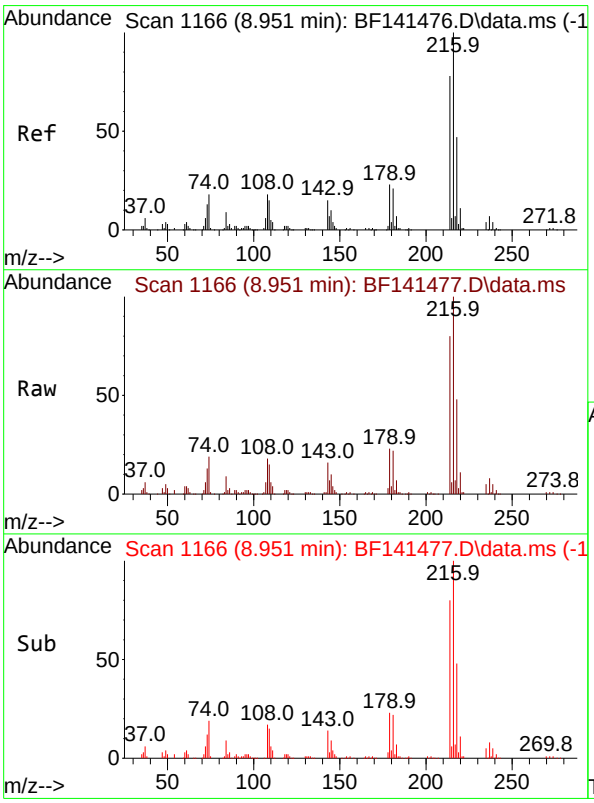
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 190523

Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.3	121.9
160	44.6	35.9	53.9

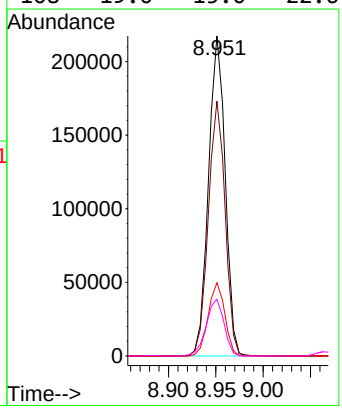


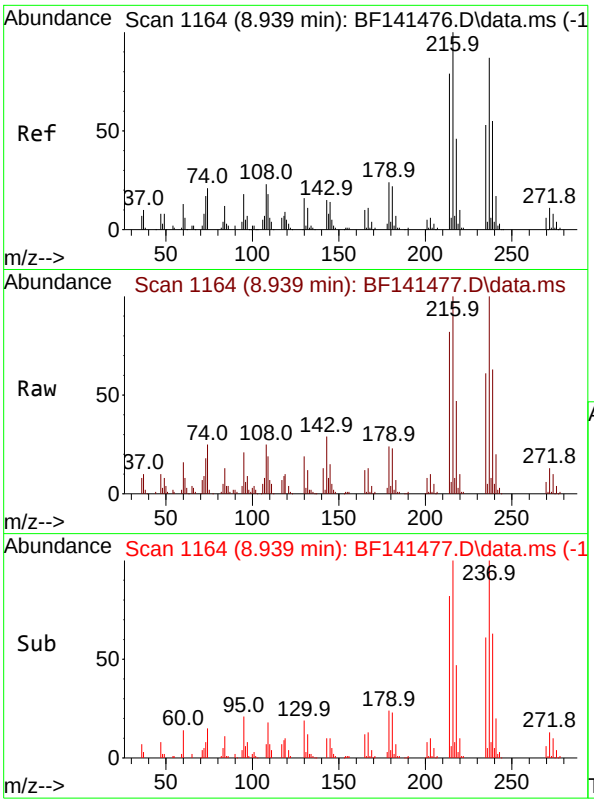


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.369 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:216 Resp: 266614

Ion	Ratio	Lower	Upper
216	100		
214	80.0	62.3	93.5
179	22.7	18.0	27.0
108	19.0	15.0	22.6



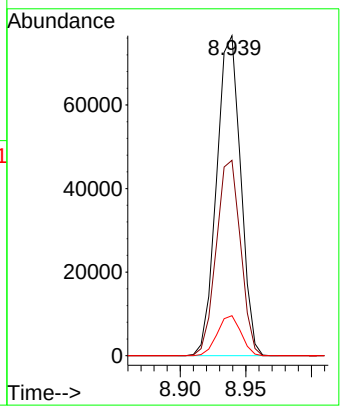


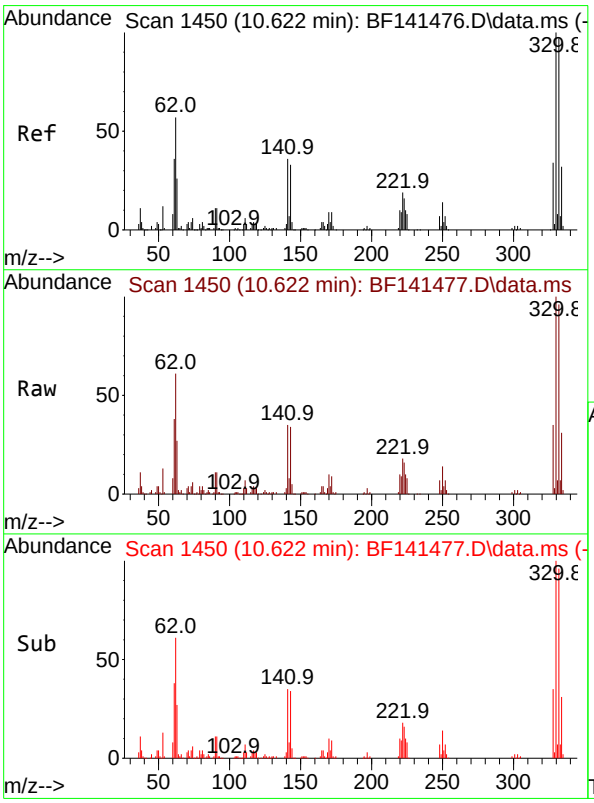
#41
Hexachlorocyclopentadiene
Concen: 53.276 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 97674

Ion	Ratio	Lower	Upper
237	100		
235	61.1	41.4	81.4
272	12.5	0.0	32.4

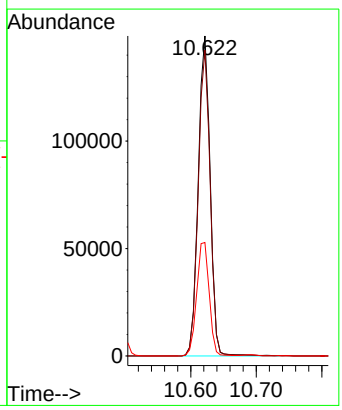


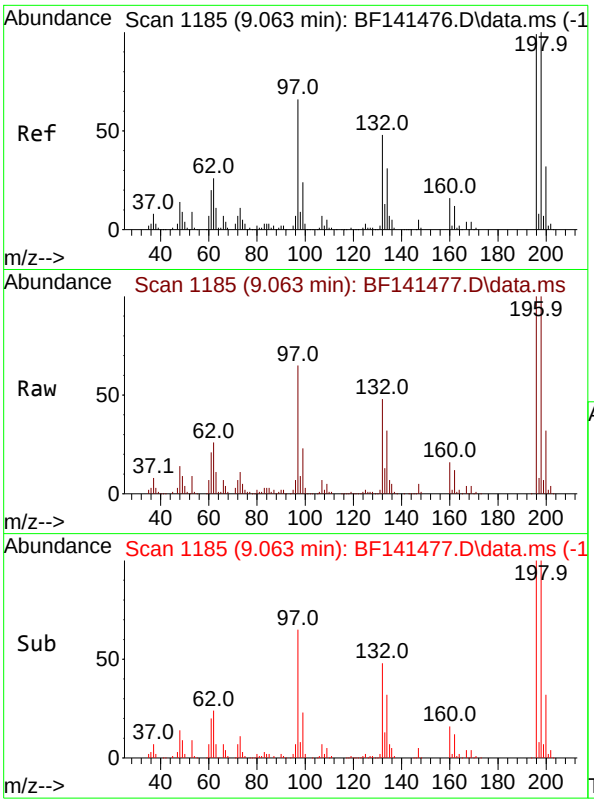


#42
2,4,6-Tribromophenol
Concen: 98.845 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:330 Resp: 189178

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.5	117.7
141	37.2	31.0	46.4



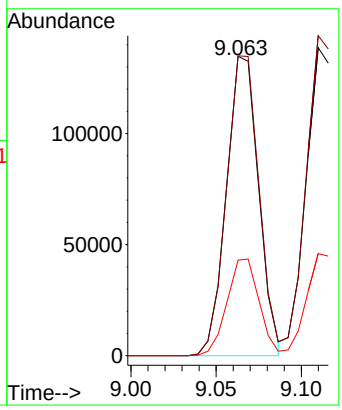


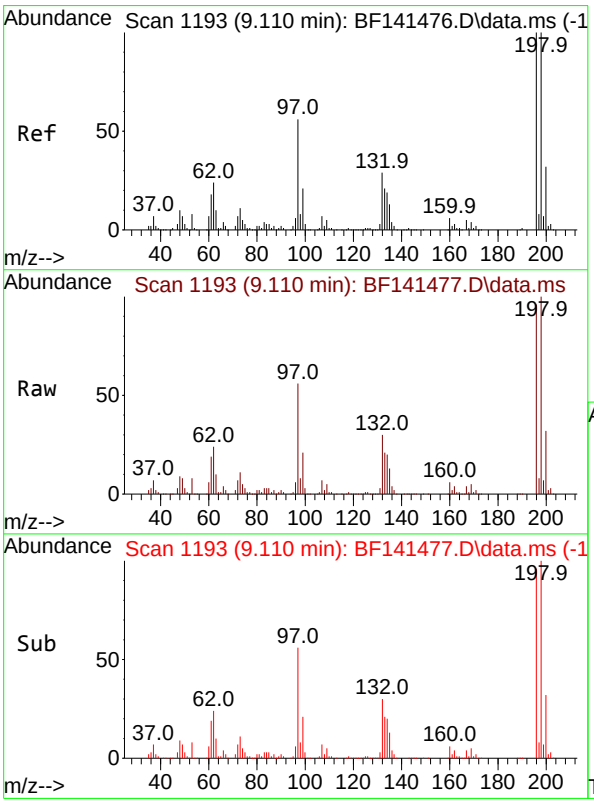
#43
2,4,6-Trichlorophenol
Concen: 49.825 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 177503

Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.6	121.0
200	31.9	25.5	38.3

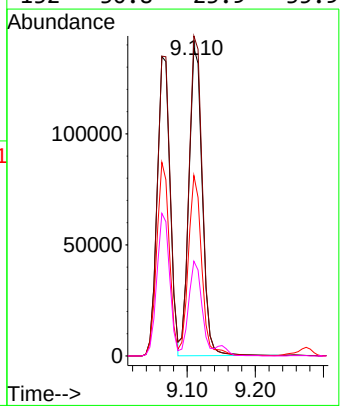


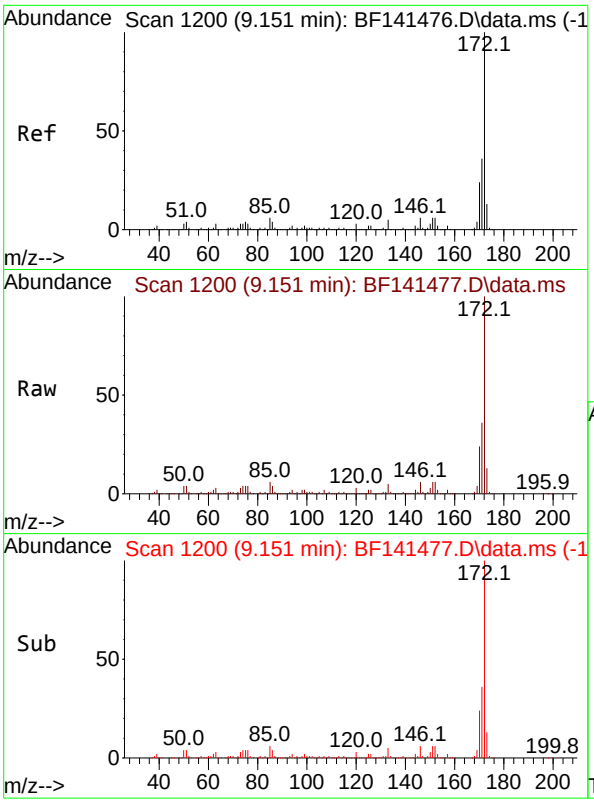


#44
2,4,5-Trichlorophenol
Concen: 48.667 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:196 Resp: 187902

Ion	Ratio	Lower	Upper
196	100		
198	103.9	79.8	119.8
97	58.6	44.8	67.2
132	30.8	23.9	35.9



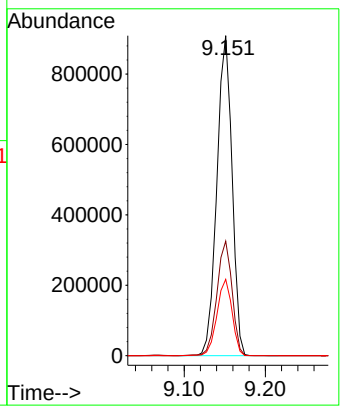


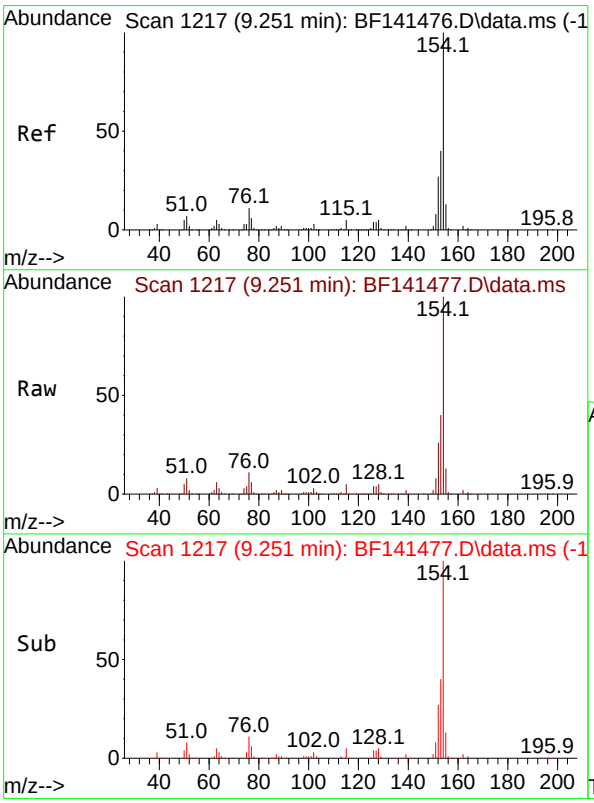
#45
2-Fluorobiphenyl
Concen: 95.605 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 1182292

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.7	43.1
170	23.8	18.9	28.3

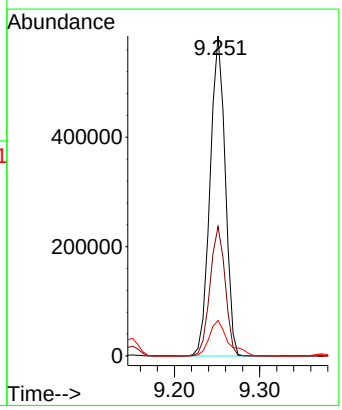


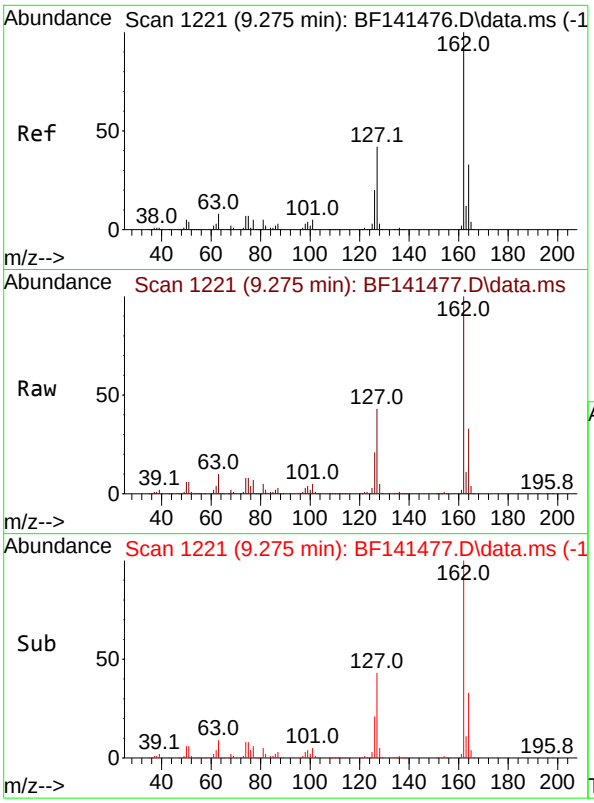


#46
1,1'-Biphenyl
Concen: 48.905 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:154 Resp: 722373

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.1	0.0	30.8



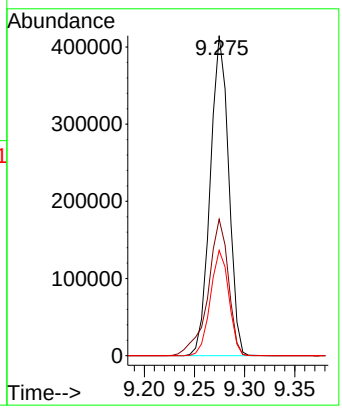


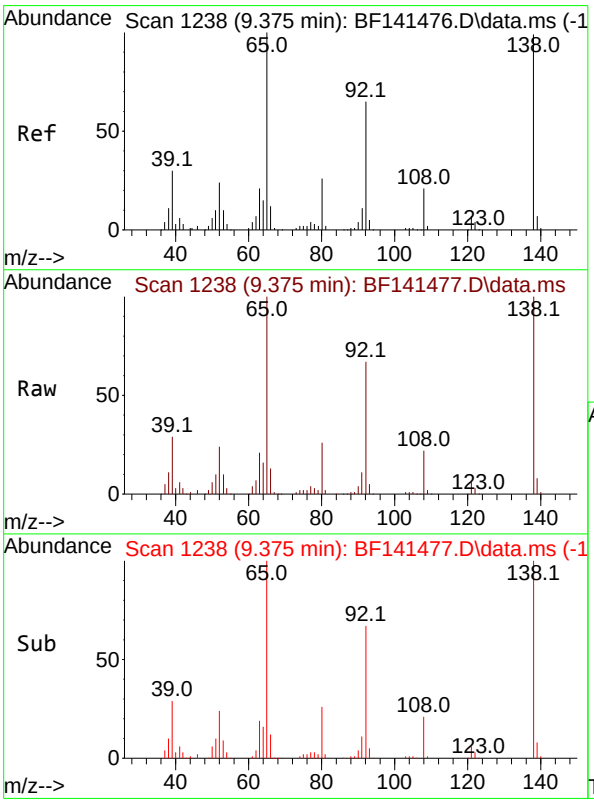
#47
2-Chloronaphthalene
Concen: 48.576 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 530577

Ion	Ratio	Lower	Upper
162	100		
127	42.6	34.1	51.1
164	32.9	26.3	39.5

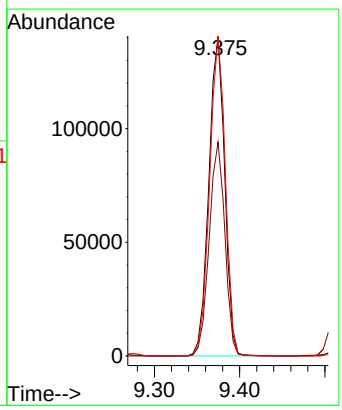


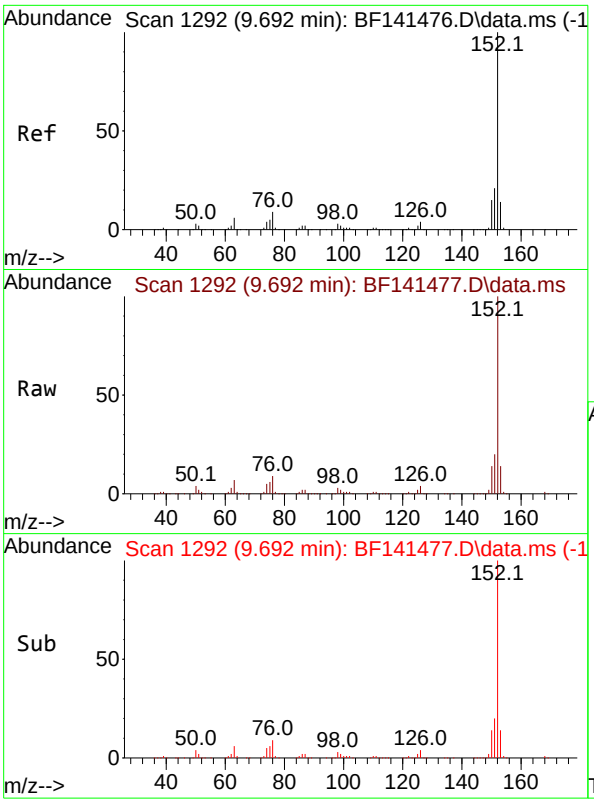


#48
2-Nitroaniline
Concen: 49.612 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion: 65 Resp: 181860

Ion	Ratio	Lower	Upper
65	100		
92	67.0	52.2	78.2
138	100.2	79.5	119.3



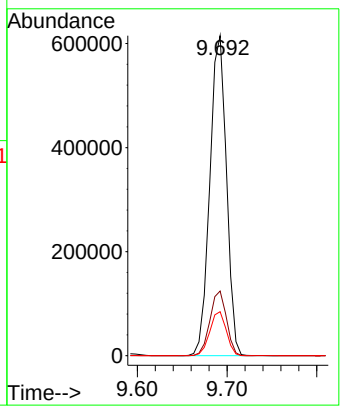


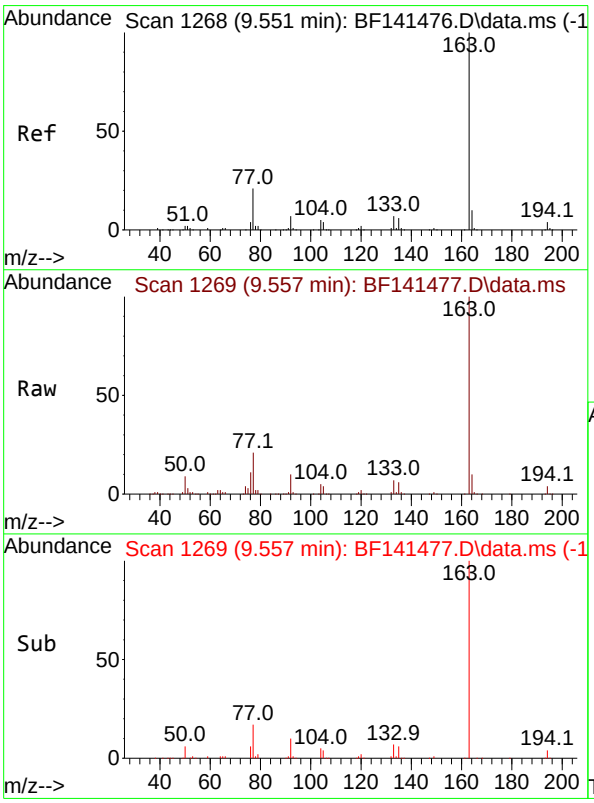
#49
Acenaphthylene
Concen: 48.672 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 790730

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3

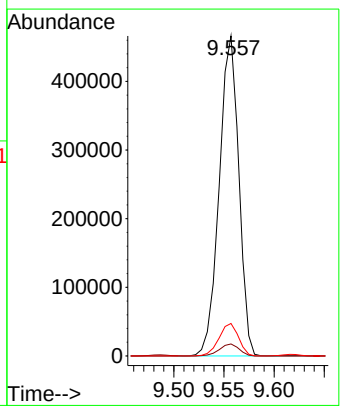


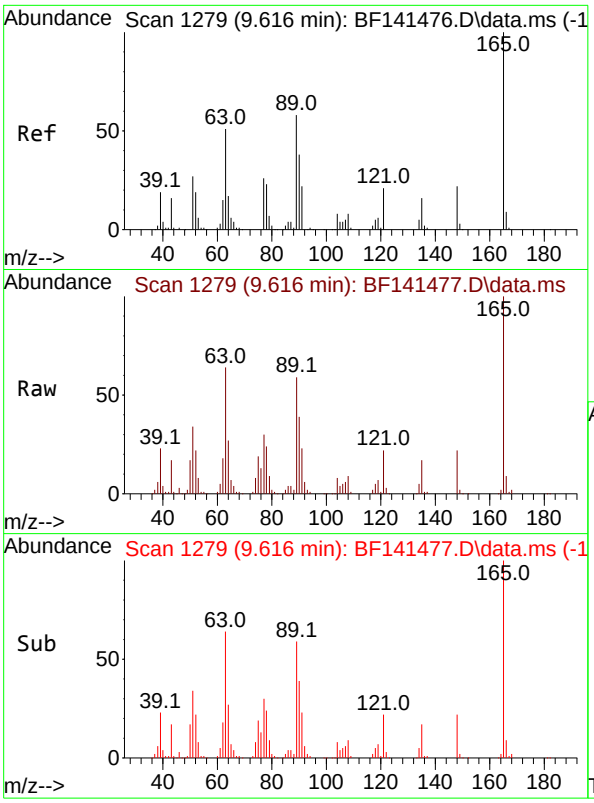


#50
Dimethylphthalate
Concen: 48.760 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:163 Resp: 630673

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.1	7.9	11.9



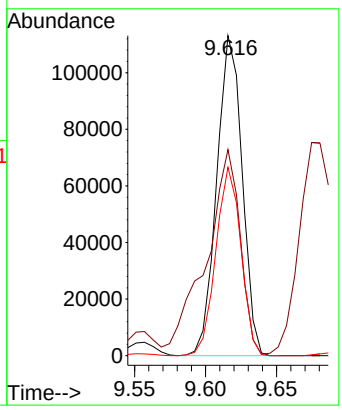


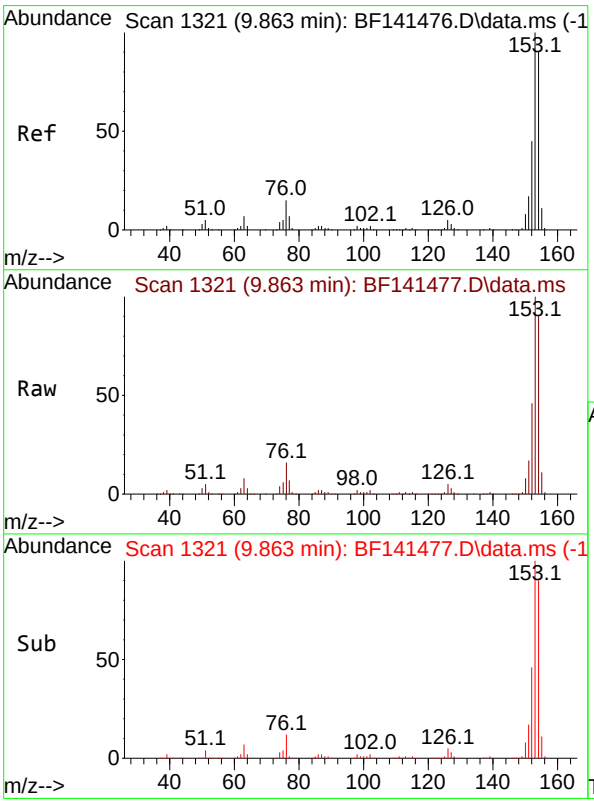
#51
2,6-Dinitrotoluene
Concen: 49.760 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 140697

Ion	Ratio	Lower	Upper
165	100		
63	64.4	49.4	74.0
89	58.9	46.5	69.7

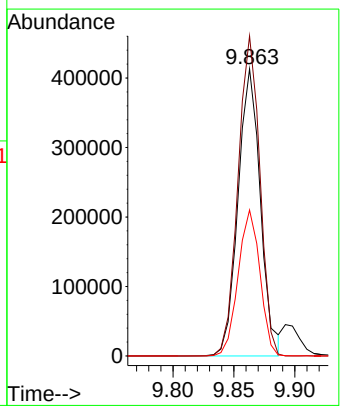


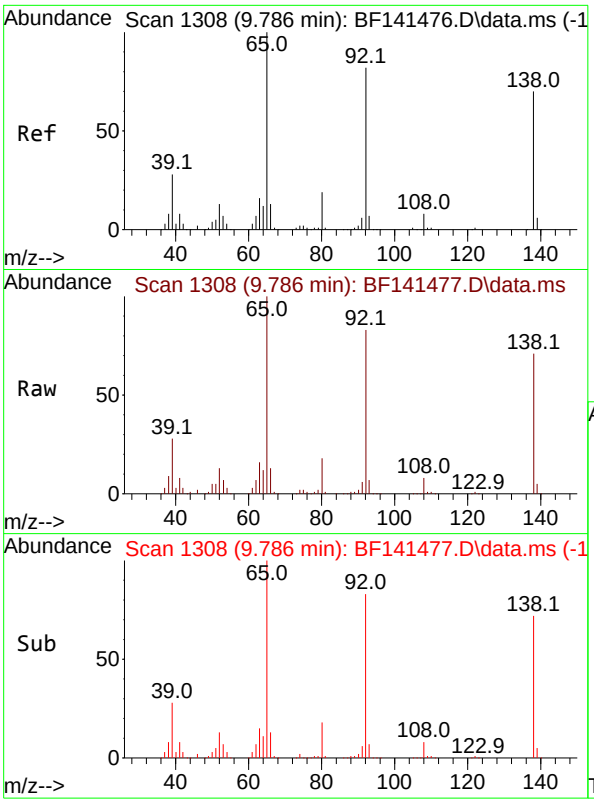


#52
Acenaphthene
Concen: 48.327 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:154 Resp: 527828

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.2	133.8
152	50.8	39.8	59.8



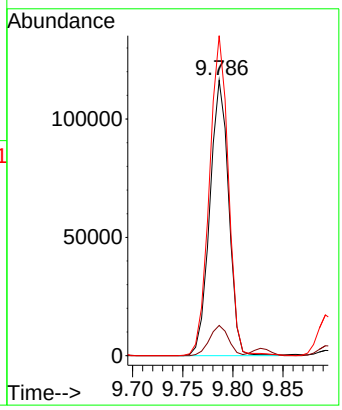


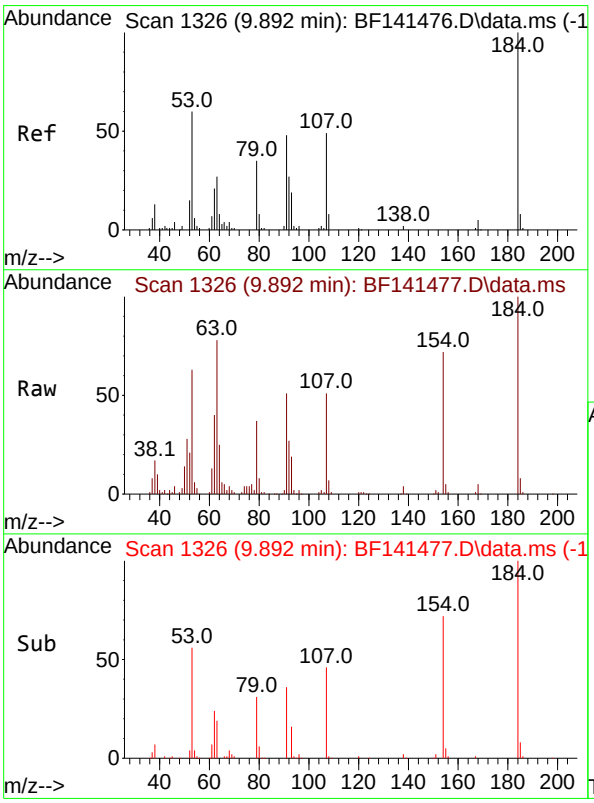
#53
3-Nitroaniline
Concen: 50.087 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 152426

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	116.2	93.7	140.5

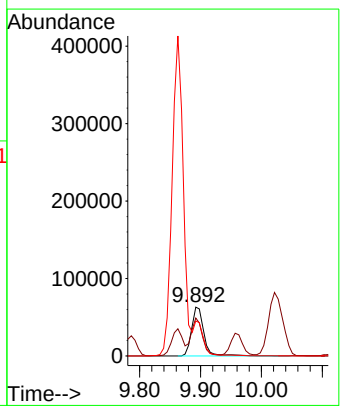


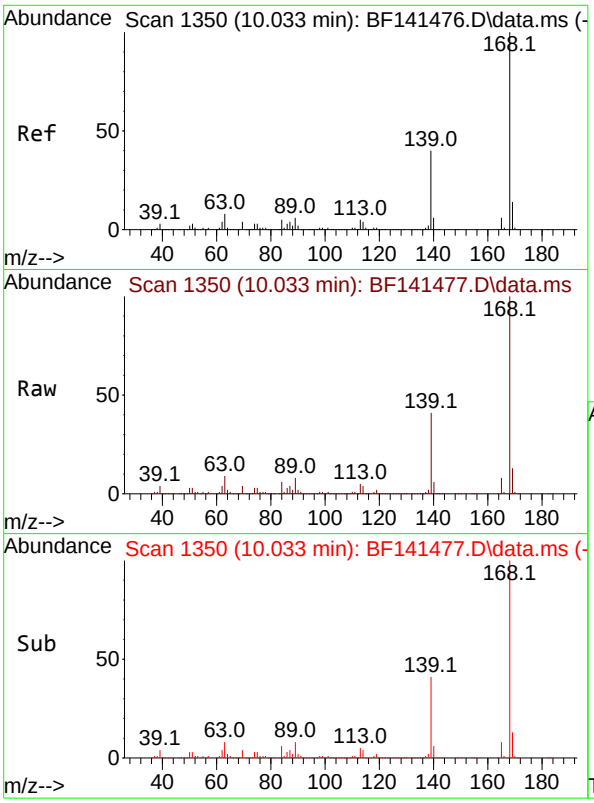


#54
2,4-Dinitrophenol
Concen: 52.339 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:184 Resp: 87953

Ion	Ratio	Lower	Upper
184	100		
63	77.9	61.0	91.6
154	71.8	59.9	89.9



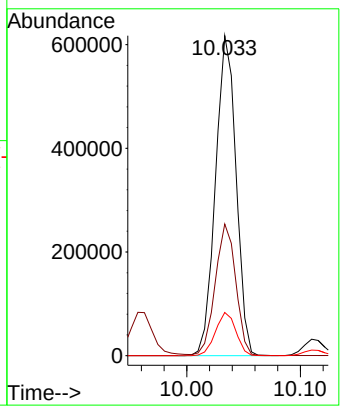


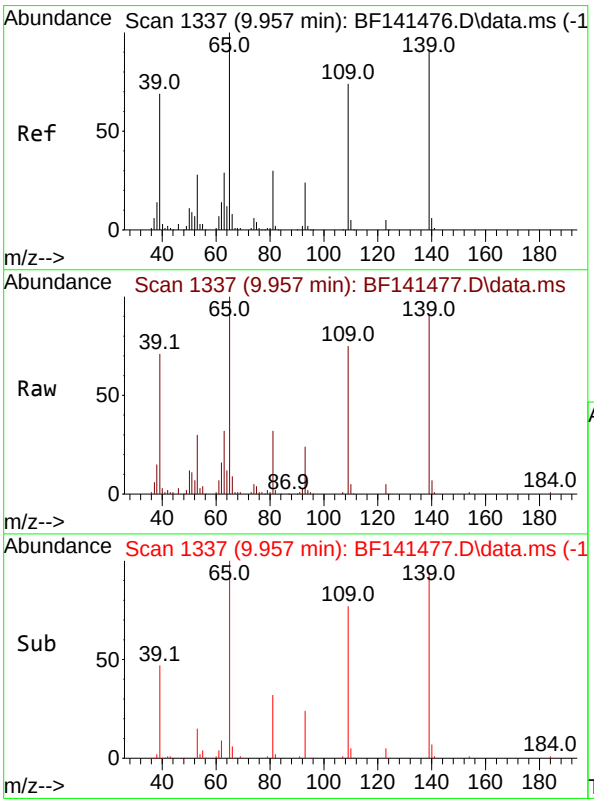
#55
Dibenzofuran
Concen: 48.523 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 777905

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.7	49.1
169	13.5	10.8	16.2

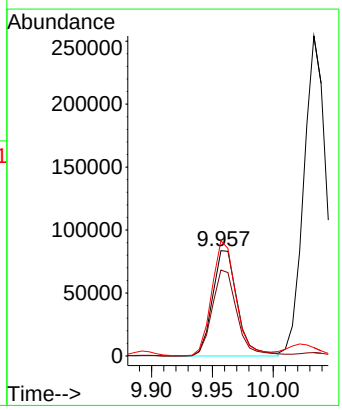


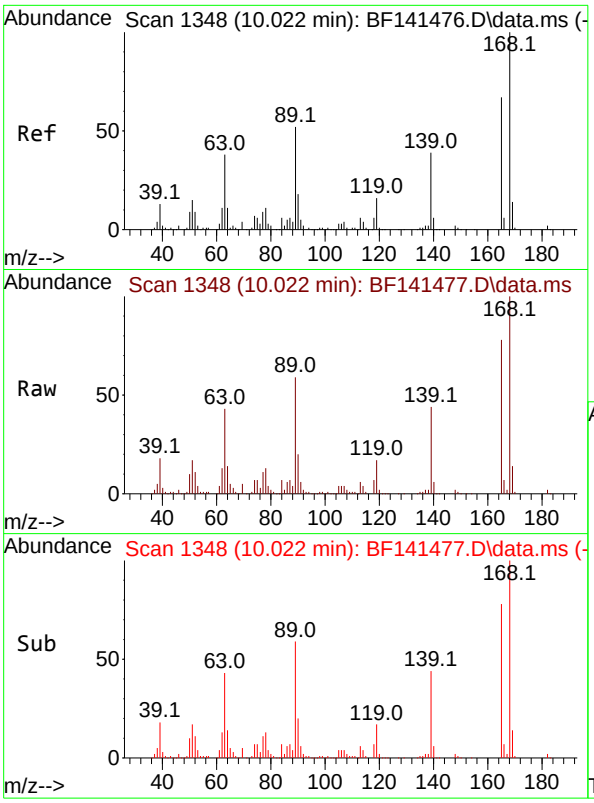


#56
4-Nitrophenol
Concen: 52.603 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:139 Resp: 118835

Ion	Ratio	Lower	Upper
139	100		
109	81.7	62.0	102.0
65	109.4	91.2	131.2



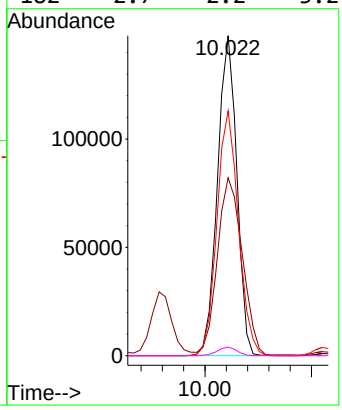


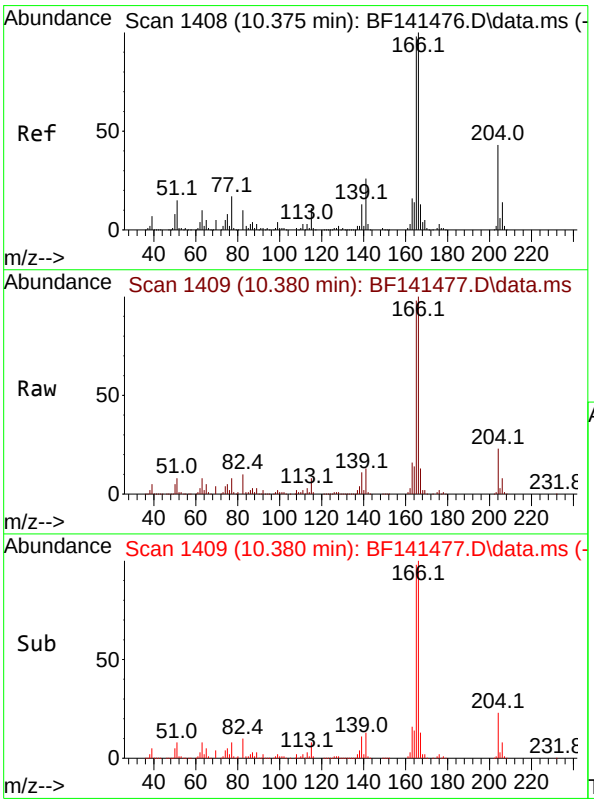
#57
2,4-Dinitrotoluene
Concen: 49.346 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 185741

Ion	Ratio	Lower	Upper
165	100		
63	55.6	46.4	69.6
89	76.5	61.8	92.6
182	2.7	2.2	3.2

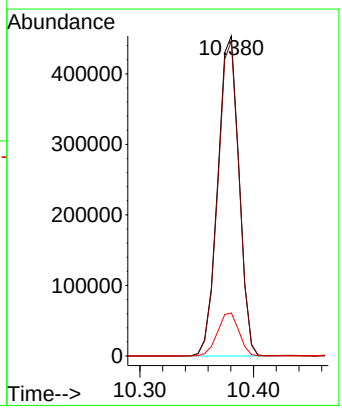


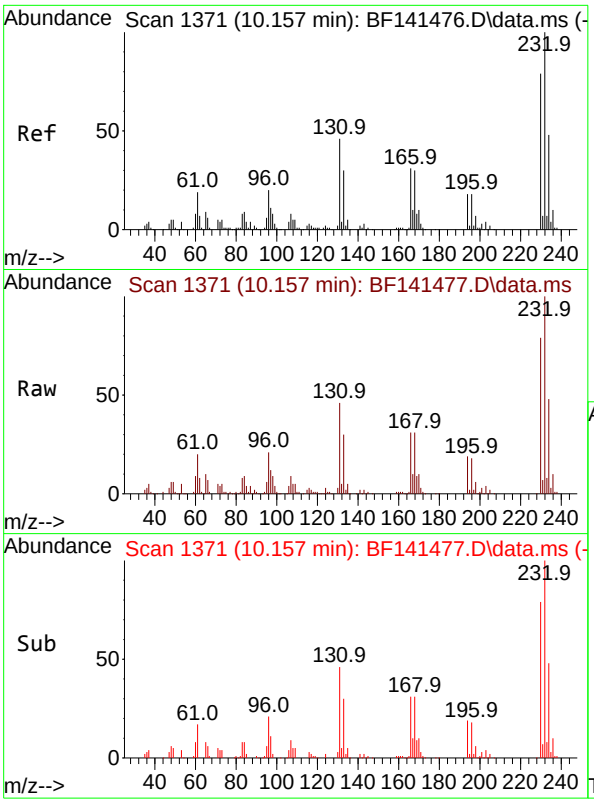


#58
Fluorene
Concen: 47.597 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:166 Resp: 590000

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.2	117.2
167	13.4	10.7	16.1



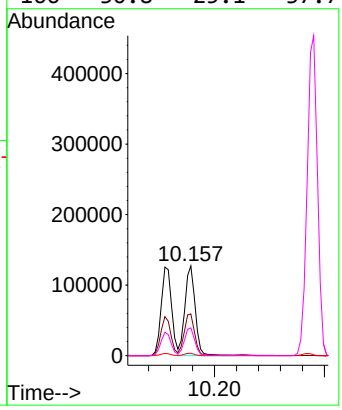


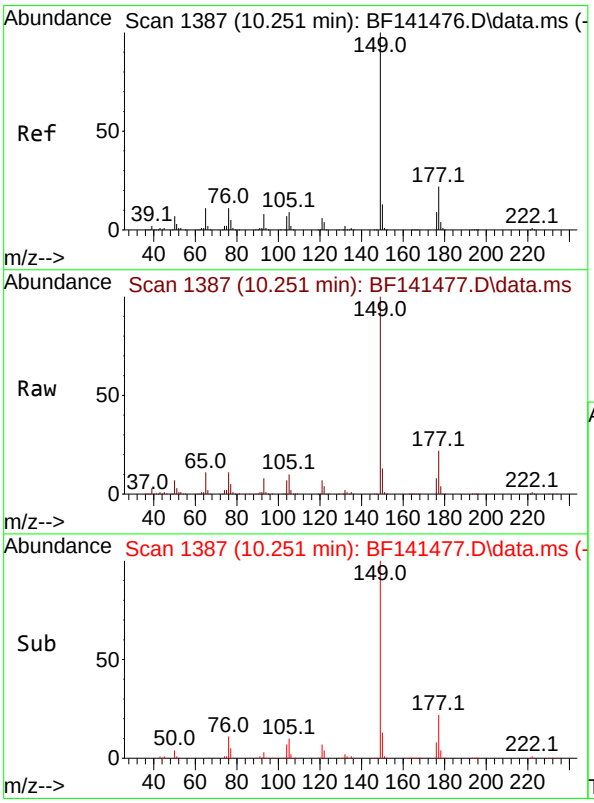
#59
2,3,4,6-Tetrachlorophenol
Concen: 49.807 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 165559

Ion	Ratio	Lower	Upper
232	100		
131	46.7	39.2	58.8
130	2.6	2.1	3.1
166	30.8	25.1	37.7

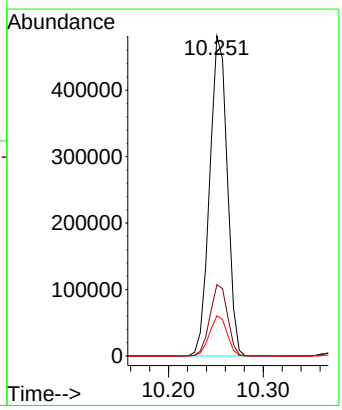


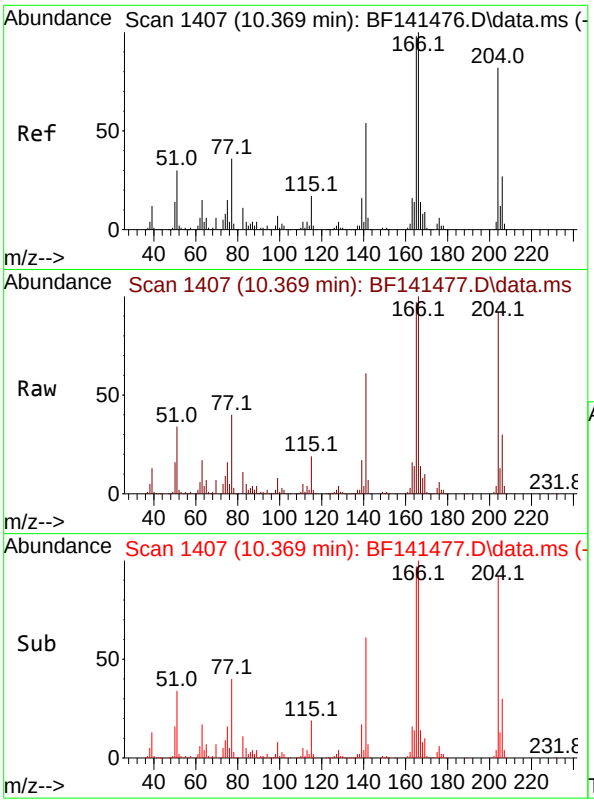


#60
Diethylphthalate
Concen: 48.647 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 619064

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.5	10.1	15.1



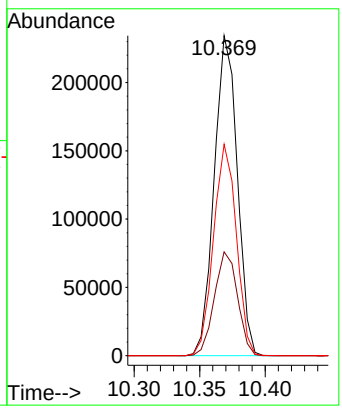


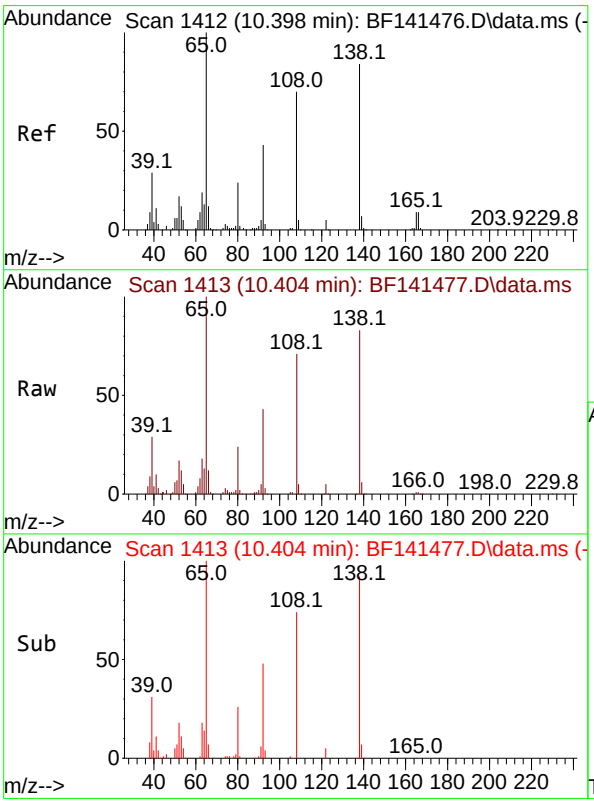
#61
4-Chlorophenyl-phenylether
Concen: 48.048 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 286530

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.6	40.0
141	66.0	51.9	77.9

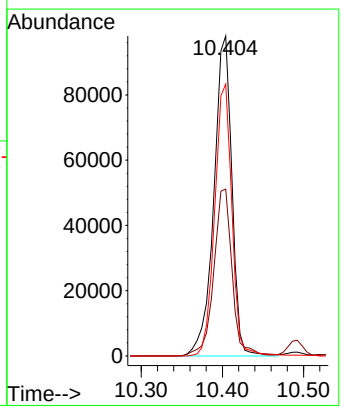


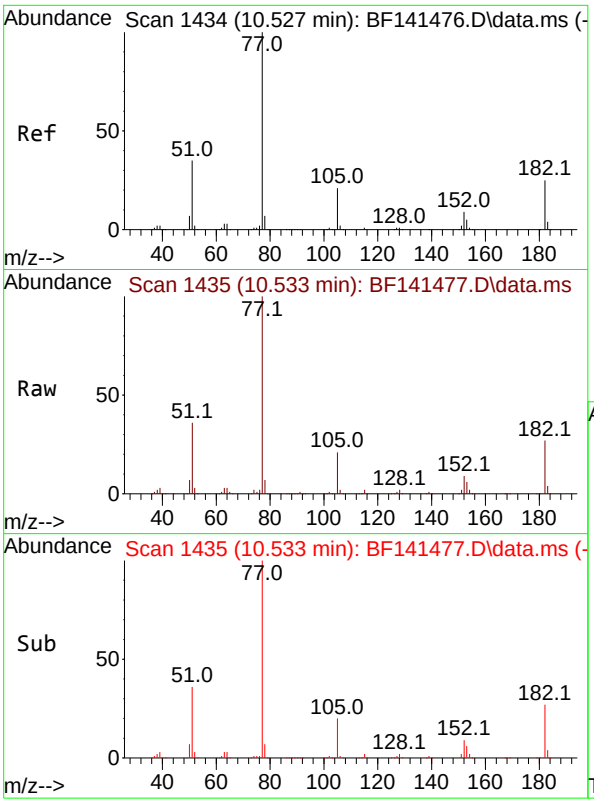


#62
4-Nitroaniline
Concen: 49.113 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:138 Resp: 151765

Ion	Ratio	Lower	Upper
138	100		
92	52.2	31.3	71.3
108	84.9	63.7	103.7



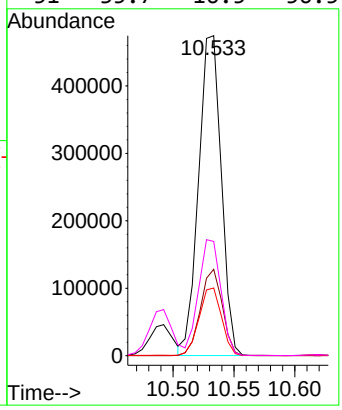


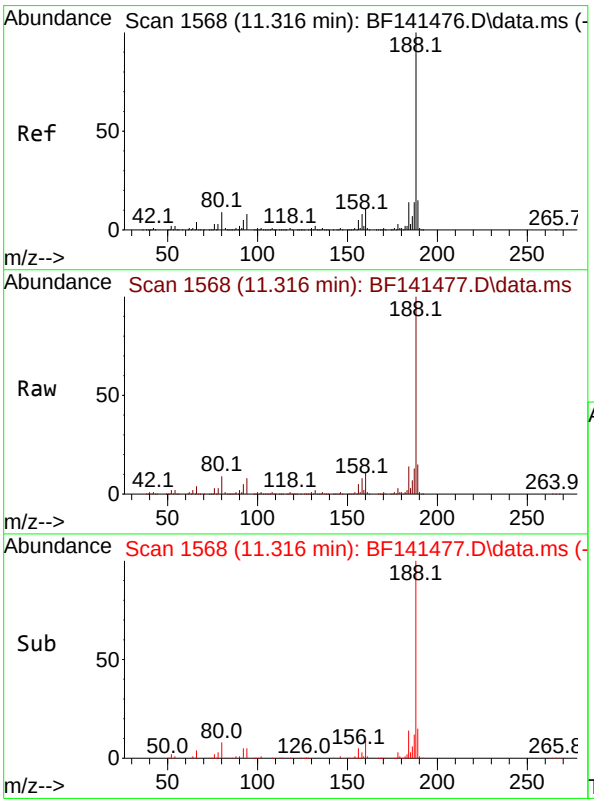
#63
Azobenzene
Concen: 48.742 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 616638

Ion	Ratio	Lower	Upper
77	100		
182	27.0	4.7	44.7
105	21.1	0.4	40.4
51	35.7	16.5	56.5

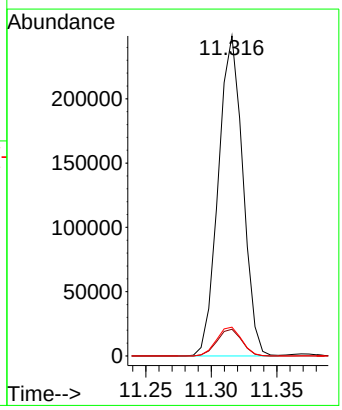


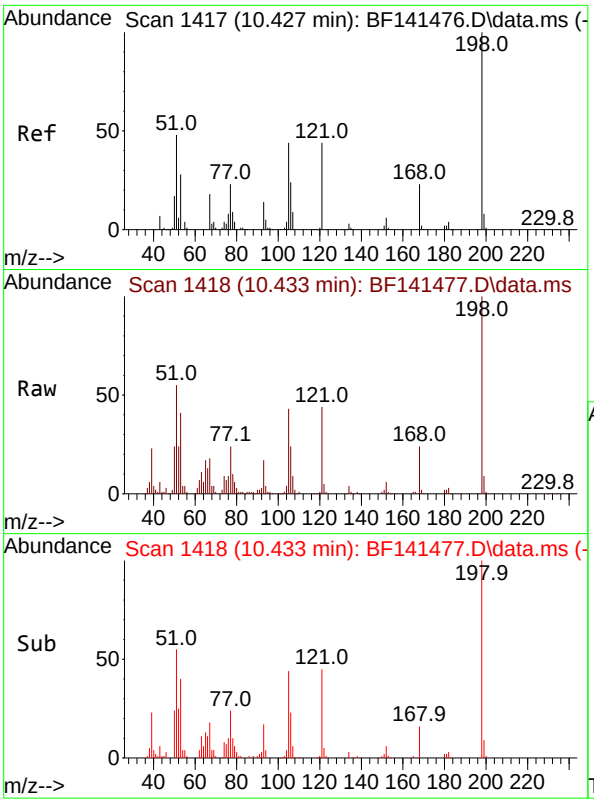


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:188 Resp: 323702

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.0	7.3	10.9



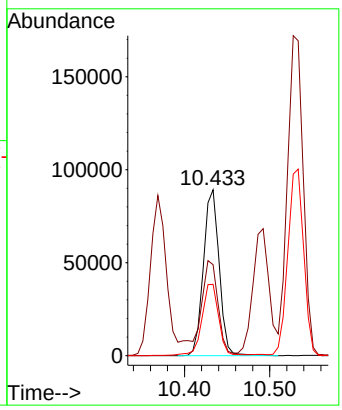


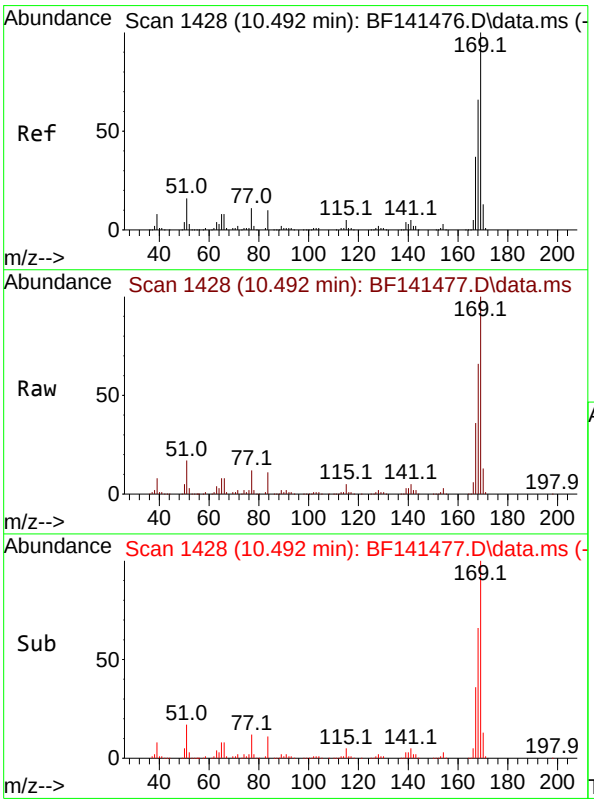
#65
4,6-Dinitro-2-methylphenol
Concen: 51.021 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 114725

Ion	Ratio	Lower	Upper
198	100		
51	54.9	37.4	77.4
105	43.0	25.2	65.2

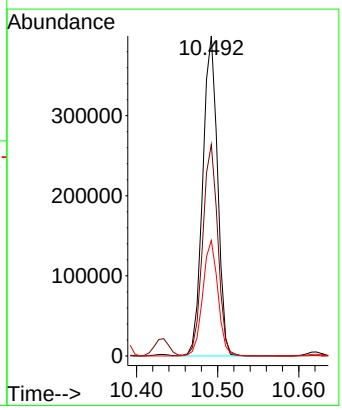


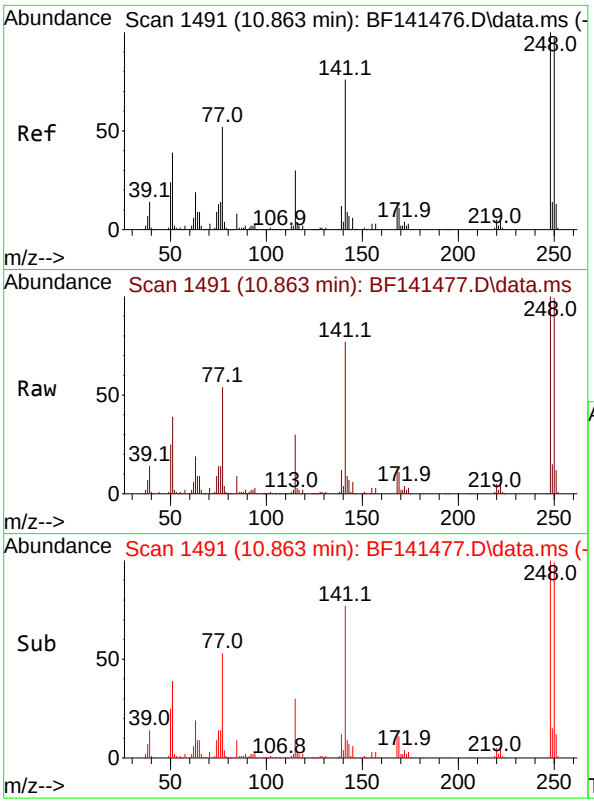


#66
n-Nitrosodiphenylamine
Concen: 48.810 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:169 Resp: 505770

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.3	79.9
167	36.1	29.4	44.2



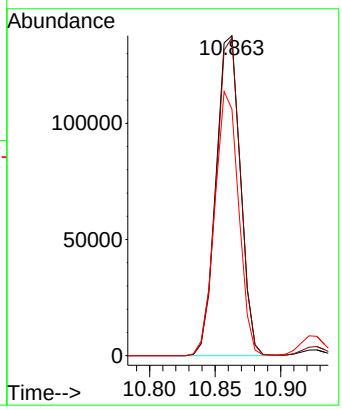


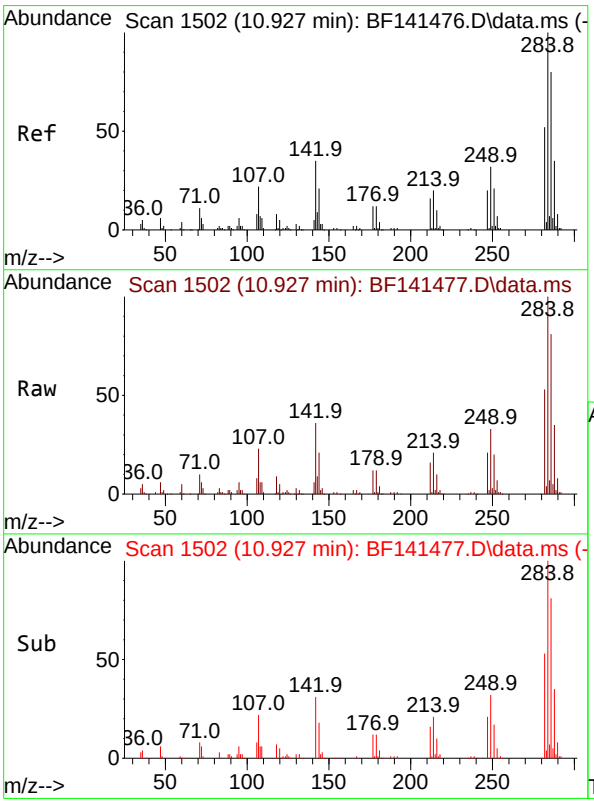
#67
4-Bromophenyl-phenylether
Concen: 49.135 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 177761

Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.8	116.6
141	77.0	60.6	90.8

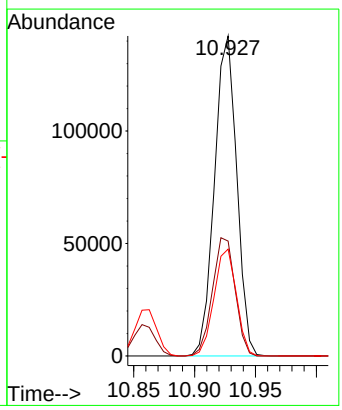


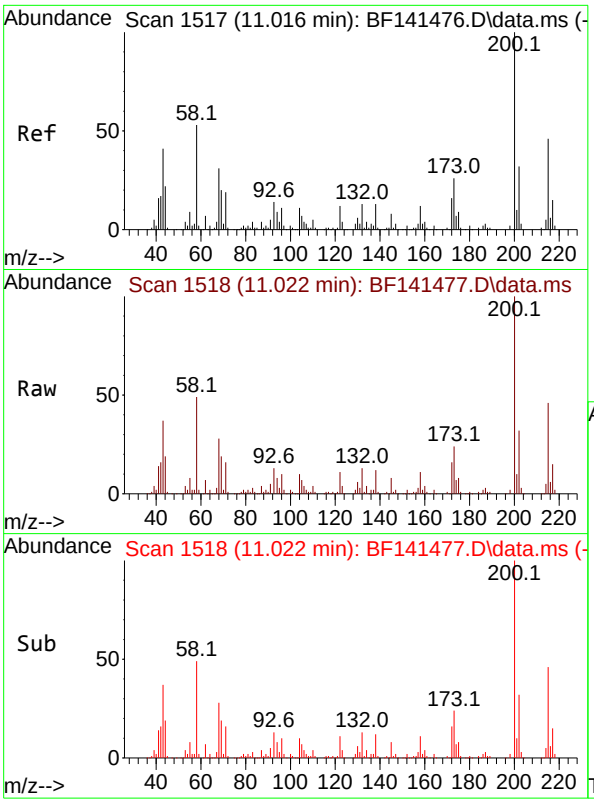


#68
Hexachlorobenzene
Concen: 48.567 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:284 Resp: 180930

Ion	Ratio	Lower	Upper
284	100		
142	35.9	28.0	42.0
249	33.4	25.8	38.8



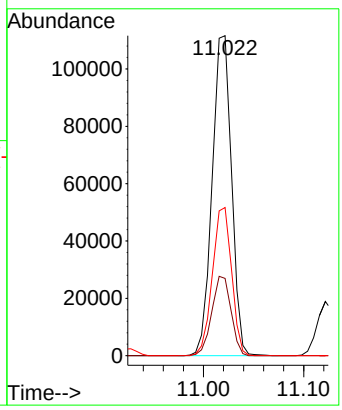


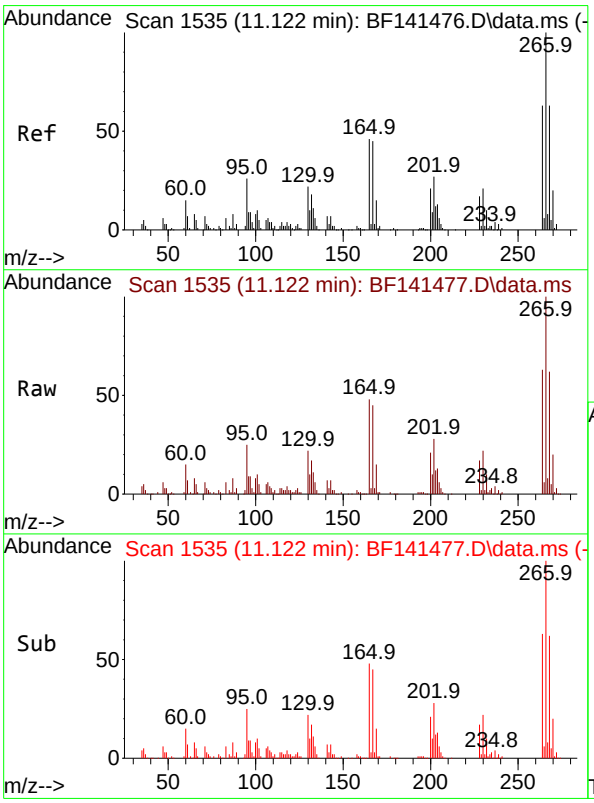
#69
Atrazine
Concen: 48.175 ng
RT: 11.022 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 149758

Ion	Ratio	Lower	Upper
200	100		
173	24.2	5.9	45.9
215	46.3	25.9	65.9

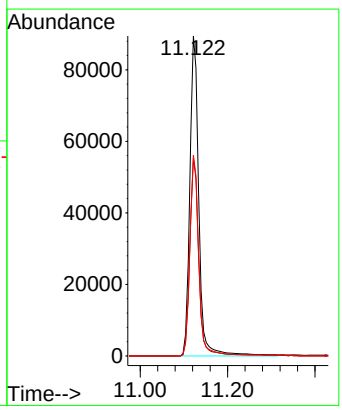


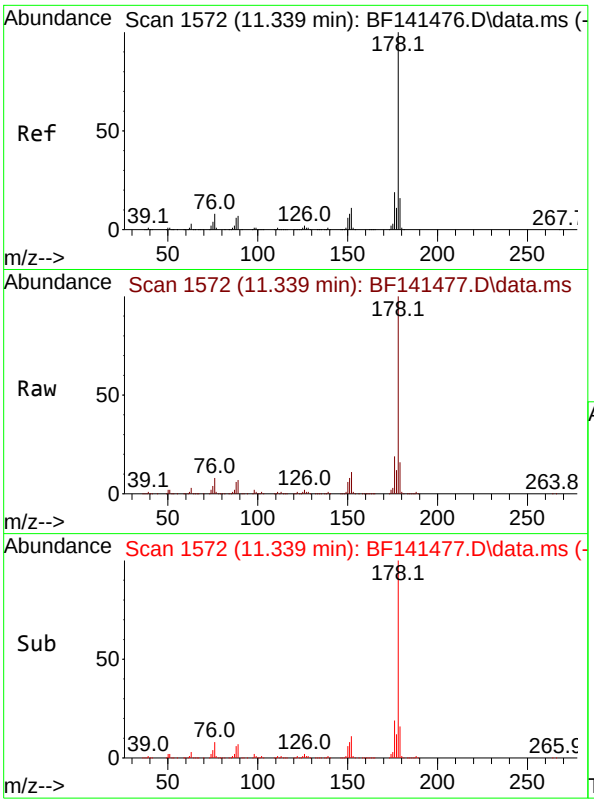


#70
Pentachlorophenol
Concen: 53.769 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:266 Resp: 128081

Ion	Ratio	Lower	Upper
266	100		
268	61.8	50.1	75.1
264	62.8	50.1	75.1



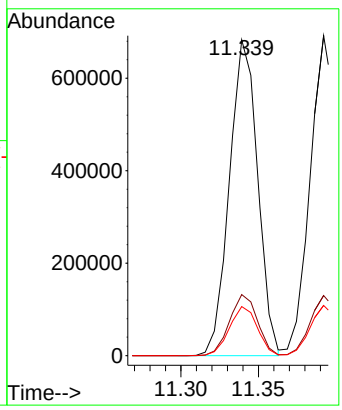


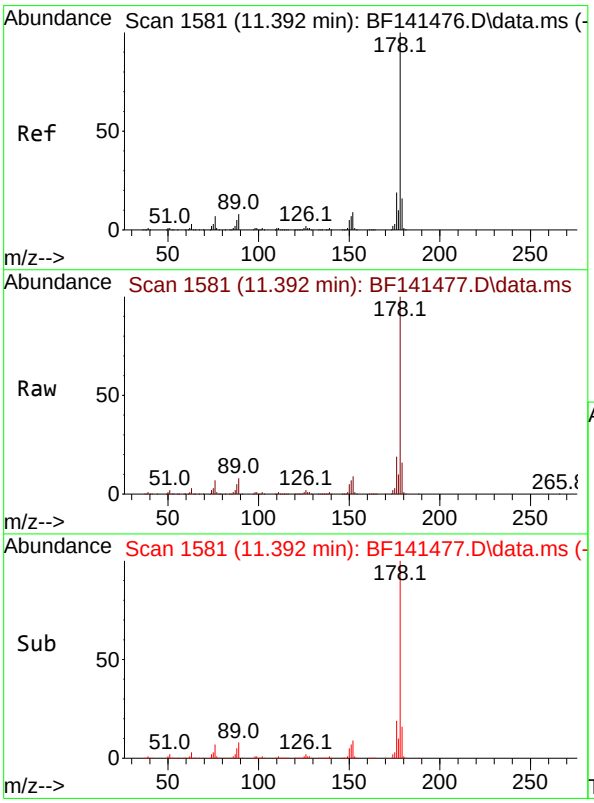
#71
Phenanthrene
Concen: 48.631 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 866517

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.6	12.4	18.6

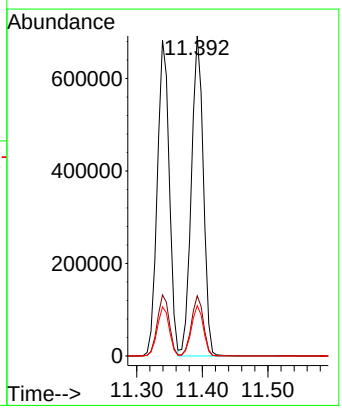


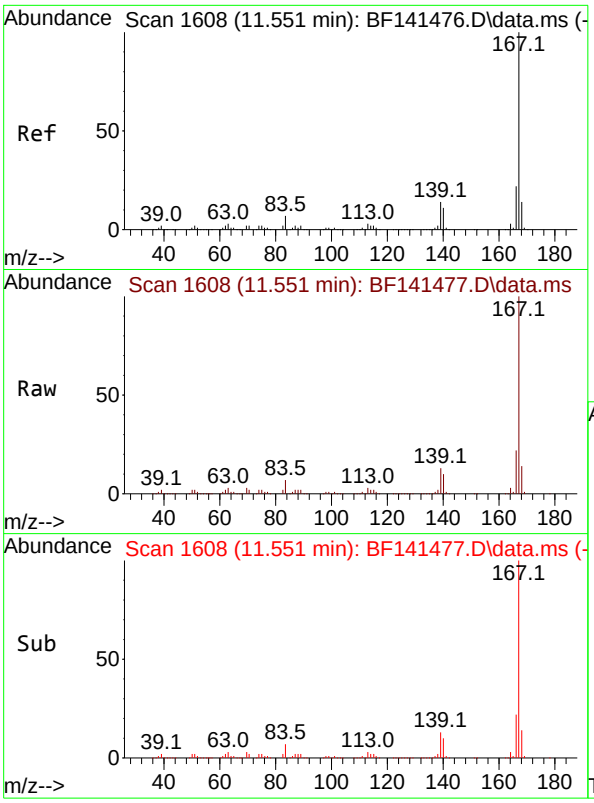


#72
Anthracene
Concen: 48.984 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:178 Resp: 877393

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.8	22.2
179	15.7	12.4	18.6



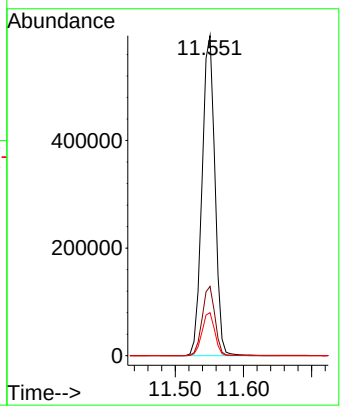


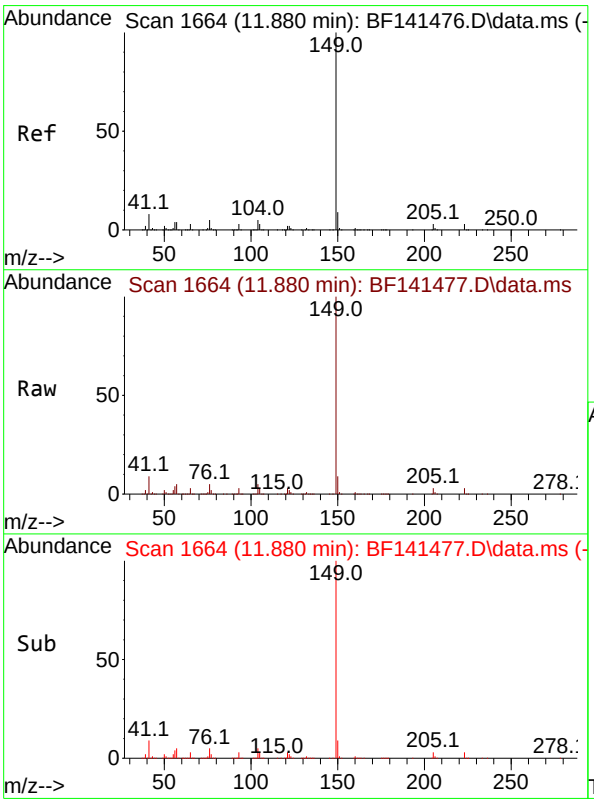
#73
Carbazole
Concen: 48.504 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 781733

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.5	10.9	16.3

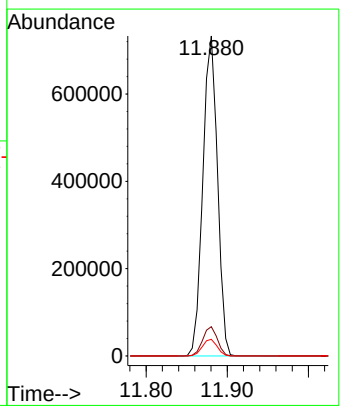


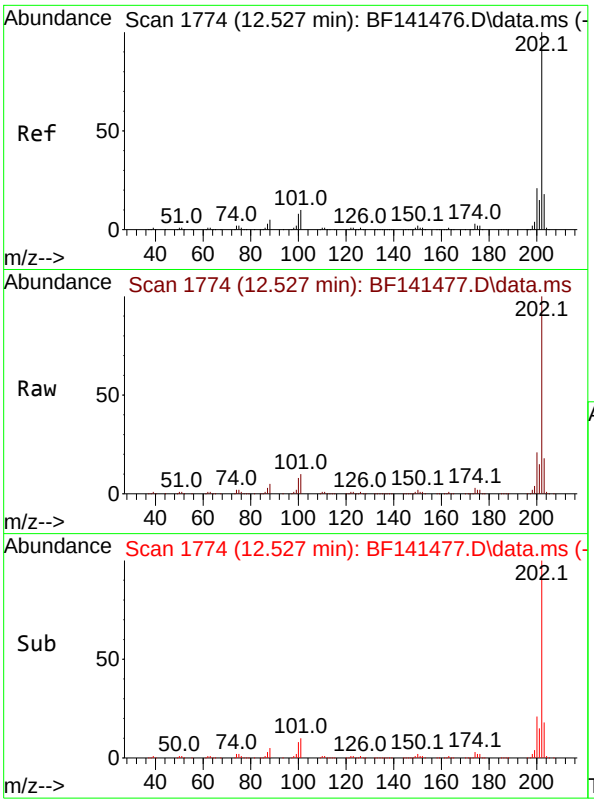


#74
Di-n-butylphthalate
Concen: 49.210 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 915782

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



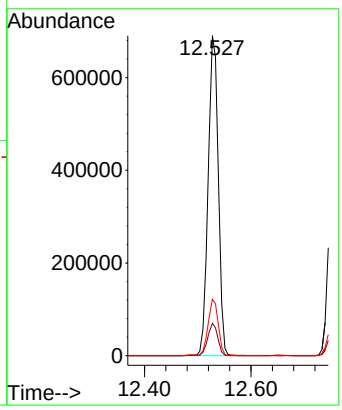


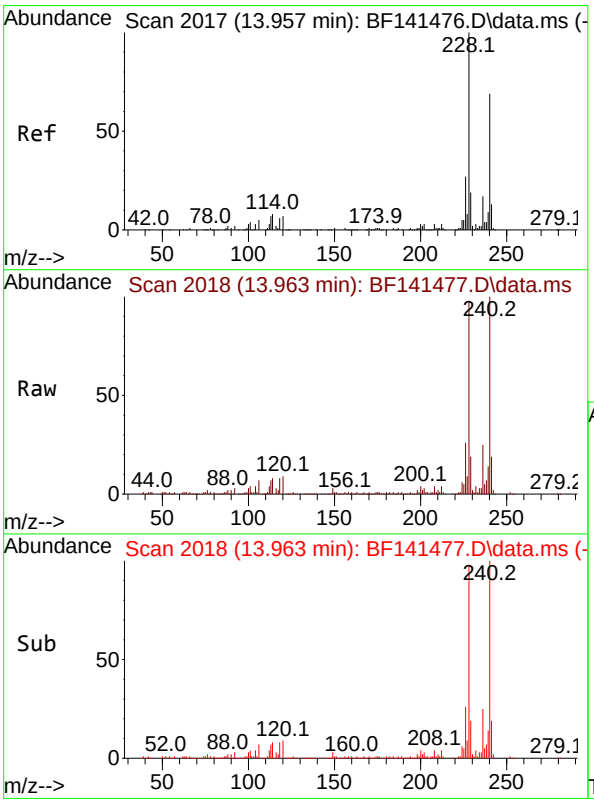
#75
Fluoranthene
Concen: 48.367 ng
RT: 12.527 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 913699

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.6	0.0	37.6

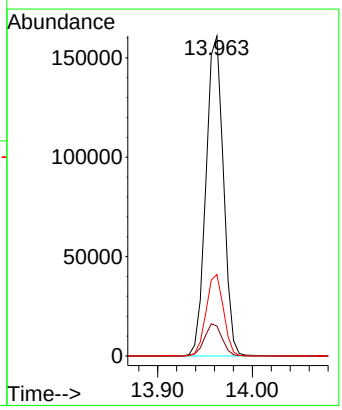


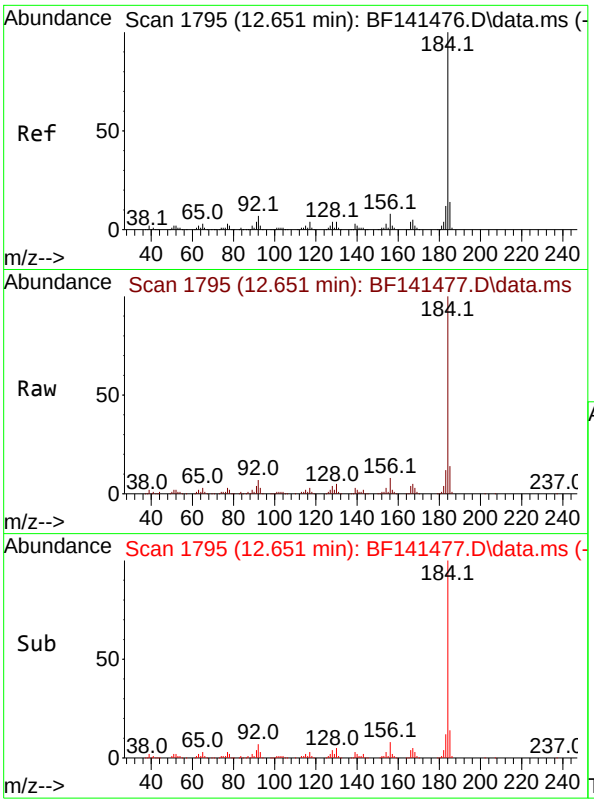


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:240 Resp: 205879

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.0	12.0
236	25.4	19.8	29.8



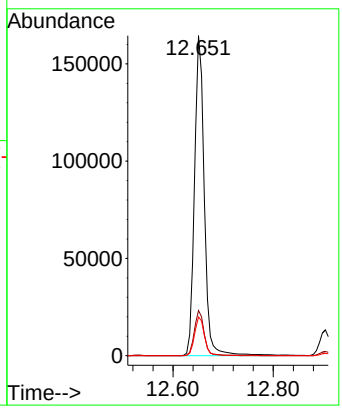


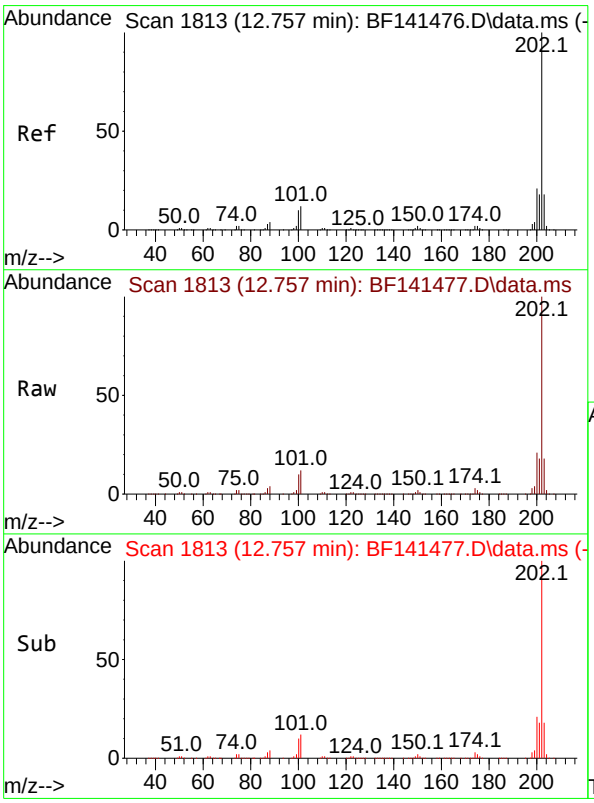
#77
Benzidine
Concen: 49.026 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 222606

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	12.1	9.3	13.9

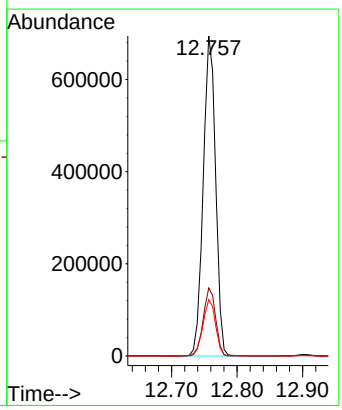


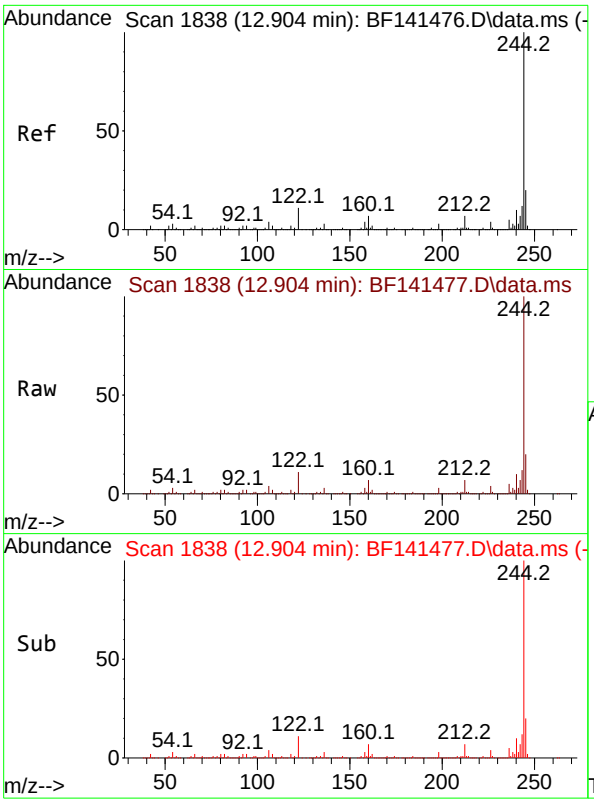


#78
Pyrene
Concen: 52.106 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:202 Resp: 913198

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.6	14.3	21.5



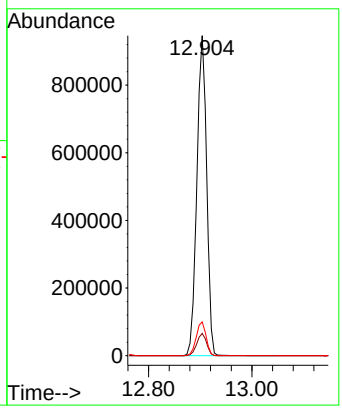


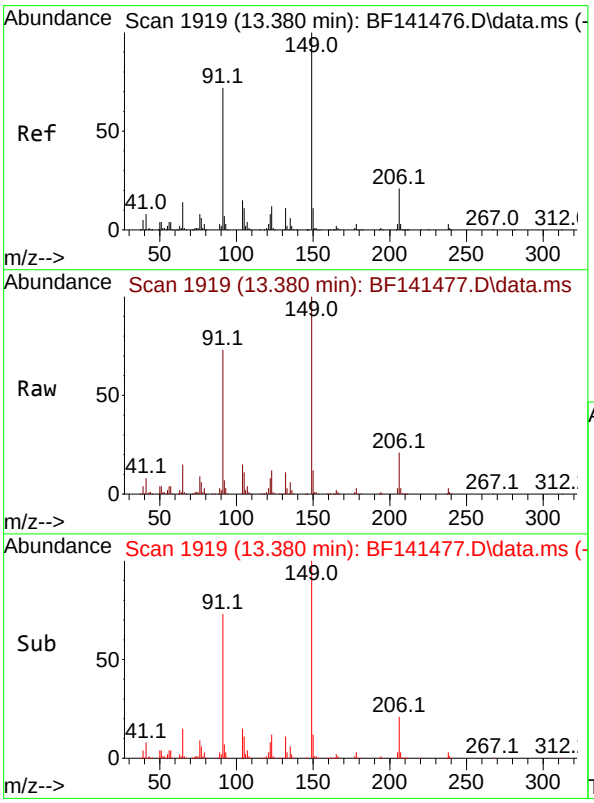
#79
Terphenyl-d14
Concen: 102.010 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 1244053

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.5	8.4	12.6

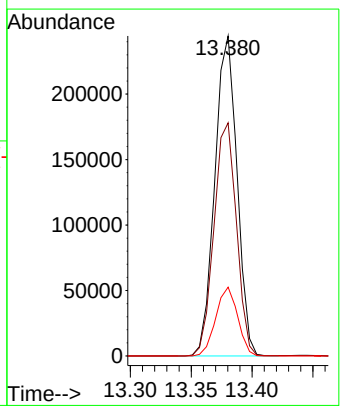


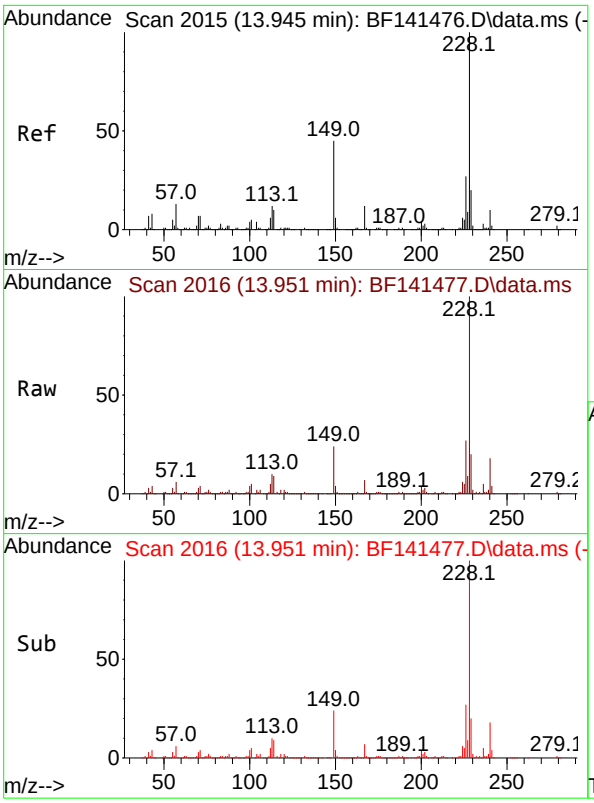


#80
Butylbenzylphthalate
Concen: 51.168 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 310612

Ion	Ratio	Lower	Upper
149	100		
91	72.8	57.8	86.8
206	21.5	16.7	25.1



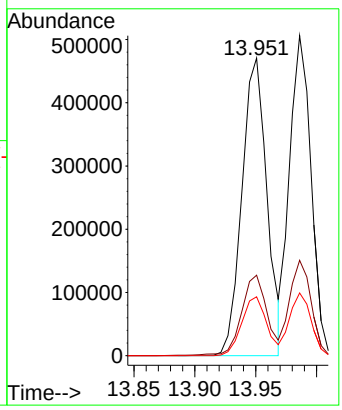


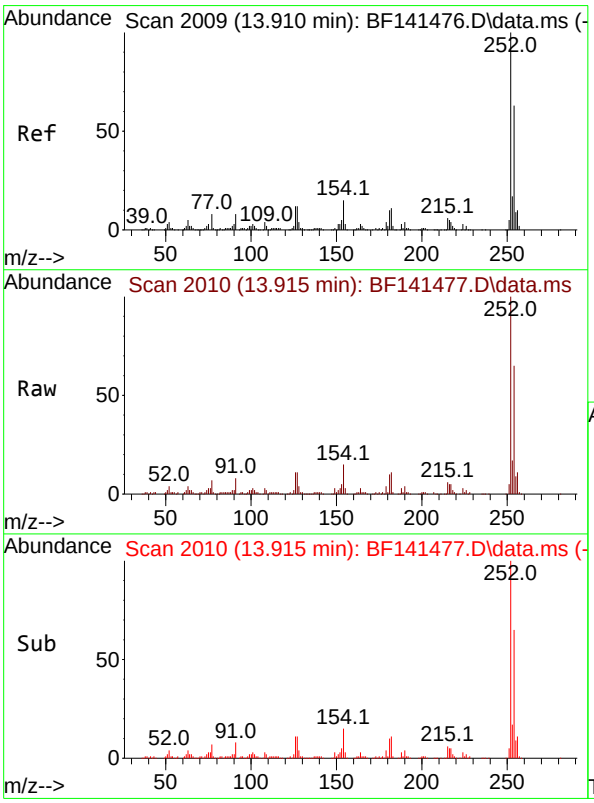
#81
Benzo(a)anthracene
Concen: 49.234 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 673785

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.8	15.8	23.6

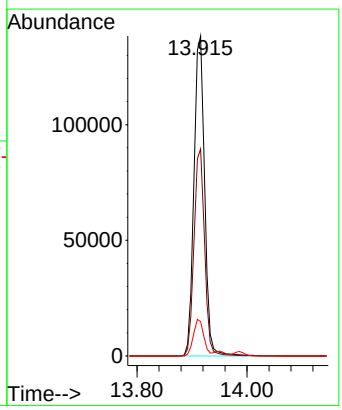


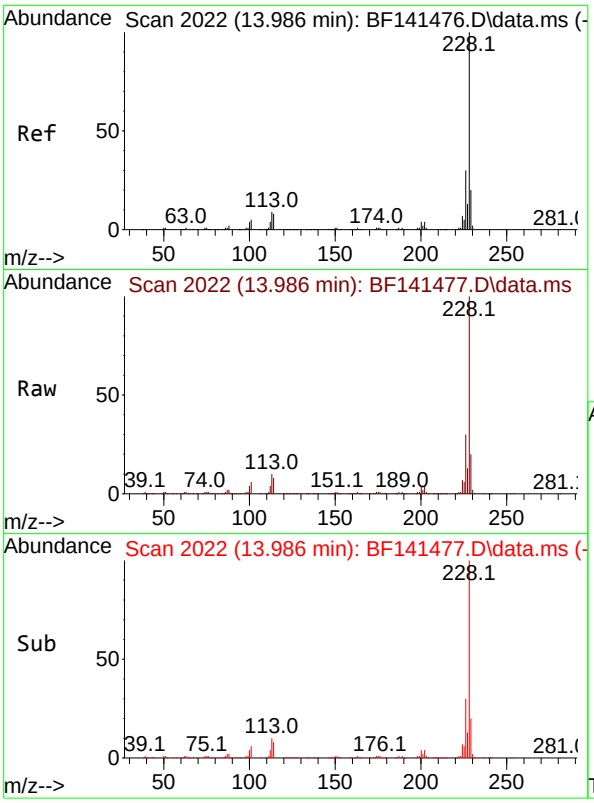


#82
3,3'-Dichlorobenzidine
Concen: 47.650 ng
RT: 13.915 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 186802

Ion	Ratio	Lower	Upper
252	100		
254	64.7	50.6	76.0
126	10.8	9.3	13.9



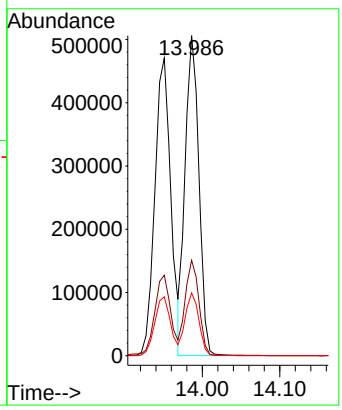


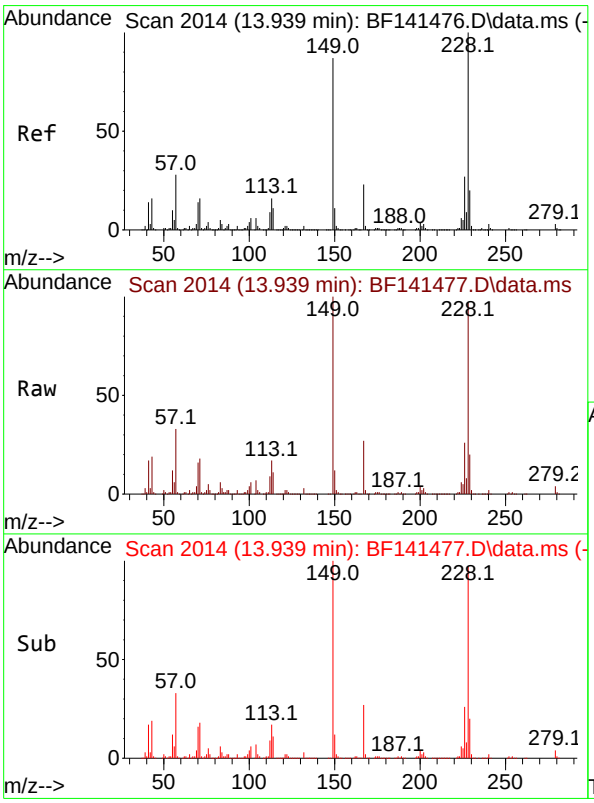
#83
Chrysene
Concen: 49.505 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 625572

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.6	15.7	23.5

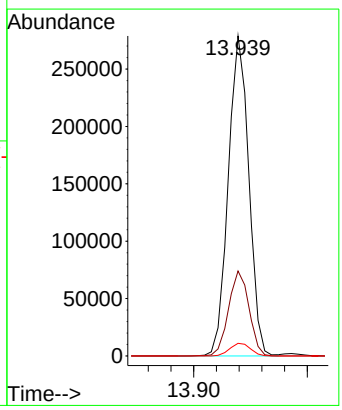


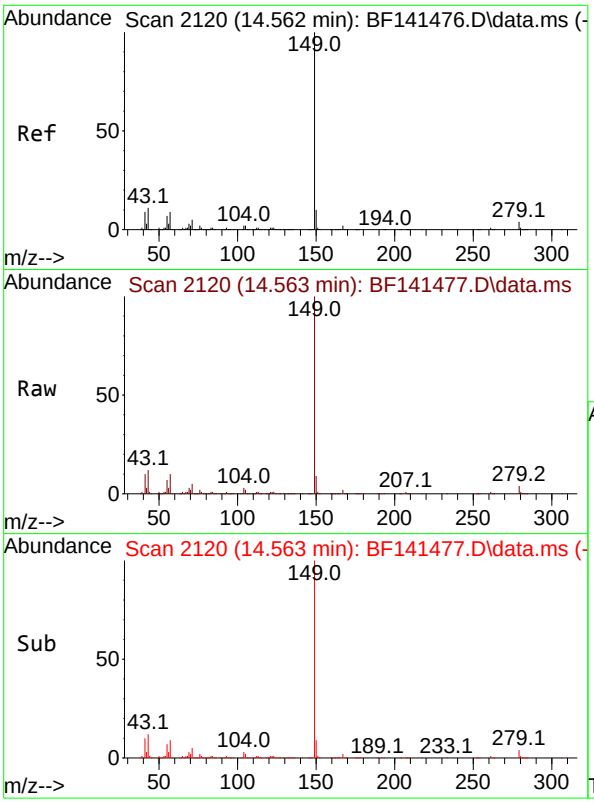


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.138 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:149 Resp: 350121

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	4.0	3.1	4.7



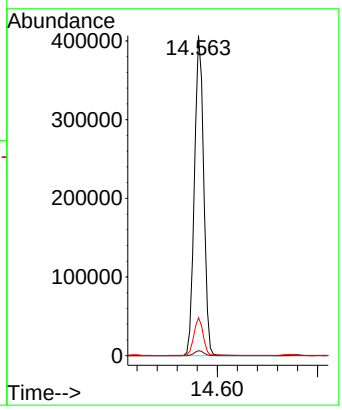


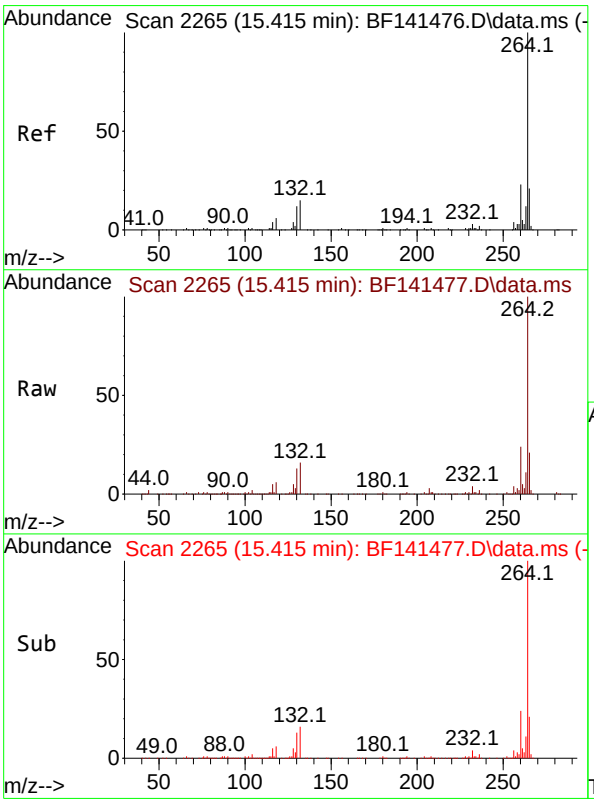
#85
Di-n-octyl phthalate
Concen: 53.213 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 519741

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3

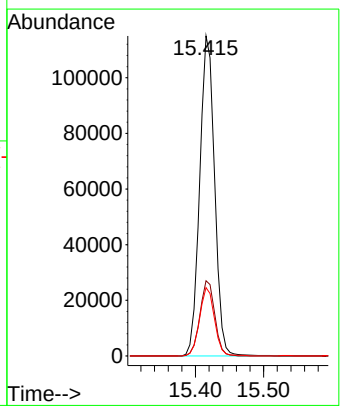


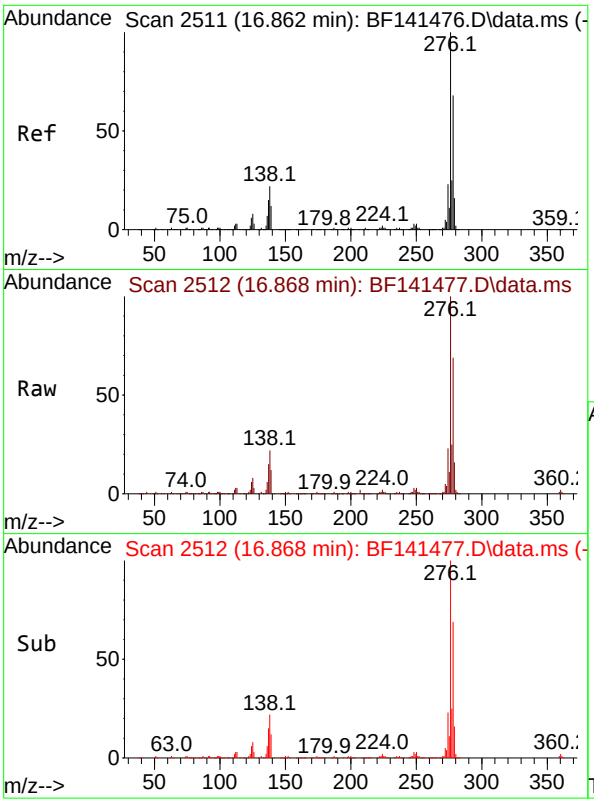


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:264 Resp: 174906

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	28.0
265	21.3	17.0	25.4



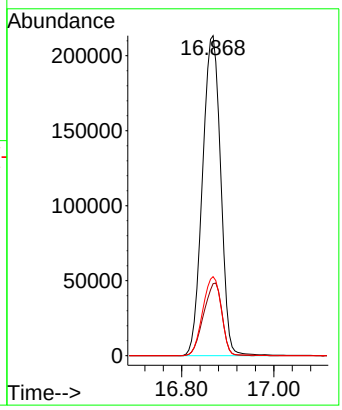


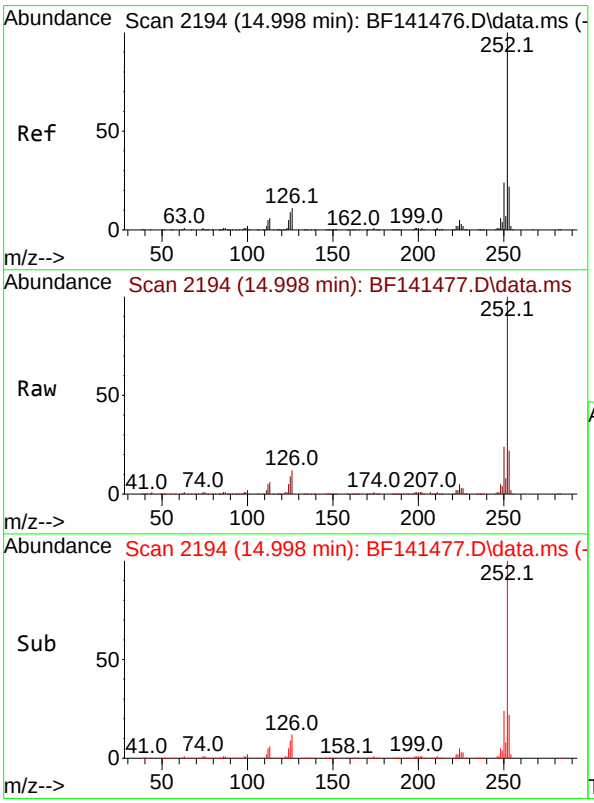
#87
Indeno(1,2,3-cd)pyrene
Concen: 54.277 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 586584

Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.0	27.0
277	25.2	20.4	30.6

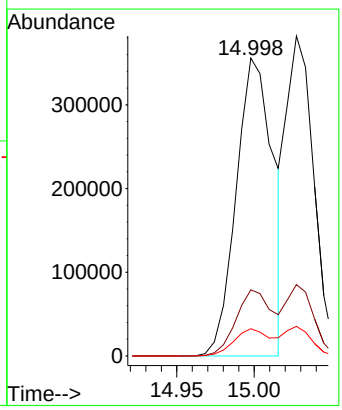


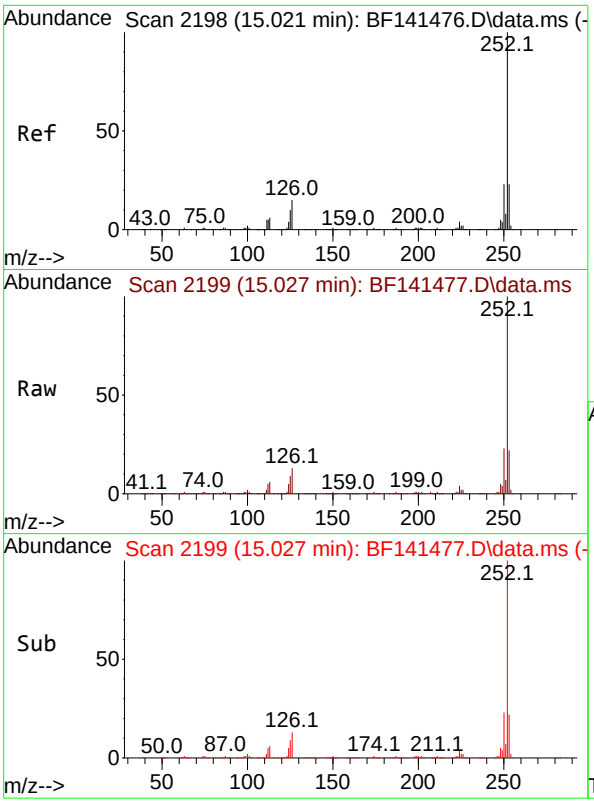


#88
Benzo(b)fluoranthene
Concen: 50.251 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 590149

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	9.2	7.0	10.6



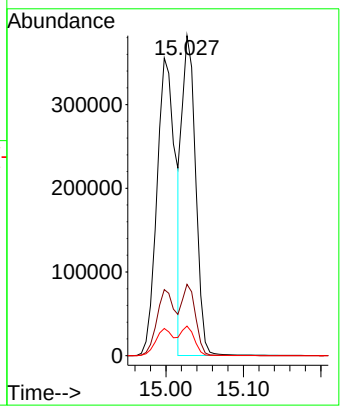


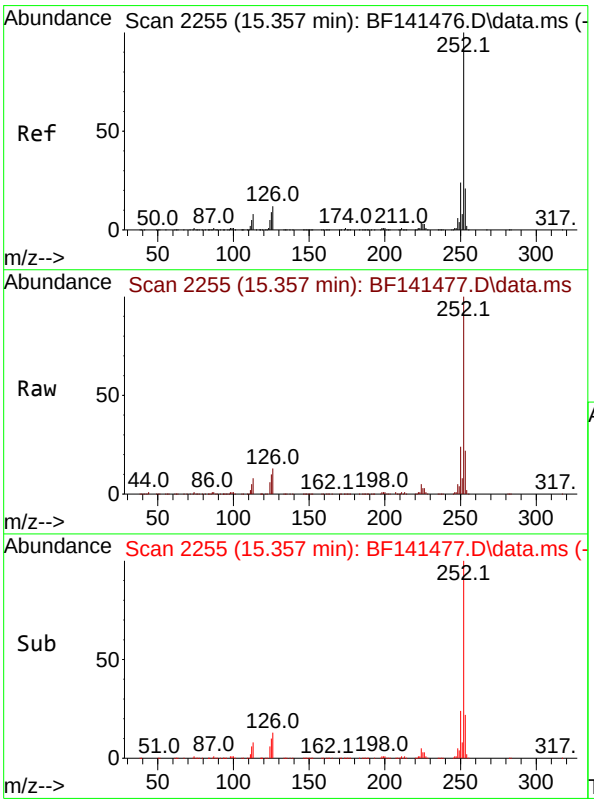
#89
Benzo(k)fluoranthene
Concen: 46.814 ng
RT: 15.027 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 469466

Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.0	27.0
125	9.2	7.4	11.0

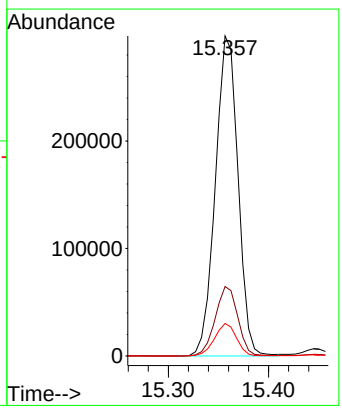


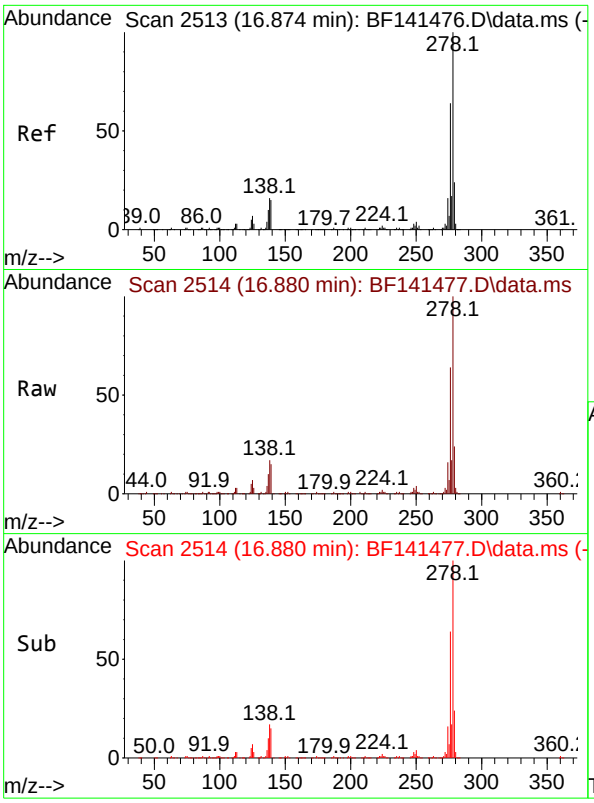


#90
Benzo(a)pyrene
Concen: 49.173 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:252 Resp: 467288

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	10.2	7.4	11.2



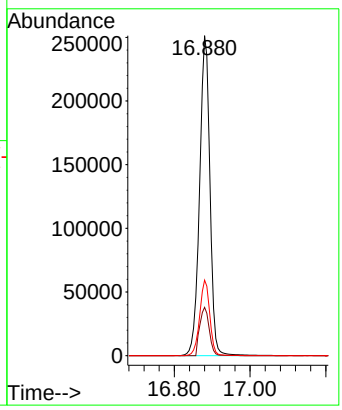


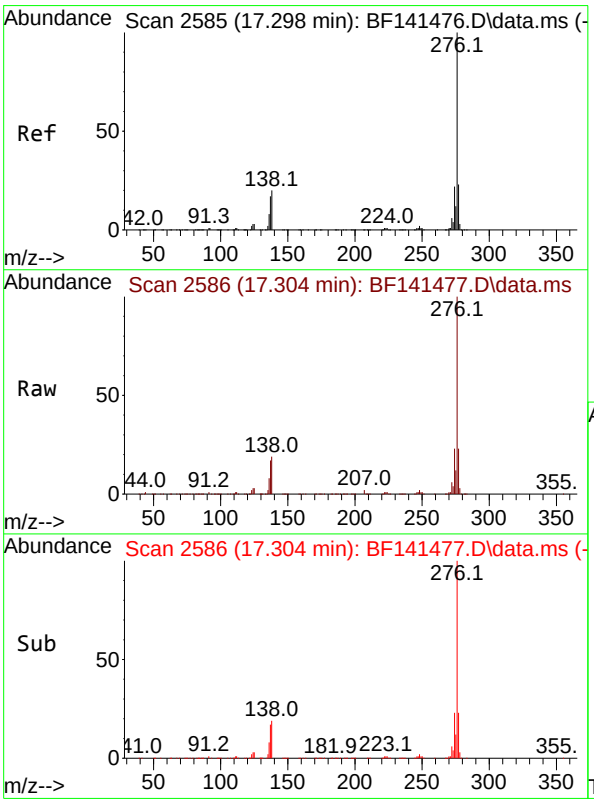
#91
Dibenzo(a,h)anthracene
Concen: 54.503 ng
RT: 16.880 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 477285

Ion	Ratio	Lower	Upper
278	100		
139	15.1	11.8	17.6
279	23.6	19.1	28.7

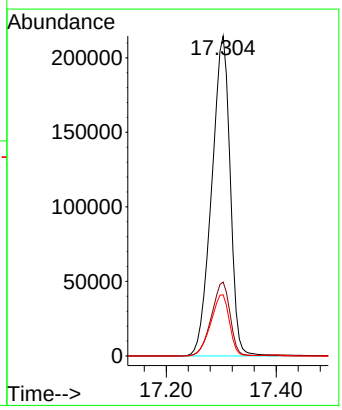




#92
Benzo(g,h,i)perylene
Concen: 54.592 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.012 min
Lab File: BF141477.D
Acq: 06 Feb 2025 13:21

Tgt Ion:276 Resp: 500274

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	19.1	15.9	23.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141478.D
Acq On : 06 Feb 2025 13:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 06 16:00:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	88704	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	344609	20.000	ng	0.00
39) Acenaphthene-d10	9.827	164	186729	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	321893	20.000	ng	0.00
76) Chrysene-d12	13.962	240	197108	20.000	ng	0.00
86) Perylene-d12	15.415	264	171026	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	672709	118.894	ng	0.00
7) Phenol-d6	6.434	99	843410	117.937	ng	0.00
23) Nitrobenzene-d5	7.357	82	788550	119.351	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	225049	119.976	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1410277	116.358	ng	0.00
79) Terphenyl-d14	12.904	244	1459213	124.977	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	138751	60.929	ng	99
3) Pyridine	3.210	79	335519	61.916	ng	99
4) n-Nitrosodimethylamine	3.175	42	225031	62.715	ng	98
6) Aniline	6.457	93	397494	59.254	ng	99
8) 2-Chlorophenol	6.581	128	358027	58.561	ng	97
9) Benzaldehyde	6.339	77	187887	49.441	ng	100
10) Phenol	6.451	94	437528	58.782	ng	98
11) bis(2-Chloroethyl)ether	6.534	93	335957	60.093	ng	99
12) 1,3-Dichlorobenzene	6.734	146	380433	58.941	ng	98
13) 1,4-Dichlorobenzene	6.810	146	382812	58.050	ng	98
14) 1,2-Dichlorobenzene	6.963	146	357837	58.465	ng	99
15) Benzyl Alcohol	6.939	79	324244	59.125	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	553943	57.883	ng	91
17) 2-Methylphenol	7.057	107	283563	59.272	ng	97
18) Hexachloroethane	7.304	117	144816	59.337	ng	96
19) n-Nitroso-di-n-propyla...	7.210	70	250412	58.540	ng	99
20) 3+4-Methylphenols	7.210	107	350980	57.722	ng	92
22) Acetophenone	7.204	105	504294	58.828	ng	99
24) Nitrobenzene	7.381	77	387174	60.096	ng	100
25) Isophorone	7.616	82	638004	60.562	ng	99
26) 2-Nitrophenol	7.692	139	199140	62.128	ng	97
27) 2,4-Dimethylphenol	7.733	122	227803	60.836	ng	99
28) bis(2-Chloroethoxy)met...	7.828	93	404195	59.877	ng	100
29) 2,4-Dichlorophenol	7.939	162	301959	59.683	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	328150	59.561	ng	99
31) Naphthalene	8.098	128	1056367	58.889	ng	100
32) Benzoic acid	7.875	122	250995	64.532	ng	99
33) 4-Chloroaniline	8.151	127	376211	60.070	ng	99
34) Hexachlorobutadiene	8.210	225	197955	59.849	ng	99
35) Caprolactam	8.533	113	94415	61.291	ng	97
36) 4-Chloro-3-methylphenol	8.639	107	335897	59.935	ng	99
37) 2-Methylnaphthalene	8.786	142	688021	58.941	ng	99
38) 1-Methylnaphthalene	8.886	142	661628	58.522	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	321763	59.560	ng	99
41) Hexachlorocyclopentadiene	8.939	237	120063	66.819	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	211702	60.632	ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141478.D
Acq On : 06 Feb 2025 13:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 06 16:00:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

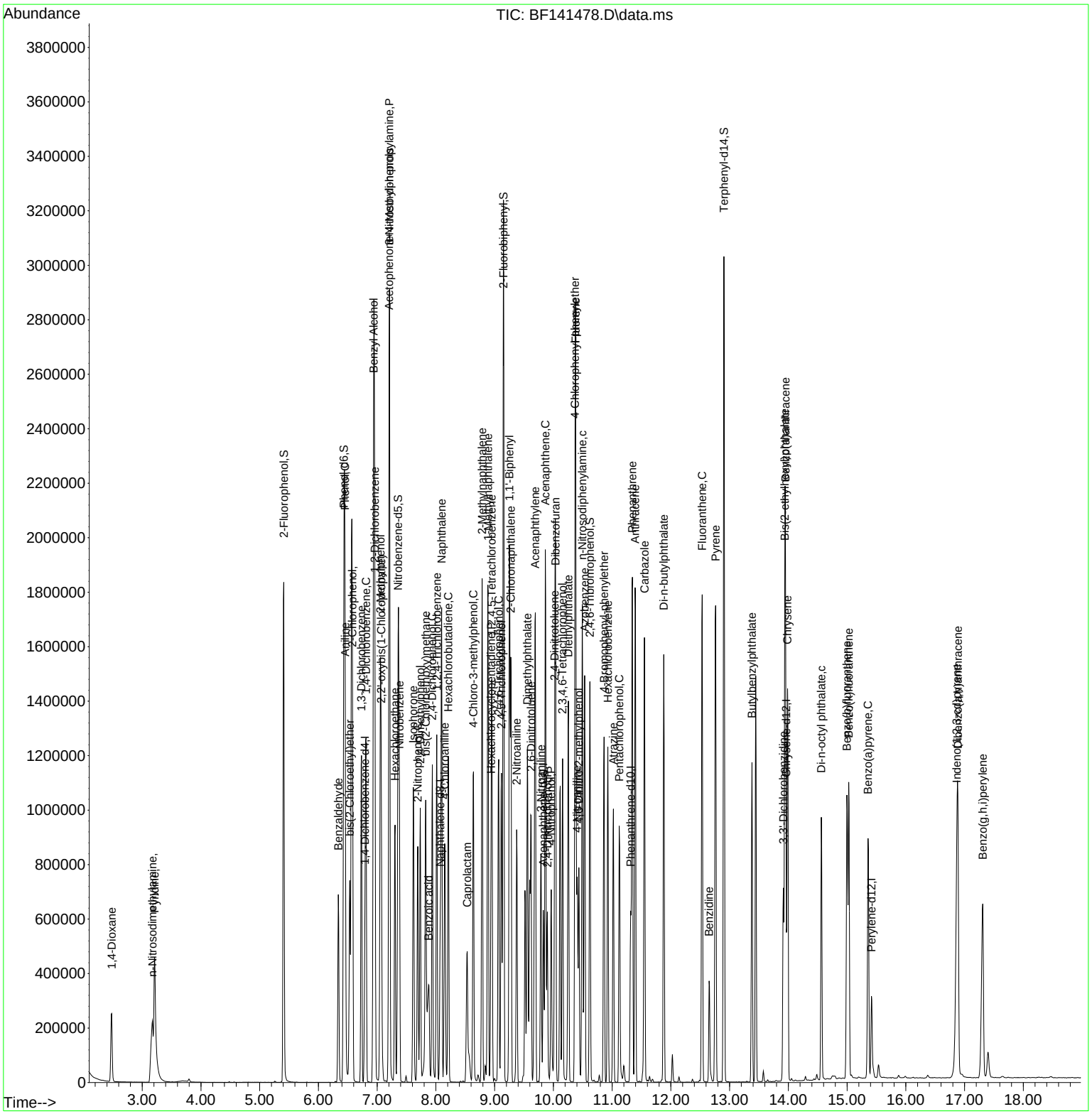
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	229006	60.519	ng	98
46) 1,1'-Biphenyl	9.251	154	861067	59.479	ng	100
47) 2-Chloronaphthalene	9.275	162	636511	59.459	ng	99
48) 2-Nitroaniline	9.375	65	224709	62.547	ng	99
49) Acenaphthylene	9.692	152	946382	59.436	ng	100
50) Dimethylphthalate	9.557	163	751128	59.253	ng	99
51) 2,6-Dinitrotoluene	9.622	165	167387	60.403	ng	100
52) Acenaphthene	9.863	154	631289	58.974	ng	99
53) 3-Nitroaniline	9.792	138	179664	60.237	ng	100
54) 2,4-Dinitrophenol	9.898	184	111060	67.432	ng	96
55) Dibenzofuran	10.039	168	915117	58.242	ng	100
56) 4-Nitrophenol	9.963	139	143994	65.035	ng	97
57) 2,4-Dinitrotoluene	10.022	165	222091	60.202	ng	99
58) Fluorene	10.380	166	707371	58.225	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	198636	60.972	ng	99
60) Diethylphthalate	10.257	149	732804	58.755	ng	99
61) 4-Chlorophenyl-phenyle...	10.369	204	342324	58.570	ng	98
62) 4-Nitroaniline	10.404	138	182946	60.406	ng	96
63) Azobenzene	10.533	77	739338	59.629	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	140610	62.884	ng	99
66) n-Nitrosodiphenylamine	10.492	169	603914	58.609	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	213385	59.314	ng	98
68) Hexachlorobenzene	10.927	284	220611	59.552	ng	98
69) Atrazine	11.021	200	175824	56.878	ng	99
70) Pentachlorophenol	11.121	266	153971	65.001	ng	100
71) Phenanthrene	11.345	178	1032075	58.248	ng	100
72) Anthracene	11.392	178	1034181	58.062	ng	99
73) Carbazole	11.551	167	927882	57.896	ng	100
74) Di-n-butylphthalate	11.880	149	1087815	58.783	ng	99
75) Fluoranthene	12.533	202	1053887	56.102	ng	100
77) Benzidine	12.651	184	207602	47.757	ng	99
78) Pyrene	12.763	202	1068624	63.687	ng	99
80) Butylbenzylphthalate	13.380	149	368219	63.357	ng	99
81) Benzo(a)anthracene	13.951	228	774318	59.097	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	208826	55.639	ng	98
83) Chrysene	13.986	228	723815	59.829	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	411979	62.851	ng	100
85) Di-n-octyl phthalate	14.562	149	621505	66.464	ng	100
87) Indeno(1,2,3-cd)pyrene	16.868	276	723493	68.464	ng	100
88) Benzo(b)fluoranthene	14.998	252	695617	60.575	ng	99
89) Benzo(k)fluoranthene	15.027	252	563342	57.449	ng	99
90) Benzo(a)pyrene	15.357	252	561457	60.423	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	584115	68.216	ng	99
92) Benzo(g,h,i)perylene	17.309	276	617241	68.884	ng	99

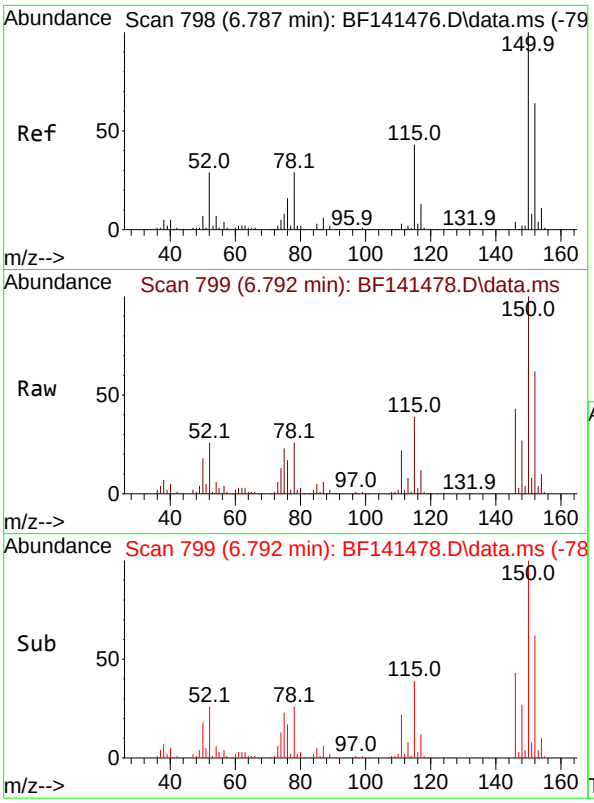
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141478.D
Acq On : 06 Feb 2025 13:47
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 06 16:00:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



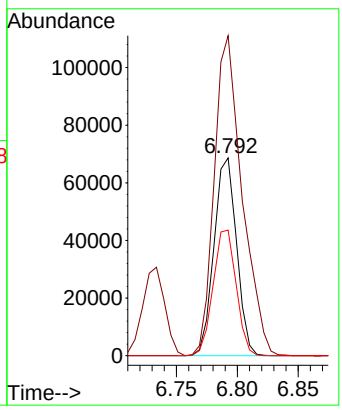


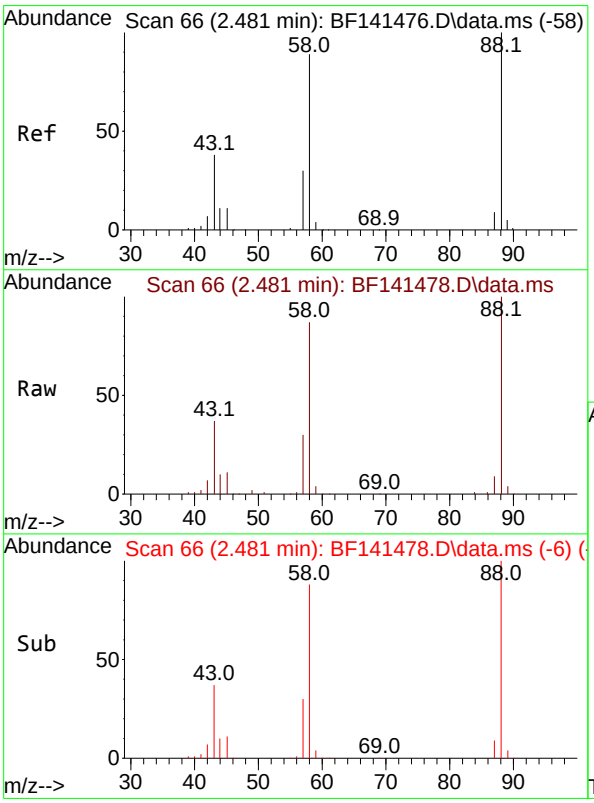
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 88704

Ion	Ratio	Lower	Upper
152	100		
150	161.8	125.0	187.4
115	63.6	53.6	80.4

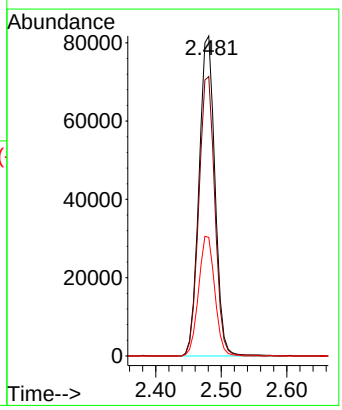


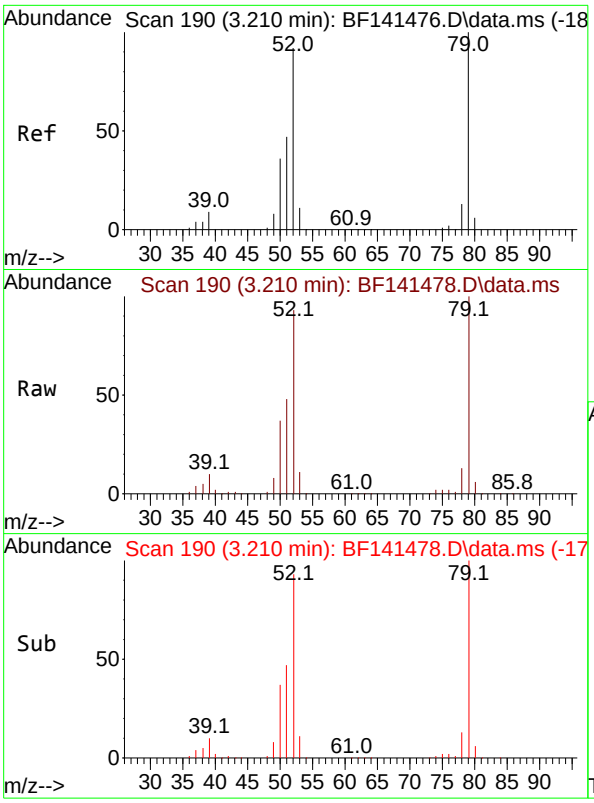


#2
1,4-Dioxane
Concen: 60.929 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 88 Resp: 138751

Ion	Ratio	Lower	Upper
88	100		
58	87.5	71.1	106.7
43	37.9	30.6	46.0



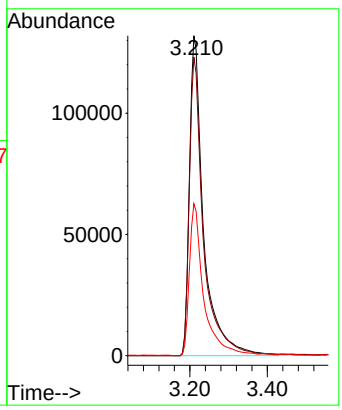


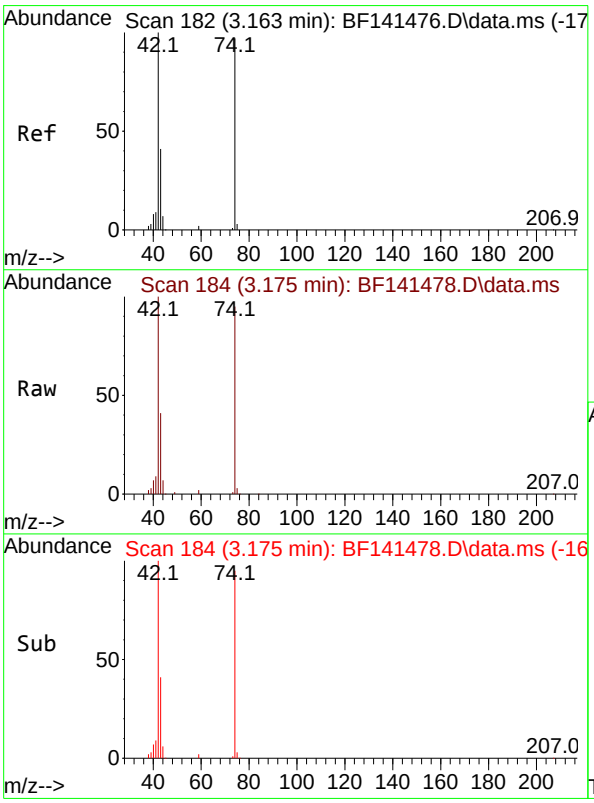
#3
Pyridine
Concen: 61.916 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 335519

Ion	Ratio	Lower	Upper
79	100		
52	93.3	73.7	110.5
51	47.5	37.5	56.3

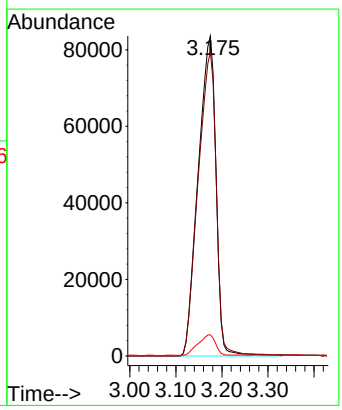


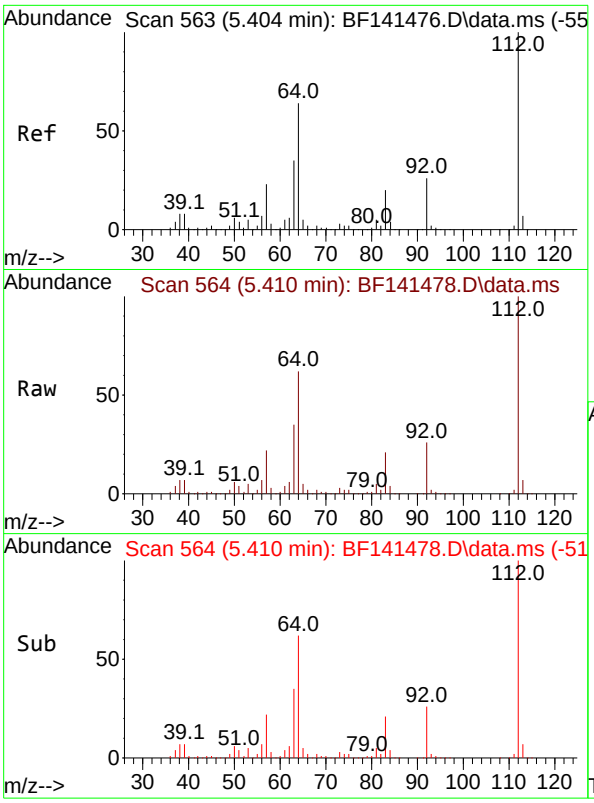


#4
n-Nitrosodimethylamine
Concen: 62.715 ng
RT: 3.175 min Scan# 184
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 42 Resp: 225031

Ion	Ratio	Lower	Upper
42	100		
74	95.0	78.0	117.0
44	6.6	5.4	8.2



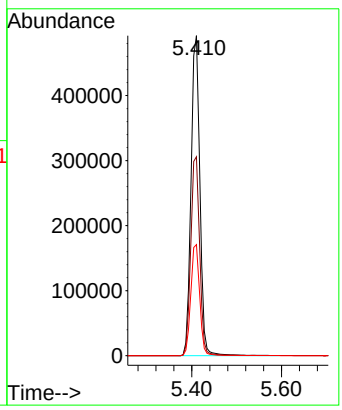


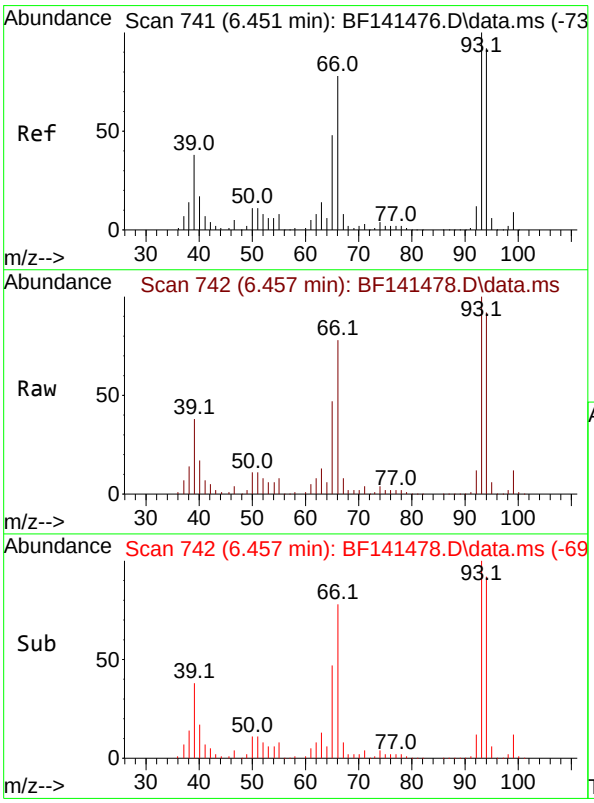
#5
2-Fluorophenol
Concen: 118.894 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 672709

Ion	Ratio	Lower	Upper
112	100		
64	62.2	51.1	76.7
63	34.7	28.4	42.6

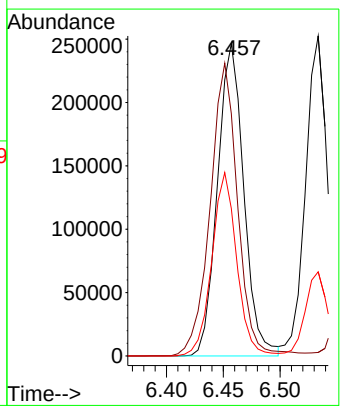


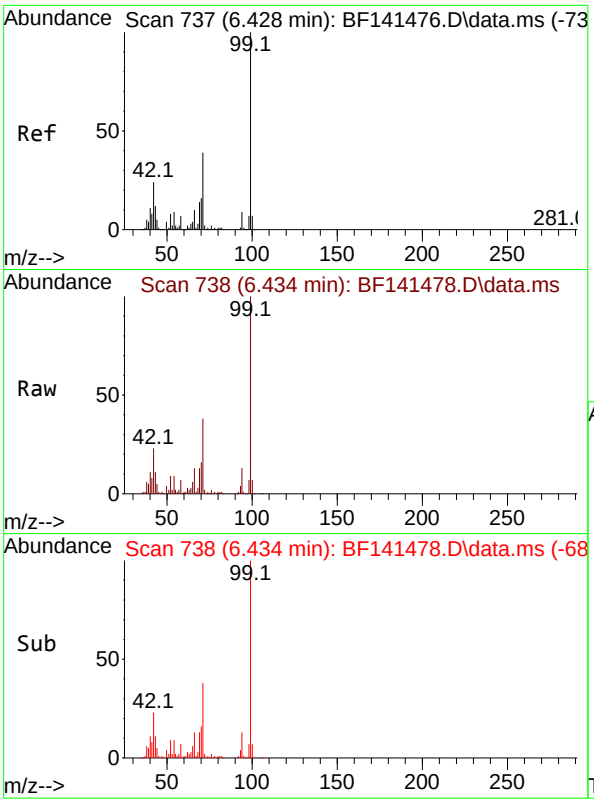


#6
Aniline
Concen: 59.254 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 93 Resp: 397494

Ion	Ratio	Lower	Upper
93	100		
66	77.6	62.6	94.0
65	47.2	38.3	57.5



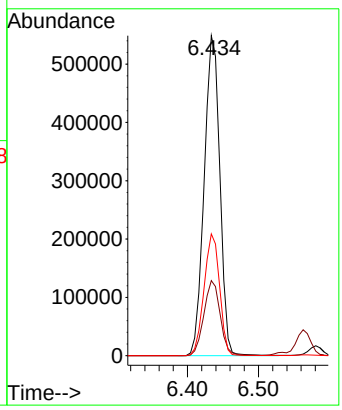


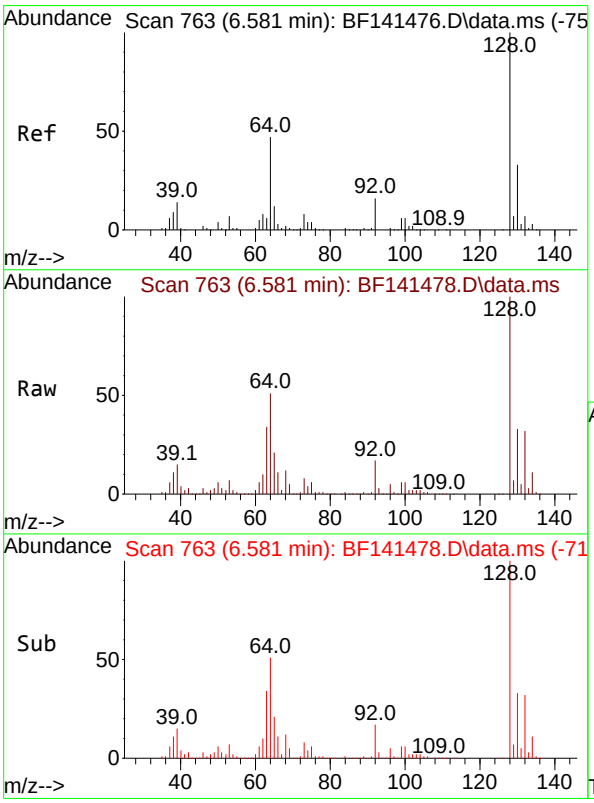
#7
Phenol-d6
Concen: 117.937 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 843410

Ion	Ratio	Lower	Upper
99	100		
42	23.5	19.1	28.7
71	38.0	31.1	46.7

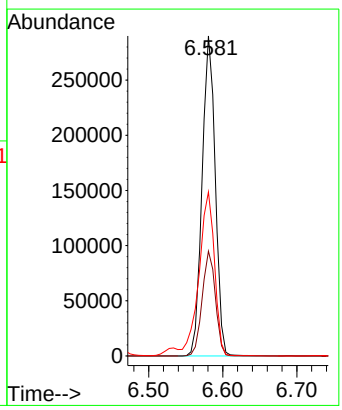


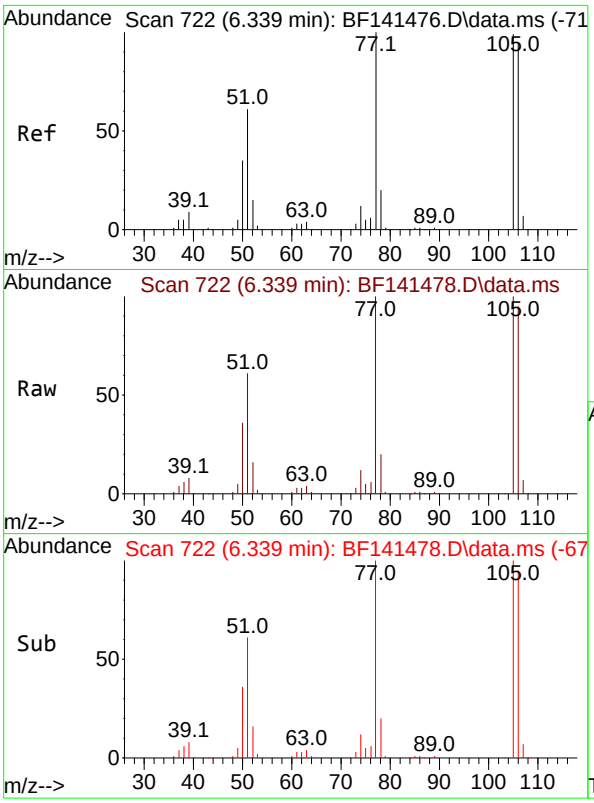


#8
2-Chlorophenol
Concen: 58.561 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:128 Resp: 358027

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.7	52.7
64	51.3	28.3	68.3



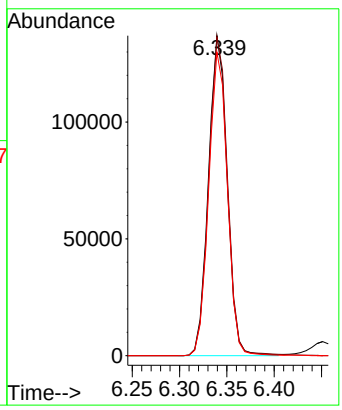


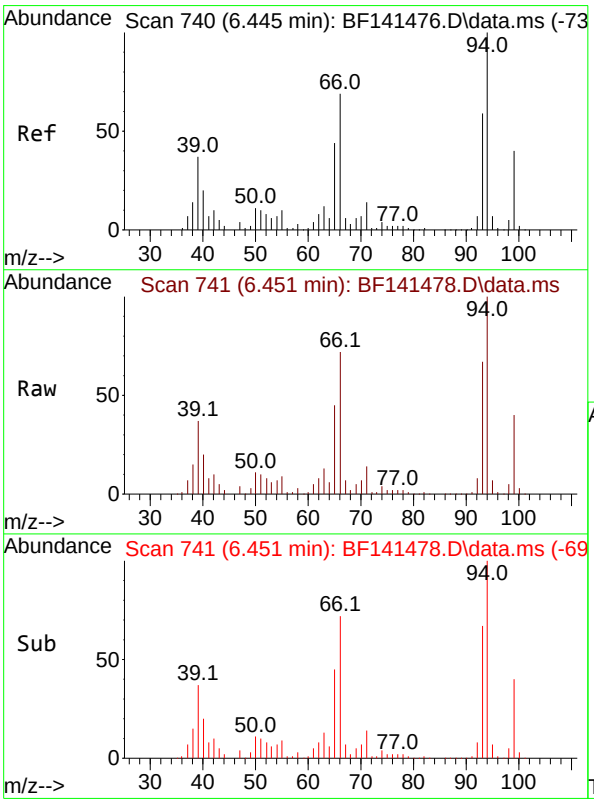
#9
Benzaldehyde
Concen: 49.441 ng
RT: 6.339 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 187887

Ion	Ratio	Lower	Upper
77	100		
105	99.7	79.4	119.4
106	94.9	75.1	115.1

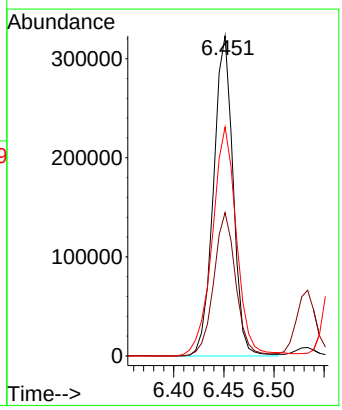


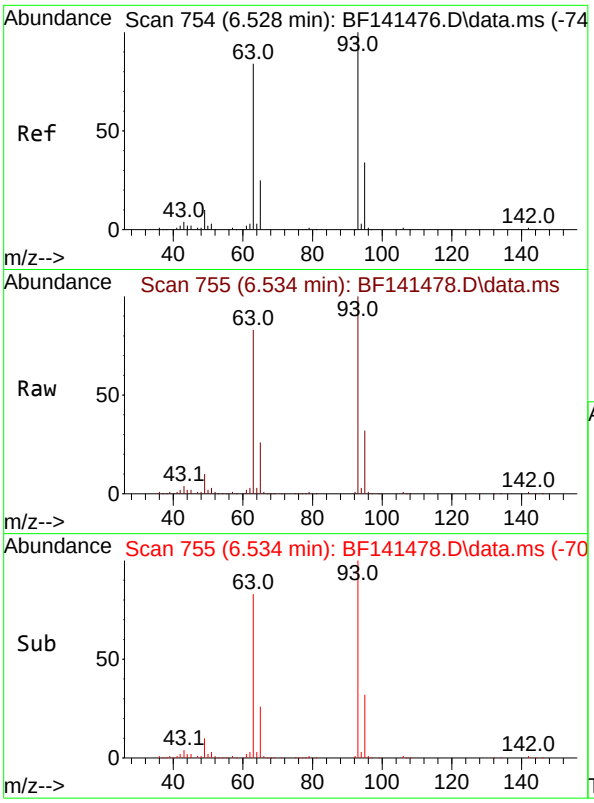


#10
Phenol
Concen: 58.782 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 94 Resp: 437528

Ion	Ratio	Lower	Upper
94	100		
65	44.8	23.7	63.7
66	71.5	49.3	89.3



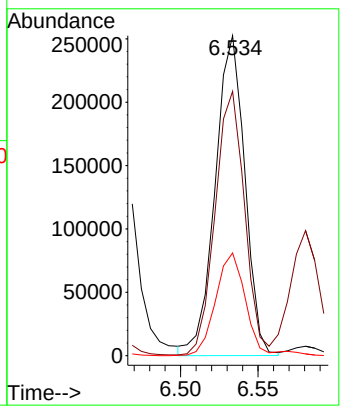


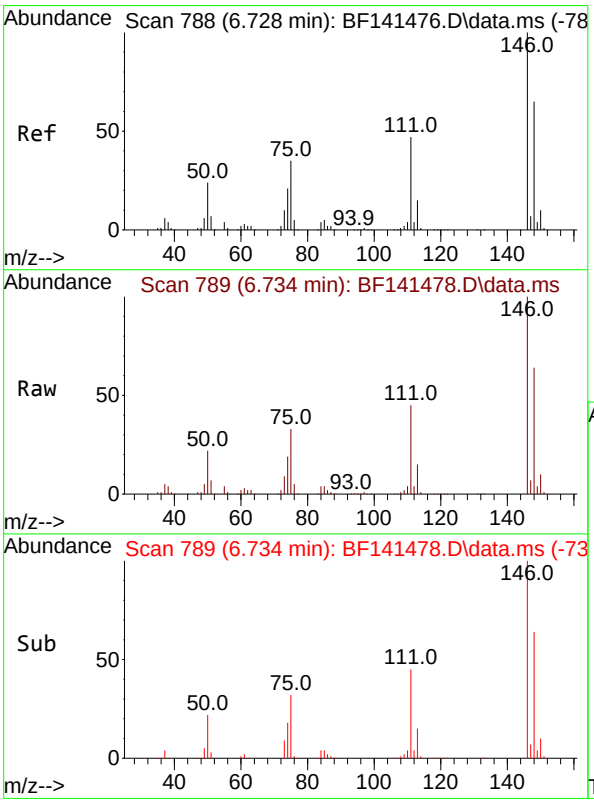
#11
bis(2-Chloroethyl)ether
Concen: 60.093 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 335957

Ion	Ratio	Lower	Upper
93	100		
63	82.6	62.0	102.0
95	32.1	12.6	52.6

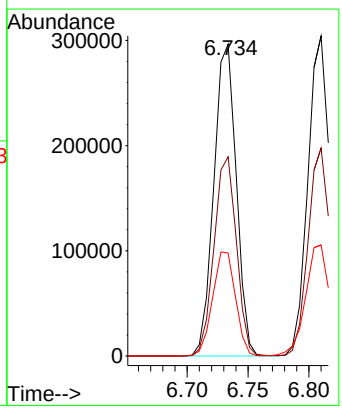


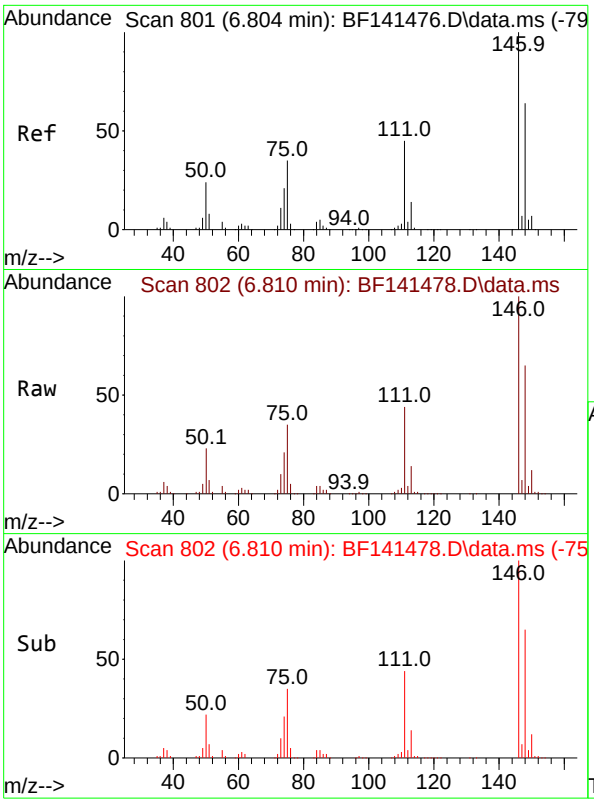


#12
1,3-Dichlorobenzene
Concen: 58.941 ng
RT: 6.734 min Scan# 789
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:146 Resp: 380433

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.9	77.9
75	33.0	28.2	42.2



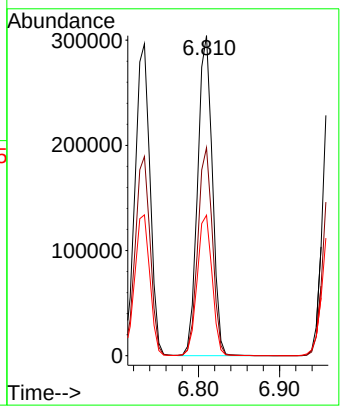


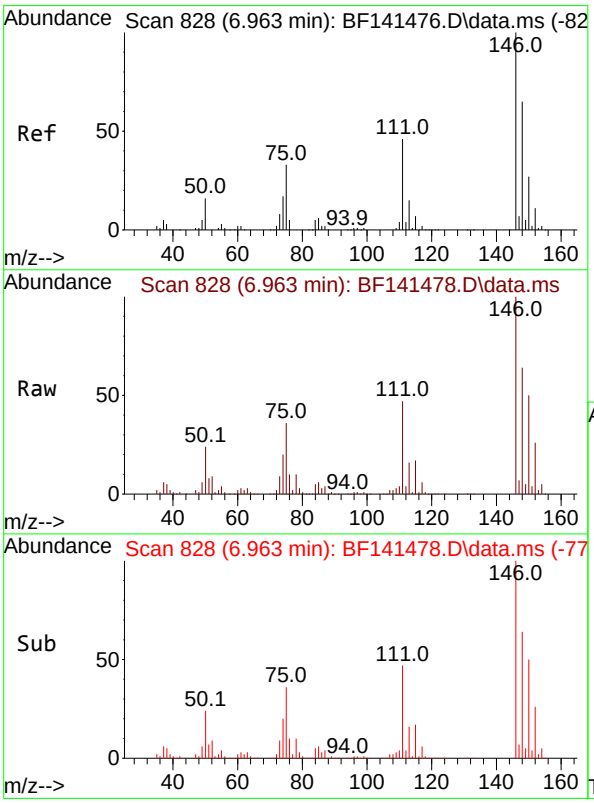
#13
1,4-Dichlorobenzene
Concen: 58.050 ng
RT: 6.810 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 382812

Ion	Ratio	Lower	Upper
146	100		
148	65.0	50.9	76.3
111	43.9	35.9	53.9

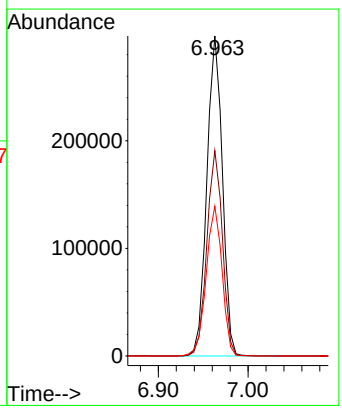


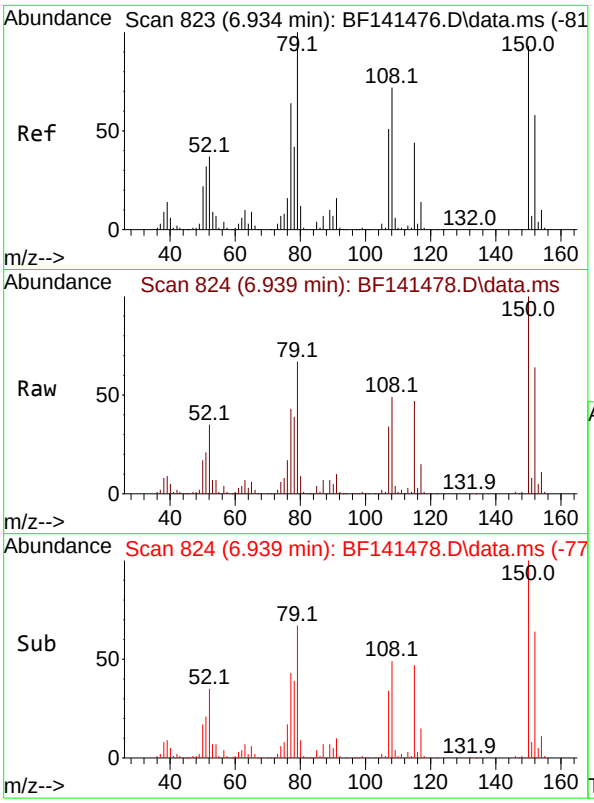


#14
1,2-Dichlorobenzene
Concen: 58.465 ng
RT: 6.963 min Scan# 828
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:146 Resp: 357837

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.6
111	46.8	37.0	55.4



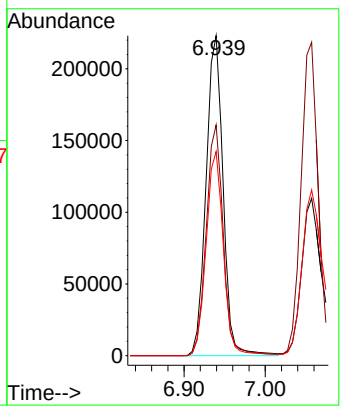


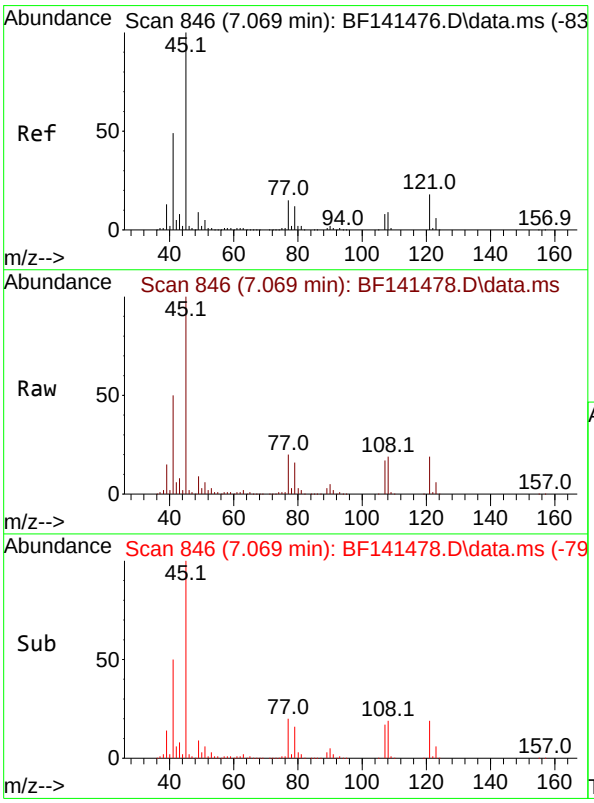
#15
Benzyl Alcohol
Concen: 59.125 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 324244

Ion	Ratio	Lower	Upper
79	100		
108	72.1	57.4	86.2
77	63.8	50.9	76.3

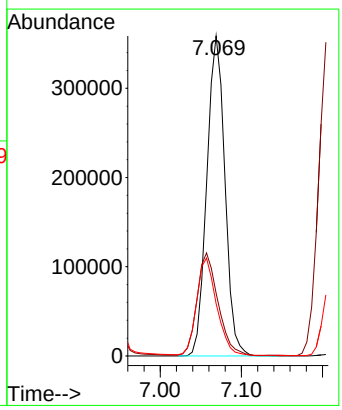


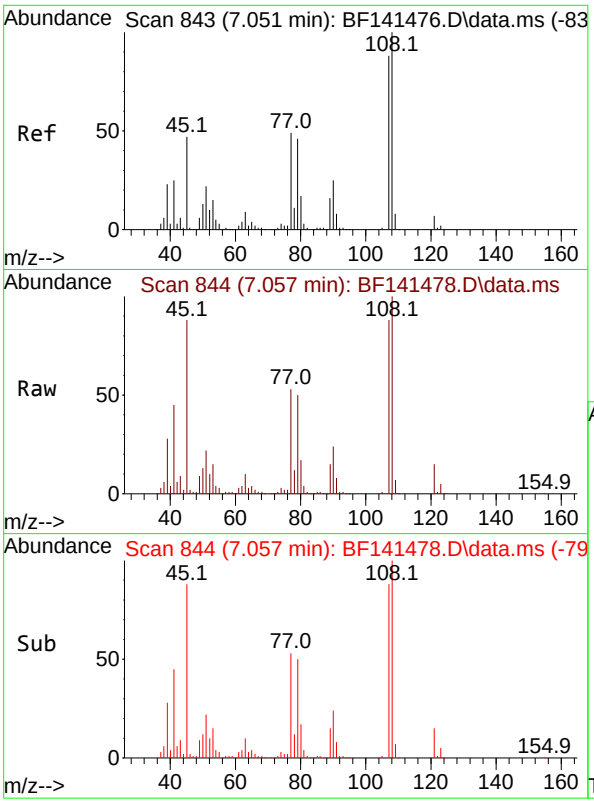


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.883 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 45 Resp: 553943

Ion	Ratio	Lower	Upper
45	100		
77	19.6	0.0	35.8
79	16.3	0.0	32.7



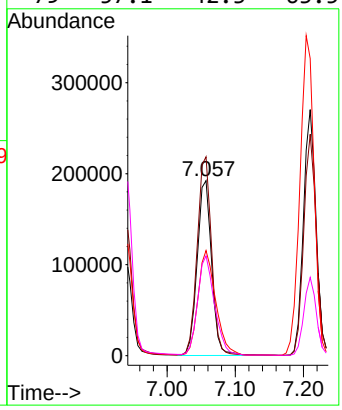


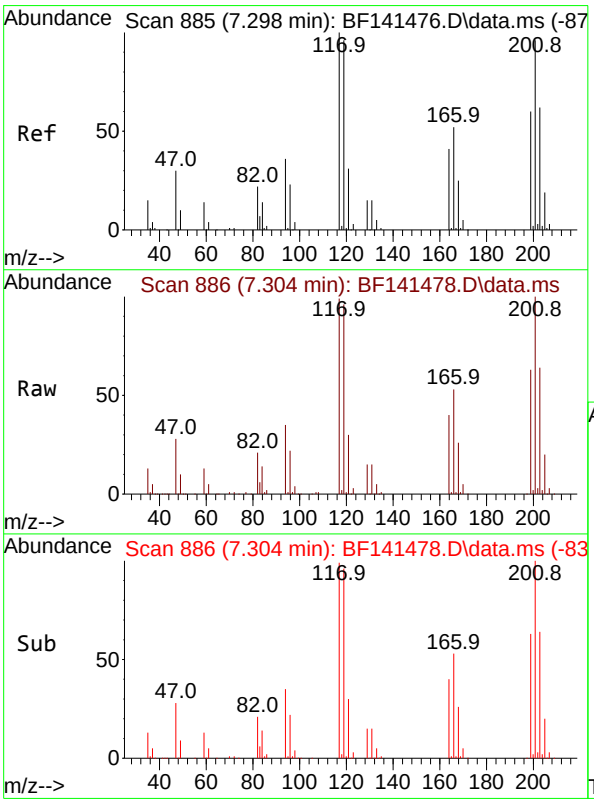
#17
2-Methylphenol
Concen: 59.272 ng
RT: 7.057 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 283563

Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.6	136.0
77	60.1	44.4	66.6
79	57.1	42.3	63.5

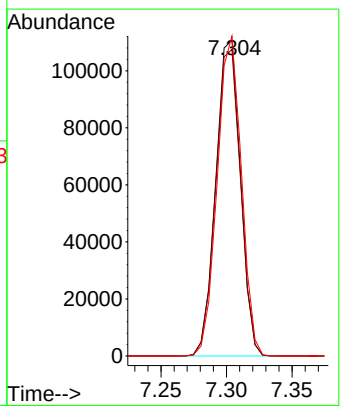


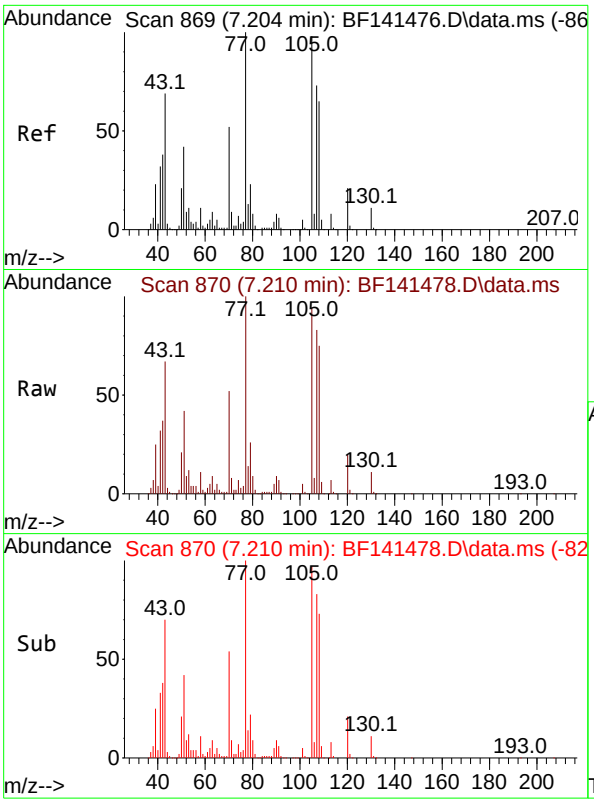


#18
Hexachloroethane
Concen: 59.337 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:117 Resp: 144816

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.5	114.7
201	101.4	76.7	115.1



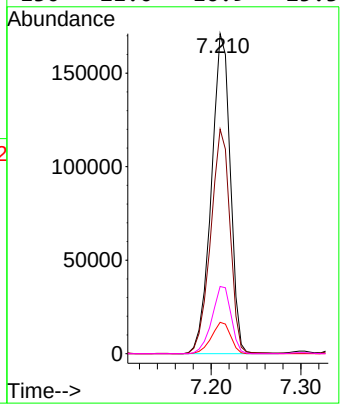


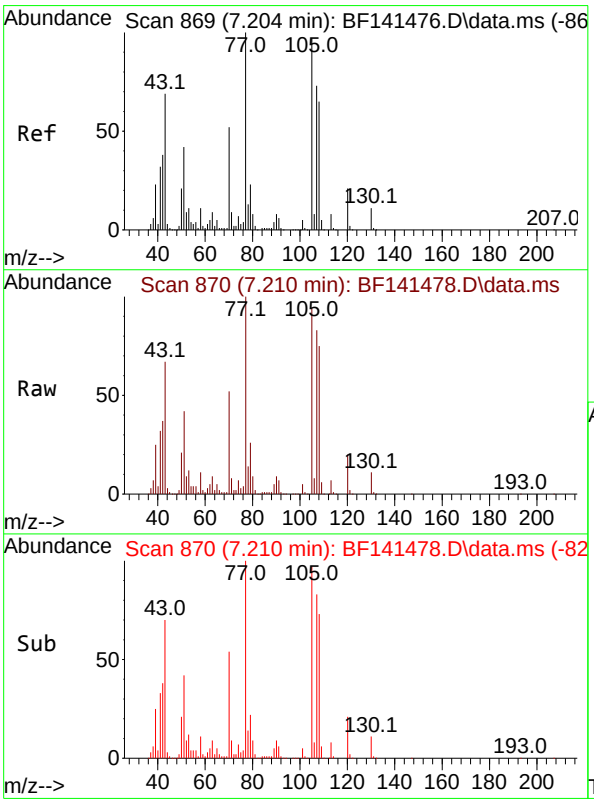
#19
n-Nitroso-di-n-propylamine
Concen: 58.540 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 250412

Ion	Ratio	Lower	Upper
70	100		
42	70.1	57.4	86.2
101	9.8	8.0	12.0
130	21.0	16.9	25.3

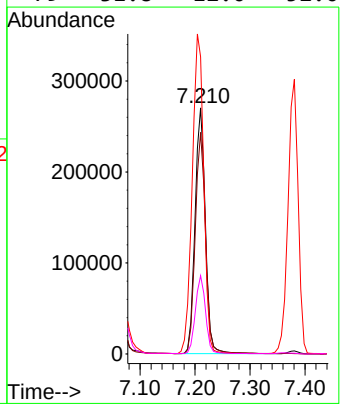


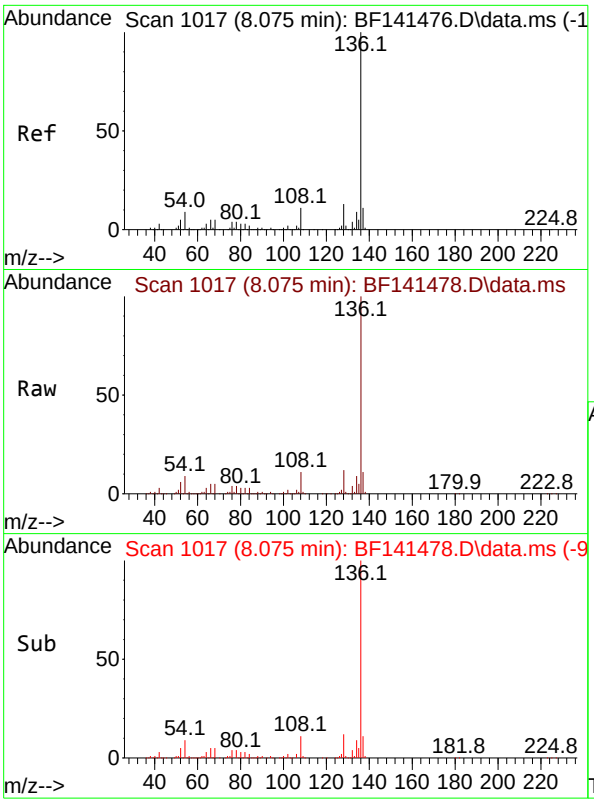


#20
3+4-Methylphenols
Concen: 57.722 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:107 Resp: 350980

Ion	Ratio	Lower	Upper
107	100		
108	90.0	68.5	108.5
77	120.7	116.5	156.5
79	31.8	12.0	52.0



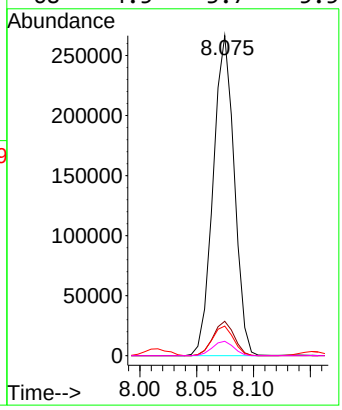


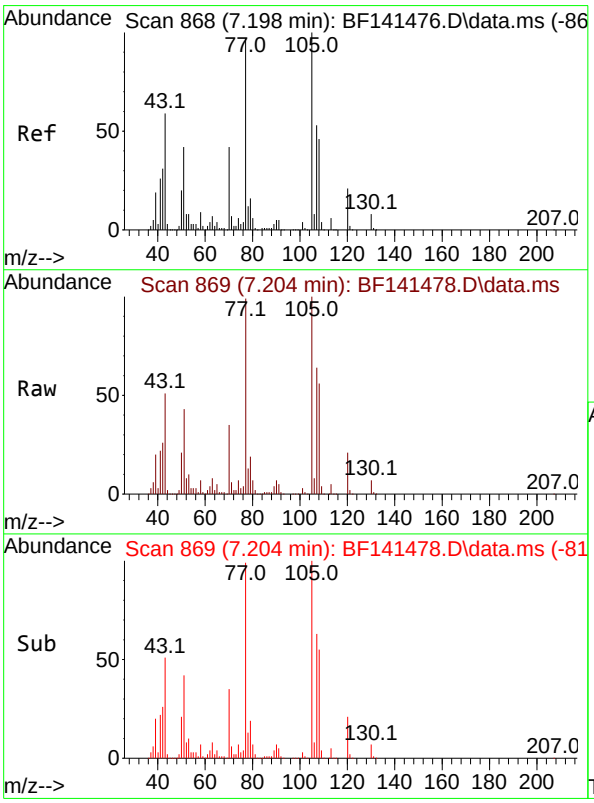
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 344609

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.2	7.2	10.8
68	4.5	3.7	5.5

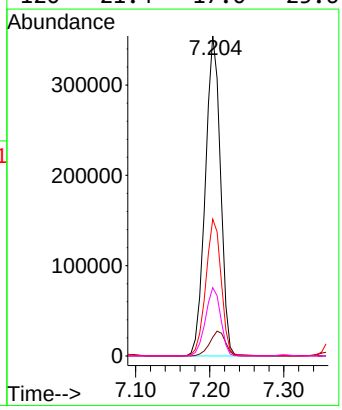


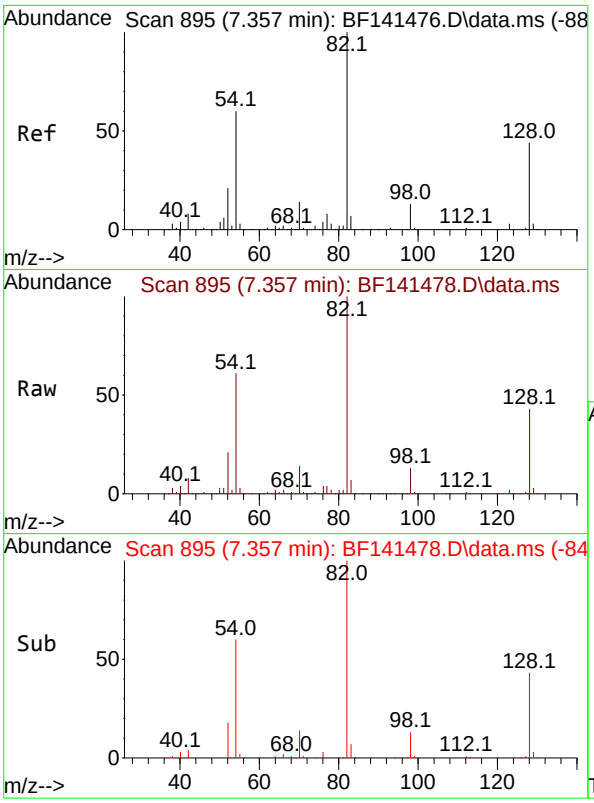


#22
Acetophenone
Concen: 58.828 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:105 Resp: 504294

Ion	Ratio	Lower	Upper
105	100		
71	5.9	5.7	8.5
51	42.7	33.7	50.5
120	21.4	17.0	25.6



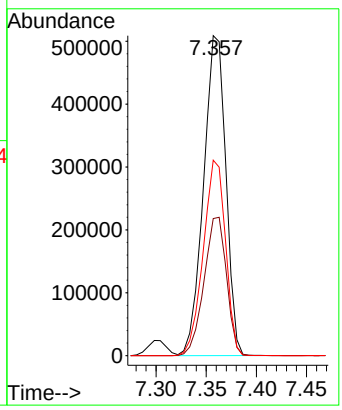


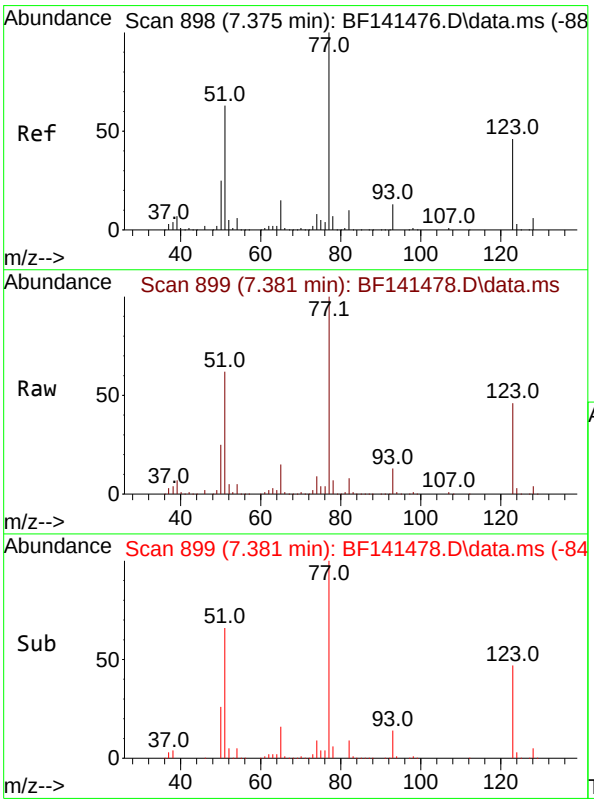
#23
Nitrobenzene-d5
Concen: 119.351 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 788550

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.8	52.2
54	61.1	48.2	72.4

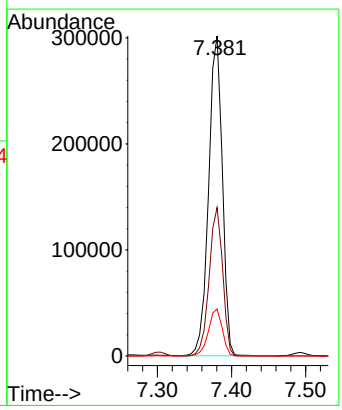


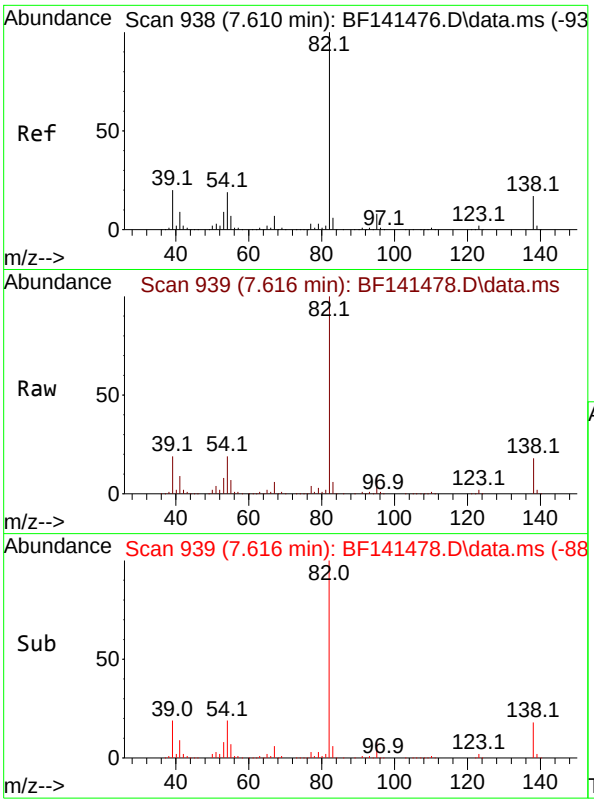


#24
Nitrobenzene
Concen: 60.096 ng
RT: 7.381 min Scan# 899
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 77 Resp: 387174

Ion	Ratio	Lower	Upper
77	100		
123	46.4	36.9	55.3
65	14.7	11.9	17.9



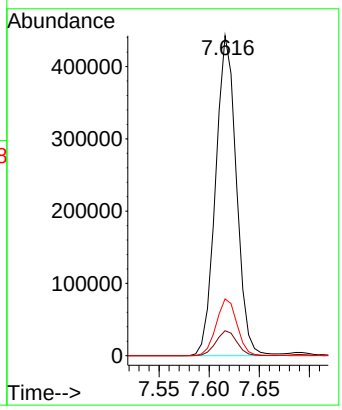


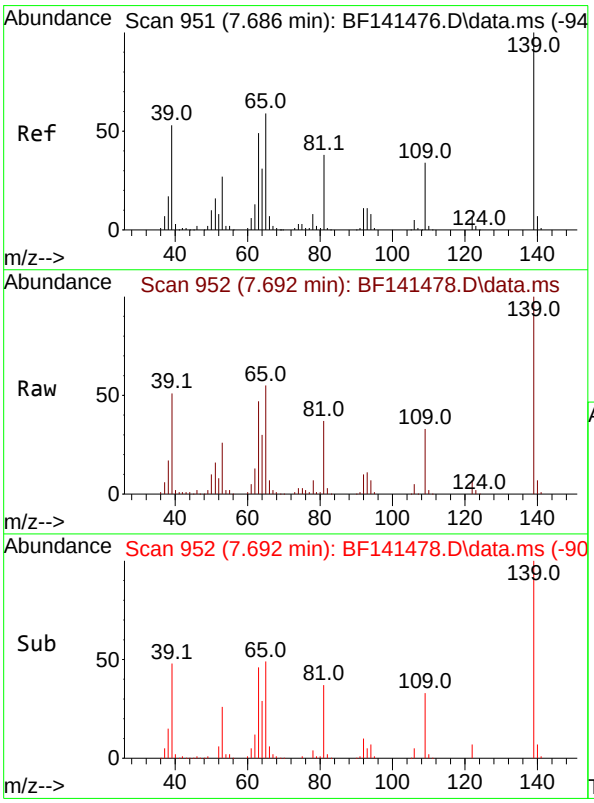
#25
Isophorone
Concen: 60.562 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 638004

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.7	13.9	20.9

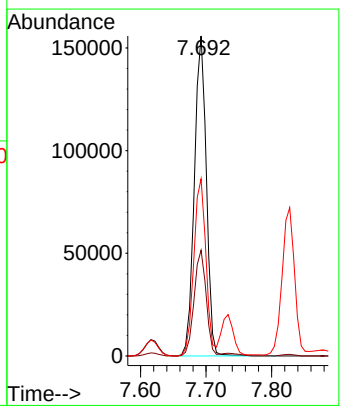


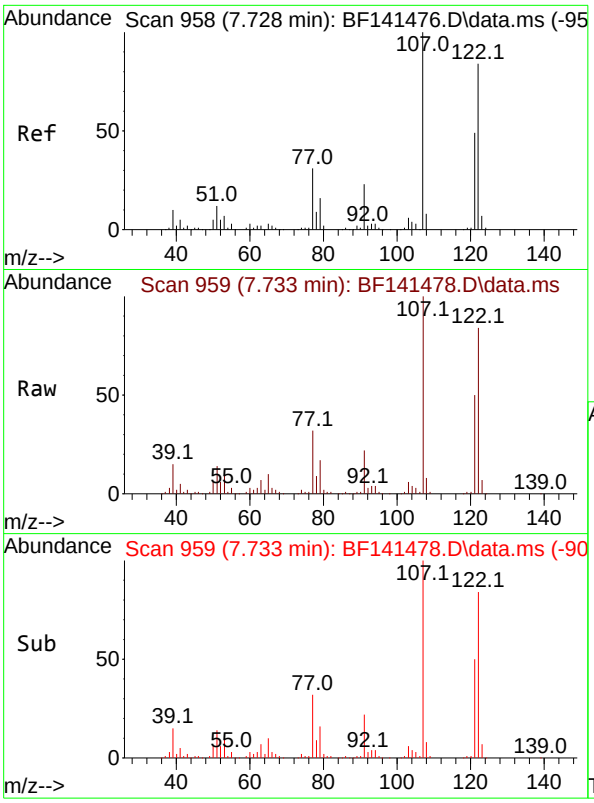


#26
2-Nitrophenol
Concen: 62.128 ng
RT: 7.692 min Scan# 952
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:139 Resp: 199140

Ion	Ratio	Lower	Upper
139	100		
109	33.1	27.0	40.6
65	55.3	47.1	70.7



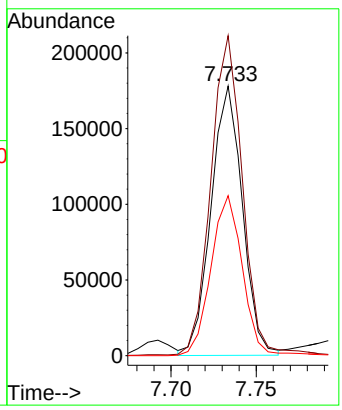


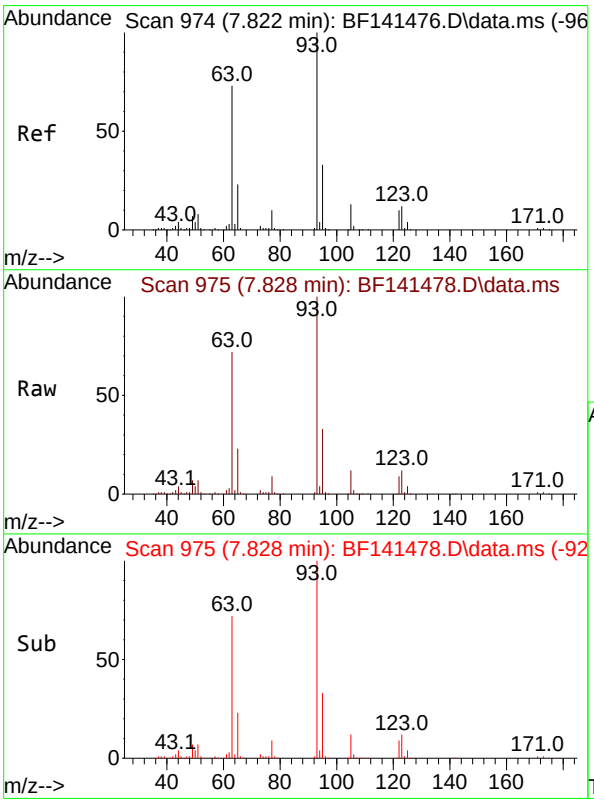
#27
2,4-Dimethylphenol
Concen: 60.836 ng
RT: 7.733 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 227803

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	59.4	46.0	69.0

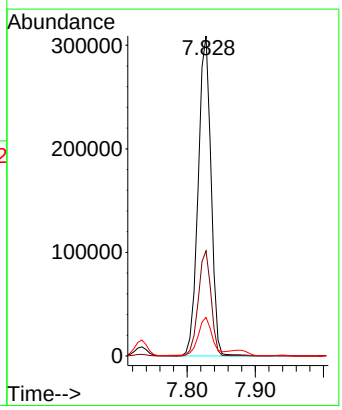


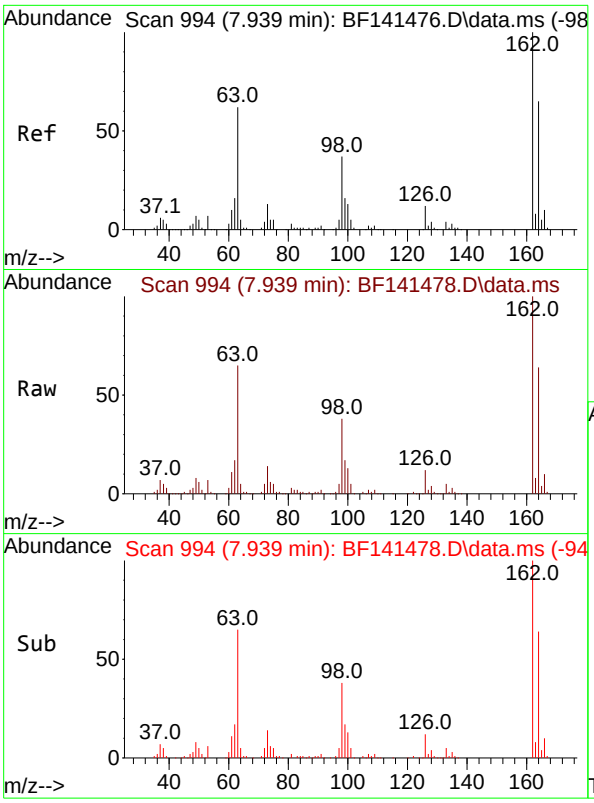


#28
bis(2-Chloroethoxy)methane
Concen: 59.877 ng
RT: 7.828 min Scan# 975
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 93 Resp: 404195

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.1	39.1
123	12.1	9.5	14.3



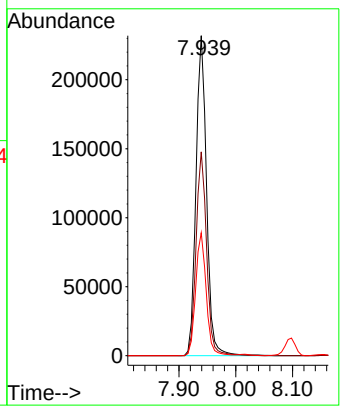


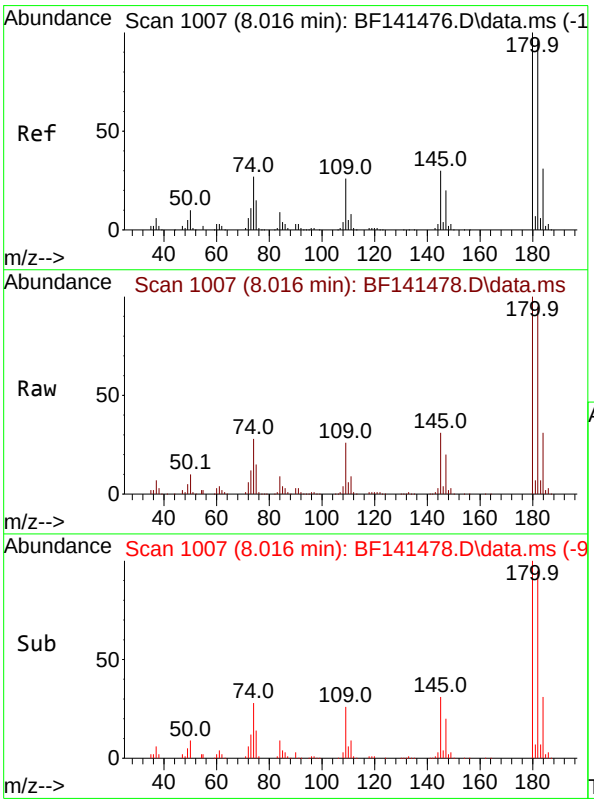
#29
2,4-Dichlorophenol
Concen: 59.683 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 301959

Ion	Ratio	Lower	Upper
162	100		
164	63.7	44.6	84.6
98	38.4	17.2	57.2

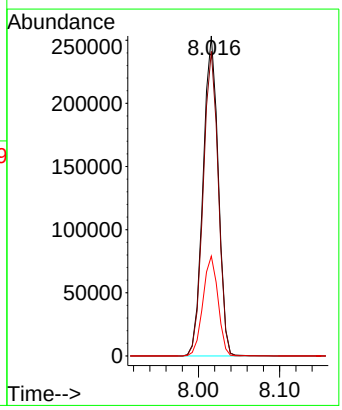


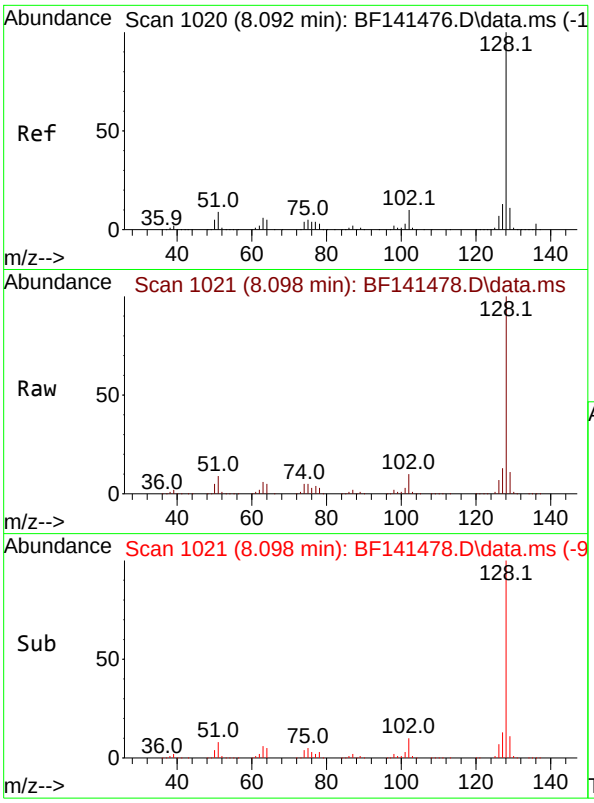


#30
1,2,4-Trichlorobenzene
Concen: 59.561 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:180 Resp: 328150

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.8	115.2
145	31.2	24.2	36.4



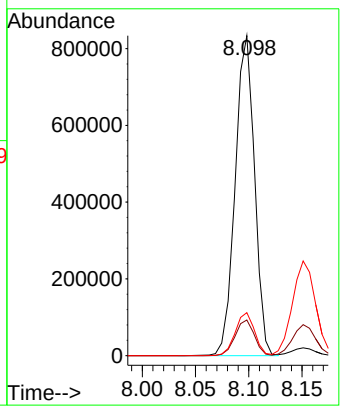


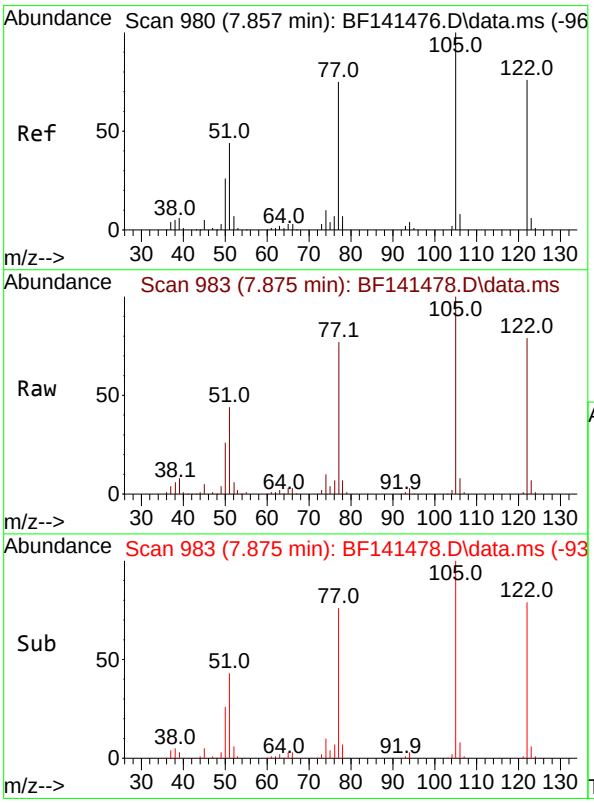
#31
Naphthalene
Concen: 58.889 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1056367

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

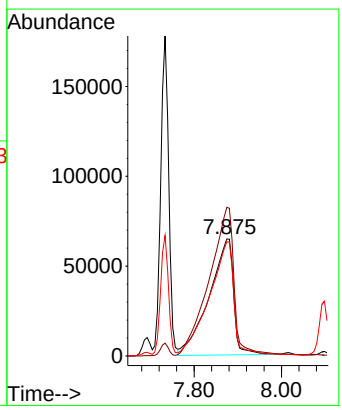


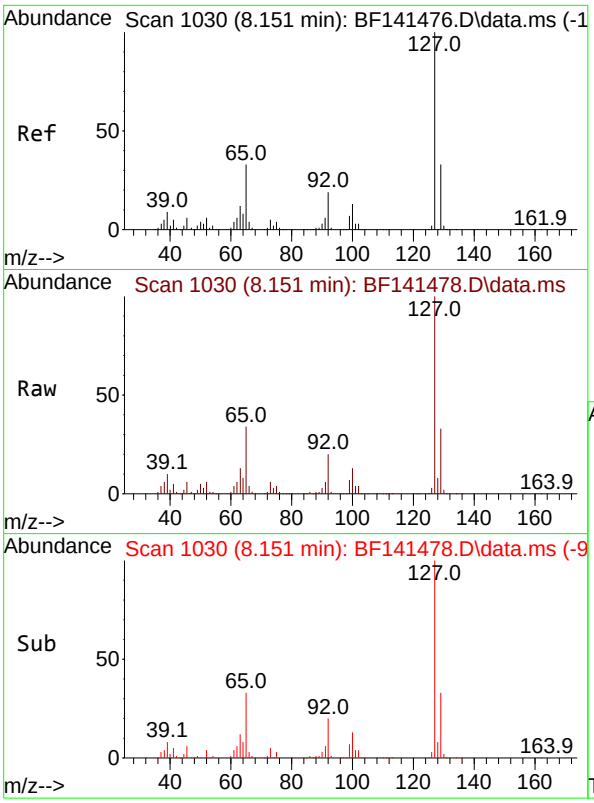


#32
Benzoic acid
Concen: 64.532 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.017 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:122 Resp: 250995

Ion	Ratio	Lower	Upper
122	100		
105	127.0	106.5	146.5
77	97.7	76.3	116.3



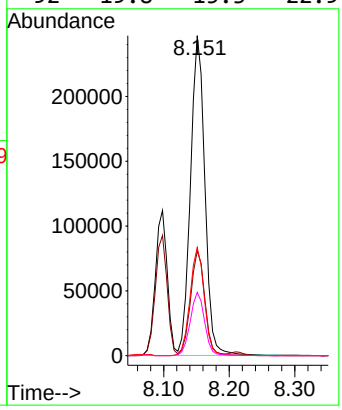


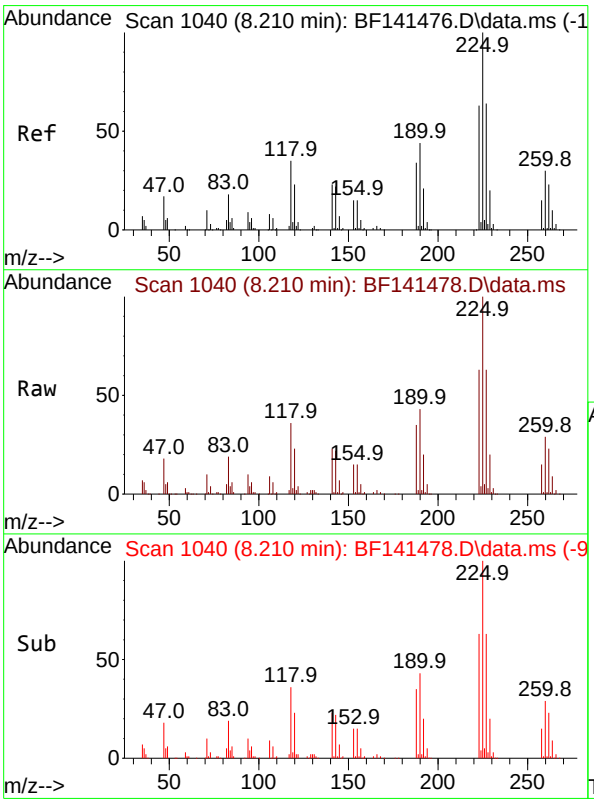
#33
4-Chloroaniline
Concen: 60.070 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 376211

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.5	39.7
65	33.8	26.4	39.6
92	19.8	15.3	22.9

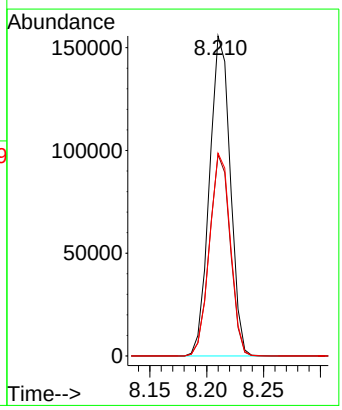


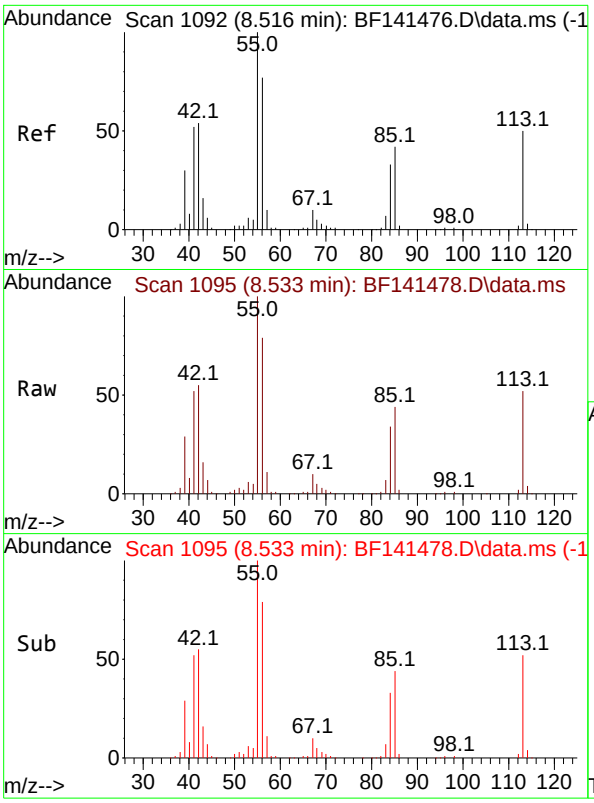


#34
Hexachlorobutadiene
Concen: 59.849 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:225 Resp: 197955

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	63.4	51.0	76.6



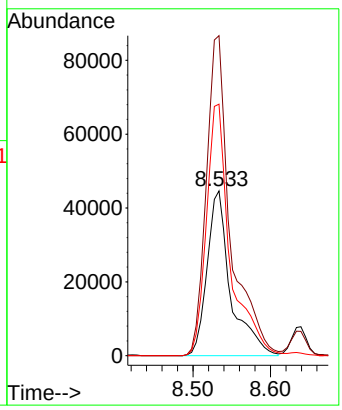


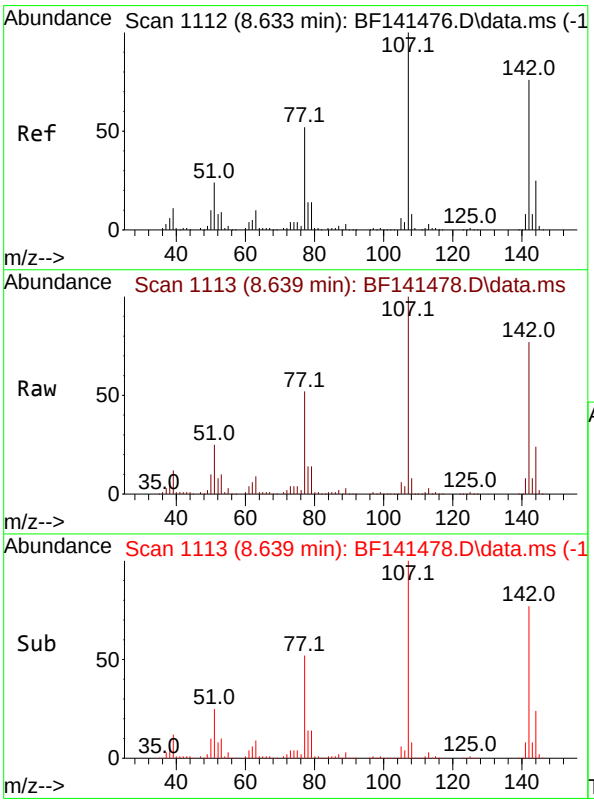
#35
Caprolactam
Concen: 61.291 ng
RT: 8.533 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 94415

Ion	Ratio	Lower	Upper
113	100		
55	194.1	180.8	220.8
56	152.5	133.6	173.6

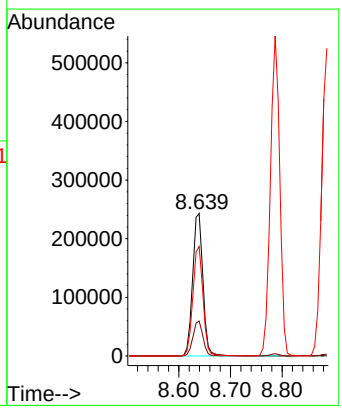


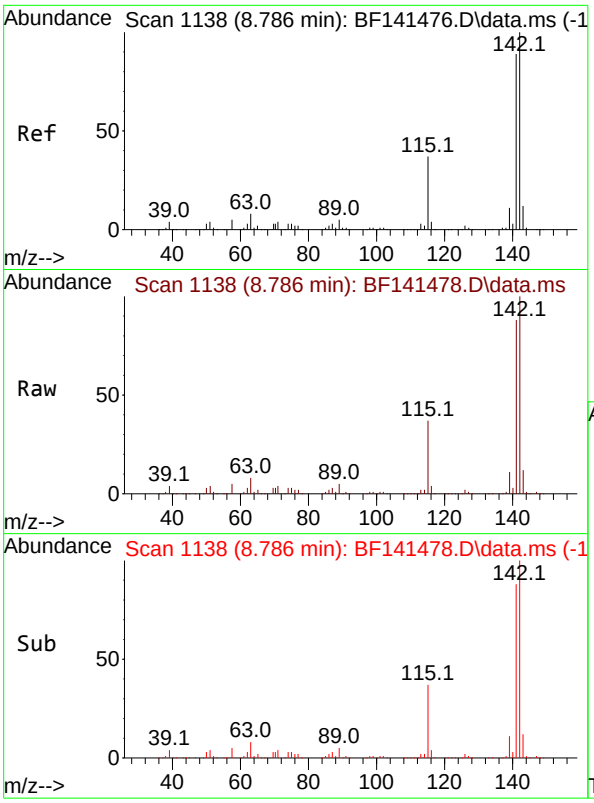


#36
4-Chloro-3-methylphenol
Concen: 59.935 ng
RT: 8.639 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:107 Resp: 335897

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.7	29.5
142	76.8	60.8	91.2



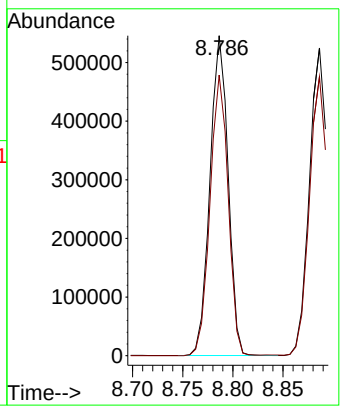


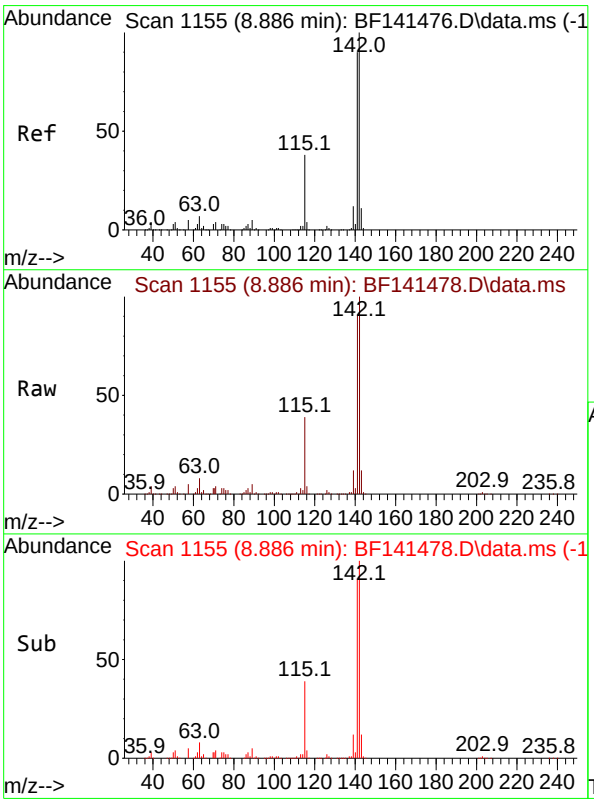
#37
2-Methylnaphthalene
Concen: 58.941 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 688021

Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.2	106.8

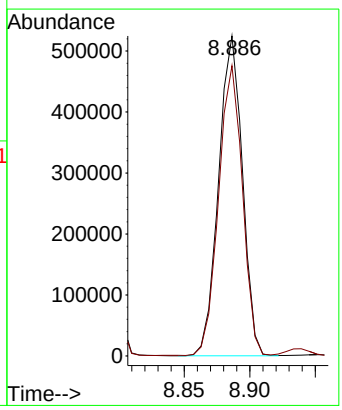


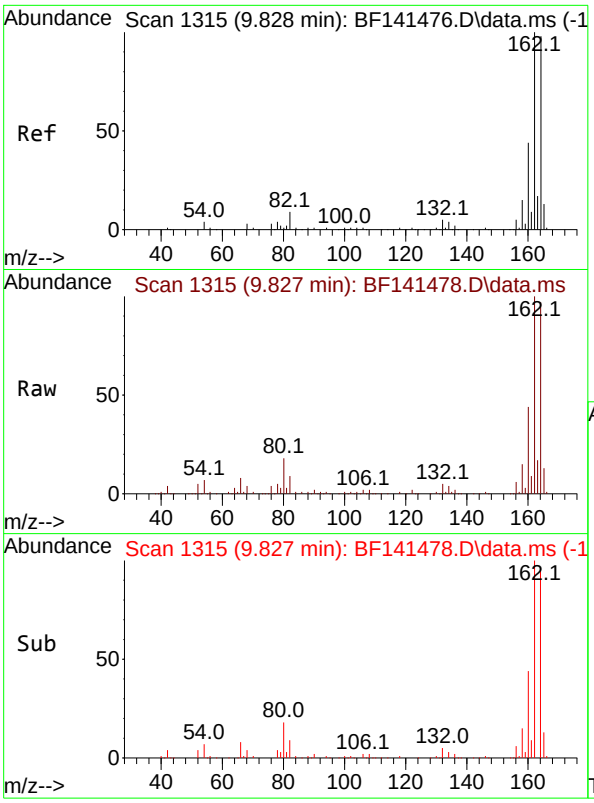


#38
1-Methylnaphthalene
Concen: 58.522 ng
RT: 8.886 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:142 Resp: 661628

Ion	Ratio	Lower	Upper
142	100		
141	90.7	72.1	108.1



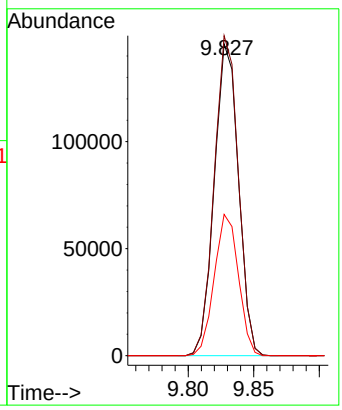


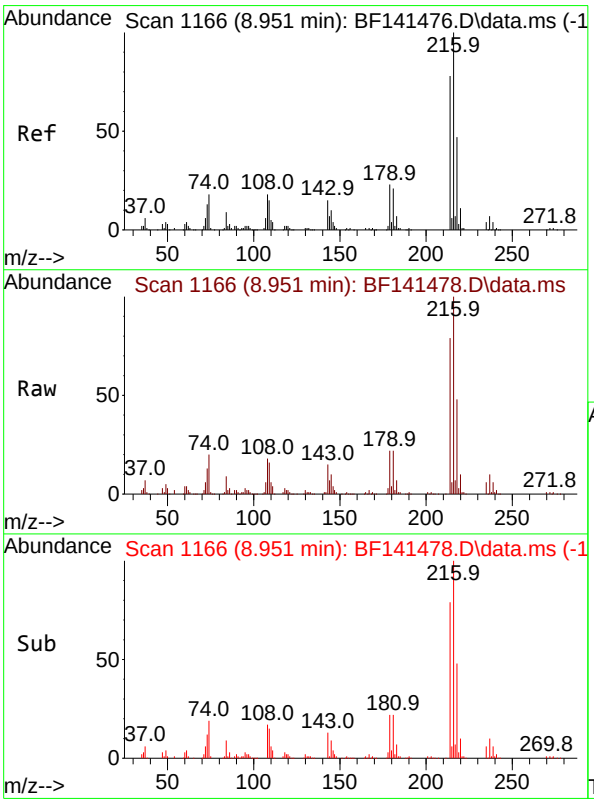
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 186729

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.3	121.9
160	45.3	35.9	53.9

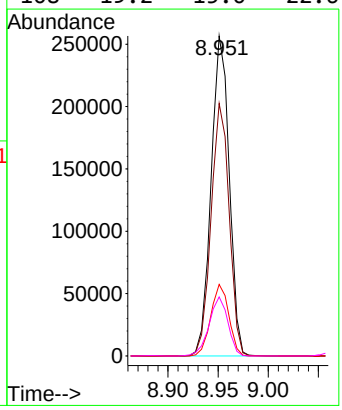


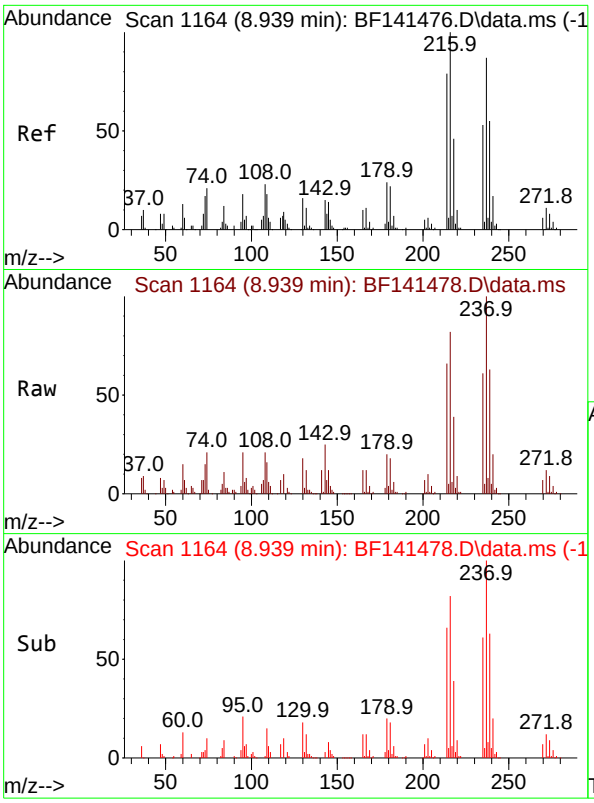


#40
1,2,4,5-Tetrachlorobenzene
Concen: 59.560 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:216 Resp: 321763

Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.3	93.5
179	22.3	18.0	27.0
108	19.2	15.0	22.6



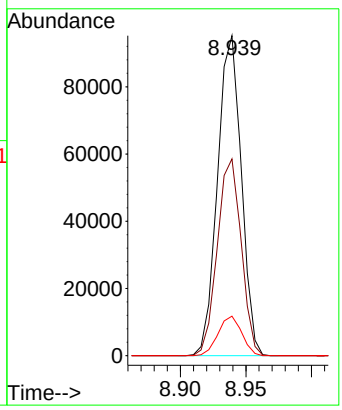


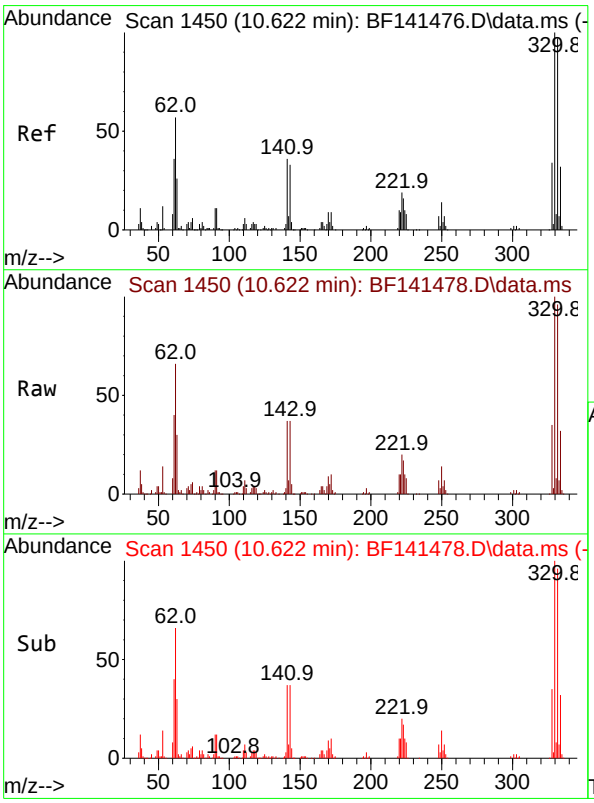
#41
Hexachlorocyclopentadiene
Concen: 66.819 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 120063

Ion	Ratio	Lower	Upper
237	100		
235	61.5	41.4	81.4
272	12.4	0.0	32.4

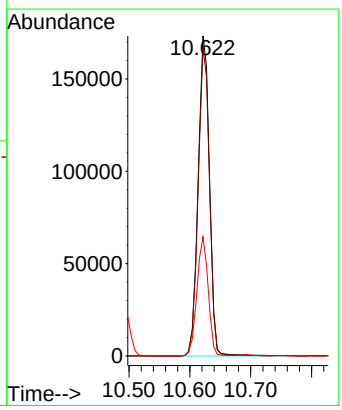


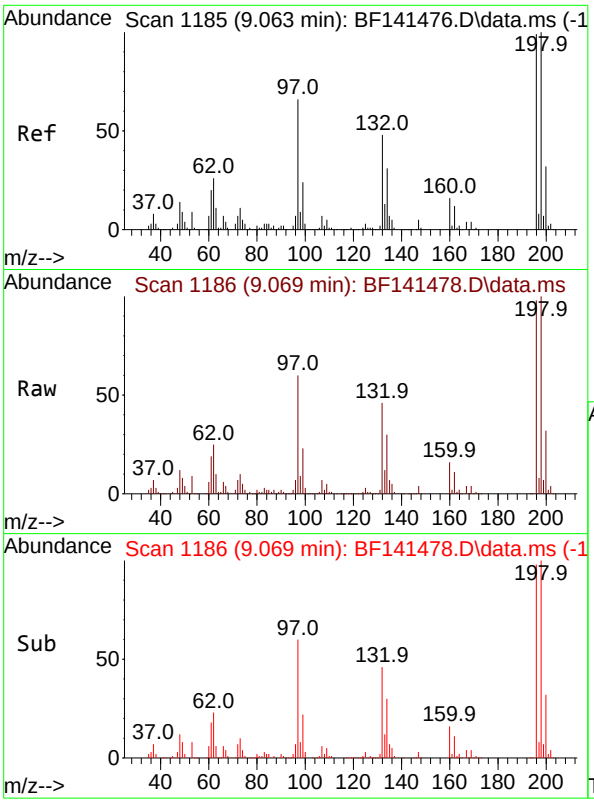


#42
2,4,6-Tribromophenol
Concen: 119.976 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:330 Resp: 225049

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.5	117.7
141	36.9	31.0	46.4



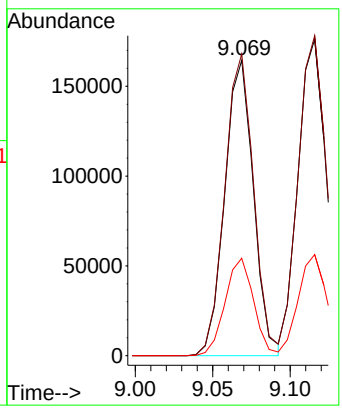


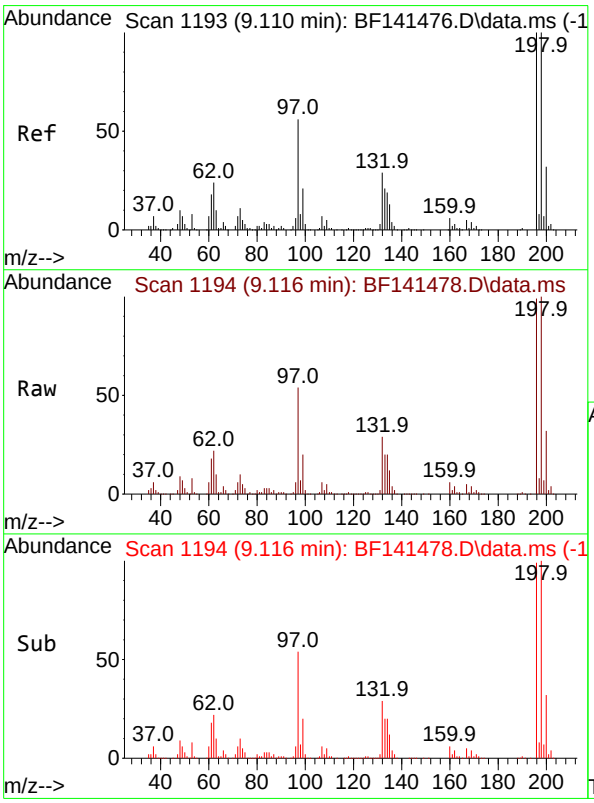
#43
2,4,6-Trichlorophenol
Concen: 60.632 ng
RT: 9.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 211702

Ion	Ratio	Lower	Upper
196	100		
198	102.2	80.6	121.0
200	33.0	25.5	38.3

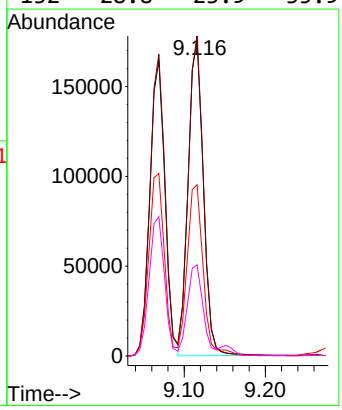


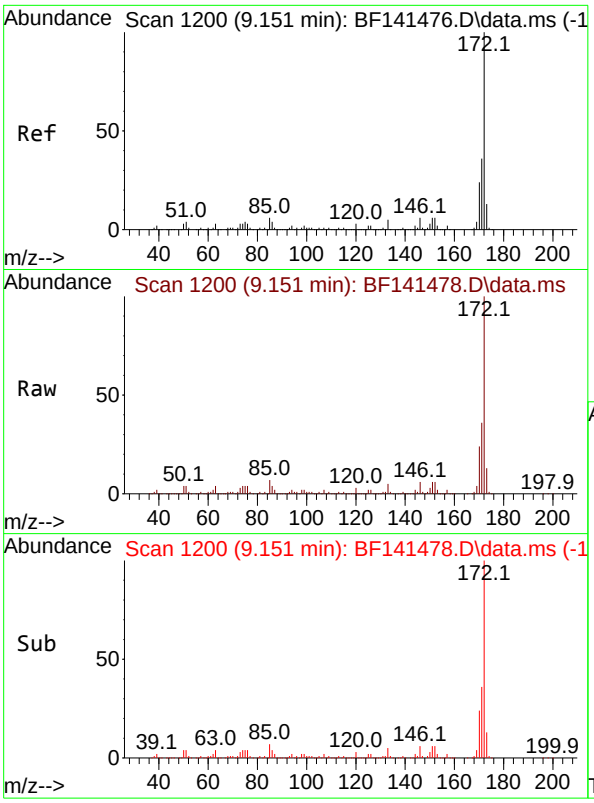


#44
2,4,5-Trichlorophenol
Concen: 60.519 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:196 Resp: 229006

Ion	Ratio	Lower	Upper
196	100		
198	101.1	79.8	119.8
97	54.1	44.8	67.2
132	28.8	23.9	35.9



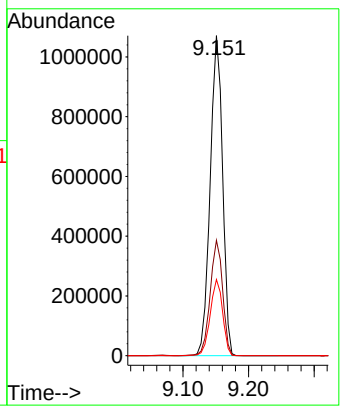


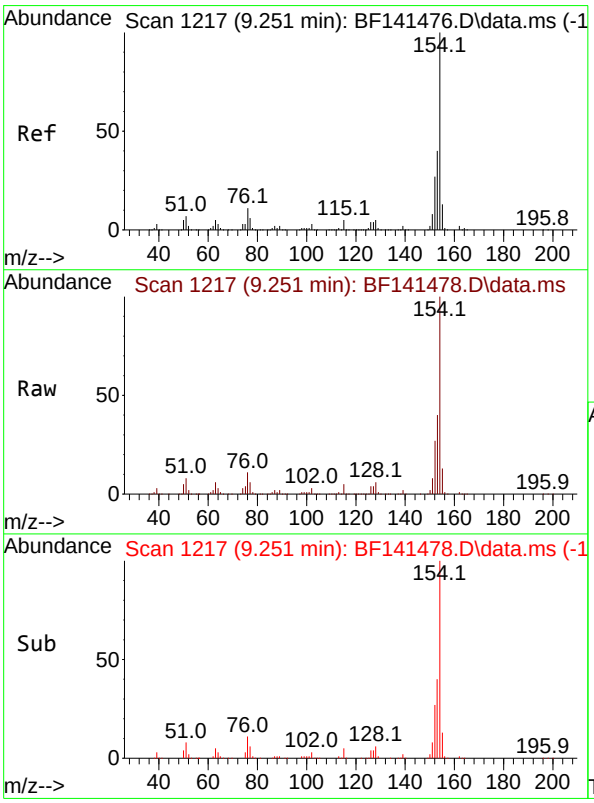
#45
2-Fluorobiphenyl
Concen: 116.358 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 1410277

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.7	43.1
170	23.8	18.9	28.3

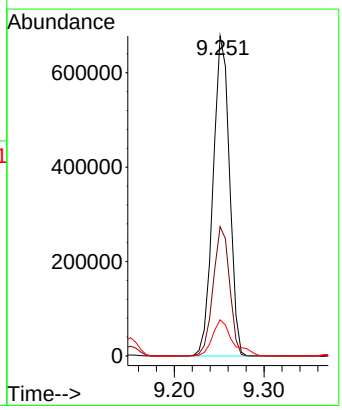


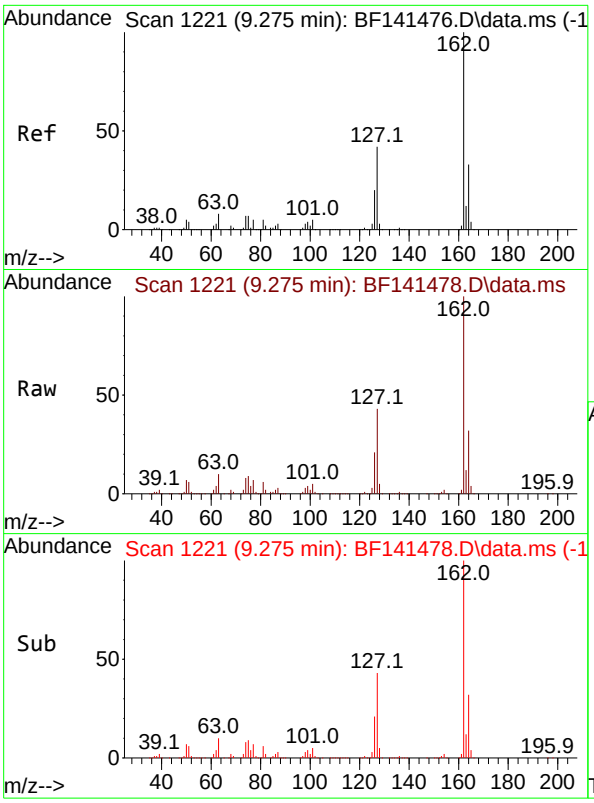


#46
1,1'-Biphenyl
Concen: 59.479 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:154 Resp: 861067

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.3	0.0	30.8



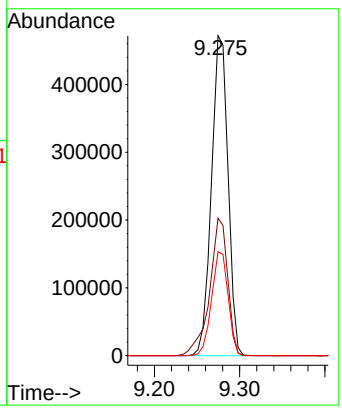


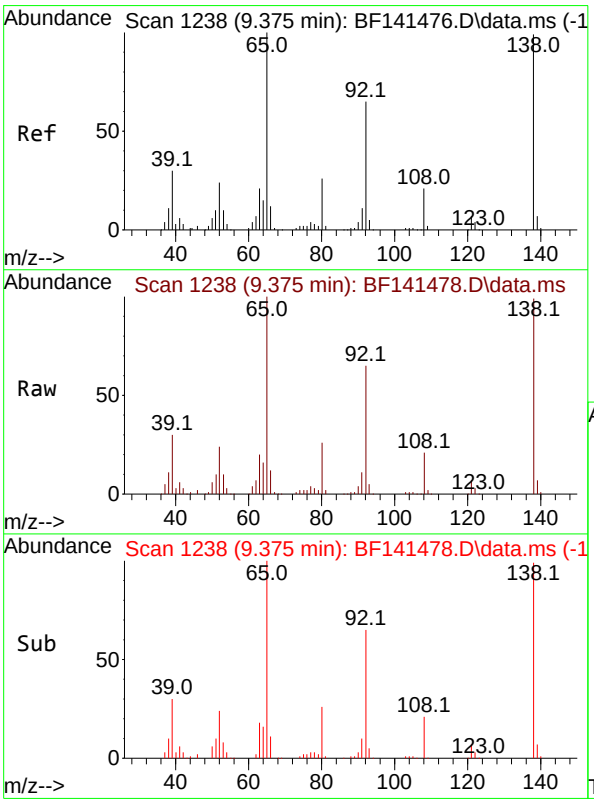
#47
2-Chloronaphthalene
Concen: 59.459 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 636511

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.1	51.1
164	32.5	26.3	39.5

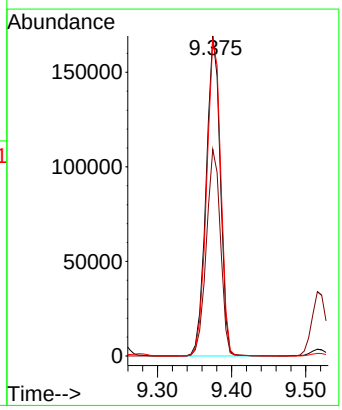


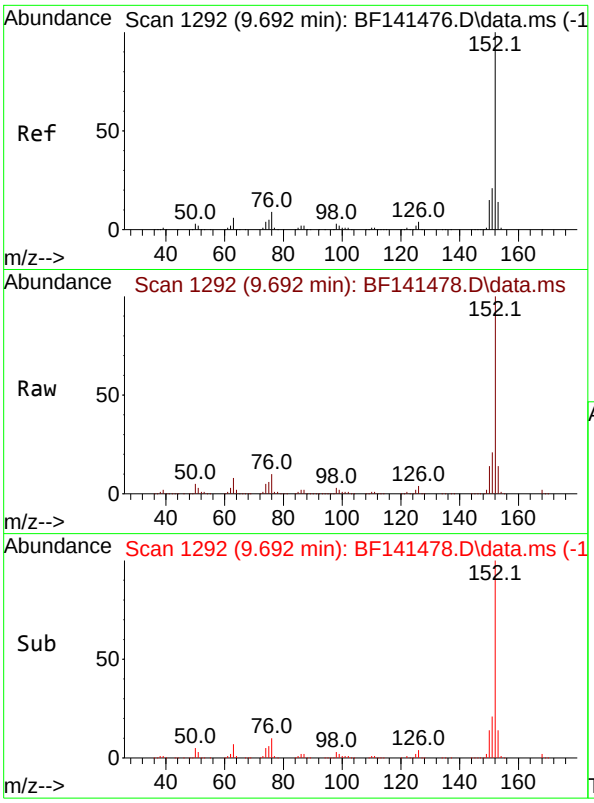


#48
2-Nitroaniline
Concen: 62.547 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion: 65 Resp: 224709

Ion	Ratio	Lower	Upper
65	100		
92	64.6	52.2	78.2
138	98.7	79.5	119.3



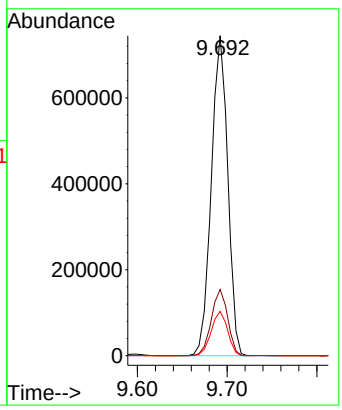


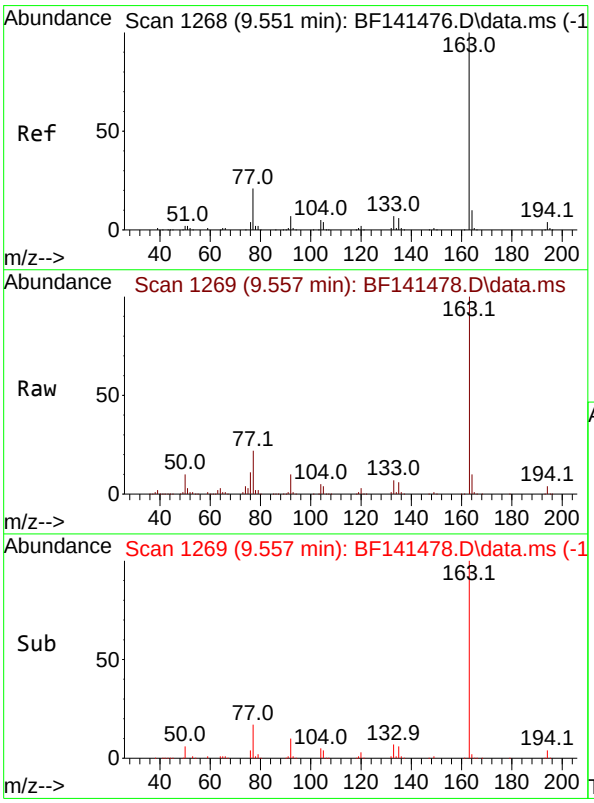
#49
Acenaphthylene
Concen: 59.436 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 946382

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.4	24.6
153	13.8	10.9	16.3

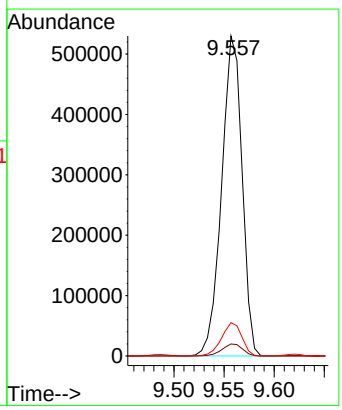


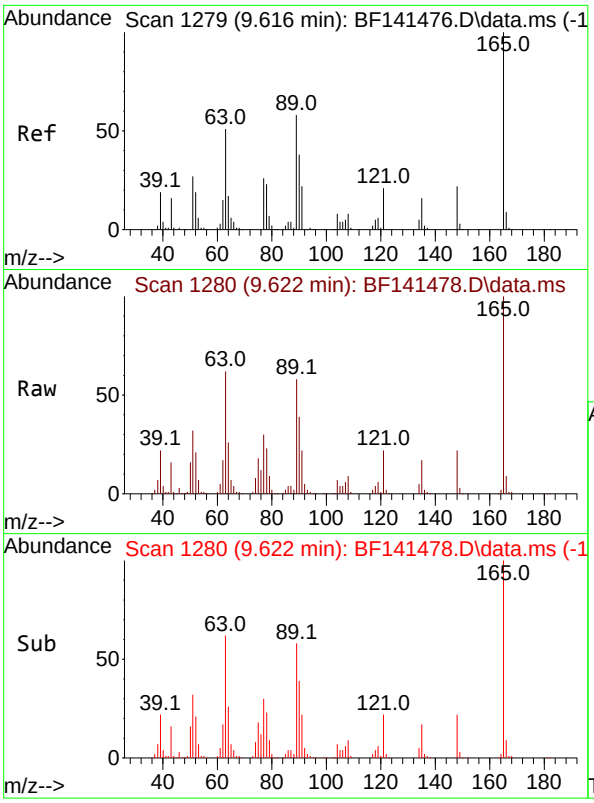


#50
Dimethylphthalate
Concen: 59.253 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:163 Resp: 751128

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.4	7.9	11.9



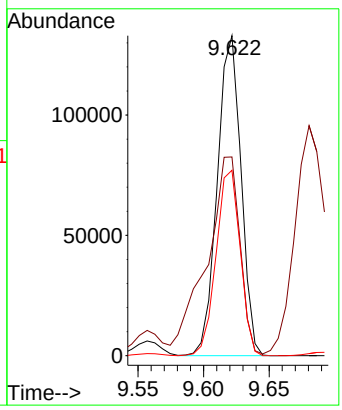


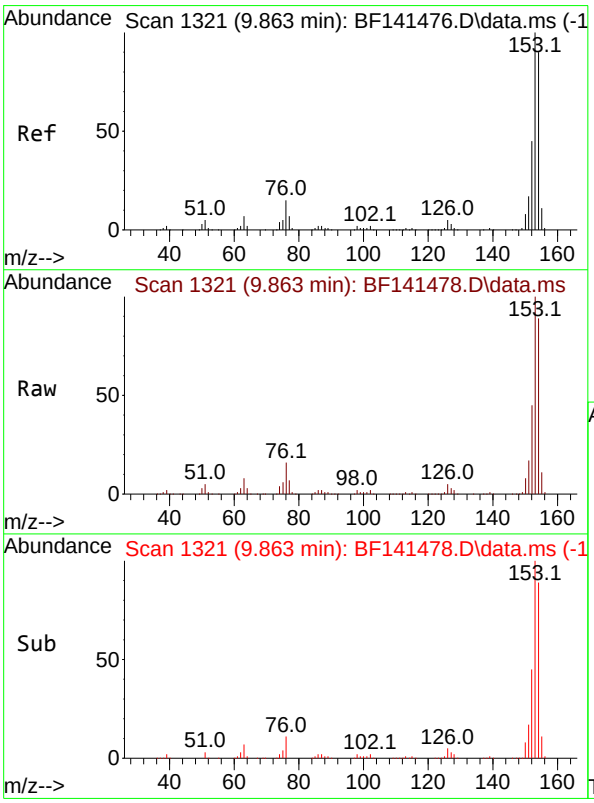
#51
2,6-Dinitrotoluene
Concen: 60.403 ng
RT: 9.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 167387

Ion	Ratio	Lower	Upper
165	100		
63	62.1	49.4	74.0
89	58.0	46.5	69.7

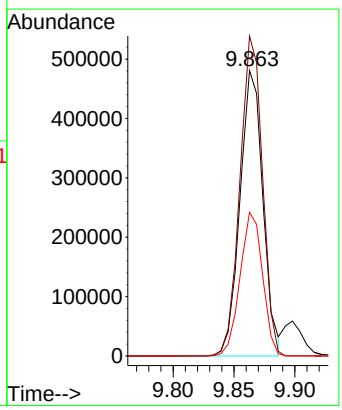


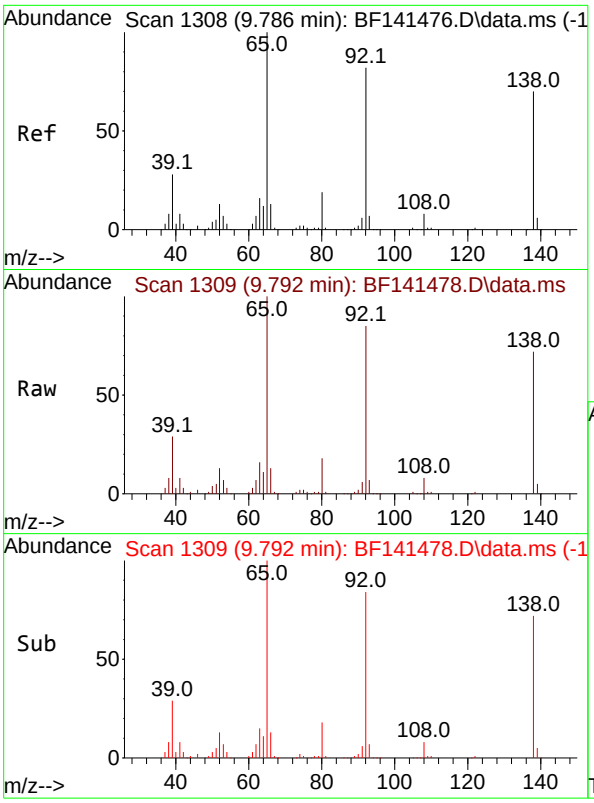


#52
Acenaphthene
Concen: 58.974 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:154 Resp: 631289

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.2	133.8
152	50.3	39.8	59.8



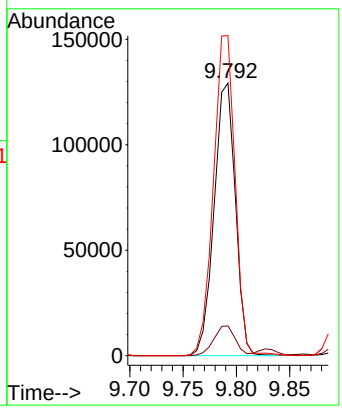


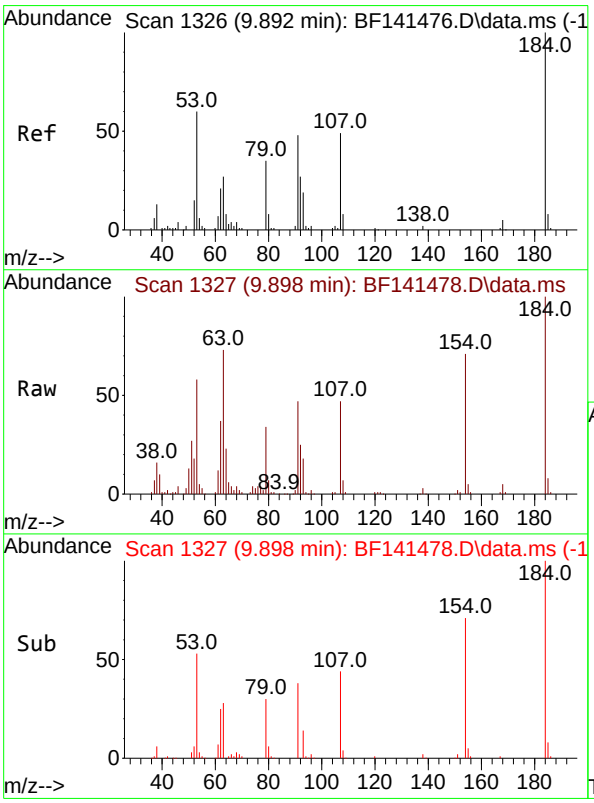
#53
3-Nitroaniline
Concen: 60.237 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 179664

Ion	Ratio	Lower	Upper
138	100		
108	10.9	9.0	13.4
92	117.5	93.7	140.5

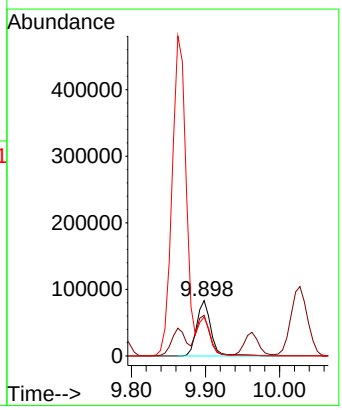


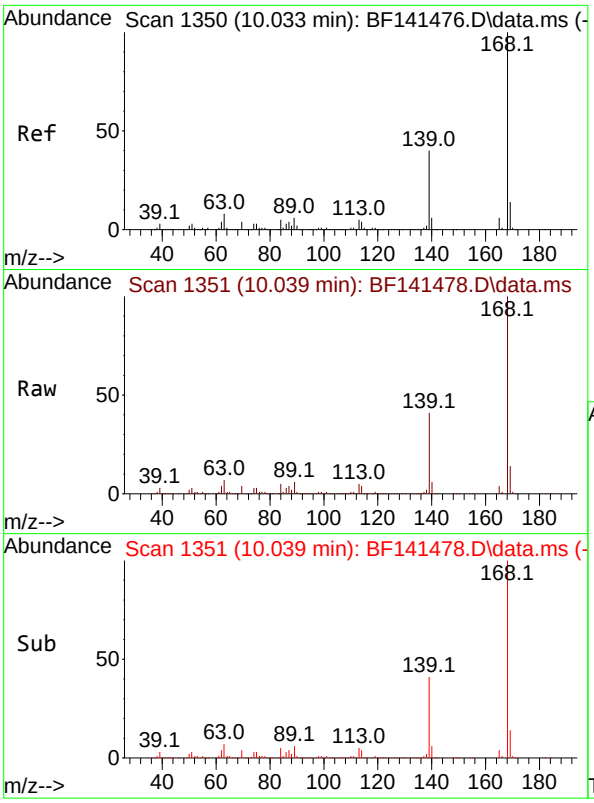


#54
2,4-Dinitrophenol
Concen: 67.432 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:184 Resp: 111060

Ion	Ratio	Lower	Upper
184	100		
63	73.3	61.0	91.6
154	70.6	59.9	89.9



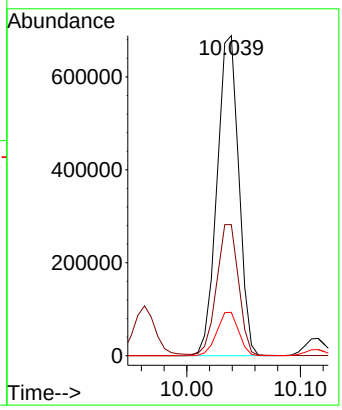


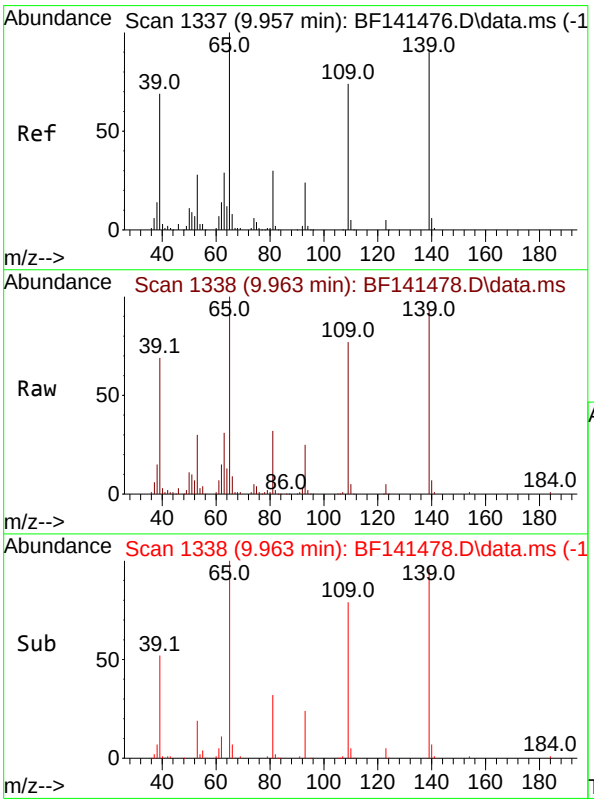
#55
Dibenzofuran
Concen: 58.242 ng
RT: 10.039 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 915117

Ion	Ratio	Lower	Upper
168	100		
139	41.0	32.7	49.1
169	13.5	10.8	16.2

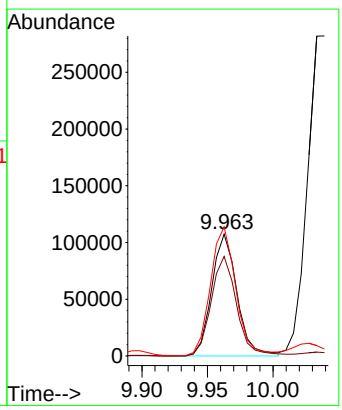


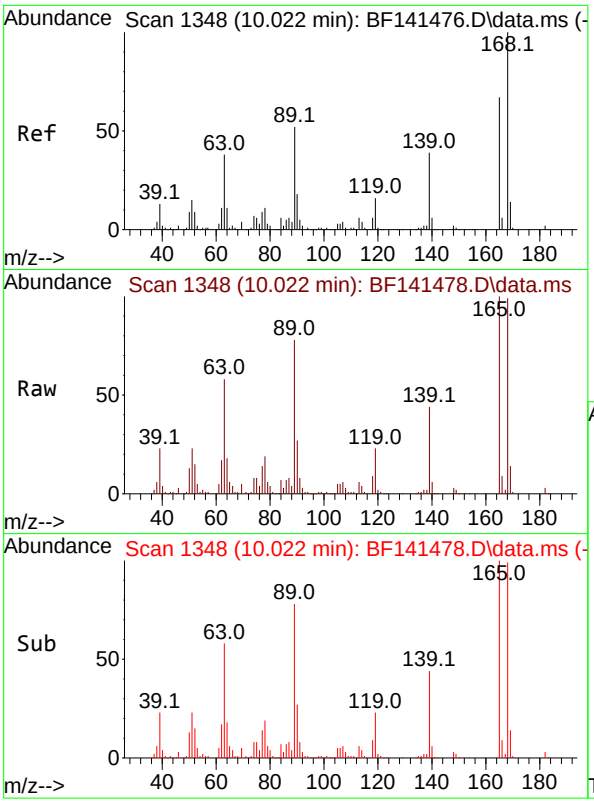


#56
4-Nitrophenol
Concen: 65.035 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:139 Resp: 143994

Ion	Ratio	Lower	Upper
139	100		
109	81.7	62.0	102.0
65	106.0	91.2	131.2



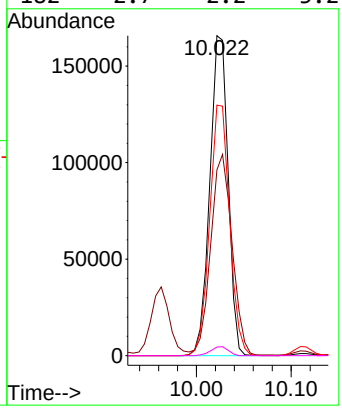


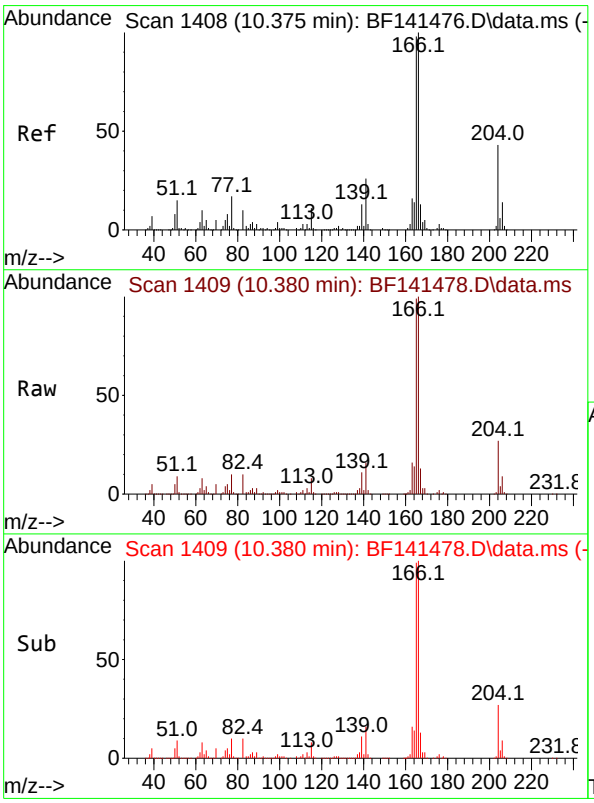
#57
2,4-Dinitrotoluene
Concen: 60.202 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 222091

Ion	Ratio	Lower	Upper
165	100		
63	58.1	46.4	69.6
89	78.3	61.8	92.6
182	2.7	2.2	3.2

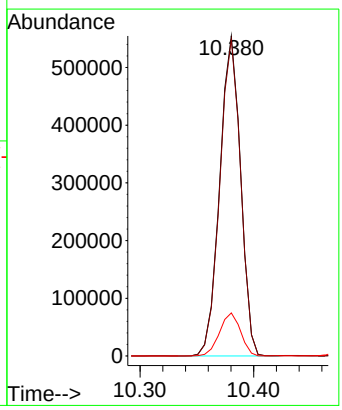


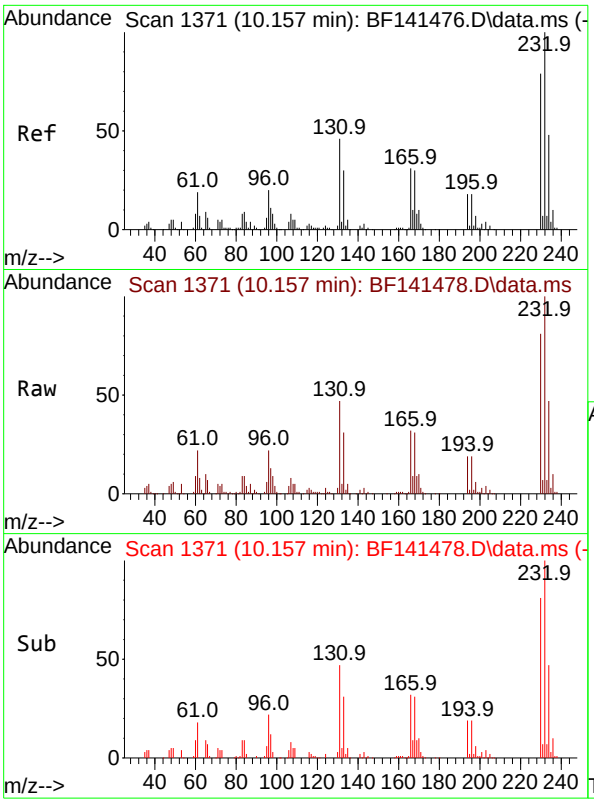


#58
Fluorene
Concen: 58.225 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:166 Resp: 707371

Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.2	117.2
167	13.5	10.7	16.1



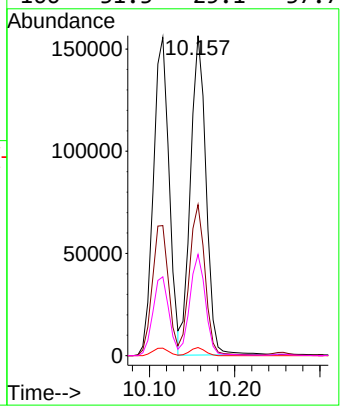


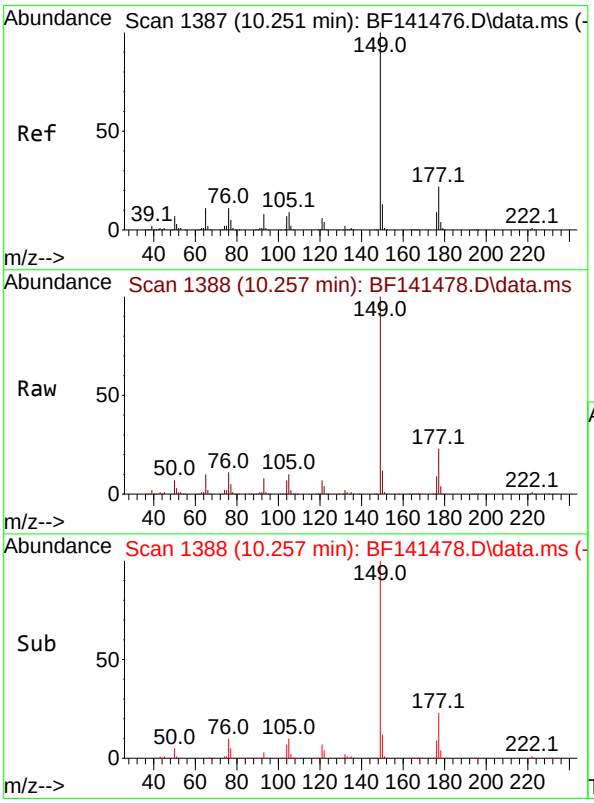
#59
2,3,4,6-Tetrachlorophenol
Concen: 60.972 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 198636

Ion	Ratio	Lower	Upper
232	100		
131	47.8	39.2	58.8
130	2.5	2.1	3.1
166	31.3	25.1	37.7

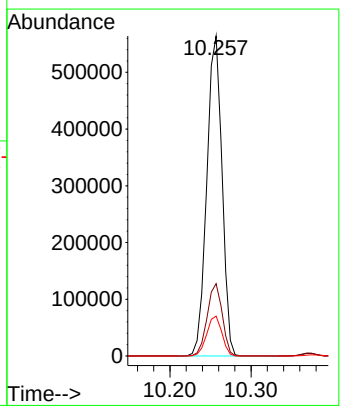


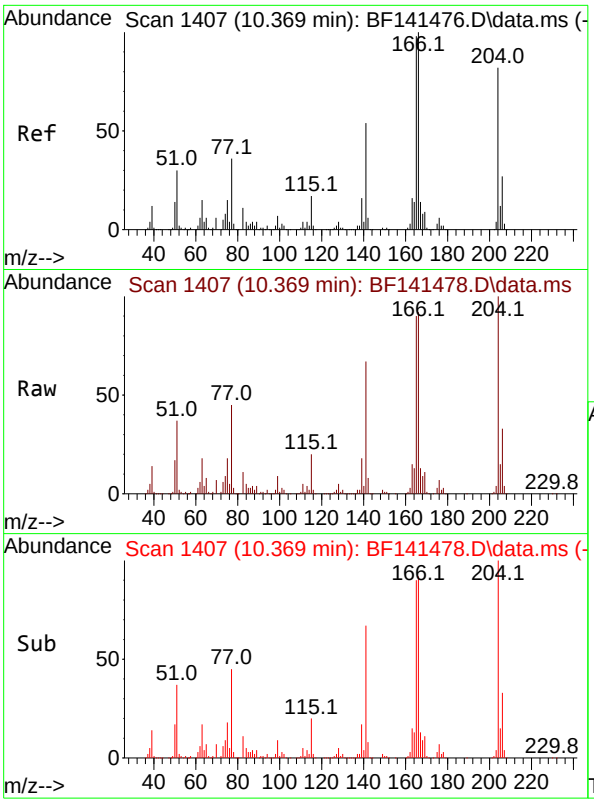


#60
Diethylphthalate
Concen: 58.755 ng
RT: 10.257 min Scan# 1388
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 732804

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.6
150	12.5	10.1	15.1



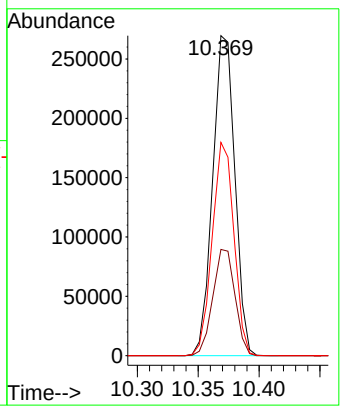


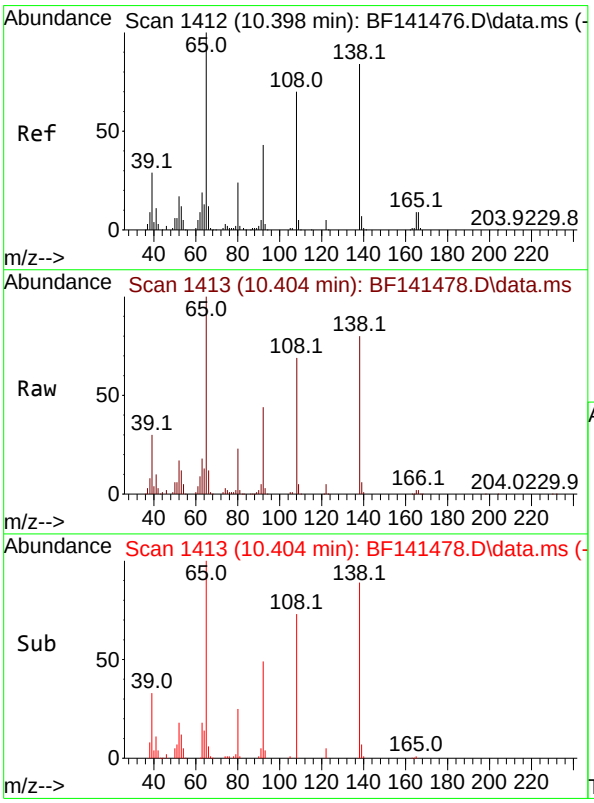
#61
4-Chlorophenyl-phenylether
Concen: 58.570 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 342324

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	40.0
141	66.7	51.9	77.9

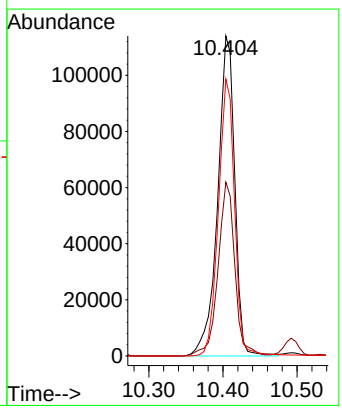


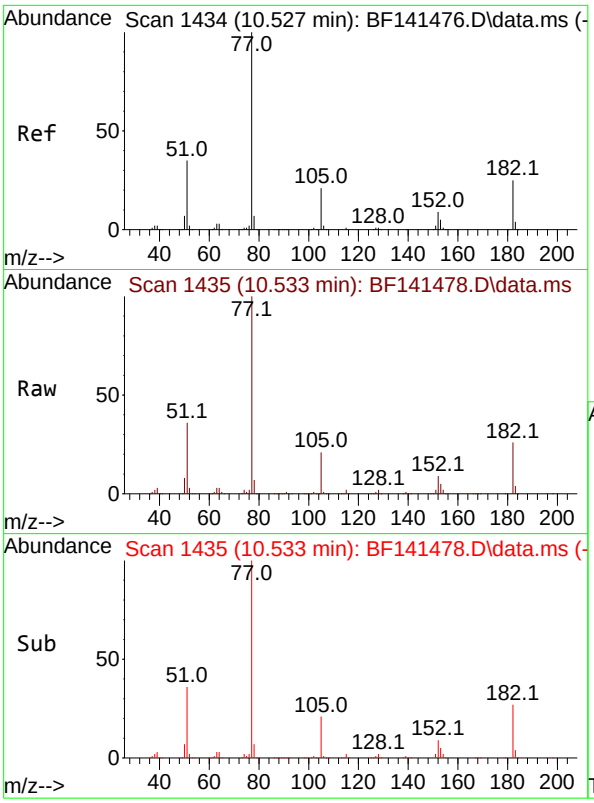


#62
4-Nitroaniline
Concen: 60.406 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:138 Resp: 182946

Ion	Ratio	Lower	Upper
138	100		
92	54.3	31.3	71.3
108	86.6	63.7	103.7



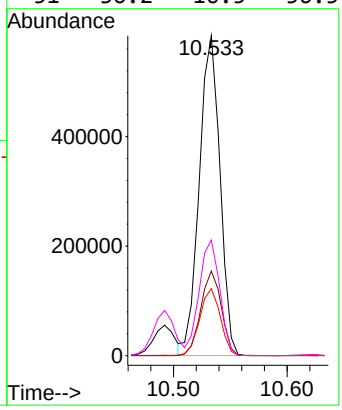


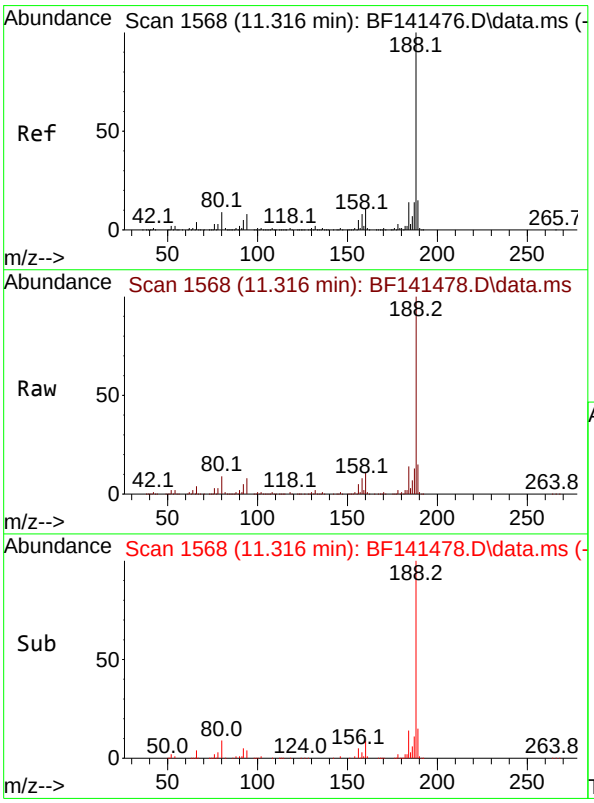
#63
Azobenzene
Concen: 59.629 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 739338

Ion	Ratio	Lower	Upper
77	100		
182	26.5	4.7	44.7
105	21.0	0.4	40.4
51	36.2	16.5	56.5

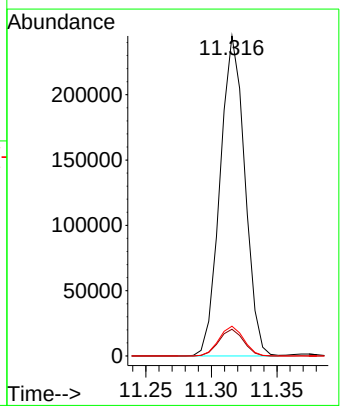


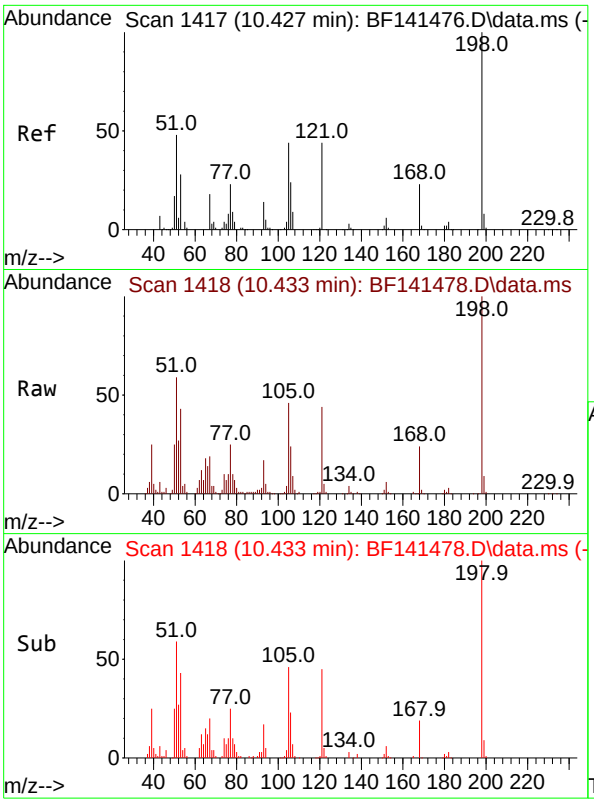


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:188 Resp: 321893

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.6	10.0
80	9.3	7.3	10.9



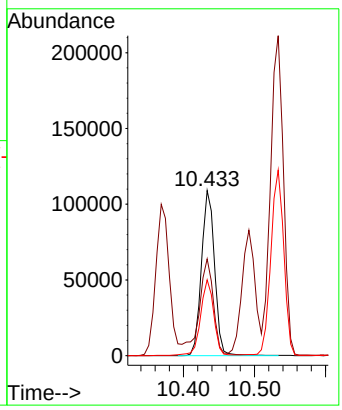


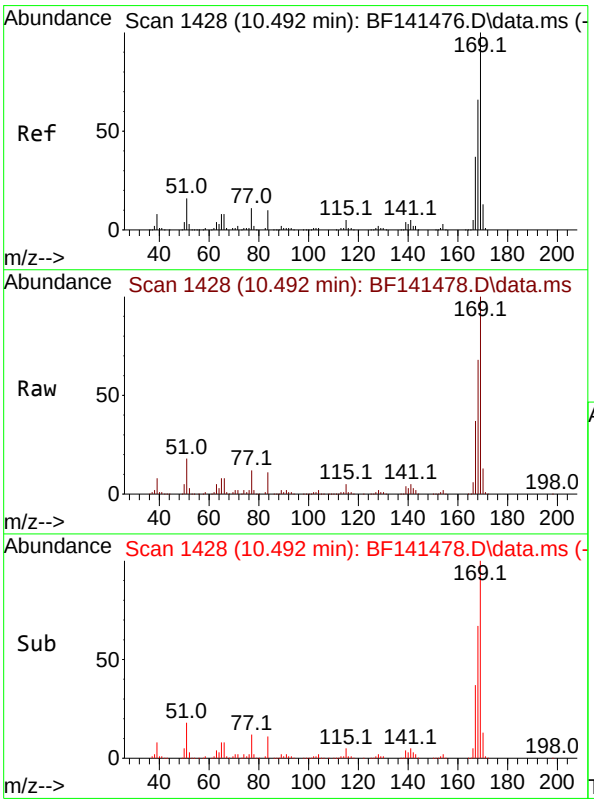
#65
4,6-Dinitro-2-methylphenol
Concen: 62.884 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 140610

Ion	Ratio	Lower	Upper
198	100		
51	58.6	37.4	77.4
105	46.0	25.2	65.2

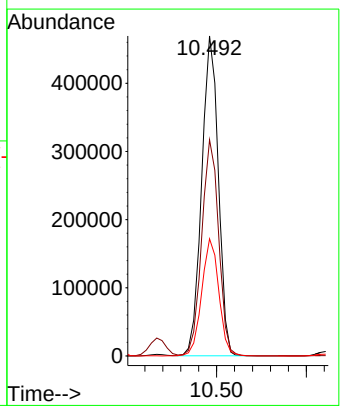


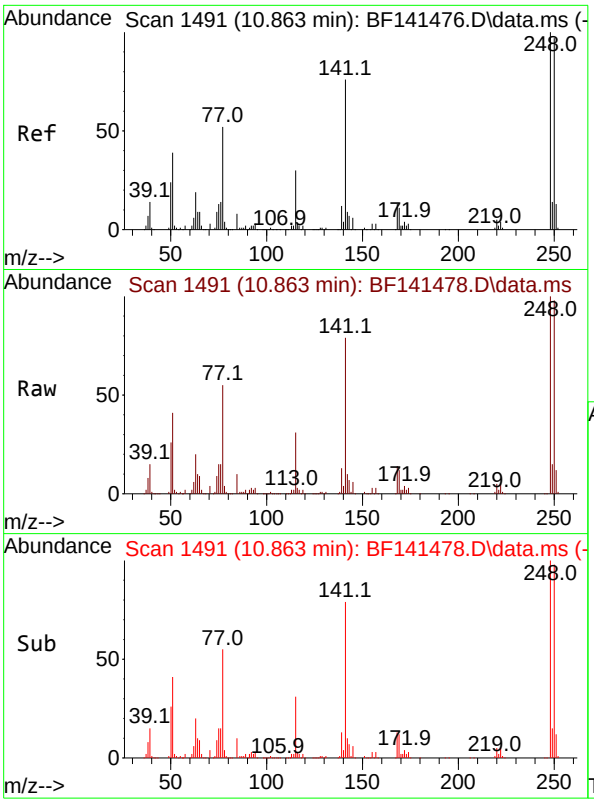


#66
n-Nitrosodiphenylamine
Concen: 58.609 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:169 Resp: 603914

Ion	Ratio	Lower	Upper
169	100		
168	67.6	53.3	79.9
167	36.6	29.4	44.2



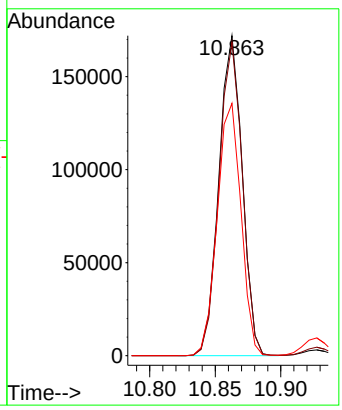


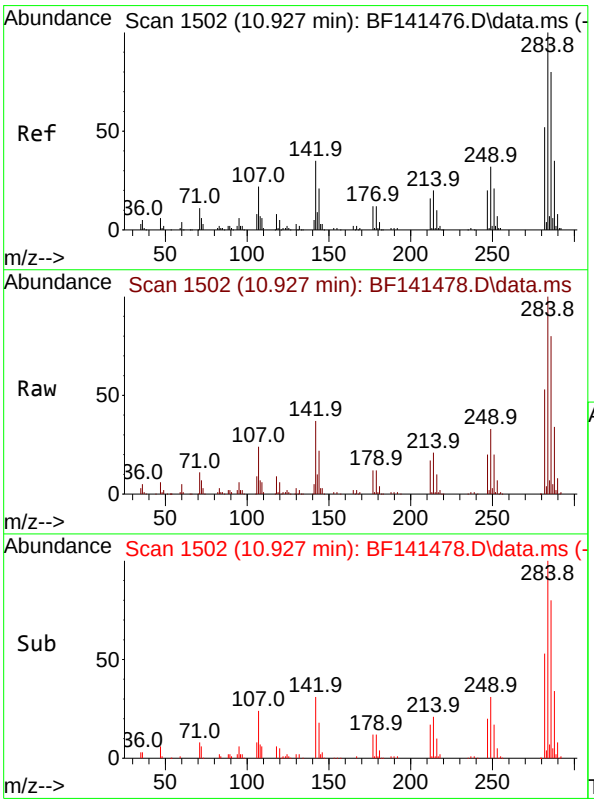
#67
4-Bromophenyl-phenylether
Concen: 59.314 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 213385

Ion	Ratio	Lower	Upper
248	100		
250	97.9	77.8	116.6
141	78.9	60.6	90.8

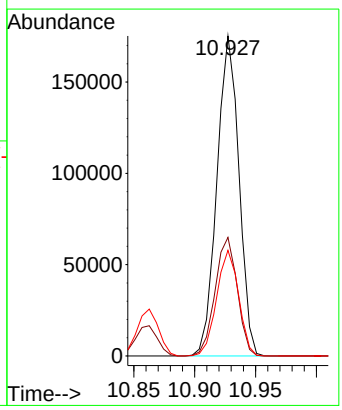


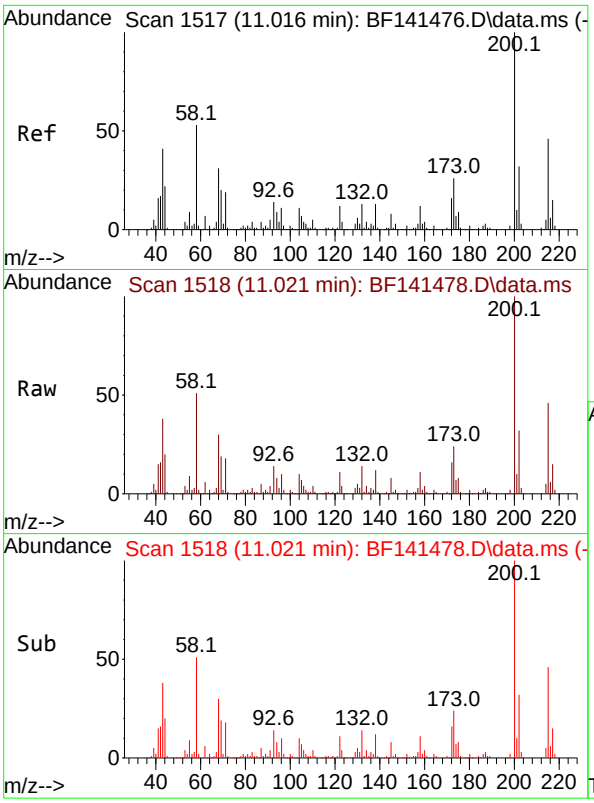


#68
Hexachlorobenzene
Concen: 59.552 ng
RT: 10.927 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:284 Resp: 220611

Ion	Ratio	Lower	Upper
284	100		
142	37.0	28.0	42.0
249	33.0	25.8	38.8



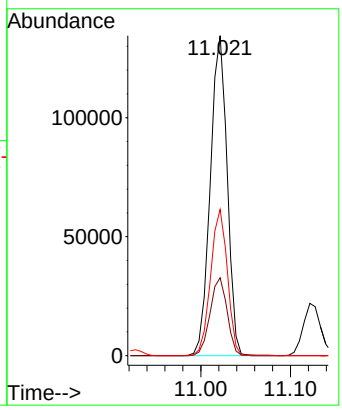


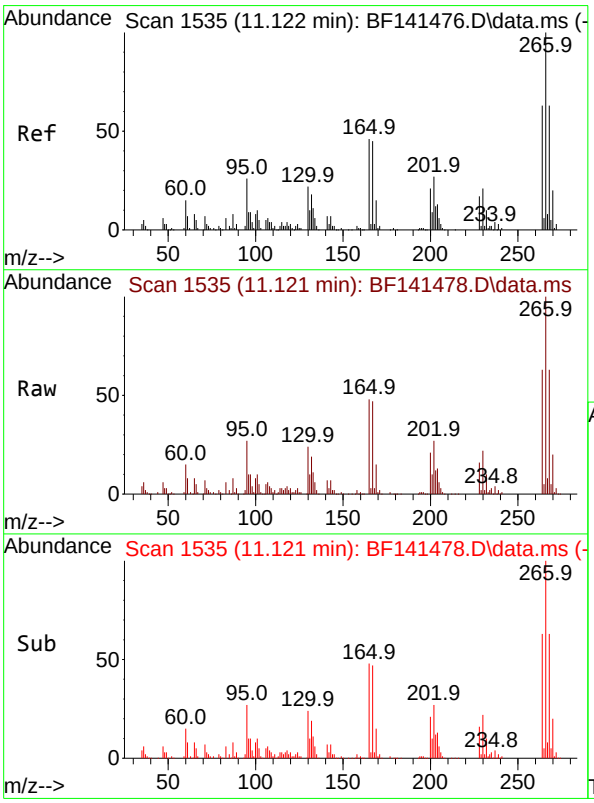
#69
Atrazine
Concen: 56.878 ng
RT: 11.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 175824

Ion	Ratio	Lower	Upper
200	100		
173	24.4	5.9	45.9
215	45.7	25.9	65.9

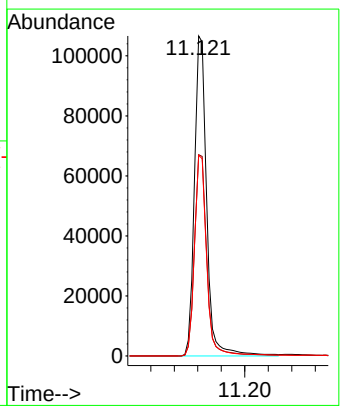


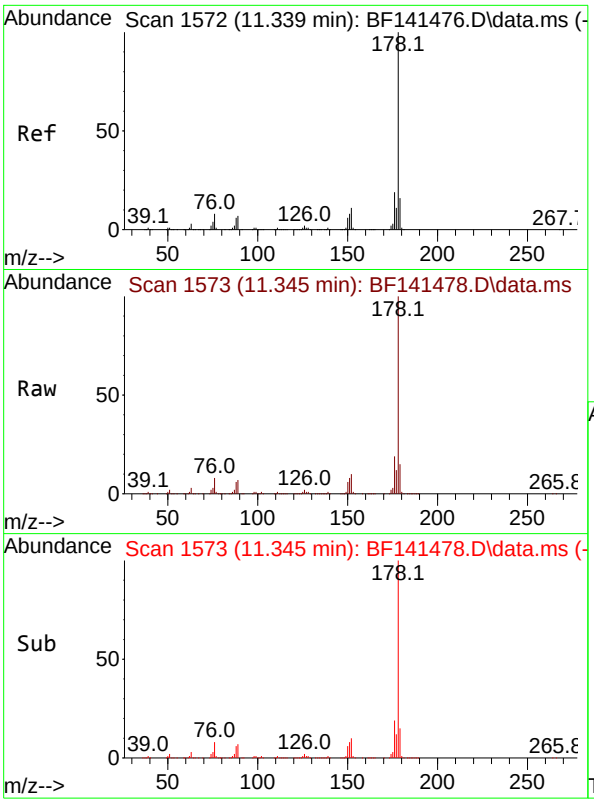


#70
Pentachlorophenol
Concen: 65.001 ng
RT: 11.121 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:266 Resp: 153971

Ion	Ratio	Lower	Upper
266	100		
268	62.9	50.1	75.1
264	62.7	50.1	75.1



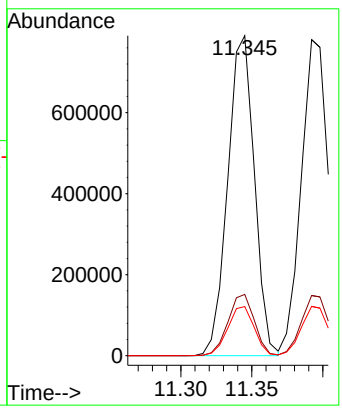


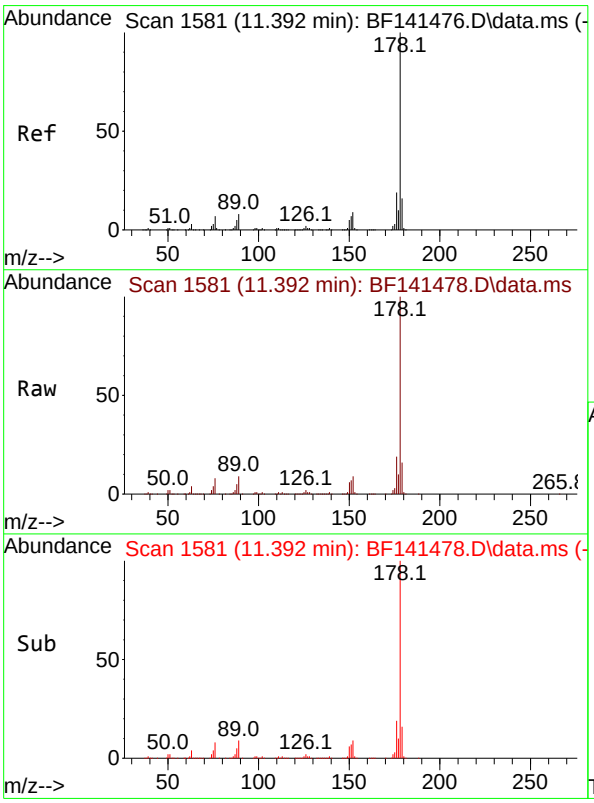
#71
Phenanthrene
Concen: 58.248 ng
RT: 11.345 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 1032075

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.4	18.6

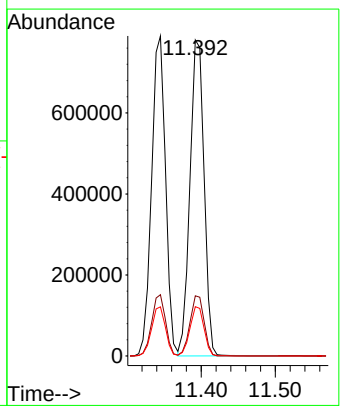


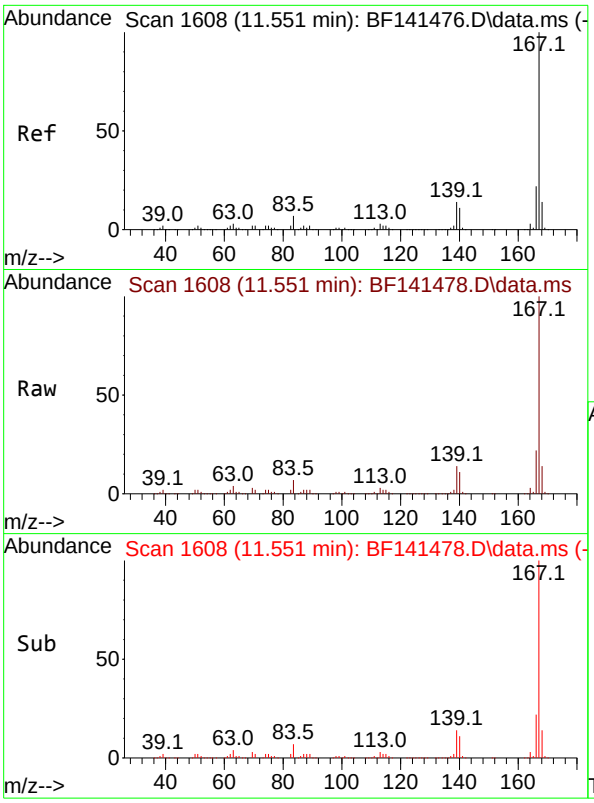


#72
Anthracene
Concen: 58.062 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:178 Resp: 1034181

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.8	22.2
179	15.6	12.4	18.6



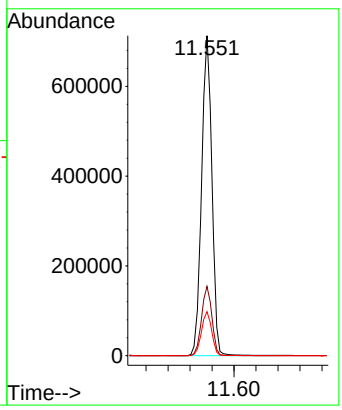


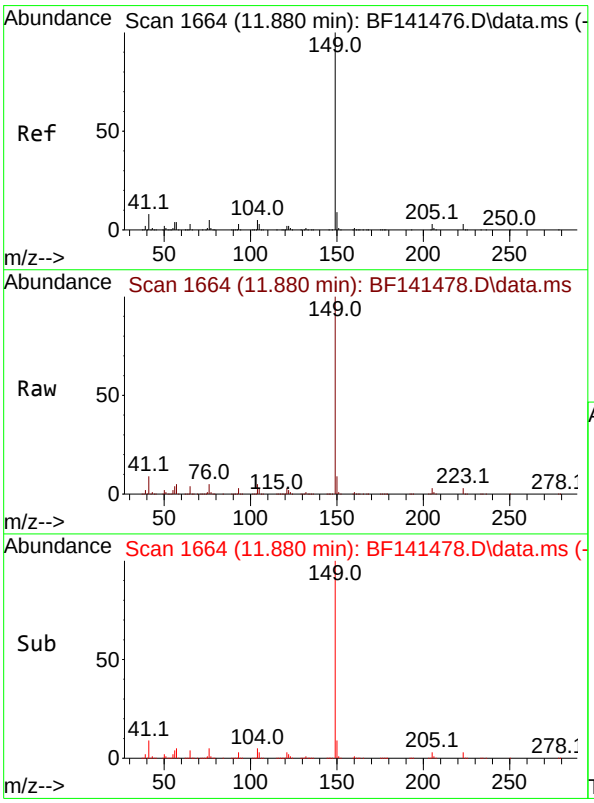
#73
Carbazole
Concen: 57.896 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 927882

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.7	10.9	16.3

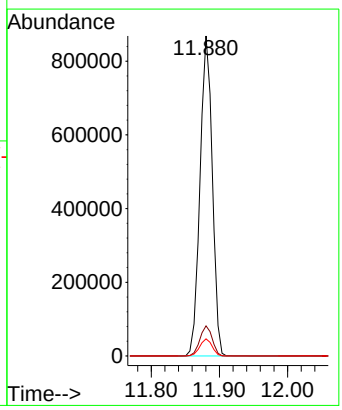


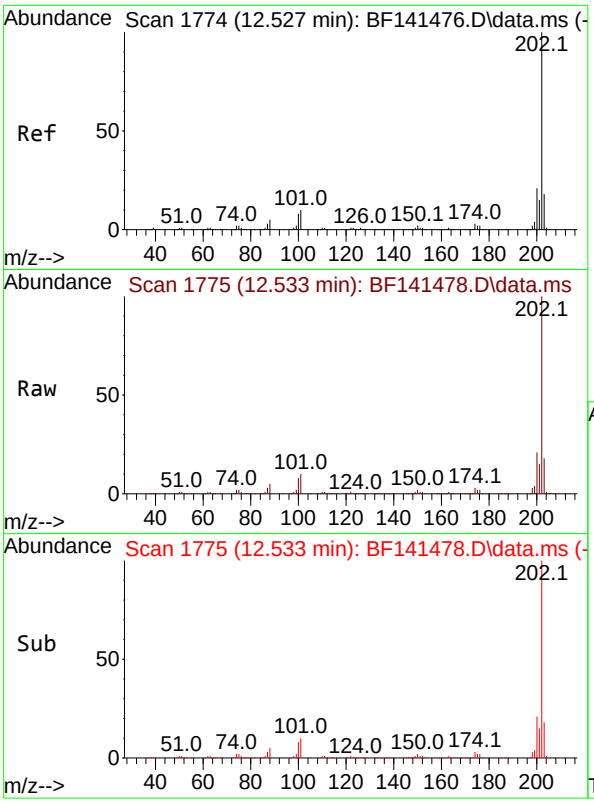


#74
Di-n-butylphthalate
Concen: 58.783 ng
RT: 11.880 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 1087815

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.4	4.2	6.2



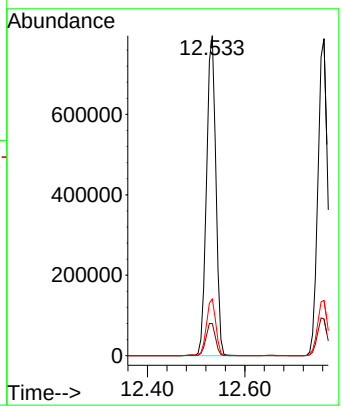


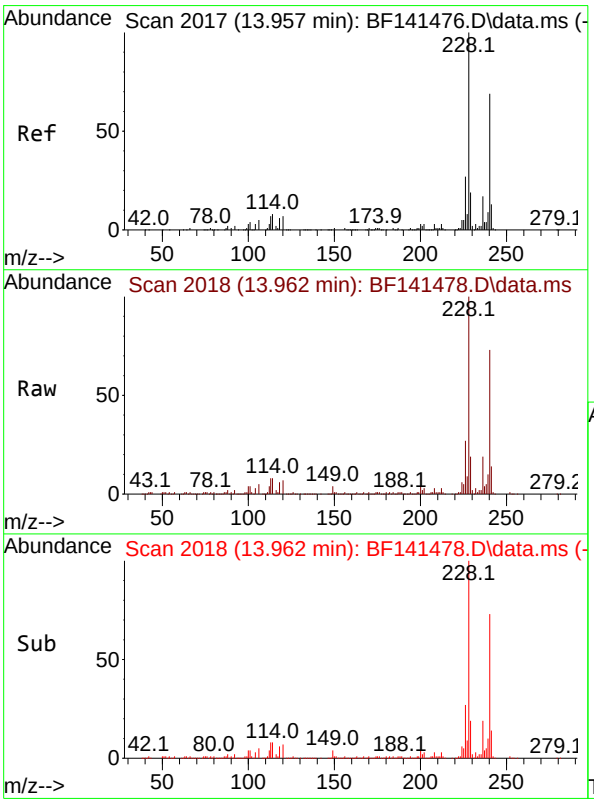
#75
Fluoranthene
Concen: 56.102 ng
RT: 12.533 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 1053887

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.7	0.0	37.6

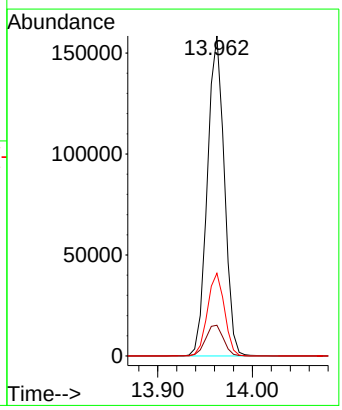


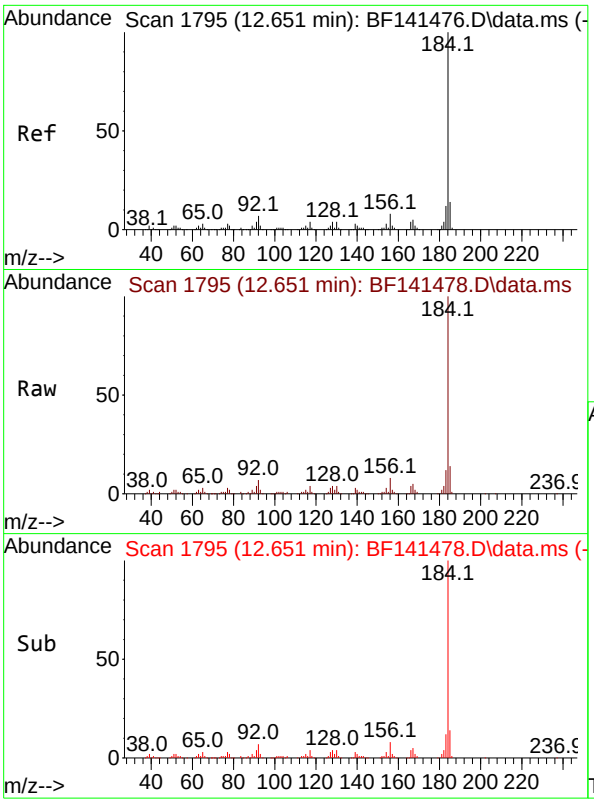


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:240 Resp: 197108

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.9	19.8	29.8



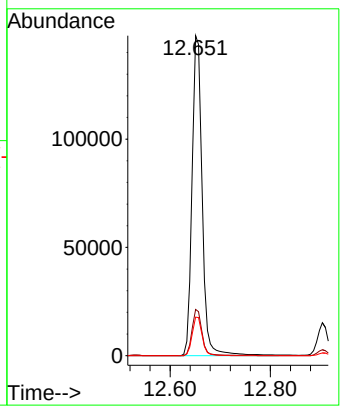


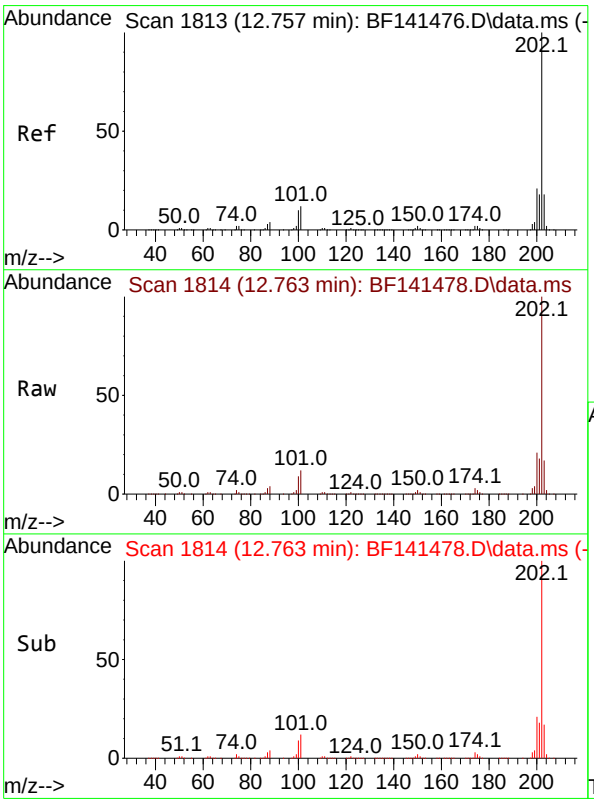
#77
Benzidine
Concen: 47.757 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 207602

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.3	16.9
183	12.0	9.3	13.9

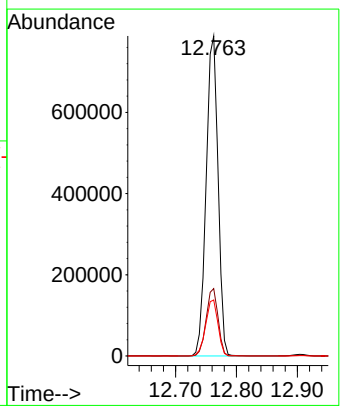


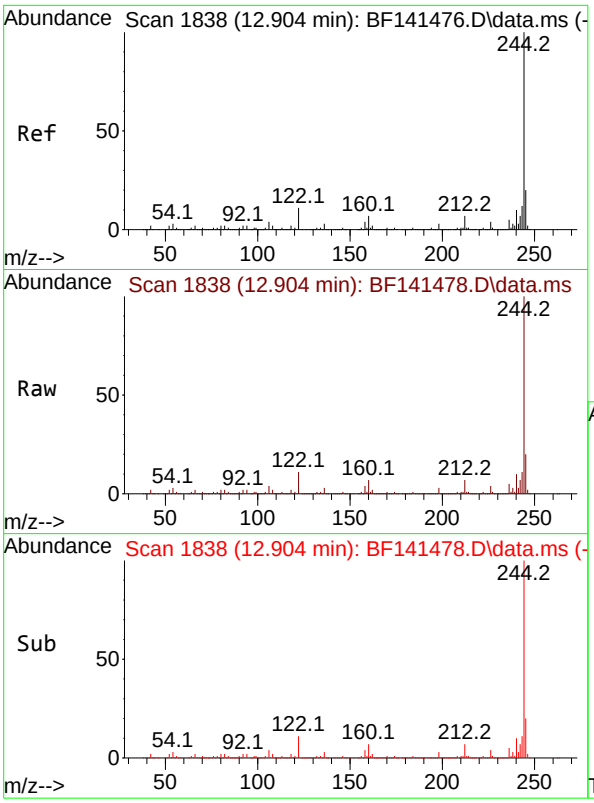


#78
Pyrene
Concen: 63.687 ng
RT: 12.763 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:202 Resp: 1068624

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.5	14.3	21.5



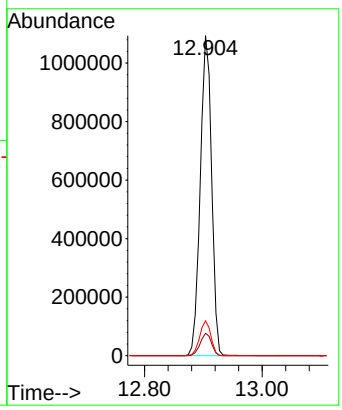


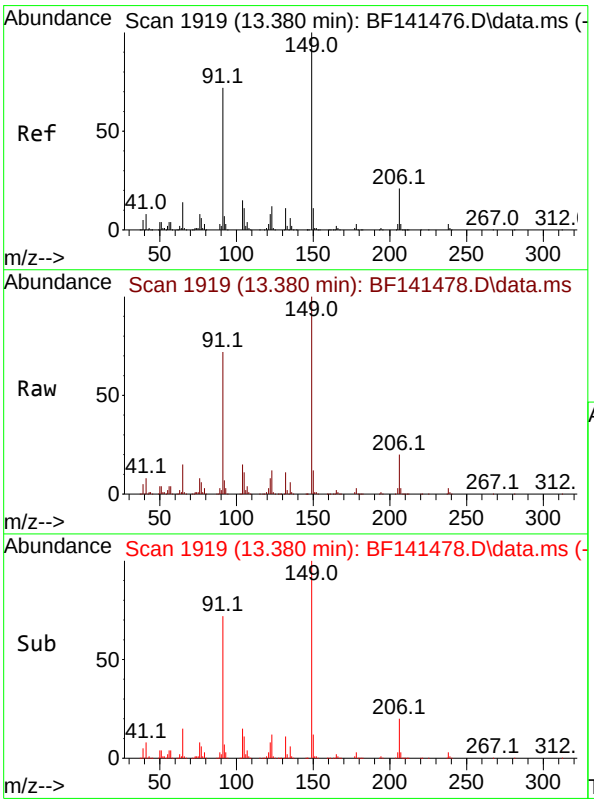
#79
Terphenyl-d14
Concen: 124.977 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 1459213

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.9	8.4	12.6

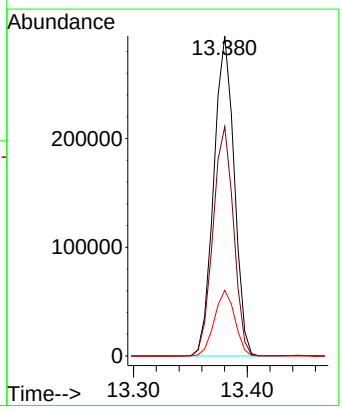


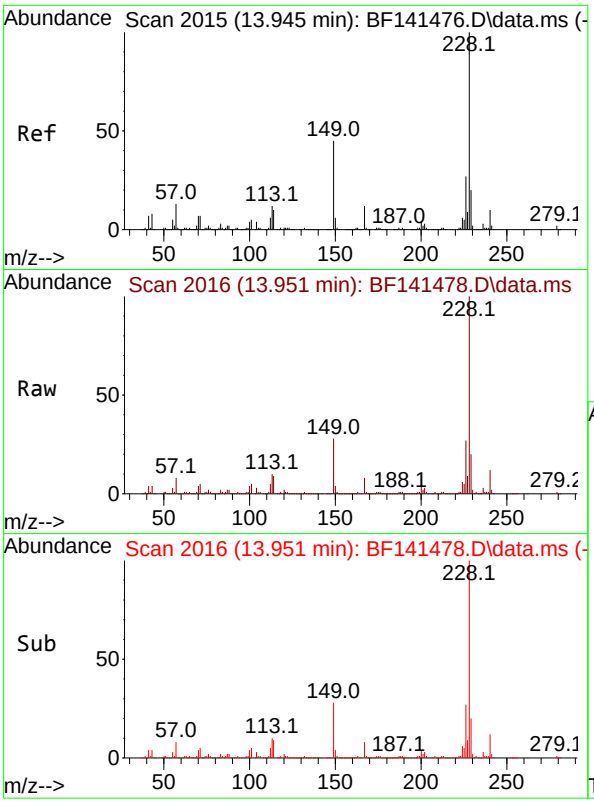


#80
Butylbenzylphthalate
Concen: 63.357 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 368219

Ion	Ratio	Lower	Upper
149	100		
91	71.7	57.8	86.8
206	20.5	16.7	25.1



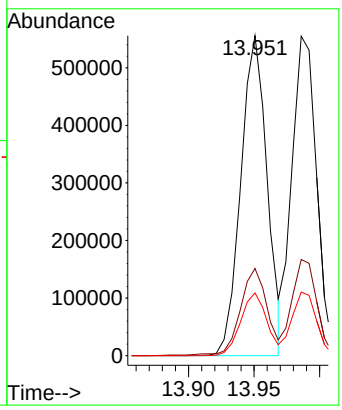


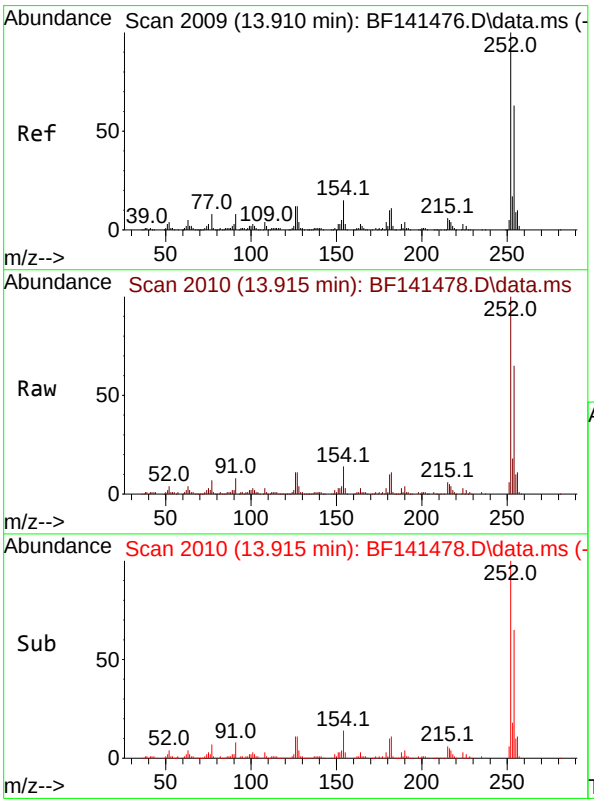
#81
Benzo(a)anthracene
Concen: 59.097 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 774318

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	19.6	15.8	23.6

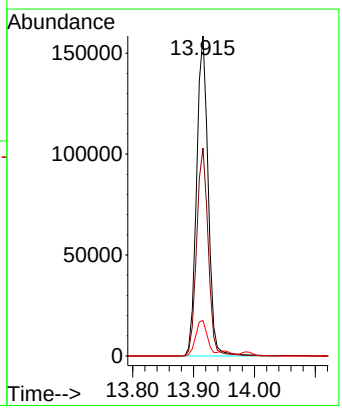


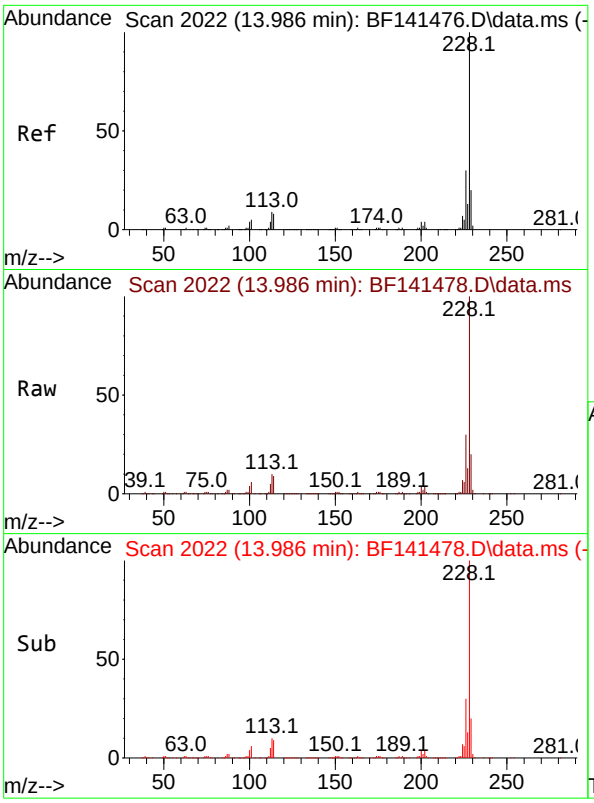


#82
3,3'-Dichlorobenzidine
Concen: 55.639 ng
RT: 13.915 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 208826

Ion	Ratio	Lower	Upper
252	100		
254	65.0	50.6	76.0
126	11.1	9.3	13.9



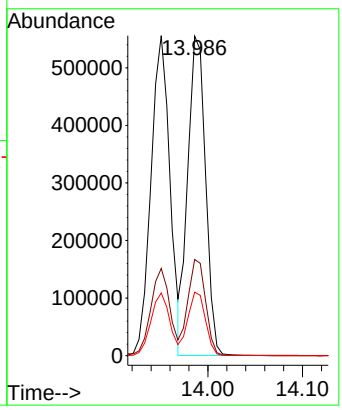


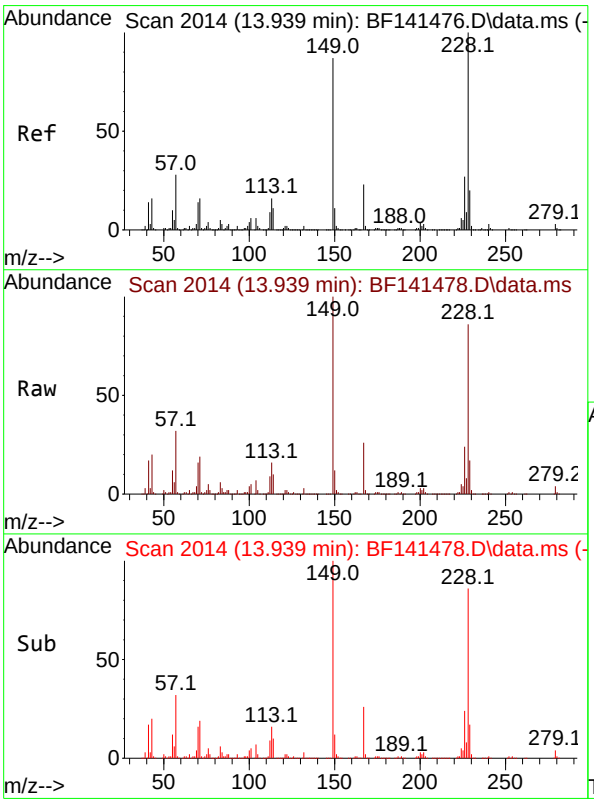
#83
Chrysene
Concen: 59.829 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 723815

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.9	15.7	23.5

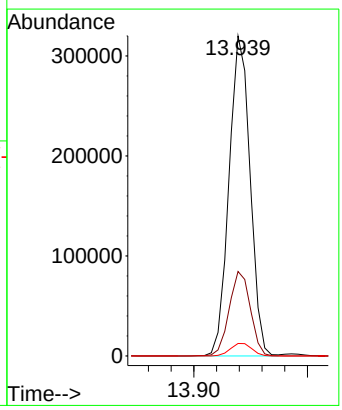


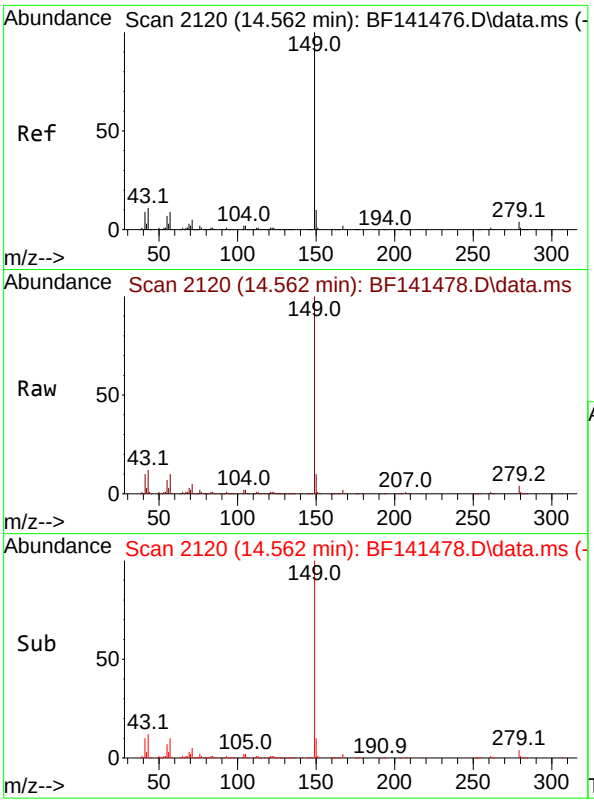


#84
Bis(2-ethylhexyl)phthalate
Concen: 62.851 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:149 Resp: 411979

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.0
279	3.9	3.1	4.7



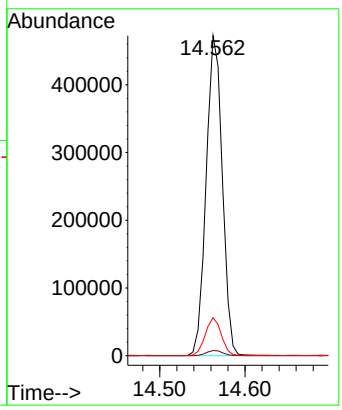


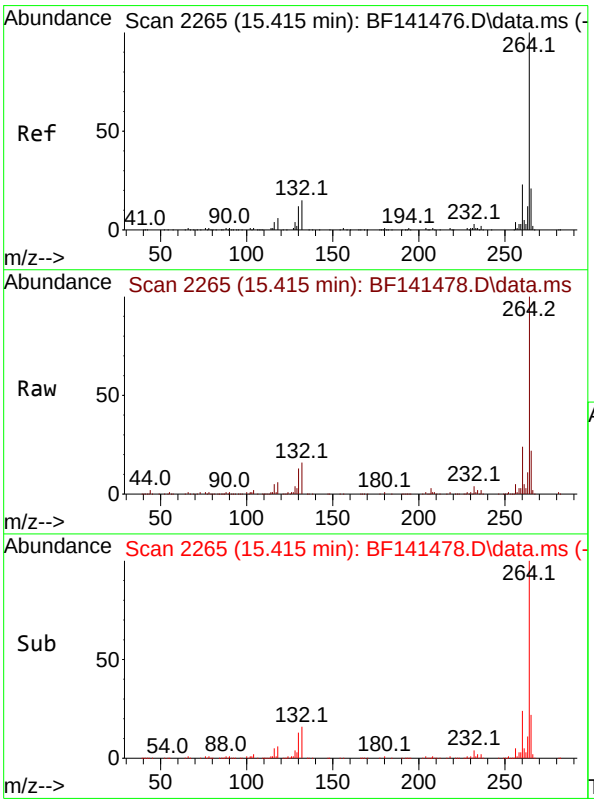
#85
Di-n-octyl phthalate
Concen: 66.464 ng
RT: 14.562 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 621505

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3

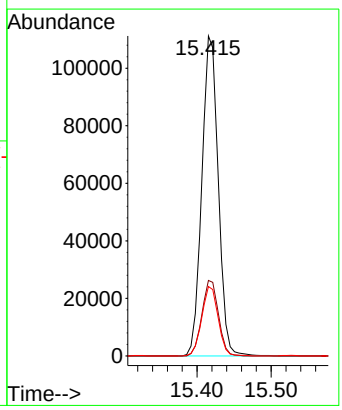


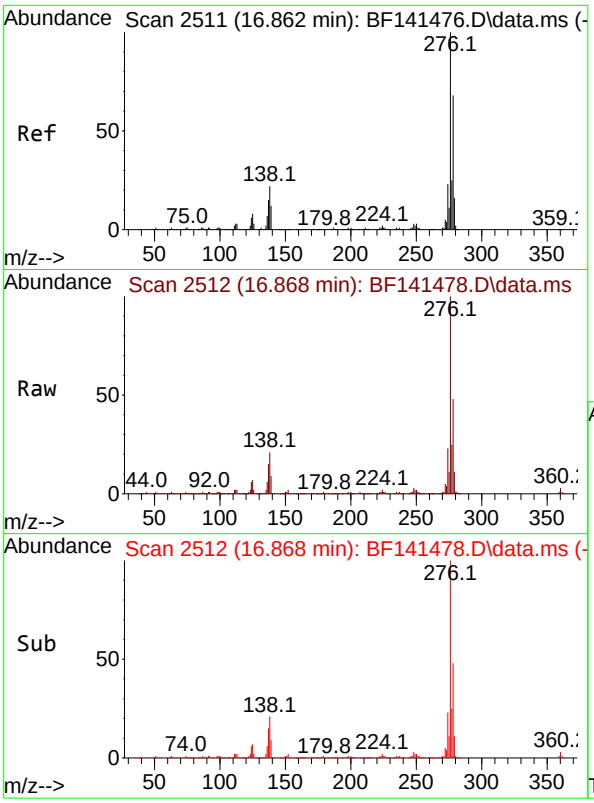


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:264 Resp: 171026

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.7	17.0	25.4



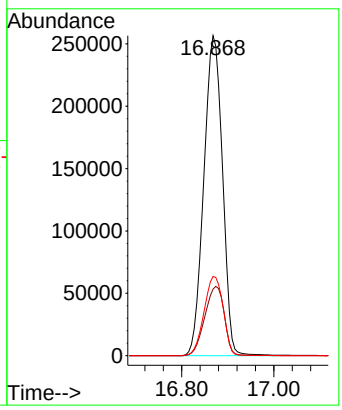


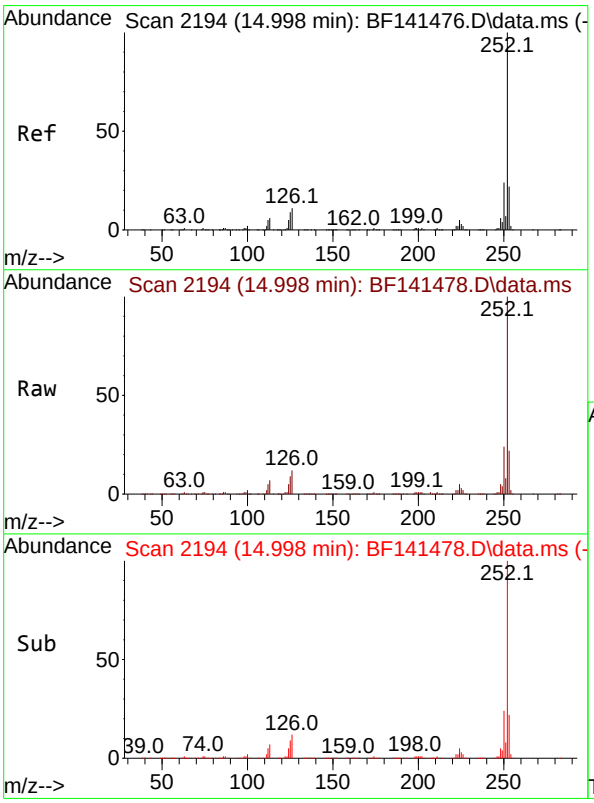
#87
Indeno(1,2,3-cd)pyrene
Concen: 68.464 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 723493

Ion	Ratio	Lower	Upper
276	100		
138	22.6	18.0	27.0
277	25.5	20.4	30.6

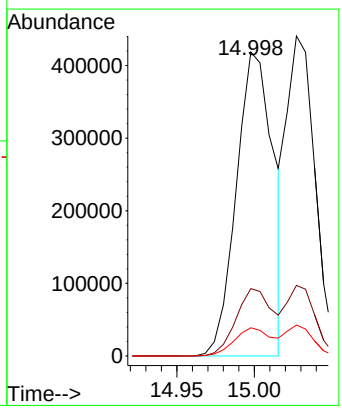


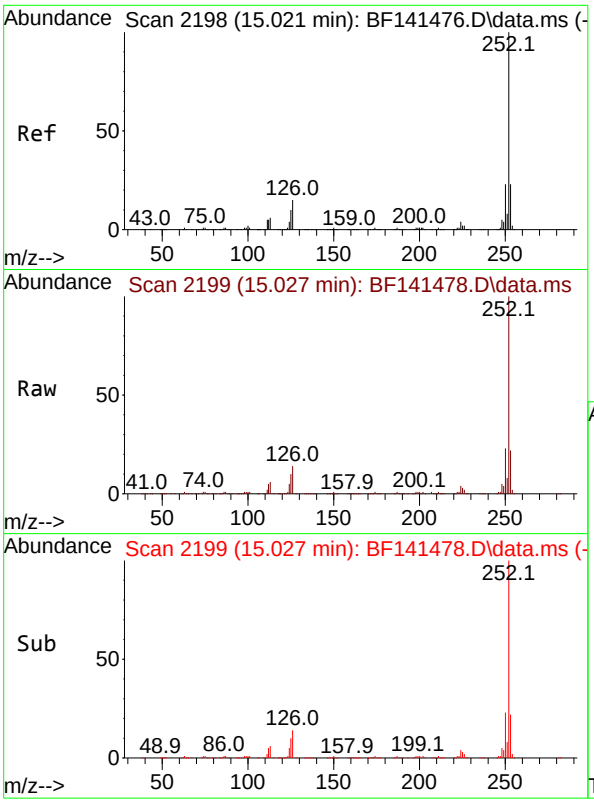


#88
Benzo(b)fluoranthene
Concen: 60.575 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 695617

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	9.3	7.0	10.6



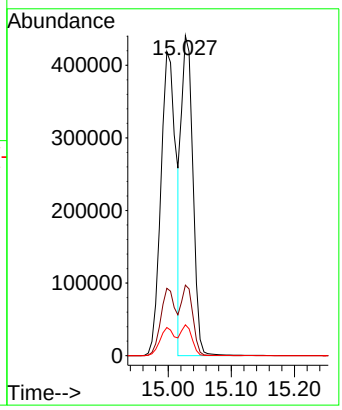


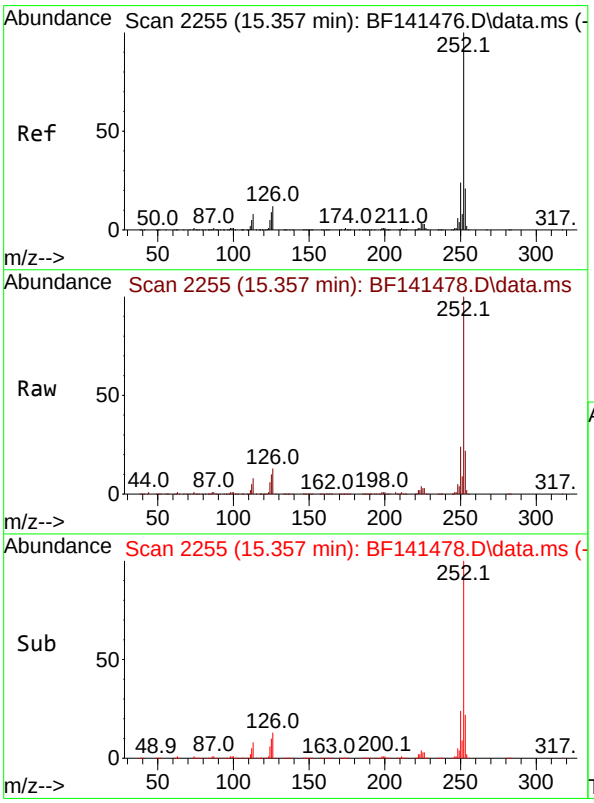
#89
Benzo(k)fluoranthene
Concen: 57.449 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 563342

Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.0	27.0
125	9.6	7.4	11.0

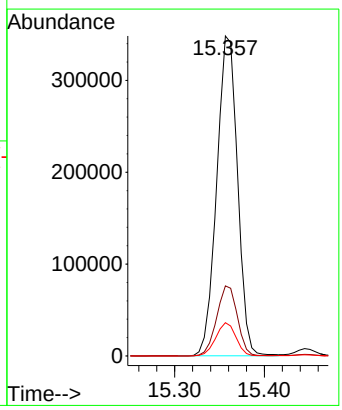


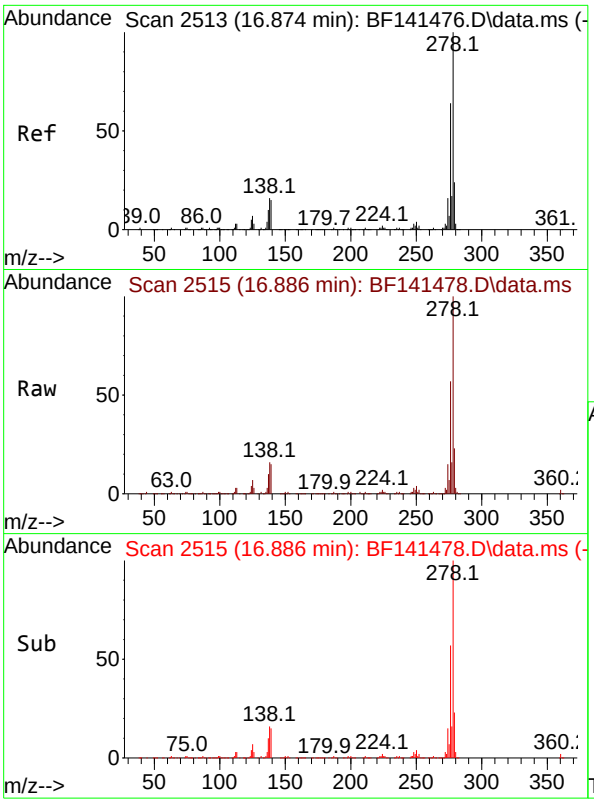


#90
Benzo(a)pyrene
Concen: 60.423 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:252 Resp: 561457

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	10.4	7.4	11.2



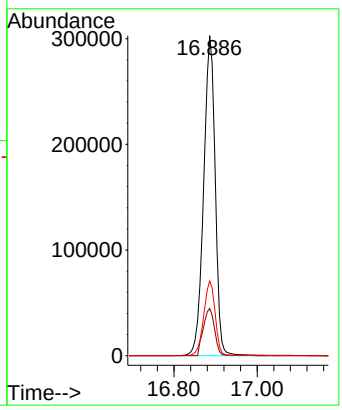


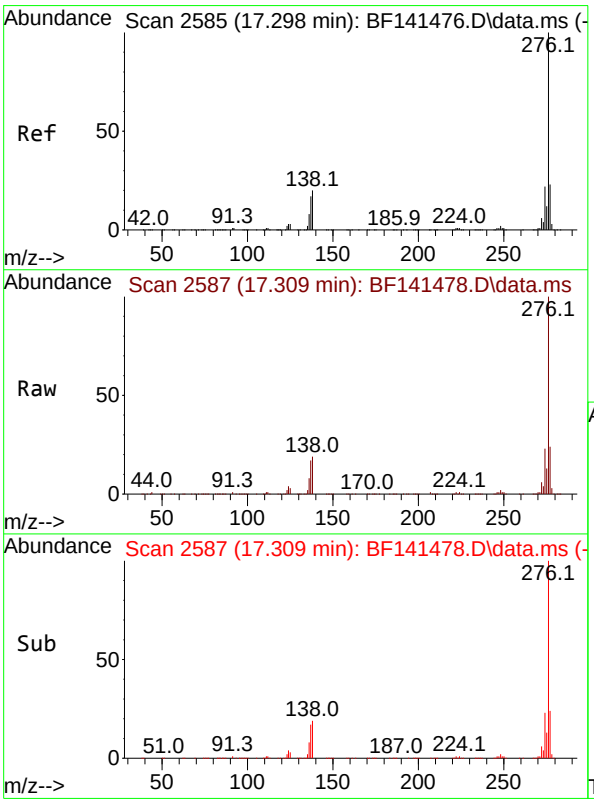
#91
Dibenzo(a,h)anthracene
Concen: 68.216 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 584115

Ion	Ratio	Lower	Upper
278	100		
139	14.8	11.8	17.6
279	23.4	19.1	28.7

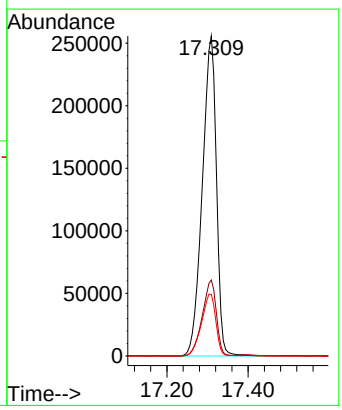




#92
Benzo(g,h,i)perylene
Concen: 68.884 ng
RT: 17.309 min Scan# 2587
Delta R.T. -0.006 min
Lab File: BF141478.D
Acq: 06 Feb 2025 13:47

Tgt Ion:276 Resp: 617241

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	19.3	15.9	23.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141479.D
Acq On : 06 Feb 2025 14:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Feb 06 16:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	90415	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	341252	20.000	ng		0.00
39) Acenaphthene-d10	9.833	164	186230	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	312902	20.000	ng		0.00
76) Chrysene-d12	13.962	240	184347	20.000	ng		0.00
86) Perylene-d12	15.415	264	170605	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	878184	152.272	ng		0.00
7) Phenol-d6	6.439	99	1112281	152.591	ng		0.00
23) Nitrobenzene-d5	7.363	82	1048314	160.228	ng		0.00
42) 2,4,6-Tribromophenol	10.627	330	291947	156.058	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1789795	148.066	ng		0.00
79) Terphenyl-d14	12.904	244	1781602	163.152	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.481	88	181328	78.119	ng		99
3) Pyridine	3.216	79	435462	78.838	ng		99
4) n-Nitrosodimethylamine	3.187	42	301403	82.409	ng		97
6) Aniline	6.463	93	498556	72.913	ng		94
8) 2-Chlorophenol	6.586	128	470975	75.577	ng		99
10) Phenol	6.457	94	567332	74.779	ng		99
11) bis(2-Chloroethyl)ether	6.534	93	454141	79.695	ng		99
12) 1,3-Dichlorobenzene	6.734	146	494180	75.115	ng		99
13) 1,4-Dichlorobenzene	6.810	146	498585	74.175	ng		99
14) 1,2-Dichlorobenzene	6.963	146	464559	74.465	ng		99
15) Benzyl Alcohol	6.939	79	420673	75.258	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	708318	72.613	ng		77
17) 2-Methylphenol	7.057	107	370173	75.912	ng		97
18) Hexachloroethane	7.304	117	190062	76.402	ng		97
19) n-Nitroso-di-n-propyla...	7.216	70	328097	75.249	ng		98
20) 3+4-Methylphenols	7.216	107	450046	72.613	ng	#	88
22) Acetophenone	7.210	105	652334	76.846	ng		98
24) Nitrobenzene	7.381	77	513249	80.448	ng		98
25) Isophorone	7.622	82	838076	80.337	ng		99
26) 2-Nitrophenol	7.692	139	261386	82.350	ng		98
27) 2,4-Dimethylphenol	7.733	122	300036	80.915	ng		98
28) bis(2-Chloroethoxy)met...	7.828	93	529442	79.203	ng		99
29) 2,4-Dichlorophenol	7.939	162	399027	79.645	ng		98
30) 1,2,4-Trichlorobenzene	8.016	180	428656	78.568	ng		99
31) Naphthalene	8.098	128	1381453	77.769	ng		100
32) Benzoic acid	7.892	122	335418	87.086	ng		98
33) 4-Chloroaniline	8.157	127	504834	81.400	ng		98
34) Hexachlorobutadiene	8.210	225	257532	78.628	ng		100
35) Caprolactam	8.545	113	125619	82.350	ng		97
36) 4-Chloro-3-methylphenol	8.639	107	441925	79.630	ng		98
37) 2-Methylnaphthalene	8.786	142	889774	76.975	ng		100
38) 1-Methylnaphthalene	8.886	142	861860	76.983	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	418579	77.689	ng		99
41) Hexachlorocyclopentadiene	8.939	237	159430	88.965	ng		98
43) 2,4,6-Trichlorophenol	9.069	196	277156	79.591	ng		97
44) 2,4,5-Trichlorophenol	9.116	196	298856	79.189	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141479.D
Acq On : 06 Feb 2025 14:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Feb 06 16:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	9.257	154	1100720	76.237	ng	99
47) 2-Chloronaphthalene	9.280	162	821334	76.929	ng	99
48) 2-Nitroaniline	9.380	65	286532	79.969	ng	97
49) Acenaphthylene	9.692	152	1211515	76.291	ng	99
50) Dimethylphthalate	9.563	163	1002121	79.265	ng	99
51) 2,6-Dinitrotoluene	9.622	165	215853	78.101	ng	94
52) Acenaphthene	9.869	154	819818	76.791	ng	99
53) 3-Nitroaniline	9.792	138	235511	79.173	ng	97
54) 2,4-Dinitrophenol	9.904	184	147768	89.960	ng	95
55) Dibenzofuran	10.039	168	1174157	74.928	ng	100
56) 4-Nitrophenol	9.969	139	187131	84.744	ng	97
57) 2,4-Dinitrotoluene	10.027	165	284954	77.449	ng	95
58) Fluorene	10.380	166	909704	75.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.163	232	253454	78.006	ng	98
60) Diethylphthalate	10.257	149	945293	75.995	ng	100
61) 4-Chlorophenyl-phenyle...	10.374	204	435522	74.716	ng	99
62) 4-Nitroaniline	10.416	138	241257	79.873	ng	99
63) Azobenzene	10.533	77	963689	77.931	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	185427	85.309	ng	99
66) n-Nitrosodiphenylamine	10.498	169	785313	78.404	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	276228	78.988	ng	96
68) Hexachlorobenzene	10.927	284	285111	79.174	ng	97
69) Atrazine	11.021	200	219923	73.188	ng	100
70) Pentachlorophenol	11.127	266	200556	87.100	ng	99
71) Phenanthrene	11.345	178	1312474	76.201	ng	100
72) Anthracene	11.398	178	1322462	76.380	ng	99
73) Carbazole	11.551	167	1168253	74.989	ng	99
74) Di-n-butylphthalate	11.880	149	1382706	76.865	ng	99
75) Fluoranthene	12.533	202	1333237	73.011	ng	100
77) Benzidine	12.657	184	354555	87.207	ng	99
78) Pyrene	12.763	202	1319554	84.086	ng	100
80) Butylbenzylphthalate	13.380	149	459803	84.592	ng	100
81) Benzo(a)anthracene	13.951	228	943291	76.977	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	263773	75.143	ng	100
83) Chrysene	13.992	228	906415	80.108	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	517884	84.477	ng	99
85) Di-n-octyl phthalate	14.562	149	803601	91.886	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	961023	91.166	ng	100
88) Benzo(b)fluoranthene	15.004	252	865205	75.529	ng	100
89) Benzo(k)fluoranthene	15.033	252	776323	79.364	ng	99
90) Benzo(a)pyrene	15.362	252	742932	80.150	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	773684	90.578	ng	99
92) Benzo(g,h,i)perylene	17.315	276	831418	93.015	ng	99

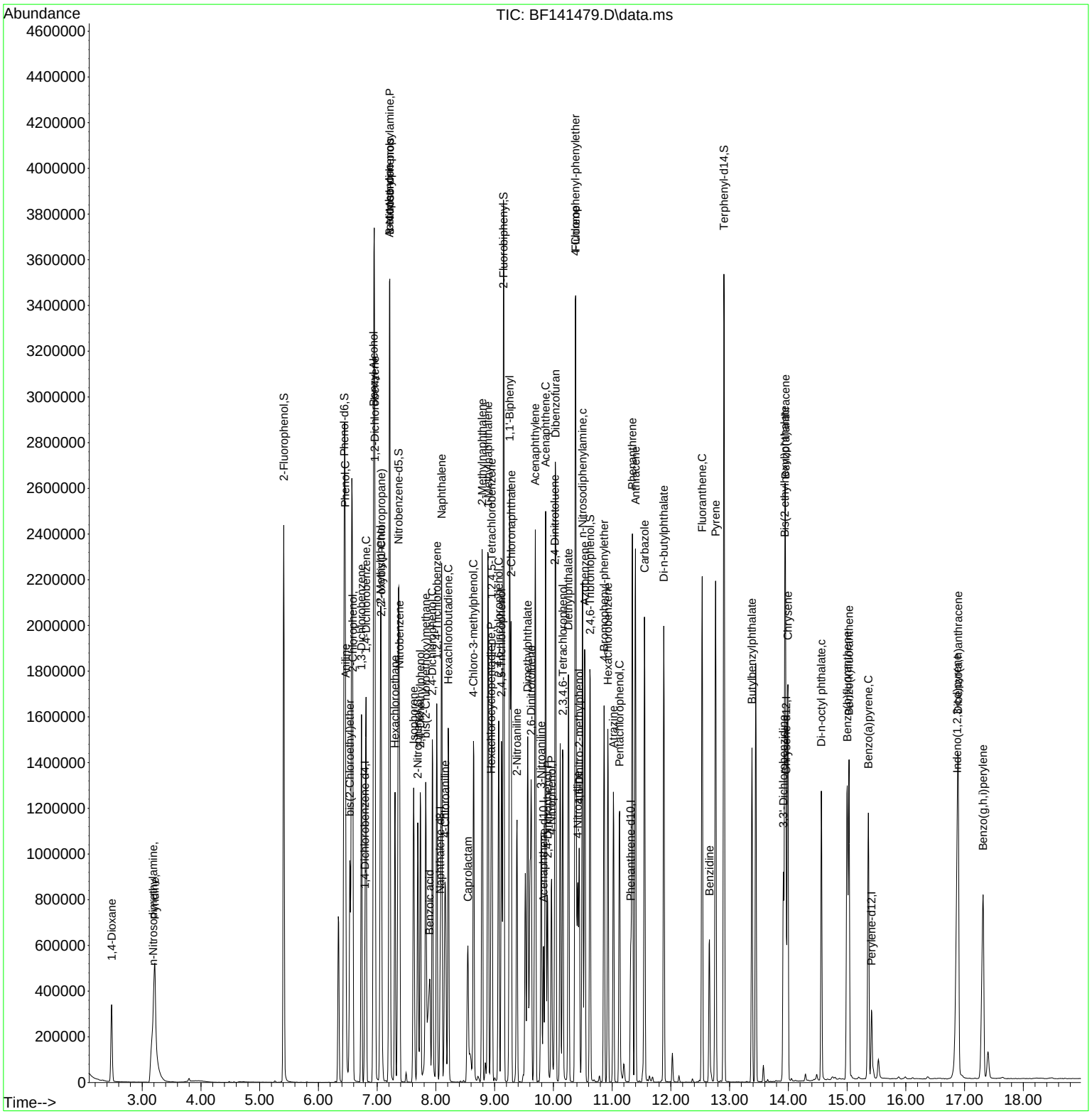
(#) = qualifier out of range (m) = manual integration (+) = signals summed

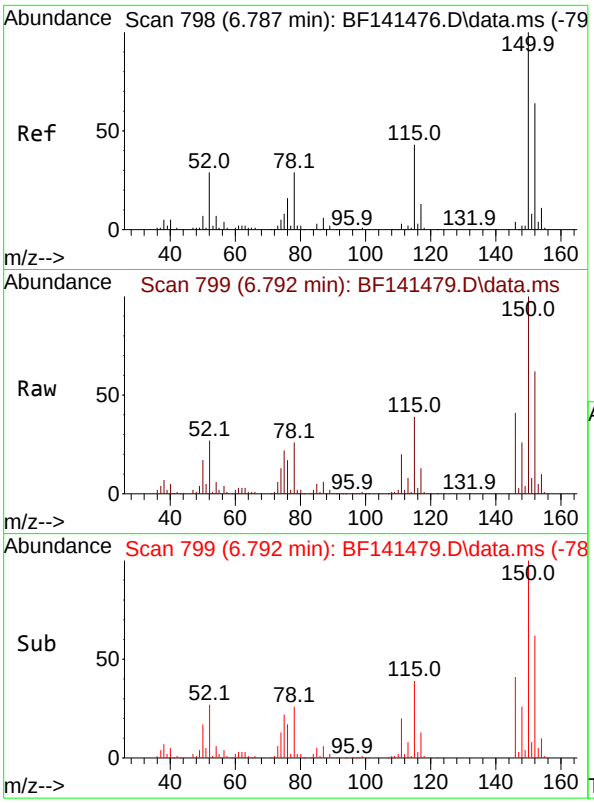
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141479.D
Acq On : 06 Feb 2025 14:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Feb 06 16:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



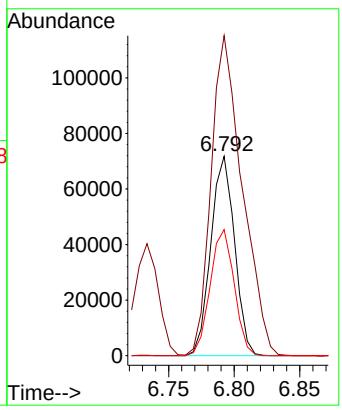


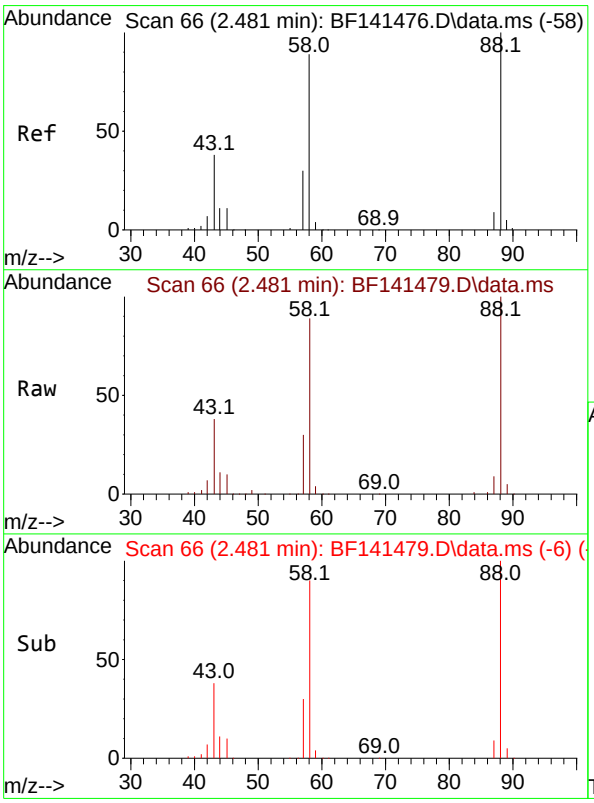
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 90415

Ion	Ratio	Lower	Upper
152	100		
150	160.5	125.0	187.4
115	63.2	53.6	80.4

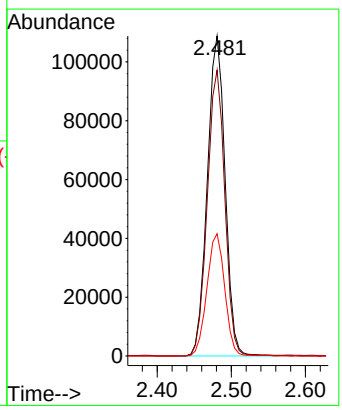


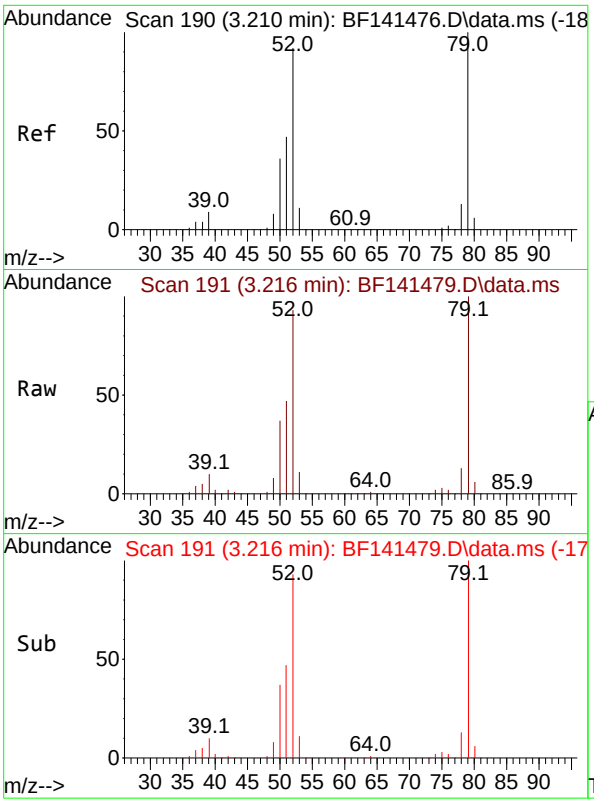


#2
1,4-Dioxane
Concen: 78.119 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 88 Resp: 181328

Ion	Ratio	Lower	Upper
88	100		
58	88.2	71.1	106.7
43	38.3	30.6	46.0



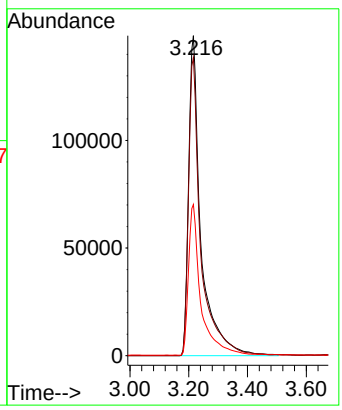


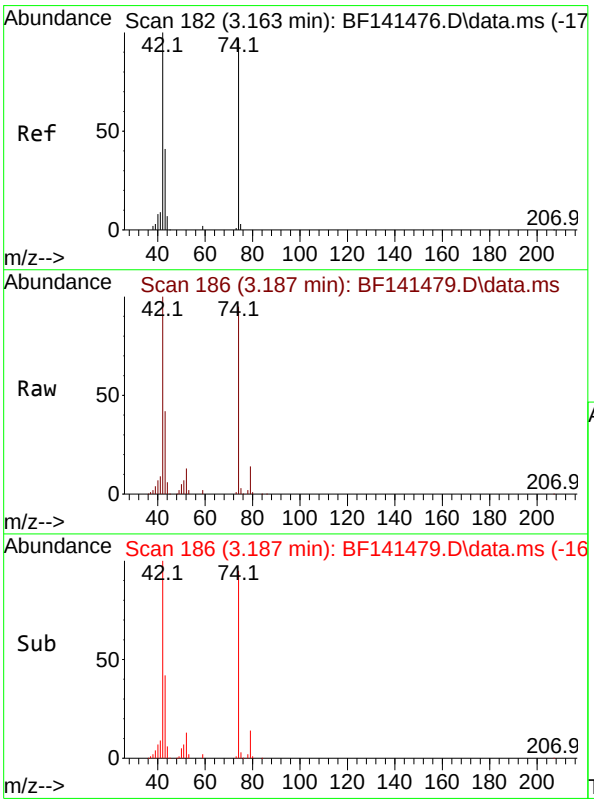
#3
Pyridine
Concen: 78.838 ng
RT: 3.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 435462

Ion	Ratio	Lower	Upper
79	100		
52	93.2	73.7	110.5
51	47.3	37.5	56.3

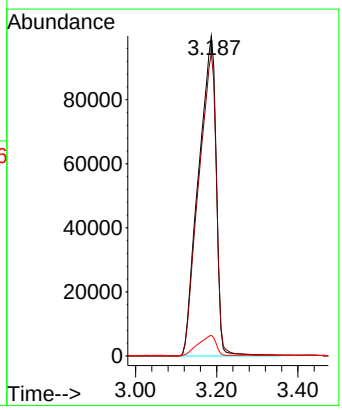


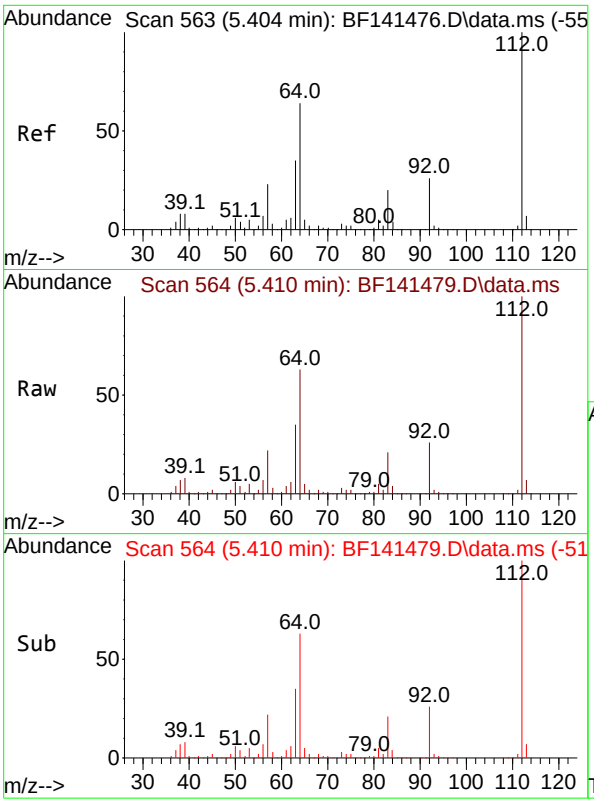


#4
n-Nitrosodimethylamine
Concen: 82.409 ng
RT: 3.187 min Scan# 186
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 42 Resp: 301403

Ion	Ratio	Lower	Upper
42	100		
74	94.7	78.0	117.0
44	6.4	5.4	8.2



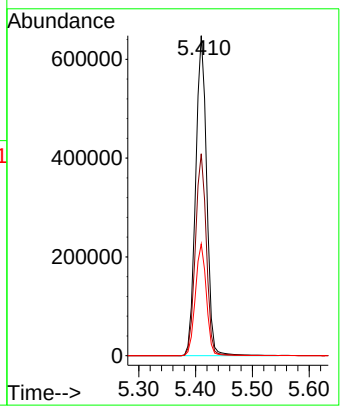


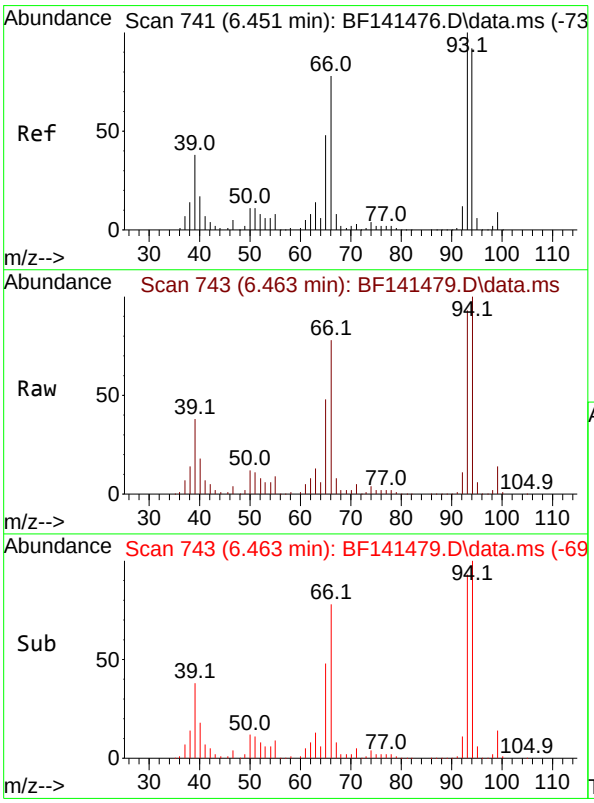
#5
2-Fluorophenol
Concen: 152.272 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 878184

Ion	Ratio	Lower	Upper
112	100		
64	63.1	51.1	76.7
63	34.9	28.4	42.6

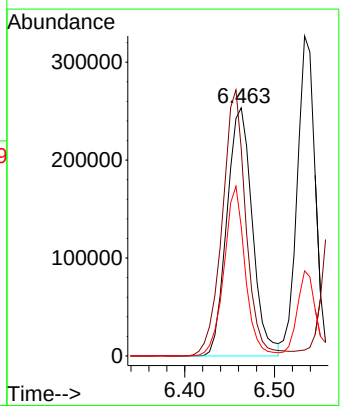


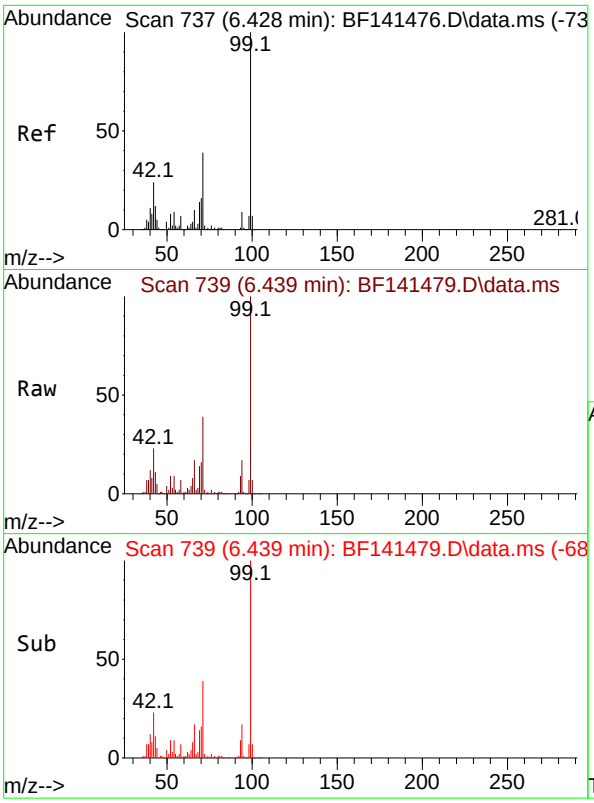


#6
Aniline
Concen: 72.913 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 93 Resp: 498556

Ion	Ratio	Lower	Upper
93	100		
66	83.5	62.6	94.0
65	52.1	38.3	57.5



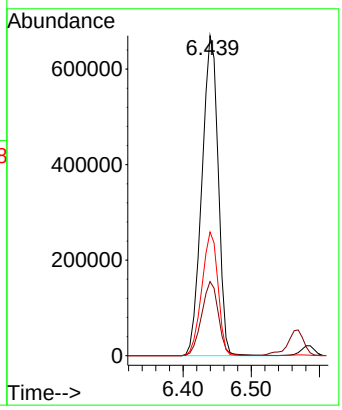


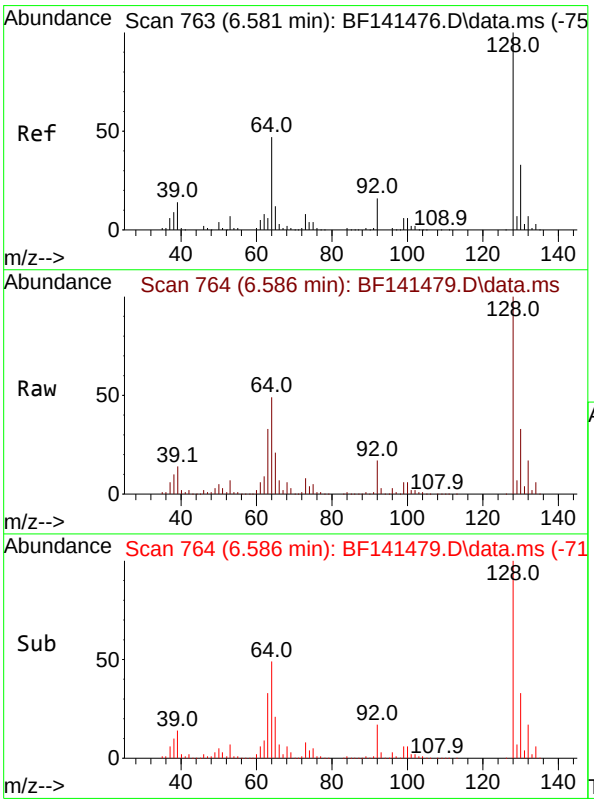
#7
Phenol-d6
Concen: 152.591 ng
RT: 6.439 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 1112281

Ion	Ratio	Lower	Upper
99	100		
42	23.2	19.1	28.7
71	38.7	31.1	46.7

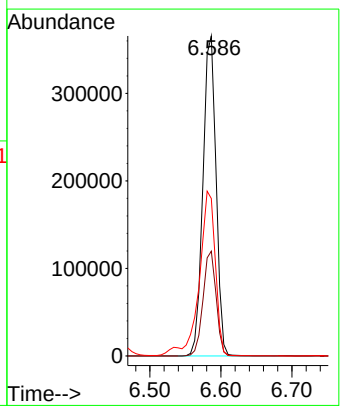


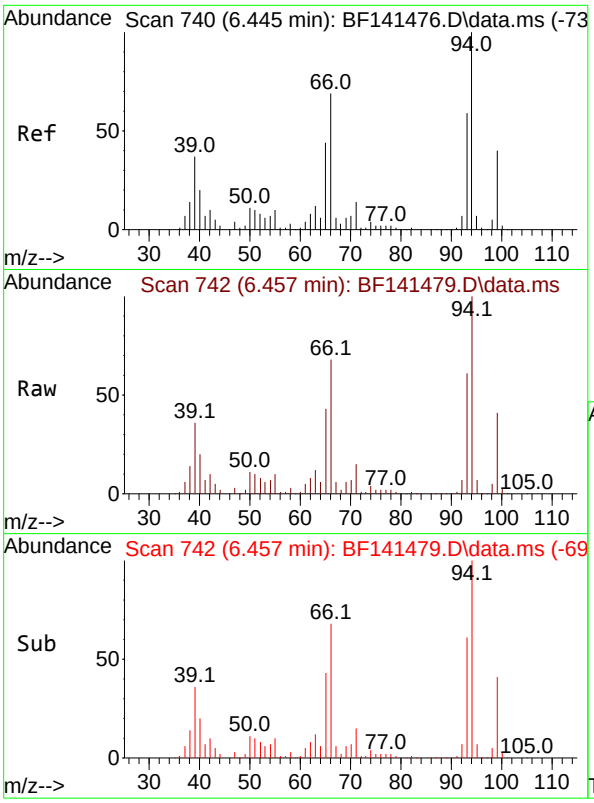


#8
2-Chlorophenol
Concen: 75.577 ng
RT: 6.586 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:128 Resp: 470975

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.7	52.7
64	49.2	28.3	68.3



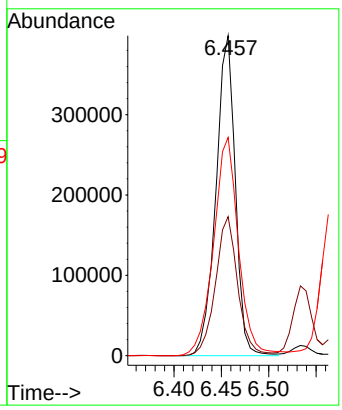


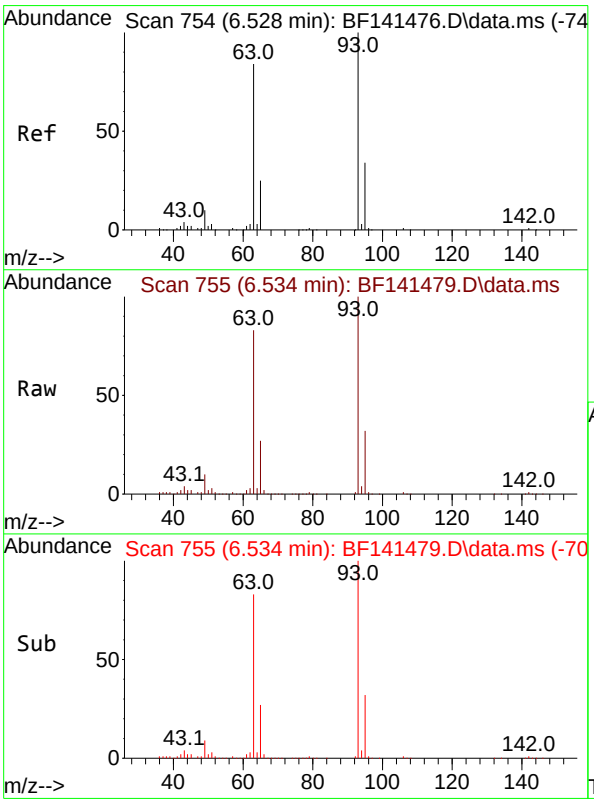
#10
Phenol
Concen: 74.779 ng
RT: 6.457 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 94 Resp: 567332

Ion	Ratio	Lower	Upper
94	100		
65	43.5	23.7	63.7
66	68.2	49.3	89.3

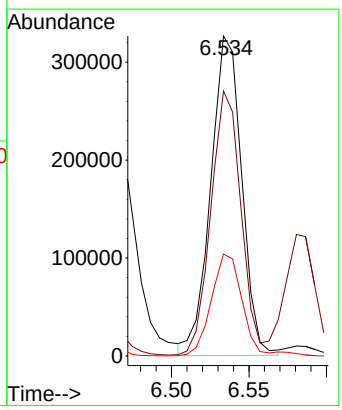


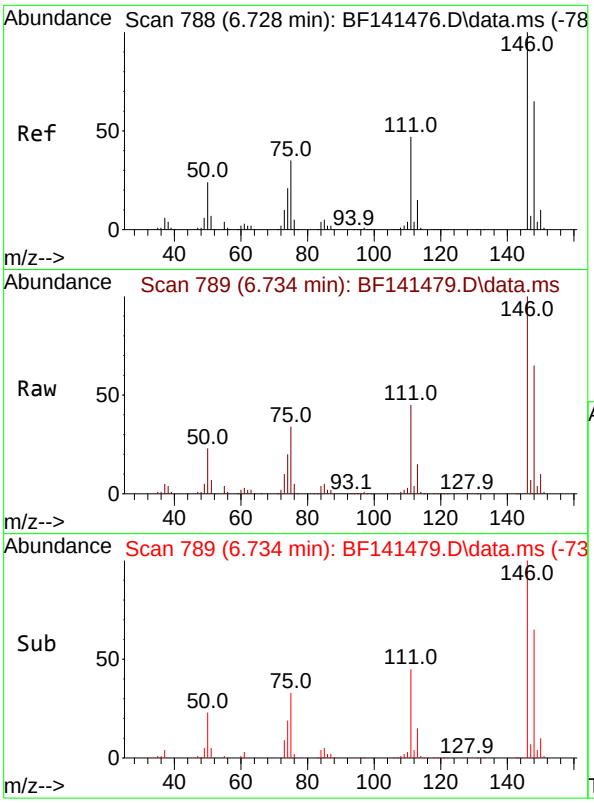


#11
bis(2-Chloroethyl)ether
Concen: 79.695 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 93 Resp: 454141

Ion	Ratio	Lower	Upper
93	100		
63	82.8	62.0	102.0
95	31.9	12.6	52.6



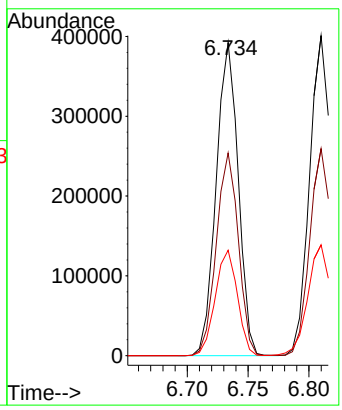


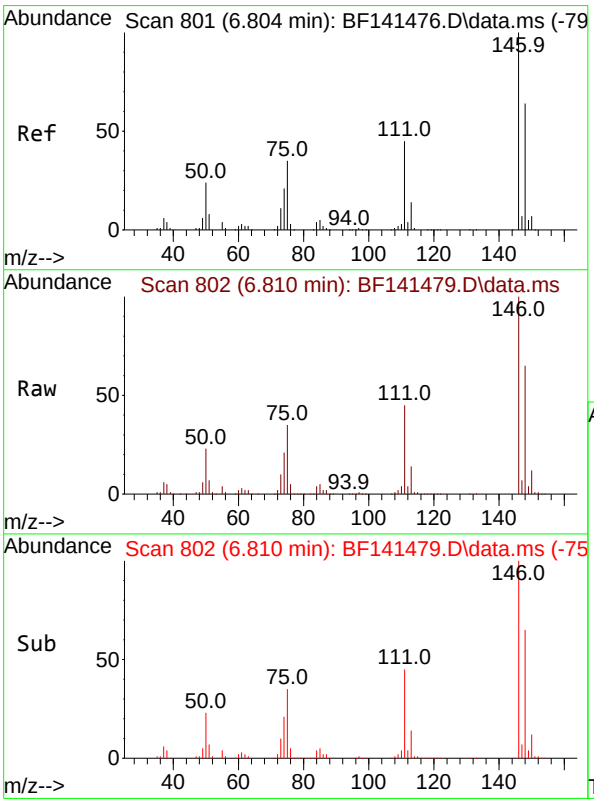
#12
1,3-Dichlorobenzene
Concen: 75.115 ng
RT: 6.734 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 494180

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.9	77.9
75	33.7	28.2	42.2

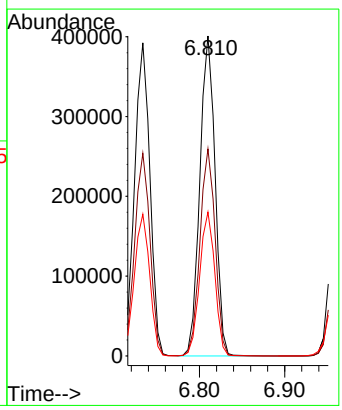


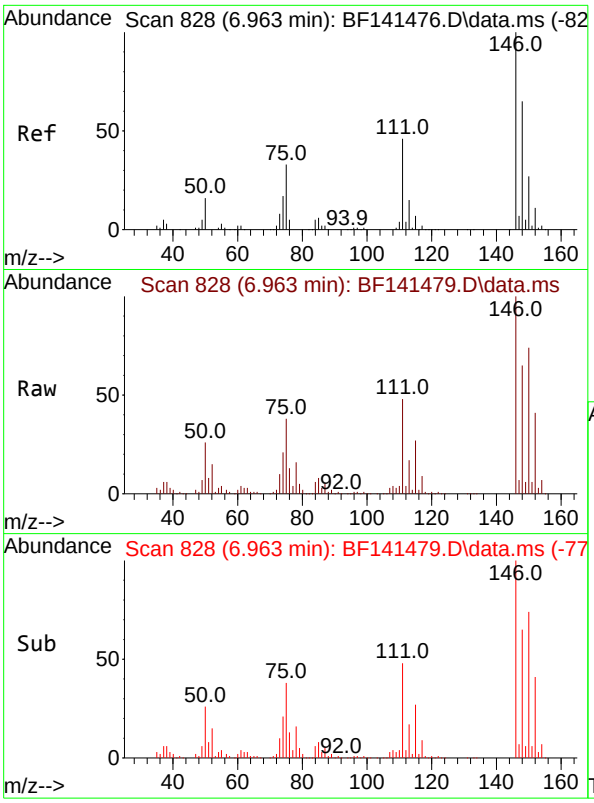


#13
1,4-Dichlorobenzene
Concen: 74.175 ng
RT: 6.810 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:146 Resp: 498585

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.9	76.3
111	44.9	35.9	53.9



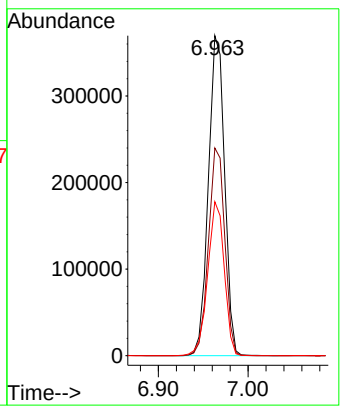


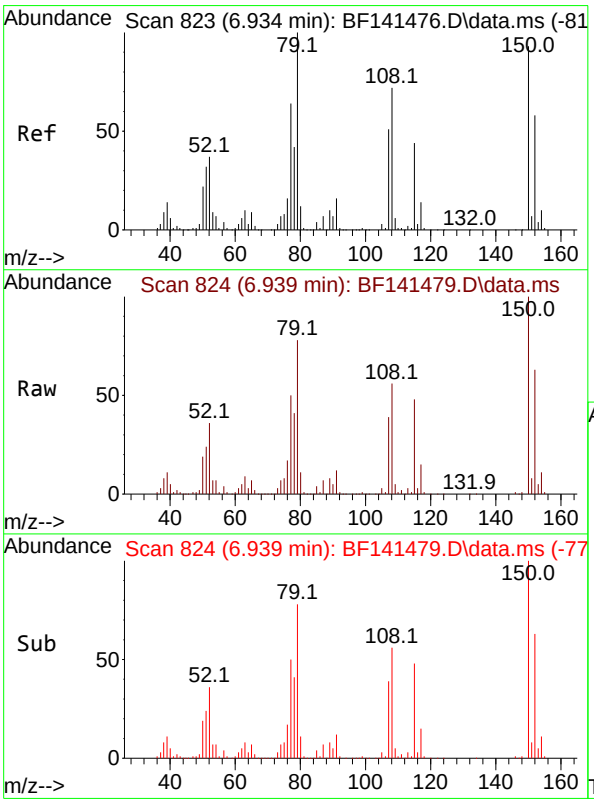
#14
1,2-Dichlorobenzene
Concen: 74.465 ng
RT: 6.963 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 464559

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.8	77.6
111	48.1	37.0	55.4

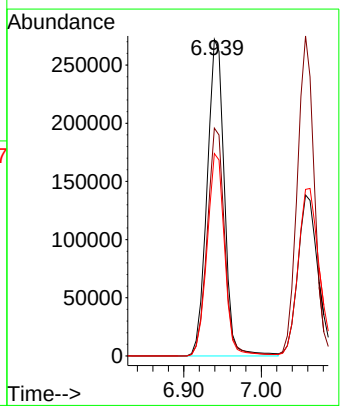


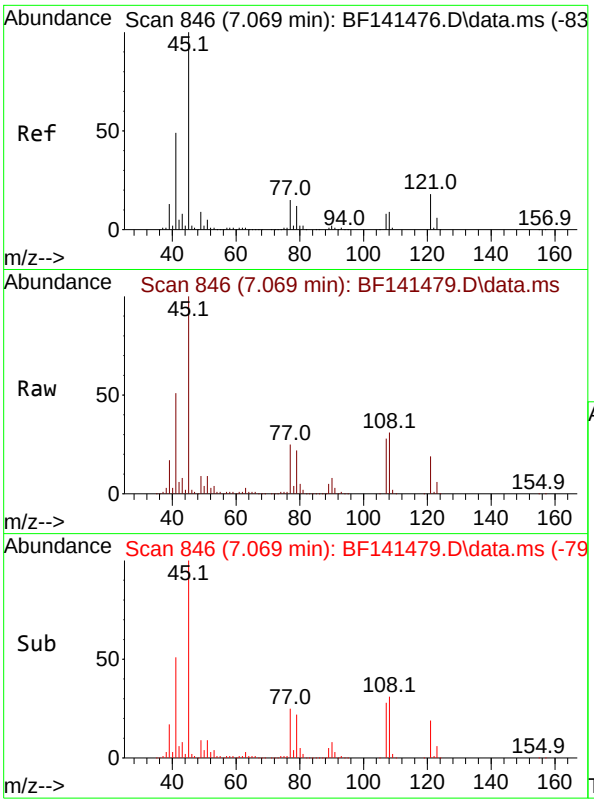


#15
Benzyl Alcohol
Concen: 75.258 ng
RT: 6.939 min Scan# 824
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 79 Resp: 420673

Ion	Ratio	Lower	Upper
79	100		
108	72.0	57.4	86.2
77	64.0	50.9	76.3



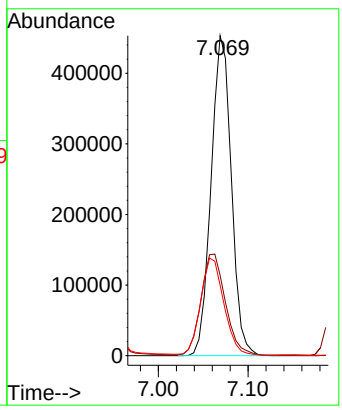


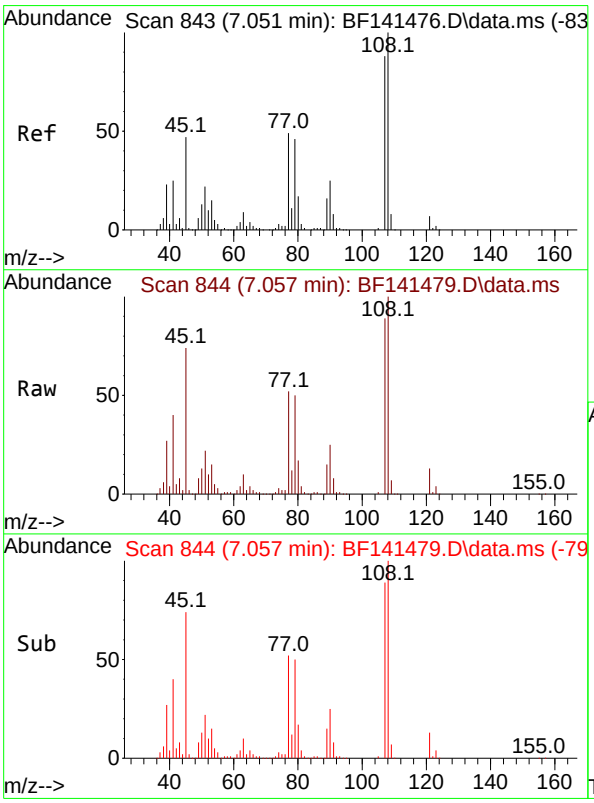
#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.613 ng
RT: 7.069 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 45 Resp: 708318

Ion	Ratio	Lower	Upper
45	100		
77	25.1	0.0	35.8
79	22.0	0.0	32.7

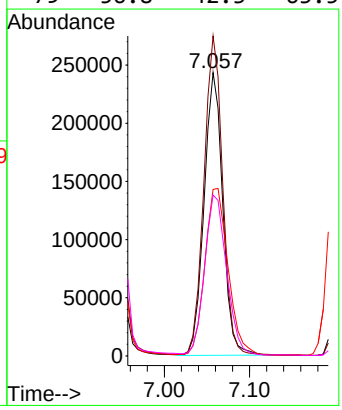


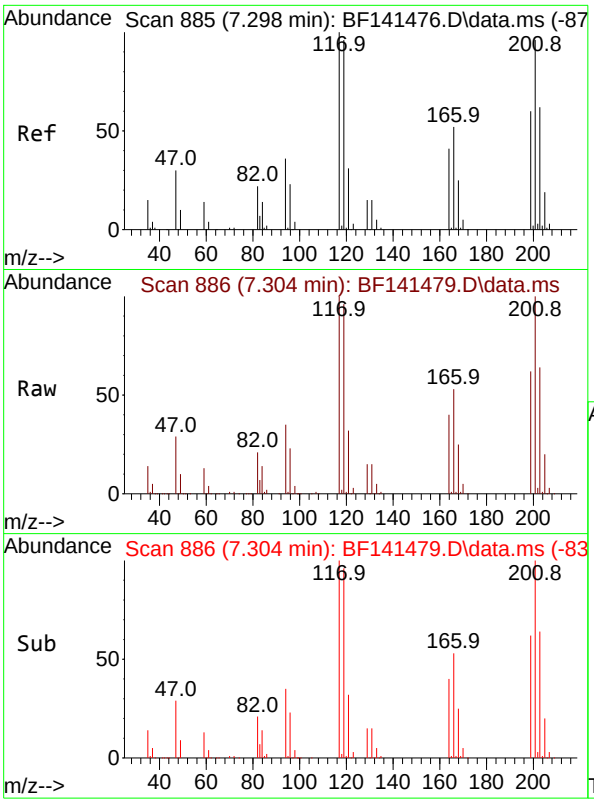


#17
2-Methylphenol
Concen: 75.912 ng
RT: 7.057 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:107 Resp: 370173

Ion	Ratio	Lower	Upper
107	100		
108	112.9	90.6	136.0
77	58.7	44.4	66.6
79	56.8	42.3	63.5



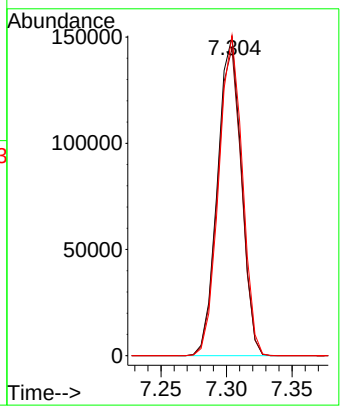


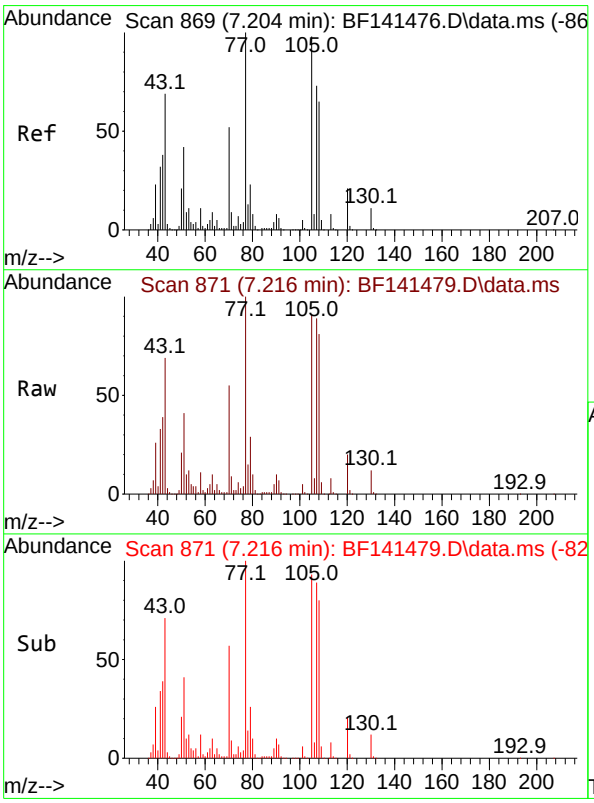
#18
Hexachloroethane
Concen: 76.402 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:117 Resp: 190062

Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.5	114.7
201	100.5	76.7	115.1

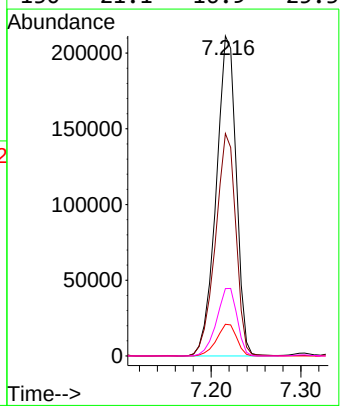


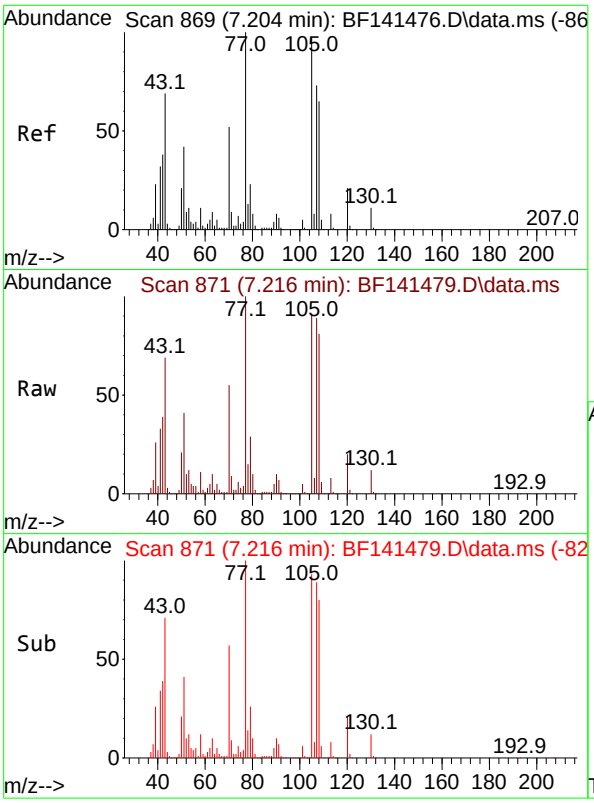


#19
n-Nitroso-di-n-propylamine
Concen: 75.249 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 70 Resp: 328097

Ion	Ratio	Lower	Upper
70	100		
42	69.5	57.4	86.2
101	9.9	8.0	12.0
130	21.1	16.9	25.3



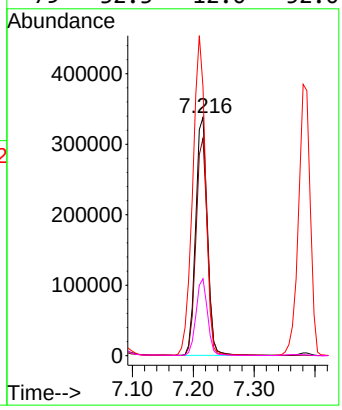


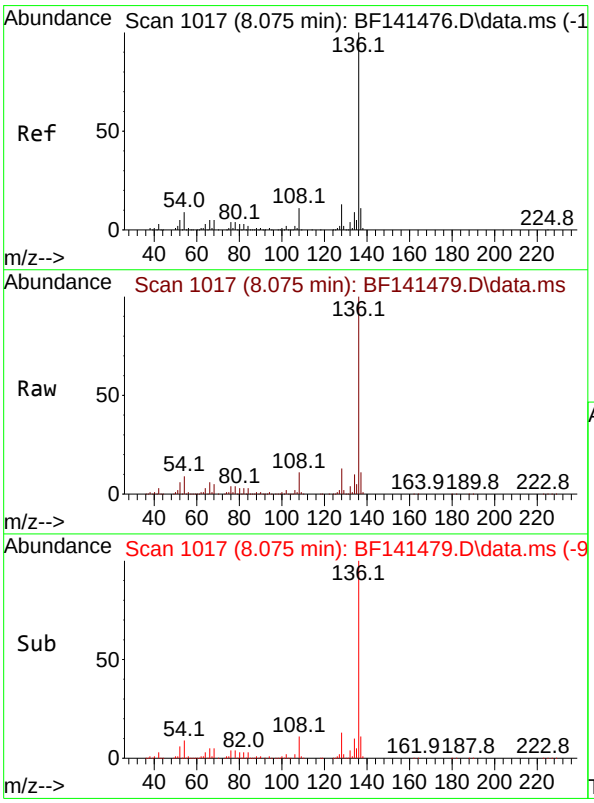
#20
3+4-Methylphenols
Concen: 72.613 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 450046

Ion	Ratio	Lower	Upper
107	100		
108	91.3	68.5	108.5
77	112.8	116.5	156.5#
79	32.3	12.0	52.0

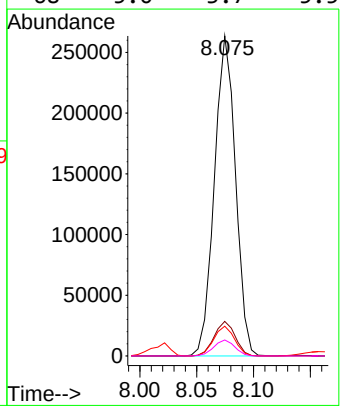


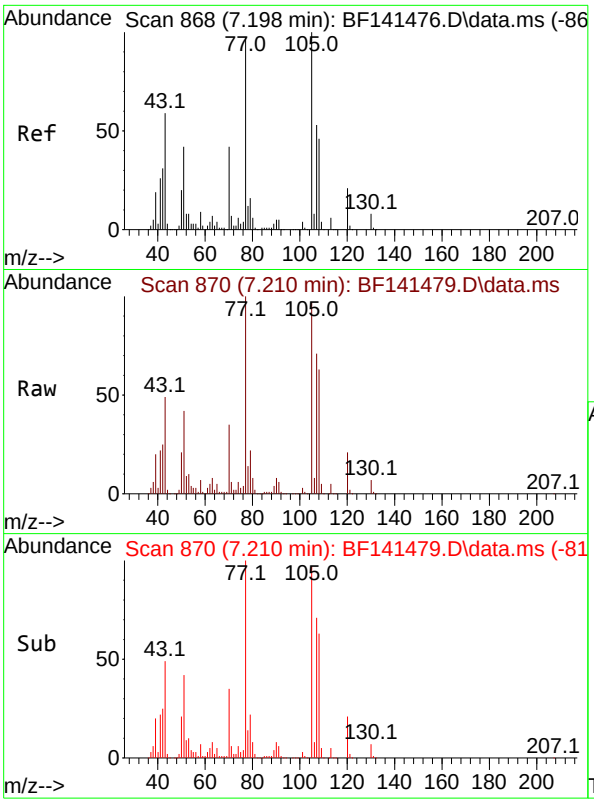


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:136 Resp: 341252

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.3	7.2	10.8
68	5.0	3.7	5.5



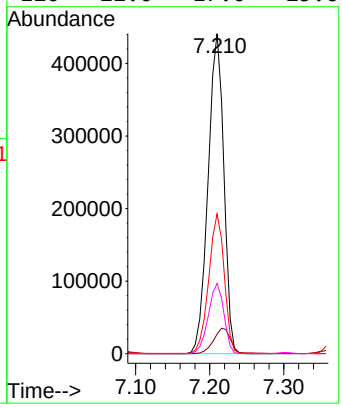


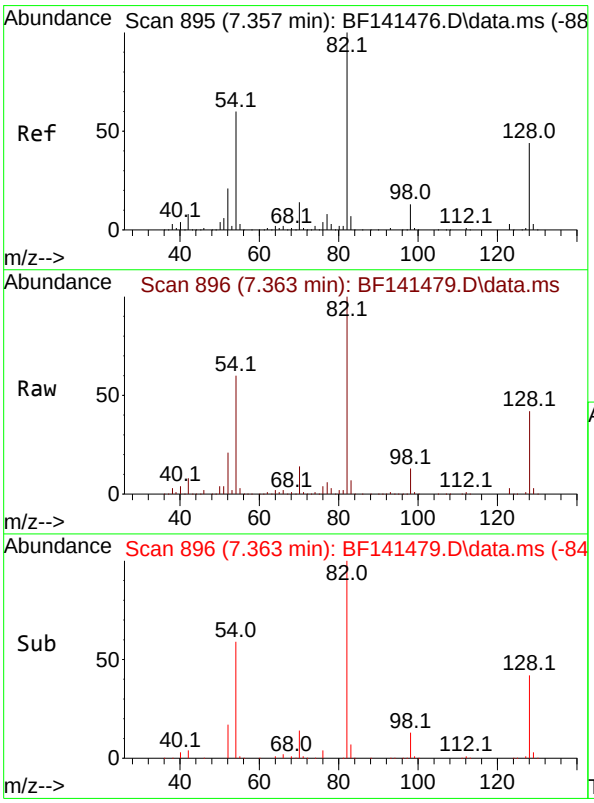
#22
Acetophenone
Concen: 76.846 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:105 Resp: 652334

Ion	Ratio	Lower	Upper
105	100		
71	6.1	5.7	8.5
51	43.7	33.7	50.5
120	22.0	17.0	25.6

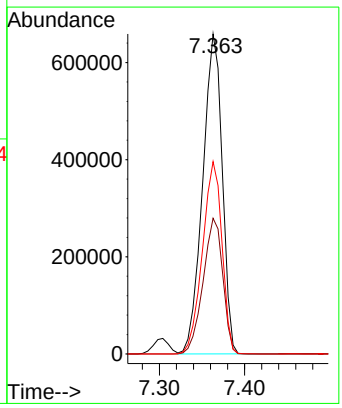


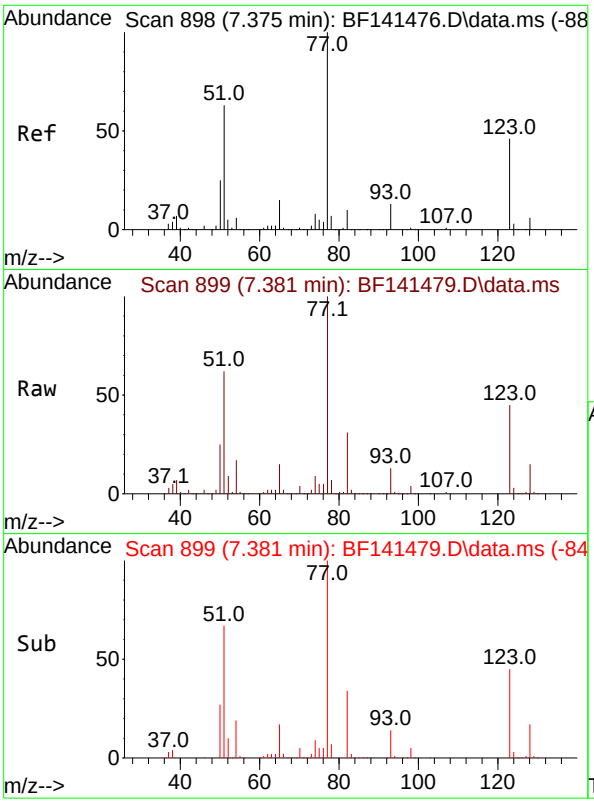


#23
Nitrobenzene-d5
Concen: 160.228 ng
RT: 7.363 min Scan# 896
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 82 Resp: 1048314

Ion	Ratio	Lower	Upper
82	100		
128	42.4	34.8	52.2
54	60.1	48.2	72.4



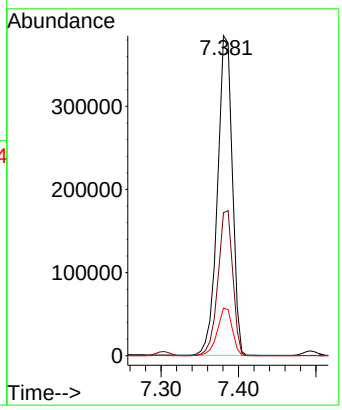


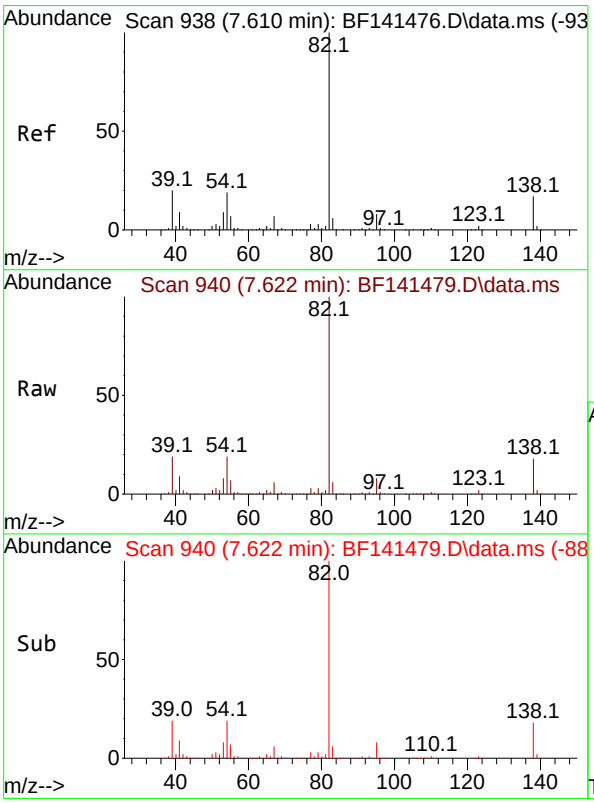
#24
Nitrobenzene
Concen: 80.448 ng
RT: 7.381 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 513249

Ion	Ratio	Lower	Upper
77	100		
123	44.7	36.9	55.3
65	14.9	11.9	17.9

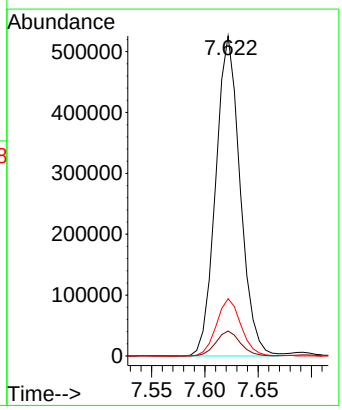


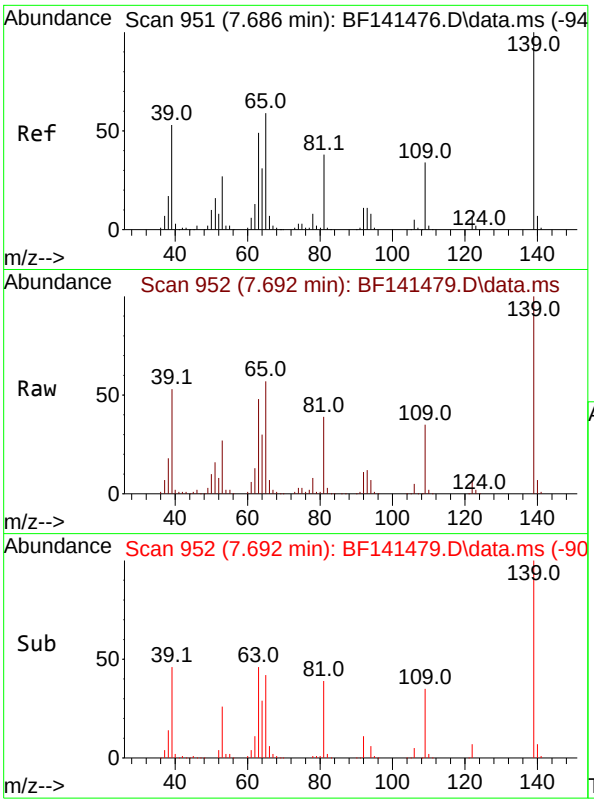


#25
Isophorone
Concen: 80.337 ng
RT: 7.622 min Scan# 940
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 82 Resp: 838076

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.9	13.9	20.9



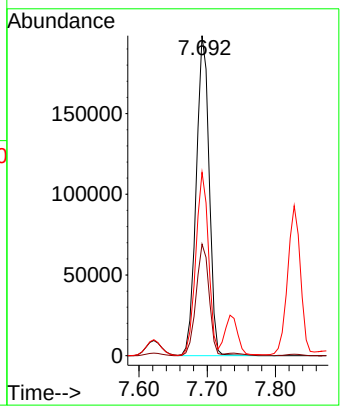


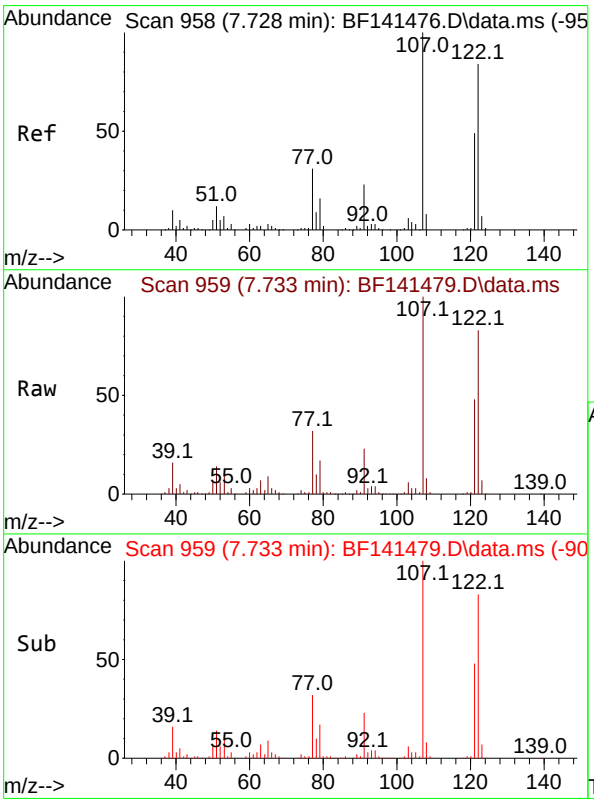
#26
2-Nitrophenol
Concen: 82.350 ng
RT: 7.692 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 261386

Ion	Ratio	Lower	Upper
139	100		
109	34.9	27.0	40.6
65	57.3	47.1	70.7

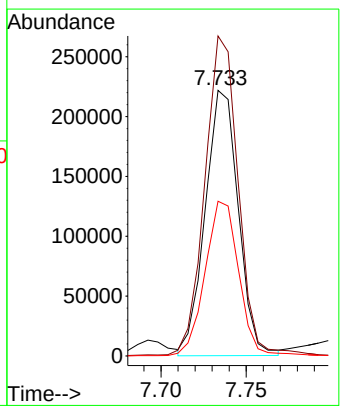


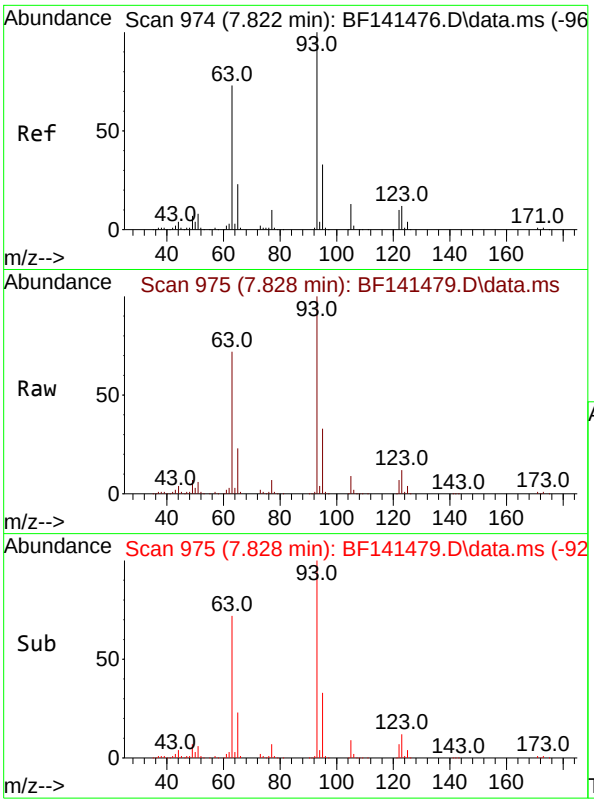


#27
2,4-Dimethylphenol
Concen: 80.915 ng
RT: 7.733 min Scan# 959
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:122 Resp: 300036

Ion	Ratio	Lower	Upper
122	100		
107	120.5	94.3	141.5
121	58.3	46.0	69.0



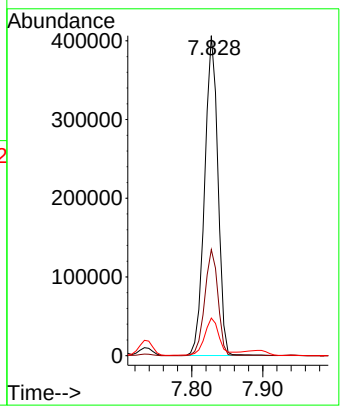


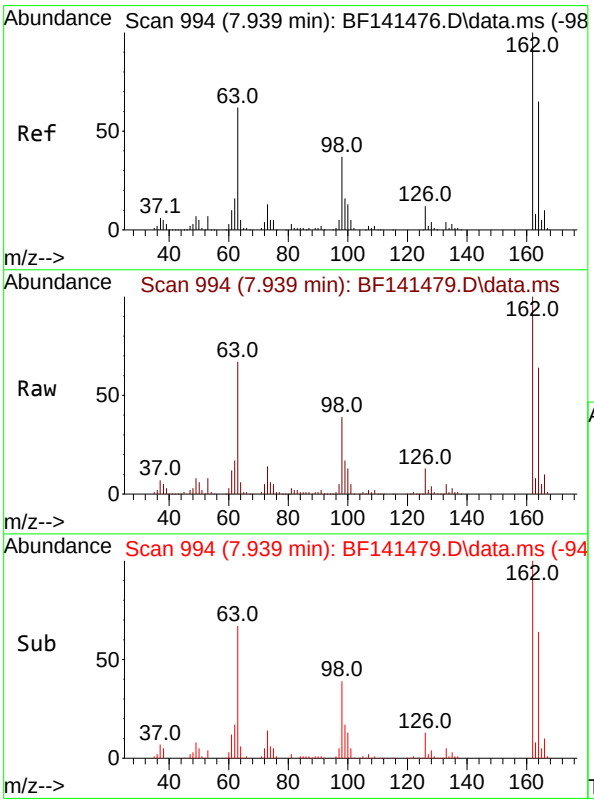
#28
bis(2-Chloroethoxy)methane
Concen: 79.203 ng
RT: 7.828 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 529442

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.1	39.1
123	11.8	9.5	14.3

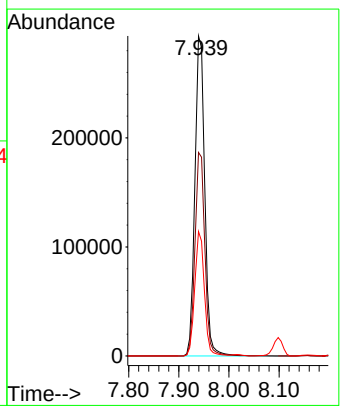


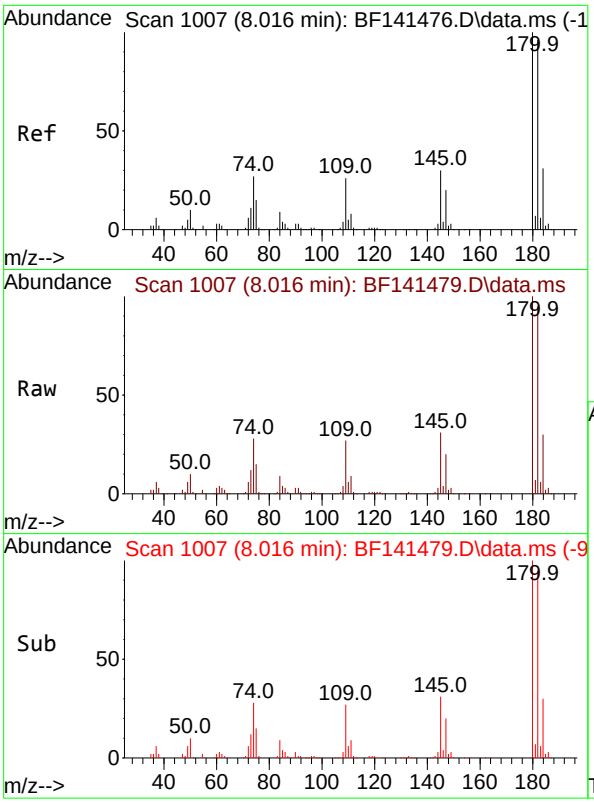


#29
2,4-Dichlorophenol
Concen: 79.645 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:162 Resp: 399027

Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.6	84.6
98	38.9	17.2	57.2



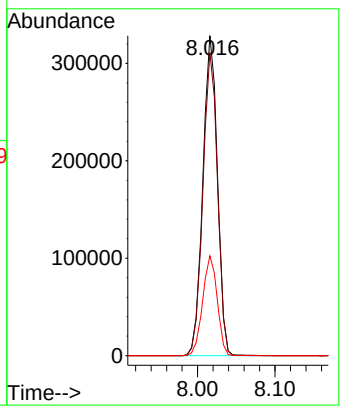


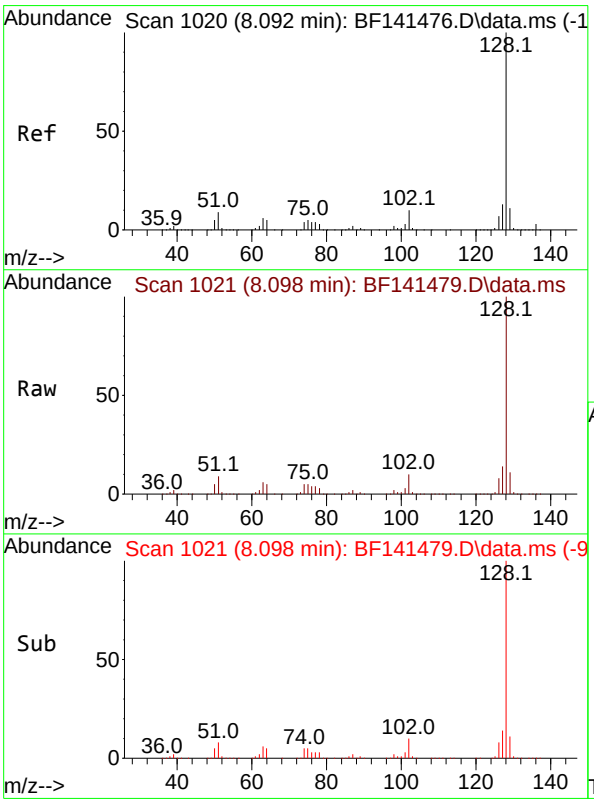
#30
1,2,4-Trichlorobenzene
Concen: 78.568 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:180 Resp: 428656

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.8	115.2
145	31.2	24.2	36.4

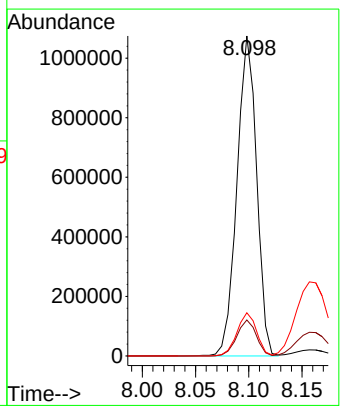


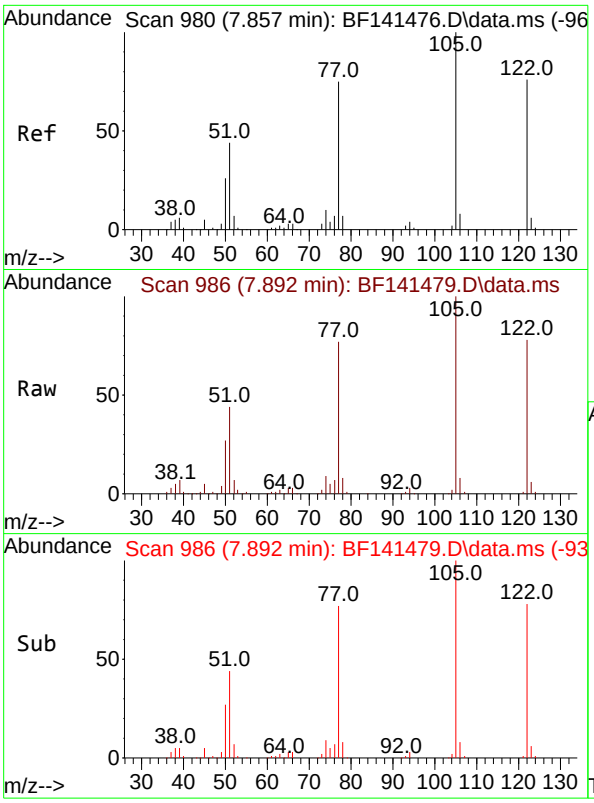


#31
Naphthalene
Concen: 77.769 ng
RT: 8.098 min Scan# 1021
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:128 Resp: 1381453

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.5	10.7	16.1



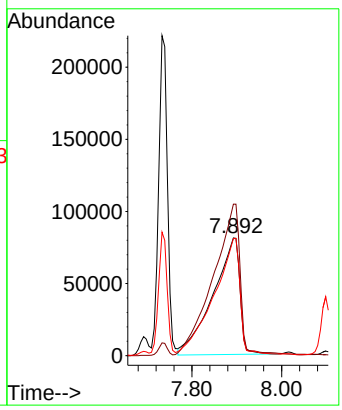


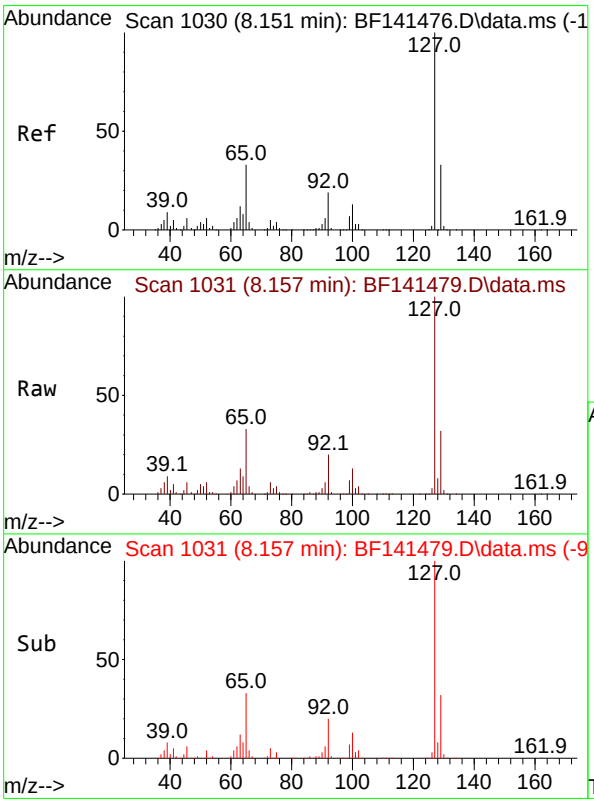
#32
Benzoic acid
Concen: 87.086 ng
RT: 7.892 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 335418

Ion	Ratio	Lower	Upper
122	100		
105	128.7	106.5	146.5
77	99.4	76.3	116.3

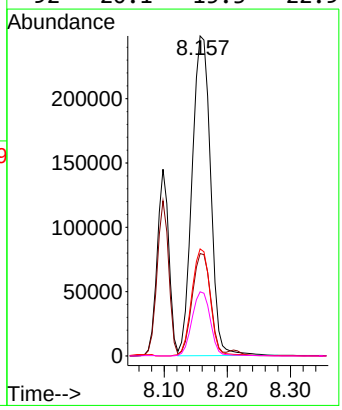


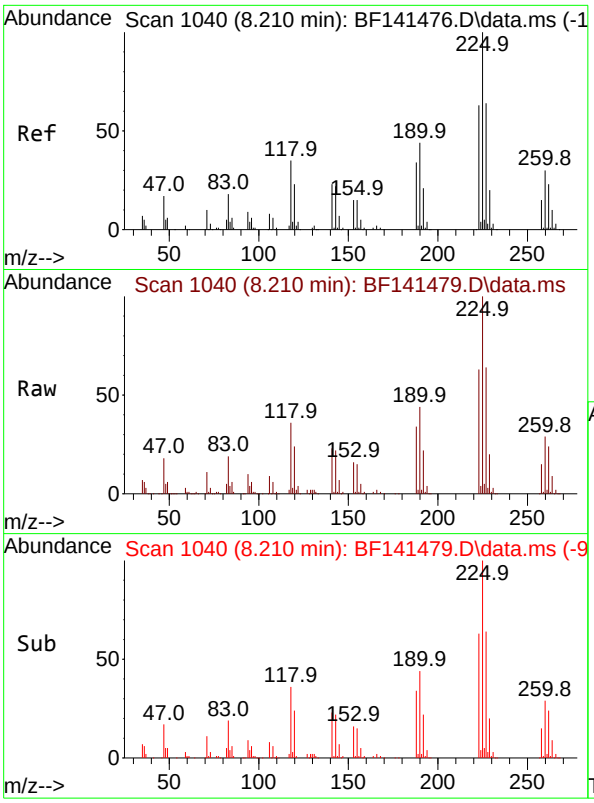


#33
4-Chloroaniline
Concen: 81.400 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:127 Resp: 504834

Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.5	39.7
65	33.5	26.4	39.6
92	20.1	15.3	22.9



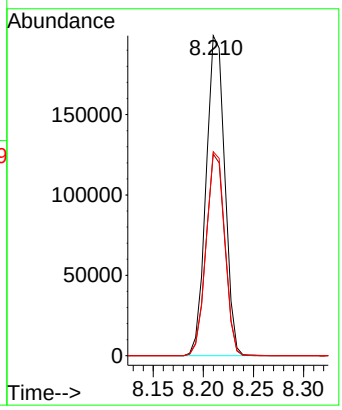


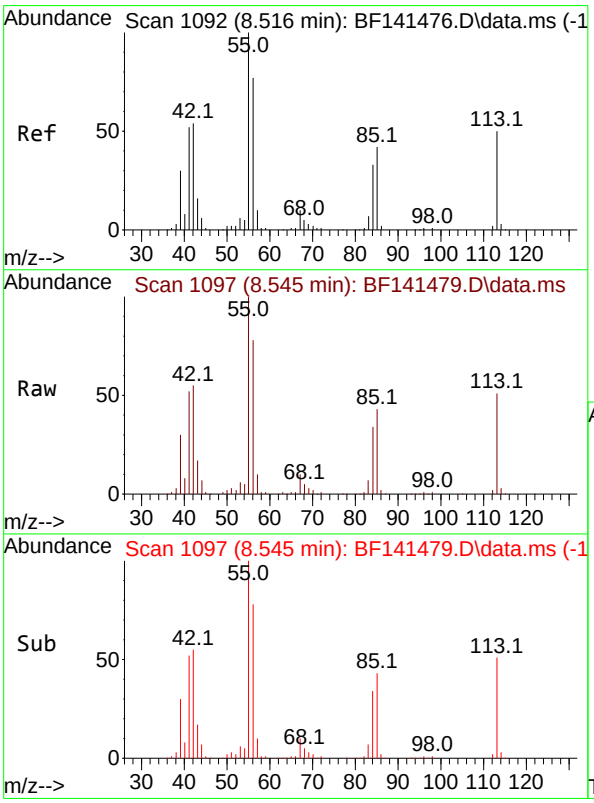
#34
Hexachlorobutadiene
Concen: 78.628 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:225 Resp: 257532

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	63.8	51.0	76.6

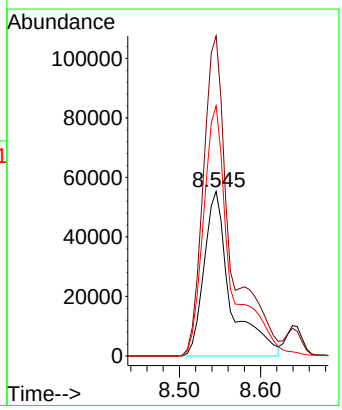


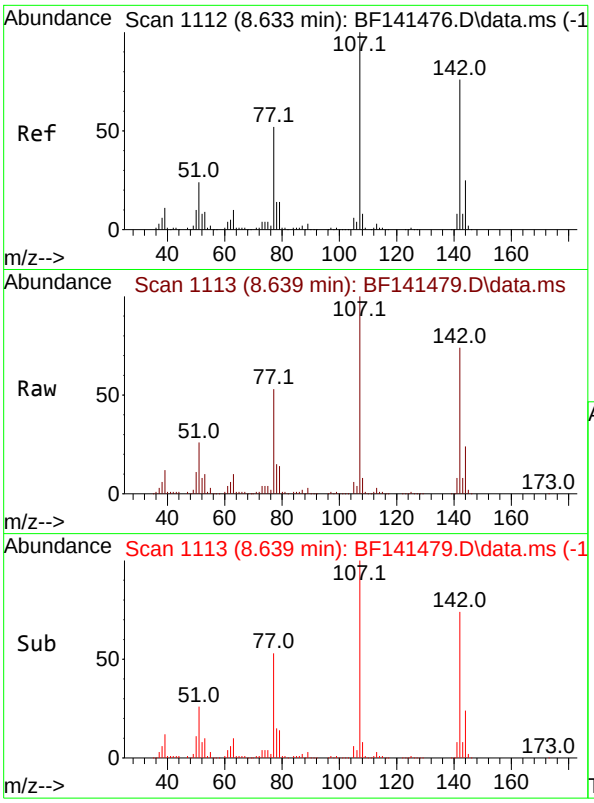


#35
Caprolactam
Concen: 82.350 ng
RT: 8.545 min Scan# 1097
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:113 Resp: 125619

Ion	Ratio	Lower	Upper
113	100		
55	194.6	180.8	220.8
56	152.1	133.6	173.6



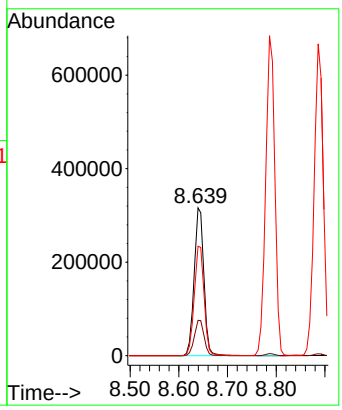


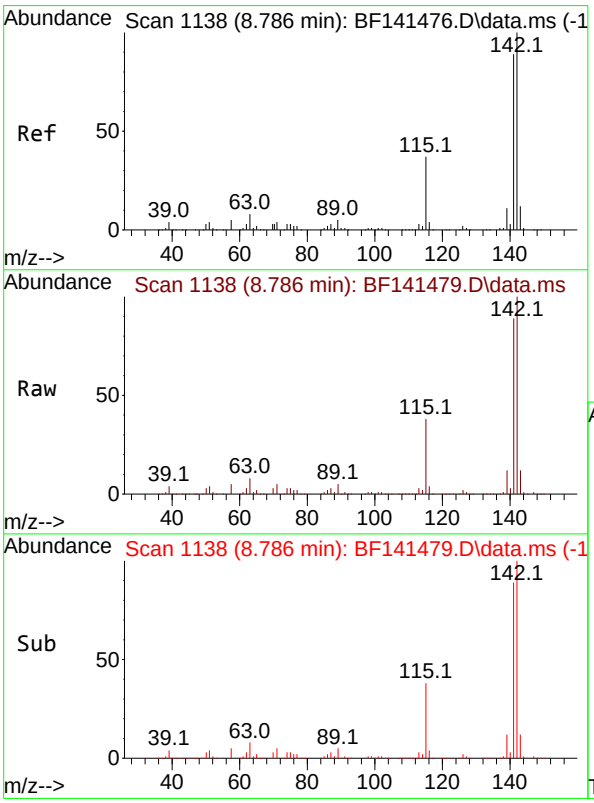
#36
4-Chloro-3-methylphenol
Concen: 79.630 ng
RT: 8.639 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 441925

Ion	Ratio	Lower	Upper
107	100		
144	23.9	19.7	29.5
142	74.0	60.8	91.2

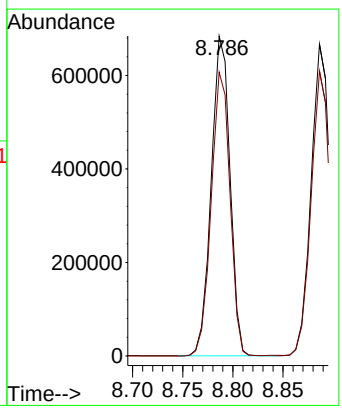


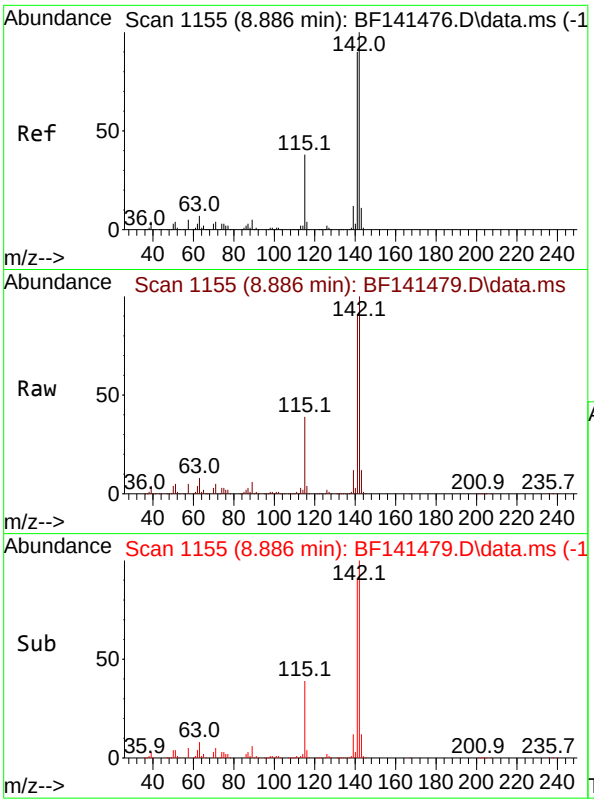


#37
2-Methylnaphthalene
Concen: 76.975 ng
RT: 8.786 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:142 Resp: 889774

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.2	106.8



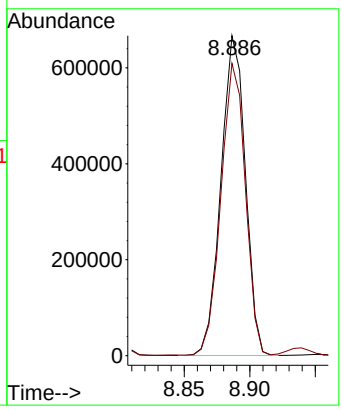


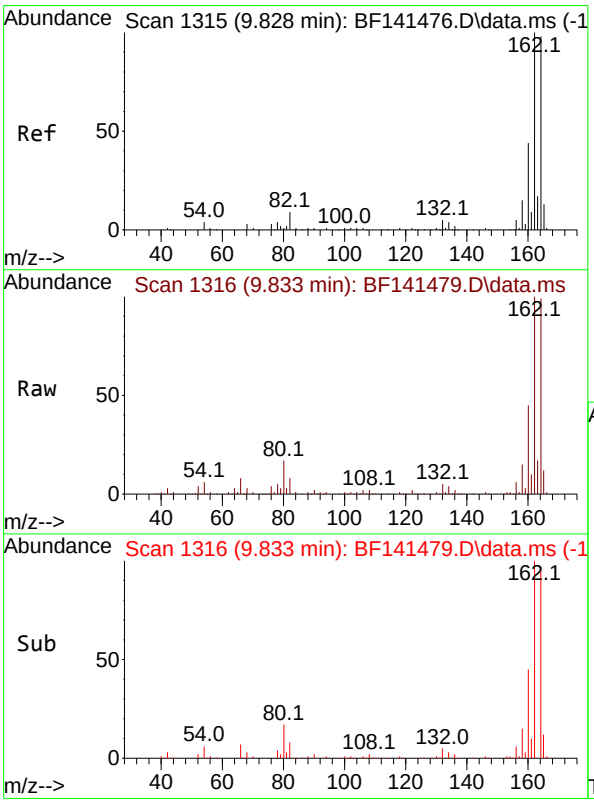
#38
1-Methylnaphthalene
Concen: 76.983 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 861860

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.1	108.1

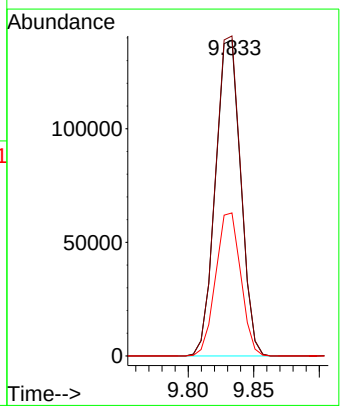


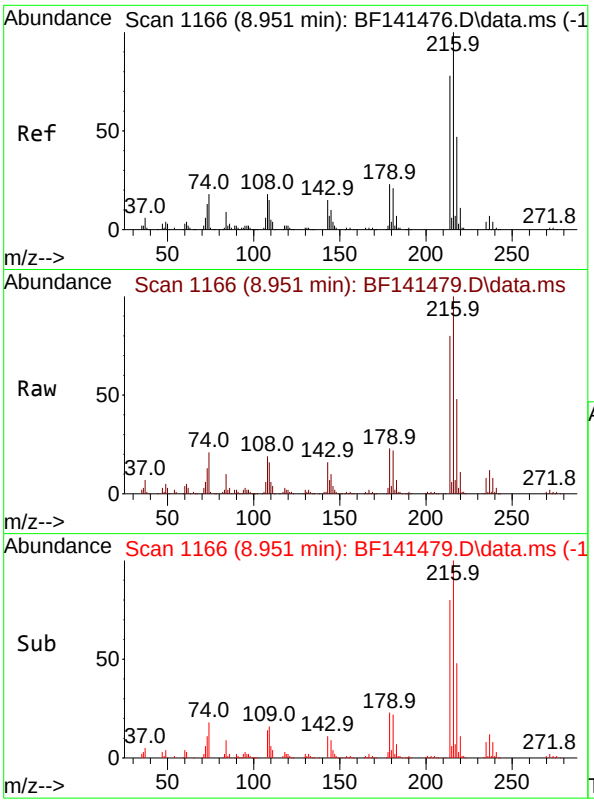


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:164 Resp: 186230

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.3	121.9
160	45.3	35.9	53.9



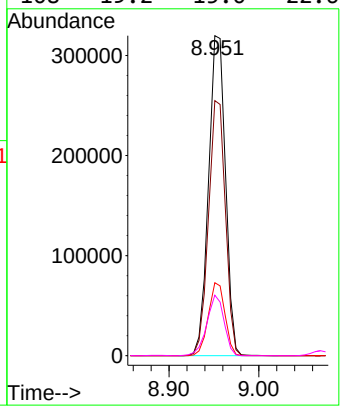


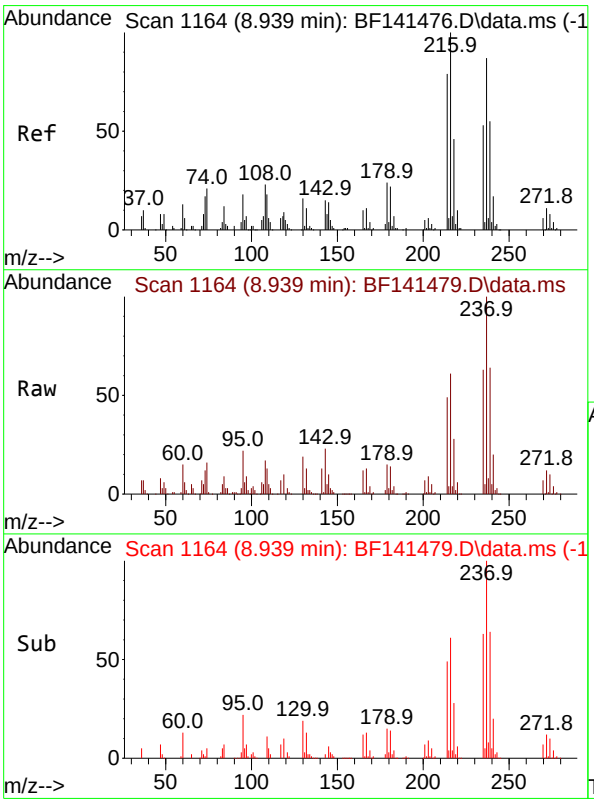
#40
1,2,4,5-Tetrachlorobenzene
Concen: 77.689 ng
RT: 8.951 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:216 Resp: 418579

Ion	Ratio	Lower	Upper
216	100		
214	79.6	62.3	93.5
179	22.4	18.0	27.0
108	19.2	15.0	22.6

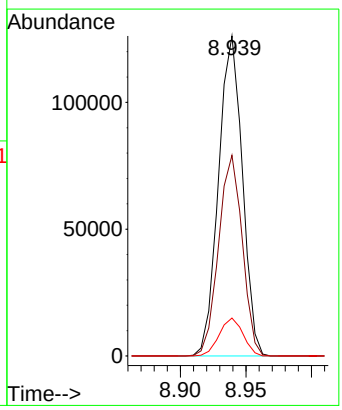


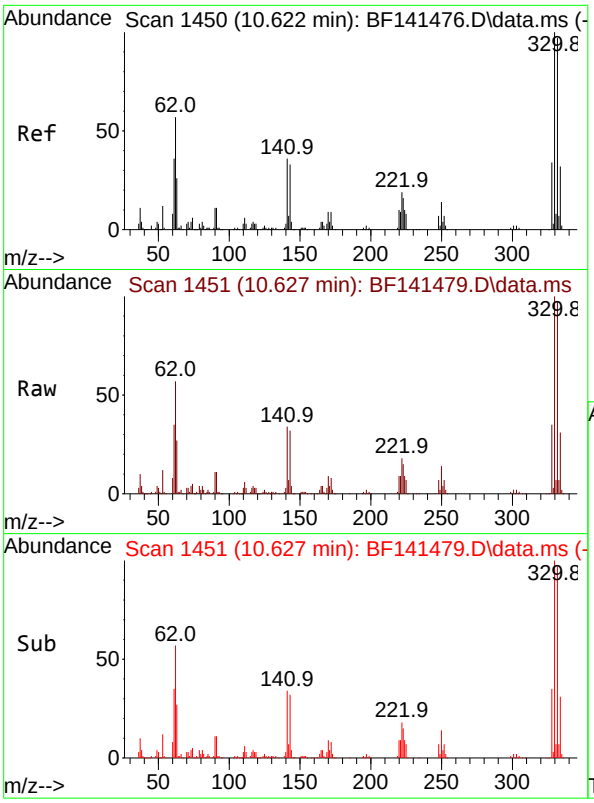


#41
Hexachlorocyclopentadiene
Concen: 88.965 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:237 Resp: 159430

Ion	Ratio	Lower	Upper
237	100		
235	62.7	41.4	81.4
272	11.9	0.0	32.4



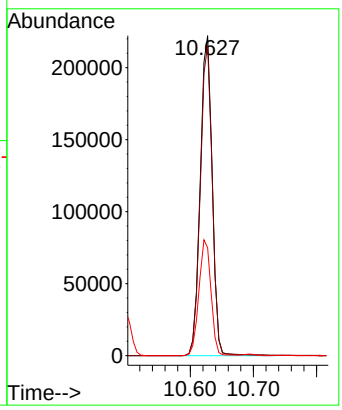


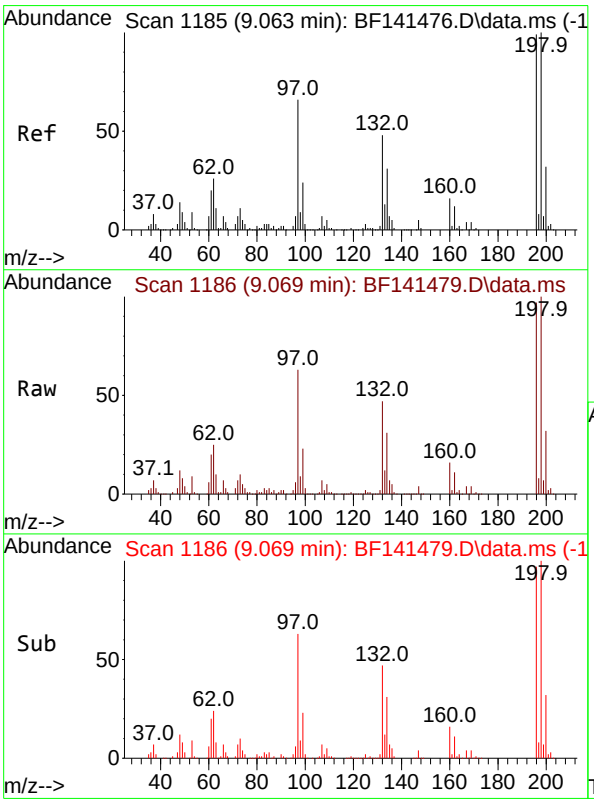
#42
2,4,6-Tribromophenol
Concen: 156.058 ng
RT: 10.627 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:330 Resp: 291947

Ion	Ratio	Lower	Upper
330	100		
332	97.2	78.5	117.7
141	36.6	31.0	46.4

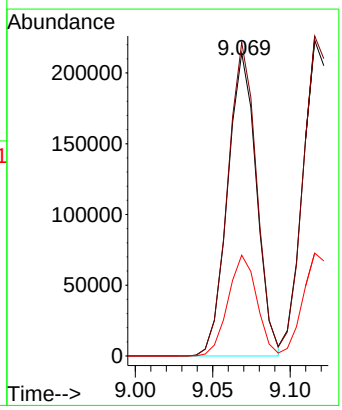


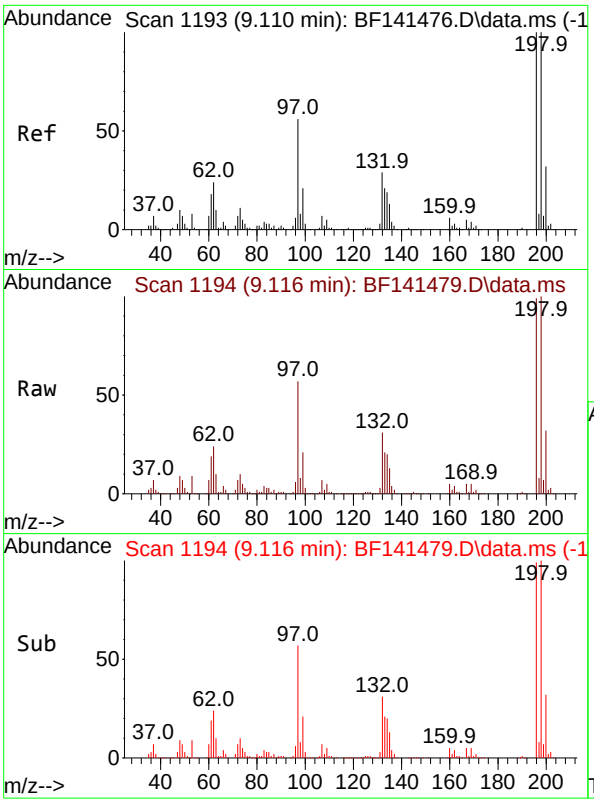


#43
2,4,6-Trichlorophenol
Concen: 79.591 ng
RT: 9.069 min Scan# 1186
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:196 Resp: 277156

Ion	Ratio	Lower	Upper
196	100		
198	103.5	80.6	121.0
200	33.3	25.5	38.3



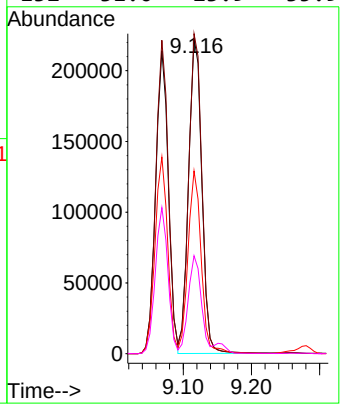


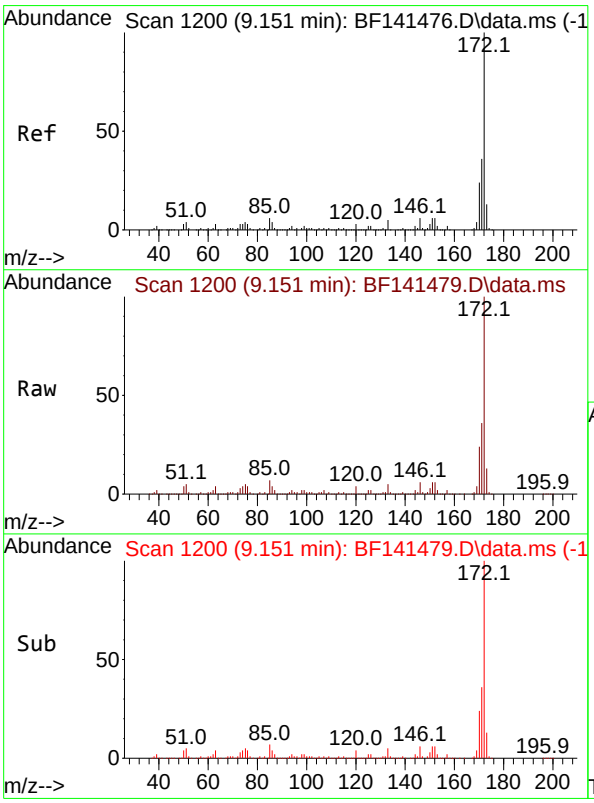
#44
2,4,5-Trichlorophenol
Concen: 79.189 ng
RT: 9.116 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 298856

Ion	Ratio	Lower	Upper
196	100		
198	101.4	79.8	119.8
97	57.9	44.8	67.2
132	31.0	23.9	35.9

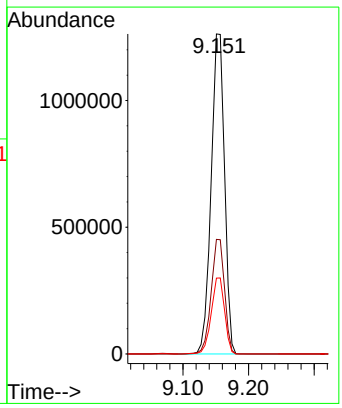


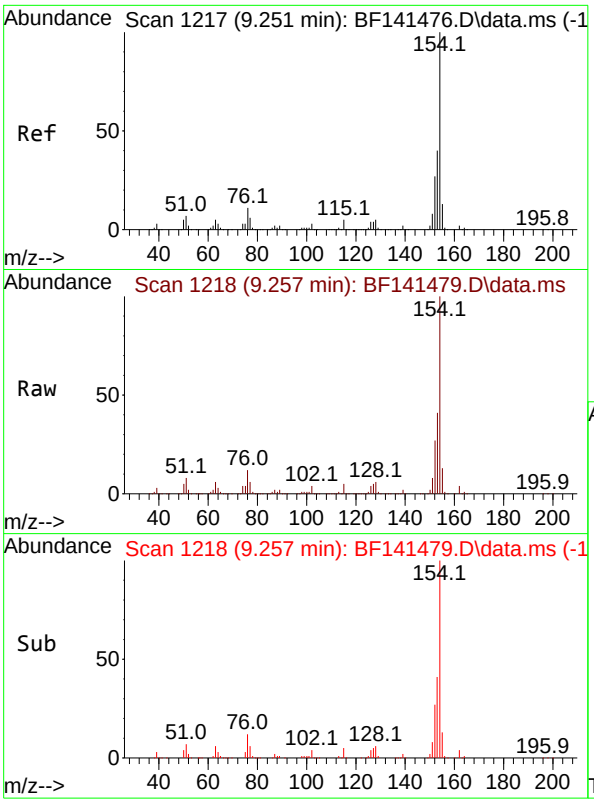


#45
2-Fluorobiphenyl
Concen: 148.066 ng
RT: 9.151 min Scan# 1200
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:172 Resp: 1789795

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.7	43.1
170	23.7	18.9	28.3



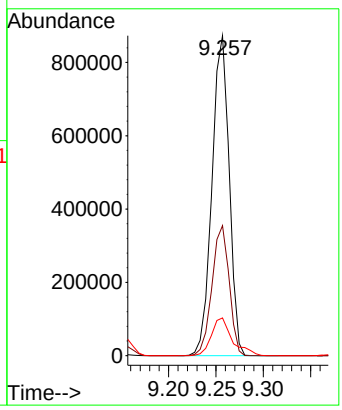


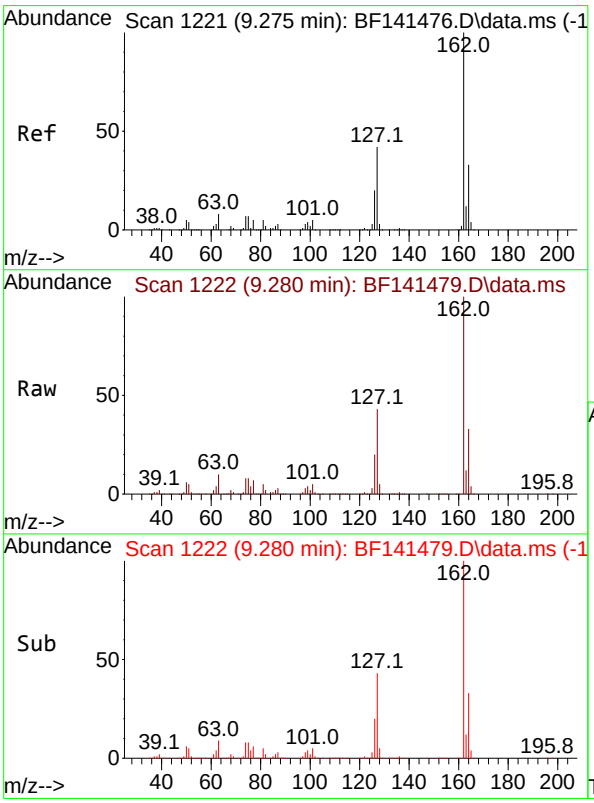
#46
1,1'-Biphenyl
Concen: 76.237 ng
RT: 9.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 1100720

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.4	60.4
76	11.8	0.0	30.8

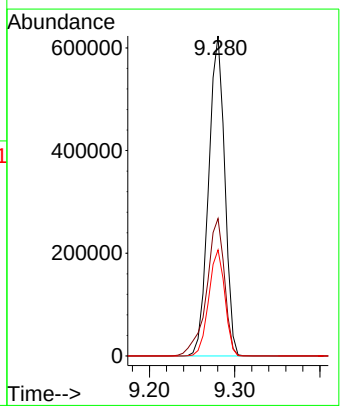


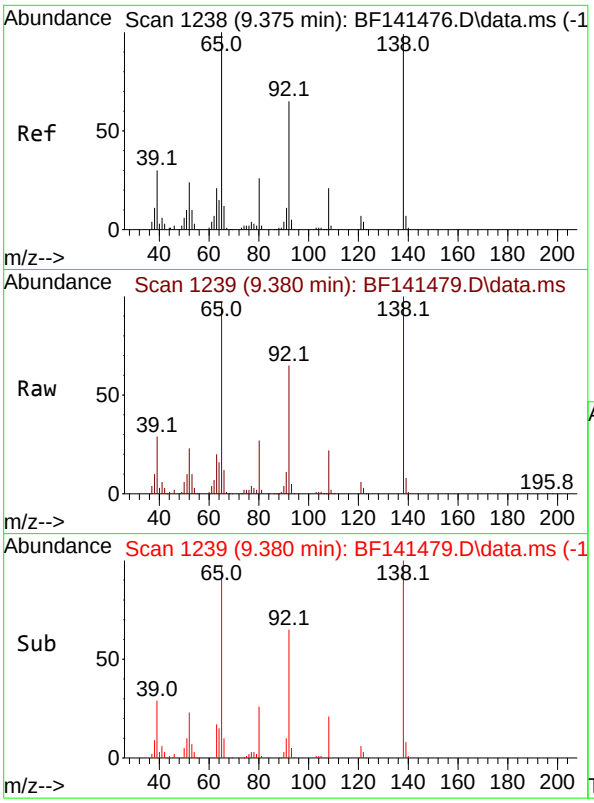


#47
2-Chloronaphthalene
Concen: 76.929 ng
RT: 9.280 min Scan# 1222
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:162 Resp: 821334

Ion	Ratio	Lower	Upper
162	100		
127	43.0	34.1	51.1
164	33.2	26.3	39.5



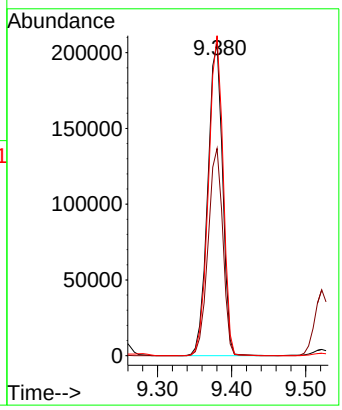


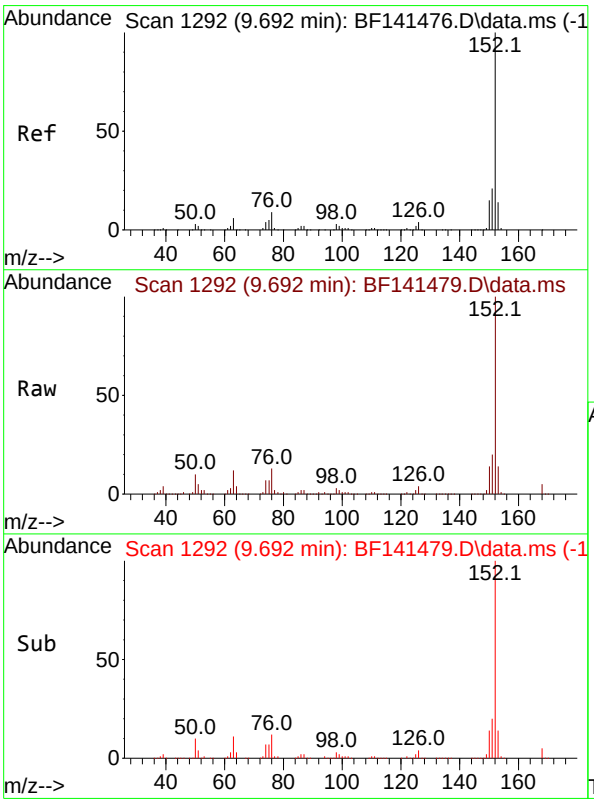
#48
2-Nitroaniline
Concen: 79.969 ng
RT: 9.380 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 65 Resp: 286532

Ion	Ratio	Lower	Upper
65	100		
92	66.4	52.2	78.2
138	102.6	79.5	119.3

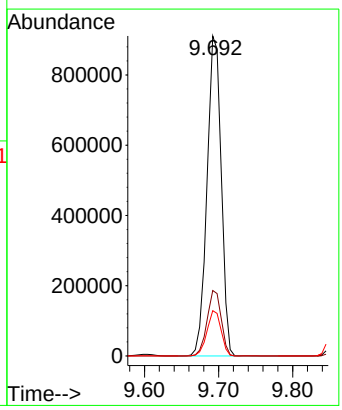


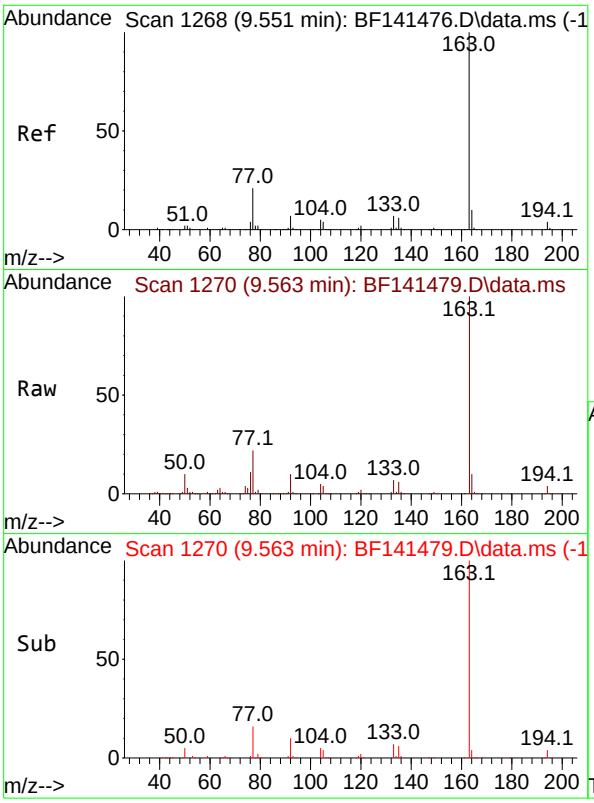


#49
Acenaphthylene
Concen: 76.291 ng
RT: 9.692 min Scan# 1292
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:152 Resp: 1211515

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	14.1	10.9	16.3



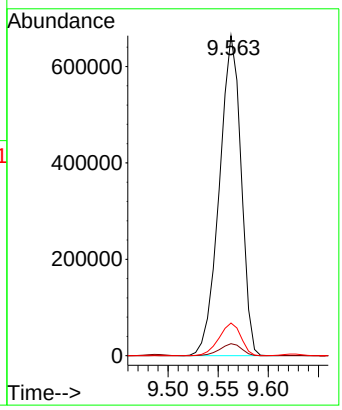


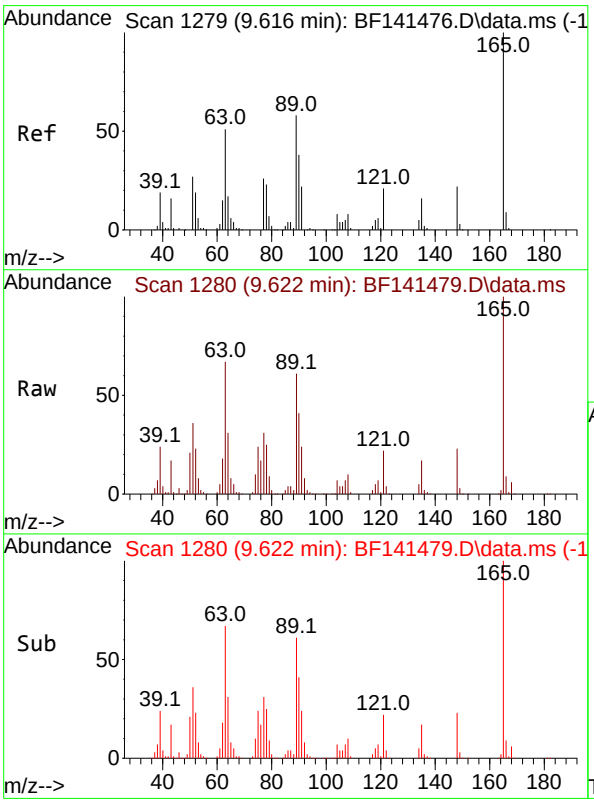
#50
Dimethylphthalate
Concen: 79.265 ng
RT: 9.563 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:163 Resp: 1002121

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.2	7.9	11.9

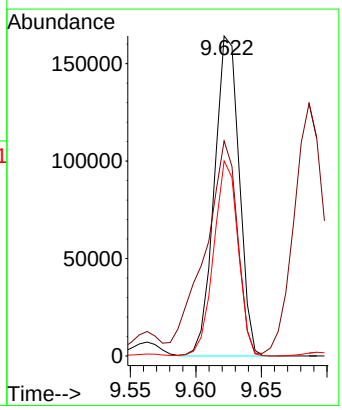


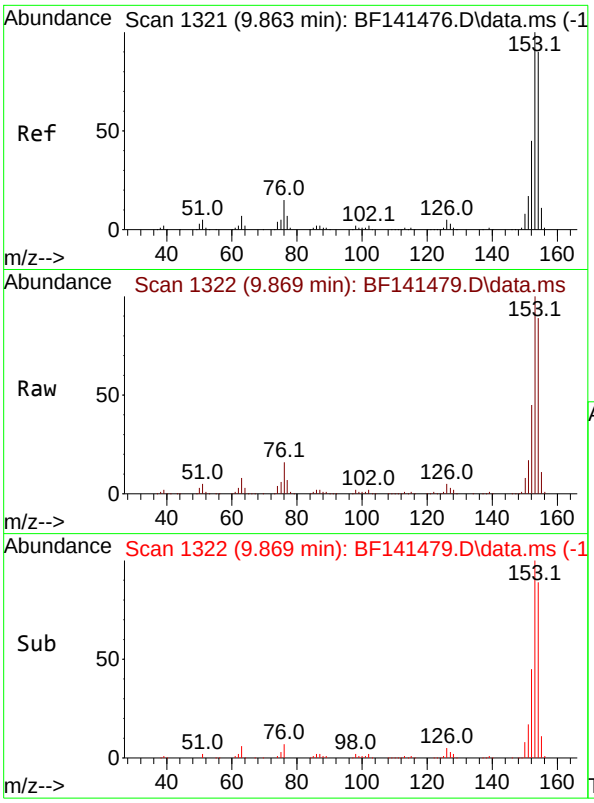


#51
2,6-Dinitrotoluene
Concen: 78.101 ng
RT: 9.622 min Scan# 1280
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:165 Resp: 215853

Ion	Ratio	Lower	Upper
165	100		
63	67.2	49.4	74.0
89	60.9	46.5	69.7



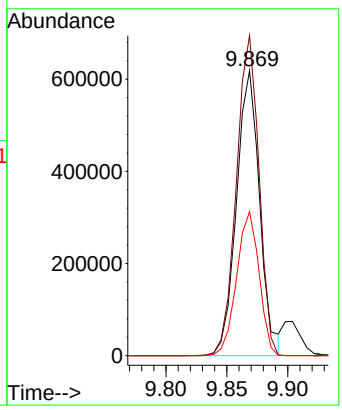


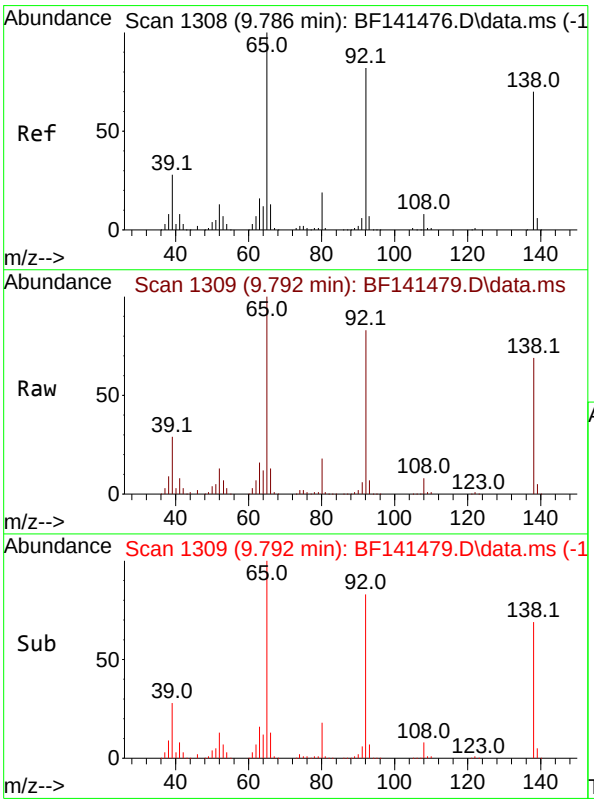
#52
Acenaphthene
Concen: 76.791 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 819818

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.2	133.8
152	50.5	39.8	59.8

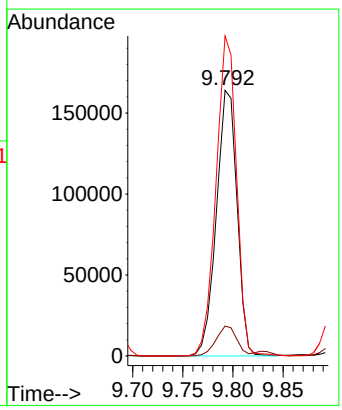


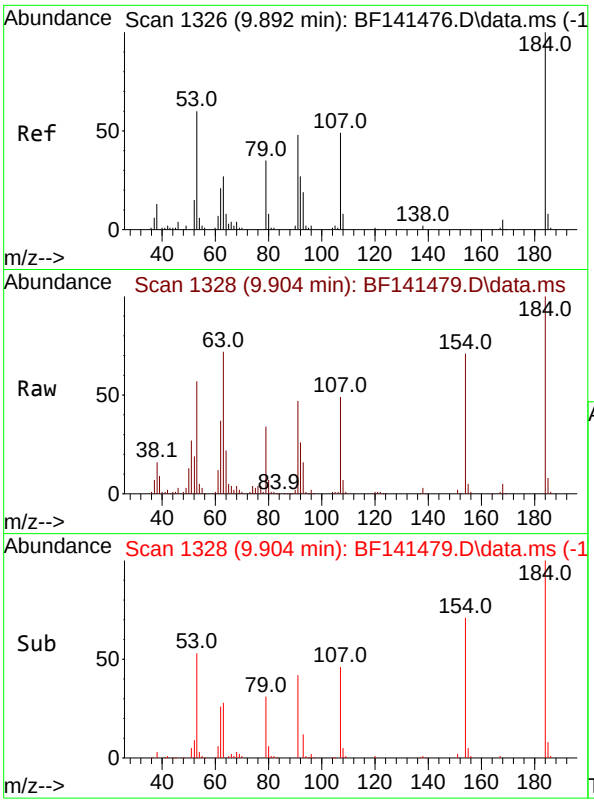


#53
3-Nitroaniline
Concen: 79.173 ng
RT: 9.792 min Scan# 1309
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:138 Resp: 235511

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	120.4	93.7	140.5



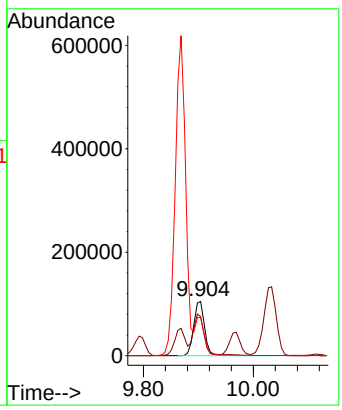


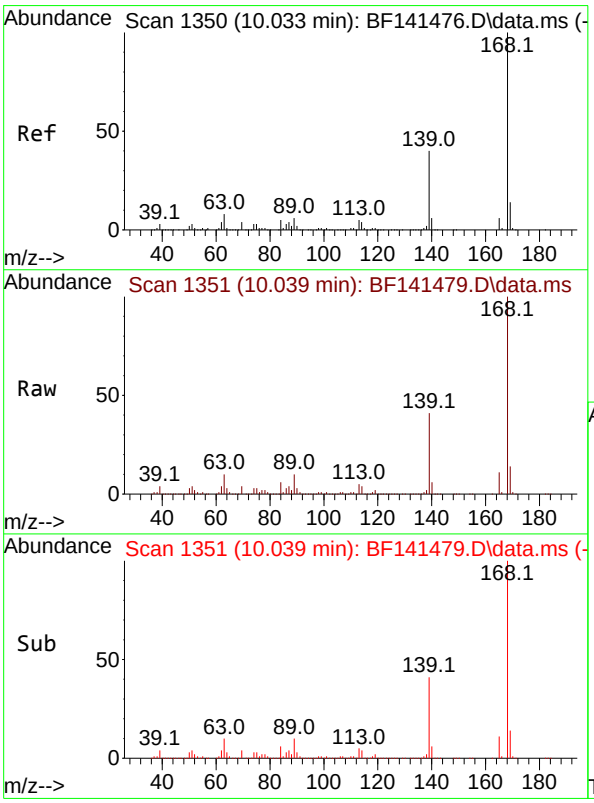
#54
2,4-Dinitrophenol
Concen: 89.960 ng
RT: 9.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 147768

Ion	Ratio	Lower	Upper
184	100		
63	72.1	61.0	91.6
154	70.8	59.9	89.9

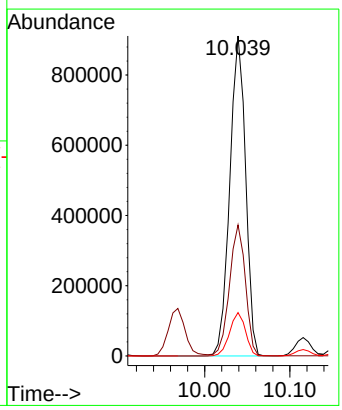


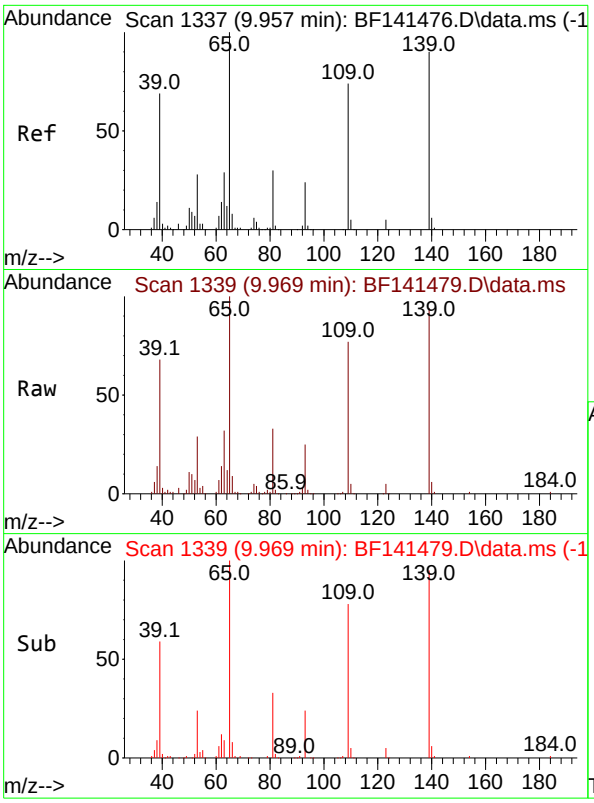


#55
Dibenzofuran
Concen: 74.928 ng
RT: 10.039 min Scan# 1351
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:168 Resp: 1174157

Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.6	10.8	16.2



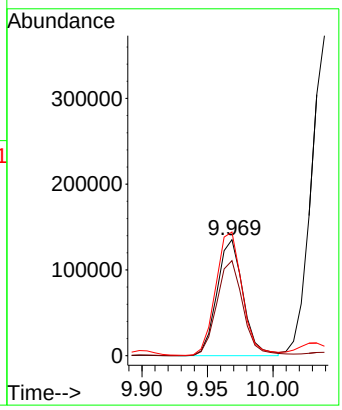


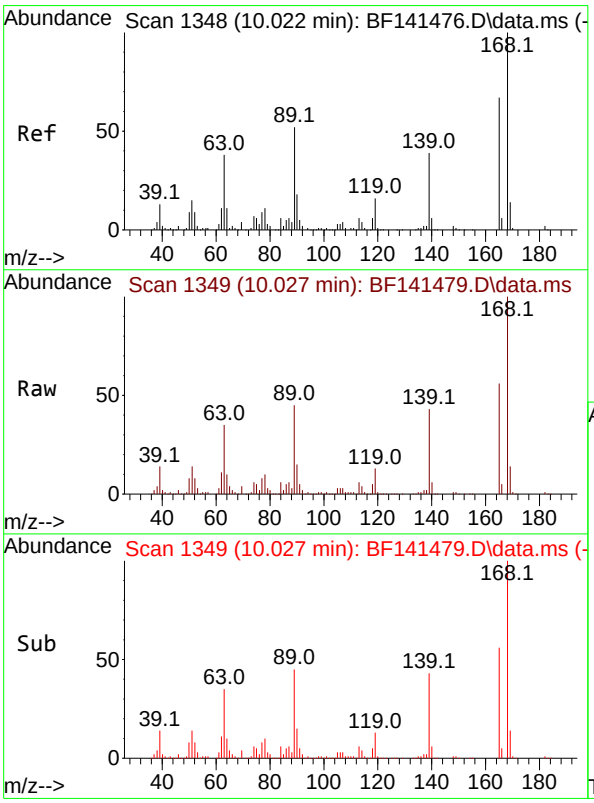
#56
4-Nitrophenol
Concen: 84.744 ng
RT: 9.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 187131

Ion	Ratio	Lower	Upper
139	100		
109	81.9	62.0	102.0
65	106.7	91.2	131.2

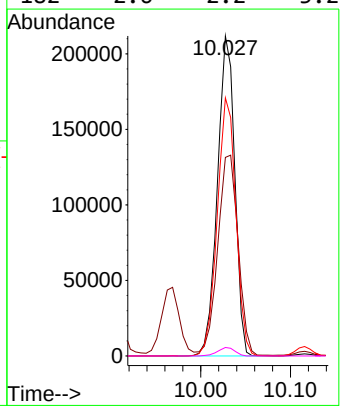


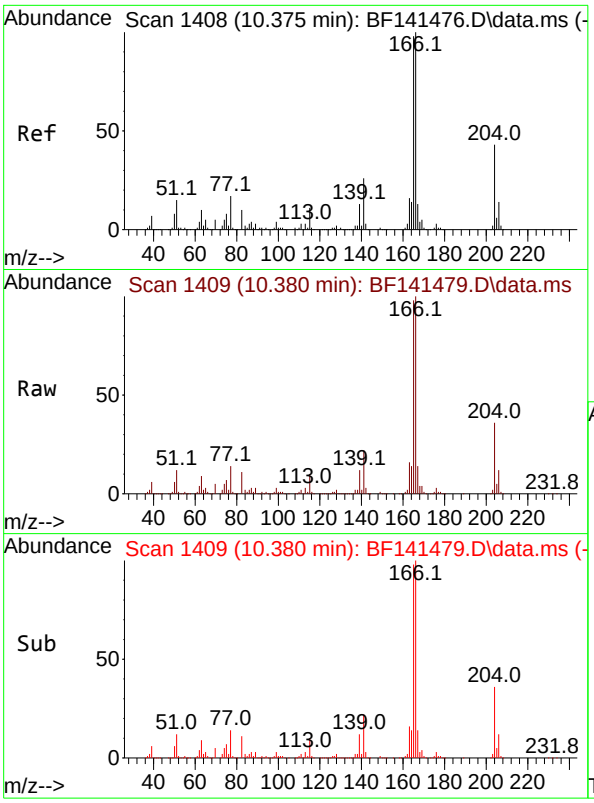


#57
2,4-Dinitrotoluene
Concen: 77.449 ng
RT: 10.027 min Scan# 1349
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:165 Resp: 284954

Ion	Ratio	Lower	Upper
165	100		
63	62.1	46.4	69.6
89	80.7	61.8	92.6
182	2.6	2.2	3.2



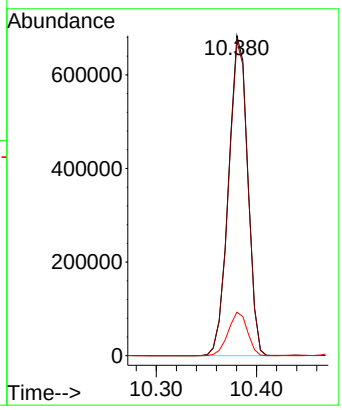


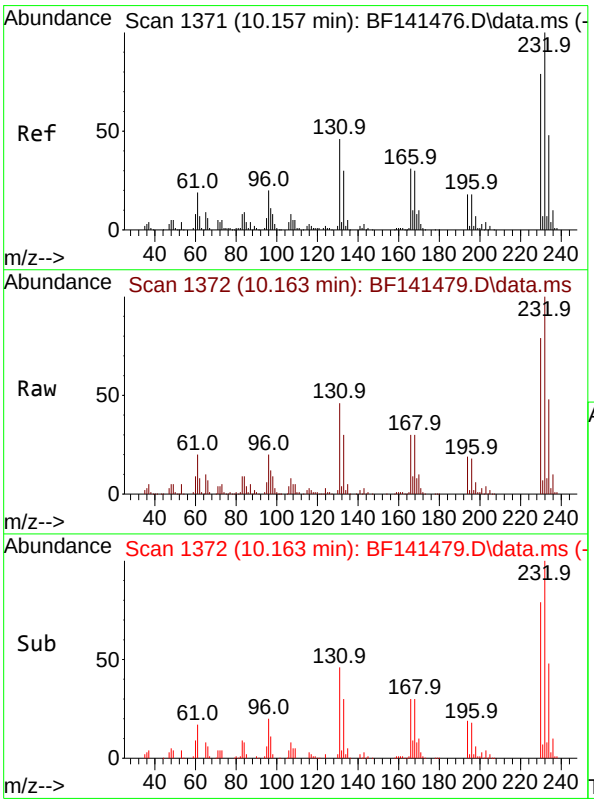
#58
Fluorene
Concen: 75.080 ng
RT: 10.380 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:166 Resp: 909704

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.2	117.2
167	13.6	10.7	16.1

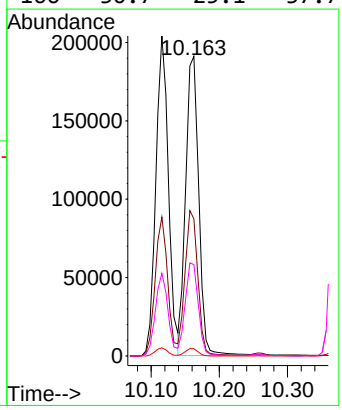


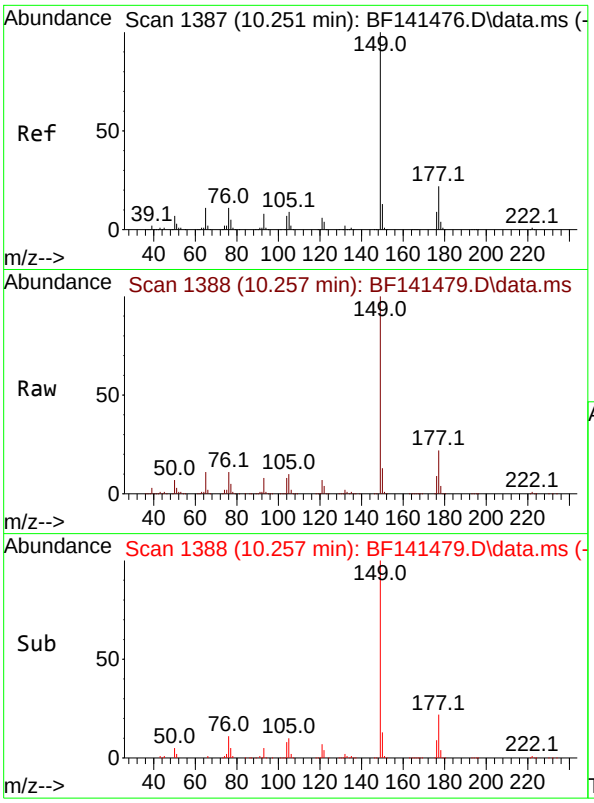


#59
2,3,4,6-Tetrachlorophenol
Concen: 78.006 ng
RT: 10.163 min Scan# 1372
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:232 Resp: 253454

Ion	Ratio	Lower	Upper
232	100		
131	47.1	39.2	58.8
130	2.4	2.1	3.1
166	30.7	25.1	37.7



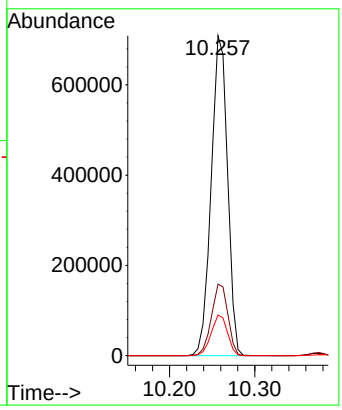


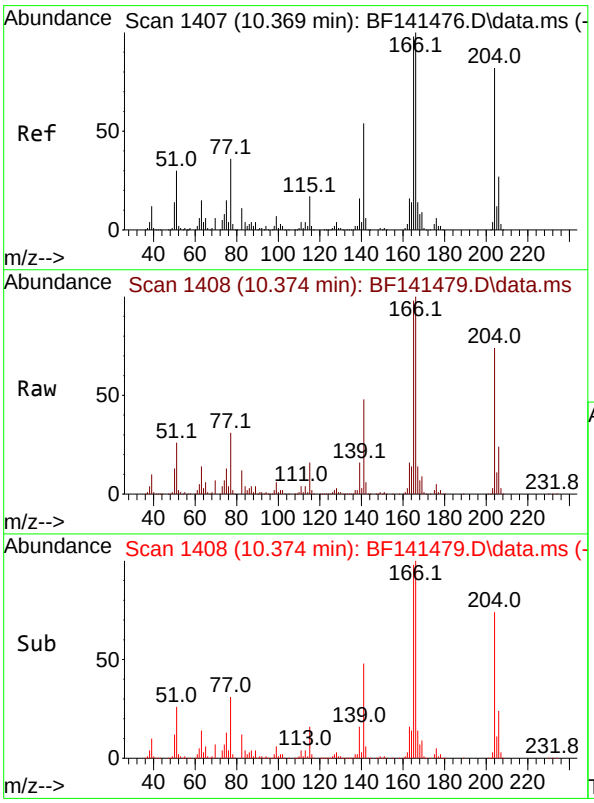
#60
Diethylphthalate
Concen: 75.995 ng
RT: 10.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 945293

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.8	26.6
150	12.7	10.1	15.1

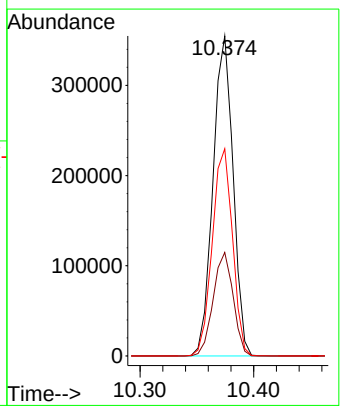


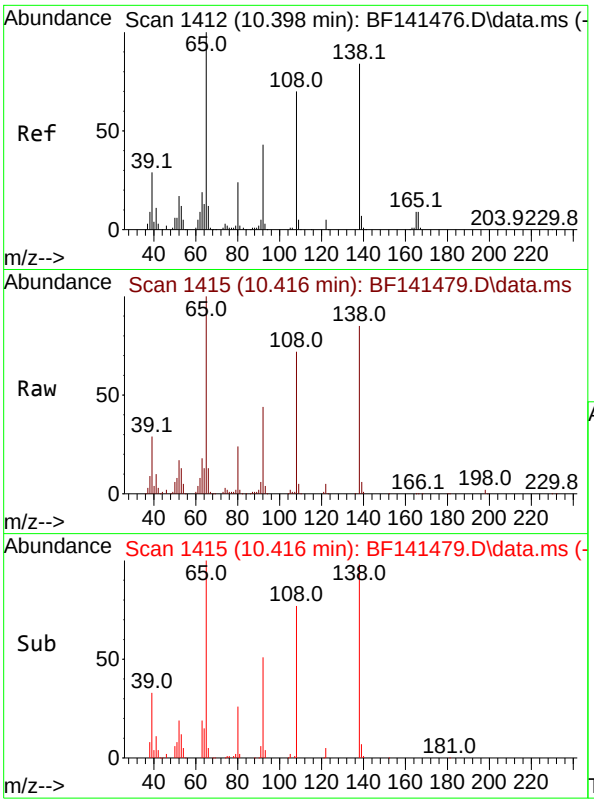


#61
4-Chlorophenyl-phenylether
Concen: 74.716 ng
RT: 10.374 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:204 Resp: 435522

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.6	40.0
141	64.8	51.9	77.9



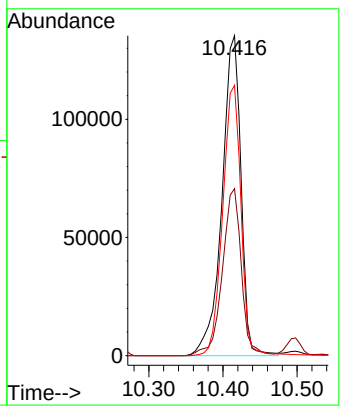


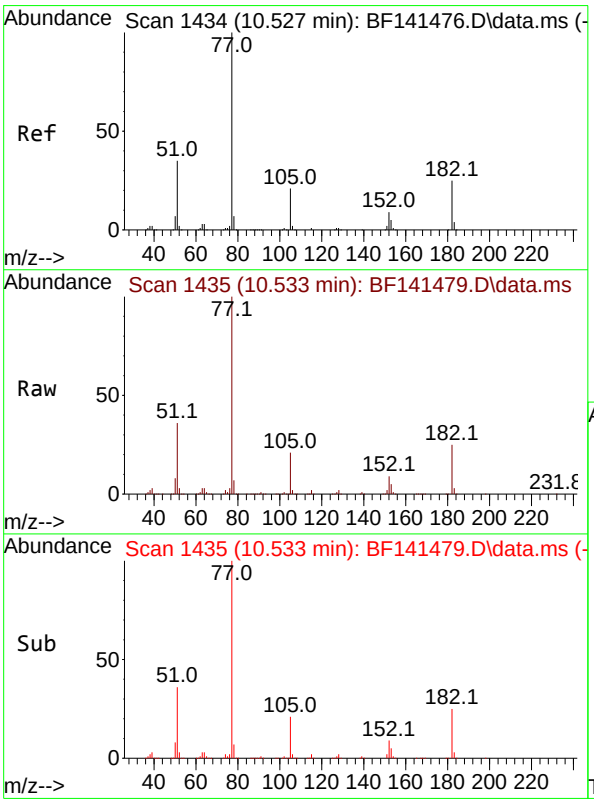
#62
4-Nitroaniline
Concen: 79.873 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 241257

Ion	Ratio	Lower	Upper
138	100		
92	52.2	31.3	71.3
108	84.5	63.7	103.7

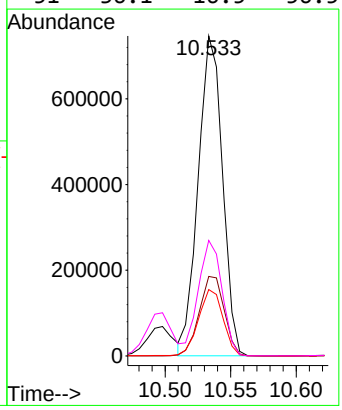


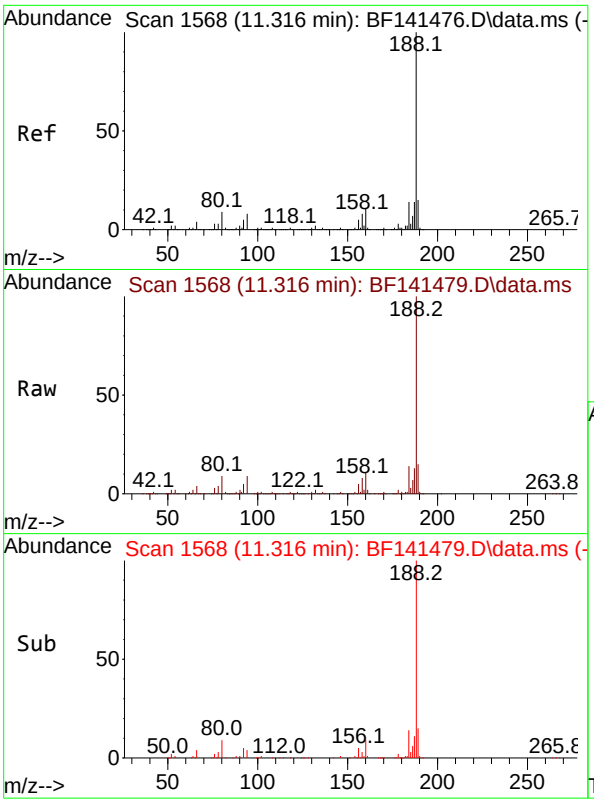


#63
Azobenzene
Concen: 77.931 ng
RT: 10.533 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion: 77 Resp: 963689

Ion	Ratio	Lower	Upper
77	100		
182	24.9	4.7	44.7
105	20.8	0.4	40.4
51	36.1	16.5	56.5



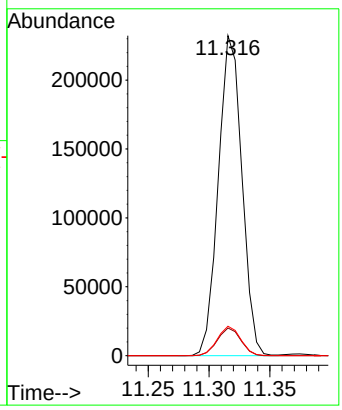


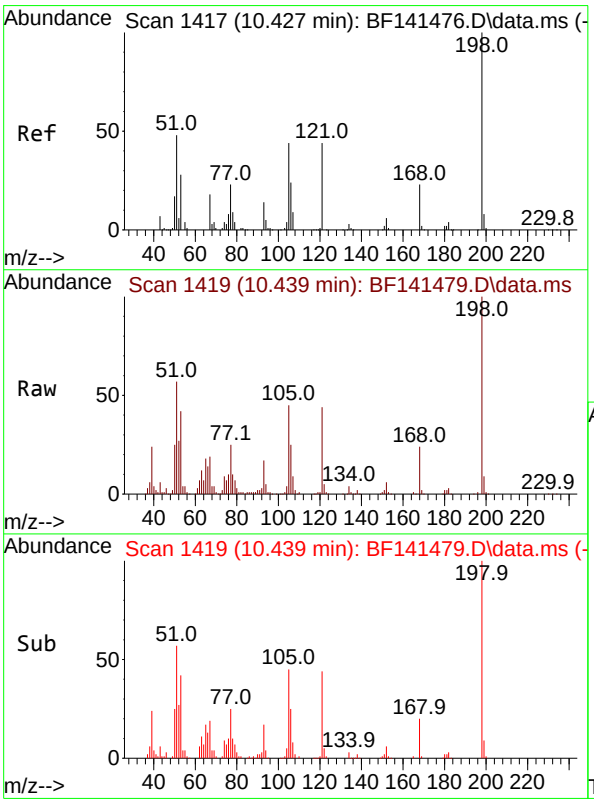
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:188 Resp: 312902

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.6	10.0
80	9.2	7.3	10.9

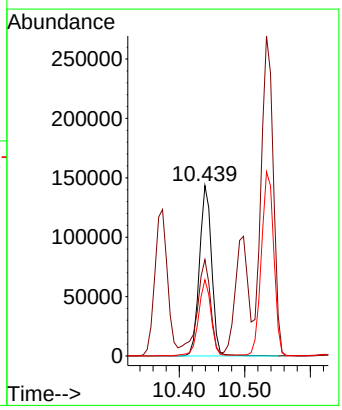


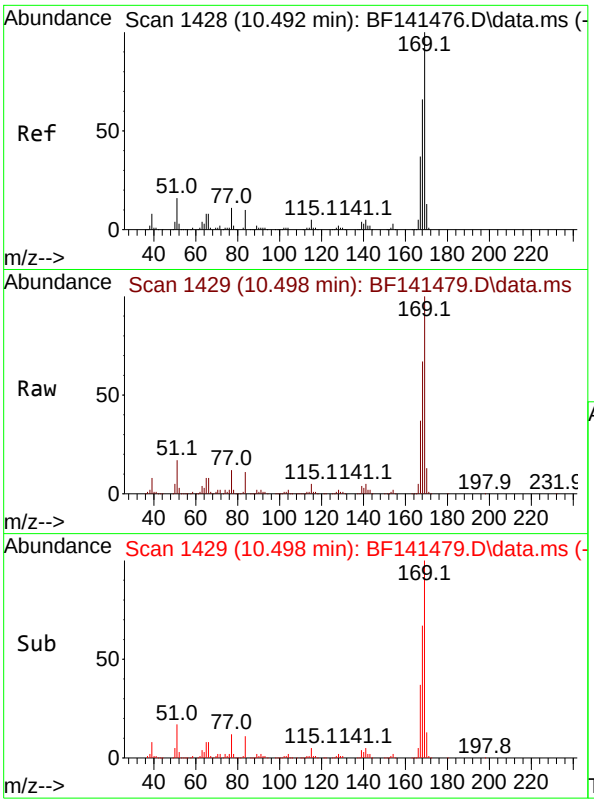


#65
4,6-Dinitro-2-methylphenol
Concen: 85.309 ng
RT: 10.439 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:198 Resp: 185427

Ion	Ratio	Lower	Upper
198	100		
51	56.6	37.4	77.4
105	44.7	25.2	65.2



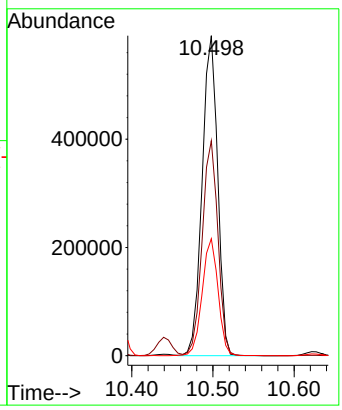


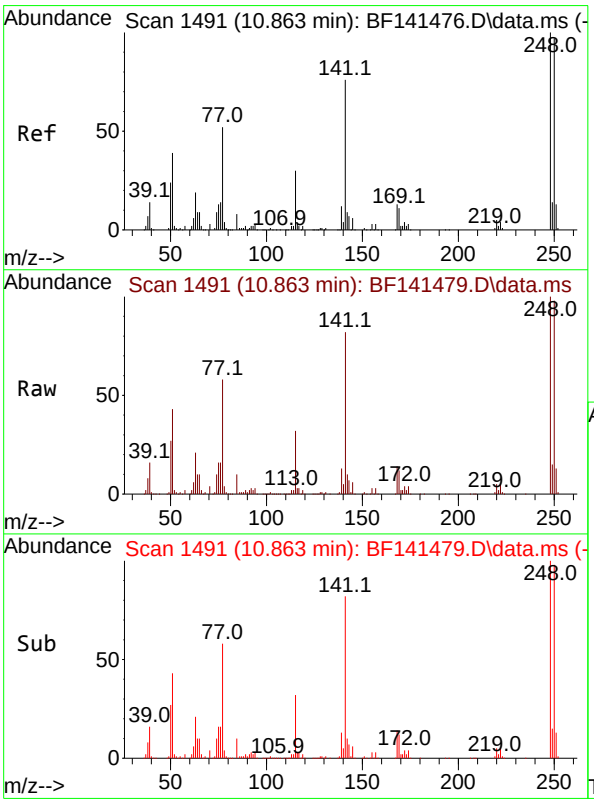
#66
n-Nitrosodiphenylamine
Concen: 78.404 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:169 Resp: 785313

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.3	79.9
167	36.6	29.4	44.2

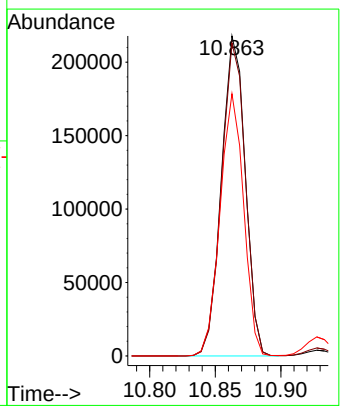


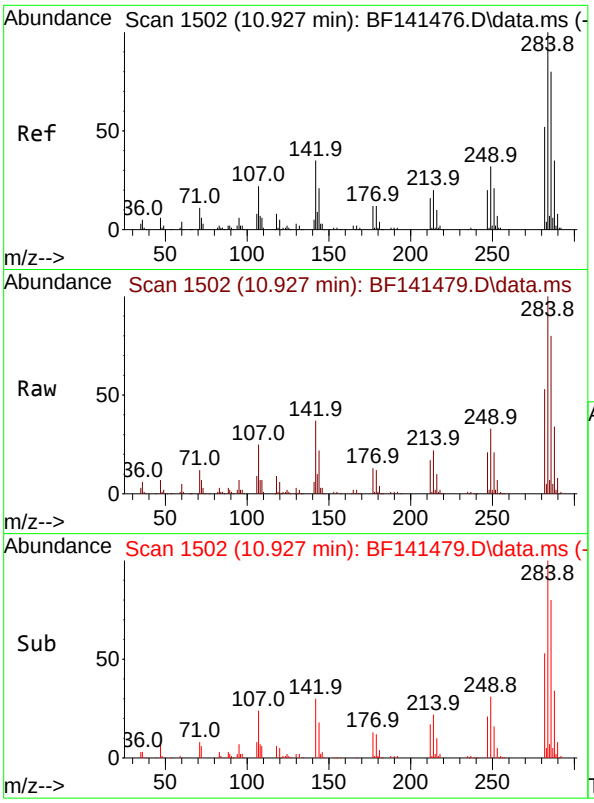


#67
4-Bromophenyl-phenylether
Concen: 78.988 ng
RT: 10.863 min Scan# 1491
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:248 Resp: 276228

Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.8	116.6
141	81.9	60.6	90.8



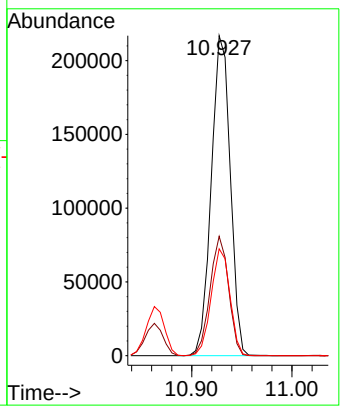


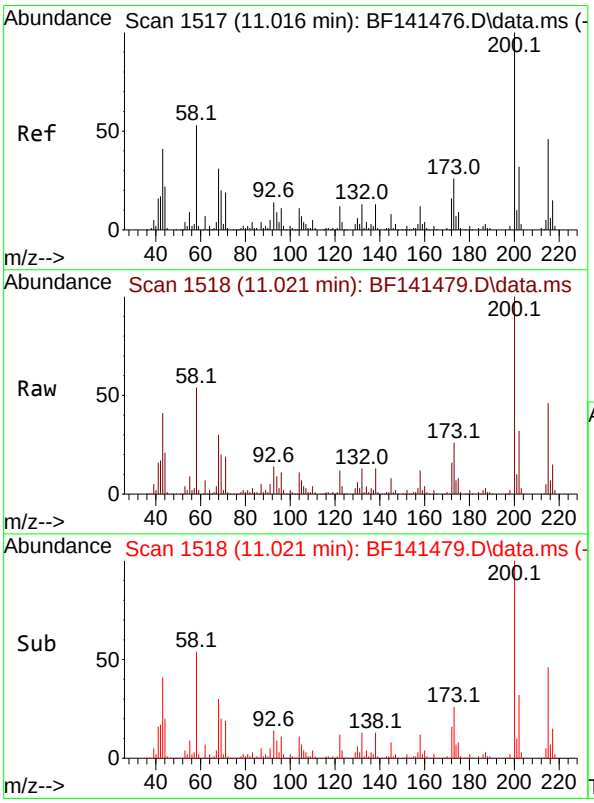
#68
Hexachlorobenzene
Concen: 79.174 ng
RT: 10.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:284 Resp: 285111

Ion	Ratio	Lower	Upper
284	100		
142	37.3	28.0	42.0
249	33.4	25.8	38.8

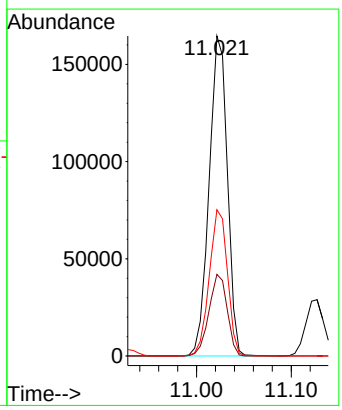


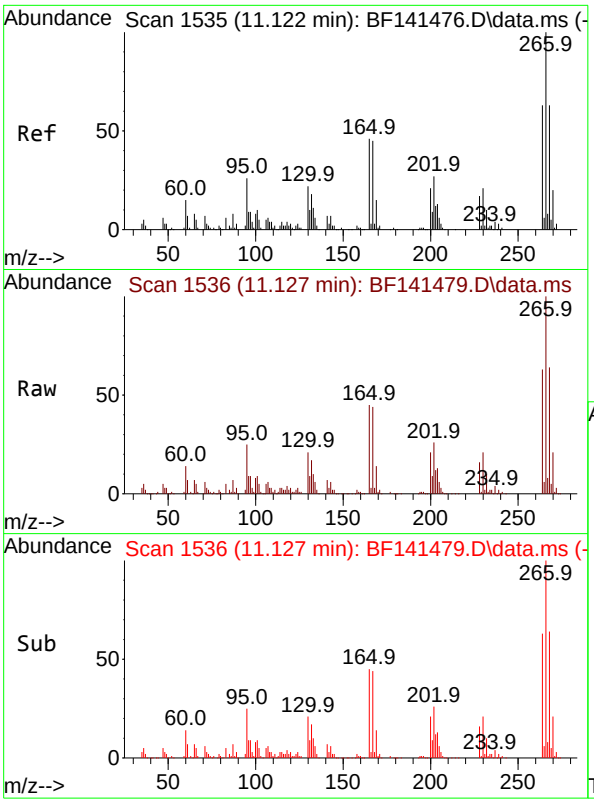


#69
Atrazine
Concen: 73.188 ng
RT: 11.021 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:200 Resp: 219923

Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.9	45.9
215	45.7	25.9	65.9



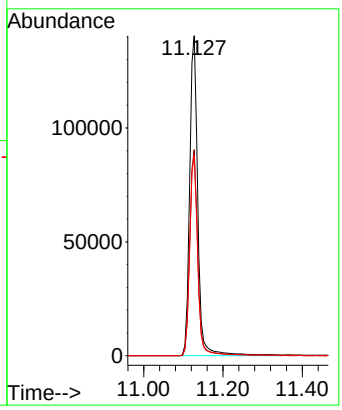


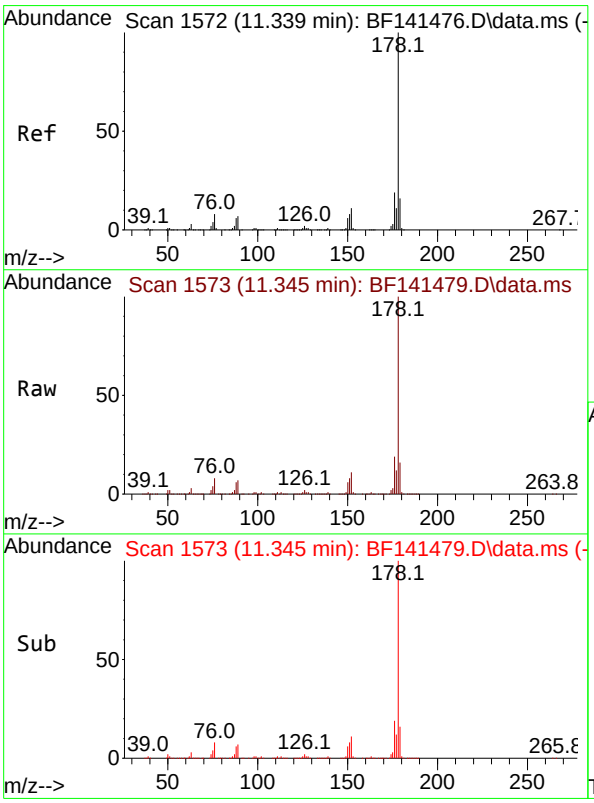
#70
Pentachlorophenol
Concen: 87.100 ng
RT: 11.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:266 Resp: 200556

Ion	Ratio	Lower	Upper
266	100		
268	64.4	50.1	75.1
264	62.5	50.1	75.1

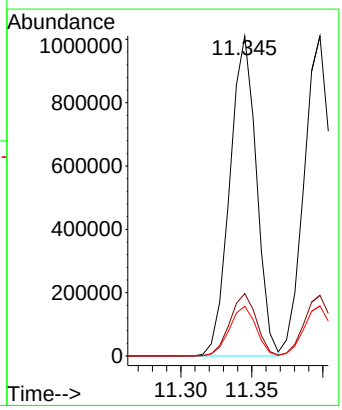


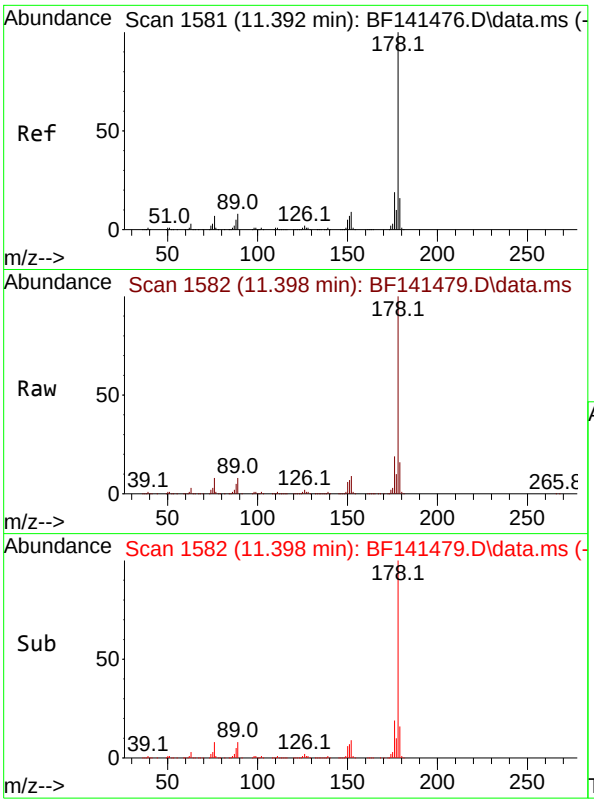


#71
Phenanthrene
Concen: 76.201 ng
RT: 11.345 min Scan# 1573
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:178 Resp: 1312474

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.0
179	15.6	12.4	18.6



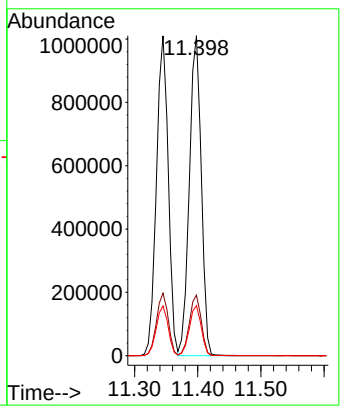


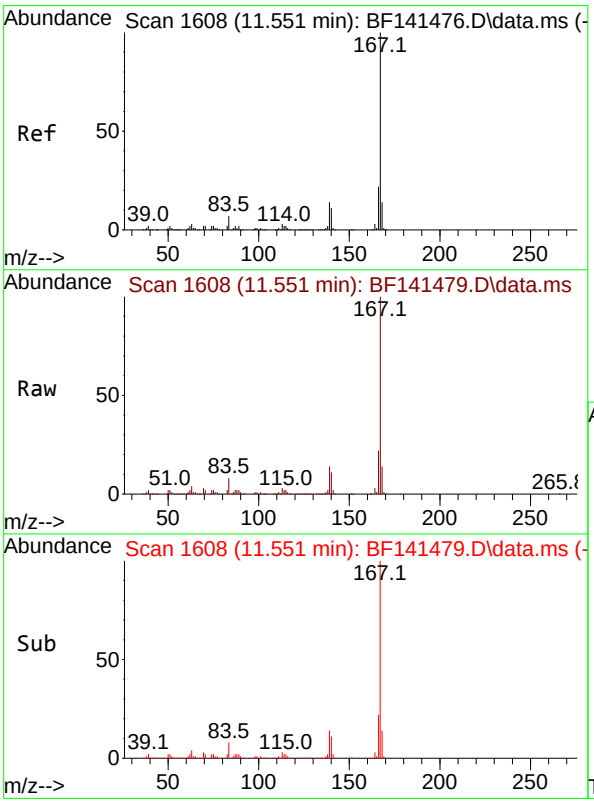
#72
Anthracene
Concen: 76.380 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1322462

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.8	22.2
179	15.6	12.4	18.6

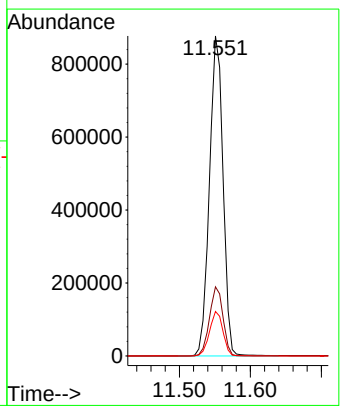


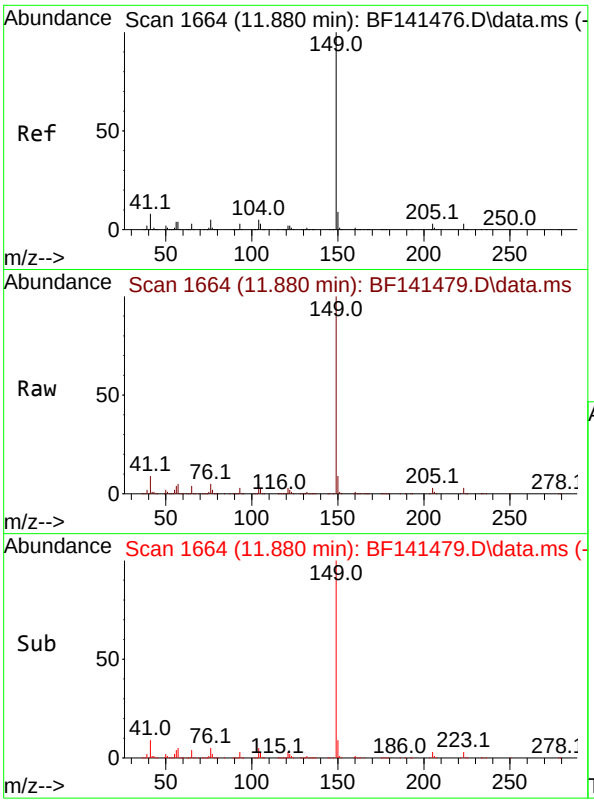


#73
Carbazole
Concen: 74.989 ng
RT: 11.551 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:167 Resp: 1168253

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.9	10.9	16.3



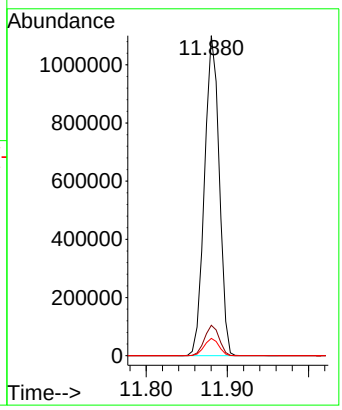


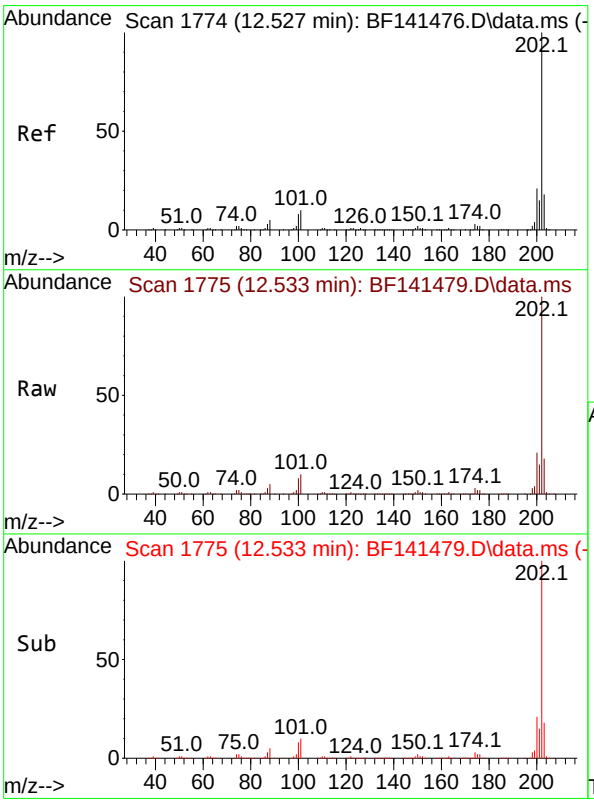
#74
Di-n-butylphthalate
Concen: 76.865 ng
RT: 11.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1382706

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.0
104	5.4	4.2	6.2

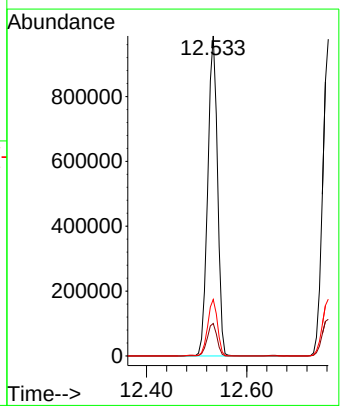


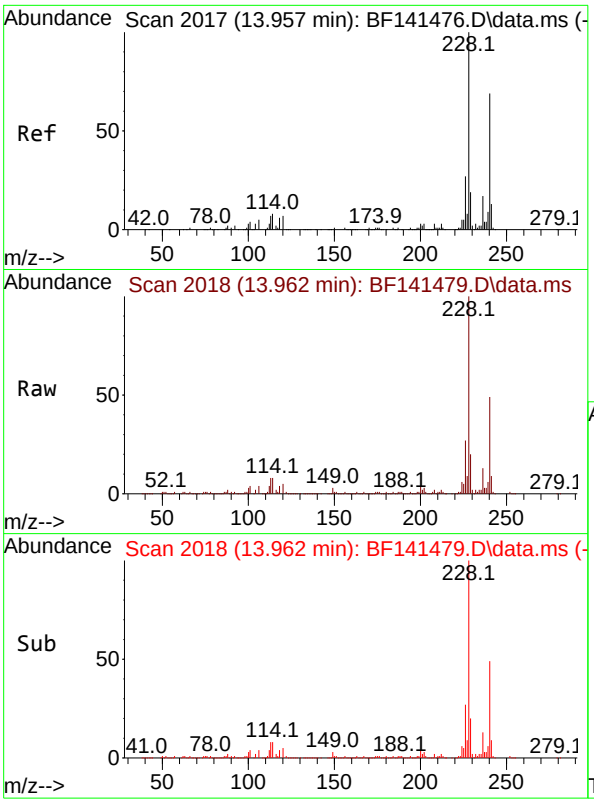


#75
Fluoranthene
Concen: 73.011 ng
RT: 12.533 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:202 Resp: 1333237

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.6	0.0	37.6



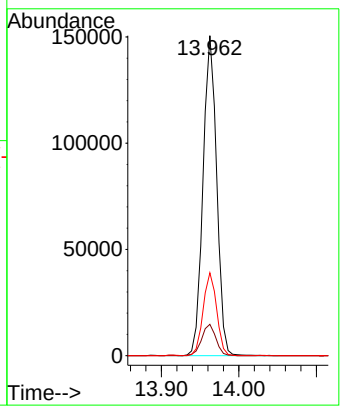


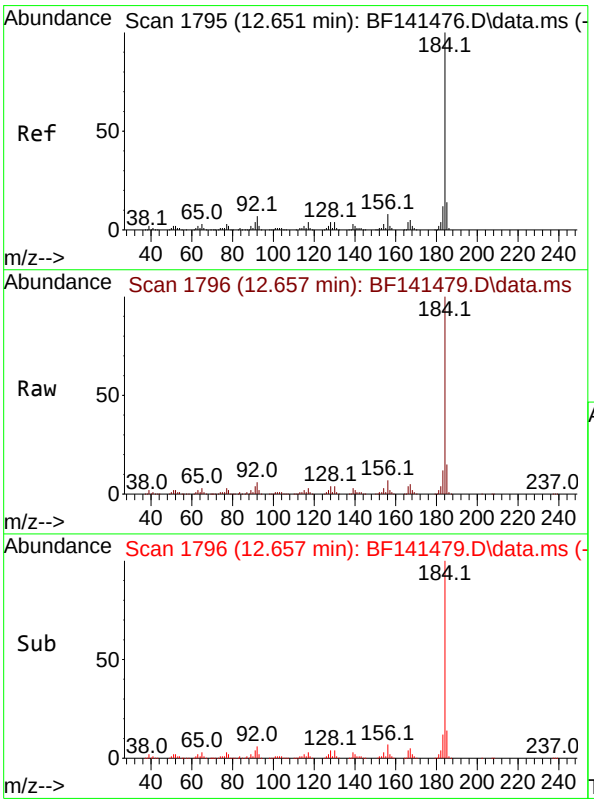
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:240 Resp: 184347

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	25.9	19.8	29.8

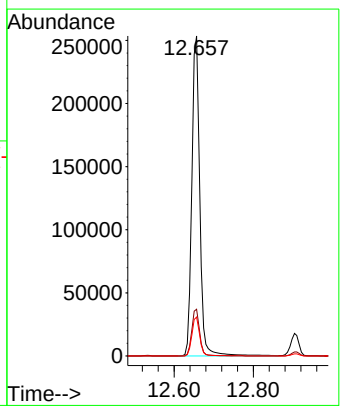


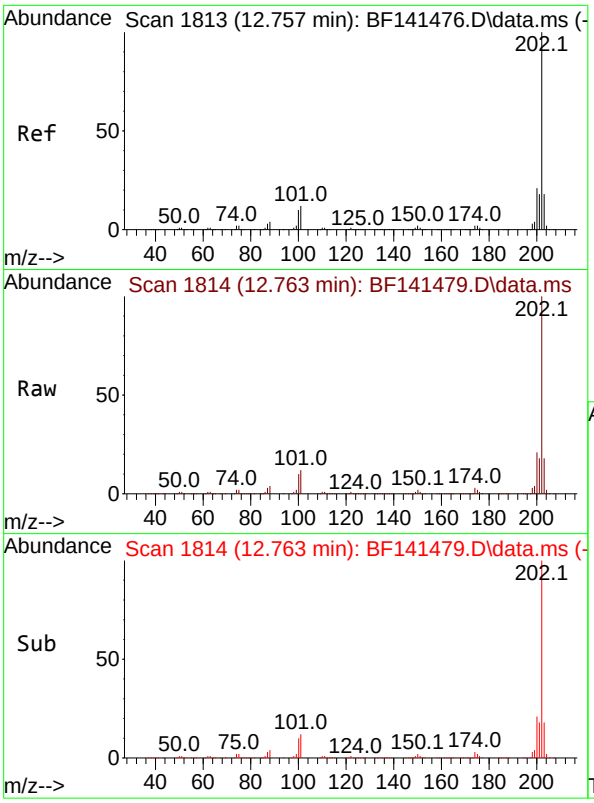


#77
Benzidine
Concen: 87.207 ng
RT: 12.657 min Scan# 1796
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:184 Resp: 354555

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.3	16.9
183	12.1	9.3	13.9



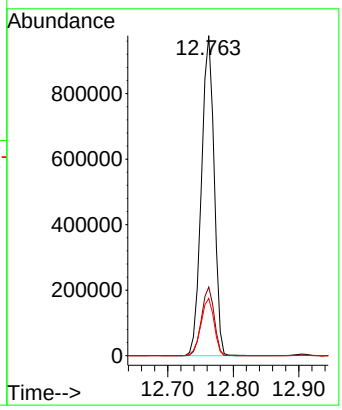


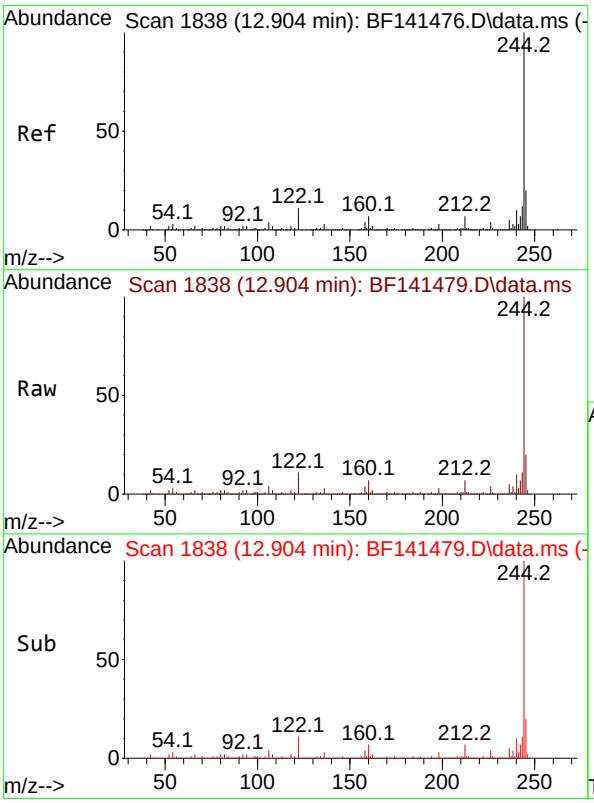
#78
Pyrene
Concen: 84.086 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 1319554

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.4
203	17.9	14.3	21.5

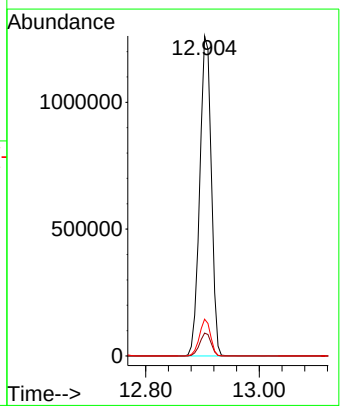


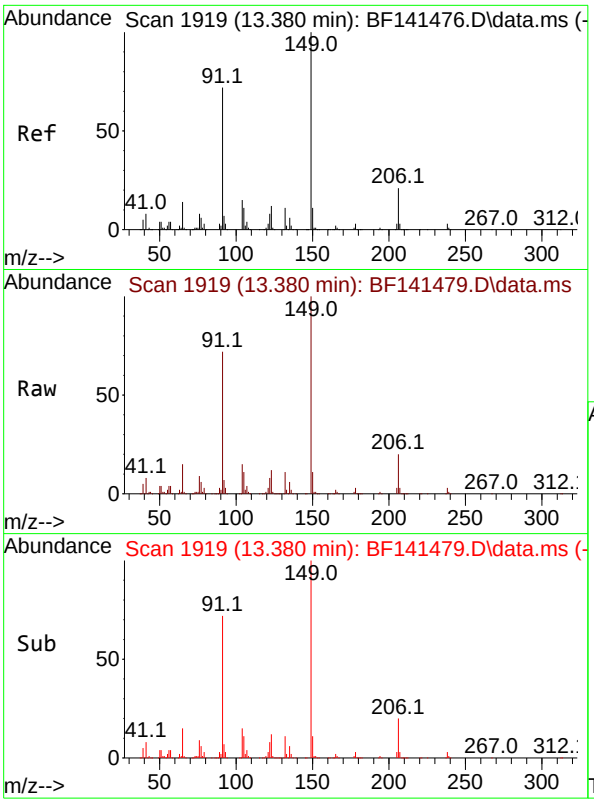


#79
Terphenyl-d14
Concen: 163.152 ng
RT: 12.904 min Scan# 1838
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:244 Resp: 1781602

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	11.5	8.4	12.6



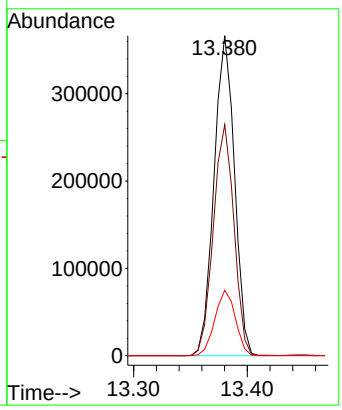


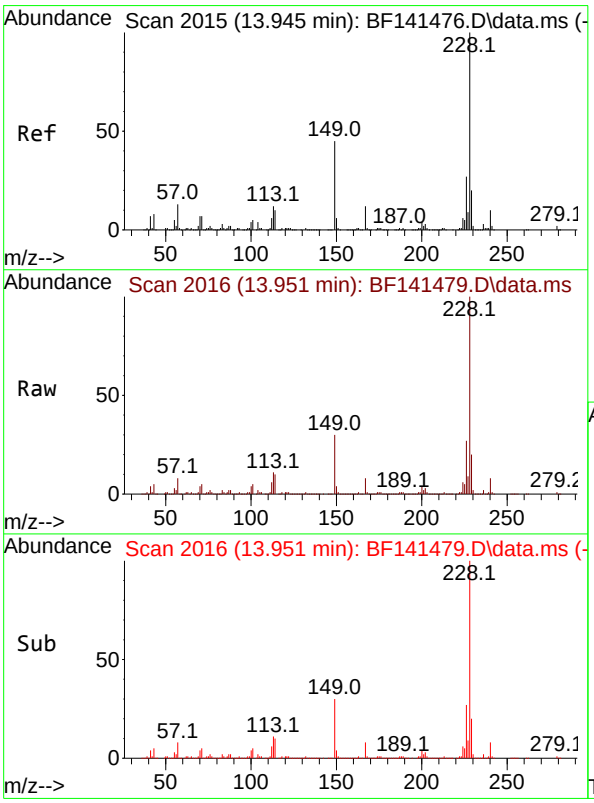
#80
Butylbenzylphthalate
Concen: 84.592 ng
RT: 13.380 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 459803

Ion	Ratio	Lower	Upper
149	100		
91	72.2	57.8	86.8
206	20.4	16.7	25.1

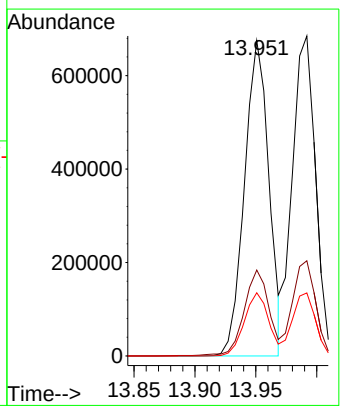


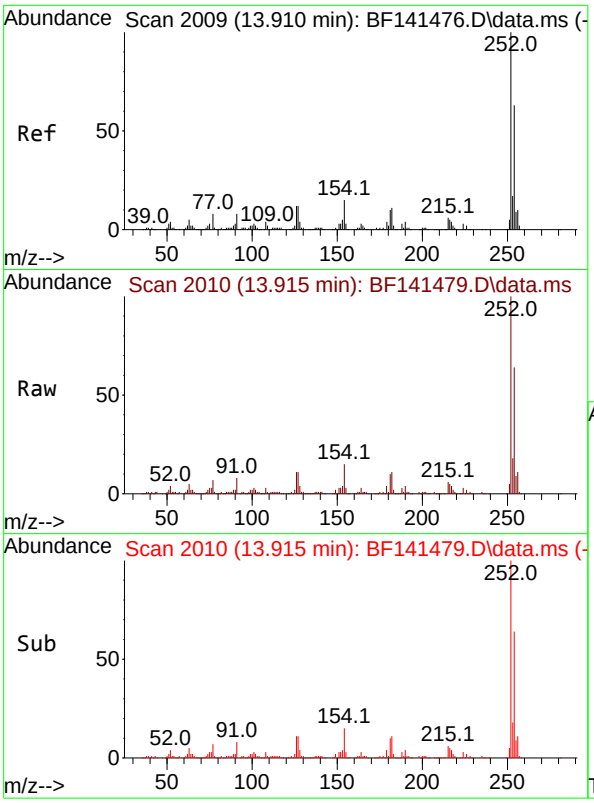


#81
Benzo(a)anthracene
Concen: 76.977 ng
RT: 13.951 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:228 Resp: 943291

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	20.0	15.8	23.6



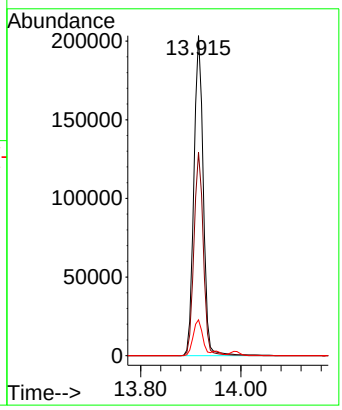


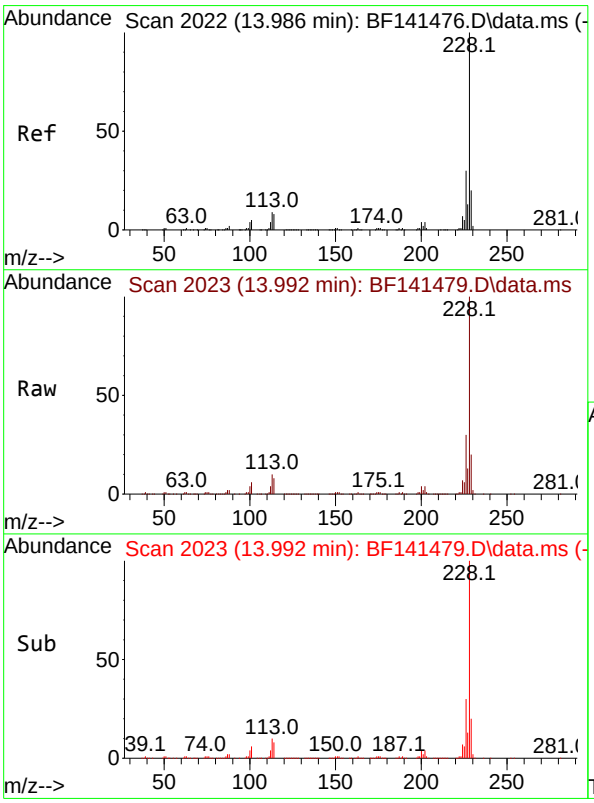
#82
3,3'-Dichlorobenzidine
Concen: 75.143 ng
RT: 13.915 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 263773

Ion	Ratio	Lower	Upper
252	100		
254	63.6	50.6	76.0
126	11.2	9.3	13.9

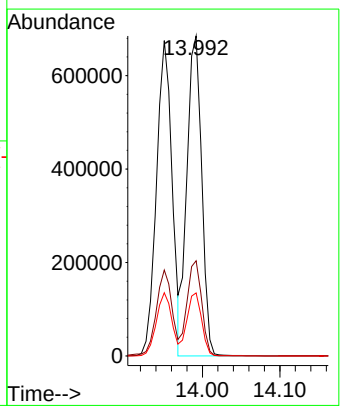


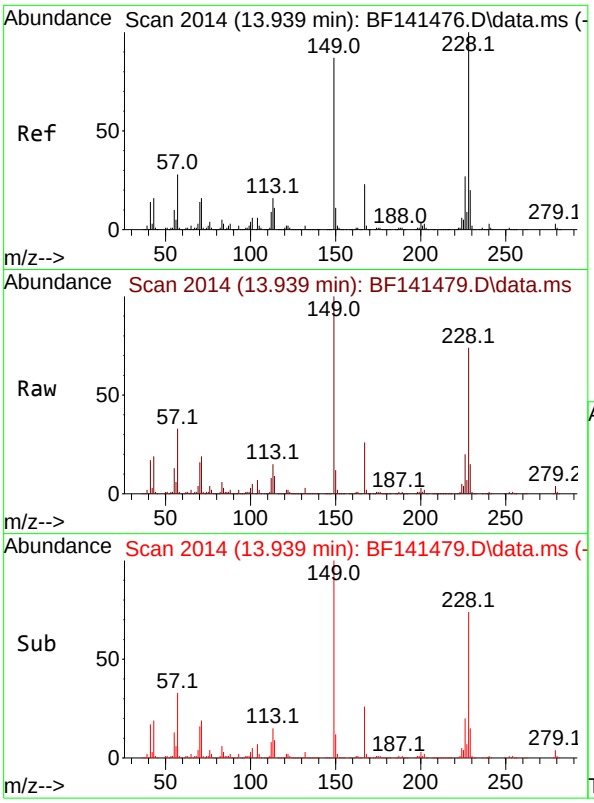


#83
Chrysene
Concen: 80.108 ng
RT: 13.992 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:228 Resp: 906415

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.0	36.0
229	19.7	15.7	23.5



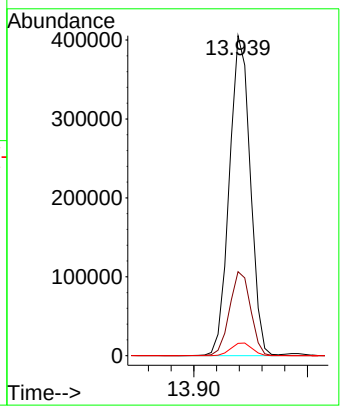


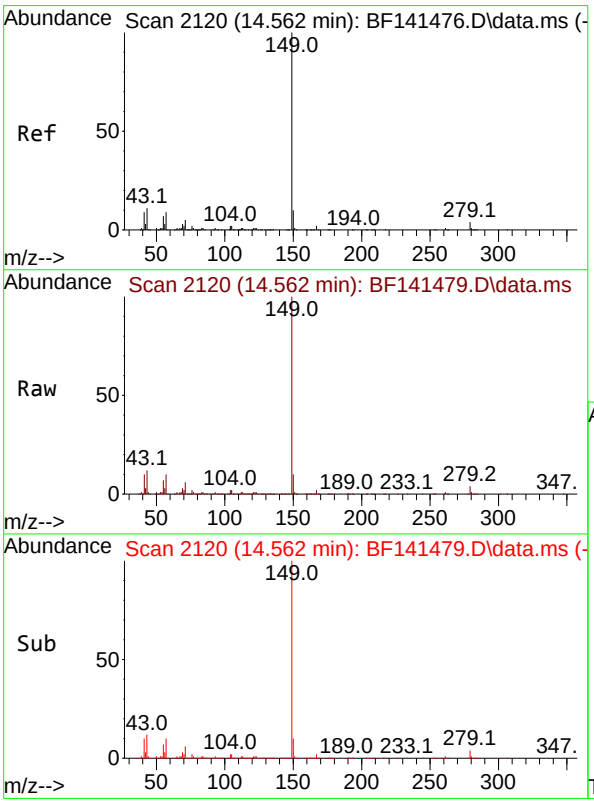
#84
Bis(2-ethylhexyl)phthalate
Concen: 84.477 ng
RT: 13.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 517884

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.4	32.0
279	3.9	3.1	4.7

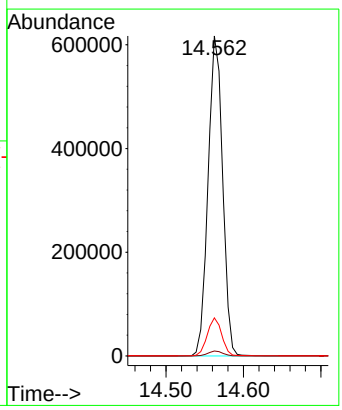


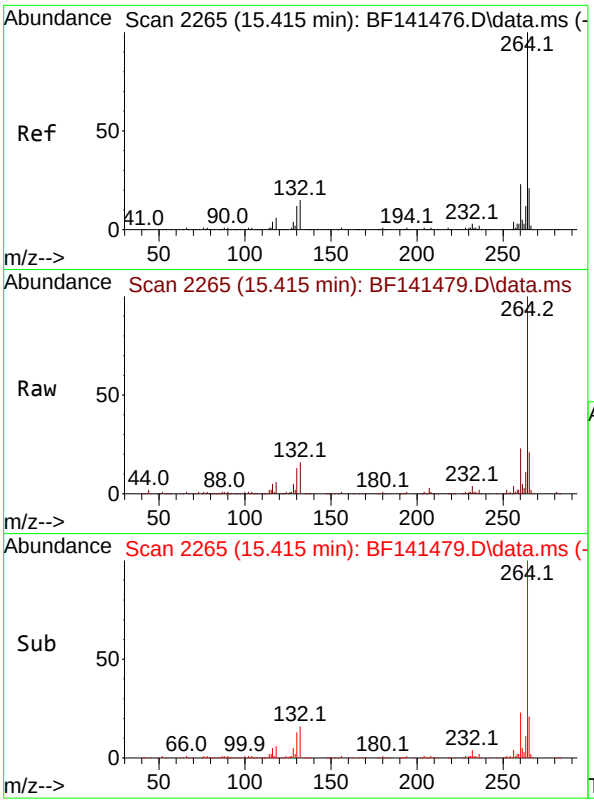


#85
Di-n-octyl phthalate
Concen: 91.886 ng
RT: 14.562 min Scan# 2120
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:149 Resp: 803601

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.8	9.5	14.3



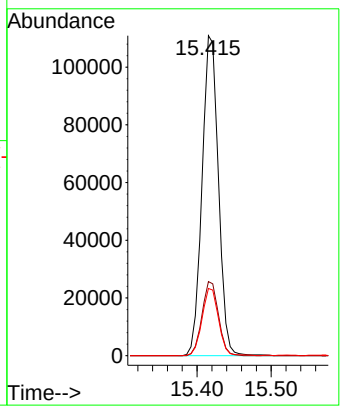


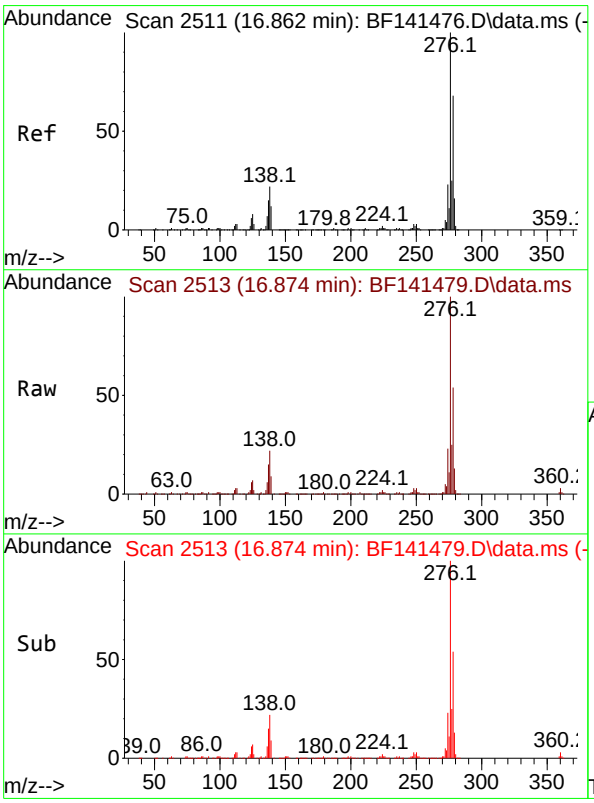
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:264 Resp: 170605

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.0	17.0	25.4

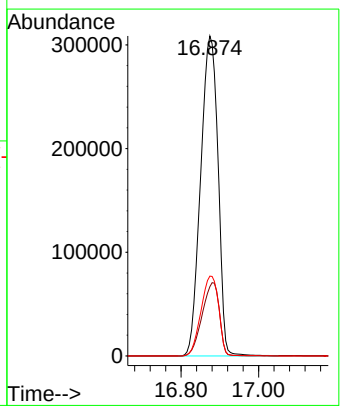


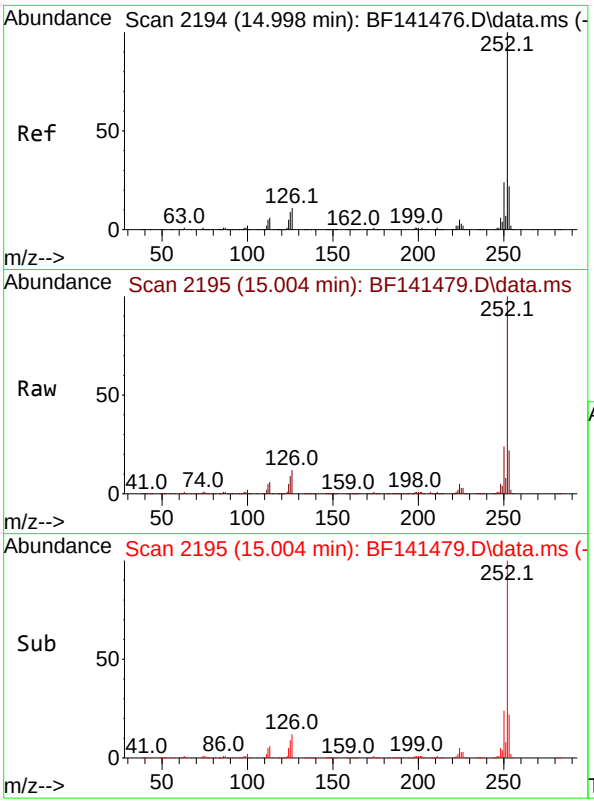


#87
Indeno(1,2,3-cd)pyrene
Concen: 91.166 ng
RT: 16.874 min Scan# 2513
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:276 Resp: 961023

Ion	Ratio	Lower	Upper
276	100		
138	22.7	18.0	27.0
277	25.4	20.4	30.6



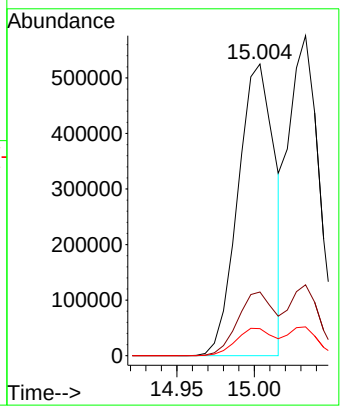


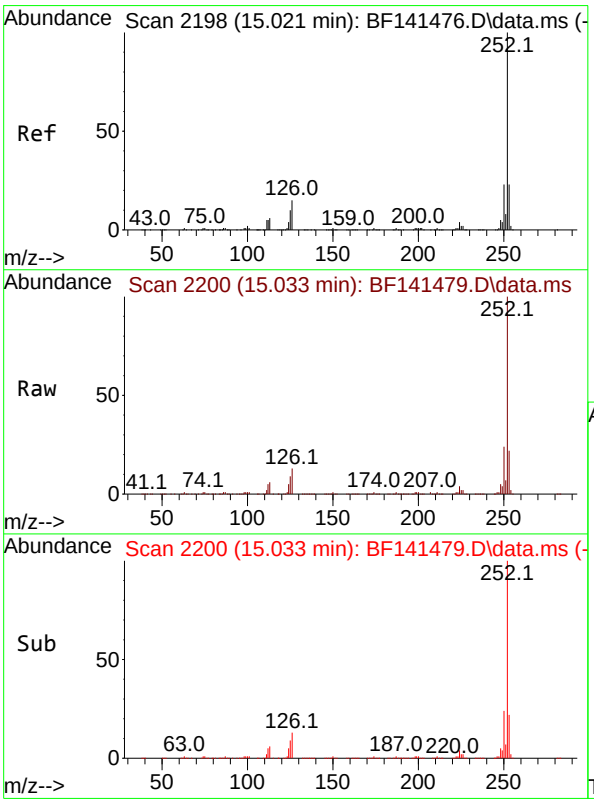
#88
Benzo(b)fluoranthene
Concen: 75.529 ng
RT: 15.004 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 865205

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	9.3	7.0	10.6

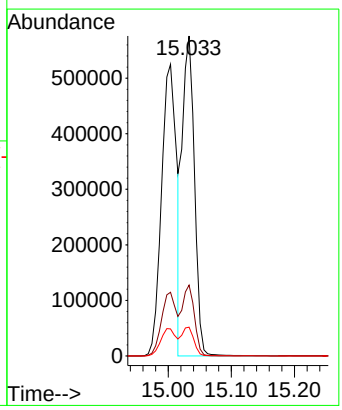


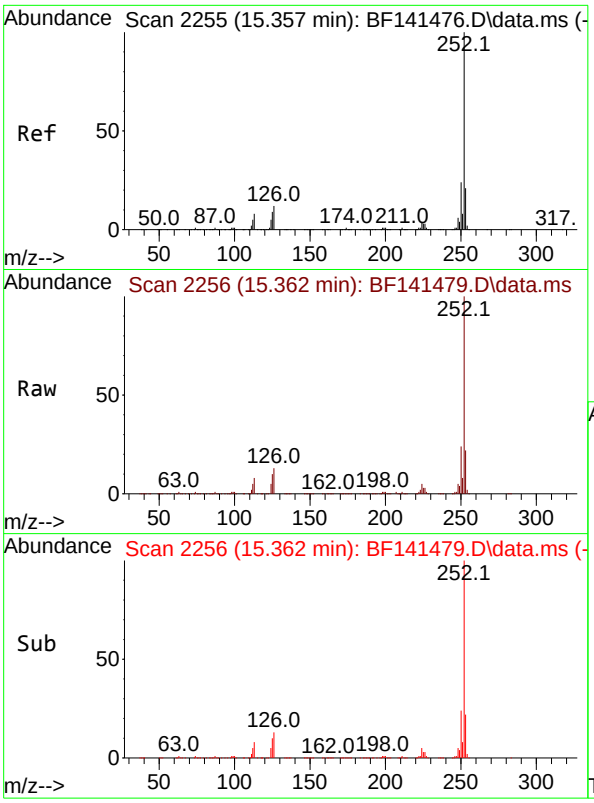


#89
Benzo(k)fluoranthene
Concen: 79.364 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:252 Resp: 776323

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	9.0	7.4	11.0



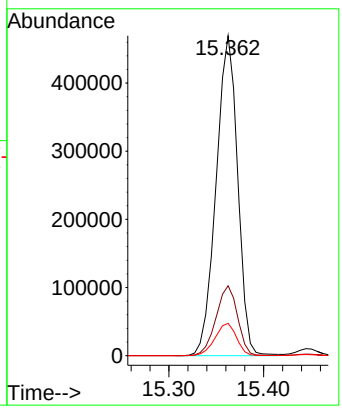


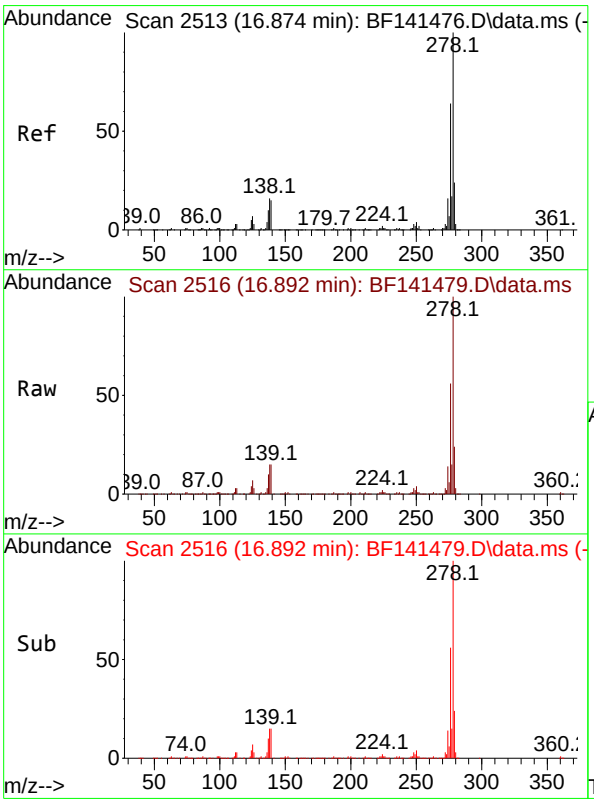
#90
Benzo(a)pyrene
Concen: 80.150 ng
RT: 15.362 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 742932

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.1	7.4	11.2

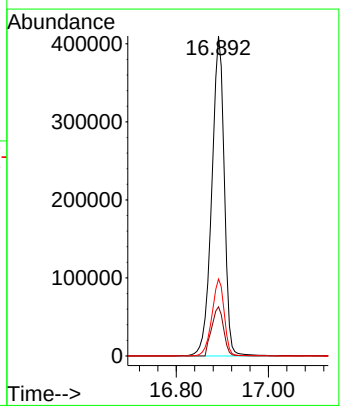


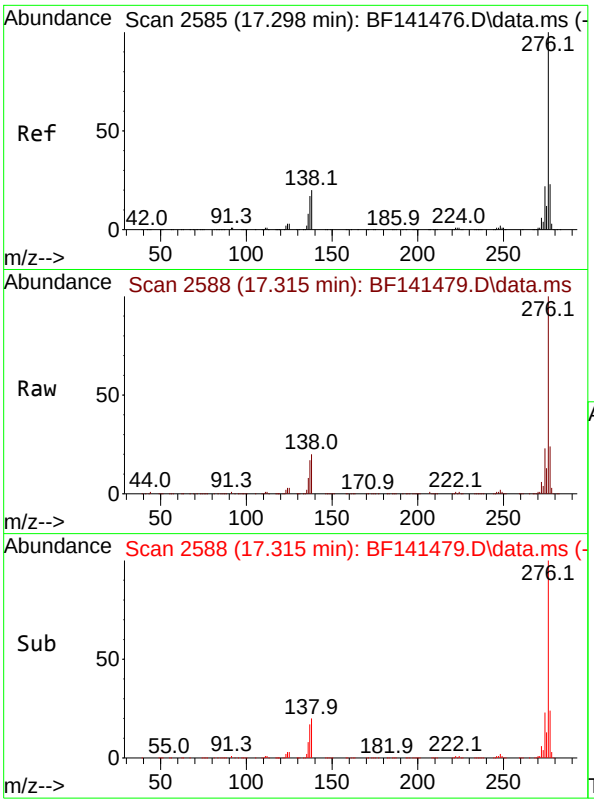


#91
Dibenzo(a,h)anthracene
Concen: 90.578 ng
RT: 16.892 min Scan# 2516
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Tgt Ion:278 Resp: 773684

Ion	Ratio	Lower	Upper
278	100		
139	15.3	11.8	17.6
279	24.1	19.1	28.7



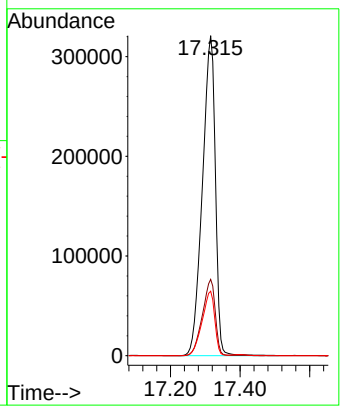


#92
Benzo(g,h,i)perylene
Concen: 93.015 ng
RT: 17.315 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141479.D
Acq: 06 Feb 2025 14:14

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 831418

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	20.2	15.9	23.9



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	90009	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	362467	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	197991	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	337289	20.000	ng	0.00
76) Chrysene-d12	13.963	240	252530	20.000	ng	0.00
86) Perylene-d12	15.427	264	199389	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	470176	81.894	ng	0.00
7) Phenol-d6	6.428	99	586892	80.878	ng	-0.01
23) Nitrobenzene-d5	7.357	82	544613	78.369	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	158098	79.490	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1012492	78.786	ng	0.00
79) Terphenyl-d14	12.904	244	1133126	75.750	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.475	88	93282	40.369	ng	99
3) Pyridine	3.205	79	230604	41.938	ng	99
4) n-Nitrosodimethylamine	3.158	42	151656	41.653	ng	97
6) Aniline	6.451	93	284762	41.834	ng	92
8) 2-Chlorophenol	6.575	128	251415	40.527	ng	96
9) Benzaldehyde	6.340	77	154649	40.105	ng	99
10) Phenol	6.446	94	306753	40.615	ng	97
11) bis(2-Chloroethyl)ether	6.528	93	226152	39.866	ng	100
12) 1,3-Dichlorobenzene	6.728	146	264052	40.317	ng	98
13) 1,4-Dichlorobenzene	6.804	146	267068	39.911	ng	99
14) 1,2-Dichlorobenzene	6.957	146	250623	40.354	ng	99
15) Benzyl Alcohol	6.934	79	228379	41.041	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.069	45	393626	40.535	ng	98
17) 2-Methylphenol	7.051	107	197905	40.768	ng	99
18) Hexachloroethane	7.298	117	101687	41.061	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	173832	40.048	ng	100
20) 3+4-Methylphenols	7.204	107	247254	40.073	ng	98
22) Acetophenone	7.198	105	353867	39.246	ng	100
24) Nitrobenzene	7.375	77	267193	39.429	ng	100
25) Isophorone	7.610	82	440640	39.767	ng	100
26) 2-Nitrophenol	7.687	139	136248	40.413	ng	98
27) 2,4-Dimethylphenol	7.728	122	157242	39.924	ng	99
28) bis(2-Chloroethoxy)met...	7.822	93	282744	39.822	ng	100
29) 2,4-Dichlorophenol	7.934	162	211891	39.818	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	227379	39.237	ng	100
31) Naphthalene	8.093	128	741255	39.287	ng	100
32) Benzoic acid	7.857	122	164966	40.324	ng	98
33) 4-Chloroaniline	8.145	127	267977	40.680	ng	99
34) Hexachlorobutadiene	8.210	225	139658	40.144	ng	99
35) Caprolactam	8.516	113	66599	41.104	ng	99
36) 4-Chloro-3-methylphenol	8.634	107	235824	40.006	ng	100
37) 2-Methylnaphthalene	8.787	142	475273	38.710	ng	100
38) 1-Methylnaphthalene	8.881	142	464346	39.049	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	230166	40.182	ng	99
41) Hexachlorocyclopentadiene	8.934	237	73834	38.754	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	147770	39.914	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

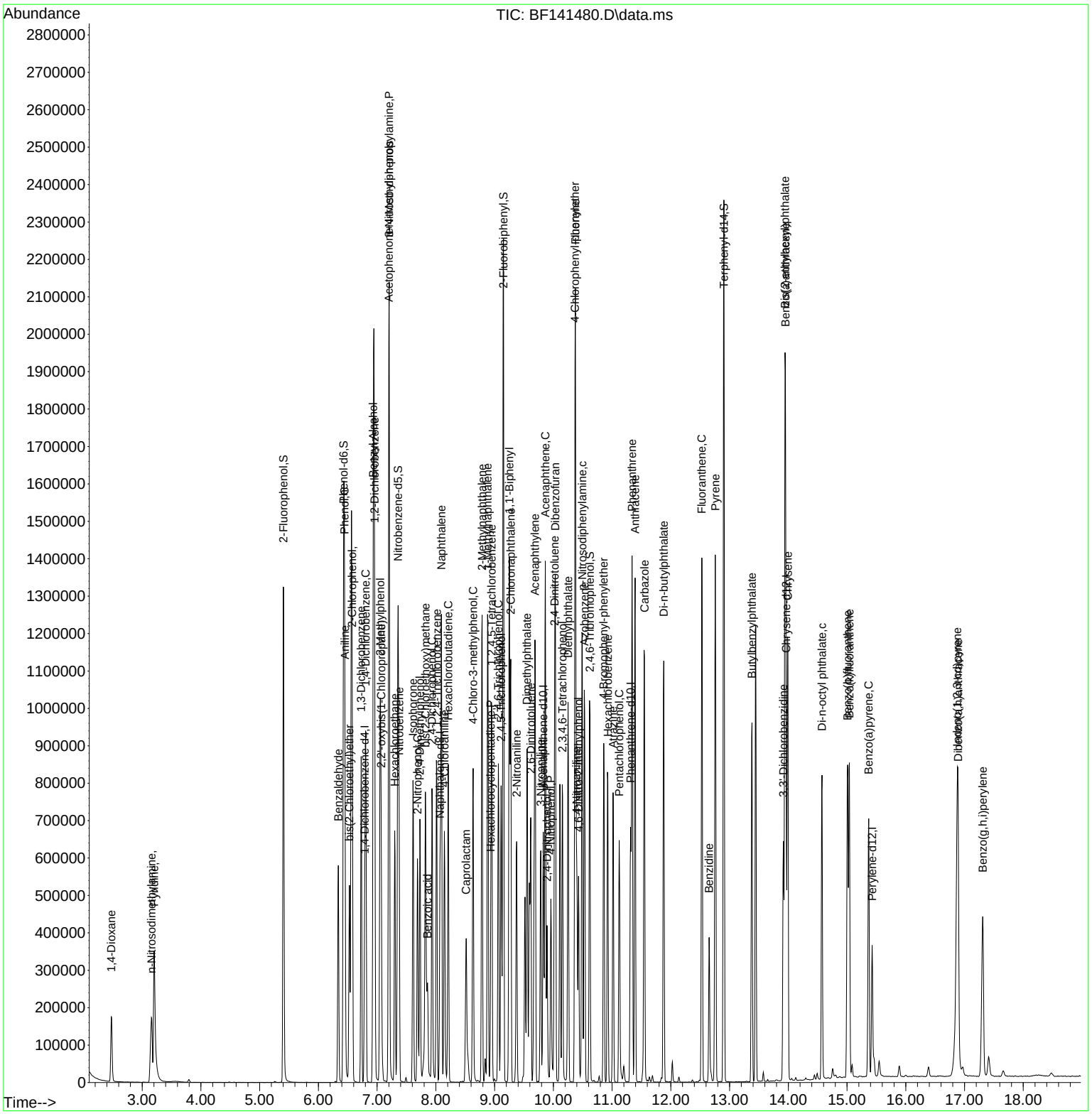
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	160926	40.108	ng	99
46) 1,1'-Biphenyl	9.251	154	606611	39.519	ng	100
47) 2-Chloronaphthalene	9.275	162	447817	39.453	ng	100
48) 2-Nitroaniline	9.375	65	154092	40.451	ng	98
49) Acenaphthylene	9.687	152	670833	39.734	ng	99
50) Dimethylphthalate	9.551	163	530769	39.488	ng	99
51) 2,6-Dinitrotoluene	9.616	165	117431	39.965	ng	99
52) Acenaphthene	9.863	154	452794	39.893	ng	100
53) 3-Nitroaniline	9.787	138	127965	40.463	ng	99
54) 2,4-Dinitrophenol	9.892	184	74461	42.639	ng	97
55) Dibenzofuran	10.034	168	664069	39.860	ng	99
56) 4-Nitrophenol	9.957	139	98990	42.166	ng	99
57) 2,4-Dinitrotoluene	10.022	165	158941	40.633	ng	100
58) Fluorene	10.375	166	508833	39.501	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	139688	40.438	ng	97
60) Diethylphthalate	10.251	149	521933	39.467	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	243659	39.318	ng	98
62) 4-Nitroaniline	10.398	138	132059	41.124	ng	99
63) Azobenzene	10.528	77	522705	39.759	ng	99
65) 4,6-Dinitro-2-methylph...	10.428	198	98944	42.230	ng	98
66) n-Nitrosodiphenylamine	10.492	169	432307	40.040	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	154044	40.864	ng	95
68) Hexachlorobenzene	10.928	284	156075	40.208	ng	99
69) Atrazine	11.016	200	127486	39.358	ng	100
70) Pentachlorophenol	11.122	266	105427	42.476	ng	99
71) Phenanthrene	11.339	178	744761	40.114	ng	100
72) Anthracene	11.392	178	753295	40.362	ng	100
73) Carbazole	11.551	167	676218	40.267	ng	100
74) Di-n-butylphthalate	11.881	149	794101	40.953	ng	100
75) Fluoranthene	12.528	202	807256	41.011	ng	100
77) Benzidine	12.651	184	211734	38.017	ng	100
78) Pyrene	12.757	202	812250	37.784	ng	100
80) Butylbenzylphthalate	13.380	149	311103	41.781	ng	99
81) Benzo(a)anthracene	13.951	228	638036	38.009	ng	100
82) 3,3'-Dichlorobenzidine	13.916	252	185650	38.608	ng	99
83) Chrysene	13.992	228	610091	39.361	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	371434	44.229	ng	100
85) Di-n-octyl phthalate	14.574	149	534947	44.652	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	474949	38.551	ng	99
88) Benzo(b)fluoranthene	15.010	252	526847	39.352	ng	100
89) Benzo(k)fluoranthene	15.039	252	470794	41.182	ng	98
90) Benzo(a)pyrene	15.369	252	427462	39.459	ng	99
91) Dibenzo(a,h)anthracene	16.892	278	388028	38.870	ng	99
92) Benzo(g,h,i)perylene	17.310	276	402566	38.536	ng	99

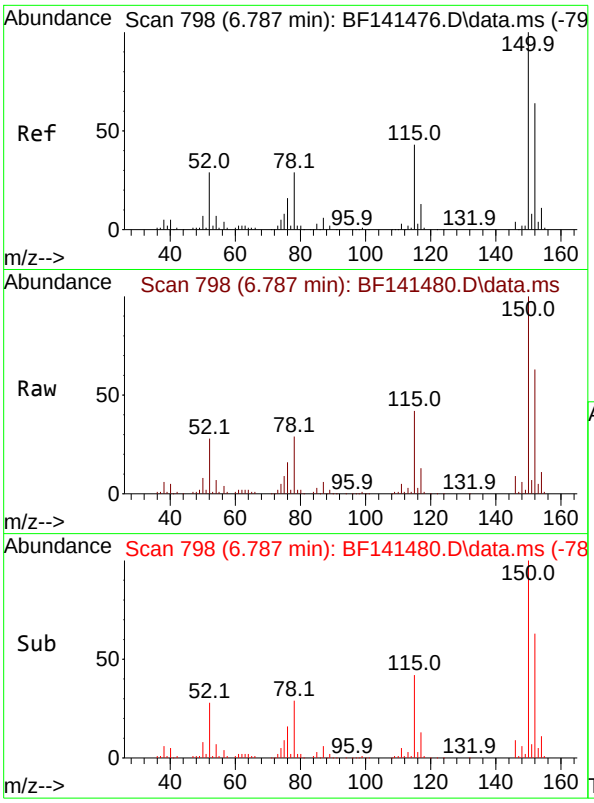
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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



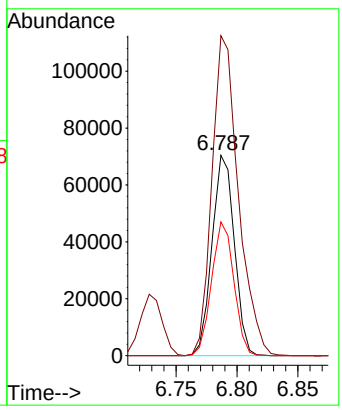


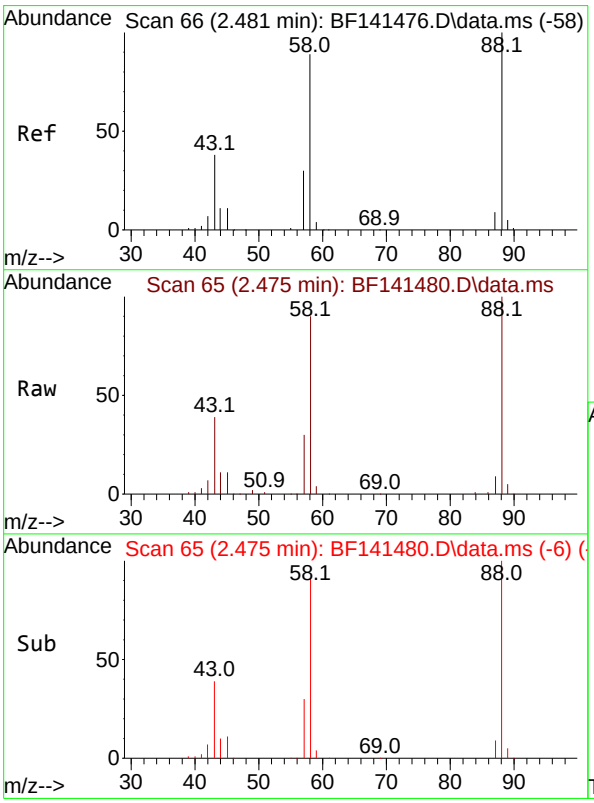
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:152 Resp: 90009

Ion	Ratio	Lower	Upper
152	100		
150	159.7	125.0	187.4
115	66.8	53.6	80.4

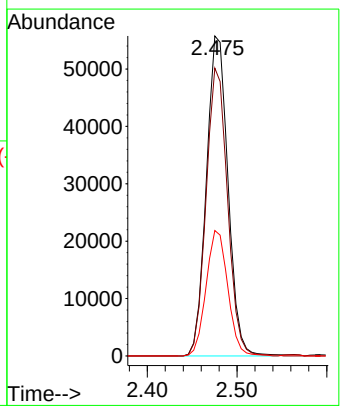


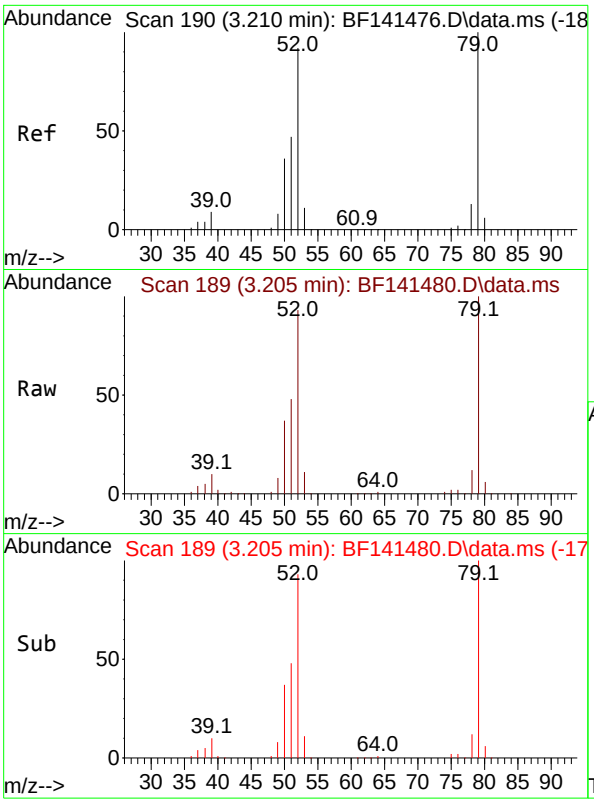


#2
1,4-Dioxane
Concen: 40.369 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 88 Resp: 93282

Ion	Ratio	Lower	Upper
88	100		
58	89.1	71.1	106.7
43	39.4	30.6	46.0



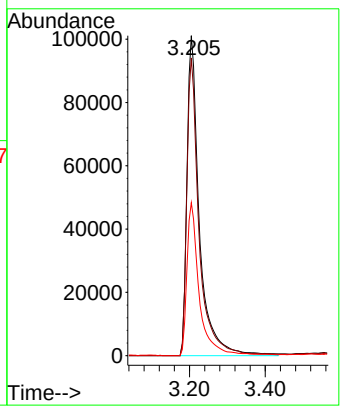


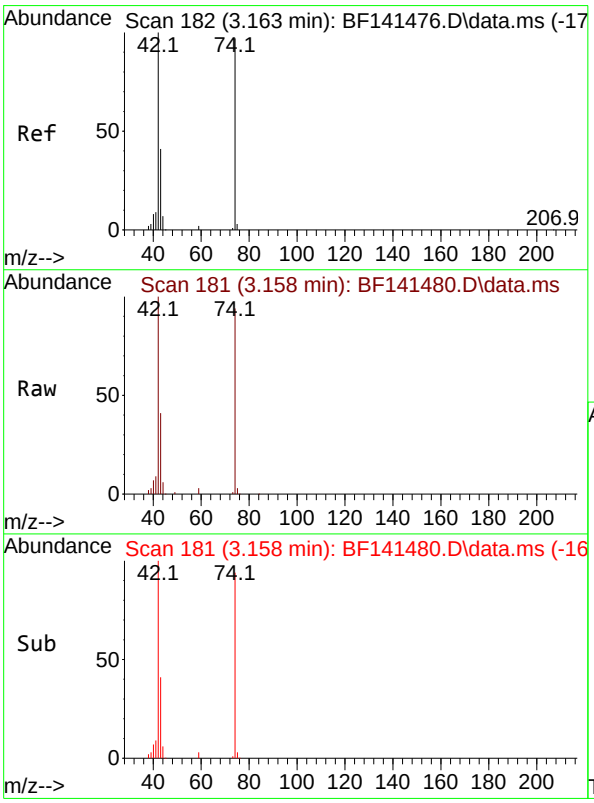
#3
Pyridine
Concen: 41.938 ng
RT: 3.205 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 79 Resp: 230604

Ion	Ratio	Lower	Upper
79	100		
52	93.1	73.7	110.5
51	47.8	37.5	56.3

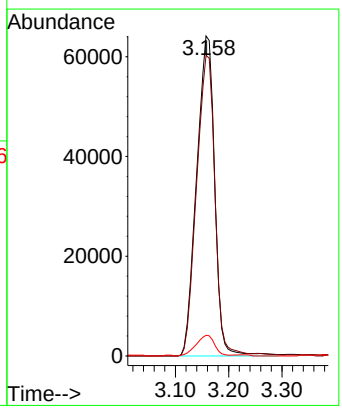


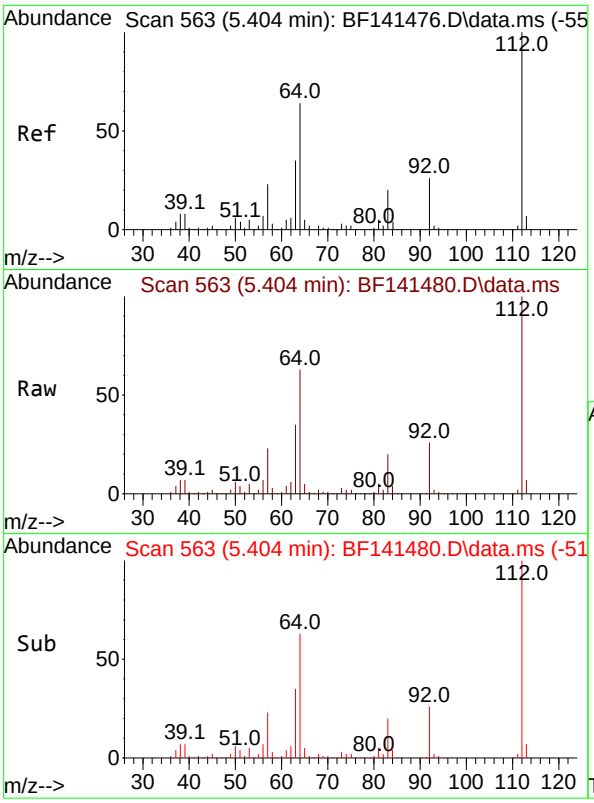


#4
n-Nitrosodimethylamine
Concen: 41.653 ng
RT: 3.158 min Scan# 181
Delta R.T. -0.029 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 42 Resp: 151656

Ion	Ratio	Lower	Upper
42	100		
74	94.0	78.0	117.0
44	6.5	5.4	8.2



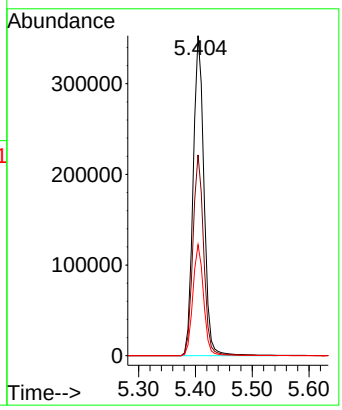


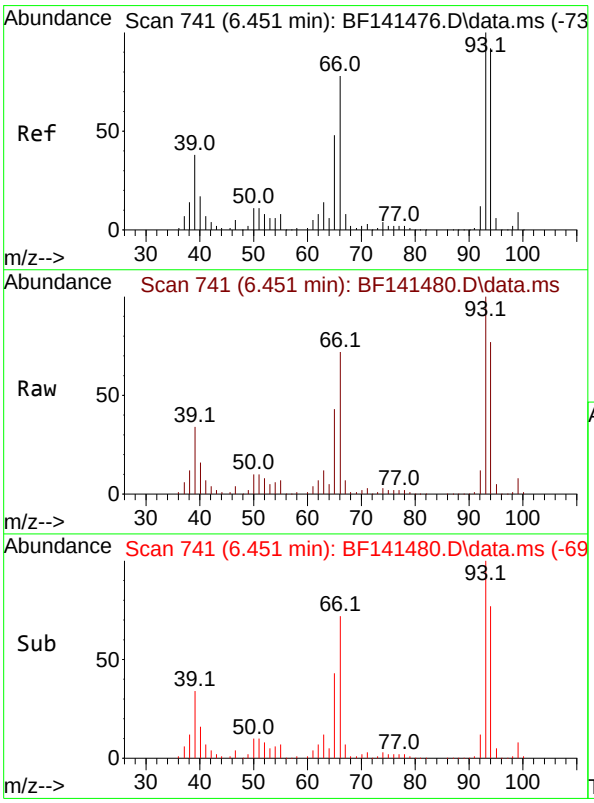
#5
2-Fluorophenol
Concen: 81.894 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:112 Resp: 470176

Ion	Ratio	Lower	Upper
112	100		
64	62.8	51.1	76.7
63	34.7	28.4	42.6

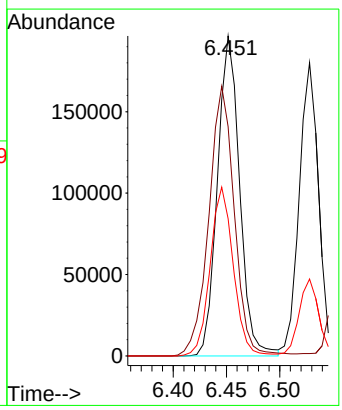


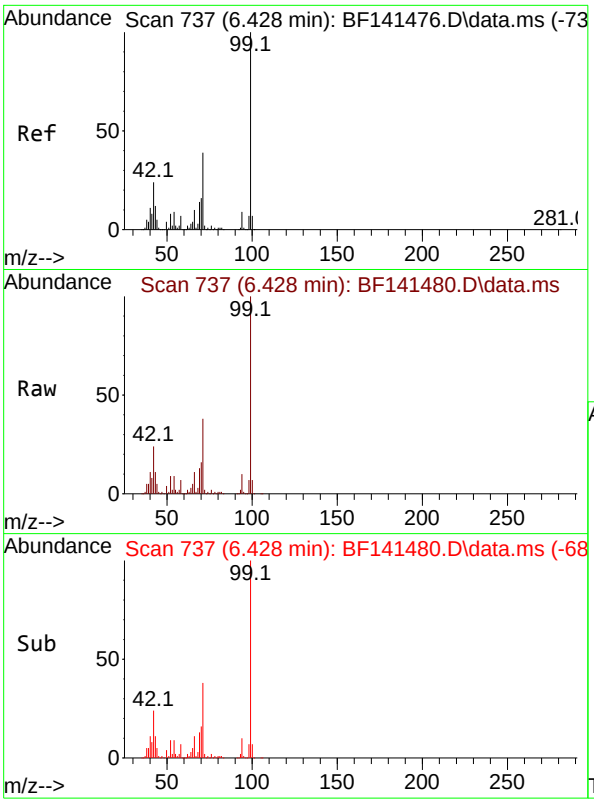


#6
Aniline
Concen: 41.834 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 93 Resp: 284762

Ion	Ratio	Lower	Upper
93	100		
66	71.6	62.6	94.0
65	42.9	38.3	57.5



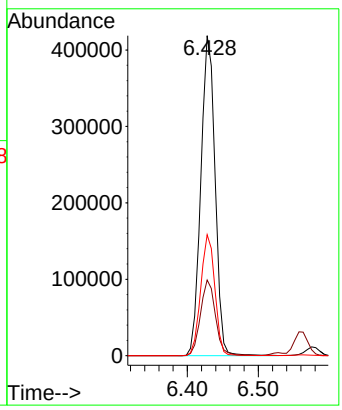


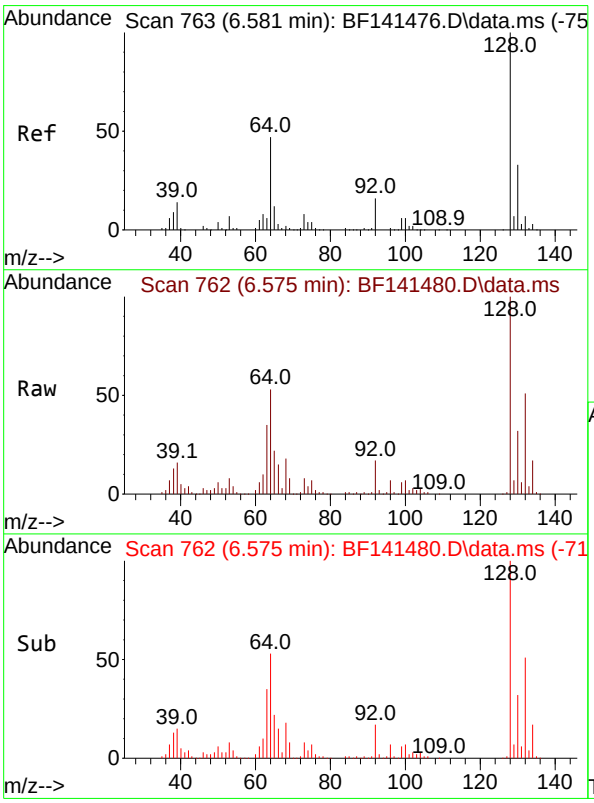
#7
Phenol-d6
Concen: 80.878 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 99 Resp: 586892

Ion	Ratio	Lower	Upper
99	100		
42	23.7	19.1	28.7
71	37.8	31.1	46.7

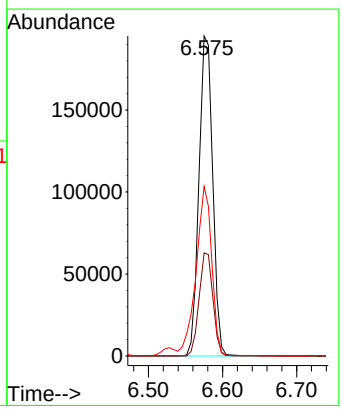


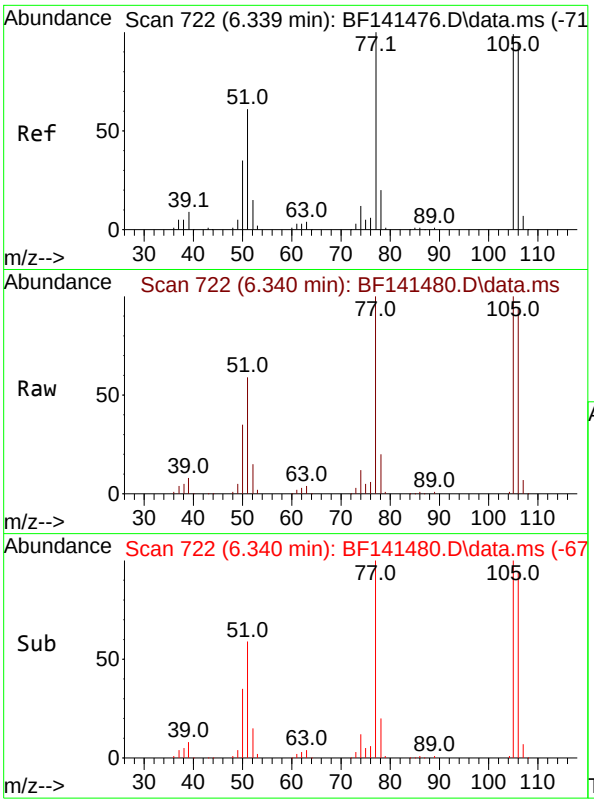


#8
2-Chlorophenol
Concen: 40.527 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:128 Resp: 251415

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.7	52.7
64	52.9	28.3	68.3



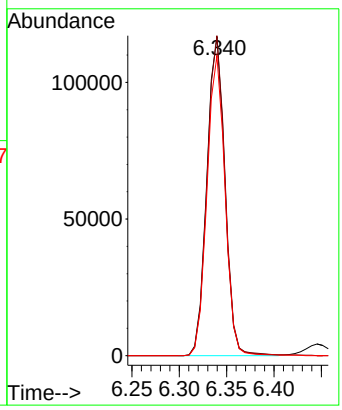


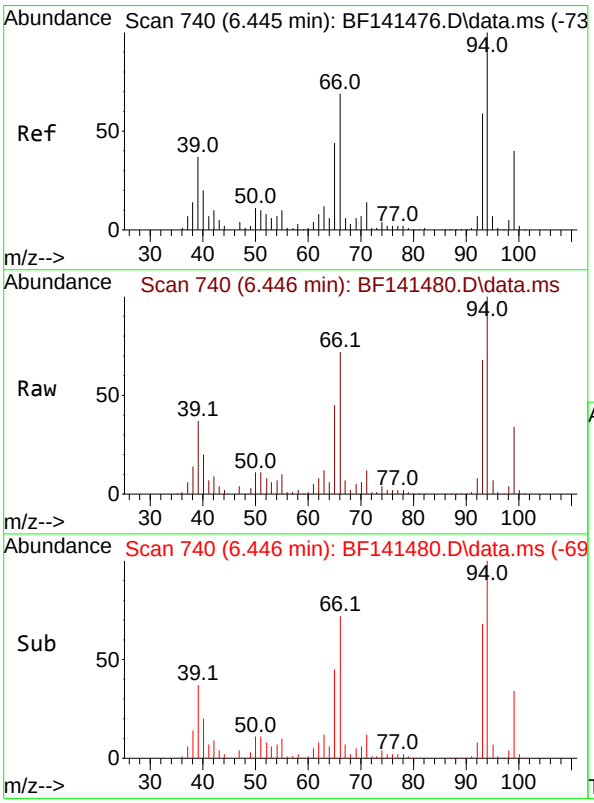
#9
Benzaldehyde
Concen: 40.105 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 77 Resp: 154649

Ion	Ratio	Lower	Upper
77	100		
105	100.4	79.4	119.4
106	94.1	75.1	115.1

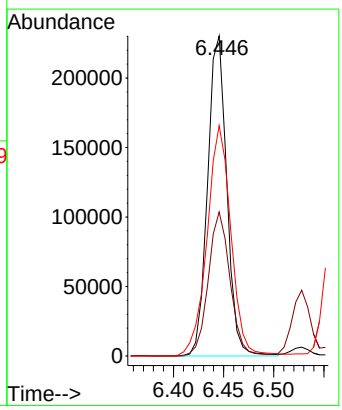


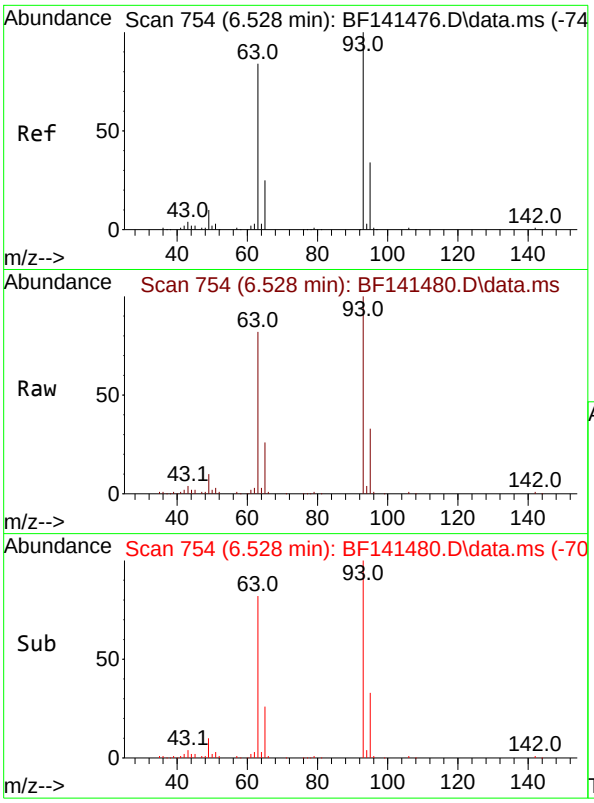


#10
Phenol
Concen: 40.615 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 94 Resp: 306753

Ion	Ratio	Lower	Upper
94	100		
65	45.0	23.7	63.7
66	71.9	49.3	89.3



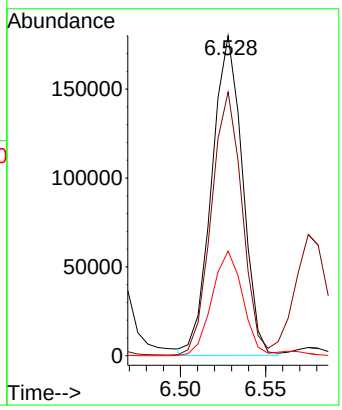


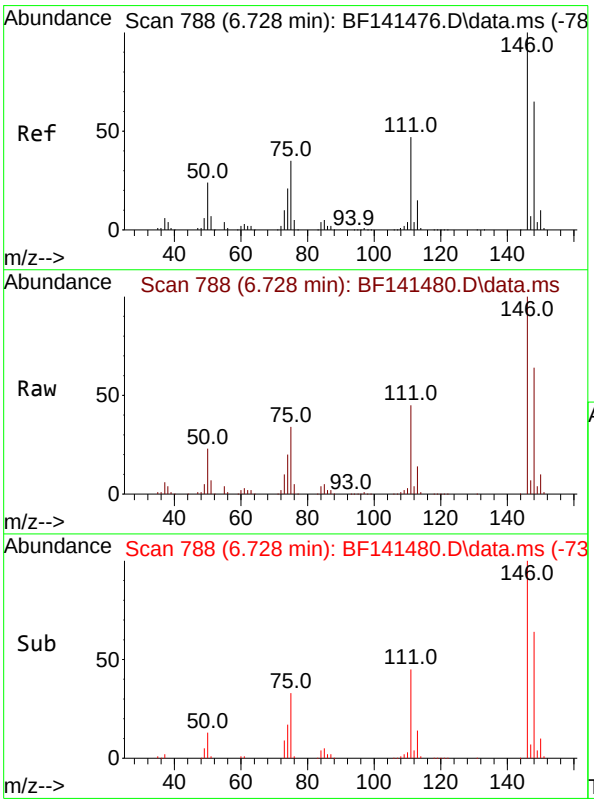
#11
bis(2-Chloroethyl)ether
Concen: 39.866 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 93 Resp: 226152

Ion	Ratio	Lower	Upper
93	100		
63	82.4	62.0	102.0
95	32.7	12.6	52.6

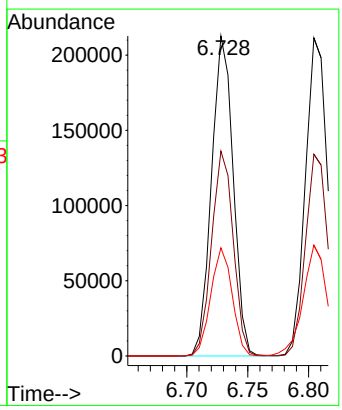


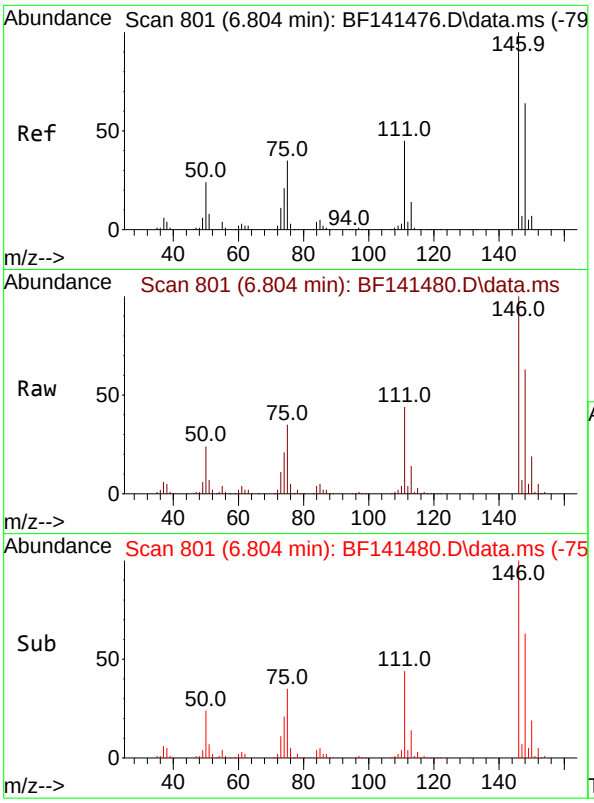


#12
1,3-Dichlorobenzene
Concen: 40.317 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:146 Resp: 264052

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.9	77.9
75	33.8	28.2	42.2



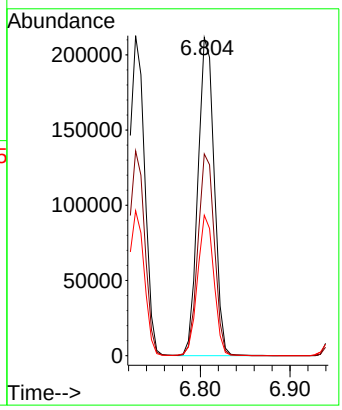


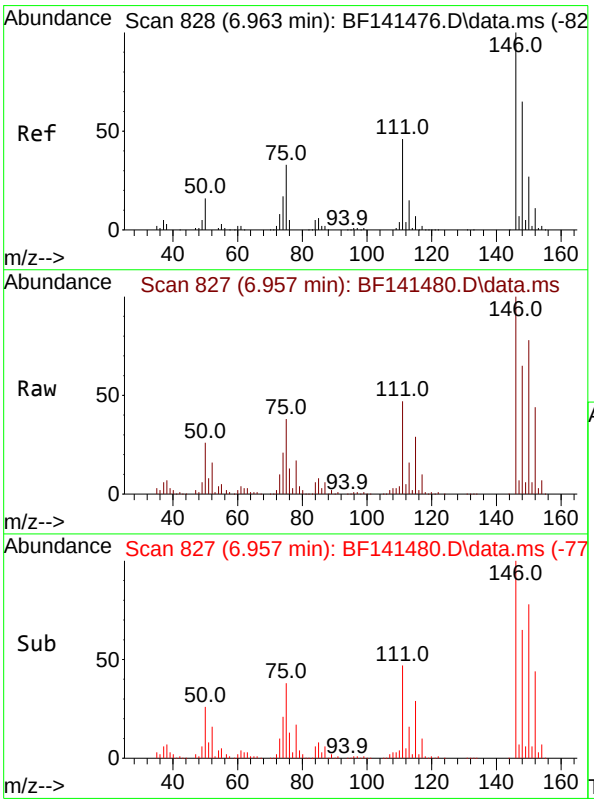
#13
1,4-Dichlorobenzene
Concen: 39.911 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:146 Resp: 267068

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.9	76.3
111	44.2	35.9	53.9

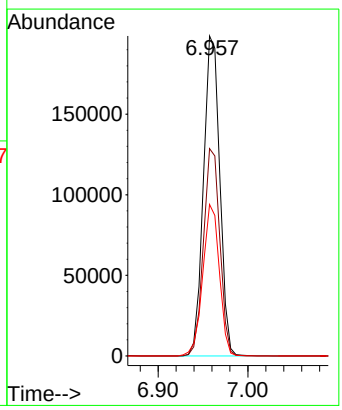


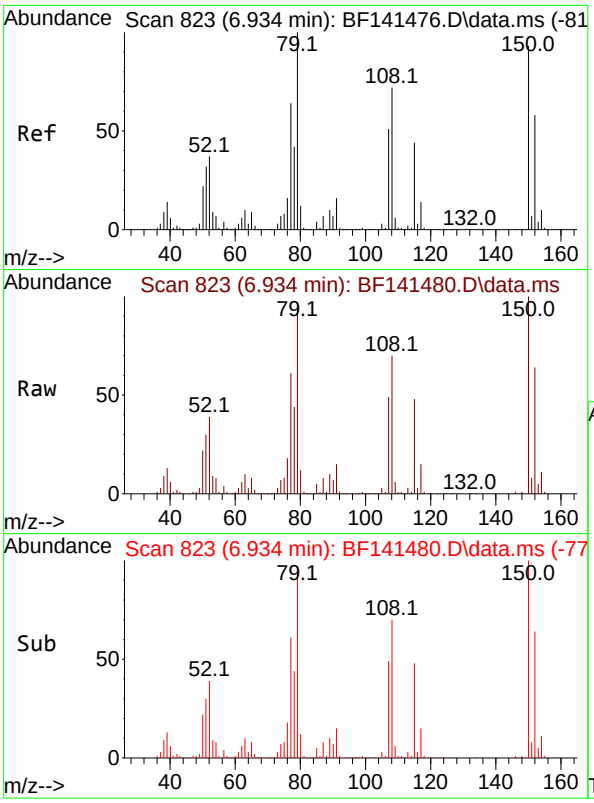


#14
1,2-Dichlorobenzene
Concen: 40.354 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:146 Resp: 250623

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.8	77.6
111	47.4	37.0	55.4



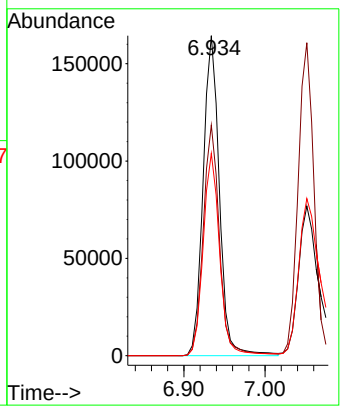


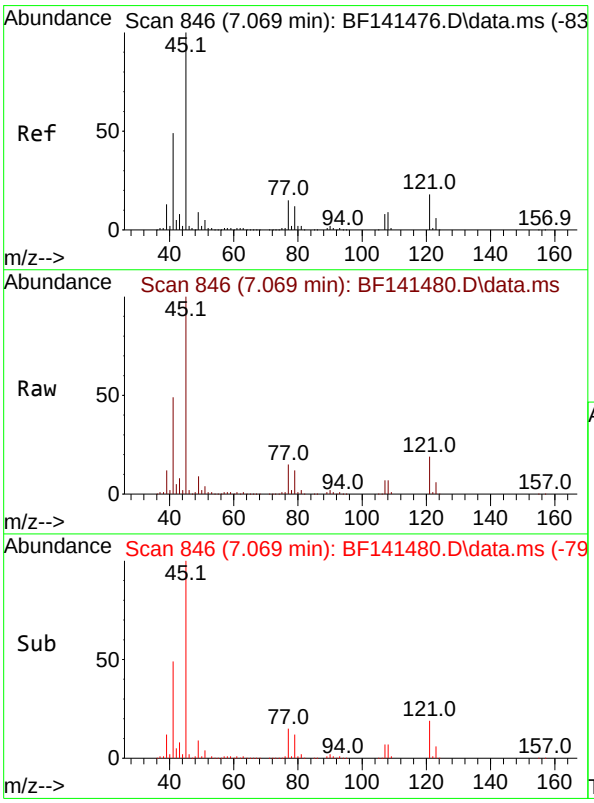
#15
Benzyl Alcohol
Concen: 41.041 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 79 Resp: 228379

Ion	Ratio	Lower	Upper
79	100		
108	72.0	57.4	86.2
77	63.2	50.9	76.3

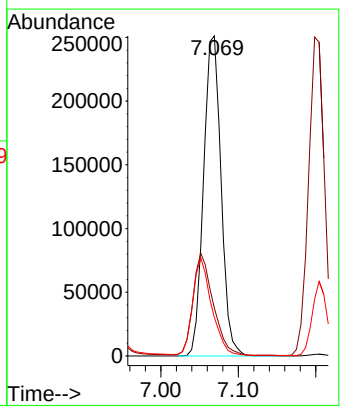


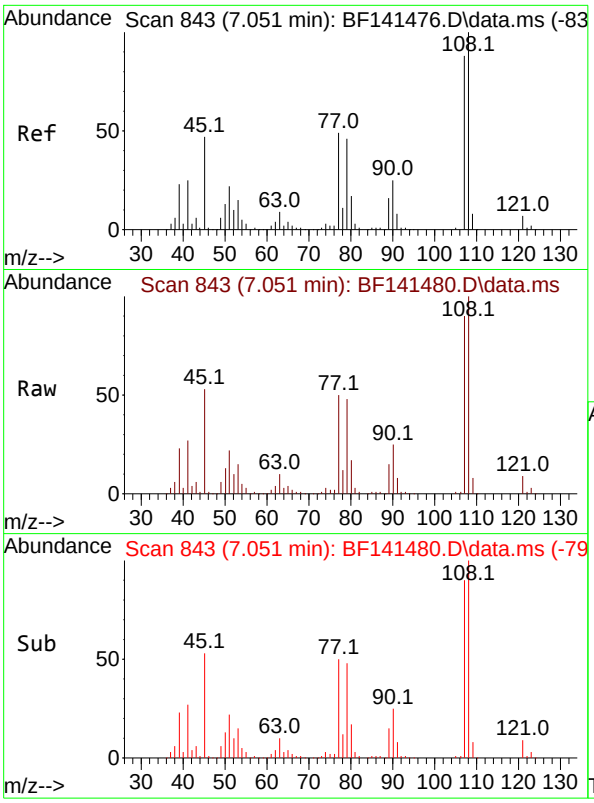


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.535 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 45 Resp: 393626

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	35.8
79	12.0	0.0	32.7



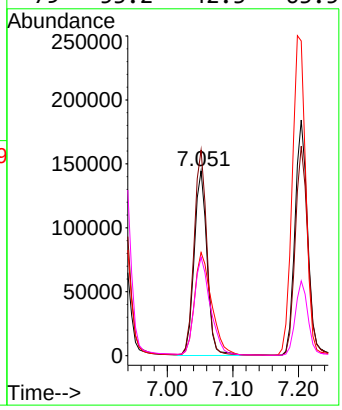


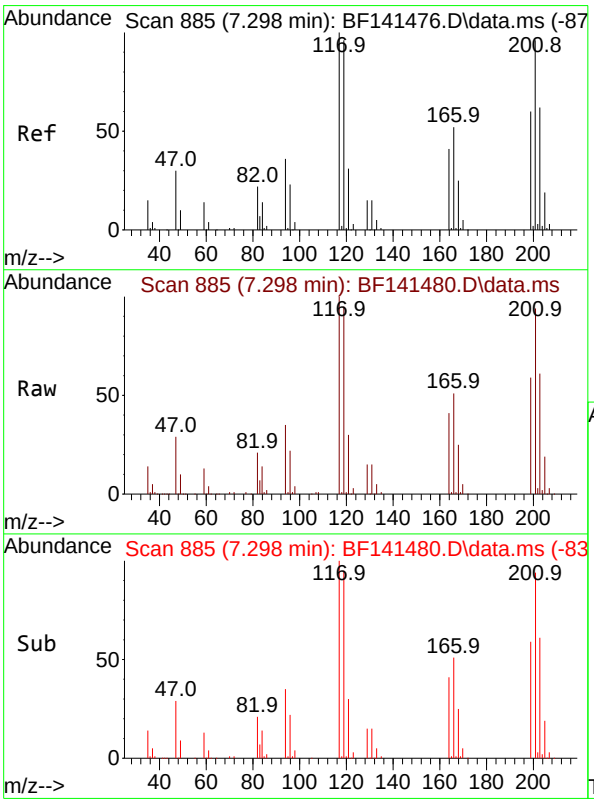
#17
2-Methylphenol
Concen: 40.768 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:107 Resp: 197905

Ion	Ratio	Lower	Upper
107	100		
108	111.3	90.6	136.0
77	55.8	44.4	66.6
79	53.2	42.3	63.5

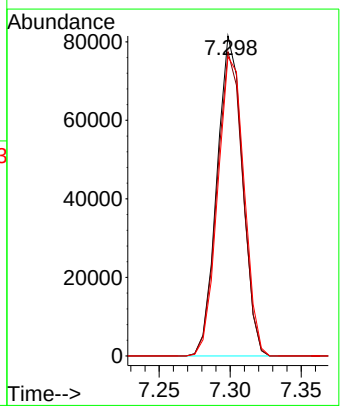


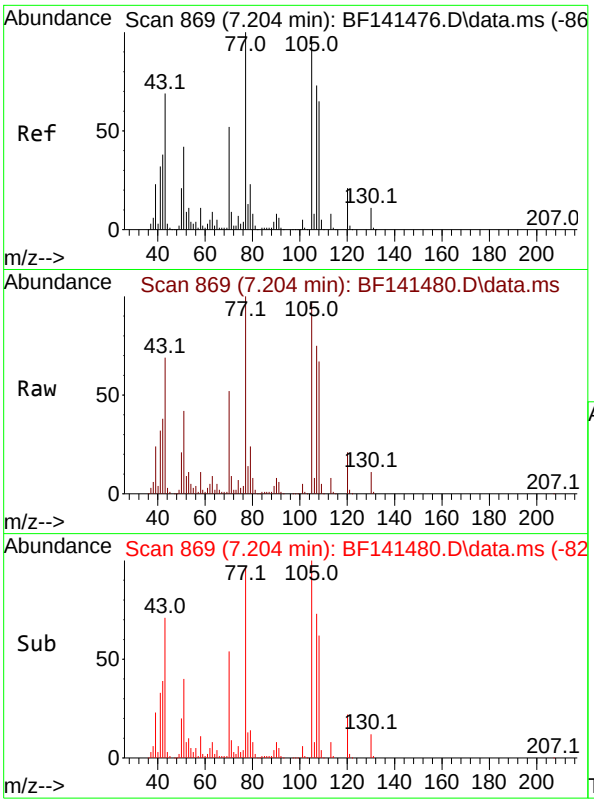


#18
Hexachloroethane
Concen: 41.061 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:117 Resp: 101687

Ion	Ratio	Lower	Upper
117	100		
119	95.0	76.5	114.7
201	93.5	76.7	115.1



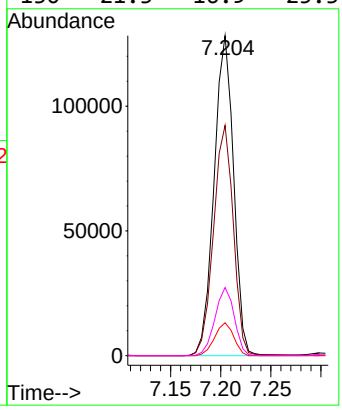


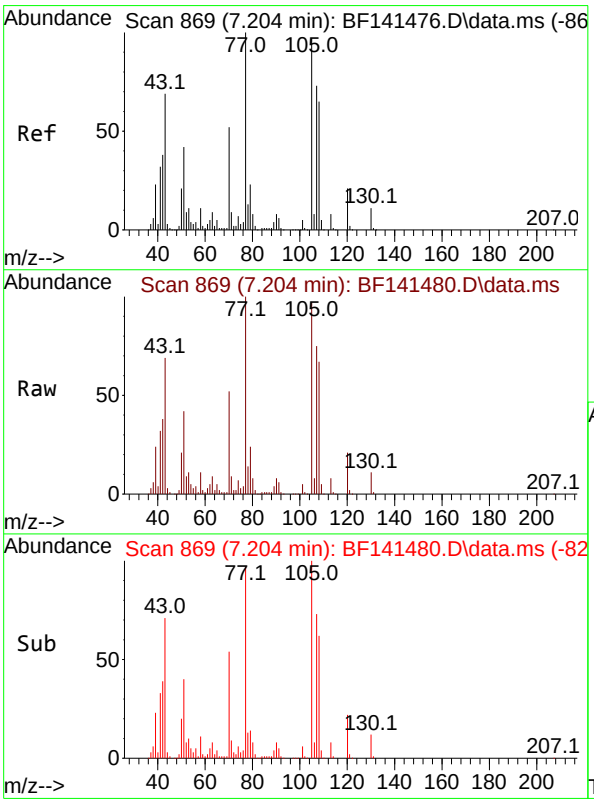
#19
n-Nitroso-di-n-propylamine
Concen: 40.048 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 70 Resp: 173832

Ion	Ratio	Lower	Upper
70	100		
42	72.0	57.4	86.2
101	10.3	8.0	12.0
130	21.3	16.9	25.3

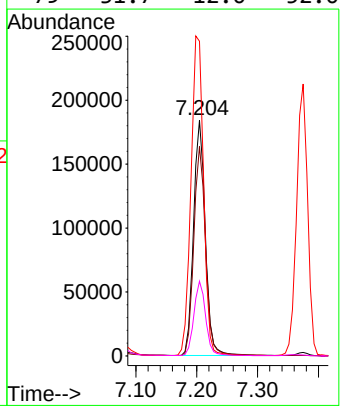


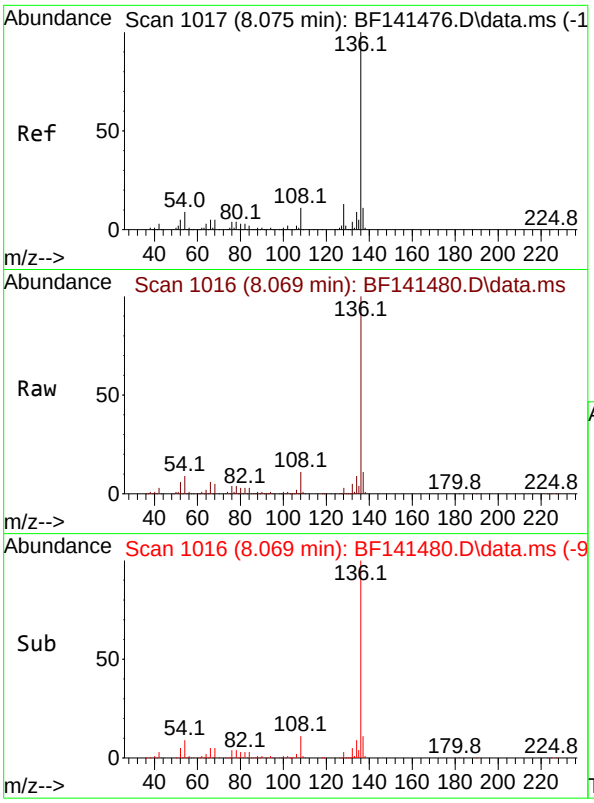


#20
3+4-Methylphenols
Concen: 40.073 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:107 Resp: 247254

Ion	Ratio	Lower	Upper
107	100		
108	88.9	68.5	108.5
77	133.5	116.5	156.5
79	31.7	12.0	52.0



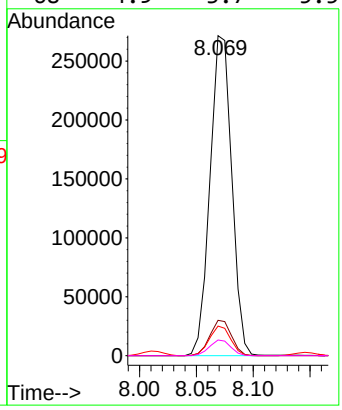


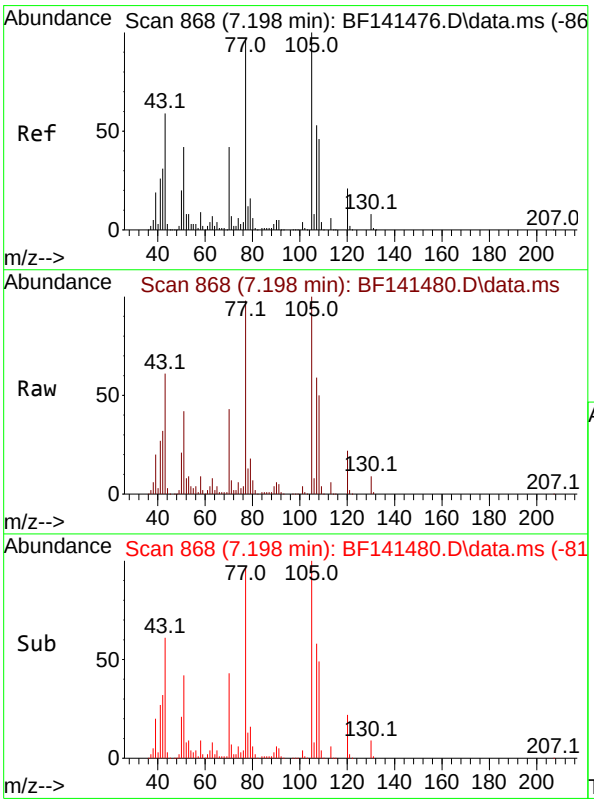
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:136 Resp: 362467

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	9.3	7.2	10.8
68	4.9	3.7	5.5

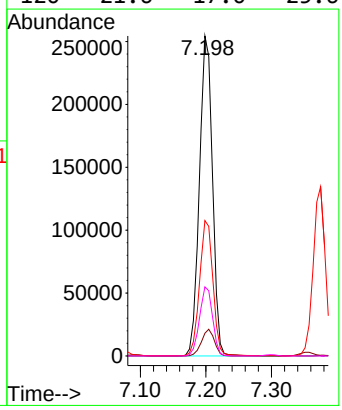


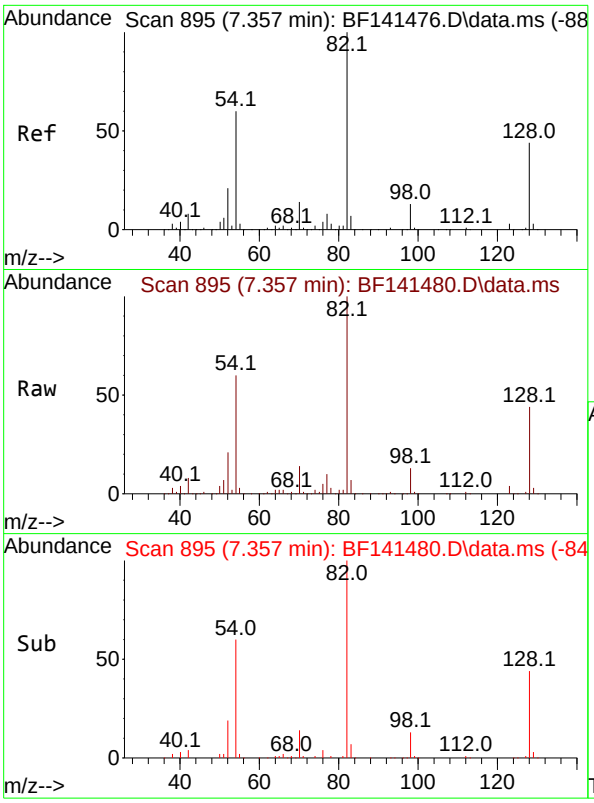


#22
Acetophenone
Concen: 39.246 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:105 Resp: 353867

Ion	Ratio	Lower	Upper
105	100		
71	7.1	5.7	8.5
51	42.3	33.7	50.5
120	21.6	17.0	25.6



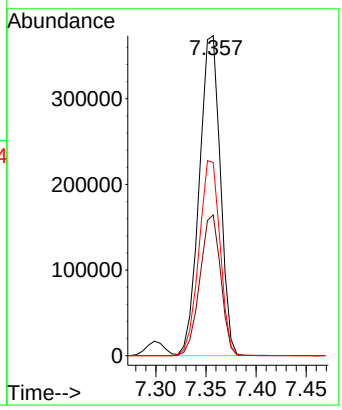


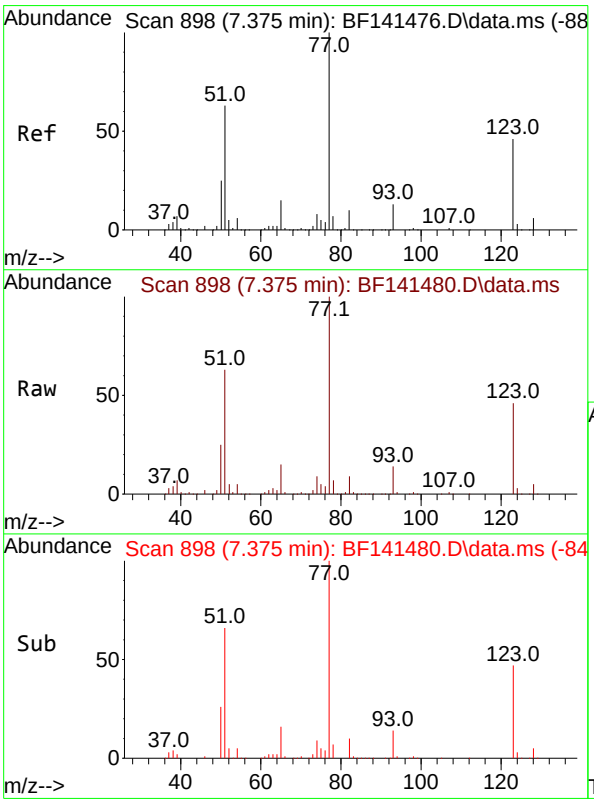
#23
Nitrobenzene-d5
Concen: 78.369 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 82 Resp: 544613

Ion	Ratio	Lower	Upper
82	100		
128	44.0	34.8	52.2
54	60.4	48.2	72.4

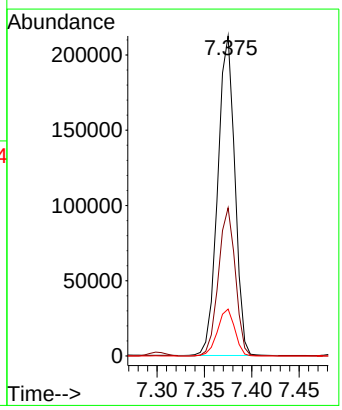


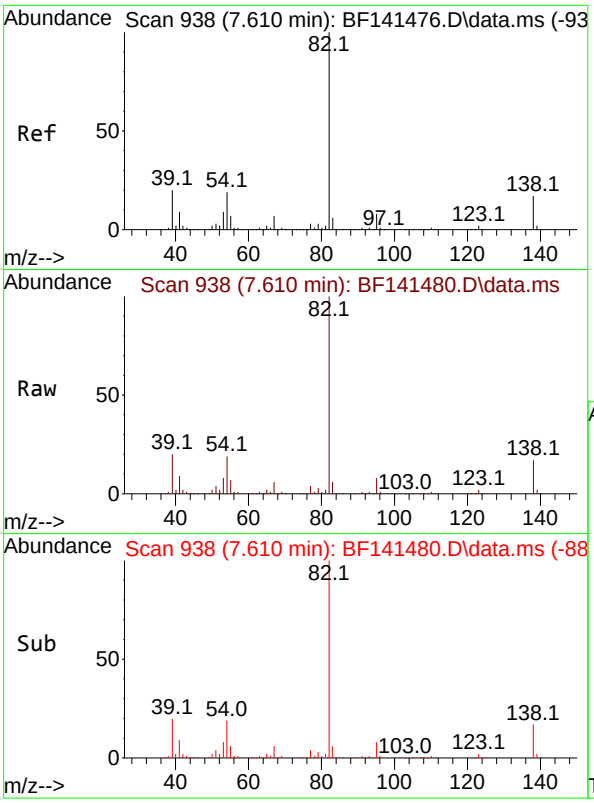


#24
Nitrobenzene
Concen: 39.429 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 77 Resp: 267193

Ion	Ratio	Lower	Upper
77	100		
123	46.3	36.9	55.3
65	14.6	11.9	17.9



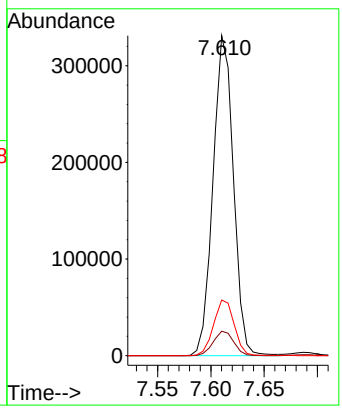


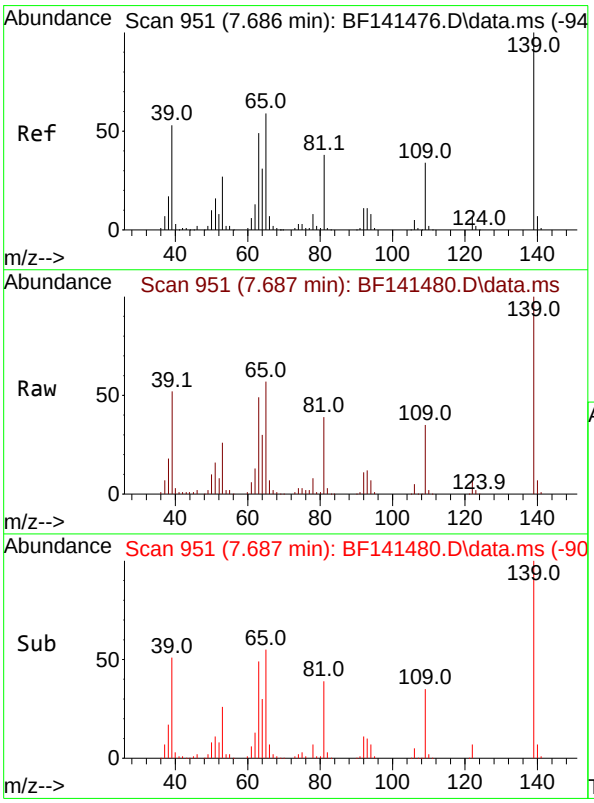
#25
Isophorone
Concen: 39.767 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 82 Resp: 440640

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	17.4	13.9	20.9

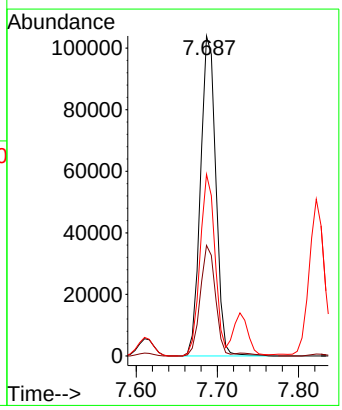


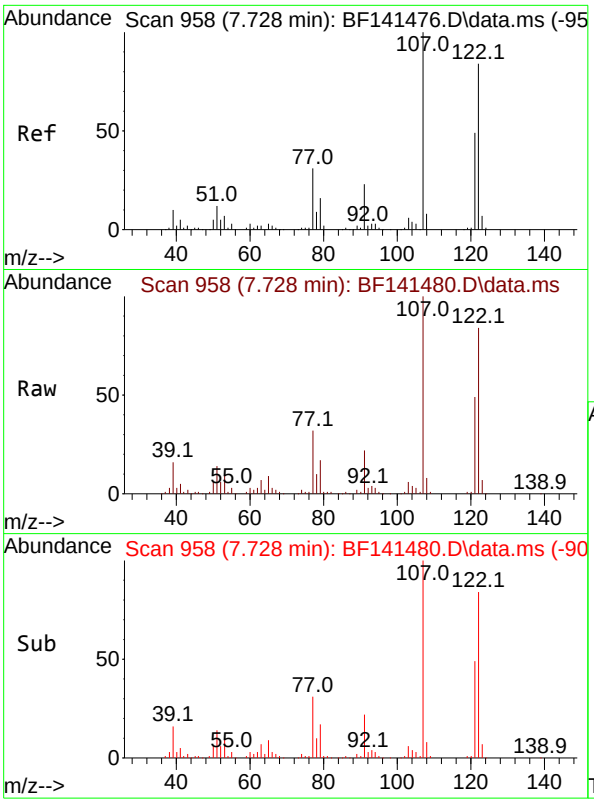


#26
2-Nitrophenol
Concen: 40.413 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:139 Resp: 136248

Ion	Ratio	Lower	Upper
139	100		
109	34.6	27.0	40.6
65	56.7	47.1	70.7



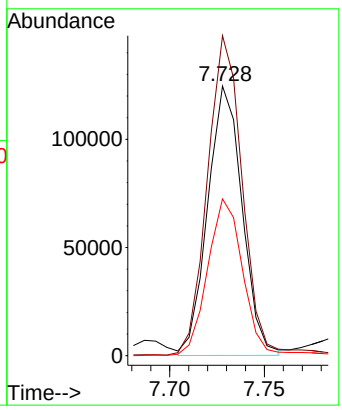


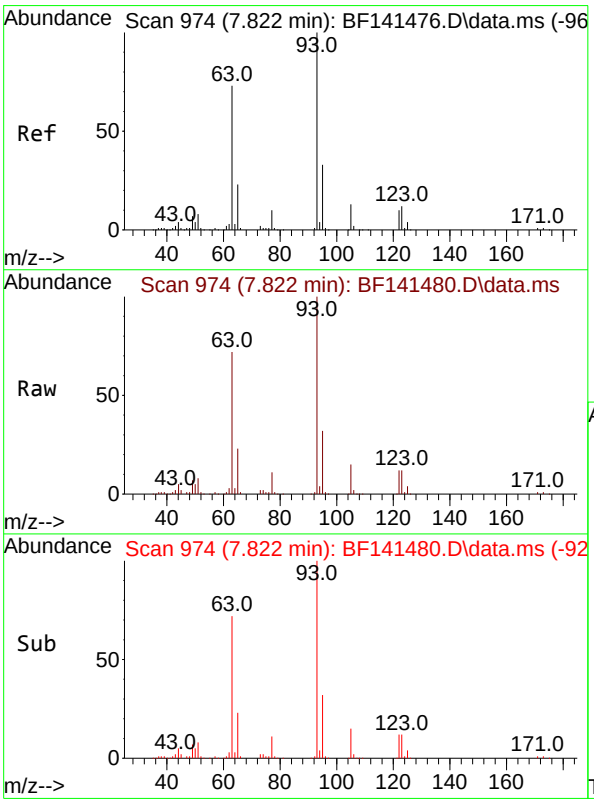
#27
2,4-Dimethylphenol
Concen: 39.924 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:122 Resp: 157242

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	58.2	46.0	69.0

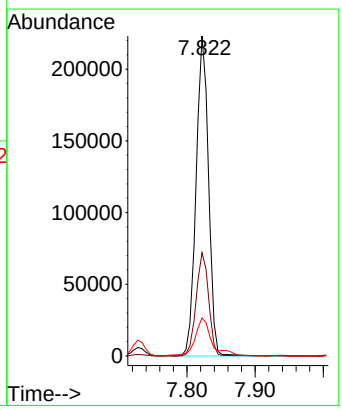


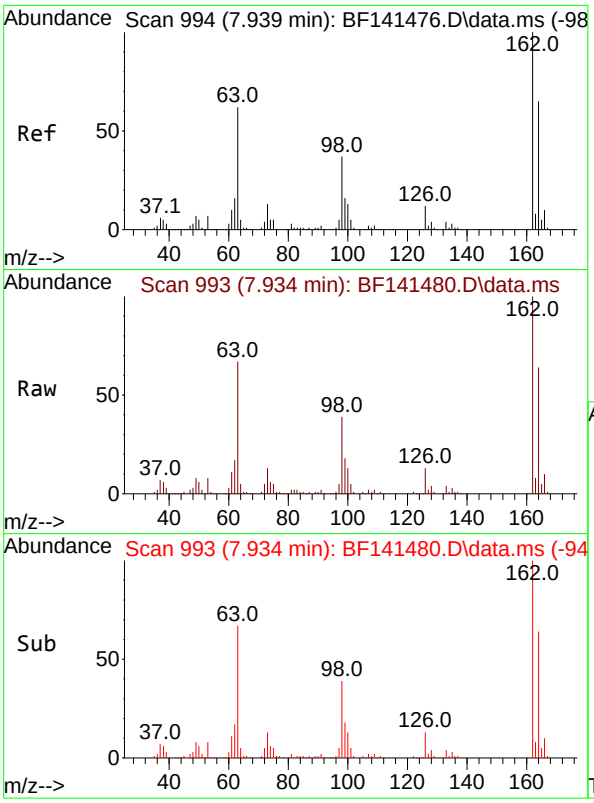


#28
bis(2-Chloroethoxy)methane
Concen: 39.822 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 93 Resp: 282744

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.1	39.1
123	11.9	9.5	14.3



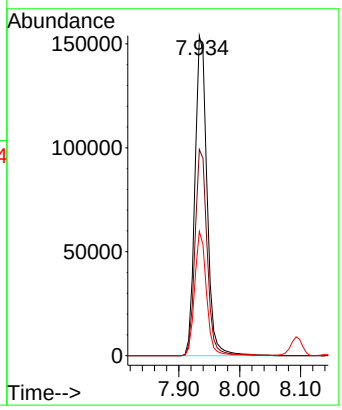


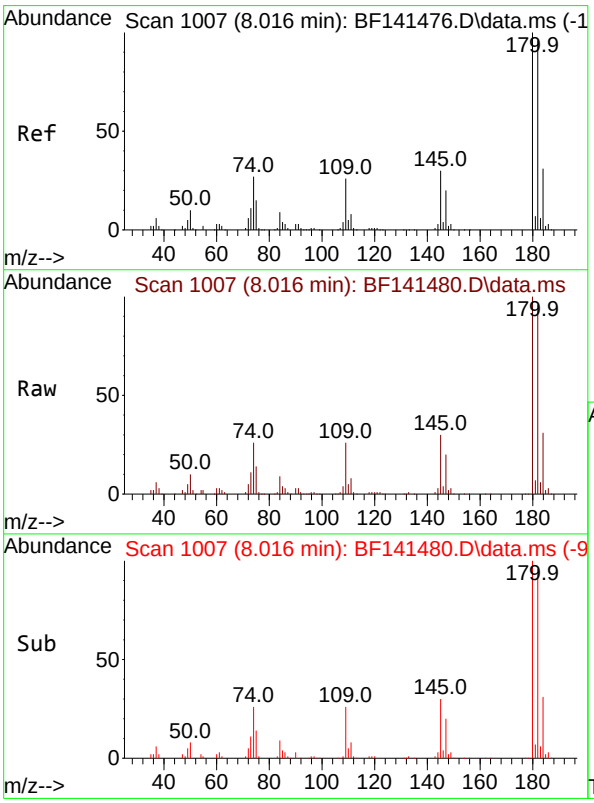
#29
2,4-Dichlorophenol
Concen: 39.818 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:162 Resp: 211891

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.6	84.6
98	38.9	17.2	57.2

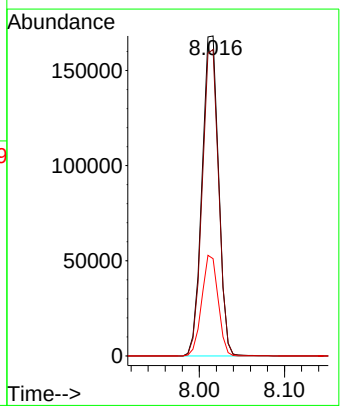


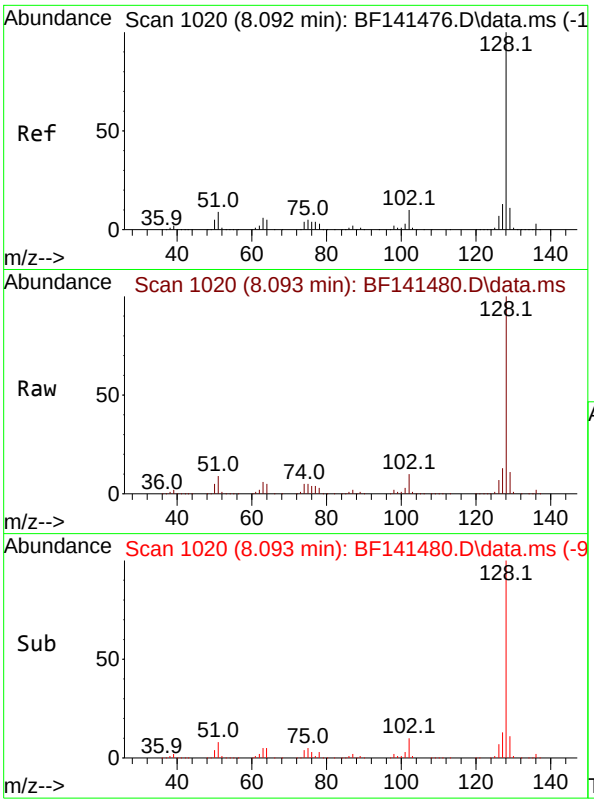


#30
1,2,4-Trichlorobenzene
Concen: 39.237 ng
RT: 8.016 min Scan# 1007
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:180 Resp: 227379

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	30.4	24.2	36.4



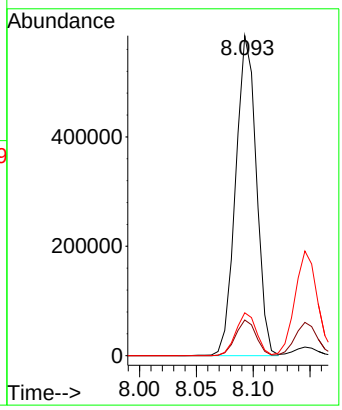


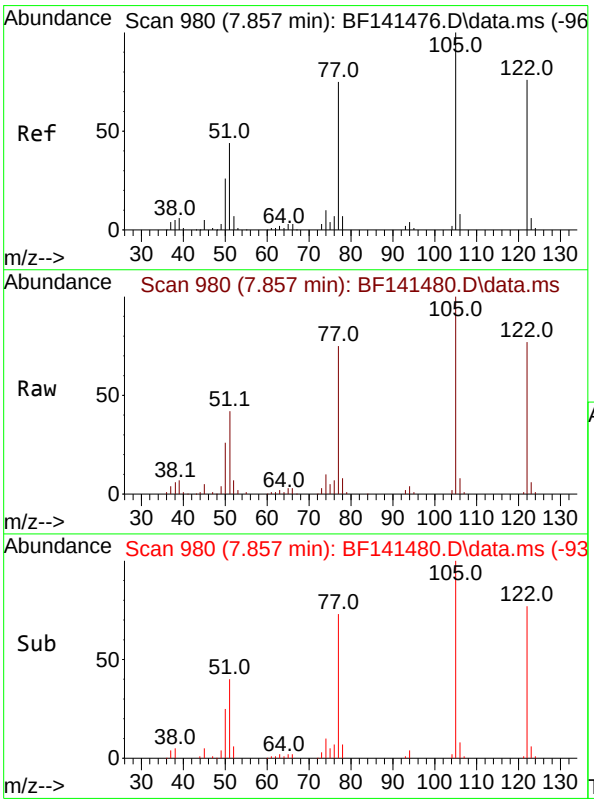
#31
Naphthalene
Concen: 39.287 ng
RT: 8.093 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:128 Resp: 741255

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.7	16.1

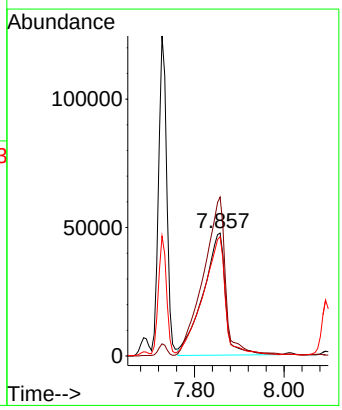


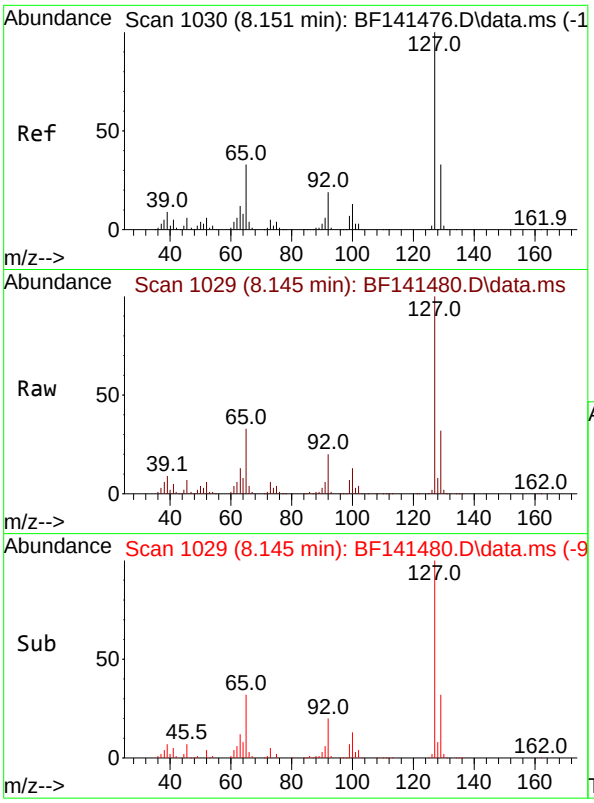


#32
Benzoic acid
Concen: 40.324 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:122 Resp: 164966

Ion	Ratio	Lower	Upper
122	100		
105	129.3	106.5	146.5
77	97.2	76.3	116.3



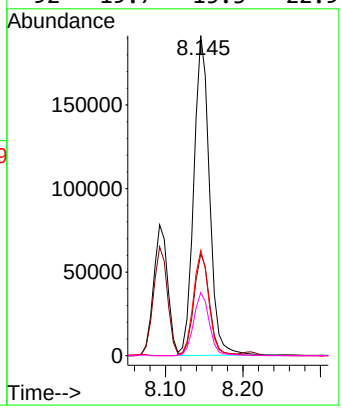


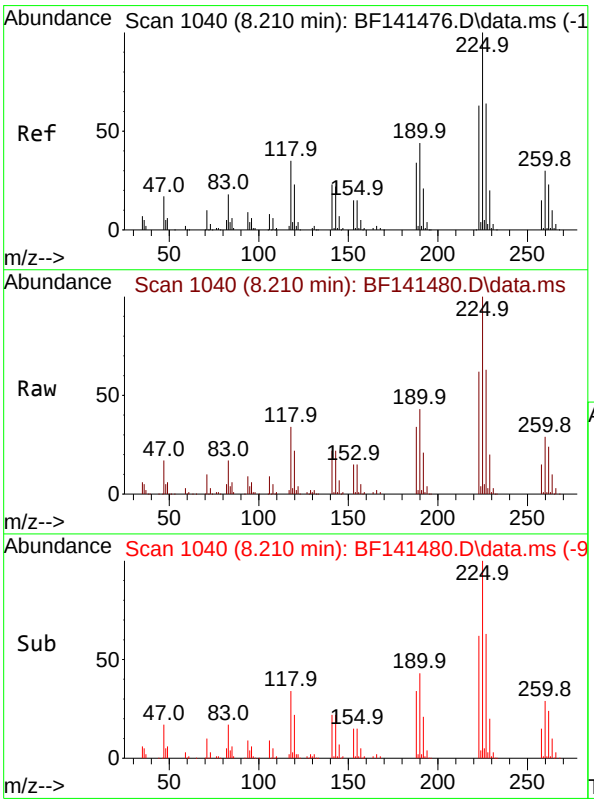
#33
4-Chloroaniline
Concen: 40.680 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:127 Resp: 267977

Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.5	39.7
65	32.9	26.4	39.6
92	19.7	15.3	22.9

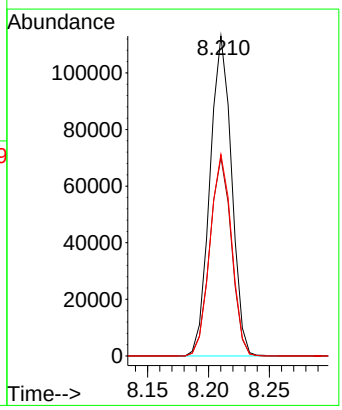


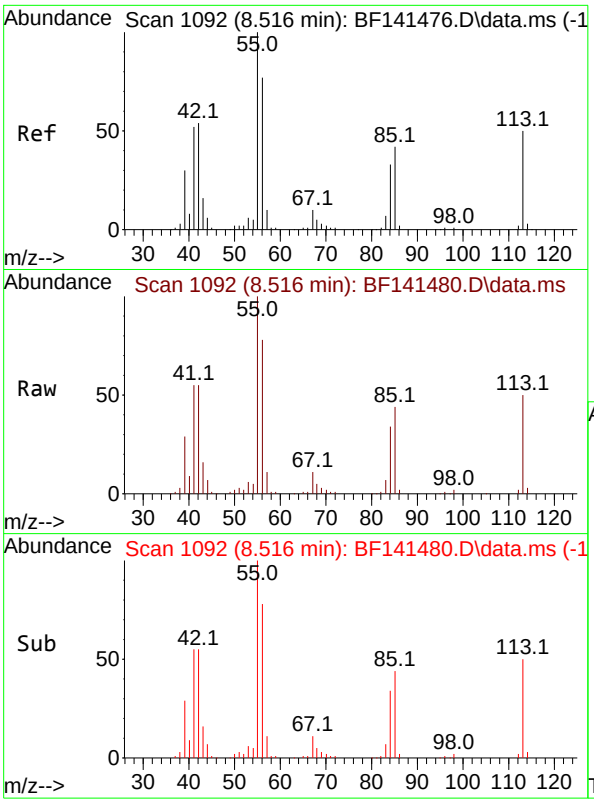


#34
Hexachlorobutadiene
Concen: 40.144 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:225 Resp: 139658

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.1	75.1
227	63.0	51.0	76.6



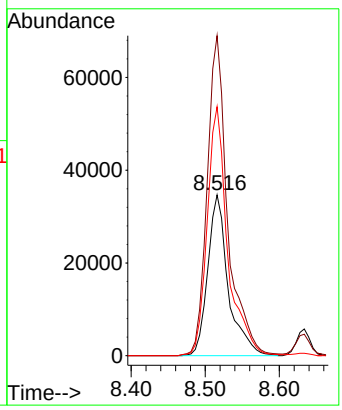


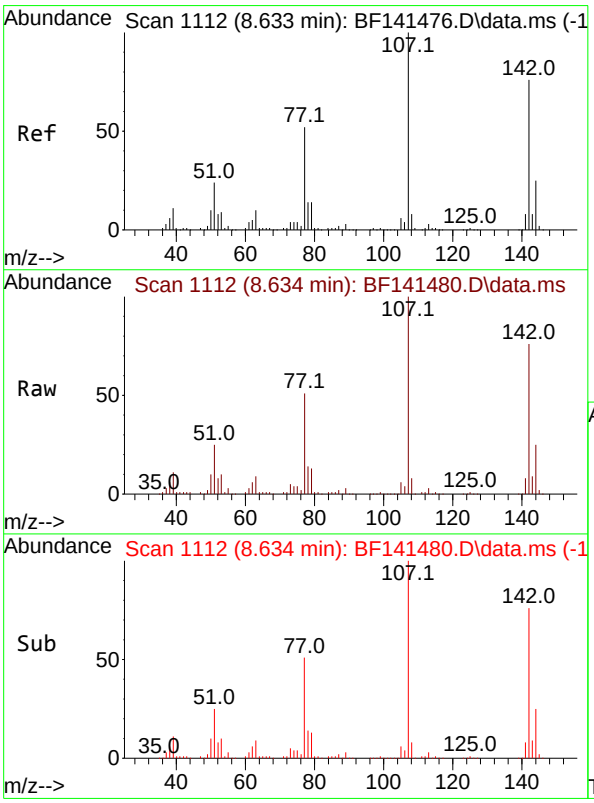
#35
Caprolactam
Concen: 41.104 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:113 Resp: 66599

Ion	Ratio	Lower	Upper
113	100		
55	199.0	180.8	220.8
56	154.8	133.6	173.6

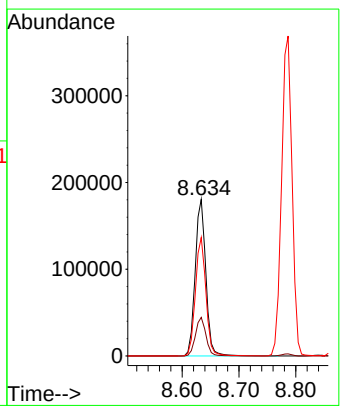


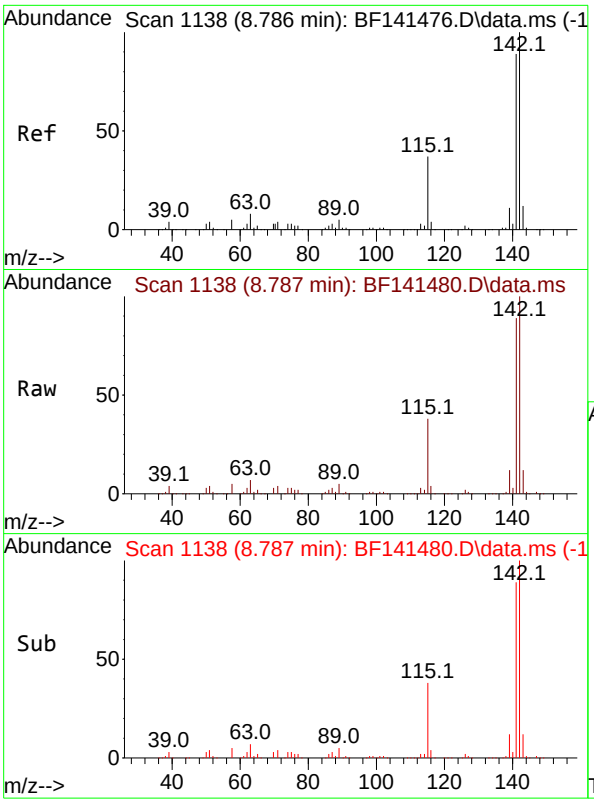


#36
4-Chloro-3-methylphenol
Concen: 40.006 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:107 Resp: 235824

Ion	Ratio	Lower	Upper
107	100		
144	24.7	19.7	29.5
142	75.6	60.8	91.2



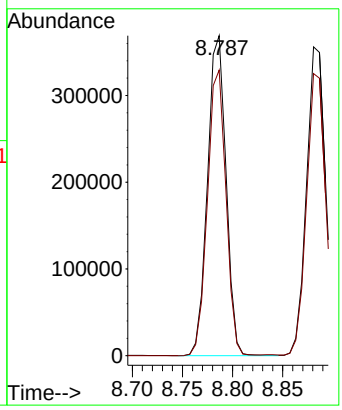


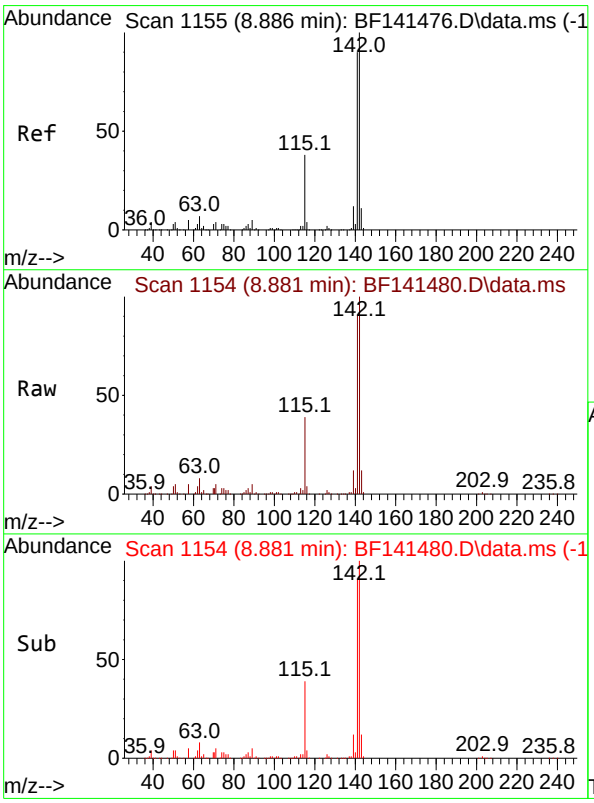
#37
2-Methylnaphthalene
Concen: 38.710 ng
RT: 8.787 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:142 Resp: 475273

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.2	106.8

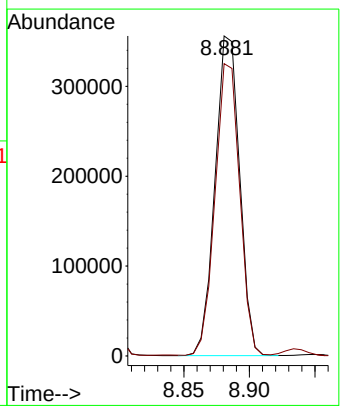


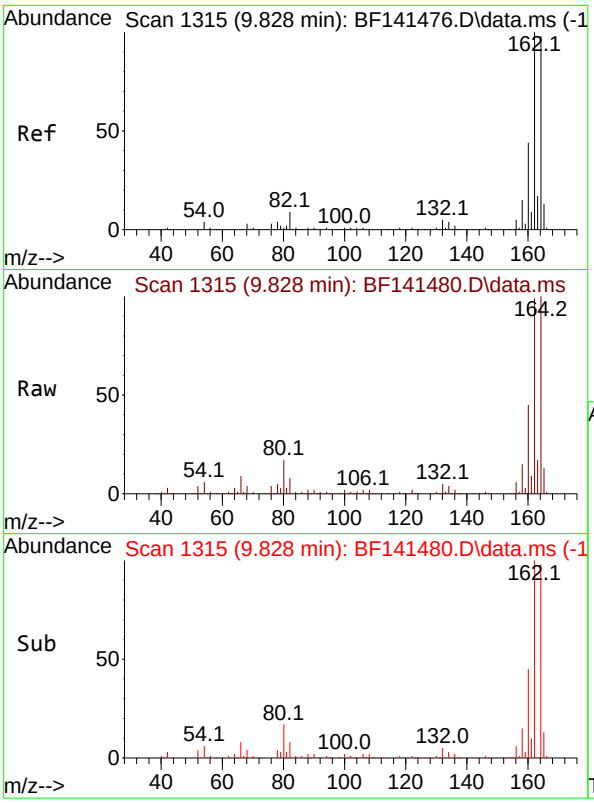


#38
1-Methylnaphthalene
Concen: 39.049 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:142 Resp: 464346

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.1	108.1



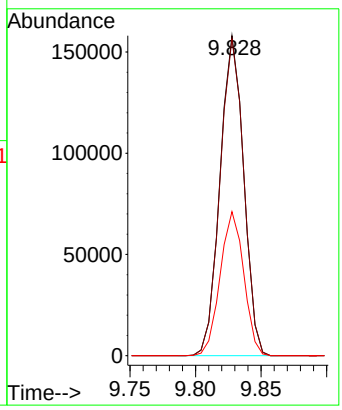


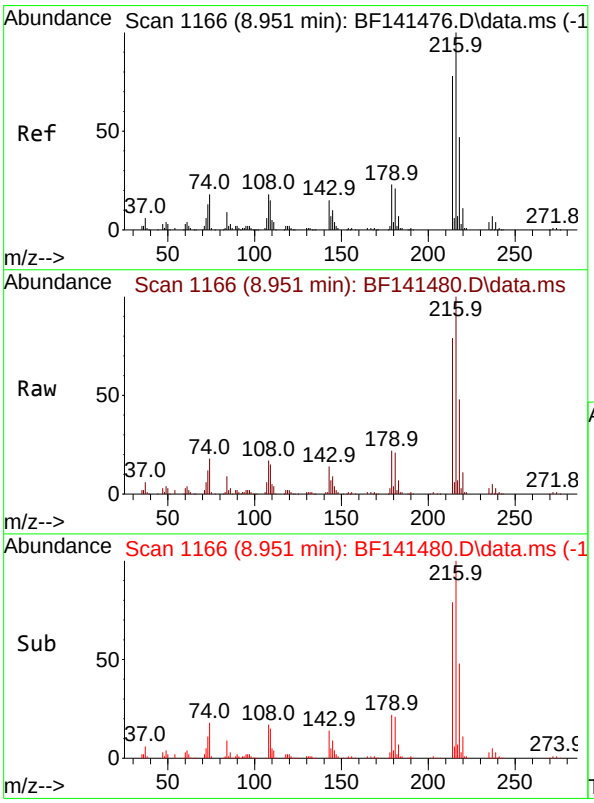
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:164 Resp: 197991

Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.3	121.9
160	45.0	35.9	53.9

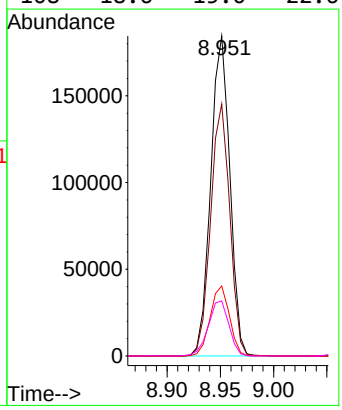


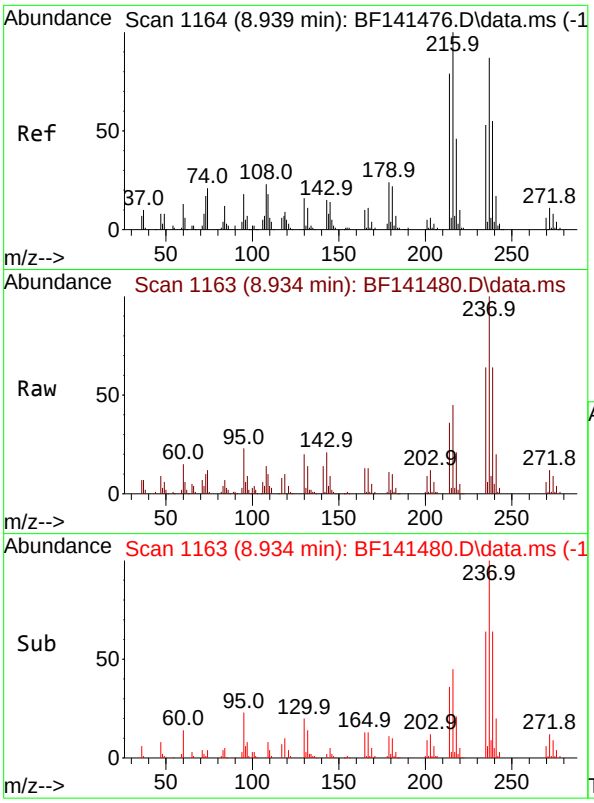


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.182 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:216 Resp: 230166

Ion	Ratio	Lower	Upper
216	100		
214	78.9	62.3	93.5
179	22.1	18.0	27.0
108	18.6	15.0	22.6



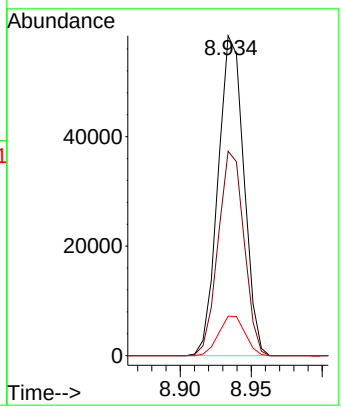


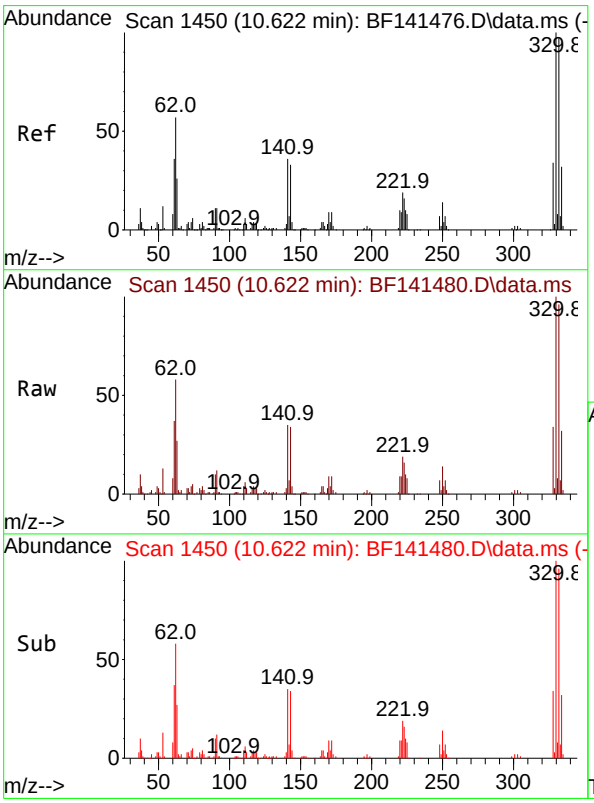
#41
Hexachlorocyclopentadiene
Concen: 38.754 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:237 Resp: 73834

Ion	Ratio	Lower	Upper
237	100		
235	63.9	41.4	81.4
272	12.4	0.0	32.4

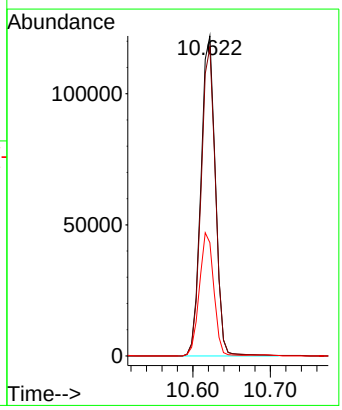


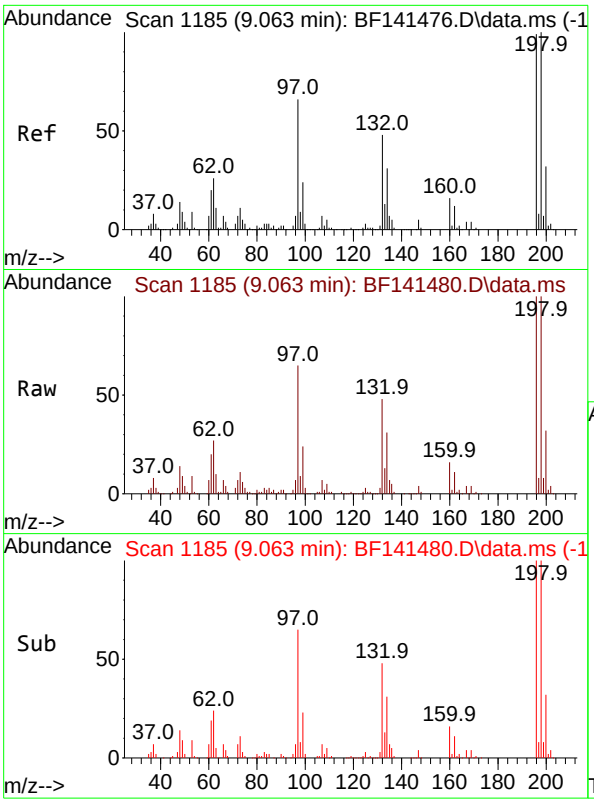


#42
2,4,6-Tribromophenol
Concen: 79.490 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:330 Resp: 158098

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.5	117.7
141	38.4	31.0	46.4



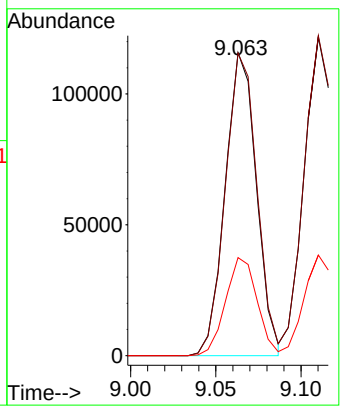


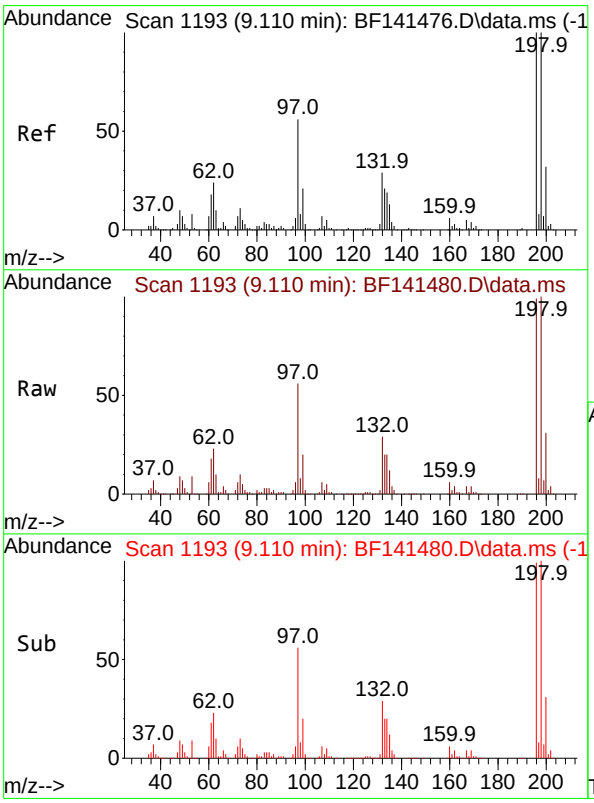
#43
2,4,6-Trichlorophenol
Concen: 39.914 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:196 Resp: 147770

Ion	Ratio	Lower	Upper
196	100		
198	99.8	80.6	121.0
200	32.3	25.5	38.3

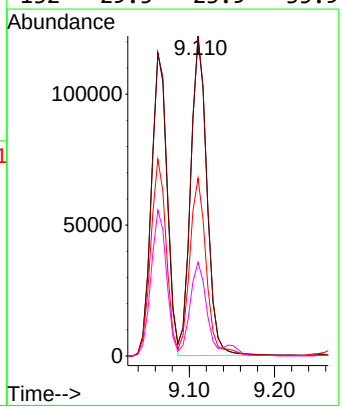


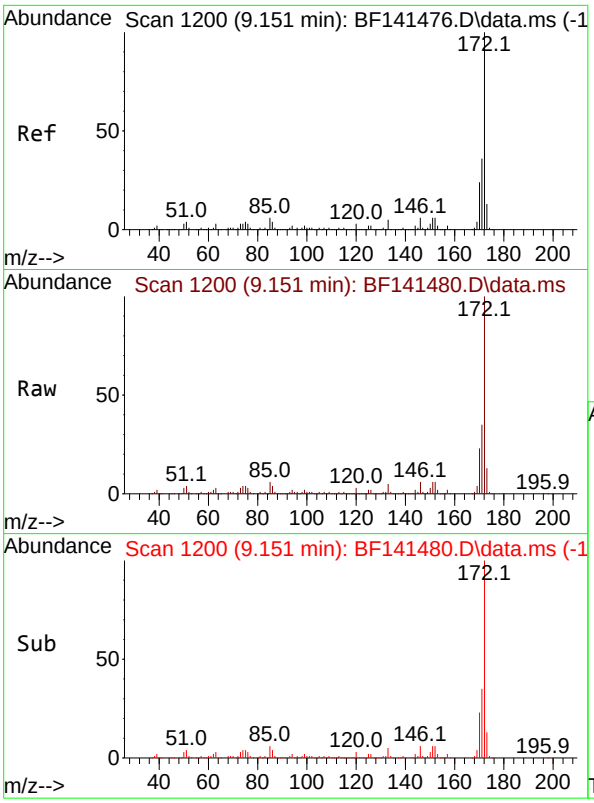


#44
2,4,5-Trichlorophenol
Concen: 40.108 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:196 Resp: 160926

Ion	Ratio	Lower	Upper
196	100		
198	100.5	79.8	119.8
97	55.8	44.8	67.2
132	29.5	23.9	35.9



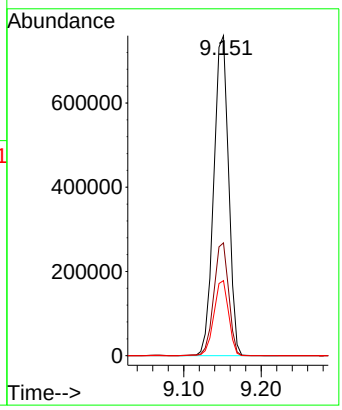


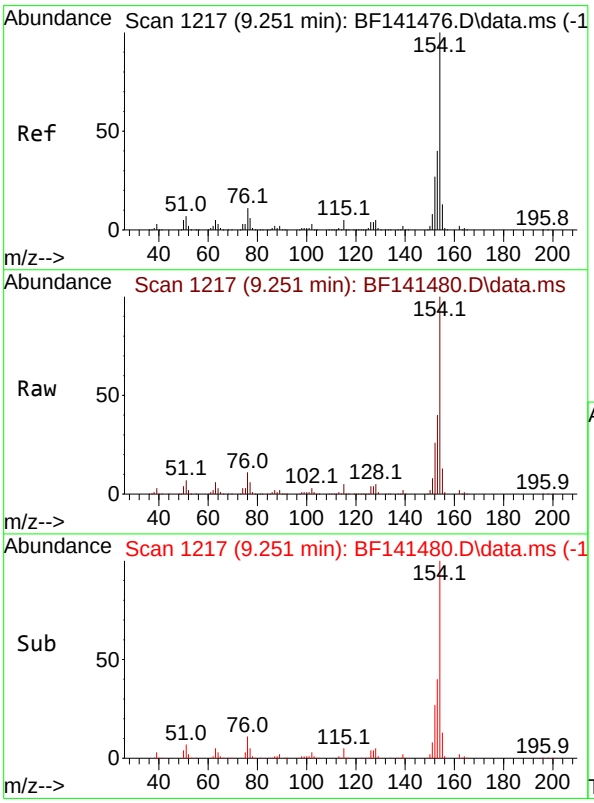
#45
2-Fluorobiphenyl
Concen: 78.786 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:172 Resp: 1012492

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.4	18.9	28.3

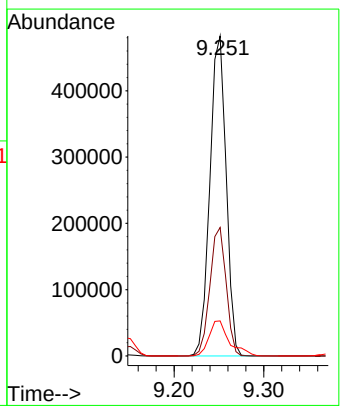


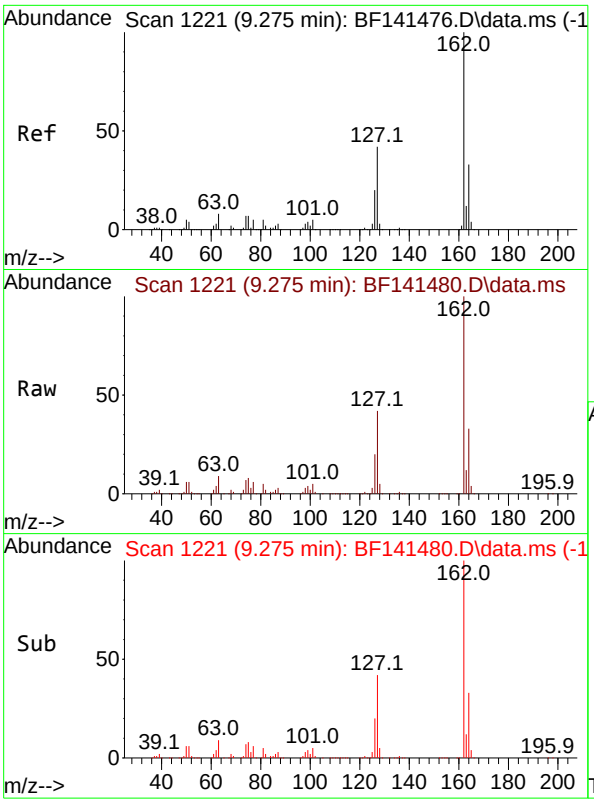


#46
1,1'-Biphenyl
Concen: 39.519 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:154 Resp: 606611

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.4	60.4
76	10.9	0.0	30.8



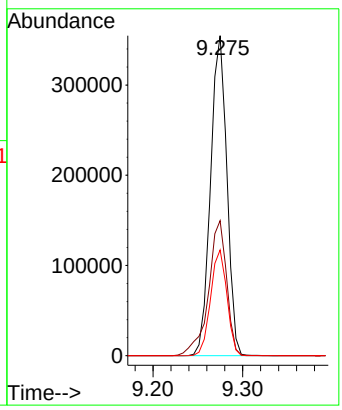


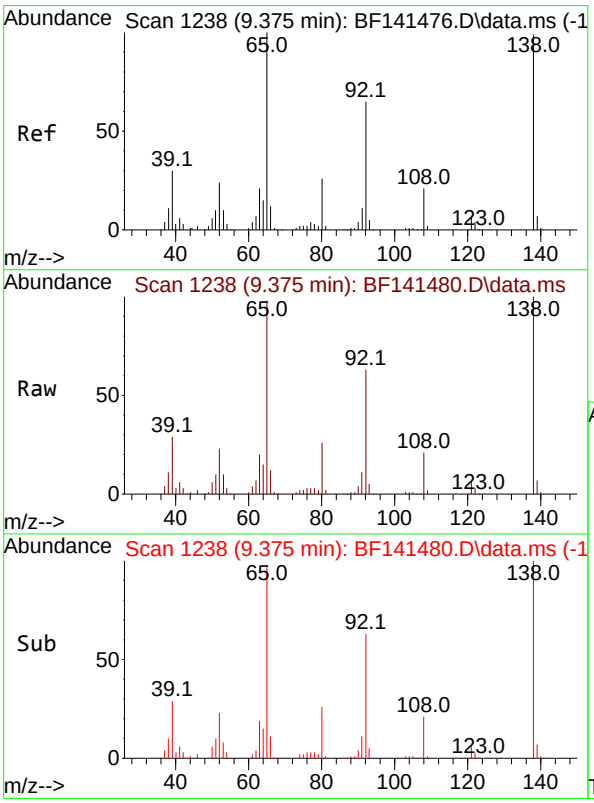
#47
2-Chloronaphthalene
Concen: 39.453 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:162 Resp: 447817

Ion	Ratio	Lower	Upper
162	100		
127	42.2	34.1	51.1
164	33.1	26.3	39.5

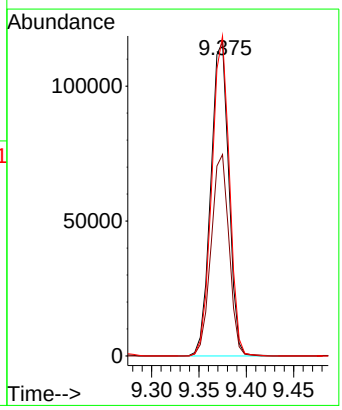


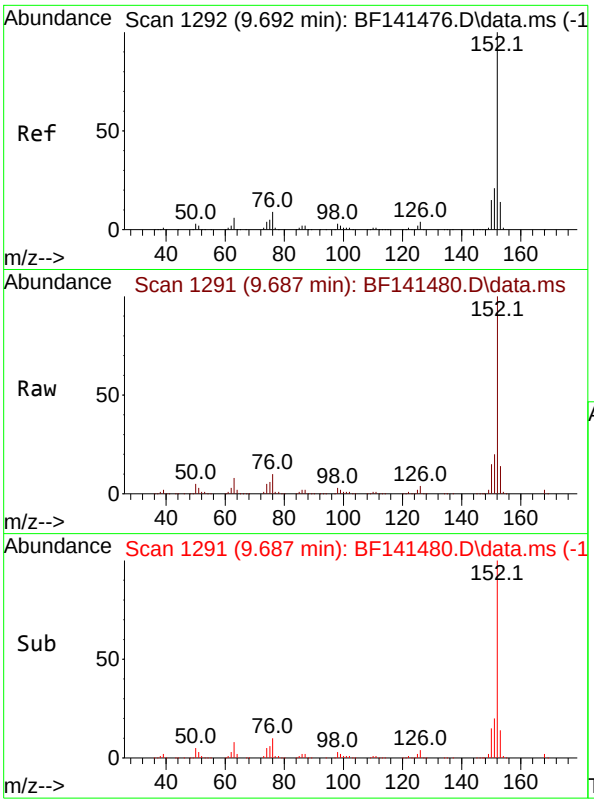


#48
2-Nitroaniline
Concen: 40.451 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion: 65 Resp: 154092

Ion	Ratio	Lower	Upper
65	100		
92	64.2	52.2	78.2
138	101.9	79.5	119.3



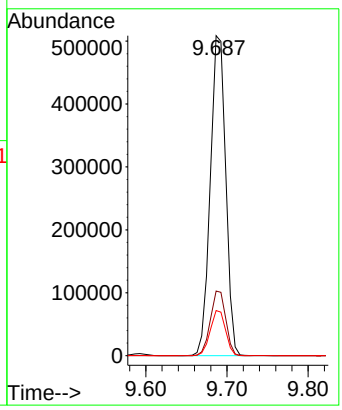


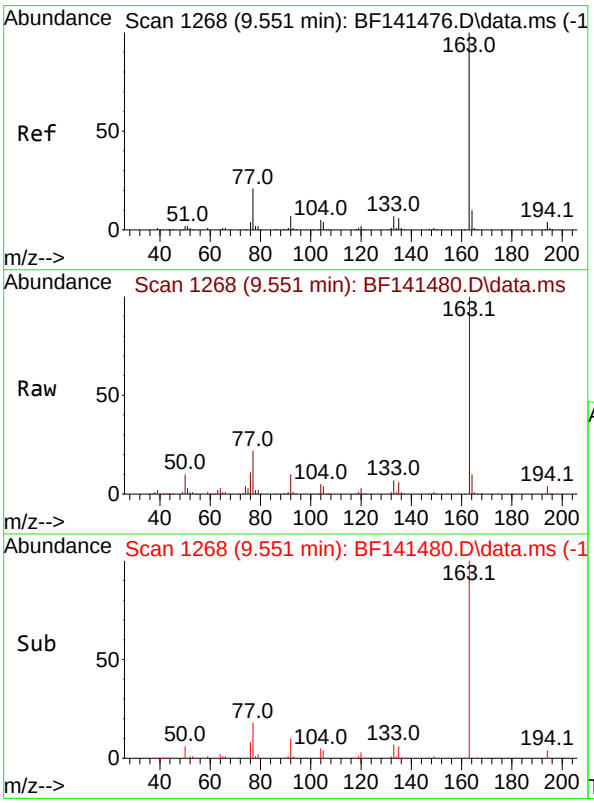
#49
Acenaphthylene
Concen: 39.734 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:152 Resp: 670833

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	14.1	10.9	16.3

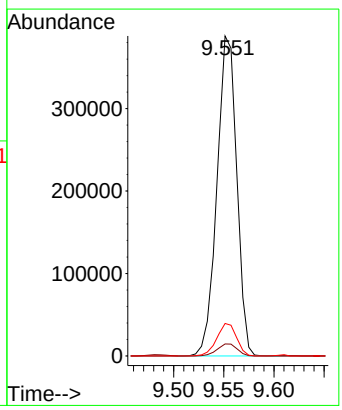


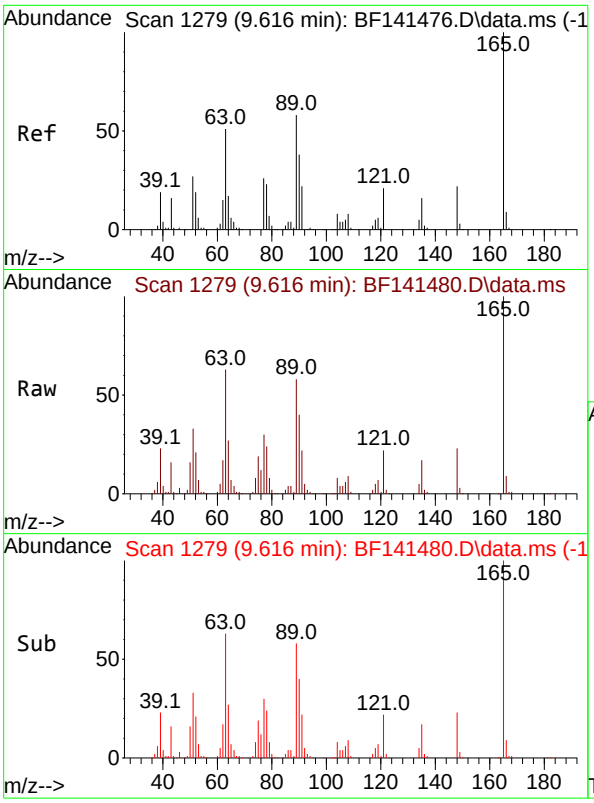


#50
Dimethylphthalate
Concen: 39.488 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:163 Resp: 530769

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.2	7.9	11.9



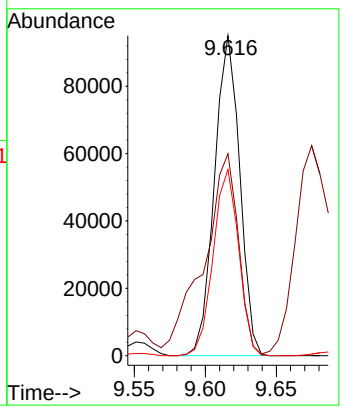


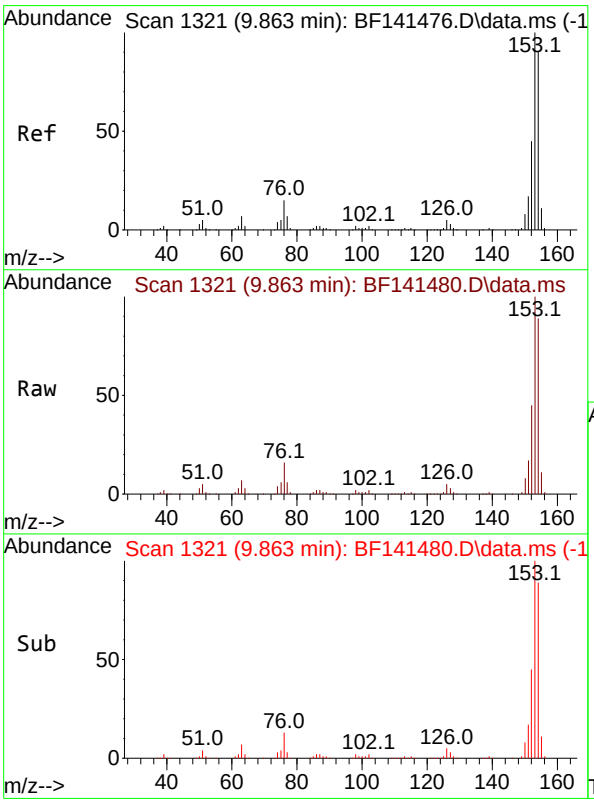
#51
2,6-Dinitrotoluene
Concen: 39.965 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:165 Resp: 117431

Ion	Ratio	Lower	Upper
165	100		
63	63.1	49.4	74.0
89	58.2	46.5	69.7

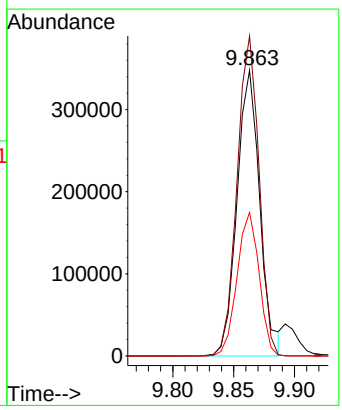


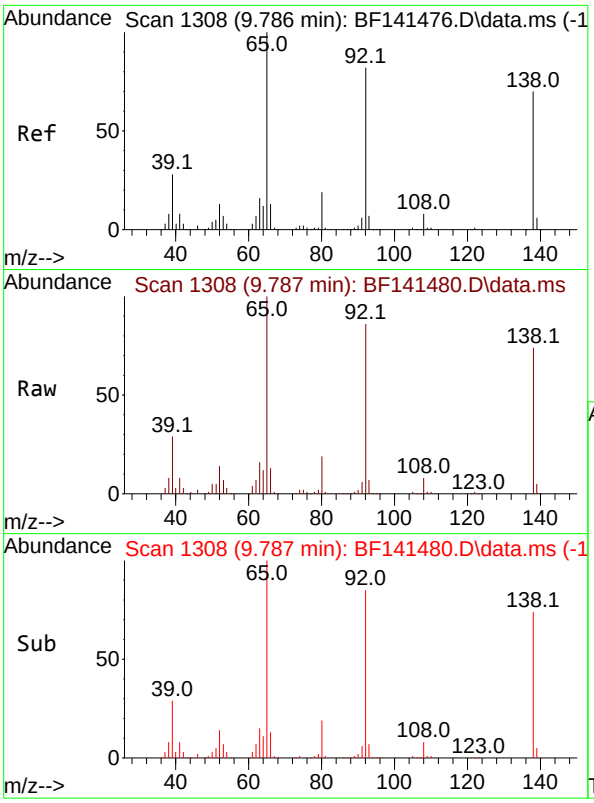


#52
Acenaphthene
Concen: 39.893 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:154 Resp: 452794

Ion	Ratio	Lower	Upper
154	100		
153	112.0	89.2	133.8
152	50.2	39.8	59.8



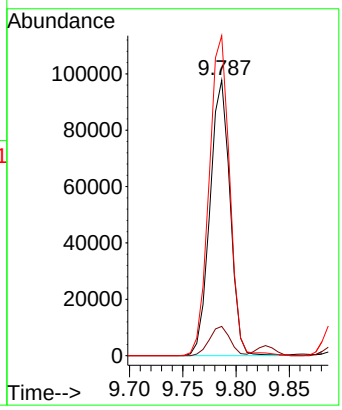


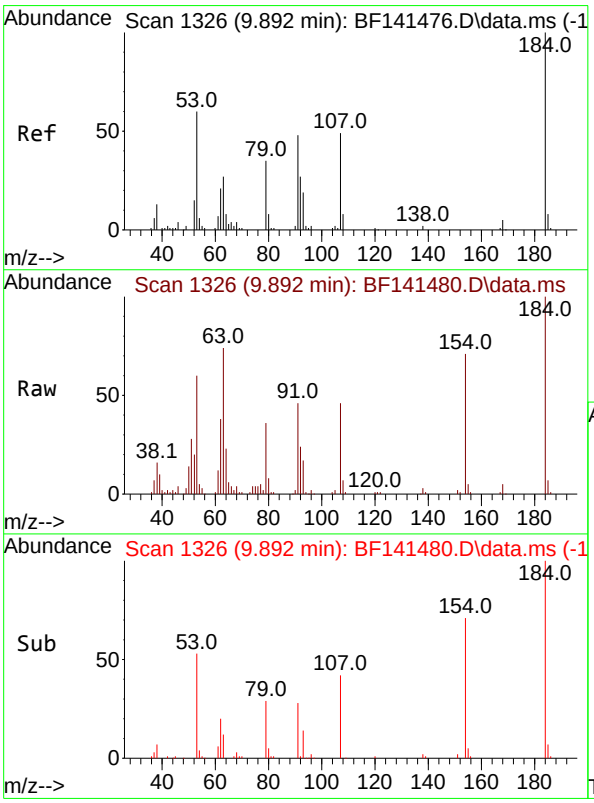
#53
3-Nitroaniline
Concen: 40.463 ng
RT: 9.787 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:138 Resp: 127965

Ion	Ratio	Lower	Upper
138	100		
108	10.7	9.0	13.4
92	116.2	93.7	140.5

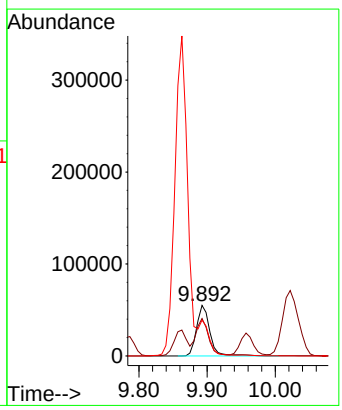


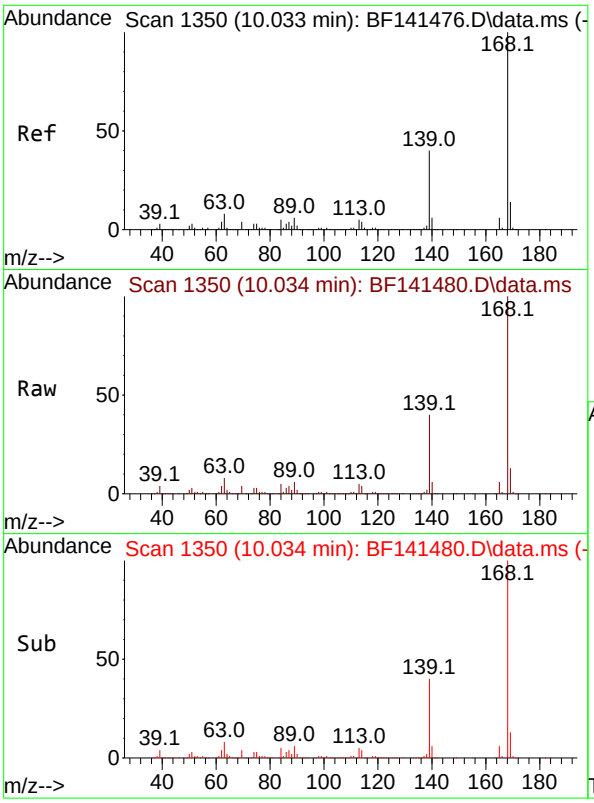


#54
2,4-Dinitrophenol
Concen: 42.639 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:184 Resp: 74461

Ion	Ratio	Lower	Upper
184	100		
63	74.2	61.0	91.6
154	71.0	59.9	89.9



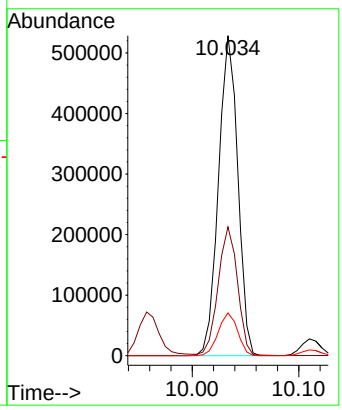


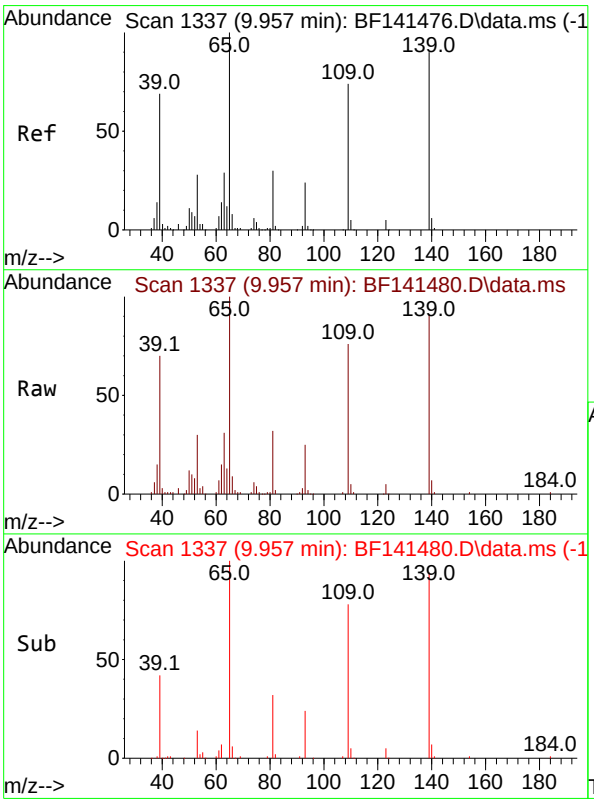
#55
Dibenzofuran
Concen: 39.860 ng
RT: 10.034 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:168 Resp: 664069

Ion	Ratio	Lower	Upper
168	100		
139	40.2	32.7	49.1
169	13.4	10.8	16.2

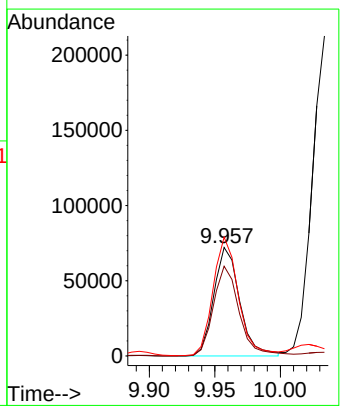


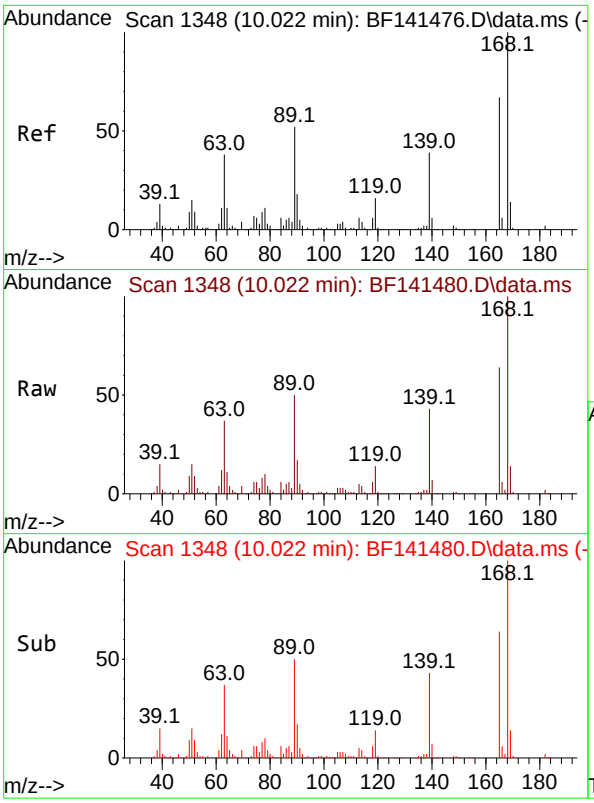


#56
4-Nitrophenol
Concen: 42.166 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:139 Resp: 98990

Ion	Ratio	Lower	Upper
139	100		
109	82.7	62.0	102.0
65	109.5	91.2	131.2



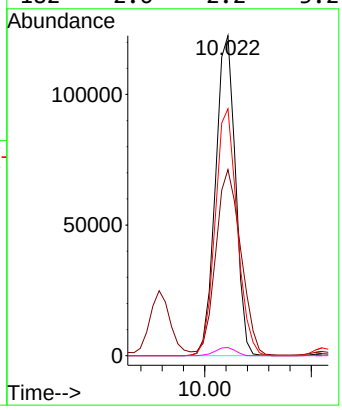


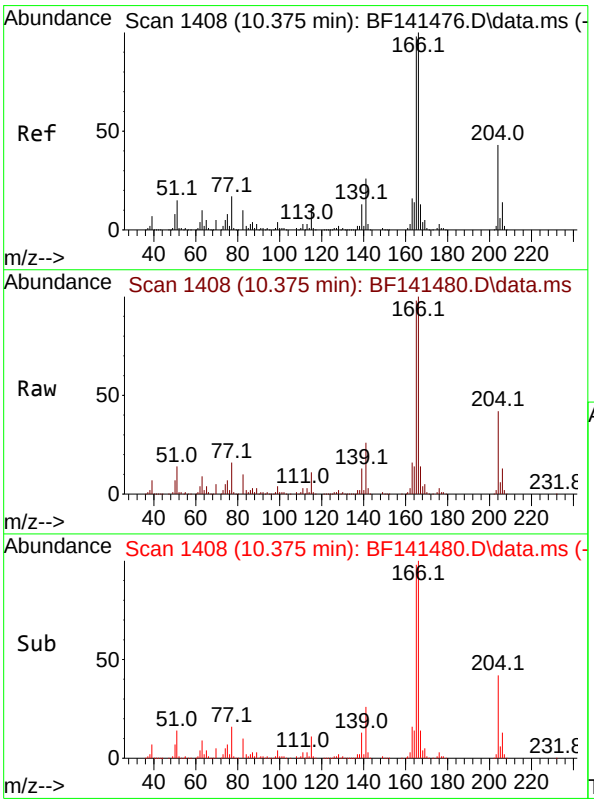
#57
2,4-Dinitrotoluene
Concen: 40.633 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:165 Resp: 158941

Ion	Ratio	Lower	Upper
165	100		
63	58.1	46.4	69.6
89	77.2	61.8	92.6
182	2.6	2.2	3.2

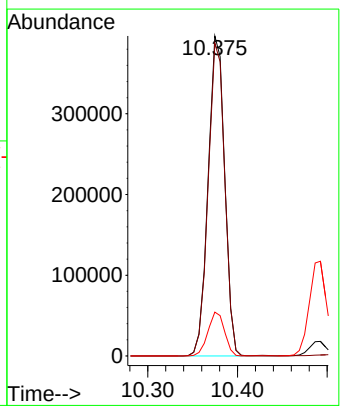


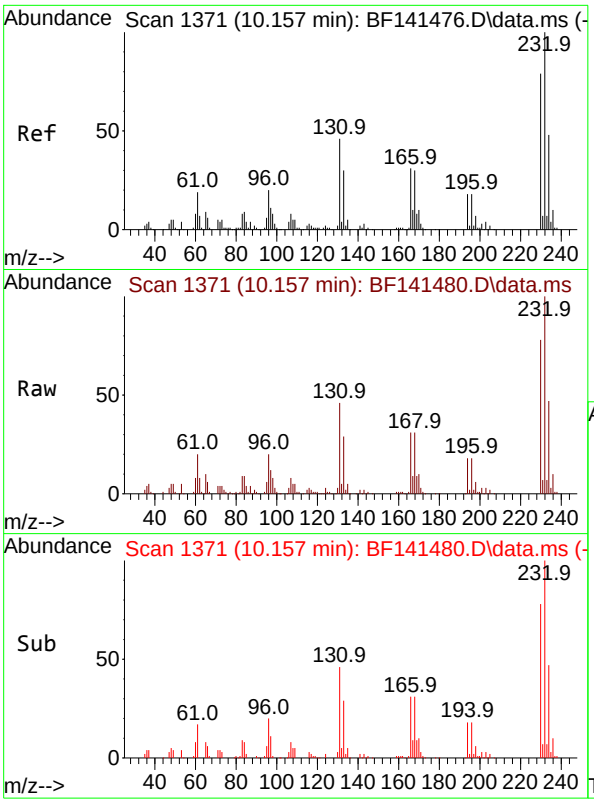


#58
Fluorene
Concen: 39.501 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:166 Resp: 508833

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.2
167	13.7	10.7	16.1



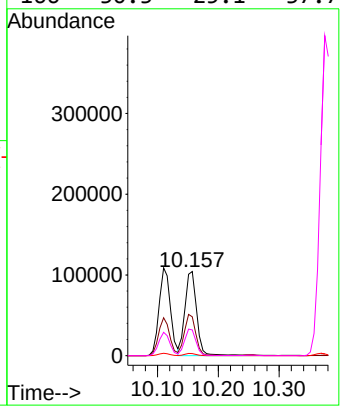


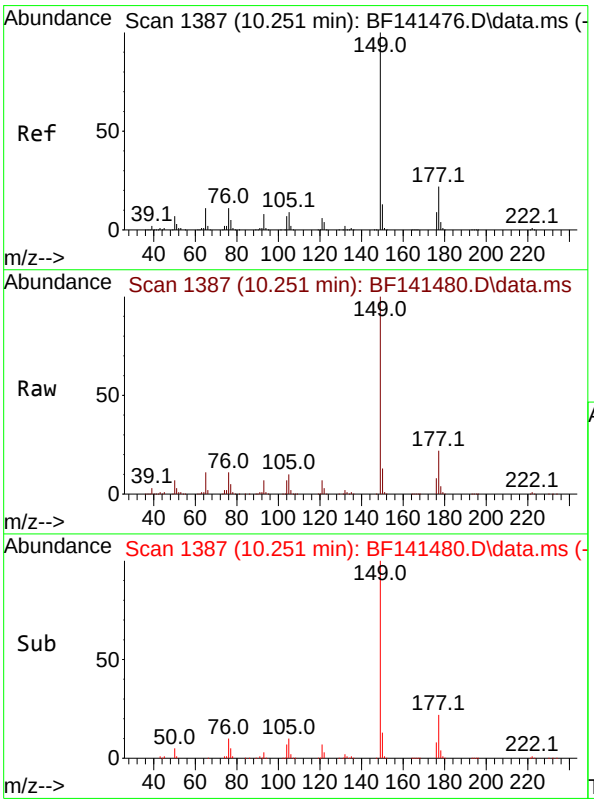
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.438 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:232 Resp: 139688

Ion	Ratio	Lower	Upper
232	100		
131	46.8	39.2	58.8
130	2.6	2.1	3.1
166	30.3	25.1	37.7

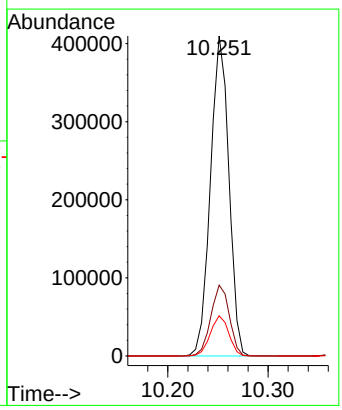


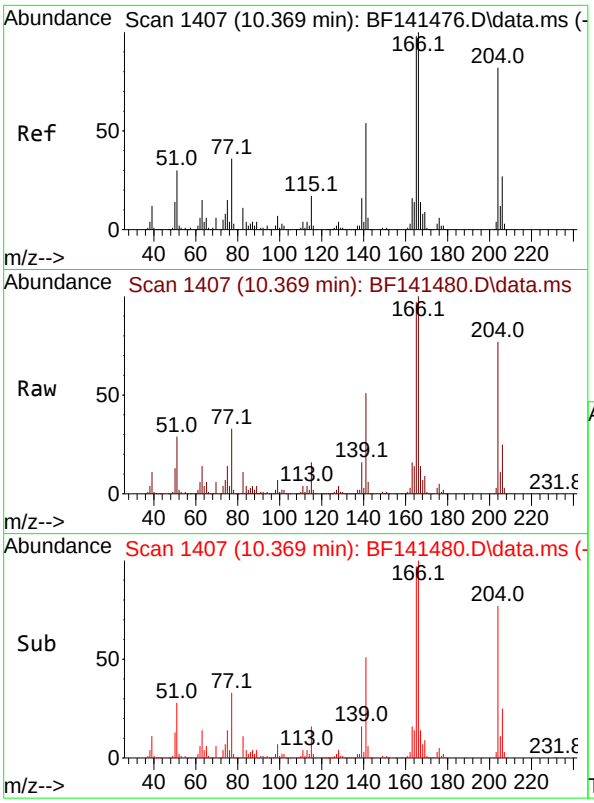


#60
Diethylphthalate
Concen: 39.467 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 521933

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.6	10.1	15.1



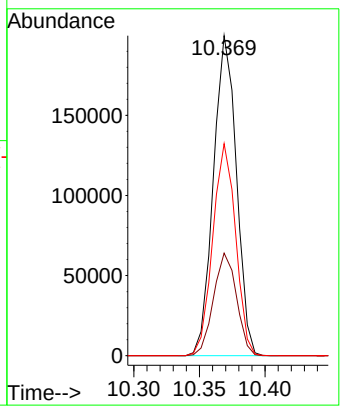


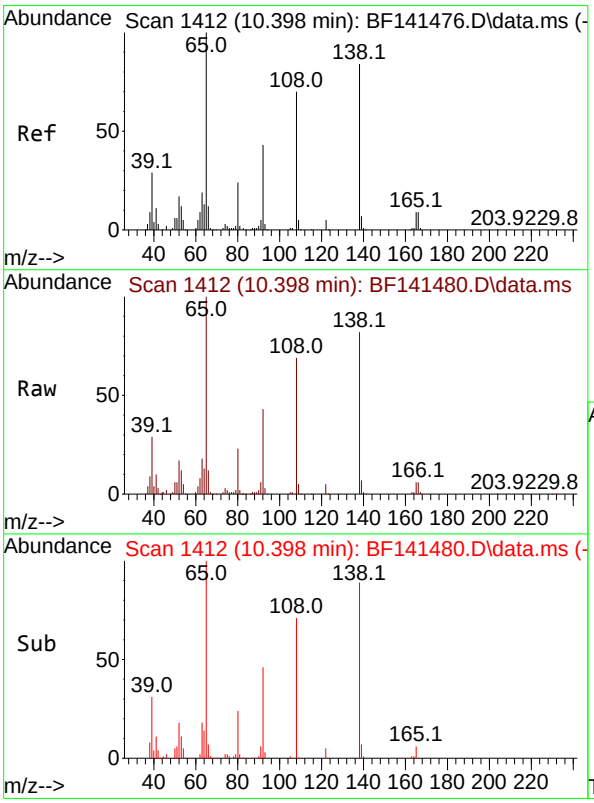
#61
4-Chlorophenyl-phenylether
Concen: 39.318 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:204 Resp: 243659

Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.6	40.0
141	66.2	51.9	77.9

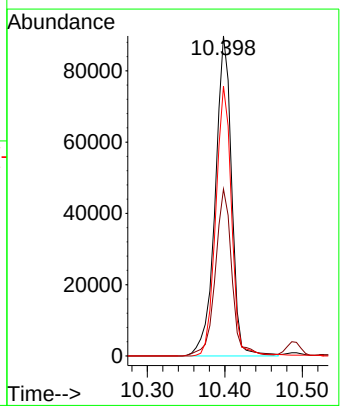


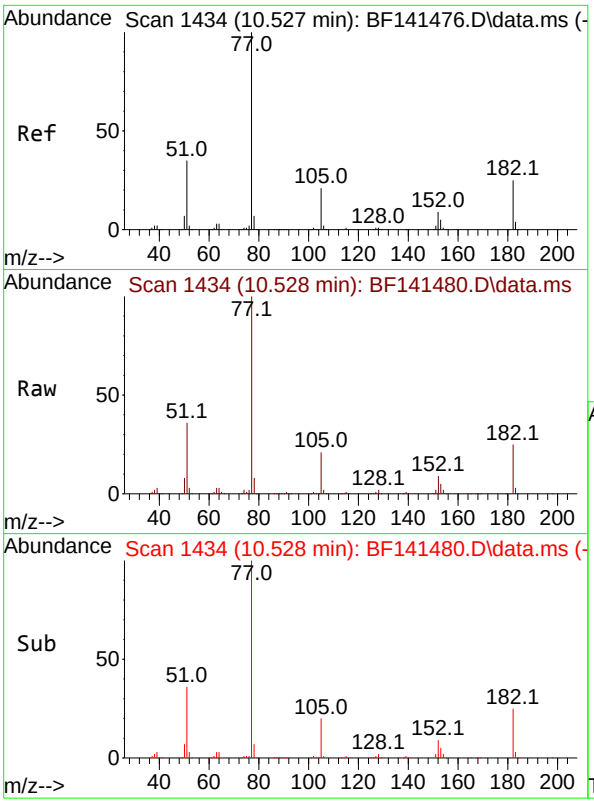


#62
4-Nitroaniline
Concen: 41.124 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:138 Resp: 132059

Ion	Ratio	Lower	Upper
138	100		
92	52.1	31.3	71.3
108	84.3	63.7	103.7



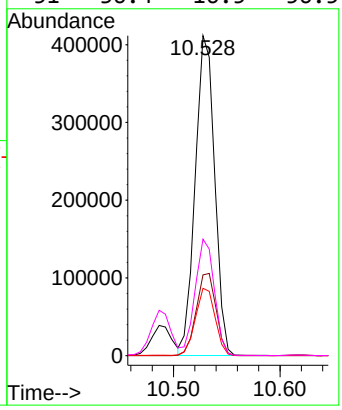


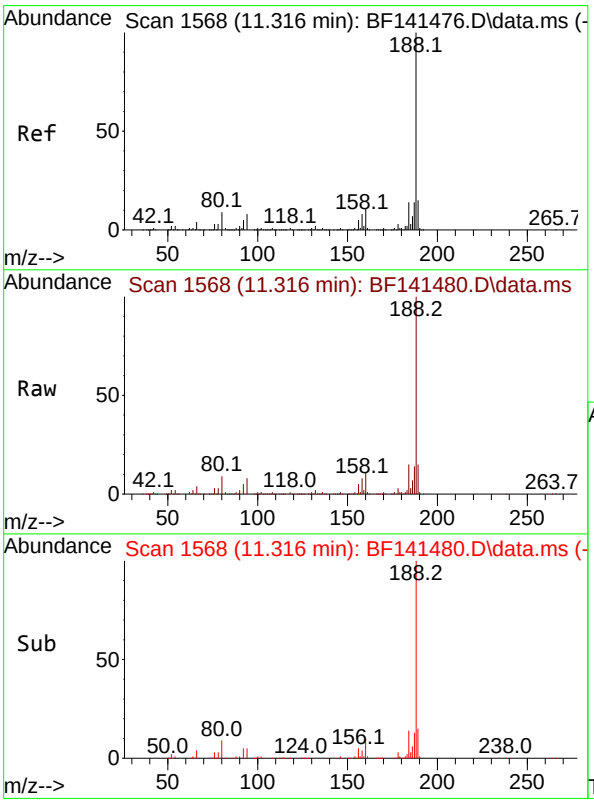
#63
Azobenzene
Concen: 39.759 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion: 77 Resp: 522705

Ion	Ratio	Lower	Upper
77	100		
182	25.2	4.7	44.7
105	21.0	0.4	40.4
51	36.4	16.5	56.5

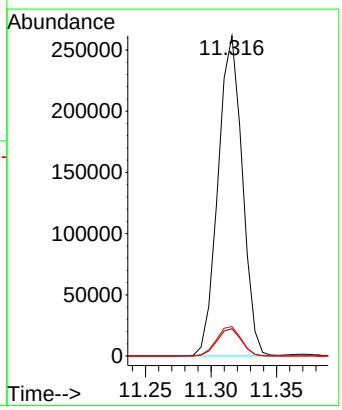


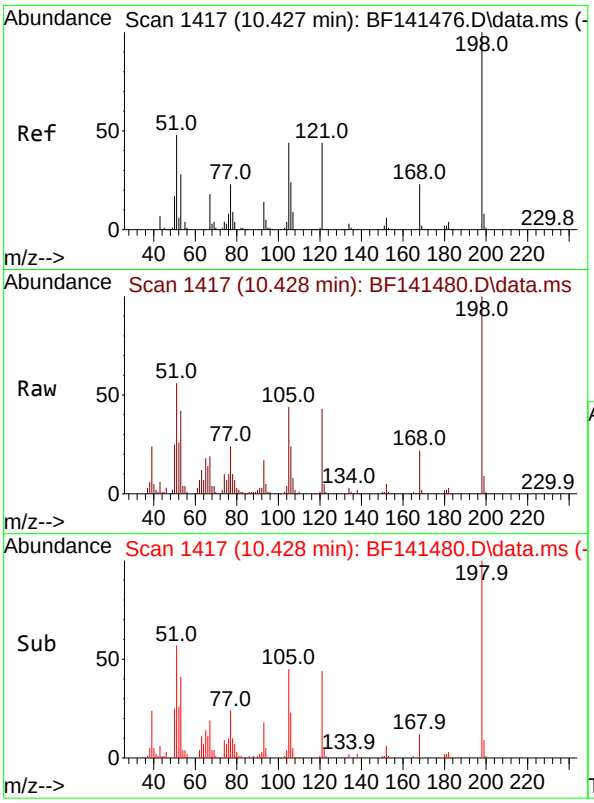


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:188 Resp: 337289

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.2	7.3	10.9



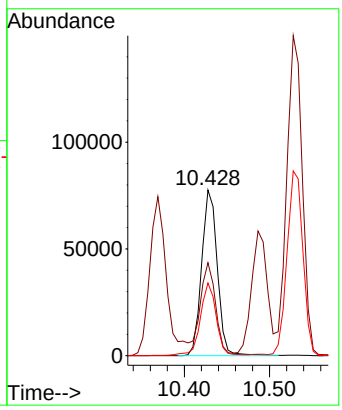


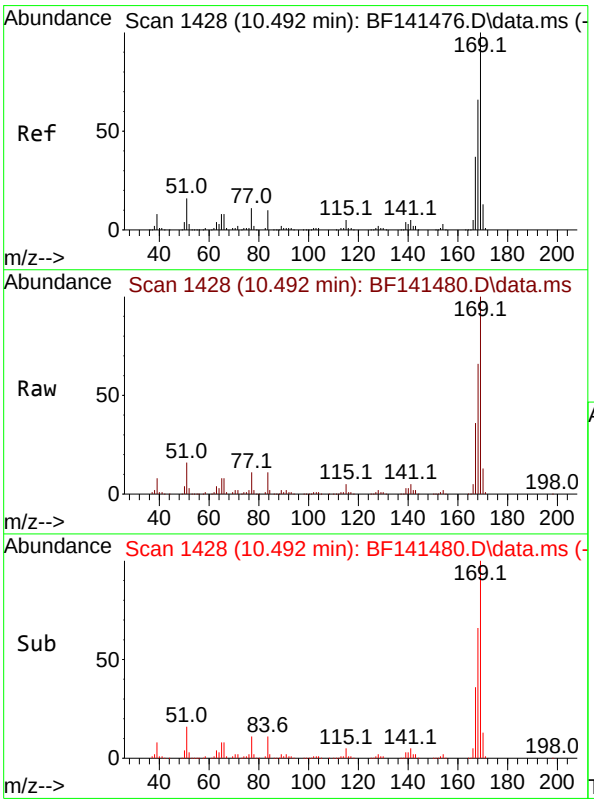
#65
4,6-Dinitro-2-methylphenol
Concen: 42.230 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:198 Resp: 98944

Ion	Ratio	Lower	Upper
198	100		
51	56.2	37.4	77.4
105	43.9	25.2	65.2

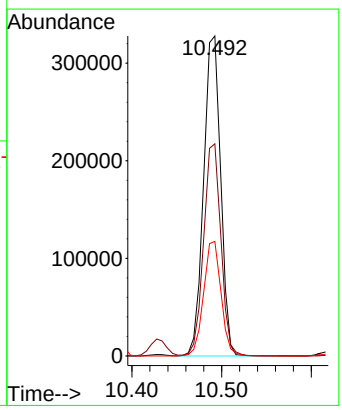


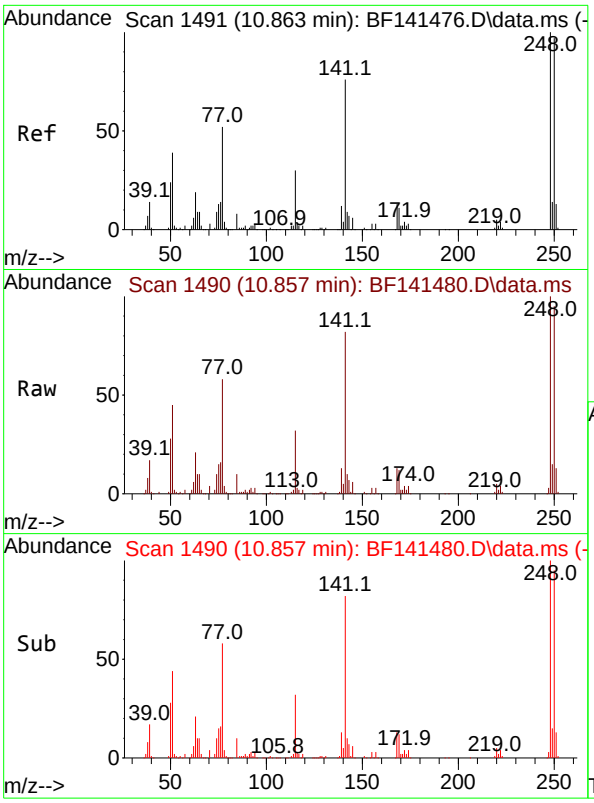


#66
n-Nitrosodiphenylamine
Concen: 40.040 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:169 Resp: 432307

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.3	79.9
167	35.8	29.4	44.2



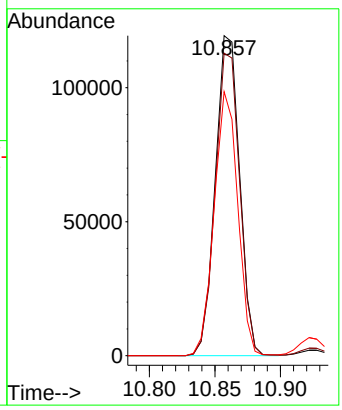


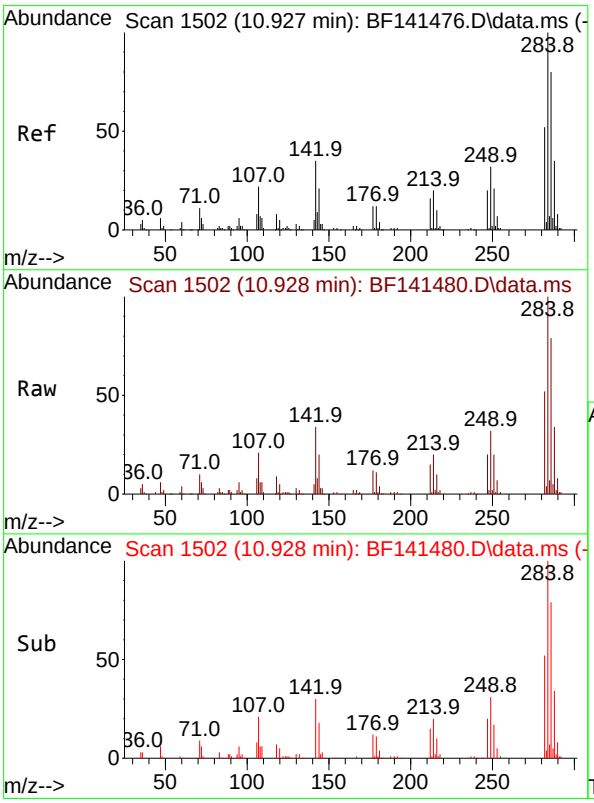
#67
4-Bromophenyl-phenylether
Concen: 40.864 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:248 Resp: 154044

Ion	Ratio	Lower	Upper
248	100		
250	94.5	77.8	116.6
141	82.5	60.6	90.8

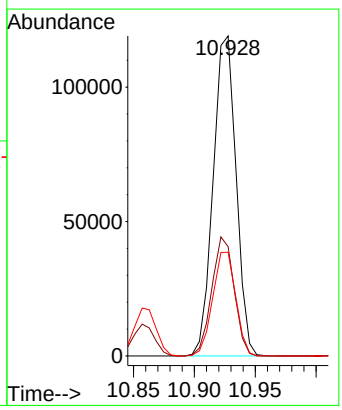


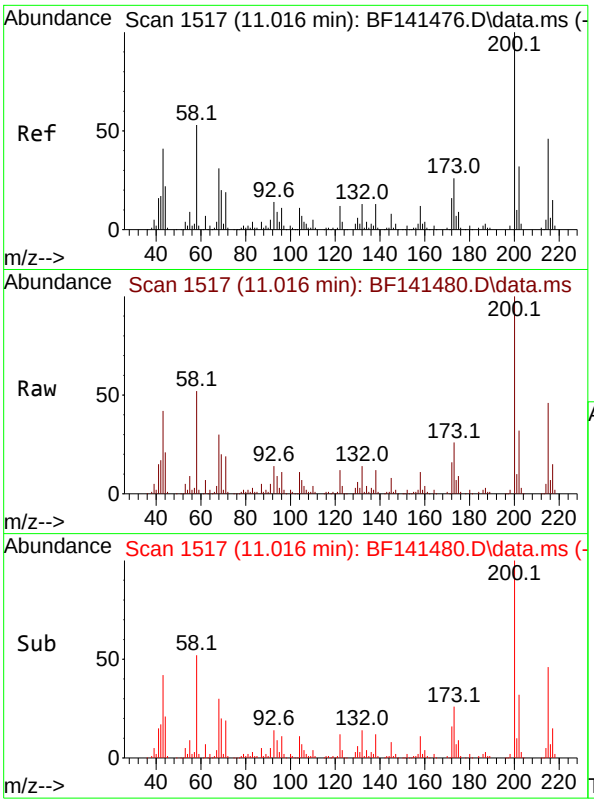


#68
Hexachlorobenzene
Concen: 40.208 ng
RT: 10.928 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:284 Resp: 156075

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	32.4	25.8	38.8



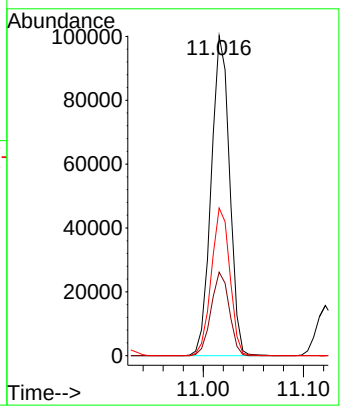


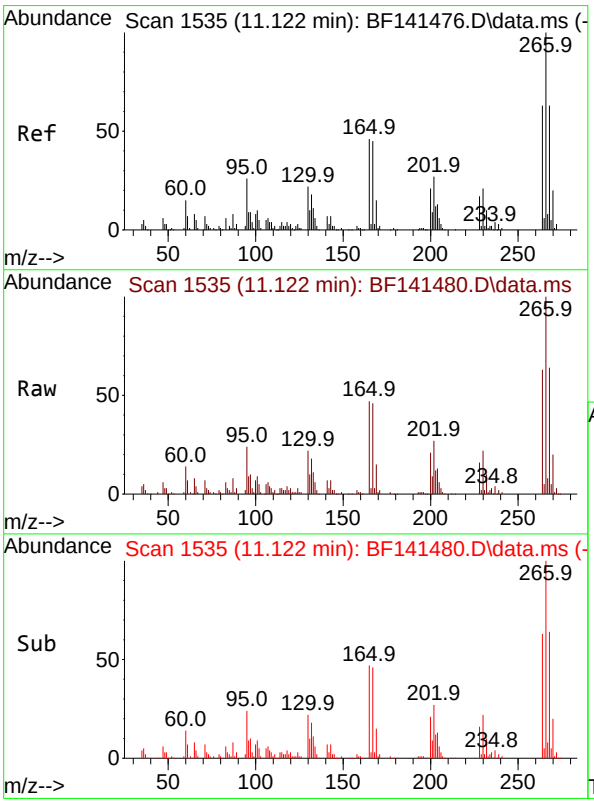
#69
Atrazine
Concen: 39.358 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:200 Resp: 127486

Ion	Ratio	Lower	Upper
200	100		
173	26.1	5.9	45.9
215	46.2	25.9	65.9

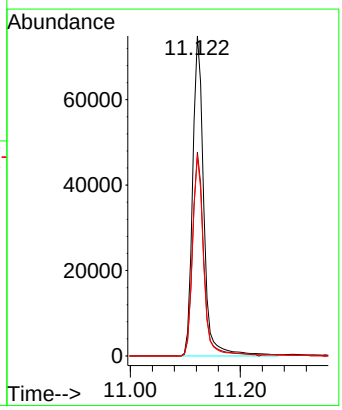


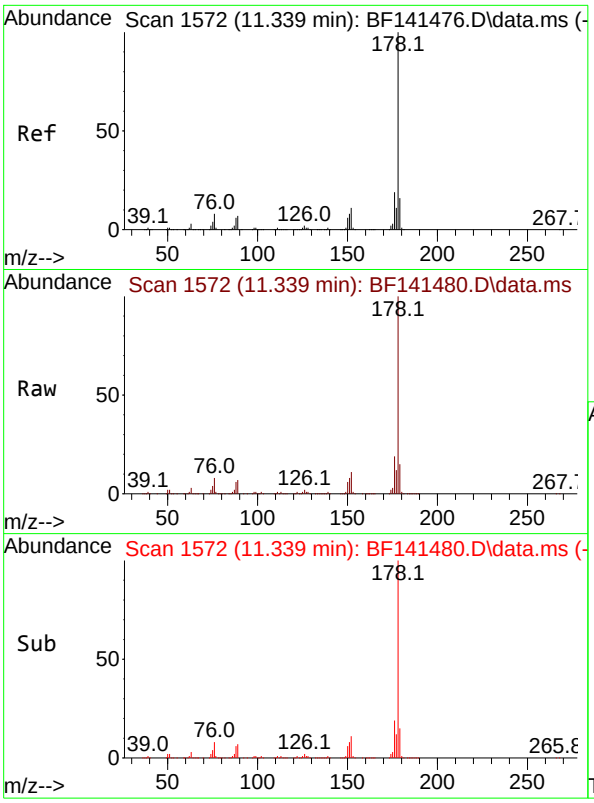


#70
Pentachlorophenol
Concen: 42.476 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:266 Resp: 105427

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.1	75.1
264	62.5	50.1	75.1



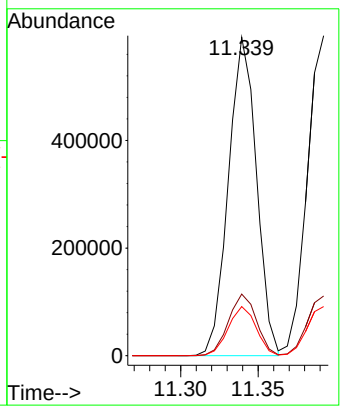


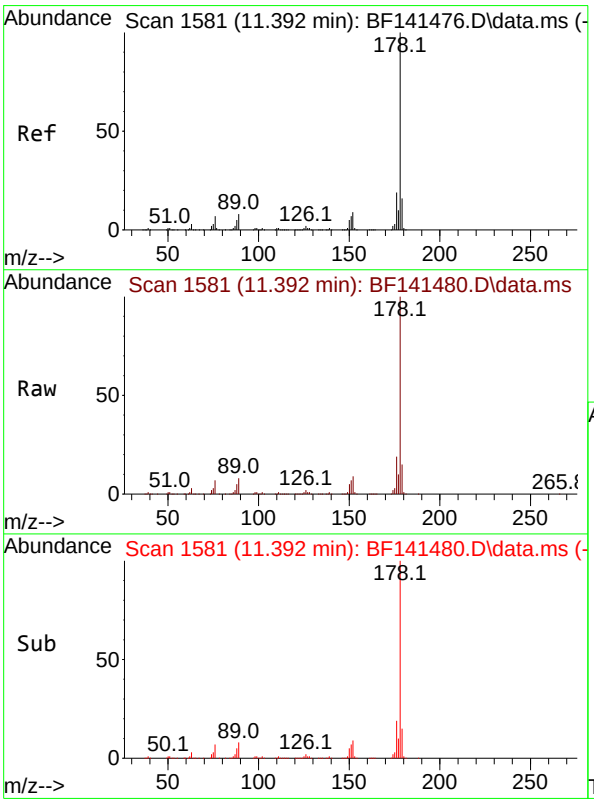
#71
Phenanthrene
Concen: 40.114 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:178 Resp: 744761

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.4	12.4	18.6

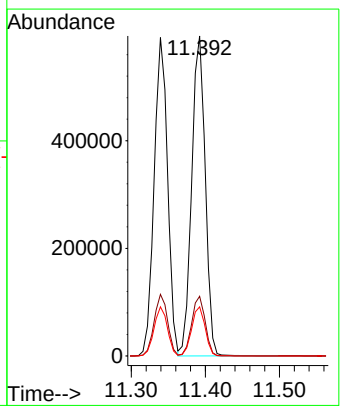


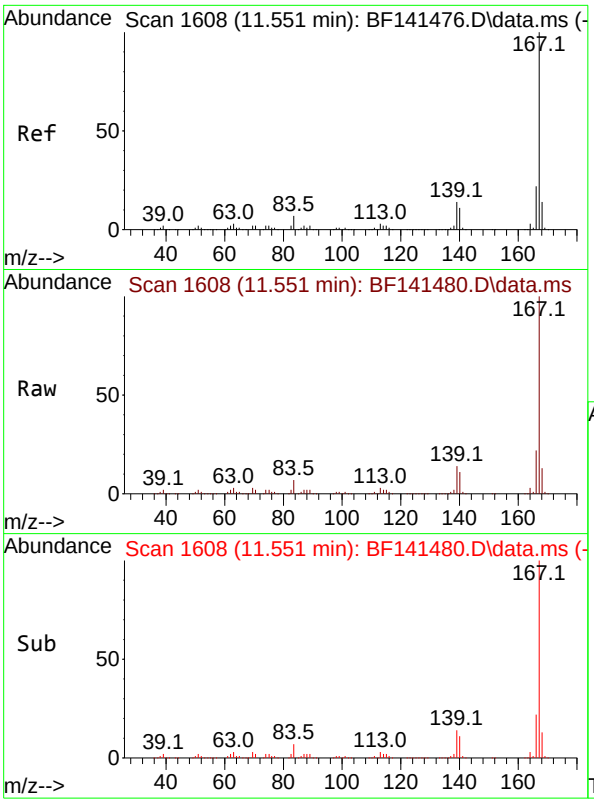


#72
Anthracene
Concen: 40.362 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:178 Resp: 753295

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.3	12.4	18.6



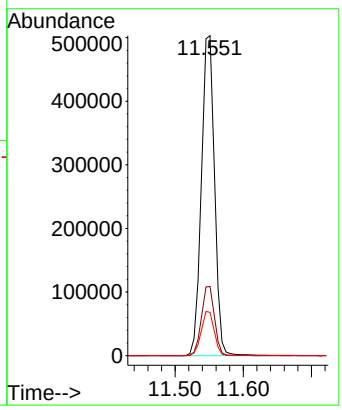


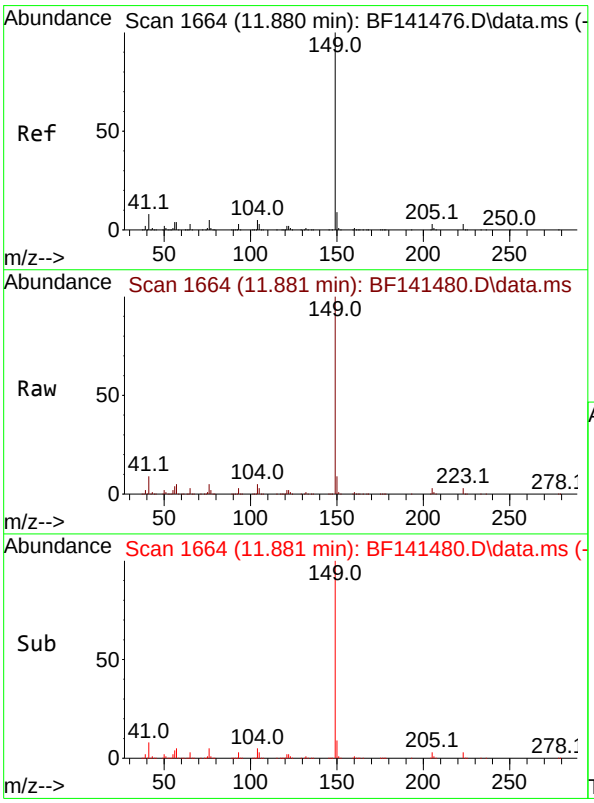
#73
Carbazole
Concen: 40.267 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:167 Resp: 676218

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.6	10.9	16.3

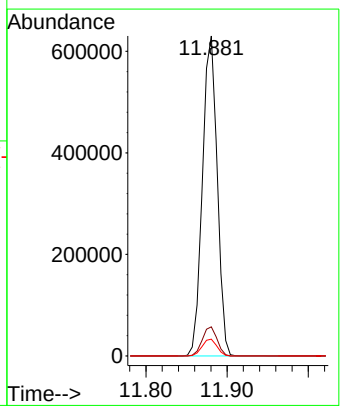


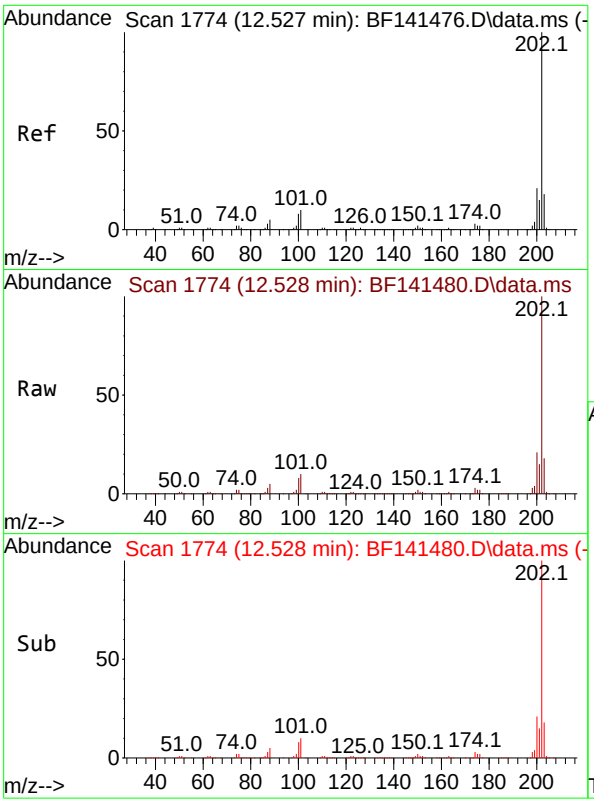


#74
Di-n-butylphthalate
Concen: 40.953 ng
RT: 11.881 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 794101

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.2	4.2	6.2



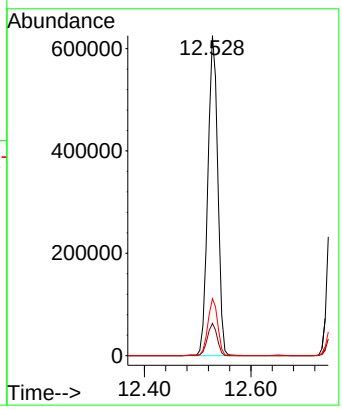


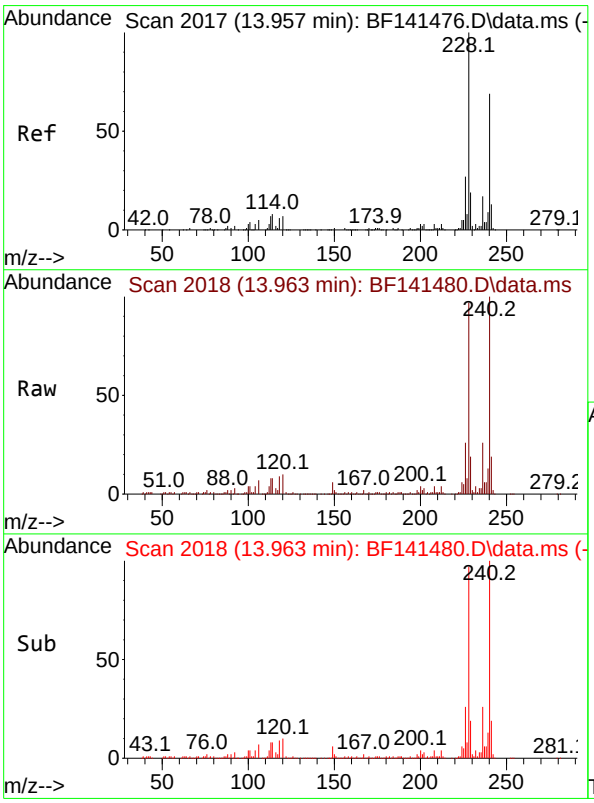
#75
Fluoranthene
Concen: 41.011 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:202 Resp: 807256

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.8	0.0	37.6

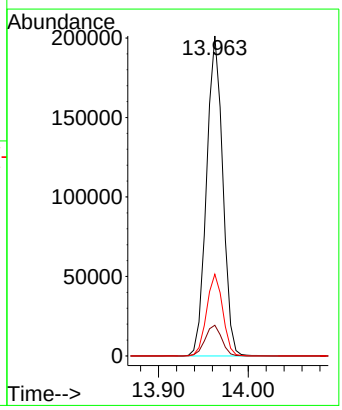


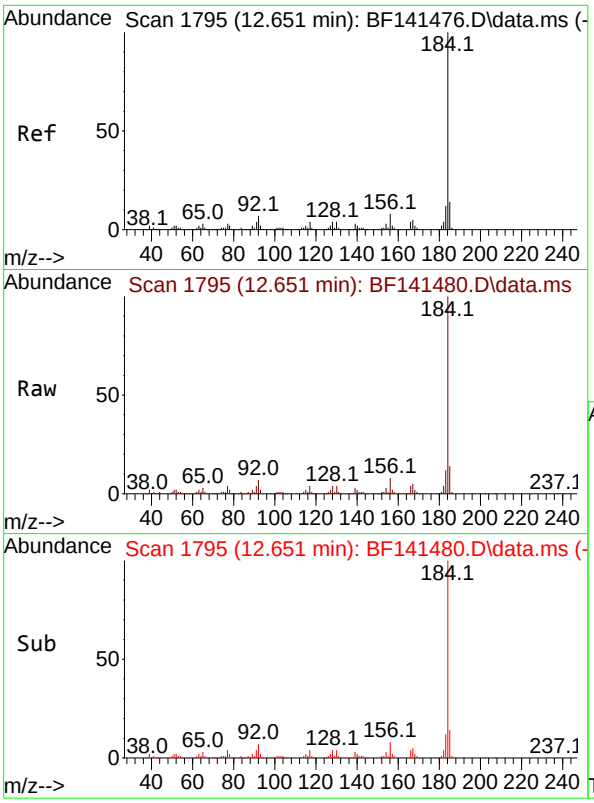


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:240 Resp: 252530

Ion	Ratio	Lower	Upper
240	100		
120	9.6	8.0	12.0
236	25.6	19.8	29.8



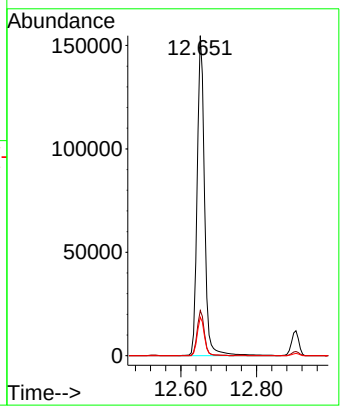


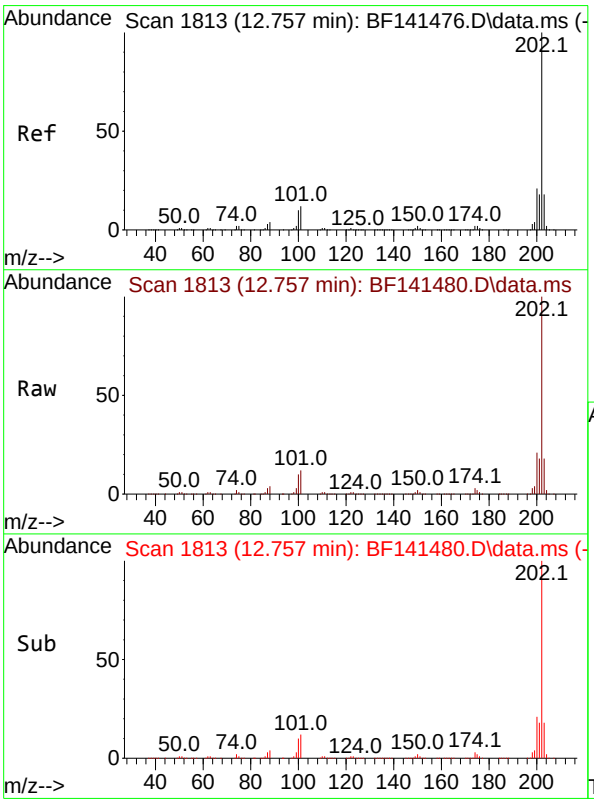
#77
Benzidine
Concen: 38.017 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:184 Resp: 211734

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	12.0	9.3	13.9

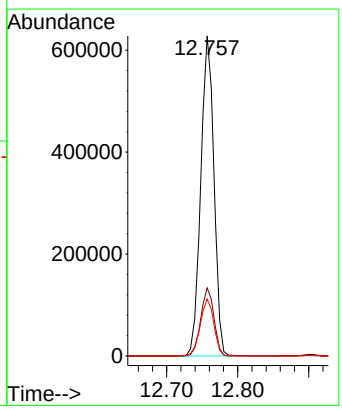


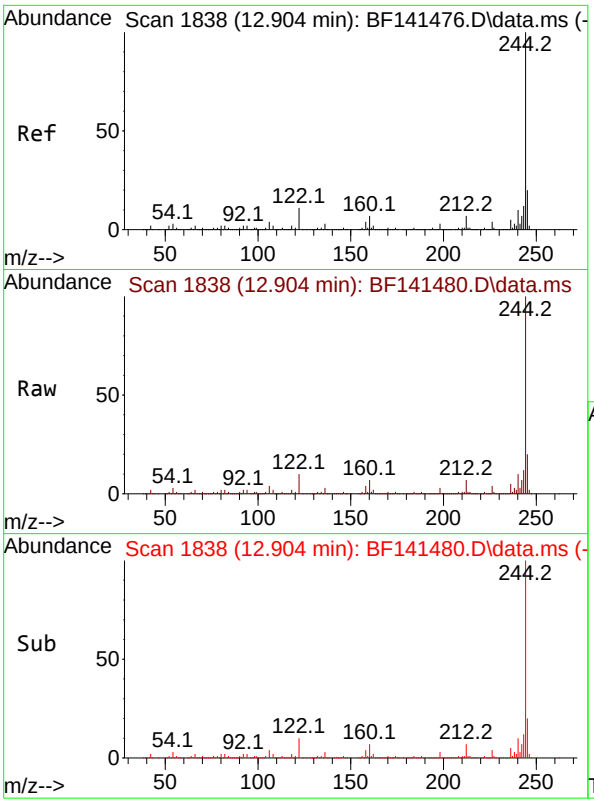


#78
Pyrene
Concen: 37.784 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:202 Resp: 812250

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.8	14.3	21.5



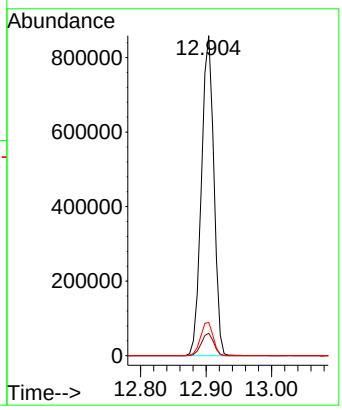


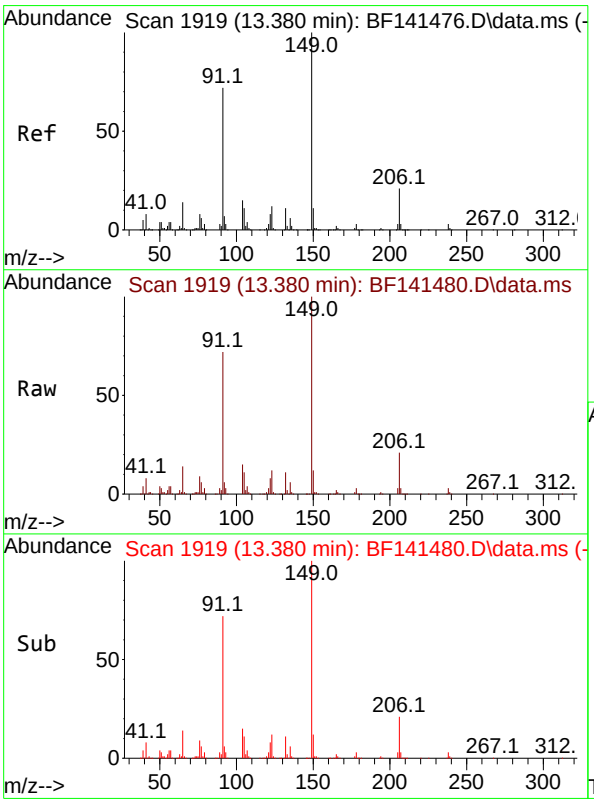
#79
Terphenyl-d14
Concen: 75.750 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:244 Resp: 1133126

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.4	8.4	12.6

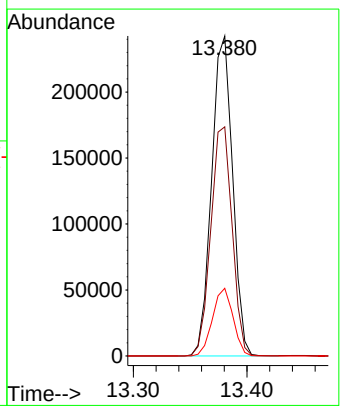


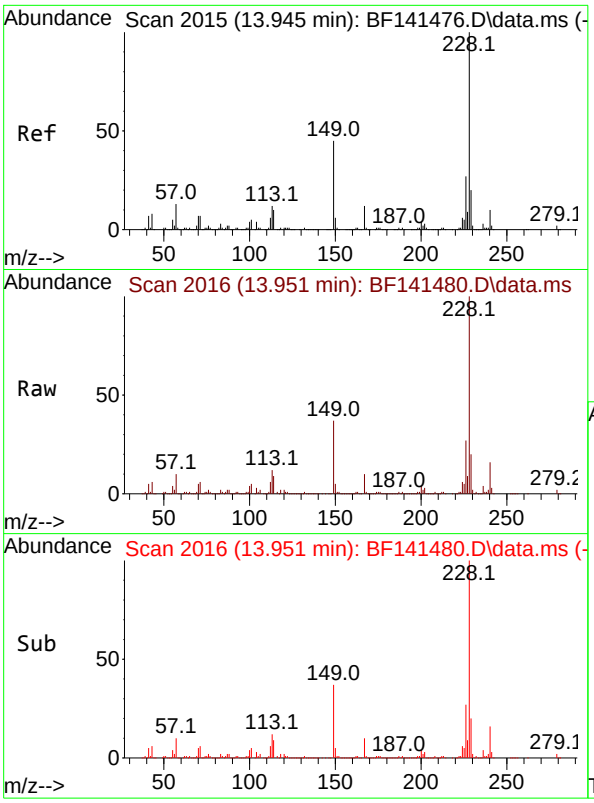


#80
Butylbenzylphthalate
Concen: 41.781 ng
RT: 13.380 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 311103

Ion	Ratio	Lower	Upper
149	100		
91	71.6	57.8	86.8
206	21.2	16.7	25.1



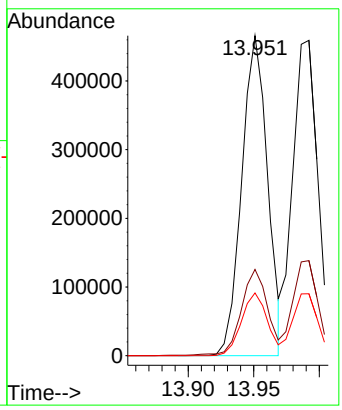


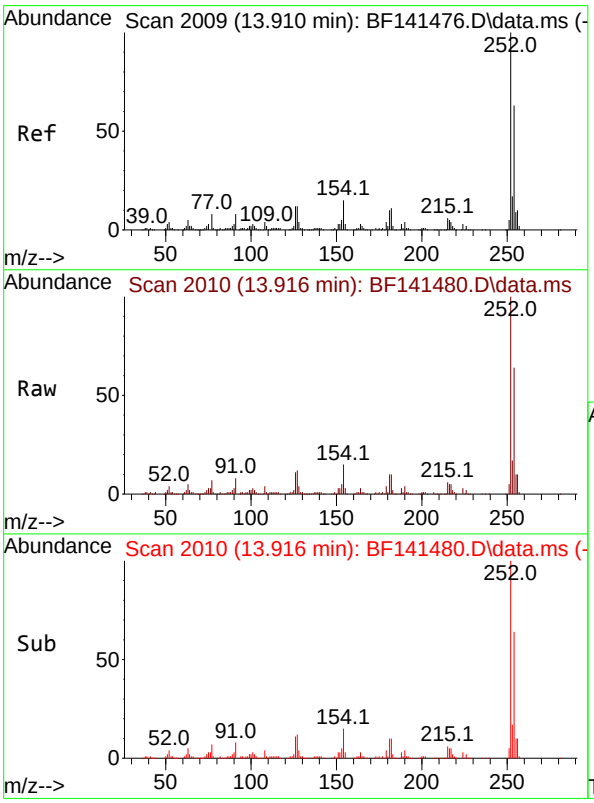
#81
Benzo(a)anthracene
Concen: 38.009 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:228 Resp: 638036

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.8	32.8
229	19.6	15.8	23.6

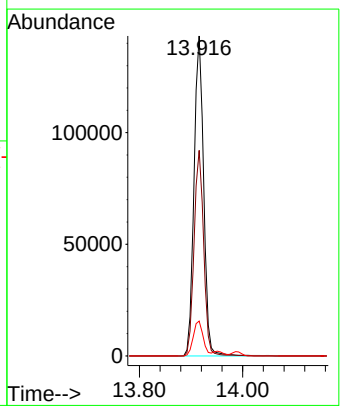


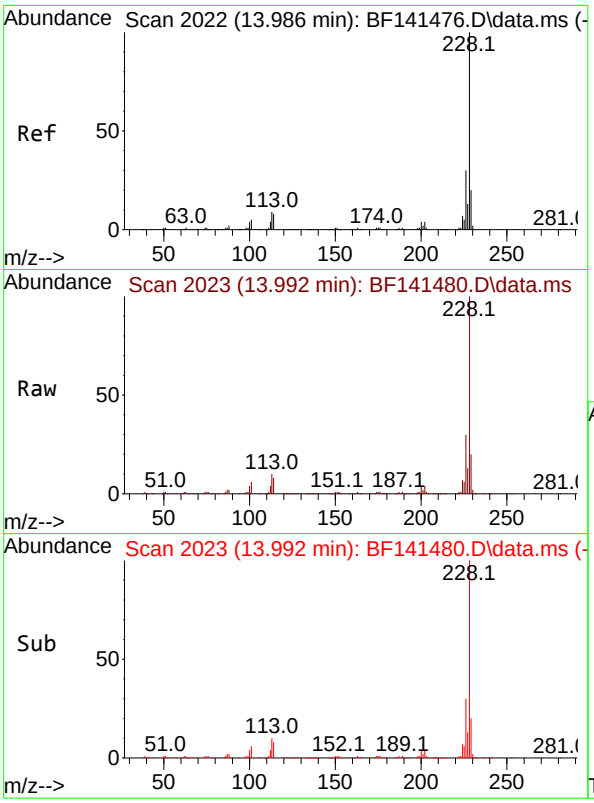


#82
3,3'-Dichlorobenzidine
Concen: 38.608 ng
RT: 13.916 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 185650

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.6	76.0
126	10.9	9.3	13.9



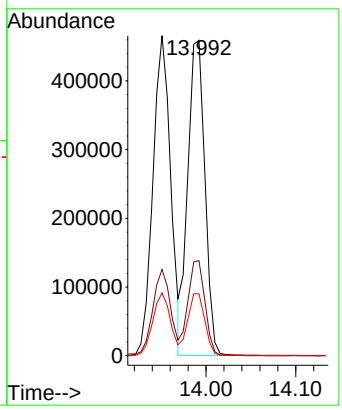


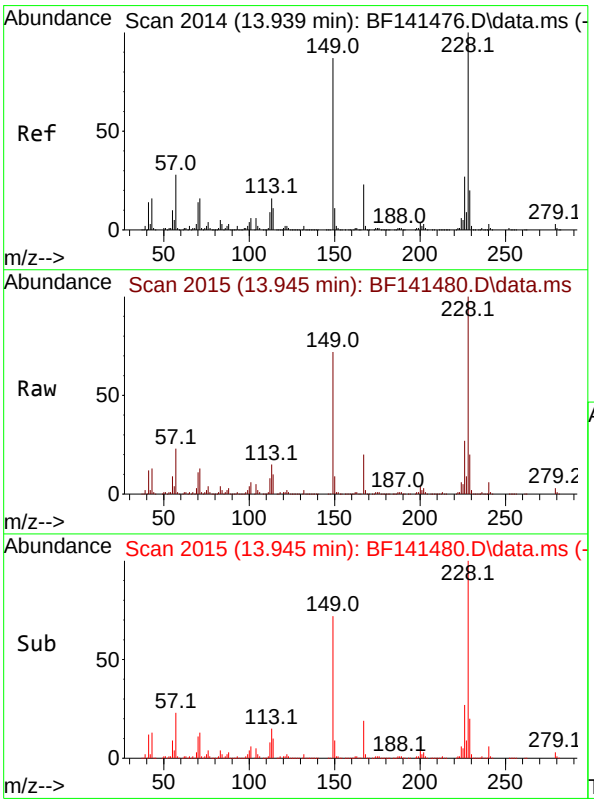
#83
Chrysene
Concen: 39.361 ng
RT: 13.992 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:228 Resp: 610091

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.6	15.7	23.5

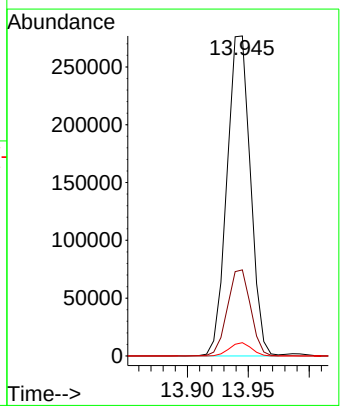


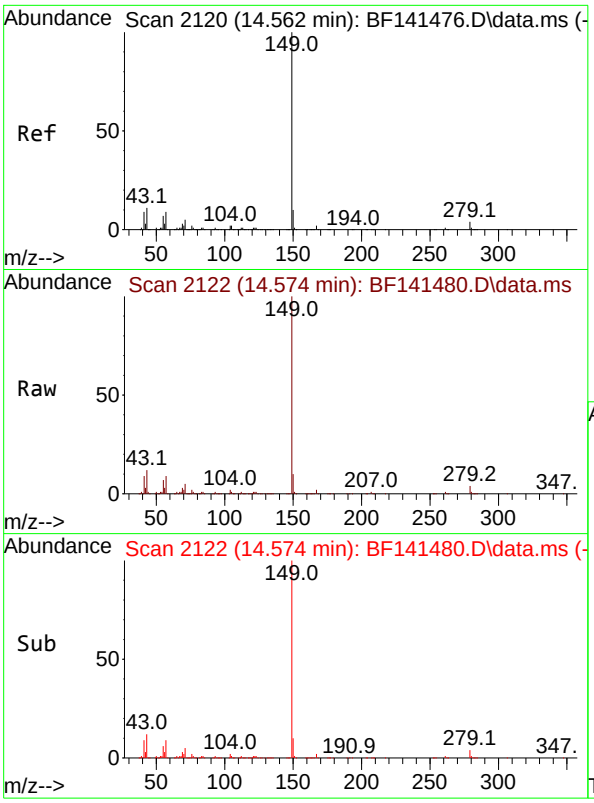


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.229 ng
RT: 13.945 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:149 Resp: 371434

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	4.1	3.1	4.7



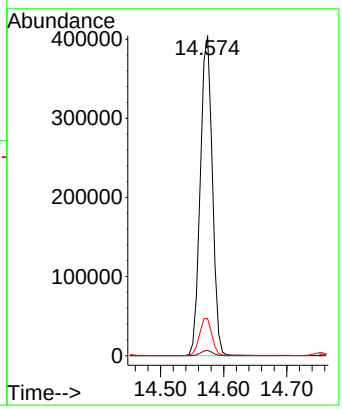


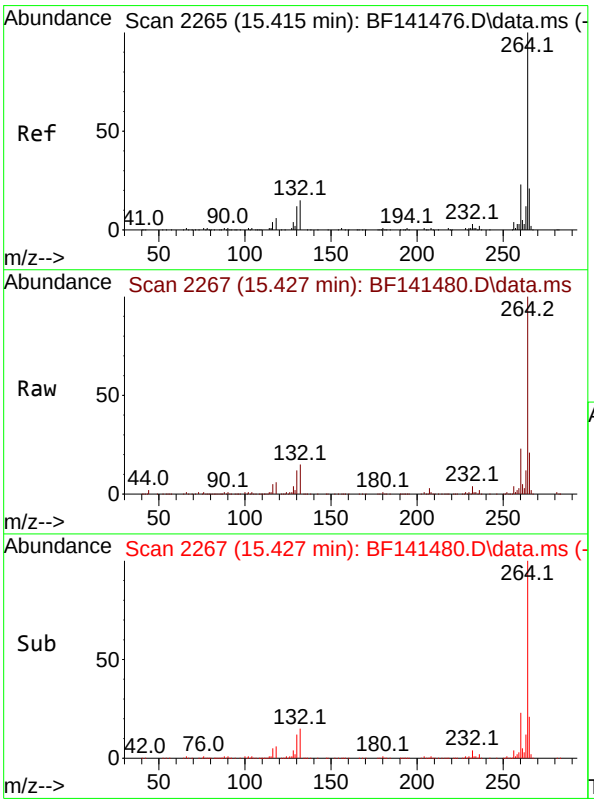
#85
Di-n-octyl phthalate
Concen: 44.652 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:149 Resp: 534947

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.5	14.3

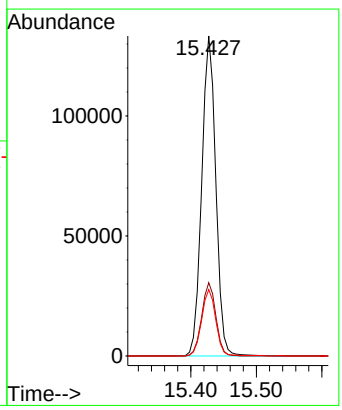


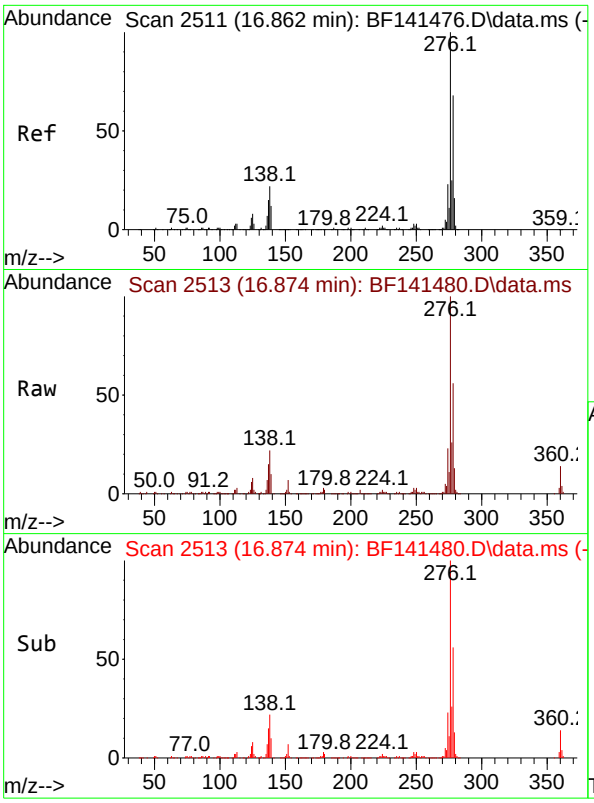


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. 0.012 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:264 Resp: 199389

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.6	28.0
265	20.8	17.0	25.4



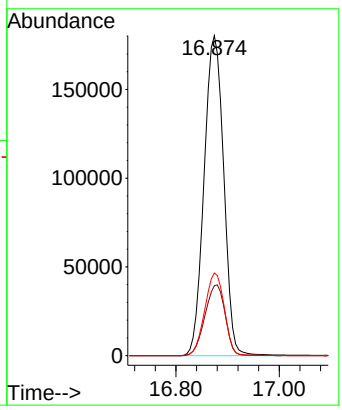


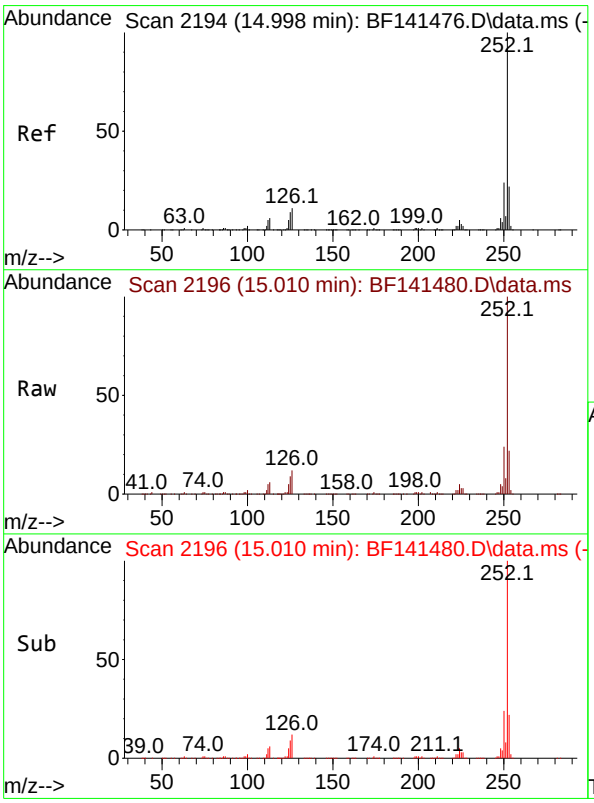
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.551 ng
RT: 16.874 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:276 Resp: 474949

Ion	Ratio	Lower	Upper
276	100		
138	22.8	18.0	27.0
277	25.8	20.4	30.6

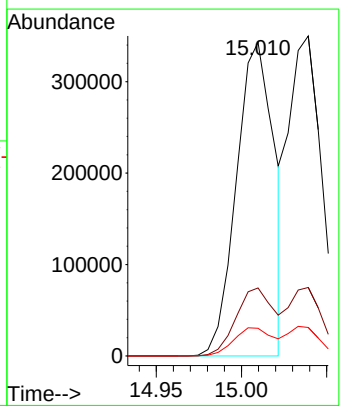


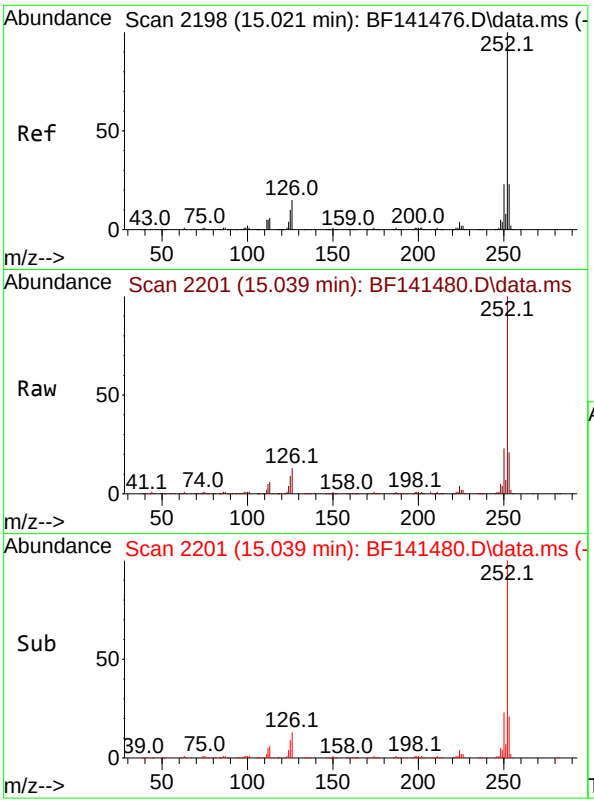


#88
Benzo(b)fluoranthene
Concen: 39.352 ng
RT: 15.010 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 526847

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.8	7.0	10.6



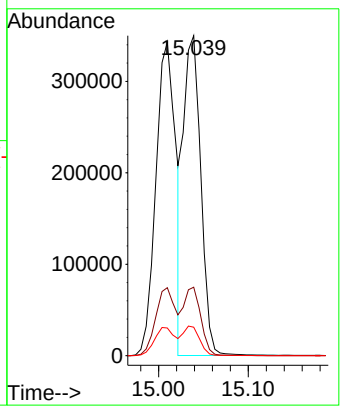


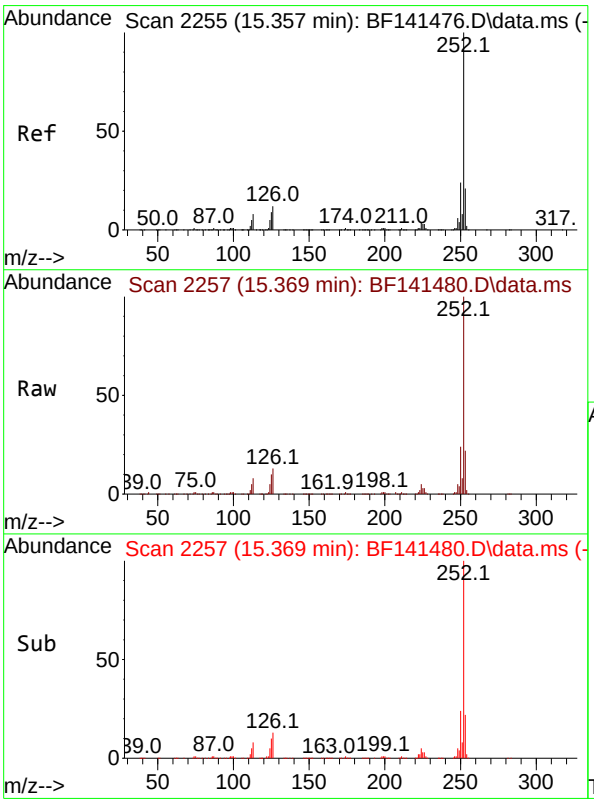
#89
Benzo(k)fluoranthene
Concen: 41.182 ng
RT: 15.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:252 Resp: 470794

Ion	Ratio	Lower	Upper
252	100		
253	21.4	18.0	27.0
125	8.9	7.4	11.0

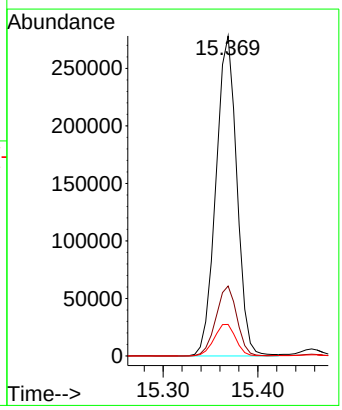


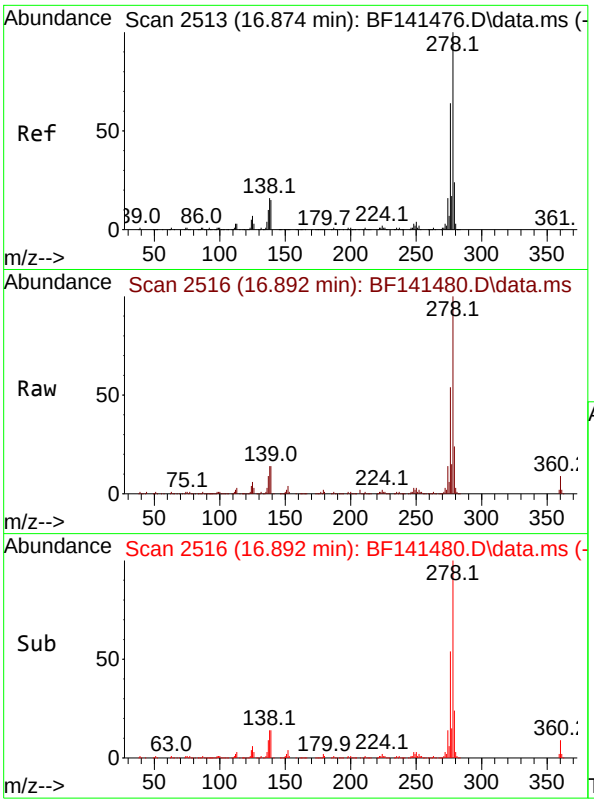


#90
Benzo(a)pyrene
Concen: 39.459 ng
RT: 15.369 min Scan# 2257
Delta R.T. 0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:252 Resp: 427462

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.1	25.7
125	9.9	7.4	11.2



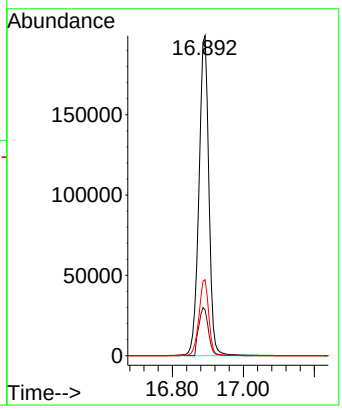


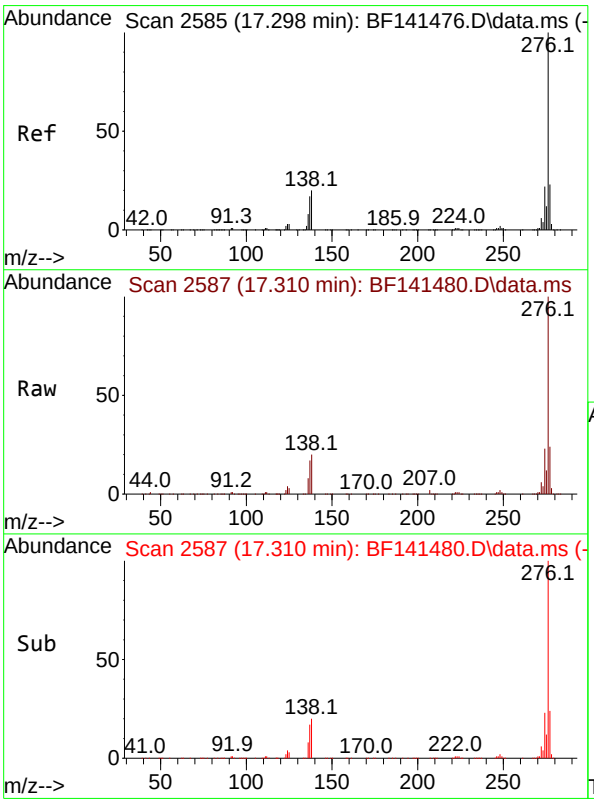
#91
Dibenzo(a,h)anthracene
Concen: 38.870 ng
RT: 16.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

Tgt Ion:278 Resp: 388028

Ion	Ratio	Lower	Upper
278	100		
139	14.3	11.8	17.6
279	23.7	19.1	28.7

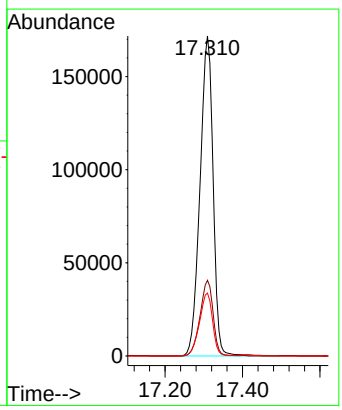




#92
Benzo(g,h,i)perylene
Concen: 38.536 ng
RT: 17.310 min Scan# 2587
Delta R.T. -0.006 min
Lab File: BF141480.D
Acq: 06 Feb 2025 15:03

Tgt Ion:276 Resp: 402566

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.6	28.0
138	19.7	15.9	23.9



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2		1,4-Dioxane	0.513	0.518	-1.0	101	0.00
3		Pyridine	1.222	1.281	-4.8	102	-0.01
4		n-Nitrosodimethylamine	0.809	0.842	-4.1	104	-0.03
5	S	2-Fluorophenol	1.276	1.306	-2.4	102	0.00
6		Aniline	1.513	1.582	-4.6	104	-0.01
7	S	Phenol-d6	1.612	1.630	-1.1	102	-0.01
8		2-Chlorophenol	1.378	1.397	-1.4	102	-0.01
9		Benzaldehyde	0.857	0.859	-0.2	106	0.00
10	C	Phenol	1.678	1.704	-1.5	102	-0.01
11		bis(2-Chloroethyl)ether	1.261	1.256	0.4	100	0.00
12		1,3-Dichlorobenzene	1.455	1.467	-0.8	103	0.00
13	C	1,4-Dichlorobenzene	1.487	1.484	0.2	102	0.00
14		1,2-Dichlorobenzene	1.380	1.392	-0.9	102	0.00
15		Benzyl Alcohol	1.236	1.269	-2.7	102	0.00
16		2,2'-oxybis(1-Chloropropane	2.158	2.187	-1.3	102	0.00
17		2-Methylphenol	1.079	1.099	-1.9	103	0.00
18		Hexachloroethane	0.550	0.565	-2.7	103	0.00
19	P	n-Nitroso-di-n-propylamine	0.964	0.966	-0.2	101	-0.01
20		3+4-Methylphenols	1.371	1.373	-0.1	101	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	103	0.00
22		Acetophenone	0.498	0.488	2.0	102	-0.01
23	S	Nitrobenzene-d5	0.383	0.376	1.8	101	0.00
24		Nitrobenzene	0.374	0.369	1.3	102	0.00
25		Isophorone	0.611	0.608	0.5	103	-0.01
26	C	2-Nitrophenol	0.186	0.188	-1.1	101	0.00
27		2,4-Dimethylphenol	0.217	0.217	0.0	100	0.00
28		bis(2-Chloroethoxy)methane	0.392	0.390	0.5	102	0.00
29	C	2,4-Dichlorophenol	0.294	0.292	0.7	102	0.00
30		1,2,4-Trichlorobenzene	0.320	0.314	1.9	102	0.00
31		Naphthalene	1.041	1.023	1.7	102	0.00
32		Benzoic acid	0.226	0.228	-0.9	102	-0.04
33		4-Chloroaniline	0.363	0.370	-1.9	105	-0.01
34	C	Hexachlorobutadiene	0.192	0.193	-0.5	103	0.00
35		Caprolactam	0.089	0.092	-3.4	102	-0.03
36	C	4-Chloro-3-methylphenol	0.325	0.325	0.0	102	0.00
37		2-Methylnaphthalene	0.677	0.656	3.1	101	0.00
38		1-Methylnaphthalene	0.656	0.641	2.3	101	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	0.579	0.581	-0.3	102	0.00
41	P	Hexachlorocyclopentadiene	0.192	0.186	3.1	94	0.00
42	S	2,4,6-Tribromophenol	0.201	0.200	0.5	102	0.00
43	C	2,4,6-Trichlorophenol	0.374	0.373	0.3	101	0.00
44		2,4,5-Trichlorophenol	0.405	0.406	-0.2	101	0.00
45	S	2-Fluorobiphenyl	1.298	1.278	1.5	103	0.00
46		1,1'-Biphenyl	1.551	1.532	1.2	102	0.00
47		2-Chloronaphthalene	1.147	1.131	1.4	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.385	0.389	-1.0	102	0.00
49		Acenaphthylene	1.705	1.694	0.6	102	0.00
50		Dimethylphthalate	1.358	1.340	1.3	102	-0.01
51		2,6-Dinitrotoluene	0.297	0.297	0.0	101	0.00
52	C	Acenaphthene	1.147	1.143	0.3	102	0.00
53		3-Nitroaniline	0.319	0.323	-1.3	104	0.00
54	P	2,4-Dinitrophenol	0.176	0.188	-6.8	109	-0.01
55		Dibenzofuran	1.683	1.677	0.4	103	0.00
56	P	4-Nitrophenol	0.237	0.250	-5.5	103	-0.01
57		2,4-Dinitrotoluene	0.395	0.401	-1.5	103	0.00
58		Fluorene	1.301	1.285	1.2	102	0.00
59		2,3,4,6-Tetrachlorophenol	0.349	0.353	-1.1	104	0.00
60		Diethylphthalate	1.336	1.318	1.3	101	0.00
61		4-Chlorophenyl-phenylether	0.626	0.615	1.8	101	0.00
62		4-Nitroaniline	0.324	0.333	-2.8	102	-0.02
63		Azobenzene	1.328	1.320	0.6	102	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	0.139	0.147	-5.8	104	-0.01
66	c	n-Nitrosodiphenylamine	0.640	0.641	-0.2	102	0.00
67		4-Bromophenyl-phenylether	0.224	0.228	-1.8	104	0.00
68		Hexachlorobenzene	0.230	0.231	-0.4	102	0.00
69		Atrazine	0.192	0.189	1.6	102	0.00
70	C	Pentachlorophenol	0.147	0.156	-6.1	102	0.00
71		Phenanthrene	1.101	1.104	-0.3	102	0.00
72		Anthracene	1.107	1.117	-0.9	103	0.00
73		Carbazole	0.996	1.002	-0.6	102	0.00
74		Di-n-butylphthalate	1.150	1.177	-2.3	103	0.00
75	C	Fluoranthene	1.167	1.197	-2.6	104	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	112	0.00
77		Benzidine	0.441	0.419	5.0	89	0.00
78		Pyrene	1.703	1.608	5.6	103	0.00
79	S	Terphenyl-d14	1.185	1.122	5.3	105	0.00
80		Butylbenzylphthalate	0.590	0.616	-4.4	113	0.00
81		Benzo(a)anthracene	1.329	1.263	5.0	105	0.00
82		3,3'-Dichlorobenzidine	0.381	0.368	3.4	109	0.00
83		Chrysene	1.228	1.208	1.6	113	0.00
84		Bis(2-ethylhexyl)phthalate	0.665	0.735	-10.5	120	0.00
85	c	Di-n-octyl phthalate	0.949	1.059	-11.6	123	0.01
86	I	Perylene-d12	1.000	1.000	0.0	109	0.01
87		Indeno(1,2,3-cd)pyrene	1.236	1.191	3.6	101	0.00
88		Benzo(b)fluoranthene	1.343	1.321	1.6	108	0.00
89		Benzo(k)fluoranthene	1.147	1.181	-3.0	113	0.00
90	C	Benzo(a)pyrene	1.087	1.072	1.4	108	0.00
91		Dibenzo(a,h)anthracene	1.001	0.973	2.8	101	0.00
92		Benzo(g,h,i)perylene	1.048	1.009	3.7	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	101	0.00
2		1,4-Dioxane	40.000	40.369	-0.9	101	0.00
3		Pyridine	40.000	41.938	-4.8	102	-0.01
4		n-Nitrosodimethylamine	40.000	41.653	-4.1	104	-0.03
5	S	2-Fluorophenol	80.000	81.894	-2.4	102	0.00
6		Aniline	40.000	41.834	-4.6	104	-0.01
7	S	Phenol-d6	80.000	80.878	-1.1	102	-0.01
8		2-Chlorophenol	40.000	40.527	-1.3	102	-0.01
9		Benzaldehyde	40.000	40.105	-0.3	106	0.00
10	C	Phenol	40.000	40.615	-1.5	102	-0.01
11		bis(2-Chloroethyl)ether	40.000	39.866	0.3	100	0.00
12		1,3-Dichlorobenzene	40.000	40.317	-0.8	103	0.00
13	C	1,4-Dichlorobenzene	40.000	39.911	0.2	102	0.00
14		1,2-Dichlorobenzene	40.000	40.354	-0.9	102	0.00
15		Benzyl Alcohol	40.000	41.041	-2.6	102	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.535	-1.3	102	0.00
17		2-Methylphenol	40.000	40.768	-1.9	103	0.00
18		Hexachloroethane	40.000	41.061	-2.7	103	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.048	-0.1	101	-0.01
20		3+4-Methylphenols	40.000	40.073	-0.2	101	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	103	0.00
22		Acetophenone	40.000	39.246	1.9	102	-0.01
23	S	Nitrobenzene-d5	80.000	78.369	2.0	101	0.00
24		Nitrobenzene	40.000	39.429	1.4	102	0.00
25		Isophorone	40.000	39.767	0.6	103	-0.01
26	C	2-Nitrophenol	40.000	40.413	-1.0	101	0.00
27		2,4-Dimethylphenol	40.000	39.924	0.2	100	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.822	0.4	102	0.00
29	C	2,4-Dichlorophenol	40.000	39.818	0.5	102	0.00
30		1,2,4-Trichlorobenzene	40.000	39.237	1.9	102	0.00
31		Naphthalene	40.000	39.287	1.8	102	0.00
32		Benzoic acid	40.000	40.324	-0.8	102	-0.04
33		4-Chloroaniline	40.000	40.680	-1.7	105	-0.01
34	C	Hexachlorobutadiene	40.000	40.144	-0.4	103	0.00
35		Caprolactam	40.000	41.104	-2.8	102	-0.03
36	C	4-Chloro-3-methylphenol	40.000	40.006	-0.0	102	0.00
37		2-Methylnaphthalene	40.000	38.710	3.2	101	0.00
38		1-Methylnaphthalene	40.000	39.049	2.4	101	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	102	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.182	-0.5	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.754	3.1	94	0.00
42	S	2,4,6-Tribromophenol	80.000	79.490	0.6	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.914	0.2	101	0.00
44		2,4,5-Trichlorophenol	40.000	40.108	-0.3	101	0.00
45	S	2-Fluorobiphenyl	80.000	78.786	1.5	103	0.00
46		1,1'-Biphenyl	40.000	39.519	1.2	102	0.00
47		2-Chloronaphthalene	40.000	39.453	1.4	102	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.451	-1.1	102	0.00
49		Acenaphthylene	40.000	39.734	0.7	102	0.00
50		Dimethylphthalate	40.000	39.488	1.3	102	-0.01
51		2,6-Dinitrotoluene	40.000	39.965	0.1	101	0.00
52	C	Acenaphthene	40.000	39.893	0.3	102	0.00
53		3-Nitroaniline	40.000	40.463	-1.2	104	0.00
54	P	2,4-Dinitrophenol	40.000	42.639	-6.6	109	-0.01
55		Dibenzofuran	40.000	39.860	0.4	103	0.00
56	P	4-Nitrophenol	40.000	42.166	-5.4	103	-0.01
57		2,4-Dinitrotoluene	40.000	40.633	-1.6	103	0.00
58		Fluorene	40.000	39.501	1.2	102	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.438	-1.1	104	0.00
60		Diethylphthalate	40.000	39.467	1.3	101	0.00
61		4-Chlorophenyl-phenylether	40.000	39.318	1.7	101	0.00
62		4-Nitroaniline	40.000	41.124	-2.8	102	-0.02
63		Azobenzene	40.000	39.759	0.6	102	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	100	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.230	-5.6	104	-0.01
66	c	n-Nitrosodiphenylamine	40.000	40.040	-0.1	102	0.00
67		4-Bromophenyl-phenylether	40.000	40.864	-2.2	104	0.00
68		Hexachlorobenzene	40.000	40.208	-0.5	102	0.00
69		Atrazine	40.000	39.358	1.6	102	0.00
70	C	Pentachlorophenol	40.000	42.476	-6.2	102	0.00
71		Phenanthrene	40.000	40.114	-0.3	102	0.00
72		Anthracene	40.000	40.362	-0.9	103	0.00
73		Carbazole	40.000	40.267	-0.7	102	0.00
74		Di-n-butylphthalate	40.000	40.953	-2.4	103	0.00
75	C	Fluoranthene	40.000	41.011	-2.5	104	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	112	0.00
77		Benzidine	40.000	38.017	5.0	89	0.00
78		Pyrene	40.000	37.784	5.5	103	0.00
79	S	Terphenyl-d14	80.000	75.750	5.3	105	0.00
80		Butylbenzylphthalate	40.000	41.781	-4.5	113	0.00
81		Benzo(a)anthracene	40.000	38.009	5.0	105	0.00
82		3,3'-Dichlorobenzidine	40.000	38.608	3.5	109	0.00
83		Chrysene	40.000	39.361	1.6	113	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.229	-10.6	120	0.00
85	c	Di-n-octyl phthalate	40.000	44.652	-11.6	123	0.01
86	I	Perylene-d12	20.000	20.000	0.0	109	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.551	3.6	101	0.00
88		Benzo(b)fluoranthene	40.000	39.352	1.6	108	0.00
89		Benzo(k)fluoranthene	40.000	41.182	-3.0	113	0.00
90	C	Benzo(a)pyrene	40.000	39.459	1.4	108	0.00
91		Dibenzo(a,h)anthracene	40.000	38.870	2.8	101	0.00
92		Benzo(g,h,i)perylene	40.000	38.536	3.7	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141480.D
Acq On : 06 Feb 2025 15:03
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF020625

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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = 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: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG No.: Q1352

Instrument ID: BNA_F Calibration Date/Time: 02/14/2025 09:45

Lab File ID: BF141628.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.222	1.171		-4.2	
2-Fluorophenol	1.276	1.279		0.2	
Phenol-d6	1.612	1.573		-2.4	
1,4-Dichlorobenzene	1.487	1.488		0.1	20.0
2-Methylphenol	1.079	1.058		-1.9	
3+4-Methylphenols	1.371	1.341		-2.2	
Nitrobenzene-d5	0.383	0.368		-3.9	
Hexachloroethane	0.550	0.557		1.3	
Nitrobenzene	0.374	0.362		-3.2	
Hexachlorobutadiene	0.192	0.192		0.0	20.0
2,4,6-Trichlorophenol	0.374	0.370		-1.1	20.0
2-Fluorobiphenyl	1.298	1.280		-1.4	
2,4,5-Trichlorophenol	0.405	0.398		-1.7	
2,4-Dinitrotoluene	0.395	0.392		-0.8	
2,4,6-Tribromophenol	0.201	0.199		-1.0	
Hexachlorobenzene	0.230	0.233		1.3	
Pentachlorophenol	0.147	0.134		-8.8	20.0
Terphenyl-d14	1.185	1.238		4.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	103235	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	408887	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	222735	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	379641	20.000	ng		0.00
76) Chrysene-d12	13.957	240	232432	20.000	ng		0.00
86) Perylene-d12	15.415	264	185535	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	528012	80.185	ng		0.00
7) Phenol-d6	6.434	99	649590	78.049	ng		0.00
23) Nitrobenzene-d5	7.357	82	601209	76.691	ng		0.00
42) 2,4,6-Tribromophenol	10.616	330	176996	79.105	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1140335	78.876	ng		0.00
79) Terphenyl-d14	12.898	244	1151308	83.620	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.475	88	104365	39.379	ng		98
3) Pyridine	3.204	79	241794	38.339	ng		95
4) n-Nitrosodimethylamine	3.163	42	154204	36.927	ng		93
6) Aniline	6.457	93	240806	30.844	ng		94
8) 2-Chlorophenol	6.581	128	284940	40.046	ng		99
9) Benzaldehyde	6.339	77	215729	48.777	ng		99
10) Phenol	6.445	94	334933	38.665	ng		90
11) bis(2-Chloroethyl)ether	6.528	93	259097	39.822	ng		100
12) 1,3-Dichlorobenzene	6.728	146	303563	40.412	ng		97
13) 1,4-Dichlorobenzene	6.804	146	307205	40.027	ng		99
14) 1,2-Dichlorobenzene	6.957	146	286789	40.261	ng		99
15) Benzyl Alcohol	6.934	79	240949	37.752	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	418656	37.589	ng		68
17) 2-Methylphenol	7.051	107	218529	39.246	ng		98
18) Hexachloroethane	7.298	117	114908	40.455	ng		97
19) n-Nitroso-di-n-propyla...	7.204	70	195301	39.230	ng		96
20) 3+4-Methylphenols	7.204	107	276797	39.116	ng		99
22) Acetophenone	7.198	105	395306	38.865	ng	#	95
24) Nitrobenzene	7.375	77	296352	38.767	ng		98
25) Isophorone	7.610	82	488521	39.083	ng		99
26) 2-Nitrophenol	7.686	139	153320	40.313	ng		97
27) 2,4-Dimethylphenol	7.734	122	178748	40.232	ng		98
28) bis(2-Chloroethoxy)met...	7.822	93	320824	40.055	ng		100
29) 2,4-Dichlorophenol	7.939	162	245043	40.820	ng		98
30) 1,2,4-Trichlorobenzene	8.010	180	259227	39.654	ng		99
31) Naphthalene	8.092	128	837949	39.370	ng		100
32) Benzoic acid	7.869	122	162909	35.300	ng		98
33) 4-Chloroaniline	8.145	127	257469	34.648	ng		100
34) Hexachlorobutadiene	8.204	225	157090	40.028	ng		98
35) Caprolactam	8.522	113	72867	39.867	ng		93
36) 4-Chloro-3-methylphenol	8.633	107	260038	39.105	ng		100
37) 2-Methylnaphthalene	8.780	142	547697	39.544	ng		99
38) 1-Methylnaphthalene	8.880	142	526093	39.219	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	259636	40.291	ng		99
41) Hexachlorocyclopentadiene	8.933	237	75729	35.332	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	164866	39.585	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

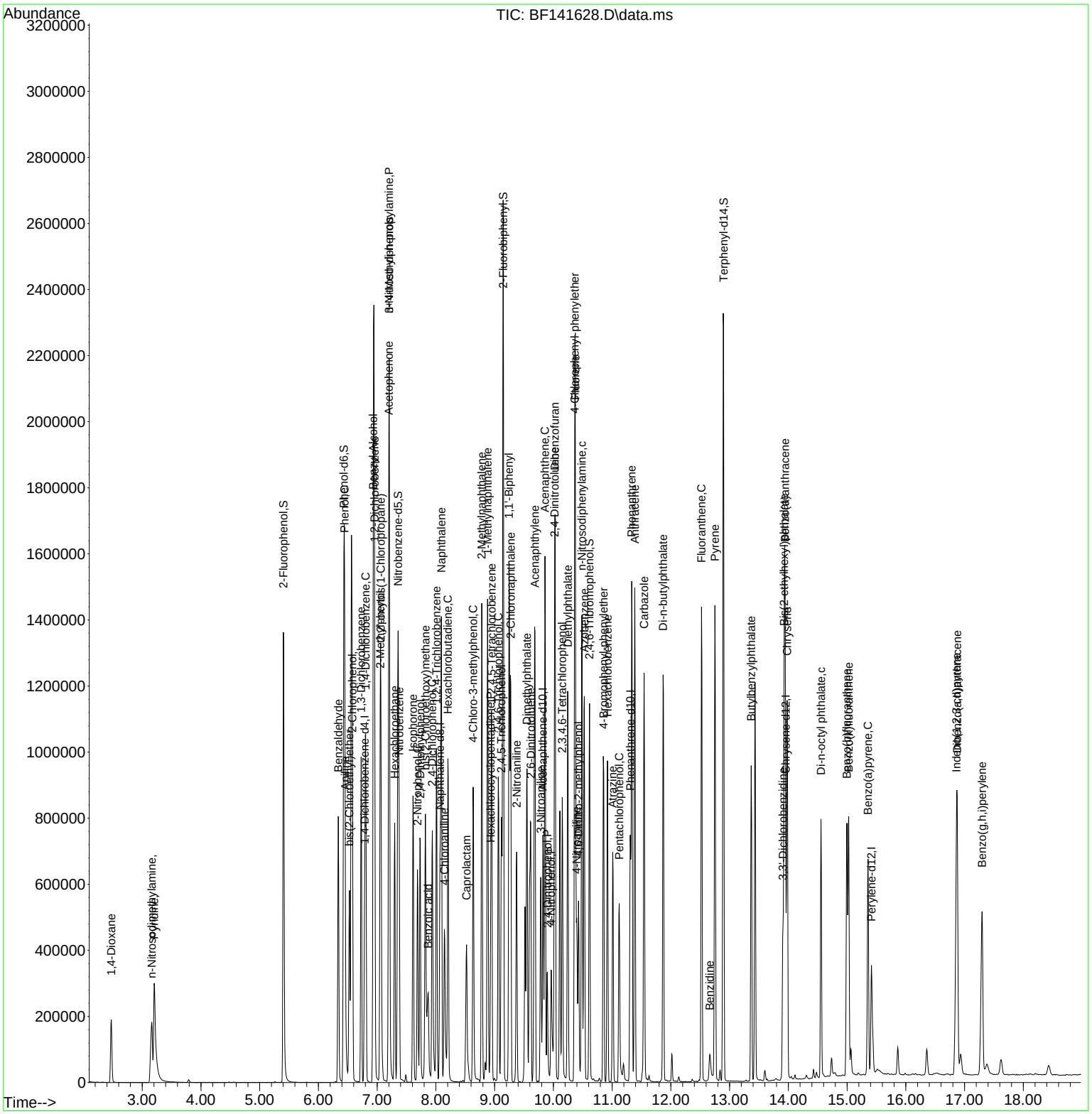
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	177394	39.301	ng	98
46) 1,1'-Biphenyl	9.245	154	689968	39.956	ng	100
47) 2-Chloronaphthalene	9.275	162	505227	39.566	ng	99
48) 2-Nitroaniline	9.375	65	163788	38.220	ng	95
49) Acenaphthylene	9.686	152	740665	38.997	ng	100
50) Dimethylphthalate	9.551	163	605202	40.024	ng	99
51) 2,6-Dinitrotoluene	9.616	165	132084	39.958	ng	96
52) Acenaphthene	9.857	154	492013	38.533	ng	99
53) 3-Nitroaniline	9.786	138	135841	38.182	ng	98
54) 2,4-Dinitrophenol	9.898	184	74012	37.673	ng	90
55) Dibenzofuran	10.027	168	738708	39.414	ng	100
56) 4-Nitrophenol	9.963	139	90604	34.306	ng	92
57) 2,4-Dinitrotoluene	10.022	165	174433	39.640	ng	99
58) Fluorene	10.374	166	568578	39.235	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	151230	38.916	ng	98
60) Diethylphthalate	10.245	149	598567	40.234	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	279478	40.088	ng	100
62) 4-Nitroaniline	10.398	138	123326	34.138	ng	98
63) Azobenzene	10.527	77	586409	39.649	ng	96
65) 4,6-Dinitro-2-methylph...	10.427	198	104117	39.480	ng	96
66) n-Nitrosodiphenylamine	10.486	169	489614	40.289	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	175921	41.462	ng	98
68) Hexachlorobenzene	10.922	284	177235	40.565	ng	100
69) Atrazine	11.010	200	118764	32.575	ng	100
70) Pentachlorophenol	11.122	266	101520	36.339	ng	98
71) Phenanthrene	11.333	178	822531	39.360	ng	100
72) Anthracene	11.386	178	818329	38.955	ng	100
73) Carbazole	11.545	167	721508	38.171	ng	99
74) Di-n-butylphthalate	11.869	149	892760	40.904	ng	100
75) Fluoranthene	12.521	202	844082	38.098	ng	100
77) Benzidine	12.663	184	78319	15.278	ng	99
78) Pyrene	12.751	202	842862	42.598	ng	100
80) Butylbenzylphthalate	13.368	149	302575	44.150	ng	99
81) Benzo(a)anthracene	13.945	228	609957	39.478	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	153111	34.594	ng	98
83) Chrysene	13.980	228	557596	39.085	ng	100
84) Bis(2-ethylhexyl)phtha...	13.927	149	355788	46.030	ng	100
85) Di-n-octyl phthalate	14.557	149	497916	45.155	ng	99
87) Indeno(1,2,3-cd)pyrene	16.862	276	534795	46.650	ng	100
88) Benzo(b)fluoranthene	14.998	252	467218	37.504	ng	99
89) Benzo(k)fluoranthene	15.027	252	443427	41.684	ng	98
90) Benzo(a)pyrene	15.357	252	404529	40.130	ng	99
91) Dibenzo(a,h)anthracene	16.874	278	433742	46.693	ng	99
92) Benzo(g,h,i)perylene	17.298	276	460371	47.360	ng	99

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

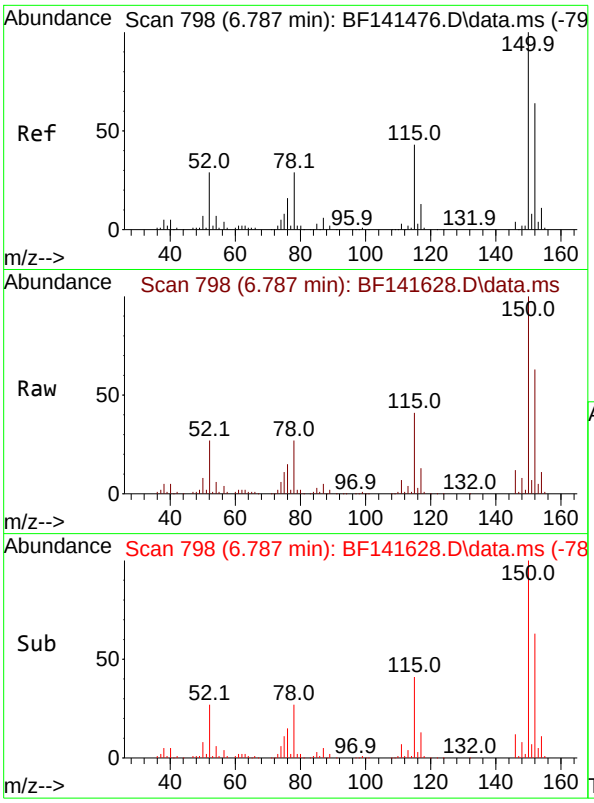
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



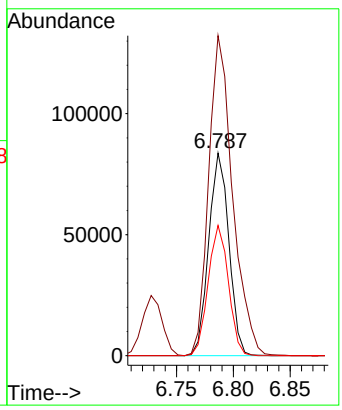
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

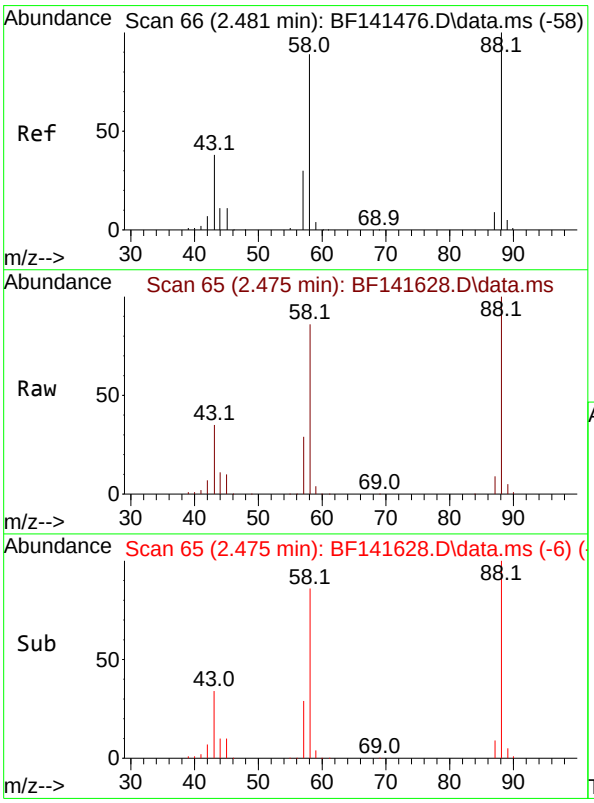


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:152 Resp: 103235

Ion	Ratio	Lower	Upper
152	100		
150	158.0	125.0	187.4
115	64.3	53.6	80.4

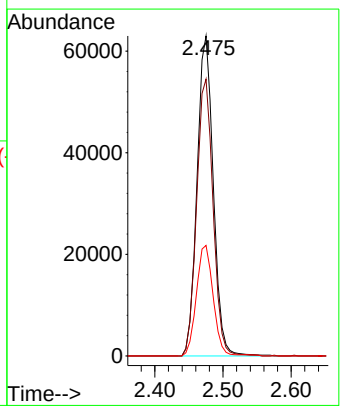


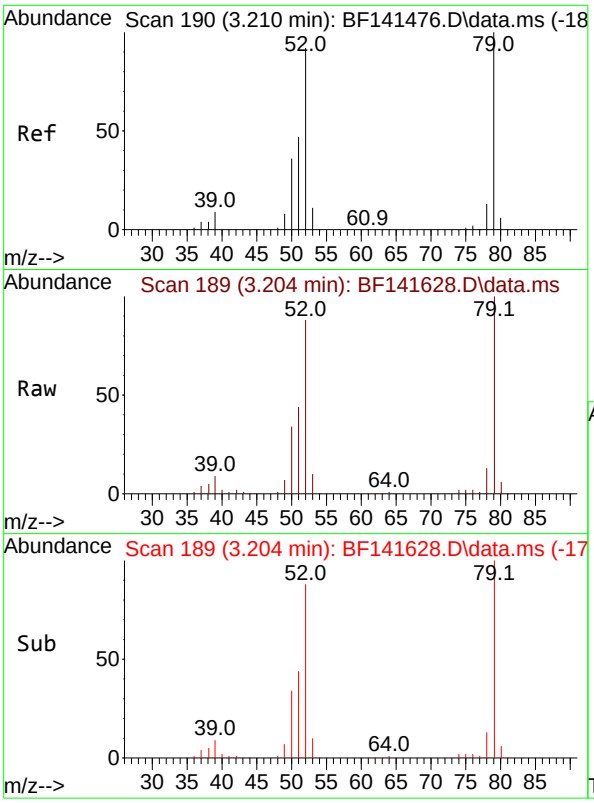


#2
1,4-Dioxane
Concen: 39.379 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 88 Resp: 104365

Ion	Ratio	Lower	Upper
88	100		
58	87.4	71.1	106.7
43	35.8	30.6	46.0



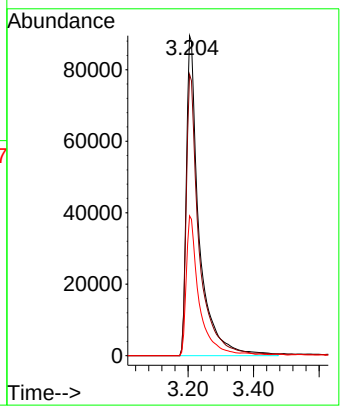


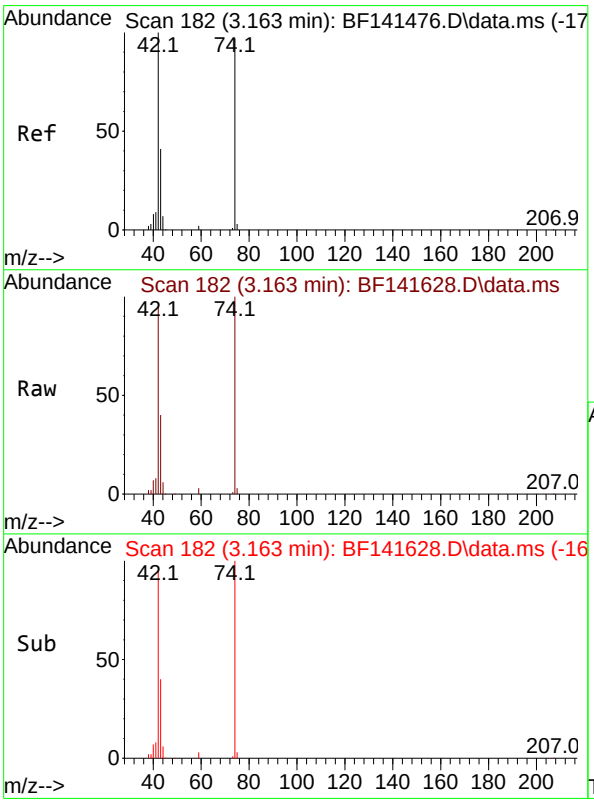
#3
Pyridine
Concen: 38.339 ng
RT: 3.204 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 241794

Ion	Ratio	Lower	Upper
79	100		
52	87.9	73.7	110.5
51	43.7	37.5	56.3

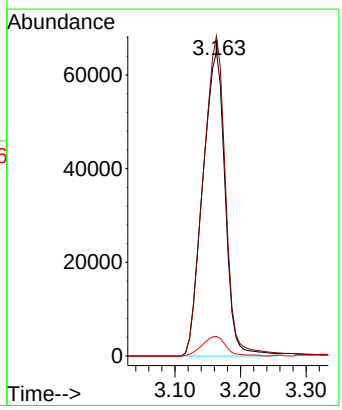


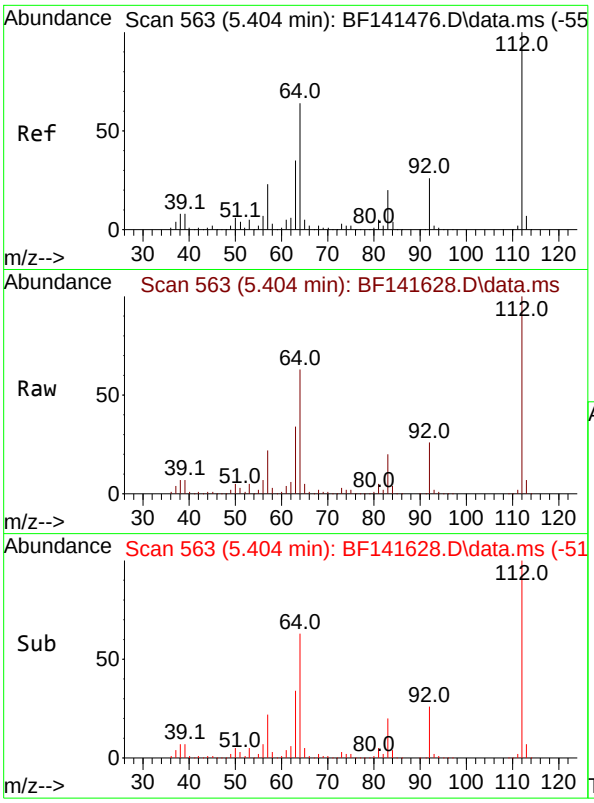


#4
n-Nitrosodimethylamine
Concen: 36.927 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.023 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 42 Resp: 154204

Ion	Ratio	Lower	Upper
42	100		
74	105.3	78.0	117.0
44	6.4	5.4	8.2



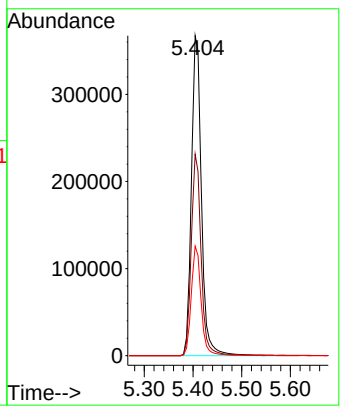


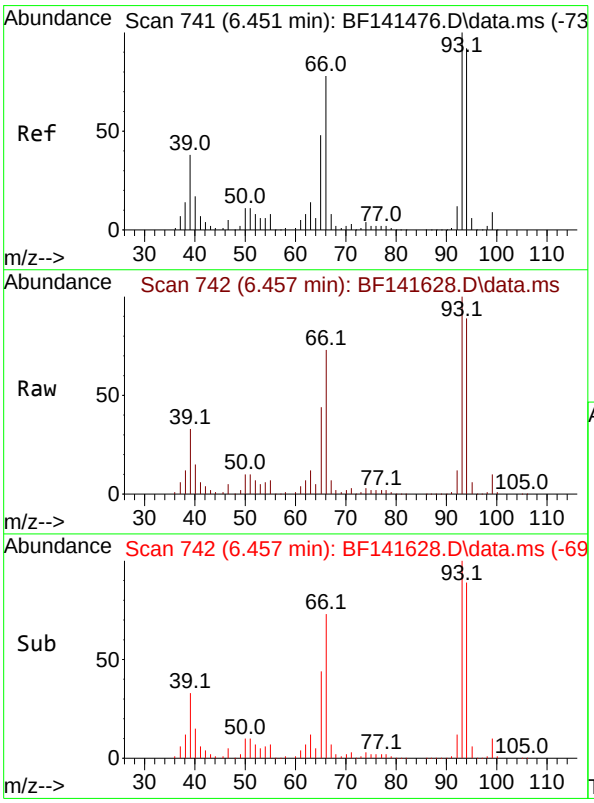
#5
2-Fluorophenol
Concen: 80.185 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 528012

Ion	Ratio	Lower	Upper
112	100		
64	63.0	51.1	76.7
63	34.3	28.4	42.6

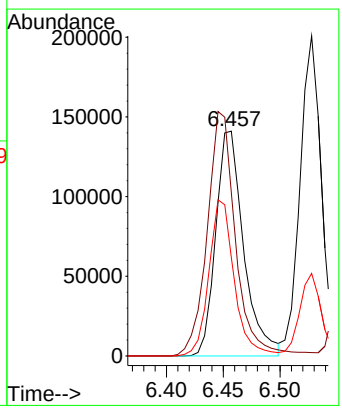


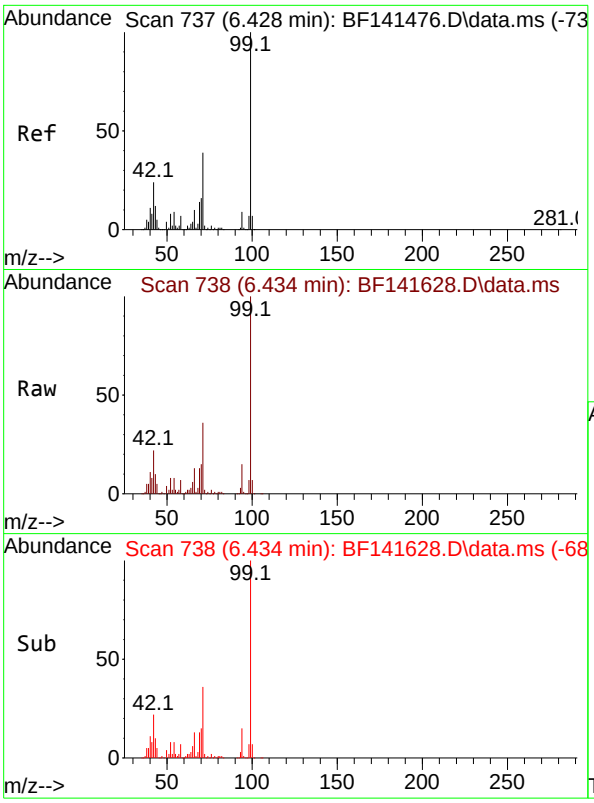


#6
Aniline
Concen: 30.844 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 93 Resp: 240806

Ion	Ratio	Lower	Upper
93	100		
66	72.8	62.6	94.0
65	43.9	38.3	57.5



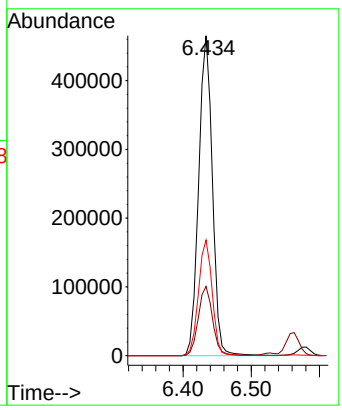


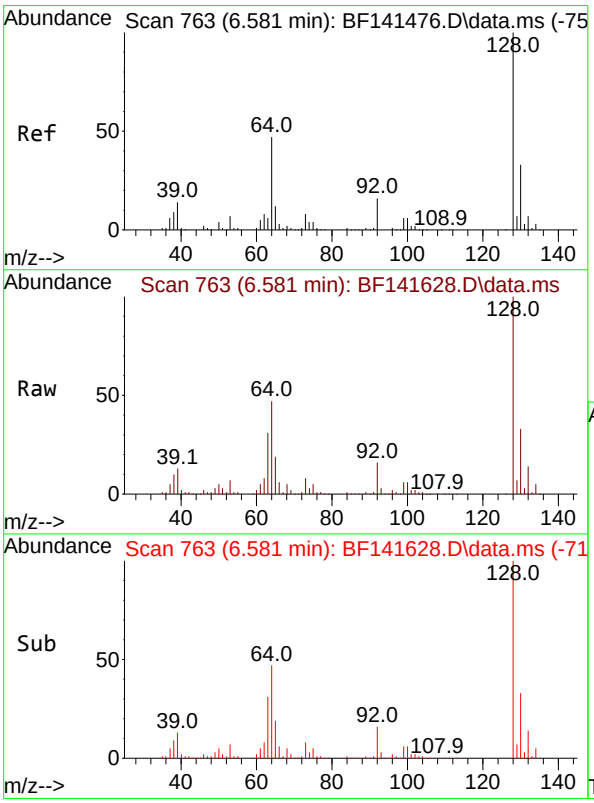
#7
Phenol-d6
Concen: 78.049 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 649590

Ion	Ratio	Lower	Upper
99	100		
42	21.7	19.1	28.7
71	36.2	31.1	46.7

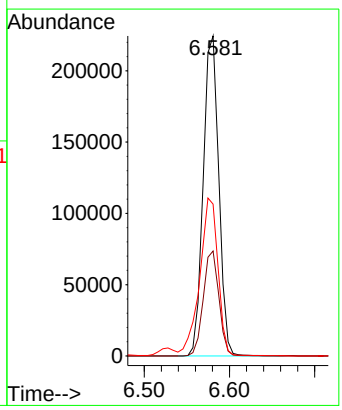


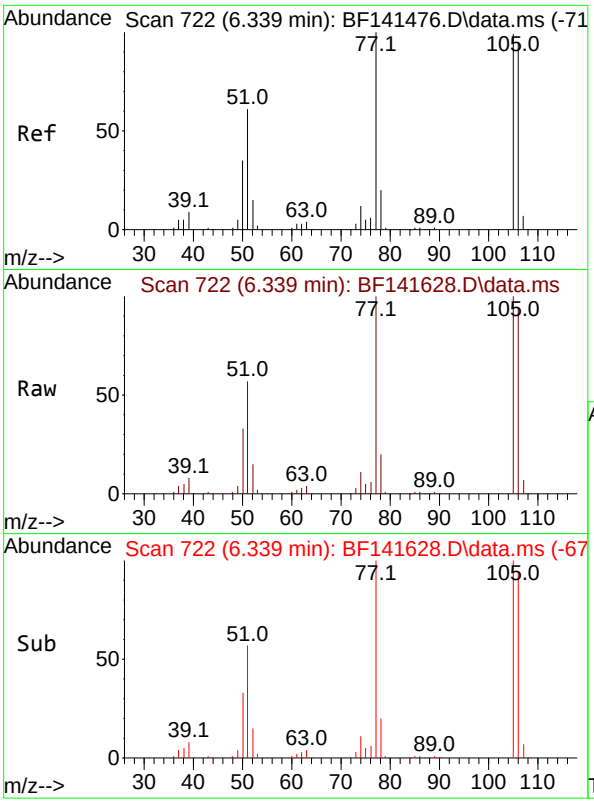


#8
2-Chlorophenol
Concen: 40.046 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:128 Resp: 284940

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.7	52.7
64	47.5	28.3	68.3



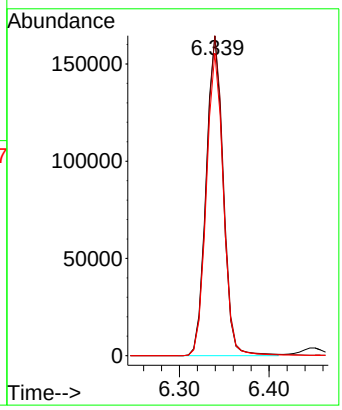


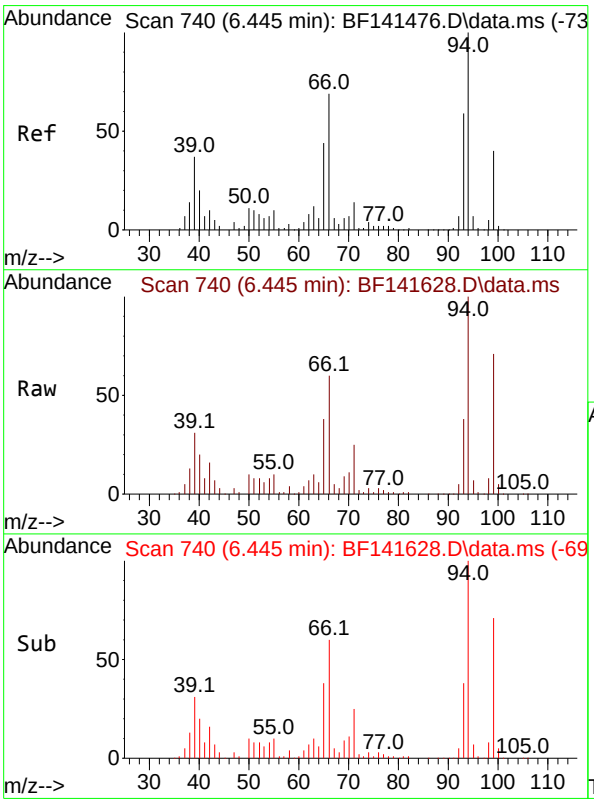
#9
Benzaldehyde
Concen: 48.777 ng
RT: 6.339 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 215729

Ion	Ratio	Lower	Upper
77	100		
105	100.1	79.4	119.4
106	94.6	75.1	115.1

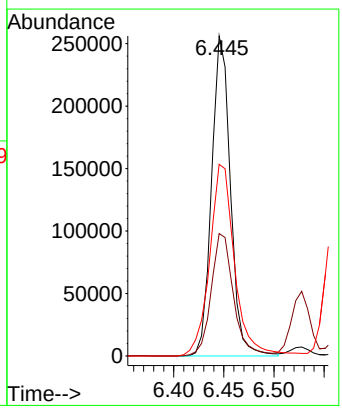


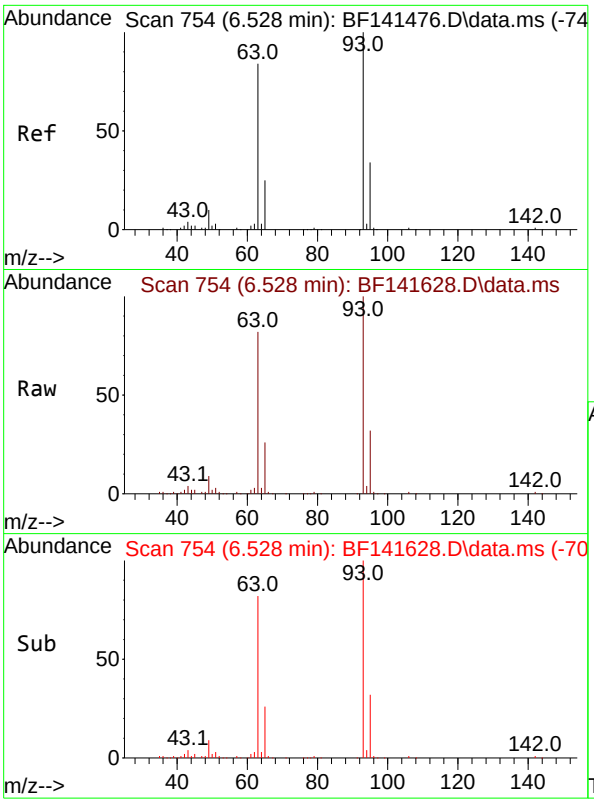


#10
Phenol
Concen: 38.665 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 94 Resp: 334933

Ion	Ratio	Lower	Upper
94	100		
65	38.2	23.7	63.7
66	59.9	49.3	89.3



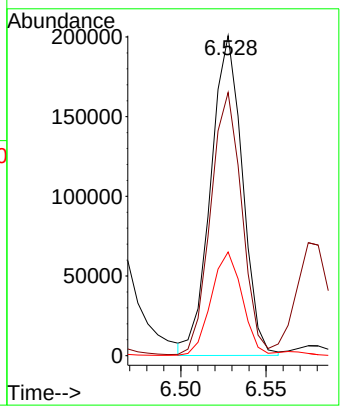


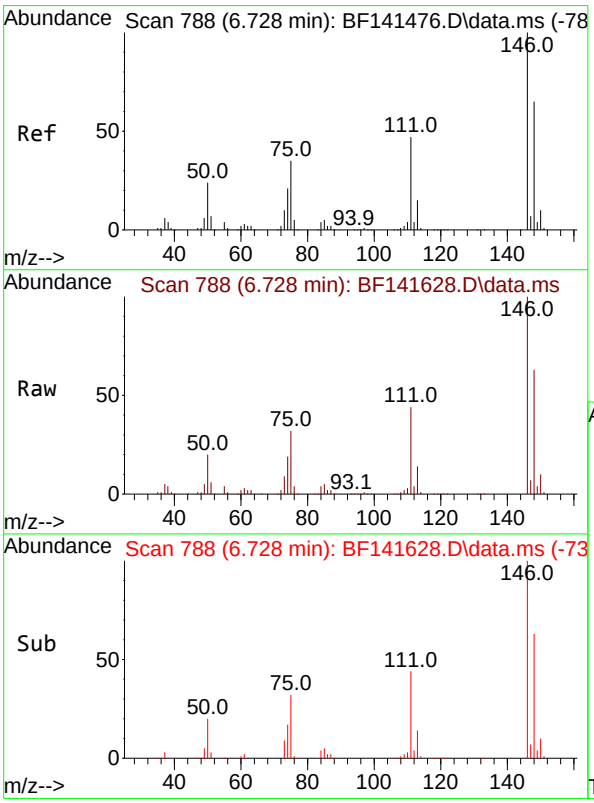
#11
bis(2-Chloroethyl)ether
Concen: 39.822 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 259097

Ion	Ratio	Lower	Upper
93	100		
63	82.2	62.0	102.0
95	32.4	12.6	52.6

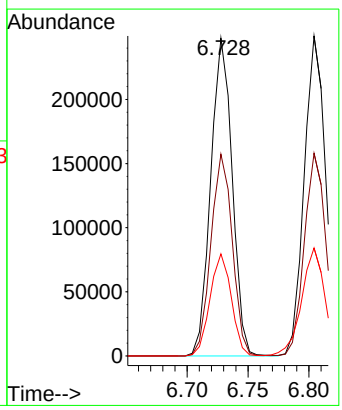


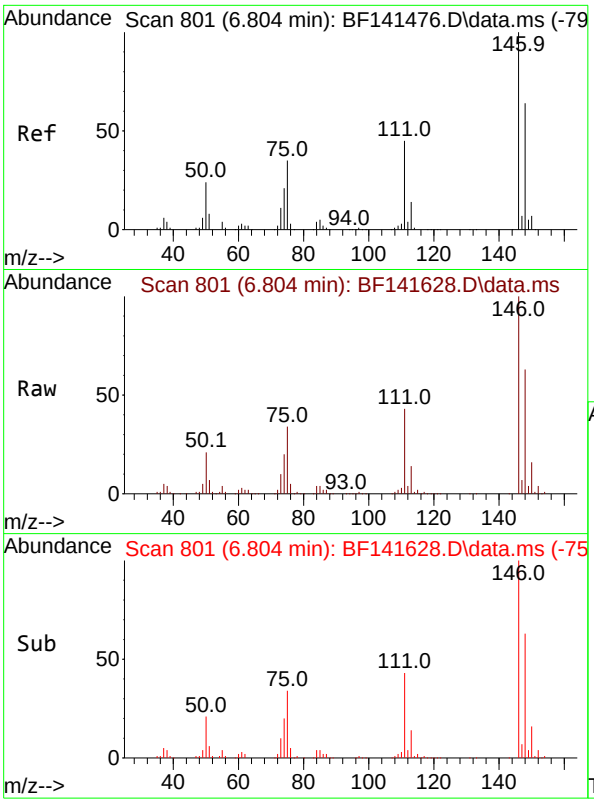


#12
1,3-Dichlorobenzene
Concen: 40.412 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:146 Resp: 303563

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.9	77.9
75	32.1	28.2	42.2



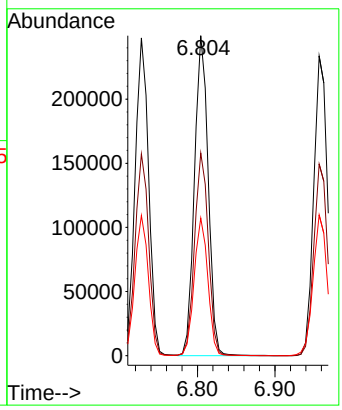


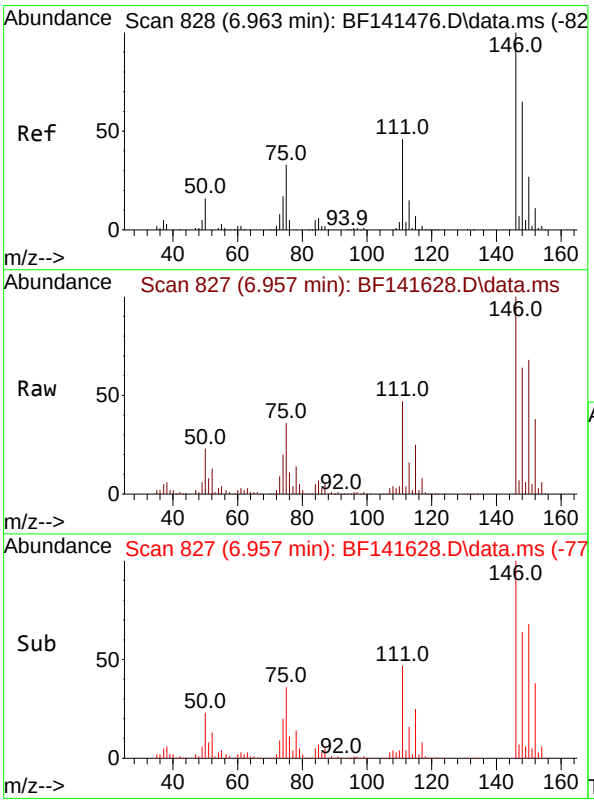
#13
1,4-Dichlorobenzene
Concen: 40.027 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 307205

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.9	76.3
111	43.0	35.9	53.9

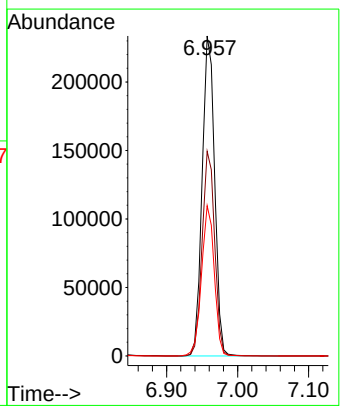


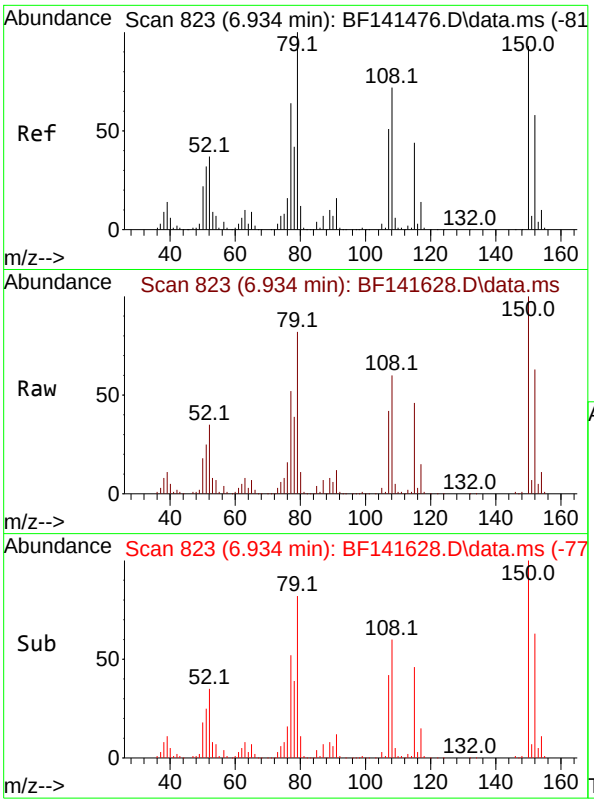


#14
1,2-Dichlorobenzene
Concen: 40.261 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:146 Resp: 286789

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.8	77.6
111	47.0	37.0	55.4



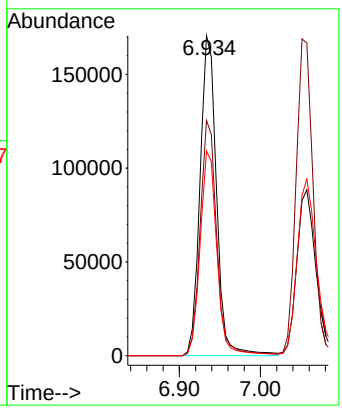


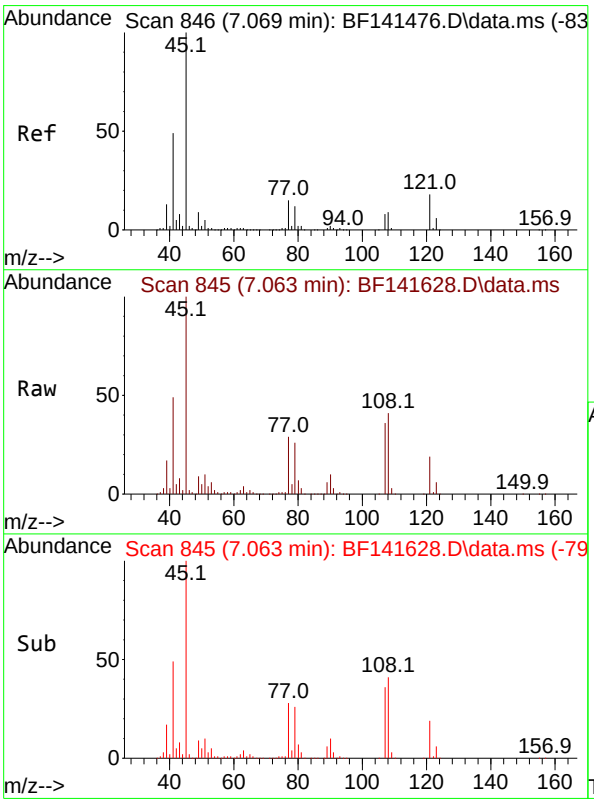
#15
Benzyl Alcohol
Concen: 37.752 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 240949

Ion	Ratio	Lower	Upper
79	100		
108	73.5	57.4	86.2
77	63.9	50.9	76.3

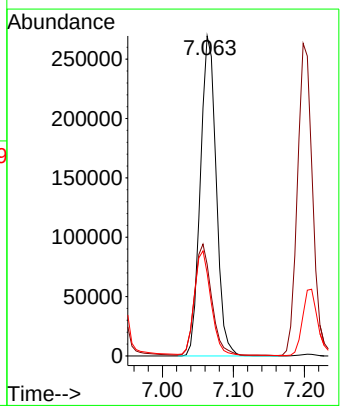


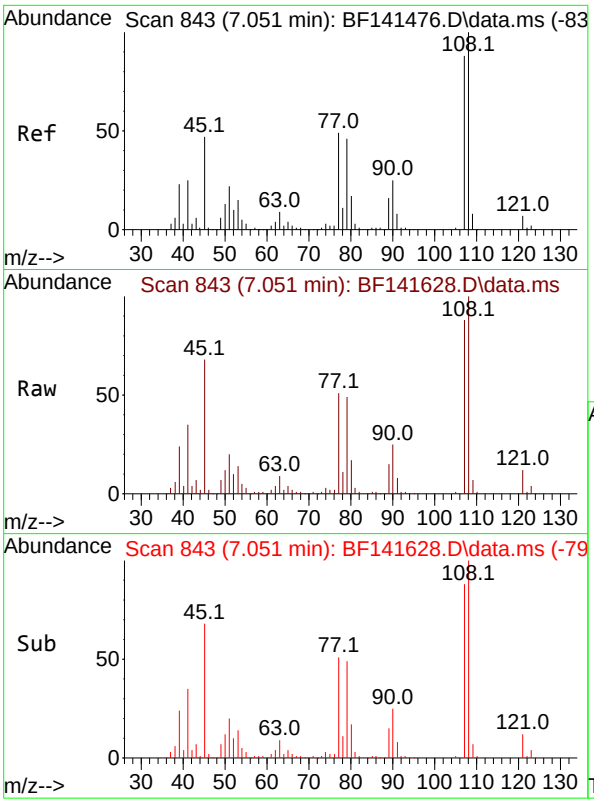


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.589 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 45 Resp: 418656

Ion	Ratio	Lower	Upper
45	100		
77	28.6	0.0	35.8
79	25.9	0.0	32.7



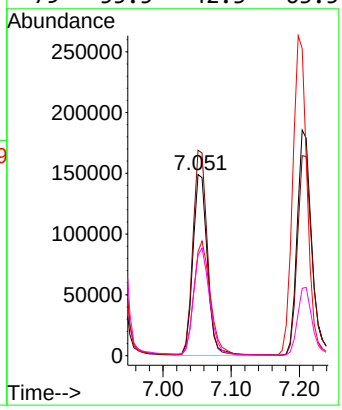


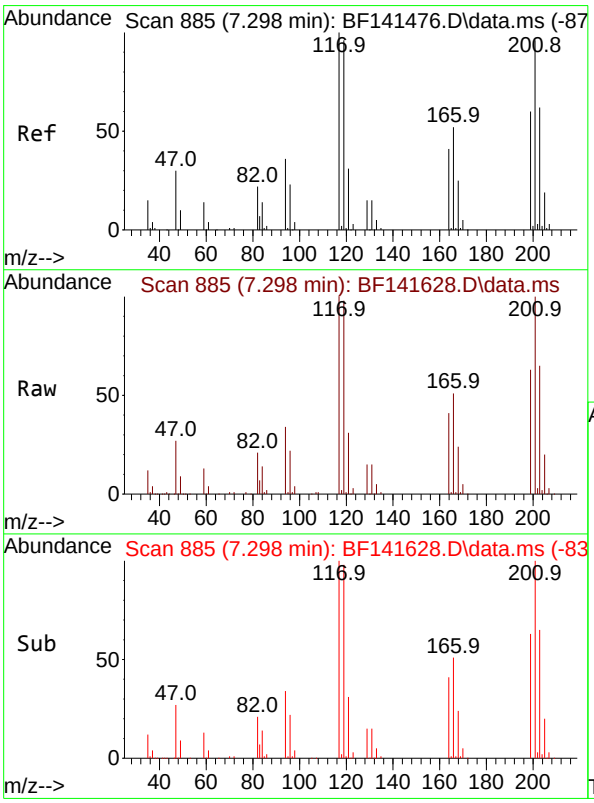
#17
2-Methylphenol
Concen: 39.246 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 218529

Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.6	136.0
77	57.4	44.4	66.6
79	55.5	42.3	63.5

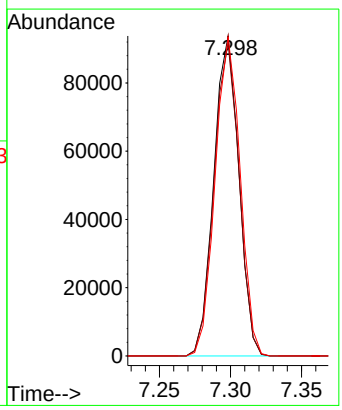


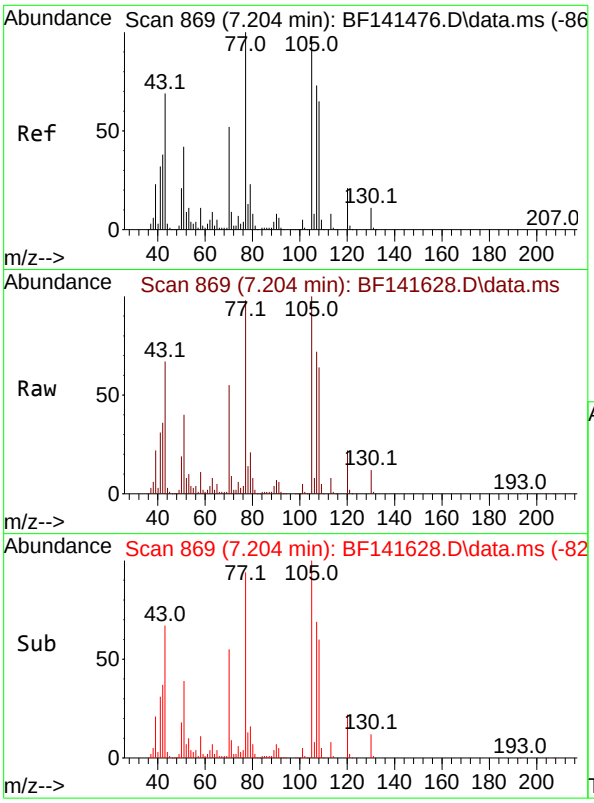


#18
Hexachloroethane
Concen: 40.455 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:117 Resp: 114908

Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.5	114.7
201	99.7	76.7	115.1



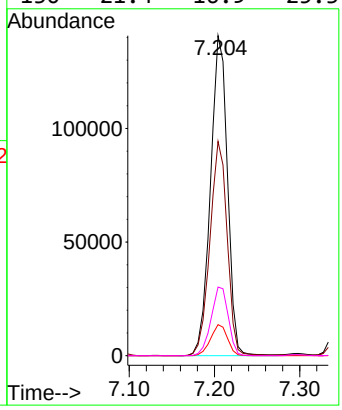


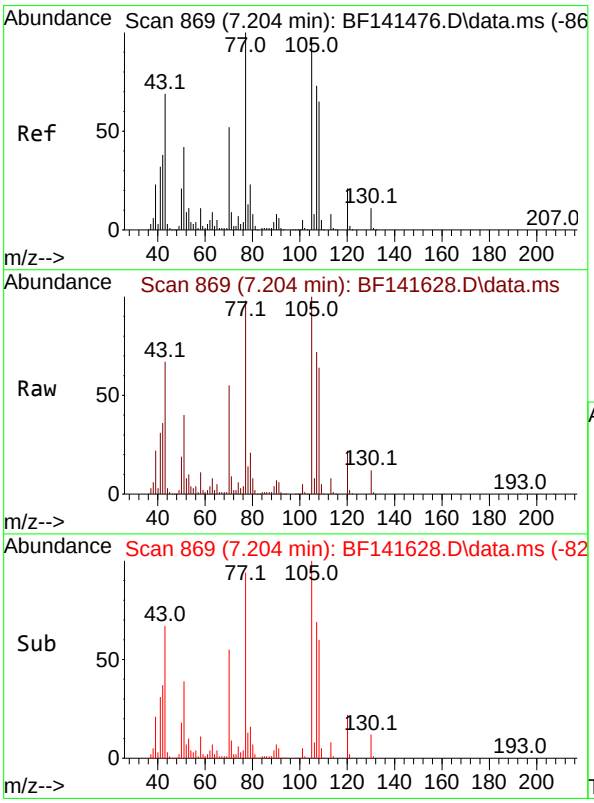
#19
n-Nitroso-di-n-propylamine
Concen: 39.230 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 195301

Ion	Ratio	Lower	Upper
70	100		
42	66.9	57.4	86.2
101	9.7	8.0	12.0
130	21.4	16.9	25.3

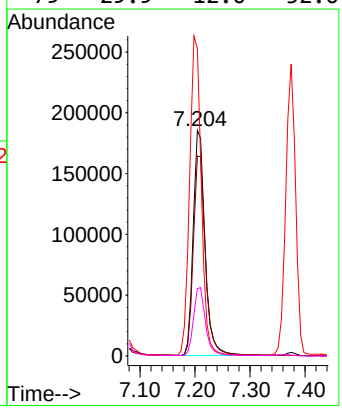


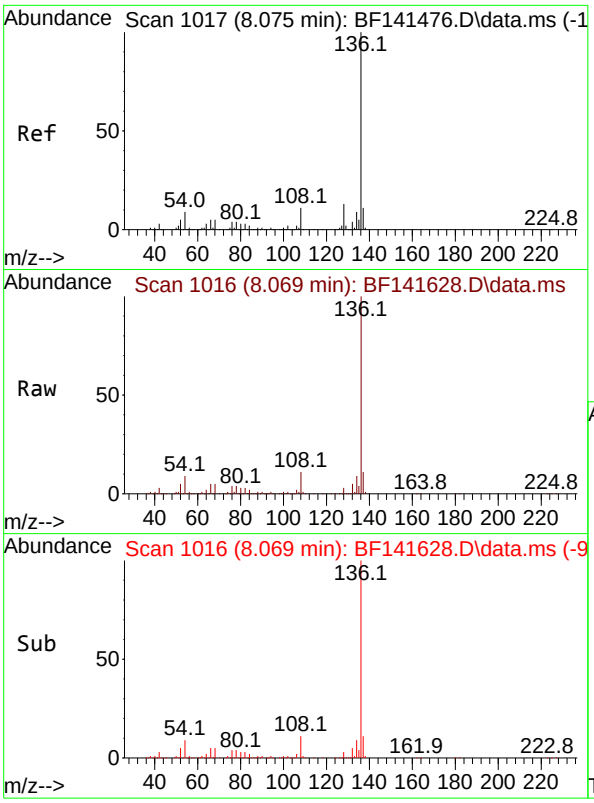


#20
3+4-Methylphenols
Concen: 39.116 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:107 Resp: 276797

Ion	Ratio	Lower	Upper
107	100		
108	88.7	68.5	108.5
77	136.1	116.5	156.5
79	29.9	12.0	52.0



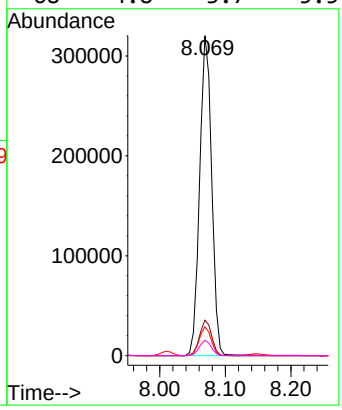


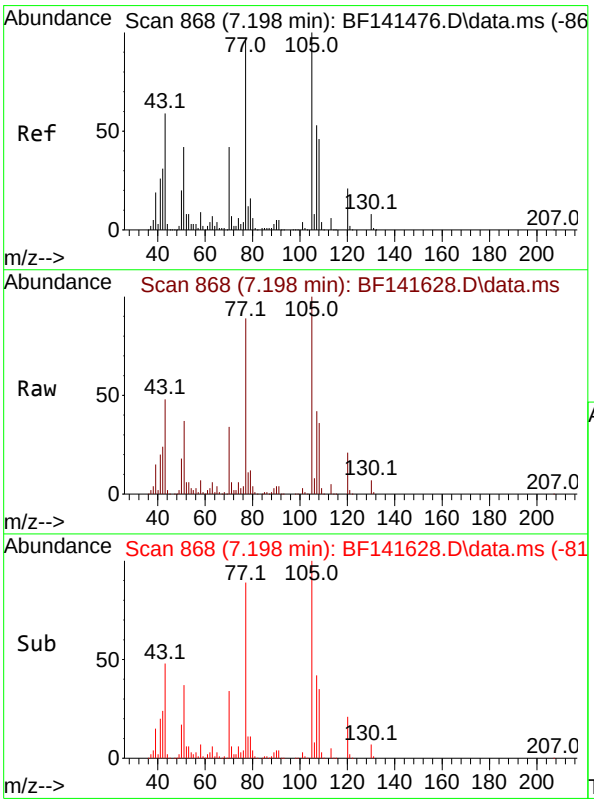
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 408887

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	9.0	7.2	10.8
68	4.8	3.7	5.5

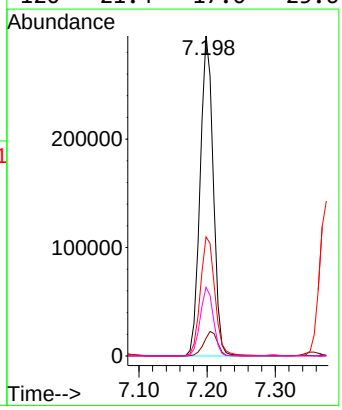


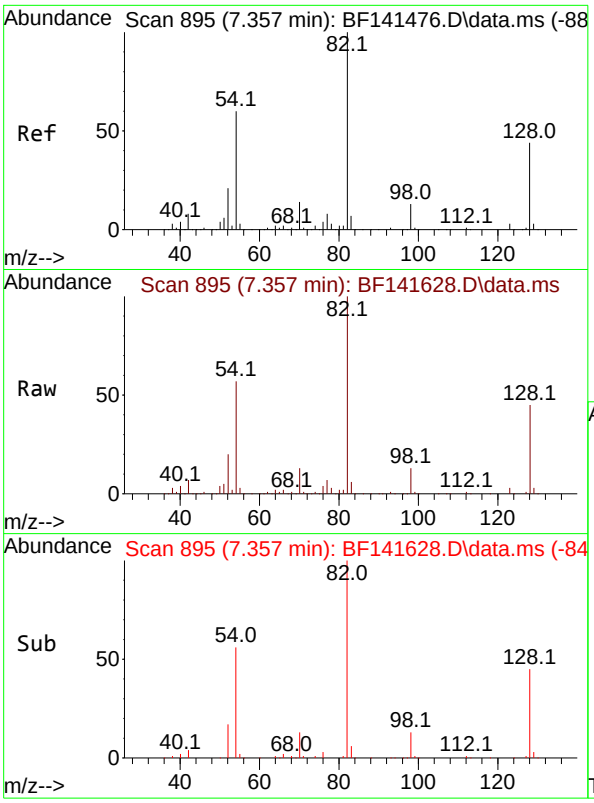


#22
Acetophenone
Concen: 38.865 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:105 Resp: 395306

Ion	Ratio	Lower	Upper
105	100		
71	5.6	5.7	8.5#
51	37.2	33.7	50.5
120	21.4	17.0	25.6



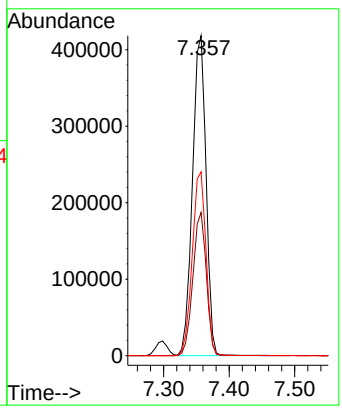


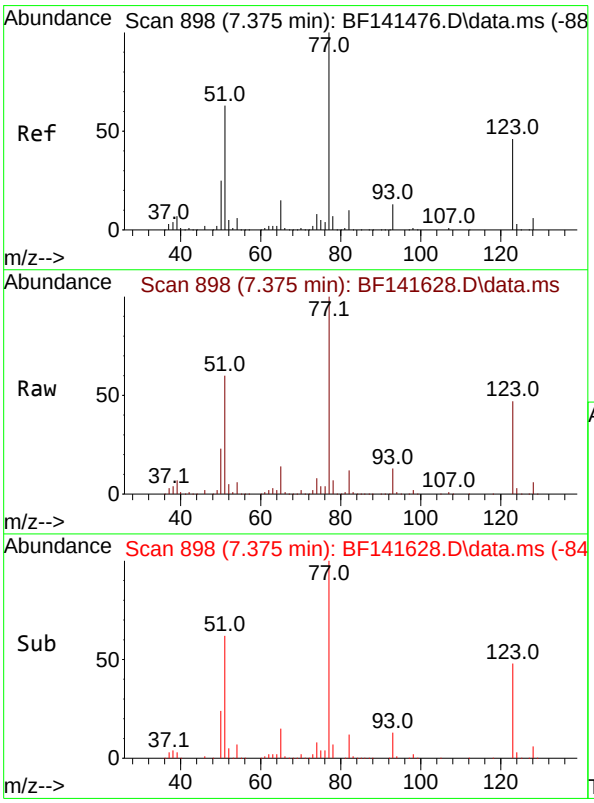
#23
Nitrobenzene-d5
Concen: 76.691 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 601209

Ion	Ratio	Lower	Upper
82	100		
128	44.7	34.8	52.2
54	57.5	48.2	72.4

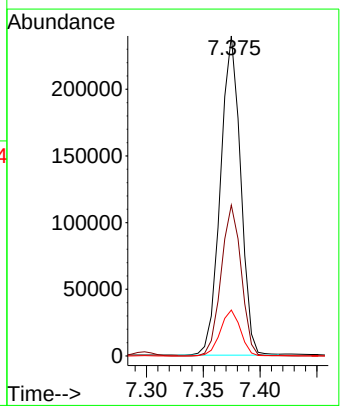


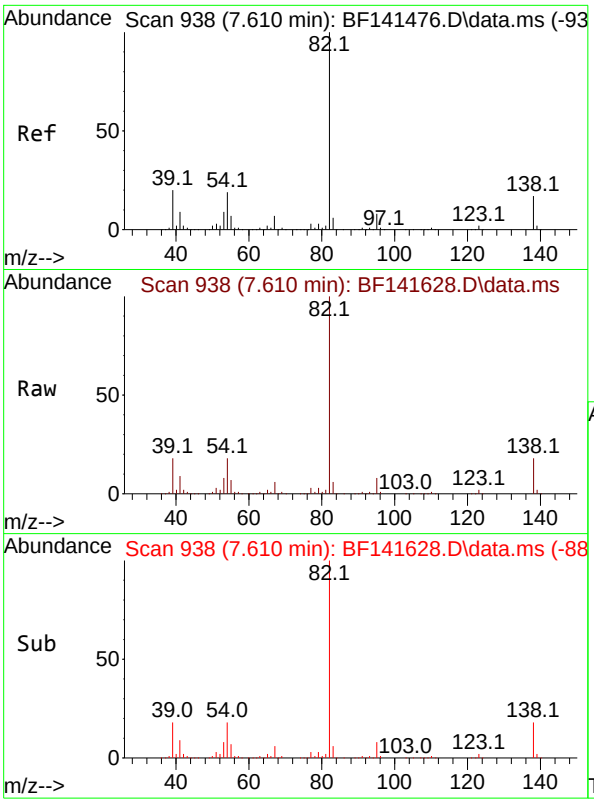


#24
Nitrobenzene
Concen: 38.767 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 77 Resp: 296352

Ion	Ratio	Lower	Upper
77	100		
123	47.1	36.9	55.3
65	14.3	11.9	17.9



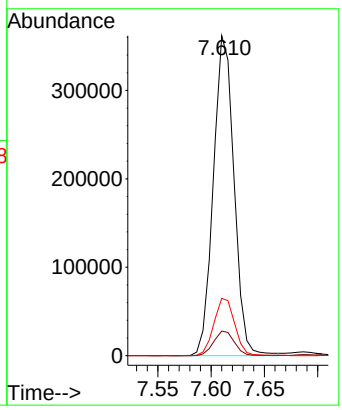


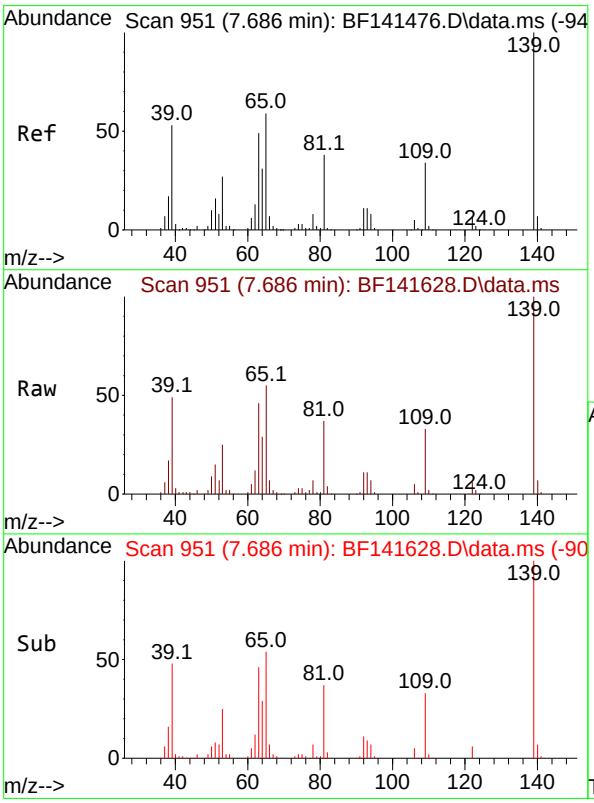
#25
Isophorone
Concen: 39.083 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 488521

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	17.9	13.9	20.9

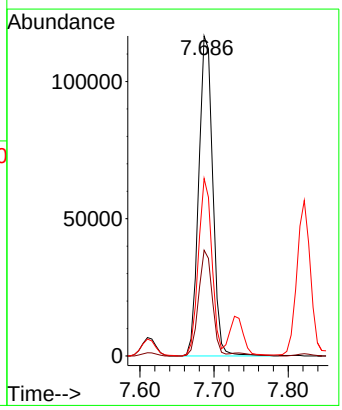


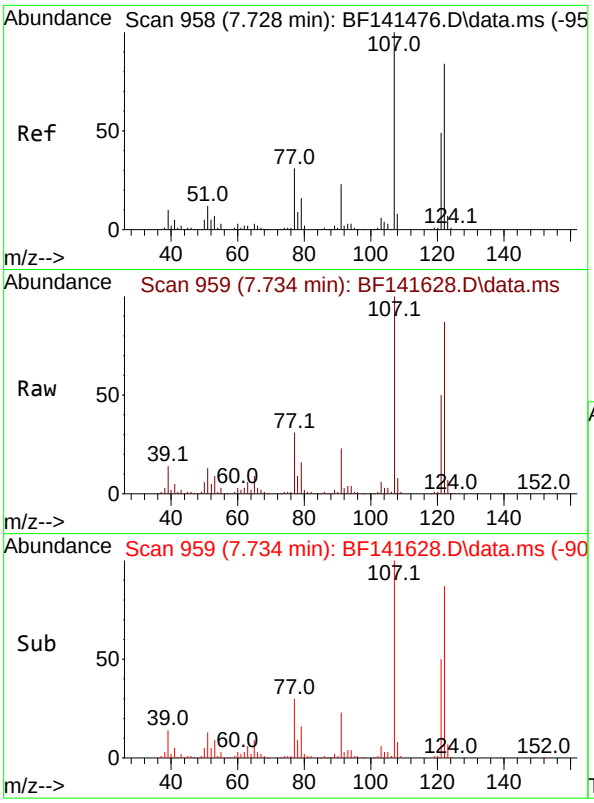


#26
2-Nitrophenol
Concen: 40.313 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:139 Resp: 153320

Ion	Ratio	Lower	Upper
139	100		
109	33.0	27.0	40.6
65	55.4	47.1	70.7



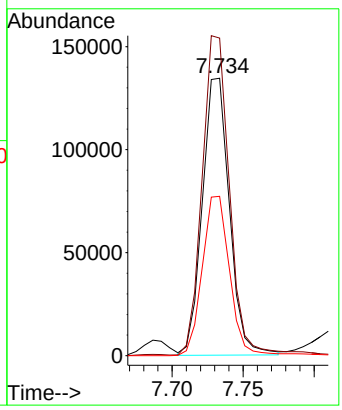


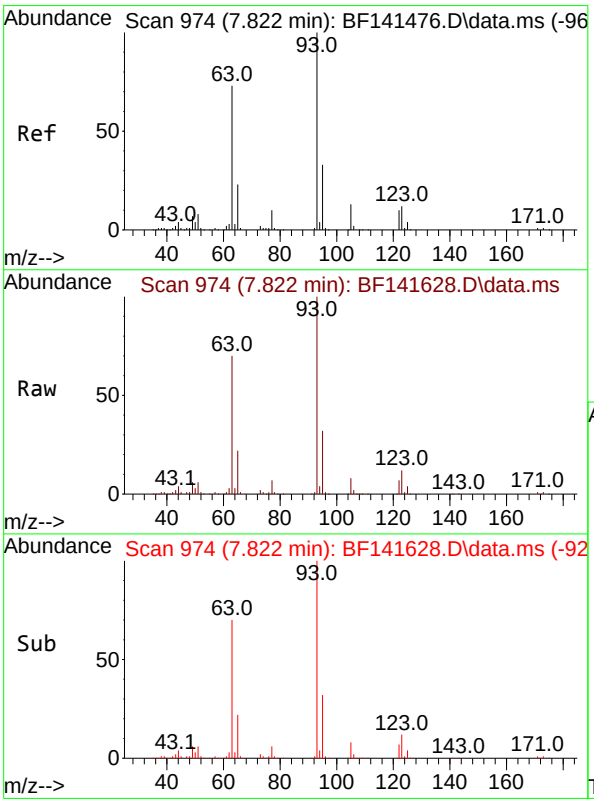
#27
2,4-Dimethylphenol
Concen: 40.232 ng
RT: 7.734 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 178748

Ion	Ratio	Lower	Upper
122	100		
107	114.5	94.3	141.5
121	57.4	46.0	69.0

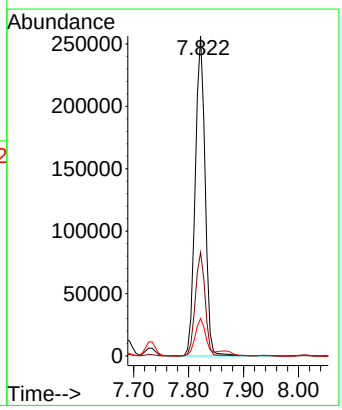


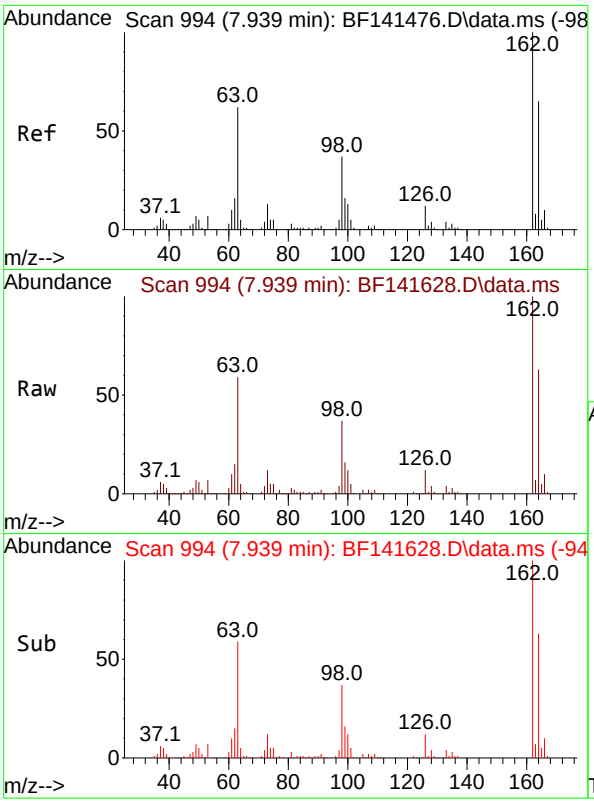


#28
bis(2-Chloroethoxy)methane
Concen: 40.055 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 93 Resp: 320824

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.1	39.1
123	11.7	9.5	14.3



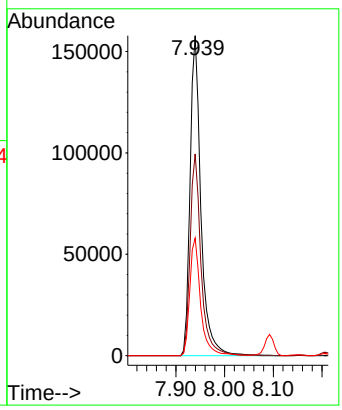


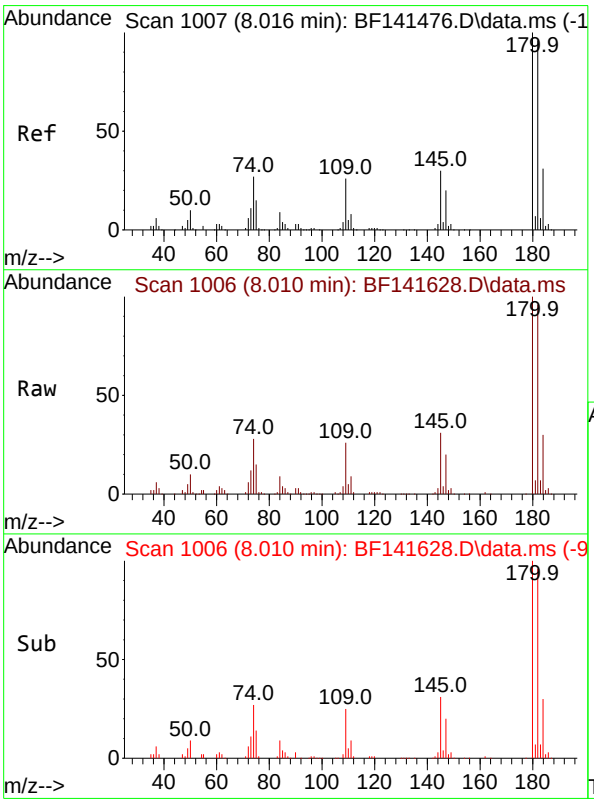
#29
2,4-Dichlorophenol
Concen: 40.820 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 245043

Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.6	84.6
98	36.8	17.2	57.2

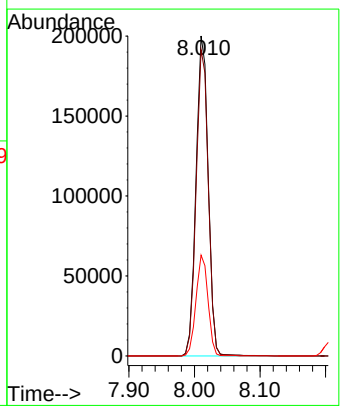


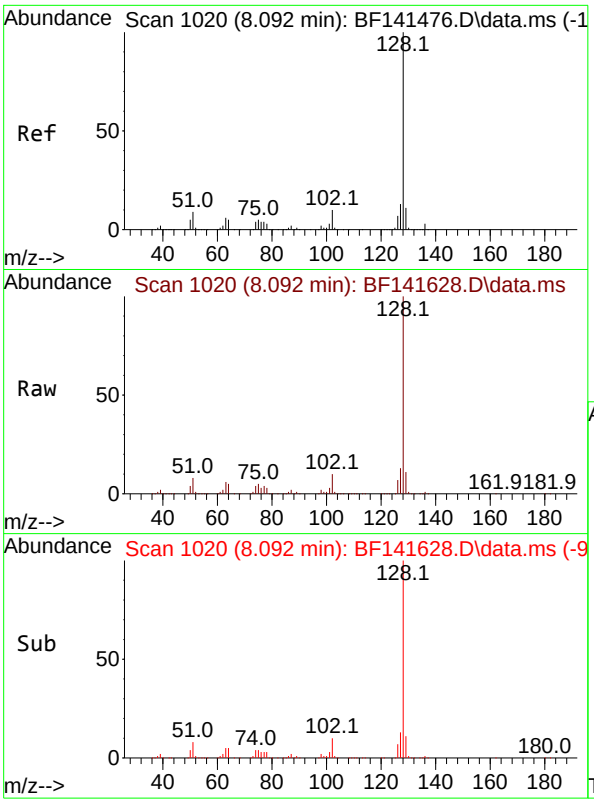


#30
1,2,4-Trichlorobenzene
Concen: 39.654 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:180 Resp: 259227

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	31.5	24.2	36.4



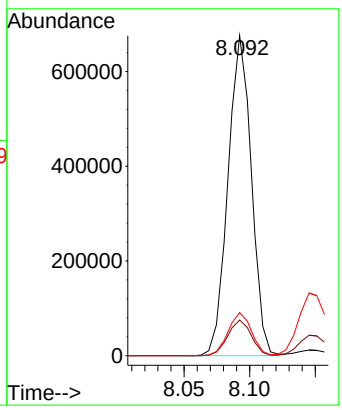


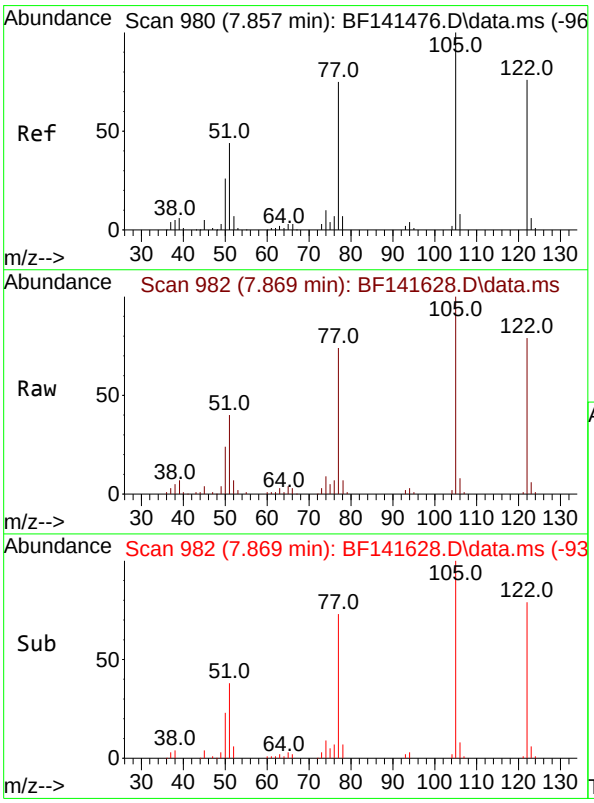
#31
Naphthalene
Concen: 39.370 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 837949

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.5	10.7	16.1

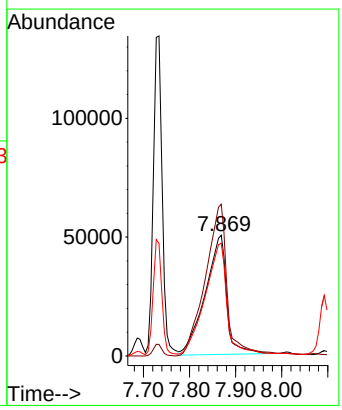


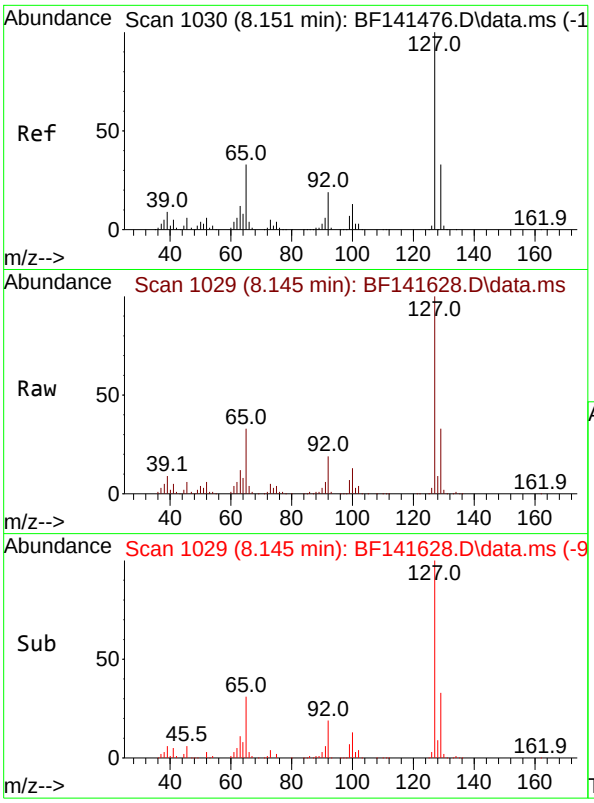


#32
Benzoic acid
Concen: 35.300 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.023 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:122 Resp: 162909

Ion	Ratio	Lower	Upper
122	100		
105	125.8	106.5	146.5
77	93.6	76.3	116.3



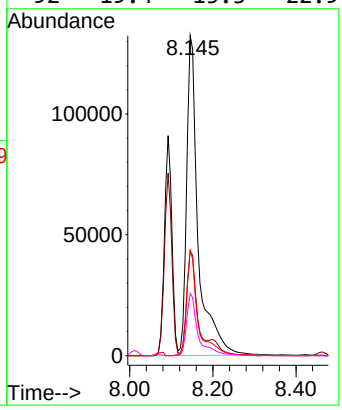


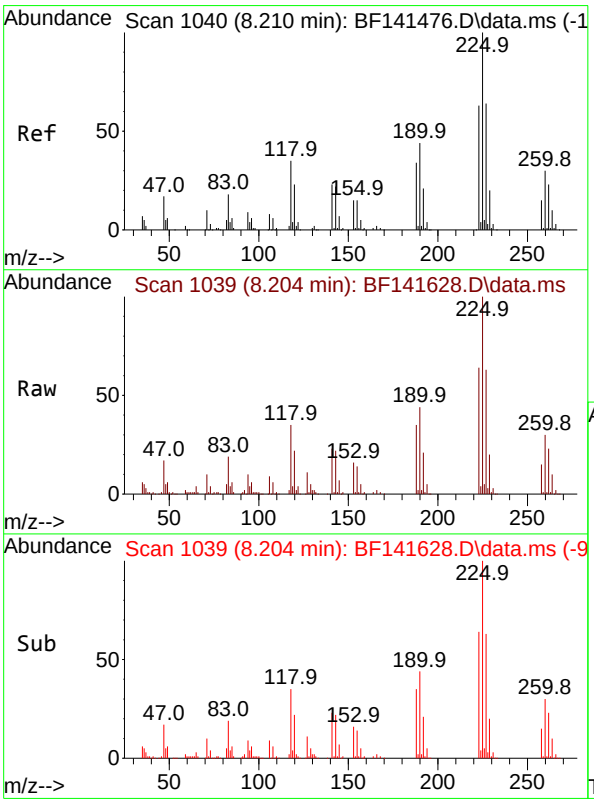
#33
4-Chloroaniline
Concen: 34.648 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 257469

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.5	39.7
65	32.9	26.4	39.6
92	19.4	15.3	22.9

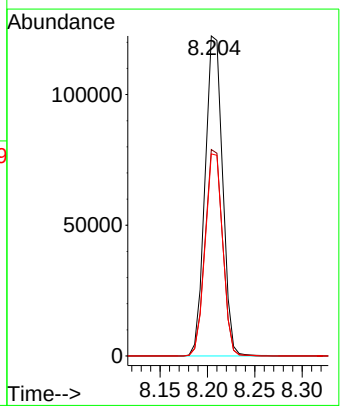


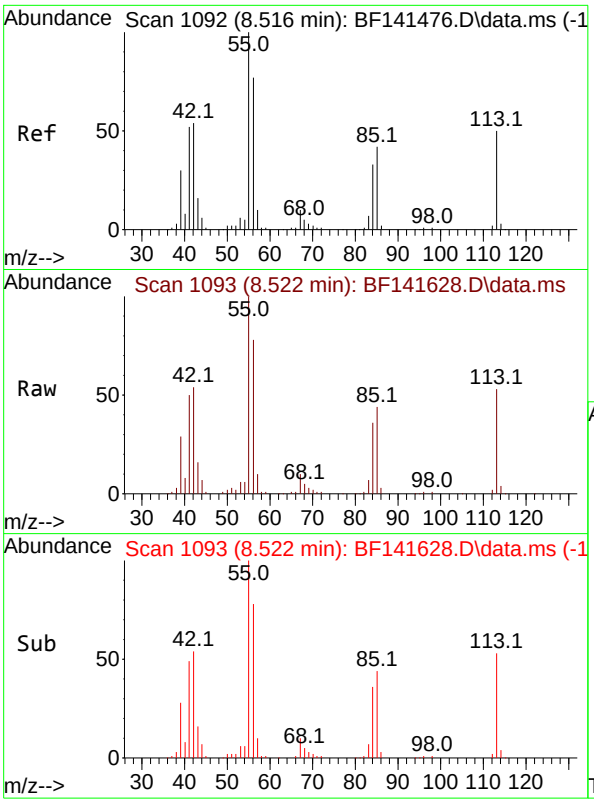


#34
Hexachlorobutadiene
Concen: 40.028 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:225 Resp: 157090

Ion	Ratio	Lower	Upper
225	100		
223	64.5	50.1	75.1
227	63.1	51.0	76.6



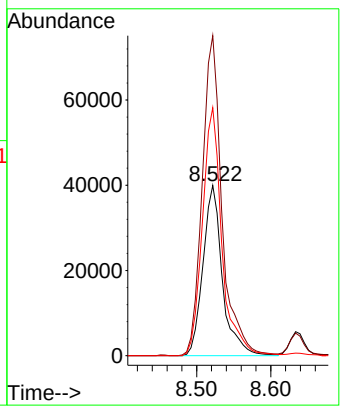


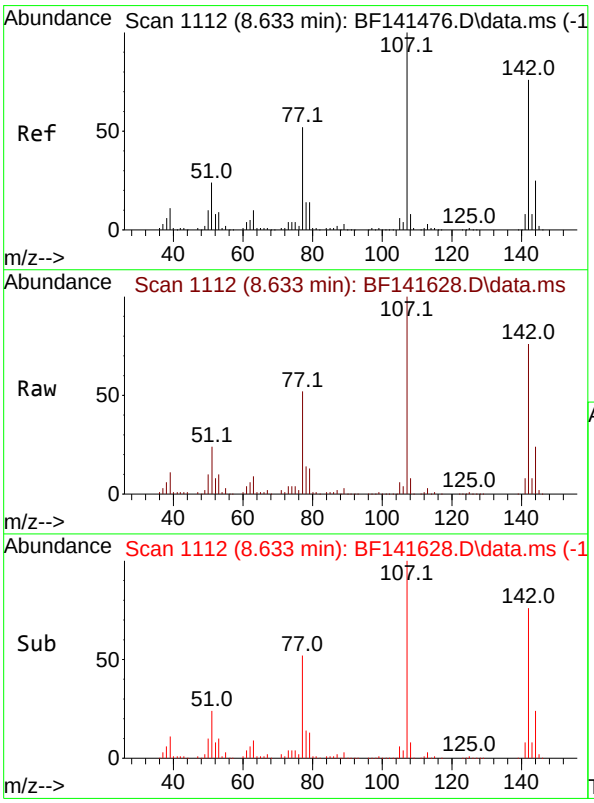
#35
Caprolactam
Concen: 39.867 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 72867

Ion	Ratio	Lower	Upper
113	100		
55	188.0	180.8	220.8
56	145.7	133.6	173.6

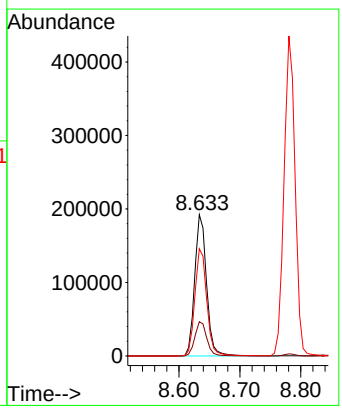


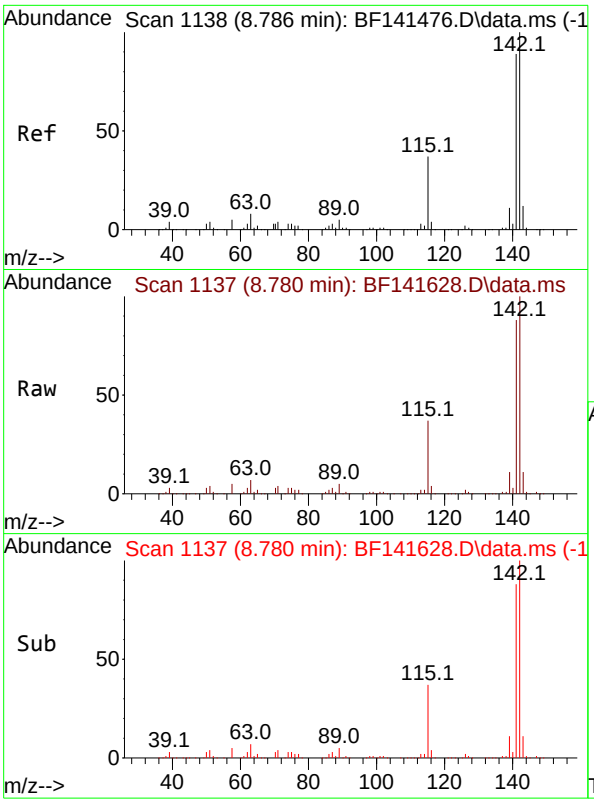


#36
4-Chloro-3-methylphenol
Concen: 39.105 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:107 Resp: 260038

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.7	29.5
142	75.9	60.8	91.2



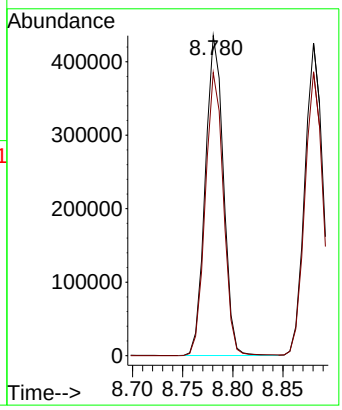


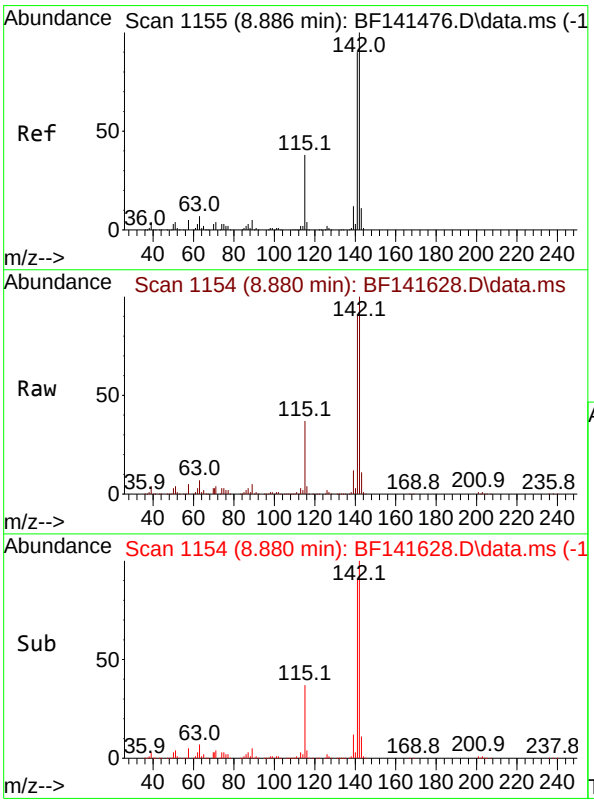
#37
2-Methylnaphthalene
Concen: 39.544 ng
RT: 8.780 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 547697

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.2	106.8

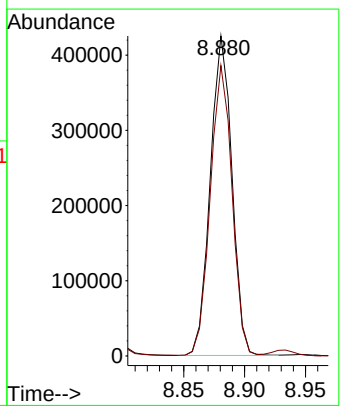


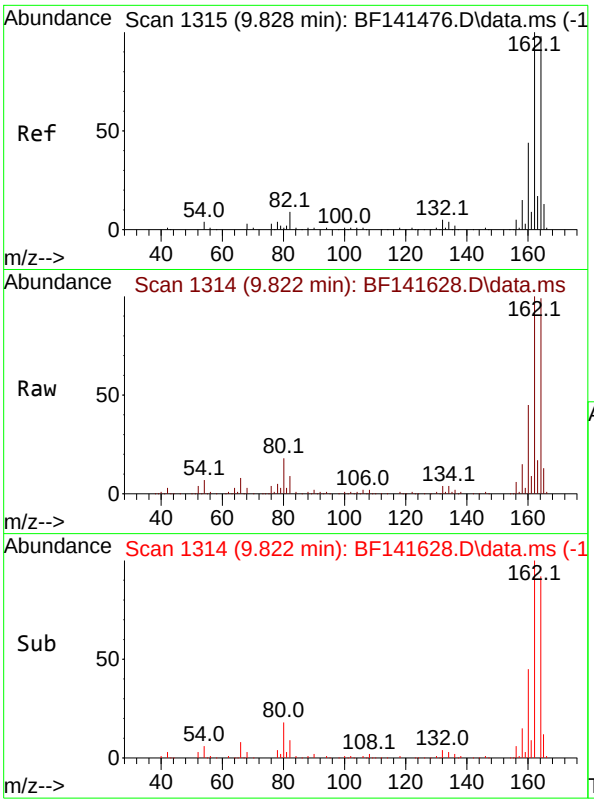


#38
1-Methylnaphthalene
Concen: 39.219 ng
RT: 8.880 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:142 Resp: 526093

Ion	Ratio	Lower	Upper
142	100		
141	90.8	72.1	108.1



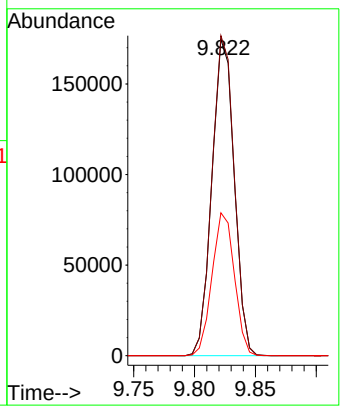


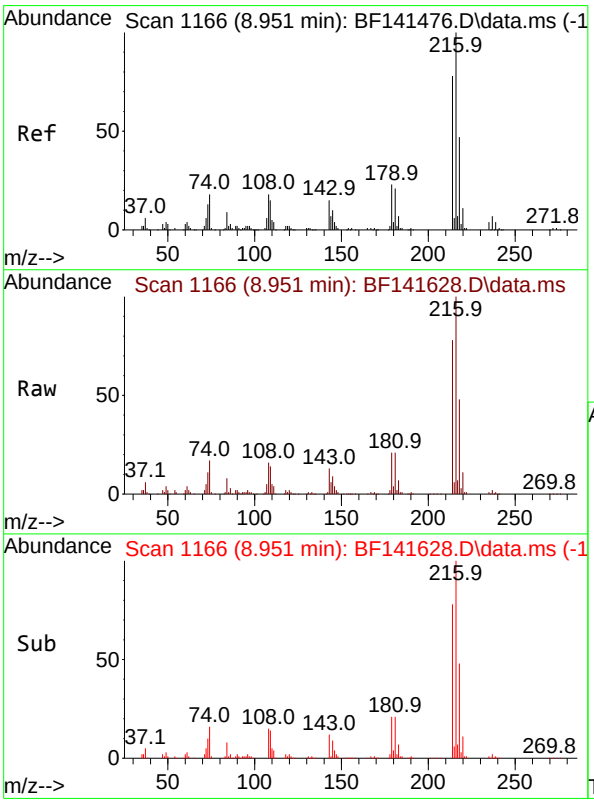
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 222735

Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.3	121.9
160	45.2	35.9	53.9

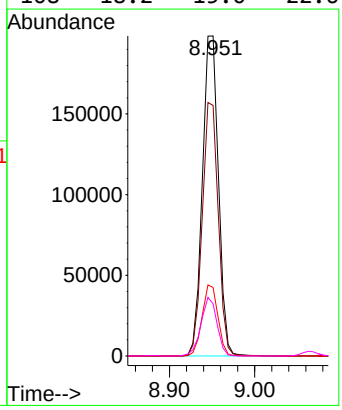


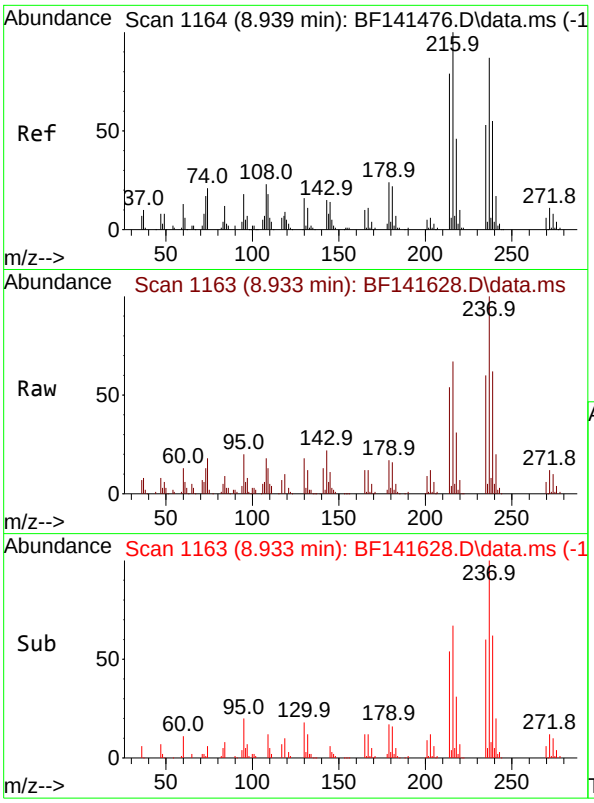


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.291 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:216 Resp: 259636

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.3	93.5
179	21.8	18.0	27.0
108	18.2	15.0	22.6



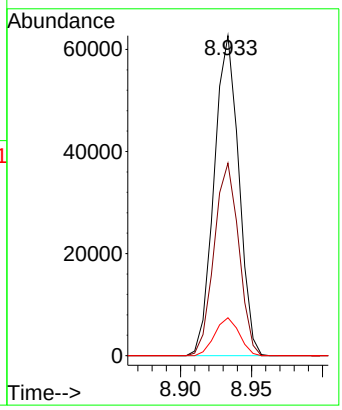


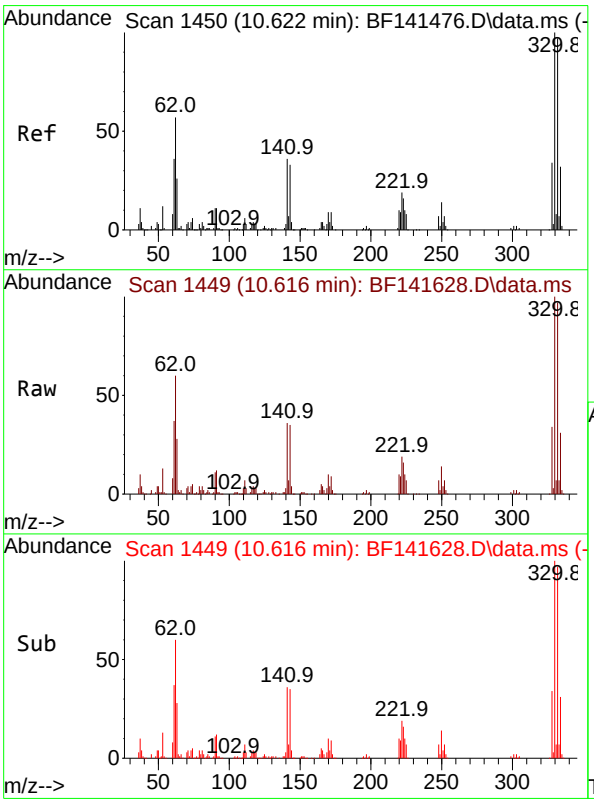
#41
Hexachlorocyclopentadiene
Concen: 35.332 ng
RT: 8.933 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 75729

Ion	Ratio	Lower	Upper
237	100		
235	60.2	41.4	81.4
272	11.9	0.0	32.4

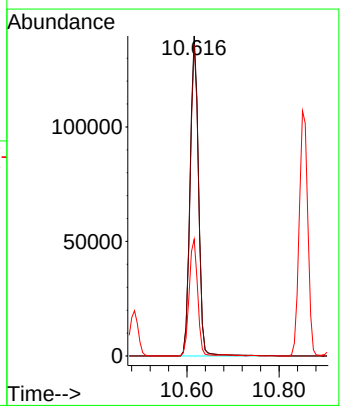


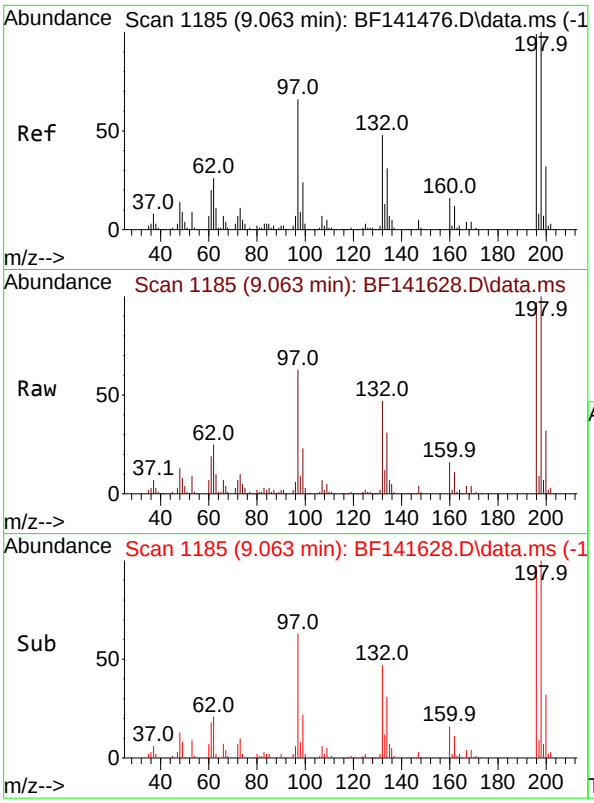


#42
2,4,6-Tribromophenol
Concen: 79.105 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:330 Resp: 176996

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.5	117.7
141	36.5	31.0	46.4



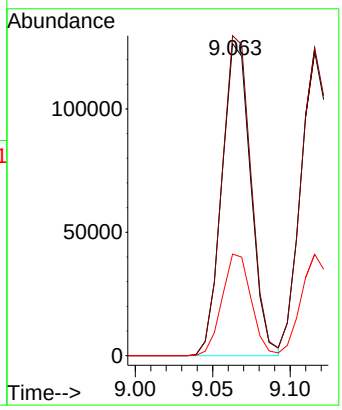


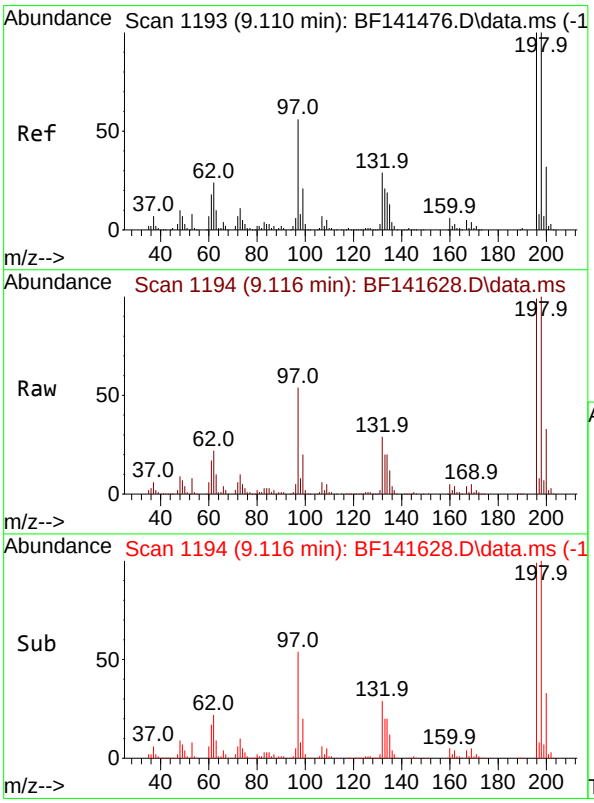
#43
2,4,6-Trichlorophenol
Concen: 39.585 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 164866

Ion	Ratio	Lower	Upper
196	100		
198	102.6	80.6	121.0
200	32.6	25.5	38.3

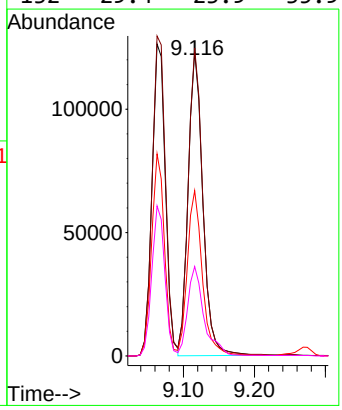


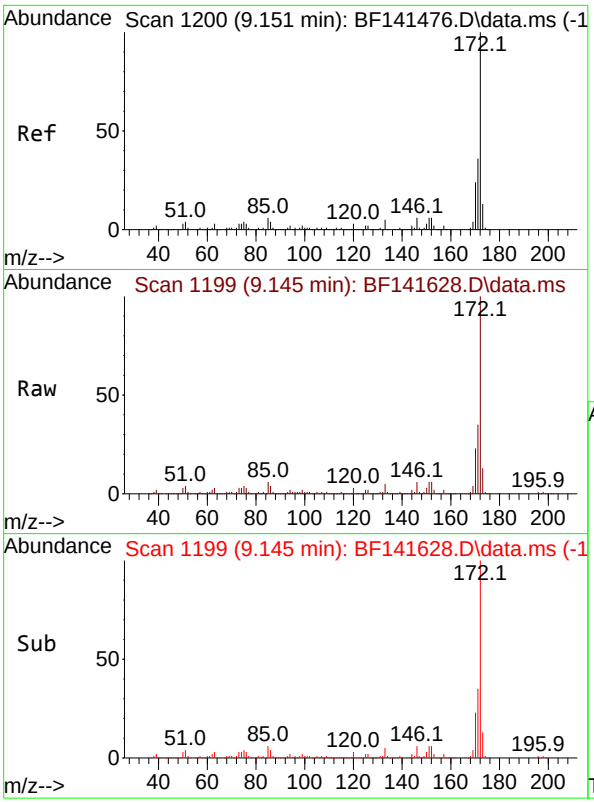


#44
2,4,5-Trichlorophenol
Concen: 39.301 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:196 Resp: 177394

Ion	Ratio	Lower	Upper
196	100		
198	101.3	79.8	119.8
97	54.4	44.8	67.2
132	29.4	23.9	35.9



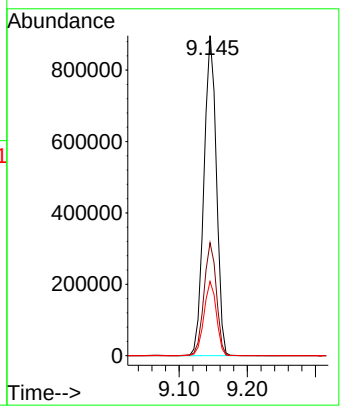


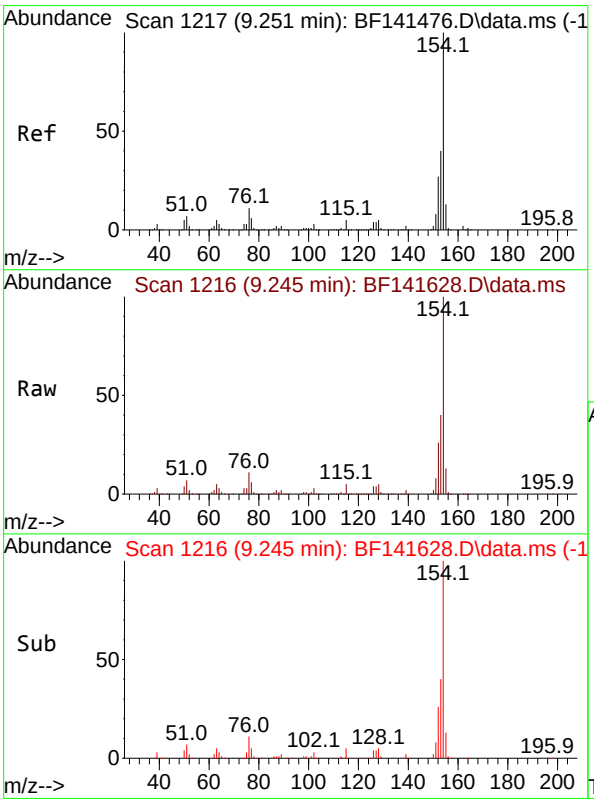
#45
2-Fluorobiphenyl
Concen: 78.876 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1140335

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.7	43.1
170	23.2	18.9	28.3

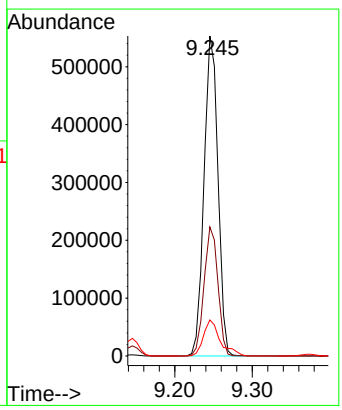


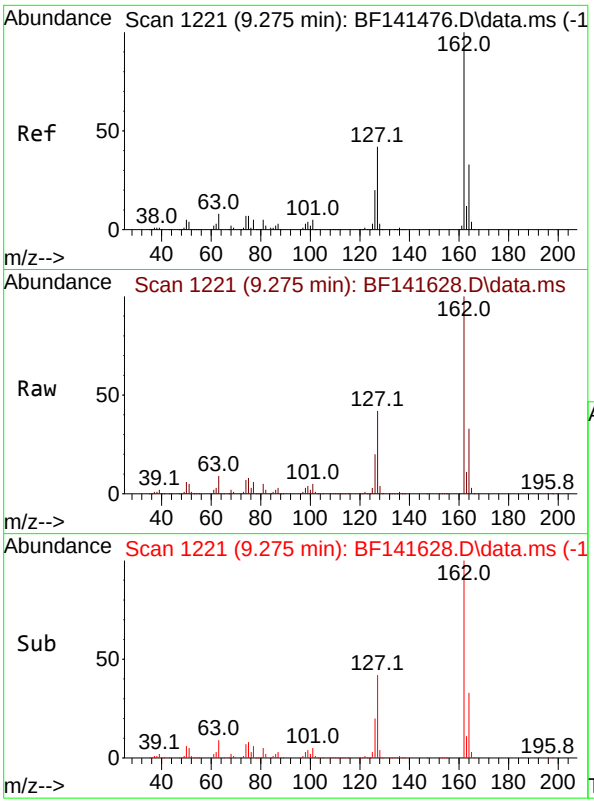


#46
1,1'-Biphenyl
Concen: 39.956 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:154 Resp: 689968

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.4	60.4
76	11.3	0.0	30.8



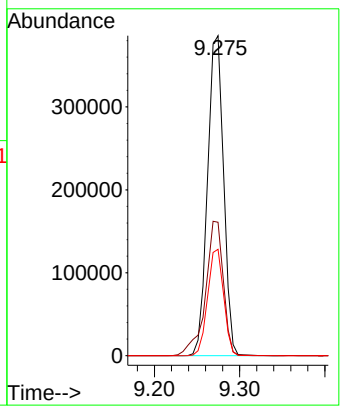


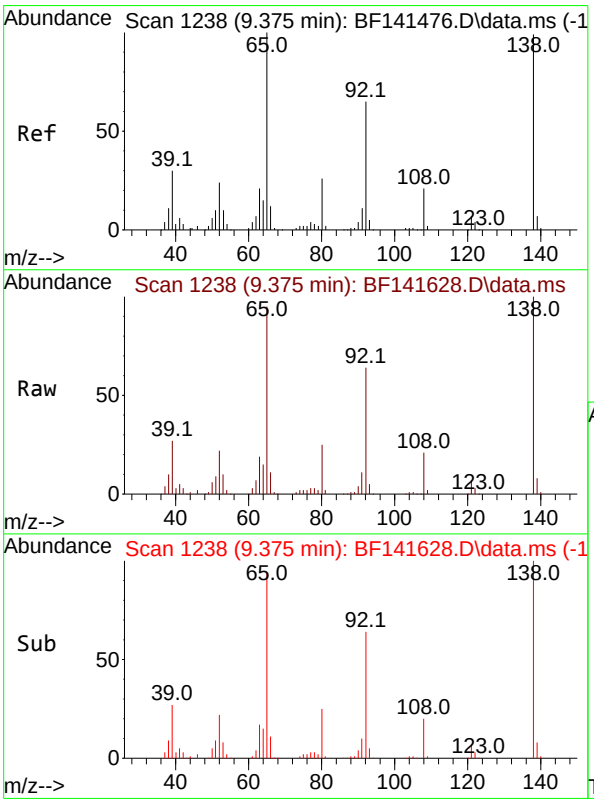
#47
2-Chloronaphthalene
Concen: 39.566 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 505227

Ion	Ratio	Lower	Upper
162	100		
127	41.7	34.1	51.1
164	33.2	26.3	39.5

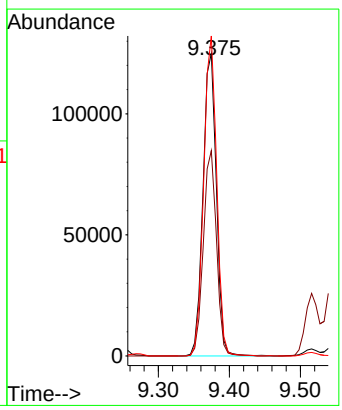


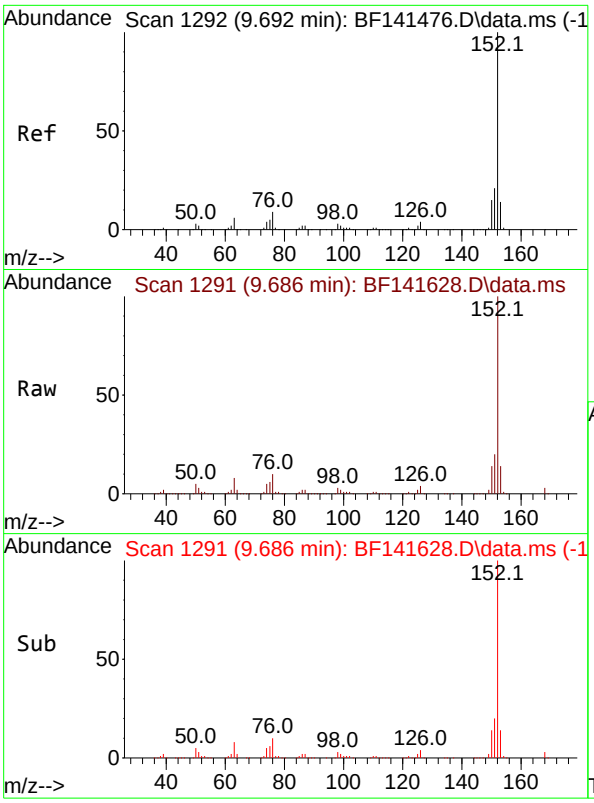


#48
2-Nitroaniline
Concen: 38.220 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion: 65 Resp: 163788

Ion	Ratio	Lower	Upper
65	100		
92	67.9	52.2	78.2
138	105.8	79.5	119.3



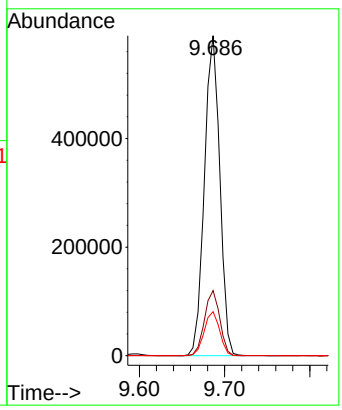


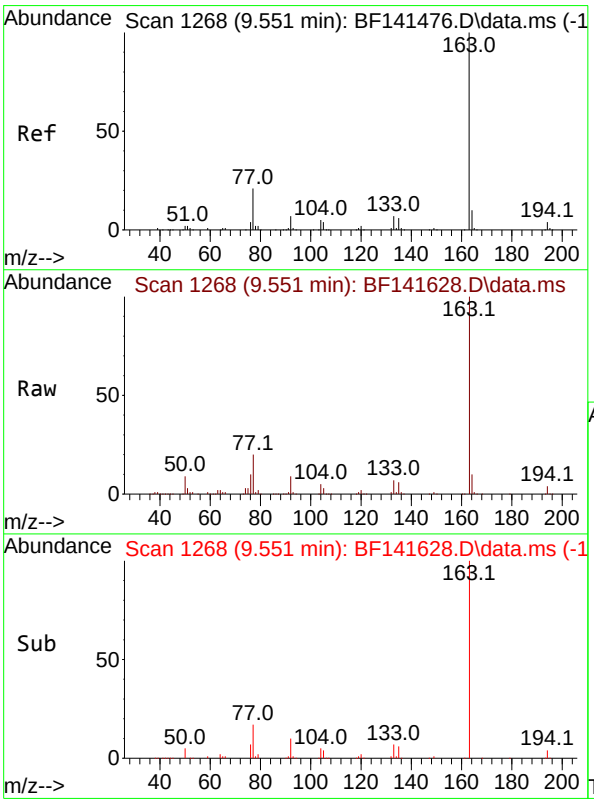
#49
Acenaphthylene
Concen: 38.997 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 740665

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6
153	13.8	10.9	16.3

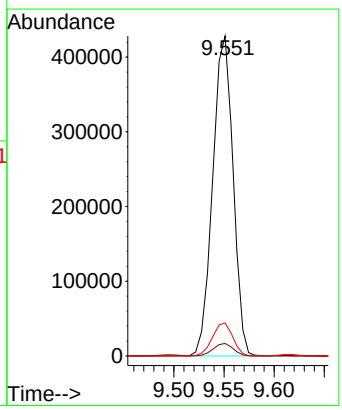


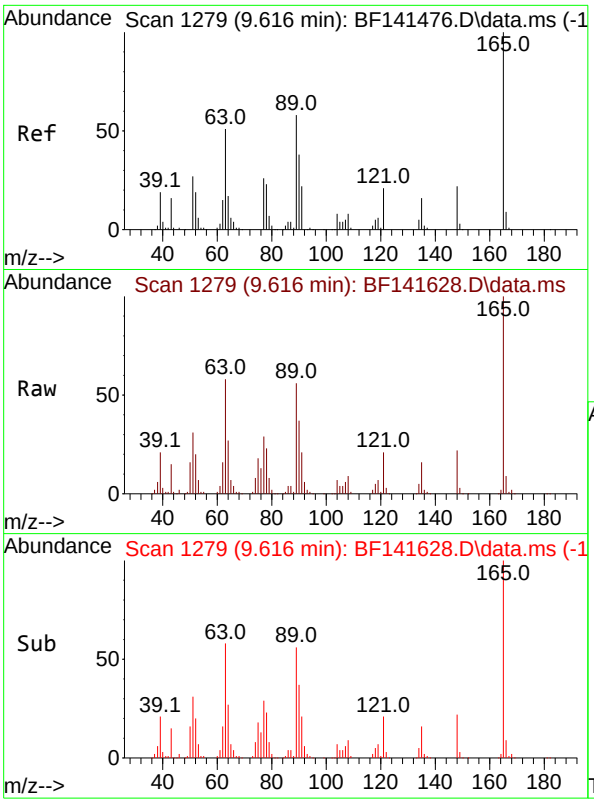


#50
Dimethylphthalate
Concen: 40.024 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:163 Resp: 605202

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.4
164	10.3	7.9	11.9



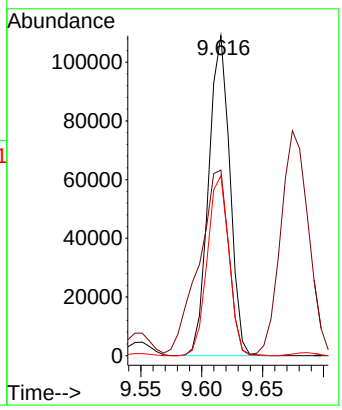


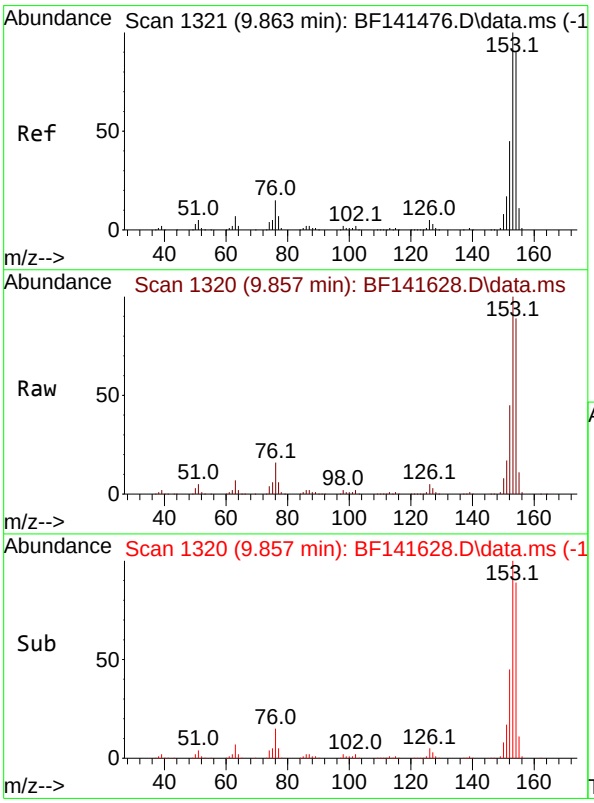
#51
2,6-Dinitrotoluene
Concen: 39.958 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 132084

Ion	Ratio	Lower	Upper
165	100		
63	58.0	49.4	74.0
89	56.2	46.5	69.7

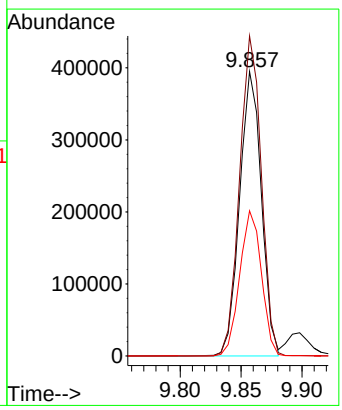


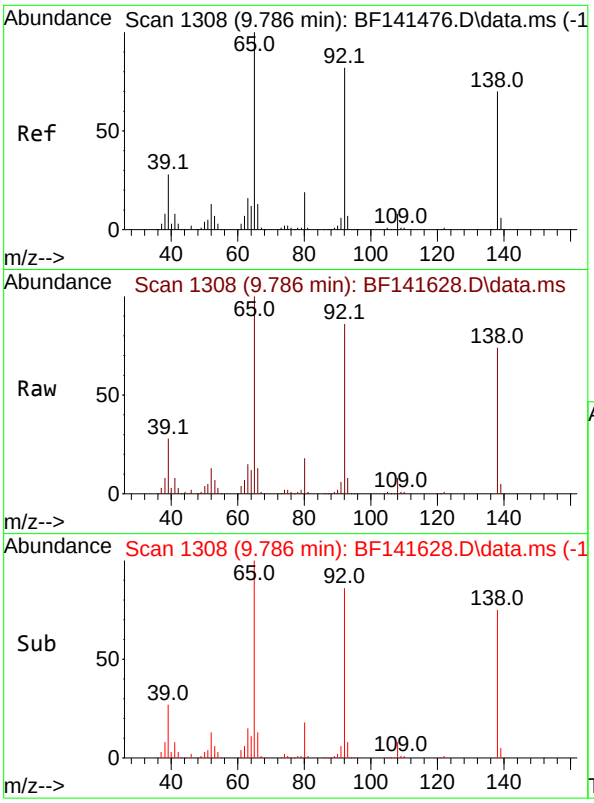


#52
Acenaphthene
Concen: 38.533 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:154 Resp: 492013

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	51.0	39.8	59.8



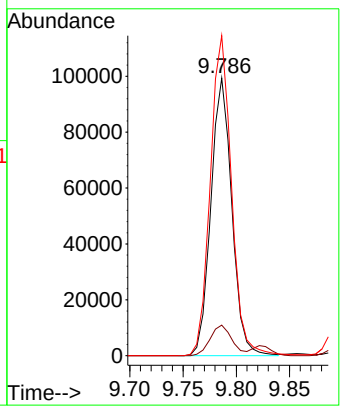


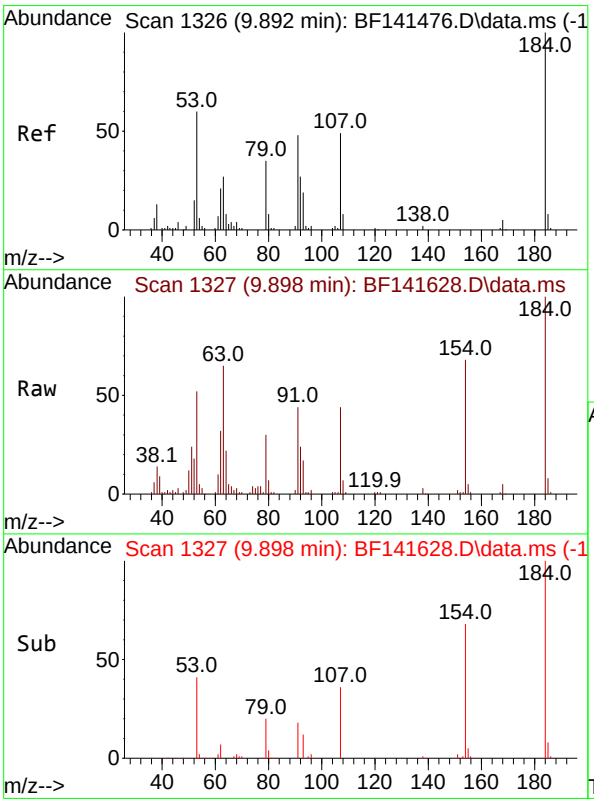
#53
3-Nitroaniline
Concen: 38.182 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 135841

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	115.3	93.7	140.5

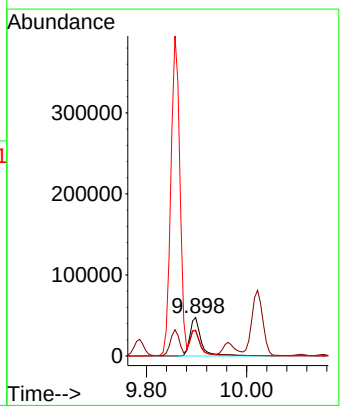


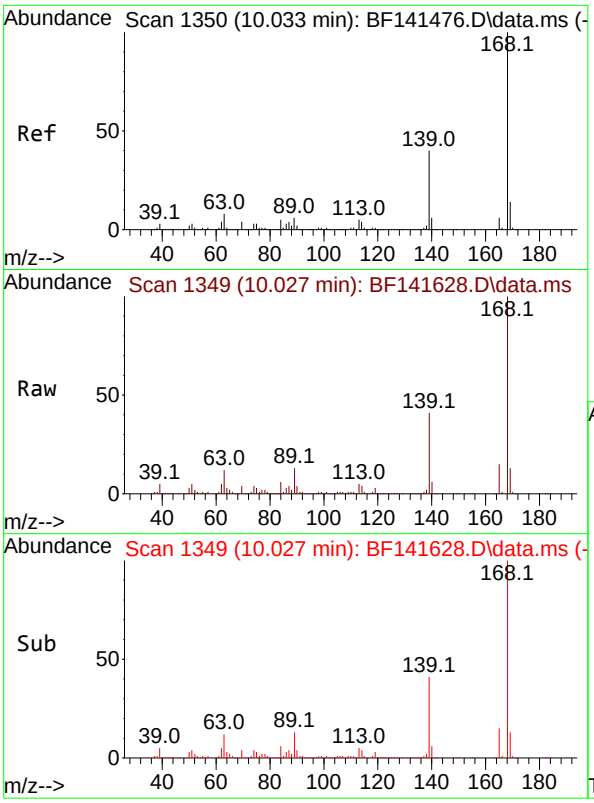


#54
2,4-Dinitrophenol
Concen: 37.673 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:184 Resp: 74012

Ion	Ratio	Lower	Upper
184	100		
63	65.4	61.0	91.6
154	67.9	59.9	89.9



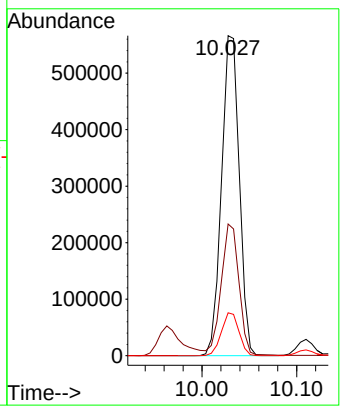


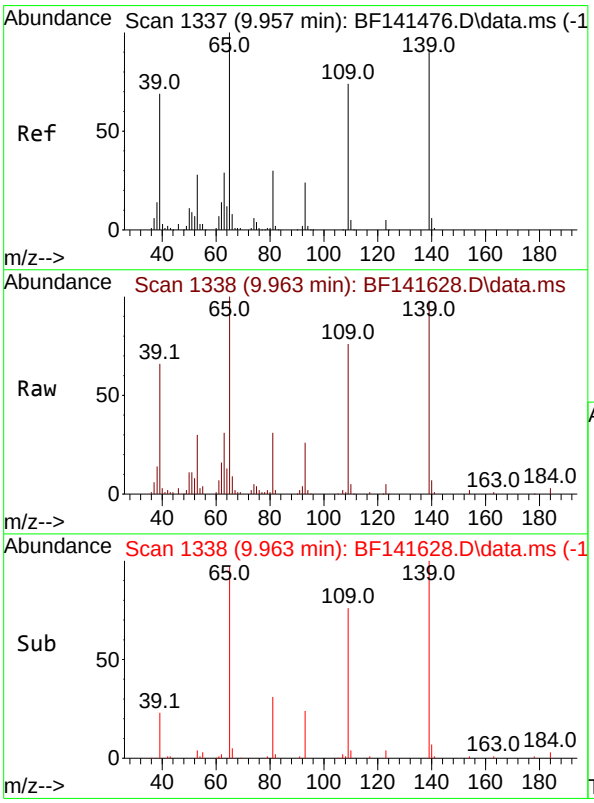
#55
Dibenzofuran
Concen: 39.414 ng
RT: 10.027 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 738708

Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.7	49.1
169	13.4	10.8	16.2

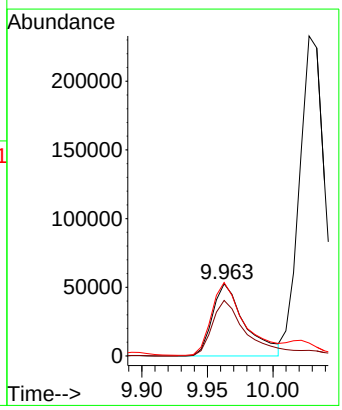


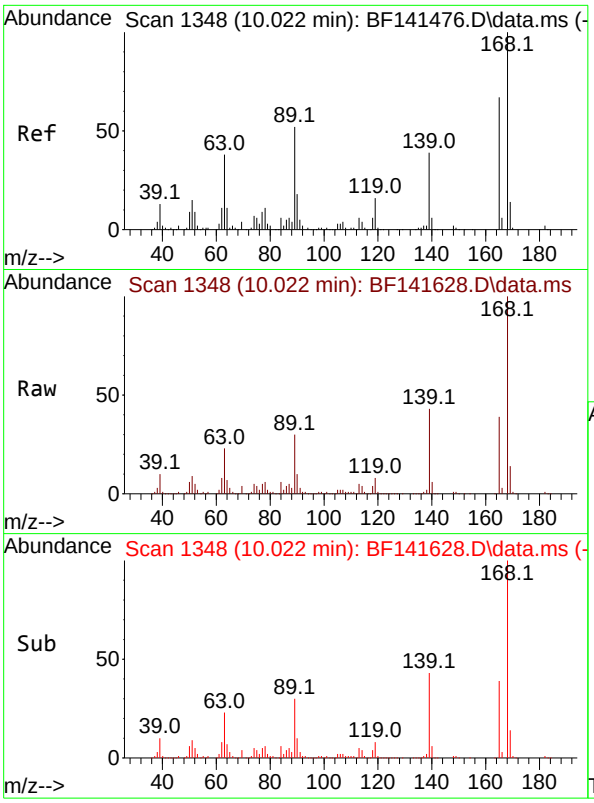


#56
4-Nitrophenol
Concen: 34.306 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:139 Resp: 90604

Ion	Ratio	Lower	Upper
139	100		
109	76.8	62.0	102.0
65	101.6	91.2	131.2



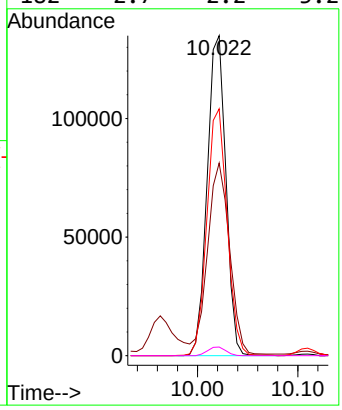


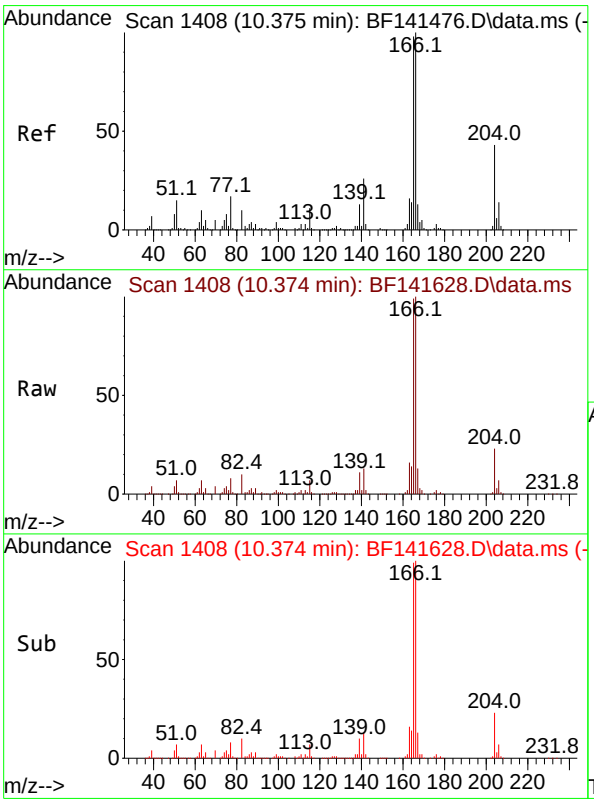
#57
2,4-Dinitrotoluene
Concen: 39.640 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 174433

Ion	Ratio	Lower	Upper
165	100		
63	60.2	46.4	69.6
89	77.1	61.8	92.6
182	2.7	2.2	3.2

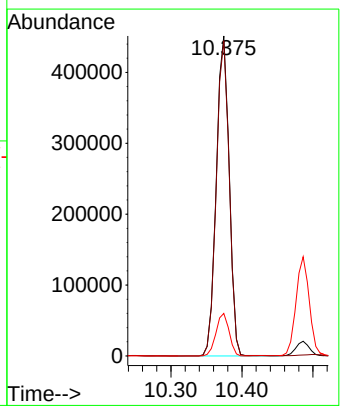


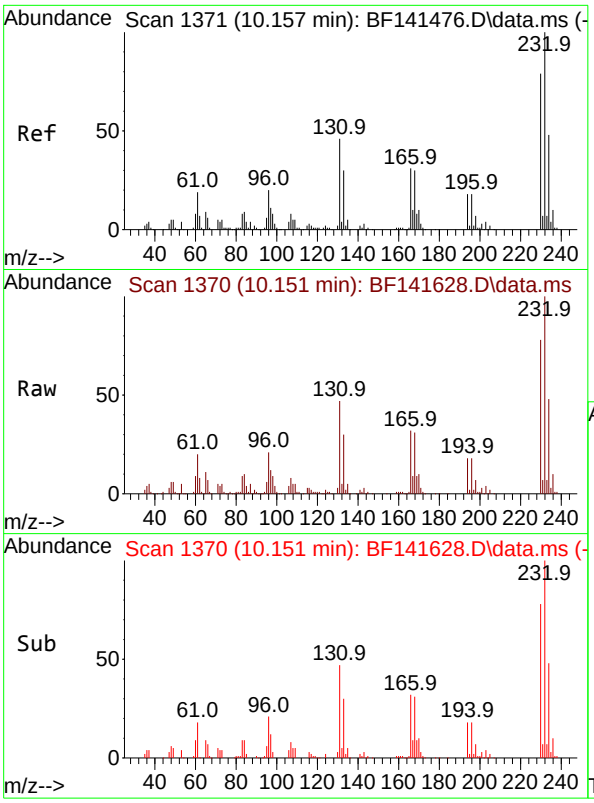


#58
Fluorene
Concen: 39.235 ng
RT: 10.374 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:166 Resp: 568578

Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.2	117.2
167	13.3	10.7	16.1



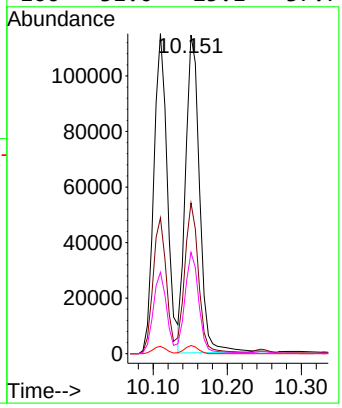


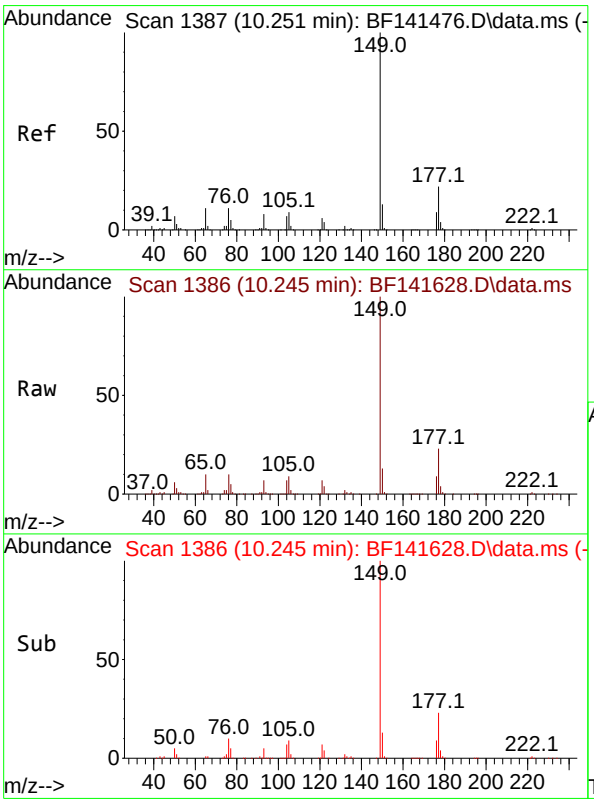
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.916 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 151230

Ion	Ratio	Lower	Upper
232	100		
131	47.3	39.2	58.8
130	2.5	2.1	3.1
166	31.0	25.1	37.7

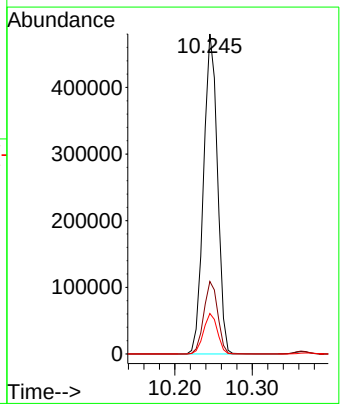


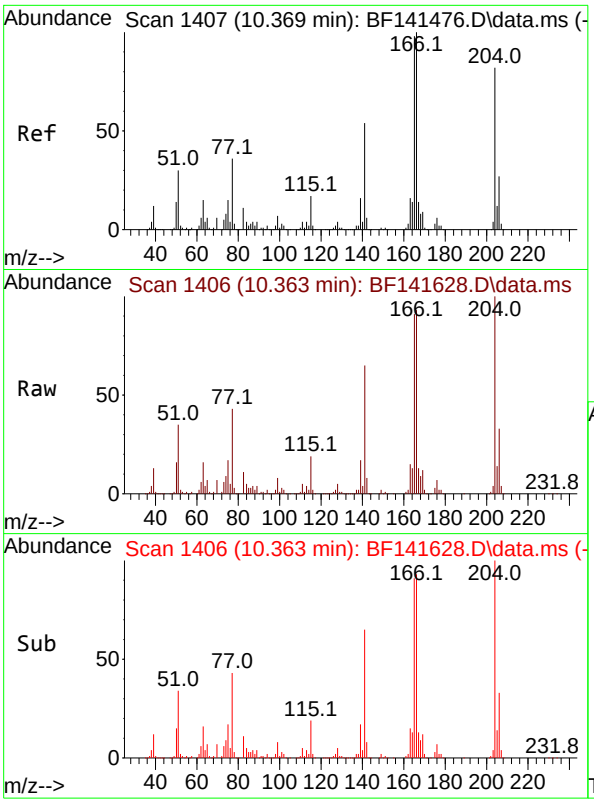


#60
Diethylphthalate
Concen: 40.234 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:149 Resp: 598567

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.6
150	12.6	10.1	15.1



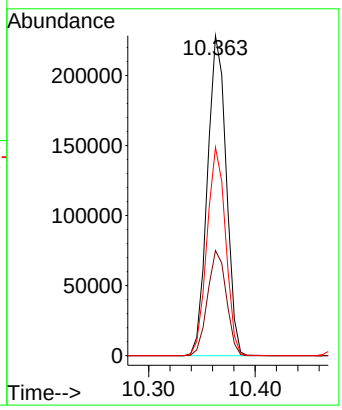


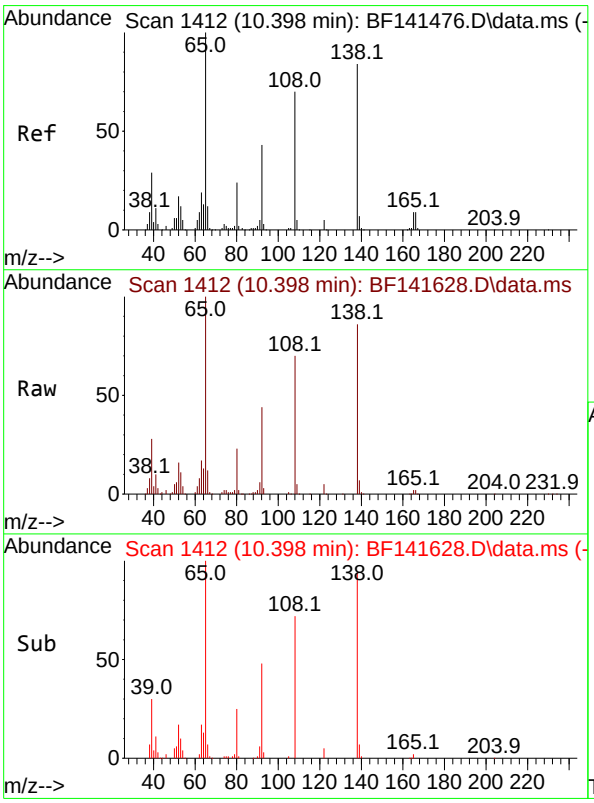
#61
4-Chlorophenyl-phenylether
Concen: 40.088 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 279478

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.6	40.0
141	65.1	51.9	77.9

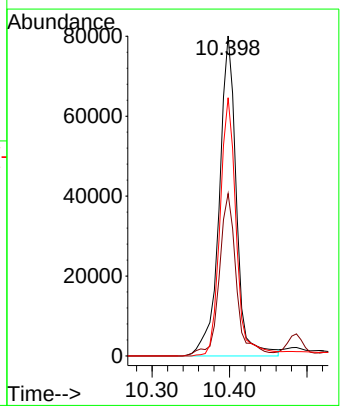


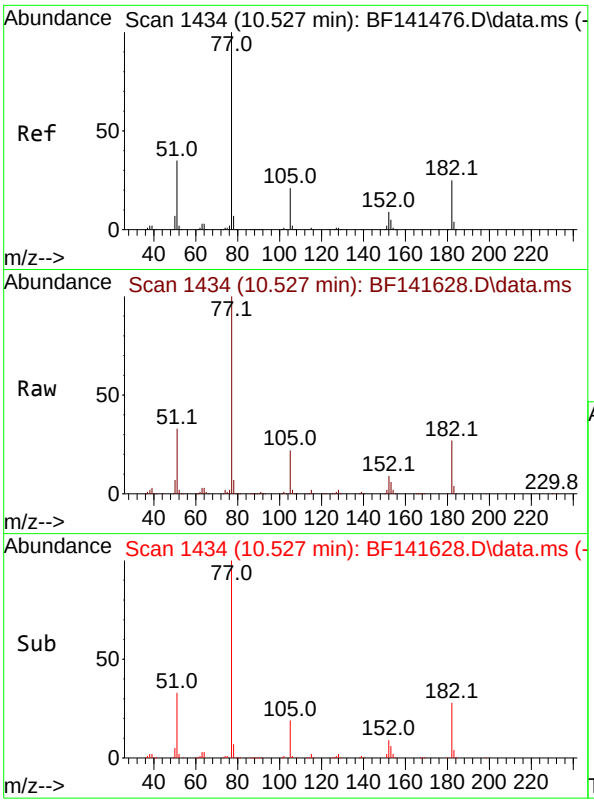


#62
4-Nitroaniline
Concen: 34.138 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:138 Resp: 123326

Ion	Ratio	Lower	Upper
138	100		
92	50.7	31.3	71.3
108	80.7	63.7	103.7



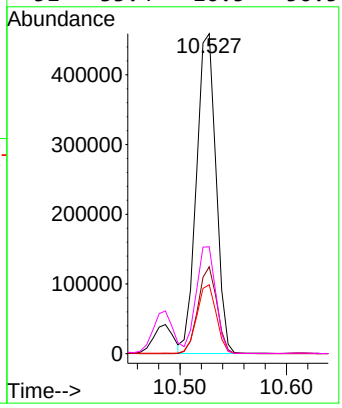


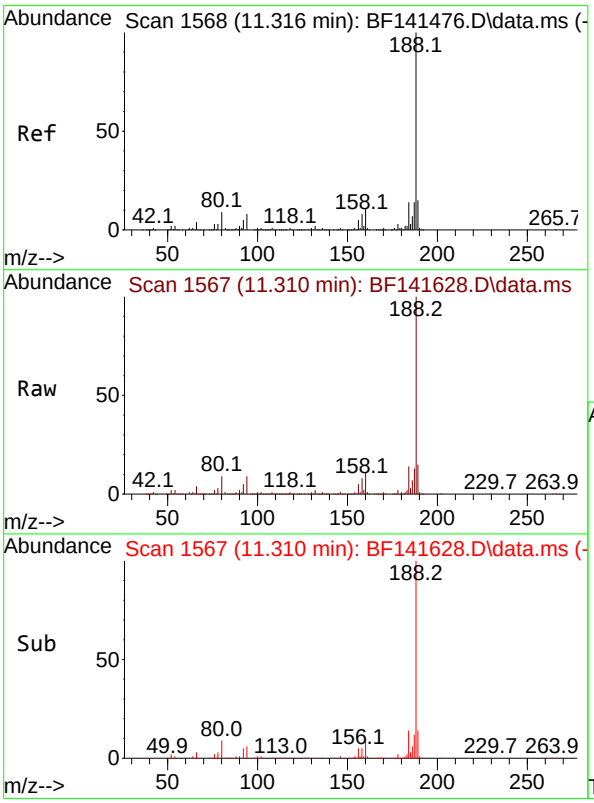
#63
Azobenzene
Concen: 39.649 ng
RT: 10.527 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 586409

Ion	Ratio	Lower	Upper
77	100		
182	27.1	4.7	44.7
105	21.6	0.4	40.4
51	33.4	16.5	56.5

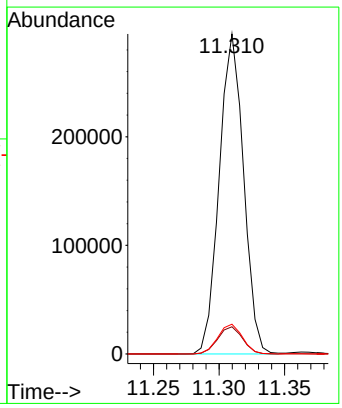


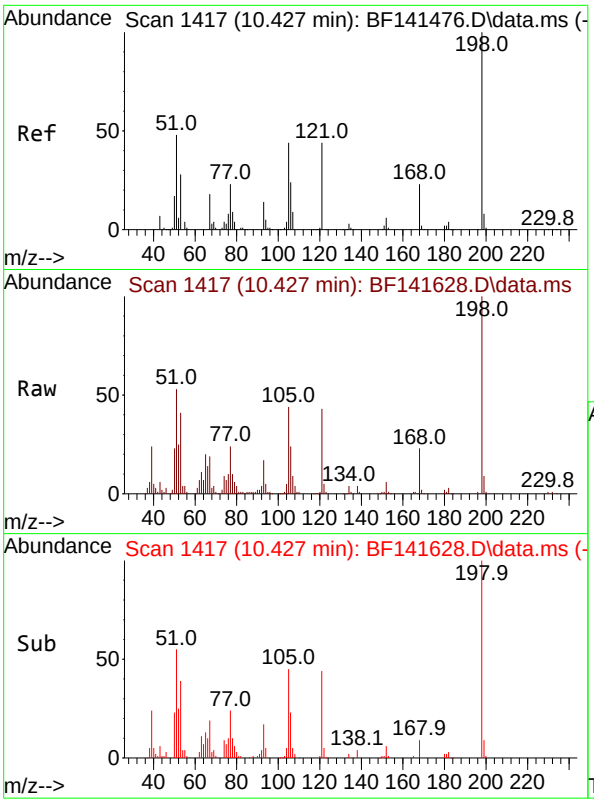


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:188 Resp: 379641

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.3	7.3	10.9



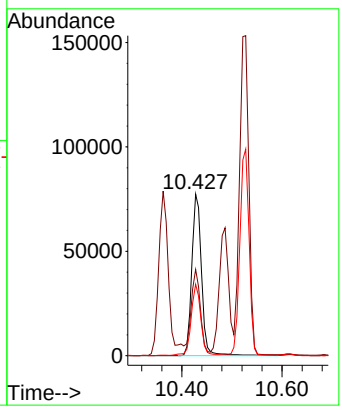


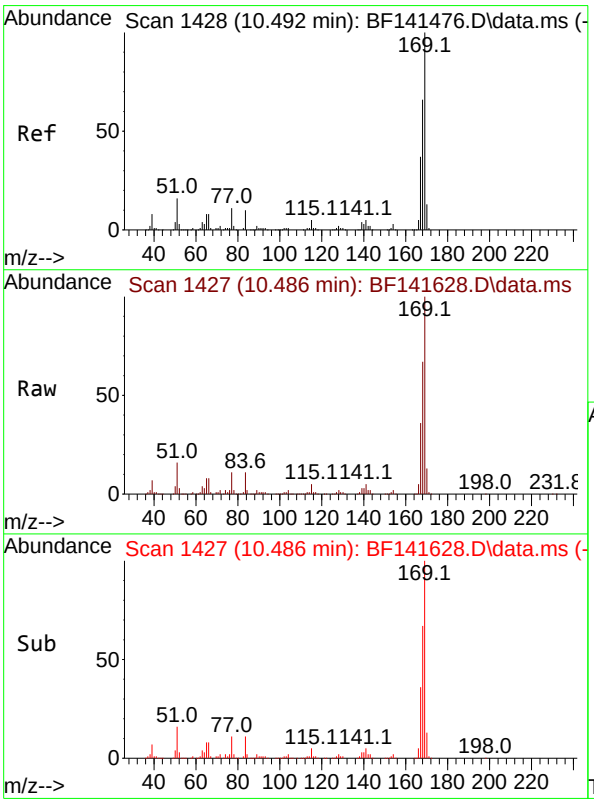
#65
4,6-Dinitro-2-methylphenol
Concen: 39.480 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 104117

Ion	Ratio	Lower	Upper
198	100		
51	53.4	37.4	77.4
105	44.2	25.2	65.2

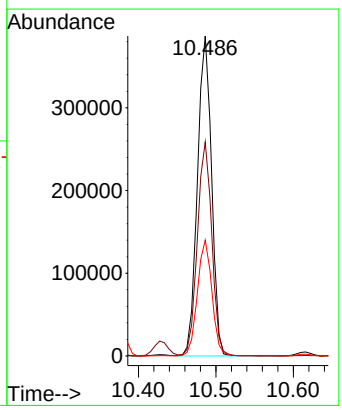


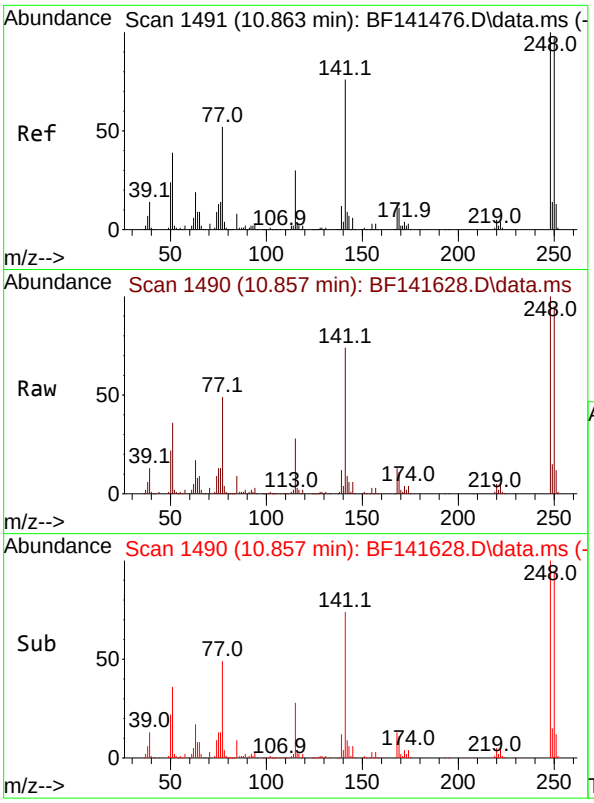


#66
n-Nitrosodiphenylamine
Concen: 40.289 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:169 Resp: 489614

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.3	79.9
167	36.2	29.4	44.2



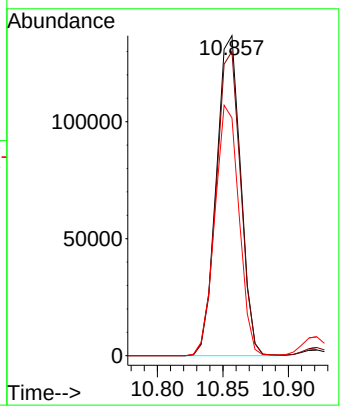


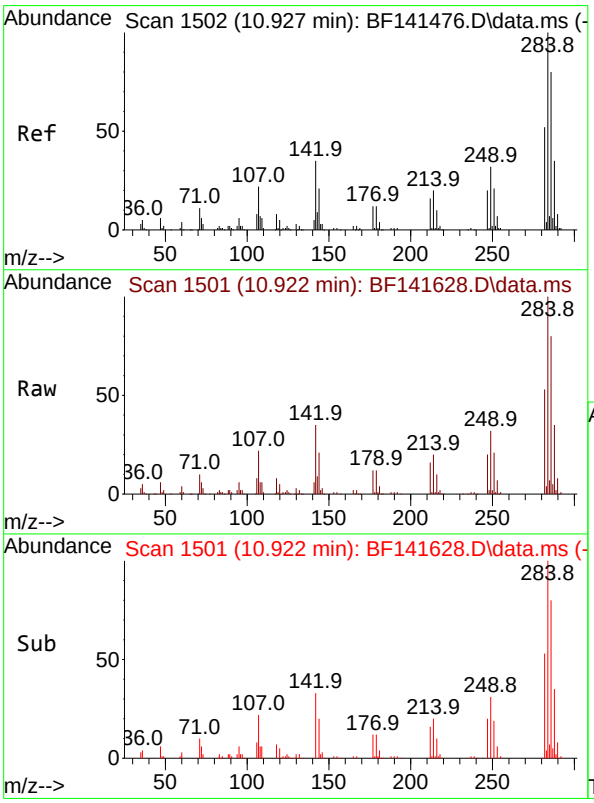
#67
4-Bromophenyl-phenylether
Concen: 41.462 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 175921

Ion	Ratio	Lower	Upper
248	100		
250	95.0	77.8	116.6
141	74.3	60.6	90.8

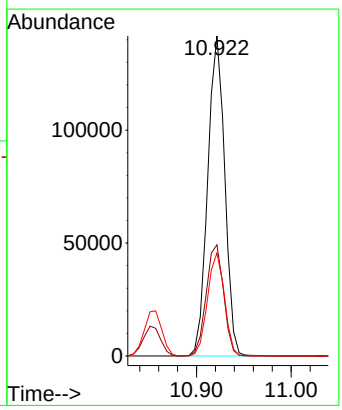


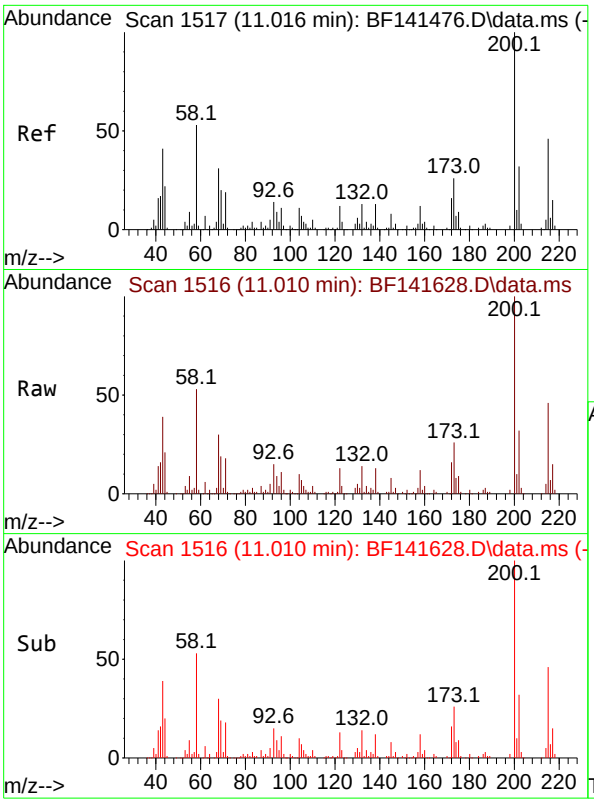


#68
Hexachlorobenzene
Concen: 40.565 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:284 Resp: 177235

Ion	Ratio	Lower	Upper
284	100		
142	34.8	28.0	42.0
249	32.2	25.8	38.8



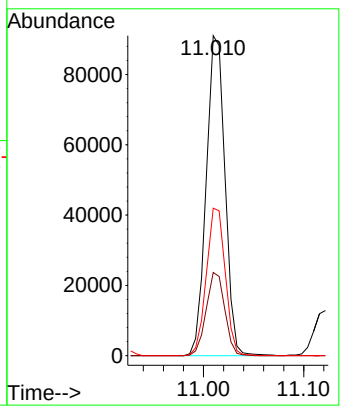


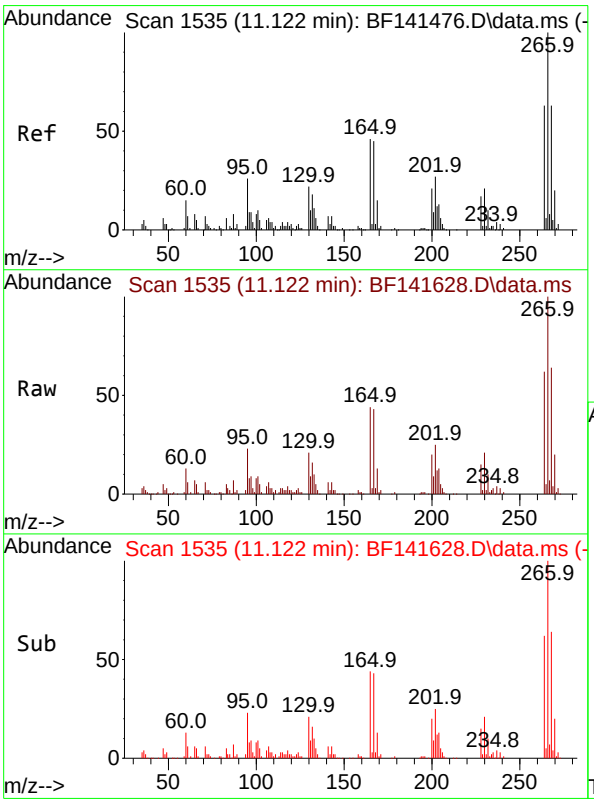
#69
Atrazine
Concen: 32.575 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 118764

Ion	Ratio	Lower	Upper
200	100		
173	26.0	5.9	45.9
215	46.1	25.9	65.9

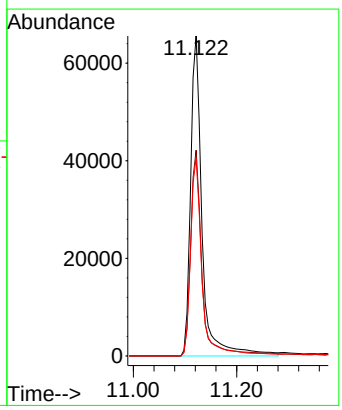


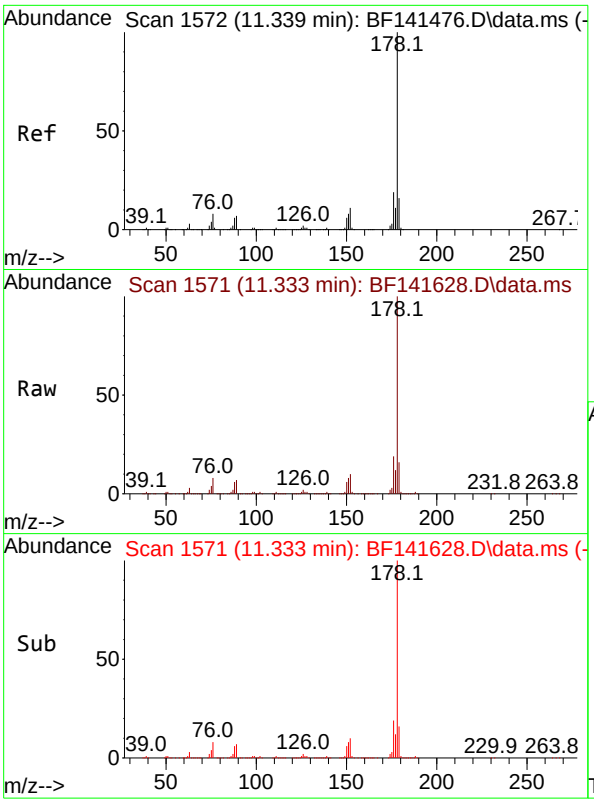


#70
Pentachlorophenol
Concen: 36.339 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:266 Resp: 101520

Ion	Ratio	Lower	Upper
266	100		
268	64.3	50.1	75.1
264	61.9	50.1	75.1



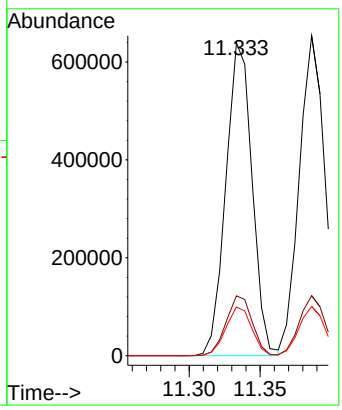


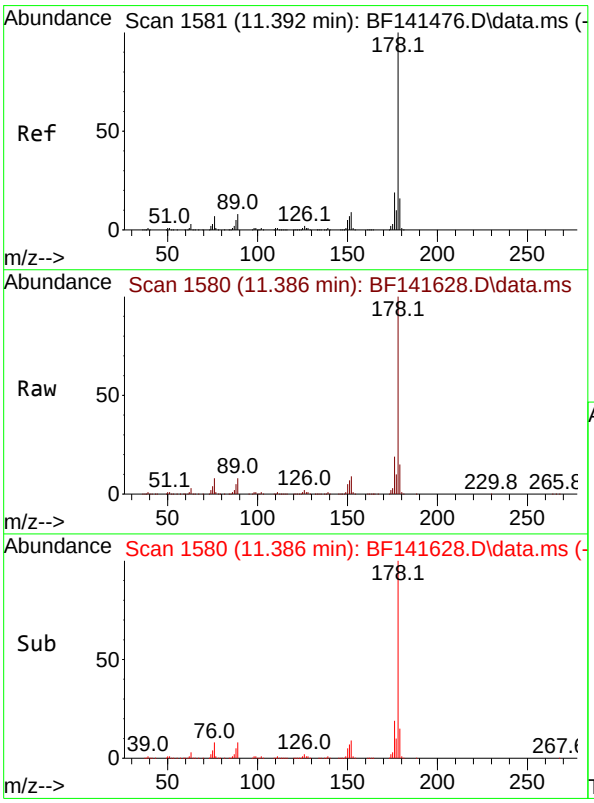
#71
Phenanthrene
Concen: 39.360 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 822531

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.5	12.4	18.6

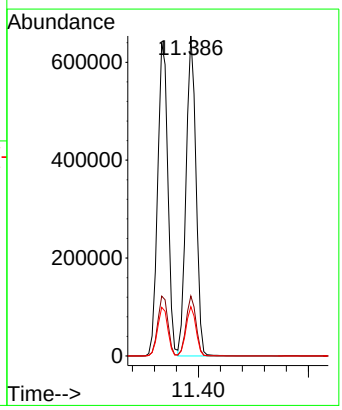


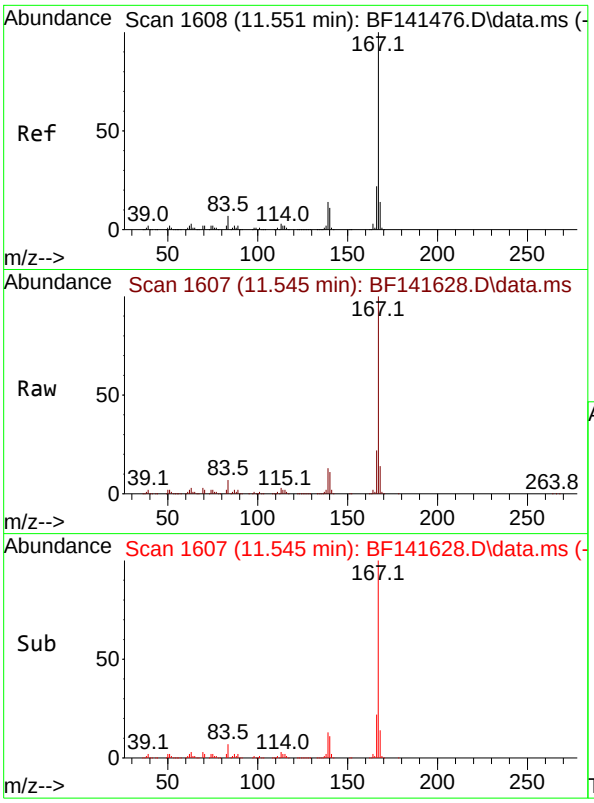


#72
Anthracene
Concen: 38.955 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:178 Resp: 818329

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.8	22.2
179	15.4	12.4	18.6



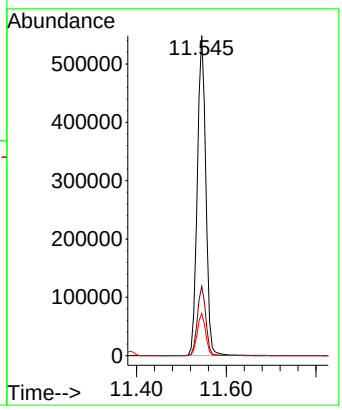


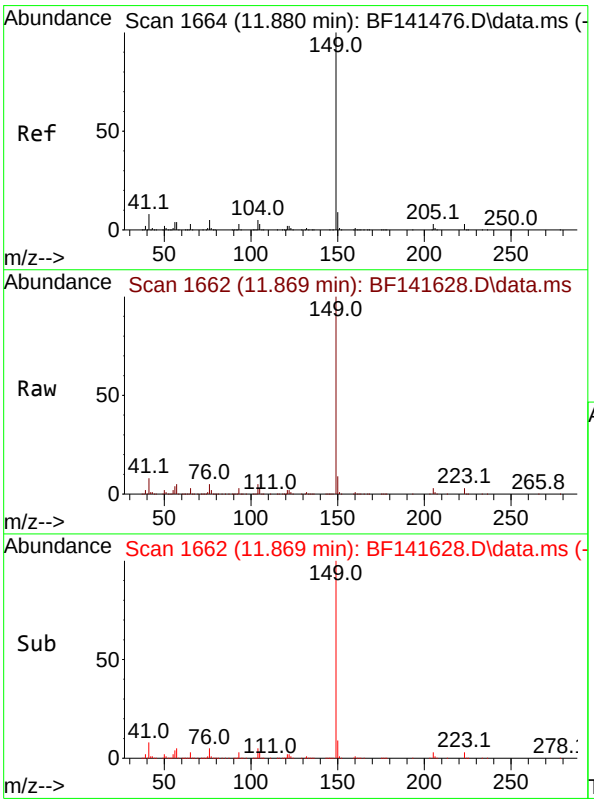
#73
Carbazole
Concen: 38.171 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 721508

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.2	10.9	16.3

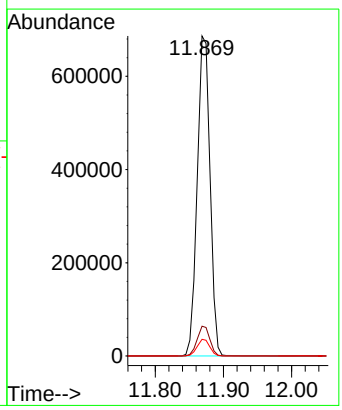


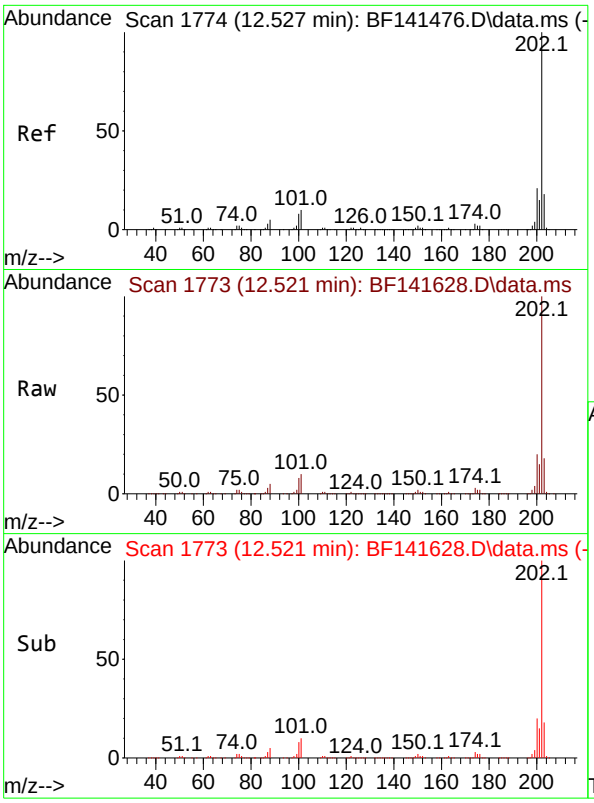


#74
Di-n-butylphthalate
Concen: 40.904 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:149 Resp: 892760

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.2	4.2	6.2



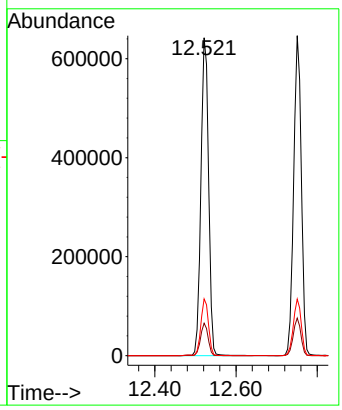


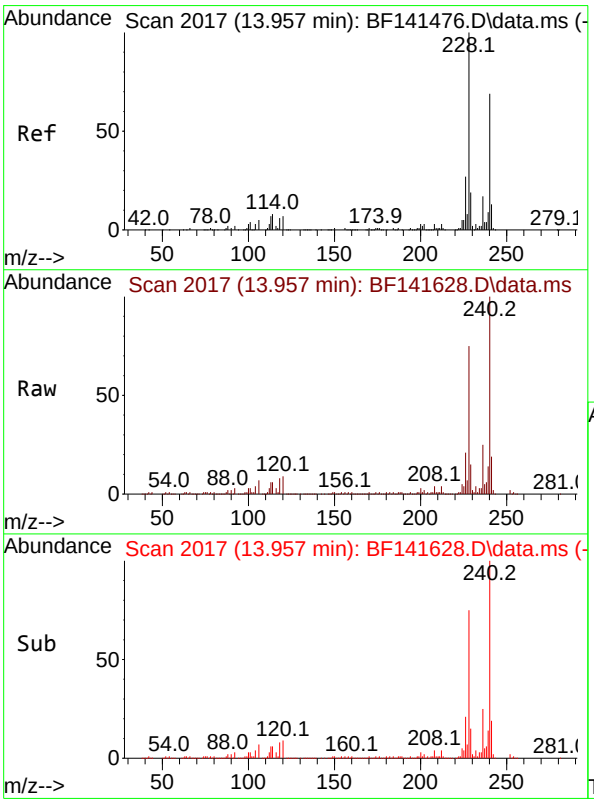
#75
Fluoranthene
Concen: 38.098 ng
RT: 12.521 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 844082

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.9	0.0	37.6

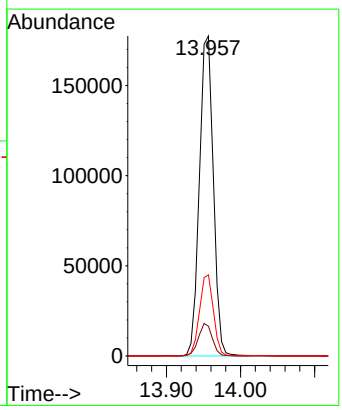


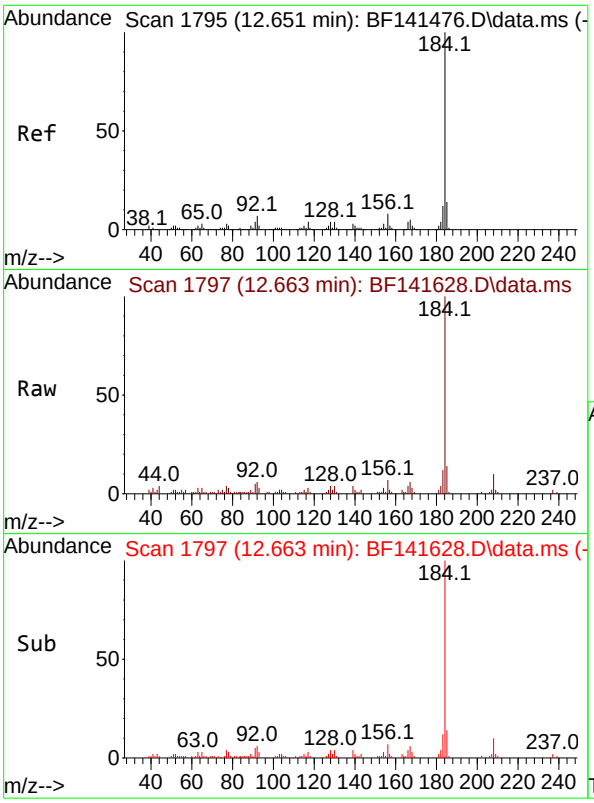


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:240 Resp: 232432

Ion	Ratio	Lower	Upper
240	100		
120	9.3	8.0	12.0
236	25.3	19.8	29.8



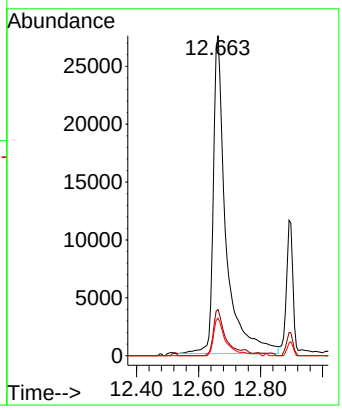


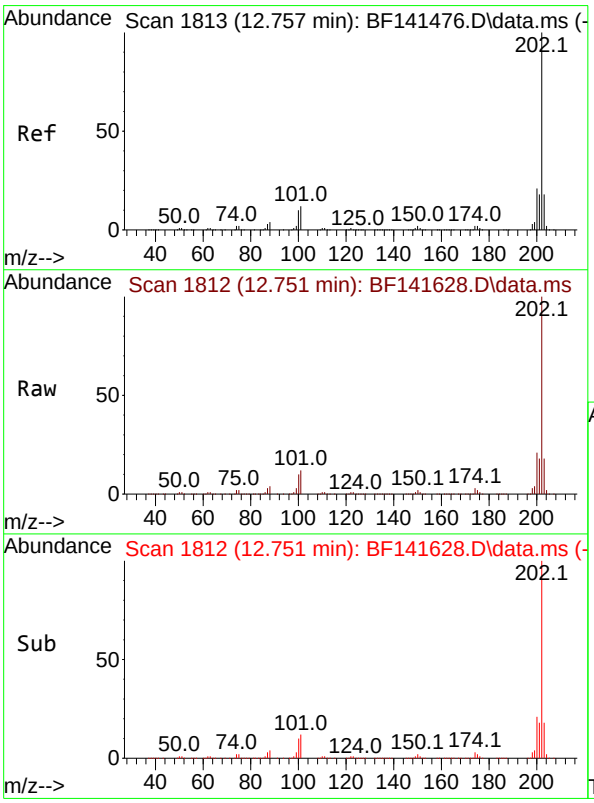
#77
Benzidine
Concen: 15.278 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 78319

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.3	16.9
183	11.7	9.3	13.9

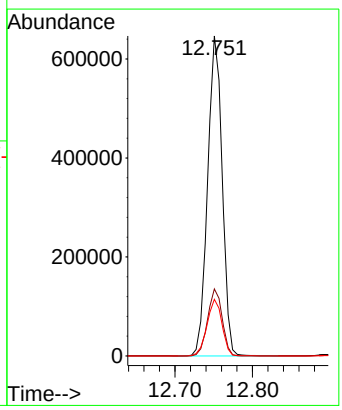


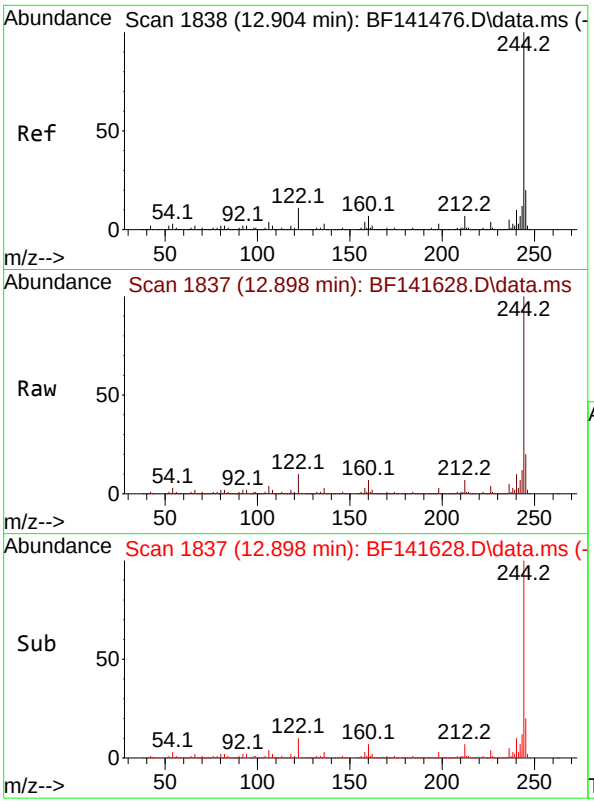


#78
Pyrene
Concen: 42.598 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:202 Resp: 842862

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.7	14.3	21.5



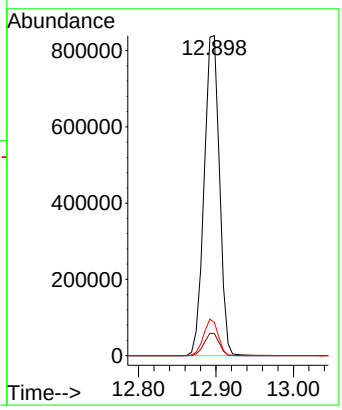


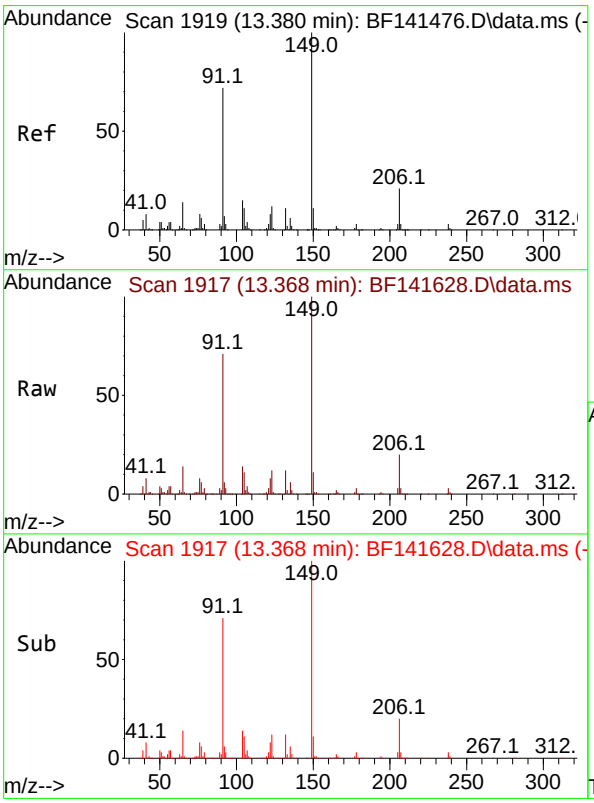
#79
Terphenyl-d14
Concen: 83.620 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1151308

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.4	8.4	12.6

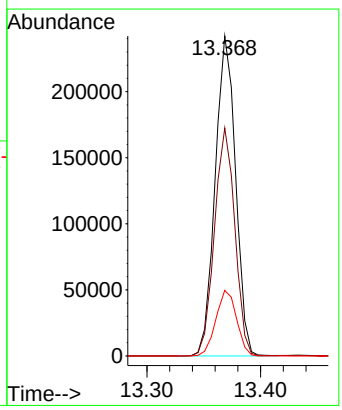


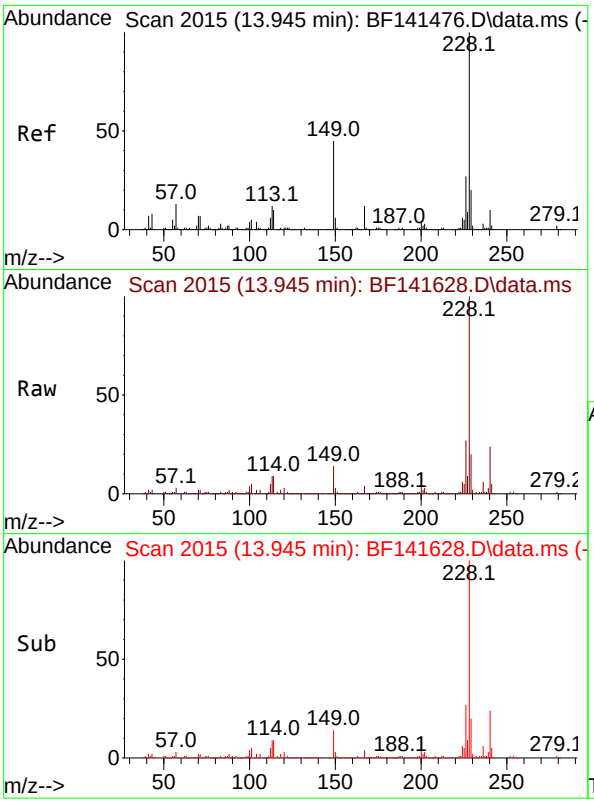


#80
Butylbenzylphthalate
Concen: 44.150 ng
RT: 13.368 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:149 Resp: 302575

Ion	Ratio	Lower	Upper
149	100		
91	71.3	57.8	86.8
206	20.5	16.7	25.1



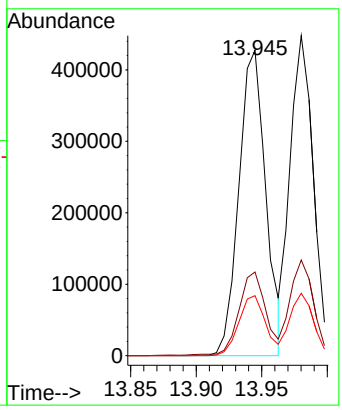


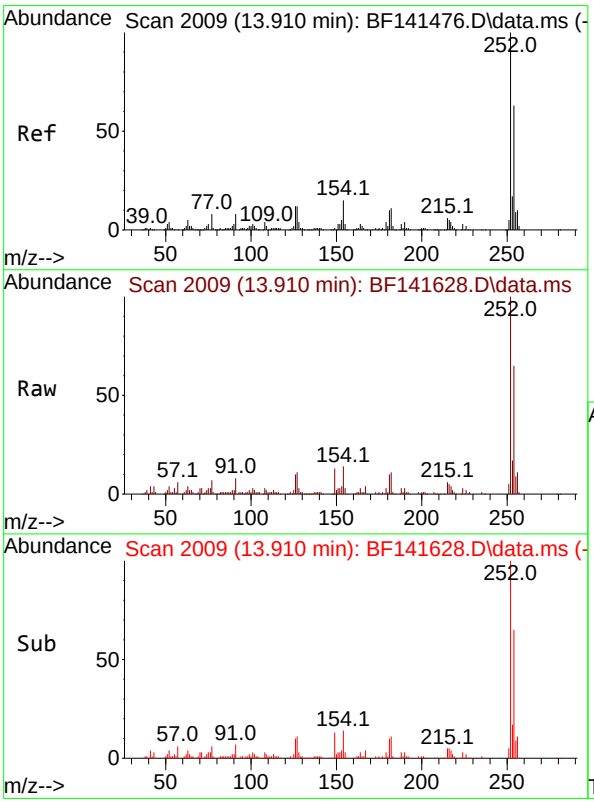
#81
Benzo(a)anthracene
Concen: 39.478 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 609957

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	19.6	15.8	23.6

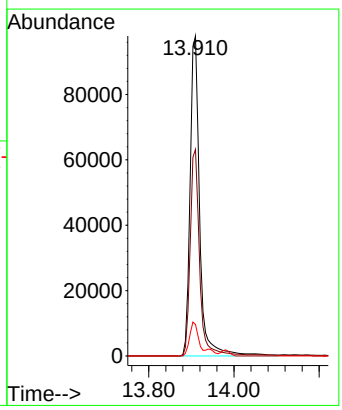


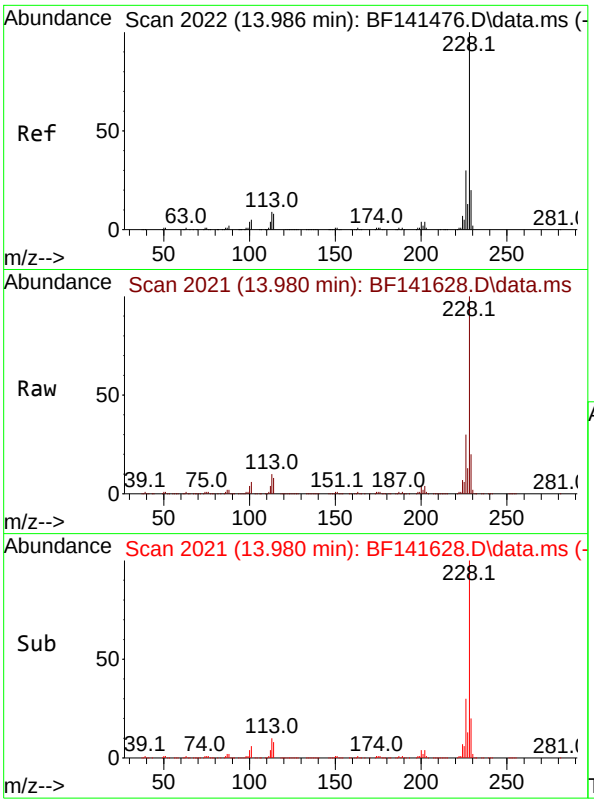


#82
3,3'-Dichlorobenzidine
Concen: 34.594 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:252 Resp: 153111

Ion	Ratio	Lower	Upper
252	100		
254	64.5	50.6	76.0
126	9.9	9.3	13.9



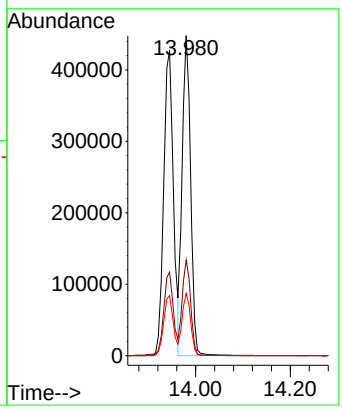


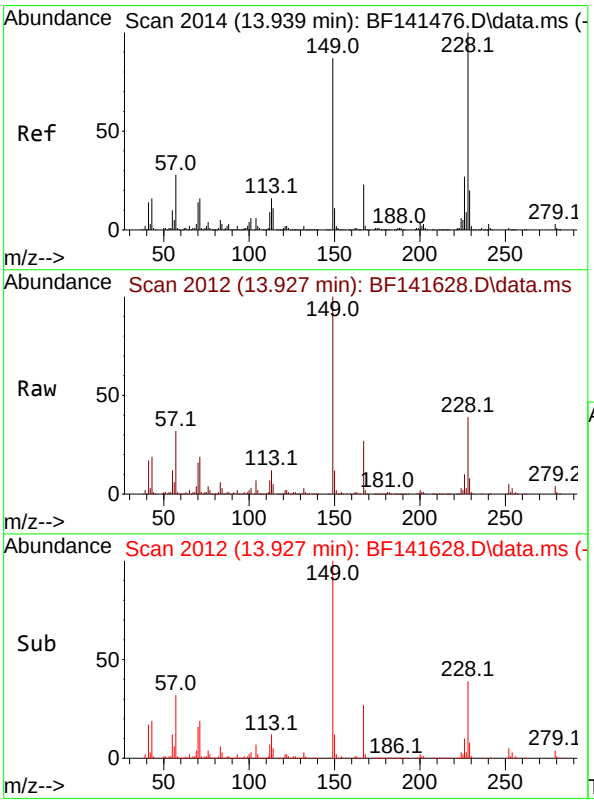
#83
Chrysene
Concen: 39.085 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 557596

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.0	36.0
229	19.5	15.7	23.5

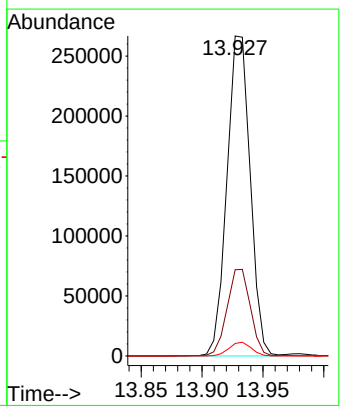


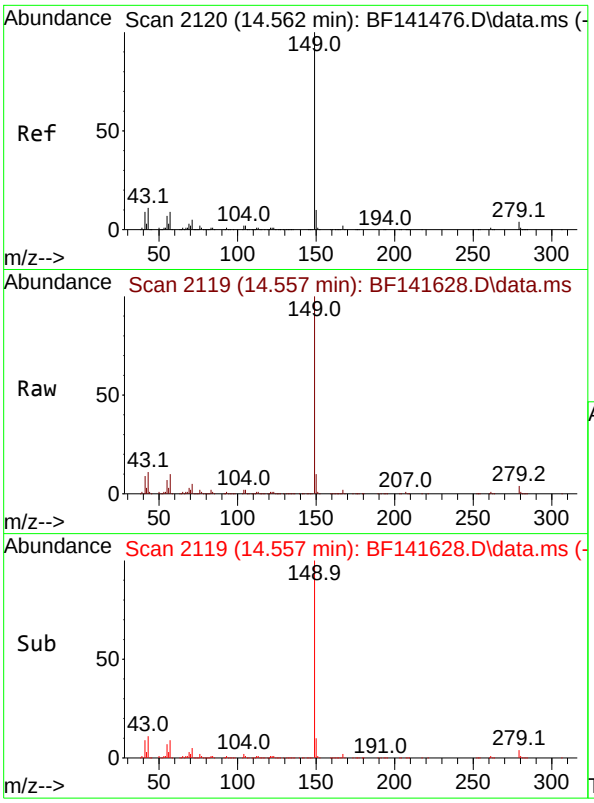


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.030 ng
RT: 13.927 min Scan# 2012
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:149 Resp: 355788

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.0
279	3.9	3.1	4.7



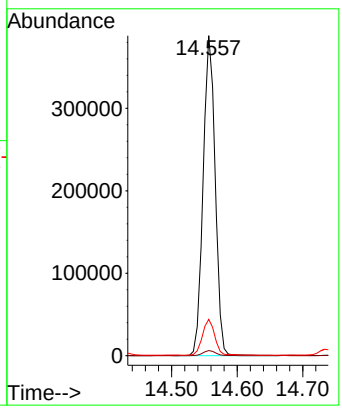


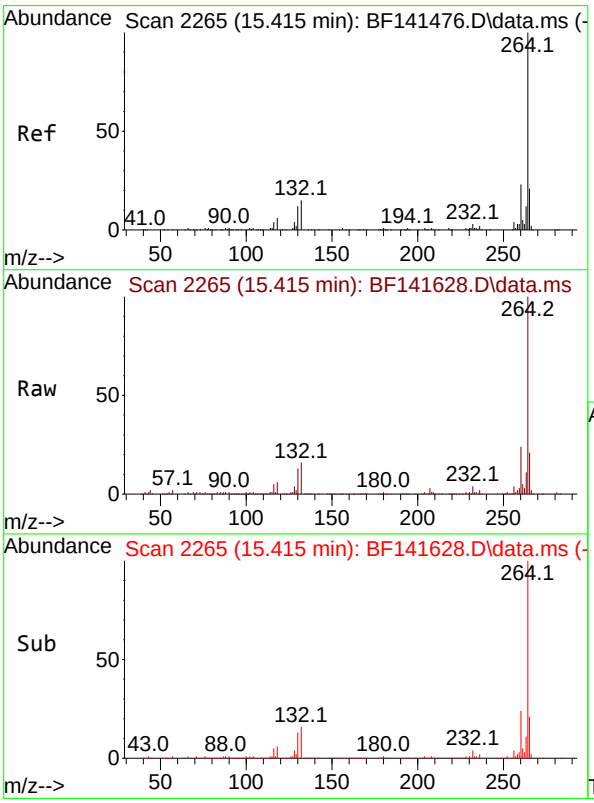
#85
Di-n-octyl phthalate
Concen: 45.155 ng
RT: 14.557 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 497916

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	11.4	9.5	14.3

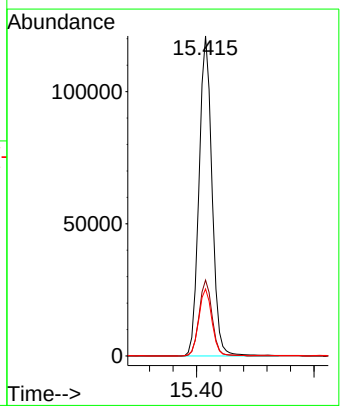


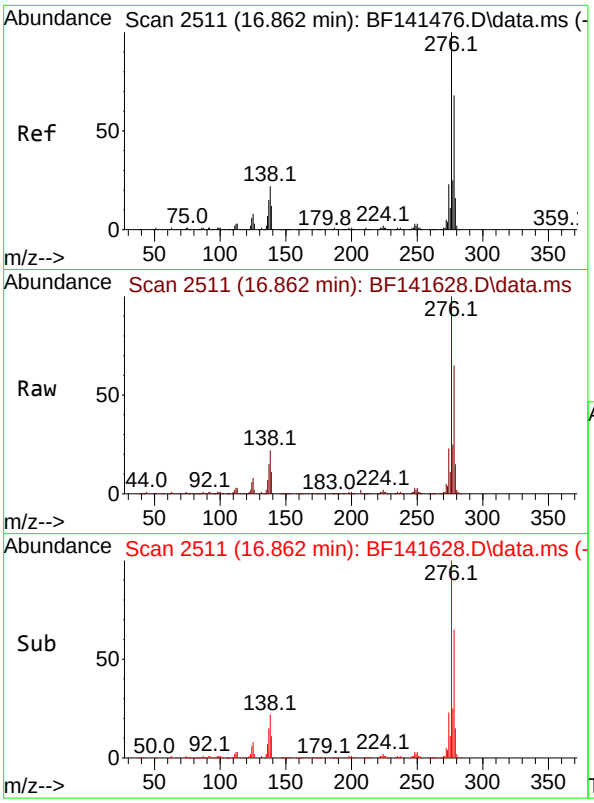


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:264 Resp: 185535

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	28.0
265	20.9	17.0	25.4



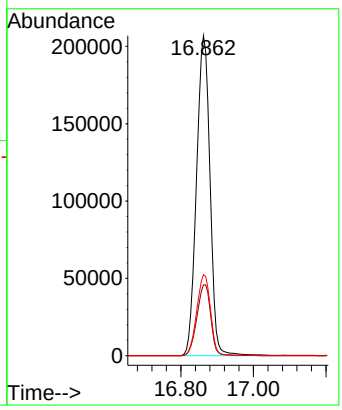


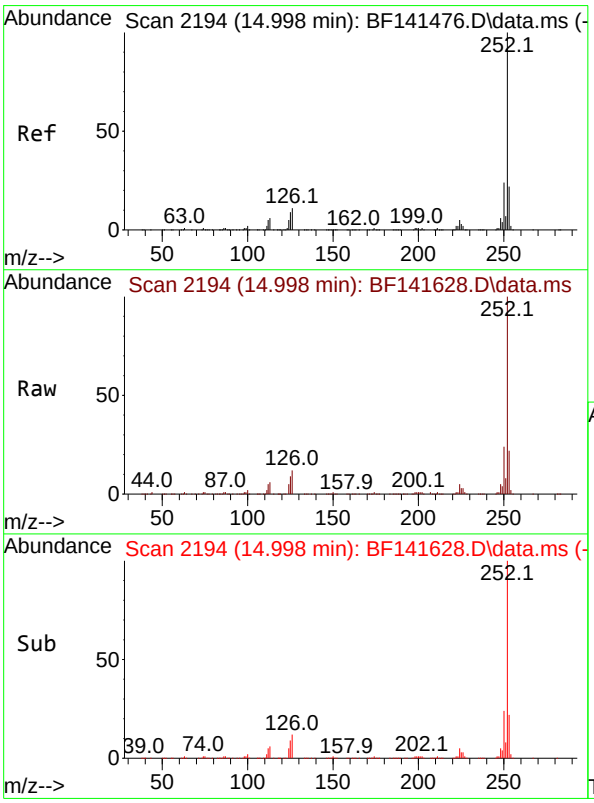
#87
Indeno(1,2,3-cd)pyrene
Concen: 46.650 ng
RT: 16.862 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 534795

Ion	Ratio	Lower	Upper
276	100		
138	22.6	18.0	27.0
277	25.8	20.4	30.6

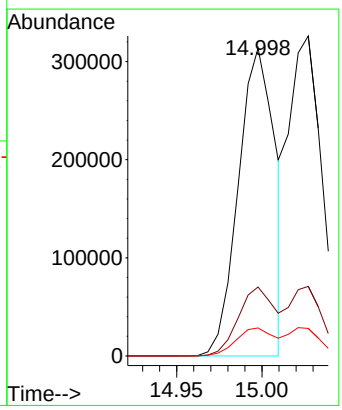


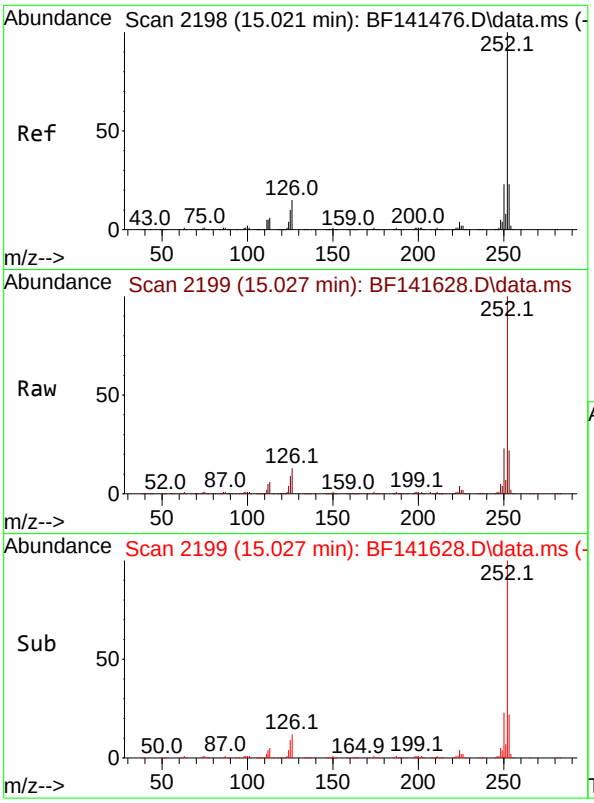


#88
Benzo(b)fluoranthene
Concen: 37.504 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:252 Resp: 467218

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	9.1	7.0	10.6



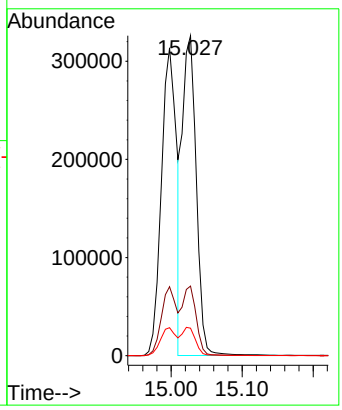


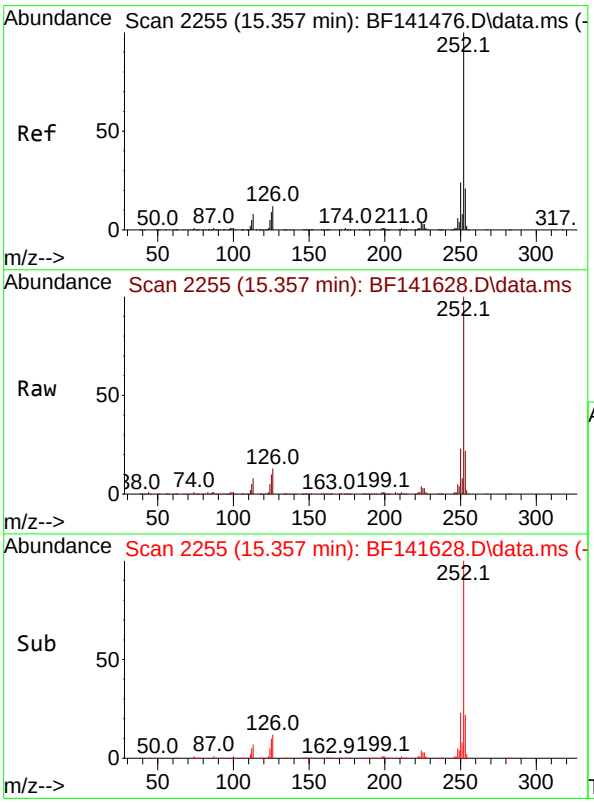
#89
Benzo(k)fluoranthene
Concen: 41.684 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 443427

Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.0	27.0
125	8.6	7.4	11.0

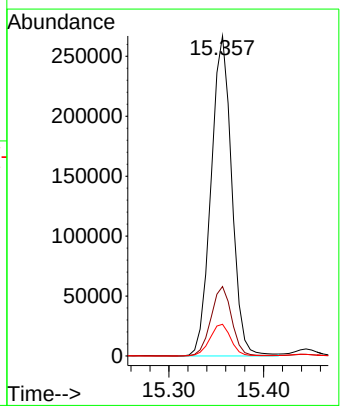


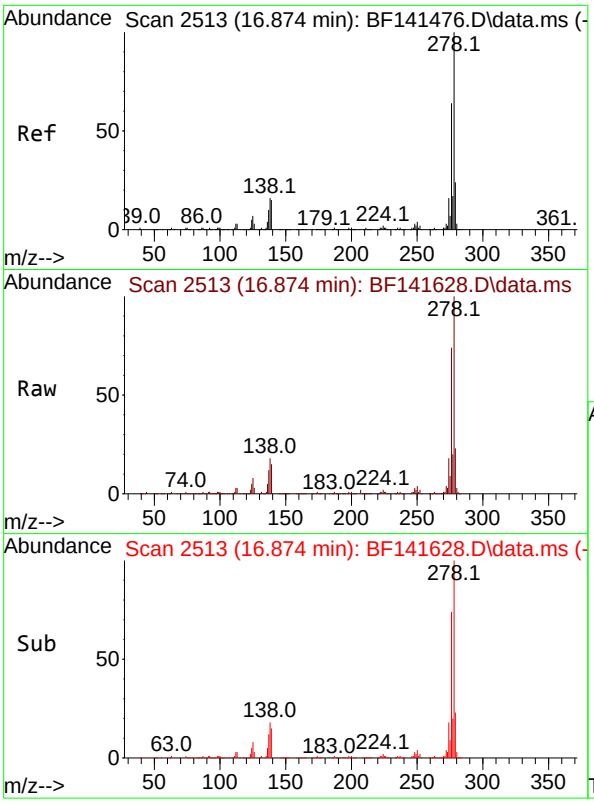


#90
Benzo(a)pyrene
Concen: 40.130 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:252 Resp: 404529

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	9.9	7.4	11.2



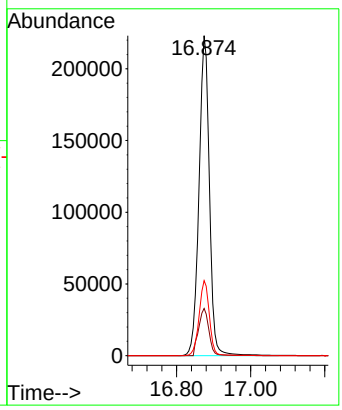


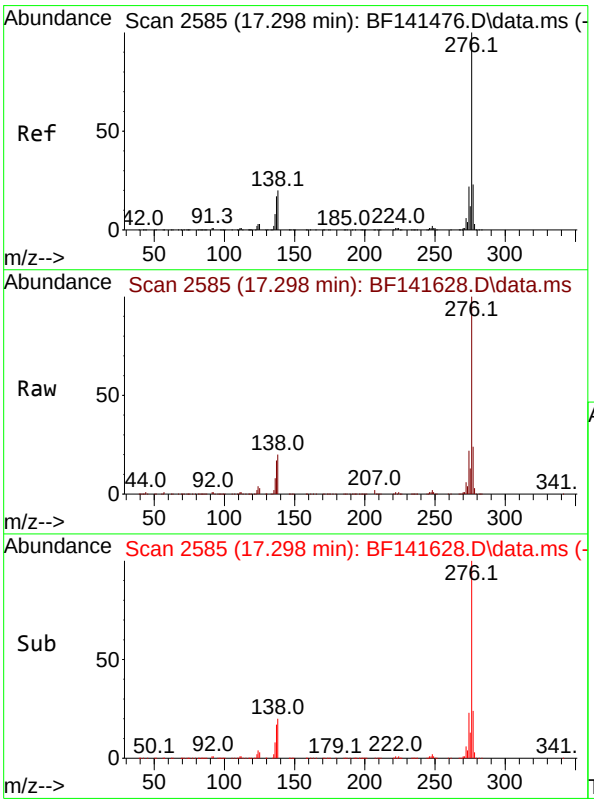
#91
Dibenzo(a,h)anthracene
Concen: 46.693 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 433742

Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.8	17.6
279	23.5	19.1	28.7

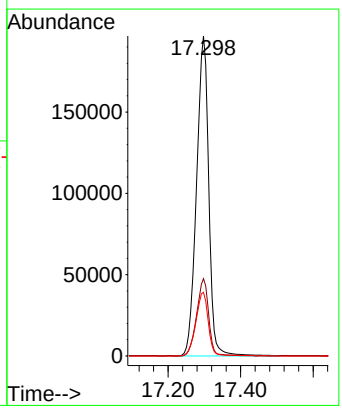




#92
Benzo(g,h,i)perylene
Concen: 47.360 ng
RT: 17.298 min Scan# 2585
Delta R.T. -0.018 min
Lab File: BF141628.D
Acq: 14 Feb 2025 09:45

Tgt Ion:276 Resp: 460371

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.6	28.0
138	19.9	15.9	23.9



Sample Results: **BF141628.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
2		1,4-Dioxane	0.513	0.505	1.6	113	0.00
3		Pyridine	1.222	1.171	4.2	107	-0.01
4		n-Nitrosodimethylamine	0.809	0.747	7.7	106	-0.02
5	S	2-Fluorophenol	1.276	1.279	-0.2	115	0.00
6		Aniline	1.513	1.166	22.9	88	0.00
7	S	Phenol-d6	1.612	1.573	2.4	113	0.00
8		2-Chlorophenol	1.378	1.380	-0.1	116	0.00
9		Benzaldehyde	0.857	1.045	-21.9	147	0.00
10	C	Phenol	1.678	1.622	3.3	112	-0.01
11		bis(2-Chloroethyl)ether	1.261	1.255	0.5	115	0.00
12		1,3-Dichlorobenzene	1.455	1.470	-1.0	118	0.00
13	C	1,4-Dichlorobenzene	1.487	1.488	-0.1	117	0.00
14		1,2-Dichlorobenzene	1.380	1.389	-0.7	117	0.00
15		Benzyl Alcohol	1.236	1.167	5.6	107	0.00
16		2,2'-oxybis(1-Chloropropane	2.158	2.028	6.0	109	0.00
17		2-Methylphenol	1.079	1.058	1.9	114	0.00
18		Hexachloroethane	0.550	0.557	-1.3	117	0.00
19	P	n-Nitroso-di-n-propylamine	0.964	0.946	1.9	113	-0.01
20		3+4-Methylphenols	1.371	1.341	2.2	113	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	116	0.00
22		Acetophenone	0.498	0.483	3.0	114	-0.01
23	S	Nitrobenzene-d5	0.383	0.368	3.9	111	0.00
24		Nitrobenzene	0.374	0.362	3.2	113	0.00
25		Isophorone	0.611	0.597	2.3	114	-0.01
26	C	2-Nitrophenol	0.186	0.187	-0.5	113	0.00
27		2,4-Dimethylphenol	0.217	0.219	-0.9	114	0.00
28		bis(2-Chloroethoxy)methane	0.392	0.392	0.0	116	0.00
29	C	2,4-Dichlorophenol	0.294	0.300	-2.0	118	0.00
30		1,2,4-Trichlorobenzene	0.320	0.317	0.9	116	0.00
31		Naphthalene	1.041	1.025	1.5	115	0.00
32		Benzoic acid	0.226	0.199	11.9	101	-0.02
33		4-Chloroaniline	0.363	0.315	13.2	101	-0.01
34	C	Hexachlorobutadiene	0.192	0.192	0.0	116	0.00
35		Caprolactam	0.089	0.089	0.0	112	-0.02
36	C	4-Chloro-3-methylphenol	0.325	0.318	2.2	112	0.00
37		2-Methylnaphthalene	0.677	0.670	1.0	116	0.00
38		1-Methylnaphthalene	0.656	0.643	2.0	114	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	115	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.579	0.583	-0.7	115	0.00
41	P	Hexachlorocyclopentadiene	0.192	0.170	11.5	96	0.00
42	S	2,4,6-Tribromophenol	0.201	0.199	1.0	114	-0.01
43	C	2,4,6-Trichlorophenol	0.374	0.370	1.1	113	0.00
44		2,4,5-Trichlorophenol	0.405	0.398	1.7	112	0.00
45	S	2-Fluorobiphenyl	1.298	1.280	1.4	116	0.00
46		1,1'-Biphenyl	1.551	1.549	0.1	115	-0.01
47		2-Chloronaphthalene	1.147	1.134	1.1	115	0.00

Sample Results: **BF141628.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.385	0.368	4.4	109	0.00
49		Acenaphthylene	1.705	1.663	2.5	113	0.00
50		Dimethylphthalate	1.358	1.359	-0.1	116	-0.01
51		2,6-Dinitrotoluene	0.297	0.297	0.0	114	0.00
52	C	Acenaphthene	1.147	1.104	3.7	110	-0.01
53		3-Nitroaniline	0.319	0.305	4.4	110	0.00
54	P	2,4-Dinitrophenol	0.176	0.166	5.7	108	0.00
55		Dibenzofuran	1.683	1.658	1.5	114	-0.01
56	P	4-Nitrophenol	0.237	0.203	14.3	94	0.00
57		2,4-Dinitrotoluene	0.395	0.392	0.8	113	0.00
58		Fluorene	1.301	1.276	1.9	114	0.00
59		2,3,4,6-Tetrachlorophenol	0.349	0.339	2.9	112	-0.01
60		Diethylphthalate	1.336	1.344	-0.6	116	-0.01
61		4-Chlorophenyl-phenylether	0.626	0.627	-0.2	116	-0.01
62		4-Nitroaniline	0.324	0.277	14.5	95	-0.02
63		Azobenzene	1.328	1.316	0.9	114	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	113	0.00
65		4,6-Dinitro-2-methylphenol	0.139	0.137	1.4	109	-0.01
66	c	n-Nitrosodiphenylamine	0.640	0.645	-0.8	116	-0.01
67		4-Bromophenyl-phenylether	0.224	0.232	-3.6	118	0.00
68		Hexachlorobenzene	0.230	0.233	-1.3	116	0.00
69		Atrazine	0.192	0.156	18.8	95	-0.01
70	C	Pentachlorophenol	0.147	0.134	8.8	98	0.00
71		Phenanthrene	1.101	1.083	1.6	113	-0.01
72		Anthracene	1.107	1.078	2.6	112	-0.01
73		Carbazole	0.996	0.950	4.6	109	0.00
74		Di-n-butylphthalate	1.150	1.176	-2.3	116	-0.01
75	C	Fluoranthene	1.167	1.112	4.7	109	-0.01
76	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
77		Benzidine	0.441	0.168	61.9#	33#	0.00
78		Pyrene	1.703	1.813	-6.5	107	-0.01
79	S	Terphenyl-d14	1.185	1.238	-4.5	107	0.00
80		Butylbenzylphthalate	0.590	0.651	-10.3	110	-0.01
81		Benzo(a)anthracene	1.329	1.312	1.3	101	0.00
82		3,3'-Dichlorobenzidine	0.381	0.329	13.6	90	0.00
83		Chrysene	1.228	1.199	2.4	103	-0.01
84		Bis(2-ethylhexyl)phthalate	0.665	0.765	-15.0	115	-0.01
85	c	Di-n-octyl phthalate	0.949	1.071	-12.9	114	0.00
86	I	Perylene-d12	1.000	1.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	1.236	1.441	-16.6	113	-0.01
88		Benzo(b)fluoranthene	1.343	1.259	6.3	96	0.00
89		Benzo(k)fluoranthene	1.147	1.195	-4.2	106	0.00
90	C	Benzo(a)pyrene	1.087	1.090	-0.3	102	0.00
91		Dibenzo(a,h)anthracene	1.001	1.169	-16.8	113	-0.02
92		Benzo(g,h,i)perylene	1.048	1.241	-18.4	114	-0.02

Sample Results: **BF141628.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF141628.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	116	0.00
2		1,4-Dioxane	40.000	39.379	1.6	113	0.00
3		Pyridine	40.000	38.339	4.2	107	-0.01
4		n-Nitrosodimethylamine	40.000	36.927	7.7	106	-0.02
5	S	2-Fluorophenol	80.000	80.185	-0.2	115	0.00
6		Aniline	40.000	30.844	22.9	88	0.00
7	S	Phenol-d6	80.000	78.049	2.4	113	0.00
8		2-Chlorophenol	40.000	40.046	-0.1	116	0.00
9		Benzaldehyde	40.000	48.777	-21.9	147	0.00
10	C	Phenol	40.000	38.665	3.3	112	-0.01
11		bis(2-Chloroethyl)ether	40.000	39.822	0.4	115	0.00
12		1,3-Dichlorobenzene	40.000	40.412	-1.0	118	0.00
13	C	1,4-Dichlorobenzene	40.000	40.027	-0.1	117	0.00
14		1,2-Dichlorobenzene	40.000	40.261	-0.7	117	0.00
15		Benzyl Alcohol	40.000	37.752	5.6	107	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.589	6.0	109	0.00
17		2-Methylphenol	40.000	39.246	1.9	114	0.00
18		Hexachloroethane	40.000	40.455	-1.1	117	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.230	1.9	113	-0.01
20		3+4-Methylphenols	40.000	39.116	2.2	113	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	116	0.00
22		Acetophenone	40.000	38.865	2.8	114	-0.01
23	S	Nitrobenzene-d5	80.000	76.691	4.1	111	0.00
24		Nitrobenzene	40.000	38.767	3.1	113	0.00
25		Isophorone	40.000	39.083	2.3	114	-0.01
26	C	2-Nitrophenol	40.000	40.313	-0.8	113	0.00
27		2,4-Dimethylphenol	40.000	40.232	-0.6	114	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.055	-0.1	116	0.00
29	C	2,4-Dichlorophenol	40.000	40.820	-2.1	118	0.00
30		1,2,4-Trichlorobenzene	40.000	39.654	0.9	116	0.00
31		Naphthalene	40.000	39.370	1.6	115	0.00
32		Benzoic acid	40.000	35.300	11.8	101	-0.02
33		4-Chloroaniline	40.000	34.648	13.4	101	-0.01
34	C	Hexachlorobutadiene	40.000	40.028	-0.1	116	0.00
35		Caprolactam	40.000	39.867	0.3	112	-0.02
36	C	4-Chloro-3-methylphenol	40.000	39.105	2.2	112	0.00
37		2-Methylnaphthalene	40.000	39.544	1.1	116	0.00
38		1-Methylnaphthalene	40.000	39.219	2.0	114	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	115	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	40.291	-0.7	115	0.00
41	P	Hexachlorocyclopentadiene	40.000	35.332	11.7	96	0.00
42	S	2,4,6-Tribromophenol	80.000	79.105	1.1	114	-0.01
43	C	2,4,6-Trichlorophenol	40.000	39.585	1.0	113	0.00
44		2,4,5-Trichlorophenol	40.000	39.301	1.7	112	0.00
45	S	2-Fluorobiphenyl	80.000	78.876	1.4	116	0.00
46		1,1'-Biphenyl	40.000	39.956	0.1	115	-0.01
47		2-Chloronaphthalene	40.000	39.566	1.1	115	0.00

Sample Results: **BF141628.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	38.220	4.5	109	0.00
49		Acenaphthylene	40.000	38.997	2.5	113	0.00
50		Dimethylphthalate	40.000	40.024	-0.1	116	-0.01
51		2,6-Dinitrotoluene	40.000	39.958	0.1	114	0.00
52	C	Acenaphthene	40.000	38.533	3.7	110	-0.01
53		3-Nitroaniline	40.000	38.182	4.5	110	0.00
54	P	2,4-Dinitrophenol	40.000	37.673	5.8	108	0.00
55		Dibenzofuran	40.000	39.414	1.5	114	-0.01
56	P	4-Nitrophenol	40.000	34.306	14.2	94	0.00
57		2,4-Dinitrotoluene	40.000	39.640	0.9	113	0.00
58		Fluorene	40.000	39.235	1.9	114	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.916	2.7	112	-0.01
60		Diethylphthalate	40.000	40.234	-0.6	116	-0.01
61		4-Chlorophenyl-phenylether	40.000	40.088	-0.2	116	-0.01
62		4-Nitroaniline	40.000	34.138	14.7	95	-0.02
63		Azobenzene	40.000	39.649	0.9	114	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	113	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.480	1.3	109	-0.01
66	c	n-Nitrosodiphenylamine	40.000	40.289	-0.7	116	-0.01
67		4-Bromophenyl-phenylether	40.000	41.462	-3.7	118	0.00
68		Hexachlorobenzene	40.000	40.565	-1.4	116	0.00
69		Atrazine	40.000	32.575	18.6	95	-0.01
70	C	Pentachlorophenol	40.000	36.339	9.2	98	0.00
71		Phenanthrene	40.000	39.360	1.6	113	-0.01
72		Anthracene	40.000	38.955	2.6	112	-0.01
73		Carbazole	40.000	38.171	4.6	109	0.00
74		Di-n-butylphthalate	40.000	40.904	-2.3	116	-0.01
75	C	Fluoranthene	40.000	38.098	4.8	109	-0.01
76	I	Chrysene-d12	20.000	20.000	0.0	103	0.00
77		Benzidine	40.000	15.278	61.8#	33	0.00
78		Pyrene	40.000	42.598	-6.5	107	-0.01
79	S	Terphenyl-d14	80.000	83.620	-4.5	107	0.00
80		Butylbenzylphthalate	40.000	44.150	-10.4	110	-0.01
81		Benzo(a)anthracene	40.000	39.478	1.3	101	0.00
82		3,3'-Dichlorobenzidine	40.000	34.594	13.5	90	0.00
83		Chrysene	40.000	39.085	2.3	103	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	46.030	-15.1	115	-0.01
85	c	Di-n-octyl phthalate	40.000	45.155	-12.9	114	0.00
86	I	Perylene-d12	20.000	20.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	46.650	-16.6	113	-0.01
88		Benzo(b)fluoranthene	40.000	37.504	6.2	96	0.00
89		Benzo(k)fluoranthene	40.000	41.684	-4.2	106	0.00
90	C	Benzo(a)pyrene	40.000	40.130	-0.3	102	0.00
91		Dibenzo(a,h)anthracene	40.000	46.693	-16.7	113	-0.02
92		Benzo(g,h,i)perylene	40.000	47.360	-18.4	114	-0.02

Sample Results: **BF141628.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141628.D
Acq On : 14 Feb 2025 09:45
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 11:12:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 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: WEST04

Lab Code: CHEM Case No.: Q1352 SAS No.: Q1352 SDG No.: Q1352

Instrument ID: BNA_F Calibration Date/Time: 02/14/2025 14:12

Lab File ID: BF141637.D Init. Calib. Date(s): 02/06/2025 02/06/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 11:07 14:14

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.222	1.236		1.1	50.0
2-Fluorophenol	1.276	1.282		0.5	50.0
Phenol-d6	1.612	1.578		-2.1	50.0
1,4-Dichlorobenzene	1.487	1.476		-0.7	50.0
2-Methylphenol	1.079	1.057		-2.0	50.0
3+4-Methylphenols	1.371	1.327		-3.2	50.0
Nitrobenzene-d5	0.383	0.369		-3.7	50.0
Hexachloroethane	0.550	0.556		1.1	50.0
Nitrobenzene	0.374	0.358		-4.3	50.0
Hexachlorobutadiene	0.192	0.194		1.0	50.0
2,4,6-Trichlorophenol	0.374	0.372		-0.5	50.0
2-Fluorobiphenyl	1.298	1.261		-2.9	50.0
2,4,5-Trichlorophenol	0.405	0.406		0.2	50.0
2,4-Dinitrotoluene	0.395	0.395		0.0	50.0
2,4,6-Tribromophenol	0.201	0.199		-1.0	50.0
Hexachlorobenzene	0.230	0.236		2.6	50.0
Pentachlorophenol	0.147	0.138		-6.1	50.0
Terphenyl-d14	1.185	1.234		4.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	107136	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	420232	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	230255	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	392808	20.000	ng		0.00
76) Chrysene-d12	13.957	240	249369	20.000	ng		0.00
86) Perylene-d12	15.416	264	195176	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	549516	80.412	ng		0.00
7) Phenol-d6	6.434	99	676217	78.290	ng		0.00
23) Nitrobenzene-d5	7.357	82	620661	77.035	ng		0.00
42) 2,4,6-Tribromophenol	10.616	330	183520	79.342	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1161773	77.735	ng		0.00
79) Terphenyl-d14	12.892	244	1231252	83.353	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.475	88	108980	39.623	ng		99
3) Pyridine	3.205	79	264910	40.475	ng		96
4) n-Nitrosodimethylamine	3.163	42	163122	37.640	ng		92
6) Aniline	6.451	93	243186	30.015	ng	#	72
8) 2-Chlorophenol	6.575	128	292025	39.548	ng		96
9) Benzaldehyde	6.340	77	240414	52.379	ng		99
10) Phenol	6.445	94	345076	38.385	ng		90
11) bis(2-Chloroethyl)ether	6.528	93	267934	39.680	ng		99
12) 1,3-Dichlorobenzene	6.728	146	309171	39.660	ng		98
13) 1,4-Dichlorobenzene	6.804	146	316309	39.713	ng		99
14) 1,2-Dichlorobenzene	6.957	146	298877	40.431	ng		99
15) Benzyl Alcohol	6.934	79	252955	38.190	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	435351	37.664	ng		75
17) 2-Methylphenol	7.051	107	226567	39.208	ng		97
18) Hexachloroethane	7.298	117	119176	40.430	ng		97
19) n-Nitroso-di-n-propyla...	7.204	70	200882	38.882	ng		97
20) 3+4-Methylphenols	7.204	107	284255	38.707	ng		96
22) Acetophenone	7.198	105	404557	38.701	ng	#	96
24) Nitrobenzene	7.375	77	301002	38.313	ng		98
25) Isophorone	7.610	82	511779	39.838	ng		99
26) 2-Nitrophenol	7.687	139	161142	41.226	ng		96
27) 2,4-Dimethylphenol	7.728	122	180559	39.542	ng		99
28) bis(2-Chloroethoxy)met...	7.822	93	334227	40.602	ng		99
29) 2,4-Dichlorophenol	7.939	162	251000	40.683	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	267351	39.793	ng		99
31) Naphthalene	8.092	128	853747	39.029	ng		100
32) Benzoic acid	7.869	122	177549	37.434	ng		98
33) 4-Chloroaniline	8.145	127	251295	32.904	ng		98
34) Hexachlorobutadiene	8.204	225	163037	40.422	ng		99
35) Caprolactam	8.522	113	75890	40.400	ng		93
36) 4-Chloro-3-methylphenol	8.634	107	269716	39.466	ng		98
37) 2-Methylnaphthalene	8.781	142	564984	39.691	ng		99
38) 1-Methylnaphthalene	8.881	142	541344	39.266	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	269871	40.512	ng		99
41) Hexachlorocyclopentadiene	8.934	237	79718	35.979	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	171097	39.740	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

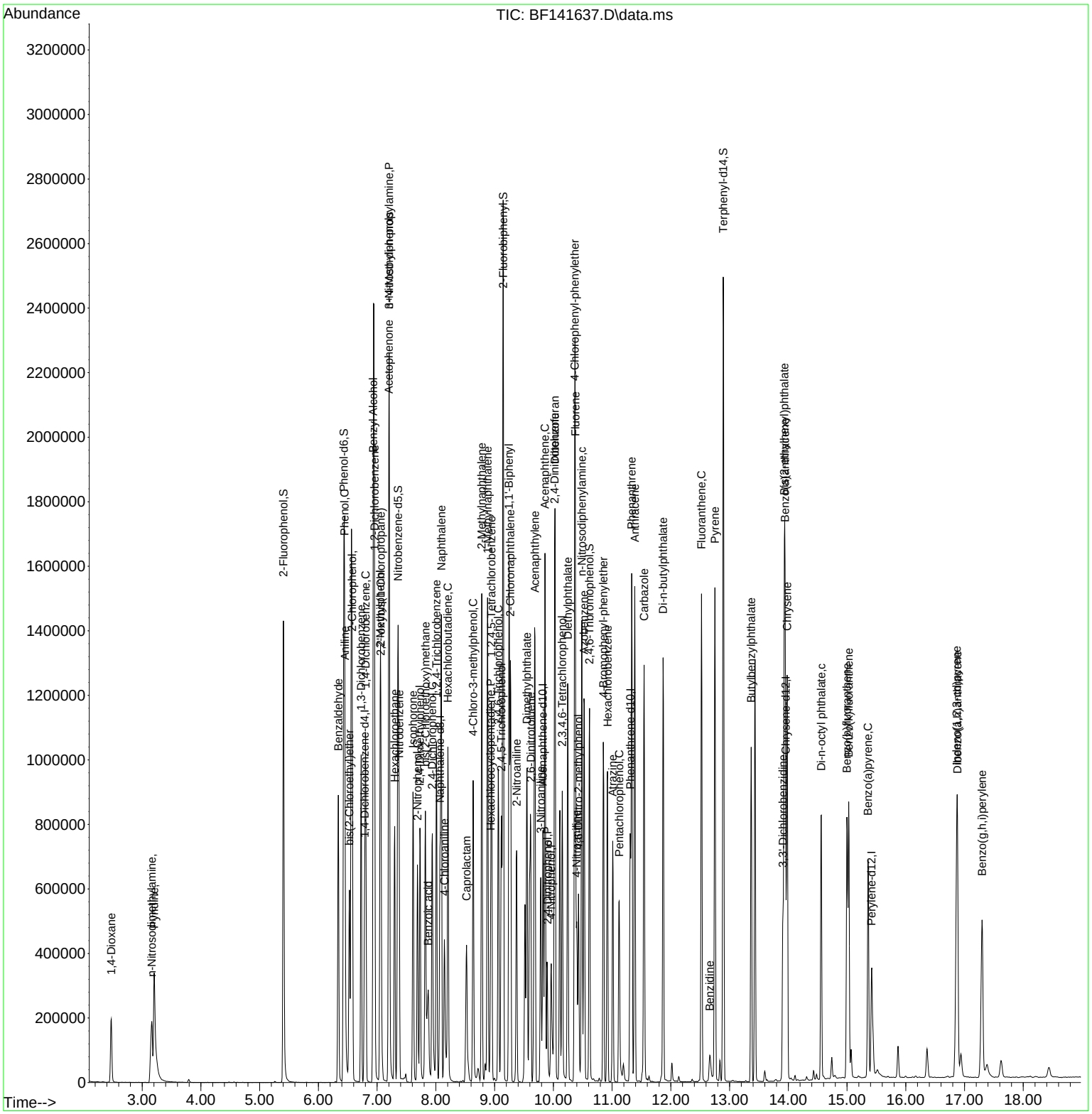
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	187057	40.088	ng	98
46) 1,1'-Biphenyl	9.245	154	703331	39.400	ng	100
47) 2-Chloronaphthalene	9.269	162	521785	39.528	ng	100
48) 2-Nitroaniline	9.375	65	171498	38.712	ng	96
49) Acenaphthylene	9.686	152	769280	39.181	ng	99
50) Dimethylphthalate	9.551	163	626430	40.075	ng	100
51) 2,6-Dinitrotoluene	9.616	165	135852	39.756	ng	96
52) Acenaphthene	9.857	154	509416	38.593	ng	99
53) 3-Nitroaniline	9.786	138	139362	37.892	ng	98
54) 2,4-Dinitrophenol	9.898	184	76906	37.868	ng	91
55) Dibenzofuran	10.028	168	747087	38.559	ng	100
56) 4-Nitrophenol	9.963	139	94975	34.787	ng	92
57) 2,4-Dinitrotoluene	10.022	165	181929	39.993	ng	96
58) Fluorene	10.375	166	585369	39.075	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	160045	39.840	ng	95
60) Diethylphthalate	10.245	149	625908	40.698	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	288463	40.025	ng	99
62) 4-Nitroaniline	10.398	138	124924	33.451	ng	98
63) Azobenzene	10.522	77	600059	39.247	ng	98
65) 4,6-Dinitro-2-methylph...	10.428	198	108225	39.662	ng	97
66) n-Nitrosodiphenylamine	10.486	169	502383	39.954	ng	99
67) 4-Bromophenyl-phenylether	10.851	248	179244	40.829	ng	97
68) Hexachlorobenzene	10.922	284	185090	40.943	ng	98
69) Atrazine	11.010	200	128077	33.952	ng	98
70) Pentachlorophenol	11.122	266	108084	37.392	ng	99
71) Phenanthrene	11.333	178	843942	39.031	ng	100
72) Anthracene	11.386	178	850078	39.110	ng	100
73) Carbazole	11.545	167	750015	38.349	ng	100
74) Di-n-butylphthalate	11.869	149	923226	40.882	ng	100
75) Fluoranthene	12.522	202	880902	38.427	ng	100
77) Benzidine	12.663	184	69985	12.725	ng	98
78) Pyrene	12.751	202	886449	41.758	ng	99
80) Butylbenzylphthalate	13.369	149	324579	44.144	ng	99
81) Benzo(a)anthracene	13.945	228	656735	39.619	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	166593	35.084	ng	98
83) Chrysene	13.980	228	596634	38.981	ng	99
84) Bis(2-ethylhexyl)phtha...	13.933	149	393590	47.462	ng	99
85) Di-n-octyl phthalate	14.563	149	560094	47.344	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	546070	45.280	ng	100
88) Benzo(b)fluoranthene	14.998	252	544380	41.539	ng	99
89) Benzo(k)fluoranthene	15.027	252	433894	38.773	ng	99
90) Benzo(a)pyrene	15.357	252	425991	40.172	ng	98
91) Dibenzo(a,h)anthracene	16.880	278	441085	45.138	ng	99
92) Benzo(g,h,i)perylene	17.298	276	466821	45.651	ng	99

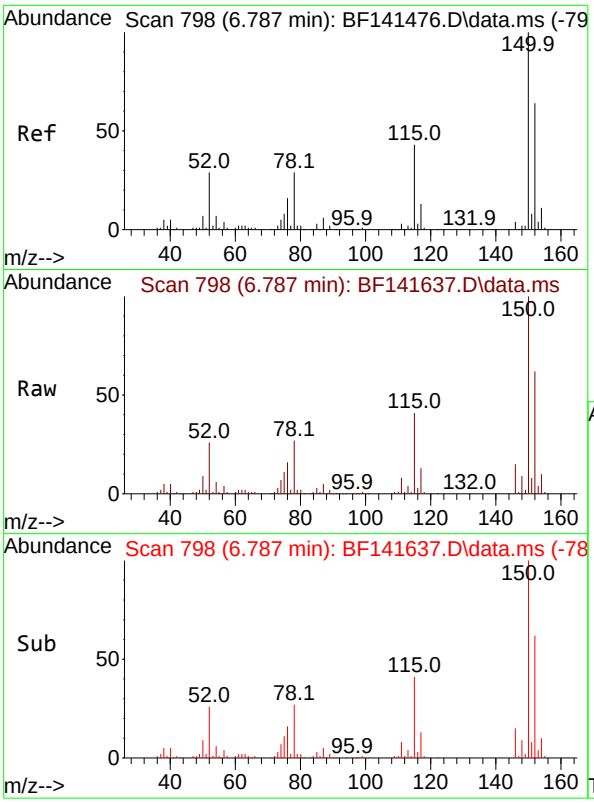
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



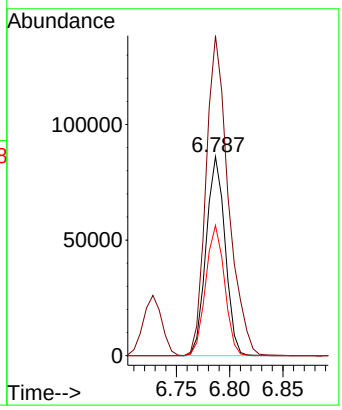


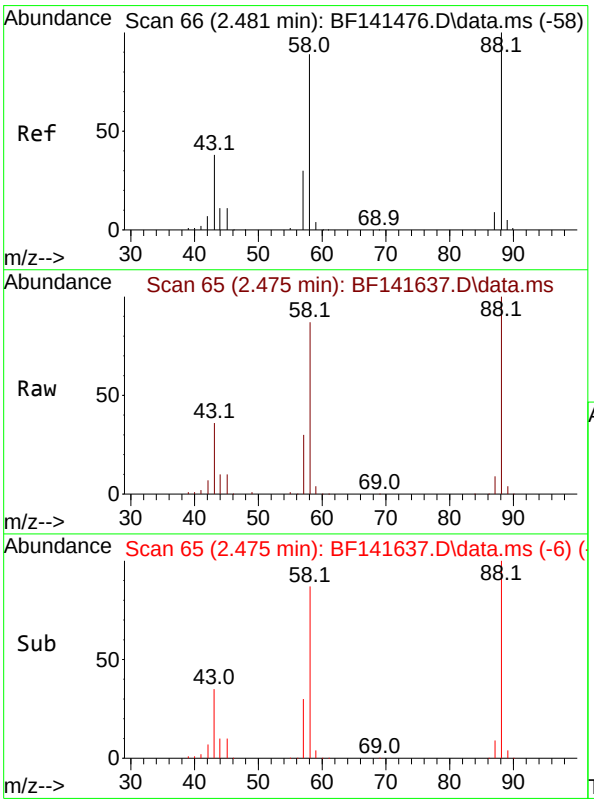
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 107136

Ion	Ratio	Lower	Upper
152	100		
150	160.7	125.0	187.4
115	65.4	53.6	80.4

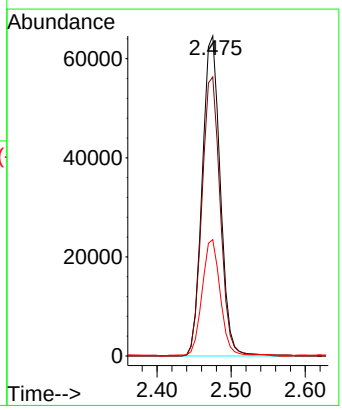


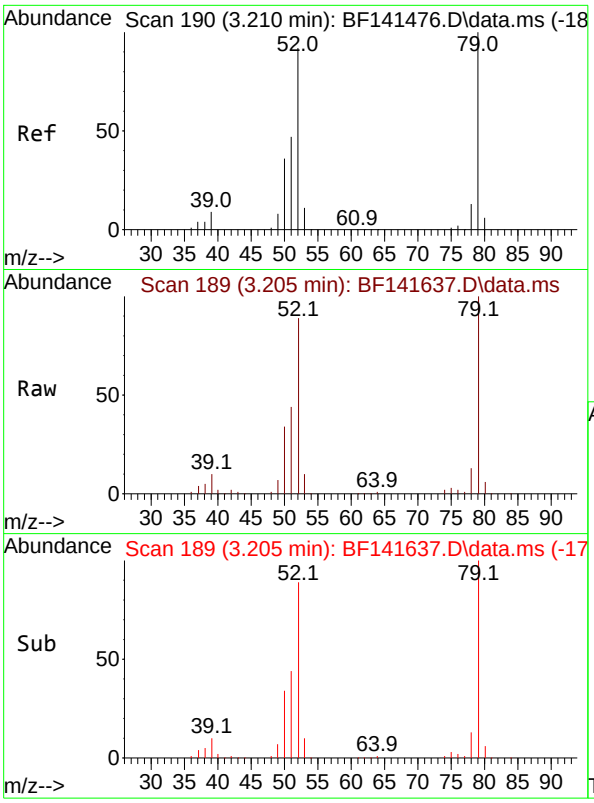


#2
1,4-Dioxane
Concen: 39.623 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 88 Resp: 108980

Ion	Ratio	Lower	Upper
88	100		
58	88.7	71.1	106.7
43	36.9	30.6	46.0



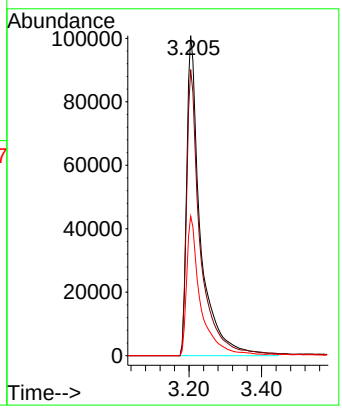


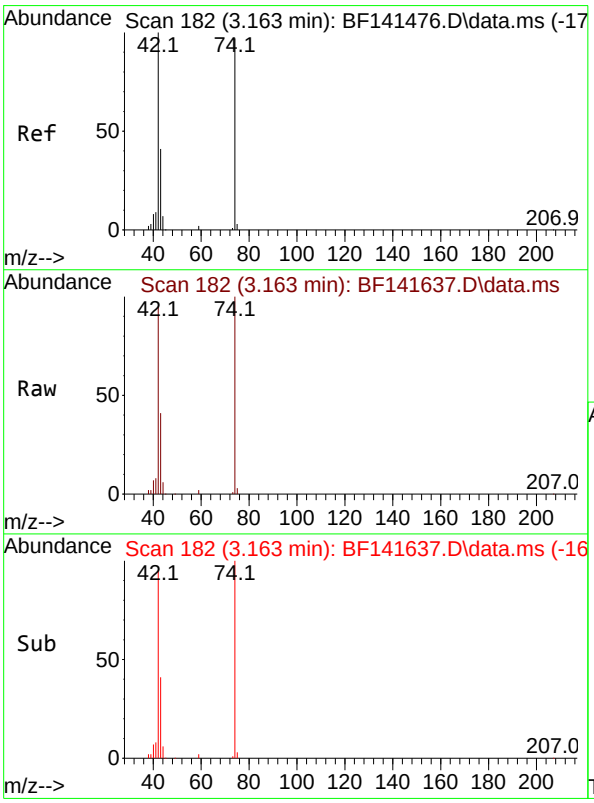
#3
Pyridine
Concen: 40.475 ng
RT: 3.205 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 264910

Ion	Ratio	Lower	Upper
79	100		
52	89.4	73.7	110.5
51	43.6	37.5	56.3

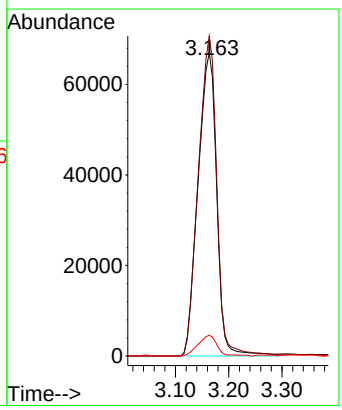


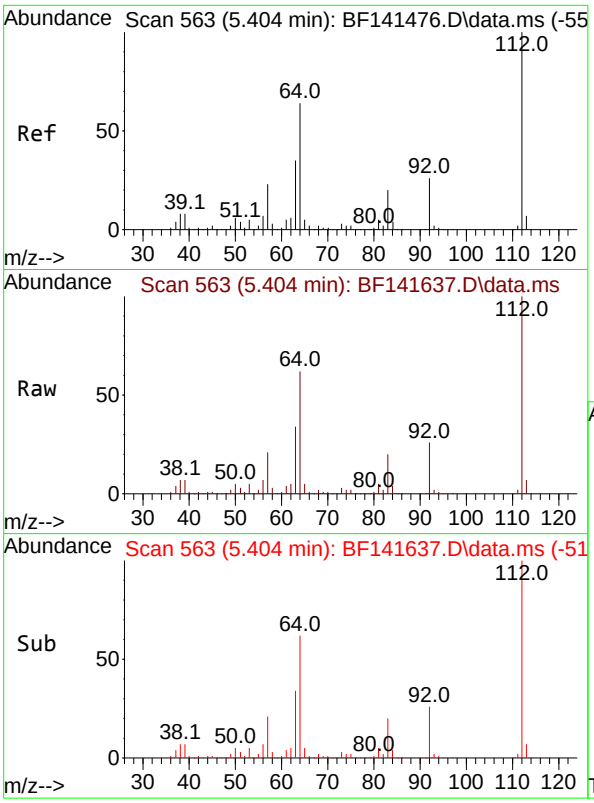


#4
n-Nitrosodimethylamine
Concen: 37.640 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.023 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 42 Resp: 163122

Ion	Ratio	Lower	Upper
42	100		
74	105.4	78.0	117.0
44	6.8	5.4	8.2



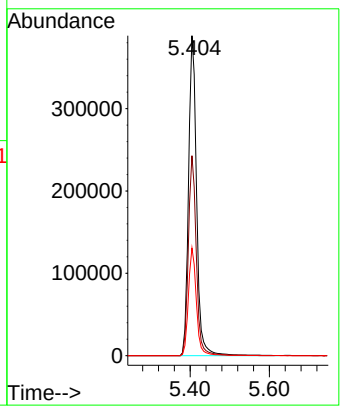


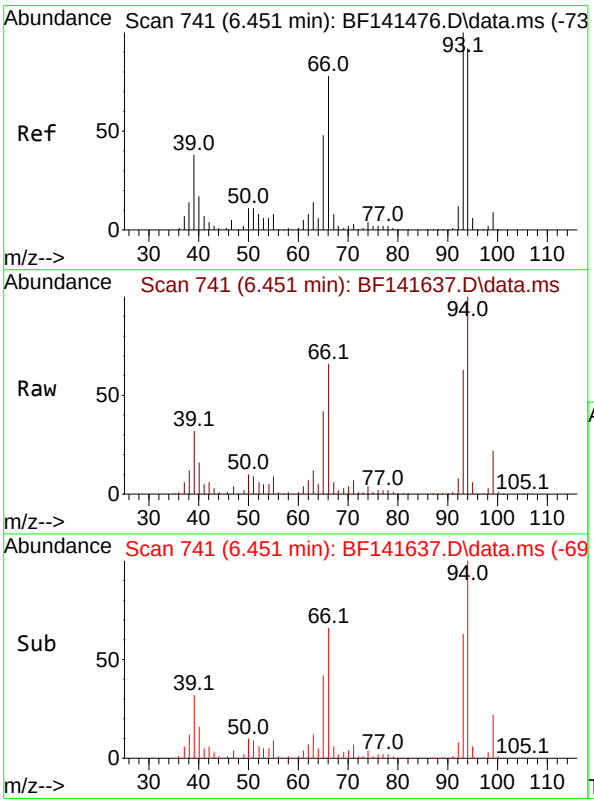
#5
2-Fluorophenol
Concen: 80.412 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 549516

Ion	Ratio	Lower	Upper
112	100		
64	62.5	51.1	76.7
63	33.6	28.4	42.6

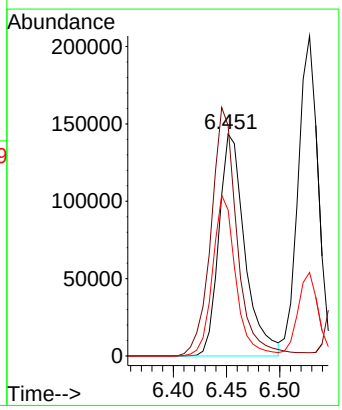


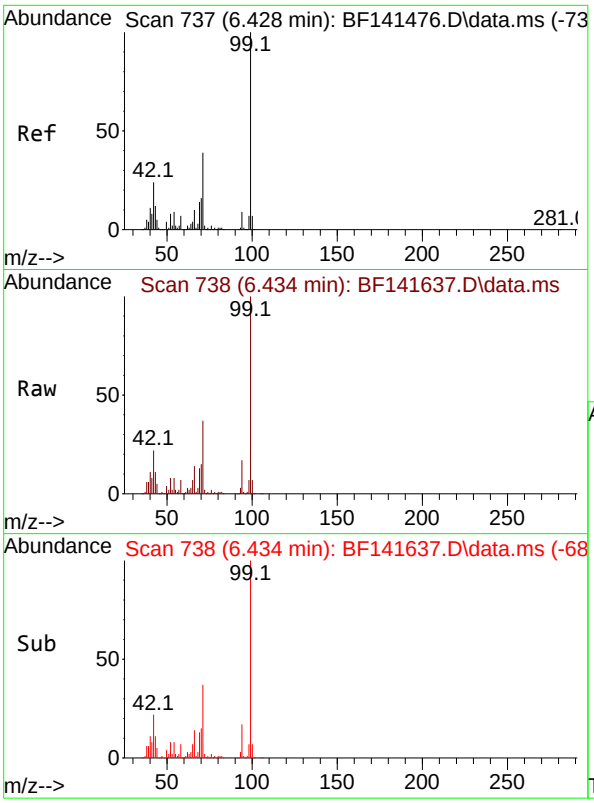


#6
Aniline
Concen: 30.015 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 93 Resp: 243186

Ion	Ratio	Lower	Upper
93	100		
66	103.8	62.6	94.0#
65	65.8	38.3	57.5#



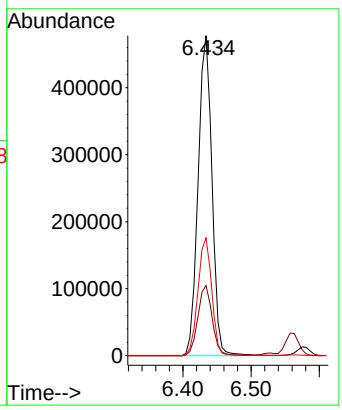


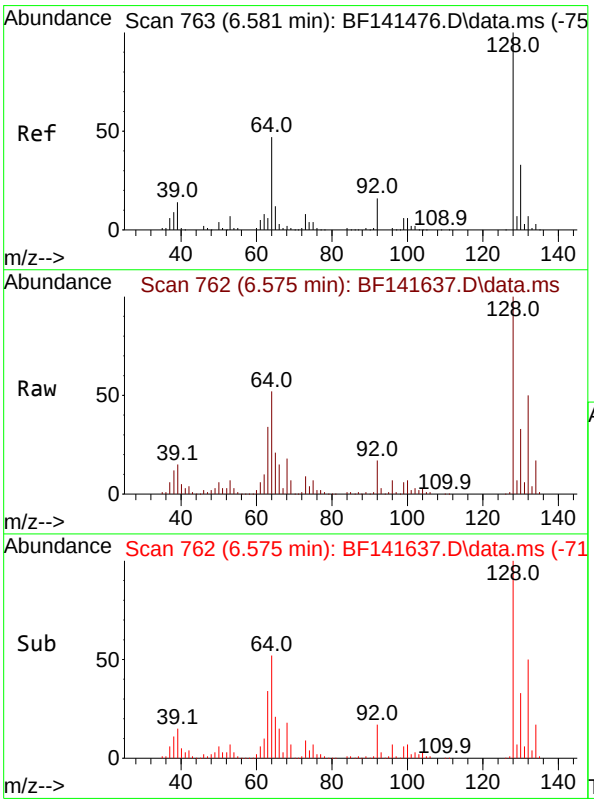
#7
Phenol-d6
Concen: 78.290 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 676217

Ion	Ratio	Lower	Upper
99	100		
42	21.9	19.1	28.7
71	36.8	31.1	46.7

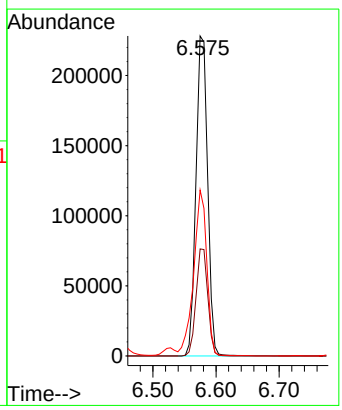


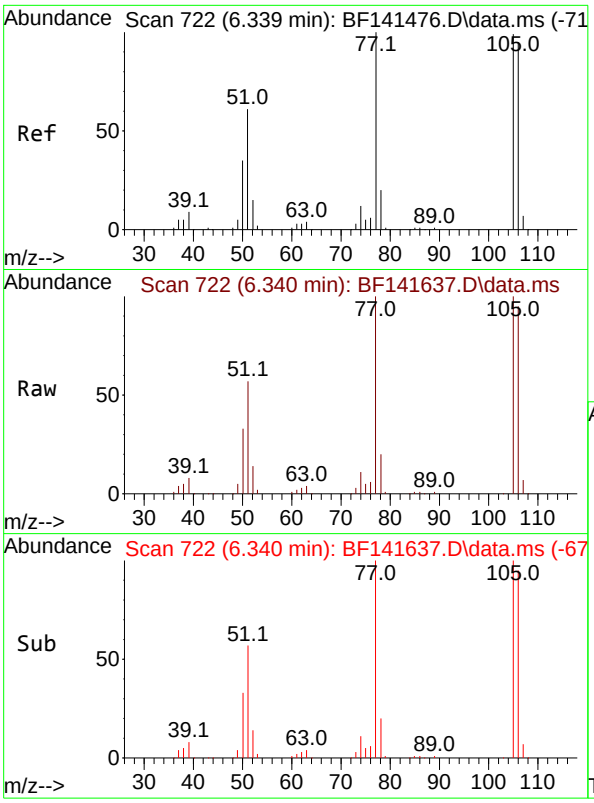


#8
2-Chlorophenol
Concen: 39.548 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:128 Resp: 292025

Ion	Ratio	Lower	Upper
128	100		
130	33.5	12.7	52.7
64	51.8	28.3	68.3



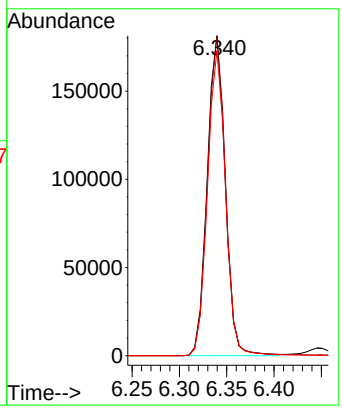


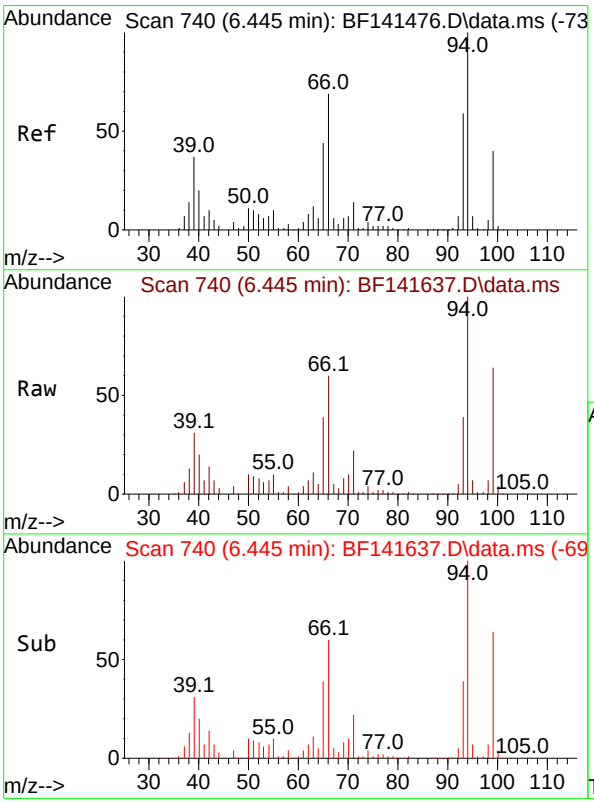
#9
Benzaldehyde
Concen: 52.379 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 240414

Ion	Ratio	Lower	Upper
77	100		
105	100.1	79.4	119.4
106	95.4	75.1	115.1

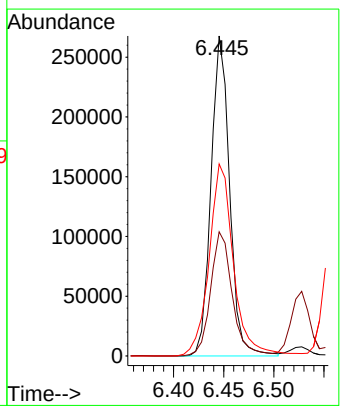


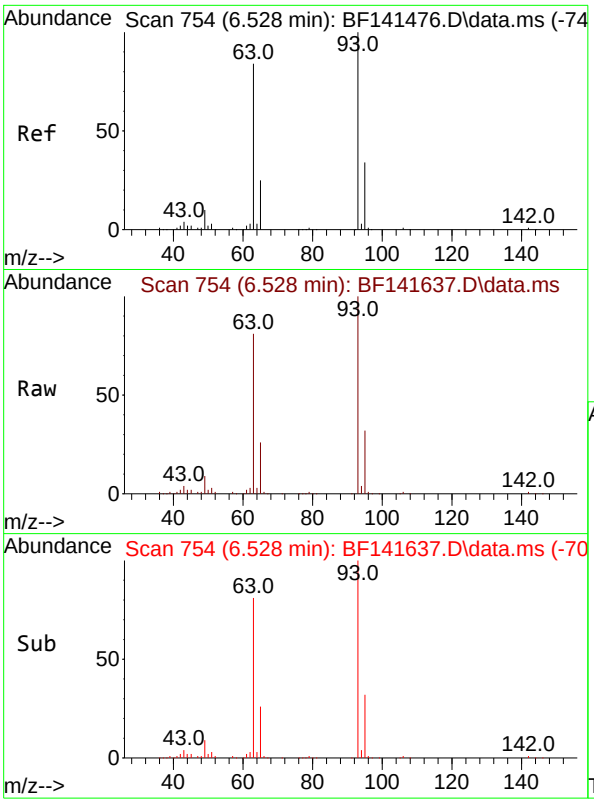


#10
Phenol
Concen: 38.385 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 94 Resp: 345076

Ion	Ratio	Lower	Upper
94	100		
65	38.8	23.7	63.7
66	60.0	49.3	89.3



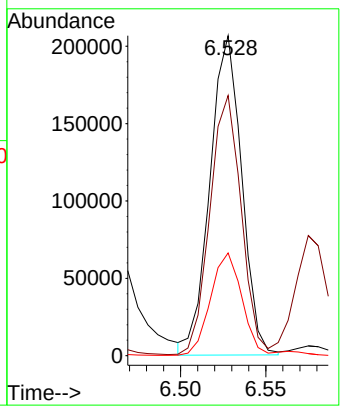


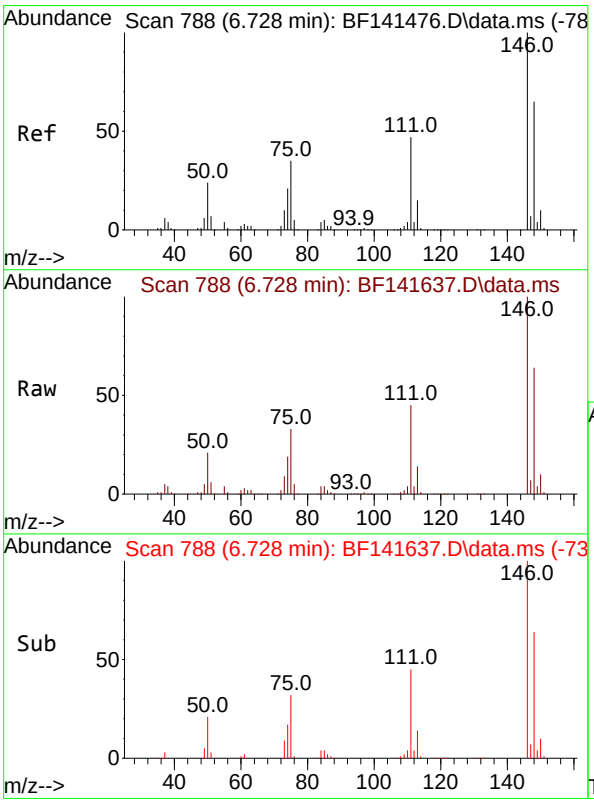
#11
bis(2-Chloroethyl)ether
Concen: 39.680 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 267934

Ion	Ratio	Lower	Upper
93	100		
63	81.3	62.0	102.0
95	32.1	12.6	52.6

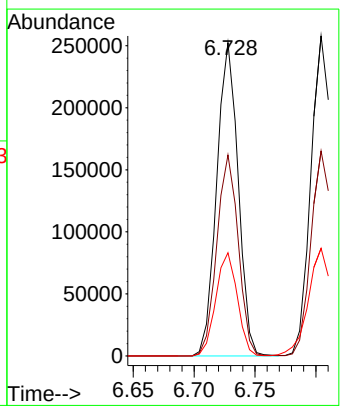


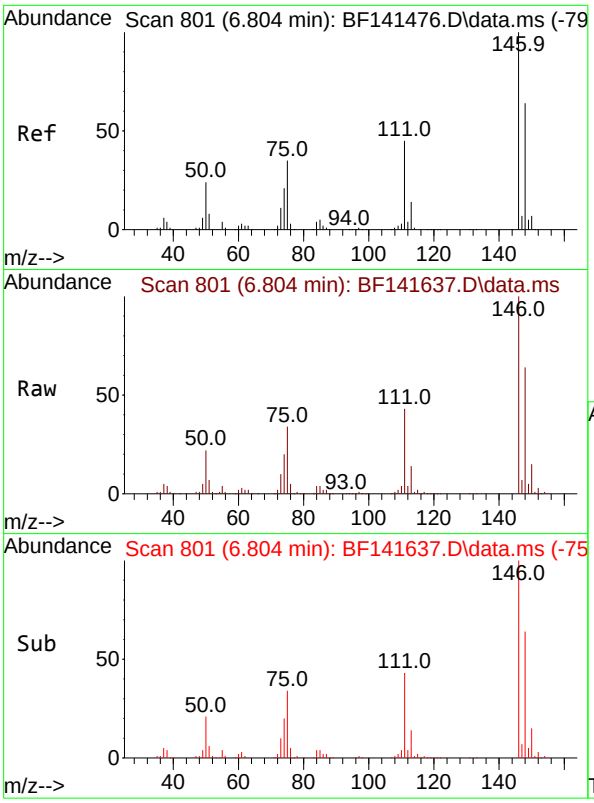


#12
1,3-Dichlorobenzene
Concen: 39.660 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:146 Resp: 309171

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.9	77.9
75	33.0	28.2	42.2



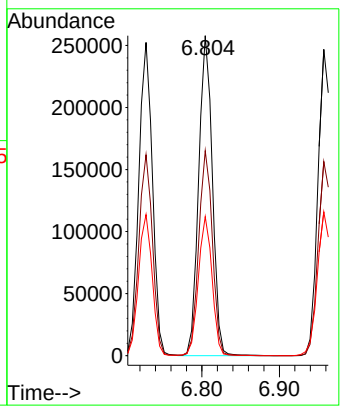


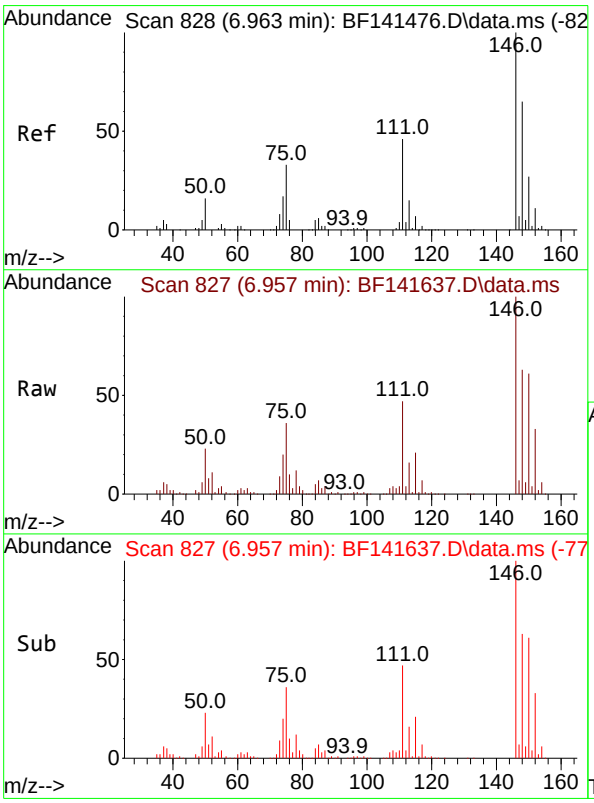
#13
1,4-Dichlorobenzene
Concen: 39.713 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 316309

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.9	76.3
111	43.4	35.9	53.9

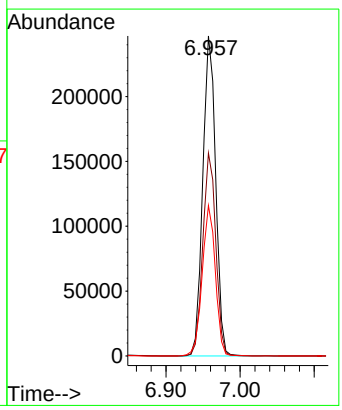


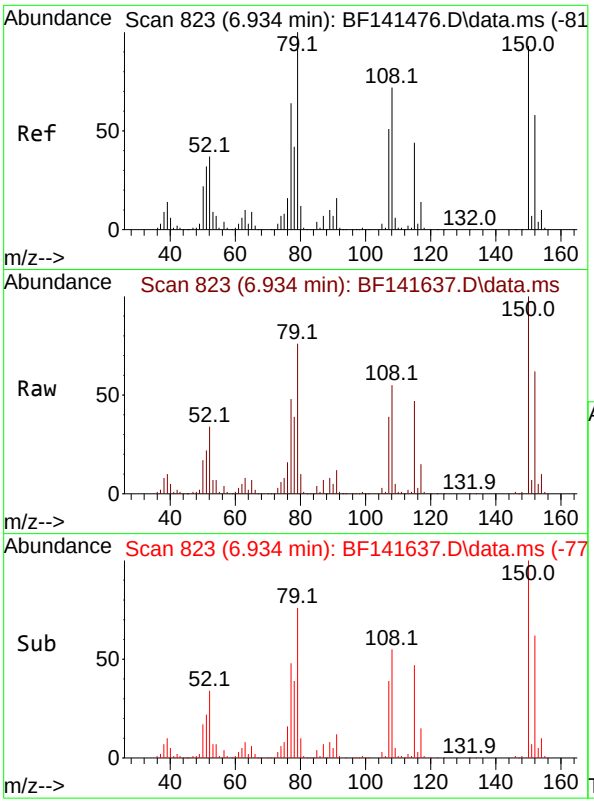


#14
1,2-Dichlorobenzene
Concen: 40.431 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:146 Resp: 298877

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.8	77.6
111	47.0	37.0	55.4



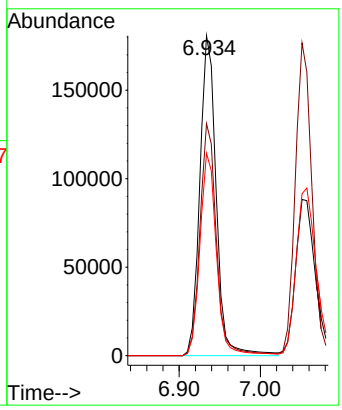


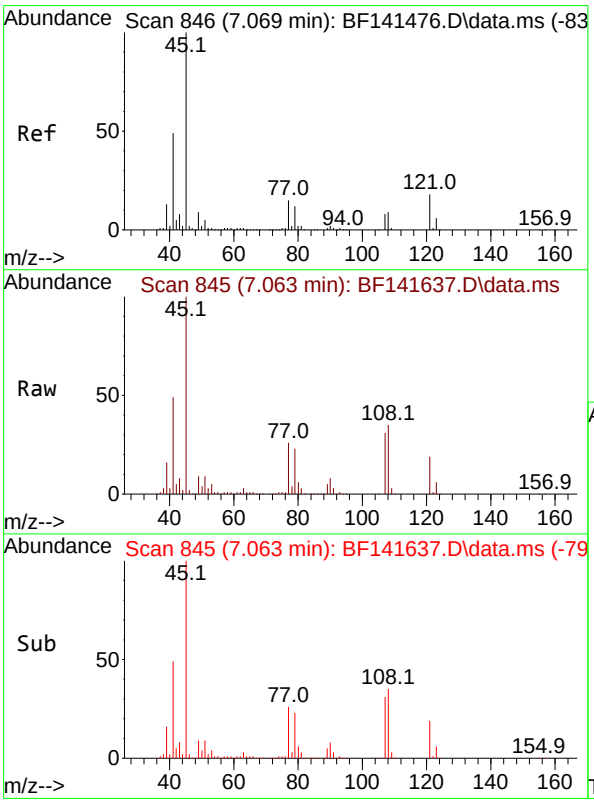
#15
Benzyl Alcohol
Concen: 38.190 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 252955

Ion	Ratio	Lower	Upper
79	100		
108	72.6	57.4	86.2
77	63.2	50.9	76.3

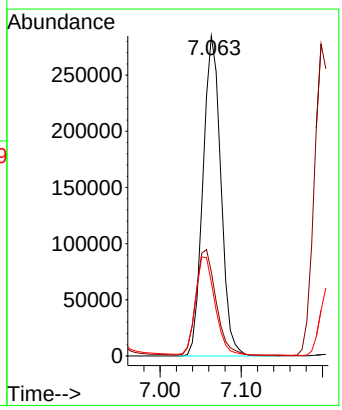


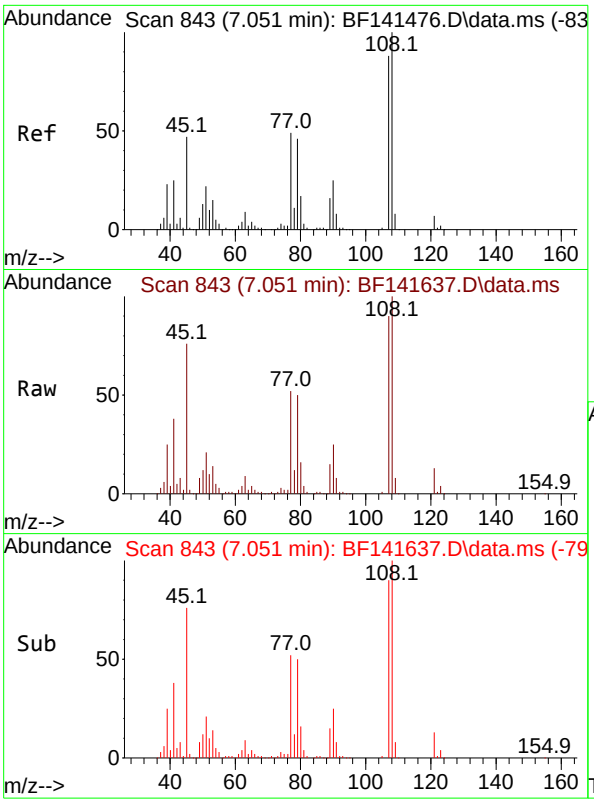


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.664 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 45 Resp: 435351

Ion	Ratio	Lower	Upper
45	100		
77	26.3	0.0	35.8
79	23.0	0.0	32.7



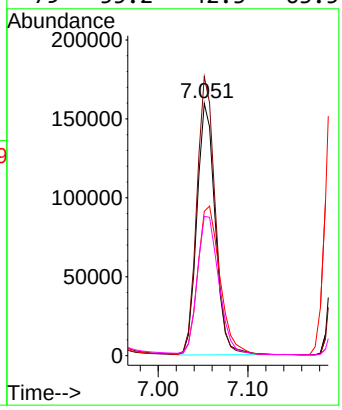


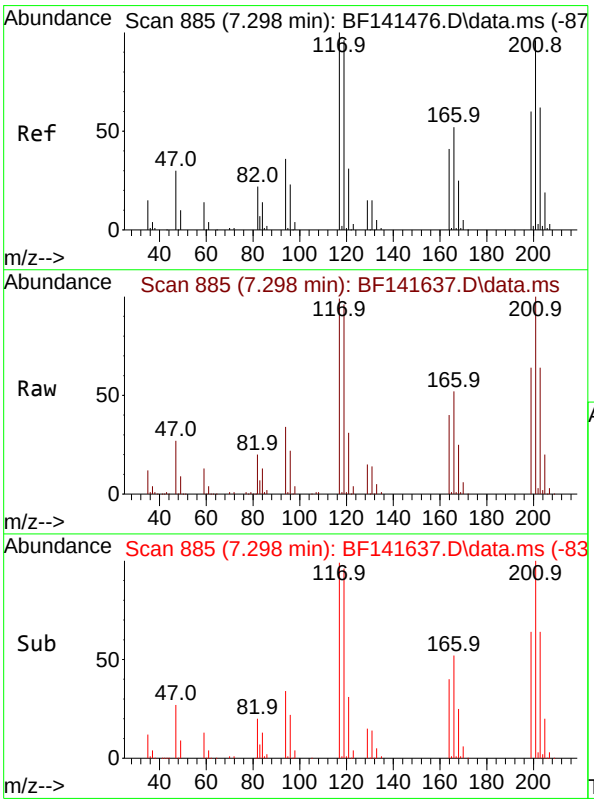
#17
2-Methylphenol
Concen: 39.208 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 226567

Ion	Ratio	Lower	Upper
107	100		
108	110.5	90.6	136.0
77	57.2	44.4	66.6
79	55.2	42.3	63.5

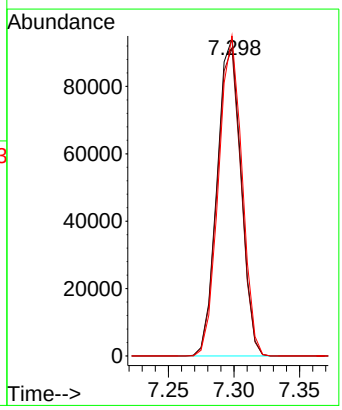


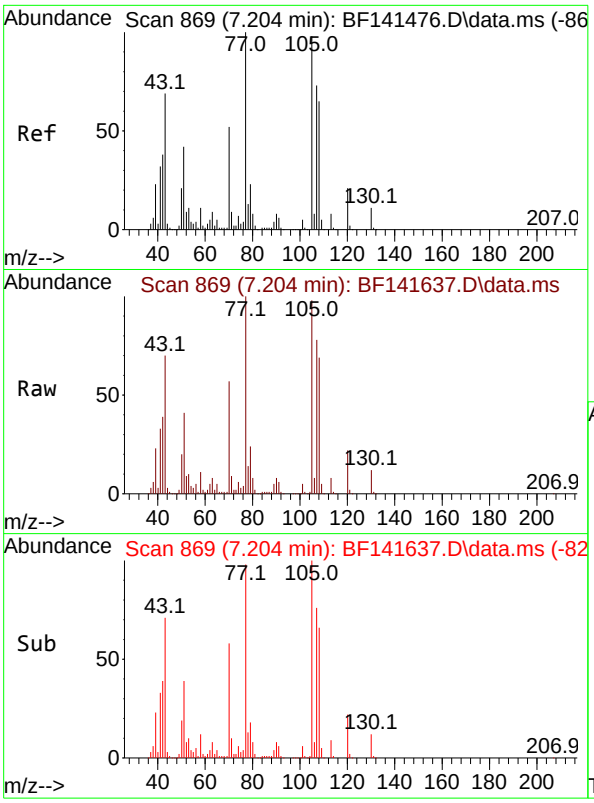


#18
Hexachloroethane
Concen: 40.430 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:117 Resp: 119176

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.5	114.7
201	101.0	76.7	115.1



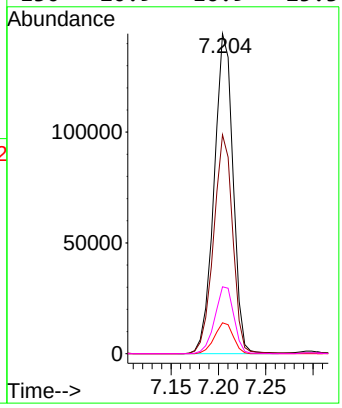


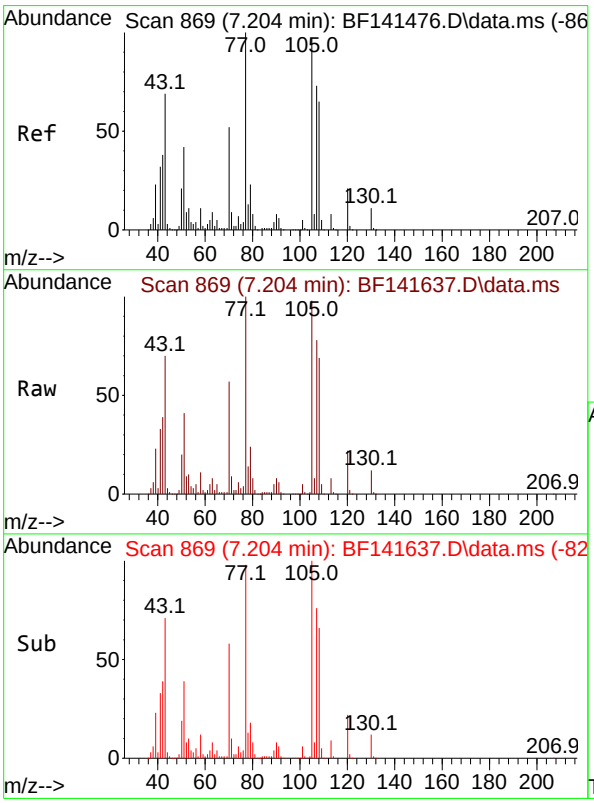
#19
n-Nitroso-di-n-propylamine
Concen: 38.882 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 200882

Ion	Ratio	Lower	Upper
70	100		
42	68.4	57.4	86.2
101	9.7	8.0	12.0
130	20.9	16.9	25.3

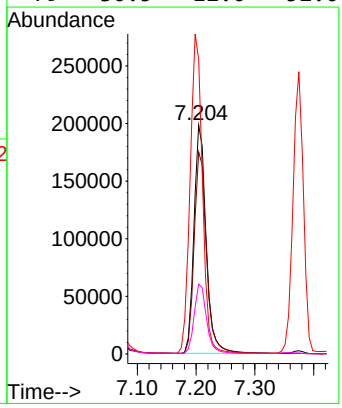


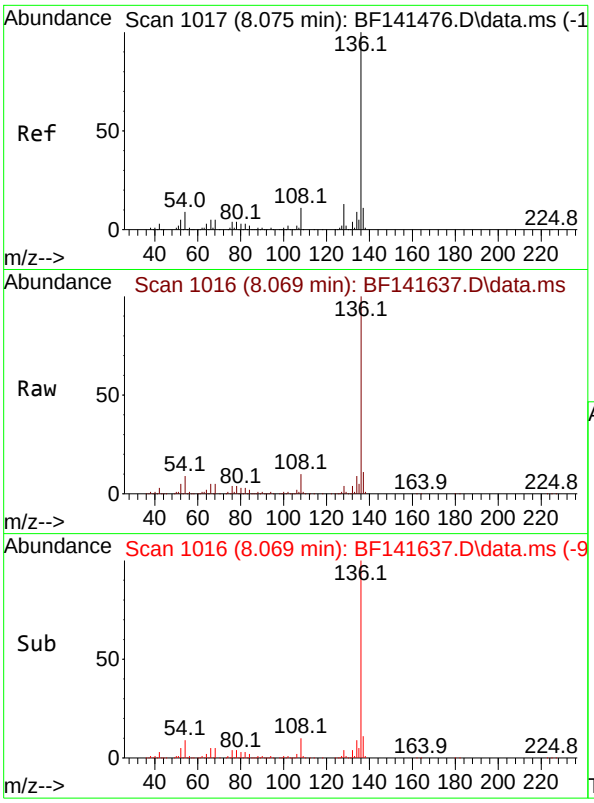


#20
3+4-Methylphenols
Concen: 38.707 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:107 Resp: 284255

Ion	Ratio	Lower	Upper
107	100		
108	88.3	68.5	108.5
77	128.7	116.5	156.5
79	30.5	12.0	52.0



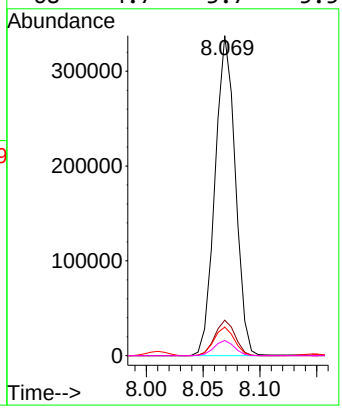


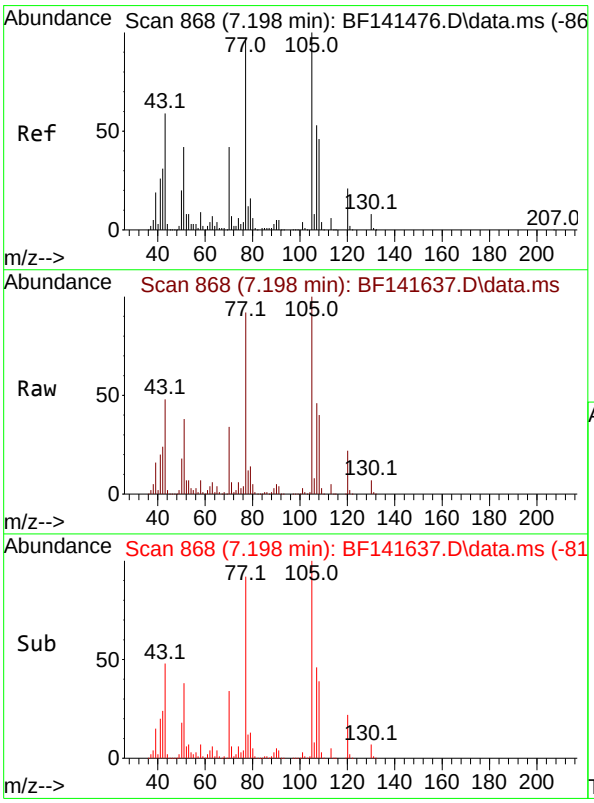
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 420232

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	9.0	7.2	10.8
68	4.7	3.7	5.5

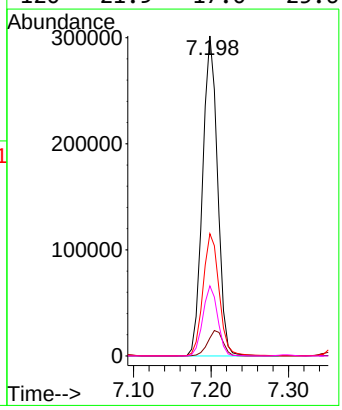


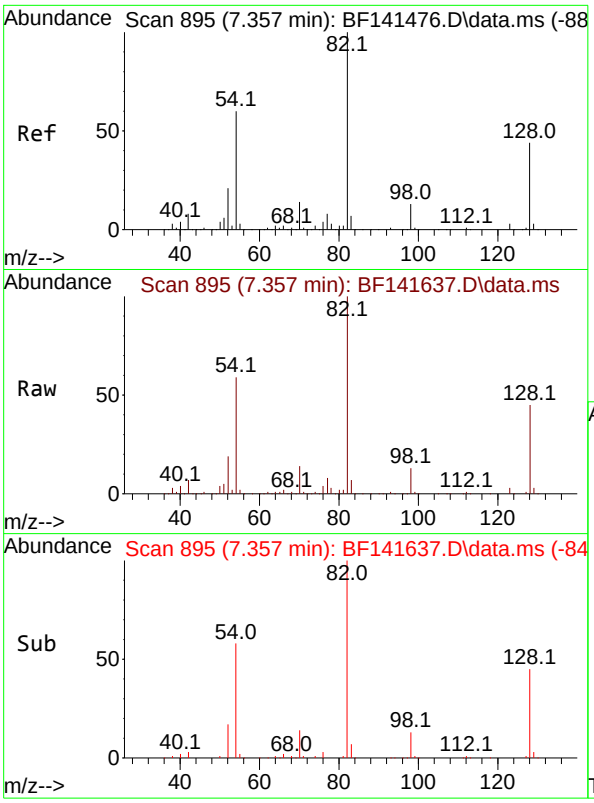


#22
Acetophenone
Concen: 38.701 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:105 Resp: 404557

Ion	Ratio	Lower	Upper
105	100		
71	5.6	5.7	8.5#
51	38.2	33.7	50.5
120	21.9	17.0	25.6



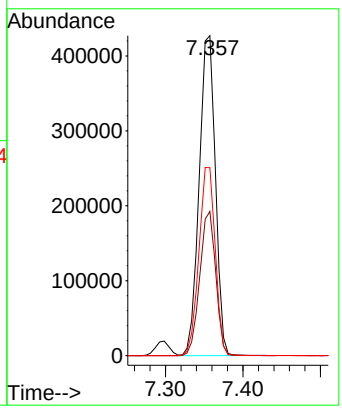


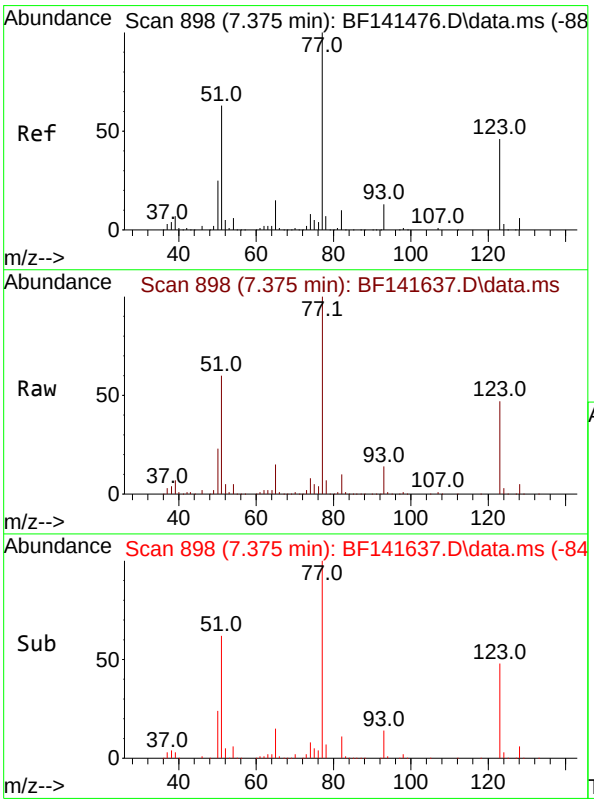
#23
Nitrobenzene-d5
Concen: 77.035 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 620661

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.8	52.2
54	58.8	48.2	72.4

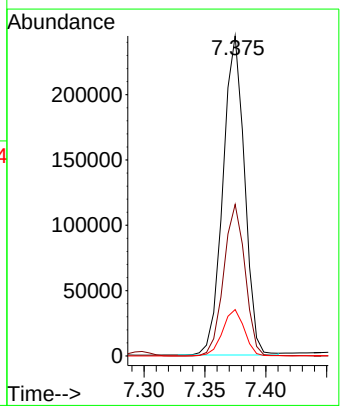


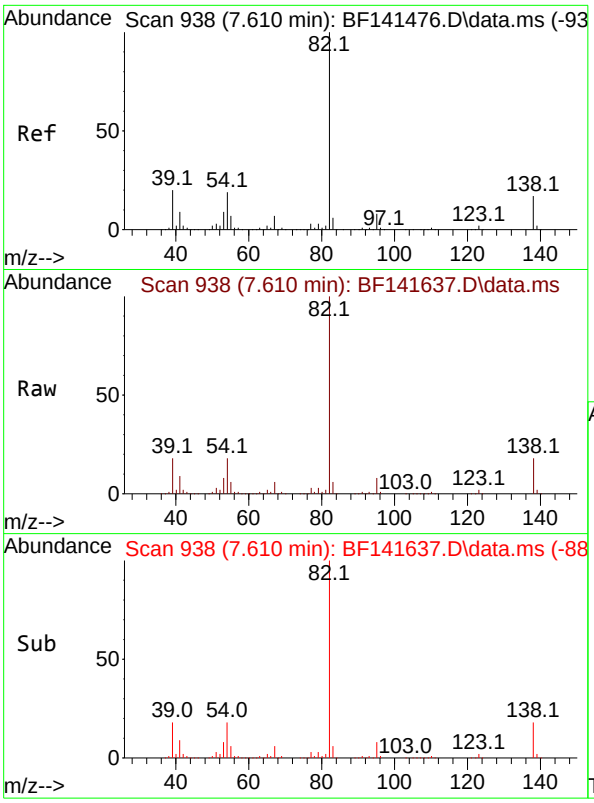


#24
Nitrobenzene
Concen: 38.313 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 77 Resp: 301002

Ion	Ratio	Lower	Upper
77	100		
123	47.3	36.9	55.3
65	14.5	11.9	17.9



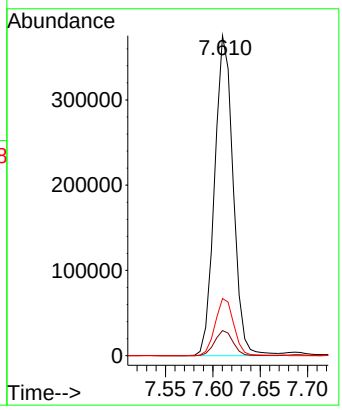


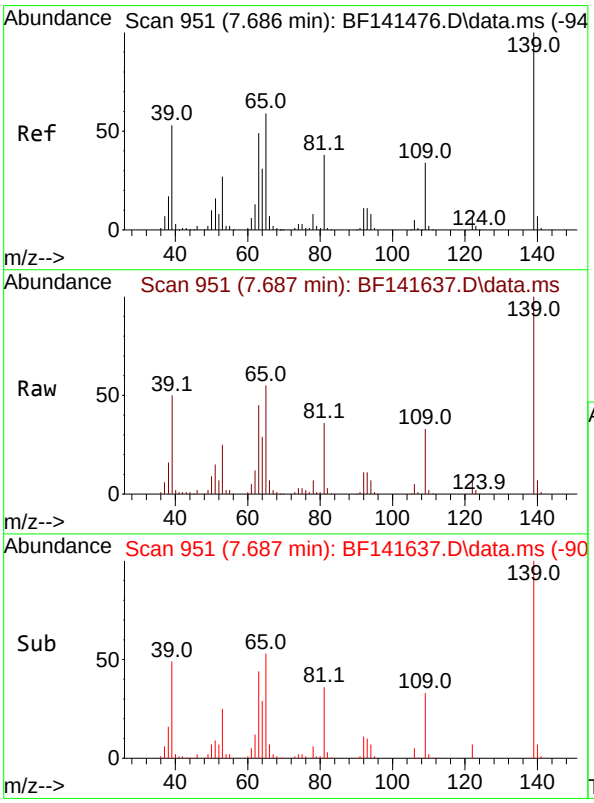
#25
Isophorone
Concen: 39.838 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 511779

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	17.9	13.9	20.9

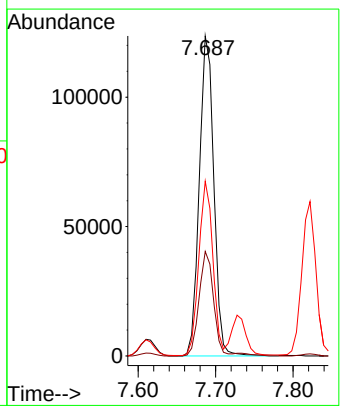


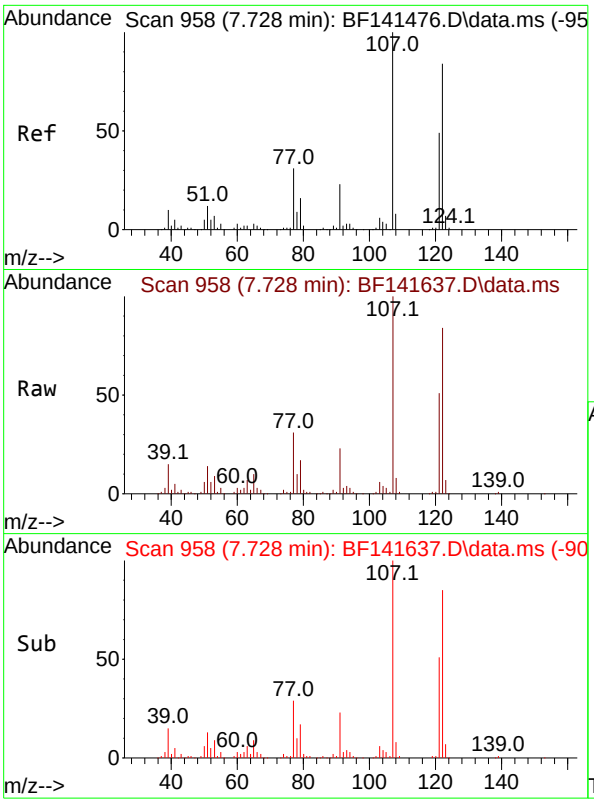


#26
2-Nitrophenol
Concen: 41.226 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:139 Resp: 161142

Ion	Ratio	Lower	Upper
139	100		
109	32.7	27.0	40.6
65	54.6	47.1	70.7



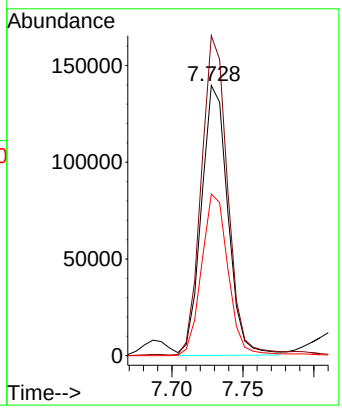


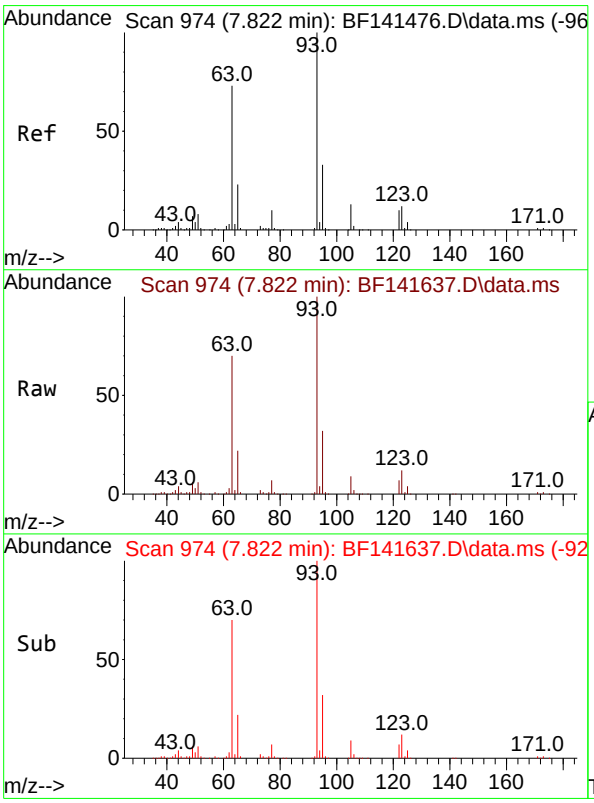
#27
2,4-Dimethylphenol
Concen: 39.542 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 180559

Ion	Ratio	Lower	Upper
122	100		
107	118.4	94.3	141.5
121	59.8	46.0	69.0

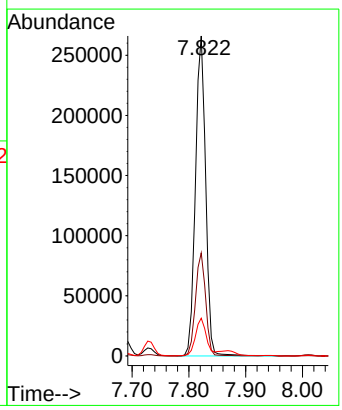


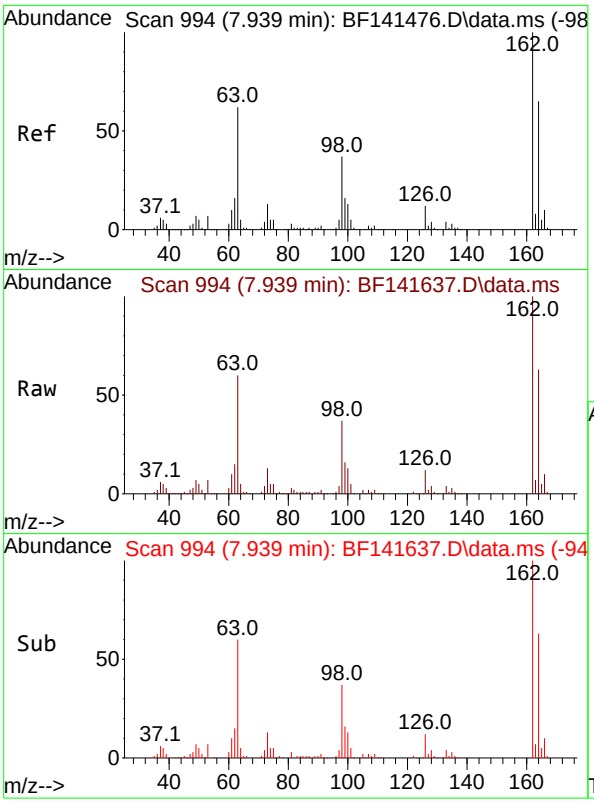


#28
bis(2-Chloroethoxy)methane
Concen: 40.602 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 93 Resp: 334227

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.1	39.1
123	11.8	9.5	14.3



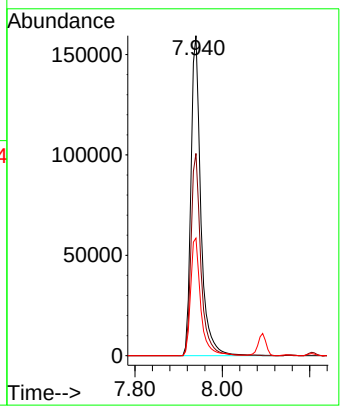


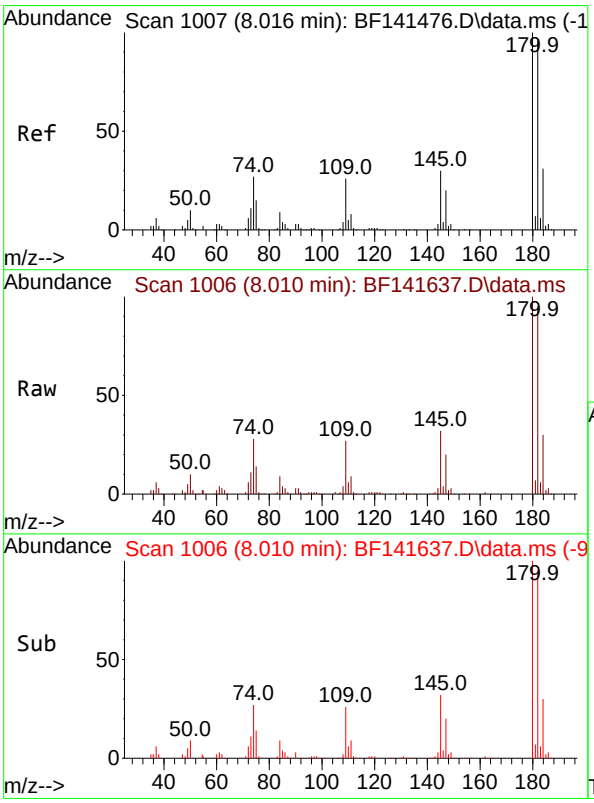
#29
2,4-Dichlorophenol
Concen: 40.683 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 251000

Ion	Ratio	Lower	Upper
162	100		
164	63.2	44.6	84.6
98	36.8	17.2	57.2

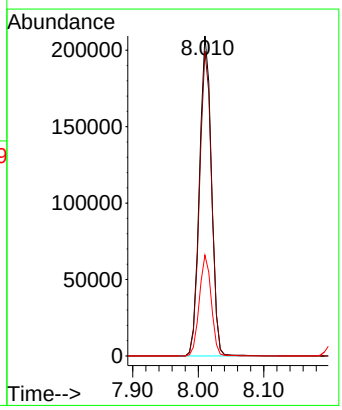


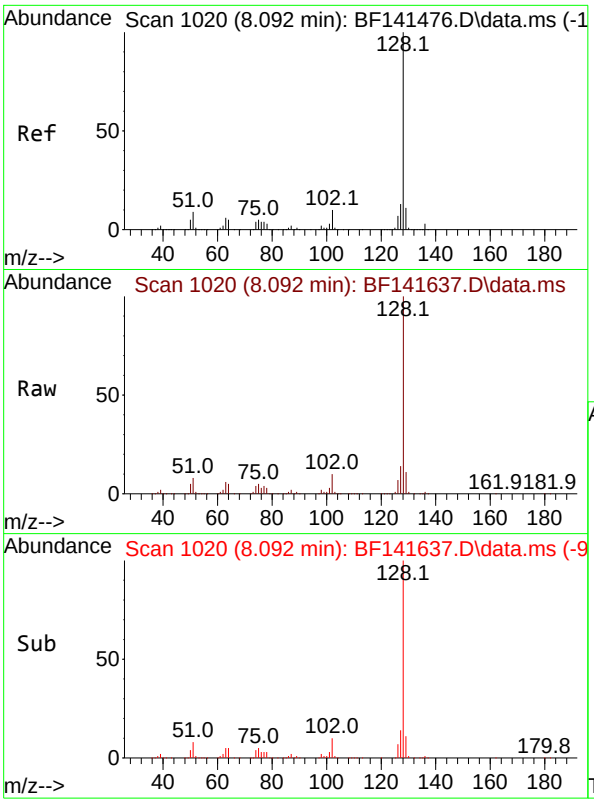


#30
1,2,4-Trichlorobenzene
Concen: 39.793 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:180 Resp: 267351

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.8	115.2
145	31.5	24.2	36.4



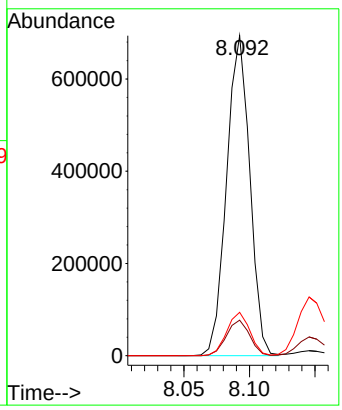


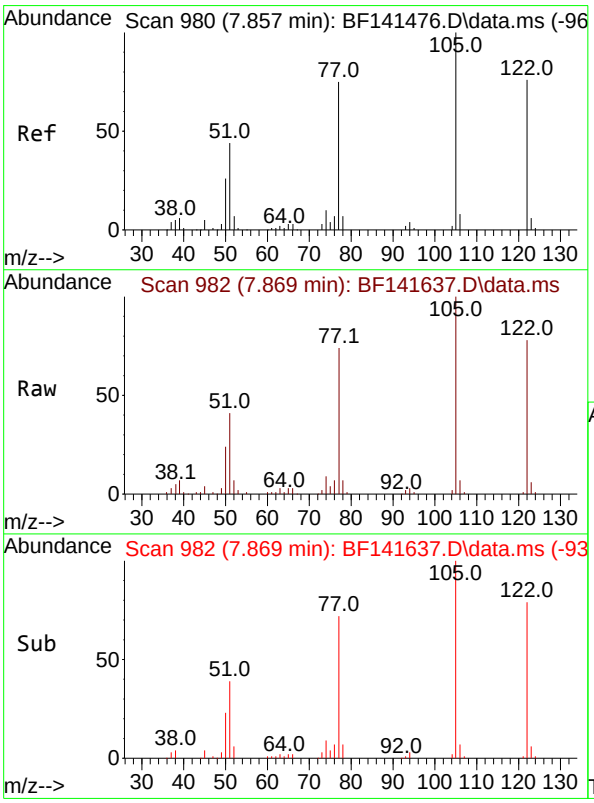
#31
Naphthalene
Concen: 39.029 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 853747

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.6	10.7	16.1

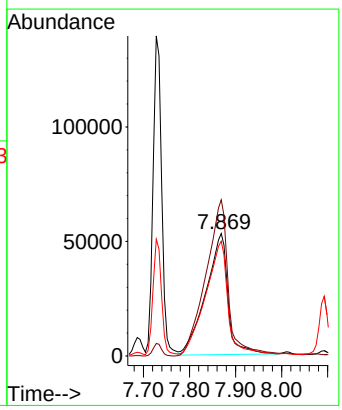


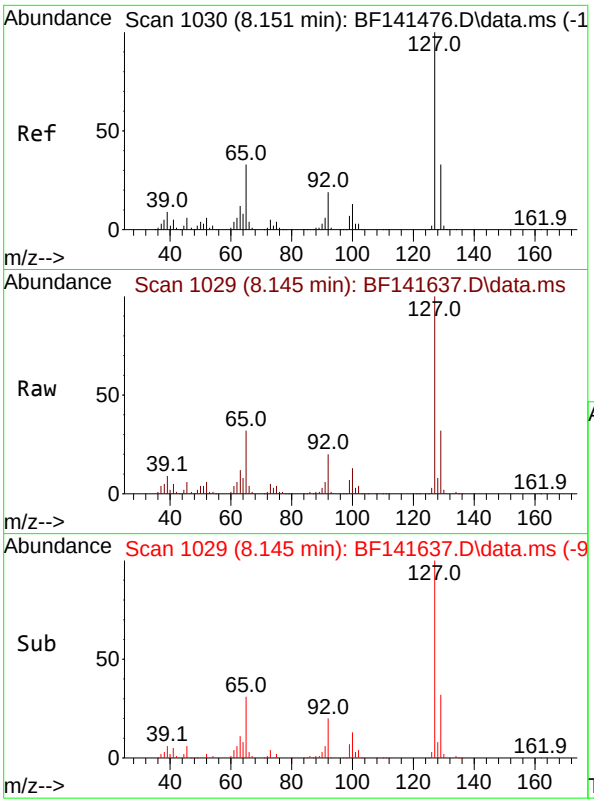


#32
Benzoic acid
Concen: 37.434 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.023 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:122 Resp: 177549

Ion	Ratio	Lower	Upper
122	100		
105	127.5	106.5	146.5
77	93.7	76.3	116.3



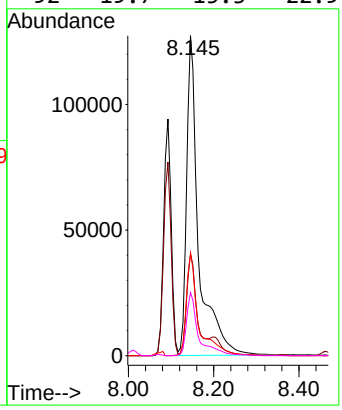


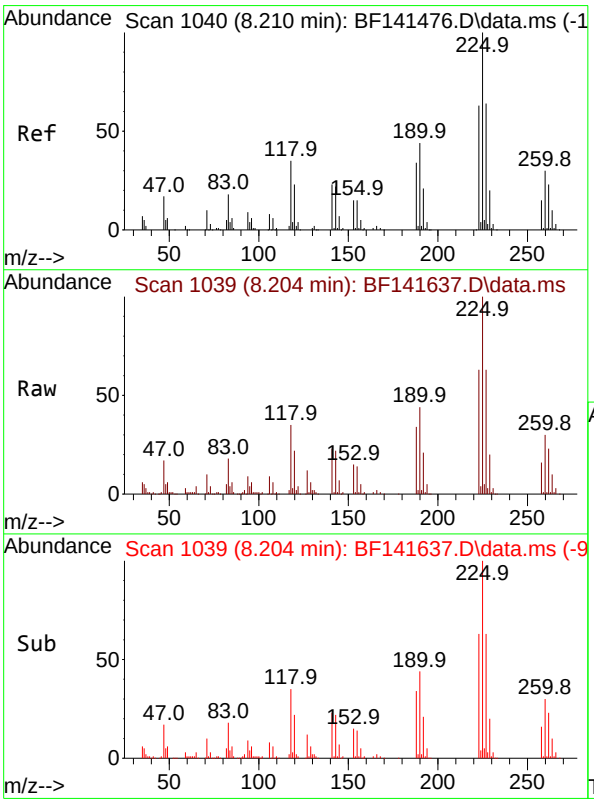
#33
4-Chloroaniline
Concen: 32.904 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 251295

Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.5	39.7
65	32.1	26.4	39.6
92	19.7	15.3	22.9

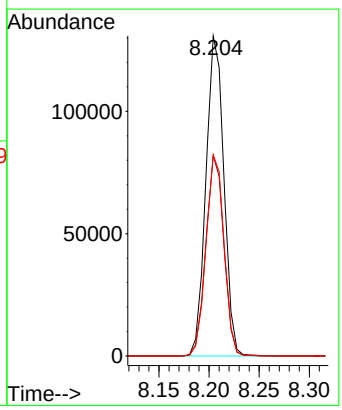


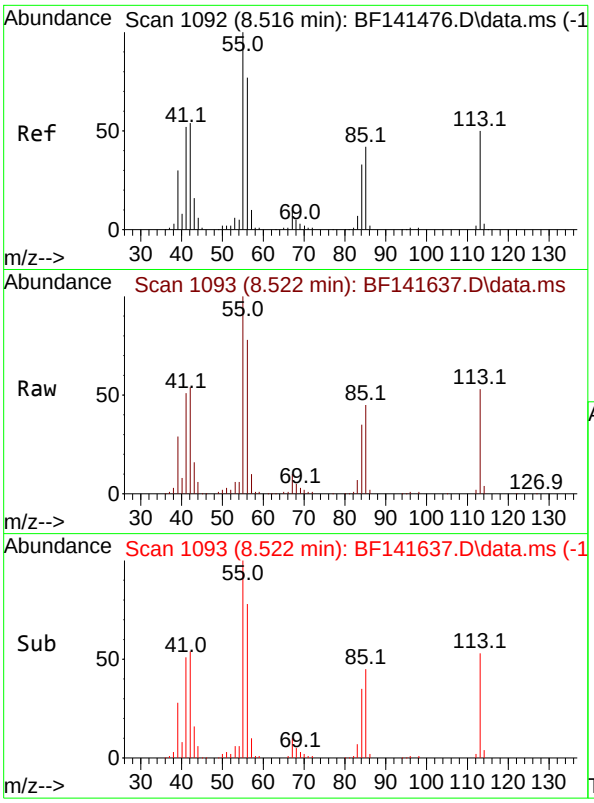


#34
Hexachlorobutadiene
Concen: 40.422 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:225 Resp: 163037

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	62.8	51.0	76.6



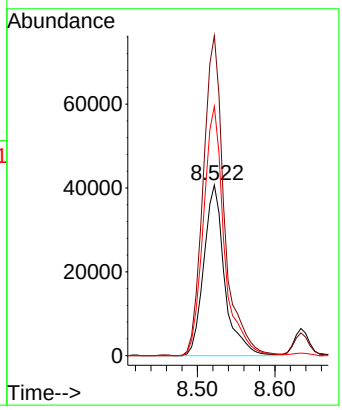


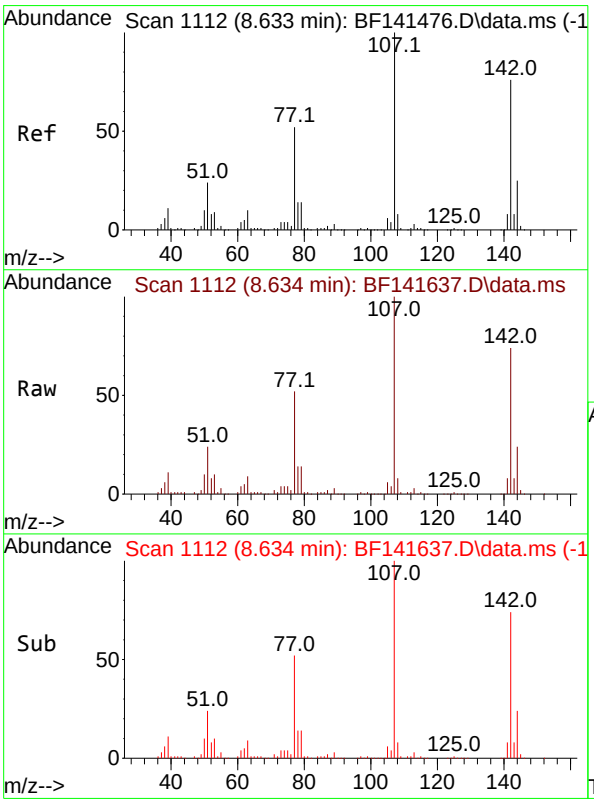
#35
Caprolactam
Concen: 40.400 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 75890

Ion	Ratio	Lower	Upper
113	100		
55	187.5	180.8	220.8
56	146.1	133.6	173.6

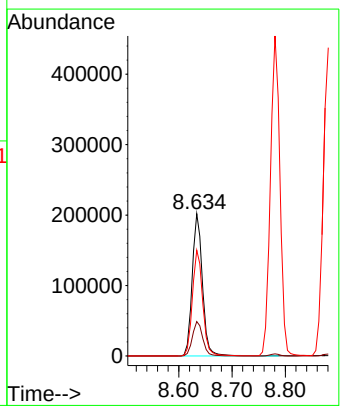


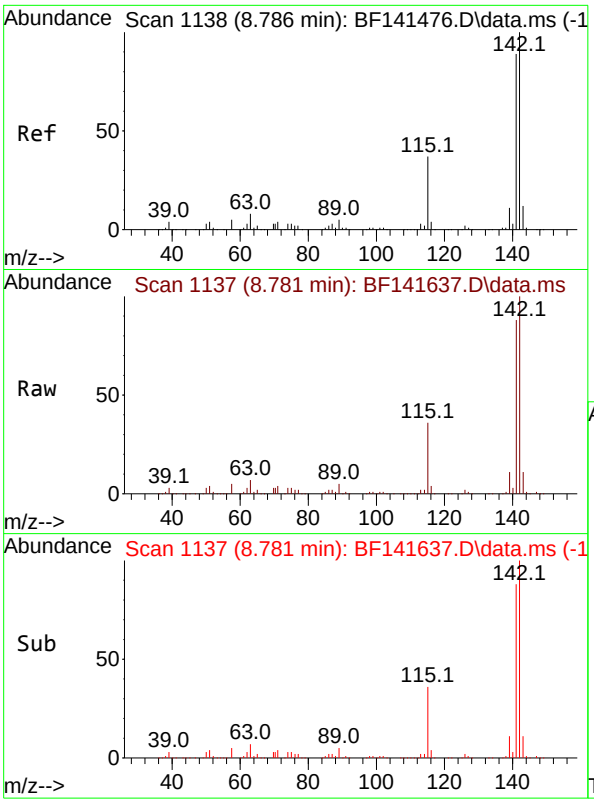


#36
4-Chloro-3-methylphenol
Concen: 39.466 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:107 Resp: 269716

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.7	29.5
142	74.4	60.8	91.2



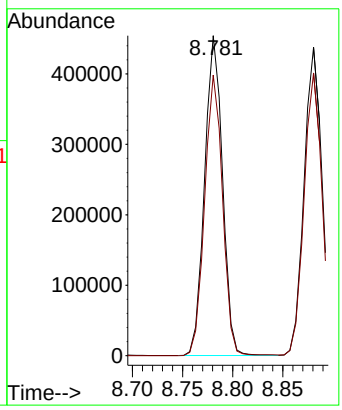


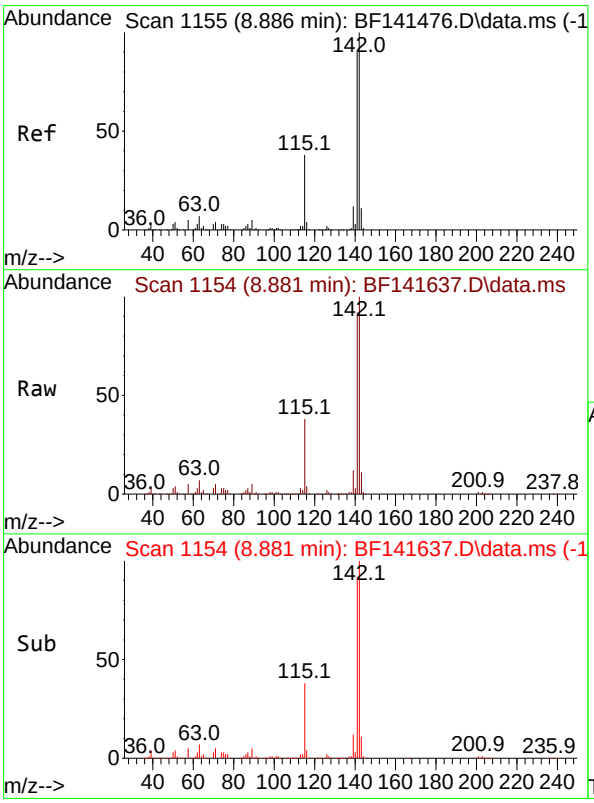
#37
2-Methylnaphthalene
Concen: 39.691 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 564984

Ion	Ratio	Lower	Upper
142	100		
141	87.7	71.2	106.8

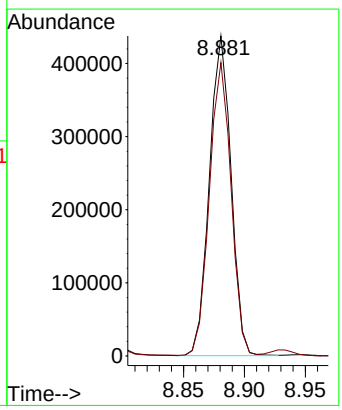


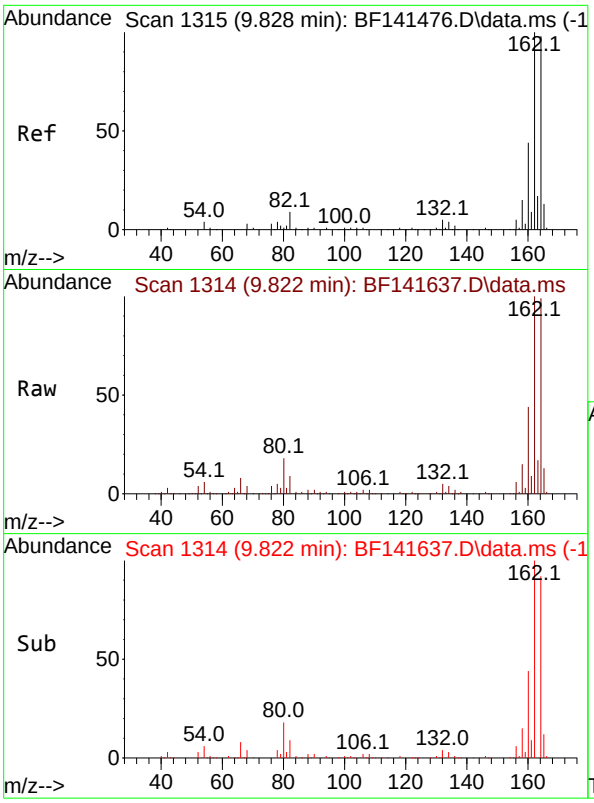


#38
1-Methylnaphthalene
Concen: 39.266 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:142 Resp: 541344

Ion	Ratio	Lower	Upper
142	100		
141	91.7	72.1	108.1



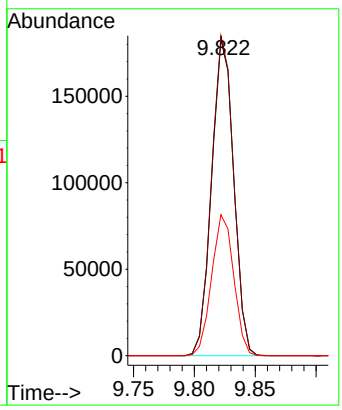


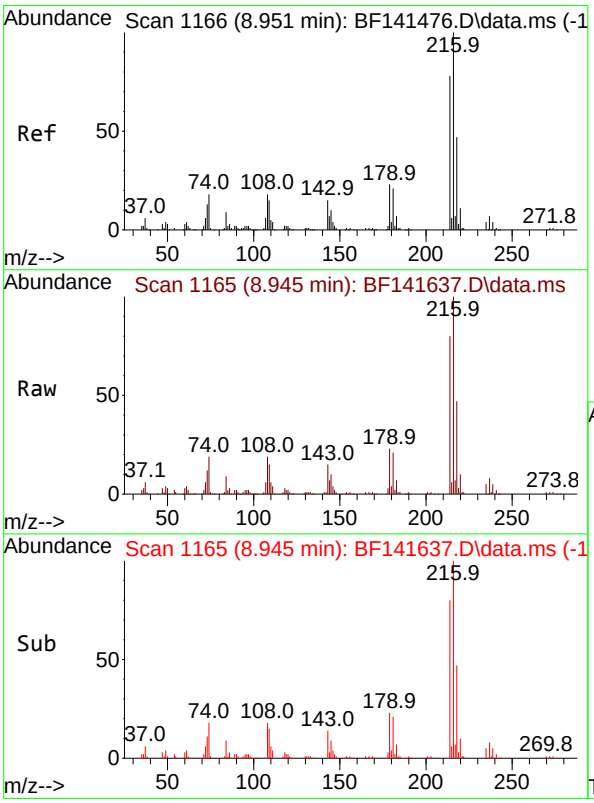
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 230255

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.3	121.9
160	44.6	35.9	53.9

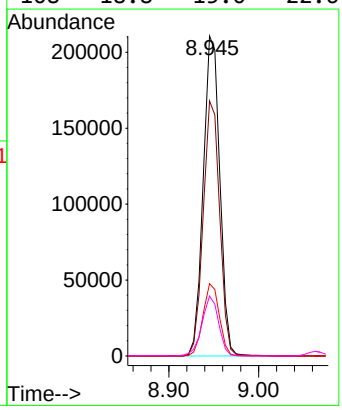


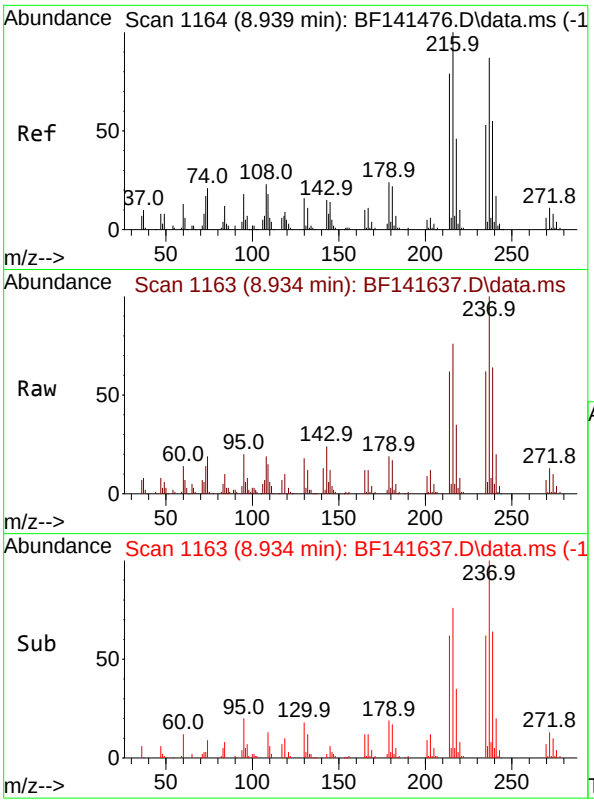


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.512 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:216 Resp: 269871

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	22.3	18.0	27.0
108	18.8	15.0	22.6



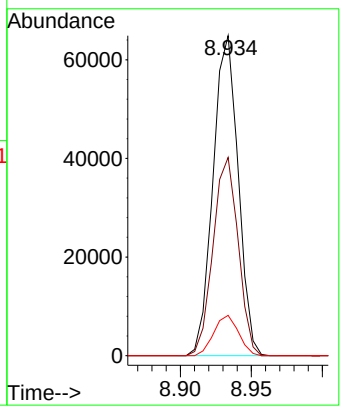


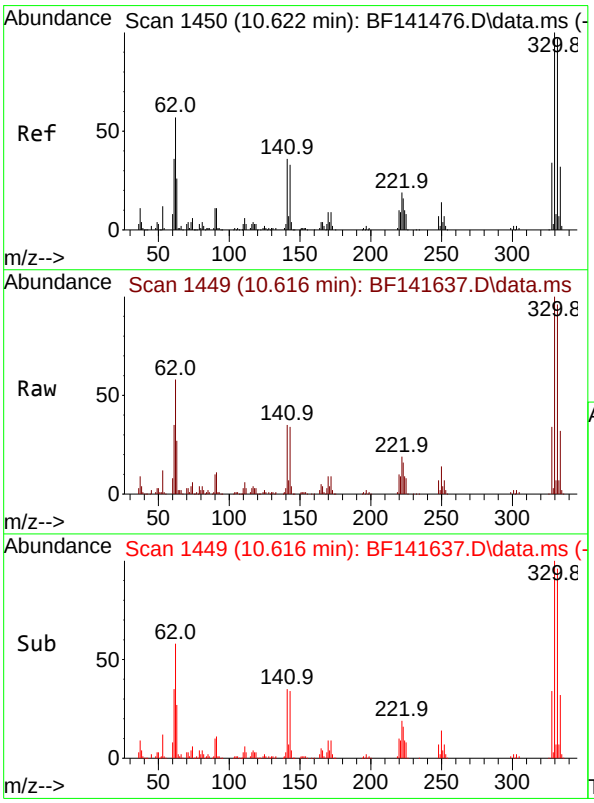
#41
Hexachlorocyclopentadiene
Concen: 35.979 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 79718

Ion	Ratio	Lower	Upper
237	100		
235	61.9	41.4	81.4
272	12.6	0.0	32.4

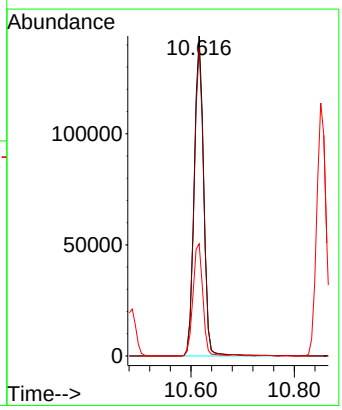


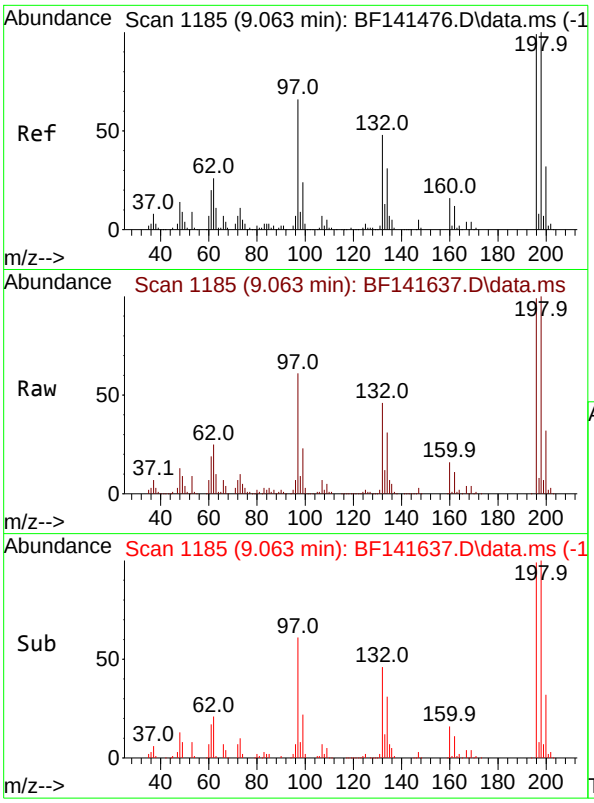


#42
2,4,6-Tribromophenol
Concen: 79.342 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:330 Resp: 183520

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.5	117.7
141	36.2	31.0	46.4



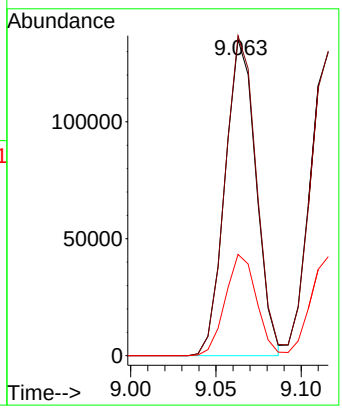


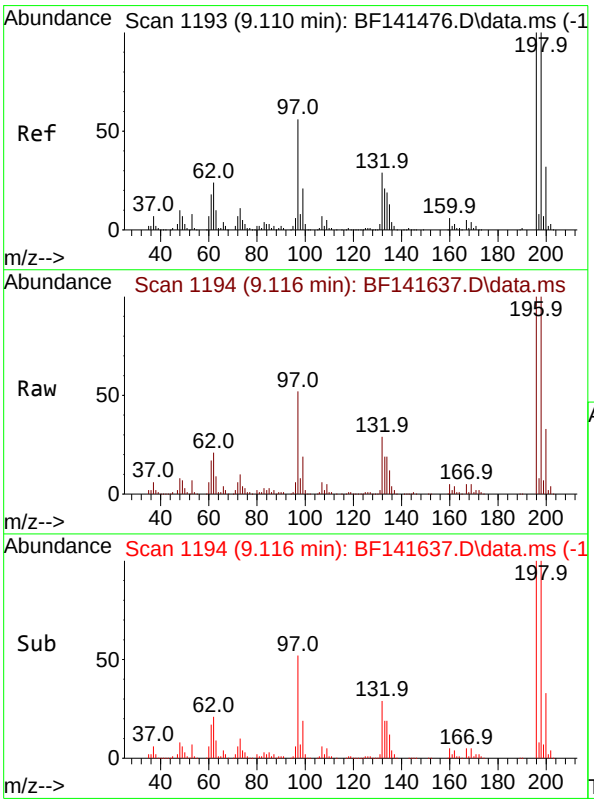
#43
2,4,6-Trichlorophenol
Concen: 39.740 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 171097

Ion	Ratio	Lower	Upper
196	100		
198	101.3	80.6	121.0
200	32.1	25.5	38.3

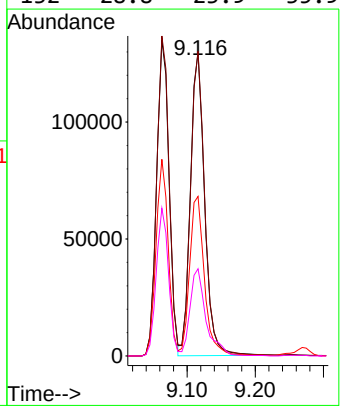


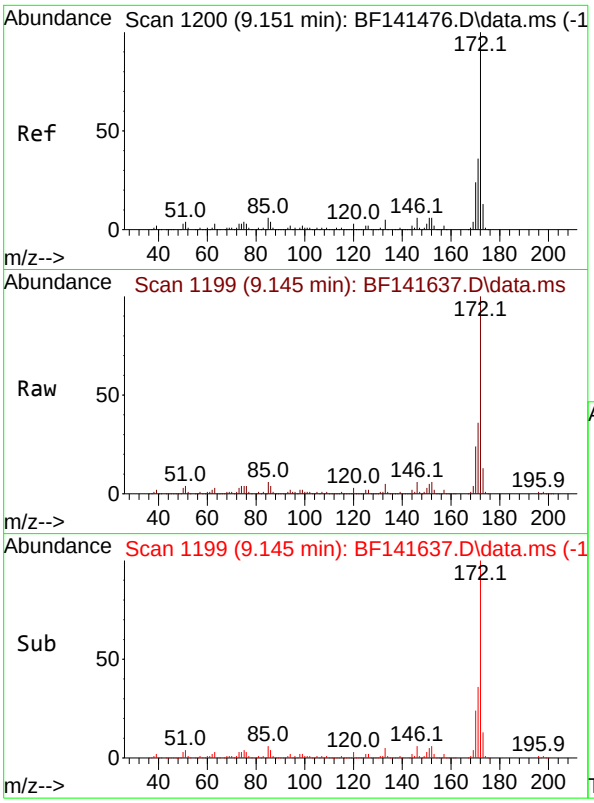


#44
2,4,5-Trichlorophenol
Concen: 40.088 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:196 Resp: 187057

Ion	Ratio	Lower	Upper
196	100		
198	100.4	79.8	119.8
97	52.5	44.8	67.2
132	28.8	23.9	35.9



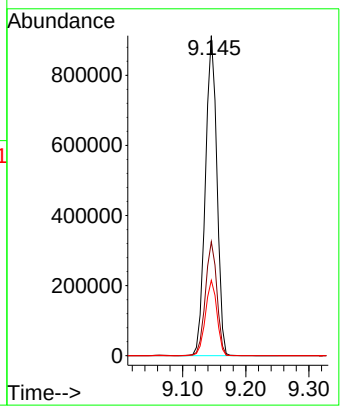


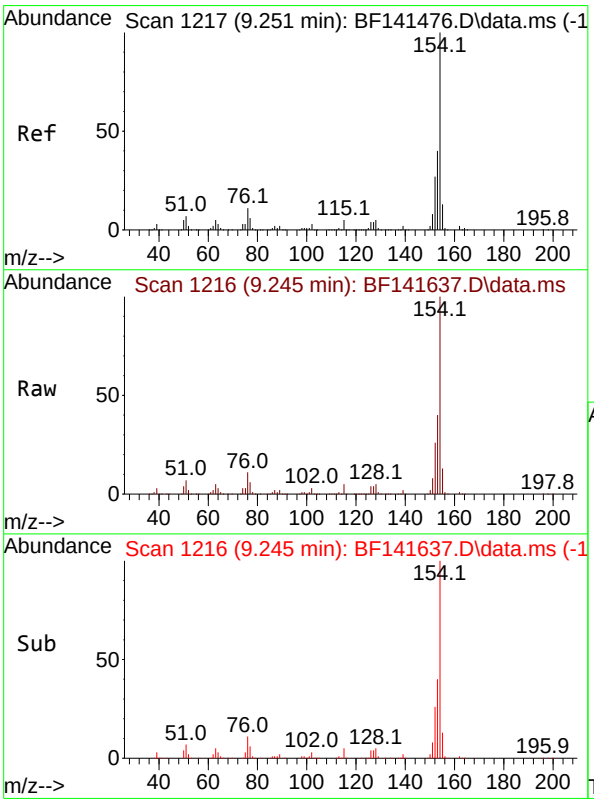
#45
2-Fluorobiphenyl
Concen: 77.735 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 1161773

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.5	18.9	28.3

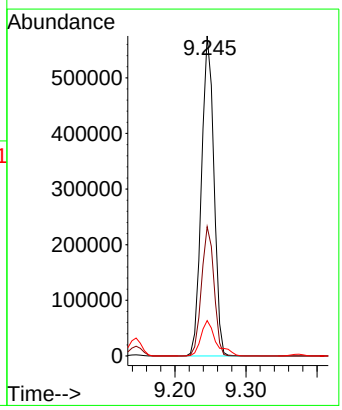


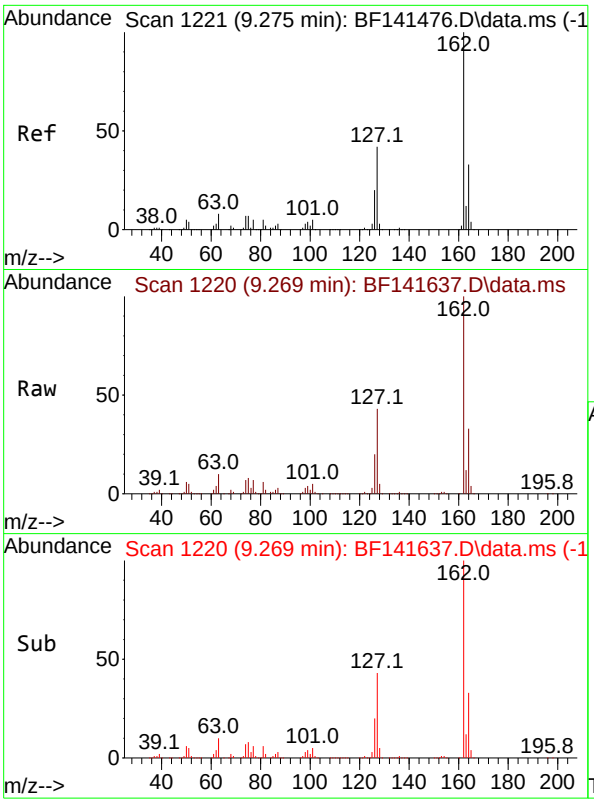


#46
1,1'-Biphenyl
Concen: 39.400 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:154 Resp: 703331

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.4	60.4
76	11.0	0.0	30.8



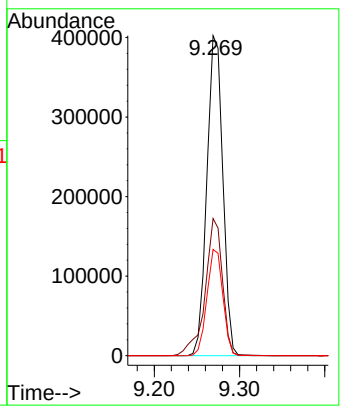


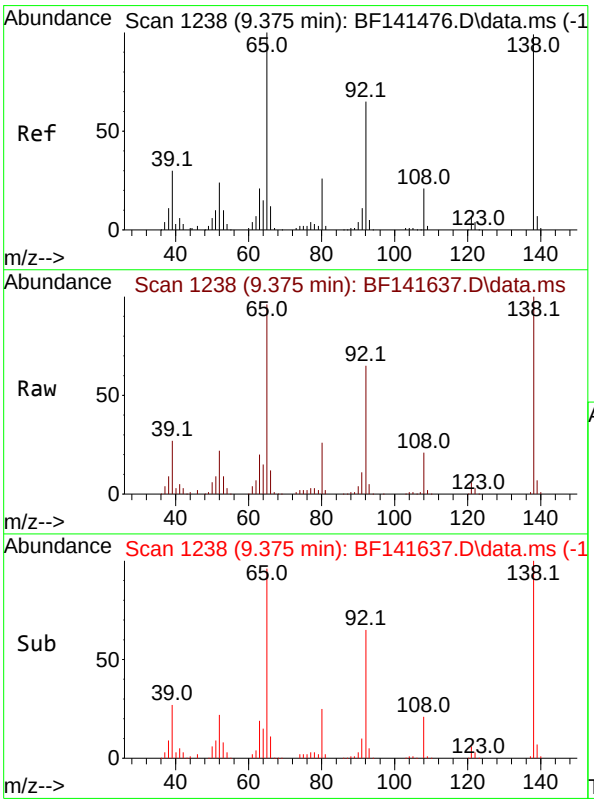
#47
2-Chloronaphthalene
Concen: 39.528 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 521785

Ion	Ratio	Lower	Upper
162	100		
127	42.9	34.1	51.1
164	33.2	26.3	39.5

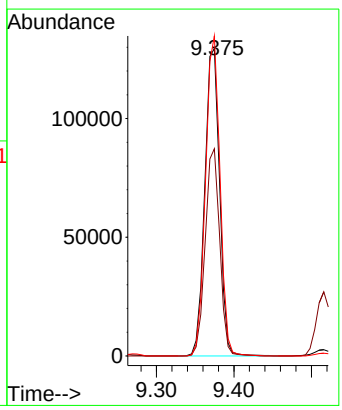


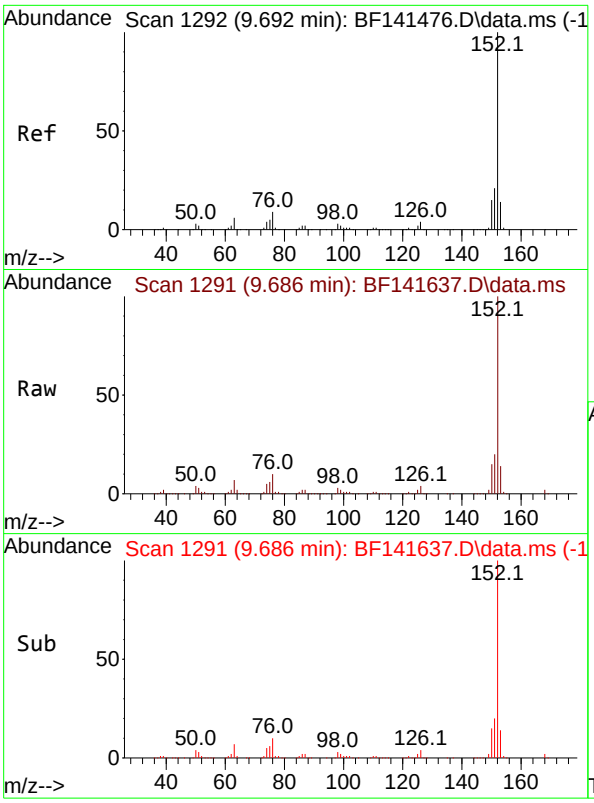


#48
2-Nitroaniline
Concen: 38.712 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion: 65 Resp: 171498

Ion	Ratio	Lower	Upper
65	100		
92	67.4	52.2	78.2
138	104.1	79.5	119.3



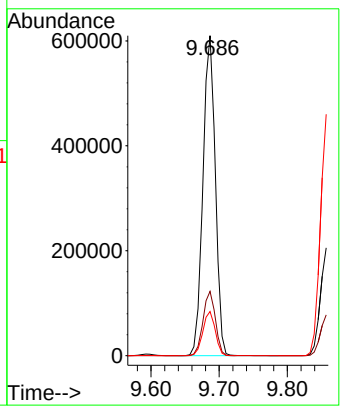


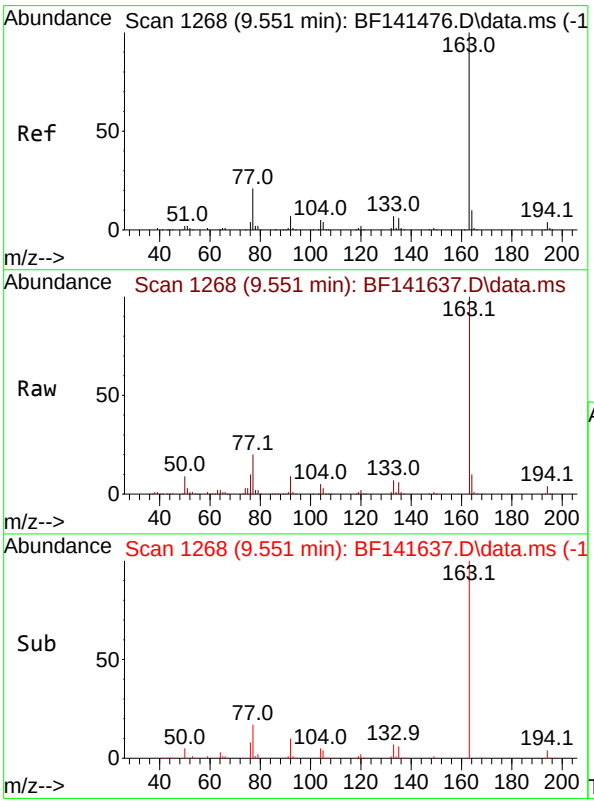
#49
Acenaphthylene
Concen: 39.181 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 769280

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6
153	13.8	10.9	16.3

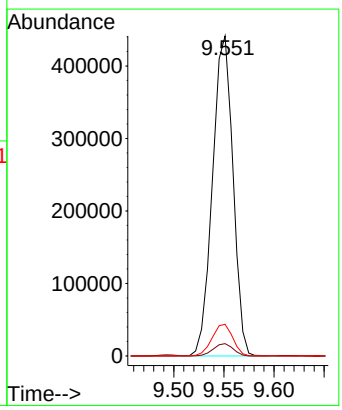


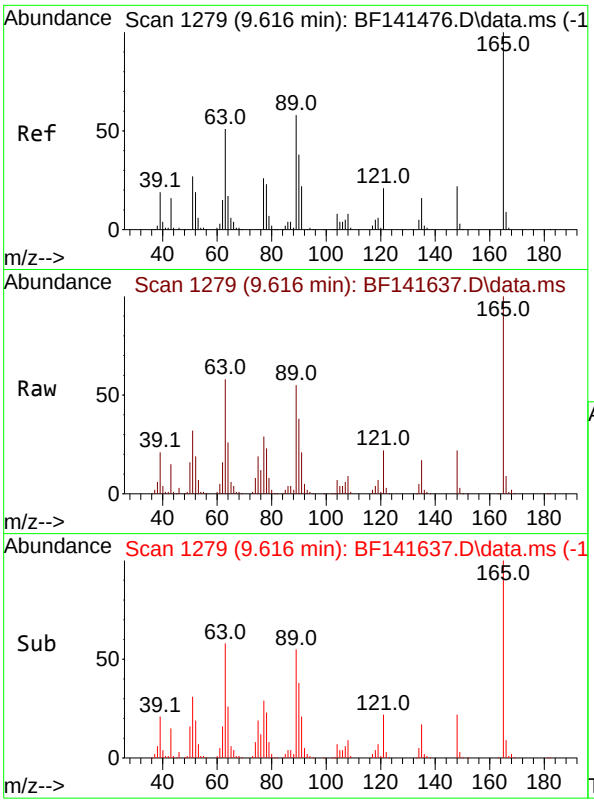


#50
Dimethylphthalate
Concen: 40.075 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:163 Resp: 626430

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.4
164	9.9	7.9	11.9



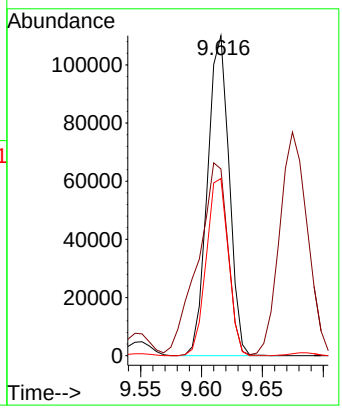


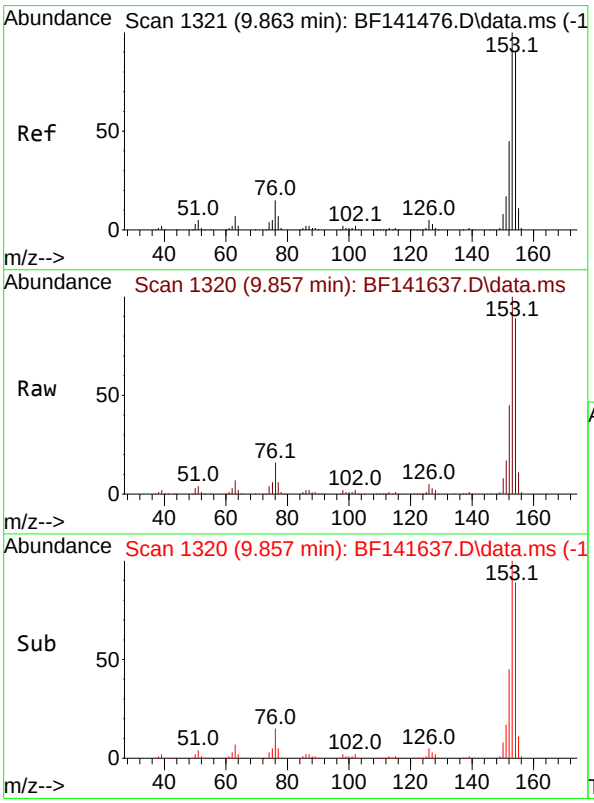
#51
2,6-Dinitrotoluene
Concen: 39.756 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 135852

Ion	Ratio	Lower	Upper
165	100		
63	58.3	49.4	74.0
89	55.4	46.5	69.7

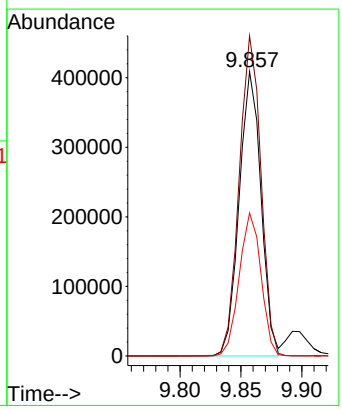


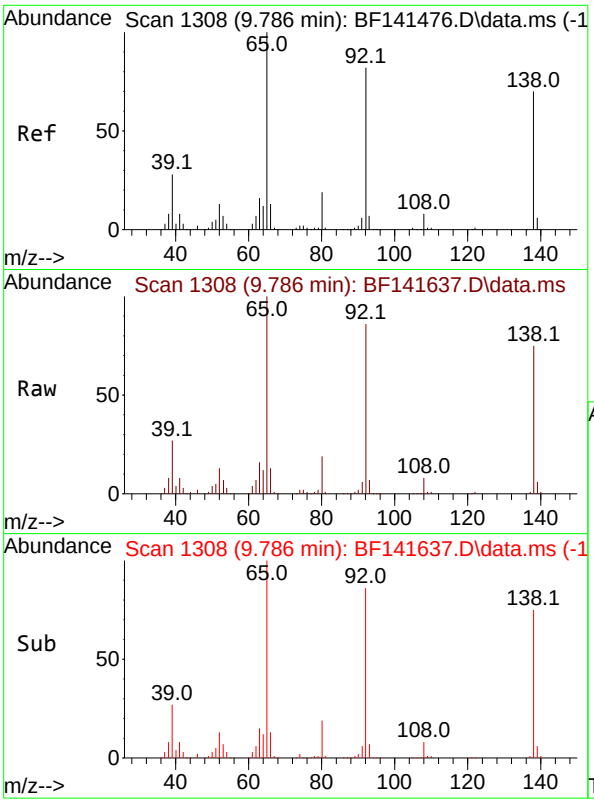


#52
Acenaphthene
Concen: 38.593 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:154 Resp: 509416

Ion	Ratio	Lower	Upper
154	100		
153	112.6	89.2	133.8
152	50.3	39.8	59.8



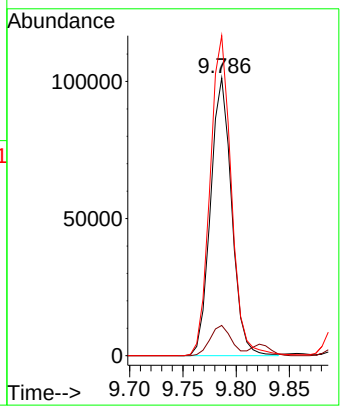


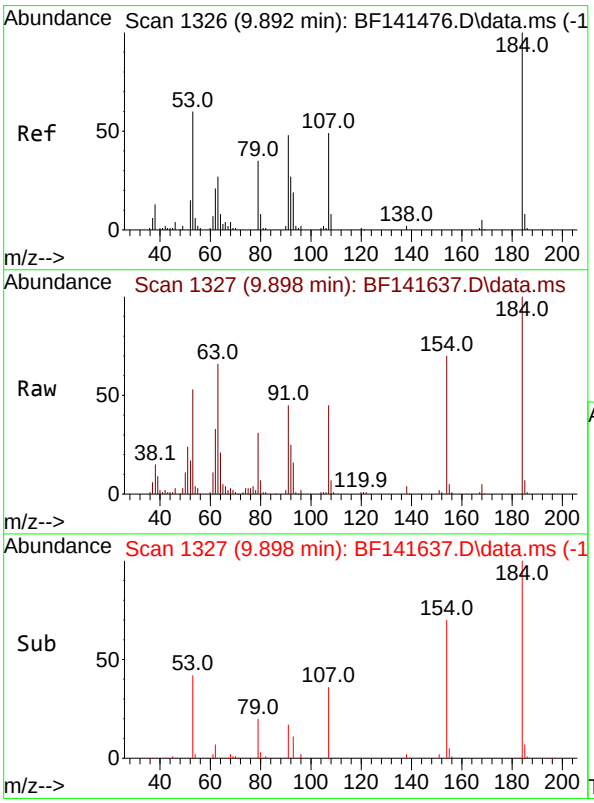
#53
3-Nitroaniline
Concen: 37.892 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 139362

Ion	Ratio	Lower	Upper
138	100		
108	10.9	9.0	13.4
92	115.2	93.7	140.5

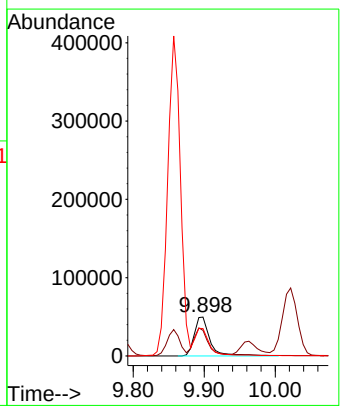


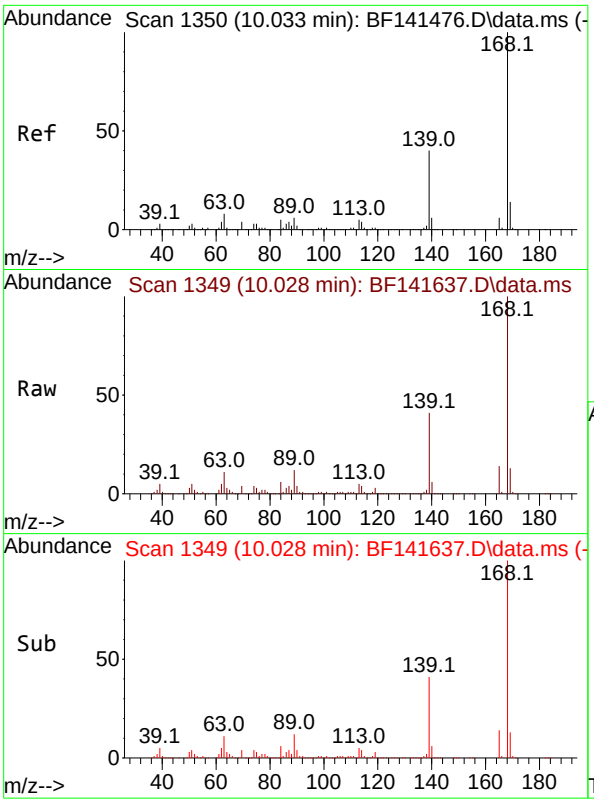


#54
2,4-Dinitrophenol
Concen: 37.868 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:184 Resp: 76906

Ion	Ratio	Lower	Upper
184	100		
63	66.0	61.0	91.6
154	70.5	59.9	89.9



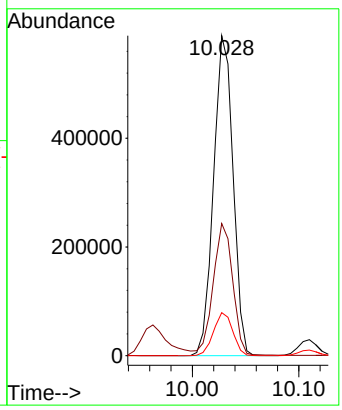


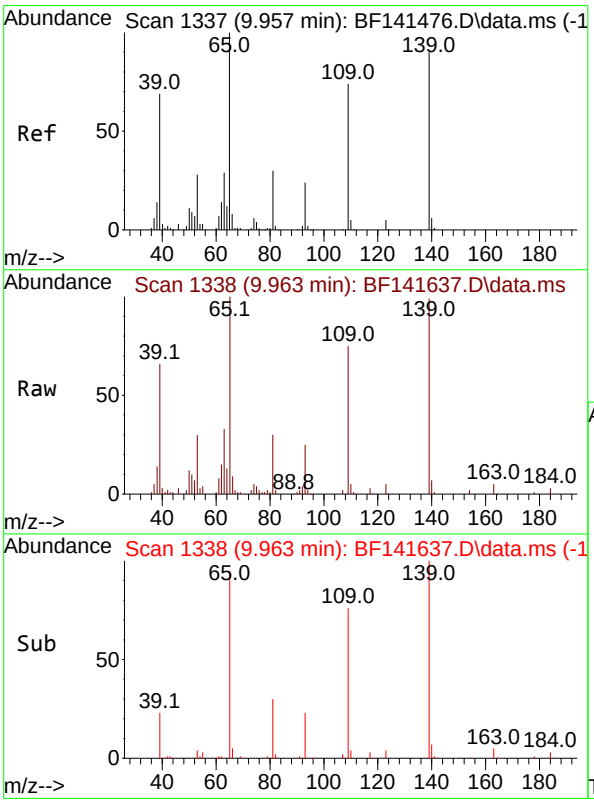
#55
Dibenzofuran
Concen: 38.559 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 747087

Ion	Ratio	Lower	Upper
168	100		
139	41.3	32.7	49.1
169	13.5	10.8	16.2

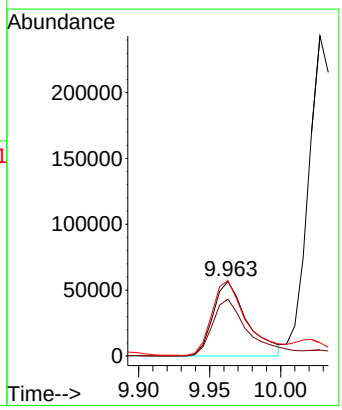


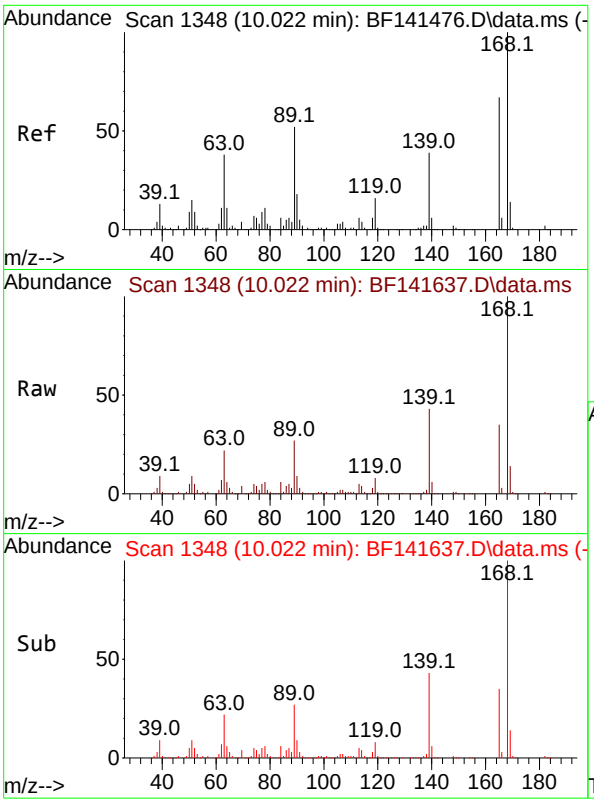


#56
4-Nitrophenol
Concen: 34.787 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:139 Resp: 94975

Ion	Ratio	Lower	Upper
139	100		
109	76.2	62.0	102.0
65	101.0	91.2	131.2



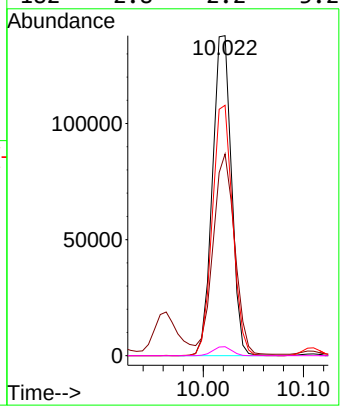


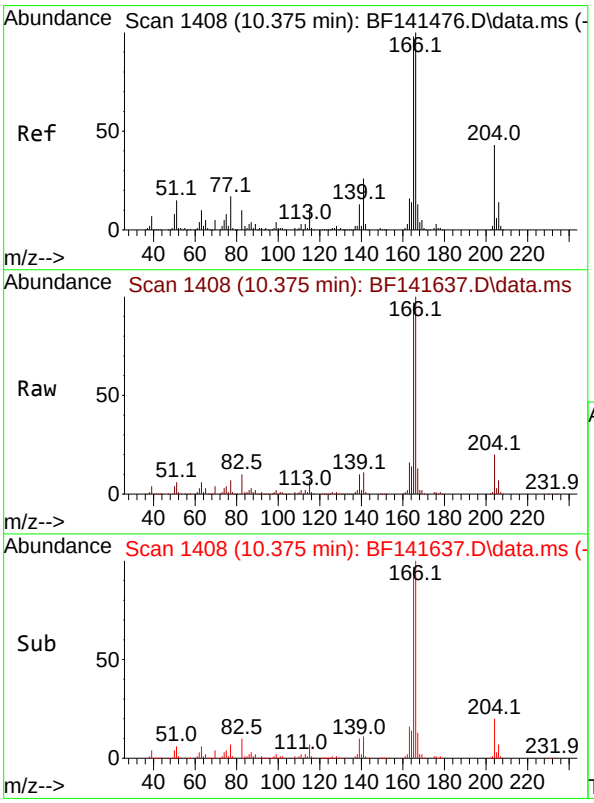
#57
2,4-Dinitrotoluene
Concen: 39.993 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 181929

Ion	Ratio	Lower	Upper
165	100		
63	63.0	46.4	69.6
89	78.2	61.8	92.6
182	2.8	2.2	3.2

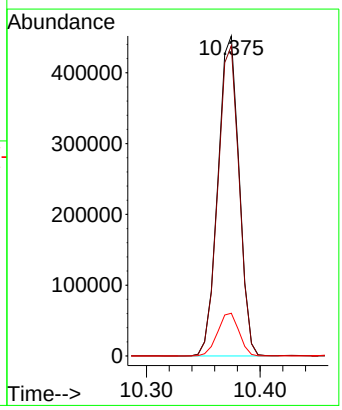


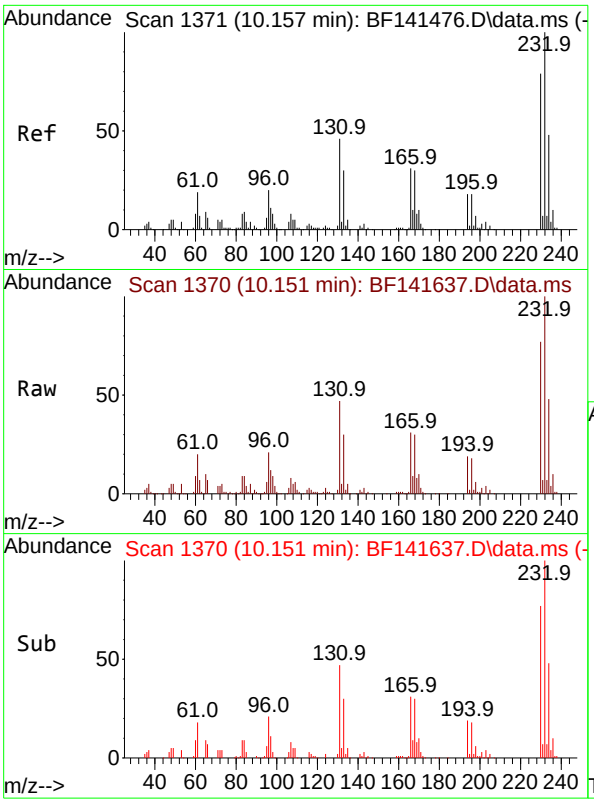


#58
Fluorene
Concen: 39.075 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:166 Resp: 585369

Ion	Ratio	Lower	Upper
166	100		
165	97.0	78.2	117.2
167	13.4	10.7	16.1



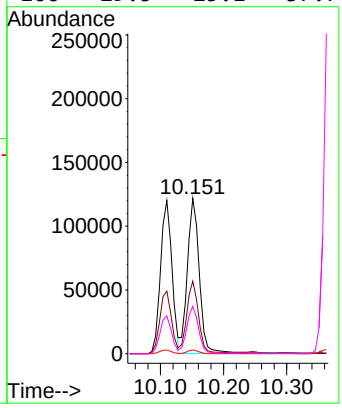


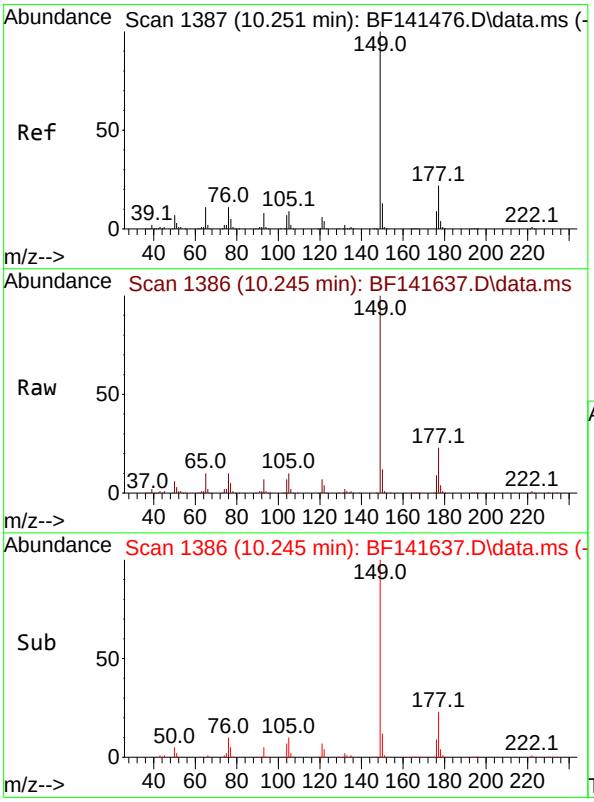
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.840 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 160045

Ion	Ratio	Lower	Upper
232	100		
131	45.3	39.2	58.8
130	2.3	2.1	3.1
166	29.5	25.1	37.7

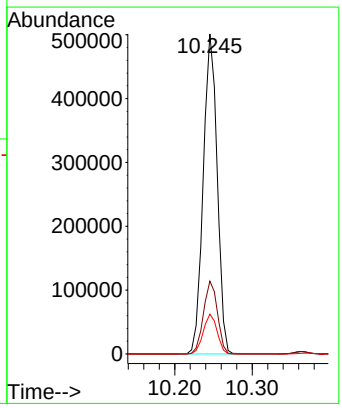


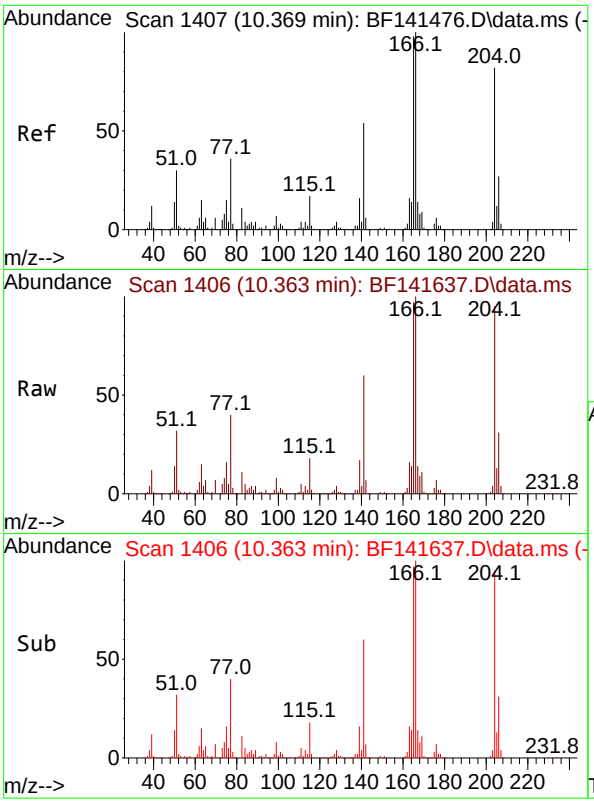


#60
Diethylphthalate
Concen: 40.698 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:149 Resp: 625908

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.8	26.6
150	12.4	10.1	15.1



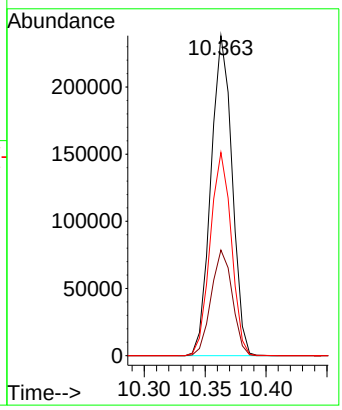


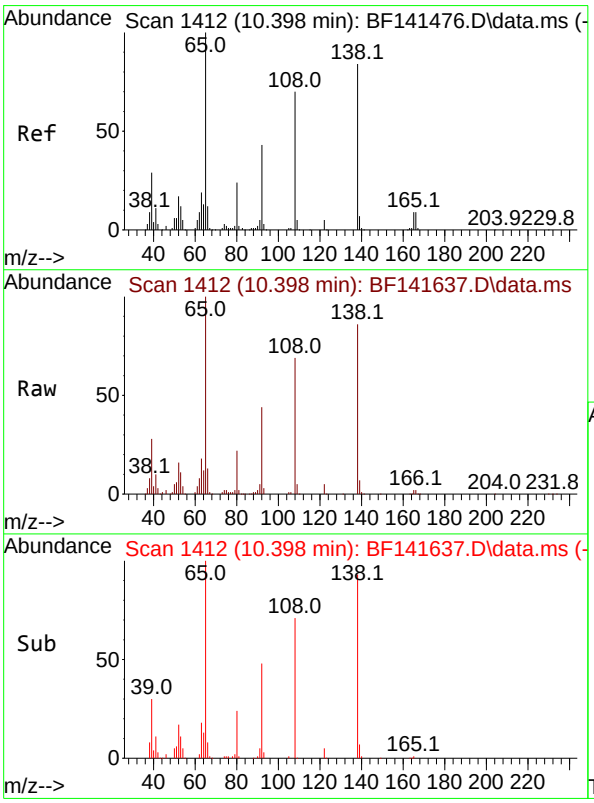
#61
4-Chlorophenyl-phenylether
Concen: 40.025 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 288463

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.6	40.0
141	63.5	51.9	77.9

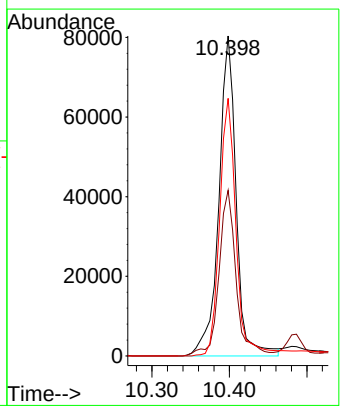


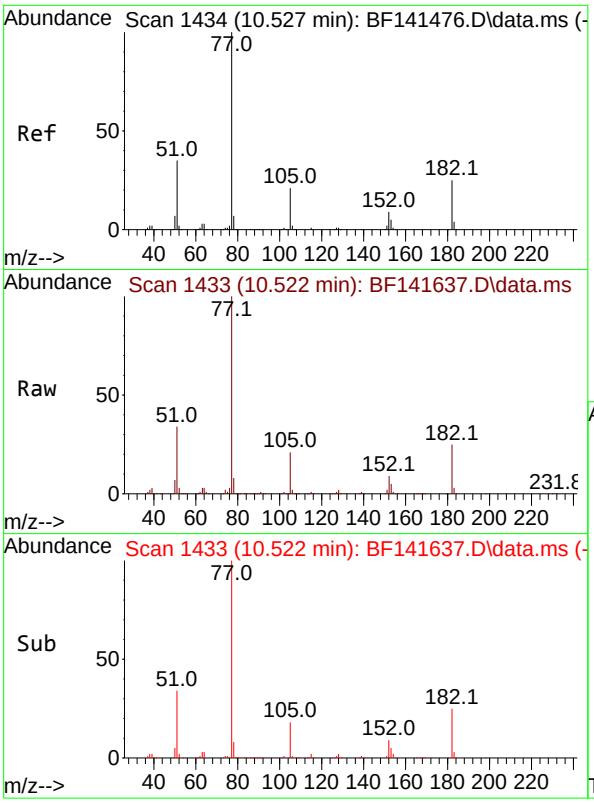


#62
4-Nitroaniline
Concen: 33.451 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:138 Resp: 124924

Ion	Ratio	Lower	Upper
138	100		
92	51.7	31.3	71.3
108	80.5	63.7	103.7



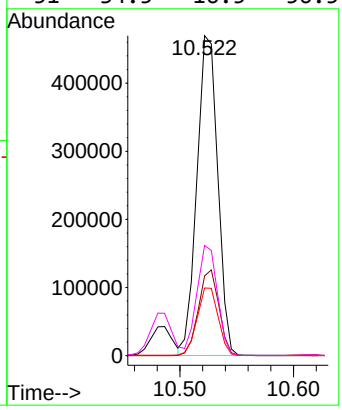


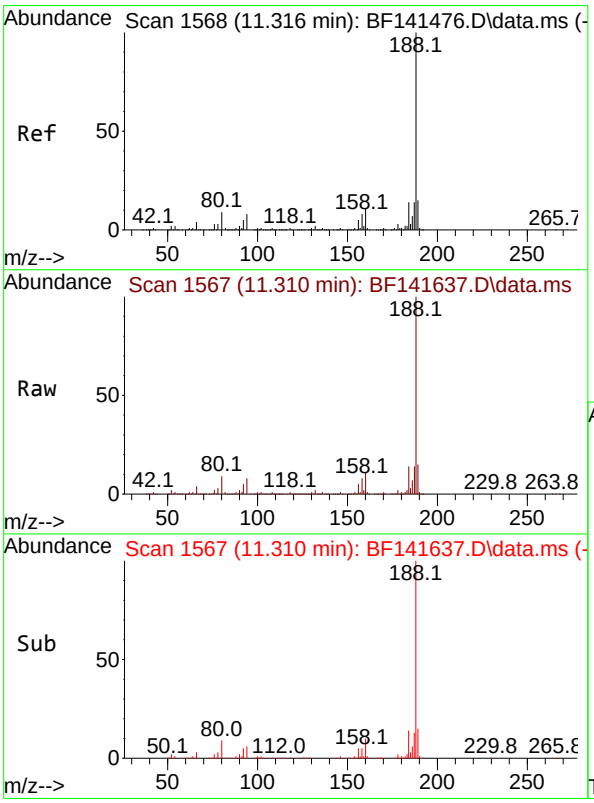
#63
Azobenzene
Concen: 39.247 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 600059

Ion	Ratio	Lower	Upper
77	100		
182	25.0	4.7	44.7
105	21.2	0.4	40.4
51	34.5	16.5	56.5

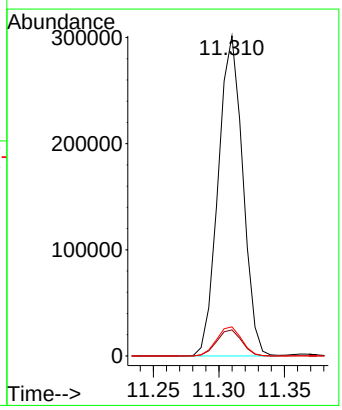


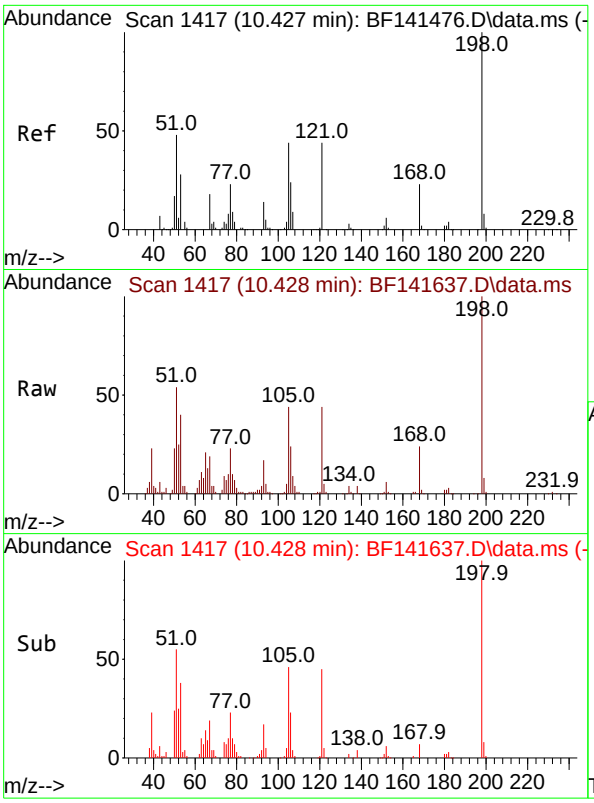


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:188 Resp: 392808

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.6	10.0
80	9.1	7.3	10.9



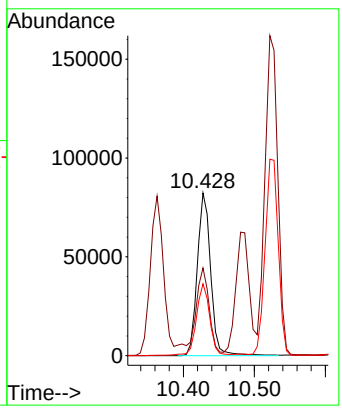


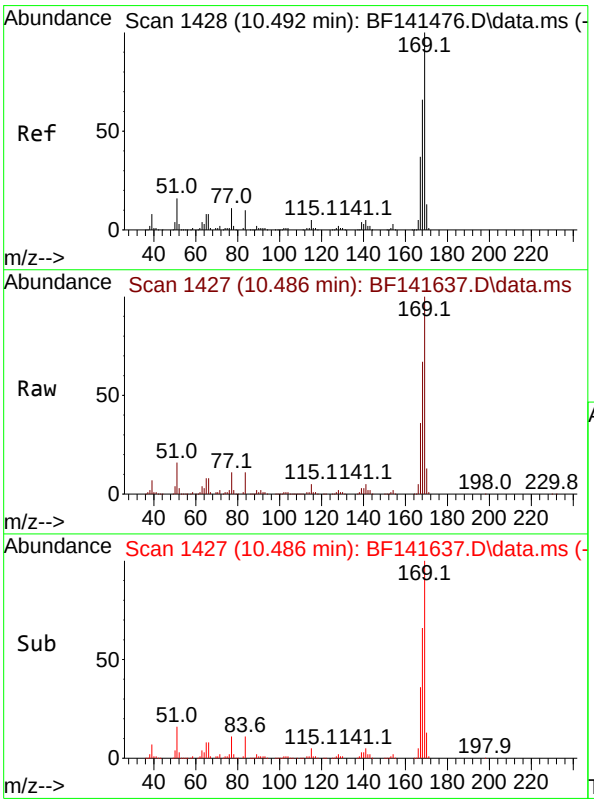
#65
4,6-Dinitro-2-methylphenol
Concen: 39.662 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 108225

Ion	Ratio	Lower	Upper
198	100		
51	53.9	37.4	77.4
105	44.2	25.2	65.2

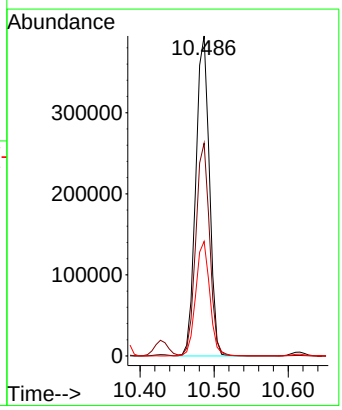


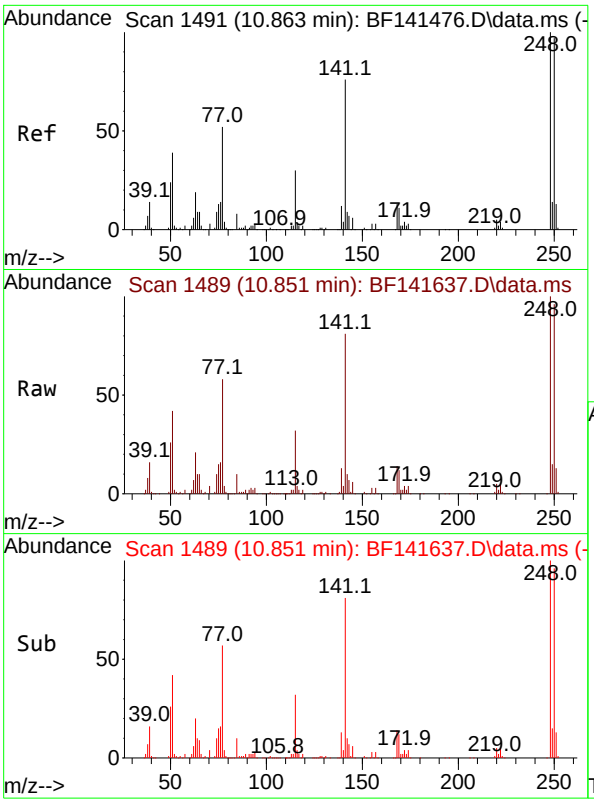


#66
n-Nitrosodiphenylamine
Concen: 39.954 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:169 Resp: 502383

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.3	79.9
167	35.8	29.4	44.2



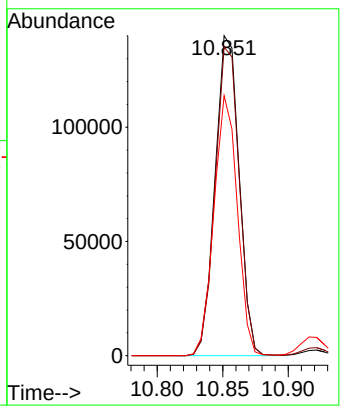


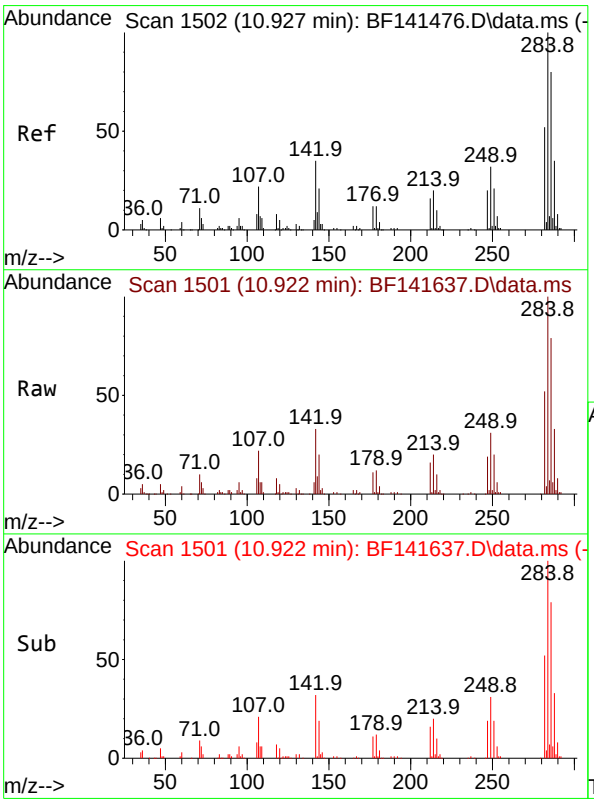
#67
4-Bromophenyl-phenylether
Concen: 40.829 ng
RT: 10.851 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 179244

Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.8	116.6
141	81.2	60.6	90.8

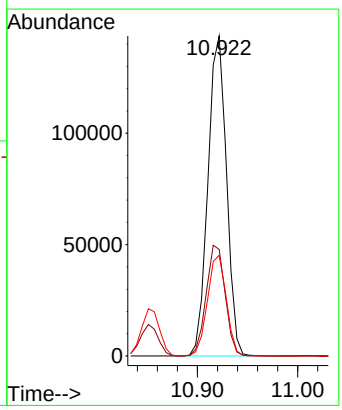


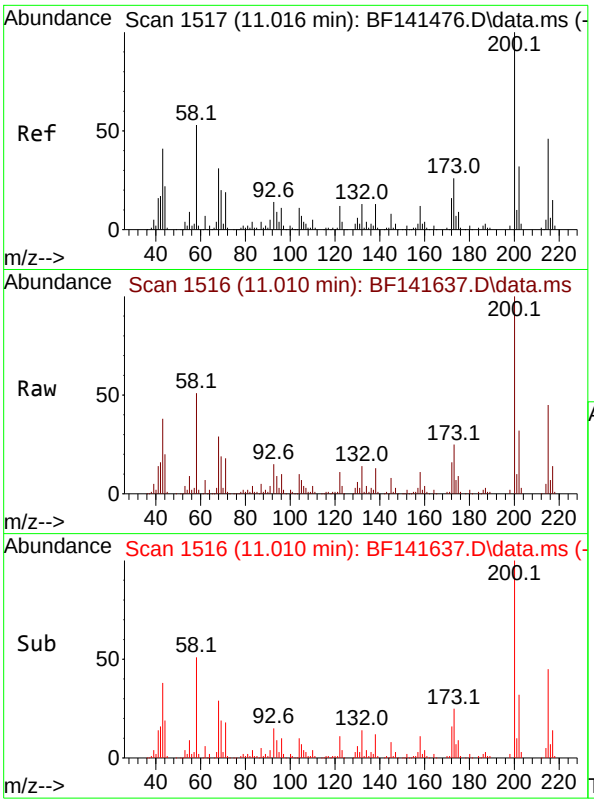


#68
Hexachlorobenzene
Concen: 40.943 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:284 Resp: 185090

Ion	Ratio	Lower	Upper
284	100		
142	33.3	28.0	42.0
249	31.5	25.8	38.8



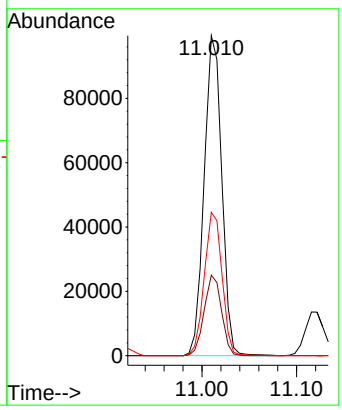


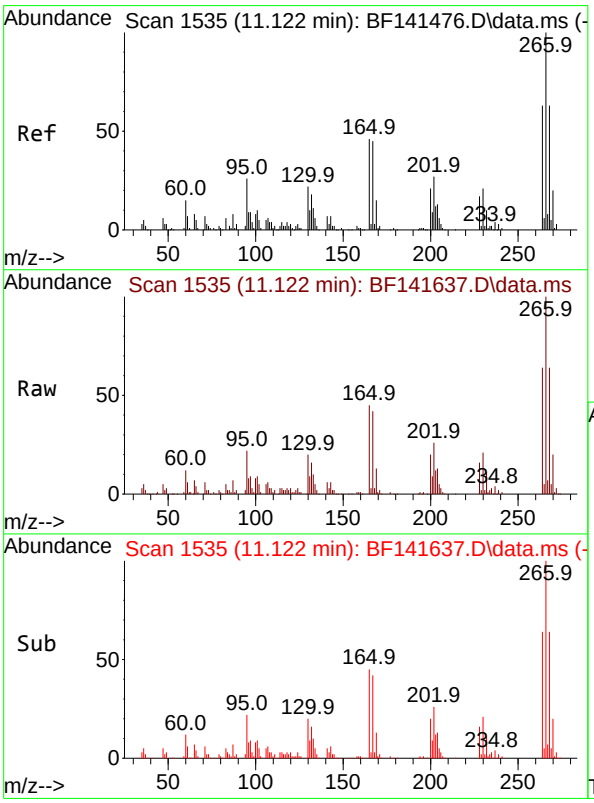
#69
Atrazine
Concen: 33.952 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 128077

Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.9	45.9
215	44.8	25.9	65.9

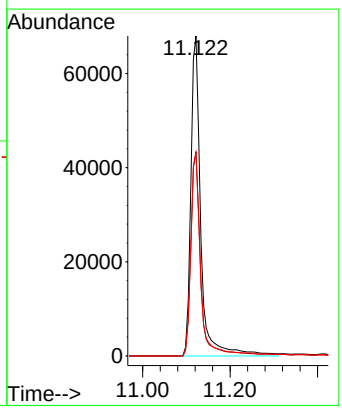


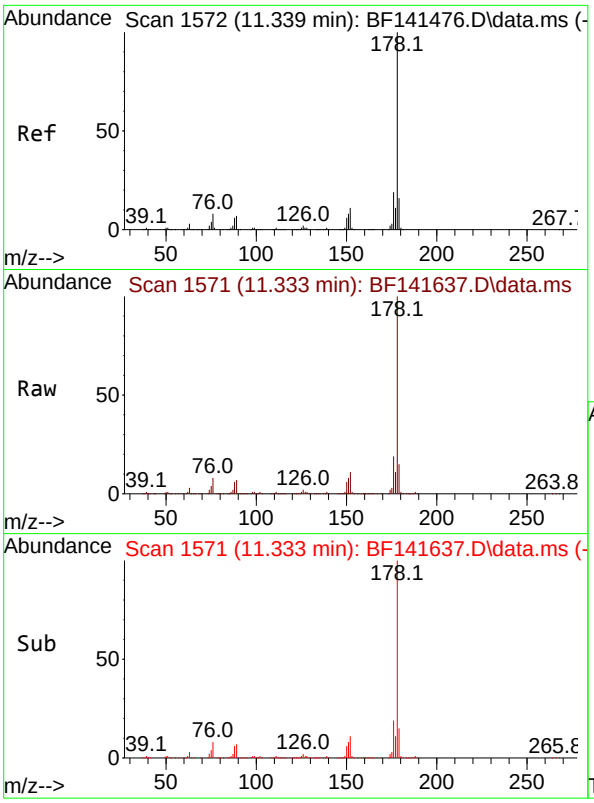


#70
Pentachlorophenol
Concen: 37.392 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:266 Resp: 108084

Ion	Ratio	Lower	Upper
266	100		
268	63.8	50.1	75.1
264	63.5	50.1	75.1



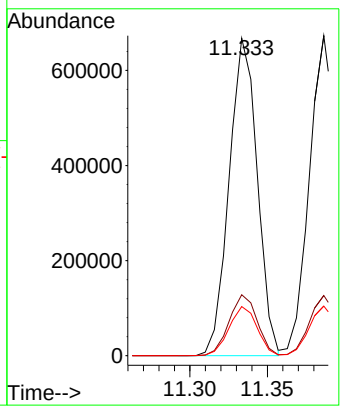


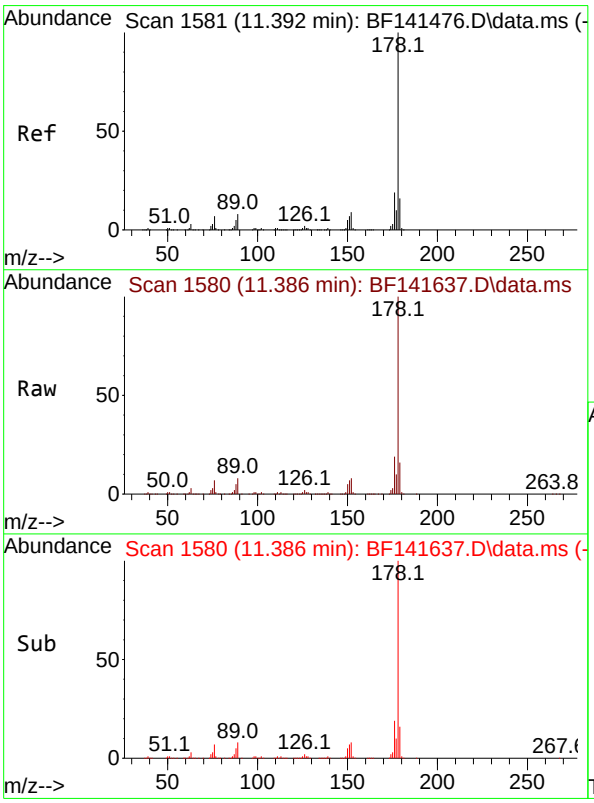
#71
Phenanthrene
Concen: 39.031 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 843942

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.5	12.4	18.6

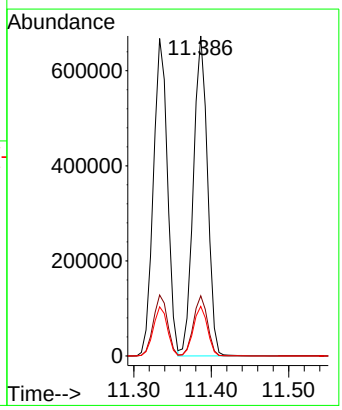


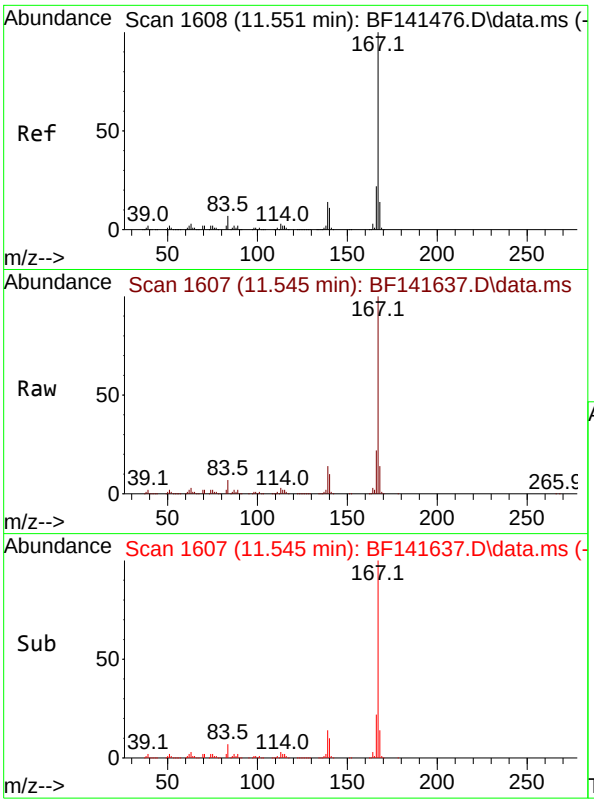


#72
Anthracene
Concen: 39.110 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:178 Resp: 850078

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.8	22.2
179	15.5	12.4	18.6



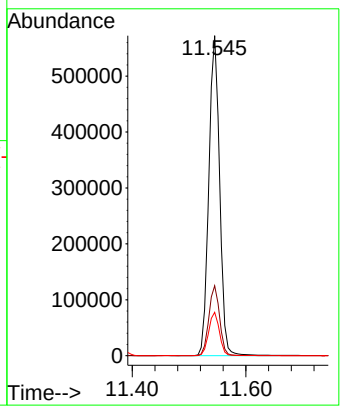


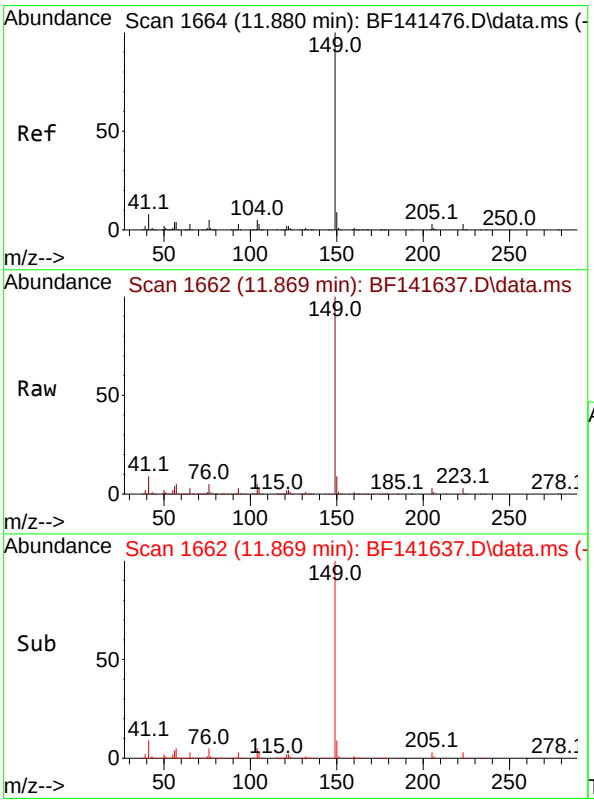
#73
Carbazole
Concen: 38.349 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 750015

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	13.6	10.9	16.3

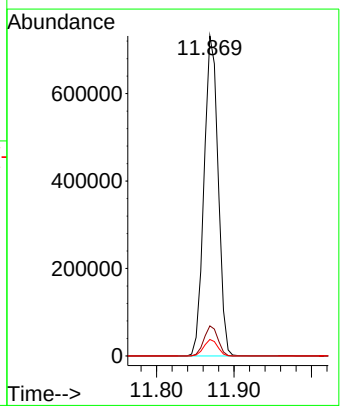


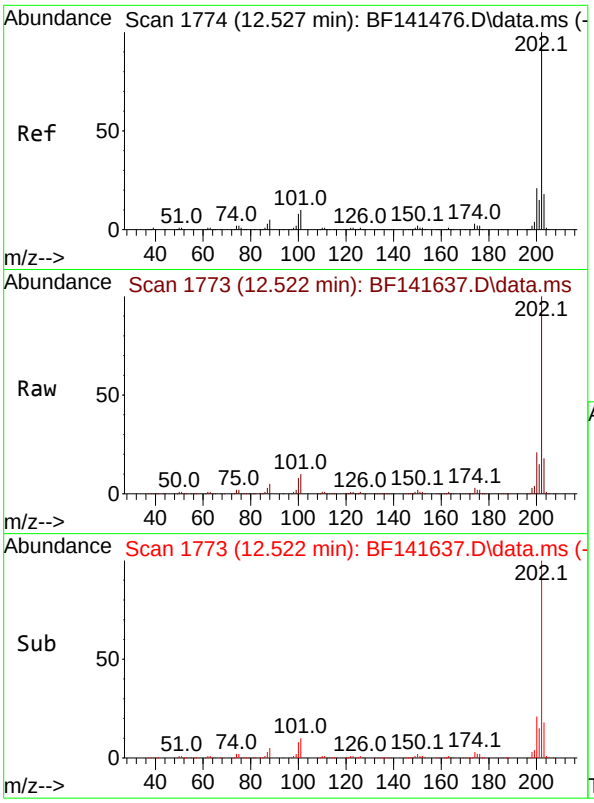


#74
Di-n-butylphthalate
Concen: 40.882 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:149 Resp: 923226

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.2	4.2	6.2



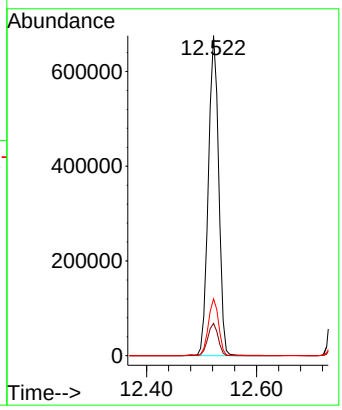


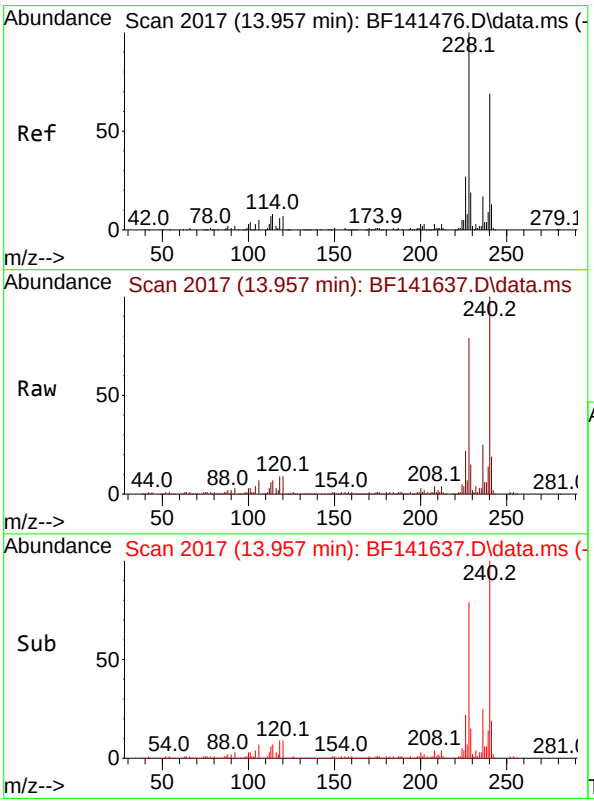
#75
Fluoranthene
Concen: 38.427 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 880902

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.8	0.0	37.6

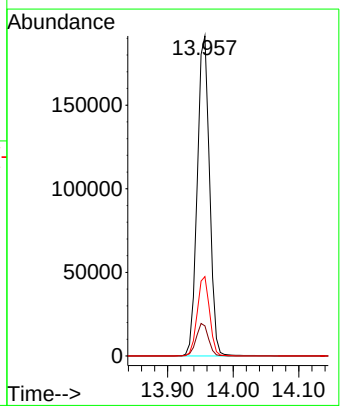


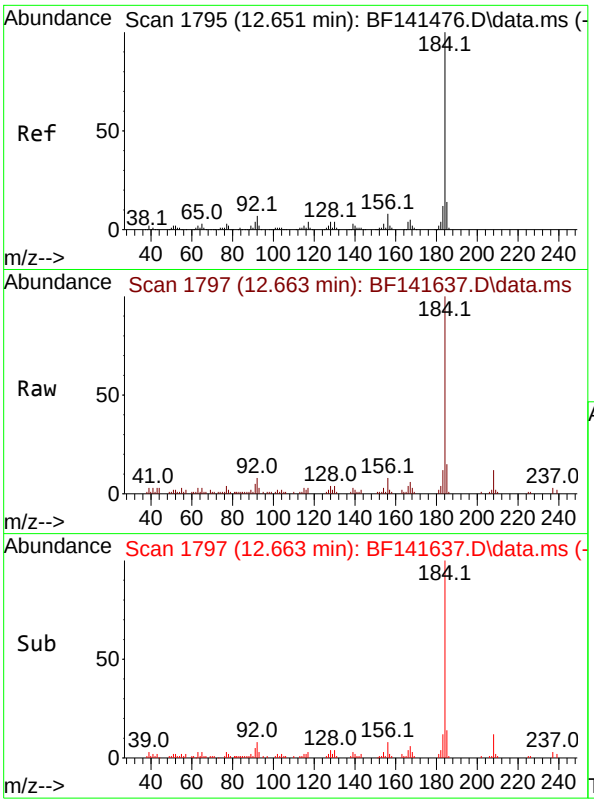


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:240 Resp: 249369

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.0	12.0
236	24.8	19.8	29.8



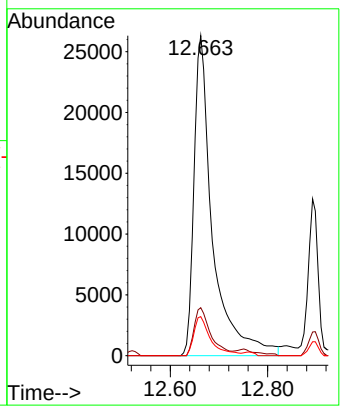


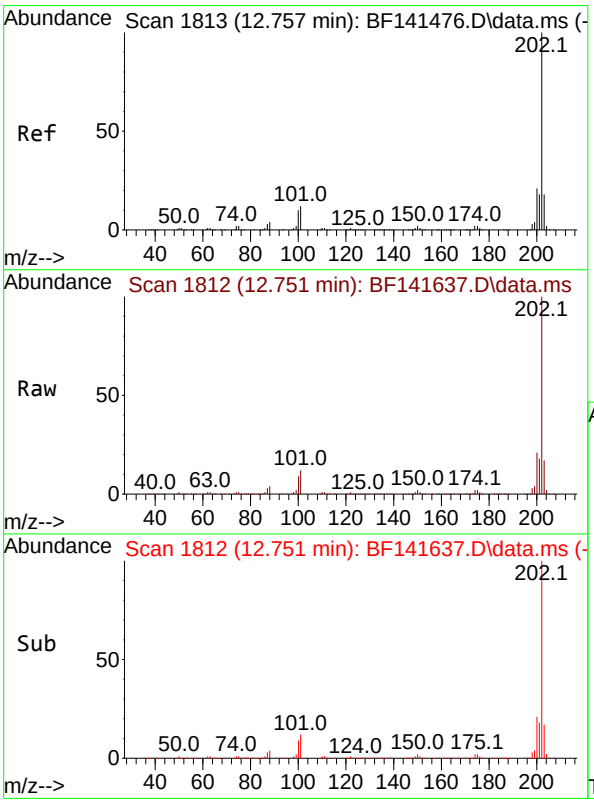
#77
Benzidine
Concen: 12.725 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 69985

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.3	16.9
183	12.2	9.3	13.9

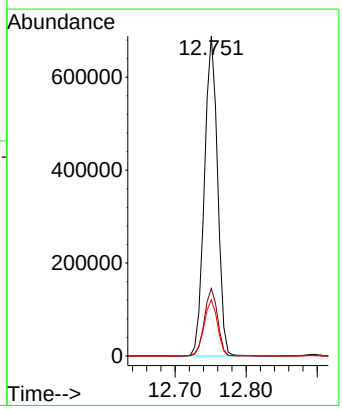


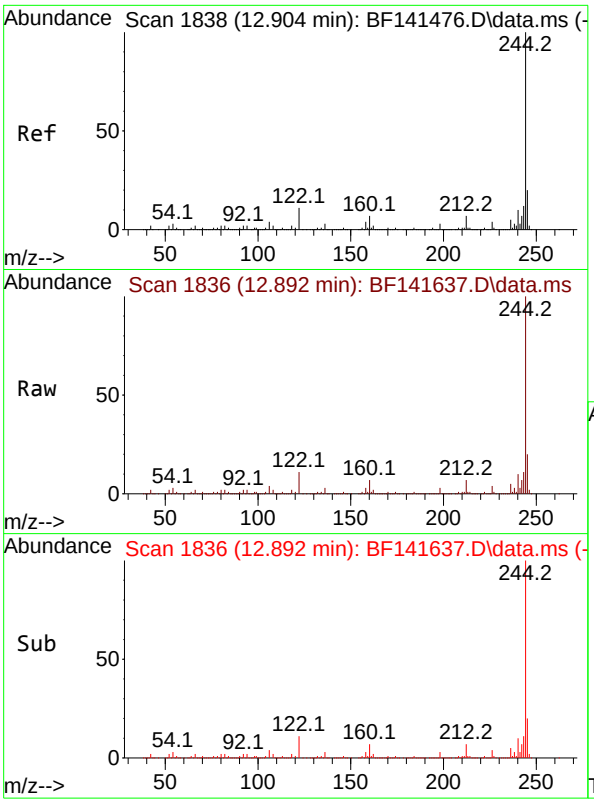


#78
Pyrene
Concen: 41.758 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:202 Resp: 886449

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.5	14.3	21.5



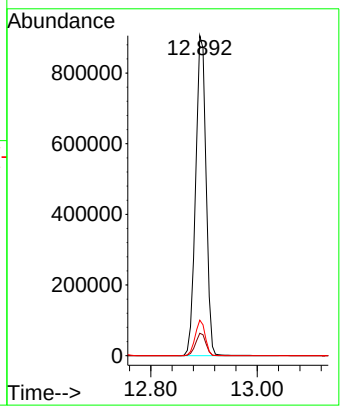


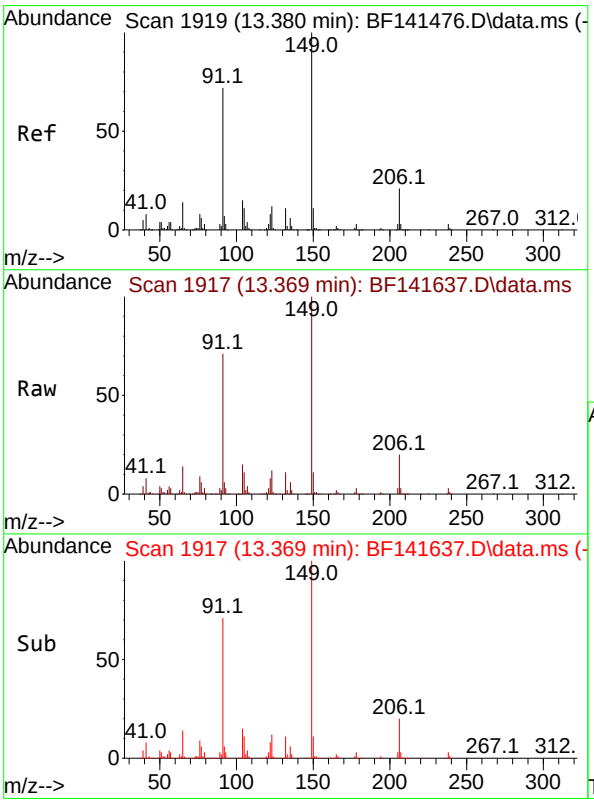
#79
Terphenyl-d14
Concen: 83.353 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 1231252

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	11.1	8.4	12.6

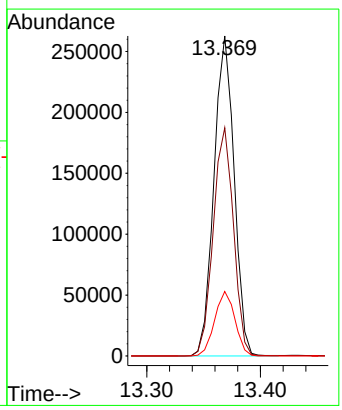


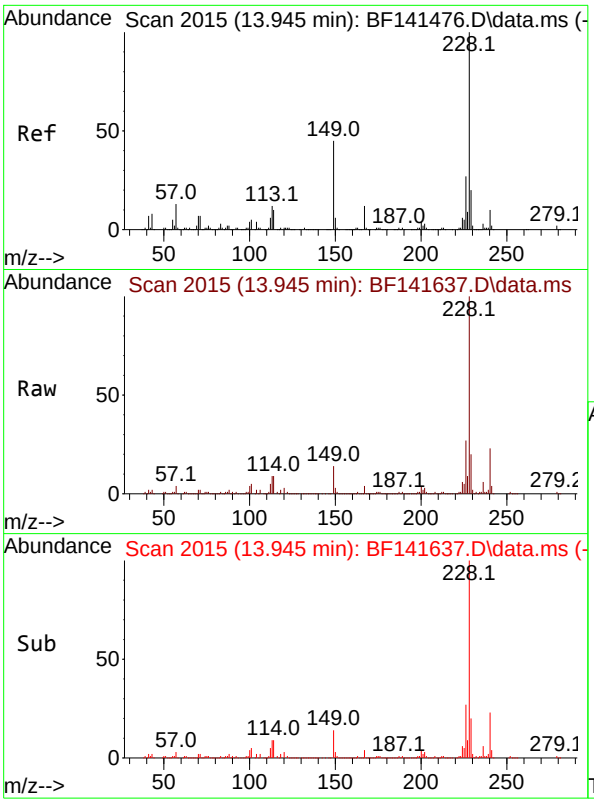


#80
Butylbenzylphthalate
Concen: 44.144 ng
RT: 13.369 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:149 Resp: 324579

Ion	Ratio	Lower	Upper
149	100		
91	71.3	57.8	86.8
206	20.2	16.7	25.1



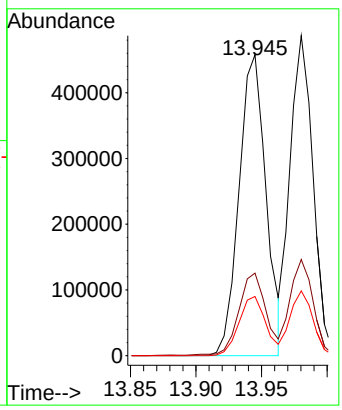


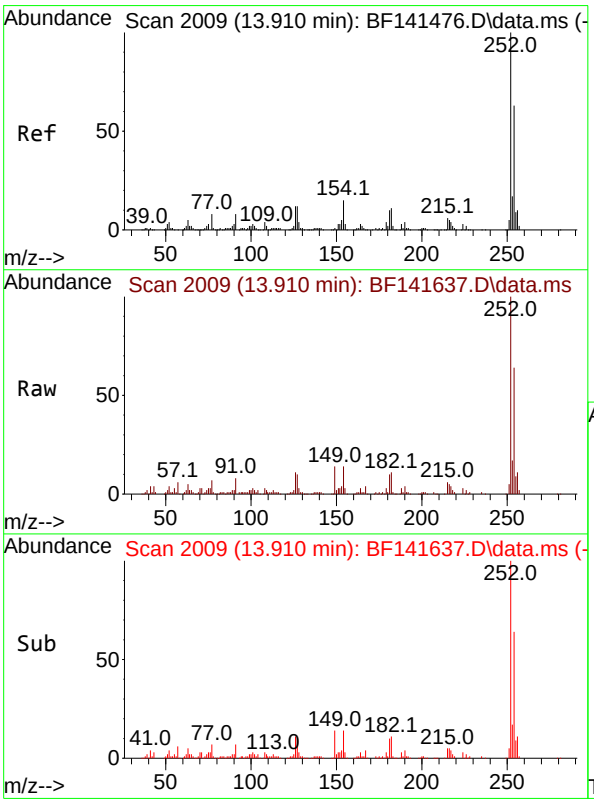
#81
Benzo(a)anthracene
Concen: 39.619 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 656735

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	19.7	15.8	23.6

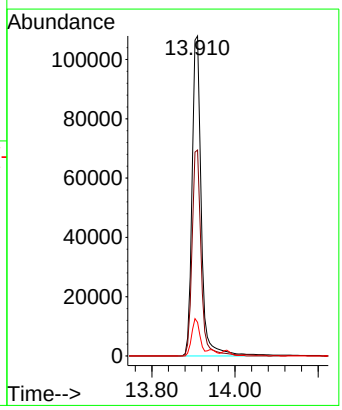


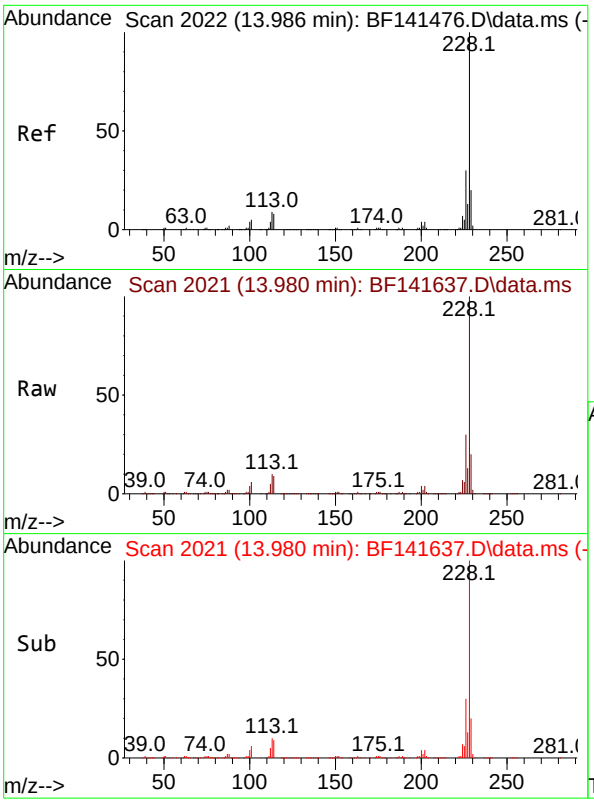


#82
3,3'-Dichlorobenzidine
Concen: 35.084 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:252 Resp: 166593

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.6	76.0
126	10.5	9.3	13.9



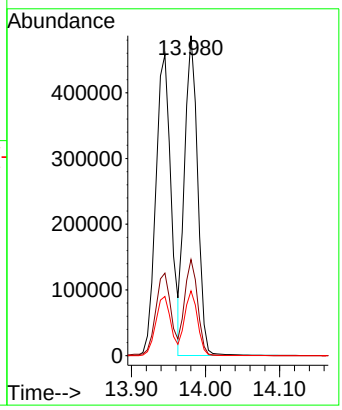


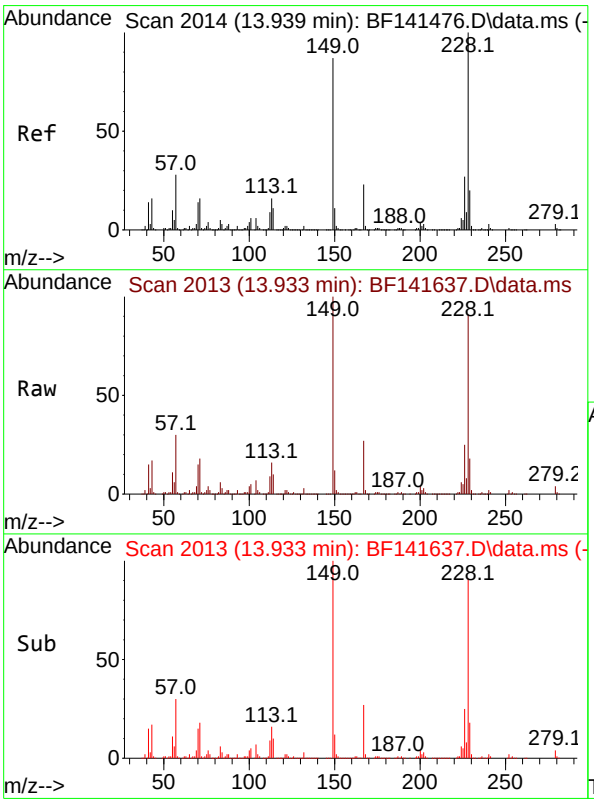
#83
Chrysene
Concen: 38.981 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 596634

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	20.3	15.7	23.5

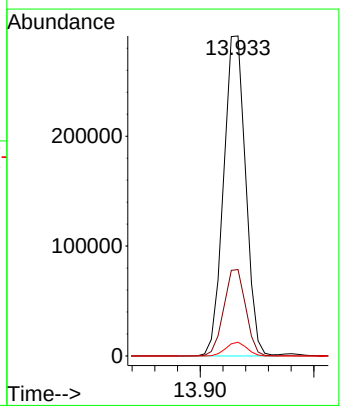


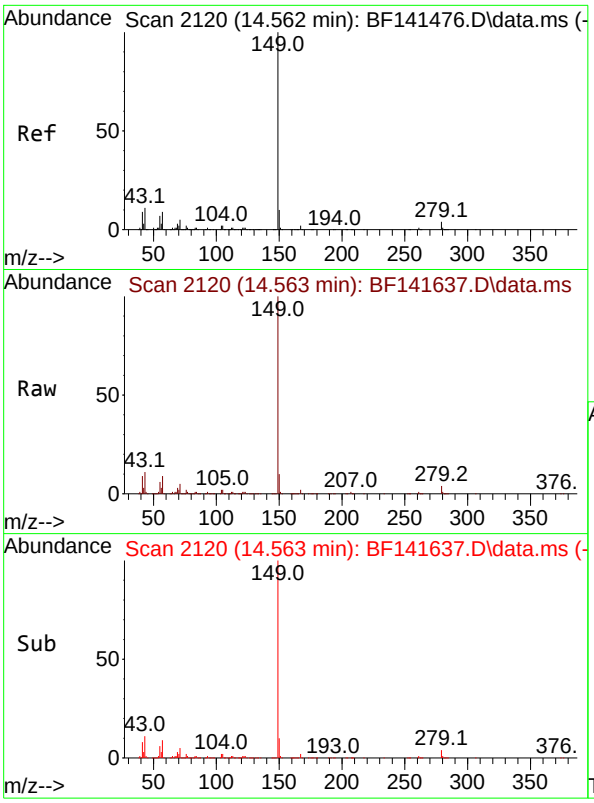


#84
Bis(2-ethylhexyl)phthalate
Concen: 47.462 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:149 Resp: 393590

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.4	32.0
279	4.3	3.1	4.7



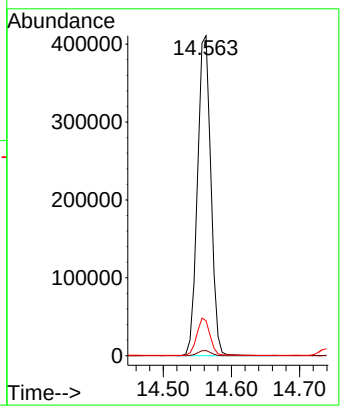


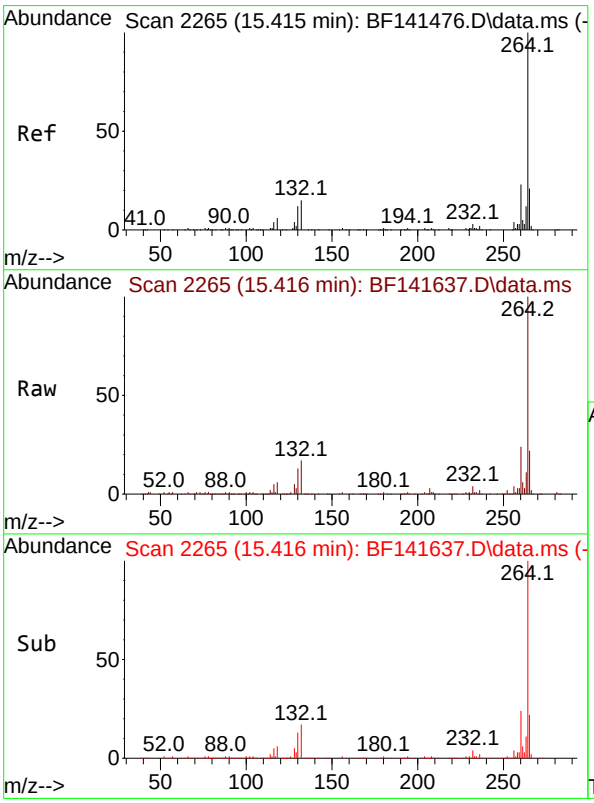
#85
Di-n-octyl phthalate
Concen: 47.344 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 560094

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.5	9.5	14.3

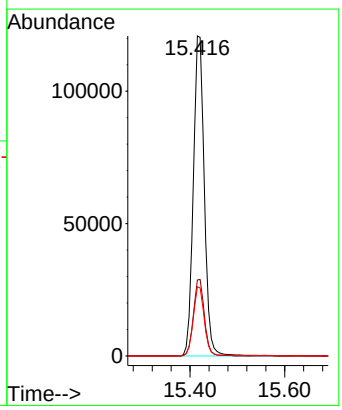


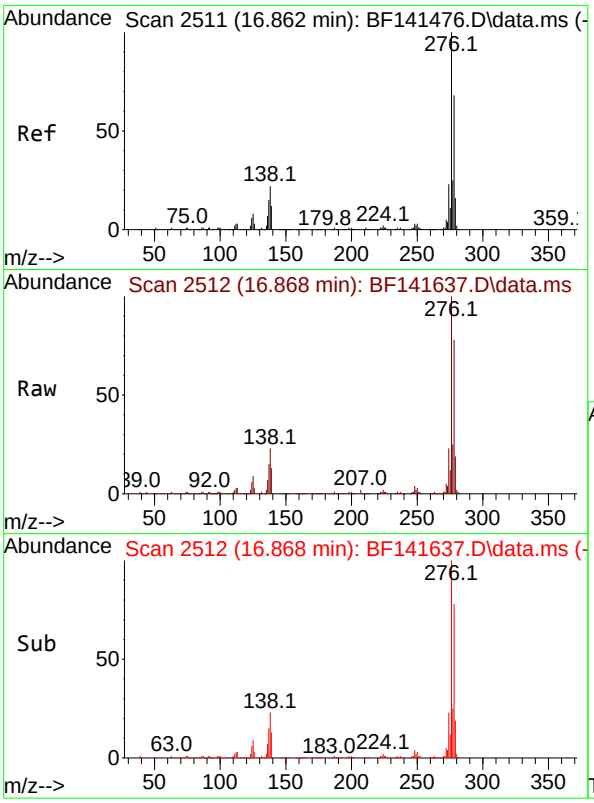


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:264 Resp: 195176

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	28.0
265	21.6	17.0	25.4



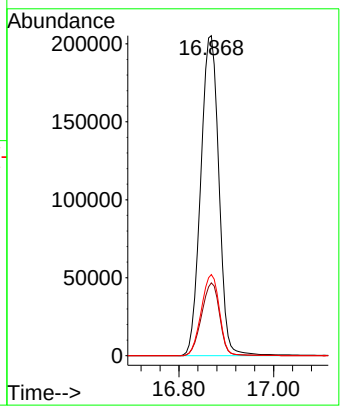


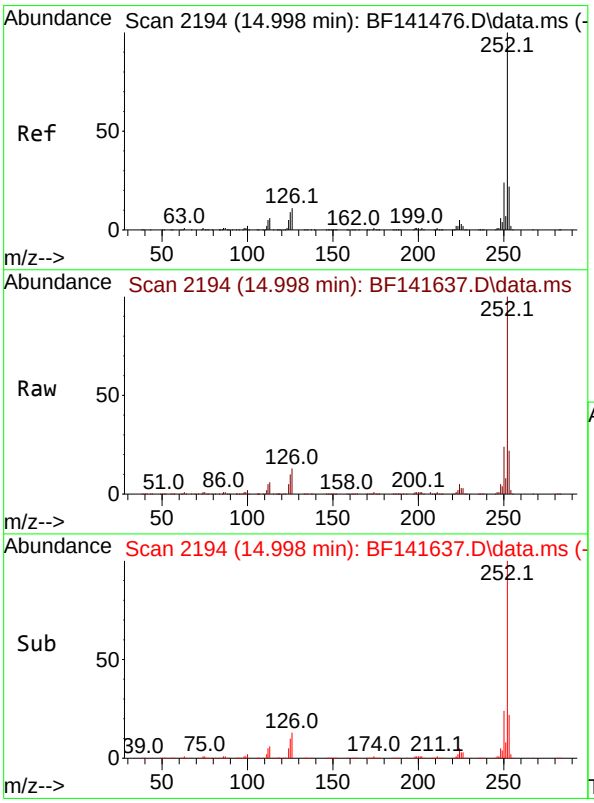
#87
Indeno(1,2,3-cd)pyrene
Concen: 45.280 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 546070

Ion	Ratio	Lower	Upper
276	100		
138	22.8	18.0	27.0
277	25.3	20.4	30.6

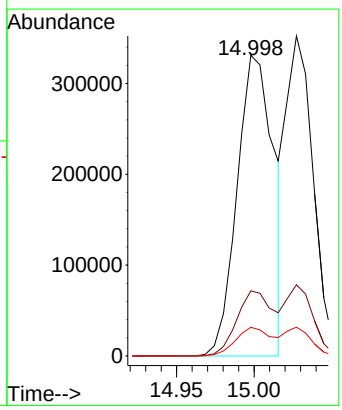


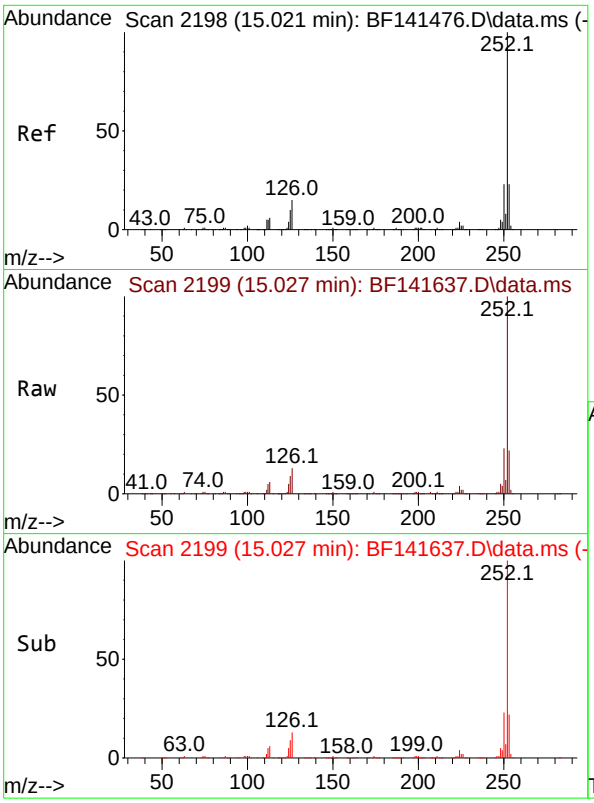


#88
Benzo(b)fluoranthene
Concen: 41.539 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:252 Resp: 544380

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	9.5	7.0	10.6



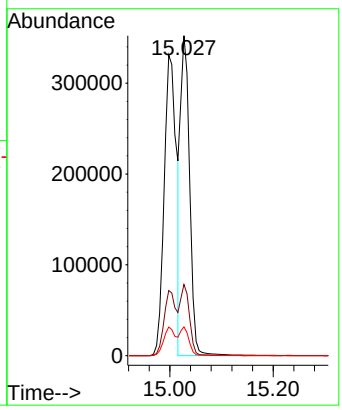


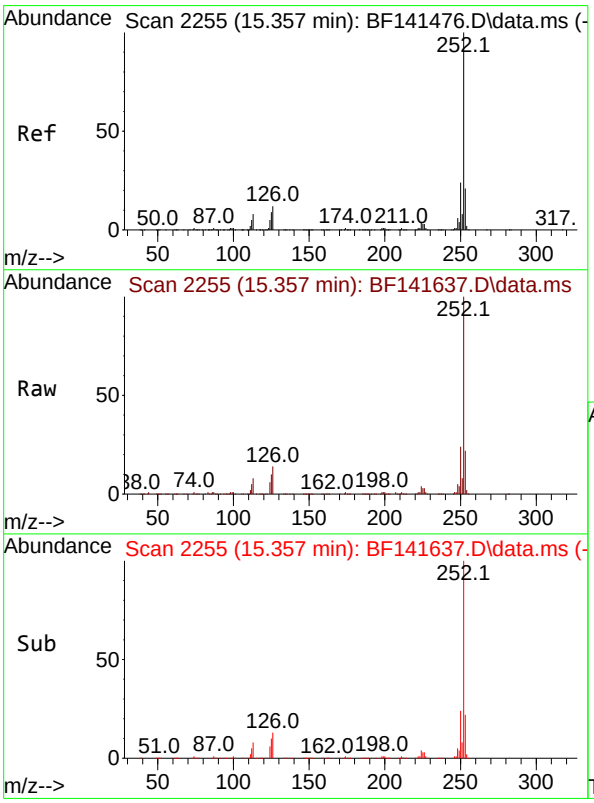
#89
Benzo(k)fluoranthene
Concen: 38.773 ng
RT: 15.027 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 433894

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	9.0	7.4	11.0

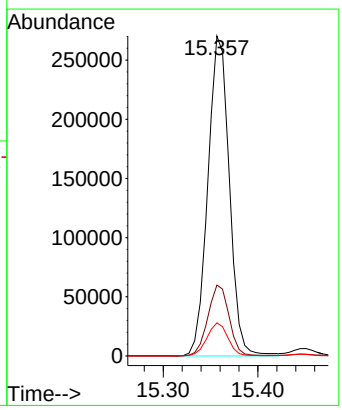


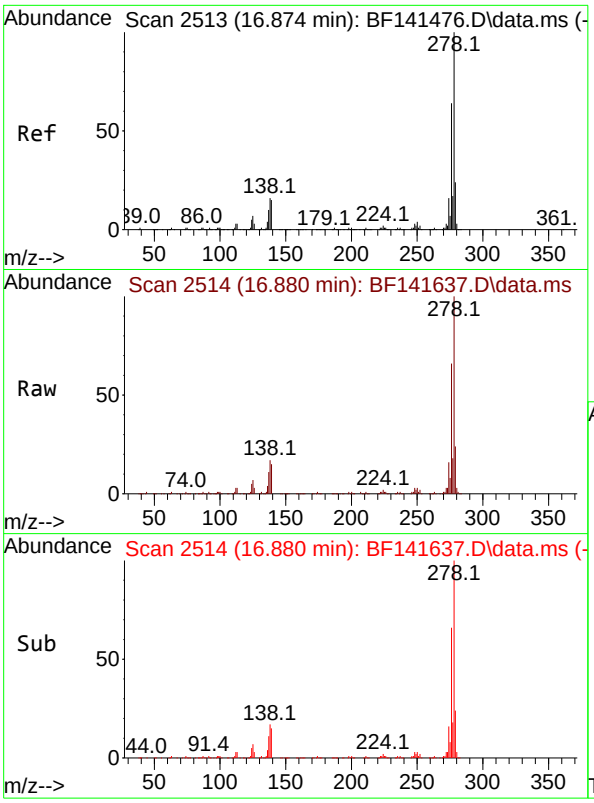


#90
Benzo(a)pyrene
Concen: 40.172 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:252 Resp: 425991

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.1	25.7
125	10.4	7.4	11.2



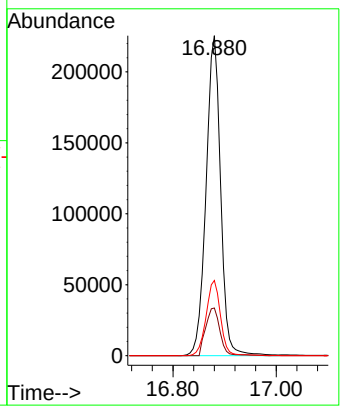


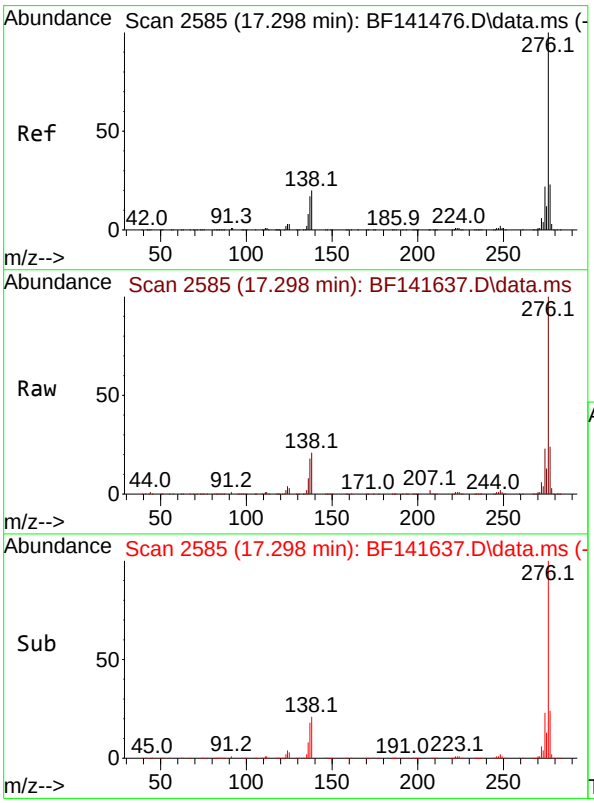
#91
Dibenzo(a,h)anthracene
Concen: 45.138 ng
RT: 16.880 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 441085

Ion	Ratio	Lower	Upper
278	100		
139	14.9	11.8	17.6
279	23.5	19.1	28.7

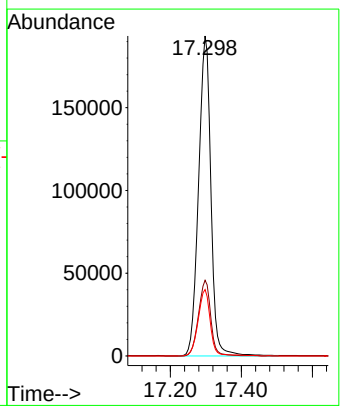




#92
Benzo(g,h,i)perylene
Concen: 45.651 ng
RT: 17.298 min Scan# 2585
Delta R.T. -0.017 min
Lab File: BF141637.D
Acq: 14 Feb 2025 14:12

Tgt Ion:276 Resp: 466821

Ion	Ratio	Lower	Upper
276	100		
277	23.7	18.6	28.0
138	20.8	15.9	23.9



Sample Results: **BF141637.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00
2		1,4-Dioxane	0.513	0.509	0.8	118	0.00
3		Pyridine	1.222	1.236	-1.1	118	-0.01
4		n-Nitrosodimethylamine	0.809	0.761	5.9	112	-0.02
5	S	2-Fluorophenol	1.276	1.282	-0.5	120	0.00
6		Aniline	1.513	1.135	25.0	89	-0.01
7	S	Phenol-d6	1.612	1.578	2.1	118	0.00
8		2-Chlorophenol	1.378	1.363	1.1	119	-0.01
9		Benzaldehyde	0.857	1.122	-30.9#	164#	0.00
10	C	Phenol	1.678	1.610	4.1	115	-0.01
11		bis(2-Chloroethyl)ether	1.261	1.250	0.9	119	0.00
12		1,3-Dichlorobenzene	1.455	1.443	0.8	120	0.00
13	C	1,4-Dichlorobenzene	1.487	1.476	0.7	121	0.00
14		1,2-Dichlorobenzene	1.380	1.395	-1.1	122	0.00
15		Benzyl Alcohol	1.236	1.181	4.4	112	0.00
16		2,2'-oxybis(1-Chloropropane	2.158	2.032	5.8	113	0.00
17		2-Methylphenol	1.079	1.057	2.0	118	0.00
18		Hexachloroethane	0.550	0.556	-1.1	121	0.00
19	P	n-Nitroso-di-n-propylamine	0.964	0.938	2.7	116	-0.01
20		3+4-Methylphenols	1.371	1.327	3.2	116	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00
22		Acetophenone	0.498	0.481	3.4	117	-0.01
23	S	Nitrobenzene-d5	0.383	0.369	3.7	115	0.00
24		Nitrobenzene	0.374	0.358	4.3	114	0.00
25		Isophorone	0.611	0.609	0.3	119	-0.01
26	C	2-Nitrophenol	0.186	0.192	-3.2	119	0.00
27		2,4-Dimethylphenol	0.217	0.215	0.9	115	0.00
28		bis(2-Chloroethoxy)methane	0.392	0.398	-1.5	121	0.00
29	C	2,4-Dichlorophenol	0.294	0.299	-1.7	120	0.00
30		1,2,4-Trichlorobenzene	0.320	0.318	0.6	120	0.00
31		Naphthalene	1.041	1.016	2.4	117	0.00
32		Benzoic acid	0.226	0.211	6.6	110	-0.02
33		4-Chloroaniline	0.363	0.299	17.6	98	-0.01
34	C	Hexachlorobutadiene	0.192	0.194	-1.0	121	0.00
35		Caprolactam	0.089	0.090	-1.1	116	-0.02
36	C	4-Chloro-3-methylphenol	0.325	0.321	1.2	117	0.00
37		2-Methylnaphthalene	0.677	0.672	0.7	120	0.00
38		1-Methylnaphthalene	0.656	0.644	1.8	117	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	119	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.579	0.586	-1.2	119	0.00
41	P	Hexachlorocyclopentadiene	0.192	0.173	9.9	101	0.00
42	S	2,4,6-Tribromophenol	0.201	0.199	1.0	119	-0.01
43	C	2,4,6-Trichlorophenol	0.374	0.372	0.5	117	0.00
44		2,4,5-Trichlorophenol	0.405	0.406	-0.2	118	0.00
45	S	2-Fluorobiphenyl	1.298	1.261	2.9	118	0.00
46		1,1'-Biphenyl	1.551	1.527	1.5	118	-0.01
47		2-Chloronaphthalene	1.147	1.133	1.2	119	-0.01

Sample Results: **BF141637.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.385	0.372	3.4	114	0.00
49		Acenaphthylene	1.705	1.670	2.1	117	0.00
50		Dimethylphthalate	1.358	1.360	-0.1	120	-0.01
51		2,6-Dinitrotoluene	0.297	0.295	0.7	117	0.00
52	C	Acenaphthene	1.147	1.106	3.6	114	-0.01
53		3-Nitroaniline	0.319	0.303	5.0	113	0.00
54	P	2,4-Dinitrophenol	0.176	0.167	5.1	112	0.00
55		Dibenzofuran	1.683	1.622	3.6	115	-0.01
56	P	4-Nitrophenol	0.237	0.206	13.1	98	0.00
57		2,4-Dinitrotoluene	0.395	0.395	0.0	118	0.00
58		Fluorene	1.301	1.271	2.3	117	0.00
59		2,3,4,6-Tetrachlorophenol	0.349	0.348	0.3	119	-0.01
60		Diethylphthalate	1.336	1.359	-1.7	122	-0.01
61		4-Chlorophenyl-phenylether	0.626	0.626	0.0	120	-0.01
62		4-Nitroaniline	0.324	0.271	16.4	97	-0.02
63		Azobenzene	1.328	1.303	1.9	117	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
65		4,6-Dinitro-2-methylphenol	0.139	0.138	0.7	113	-0.01
66	c	n-Nitrosodiphenylamine	0.640	0.639	0.2	119	-0.01
67		4-Bromophenyl-phenylether	0.224	0.228	-1.8	121	-0.01
68		Hexachlorobenzene	0.230	0.236	-2.6	121	0.00
69		Atrazine	0.192	0.163	15.1	103	-0.01
70	C	Pentachlorophenol	0.147	0.138	6.1	104	0.00
71		Phenanthrene	1.101	1.074	2.5	116	-0.01
72		Anthracene	1.107	1.082	2.3	117	-0.01
73		Carbazole	0.996	0.955	4.1	113	0.00
74		Di-n-butylphthalate	1.150	1.175	-2.2	120	-0.01
75	C	Fluoranthene	1.167	1.121	3.9	114	-0.01
76	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
77		Benzidine	0.441	0.140	68.3#	29#	0.00
78		Pyrene	1.703	1.777	-4.3	113	-0.01
79	S	Terphenyl-d14	1.185	1.234	-4.1	114	-0.01
80		Butylbenzylphthalate	0.590	0.651	-10.3	118	-0.01
81		Benzo(a)anthracene	1.329	1.317	0.9	108	0.00
82		3,3'-Dichlorobenzidine	0.381	0.334	12.3	98	0.00
83		Chrysene	1.228	1.196	2.6	110	-0.01
84		Bis(2-ethylhexyl)phthalate	0.665	0.789	-18.6	127	0.00
85	c	Di-n-octyl phthalate	0.949	1.123	-18.3	129	0.00
86	I	Perylene-d12	1.000	1.000	0.0	107	0.00
87		Indeno(1,2,3-cd)pyrene	1.236	1.399	-13.2	116	0.00
88		Benzo(b)fluoranthene	1.343	1.395	-3.9	111	0.00
89		Benzo(k)fluoranthene	1.147	1.112	3.1	104	0.00
90	C	Benzo(a)pyrene	1.087	1.091	-0.4	108	0.00
91		Dibenzo(a,h)anthracene	1.001	1.130	-12.9	115	-0.01
92		Benzo(g,h,i)perylene	1.048	1.196	-14.1	116	-0.02

Sample Results: **BF141637.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **BF141637.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	120	0.00
2		1,4-Dioxane	40.000	39.623	0.9	118	0.00
3		Pyridine	40.000	40.475	-1.2	118	-0.01
4		n-Nitrosodimethylamine	40.000	37.640	5.9	112	-0.02
5	S	2-Fluorophenol	80.000	80.412	-0.5	120	0.00
6		Aniline	40.000	30.015	25.0	89	-0.01
7	S	Phenol-d6	80.000	78.290	2.1	118	0.00
8		2-Chlorophenol	40.000	39.548	1.1	119	-0.01
9		Benzaldehyde	40.000	52.379	-30.9#	164	0.00
10	C	Phenol	40.000	38.385	4.0	115	-0.01
11		bis(2-Chloroethyl)ether	40.000	39.680	0.8	119	0.00
12		1,3-Dichlorobenzene	40.000	39.660	0.9	120	0.00
13	C	1,4-Dichlorobenzene	40.000	39.713	0.7	121	0.00
14		1,2-Dichlorobenzene	40.000	40.431	-1.1	122	0.00
15		Benzyl Alcohol	40.000	38.190	4.5	112	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.664	5.8	113	0.00
17		2-Methylphenol	40.000	39.208	2.0	118	0.00
18		Hexachloroethane	40.000	40.430	-1.1	121	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.882	2.8	116	-0.01
20		3+4-Methylphenols	40.000	38.707	3.2	116	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	120	0.00
22		Acetophenone	40.000	38.701	3.2	117	-0.01
23	S	Nitrobenzene-d5	80.000	77.035	3.7	115	0.00
24		Nitrobenzene	40.000	38.313	4.2	114	0.00
25		Isophorone	40.000	39.838	0.4	119	-0.01
26	C	2-Nitrophenol	40.000	41.226	-3.1	119	0.00
27		2,4-Dimethylphenol	40.000	39.542	1.1	115	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.602	-1.5	121	0.00
29	C	2,4-Dichlorophenol	40.000	40.683	-1.7	120	0.00
30		1,2,4-Trichlorobenzene	40.000	39.793	0.5	120	0.00
31		Naphthalene	40.000	39.029	2.4	117	0.00
32		Benzoic acid	40.000	37.434	6.4	110	-0.02
33		4-Chloroaniline	40.000	32.904	17.7	98	-0.01
34	C	Hexachlorobutadiene	40.000	40.422	-1.1	121	0.00
35		Caprolactam	40.000	40.400	-1.0	116	-0.02
36	C	4-Chloro-3-methylphenol	40.000	39.466	1.3	117	0.00
37		2-Methylnaphthalene	40.000	39.691	0.8	120	0.00
38		1-Methylnaphthalene	40.000	39.266	1.8	117	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	119	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	40.512	-1.3	119	0.00
41	P	Hexachlorocyclopentadiene	40.000	35.979	10.1	101	0.00
42	S	2,4,6-Tribromophenol	80.000	79.342	0.8	119	-0.01
43	C	2,4,6-Trichlorophenol	40.000	39.740	0.6	117	0.00
44		2,4,5-Trichlorophenol	40.000	40.088	-0.2	118	0.00
45	S	2-Fluorobiphenyl	80.000	77.735	2.8	118	0.00
46		1,1'-Biphenyl	40.000	39.400	1.5	118	-0.01
47		2-Chloronaphthalene	40.000	39.528	1.2	119	-0.01

Sample Results: **BF141637.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	38.712	3.2	114	0.00
49		Acenaphthylene	40.000	39.181	2.0	117	0.00
50		Dimethylphthalate	40.000	40.075	-0.2	120	-0.01
51		2,6-Dinitrotoluene	40.000	39.756	0.6	117	0.00
52	C	Acenaphthene	40.000	38.593	3.5	114	-0.01
53		3-Nitroaniline	40.000	37.892	5.3	113	0.00
54	P	2,4-Dinitrophenol	40.000	37.868	5.3	112	0.00
55		Dibenzofuran	40.000	38.559	3.6	115	-0.01
56	P	4-Nitrophenol	40.000	34.787	13.0	98	0.00
57		2,4-Dinitrotoluene	40.000	39.993	0.0	118	0.00
58		Fluorene	40.000	39.075	2.3	117	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.840	0.4	119	-0.01
60		Diethylphthalate	40.000	40.698	-1.7	122	-0.01
61		4-Chlorophenyl-phenylether	40.000	40.025	-0.1	120	-0.01
62		4-Nitroaniline	40.000	33.451	16.4	97	-0.02
63		Azobenzene	40.000	39.247	1.9	117	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	117	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.662	0.8	113	-0.01
66	c	n-Nitrosodiphenylamine	40.000	39.954	0.1	119	-0.01
67		4-Bromophenyl-phenylether	40.000	40.829	-2.1	121	-0.01
68		Hexachlorobenzene	40.000	40.943	-2.4	121	0.00
69		Atrazine	40.000	33.952	15.1	103	-0.01
70	C	Pentachlorophenol	40.000	37.392	6.5	104	0.00
71		Phenanthrene	40.000	39.031	2.4	116	-0.01
72		Anthracene	40.000	39.110	2.2	117	-0.01
73		Carbazole	40.000	38.349	4.1	113	0.00
74		Di-n-butylphthalate	40.000	40.882	-2.2	120	-0.01
75	C	Fluoranthene	40.000	38.427	3.9	114	-0.01
76	I	Chrysene-d12	20.000	20.000	0.0	111	0.00
77		Benzidine	40.000	12.725	68.2#	29	0.00
78		Pyrene	40.000	41.758	-4.4	113	-0.01
79	S	Terphenyl-d14	80.000	83.353	-4.2	114	-0.01
80		Butylbenzylphthalate	40.000	44.144	-10.4	118	-0.01
81		Benzo(a)anthracene	40.000	39.619	1.0	108	0.00
82		3,3'-Dichlorobenzidine	40.000	35.084	12.3	98	0.00
83		Chrysene	40.000	38.981	2.5	110	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	47.462	-18.7	127	0.00
85	c	Di-n-octyl phthalate	40.000	47.344	-18.4	129	0.00
86	I	Perylene-d12	20.000	20.000	0.0	107	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	45.280	-13.2	116	0.00
88		Benzo(b)fluoranthene	40.000	41.539	-3.8	111	0.00
89		Benzo(k)fluoranthene	40.000	38.773	3.1	104	0.00
90	C	Benzo(a)pyrene	40.000	40.172	-0.4	108	0.00
91		Dibenzo(a,h)anthracene	40.000	45.138	-12.8	115	-0.01
92		Benzo(g,h,i)perylene	40.000	45.651	-14.1	116	-0.02

Sample Results: **BF141637.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141637.D
Acq On : 14 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 14 14:43:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

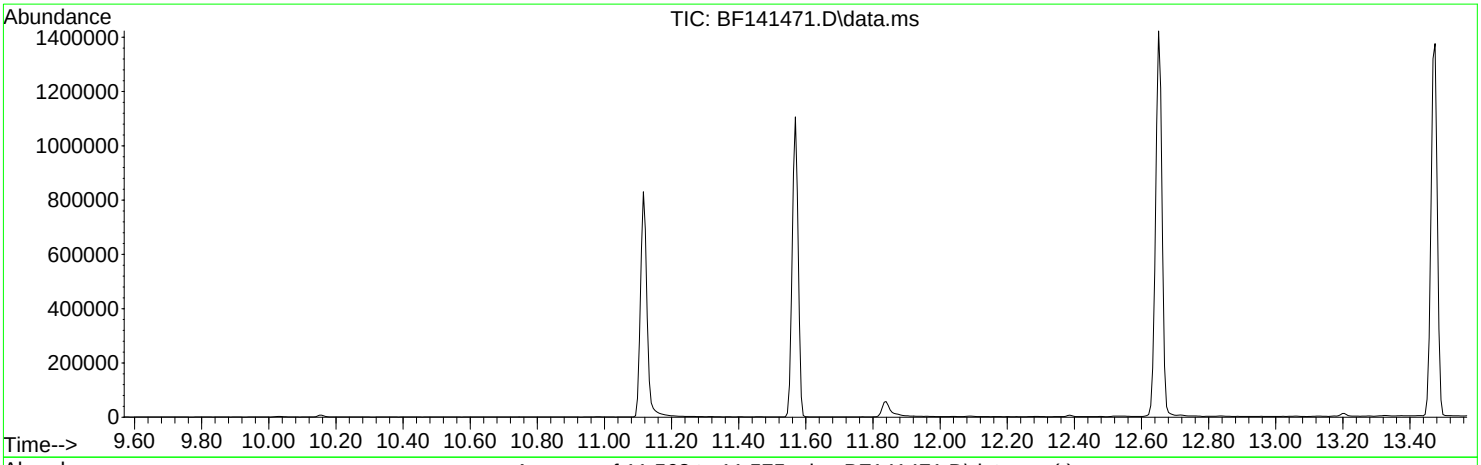
Sample Results: **BF141471.D**

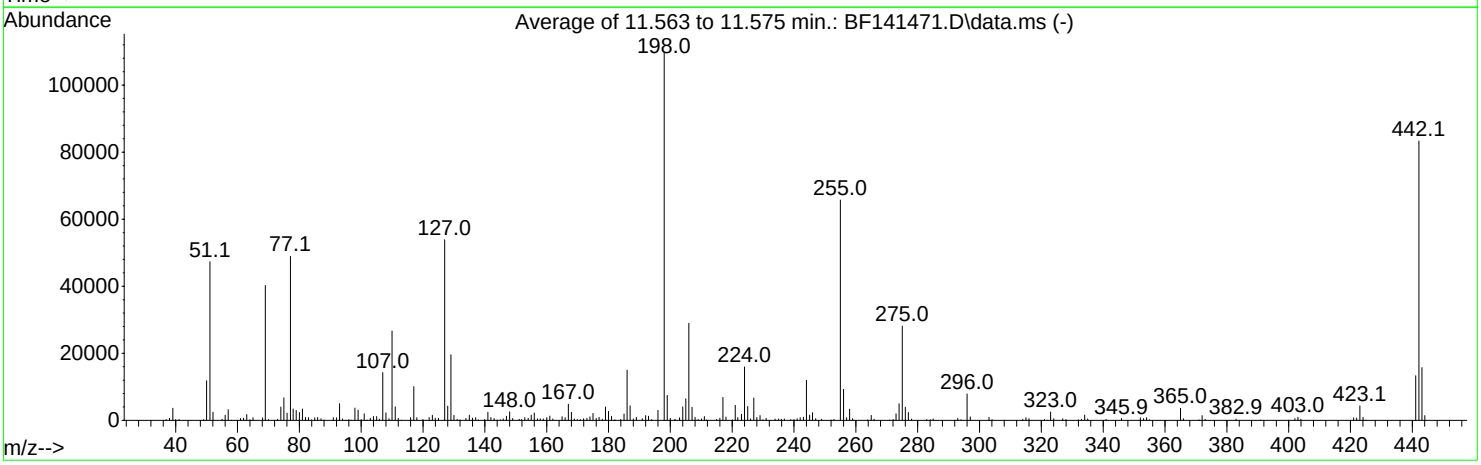
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

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





AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1603

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.2	47360	PASS
68	69	0.00	2	1.9	756	PASS
69	198	0.00	100	36.7	40248	PASS
70	69	0.00	2	0.5	221	PASS
127	198	10	80	49.1	53877	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	109720	PASS
199	198	5	9	6.8	7444	PASS
275	198	10	60	25.6	28133	PASS
365	198	1	100	3.3	3599	PASS
441	198	0.01	100	12.2	13341	PASS
442	442	50	100	100.0	83323	PASS
443	442	15	24	18.9	15754	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/6/2025	BNA_F	BF141471.D
Compound Name	**Response**	**Retention Time**
DDT	348871	13.475
DDD	6398	13.204
DDE	521	12.839
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6919	355790	1.94

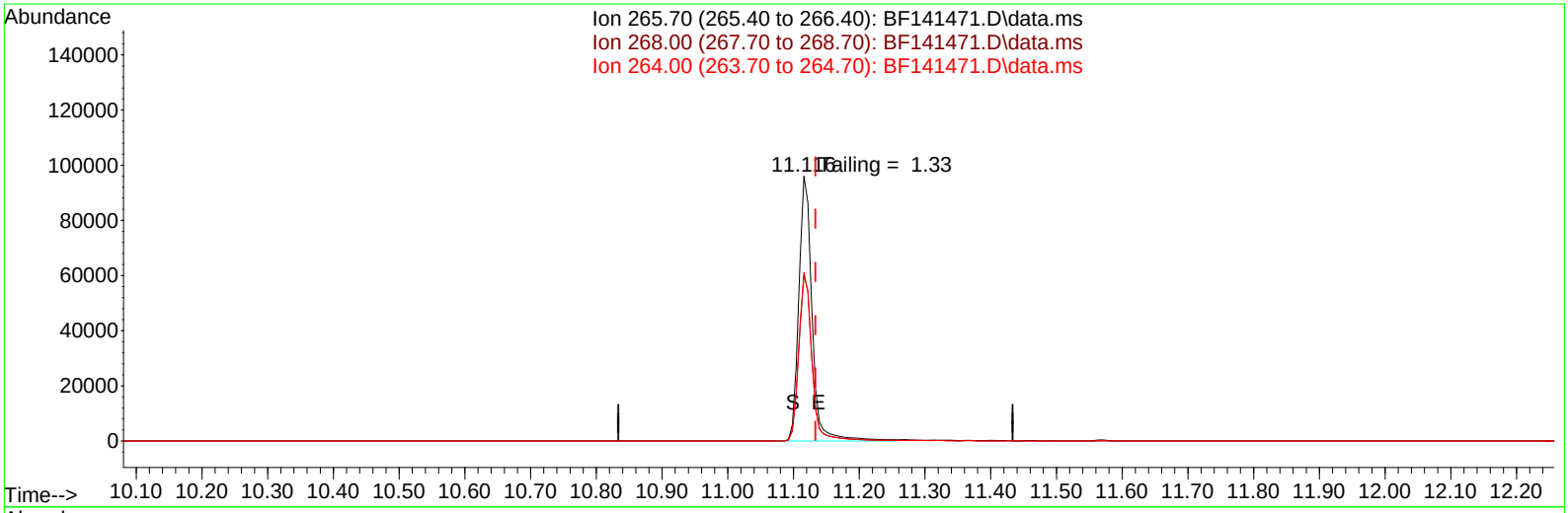
Instrument :
BNA_F
ClientSampleId :
DFTPP

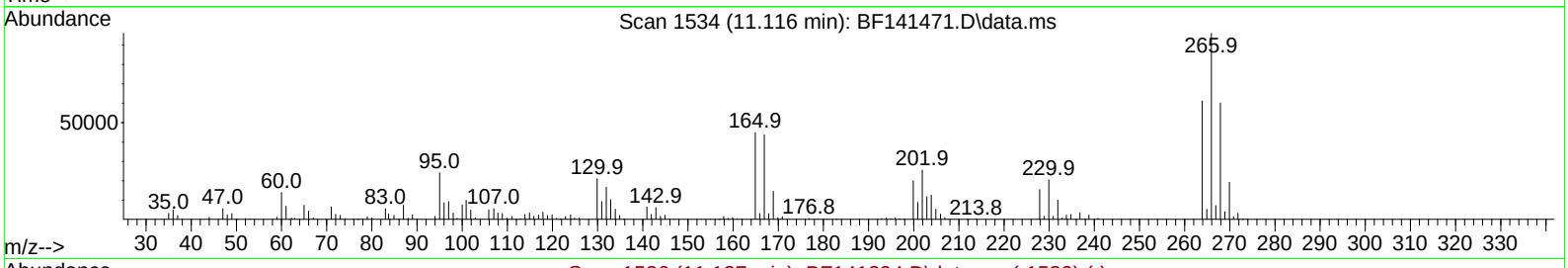
Sample Results: **BF141471.D**

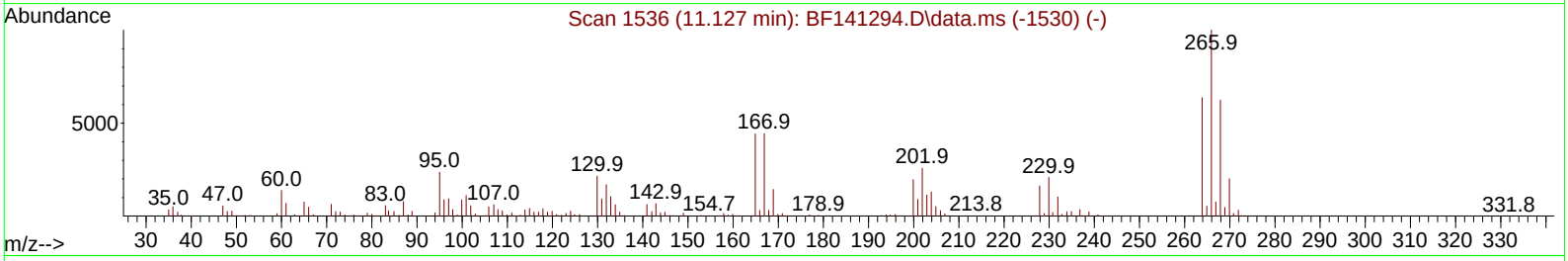
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 06 13:09:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 13:08:53 2025
Response via : Initial Calibration







TIC: BF141471.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.018) 32915.33 ng

response 135048

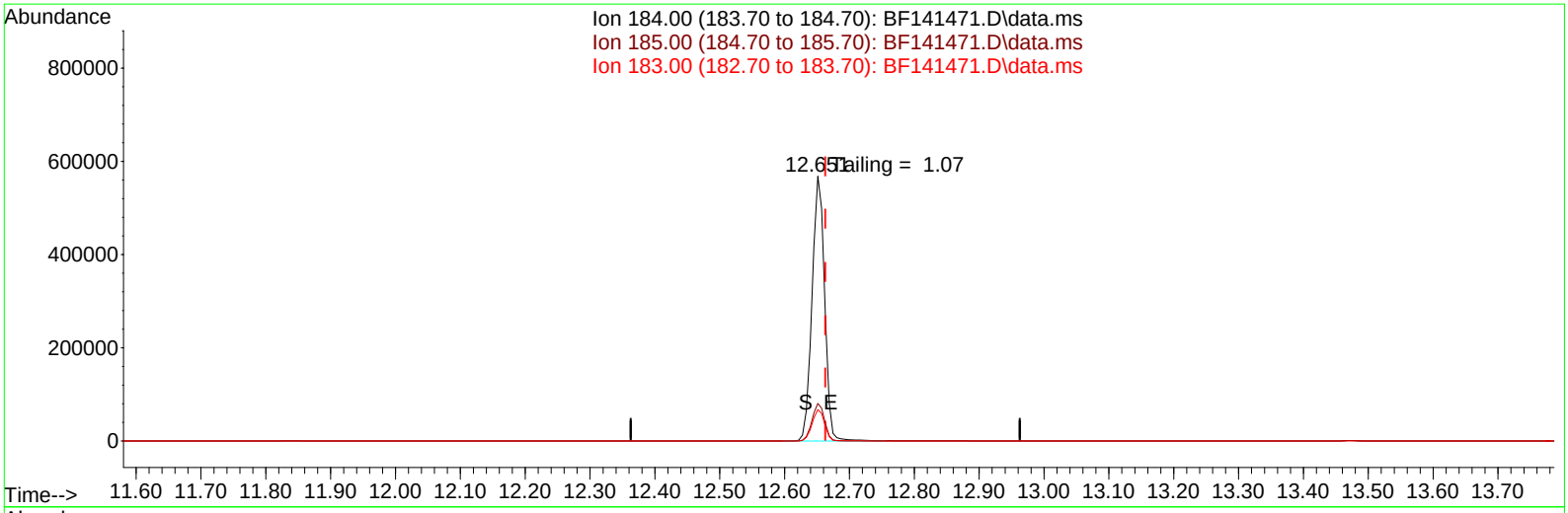
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	62.59
264.00	63.70	63.70
0.00	0.00	0.00

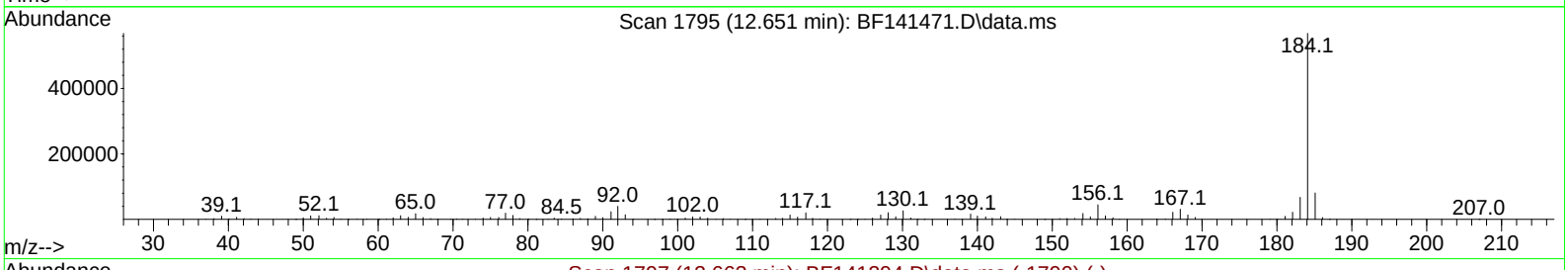
Sample Results: **BF141471.D**

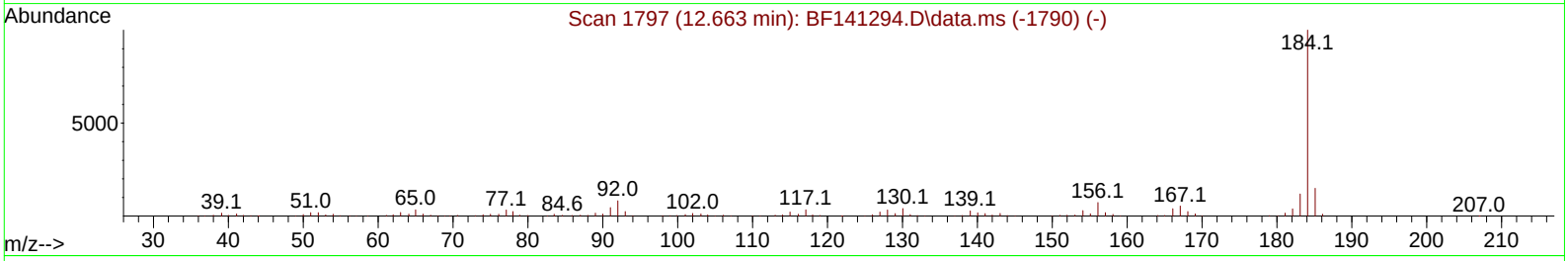
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141471.D
Acq On : 06 Feb 2025 10:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 06 13:09:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 13:08:53 2025
Response via : Initial Calibration







TIC: BF141471.D\data.ms

(77) Benzidine

12.651min (-0.012) 0.00 ng

response 764582

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.21
183.00	11.90	11.88
0.00	0.00	0.00

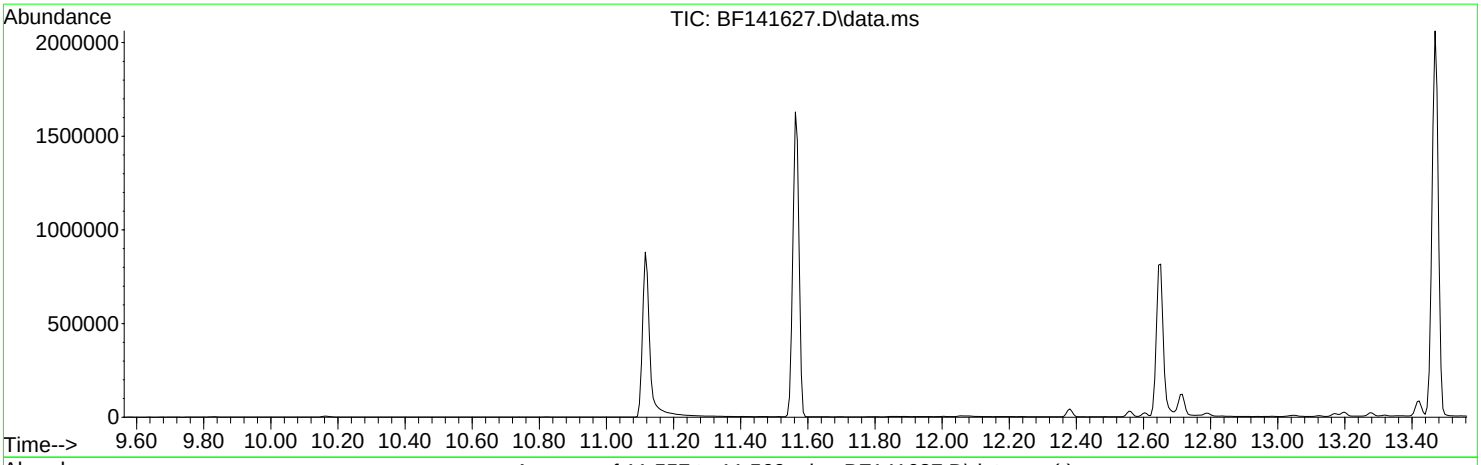
Sample Results: **BF141627.D**

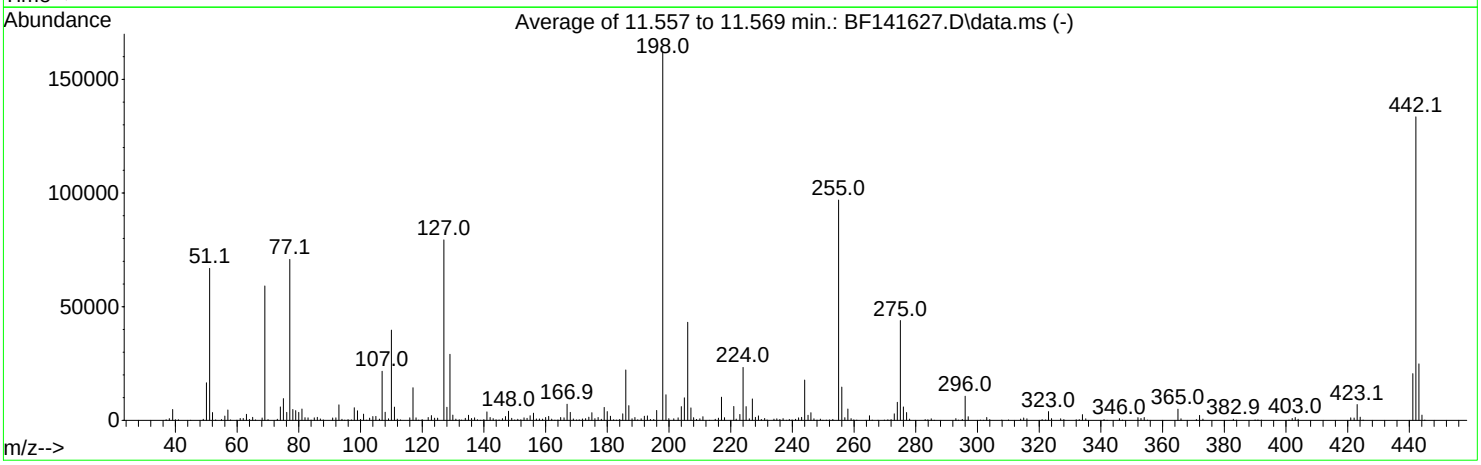
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141627.D
Acq On : 14 Feb 2025 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

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





AutoFind: Scans 1609, 1610, 1611; Background Corrected with Scan 1603

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.3	66885	PASS
68	69	0.00	2	1.8	1044	PASS
69	198	0.00	100	36.6	59152	PASS
70	69	0.00	2	0.5	324	PASS
127	198	10	80	49.1	79389	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	161827	PASS
199	198	5	9	6.9	11232	PASS
275	198	10	60	27.2	43941	PASS
365	198	1	100	3.0	4916	PASS
441	198	0.01	100	12.7	20590	PASS
442	442	50	100	100.0	133499	PASS
443	442	15	24	18.6	24881	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/14/2025	BNA_F	BF141627.D
Compound Name	**Response**	**Retention Time**
DDT	532922	13.469
DDD	11412	13.198
DDE	640	12.833
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12052	544974	2.21

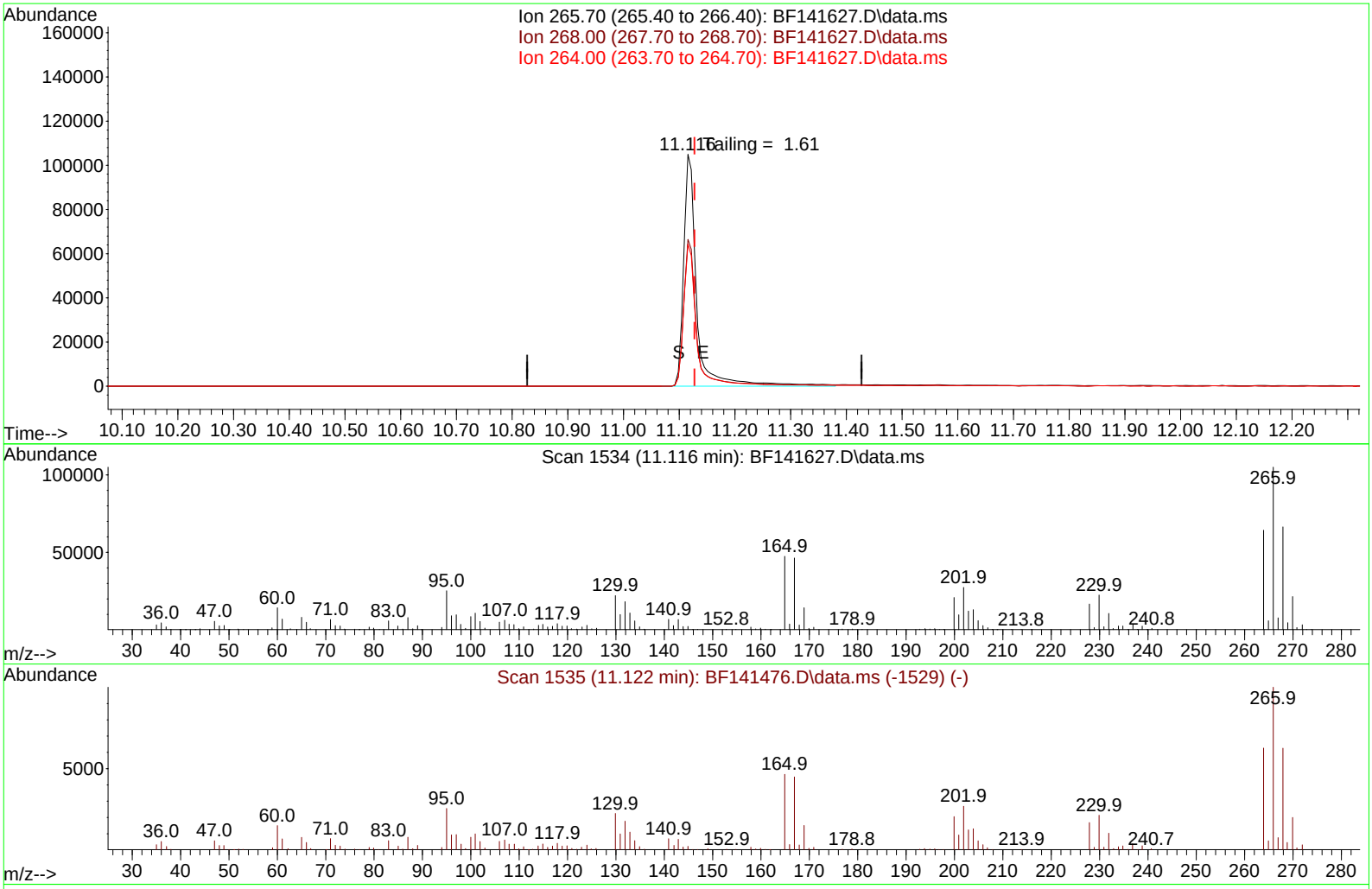
Instrument :
BNA_F
ClientSampleId :
DFTPP

Sample Results: **BF141627.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141627.D
Acq On : 14 Feb 2025 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 14 10:34:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



TIC: BF141627.D\data.ms

(70) Pentachlorophenol (C)

11.116min (-0.012) 23053.12 ng

response 171340

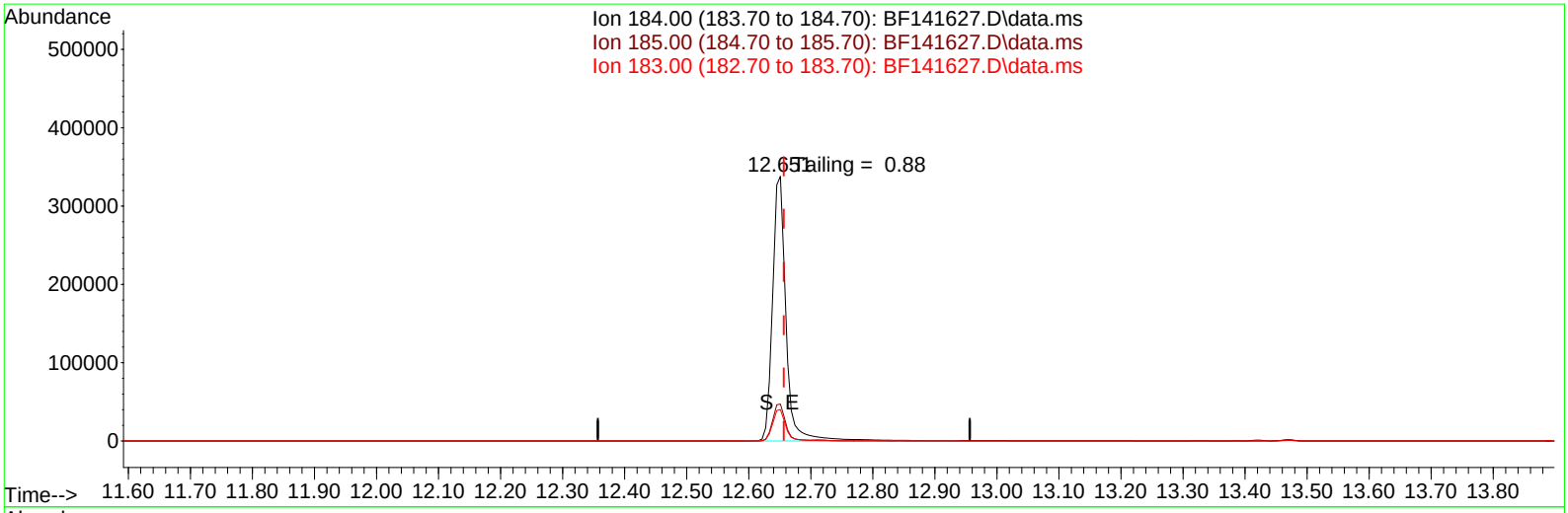
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.60	63.29
264.00	62.60	61.26
0.00	0.00	0.00

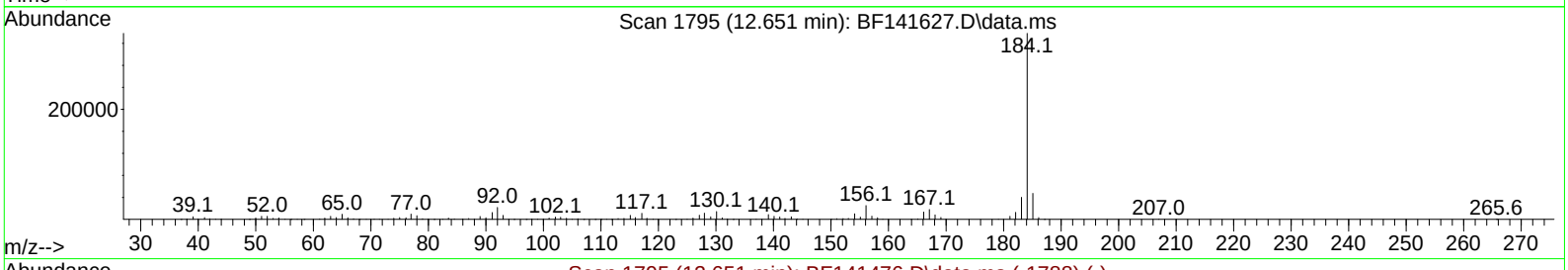
Sample Results: **BF141627.D**

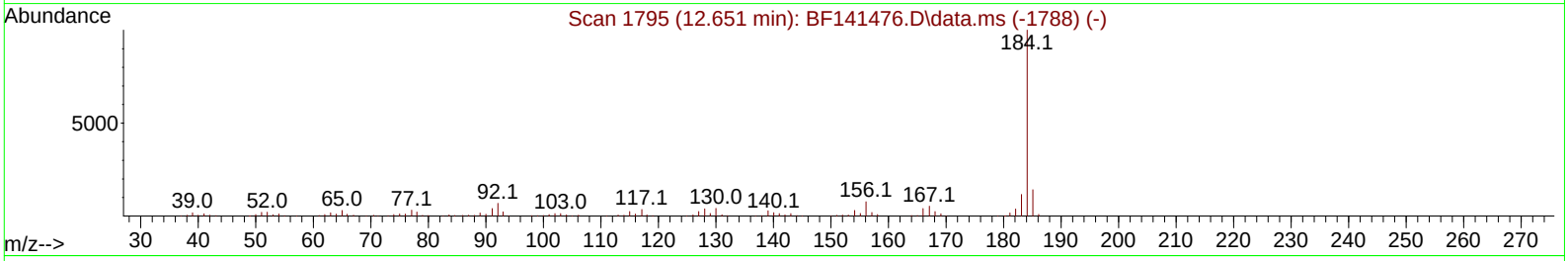
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141627.D
Acq On : 14 Feb 2025 09:19
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 14 10:34:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration







TIC: BF141627.D\data.ms

(77) Benzidine

12.651min (-0.006) 0.00 ng

response 512547

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	13.99
183.00	11.60	11.86
0.00	0.00	0.00

Raw Data: **BF141629.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB166711BL	SDG No.:	Q1352
Lab Sample ID:	PB166711BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141629.D	1	02/13/25 09:00	02/14/25 10:29	PB166711

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	4.00	U	1.60	4.00	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	4.00	U	0.84	4.00	5.00	ug/L
95-48-7	2-Methylphenol	4.00	U	1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	8.00	U	1.20	8.00	10.0	ug/L
67-72-1	Hexachloroethane	4.00	U	1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	4.00	U	1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	4.00	U	1.30	4.00	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	4.00	U	0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	4.00	U	1.00	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	4.00	U	1.50	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	4.00	U	1.10	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	8.00	U	1.90	8.00	10.0	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	136		19 - 119		91%	SPK: 150
13127-88-3	Phenol-d6	133		10 - 130		89%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.0		44 - 120		93%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.8		44 - 119		96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	141		43 - 140		94%	SPK: 150
1718-51-0	Terphenyl-d14	92.6		50 - 134		93%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	91100	6.787				
1146-65-2	Naphthalene-d8	362000	8.069				
15067-26-2	Acenaphthene-d10	203000	9.822				
1517-22-2	Phenanthrene-d10	368000	11.31				
1719-03-5	Chrysene-d12	292000	13.963				
1520-96-3	Perylene-d12	226000	15.463				

Raw Data: **BF141629.D**

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

Report of Analysis

Client:	Weston Solutions			Date Collected:			
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169			Date Received:			
Client Sample ID:	PB166711BL			SDG No.:	Q1352		
Lab Sample ID:	PB166711BL			Matrix:	TCLP		
Analytical Method:	SW8270			% Solid:	0		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000		uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA		
Extraction Type :			Decanted : N	Level :	LOW		
Injection Volume :			GPC Factor : 1.0	GPC Cleanup :	N	PH :	
Prep Method :	SW3510C						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141629.D	1	02/13/25 09:00	02/14/25 10:29	PB166711

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\BF021425\
Data File : BF141629.D
Acq On : 14 Feb 2025 10:29
Operator : RC/JU
Sample : PB166711BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Quant Time: Feb 14 11:00:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

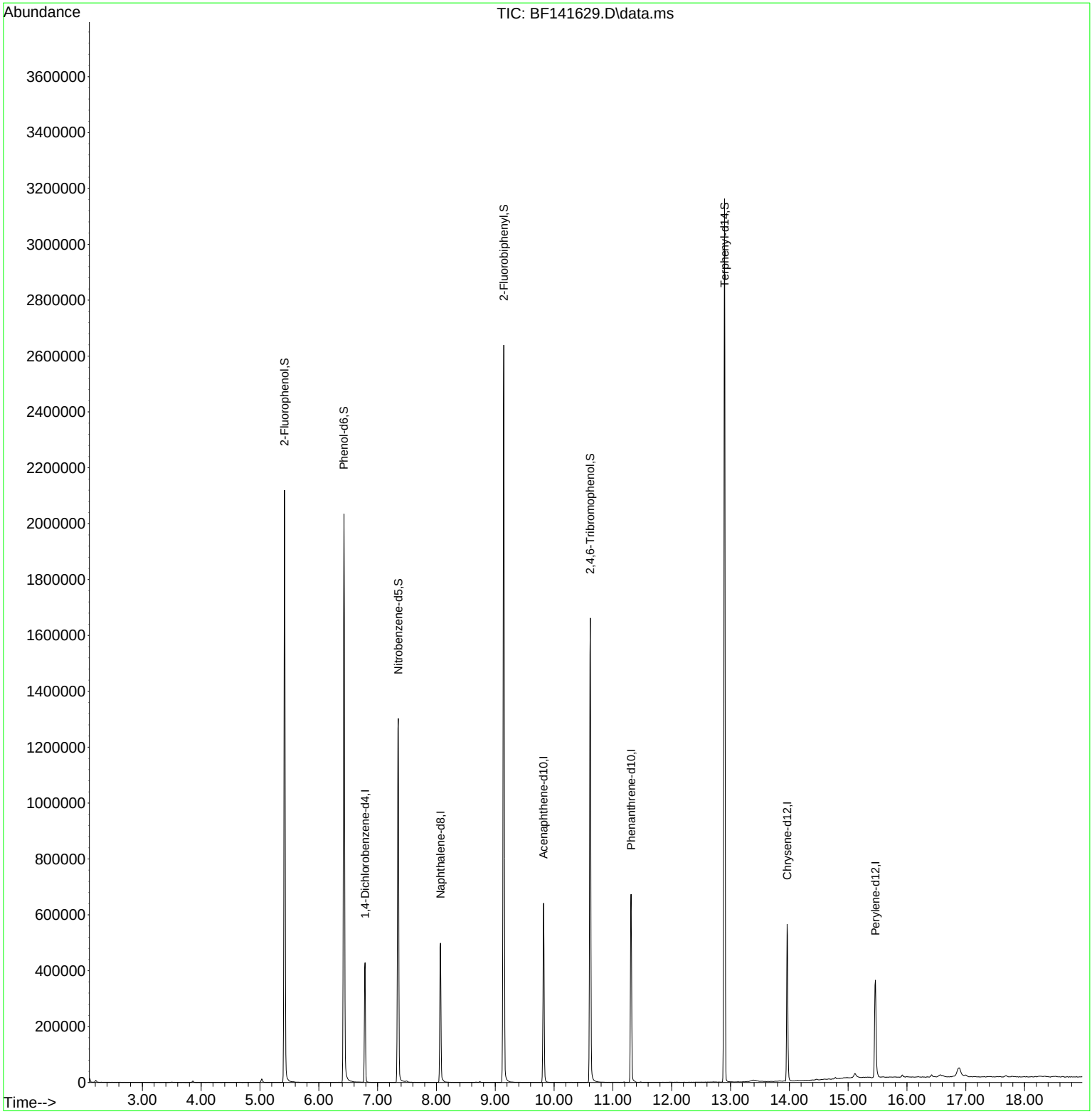
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	91091	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	362070	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	202635	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	368068	20.000	ng	0.00
76) Chrysene-d12	13.963	240	292483	20.000	ng	0.00
86) Perylene-d12	15.463	264	226077	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	790717	136.088	ng	0.00
7) Phenol-d6	6.428	99	979371	133.361	ng	-0.01
23) Nitrobenzene-d5	7.351	82	645810	93.033	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	286595	140.794	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	1259645	95.771	ng	0.00
79) Terphenyl-d14	12.898	244	1604343	92.601	ng	0.00
Target Compounds						Qvalue

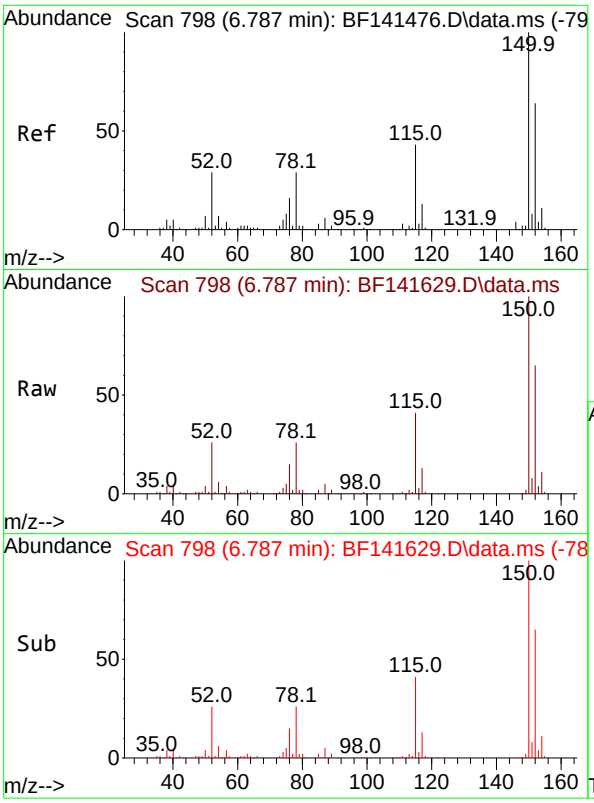
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141629.D
Acq On : 14 Feb 2025 10:29
Operator : RC/JU
Sample : PB166711BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Quant Time: Feb 14 11:00:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



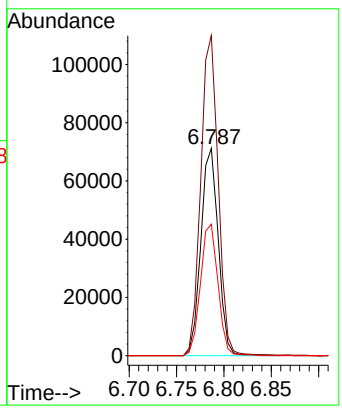


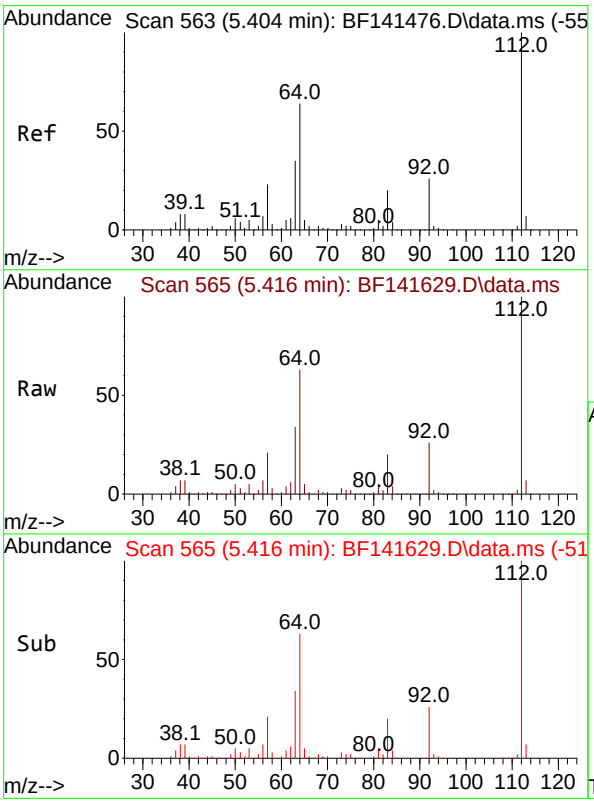
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Tgt Ion:152 Resp: 91091

Ion	Ratio	Lower	Upper
152	100		
150	154.4	125.0	187.4
115	63.4	53.6	80.4

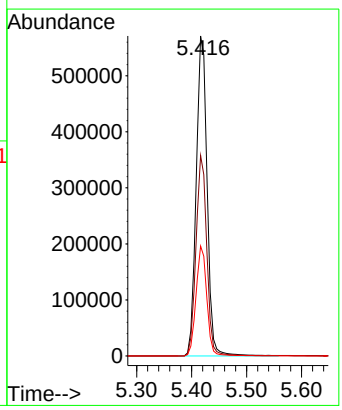


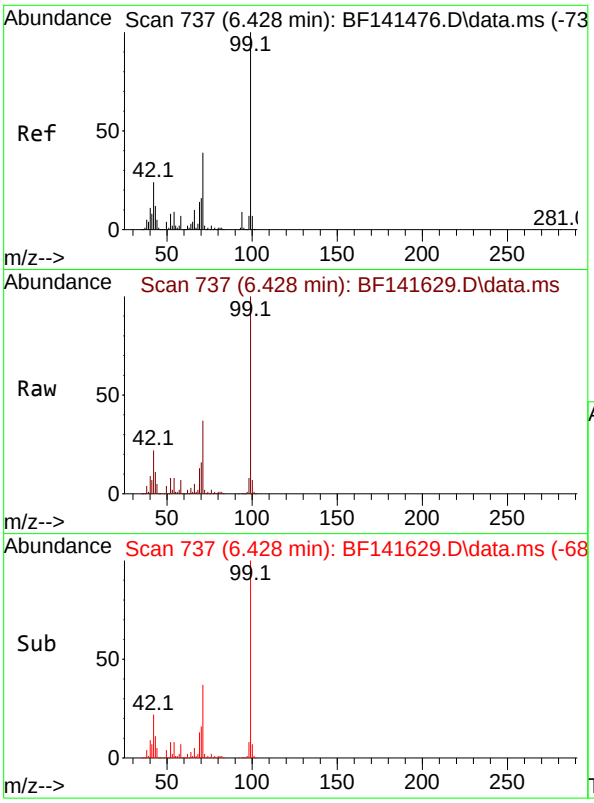


#5
2-Fluorophenol
Concen: 136.088 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Tgt Ion:112 Resp: 790717

Ion	Ratio	Lower	Upper
112	100		
64	62.6	51.1	76.7
63	34.4	28.4	42.6



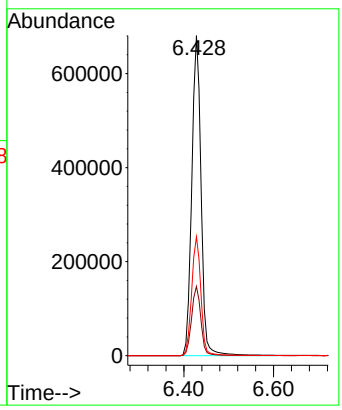


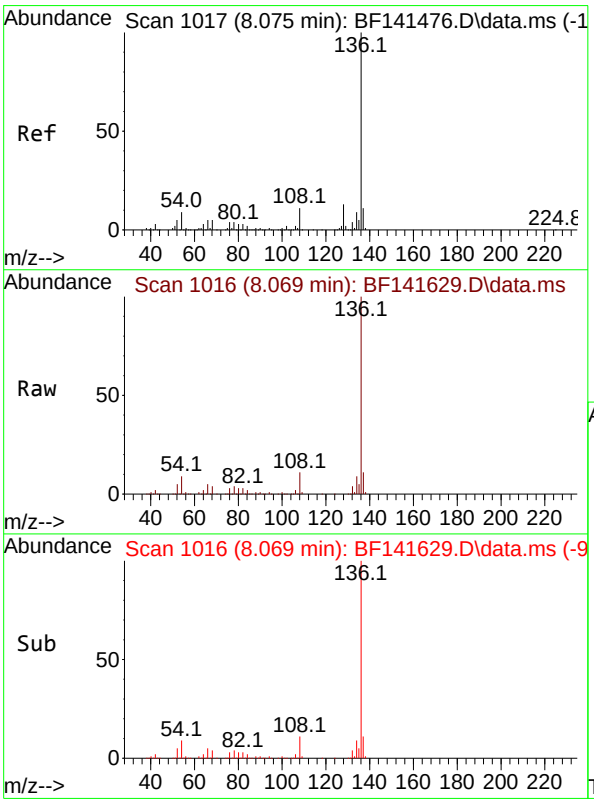
#7
Phenol-d6
Concen: 133.361 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Tgt Ion: 99 Resp: 979371

Ion	Ratio	Lower	Upper
99	100		
42	21.6	19.1	28.7
71	37.1	31.1	46.7

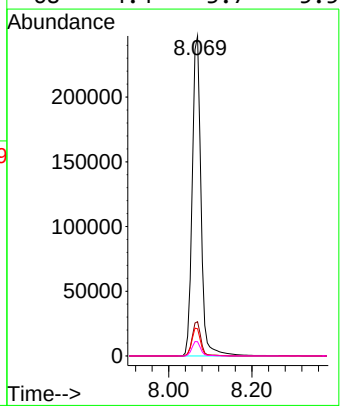


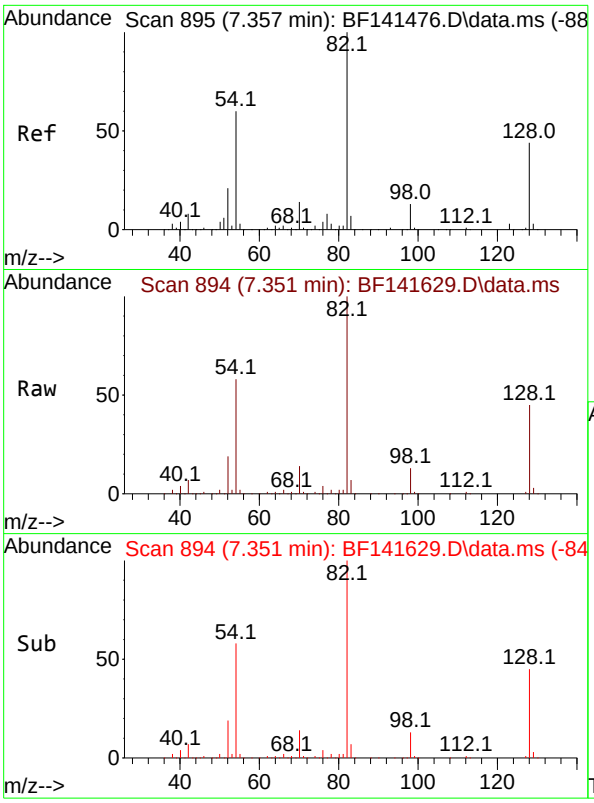


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Tgt Ion:136 Resp: 362070

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.5	7.2	10.8
68	4.4	3.7	5.5



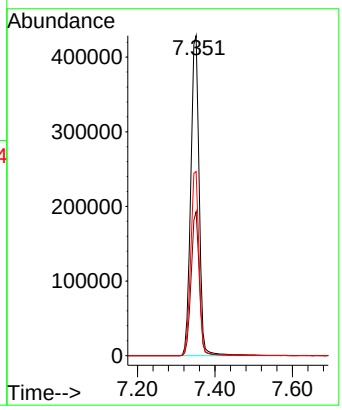


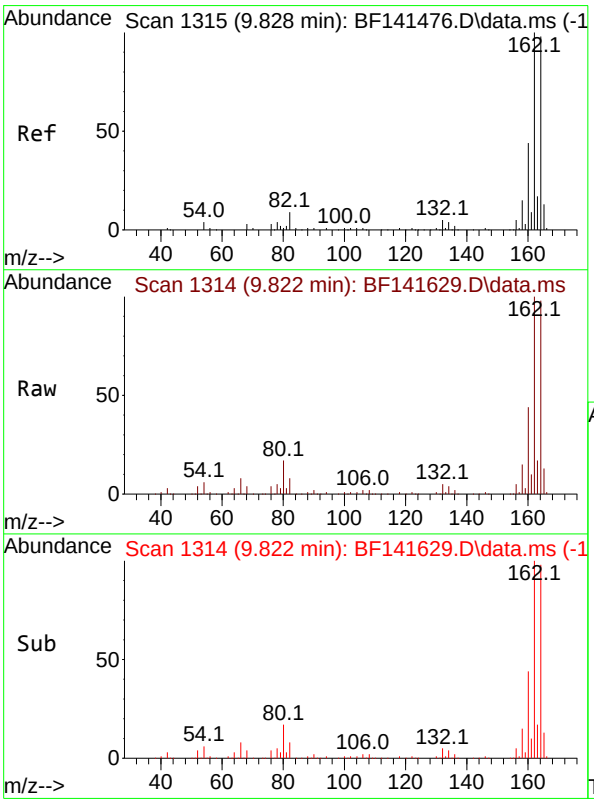
#23
Nitrobenzene-d5
Concen: 93.033 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Tgt Ion: 82 Resp: 645810

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.8	52.2
54	57.5	48.2	72.4

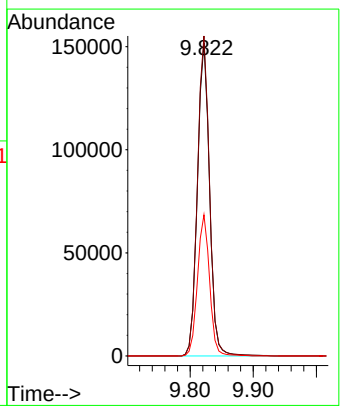


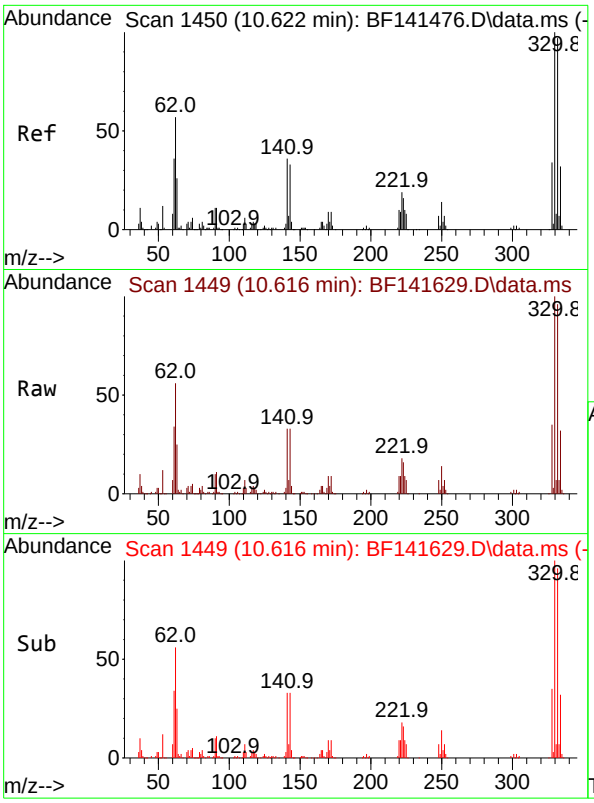


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1314
Delta R.T. -0.012 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Tgt Ion:164 Resp: 202635

Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.3	121.9
160	45.1	35.9	53.9



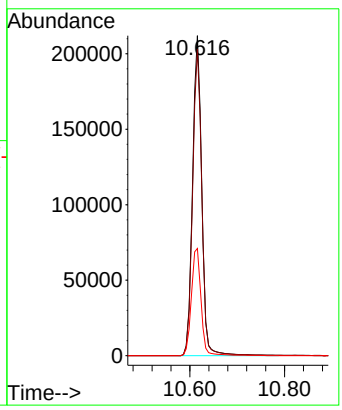


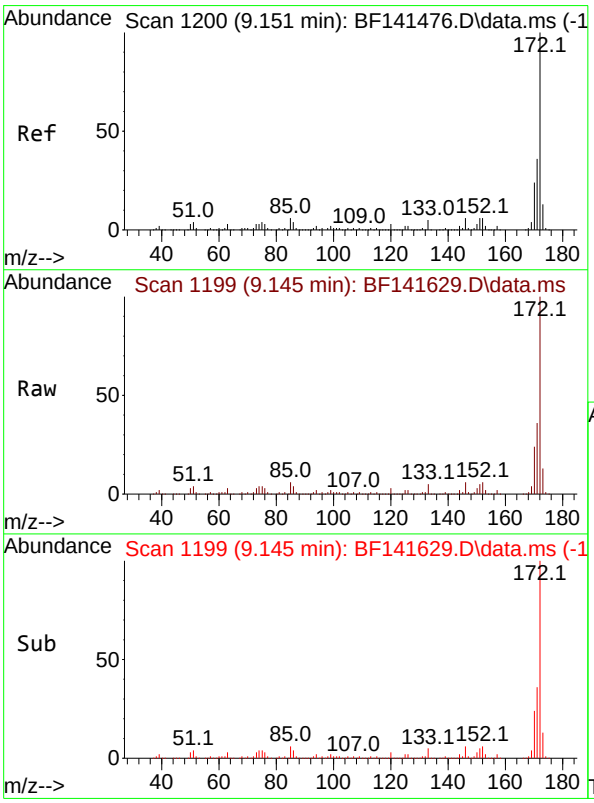
#42
2,4,6-Tribromophenol
Concen: 140.794 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Tgt Ion:330 Resp: 286595

Ion	Ratio	Lower	Upper
330	100		
332	96.1	78.5	117.7
141	35.4	31.0	46.4

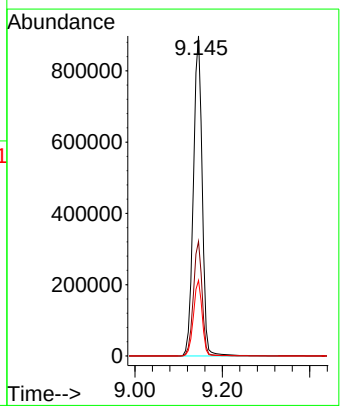


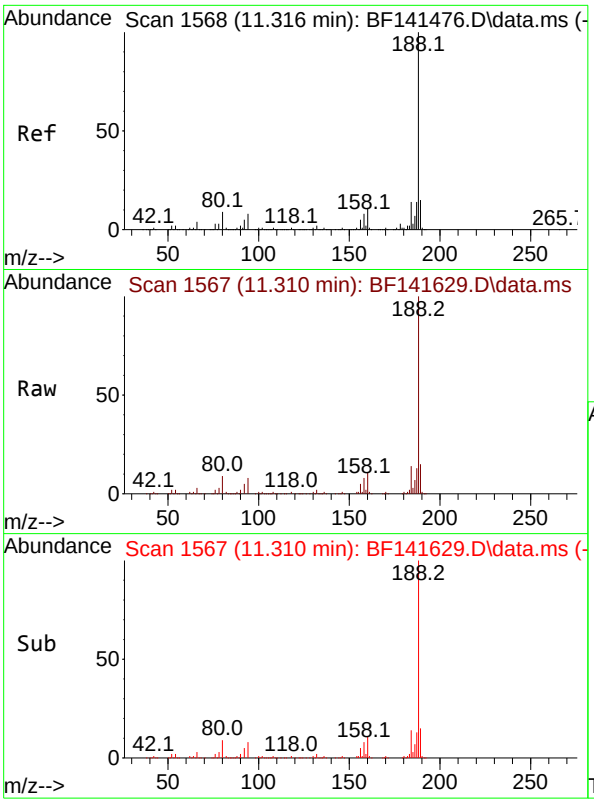


#45
2-Fluorobiphenyl
Concen: 95.771 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.006 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Tgt Ion:172 Resp: 1259645

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.7	43.1
170	23.6	18.9	28.3



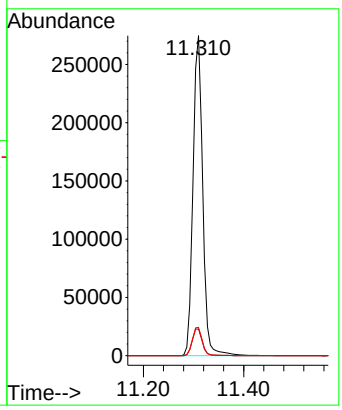


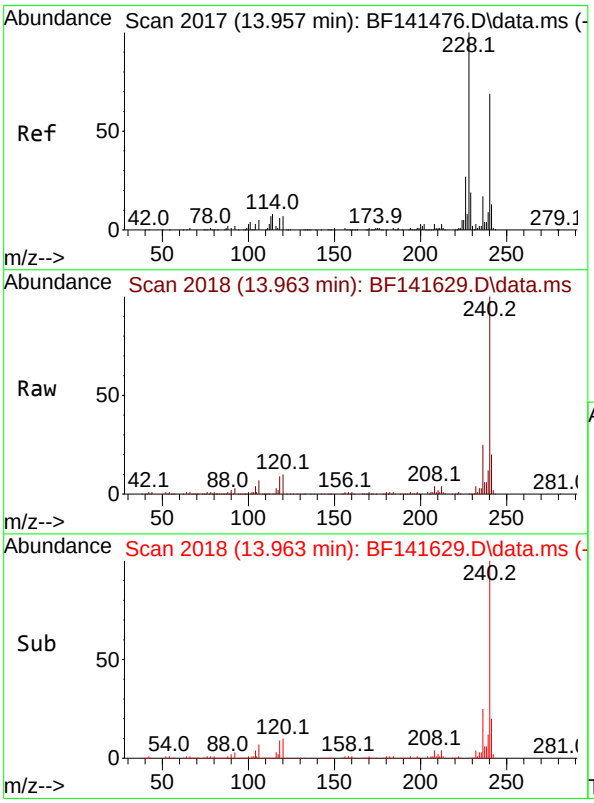
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Tgt Ion:188 Resp: 368068

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	8.9	7.3	10.9

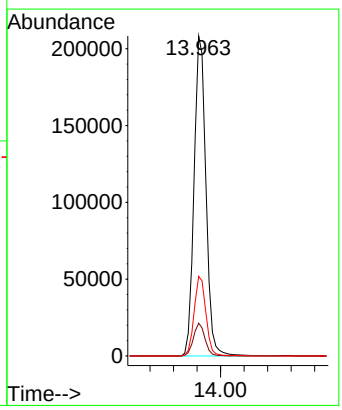


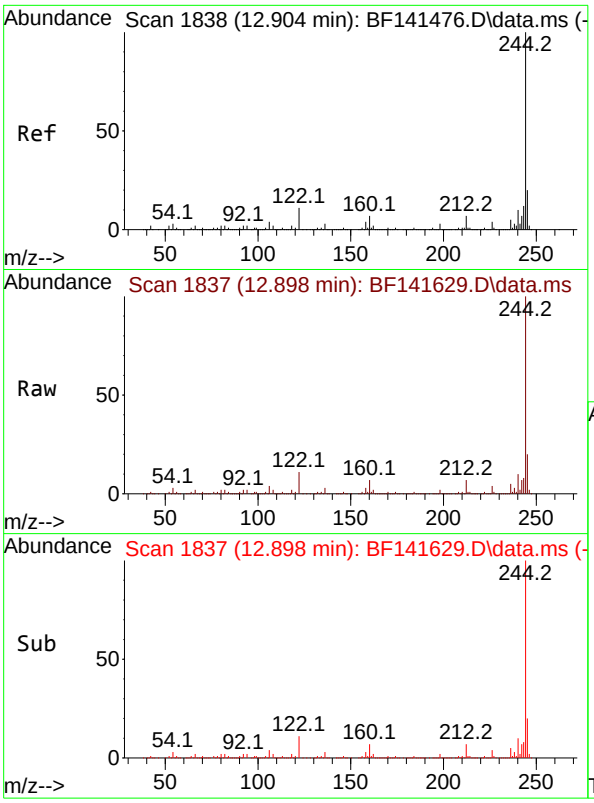


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Tgt Ion:240 Resp: 292483

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.0	12.0
236	24.9	19.8	29.8



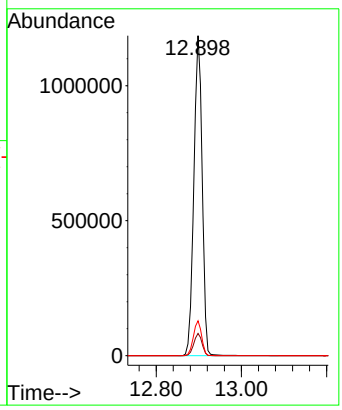


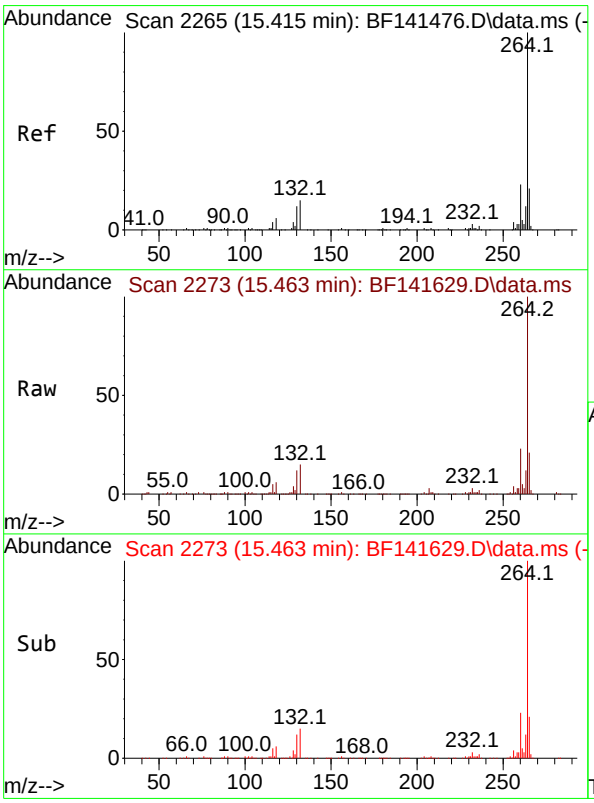
#79
Terphenyl-d14
Concen: 92.601 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Instrument :
BNA_F
ClientSampleId :
PB166711BL

Tgt Ion:244 Resp: 1604343

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.6	8.4
122	10.9	8.4	12.6

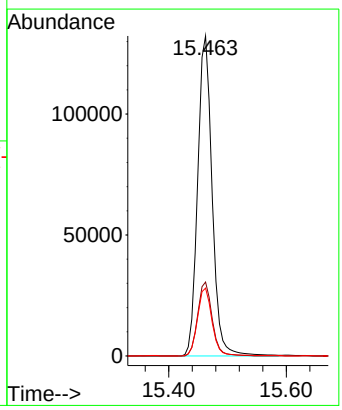




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.463 min Scan# 2273
Delta R.T. 0.047 min
Lab File: BF141629.D
Acq: 14 Feb 2025 10:29

Tgt Ion:264 Resp: 226077

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.2	17.0	25.4



Raw Data: **BF141630.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	
Client Sample ID:	PB166711BS	SDG No.:	Q1352
Lab Sample ID:	PB166711BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141630.D	1	02/13/25 09:00	02/14/25 10:55	PB166711

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	37.8		1.60	4.00	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	43.1		0.84	4.00	5.00	ug/L
95-48-7	2-Methylphenol	43.4		1.10	4.00	5.00	ug/L
65794-96-9	3+4-Methylphenols	44.5		1.20	8.00	10.0	ug/L
67-72-1	Hexachloroethane	43.7		1.00	4.00	5.00	ug/L
98-95-3	Nitrobenzene	41.4		1.30	4.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.4		1.30	4.00	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	42.5		0.89	4.00	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	41.6		1.00	4.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	44.4		1.50	4.00	5.00	ug/L
118-74-1	Hexachlorobenzene	43.7		1.10	4.00	5.00	ug/L
87-86-5	Pentachlorophenol	78.2		1.90	8.00	10.0	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	135		19 - 119		90%	SPK: 150
13127-88-3	Phenol-d6	134		10 - 130		89%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.6		44 - 120		92%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.0		44 - 119		91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		43 - 140		92%	SPK: 150
1718-51-0	Terphenyl-d14	95.2		50 - 134		95%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	91000	6.787				
1146-65-2	Naphthalene-d8	372000	8.069				
15067-26-2	Acenaphthene-d10	212000	9.822				
1517-22-2	Phenanthrene-d10	369000	11.31				
1719-03-5	Chrysene-d12	270000	13.963				
1520-96-3	Perylene-d12	195000	15.433				

Raw Data: **BF141630.D**

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

Report of Analysis

Client:	Weston Solutions			Date Collected:	
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169			Date Received:	
Client Sample ID:	PB166711BS			SDG No.:	Q1352
Lab Sample ID:	PB166711BS			Matrix:	TCLP
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141630.D	1	02/13/25 09:00	02/14/25 10:55	PB166711

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\BF021425\
Data File : BF141630.D
Acq On : 14 Feb 2025 10:55
Operator : RC/JU
Sample : PB166711BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 14 11:26:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	90964	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	371902	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	212243	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	368683	20.000	ng		0.00
76) Chrysene-d12	13.963	240	270184	20.000	ng		0.00
86) Perylene-d12	15.433	264	194810	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	784834	135.264	ng		0.01
7) Phenol-d6	6.434	99	981348	133.817	ng		0.00
23) Nitrobenzene-d5	7.351	82	652882	91.565	ng		-0.01
42) 2,4,6-Tribromophenol	10.616	330	293116	137.479	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1253581	90.996	ng		0.00
79) Terphenyl-d14	12.898	244	1523434	95.188	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.587	88	94831	40.608	ng		98
3) Pyridine	3.322	79	210182	37.823	ng		95
4) n-Nitrosodimethylamine	3.269	42	144743	39.337	ng		92
6) Aniline	6.451	93	243539	35.402	ng	#	71
8) 2-Chlorophenol	6.575	128	279313	44.551	ng		99
9) Benzaldehyde	6.340	77	137197	35.205	ng		97
10) Phenol	6.445	94	323723	42.412	ng		96
11) bis(2-Chloroethyl)ether	6.522	93	268517	46.837	ng		100
12) 1,3-Dichlorobenzene	6.728	146	286308	43.256	ng		98
13) 1,4-Dichlorobenzene	6.804	146	291707	43.135	ng		99
14) 1,2-Dichlorobenzene	6.957	146	276739	44.091	ng		99
15) Benzyl Alcohol	6.934	79	237860	42.296	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.063	45	413377	42.122	ng		75
17) 2-Methylphenol	7.051	107	213128	43.440	ng		96
18) Hexachloroethane	7.298	117	109475	43.742	ng		96
19) n-Nitroso-di-n-propyla...	7.204	70	190828	43.502	ng		97
20) 3+4-Methylphenols	7.204	107	277335	44.479	ng		95
22) Acetophenone	7.198	105	421831	45.597	ng		95
24) Nitrobenzene	7.375	77	287726	41.382	ng		97
25) Isophorone	7.610	82	513476	45.165	ng		99
26) 2-Nitrophenol	7.686	139	147327	42.590	ng		95
27) 2,4-Dimethylphenol	7.728	122	222598	55.084	ng		98
28) bis(2-Chloroethoxy)met...	7.822	93	323428	44.396	ng		99
29) 2,4-Dichlorophenol	7.939	162	235576	43.145	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	246032	41.379	ng		99
31) Naphthalene	8.092	128	803179	41.489	ng		100
32) Benzoic acid	7.869	122	177189	42.213	ng		96
33) 4-Chloroaniline	8.151	127	98890	14.631	ng		98
34) Hexachlorobutadiene	8.204	225	154911	43.398	ng		99
35) Caprolactam	8.516	113	82306m	49.509	ng		
36) 4-Chloro-3-methylphenol	8.639	107	257123	42.512	ng		100
37) 2-Methylnaphthalene	8.781	142	513246	40.742	ng		99
38) 1-Methylnaphthalene	8.881	142	498933	40.893	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	278963	45.430	ng		98
41) Hexachlorocyclopentadiene	8.933	237	291755	142.852	ng		99
43) 2,4,6-Trichlorophenol	9.069	196	168826	42.540	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141630.D
Acq On : 14 Feb 2025 10:55
Operator : RC/JU
Sample : PB166711BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 14 11:26:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	179056	41.630	ng	98
46) 1,1'-Biphenyl	9.245	154	745855	45.328	ng	99
47) 2-Chloronaphthalene	9.269	162	508835	41.818	ng	99
48) 2-Nitroaniline	9.375	65	166155	40.689	ng	95
49) Acenaphthylene	9.686	152	784782	43.362	ng	100
50) Dimethylphthalate	9.551	163	621981	43.167	ng	100
51) 2,6-Dinitrotoluene	9.616	165	134931	42.838	ng	96
52) Acenaphthene	9.857	154	495714	40.742	ng	99
53) 3-Nitroaniline	9.786	138	91850	27.093	ng	95
54) 2,4-Dinitrophenol	9.898	184	164078	87.647	ng	94
55) Dibenzofuran	10.033	168	713832	39.970	ng	99
56) 4-Nitrophenol	9.963	139	210075	83.475	ng	97
57) 2,4-Dinitrotoluene	10.022	165	186028	44.364	ng	98
58) Fluorene	10.375	166	577543	41.824	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	157267	42.470	ng	95
60) Diethylphthalate	10.251	149	604022	42.608	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	280535	42.229	ng	100
62) 4-Nitroaniline	10.404	138	142107	41.281	ng	97
63) Azobenzene	10.528	77	575345	40.824	ng	96
65) 4,6-Dinitro-2-methylph...	10.433	198	108077	42.200	ng	93
66) n-Nitrosodiphenylamine	10.486	169	511215	43.316	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	178050	43.211	ng	99
68) Hexachlorobenzene	10.922	284	185558	43.733	ng	99
69) Atrazine	11.016	200	196997	55.640	ng	99
70) Pentachlorophenol	11.122	266	212252	78.233	ng	98
71) Phenanthrene	11.333	178	880466	43.385	ng	100
72) Anthracene	11.386	178	904106	44.317	ng	100
73) Carbazole	11.545	167	783953	42.707	ng	100
74) Di-n-butylphthalate	11.869	149	954420	45.029	ng	100
75) Fluoranthene	12.521	202	928025	43.132	ng	100
77) Benzidine	12.651	184	271228	45.518	ng	99
78) Pyrene	12.751	202	941150	40.920	ng	100
80) Butylbenzylphthalate	13.368	149	371547	46.639	ng	99
81) Benzo(a)anthracene	13.951	228	772840	43.031	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	162575	31.600	ng	97
83) Chrysene	13.986	228	712862	42.987	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	469530	52.257	ng	99
85) Di-n-octyl phthalate	14.574	149	679262	52.993	ng	98
87) Indeno(1,2,3-cd)pyrene	16.886	276	528877	43.937	ng	99
88) Benzo(b)fluoranthene	15.015	252	622615	47.599	ng	99
89) Benzo(k)fluoranthene	15.045	252	482488	43.196	ng	99
90) Benzo(a)pyrene	15.374	252	493463	46.622	ng	99
91) Dibenzo(a,h)anthracene	16.898	278	423612	43.432	ng	99
92) Benzo(g,h,i)perylene	17.321	276	421022	41.250	ng	99

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

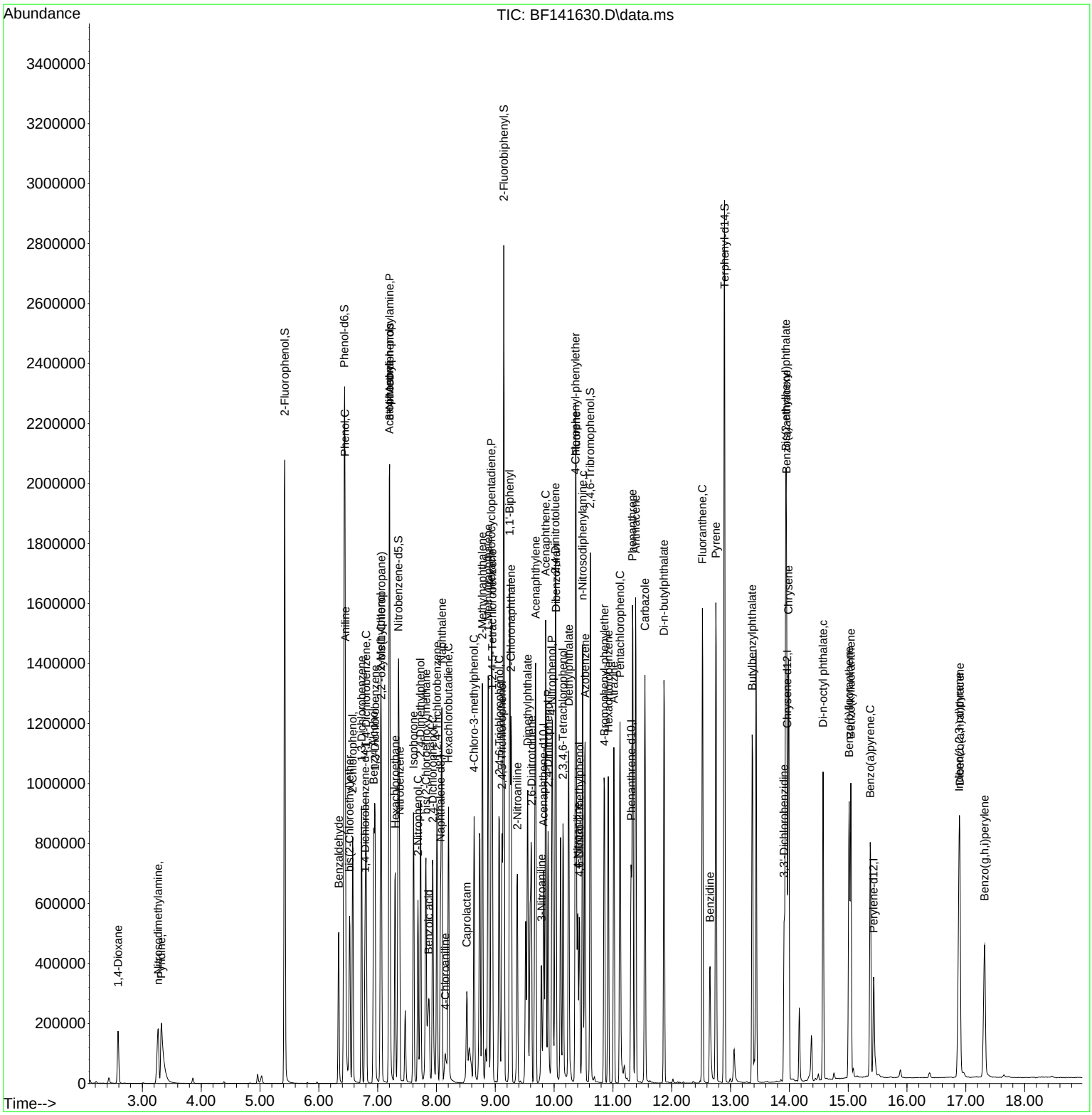
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141630.D
Acq On : 14 Feb 2025 10:55
Operator : RC/JU
Sample : PB166711BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

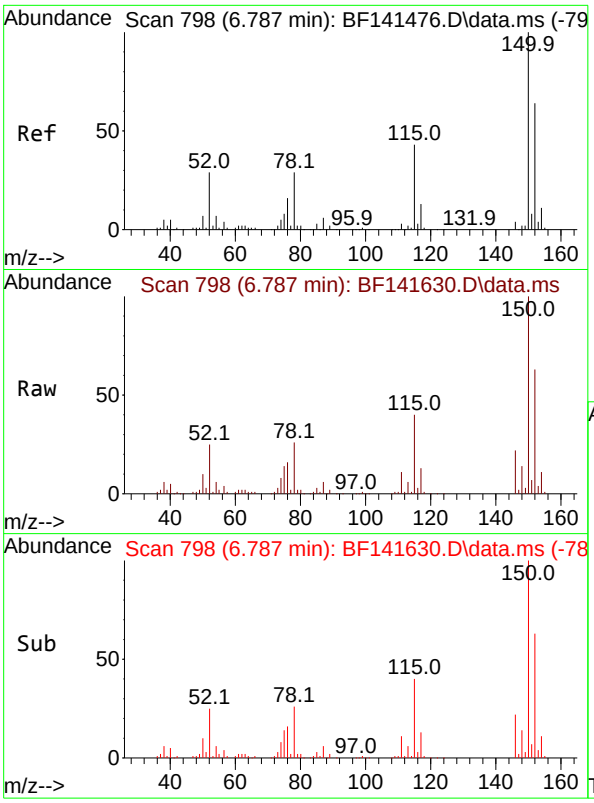
Quant Time: Feb 14 11:26:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

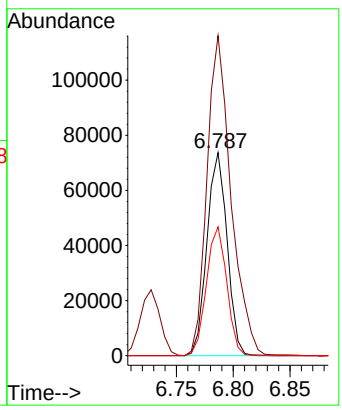




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:152 Resp: 9096

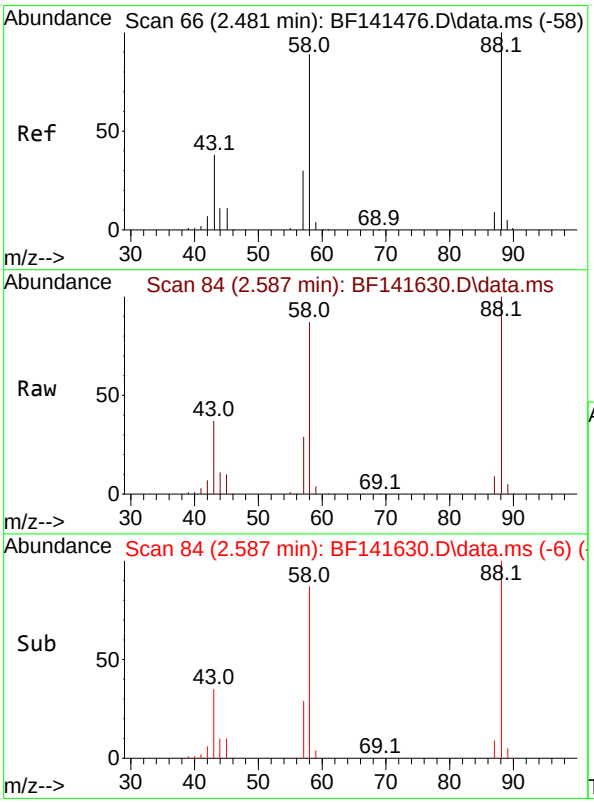
Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	63.4	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

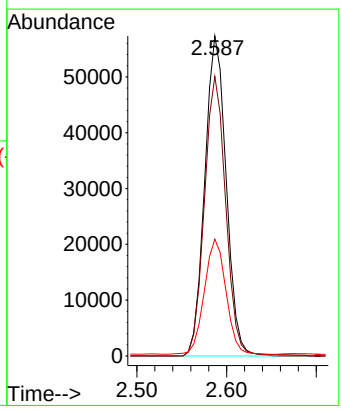
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

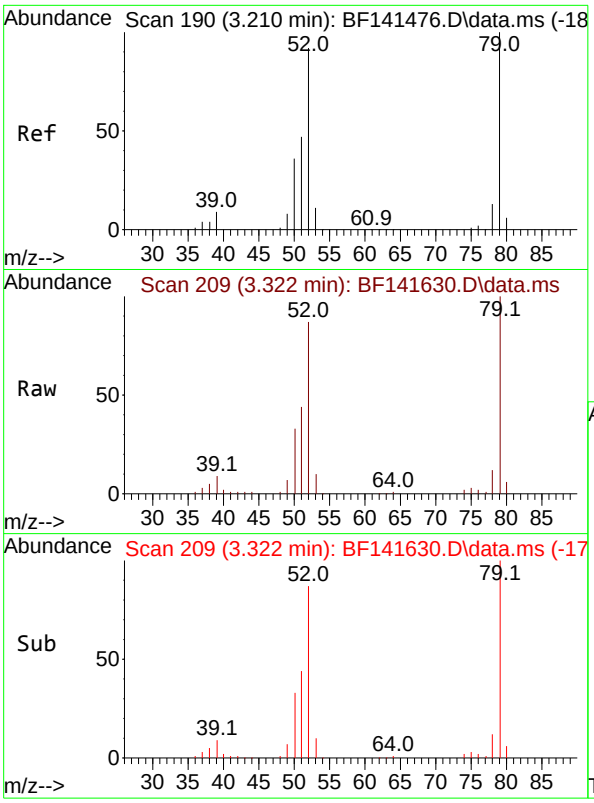


#2
1,4-Dioxane
Concen: 40.608 ng
RT: 2.587 min Scan# 84
Delta R.T. 0.106 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 88 Resp: 94831

Ion	Ratio	Lower	Upper
88	100		
58	87.3	71.1	106.7
43	36.3	30.6	46.0

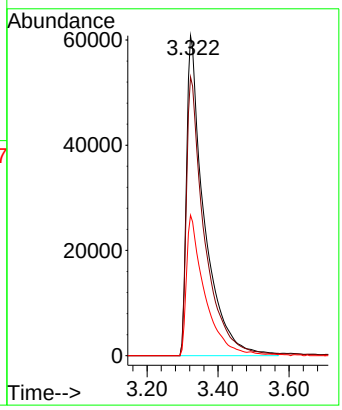




#3
Pyridine
Concen: 37.823 ng
RT: 3.322 min Scan# 2
Delta R.T. 0.106 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 79 Resp: 21018

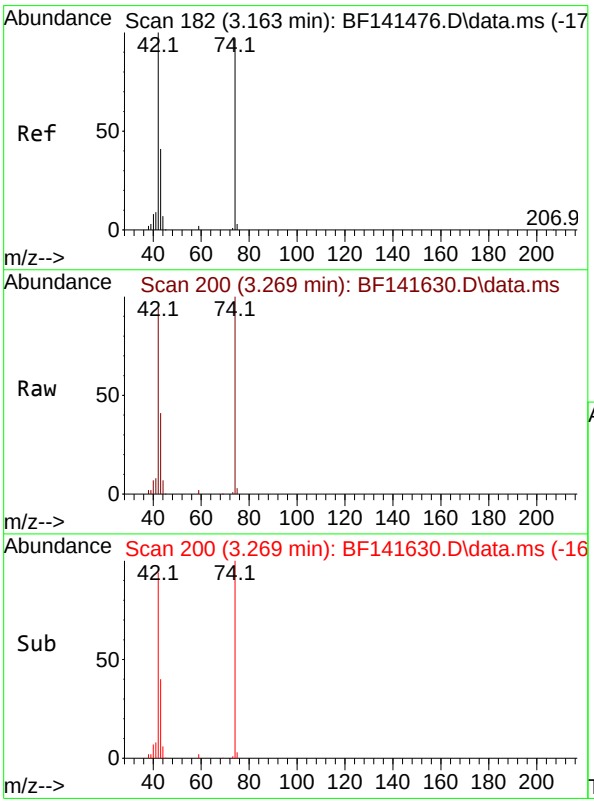
Ion	Ratio	Lower	Upper
79	100		
52	87.1	73.7	110.5
51	43.9	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

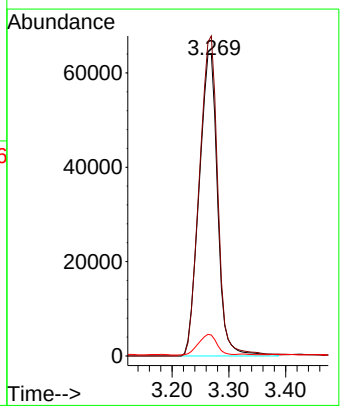
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

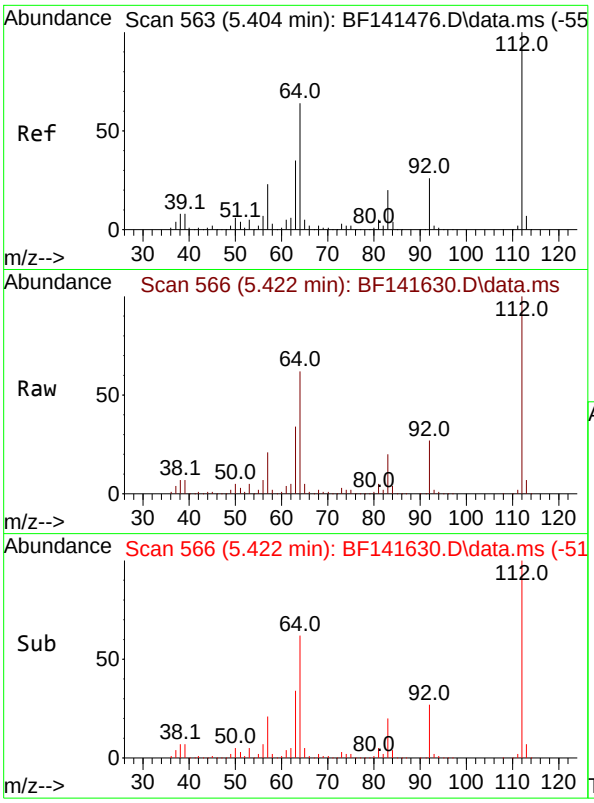


#4
n-Nitrosodimethylamine
Concen: 39.337 ng
RT: 3.269 min Scan# 200
Delta R.T. 0.082 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 42 Resp: 144743

Ion	Ratio	Lower	Upper
42	100		
74	105.8	78.0	117.0
44	6.9	5.4	8.2





#5
2-Fluorophenol
Concen: 135.264 ng
RT: 5.422 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

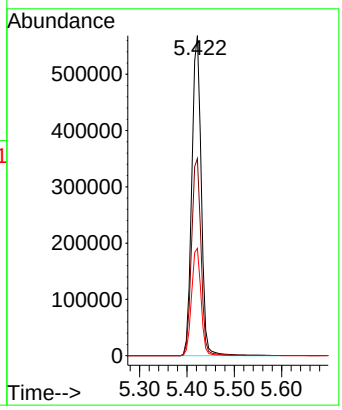
Tgt Ion:112 Resp: 78483

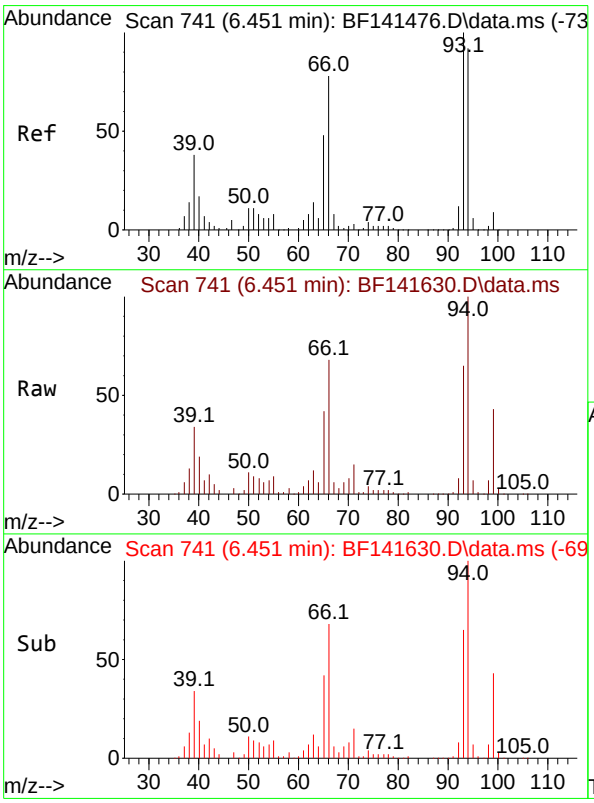
Ion	Ratio	Lower	Upper
112	100		
64	61.6	51.1	76.7
63	33.5	28.4	42.6

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

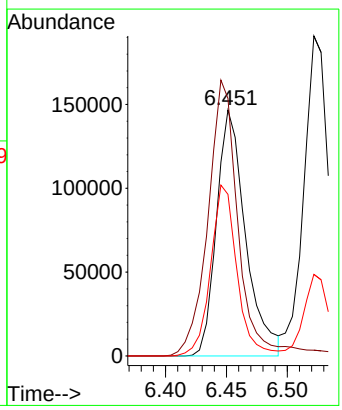


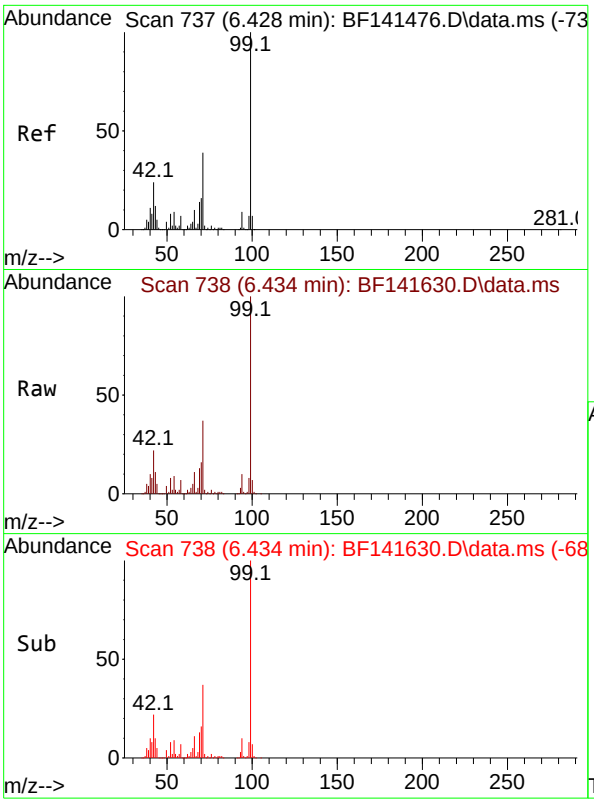


#6
Aniline
Concen: 35.402 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 93 Resp: 243539

Ion	Ratio	Lower	Upper
93	100		
66	104.7	62.6	94.0#
65	65.7	38.3	57.5#

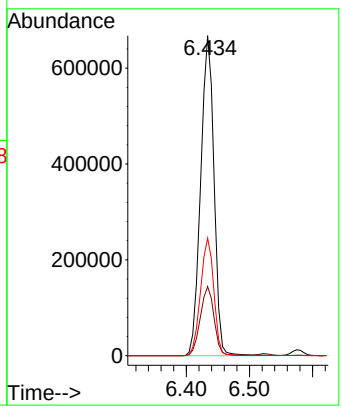




#7
Phenol-d6
Concen: 133.817 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 99 Resp: 98134

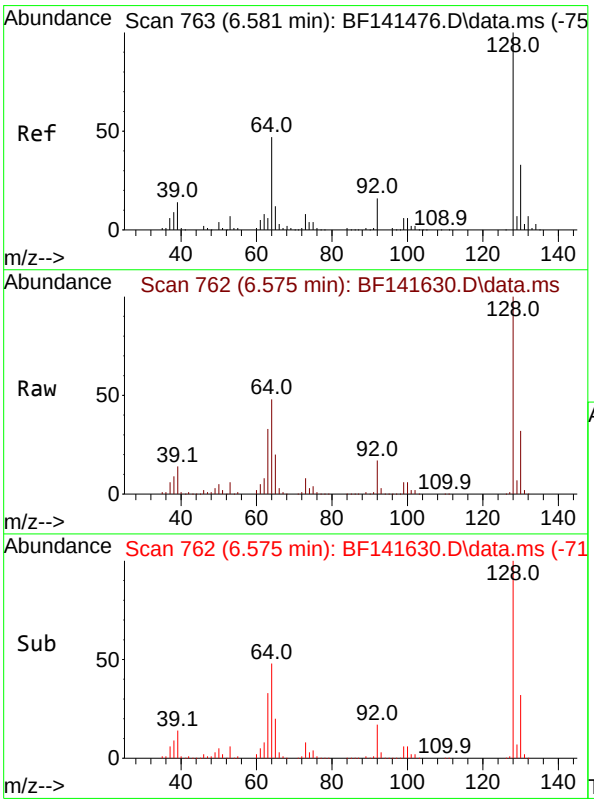
Ion	Ratio	Lower	Upper
99	100		
42	21.6	19.1	28.7
71	36.8	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

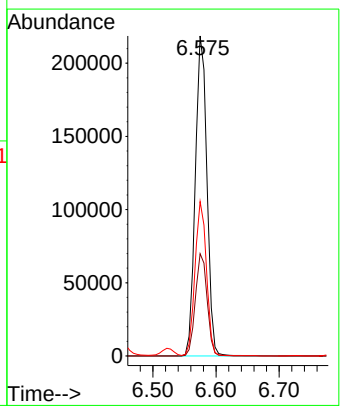
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

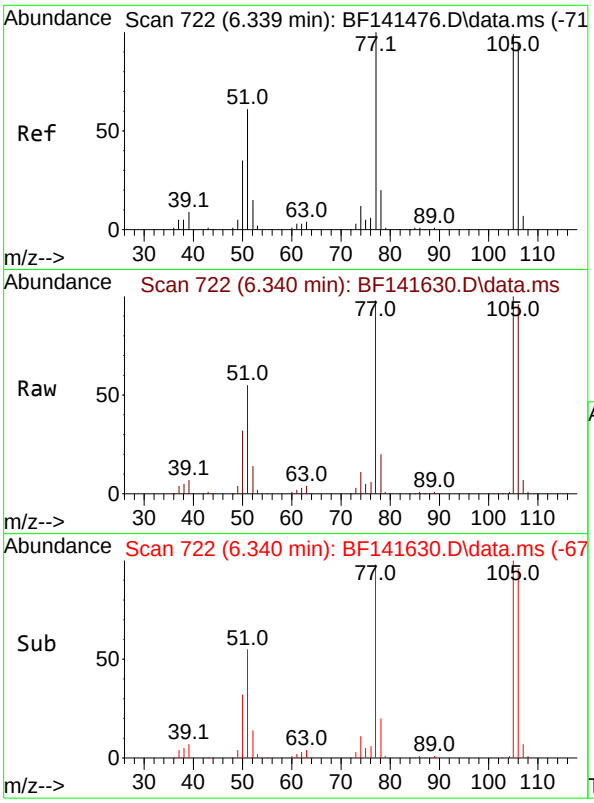


#8
2-Chlorophenol
Concen: 44.551 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:128 Resp: 279313

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.7	52.7
64	48.3	28.3	68.3

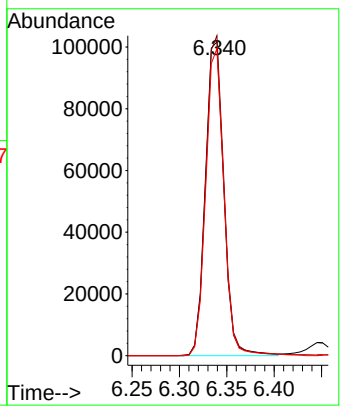




#9
Benzaldehyde
Concen: 35.205 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 77 Resp: 13719

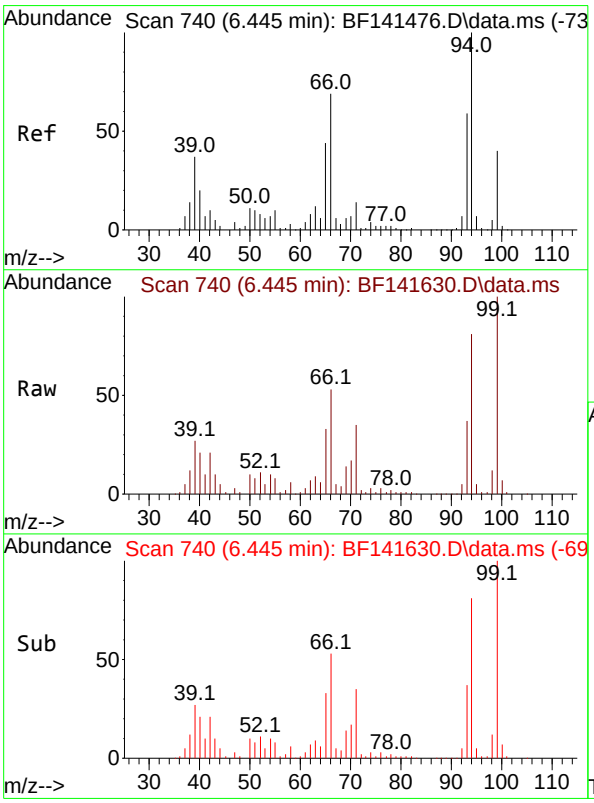
Ion	Ratio	Lower	Upper
77	100		
105	101.9	79.4	119.4
106	97.8	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

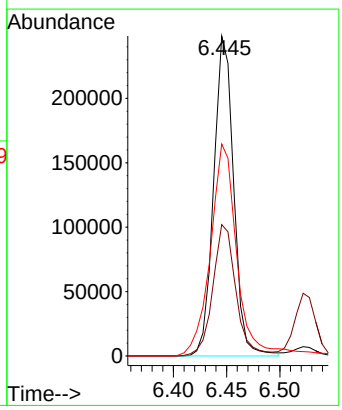
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

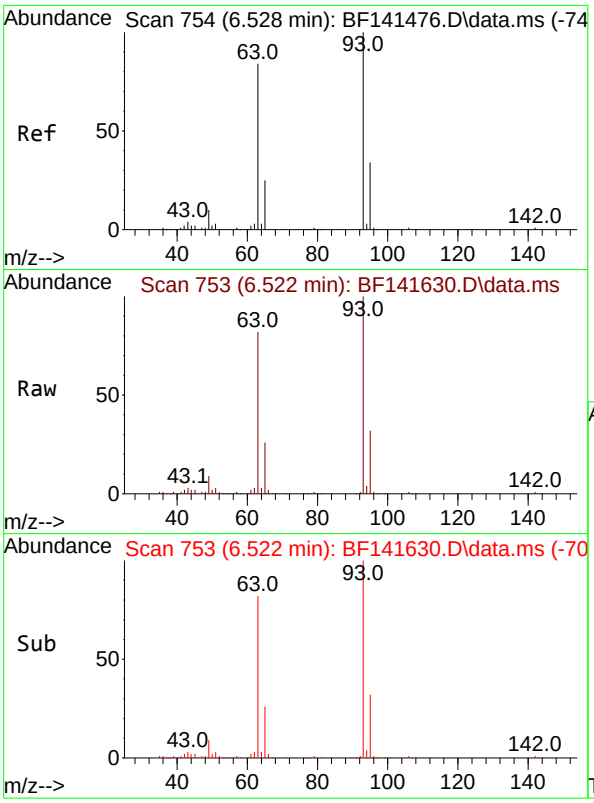


#10
Phenol
Concen: 42.412 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 94 Resp: 323723

Ion	Ratio	Lower	Upper
94	100		
65	41.0	23.7	63.7
66	66.2	49.3	89.3

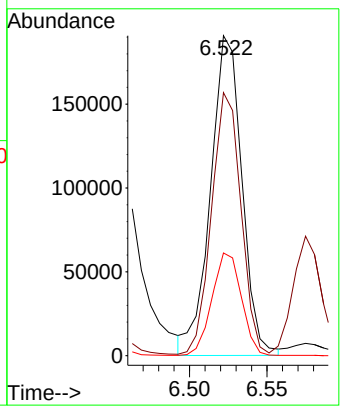




#11
bis(2-Chloroethyl)ether
Concen: 46.837 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 93 Resp: 26851

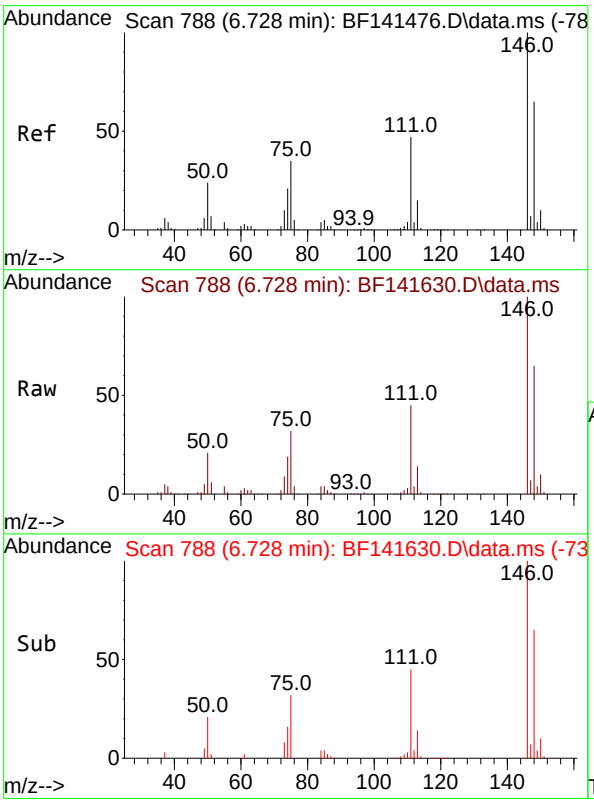
Ion	Ratio	Lower	Upper
93	100		
63	82.2	62.0	102.0
95	32.1	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

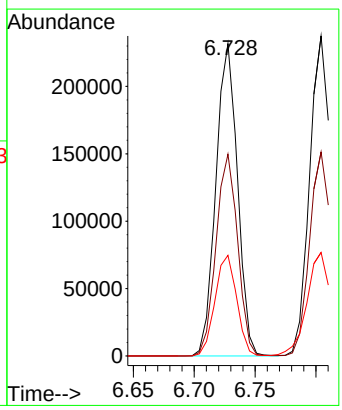
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

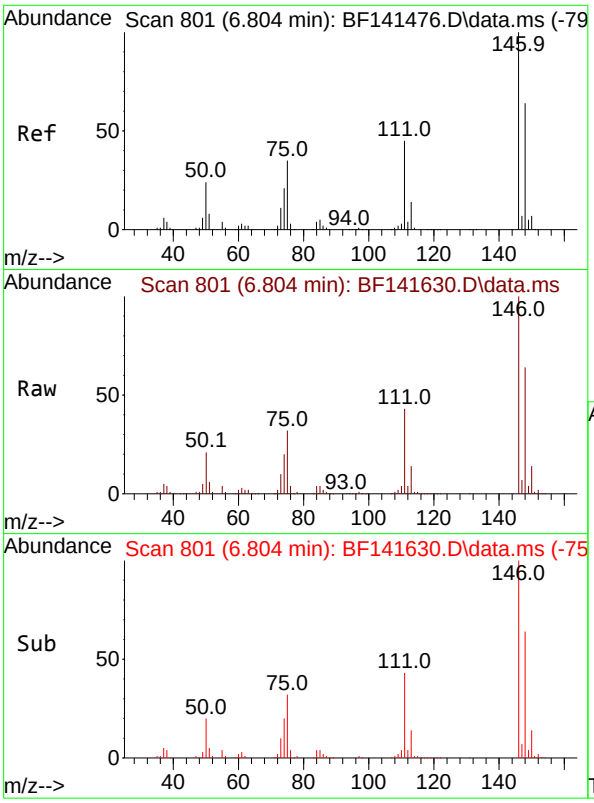


#12
1,3-Dichlorobenzene
Concen: 43.256 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:146 Resp: 286308

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.9	77.9
75	32.2	28.2	42.2

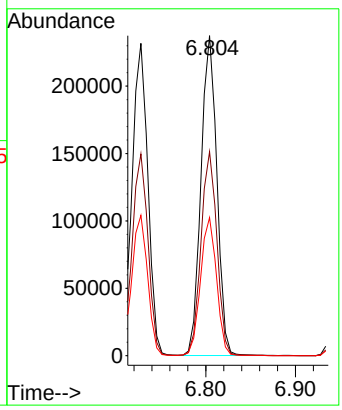




#13
1,4-Dichlorobenzene
Concen: 43.135 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:146 Resp: 29170

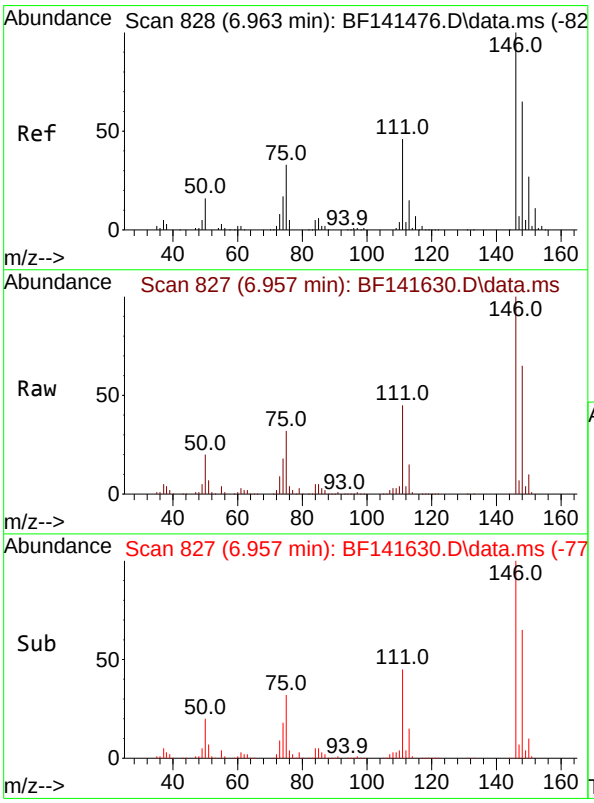
Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.9	76.3
111	43.1	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

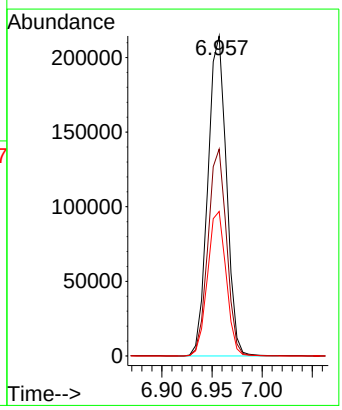
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

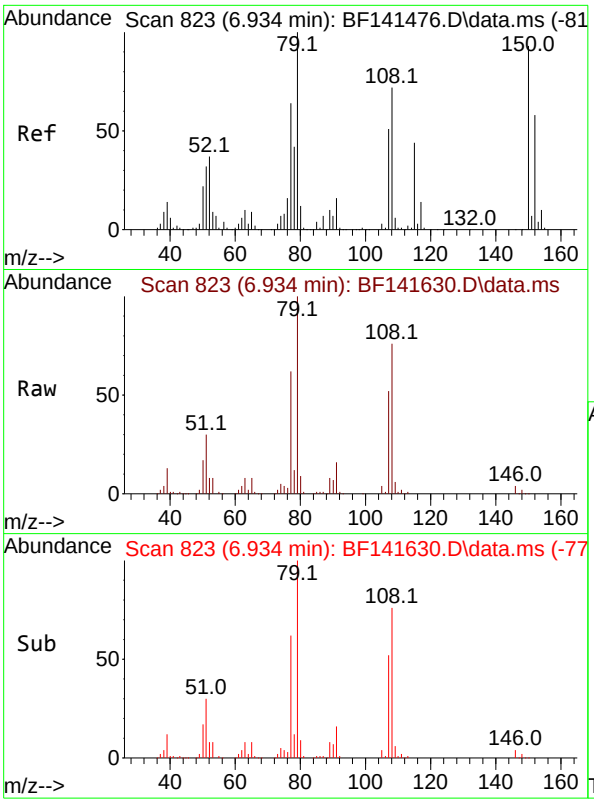


#14
1,2-Dichlorobenzene
Concen: 44.091 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:146 Resp: 276739

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.8	77.6
111	45.1	37.0	55.4





#15
Benzyl Alcohol
Concen: 42.296 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

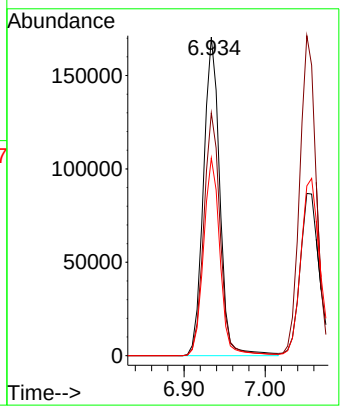
Tgt Ion: 79 Resp: 23786

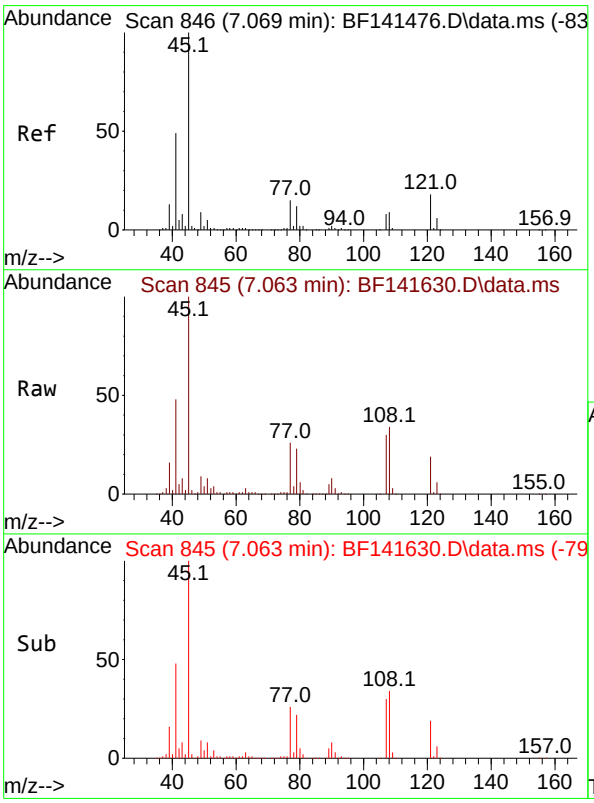
Ion	Ratio	Lower	Upper
79	100		
108	76.2	57.4	86.2
77	62.0	50.9	76.3

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

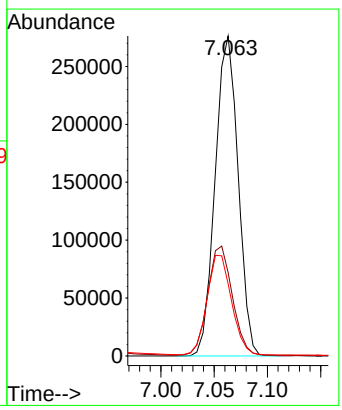


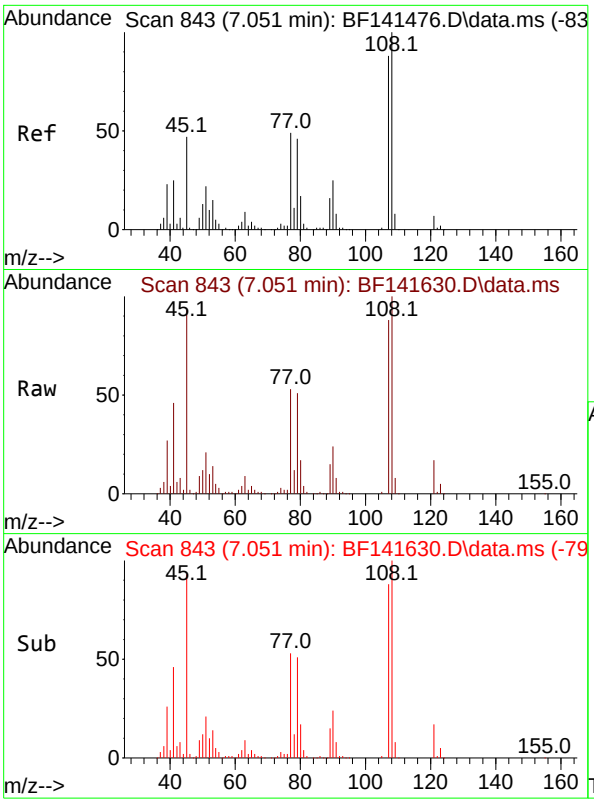


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.122 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 45 Resp: 413377

Ion	Ratio	Lower	Upper
45	100		
77	26.1	0.0	35.8
79	22.6	0.0	32.7

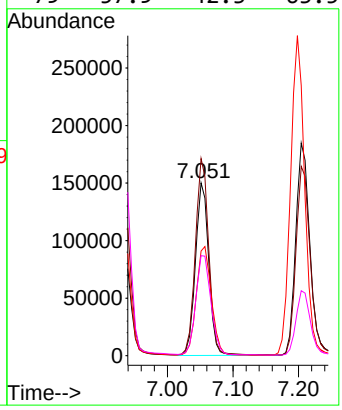




#17
2-Methylphenol
Concen: 43.440 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:107 Resp: 21312

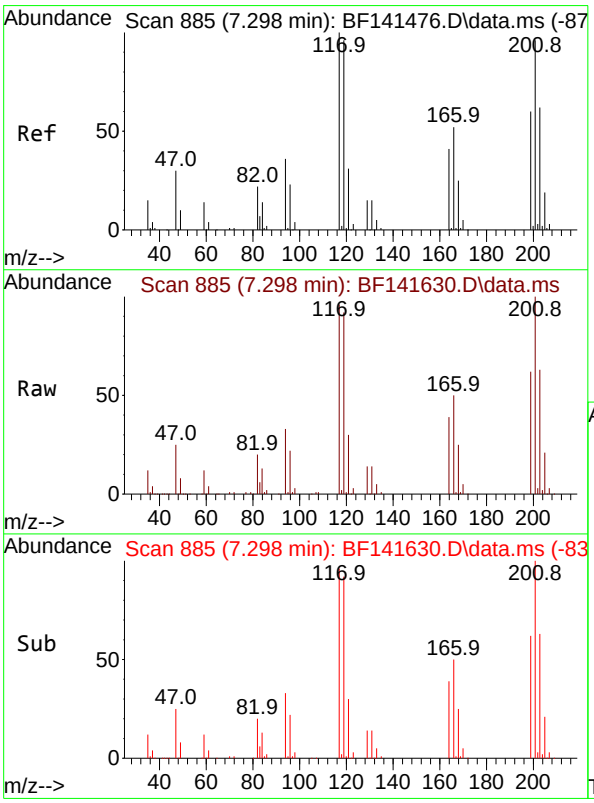
Ion	Ratio	Lower	Upper
107	100		
108	114.1	90.6	136.0
77	60.5	44.4	66.6
79	57.9	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

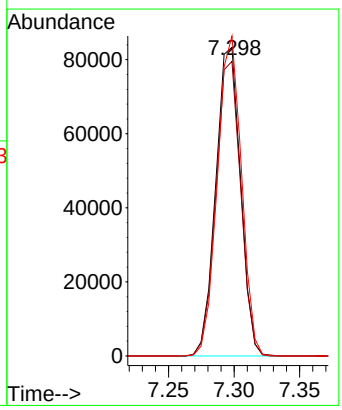
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

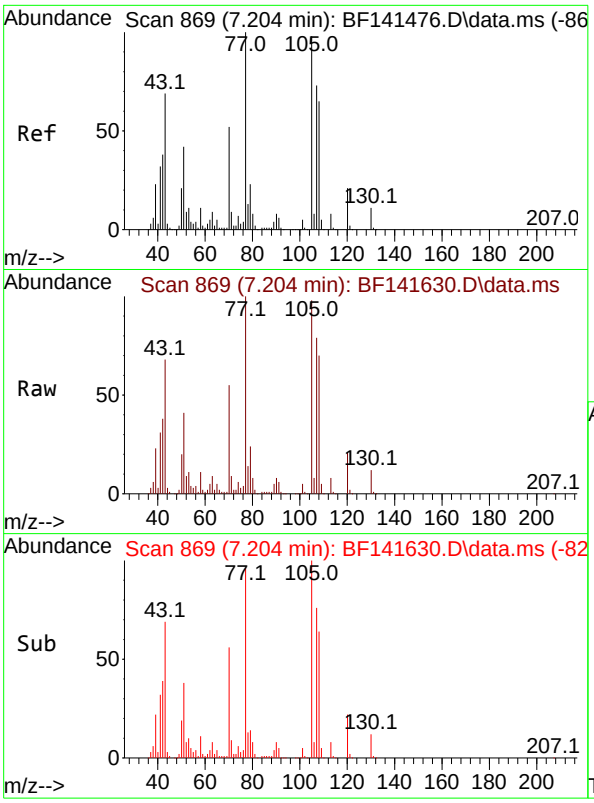


#18
Hexachloroethane
Concen: 43.742 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:117 Resp: 109475

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.5	114.7
201	103.7	76.7	115.1

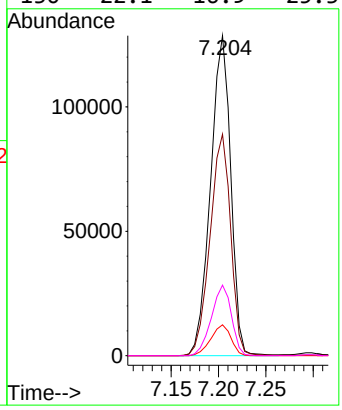




#19
n-Nitroso-di-n-propylamine
Concen: 43.502 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 70 Resp: 19082

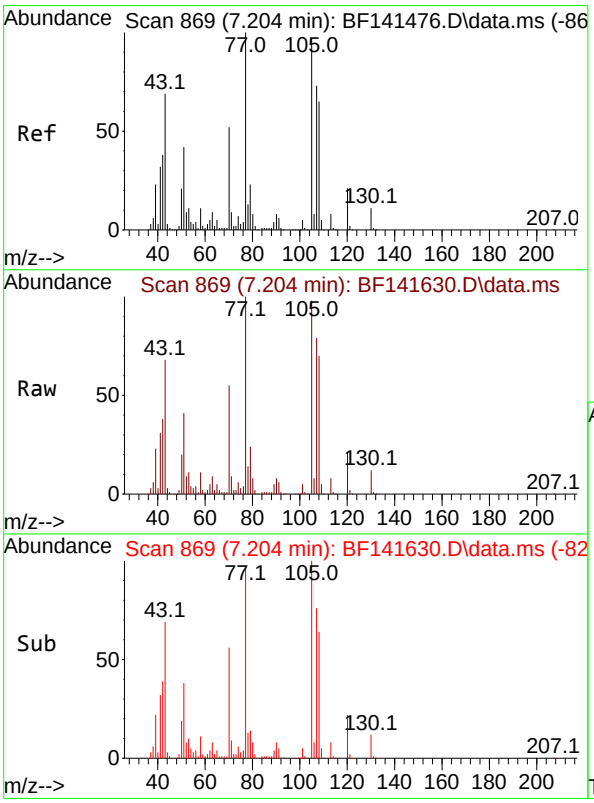
Ion	Ratio	Lower	Upper
70	100		
42	69.2	57.4	86.2
101	9.6	8.0	12.0
130	22.1	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

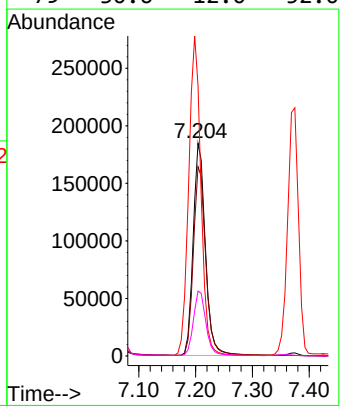
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

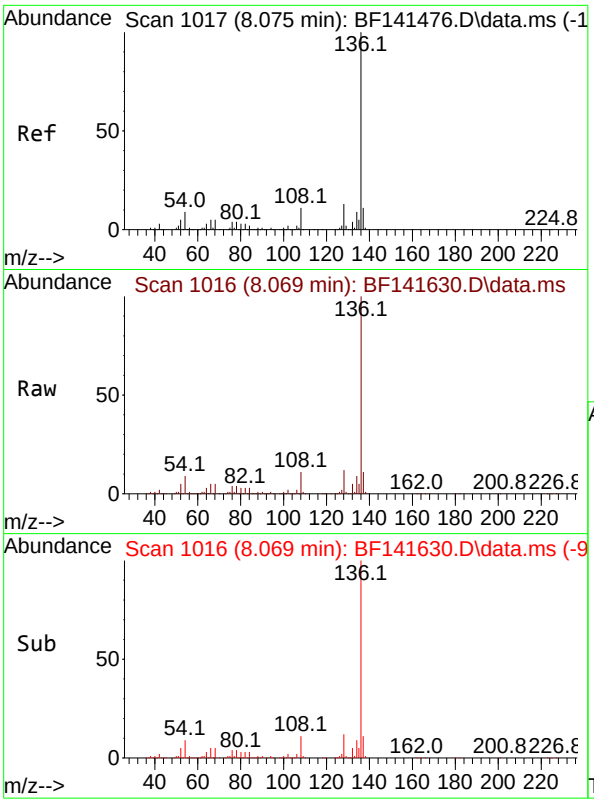


#20
3+4-Methylphenols
Concen: 44.479 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:107 Resp: 277335

Ion	Ratio	Lower	Upper
107	100		
108	89.0	68.5	108.5
77	127.0	116.5	156.5
79	30.6	12.0	52.0

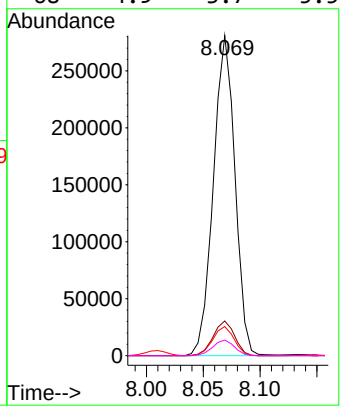




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:136 Resp: 37190

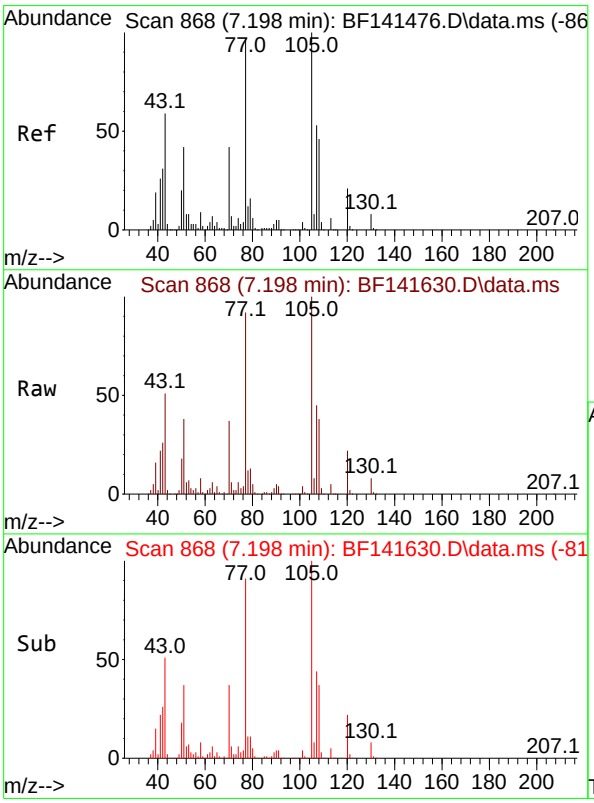
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	9.1	7.2	10.8
68	4.9	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

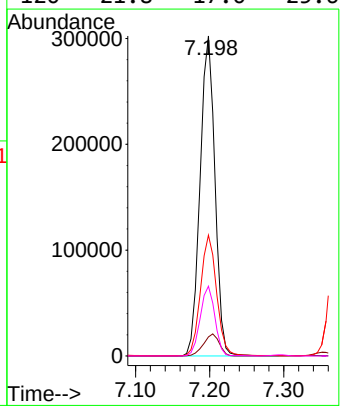
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

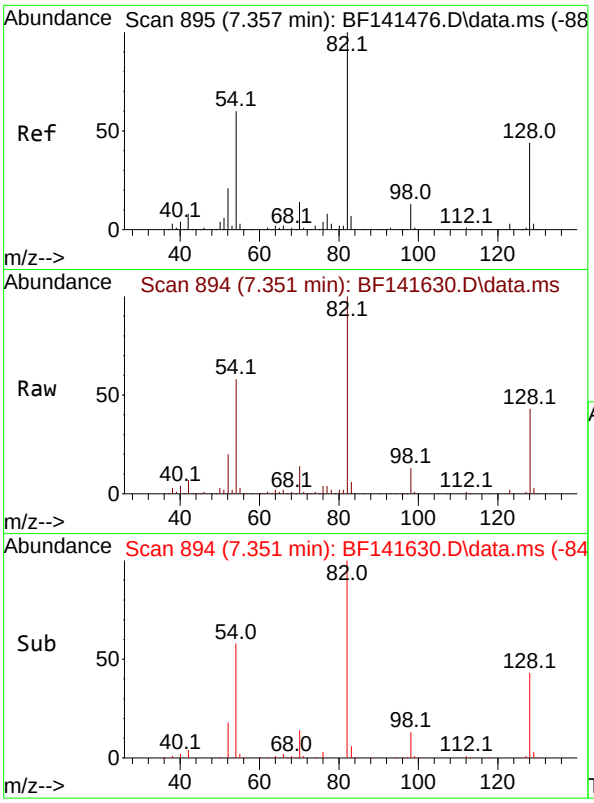


#22
Acetophenone
Concen: 45.597 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:105 Resp: 421831

Ion	Ratio	Lower	Upper
105	100		
71	6.0	5.7	8.5
51	37.7	33.7	50.5
120	21.8	17.0	25.6

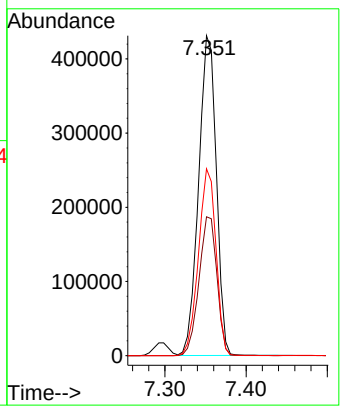




#23
Nitrobenzene-d5
Concen: 91.565 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 82 Resp: 65288

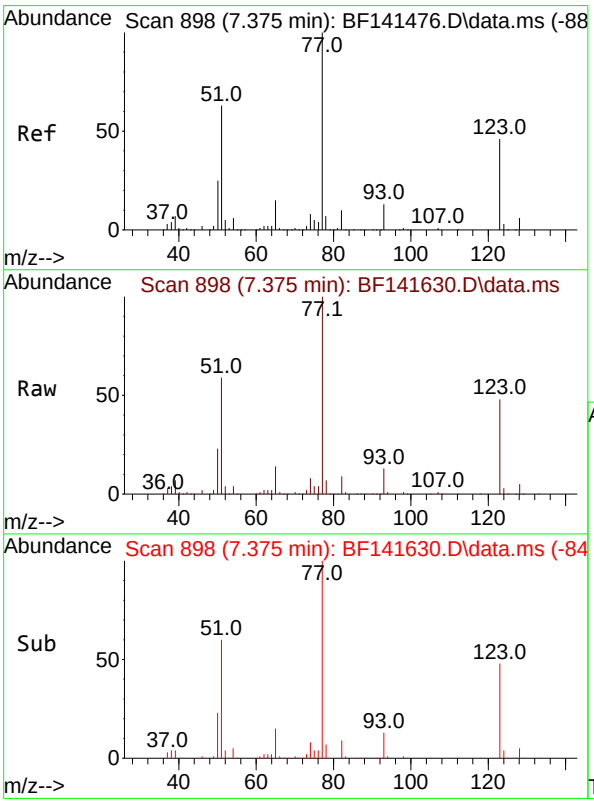
Ion	Ratio	Lower	Upper
82	100		
128	43.4	34.8	52.2
54	58.4	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

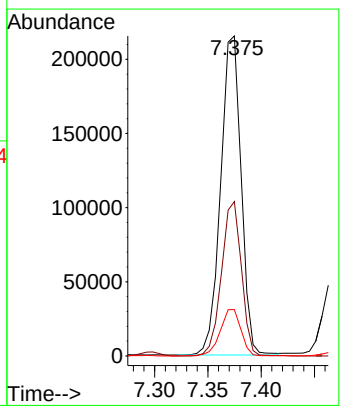
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

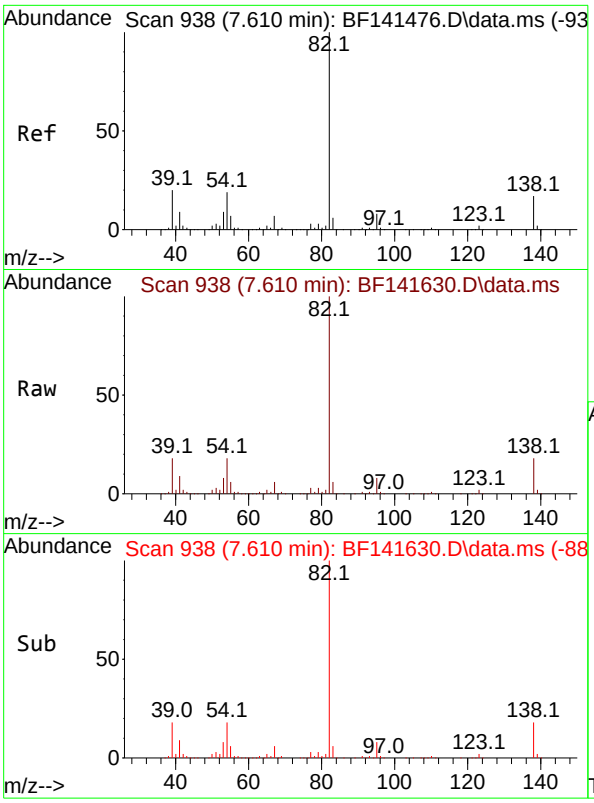


#24
Nitrobenzene
Concen: 41.382 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 77 Resp: 287726

Ion	Ratio	Lower	Upper
77	100		
123	48.2	36.9	55.3
65	14.5	11.9	17.9

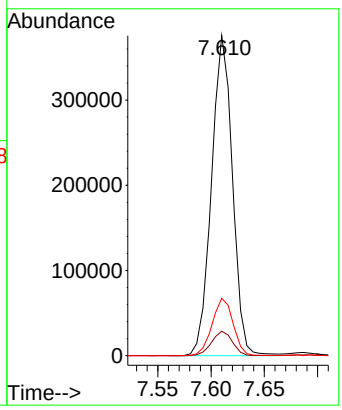




#25
Isophorone
Concen: 45.165 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 82 Resp: 51347

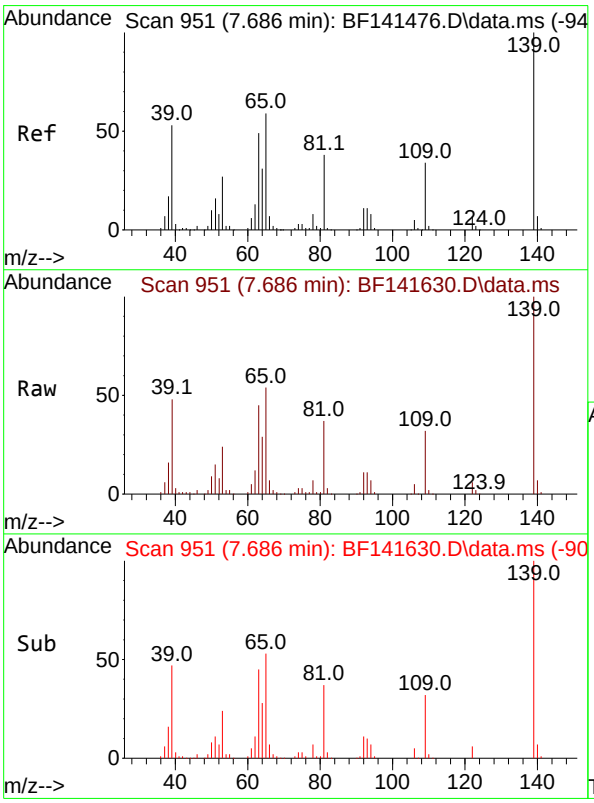
Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	17.9	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

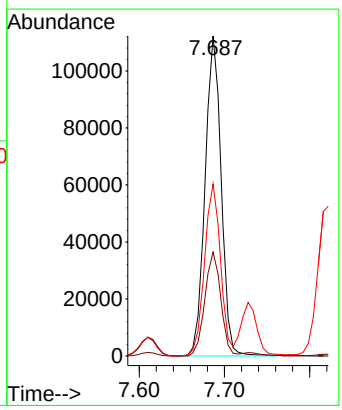
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

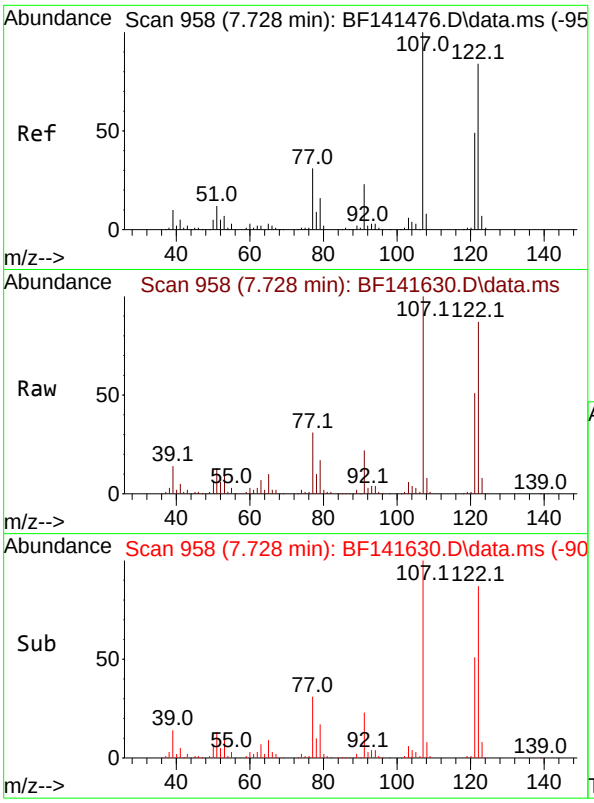


#26
2-Nitrophenol
Concen: 42.590 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:139 Resp: 147327

Ion	Ratio	Lower	Upper
139	100		
109	32.4	27.0	40.6
65	53.8	47.1	70.7

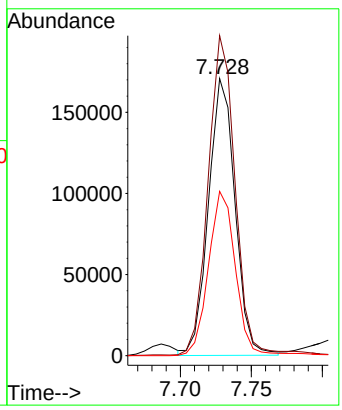




#27
2,4-Dimethylphenol
Concen: 55.084 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:122 Resp: 22259

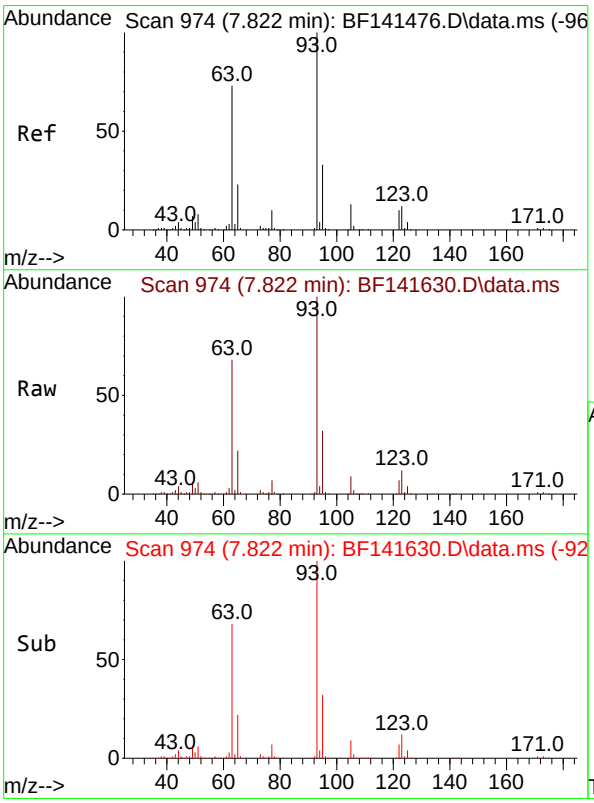
Ion	Ratio	Lower	Upper
122	100		
107	115.5	94.3	141.5
121	59.3	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

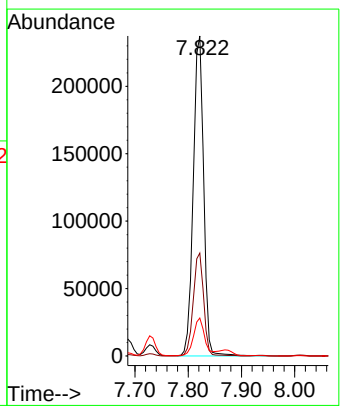
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

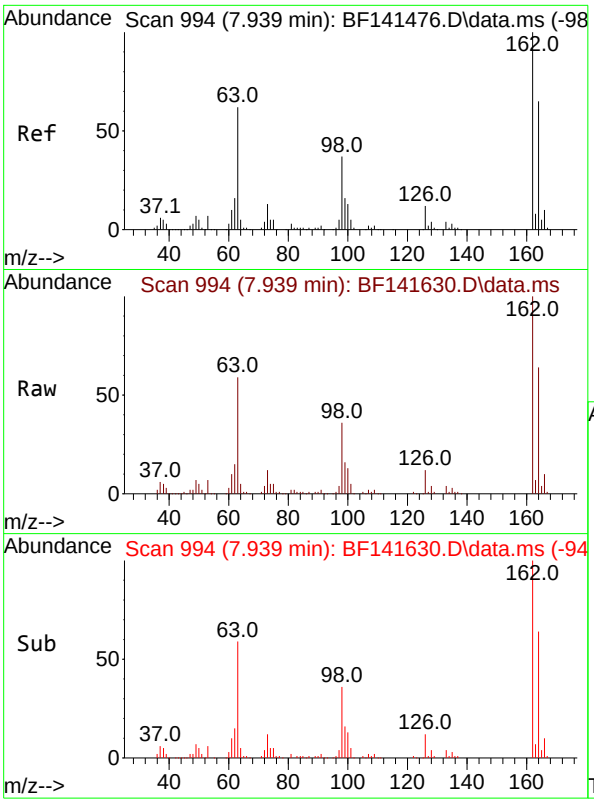


#28
bis(2-Chloroethoxy)methane
Concen: 44.396 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 93 Resp: 323428

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.1	39.1
123	11.8	9.5	14.3

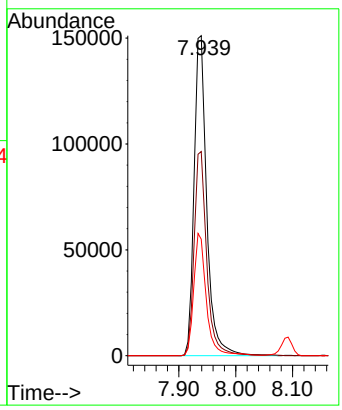




#29
2,4-Dichlorophenol
Concen: 43.145 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:162 Resp: 23557

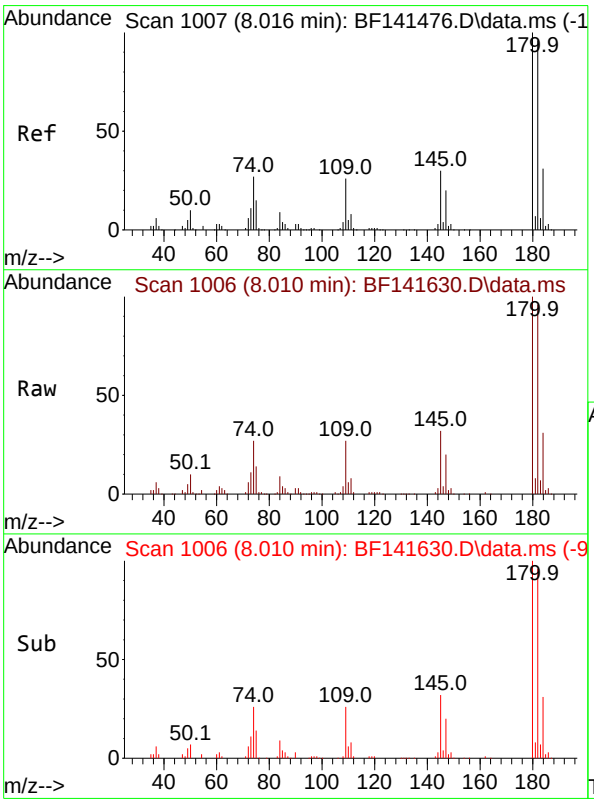
Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.6	84.6
98	36.4	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

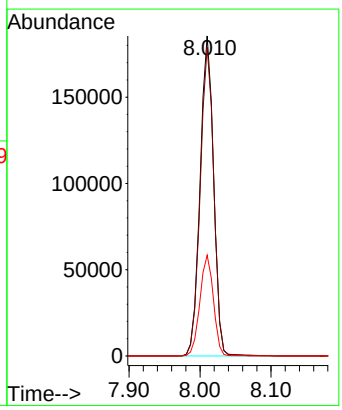
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

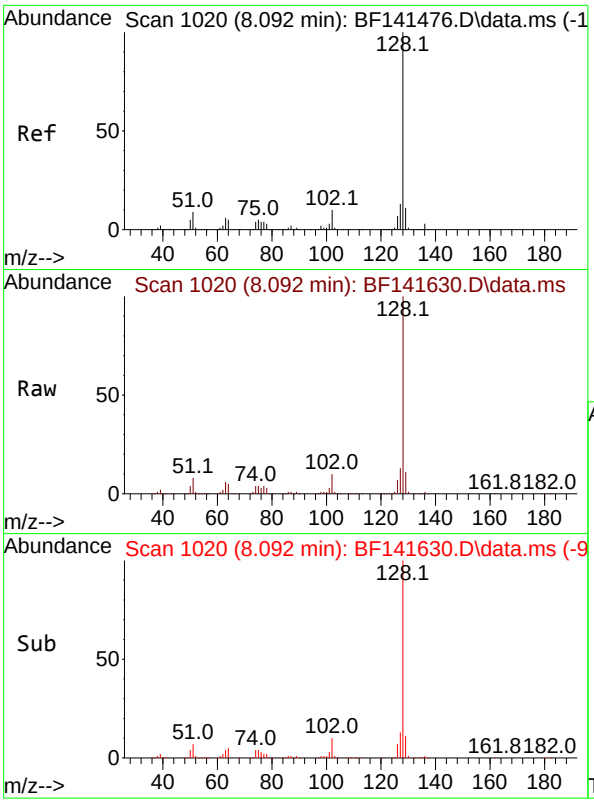


#30
1,2,4-Trichlorobenzene
Concen: 41.379 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:180 Resp: 246032

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.8	115.2
145	31.5	24.2	36.4





#31
Naphthalene
Concen: 41.489 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

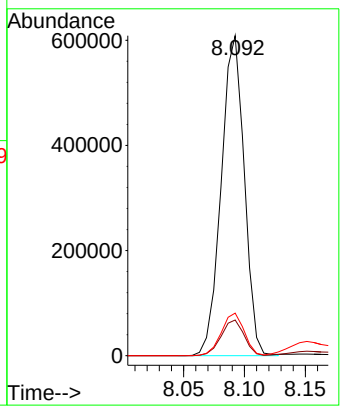
Tgt Ion:128 Resp: 80317

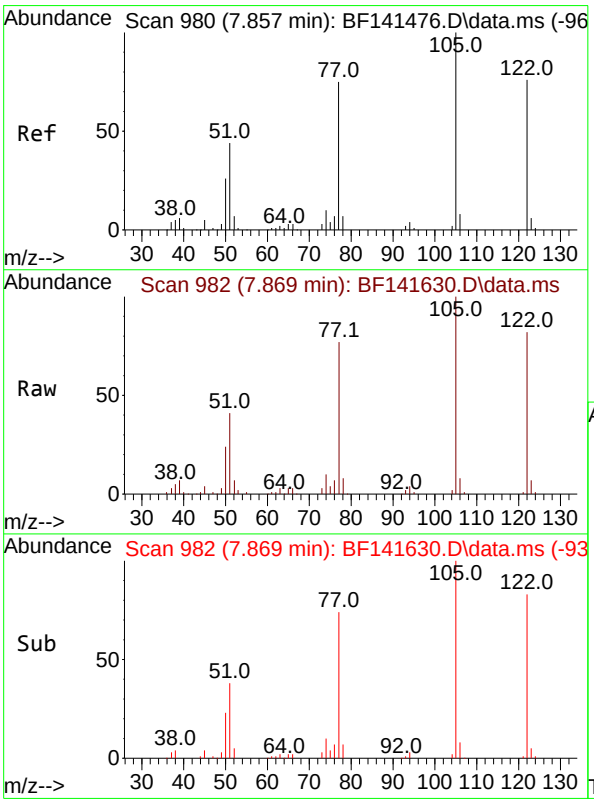
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.3	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

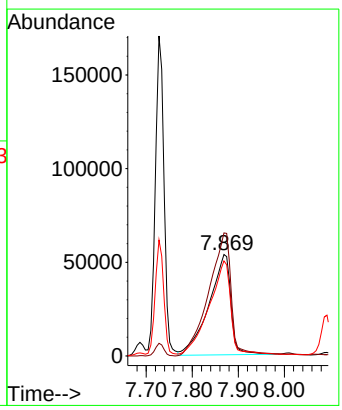


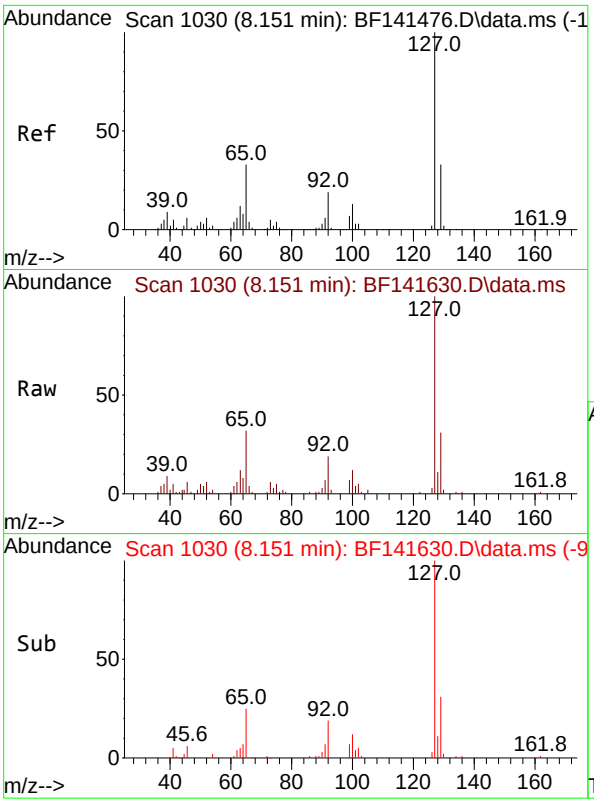


#32
Benzoic acid
Concen: 42.213 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.023 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:122 Resp: 177189

Ion	Ratio	Lower	Upper
122	100		
105	121.3	106.5	146.5
77	93.7	76.3	116.3

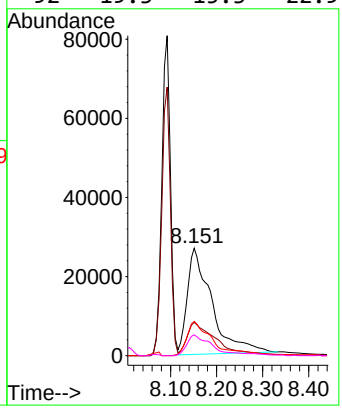




#33
4-Chloroaniline
Concen: 14.631 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:127 Resp: 9889

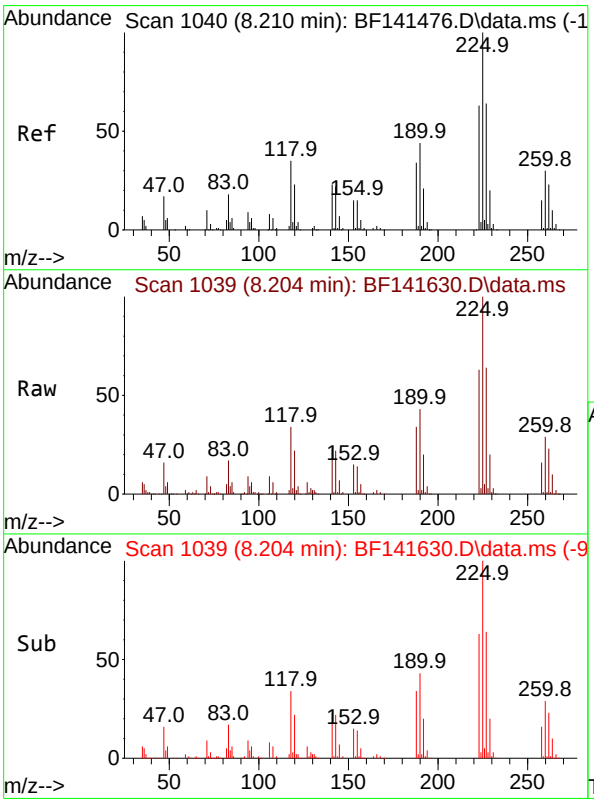
Ion	Ratio	Lower	Upper
127	100		
129	30.9	26.5	39.7
65	31.9	26.4	39.6
92	19.3	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

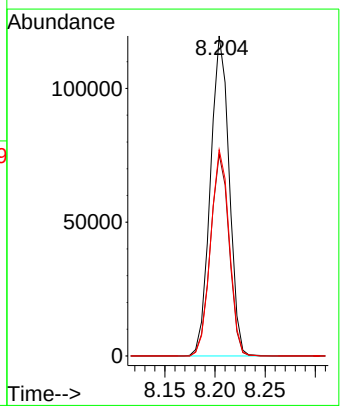
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

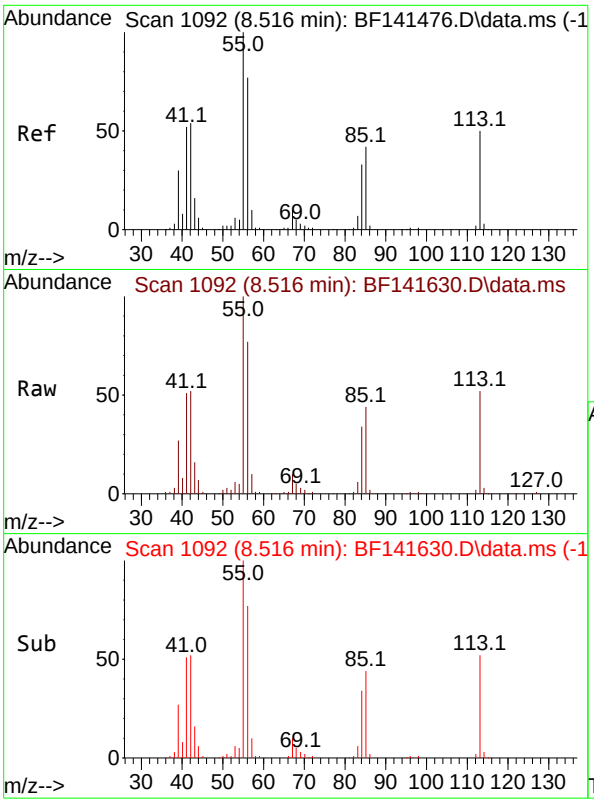


#34
Hexachlorobutadiene
Concen: 43.398 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:225 Resp: 154911

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	64.4	51.0	76.6

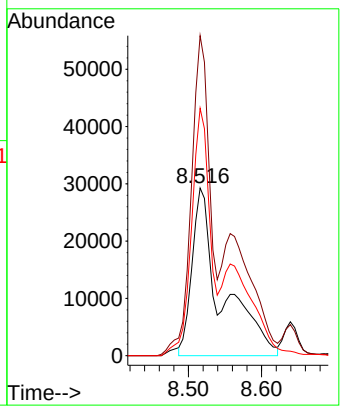




#35
Caprolactam
Concen: 49.509 ng m
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:113 Resp: 8230

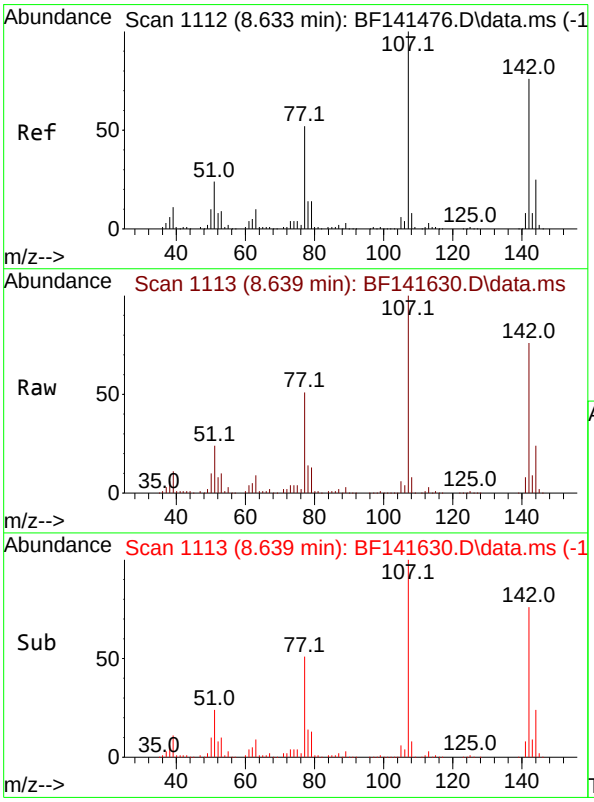
Ion	Ratio	Lower	Upper
113	100		
55	190.9	180.8	220.8
56	147.6	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

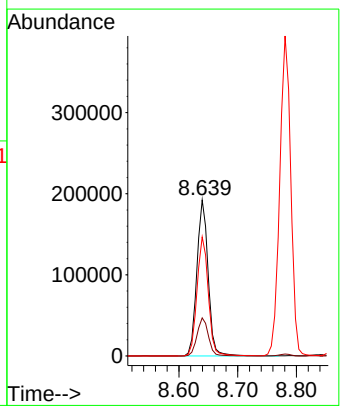
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

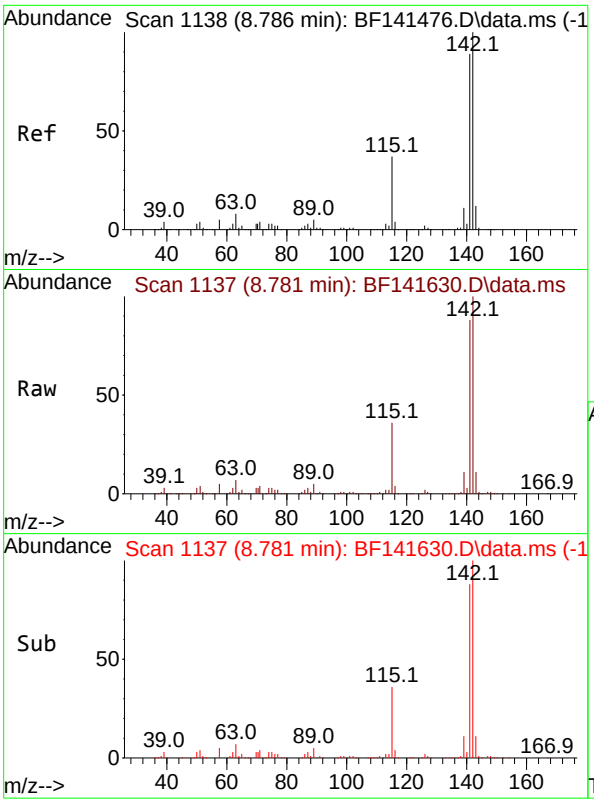


#36
4-Chloro-3-methylphenol
Concen: 42.512 ng
RT: 8.639 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:107 Resp: 257123

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.7	29.5
142	76.3	60.8	91.2

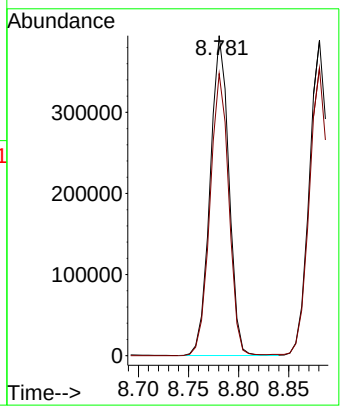




#37
2-Methylnaphthalene
Concen: 40.742 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:142 Resp: 51324

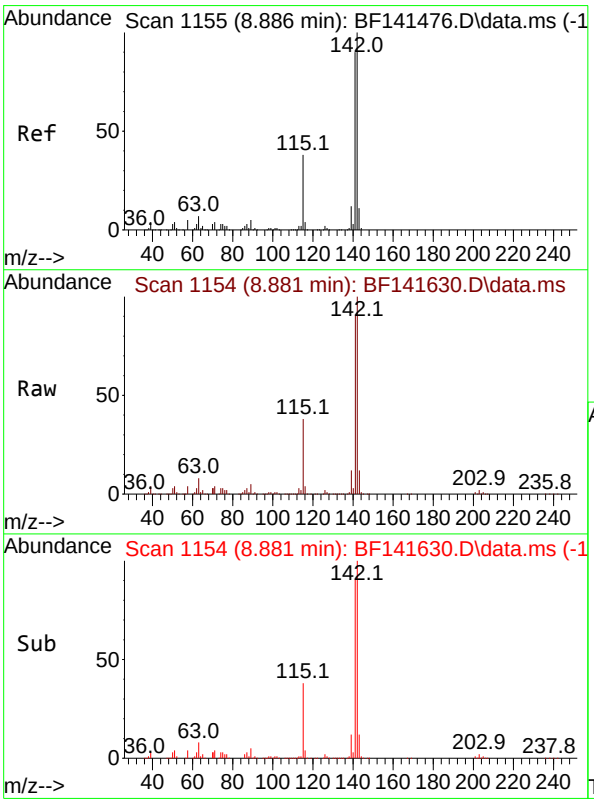
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

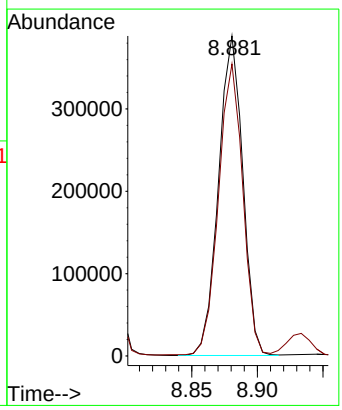
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

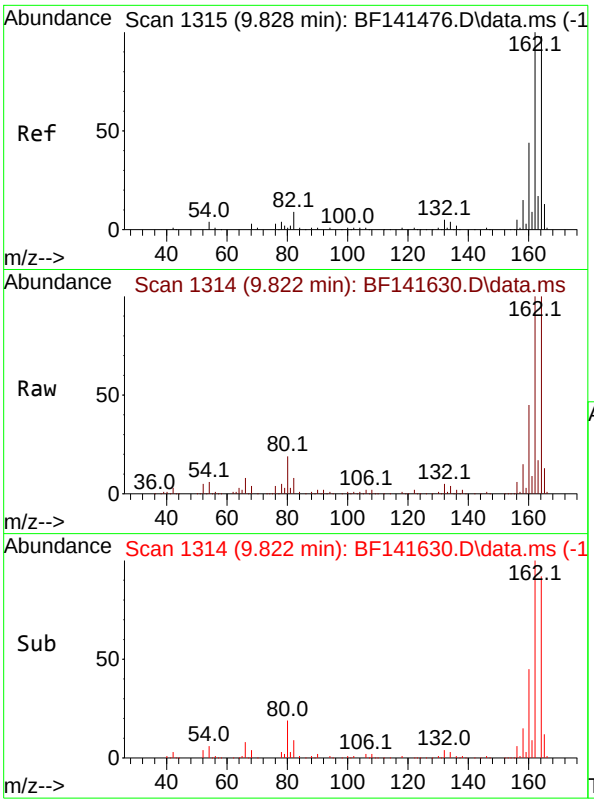


#38
1-Methylnaphthalene
Concen: 40.893 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:142 Resp: 498933

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.1	108.1

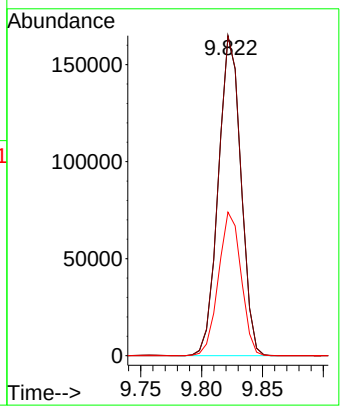




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:164 Resp: 21224

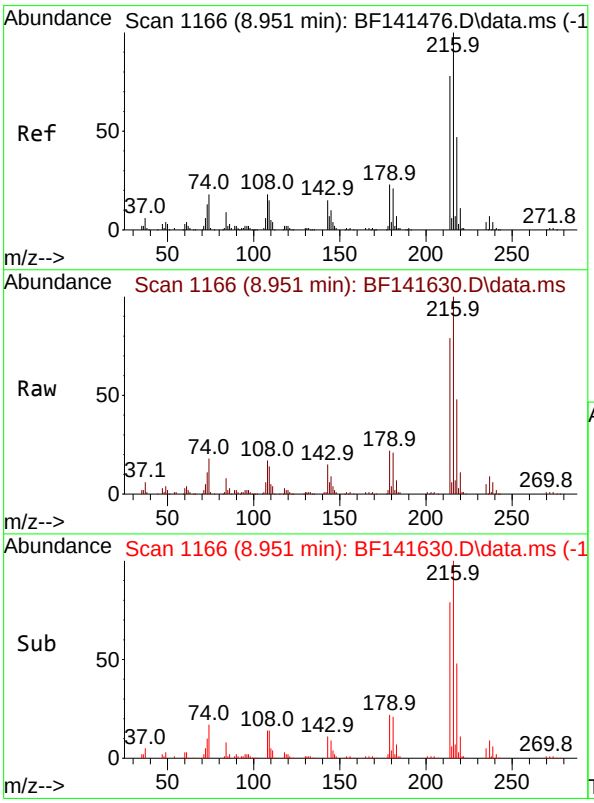
Ion	Ratio	Lower	Upper
164	100		
162	99.8	81.3	121.9
160	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

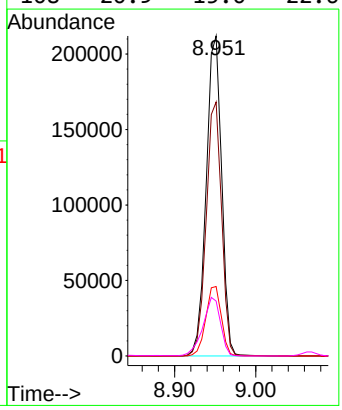
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

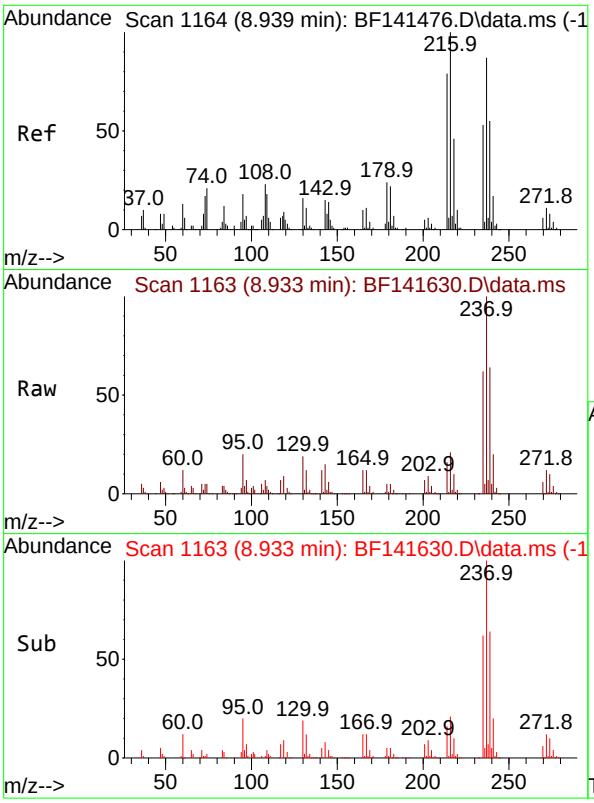


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.430 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:216 Resp: 278963

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	21.9	18.0	27.0
108	20.9	15.0	22.6

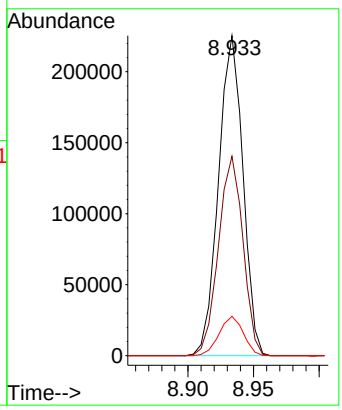




#41
Hexachlorocyclopentadiene
Concen: 142.852 ng
RT: 8.933 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:237 Resp: 29175

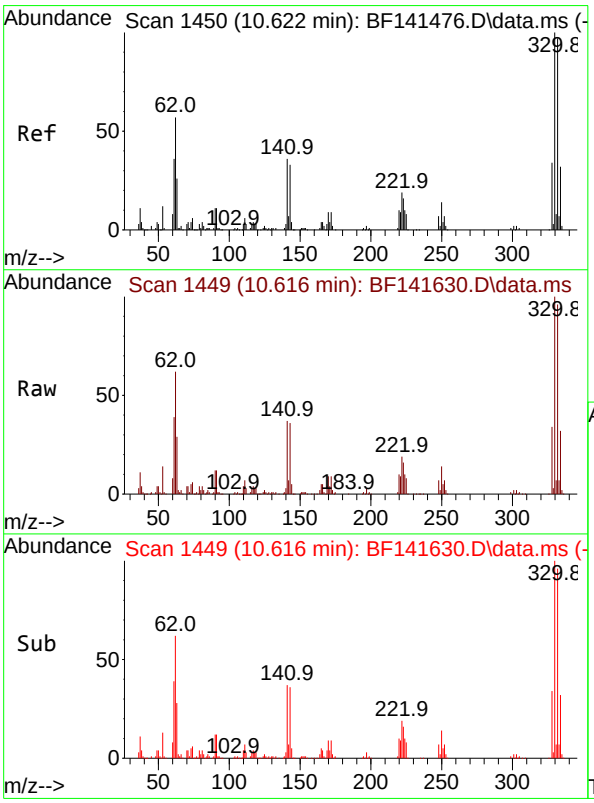
Ion	Ratio	Lower	Upper
237	100		
235	62.3	41.4	81.4
272	12.3	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

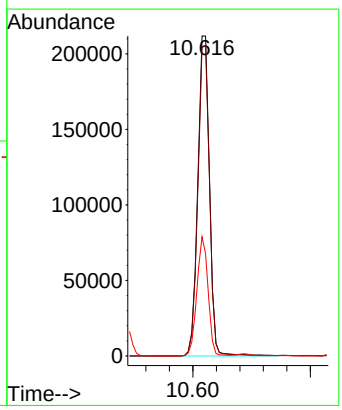
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

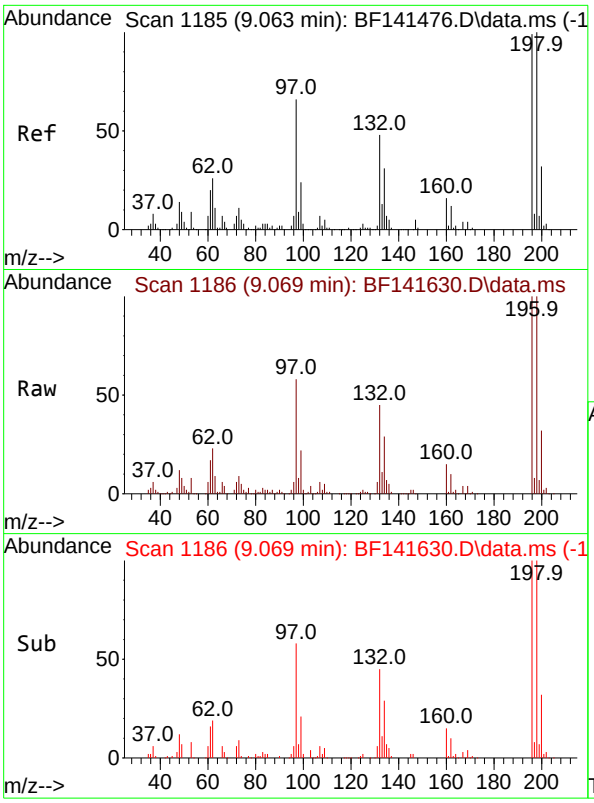


#42
2,4,6-Tribromophenol
Concen: 137.479 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:330 Resp: 293116

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.5	117.7
141	35.5	31.0	46.4

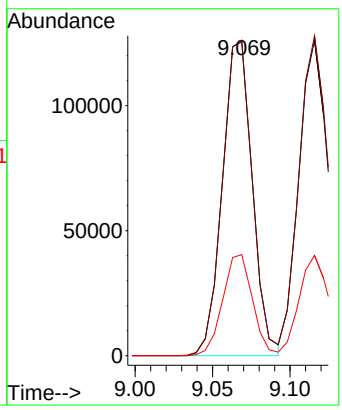




#43
2,4,6-Trichlorophenol
Concen: 42.540 ng
RT: 9.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:196 Resp: 16882

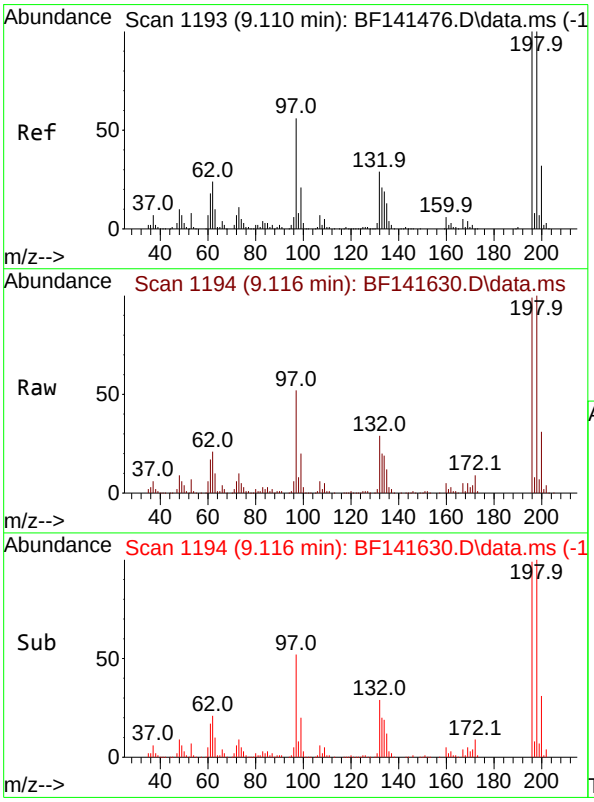
Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.6	121.0
200	32.2	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

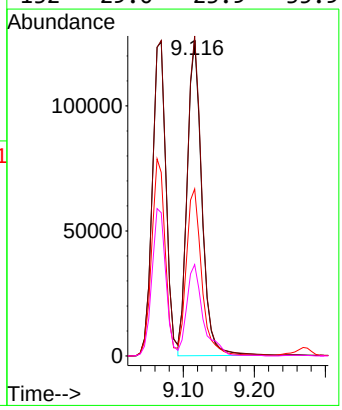
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

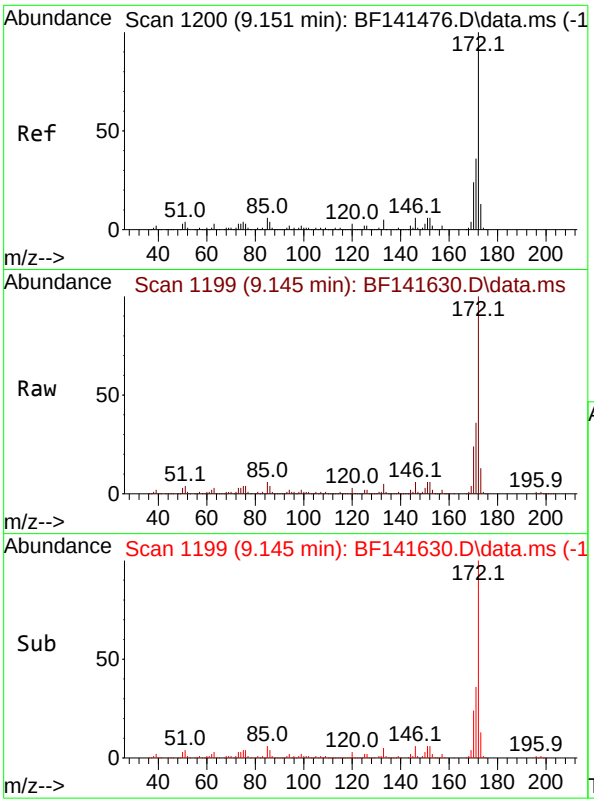


#44
2,4,5-Trichlorophenol
Concen: 41.630 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:196 Resp: 179056

Ion	Ratio	Lower	Upper
196	100		
198	101.5	79.8	119.8
97	53.0	44.8	67.2
132	29.0	23.9	35.9

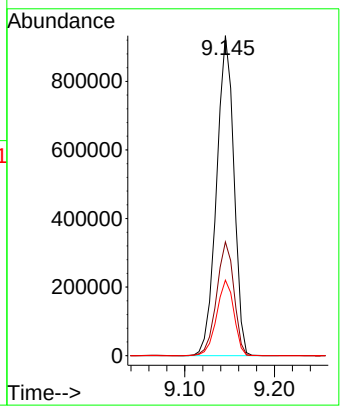




#45
2-Fluorobiphenyl
Concen: 90.996 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:172 Resp: 125358

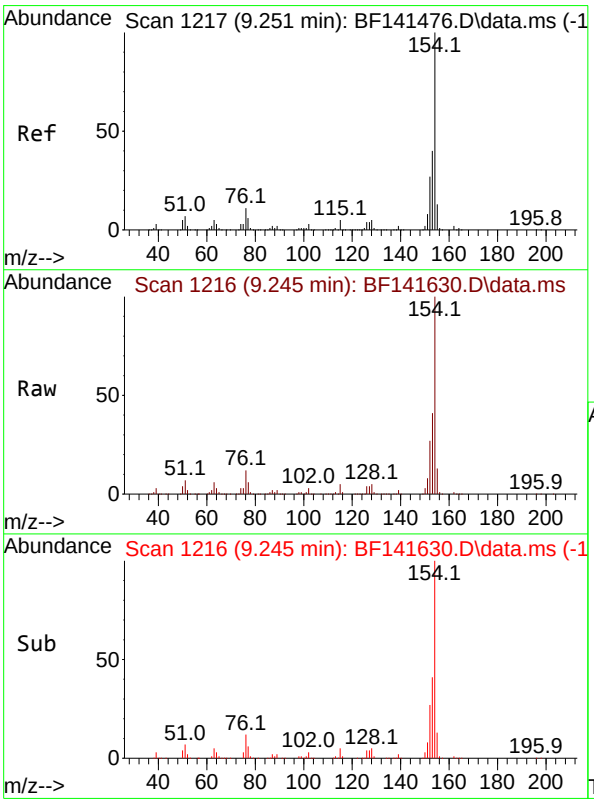
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.6	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

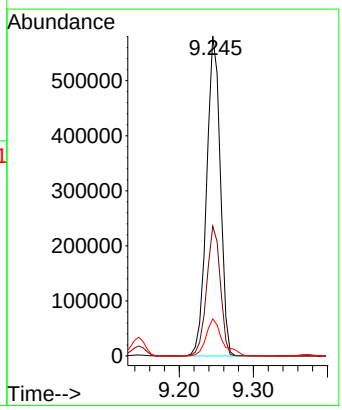
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

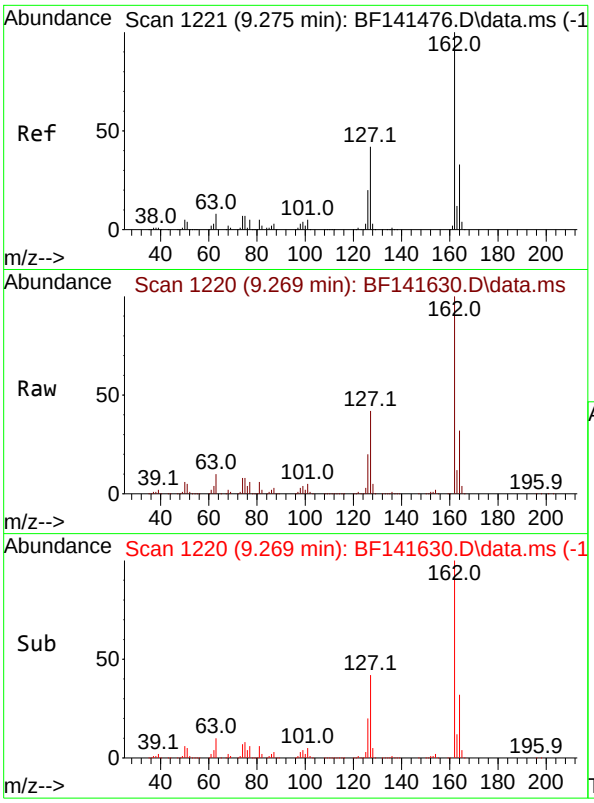


#46
1,1'-Biphenyl
Concen: 45.328 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:154 Resp: 745855

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.4	60.4
76	11.6	0.0	30.8

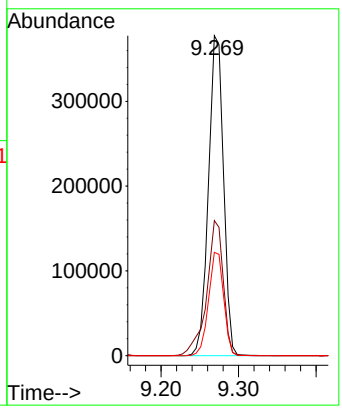




#47
2-Chloronaphthalene
Concen: 41.818 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:162 Resp: 50883

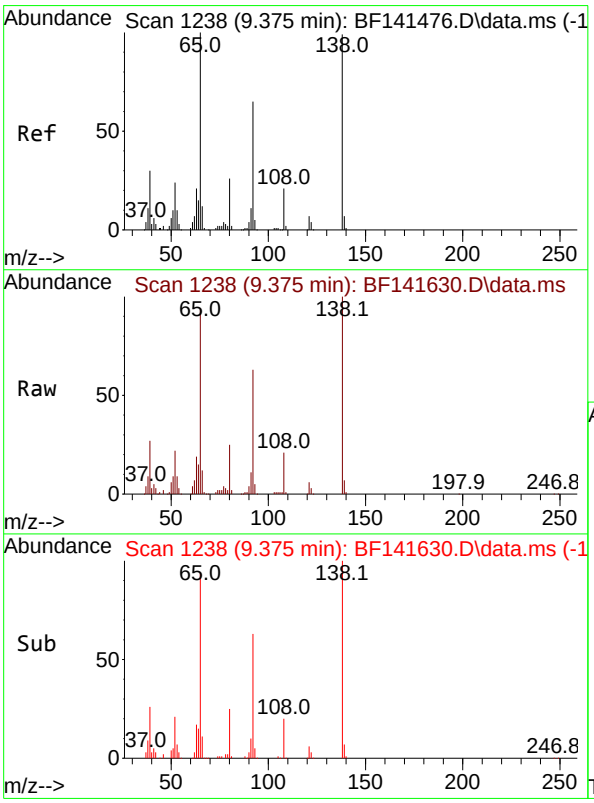
Ion	Ratio	Lower	Upper
162	100		
127	42.2	34.1	51.1
164	32.3	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

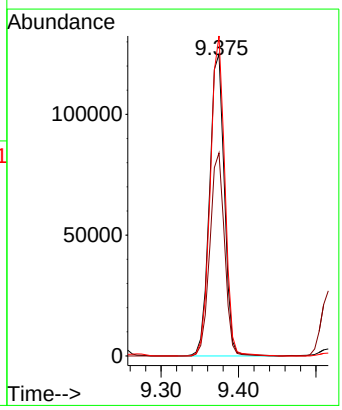
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

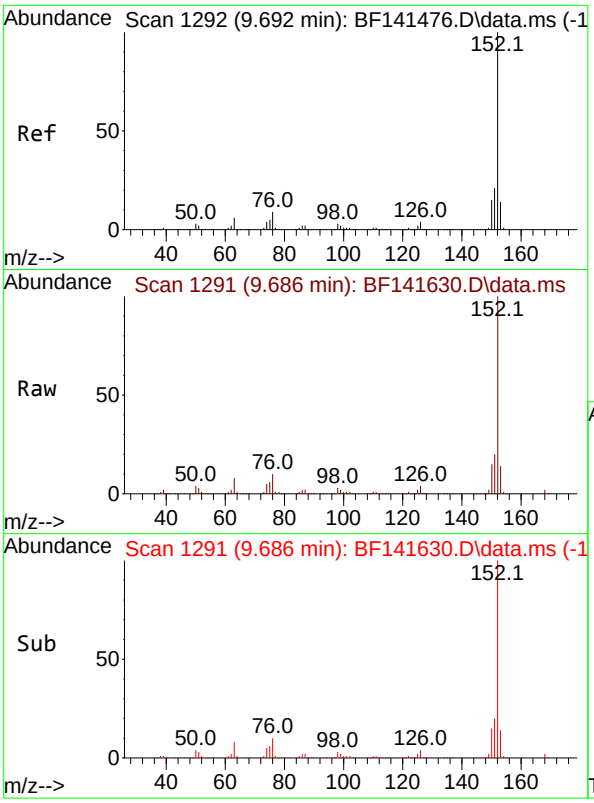


#48
2-Nitroaniline
Concen: 40.689 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 65 Resp: 166155

Ion	Ratio	Lower	Upper
65	100		
92	67.2	52.2	78.2
138	106.0	79.5	119.3

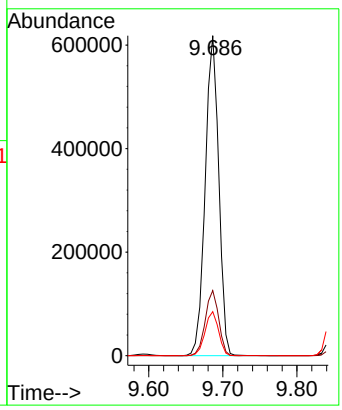




#49
Acenaphthylene
Concen: 43.362 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:152 Resp: 78478

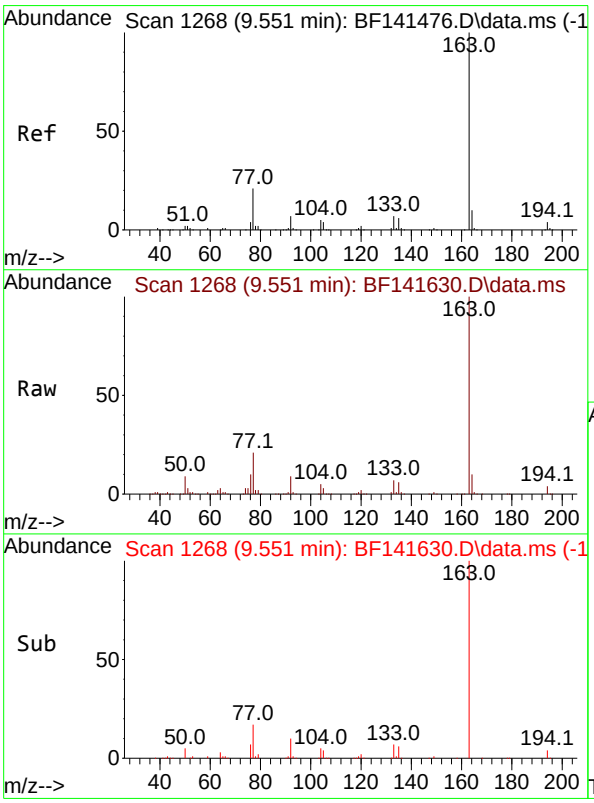
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.8	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

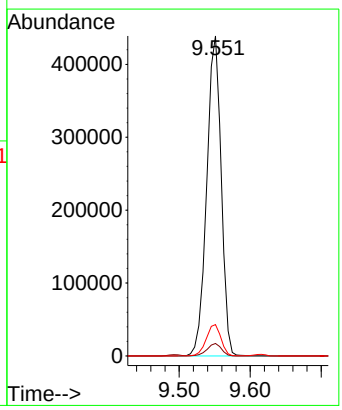
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

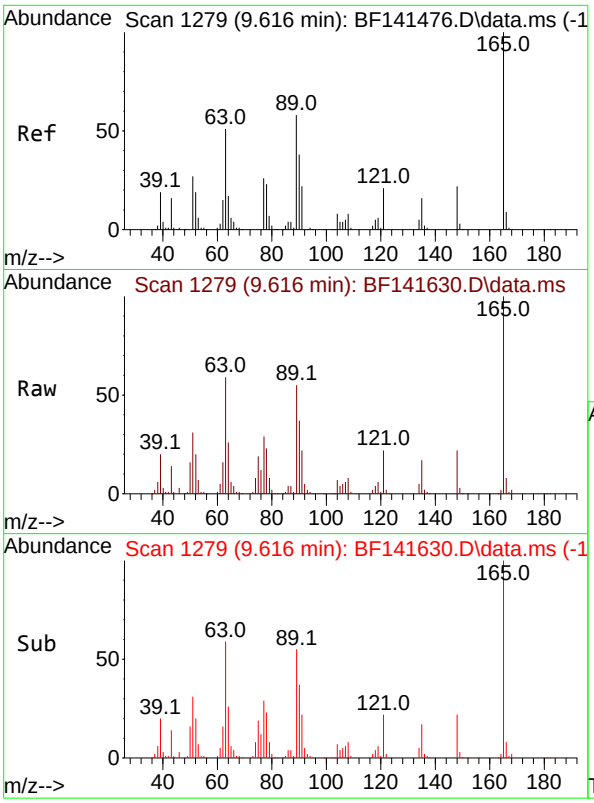


#50
Dimethylphthalate
Concen: 43.167 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:163 Resp: 621981

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.4
164	9.8	7.9	11.9

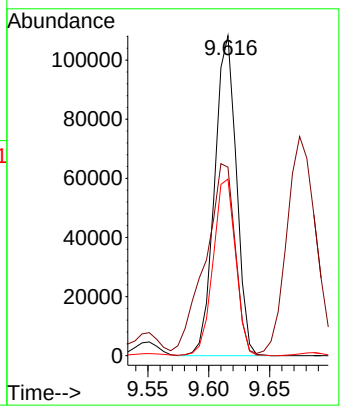




#51
2,6-Dinitrotoluene
Concen: 42.838 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:165 Resp: 13493

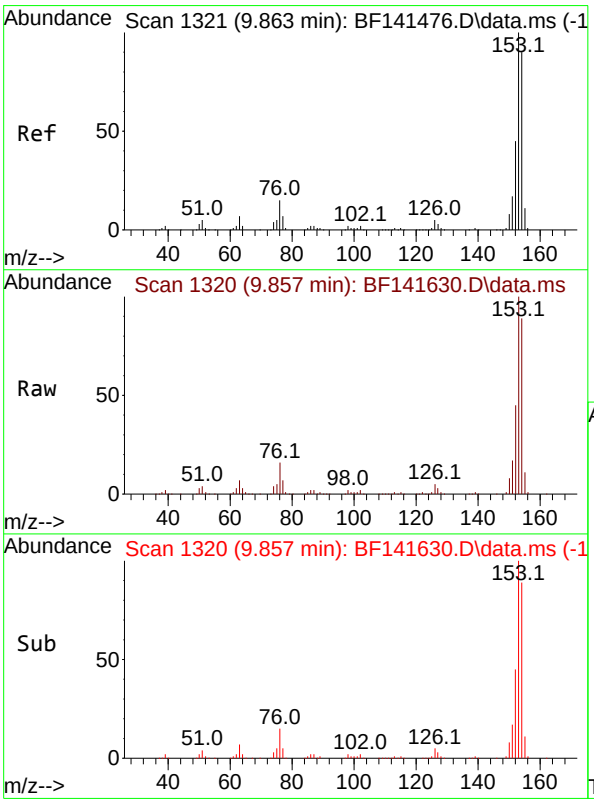
Ion	Ratio	Lower	Upper
165	100		
63	58.9	49.4	74.0
89	55.2	46.5	69.7



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

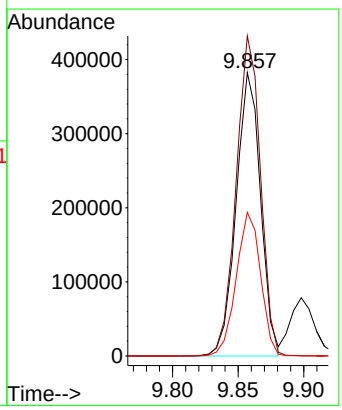
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

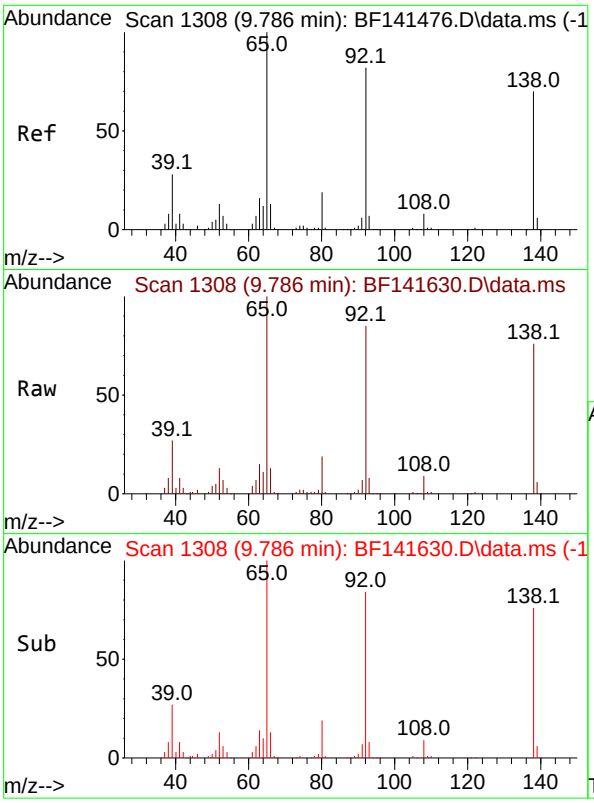


#52
Acenaphthene
Concen: 40.742 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:154 Resp: 495714

Ion	Ratio	Lower	Upper
154	100		
153	112.9	89.2	133.8
152	50.7	39.8	59.8

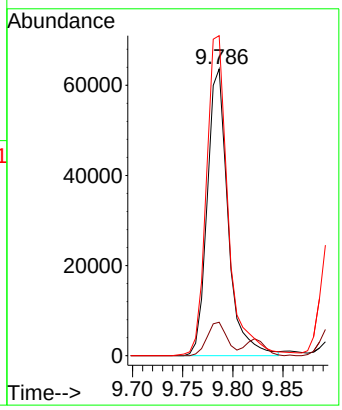




#53
3-Nitroaniline
Concen: 27.093 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:138 Resp: 9185

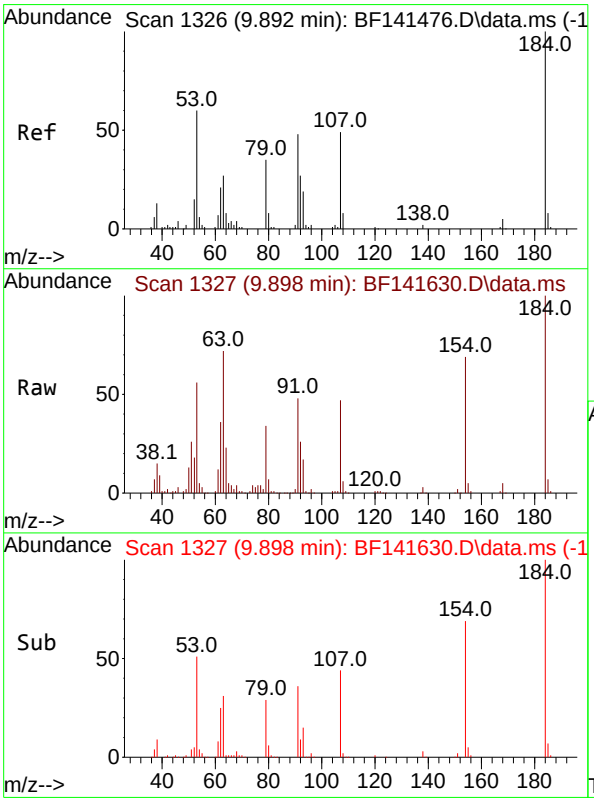
Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.0	13.4
92	111.6	93.7	140.5



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

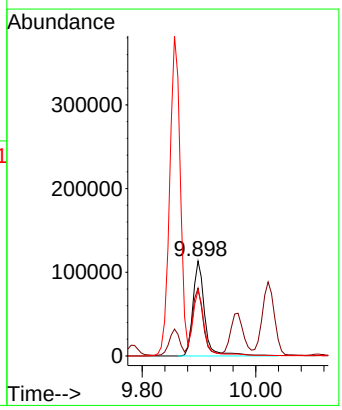
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

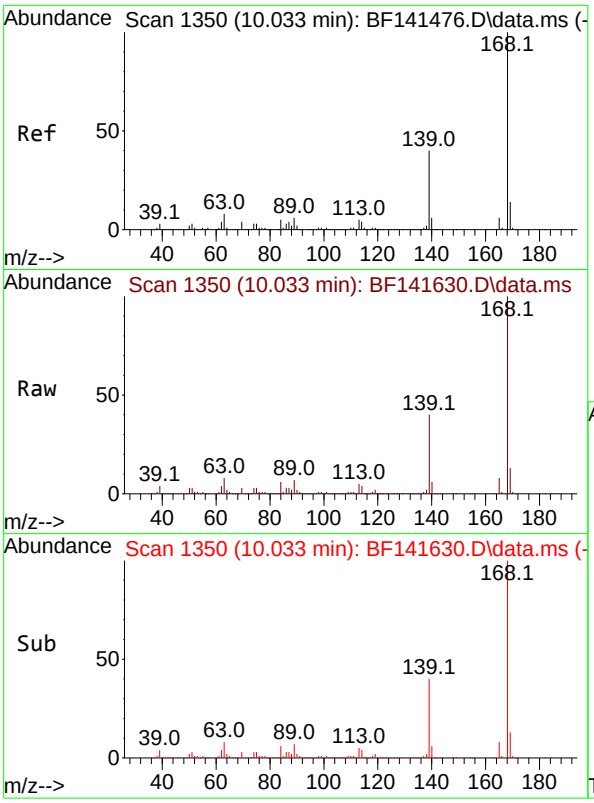


#54
2,4-Dinitrophenol
Concen: 87.647 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:184 Resp: 164078

Ion	Ratio	Lower	Upper
184	100		
63	71.6	61.0	91.6
154	69.3	59.9	89.9

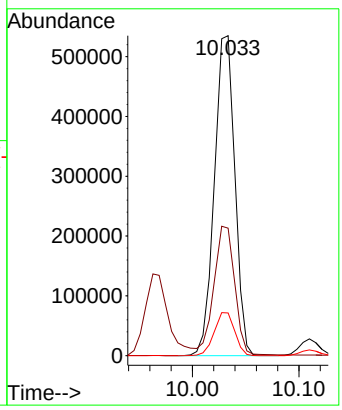




#55
Dibenzofuran
Concen: 39.970 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:168 Resp: 71383

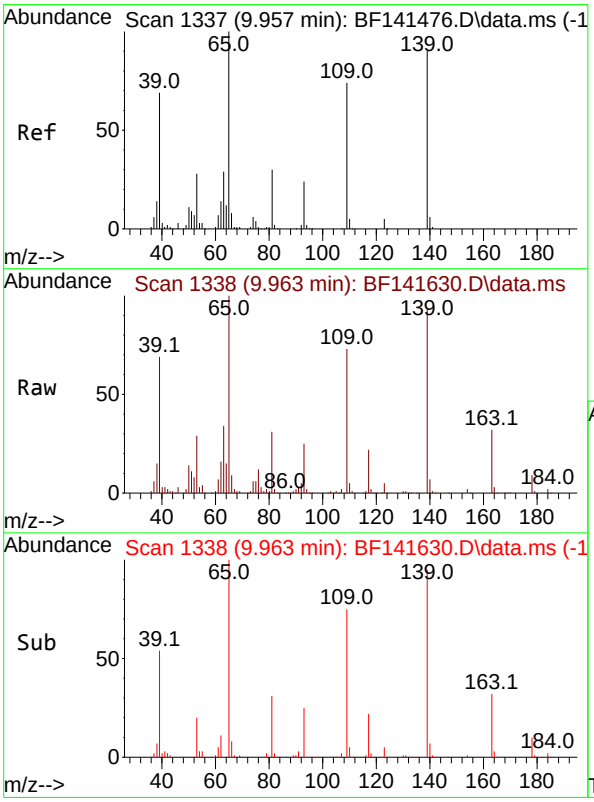
Ion	Ratio	Lower	Upper
168	100		
139	39.9	32.7	49.1
169	13.4	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

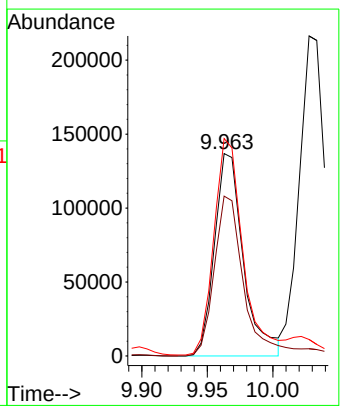
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

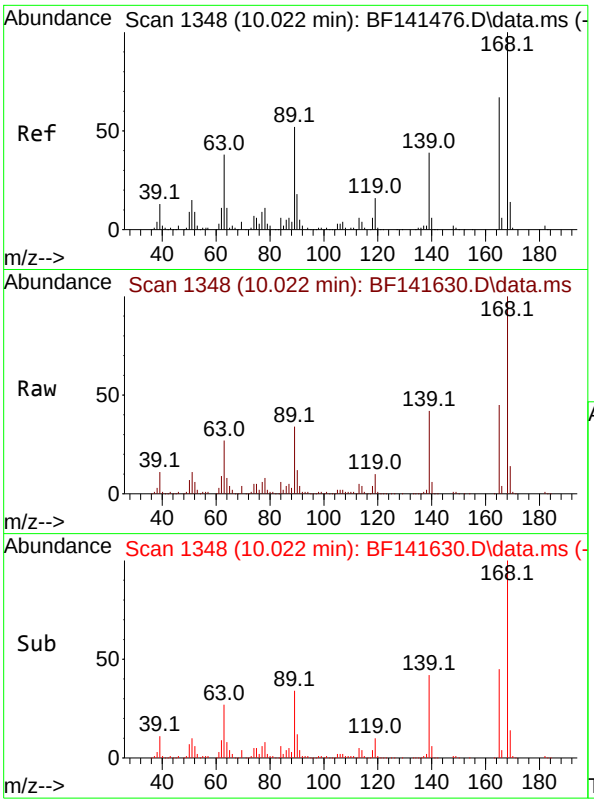


#56
4-Nitrophenol
Concen: 83.475 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:139 Resp: 210075

Ion	Ratio	Lower	Upper
139	100		
109	79.0	62.0	102.0
65	107.5	91.2	131.2

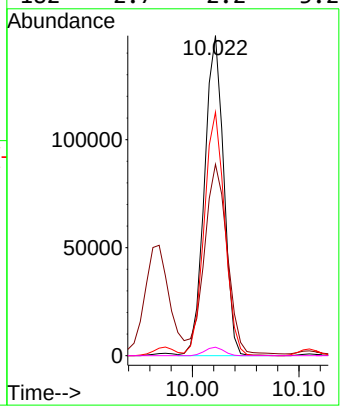




#57
2,4-Dinitrotoluene
Concen: 44.364 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:165 Resp: 18602

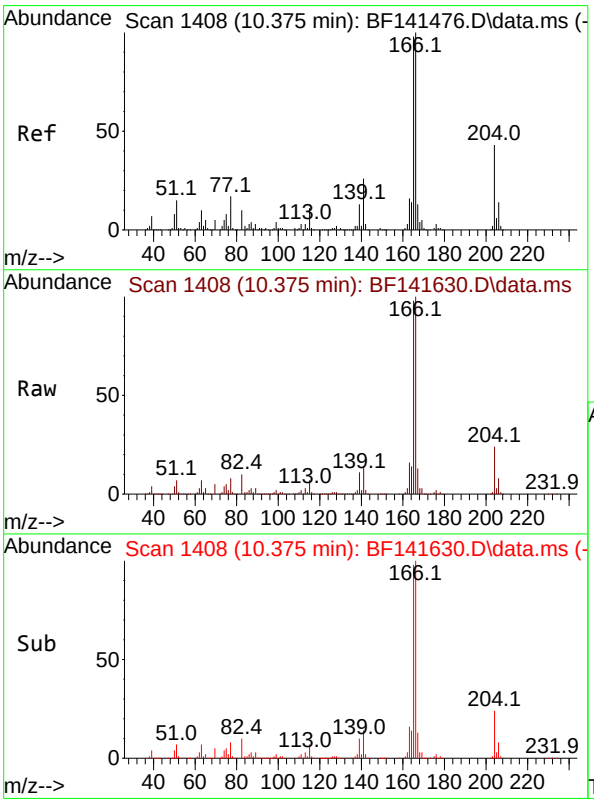
Ion	Ratio	Lower	Upper
165	100		
63	59.8	46.4	69.6
89	76.1	61.8	92.6
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

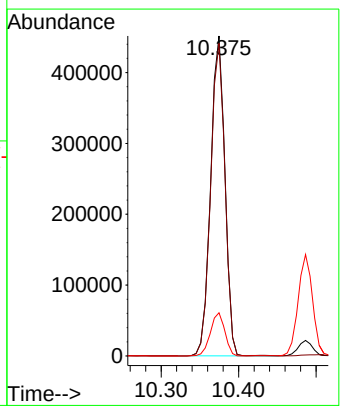
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

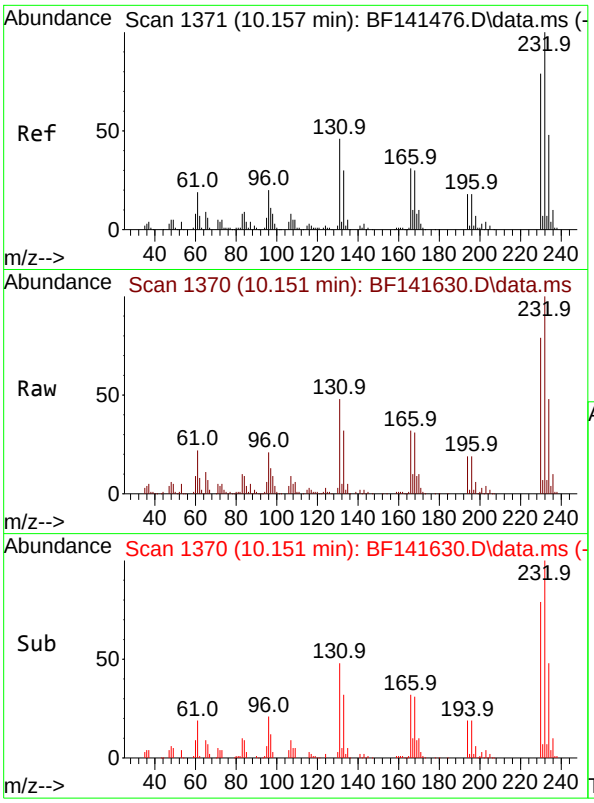


#58
Fluorene
Concen: 41.824 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:166 Resp: 577543

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.2
167	13.5	10.7	16.1

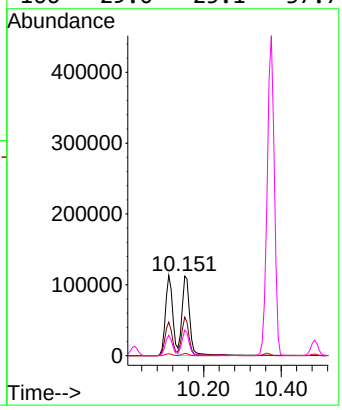




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.470 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:232 Resp: 15726

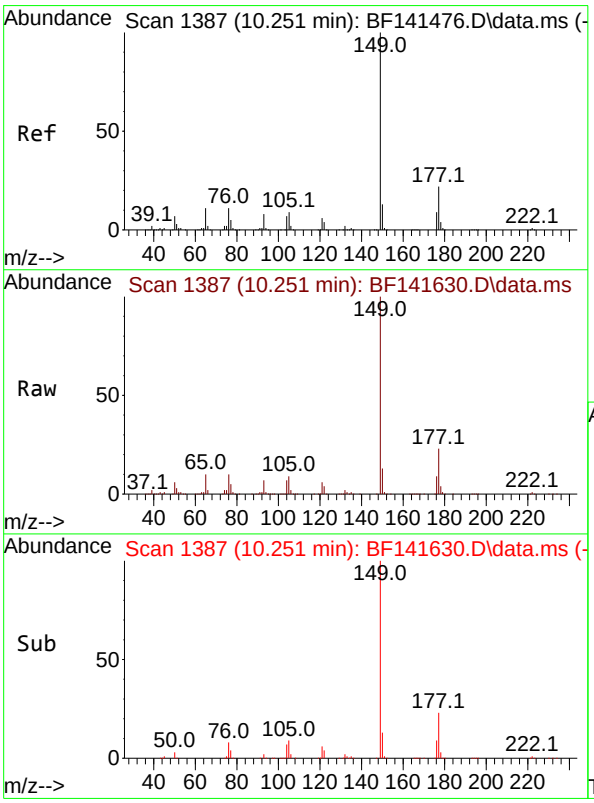
Ion	Ratio	Lower	Upper
232	100		
131	45.2	39.2	58.8
130	2.4	2.1	3.1
166	29.0	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

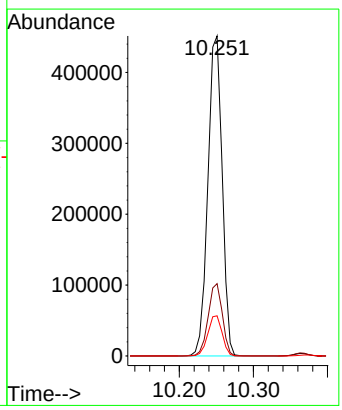
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

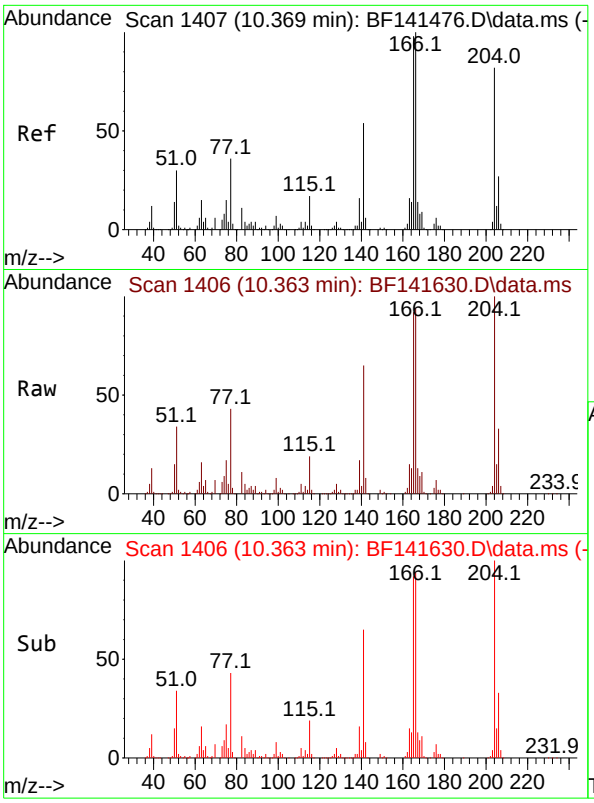


#60
Diethylphthalate
Concen: 42.608 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 604022

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.6
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 42.229 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

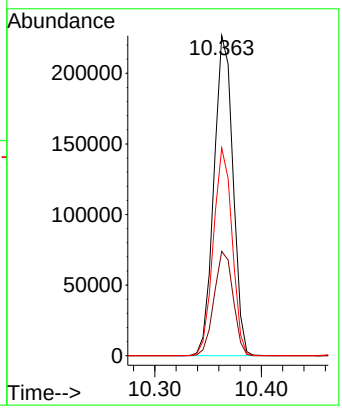
Tgt Ion:204 Resp: 28053

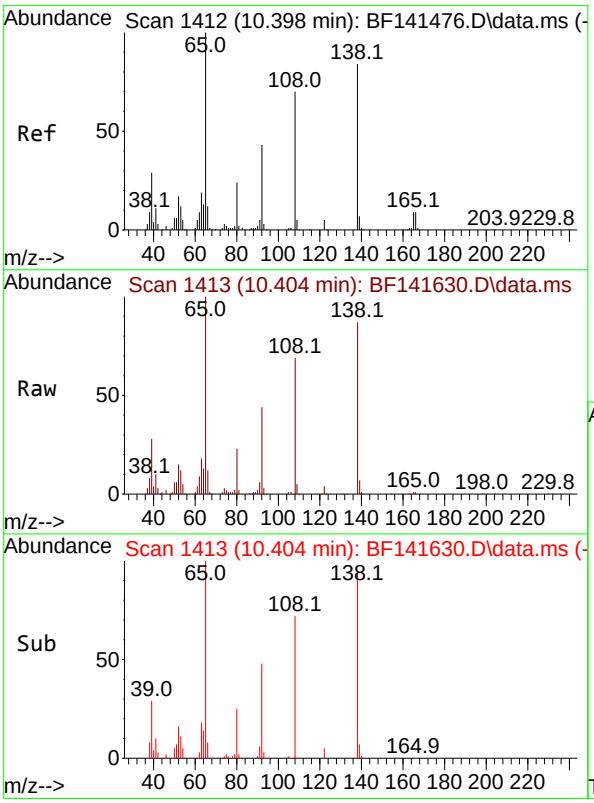
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.6	40.0
141	64.9	51.9	77.9

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

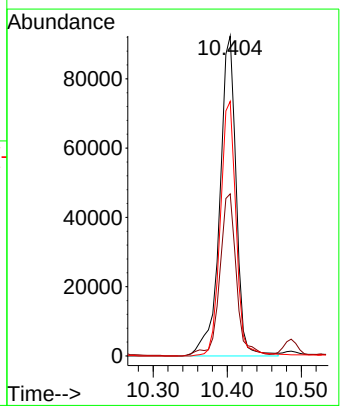


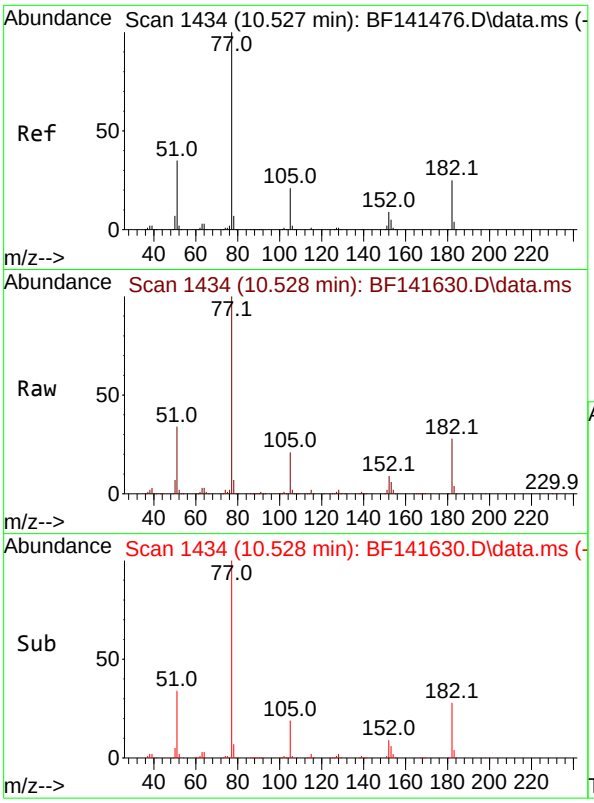


#62
4-Nitroaniline
Concen: 41.281 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:138 Resp: 142107

Ion	Ratio	Lower	Upper
138	100		
92	50.7	31.3	71.3
108	79.5	63.7	103.7

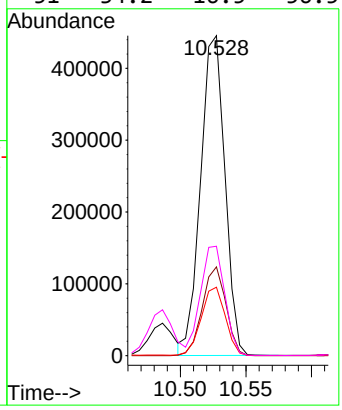




#63
Azobenzene
Concen: 40.824 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 77 Resp: 57534

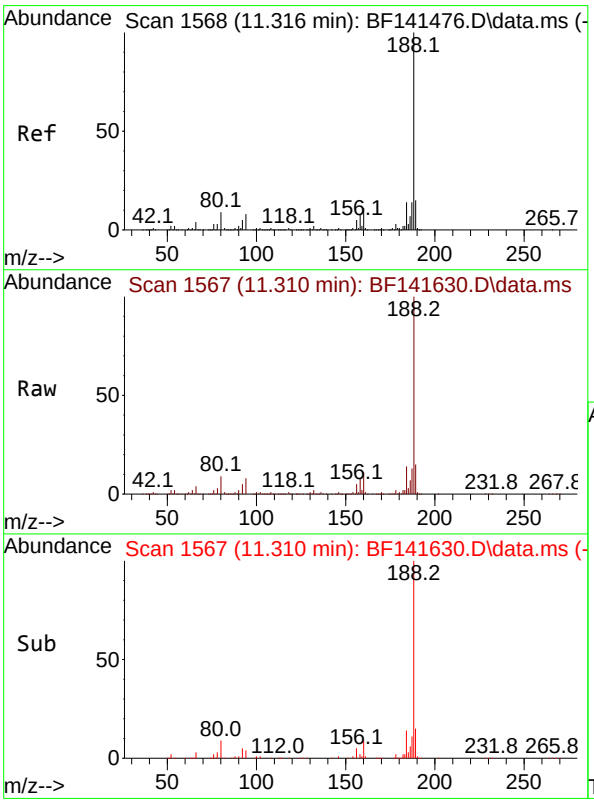
Ion	Ratio	Lower	Upper
77	100		
182	27.7	4.7	44.7
105	21.4	0.4	40.4
51	34.2	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

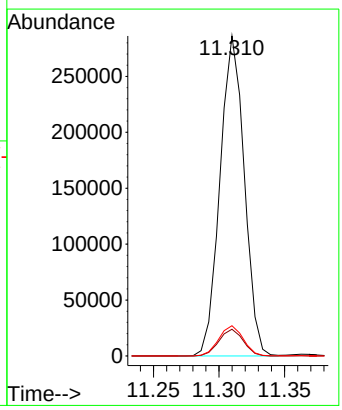
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

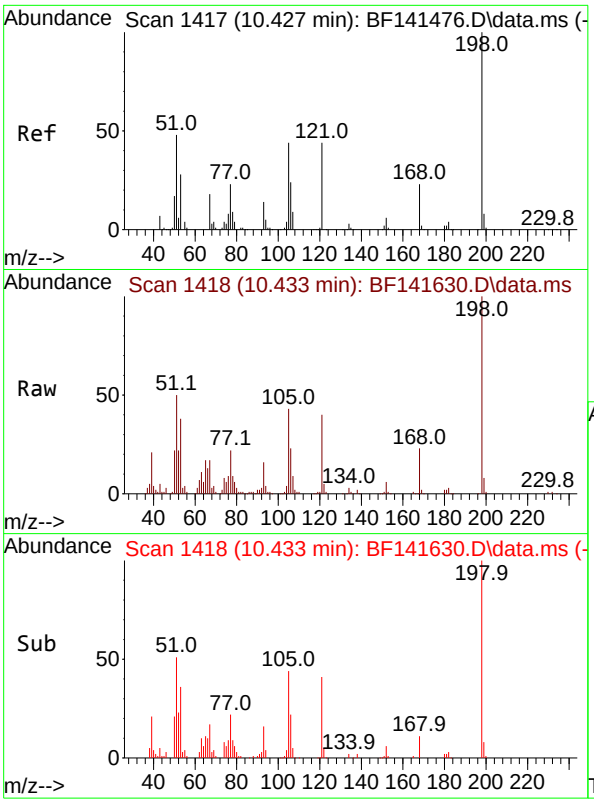


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:188 Resp: 368683

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.5	7.3	10.9

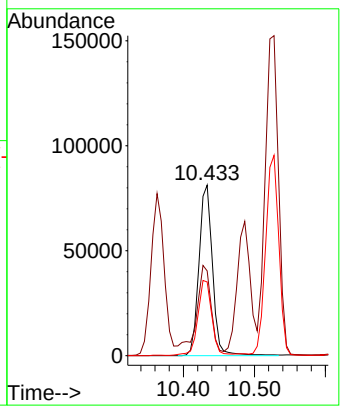




#65
4,6-Dinitro-2-methylphenol
Concen: 42.200 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:198 Resp: 10807

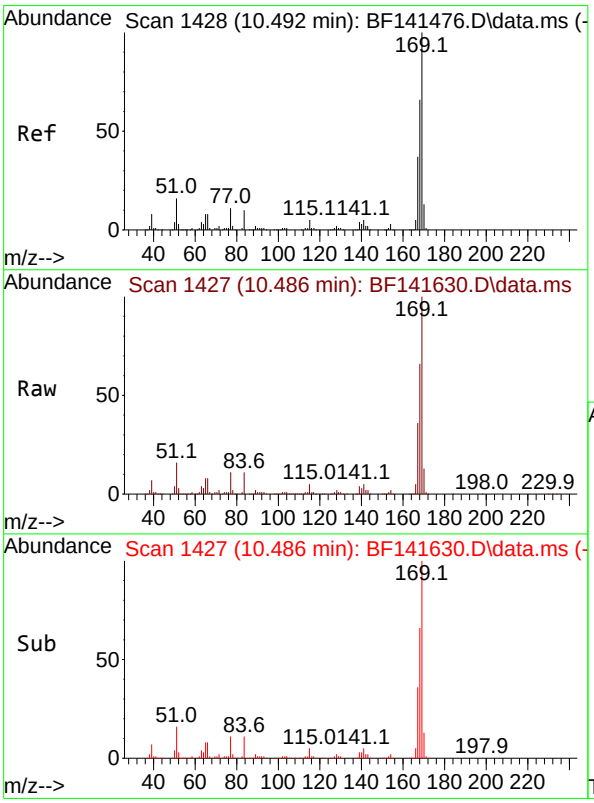
Ion	Ratio	Lower	Upper
198	100		
51	49.7	37.4	77.4
105	43.3	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

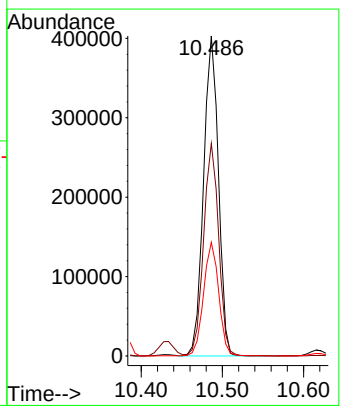
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

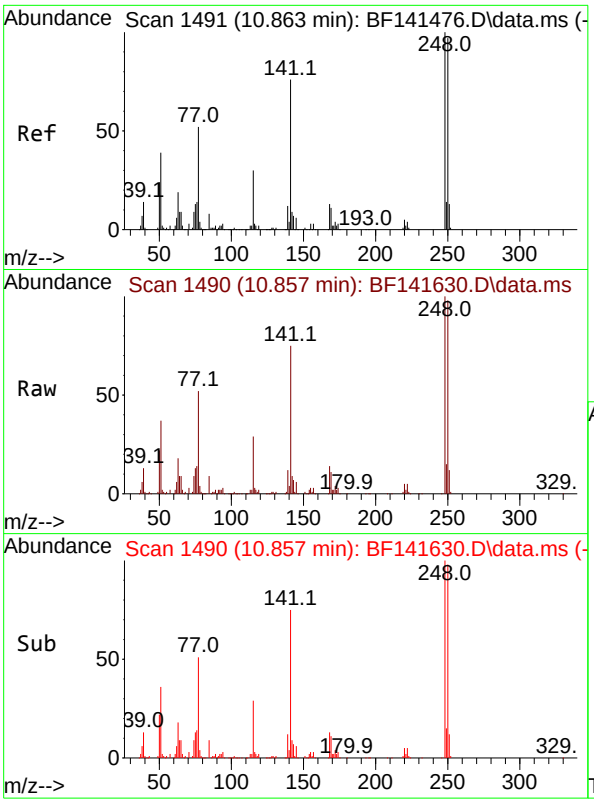


#66
n-Nitrosodiphenylamine
Concen: 43.316 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:169 Resp: 511215

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.3	79.9
167	35.5	29.4	44.2





#67
4-Bromophenyl-phenylether
Concen: 43.211 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

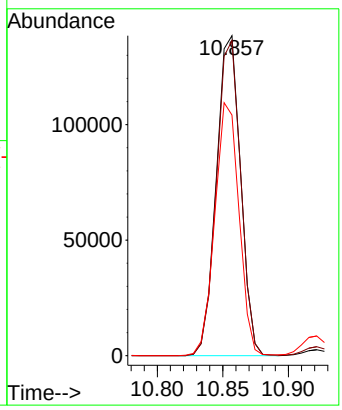
Tgt Ion:248 Resp: 17805

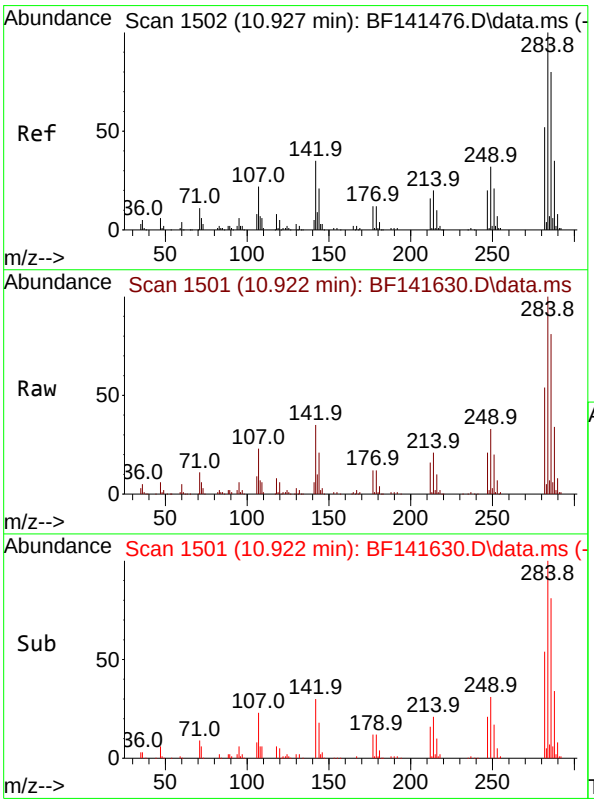
Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.8	116.6
141	75.2	60.6	90.8

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

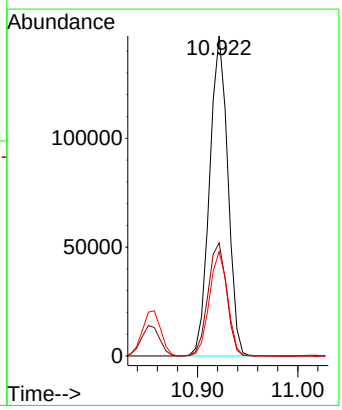


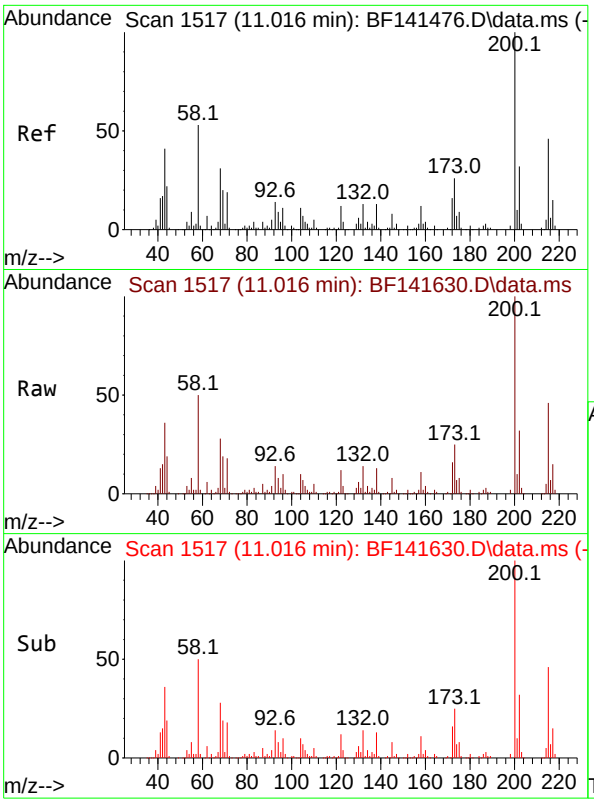


#68
Hexachlorobenzene
Concen: 43.733 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:284 Resp: 185558

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.0	42.0
249	32.6	25.8	38.8

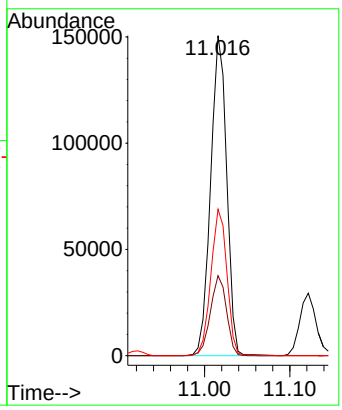




#69
Atrazine
Concen: 55.640 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:200 Resp: 19699

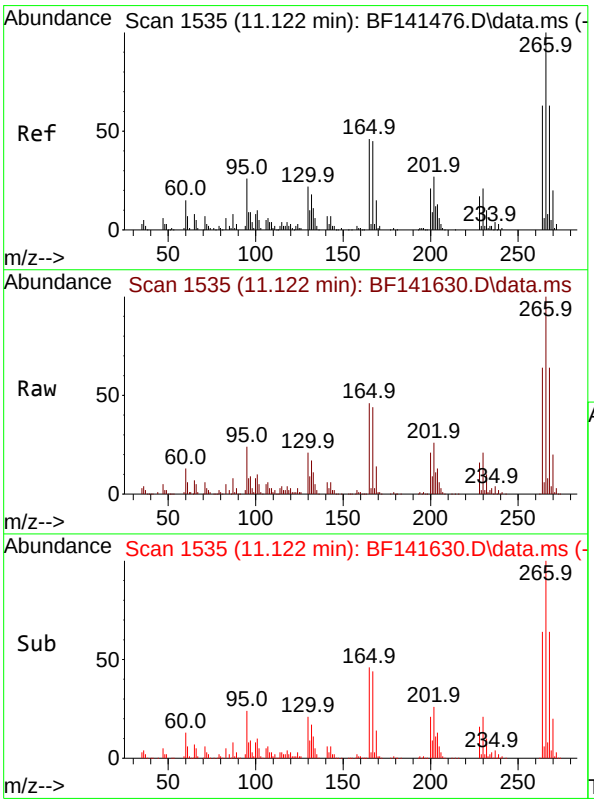
Ion	Ratio	Lower	Upper
200	100		
173	25.0	5.9	45.9
215	45.7	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

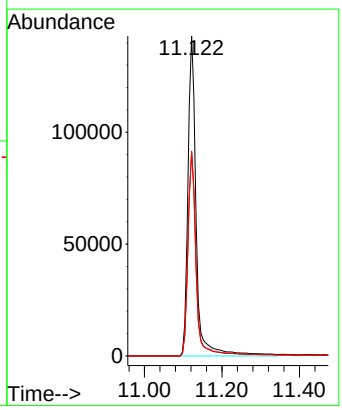
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

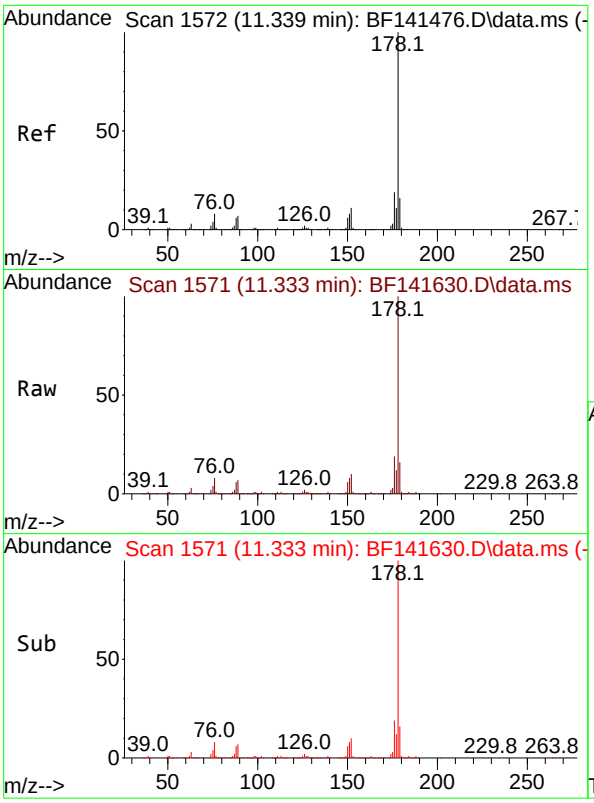


#70
Pentachlorophenol
Concen: 78.233 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:266 Resp: 212252

Ion	Ratio	Lower	Upper
266	100		
268	63.9	50.1	75.1
264	63.8	50.1	75.1

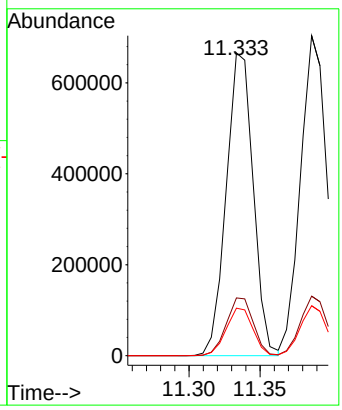




#71
Phenanthrene
Concen: 43.385 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:178 Resp: 88046

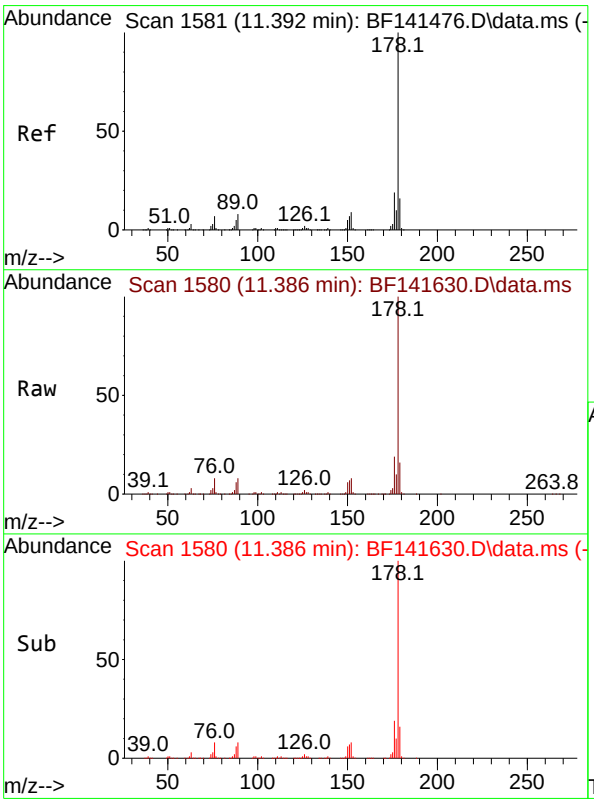
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.7	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

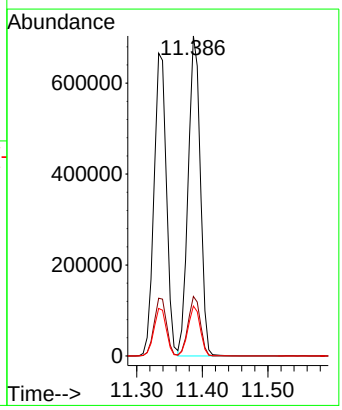
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

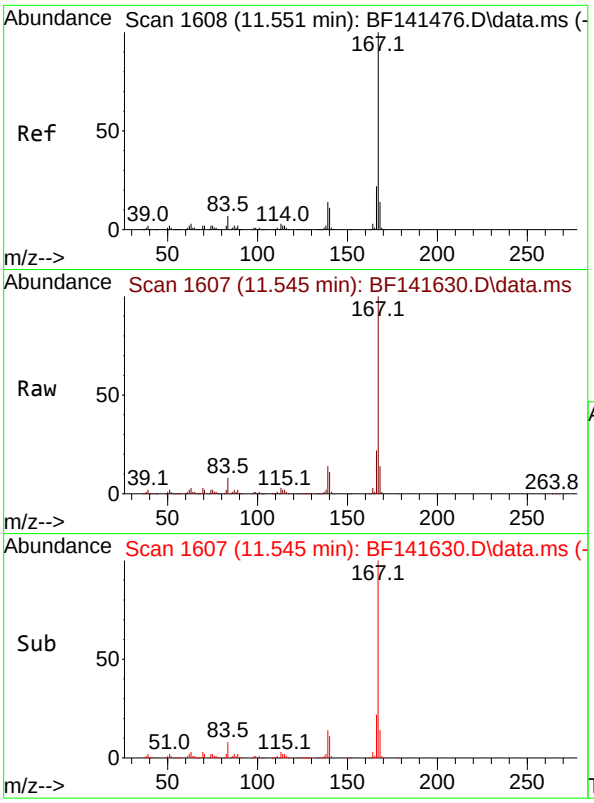


#72
Anthracene
Concen: 44.317 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:178 Resp: 904106

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.6	12.4	18.6

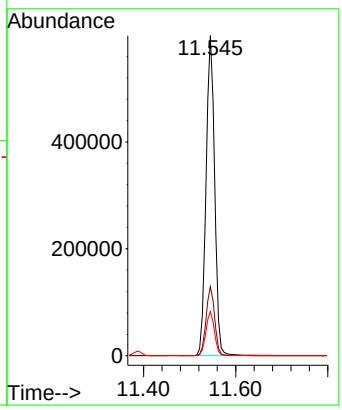




#73
Carbazole
Concen: 42.707 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:167 Resp: 78395

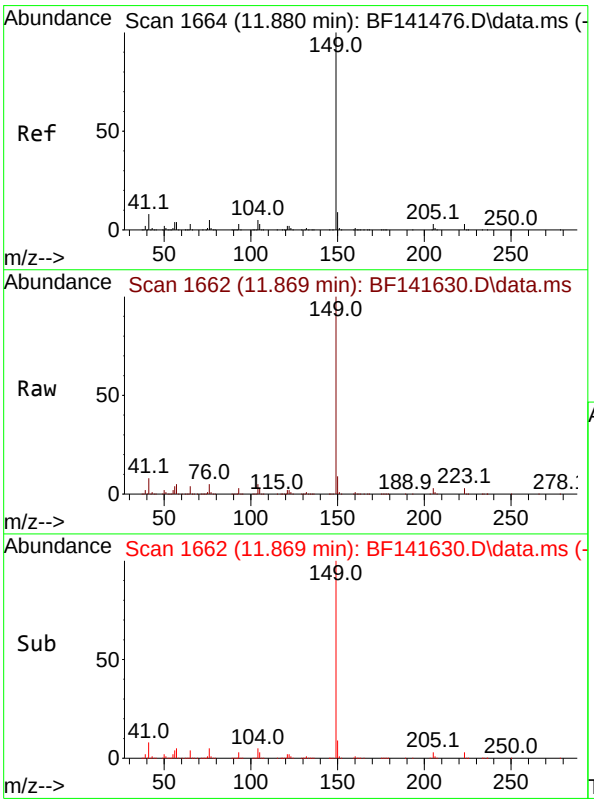
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.8	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

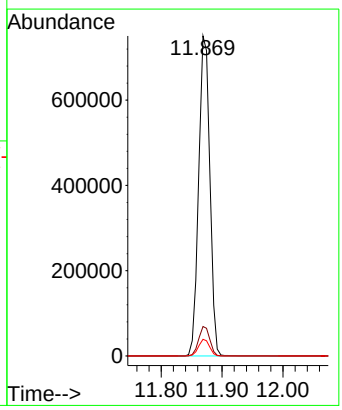
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

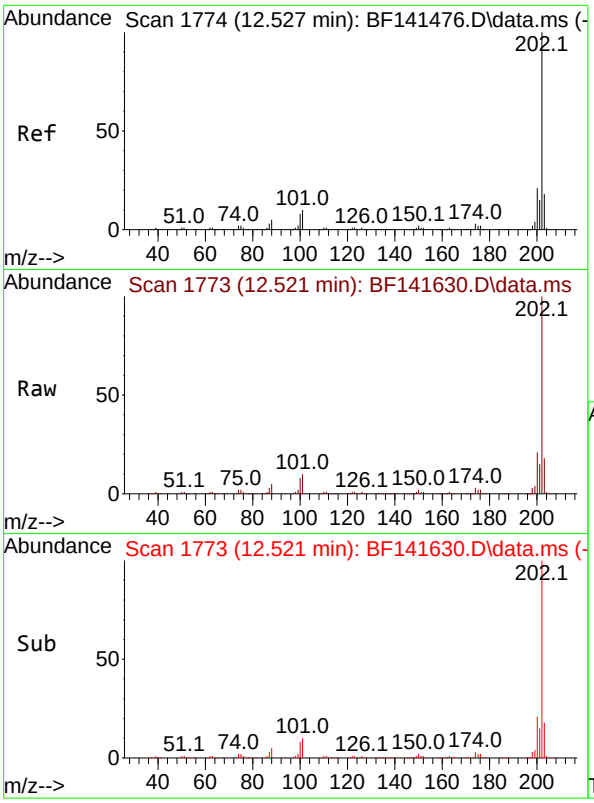


#74
Di-n-butylphthalate
Concen: 45.029 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 954420

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2

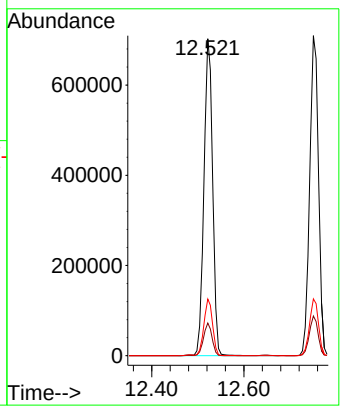




#75
Fluoranthene
Concen: 43.132 ng
RT: 12.521 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:202 Resp: 92802

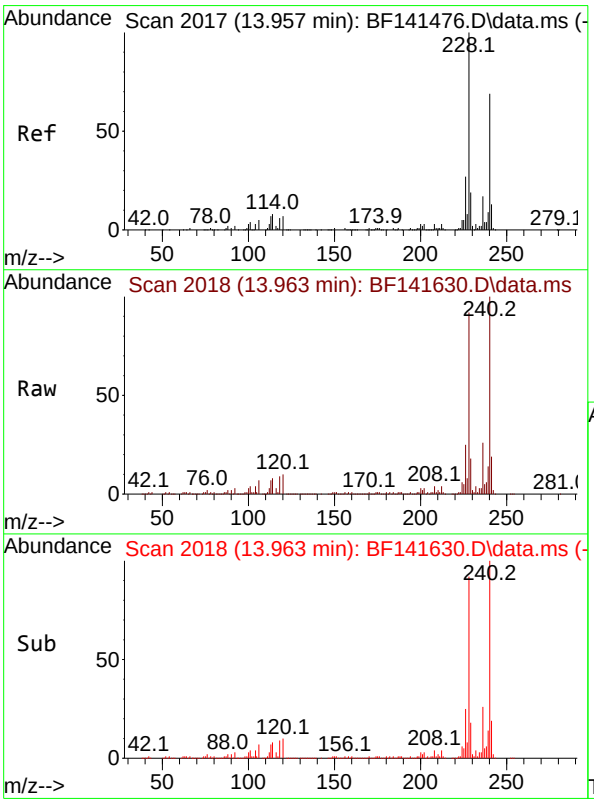
Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.2
203	17.9	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

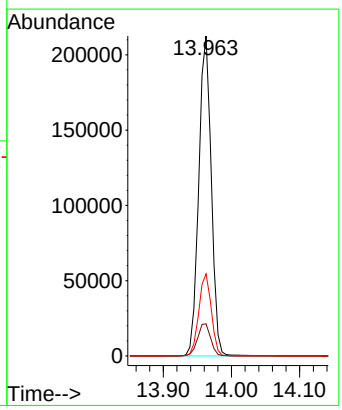
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

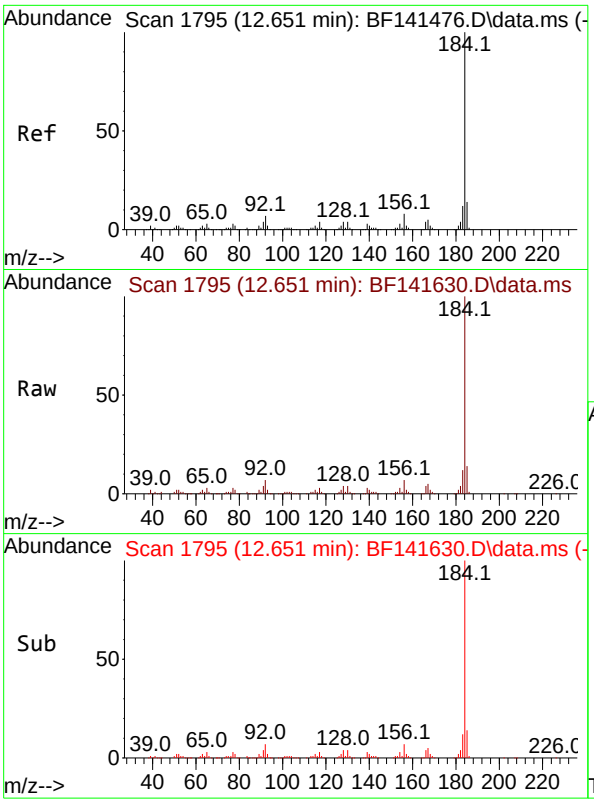


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:240 Resp: 270184

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	25.6	19.8	29.8

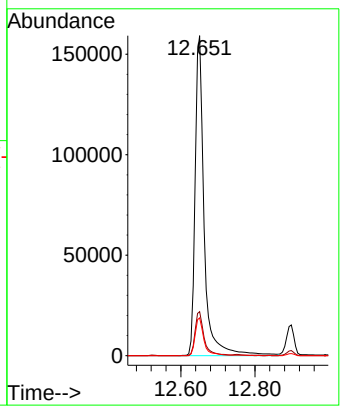




#77
Benzidine
Concen: 45.518 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:184 Resp: 27122

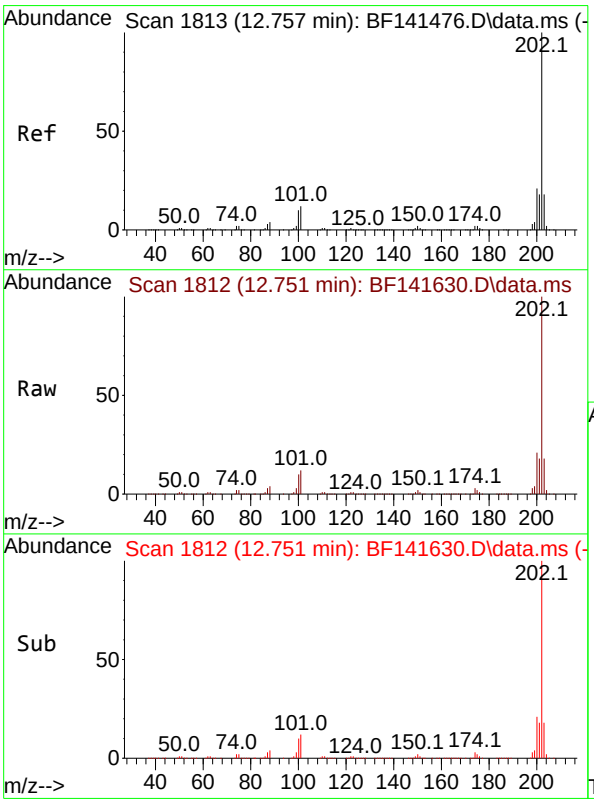
Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.3	16.9
183	11.8	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

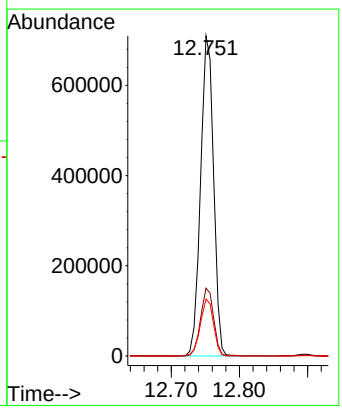
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

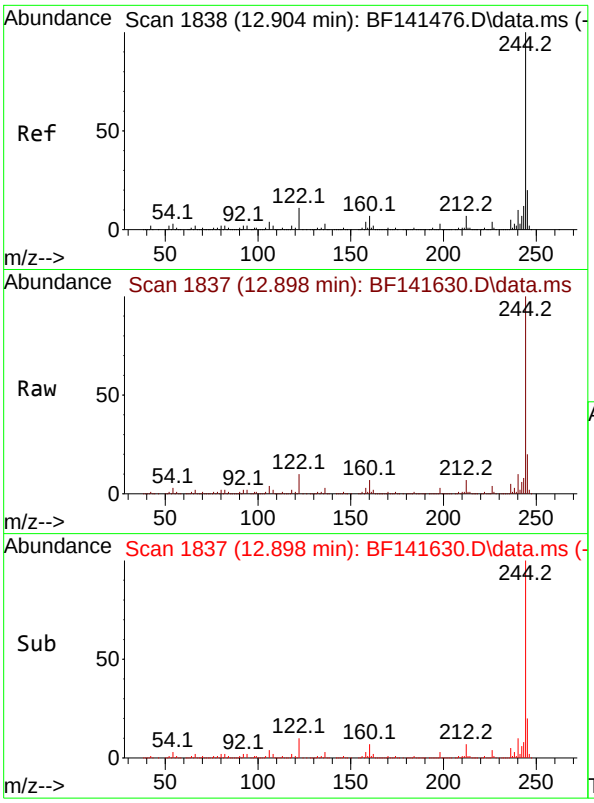


#78
Pyrene
Concen: 40.920 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:202 Resp: 941150

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.8	14.3	21.5

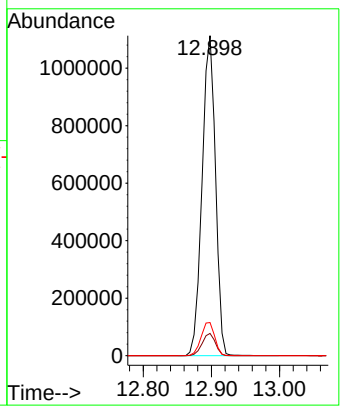




#79
Terphenyl-d14
Concen: 95.188 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:244 Resp: 152343

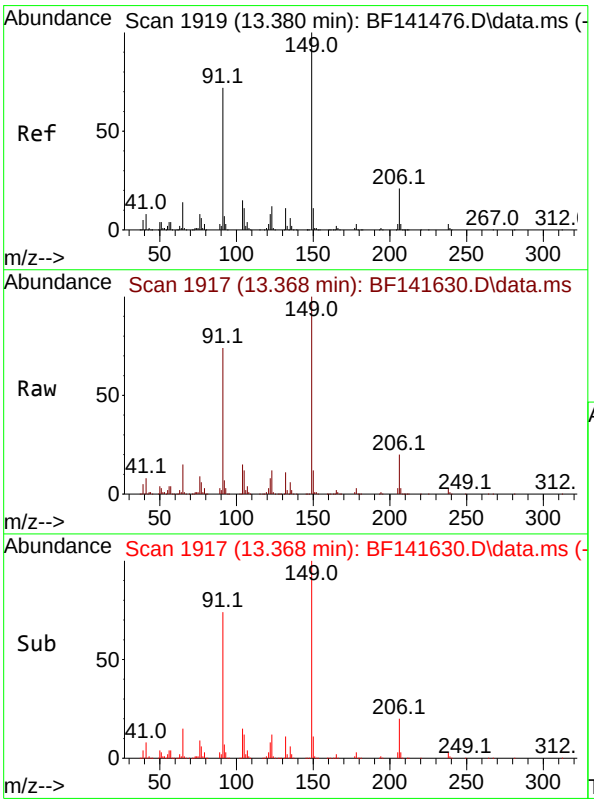
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.4	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

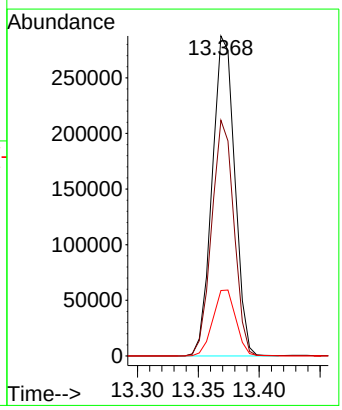
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

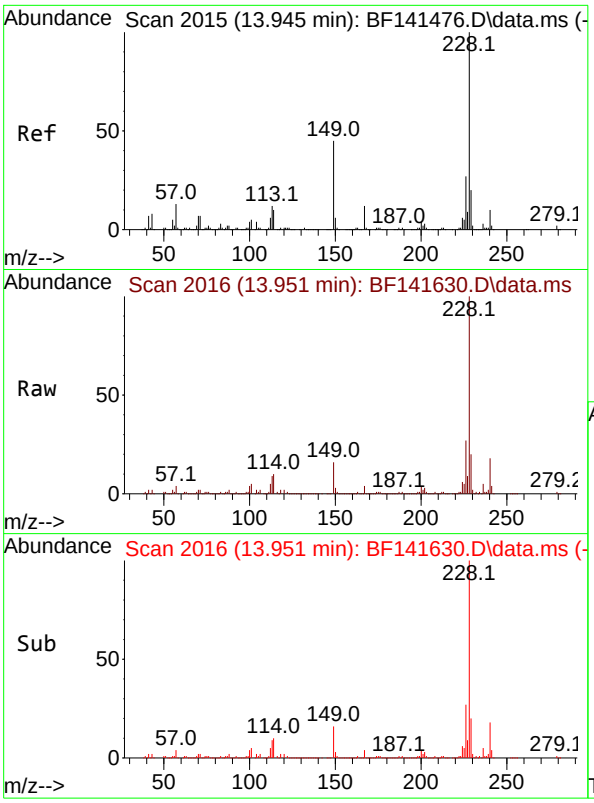


#80
Butylbenzylphthalate
Concen: 46.639 ng
RT: 13.368 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 371547

Ion	Ratio	Lower	Upper
149	100		
91	73.7	57.8	86.8
206	20.5	16.7	25.1

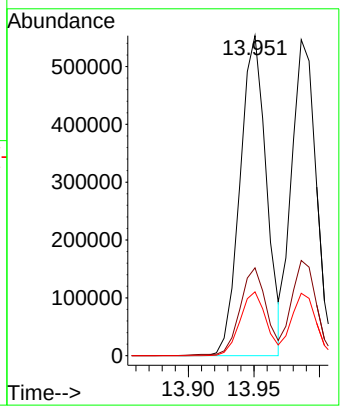




#81
Benzo(a)anthracene
Concen: 43.031 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:228 Resp: 77284

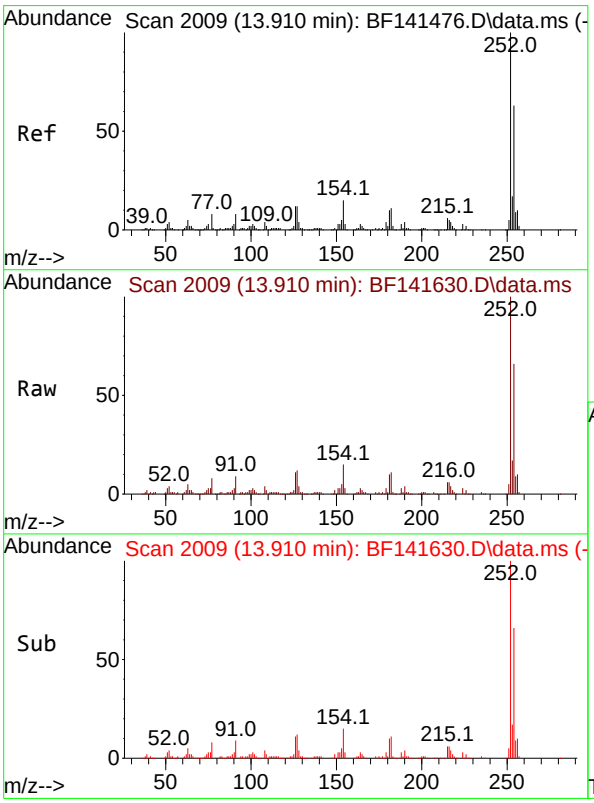
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	20.0	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

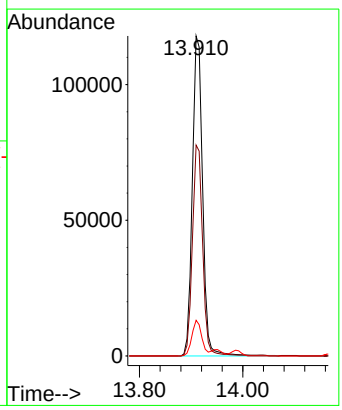
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

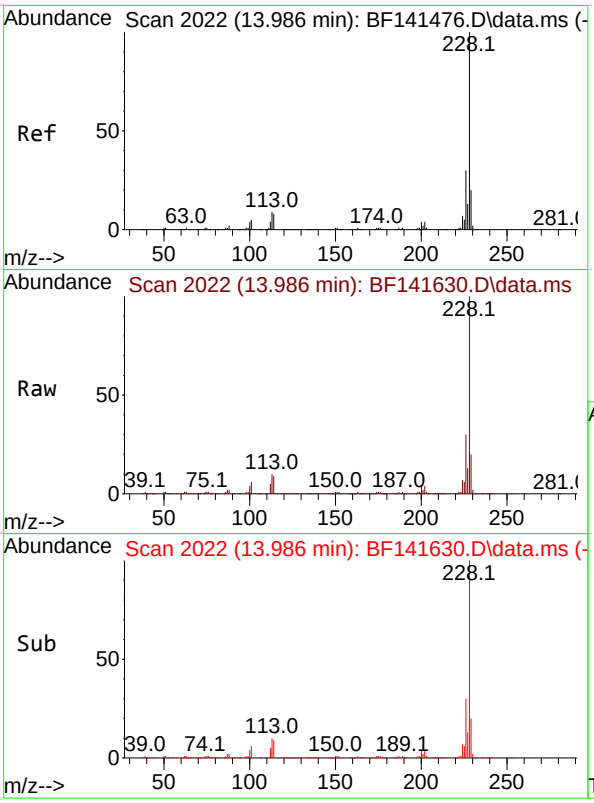


#82
3,3'-Dichlorobenzidine
Concen: 31.600 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:252 Resp: 162575

Ion	Ratio	Lower	Upper
252	100		
254	65.9	50.6	76.0
126	11.2	9.3	13.9

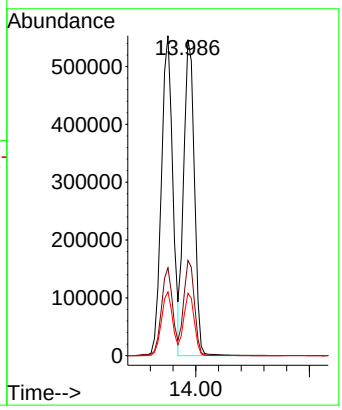




#83
Chrysene
Concen: 42.987 ng
RT: 13.986 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:228 Resp: 71286

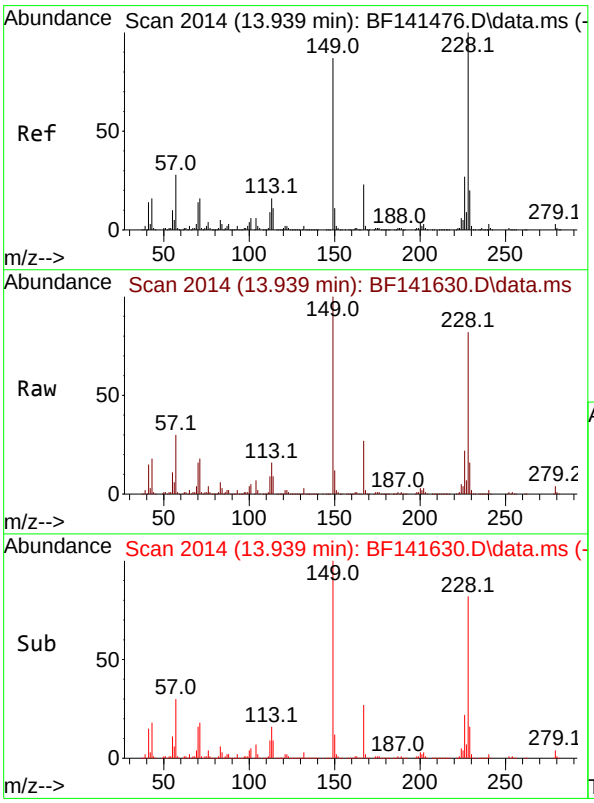
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.7	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

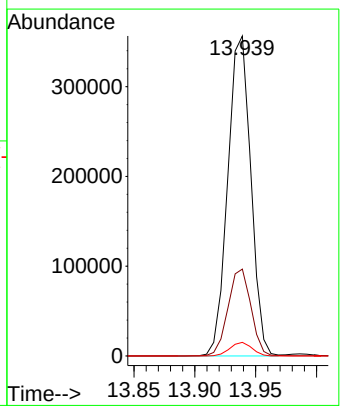
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

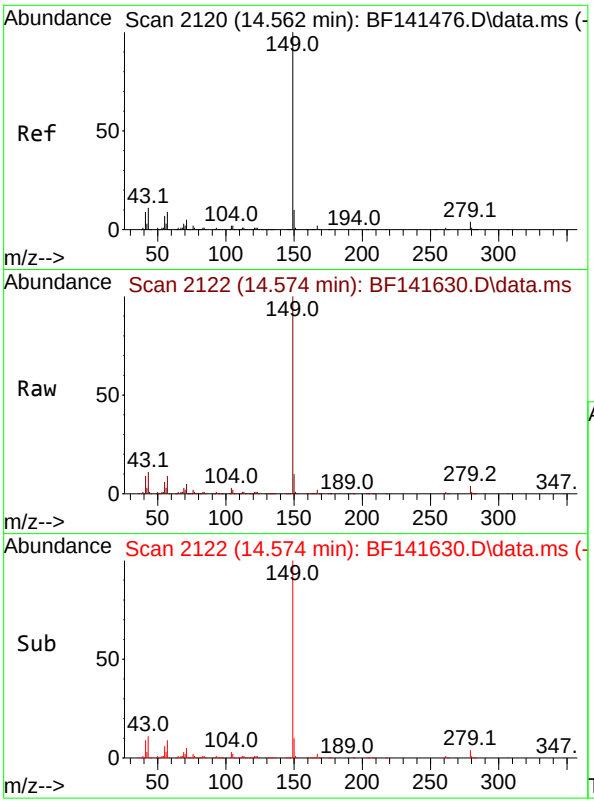


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.257 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 469530

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	4.3	3.1	4.7

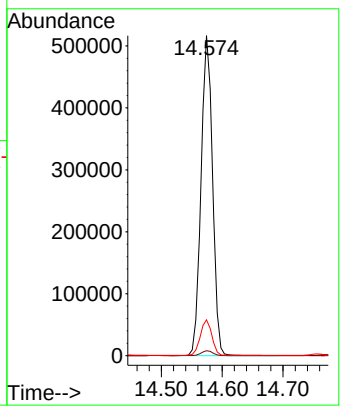




#85
Di-n-octyl phthalate
Concen: 52.993 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 67926

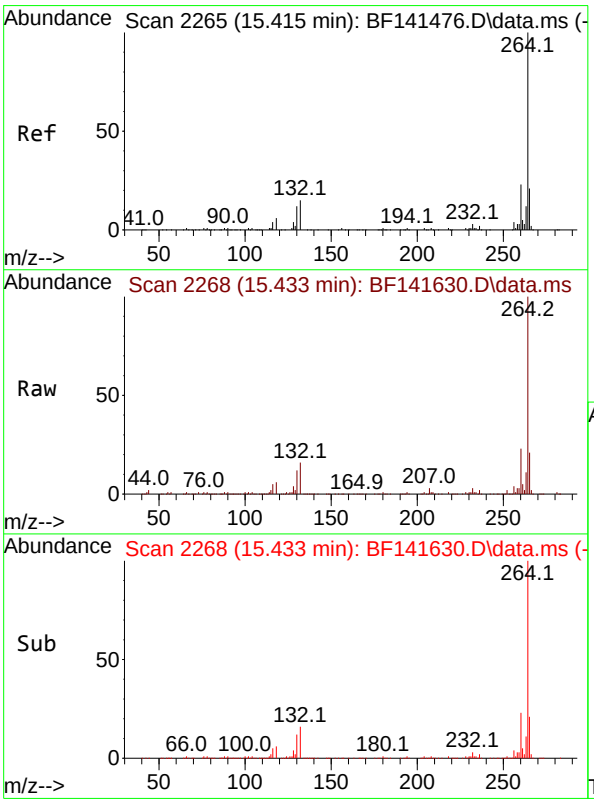
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.1	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

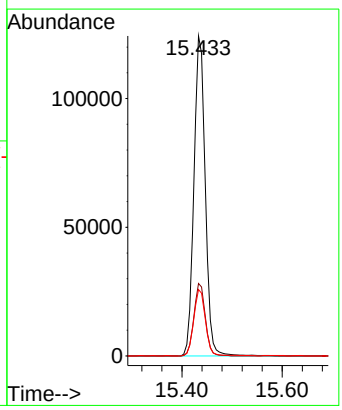
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

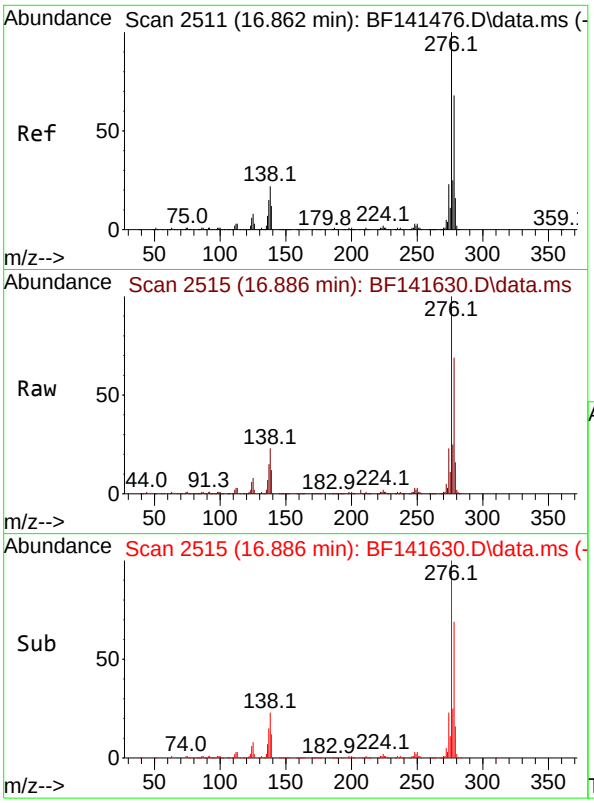


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. 0.018 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:264 Resp: 194810

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.6	28.0
265	20.7	17.0	25.4

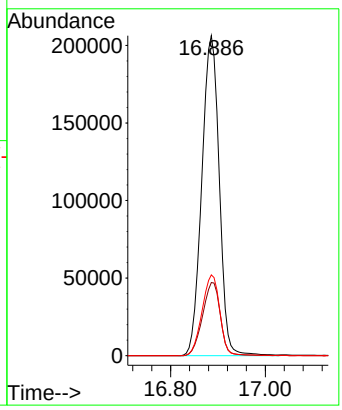




#87
Indeno(1,2,3-cd)pyrene
Concen: 43.937 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:276 Resp: 52887

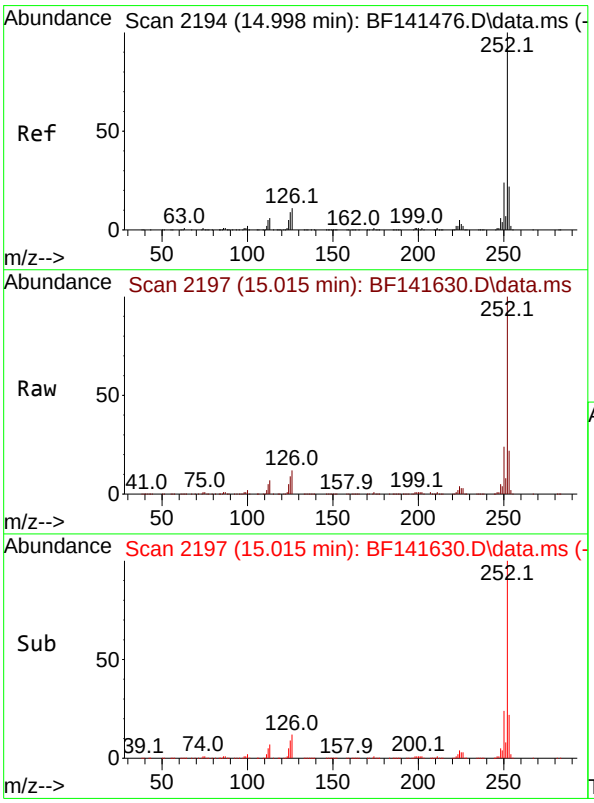
Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.0	27.0
277	25.6	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

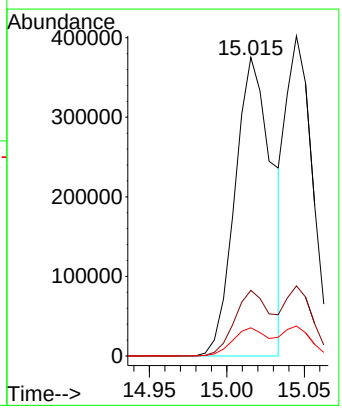
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

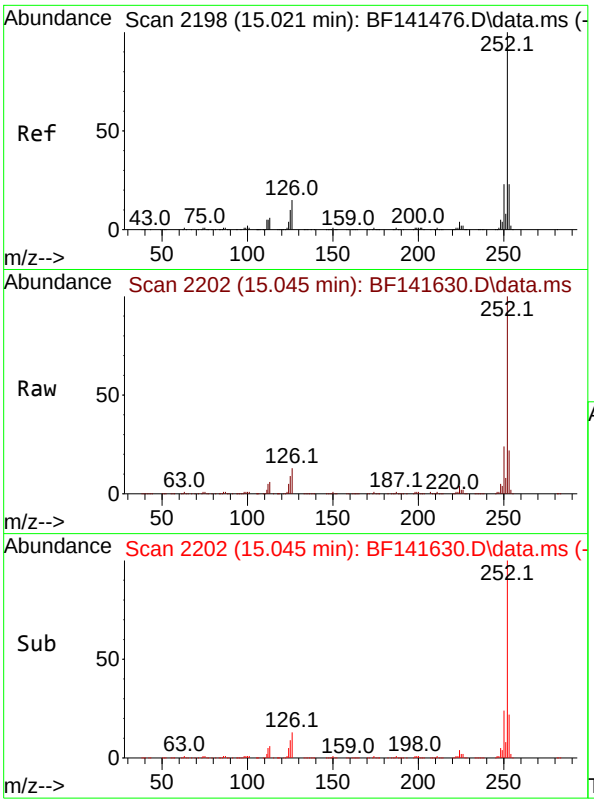


#88
Benzo(b)fluoranthene
Concen: 47.599 ng
RT: 15.015 min Scan# 2197
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:252 Resp: 622615

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.4	7.0	10.6





#89
Benzo(k)fluoranthene
Concen: 43.196 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

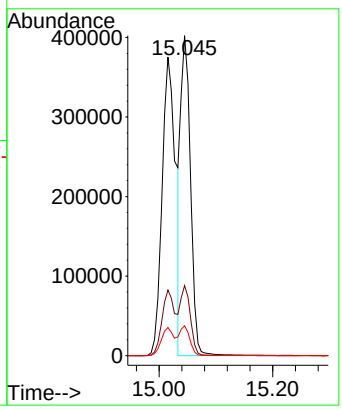
Tgt Ion:252 Resp: 48248

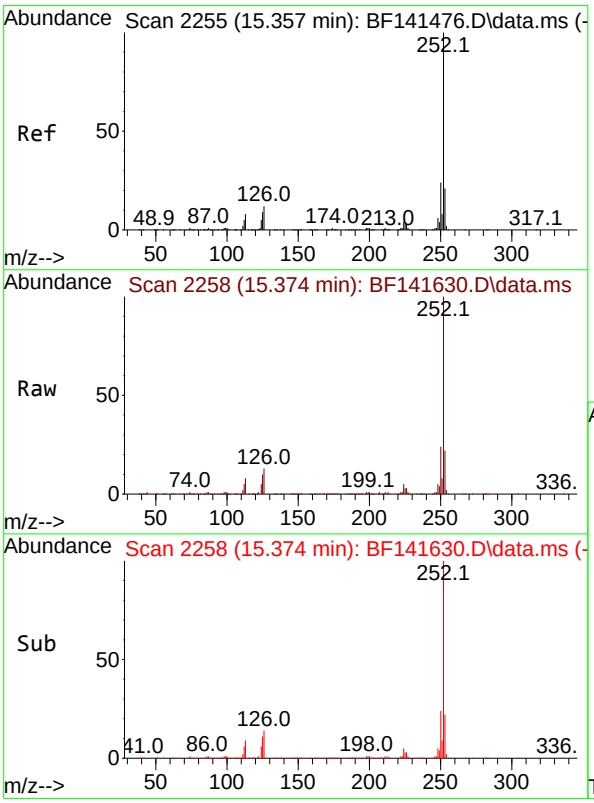
Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.0	27.0
125	9.3	7.4	11.0

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

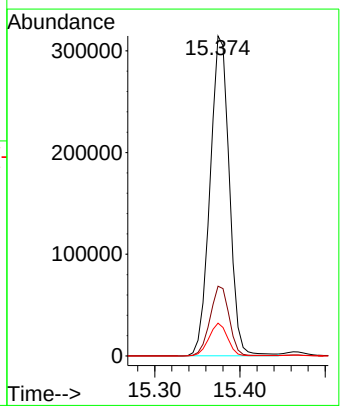


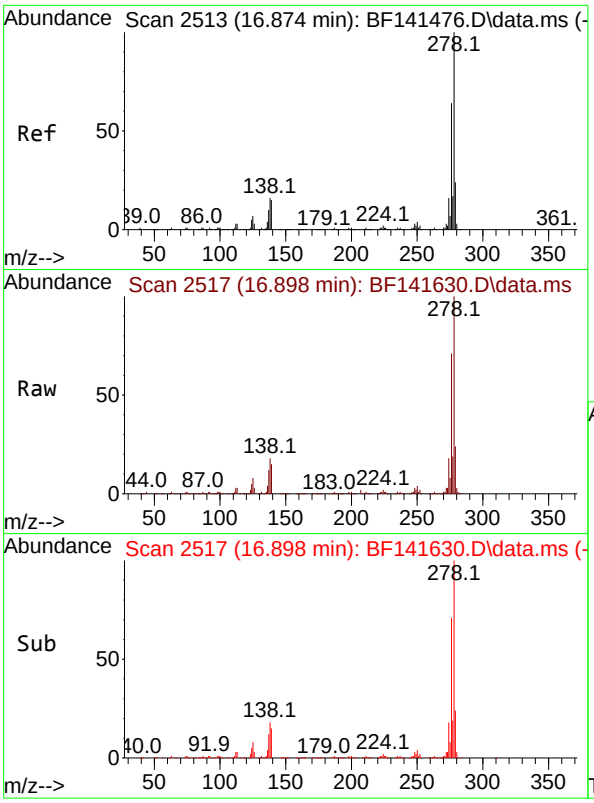


#90
Benzo(a)pyrene
Concen: 46.622 ng
RT: 15.374 min Scan# 2258
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:252 Resp: 493463

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.2	7.4	11.2

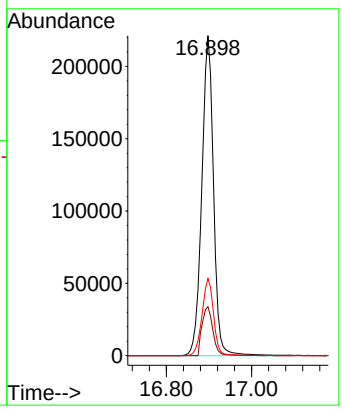




#91
Dibenzo(a,h)anthracene
Concen: 43.432 ng
RT: 16.898 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:278 Resp: 42361

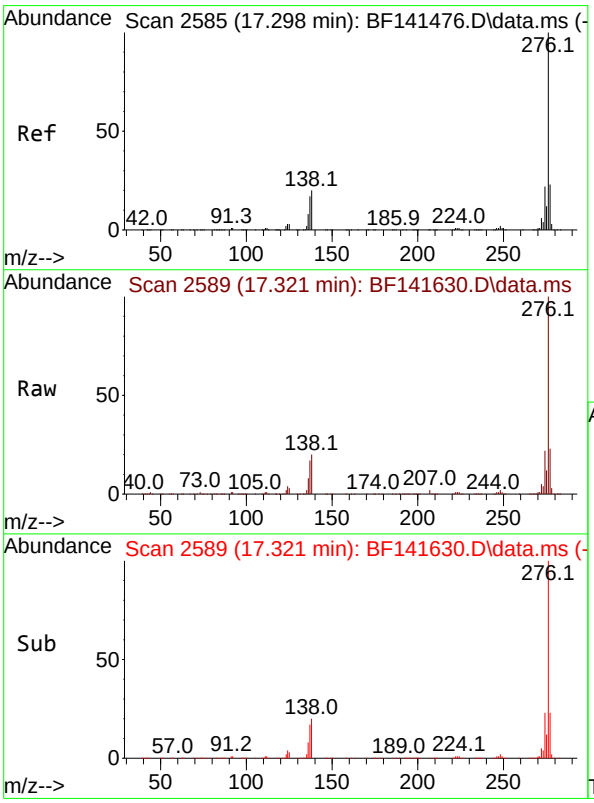
Ion	Ratio	Lower	Upper
278	100		
139	15.3	11.8	17.6
279	24.1	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
PB166711BS

Manual Integrations
APPROVED

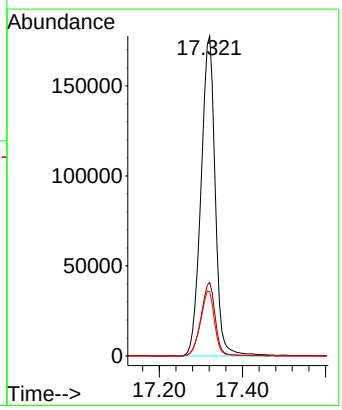
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#92
Benzo(g,h,i)perylene
Concen: 41.250 ng
RT: 17.321 min Scan# 2589
Delta R.T. 0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:276 Resp: 421022

Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.6	28.0
138	20.1	15.9	23.9



Raw Data: **BF141635.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	CARBON-WATERMS	SDG No.:	Q1352
Lab Sample ID:	Q1356-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141635.D	1	02/13/25 09:00	02/14/25 13:11	PB166711

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	230		15.5	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	440		8.40	40.0	50.0	ug/L
95-48-7	2-Methylphenol	440		11.3	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	450		11.5	80.0	100	ug/L
67-72-1	Hexachloroethane	440		10.1	40.0	50.0	ug/L
98-95-3	Nitrobenzene	440		12.7	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	440		12.7	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	440		8.90	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	440		10.1	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	470		15.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	470		11.4	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	800	E	18.5	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	132		19 - 119		88%	SPK: 150
13127-88-3	Phenol-d6	119		10 - 130		80%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.9		44 - 120		96%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.3		44 - 119		94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		43 - 140		95%	SPK: 150
1718-51-0	Terphenyl-d14	109		50 - 134		109%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	82500	6.787				
1146-65-2	Naphthalene-d8	334000	8.069				
15067-26-2	Acenaphthene-d10	184000	9.822				
1517-22-2	Phenanthrene-d10	313000	11.31				
1719-03-5	Chrysene-d12	204000	13.957				
1520-96-3	Perylene-d12	166000	15.427				

Raw Data: **BF141635.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	CARBON-WATERMS	SDG No.:	Q1352
Lab Sample ID:	Q1356-04MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141635.D	1	02/13/25 09:00	02/14/25 13:11	PB166711

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

Sample Results: **BF141635.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141635.D
Acq On : 14 Feb 2025 13:11
Operator : RC/JU
Sample : Q1356-04MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 14 13:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	82541	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	333730	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	183625	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	312520	20.000	ng		0.00
76) Chrysene-d12	13.957	240	204031	20.000	ng		0.00
86) Perylene-d12	15.427	264	166342	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	693518	131.723	ng		0.00
7) Phenol-d6	6.434	99	794277	119.360	ng		0.00
23) Nitrobenzene-d5	7.351	82	613617	95.901	ng		-0.01
42) 2,4,6-Tribromophenol	10.616	330	263901	143.067	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1124066	94.311	ng		0.00
79) Terphenyl-d14	12.892	244	1317587	109.018	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	92129	43.477	ng		99
3) Pyridine	3.275	79	117348	23.272	ng		95
4) n-Nitrosodimethylamine	3.216	42	133177	39.887	ng		92
6) Aniline	6.451	93	129689	20.776	ng	#	63
8) 2-Chlorophenol	6.575	128	257064	45.186	ng		100
9) Benzaldehyde	6.334	77	95249	26.935	ng		98
10) Phenol	6.446	94	264701	38.218	ng		88
11) bis(2-Chloroethyl)ether	6.522	93	238793	45.902	ng		99
12) 1,3-Dichlorobenzene	6.728	146	266852	44.431	ng		97
13) 1,4-Dichlorobenzene	6.804	146	270354	44.057	ng		99
14) 1,2-Dichlorobenzene	6.957	146	259891	45.633	ng		98
15) Benzyl Alcohol	6.934	79	207124	40.589	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.063	45	384275	43.152	ng		82
17) 2-Methylphenol	7.051	107	197937	44.460	ng		97
18) Hexachloroethane	7.298	117	99240	43.699	ng		94
19) n-Nitroso-di-n-propyla...	7.204	70	180770	45.415	ng		96
20) 3+4-Methylphenols	7.204	107	255815	45.214	ng		97
22) Acetophenone	7.198	105	400267	48.215	ng		95
24) Nitrobenzene	7.375	77	277605	44.493	ng		98
25) Isophorone	7.610	82	481954	47.241	ng		98
26) 2-Nitrophenol	7.687	139	139383	44.902	ng		94
27) 2,4-Dimethylphenol	7.728	122	207156	57.126	ng		99
28) bis(2-Chloroethoxy)met...	7.822	93	297285	45.475	ng		99
29) 2,4-Dichlorophenol	7.934	162	219784	44.857	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	233356	43.736	ng		99
31) Naphthalene	8.092	128	746429	42.968	ng		100
32) Benzoic acid	7.857	122	120000	31.858	ng		99
33) 4-Chloroaniline	8.157	127	54001	8.903	ng		98
34) Hexachlorobutadiene	8.204	225	141846	44.283	ng		100
35) Caprolactam	8.510	113	57974m	38.862	ng		
36) 4-Chloro-3-methylphenol	8.640	107	235173	43.331	ng		99
37) 2-Methylnaphthalene	8.781	142	480745	42.527	ng		99
38) 1-Methylnaphthalene	8.881	142	463938	42.374	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	259283	48.806	ng		99
41) Hexachlorocyclopentadiene	8.934	237	254667	144.126	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	150924	43.956	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141635.D
Acq On : 14 Feb 2025 13:11
Operator : RC/JU
Sample : Q1356-04MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 14 13:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	163085	43.826	ng	97
46) 1,1'-Biphenyl	9.245	154	705956	49.589	ng	99
47) 2-Chloronaphthalene	9.269	162	478181	45.423	ng	99
48) 2-Nitroaniline	9.369	65	153564	43.466	ng	99
49) Acenaphthylene	9.687	152	725425	46.329	ng	99
50) Dimethylphthalate	9.545	163	562461	45.120	ng	99
51) 2,6-Dinitrotoluene	9.610	165	124403	45.651	ng	99
52) Acenaphthene	9.857	154	453985	43.127	ng	99
53) 3-Nitroaniline	9.781	138	52650	17.951	ng	100
54) 2,4-Dinitrophenol	9.898	184	141831	87.571	ng	91
55) Dibenzofuran	10.028	168	664370	42.998	ng	100
56) 4-Nitrophenol	9.963	139	167993	77.157	ng	95
57) 2,4-Dinitrotoluene	10.016	165	170097	46.887	ng	98
58) Fluorene	10.375	166	532609	44.581	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	138555	43.249	ng	97
60) Diethylphthalate	10.245	149	536744	43.763	ng	100
61) 4-Chlorophenyl-phenyle...	10.363	204	254718	44.318	ng	99
62) 4-Nitroaniline	10.398	138	120020	40.299	ng	98
63) Azobenzene	10.522	77	515646	42.291	ng	97
65) 4,6-Dinitro-2-methylph...	10.428	198	98963	45.586	ng	97
66) n-Nitrosodiphenylamine	10.486	169	459536	45.935	ng	100
67) 4-Bromophenyl-phenylether	10.851	248	158612	45.411	ng	96
68) Hexachlorobenzene	10.922	284	170769	47.480	ng	98
69) Atrazine	11.016	200	158816	52.917	ng	99
70) Pentachlorophenol	11.122	266	184164	80.079	ng	98
71) Phenanthrene	11.333	178	794719	46.197	ng	100
72) Anthracene	11.386	178	816284	47.203	ng	100
73) Carbazole	11.545	167	710438	45.658	ng	100
74) Di-n-butylphthalate	11.869	149	832214	46.320	ng	100
75) Fluoranthene	12.522	202	826241	45.302	ng	100
77) Benzidine	12.657	184	66894	14.866	ng	98
78) Pyrene	12.751	202	831505	47.874	ng	100
80) Butylbenzylphthalate	13.369	149	305455	50.774	ng	99
81) Benzo(a)anthracene	13.945	228	629764	46.434	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	108836	28.014	ng	98
83) Chrysene	13.980	228	585065	46.719	ng	99
84) Bis(2-ethylhexyl)phtha...	13.933	149	353256	52.064	ng	100
85) Di-n-octyl phthalate	14.563	149	486829	50.295	ng	99
87) Indeno(1,2,3-cd)pyrene	16.874	276	541787	52.713	ng	99
88) Benzo(b)fluoranthene	15.004	252	517956	46.374	ng	99
89) Benzo(k)fluoranthene	15.033	252	425886	44.654	ng	99
90) Benzo(a)pyrene	15.363	252	442121	48.920	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	436268	52.384	ng	99
92) Benzo(g,h,i)perylene	17.304	276	427909	49.099	ng	99

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

Sample Results: **BF141635.D**

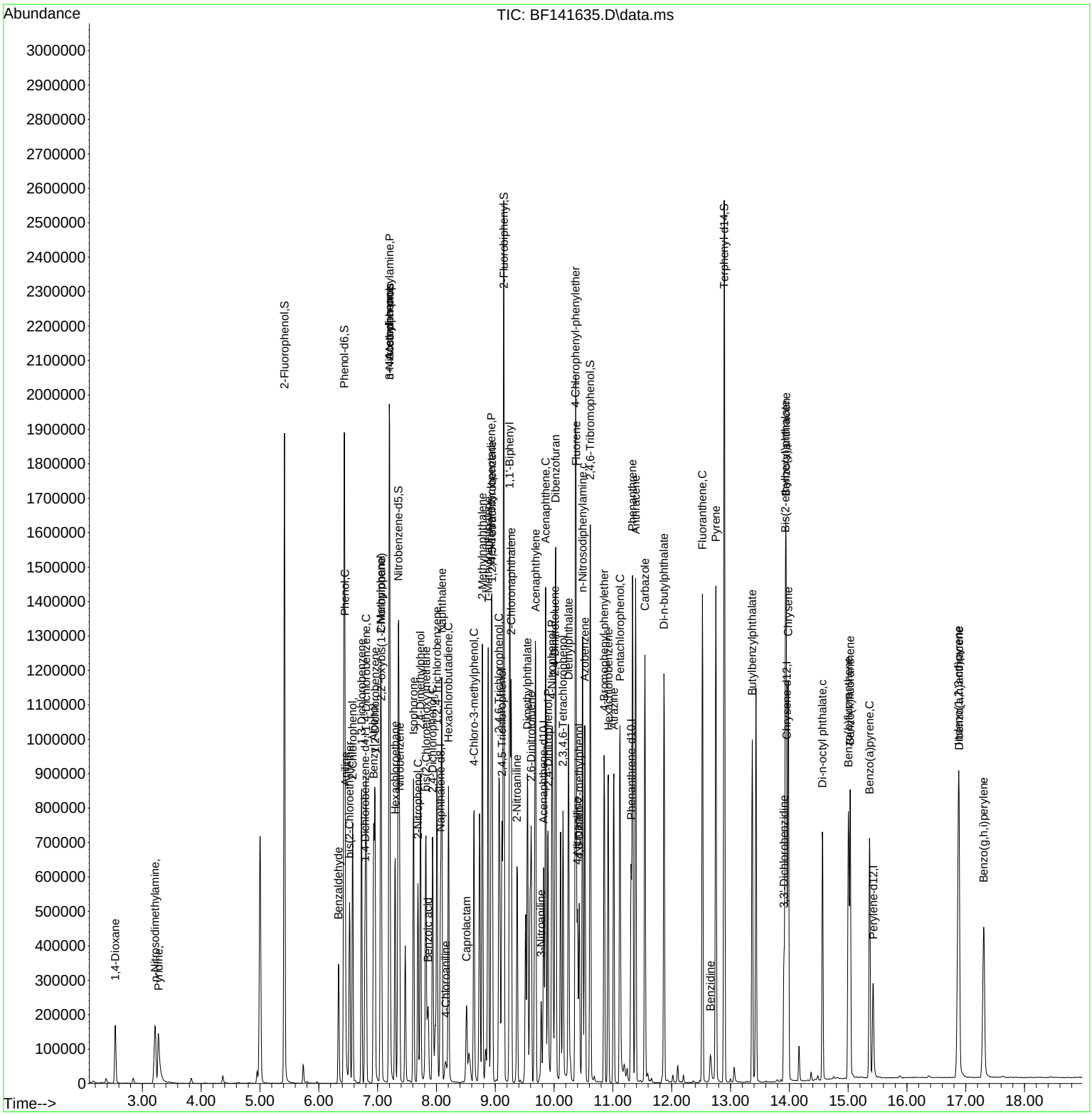
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141635.D
Acq On : 14 Feb 2025 13:11
Operator : RC/JU
Sample : Q1356-04MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

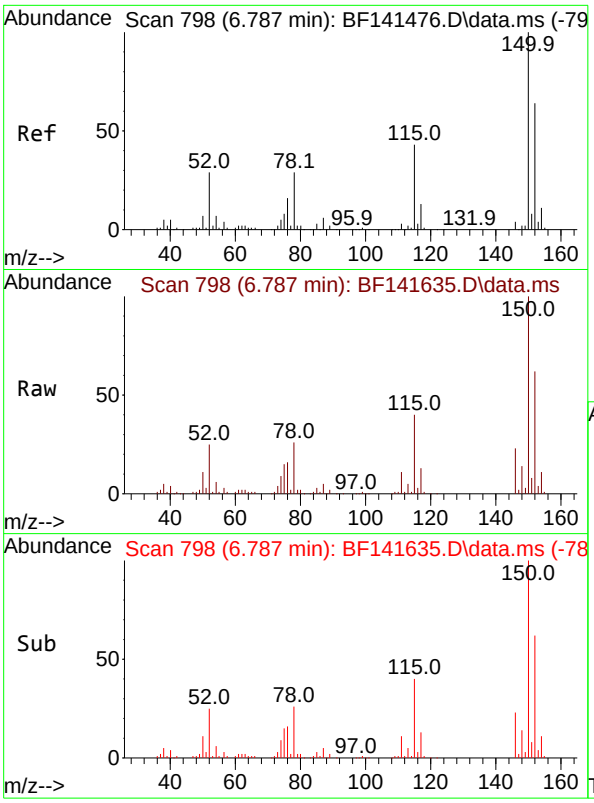
Quant Time: Feb 14 13:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

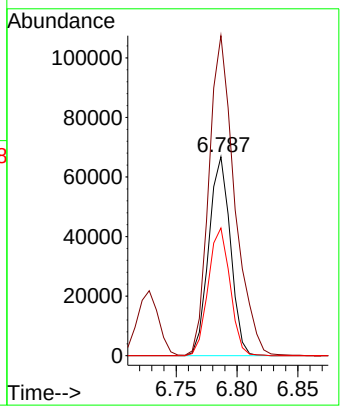




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:152 Resp: 8254

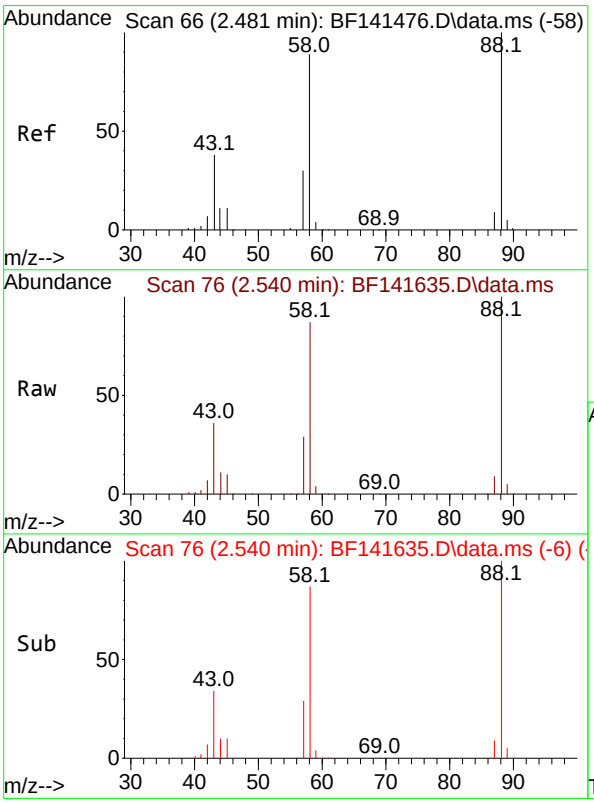
Ion	Ratio	Lower	Upper
152	100		
150	160.8	125.0	187.4
115	64.2	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

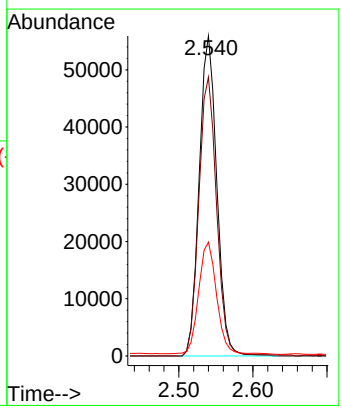
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

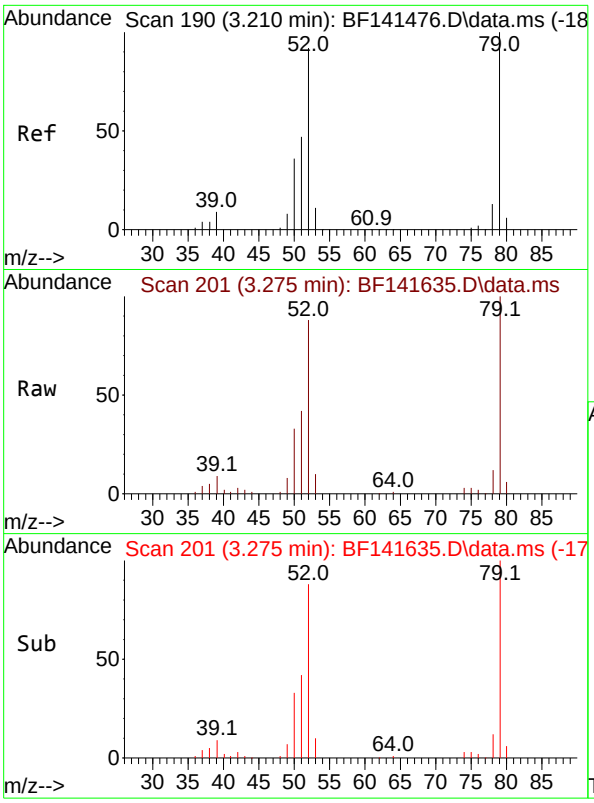


#2
1,4-Dioxane
Concen: 43.477 ng
RT: 2.540 min Scan# 76
Delta R.T. 0.059 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 88 Resp: 92129

Ion	Ratio	Lower	Upper
88	100		
58	88.5	71.1	106.7
43	36.3	30.6	46.0

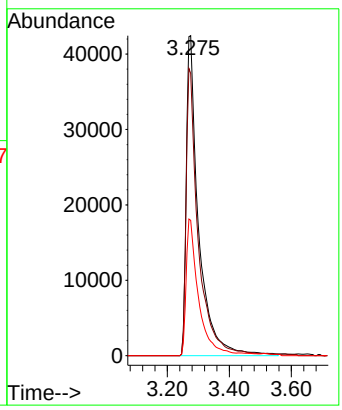




#3
Pyridine
Concen: 23.272 ng
RT: 3.275 min Scan# 2
Delta R.T. 0.059 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 79 Resp: 11734

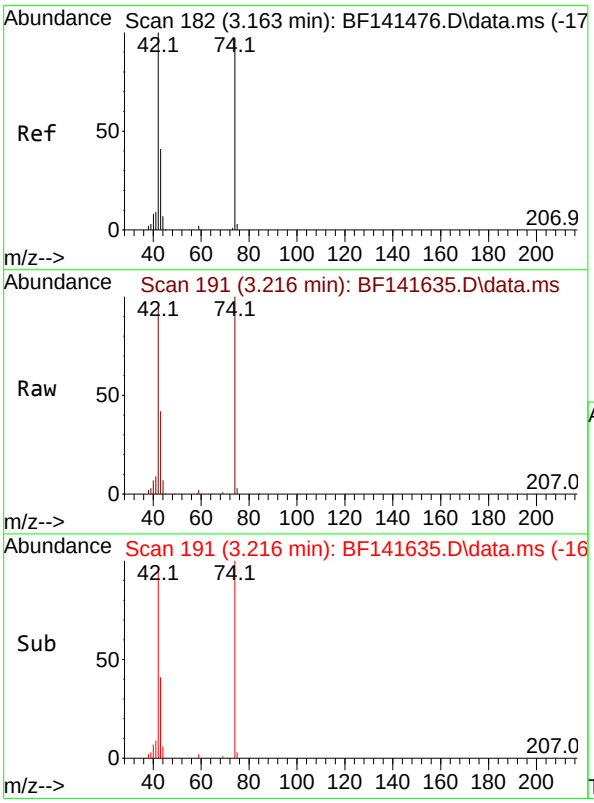
Ion	Ratio	Lower	Upper
79	100		
52	88.2	73.7	110.5
51	42.3	37.5	56.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

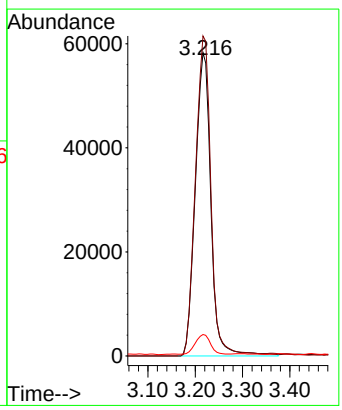
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

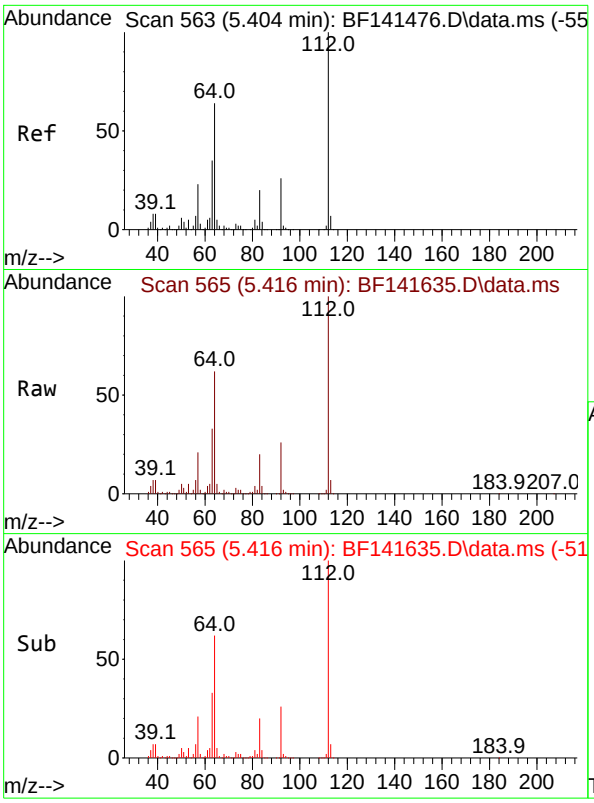


#4
n-Nitrosodimethylamine
Concen: 39.887 ng
RT: 3.216 min Scan# 191
Delta R.T. 0.030 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 42 Resp: 133177

Ion	Ratio	Lower	Upper
42	100		
74	105.5	78.0	117.0
44	7.1	5.4	8.2





#5
2-Fluorophenol
Concen: 131.723 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

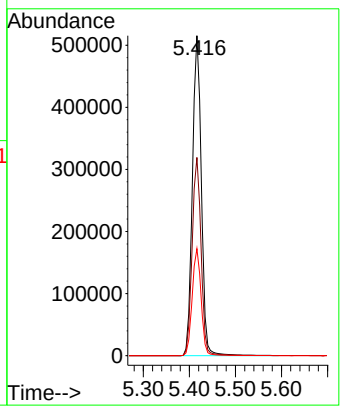
Tgt Ion:112 Resp: 69351

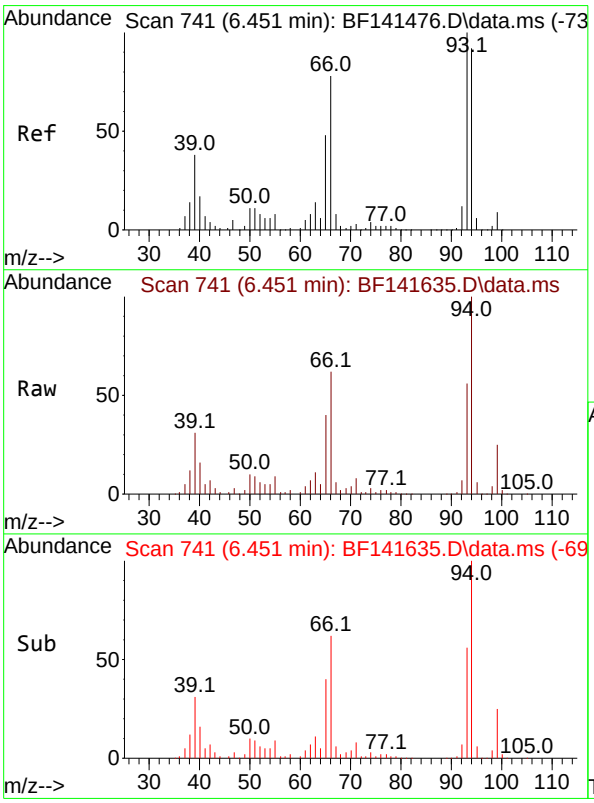
Ion	Ratio	Lower	Upper
112	100		
64	61.9	51.1	76.7
63	33.4	28.4	42.6

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

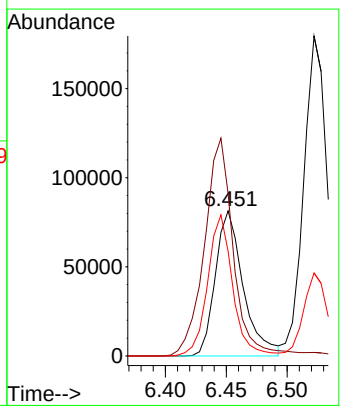


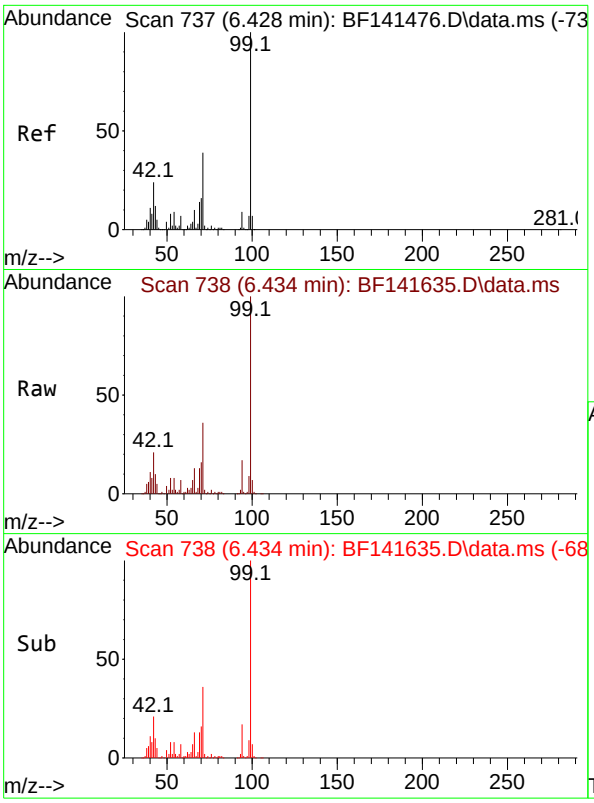


#6
Aniline
Concen: 20.776 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 93 Resp: 129689

Ion	Ratio	Lower	Upper
93	100		
66	111.8	62.6	94.0#
65	72.1	38.3	57.5#

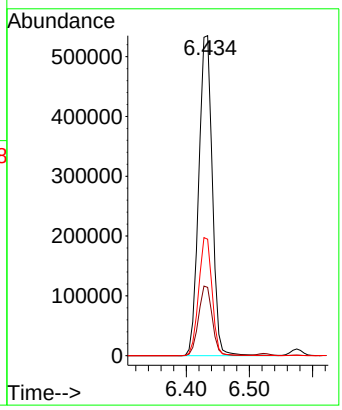




#7
Phenol-d6
Concen: 119.360 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 99 Resp: 79427

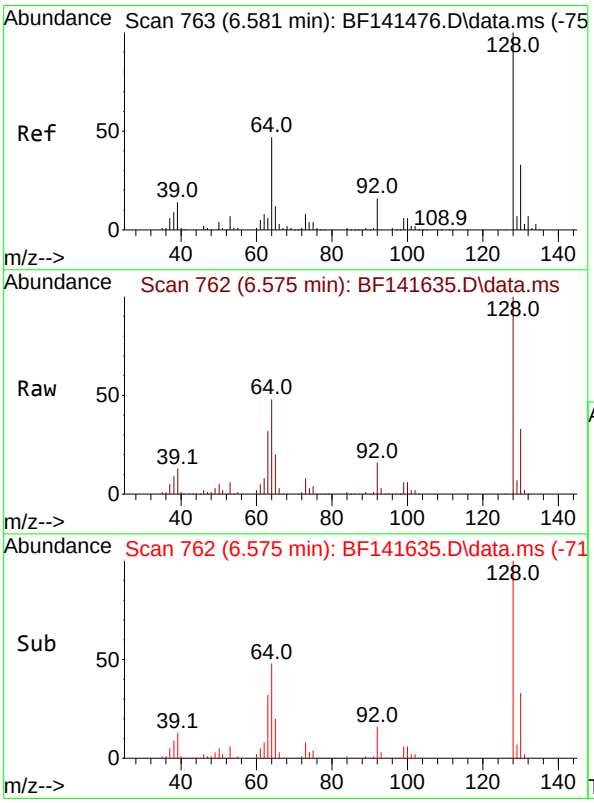
Ion	Ratio	Lower	Upper
99	100		
42	21.3	19.1	28.7
71	36.4	31.1	46.7



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

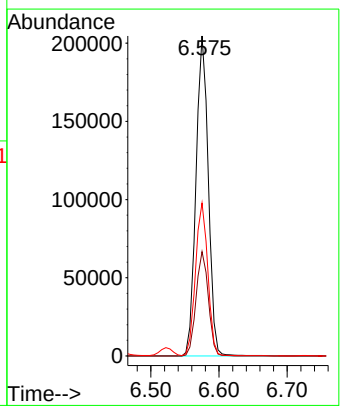
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

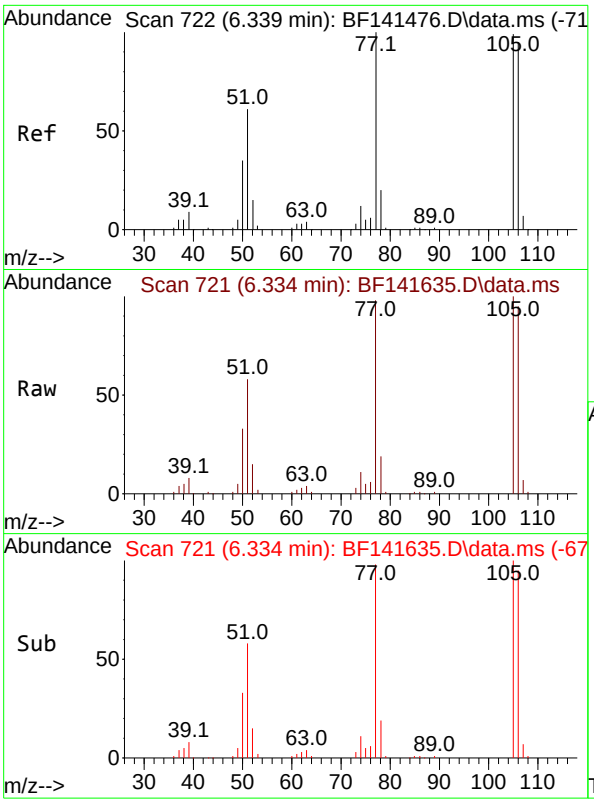


#8
2-Chlorophenol
Concen: 45.186 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:128 Resp: 257064

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.7	52.7
64	47.8	28.3	68.3

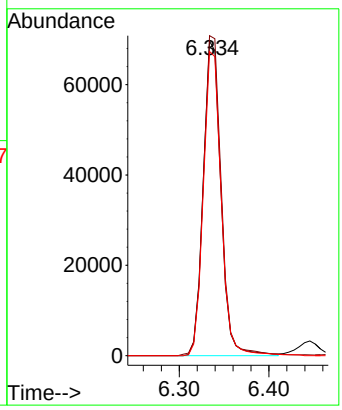




#9
Benzaldehyde
Concen: 26.935 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 77 Resp: 9524

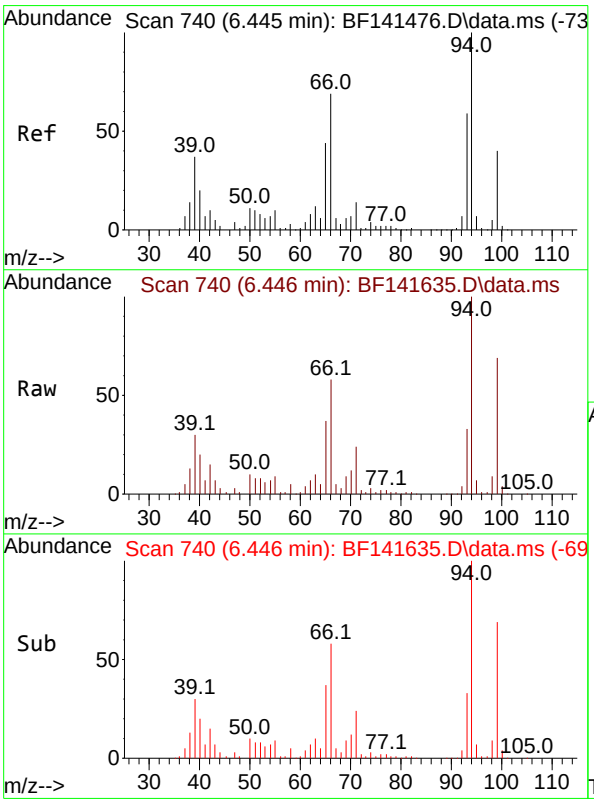
Ion	Ratio	Lower	Upper
77	100		
105	101.8	79.4	119.4
106	96.7	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

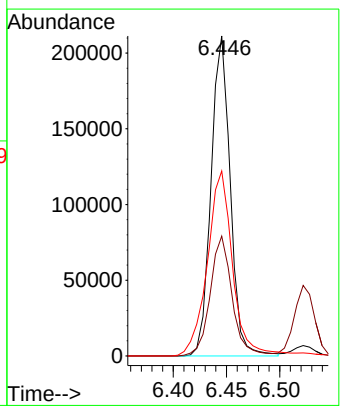
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

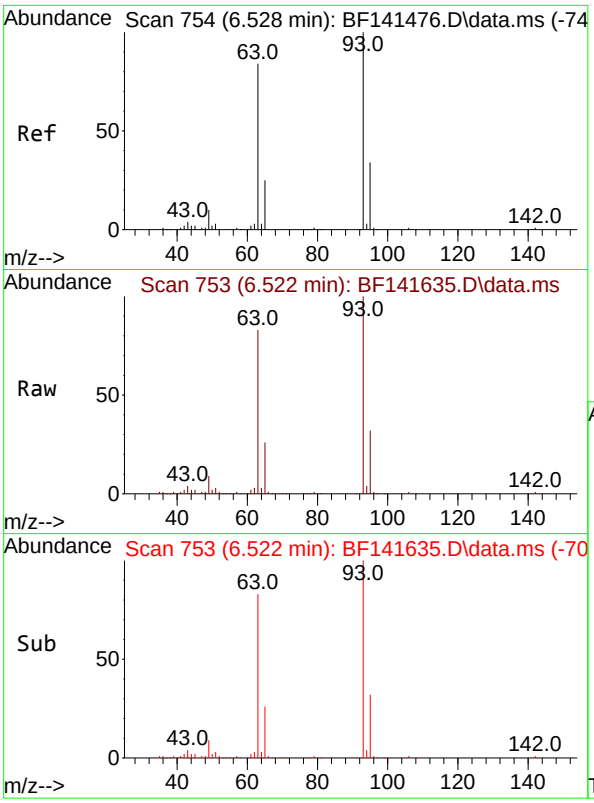


#10
Phenol
Concen: 38.218 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 94 Resp: 264701

Ion	Ratio	Lower	Upper
94	100		
65	37.5	23.7	63.7
66	57.8	49.3	89.3

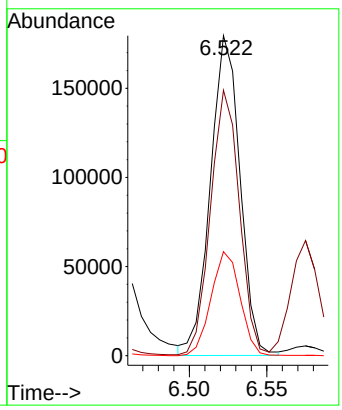




#11
bis(2-Chloroethyl)ether
Concen: 45.902 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 93 Resp: 23879

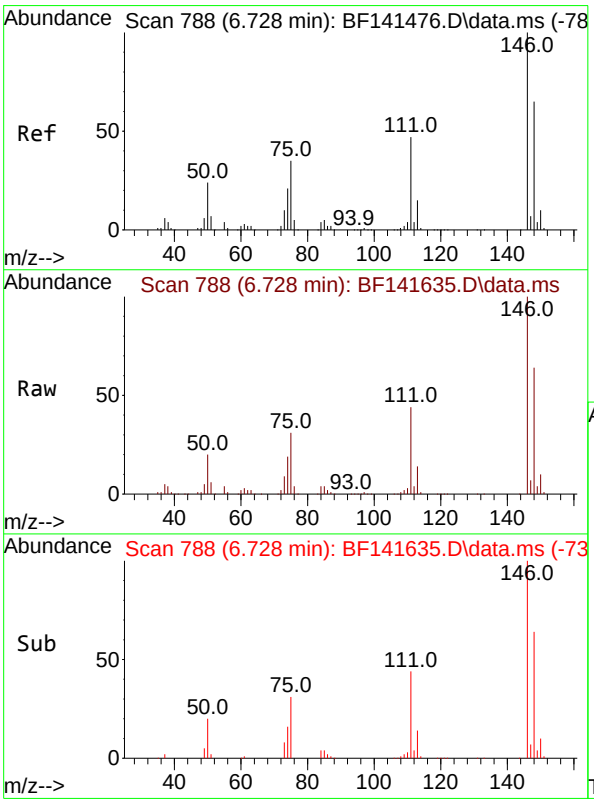
Ion	Ratio	Lower	Upper
93	100		
63	83.0	62.0	102.0
95	32.5	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

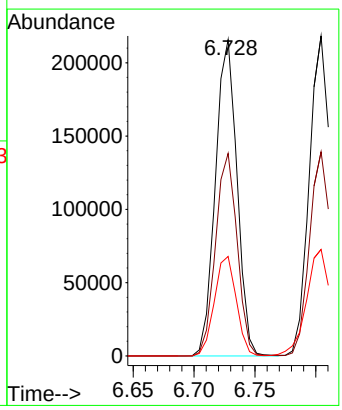
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

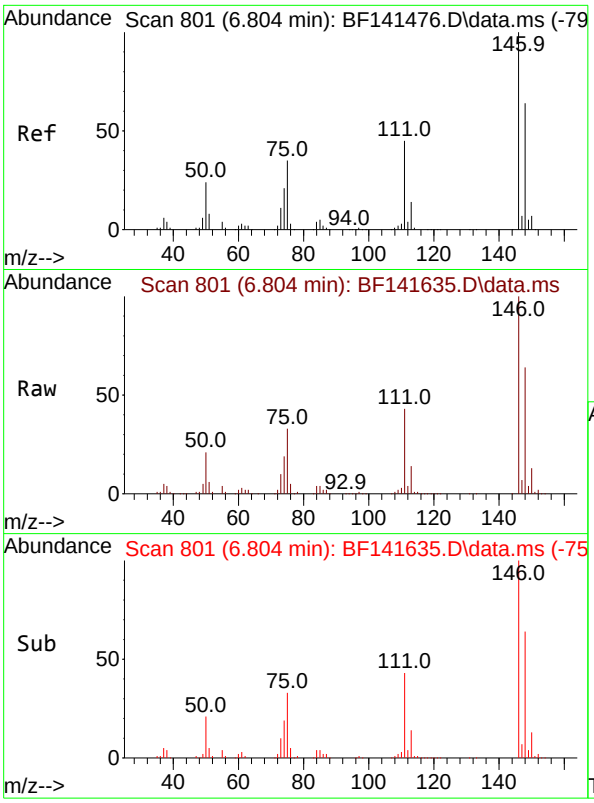


#12
1,3-Dichlorobenzene
Concen: 44.431 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:146 Resp: 266852

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.9	77.9
75	31.5	28.2	42.2

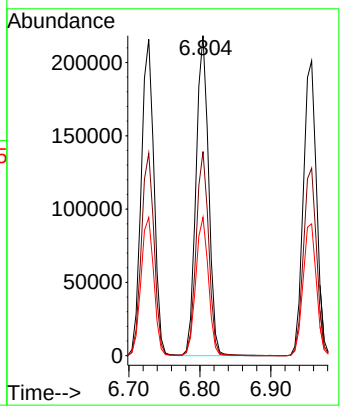




#13
1,4-Dichlorobenzene
Concen: 44.057 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:146 Resp: 27035

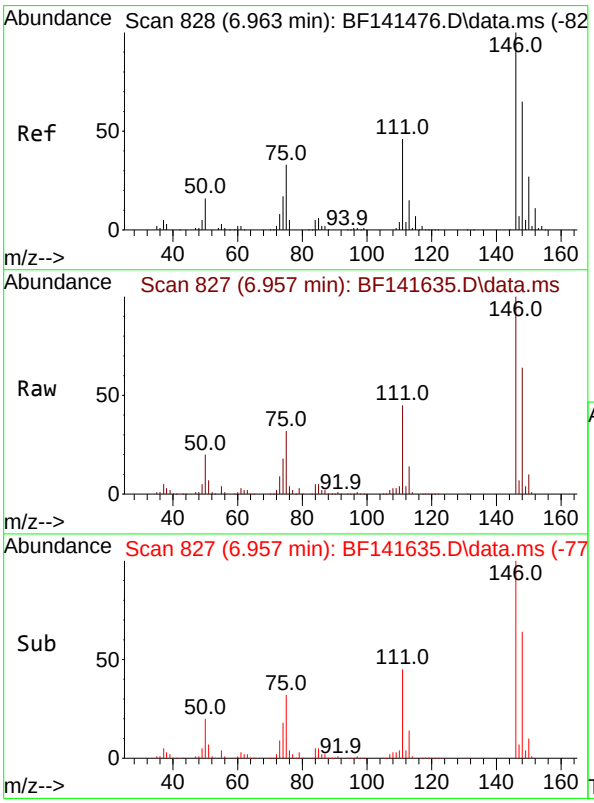
Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.9	76.3
111	43.2	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

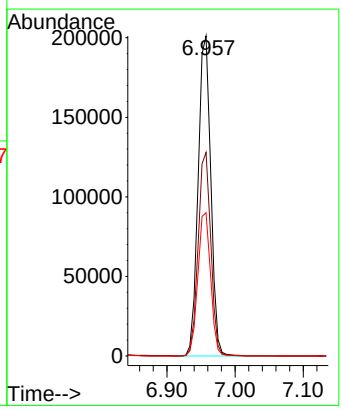
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

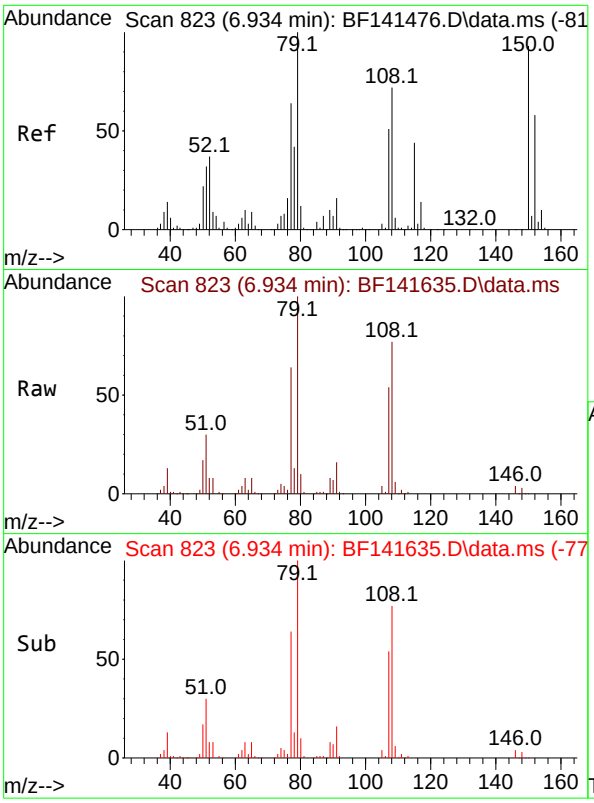


#14
1,2-Dichlorobenzene
Concen: 45.633 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:146 Resp: 259891

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.8	77.6
111	44.7	37.0	55.4





#15
Benzyl Alcohol
Concen: 40.589 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

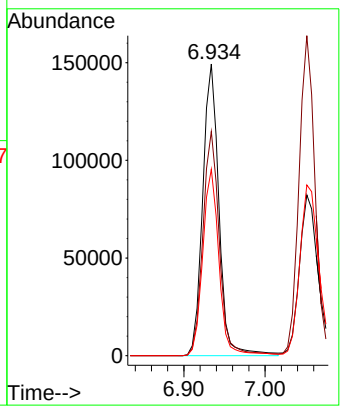
Tgt Ion: 79 Resp: 20712

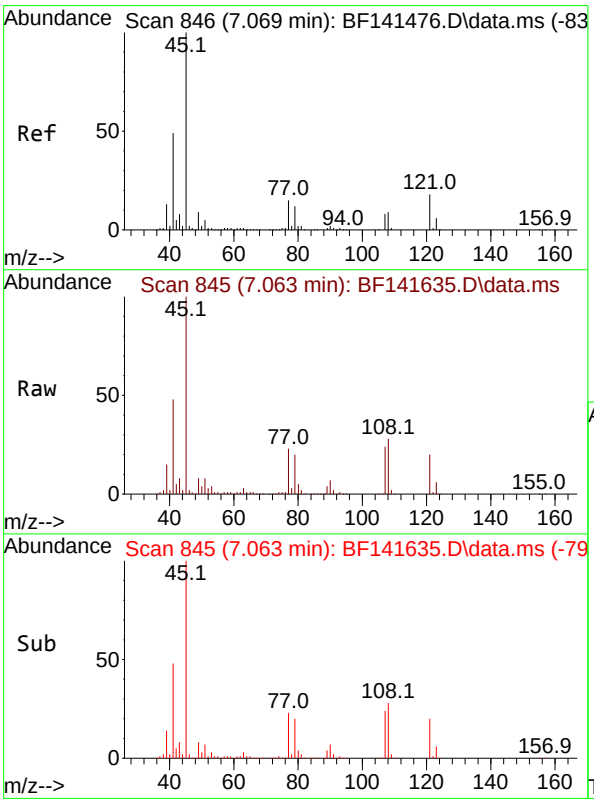
Ion	Ratio	Lower	Upper
79	100		
108	76.9	57.4	86.2
77	63.9	50.9	76.3

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

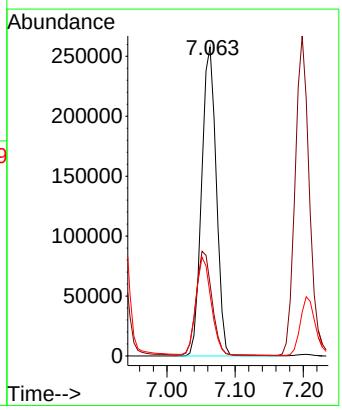


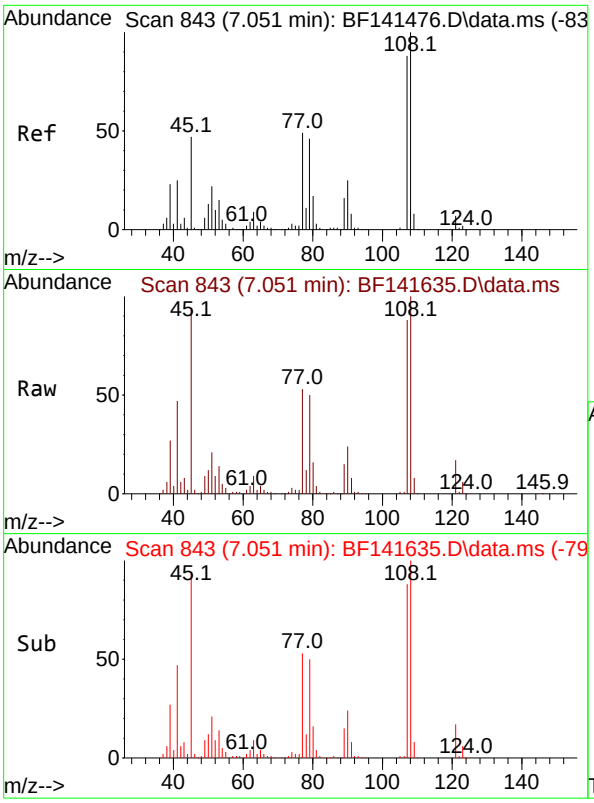


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.152 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 45 Resp: 384275

Ion	Ratio	Lower	Upper
45	100		
77	23.3	0.0	35.8
79	19.9	0.0	32.7

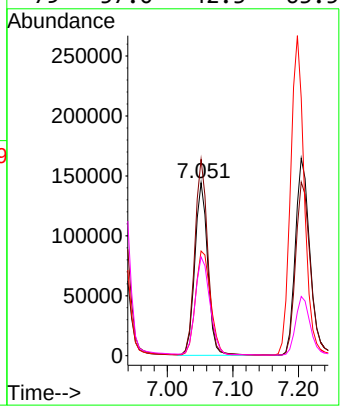




#17
2-Methylphenol
Concen: 44.460 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:107 Resp: 19793

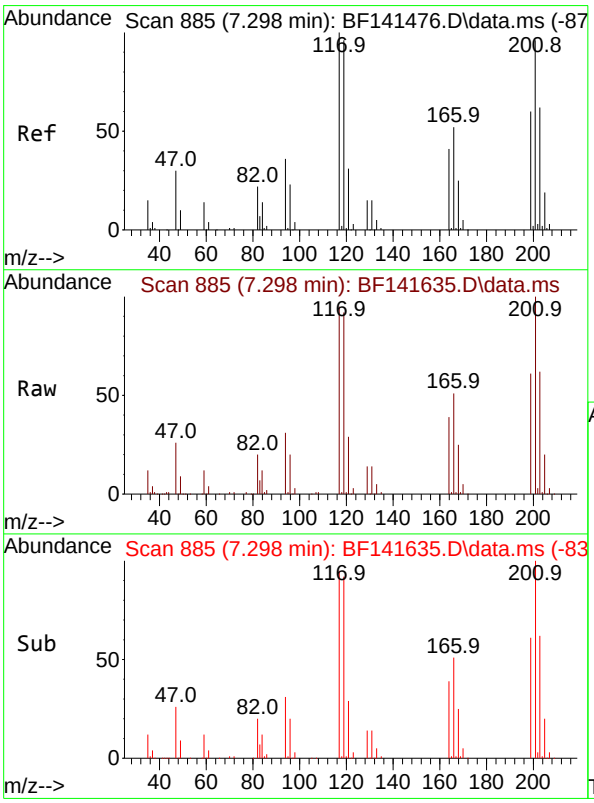
Ion	Ratio	Lower	Upper
107	100		
108	113.5	90.6	136.0
77	60.5	44.4	66.6
79	57.0	42.3	63.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

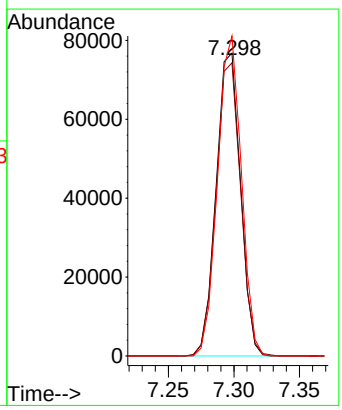
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

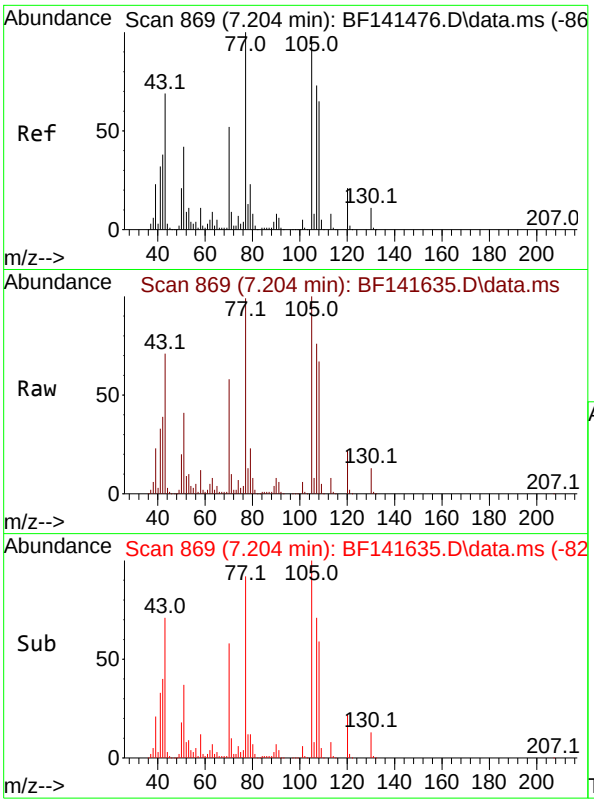


#18
Hexachloroethane
Concen: 43.699 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:117 Resp: 99240

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.5	114.7
201	105.6	76.7	115.1

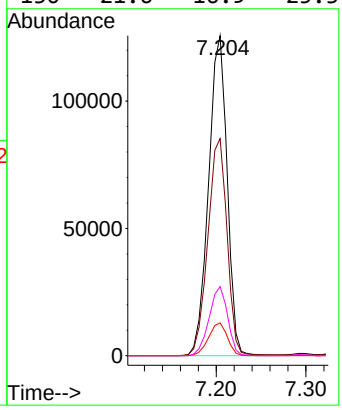




#19
n-Nitroso-di-n-propylamine
Concen: 45.415 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 70 Resp: 18077

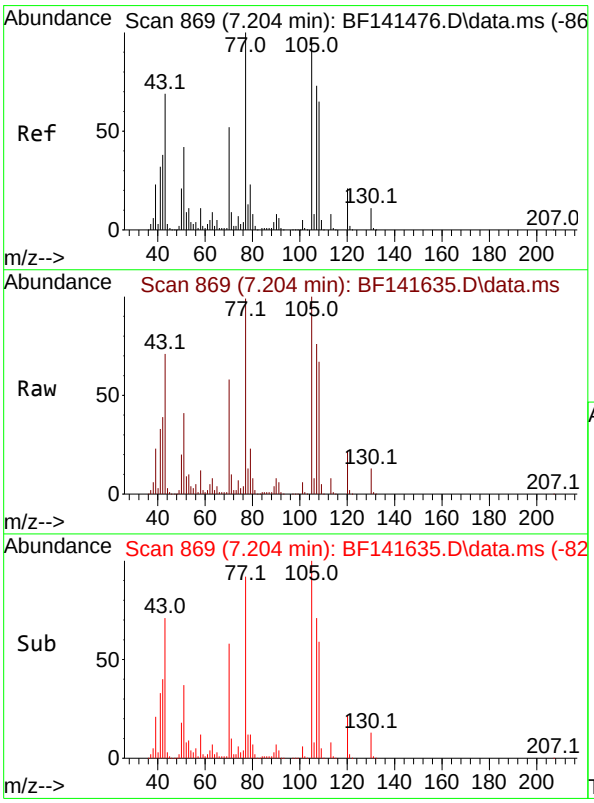
Ion	Ratio	Lower	Upper
70	100		
42	67.8	57.4	86.2
101	10.3	8.0	12.0
130	21.6	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

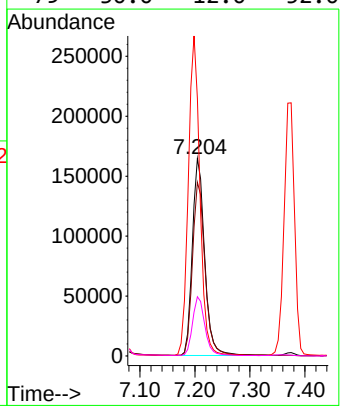
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

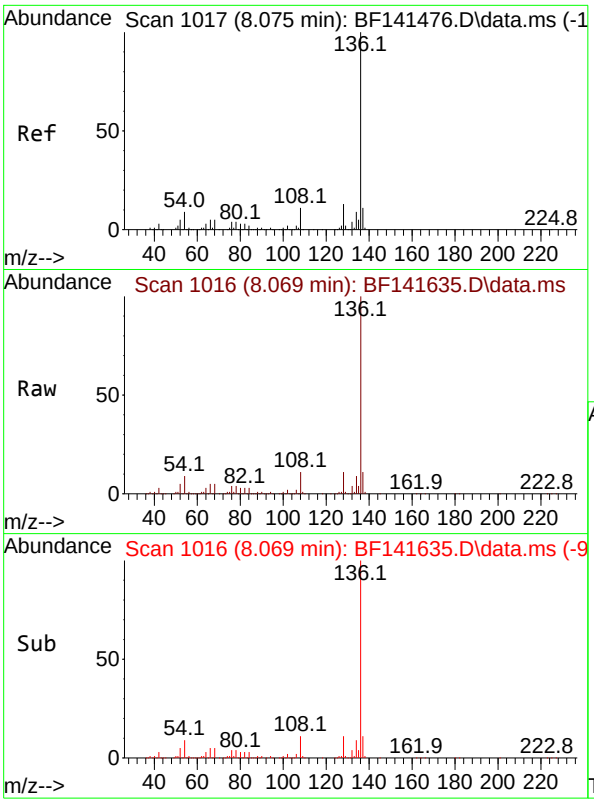


#20
3+4-Methylphenols
Concen: 45.214 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:107 Resp: 255815

Ion	Ratio	Lower	Upper
107	100		
108	88.0	68.5	108.5
77	130.4	116.5	156.5
79	30.0	12.0	52.0

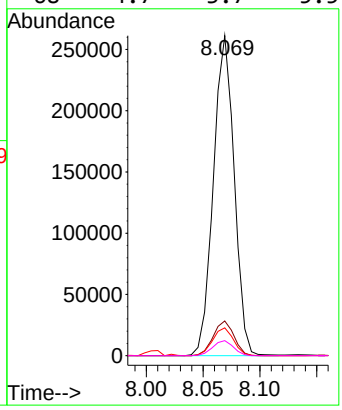




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:136 Resp: 33373

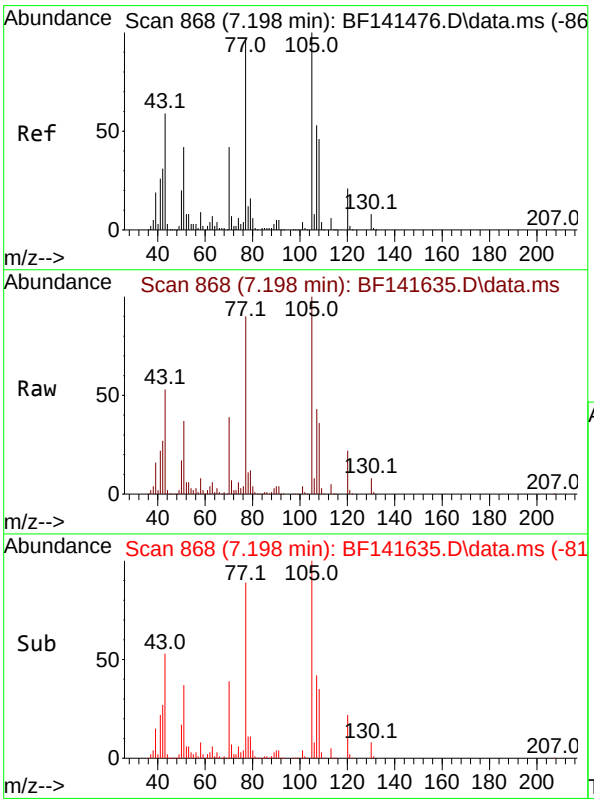
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.7	7.2	10.8
68	4.7	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

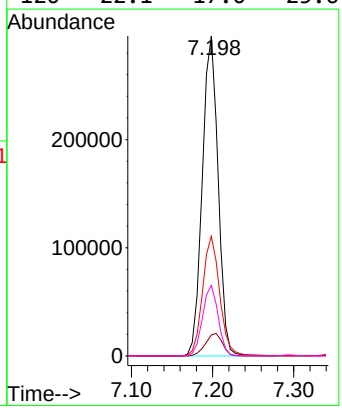
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

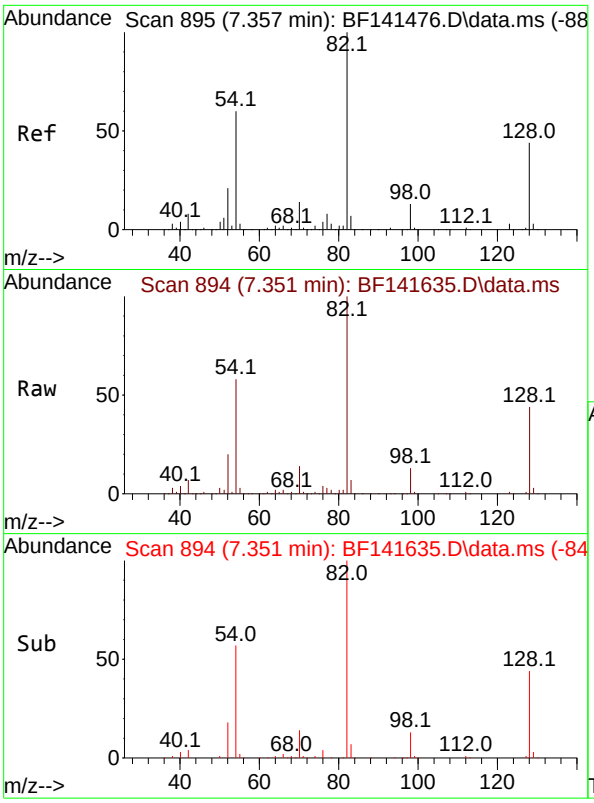


#22
Acetophenone
Concen: 48.215 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:105 Resp: 400267

Ion	Ratio	Lower	Upper
105	100		
71	6.5	5.7	8.5
51	37.4	33.7	50.5
120	22.1	17.0	25.6

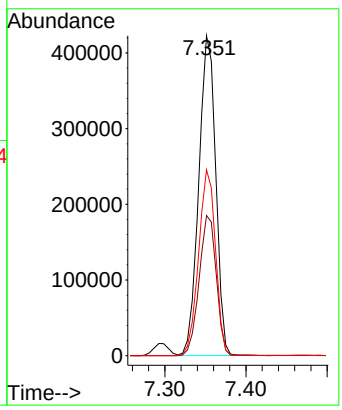




#23
Nitrobenzene-d5
Concen: 95.901 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 82 Resp: 61361

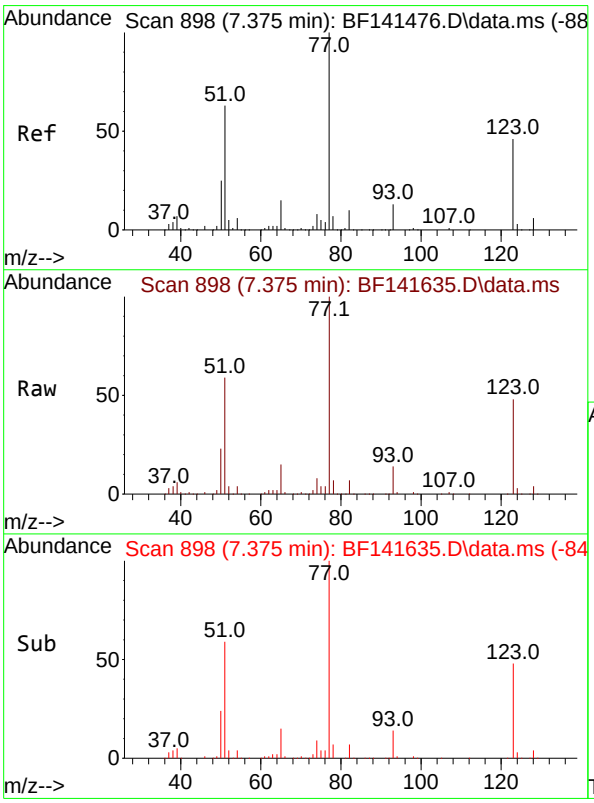
Ion	Ratio	Lower	Upper
82	100		
128	43.8	34.8	52.2
54	58.1	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

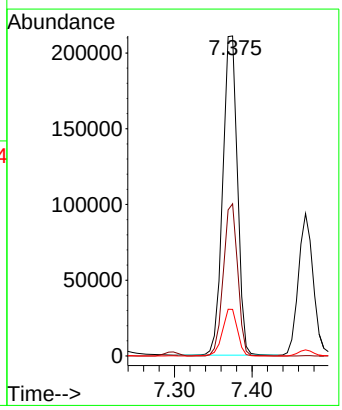
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

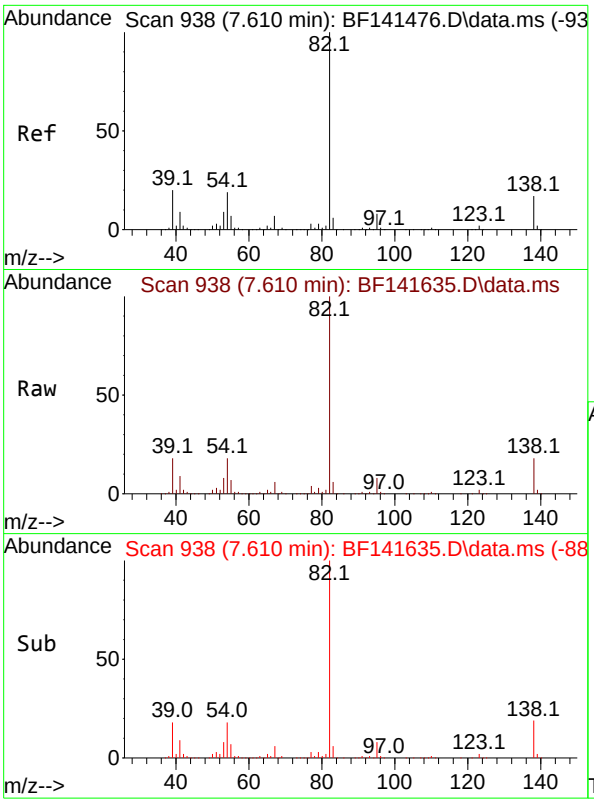


#24
Nitrobenzene
Concen: 44.493 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 77 Resp: 277605

Ion	Ratio	Lower	Upper
77	100		
123	47.6	36.9	55.3
65	14.6	11.9	17.9

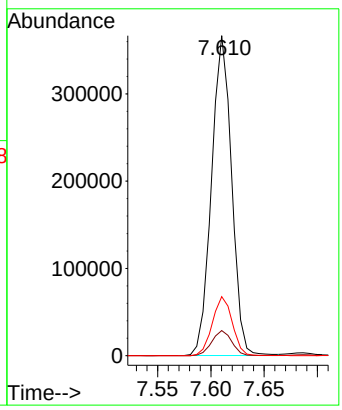




#25
Isophorone
Concen: 47.241 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 82 Resp: 48195

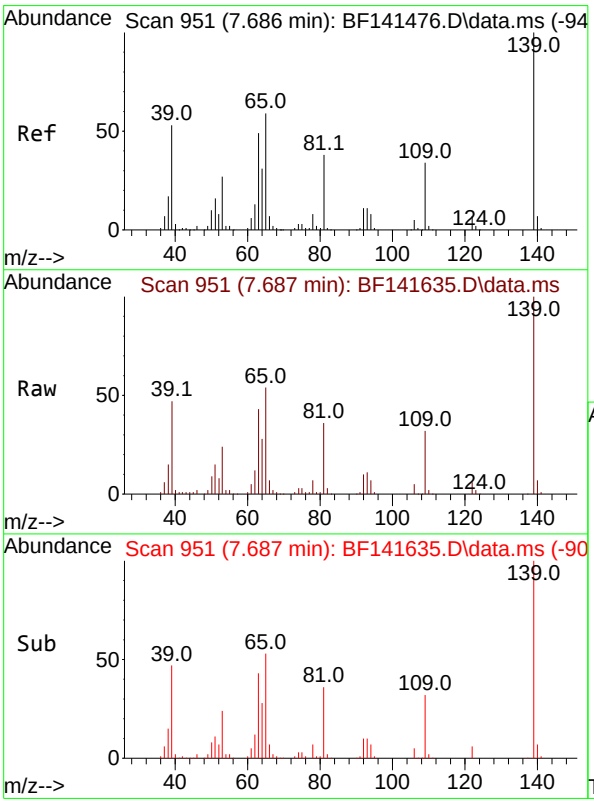
Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.4	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

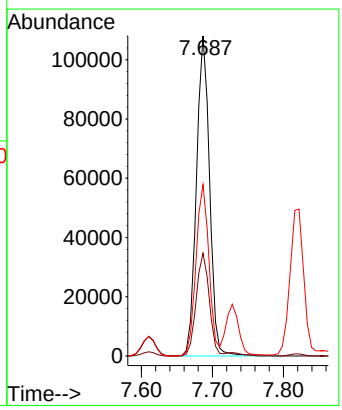
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

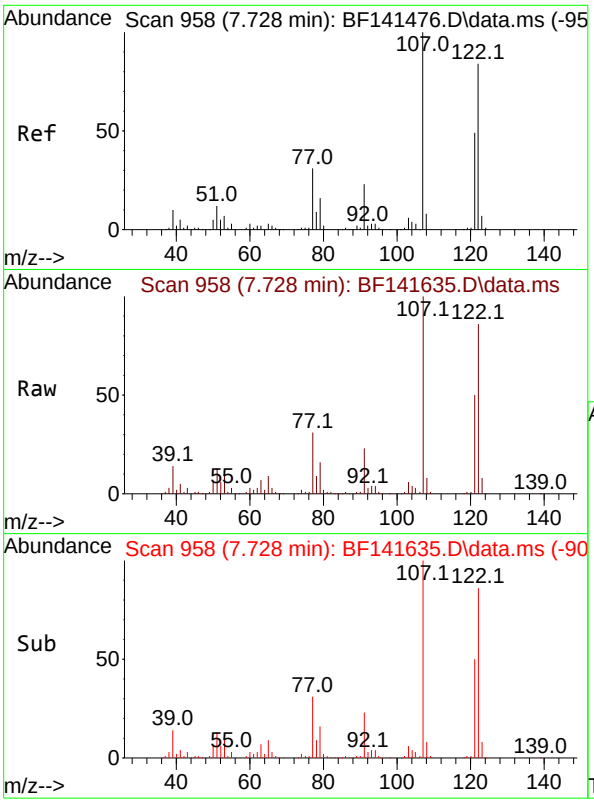


#26
2-Nitrophenol
Concen: 44.902 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:139 Resp: 139383

Ion	Ratio	Lower	Upper
139	100		
109	32.1	27.0	40.6
65	53.5	47.1	70.7

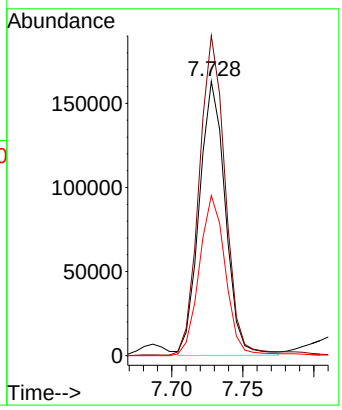




#27
2,4-Dimethylphenol
Concen: 57.126 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:122 Resp: 20715

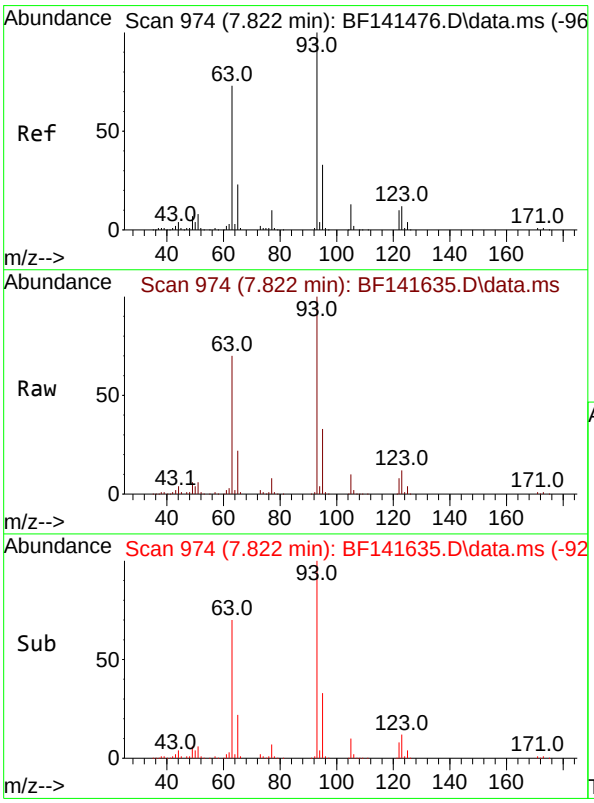
Ion	Ratio	Lower	Upper
122	100		
107	116.6	94.3	141.5
121	58.4	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

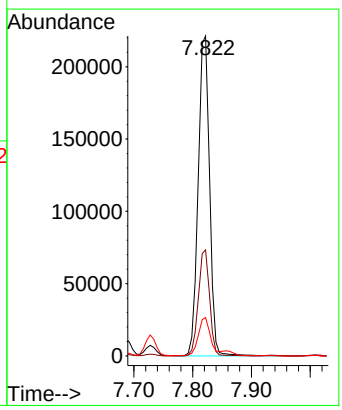
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

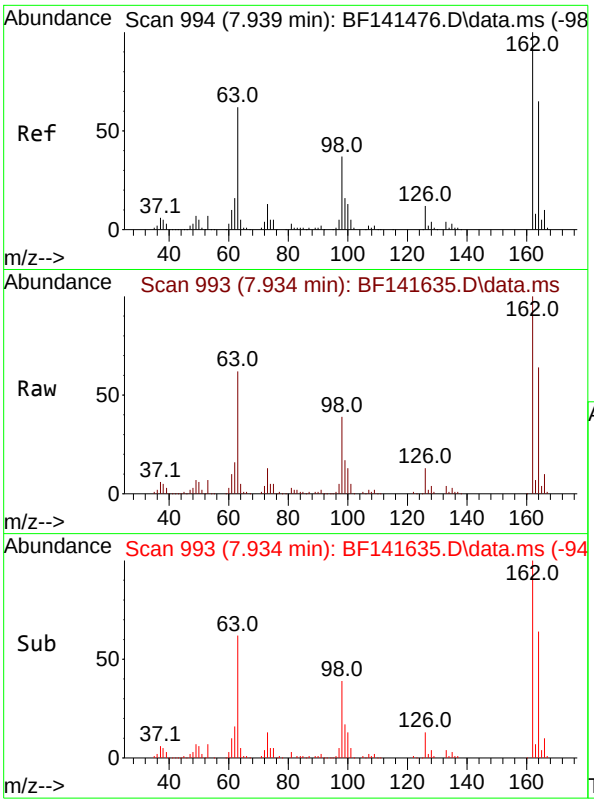


#28
bis(2-Chloroethoxy)methane
Concen: 45.475 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 93 Resp: 297285

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.1	39.1
123	12.0	9.5	14.3

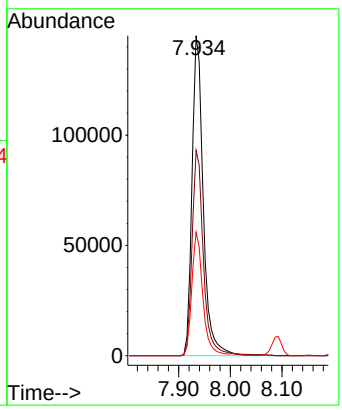




#29
2,4-Dichlorophenol
Concen: 44.857 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:162 Resp: 21978

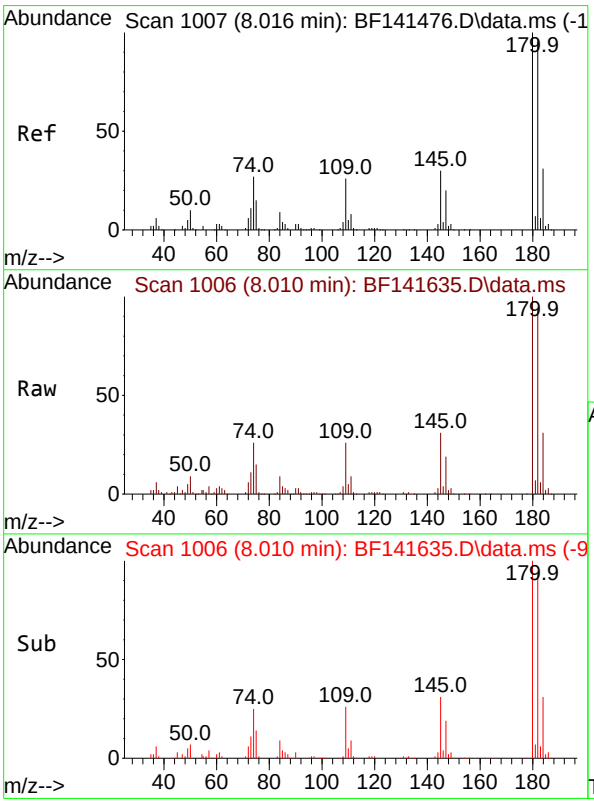
Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.6	84.6
98	38.6	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

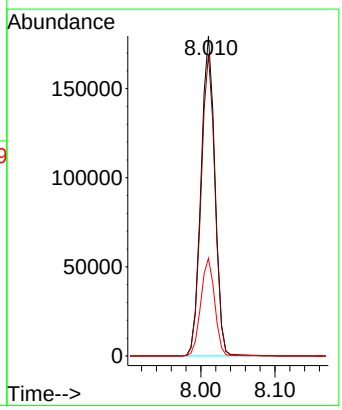
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

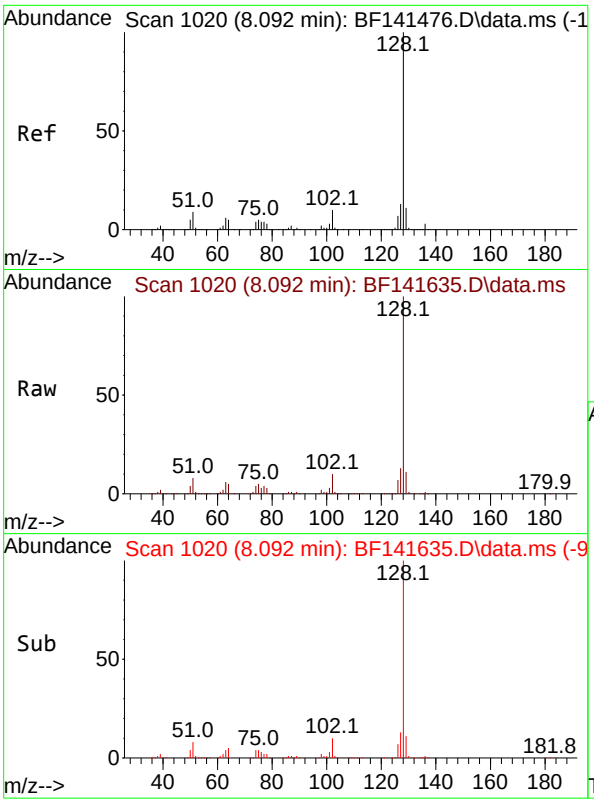


#30
1,2,4-Trichlorobenzene
Concen: 43.736 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:180 Resp: 233356

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
145	30.6	24.2	36.4

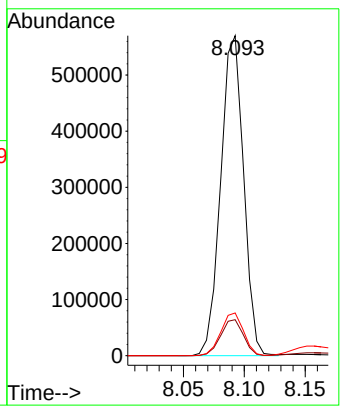




#31
Naphthalene
Concen: 42.968 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:128 Resp: 74642

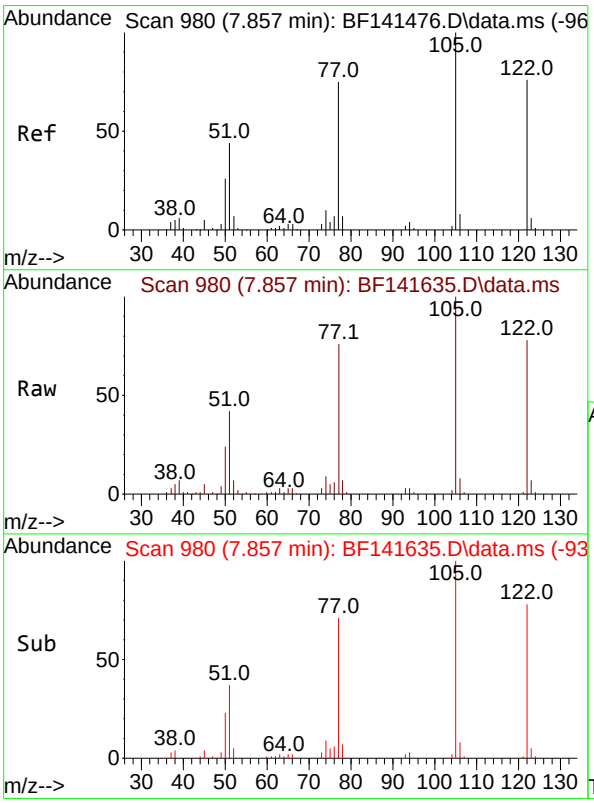
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

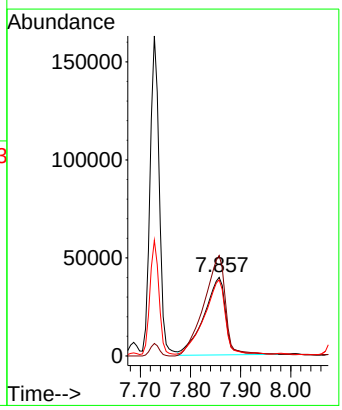
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

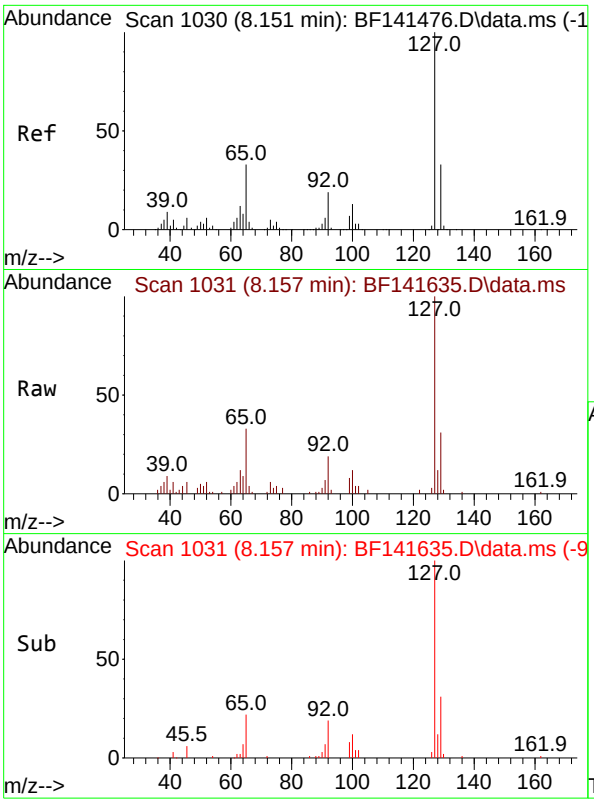


#32
Benzoic acid
Concen: 31.858 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:122 Resp: 120000

Ion	Ratio	Lower	Upper
122	100		
105	127.9	106.5	146.5
77	97.0	76.3	116.3

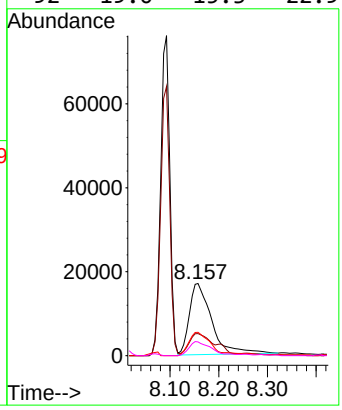




#33
4-Chloroaniline
Concen: 8.903 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:127 Resp: 5400

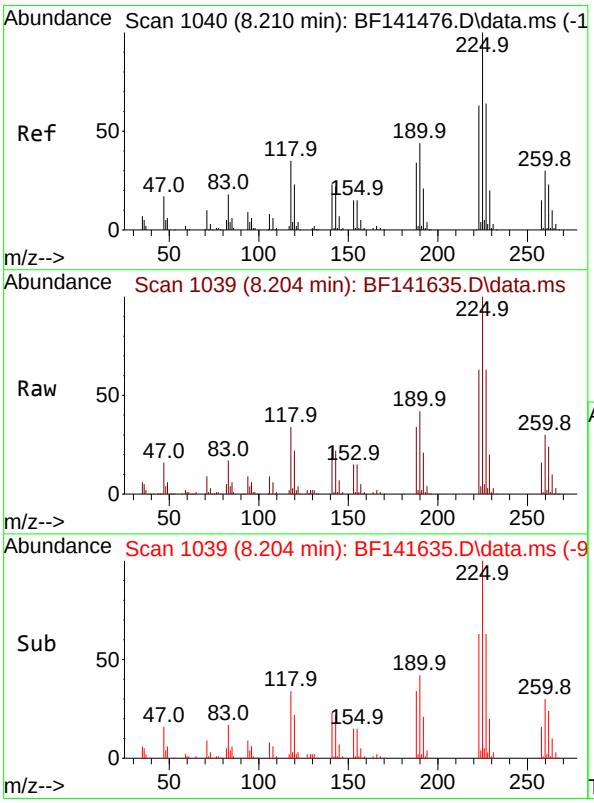
Ion	Ratio	Lower	Upper
127	100		
129	30.7	26.5	39.7
65	32.5	26.4	39.6
92	19.0	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

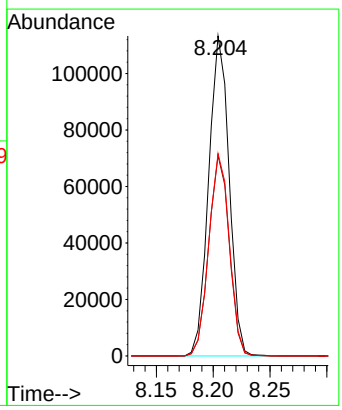
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

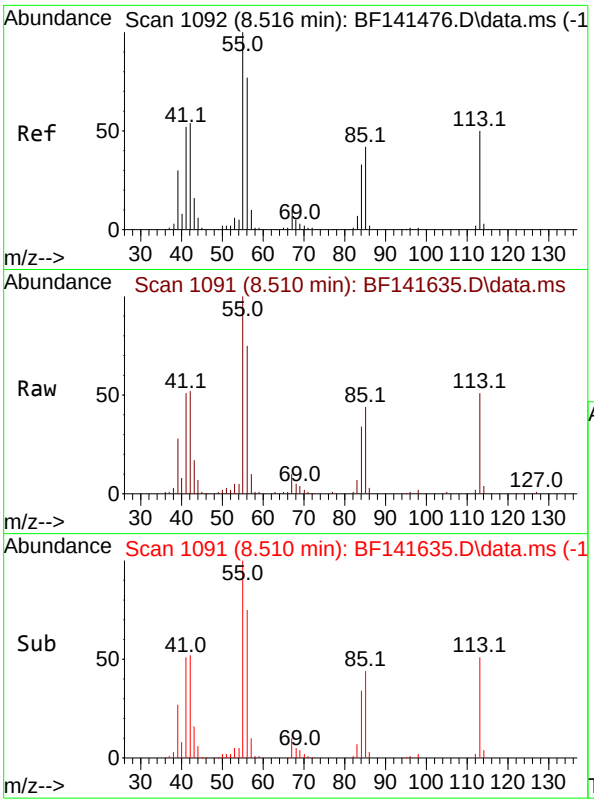


#34
Hexachlorobutadiene
Concen: 44.283 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:225 Resp: 141846

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	63.2	51.0	76.6

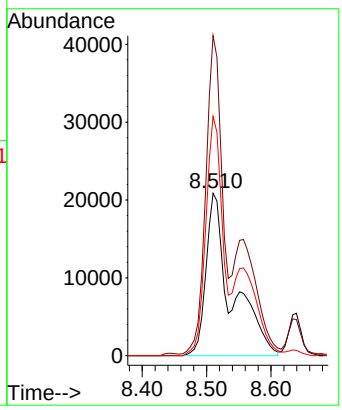




#35
Caprolactam
Concen: 38.862 ng m
RT: 8.510 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:113 Resp: 5797

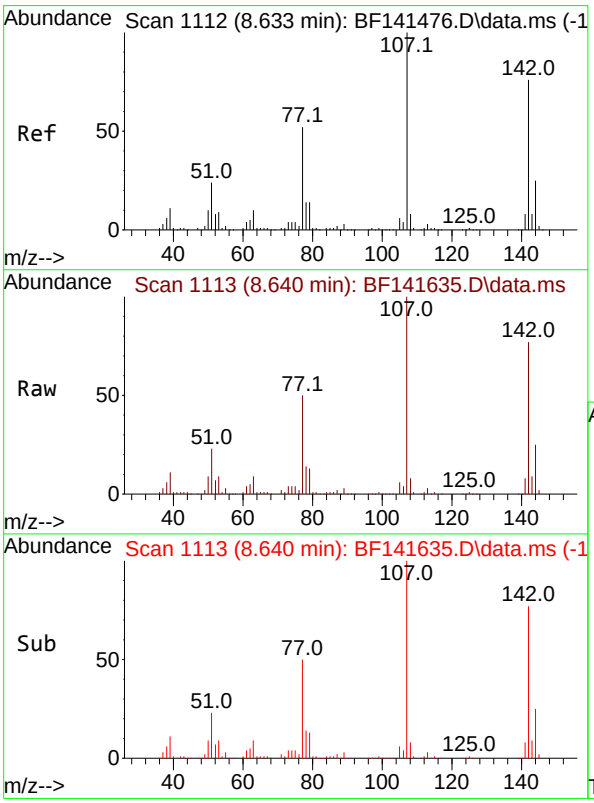
Ion	Ratio	Lower	Upper
113	100		
55	197.0	180.8	220.8
56	147.2	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

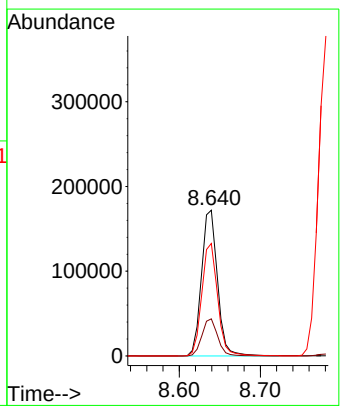
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

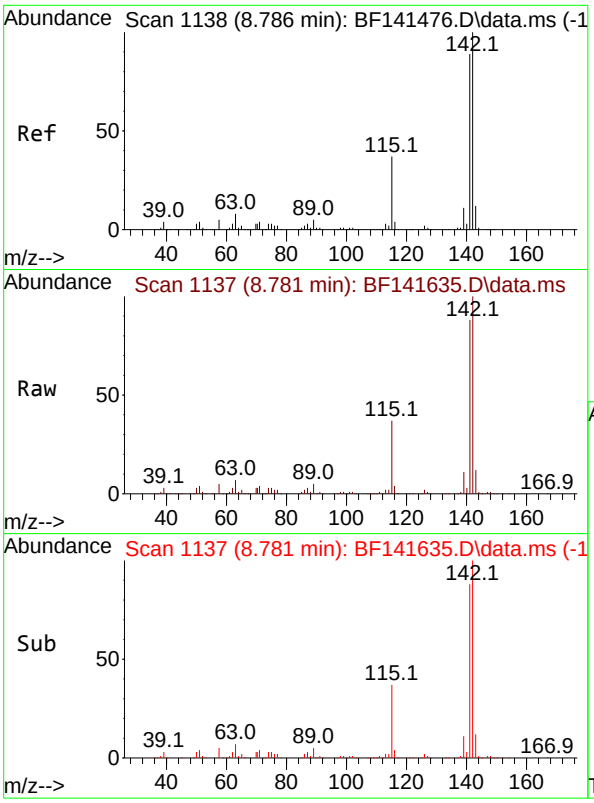


#36
4-Chloro-3-methylphenol
Concen: 43.331 ng
RT: 8.640 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:107 Resp: 235173

Ion	Ratio	Lower	Upper
107	100		
144	25.4	19.7	29.5
142	77.1	60.8	91.2





#37
2-Methylnaphthalene
Concen: 42.527 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

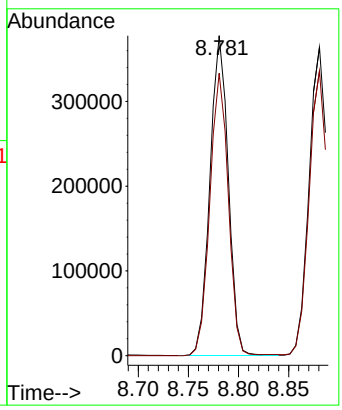
Tgt Ion:142 Resp: 48074

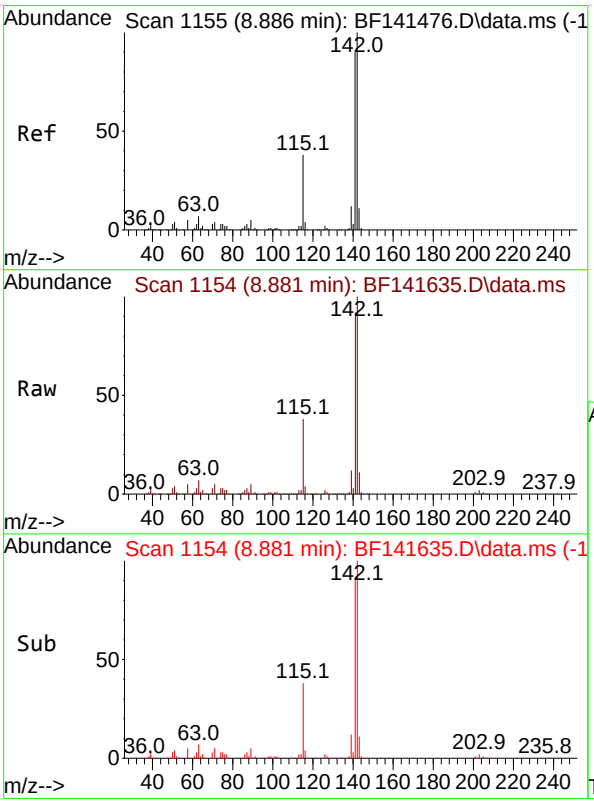
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

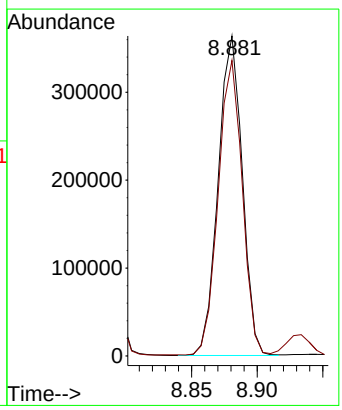


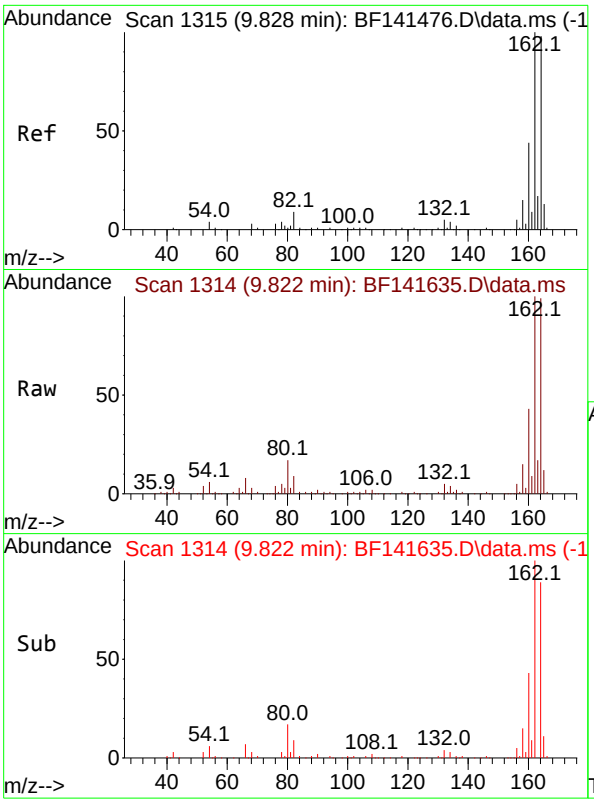


#38
1-Methylnaphthalene
Concen: 42.374 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:142 Resp: 463938

Ion	Ratio	Lower	Upper
142	100		
141	92.3	72.1	108.1

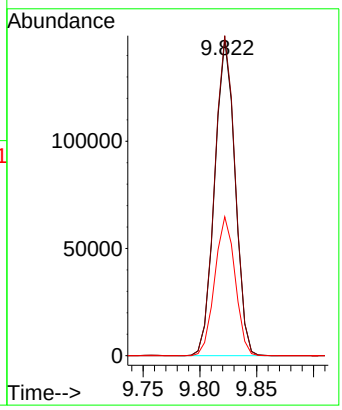




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:164 Resp: 18362

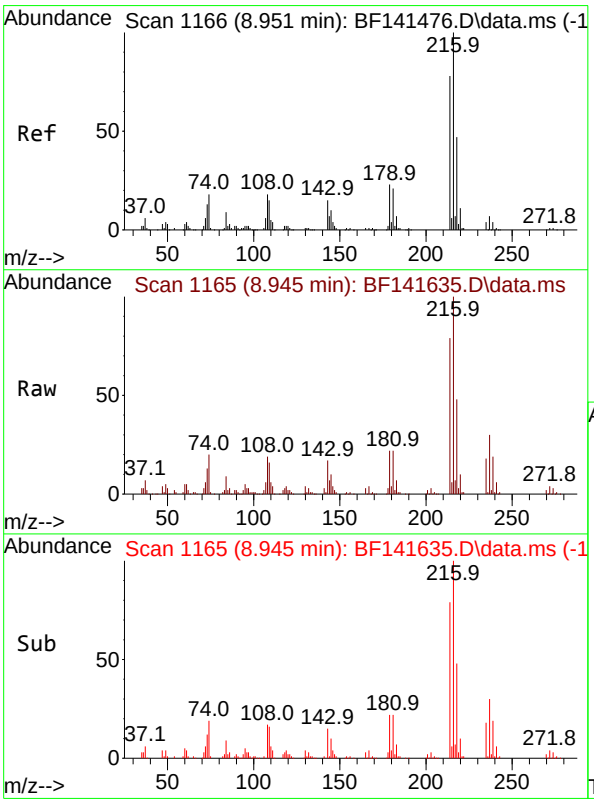
Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.3	121.9
160	44.0	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

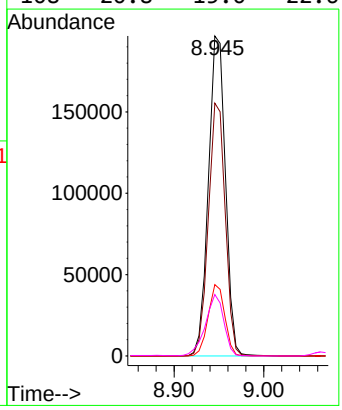
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

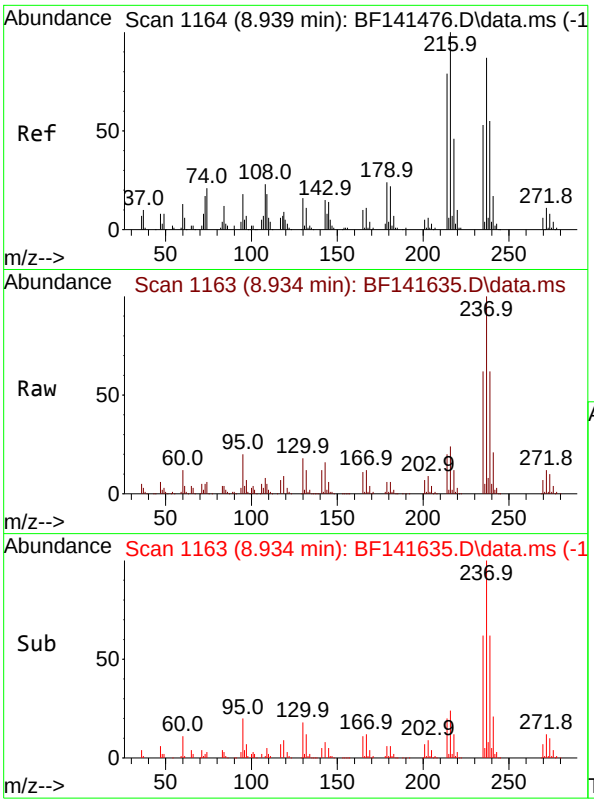


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.806 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:216 Resp: 259283

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.3	93.5
179	21.8	18.0	27.0
108	20.8	15.0	22.6

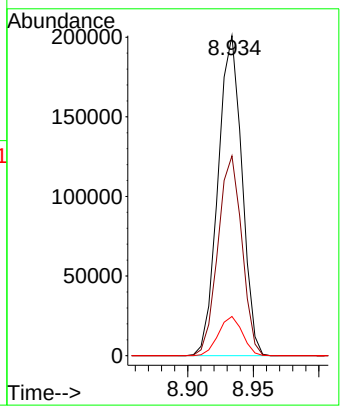




#41
Hexachlorocyclopentadiene
Concen: 144.126 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:237 Resp: 25466

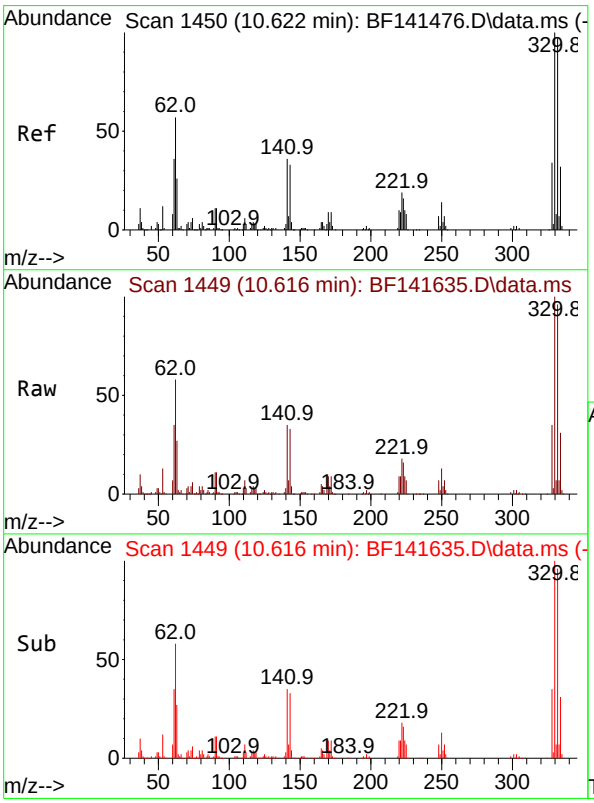
Ion	Ratio	Lower	Upper
237	100		
235	62.5	41.4	81.4
272	12.3	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

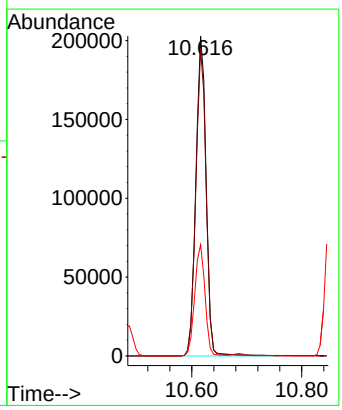
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

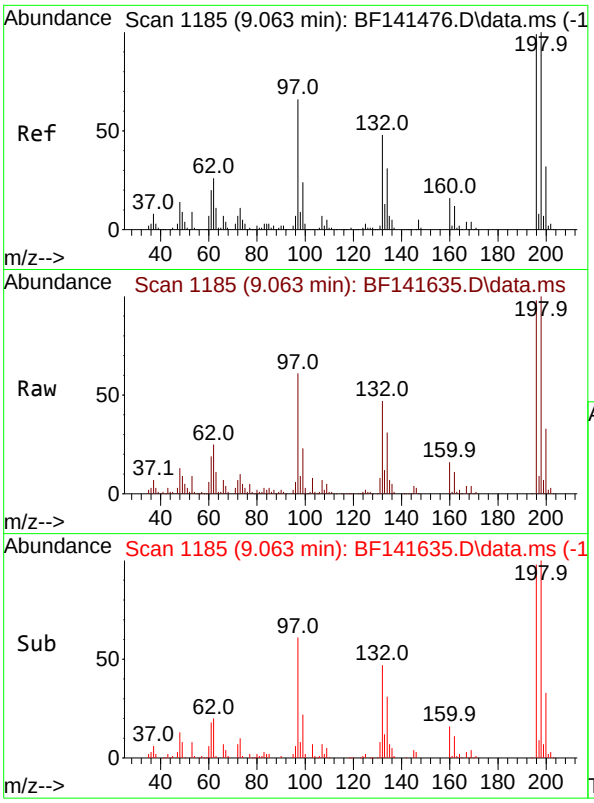


#42
2,4,6-Tribromophenol
Concen: 143.067 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:330 Resp: 263901

Ion	Ratio	Lower	Upper
330	100		
332	96.1	78.5	117.7
141	34.8	31.0	46.4

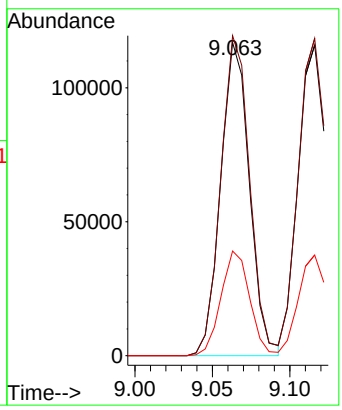




#43
2,4,6-Trichlorophenol
Concen: 43.956 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:196 Resp: 15092

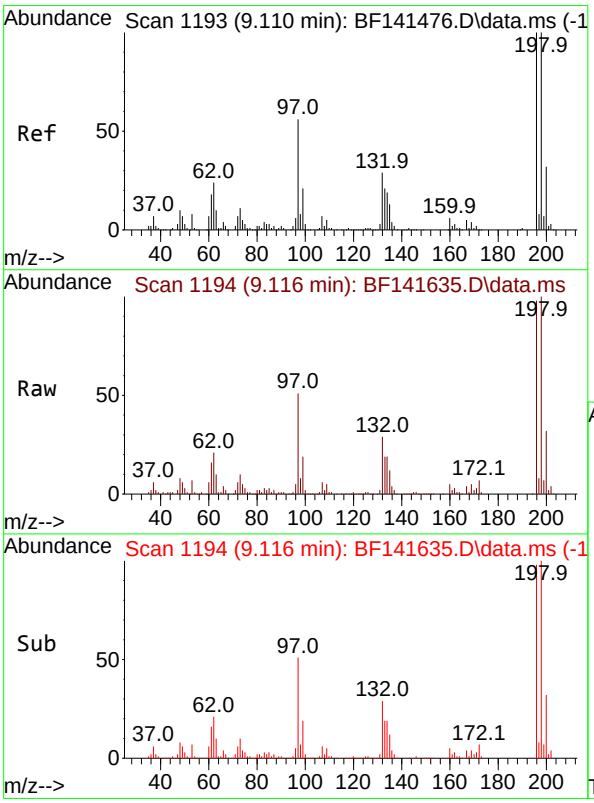
Ion	Ratio	Lower	Upper
196	100		
198	102.2	80.6	121.0
200	33.4	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

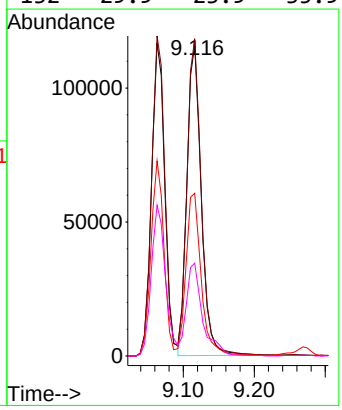
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

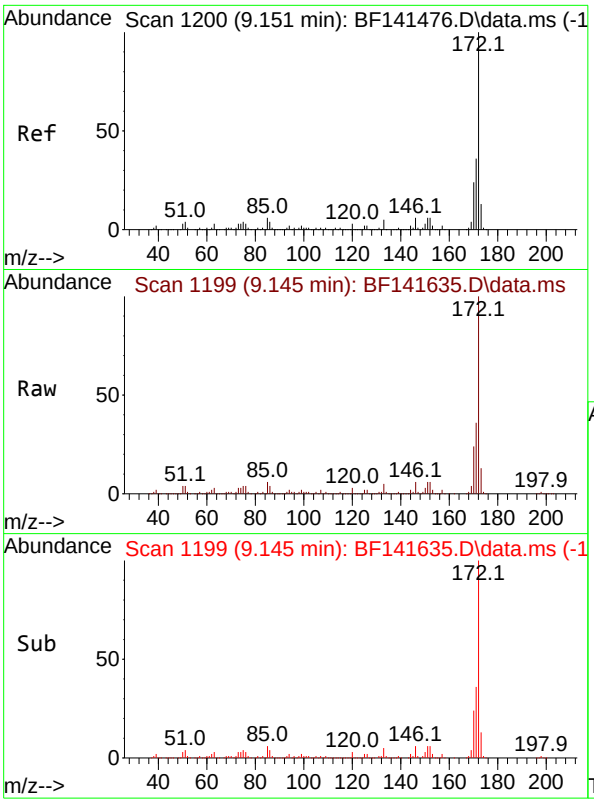


#44
2,4,5-Trichlorophenol
Concen: 43.826 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:196 Resp: 163085

Ion	Ratio	Lower	Upper
196	100		
198	102.1	79.8	119.8
97	52.4	44.8	67.2
132	29.9	23.9	35.9

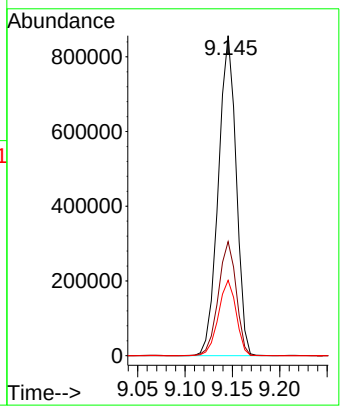




#45
2-Fluorobiphenyl
Concen: 94.311 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:172 Resp: 112406

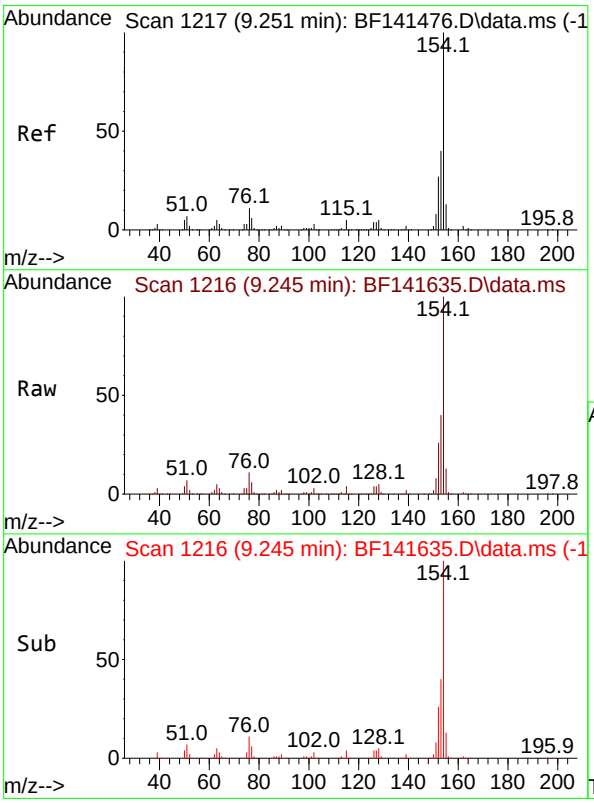
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.6	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

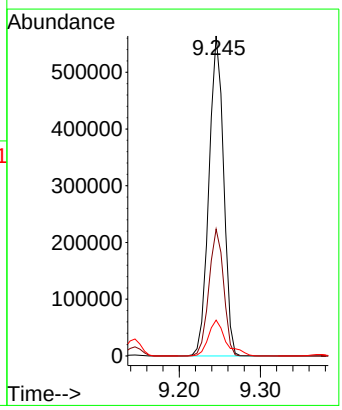
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

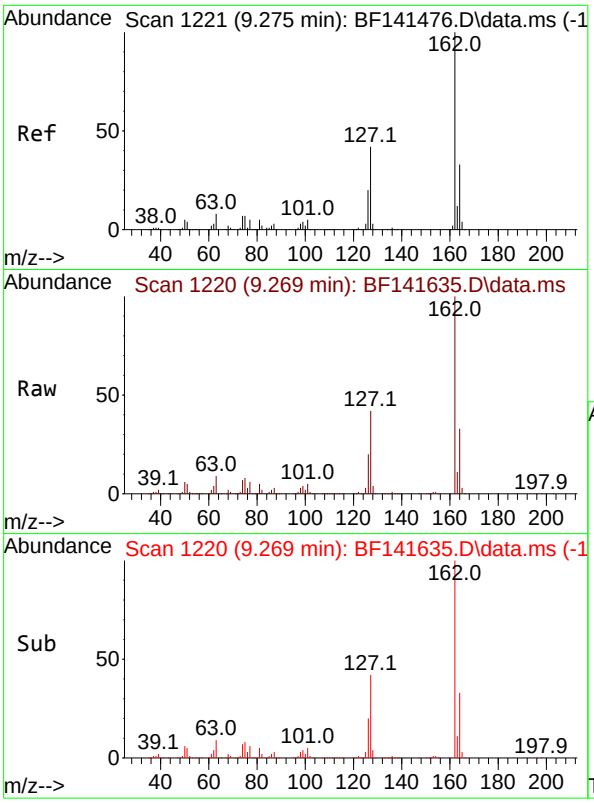


#46
1,1'-Biphenyl
Concen: 49.589 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:154 Resp: 705956

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.4	60.4
76	11.2	0.0	30.8

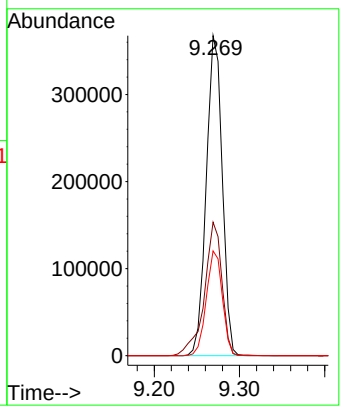




#47
2-Chloronaphthalene
Concen: 45.423 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:162 Resp: 47818

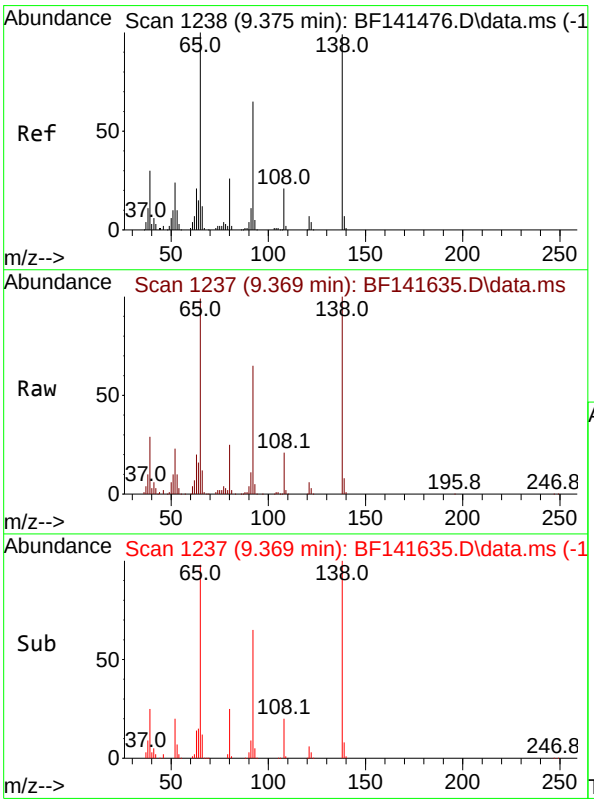
Ion	Ratio	Lower	Upper
162	100		
127	41.7	34.1	51.1
164	32.8	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

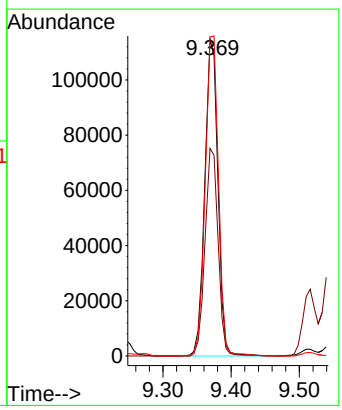
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

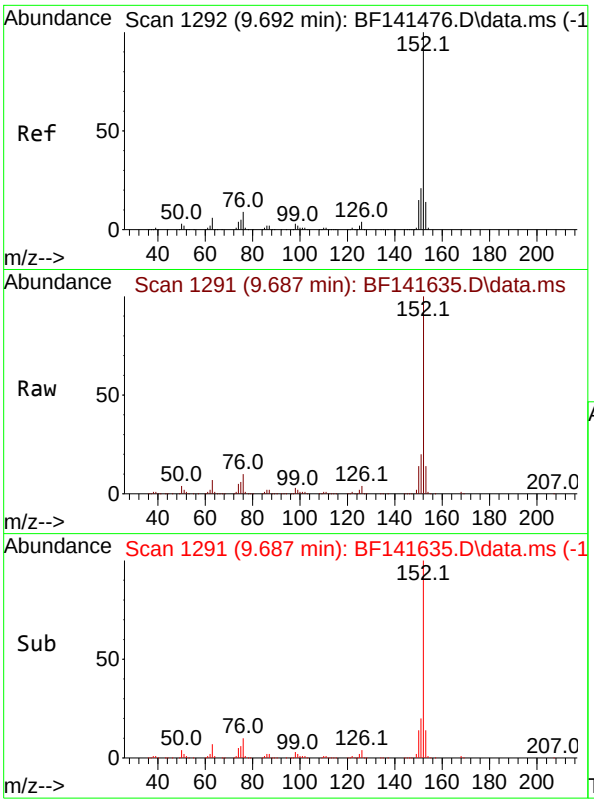


#48
2-Nitroaniline
Concen: 43.466 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 65 Resp: 153564

Ion	Ratio	Lower	Upper
65	100		
92	65.5	52.2	78.2
138	100.7	79.5	119.3

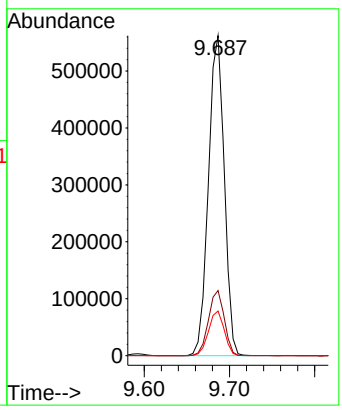




#49
Acenaphthylene
Concen: 46.329 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:152 Resp: 72542

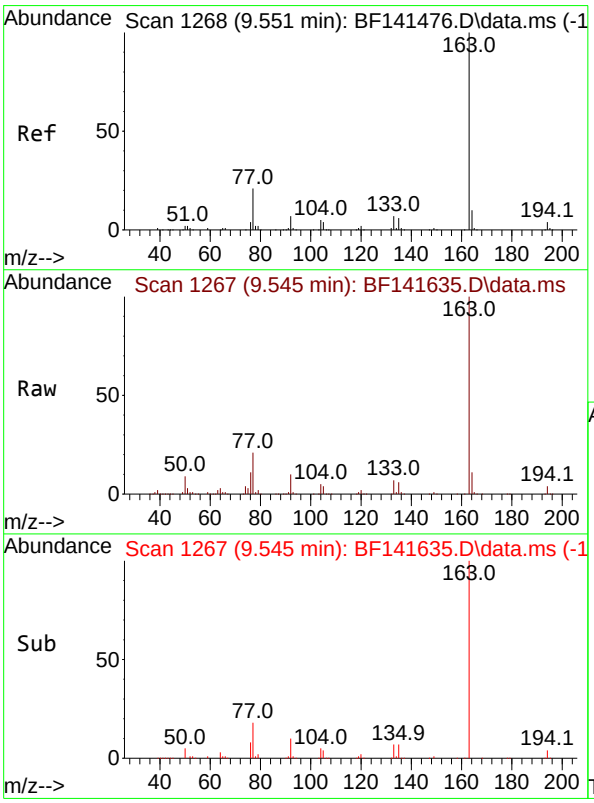
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6
153	14.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

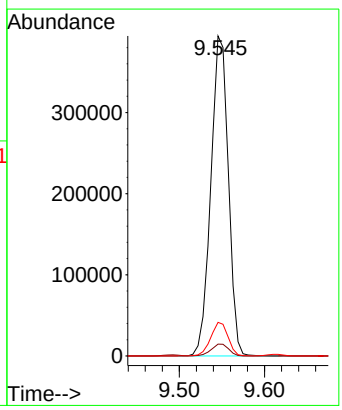
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

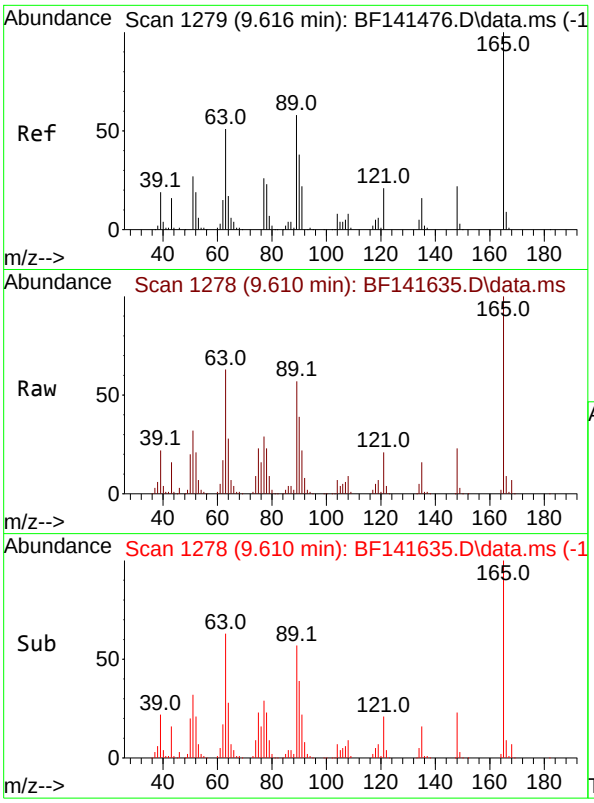


#50
Dimethylphthalate
Concen: 45.120 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:163 Resp: 562461

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	10.5	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 45.651 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

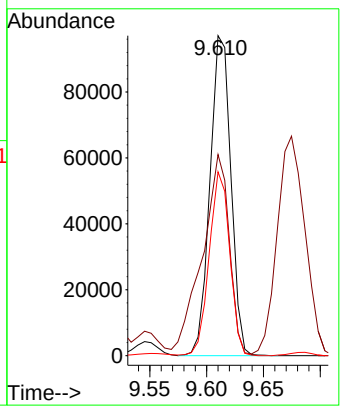
Tgt Ion:165 Resp: 12440

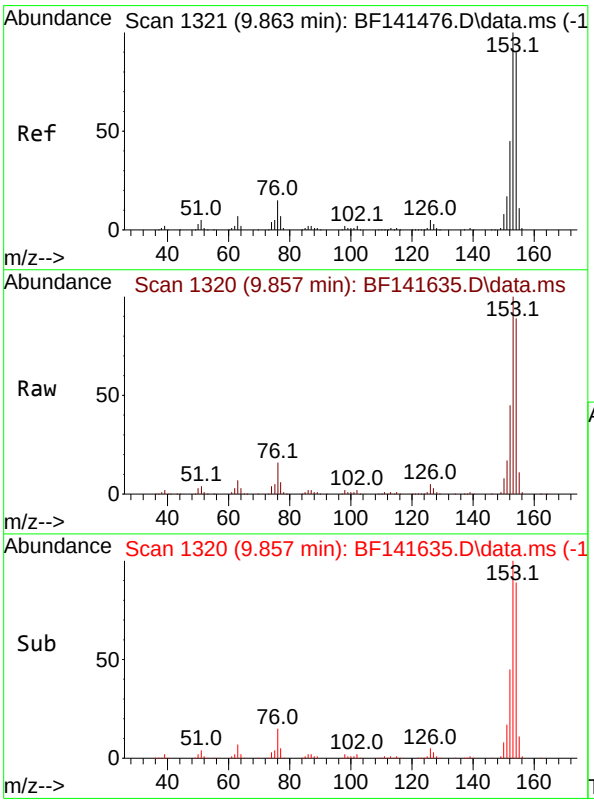
Ion	Ratio	Lower	Upper
165	100		
63	62.8	49.4	74.0
89	57.5	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

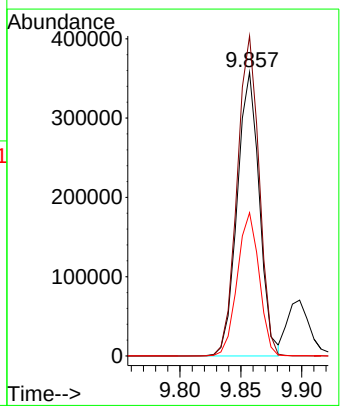


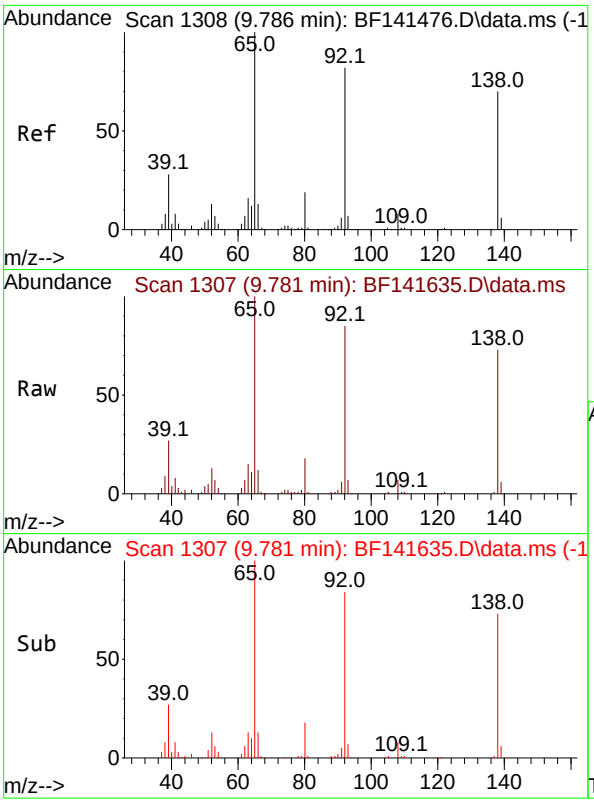


#52
Acenaphthene
Concen: 43.127 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:154 Resp: 453985

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.2	133.8
152	50.5	39.8	59.8





#53
3-Nitroaniline
Concen: 17.951 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

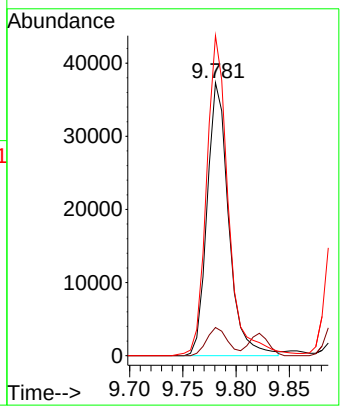
Tgt Ion:138 Resp: 5265

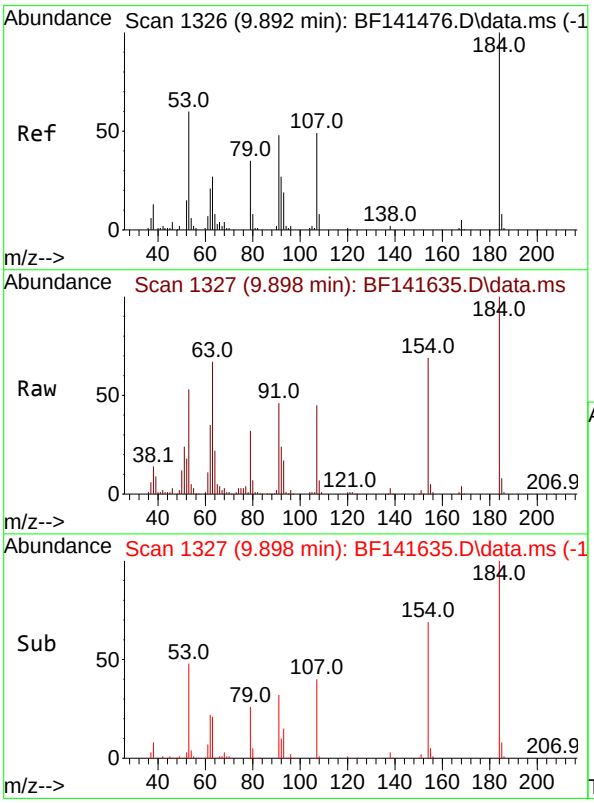
Ion	Ratio	Lower	Upper
138	100		
108	10.3	9.0	13.4
92	117.3	93.7	140.5

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

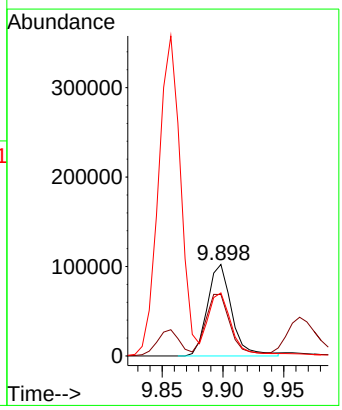


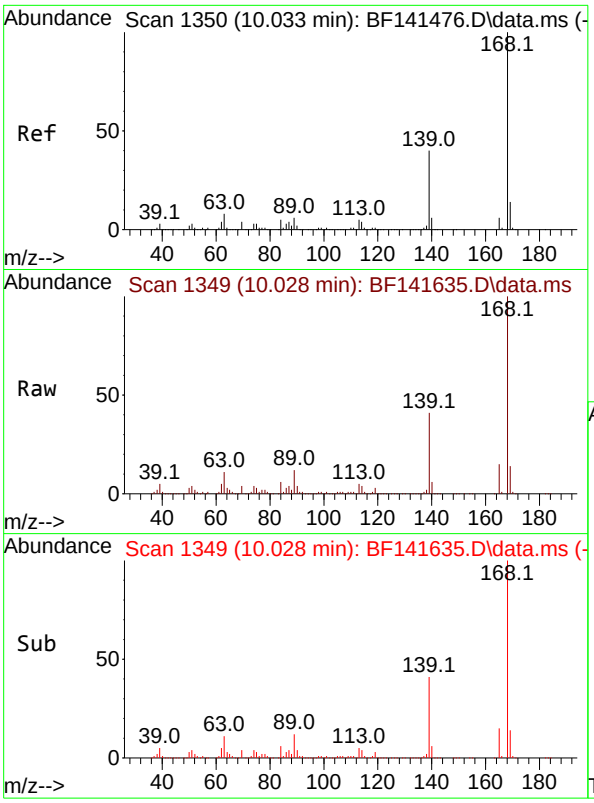


#54
2,4-Dinitrophenol
Concen: 87.571 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:184 Resp: 141831

Ion	Ratio	Lower	Upper
184	100		
63	67.1	61.0	91.6
154	68.9	59.9	89.9

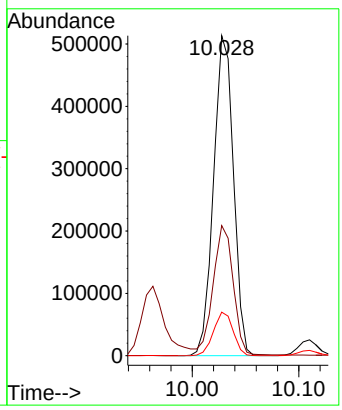




#55
Dibenzofuran
Concen: 42.998 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:168 Resp: 66437

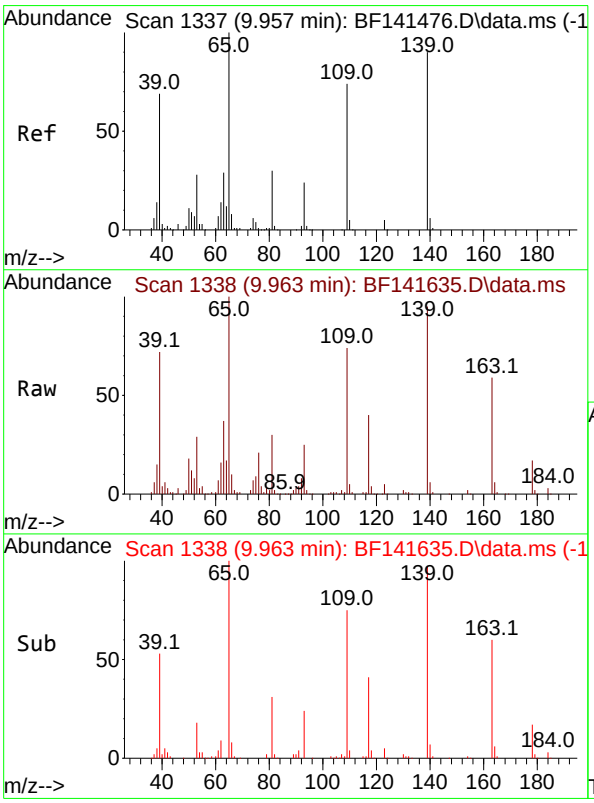
Ion	Ratio	Lower	Upper
168	100		
139	40.7	32.7	49.1
169	13.6	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

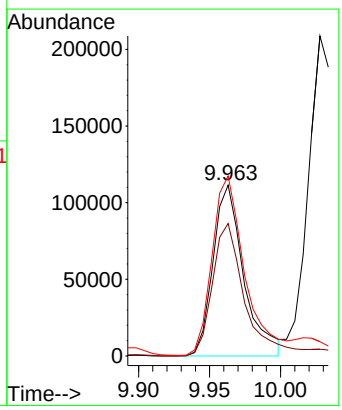
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

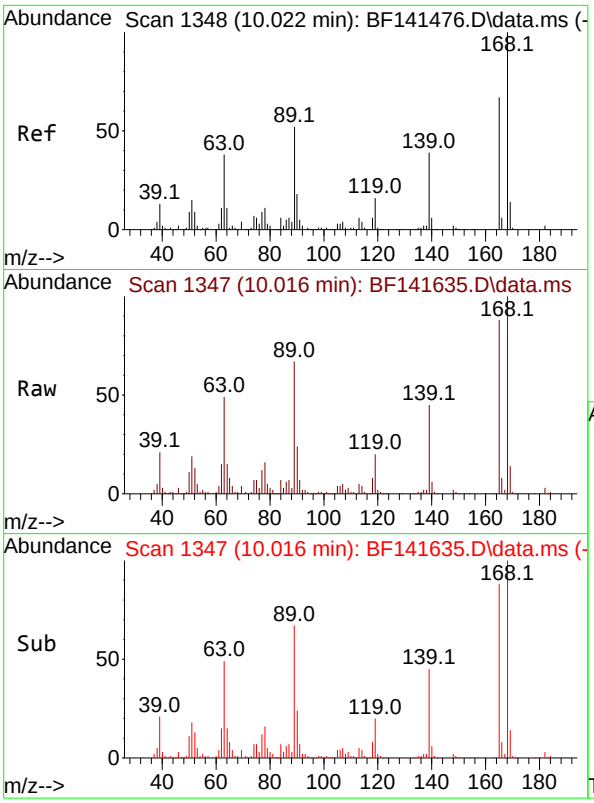


#56
4-Nitrophenol
Concen: 77.157 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:139 Resp: 167993

Ion	Ratio	Lower	Upper
139	100		
109	77.5	62.0	102.0
65	105.4	91.2	131.2

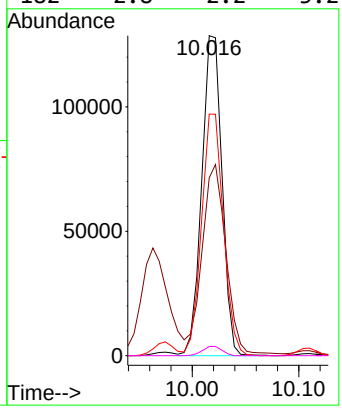




#57
2,4-Dinitrotoluene
Concen: 46.887 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:165 Resp: 17009

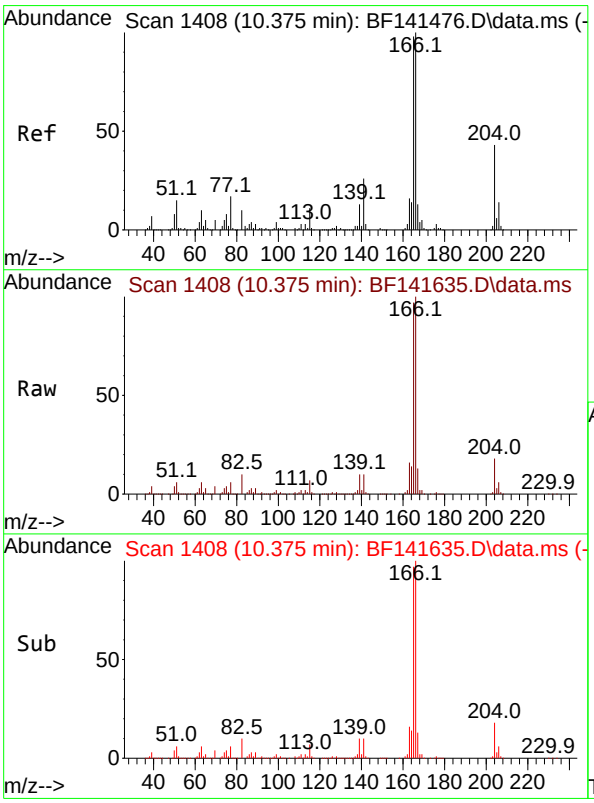
Ion	Ratio	Lower	Upper
165	100		
63	55.6	46.4	69.6
89	75.5	61.8	92.6
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

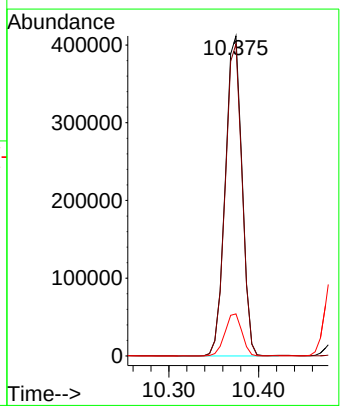
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

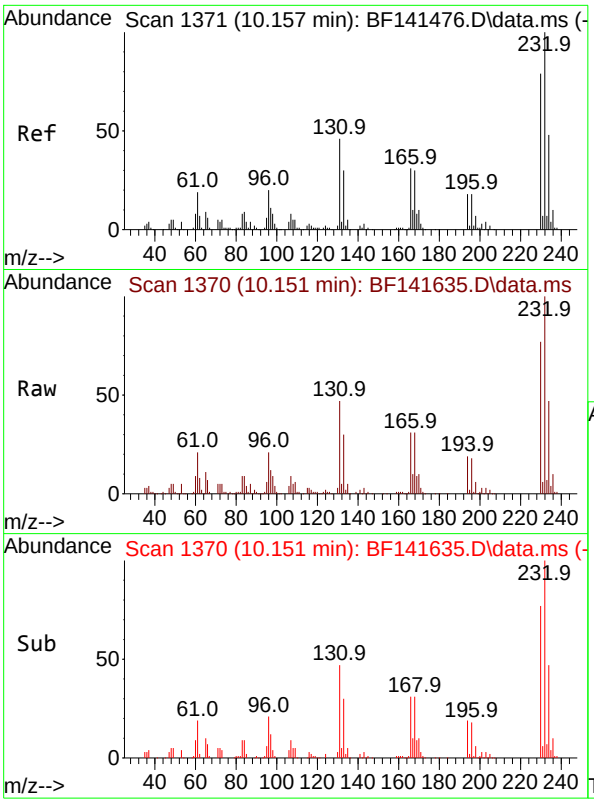


#58
Fluorene
Concen: 44.581 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:166 Resp: 532609

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.2	117.2
167	13.2	10.7	16.1

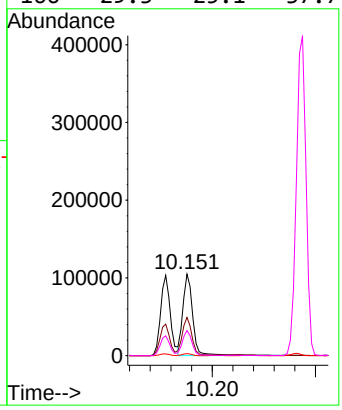




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.249 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:232 Resp: 13855

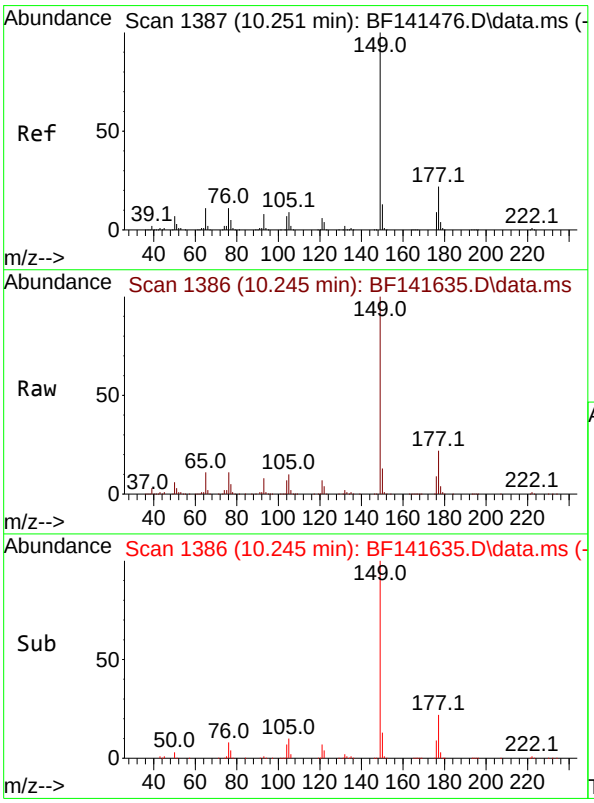
Ion	Ratio	Lower	Upper
232	100		
131	47.1	39.2	58.8
130	2.4	2.1	3.1
166	29.3	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

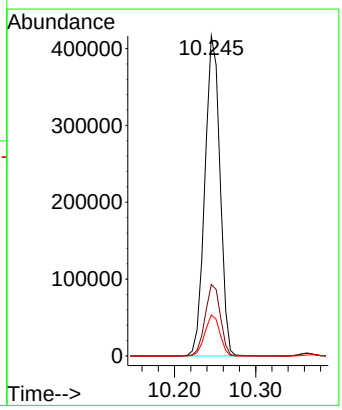
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

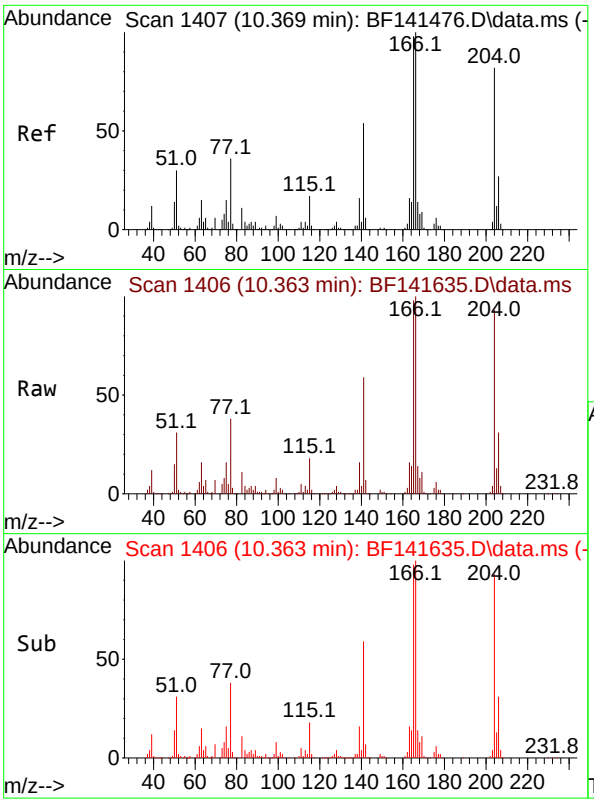


#60
Diethylphthalate
Concen: 43.763 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 536744

Ion	Ratio	Lower	Upper
149	100		
177	22.3	17.8	26.6
150	12.8	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 44.318 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

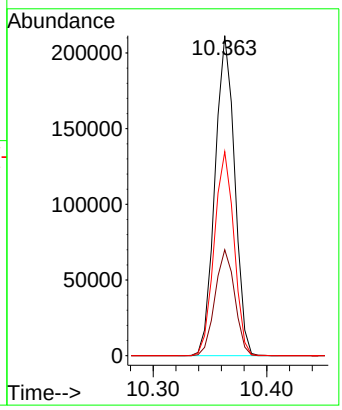
Tgt Ion:204 Resp: 25471

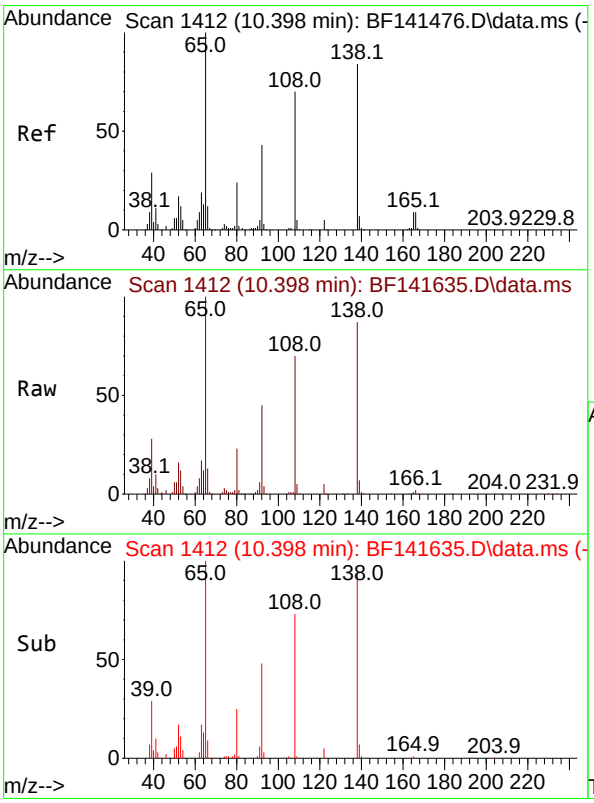
Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.6	40.0
141	63.7	51.9	77.9

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

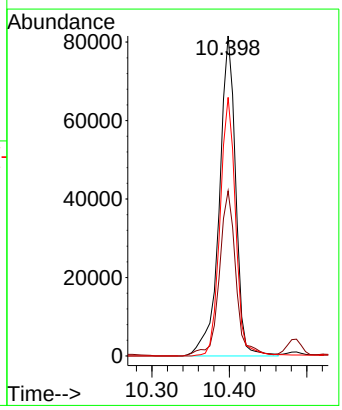


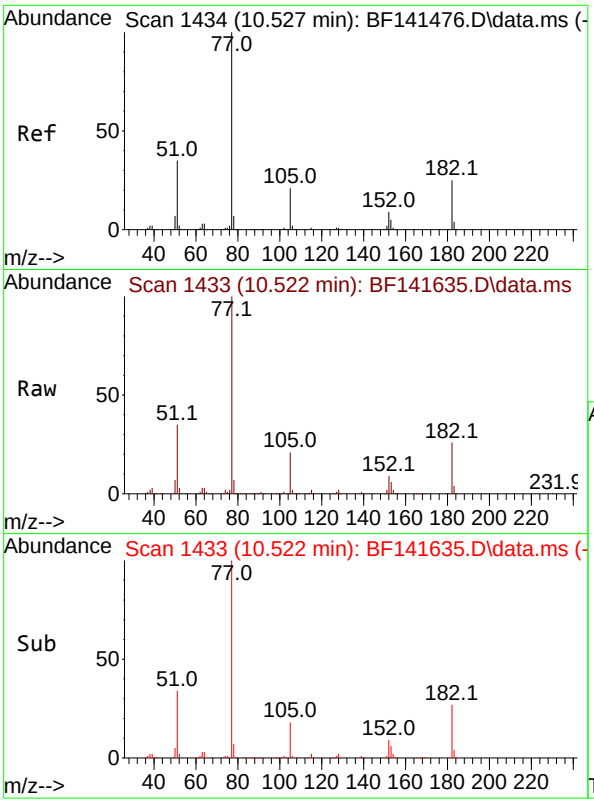


#62
4-Nitroaniline
Concen: 40.299 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:138 Resp: 120020

Ion	Ratio	Lower	Upper
138	100		
92	51.6	31.3	71.3
108	80.8	63.7	103.7

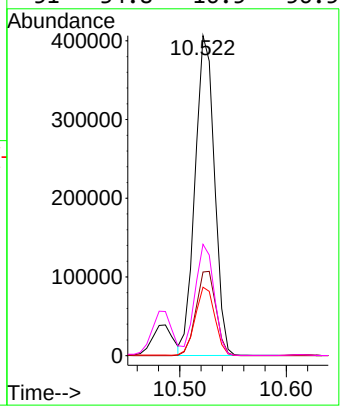




#63
Azobenzene
Concen: 42.291 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 77 Resp: 51564

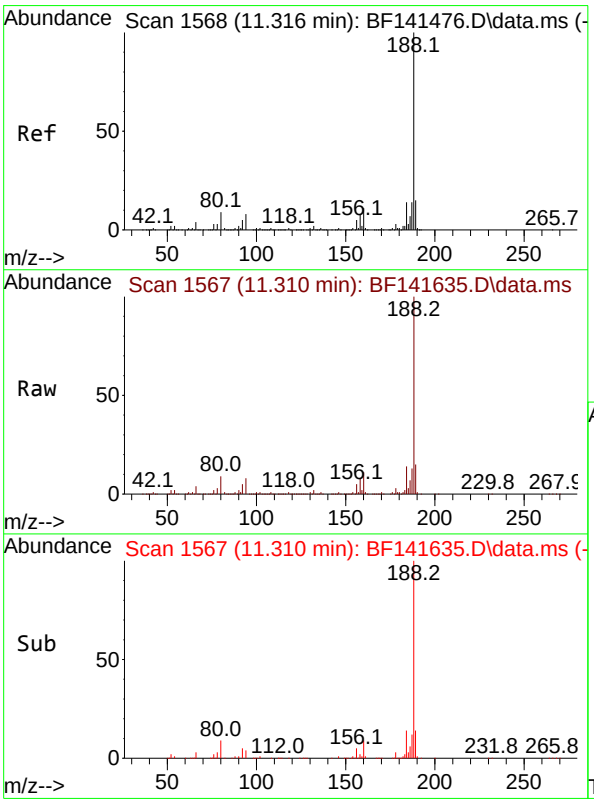
Ion	Ratio	Lower	Upper
77	100		
182	26.1	4.7	44.7
105	21.4	0.4	40.4
51	34.8	16.5	56.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

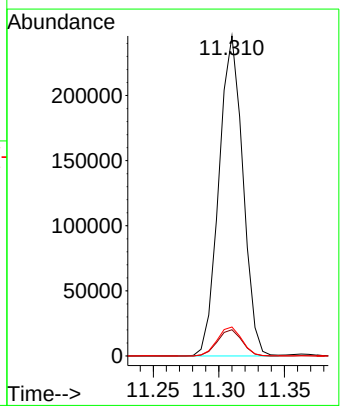
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

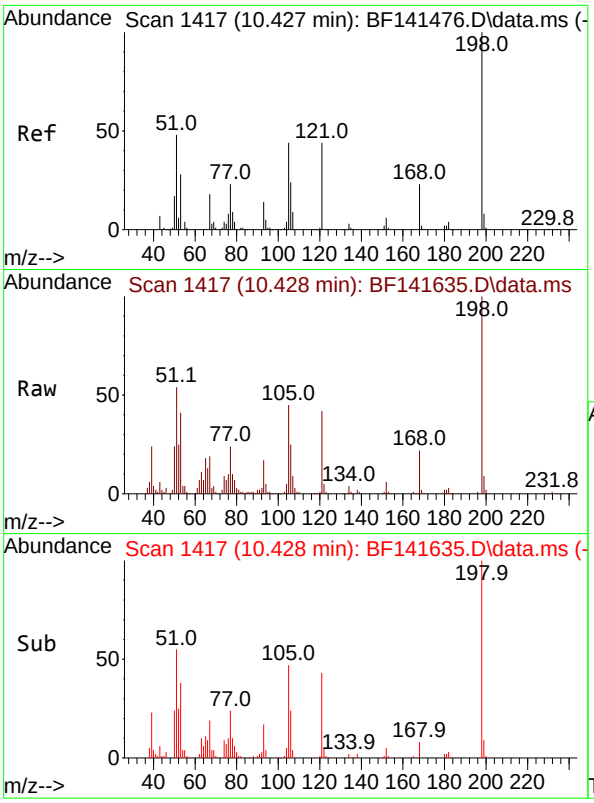


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:188 Resp: 312520

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.6	10.0
80	9.0	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 45.586 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

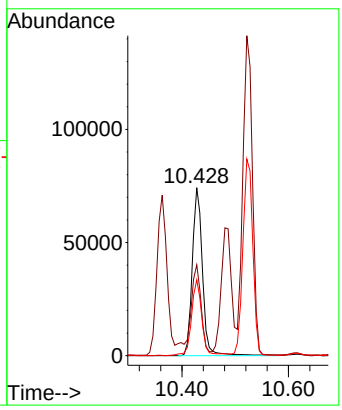
Tgt Ion:198 Resp: 9896

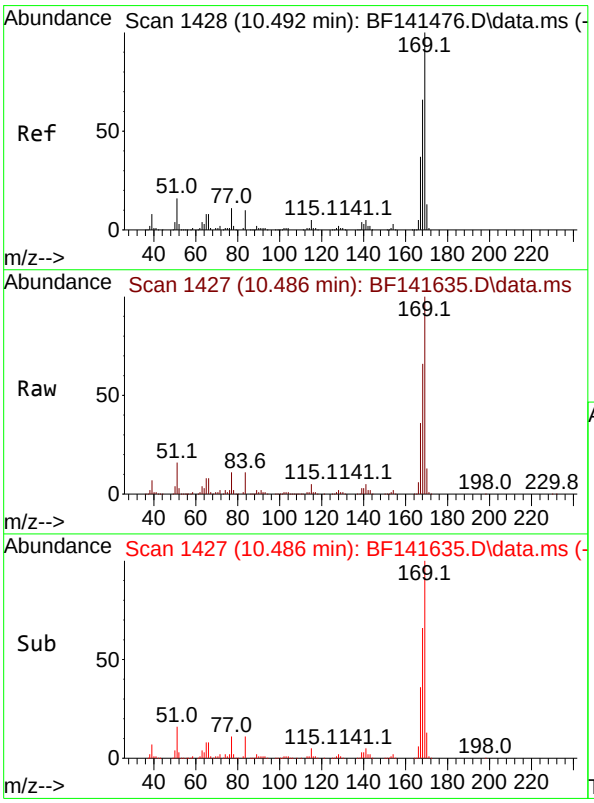
Ion	Ratio	Lower	Upper
198	100		
51	54.1	37.4	77.4
105	45.2	25.2	65.2

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

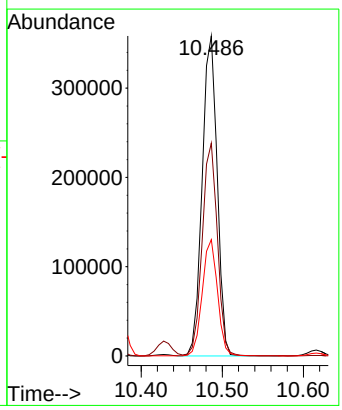


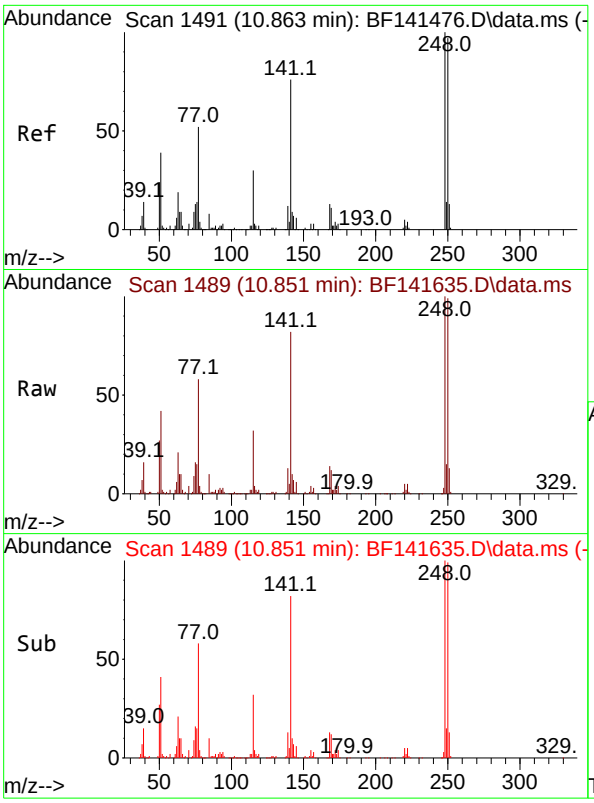


#66
n-Nitrosodiphenylamine
Concen: 45.935 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:169 Resp: 459536

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.3	79.9
167	36.3	29.4	44.2





#67
4-Bromophenyl-phenylether
Concen: 45.411 ng
RT: 10.851 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

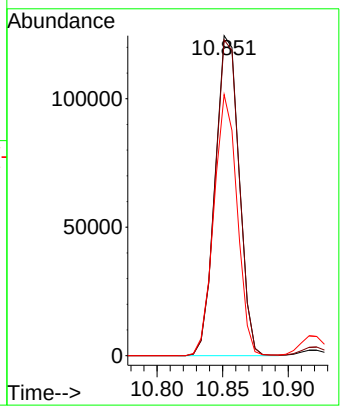
Tgt Ion:248 Resp: 15861

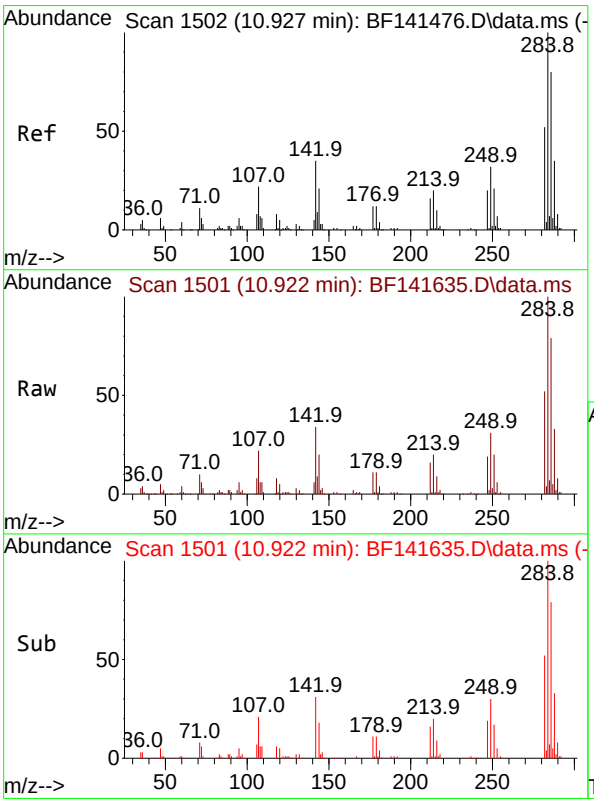
Ion	Ratio	Lower	Upper
248	100		
250	98.7	77.8	116.6
141	81.6	60.6	90.8

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

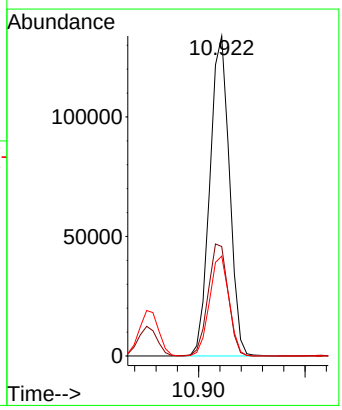


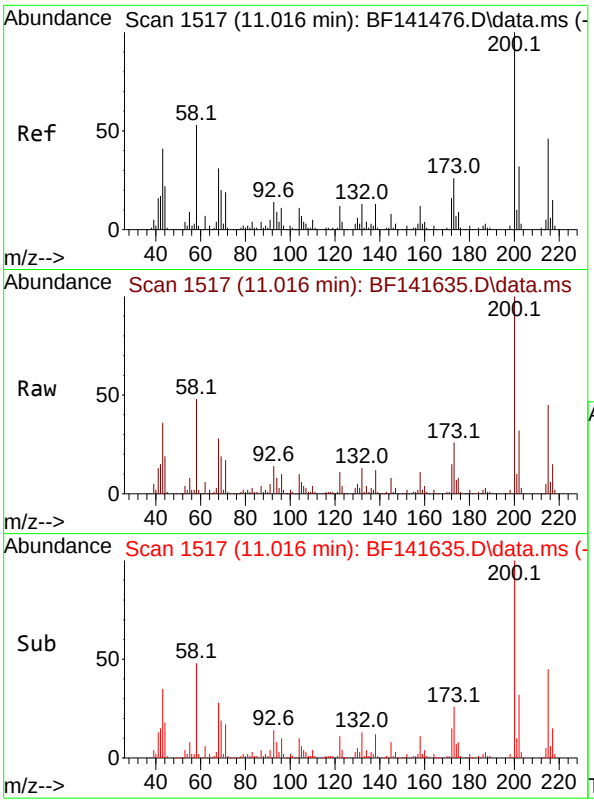


#68
Hexachlorobenzene
Concen: 47.480 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:284 Resp: 170769

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	31.2	25.8	38.8

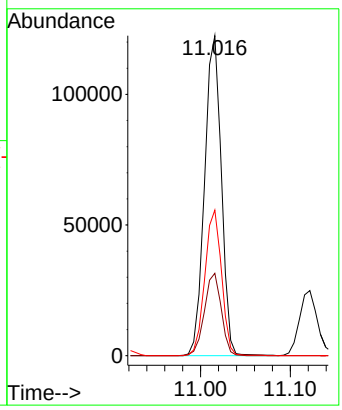




#69
Atrazine
Concen: 52.917 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:200 Resp: 15881

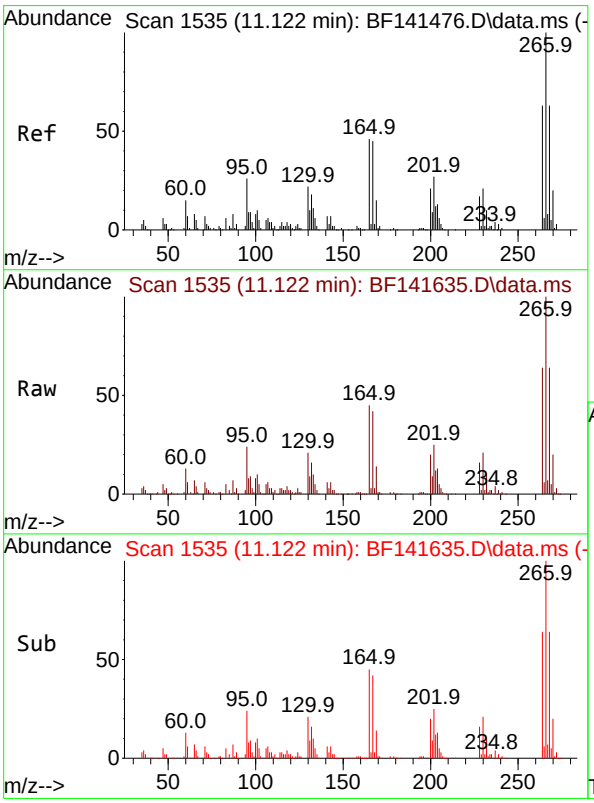
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.9	45.9
215	45.5	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

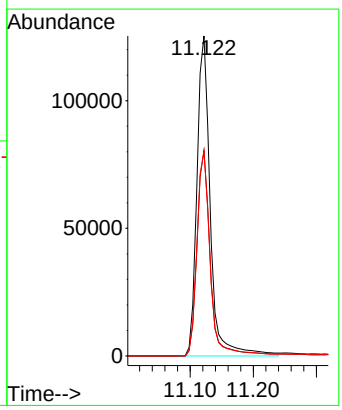
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

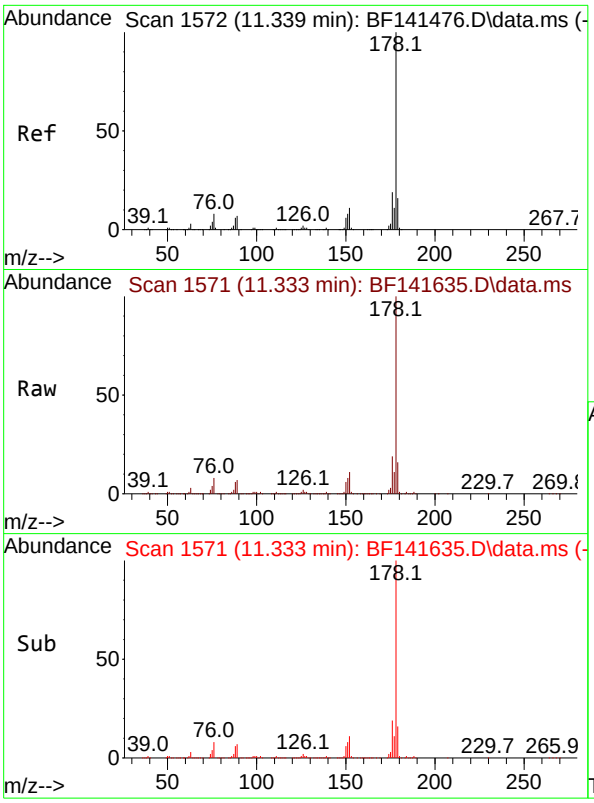


#70
Pentachlorophenol
Concen: 80.079 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:266 Resp: 184164

Ion	Ratio	Lower	Upper
266	100		
268	64.1	50.1	75.1
264	64.1	50.1	75.1

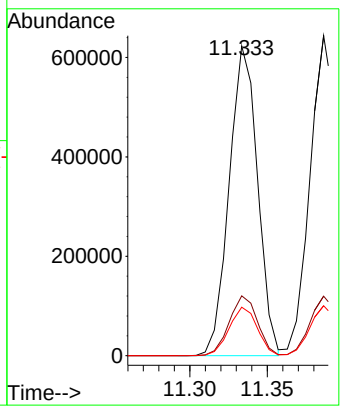




#71
Phenanthrene
Concen: 46.197 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:178 Resp: 79471

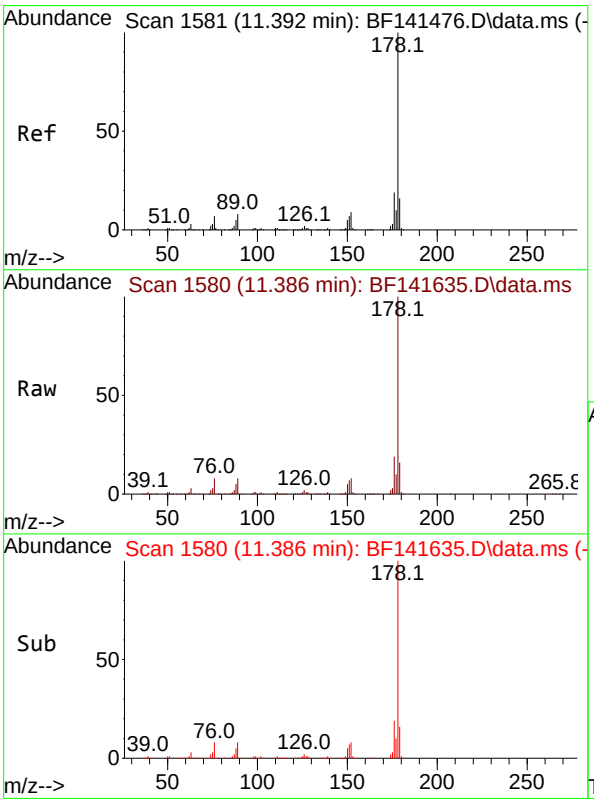
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.7	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

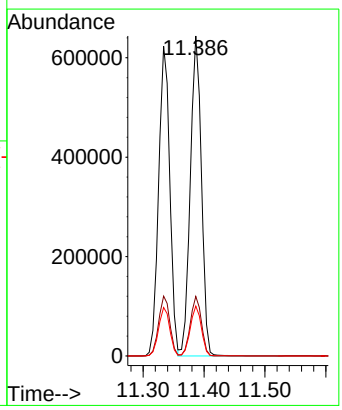
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

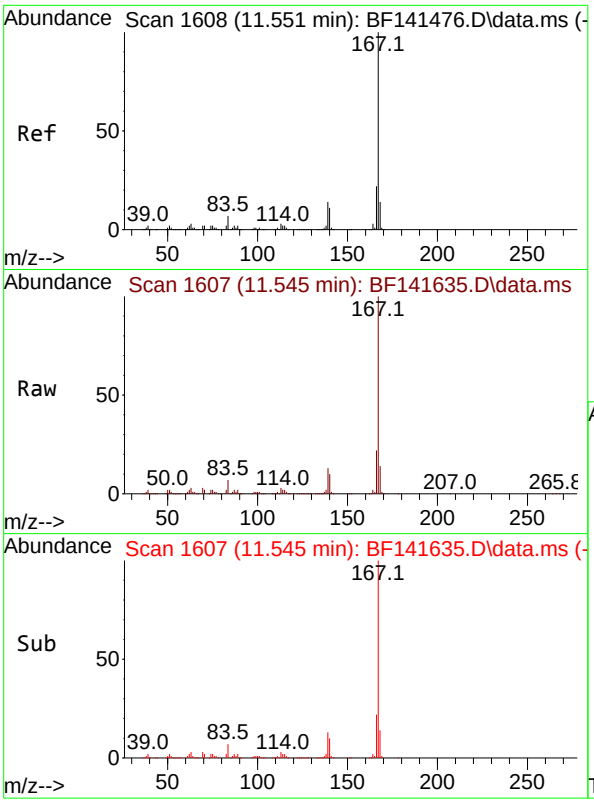


#72
Anthracene
Concen: 47.203 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:178 Resp: 816284

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.6	12.4	18.6

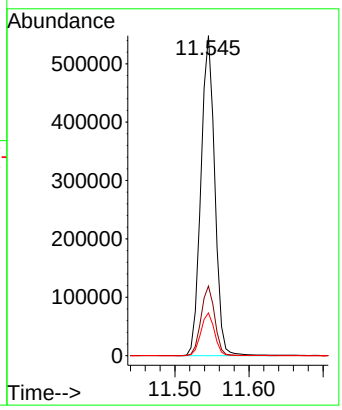




#73
Carbazole
Concen: 45.658 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:167 Resp: 71043

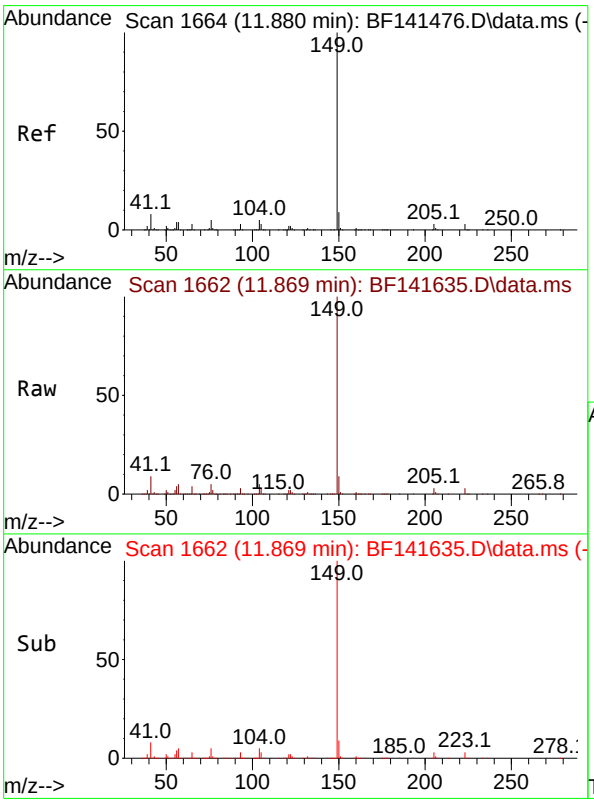
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

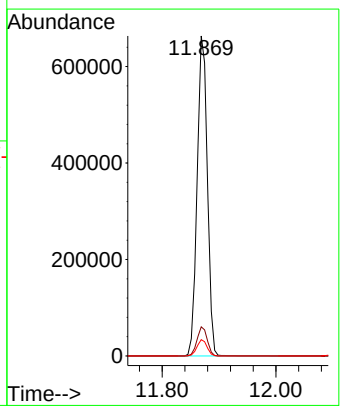
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

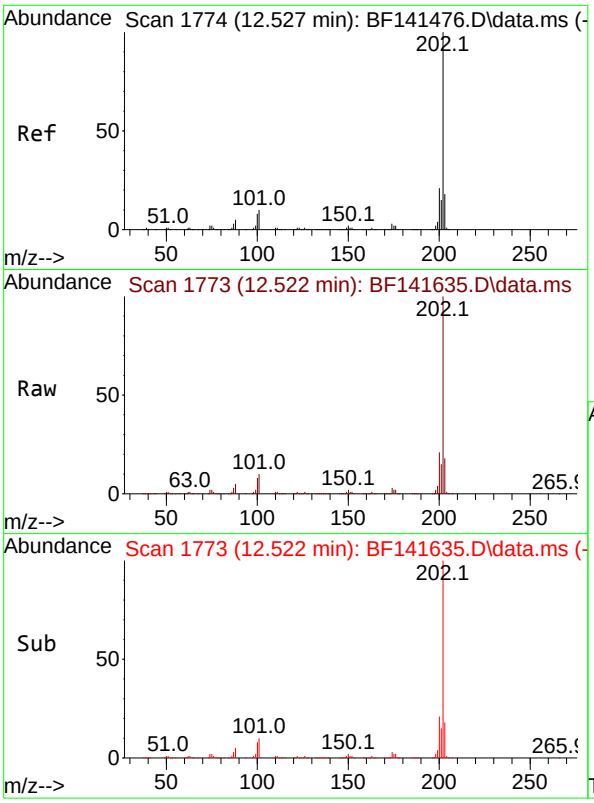


#74
Di-n-butylphthalate
Concen: 46.320 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 832214

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.1	4.2	6.2

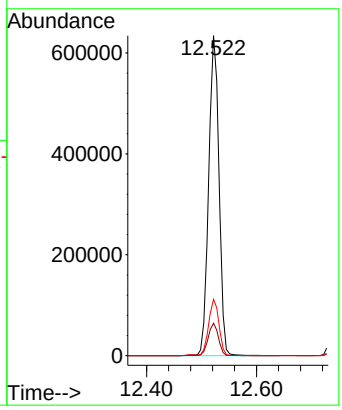




#75
Fluoranthene
Concen: 45.302 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:202 Resp: 82624

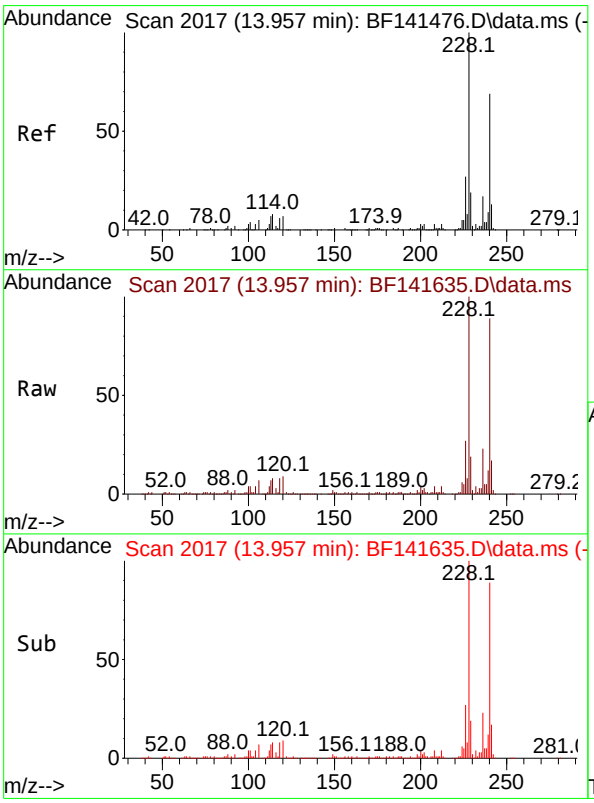
Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.6	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

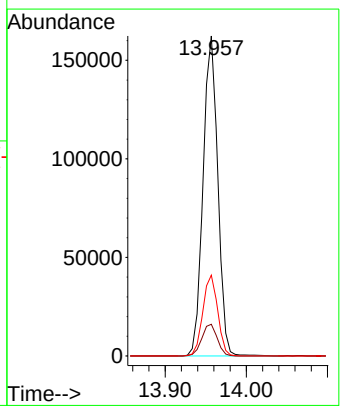
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

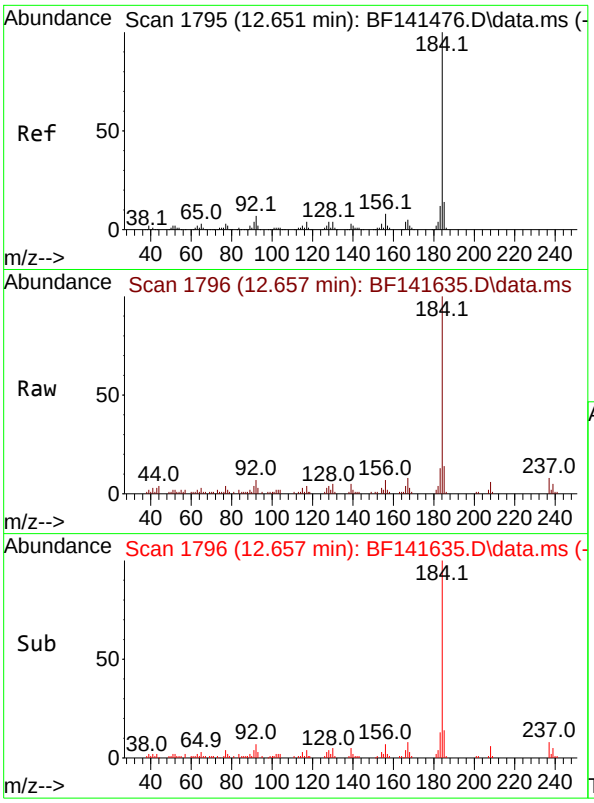


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:240 Resp: 204031

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.2	19.8	29.8

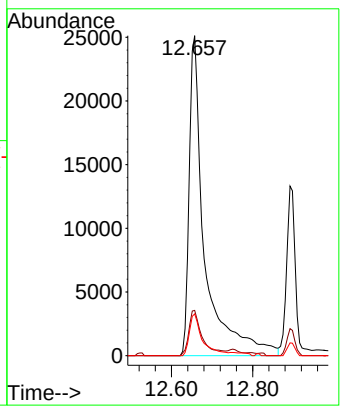




#77
Benzidine
Concen: 14.866 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:184 Resp: 6689

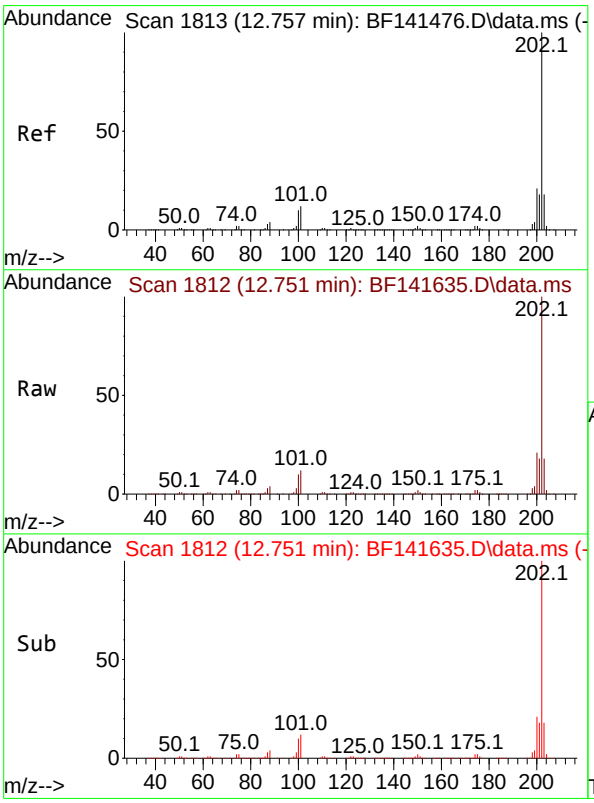
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	13.1	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

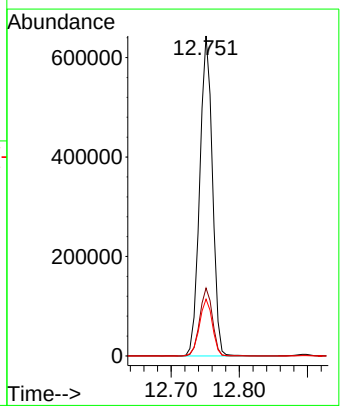
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

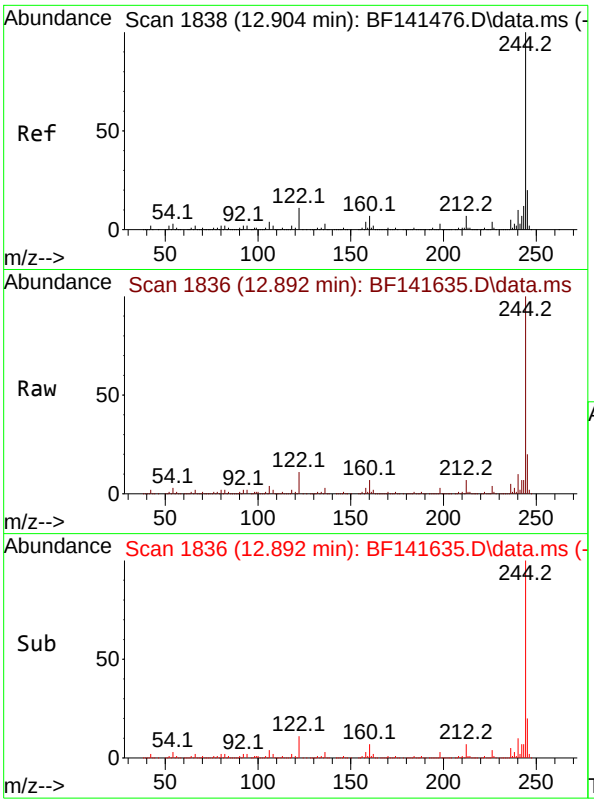


#78
Pyrene
Concen: 47.874 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:202 Resp: 831505

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

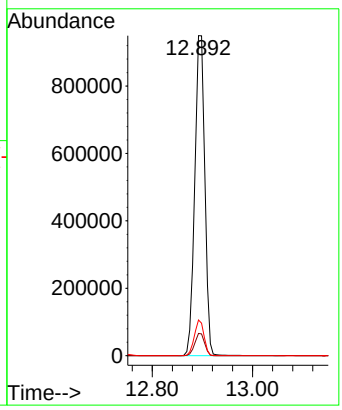




#79
Terphenyl-d14
Concen: 109.018 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:244 Resp: 131758

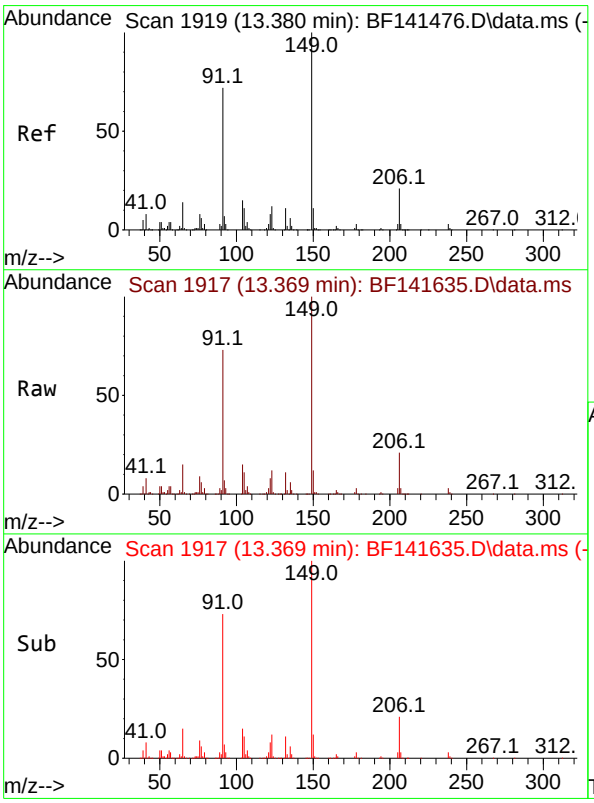
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	11.1	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

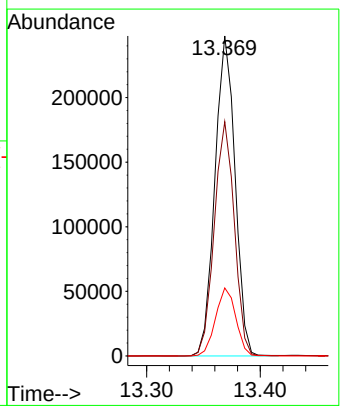
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

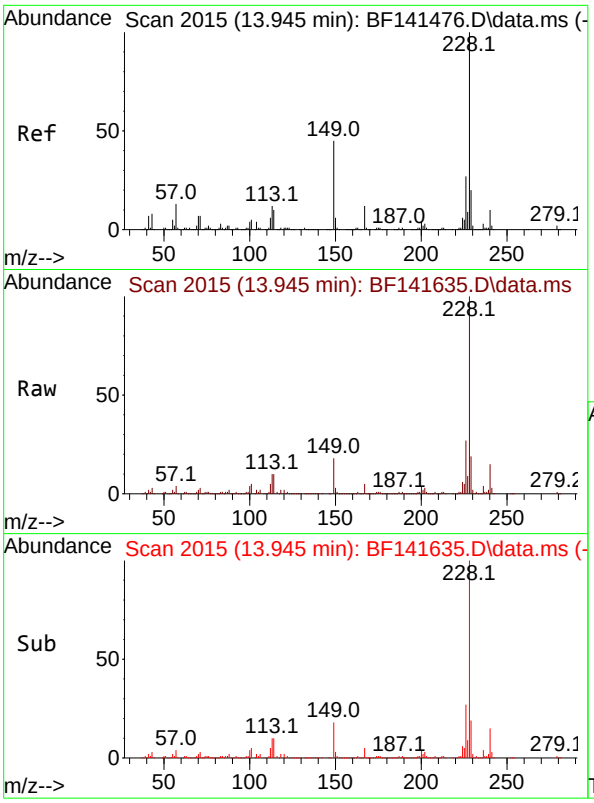


#80
Butylbenzylphthalate
Concen: 50.774 ng
RT: 13.369 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 305455

Ion	Ratio	Lower	Upper
149	100		
91	73.2	57.8	86.8
206	21.3	16.7	25.1

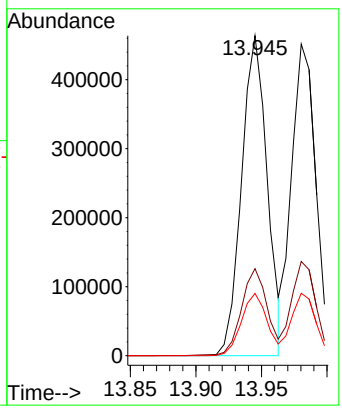




#81
Benzo(a)anthracene
Concen: 46.434 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:228 Resp: 62976

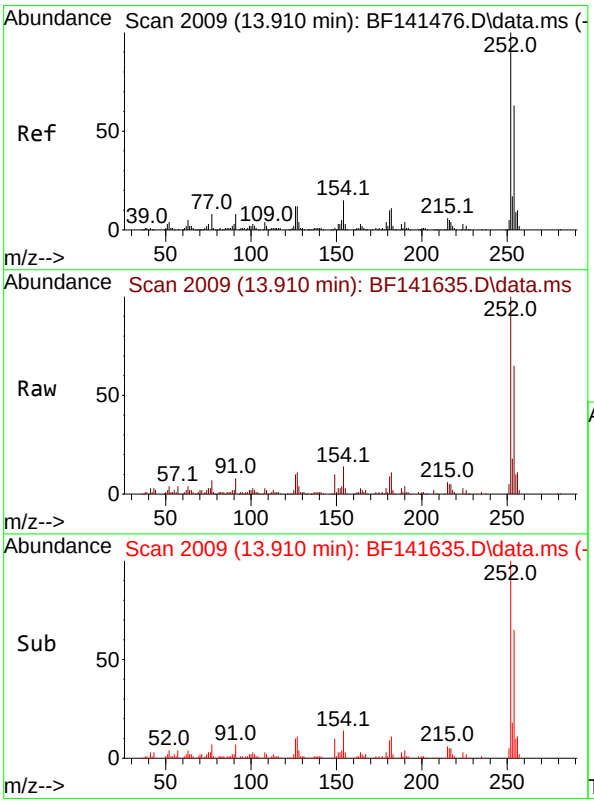
Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	19.4	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

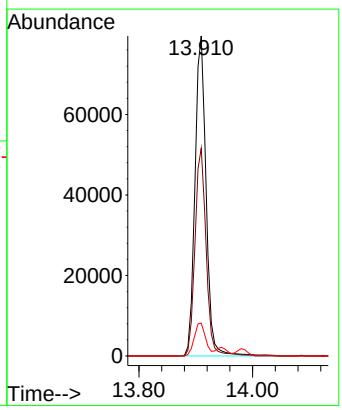
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

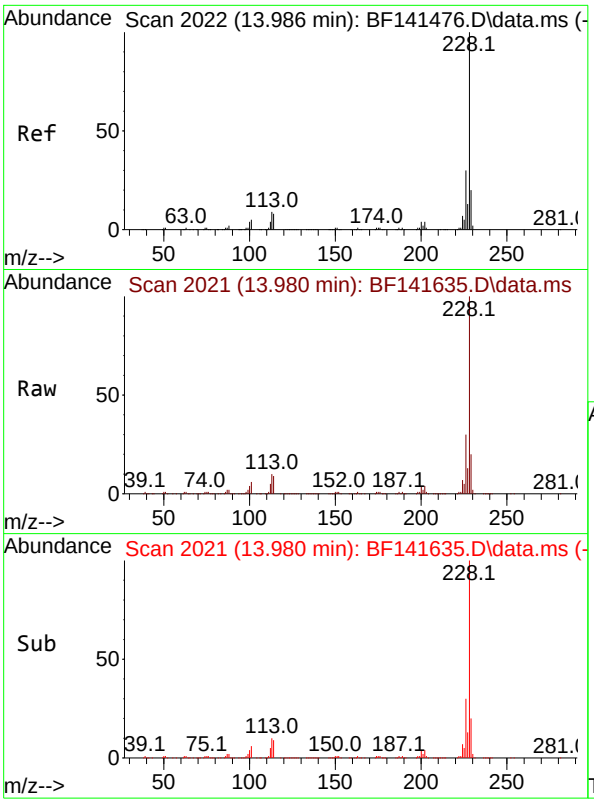


#82
3,3'-Dichlorobenzidine
Concen: 28.014 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 108836

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.6	76.0
126	10.3	9.3	13.9

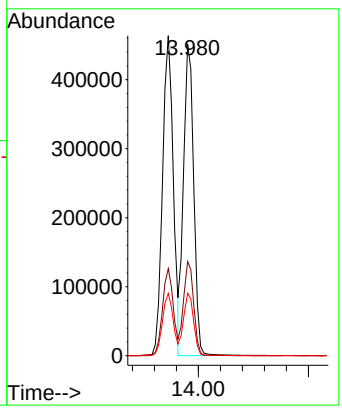




#83
Chrysene
Concen: 46.719 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:228 Resp: 58506

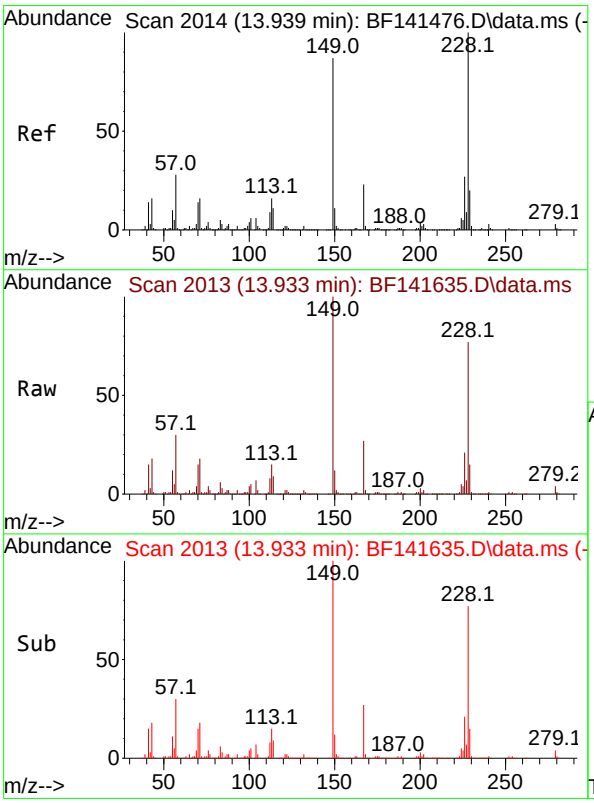
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	20.0	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

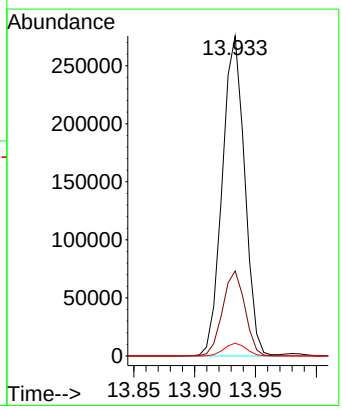
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

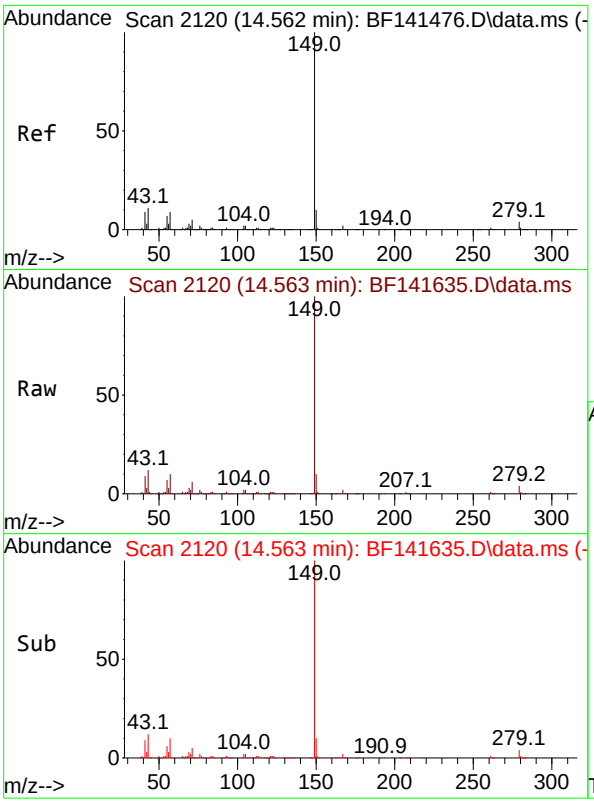


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.064 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 353256

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.4	32.0
279	4.0	3.1	4.7

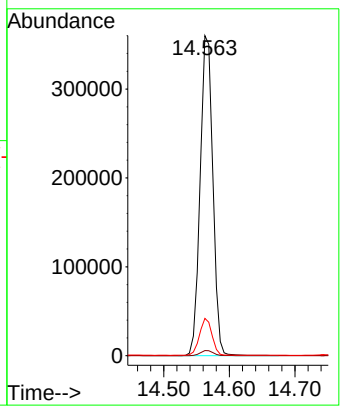




#85
Di-n-octyl phthalate
Concen: 50.295 ng
RT: 14.563 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 48682

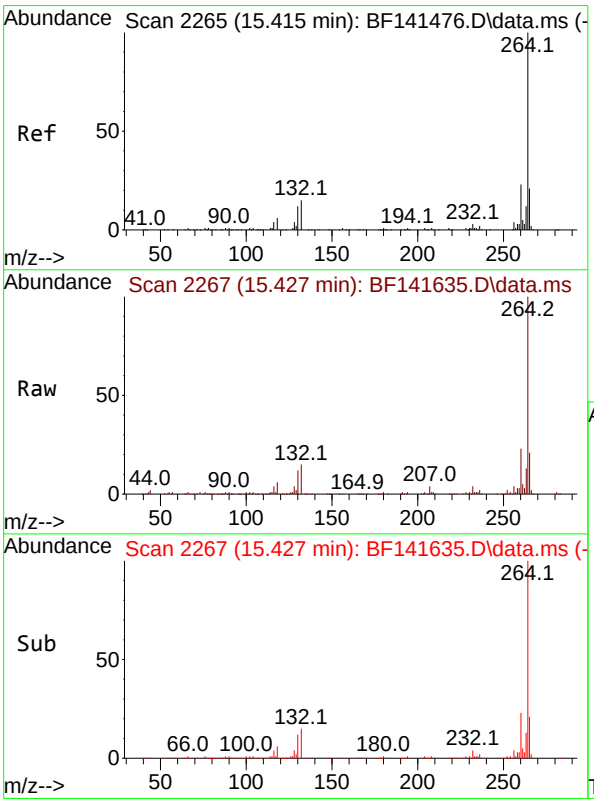
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	11.3	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

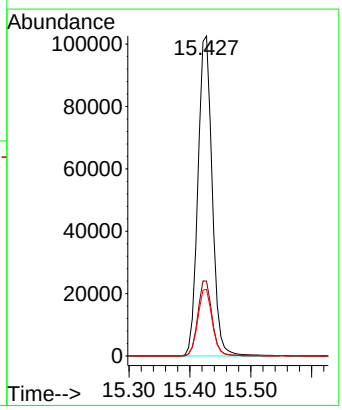
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

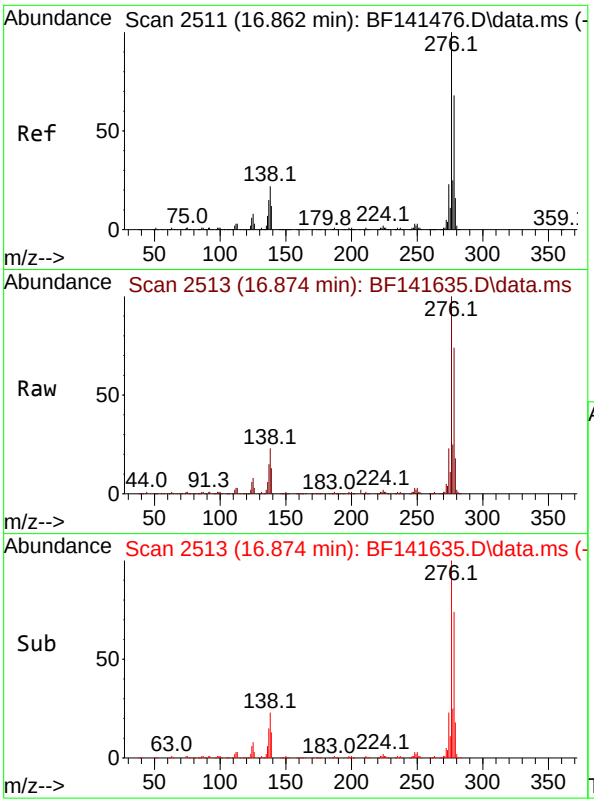


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. 0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:264 Resp: 166342

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	20.8	17.0	25.4

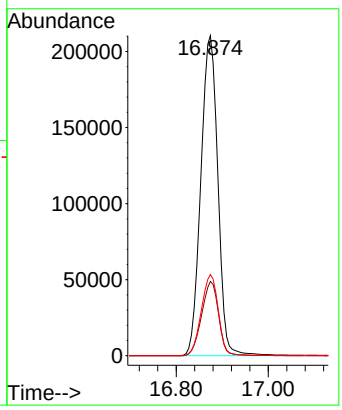




#87
Indeno(1,2,3-cd)pyrene
Concen: 52.713 ng
RT: 16.874 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:276 Resp: 54178

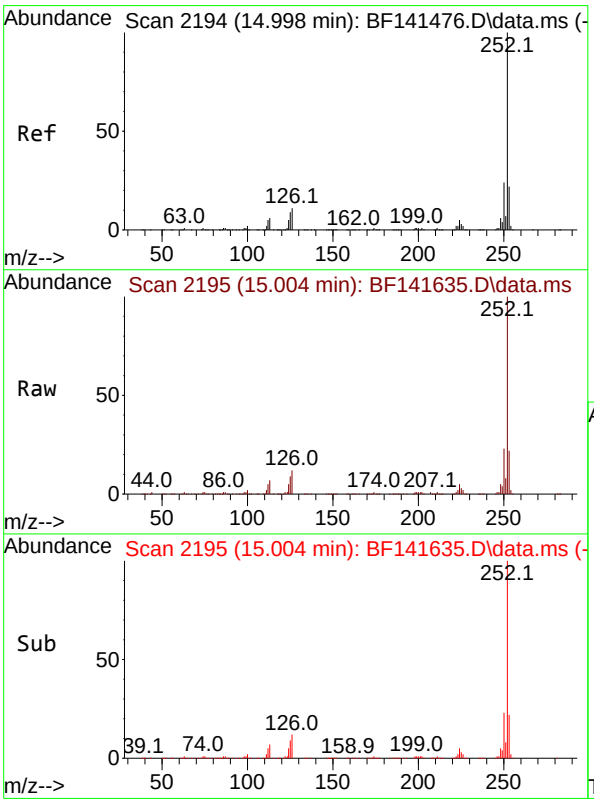
Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.0	27.0
277	25.2	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

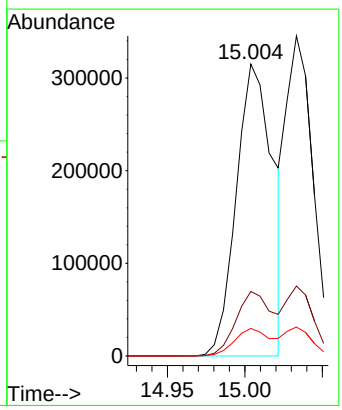
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

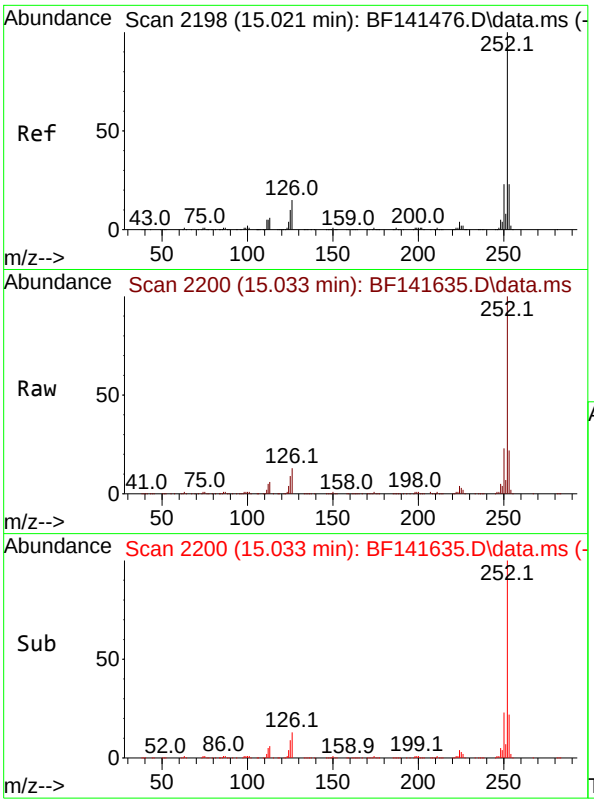


#88
Benzo(b)fluoranthene
Concen: 46.374 ng
RT: 15.004 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 517956

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.5	7.0	10.6

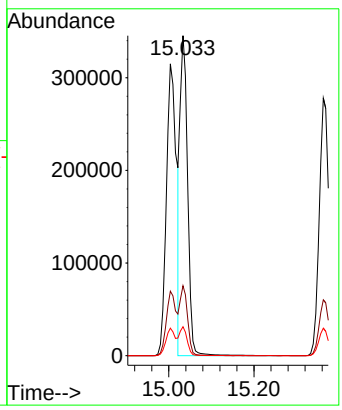




#89
Benzo(k)fluoranthene
Concen: 44.654 ng
RT: 15.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 42588

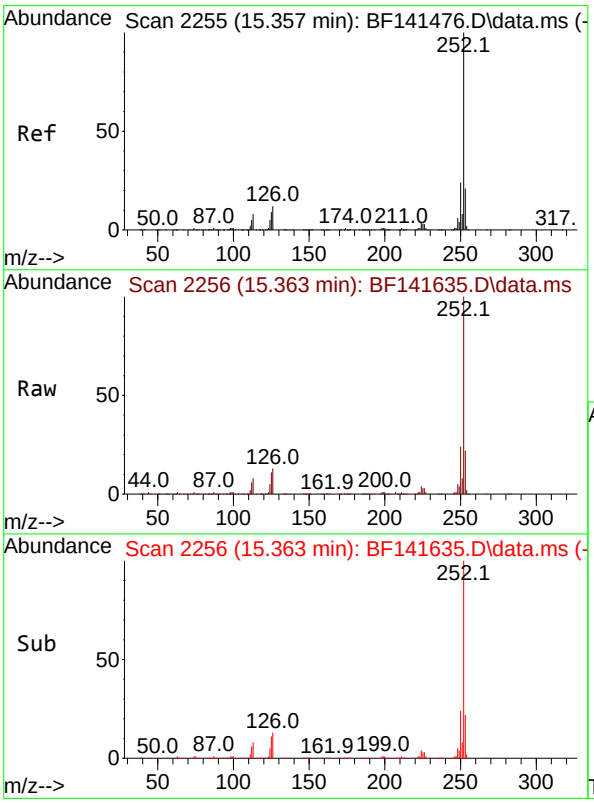
Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.0	27.0
125	9.1	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

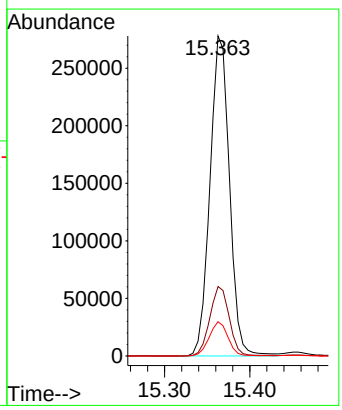
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

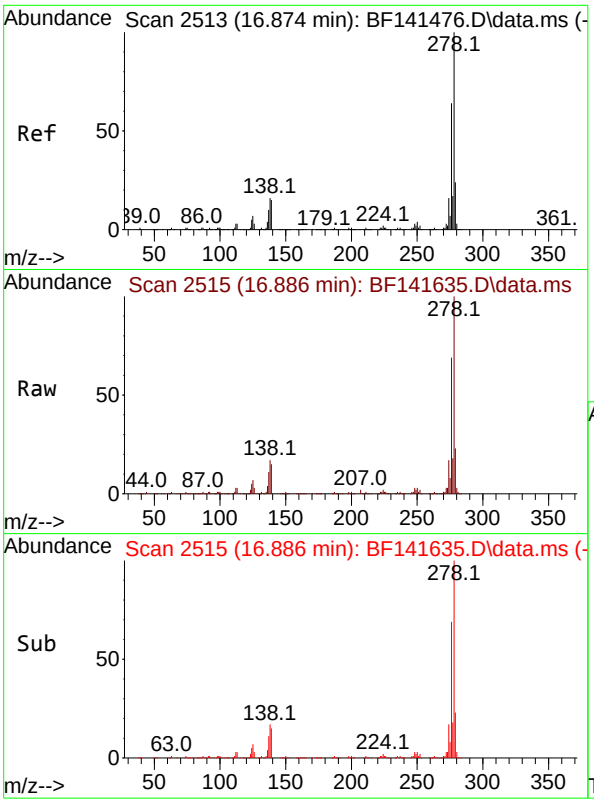


#90
Benzo(a)pyrene
Concen: 48.920 ng
RT: 15.363 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 442121

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	10.7	7.4	11.2

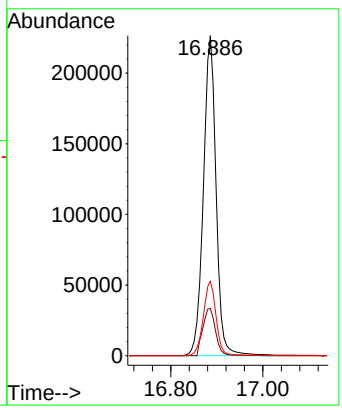




#91
Dibenzo(a,h)anthracene
Concen: 52.384 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:278 Resp: 43626

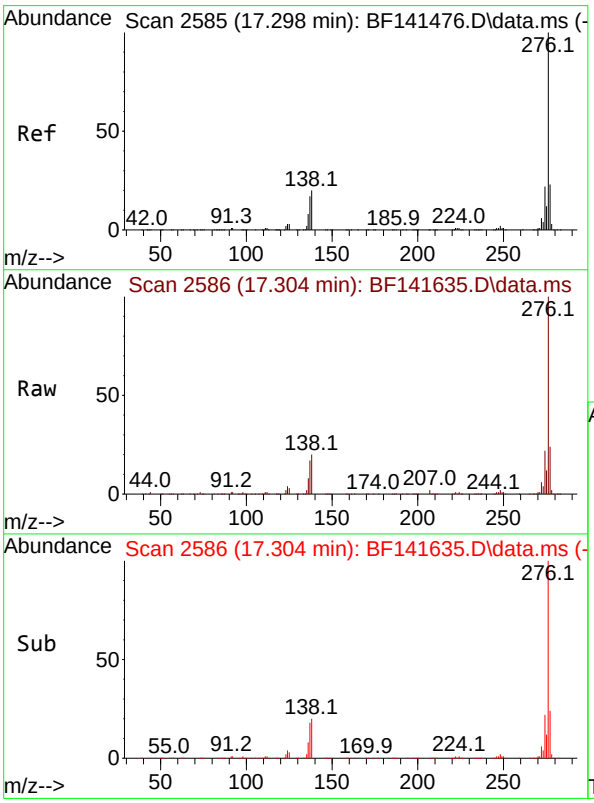
Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.8	17.6
279	23.2	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Manual Integrations
APPROVED

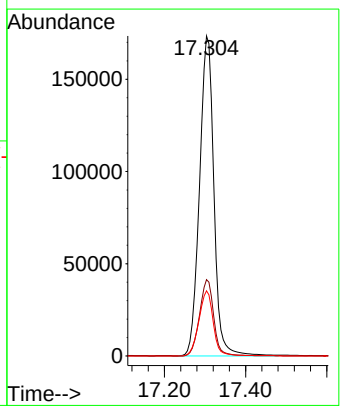
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#92
Benzo(g,h,i)perylene
Concen: 49.099 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:276 Resp: 427909

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	20.3	15.9	23.9



Raw Data: **BF141636.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	CARBON-WATERMSD	SDG No.:	Q1352
Lab Sample ID:	Q1356-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141636.D	1	02/13/25 09:00	02/14/25 13:37	PB166711

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
110-86-1	Pyridine	250		15.5	40.0	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	450		8.40	40.0	50.0	ug/L
95-48-7	2-Methylphenol	450		11.3	40.0	50.0	ug/L
65794-96-9	3+4-Methylphenols	450		11.5	80.0	100	ug/L
67-72-1	Hexachloroethane	450		10.1	40.0	50.0	ug/L
98-95-3	Nitrobenzene	450		12.7	40.0	50.0	ug/L
87-68-3	Hexachlorobutadiene	450		12.7	40.0	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	460		8.90	40.0	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	440		10.1	40.0	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	470		15.2	40.0	50.0	ug/L
118-74-1	Hexachlorobenzene	470		11.4	40.0	50.0	ug/L
87-86-5	Pentachlorophenol	800		18.5	80.0	100	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	133		19 - 119		89%	SPK: 150
13127-88-3	Phenol-d6	120		10 - 130		80%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.5		44 - 120		99%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.0		44 - 119		95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		43 - 140		95%	SPK: 150
1718-51-0	Terphenyl-d14	117		50 - 134		117%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	85000	6.787				
1146-65-2	Naphthalene-d8	344000	8.069				
15067-26-2	Acenaphthene-d10	189000	9.822				
1517-22-2	Phenanthrene-d10	320000	11.31				
1719-03-5	Chrysene-d12	188000	13.957				
1520-96-3	Perylene-d12	159000	15.433				

Raw Data: **BF141636.D**

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

Report of Analysis

Client:	Weston Solutions	Date Collected:	02/11/25
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	02/11/25
Client Sample ID:	CARBON-WATERMSD	SDG No.:	Q1352
Lab Sample ID:	Q1356-04MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141636.D	1	02/13/25 09:00	02/14/25 13:37	PB166711

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

Sample Results: **BF141636.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141636.D
Acq On : 14 Feb 2025 13:37
Operator : RC/JU
Sample : Q1356-04MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 14 14:03:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	84972	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	344114	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	188709	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	320276	20.000	ng		0.00
76) Chrysene-d12	13.957	240	187767	20.000	ng		0.00
86) Perylene-d12	15.433	264	159211	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	720859	132.999	ng		0.00
7) Phenol-d6	6.434	99	823753	120.248	ng		0.00
23) Nitrobenzene-d5	7.351	82	650153	98.545	ng		-0.01
42) 2,4,6-Tribromophenol	10.616	330	268857	141.827	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1163900	95.022	ng		0.00
79) Terphenyl-d14	12.898	244	1297134	116.623	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.546	88	94510	43.325	ng		99
3) Pyridine	3.275	79	129916	25.027	ng		95
4) n-Nitrosodimethylamine	3.228	42	141641	41.208	ng		94
6) Aniline	6.451	93	135885	21.146	ng	#	55
8) 2-Chlorophenol	6.575	128	269765	46.062	ng		99
9) Benzaldehyde	6.334	77	96642	26.547	ng		98
10) Phenol	6.446	94	272696	38.246	ng		88
11) bis(2-Chloroethyl)ether	6.522	93	249365	46.563	ng		100
12) 1,3-Dichlorobenzene	6.728	146	274383	44.378	ng		97
13) 1,4-Dichlorobenzene	6.804	146	281210	44.516	ng		99
14) 1,2-Dichlorobenzene	6.957	146	270371	46.115	ng		98
15) Benzyl Alcohol	6.934	79	221414	42.148	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.063	45	401252	43.769	ng		78
17) 2-Methylphenol	7.051	107	203996	44.511	ng		96
18) Hexachloroethane	7.298	117	105061	44.938	ng		96
19) n-Nitroso-di-n-propyla...	7.204	70	190325	46.447	ng		96
20) 3+4-Methylphenols	7.204	107	261327	44.867	ng		98
22) Acetophenone	7.198	105	413898	48.352	ng		95
24) Nitrobenzene	7.375	77	288642	44.866	ng		99
25) Isophorone	7.610	82	504925	47.999	ng		99
26) 2-Nitrophenol	7.687	139	143208	44.742	ng		96
27) 2,4-Dimethylphenol	7.728	122	217464	58.159	ng		98
28) bis(2-Chloroethoxy)met...	7.822	93	308243	45.728	ng		100
29) 2,4-Dichlorophenol	7.934	162	229425	45.412	ng		100
30) 1,2,4-Trichlorobenzene	8.010	180	242498	44.078	ng		99
31) Naphthalene	8.092	128	778564	43.465	ng		100
32) Benzoic acid	7.863	122	132353	34.078	ng		97
33) 4-Chloroaniline	8.151	127	47445	7.586	ng		97
34) Hexachlorobutadiene	8.204	225	148293	44.899	ng		99
35) Caprolactam	8.516	113	59889m	38.934	ng		
36) 4-Chloro-3-methylphenol	8.640	107	246482	44.044	ng		100
37) 2-Methylnaphthalene	8.781	142	498009	42.725	ng		99
38) 1-Methylnaphthalene	8.881	142	484567	42.922	ng		98
40) 1,2,4,5-Tetrachloroben...	8.951	216	267826	49.056	ng		98
41) Hexachlorocyclopentadiene	8.934	237	267751	147.448	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	161389	45.737	ng		99

Sample Results: **BF141636.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141636.D
Acq On : 14 Feb 2025 13:37
Operator : RC/JU
Sample : Q1356-04MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

Quant Time: Feb 14 14:03:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	169569	44.341	ng	98
46) 1,1'-Biphenyl	9.245	154	720778	49.266	ng	99
47) 2-Chloronaphthalene	9.269	162	492631	45.535	ng	99
48) 2-Nitroaniline	9.369	65	159276	43.869	ng	99
49) Acenaphthylene	9.687	152	757692	47.086	ng	99
50) Dimethylphthalate	9.551	163	587334	45.846	ng	100
51) 2,6-Dinitrotoluene	9.616	165	129736	46.325	ng	96
52) Acenaphthene	9.857	154	477895	44.175	ng	100
53) 3-Nitroaniline	9.781	138	52673	17.475	ng	97
54) 2,4-Dinitrophenol	9.898	184	161892	97.264	ng	92
55) Dibenzofuran	10.028	168	684122	43.083	ng	100
56) 4-Nitrophenol	9.963	139	173490	77.535	ng	97
57) 2,4-Dinitrotoluene	10.022	165	175435	47.056	ng	98
58) Fluorene	10.375	166	546127	44.481	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	143768	43.667	ng	97
60) Diethylphthalate	10.245	149	557799	44.254	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	262210	44.392	ng	99
62) 4-Nitroaniline	10.398	138	123974	40.505	ng	97
63) Azobenzene	10.522	77	536984	42.854	ng	98
65) 4,6-Dinitro-2-methylph...	10.428	198	102555	46.096	ng	97
66) n-Nitrosodiphenylamine	10.486	169	472341	46.072	ng	99
67) 4-Bromophenyl-phenylether	10.851	248	162515	45.402	ng	94
68) Hexachlorobenzene	10.922	284	174584	47.365	ng	99
69) Atrazine	11.016	200	165172	53.702	ng	98
70) Pentachlorophenol	11.122	266	188251	79.874	ng	99
71) Phenanthrene	11.333	178	817975	46.397	ng	100
72) Anthracene	11.386	178	835984	47.172	ng	100
73) Carbazole	11.545	167	727521	45.623	ng	100
74) Di-n-butylphthalate	11.869	149	839845	45.613	ng	100
75) Fluoranthene	12.522	202	820316	43.888	ng	100
77) Benzidine	12.657	184	32906	7.946	ng	98
78) Pyrene	12.751	202	831249	52.005	ng	99
80) Butylbenzylphthalate	13.369	149	291462	52.645	ng	100
81) Benzo(a)anthracene	13.945	228	603503	48.352	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	100379	28.075	ng	99
83) Chrysene	13.986	228	525534	45.600	ng	100
84) Bis(2-ethylhexyl)phtha...	13.933	149	325174	52.076	ng	100
85) Di-n-octyl phthalate	14.574	149	450683	50.594	ng	98
87) Indeno(1,2,3-cd)pyrene	16.886	276	549103	55.817	ng	99
88) Benzo(b)fluoranthene	15.016	252	456328	42.686	ng	99
89) Benzo(k)fluoranthene	15.045	252	431507	47.270	ng	98
90) Benzo(a)pyrene	15.374	252	423546	48.964	ng	99
91) Dibenzo(a,h)anthracene	16.898	278	445100	55.839	ng	99
92) Benzo(g,h,i)perylene	17.315	276	434697	52.112	ng	99

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

Sample Results: **BF141636.D**

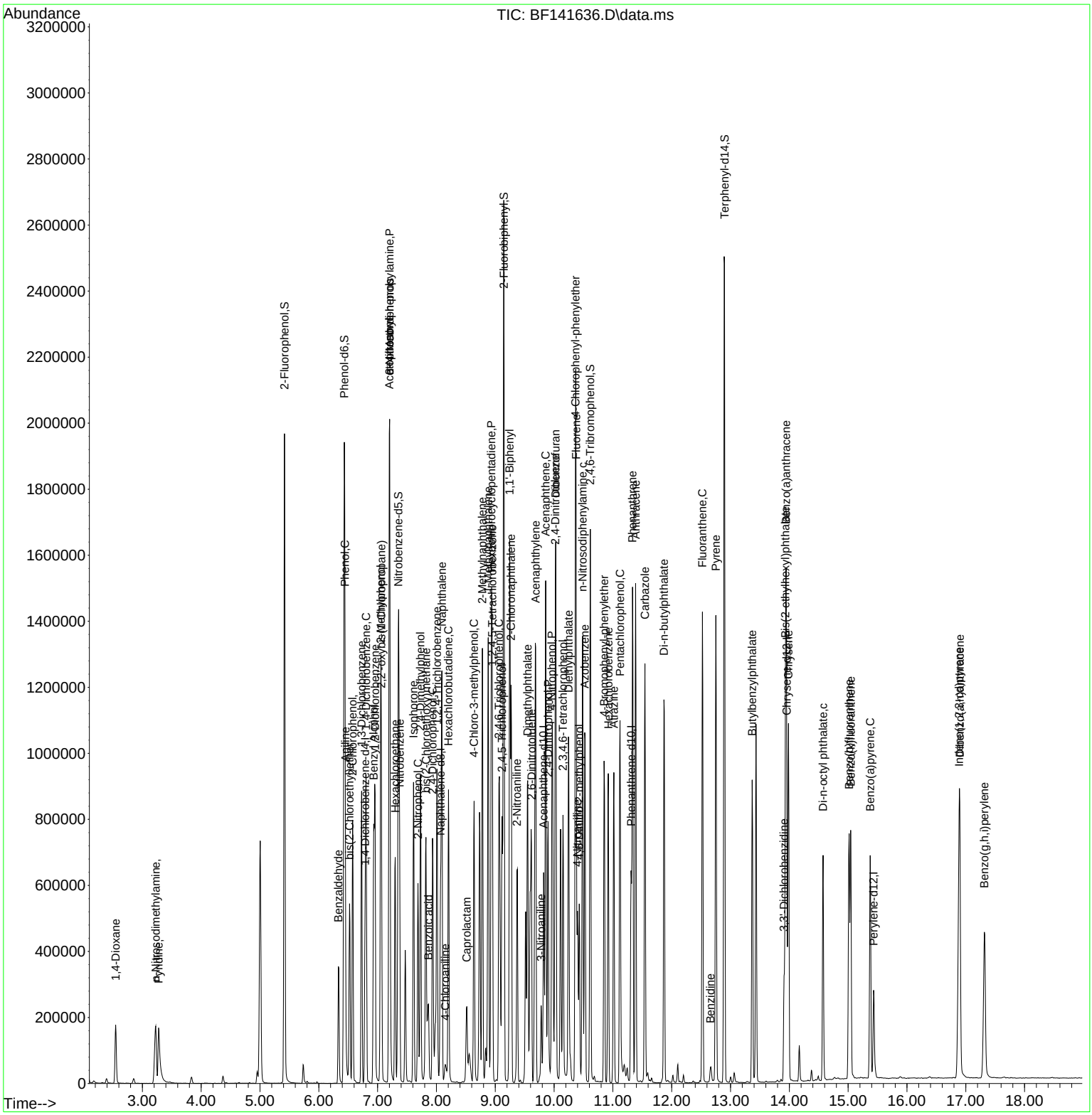
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141636.D
Acq On : 14 Feb 2025 13:37
Operator : RC/JU
Sample : Q1356-04MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

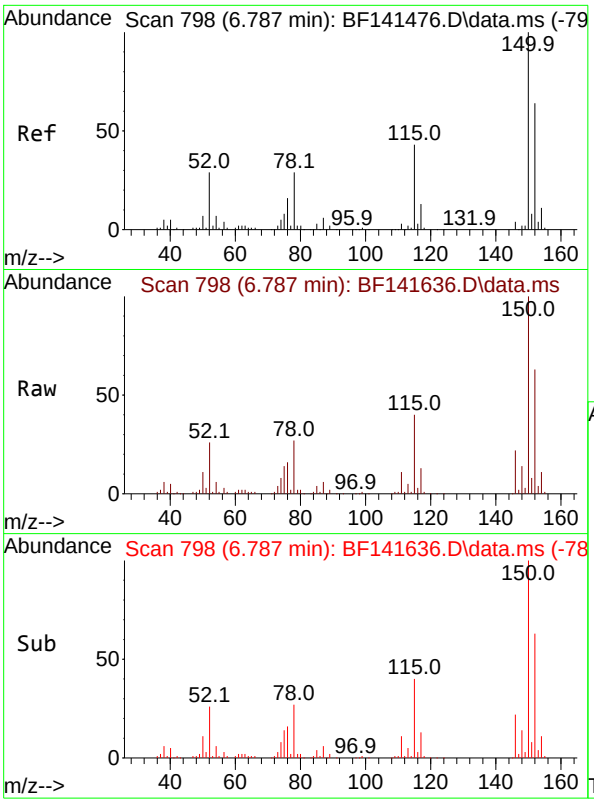
Quant Time: Feb 14 14:03:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

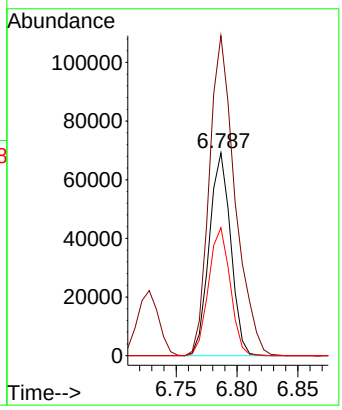




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:152 Resp: 8497

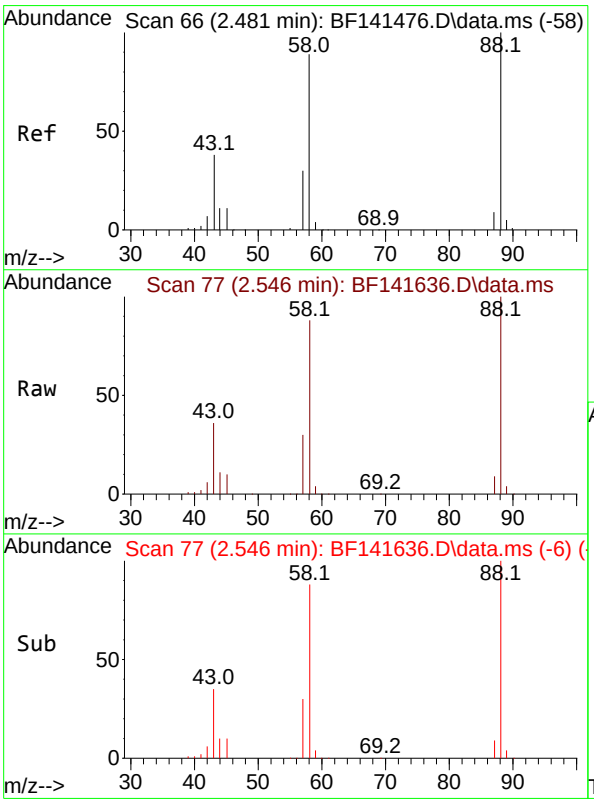
Ion	Ratio	Lower	Upper
152	100		
150	157.7	125.0	187.4
115	63.0	53.6	80.4



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

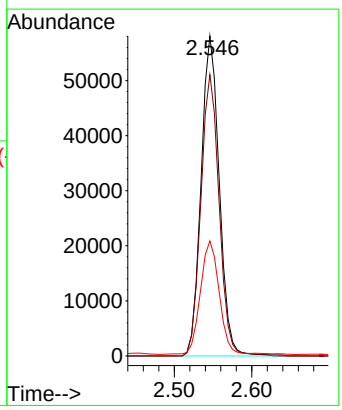
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

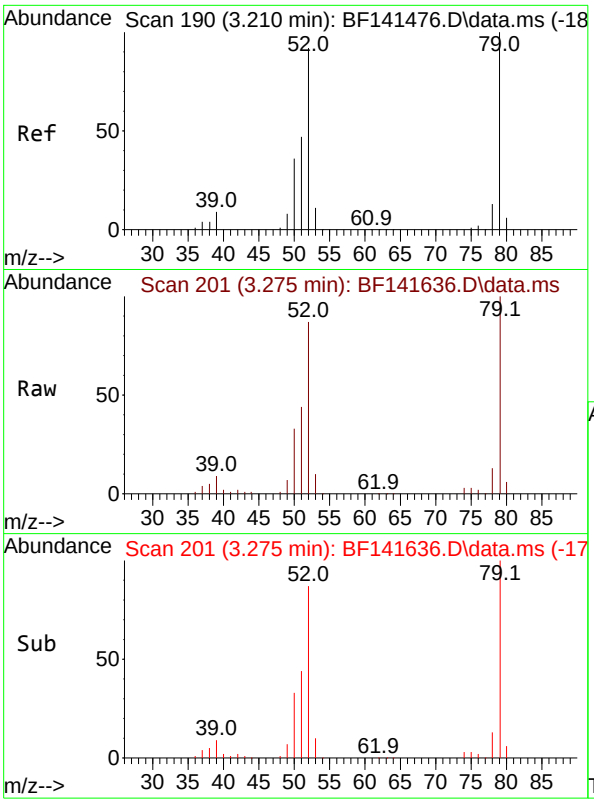


#2
1,4-Dioxane
Concen: 43.325 ng
RT: 2.546 min Scan# 77
Delta R.T. 0.065 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 88 Resp: 94510

Ion	Ratio	Lower	Upper
88	100		
58	88.7	71.1	106.7
43	36.5	30.6	46.0





#3
Pyridine
Concen: 25.027 ng
RT: 3.275 min Scan# 2
Delta R.T. 0.059 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

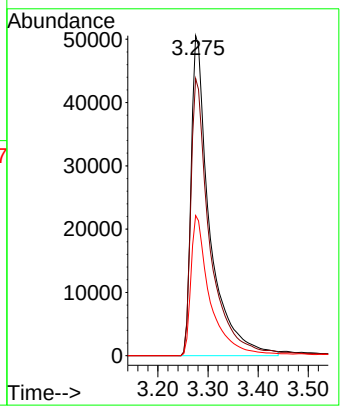
Tgt Ion: 79 Resp: 12991

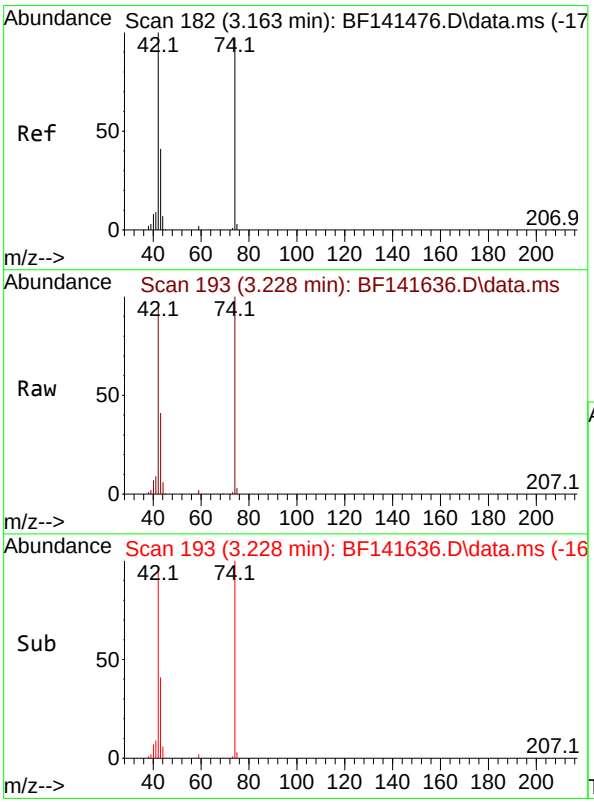
Ion	Ratio	Lower	Upper
79	100		
52	86.6	73.7	110.5
51	43.8	37.5	56.3

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

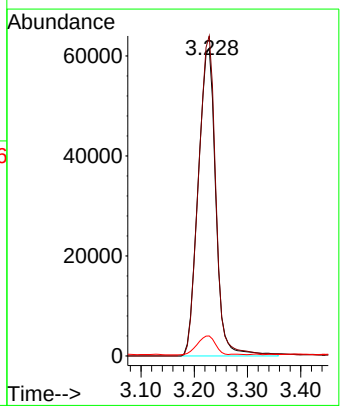


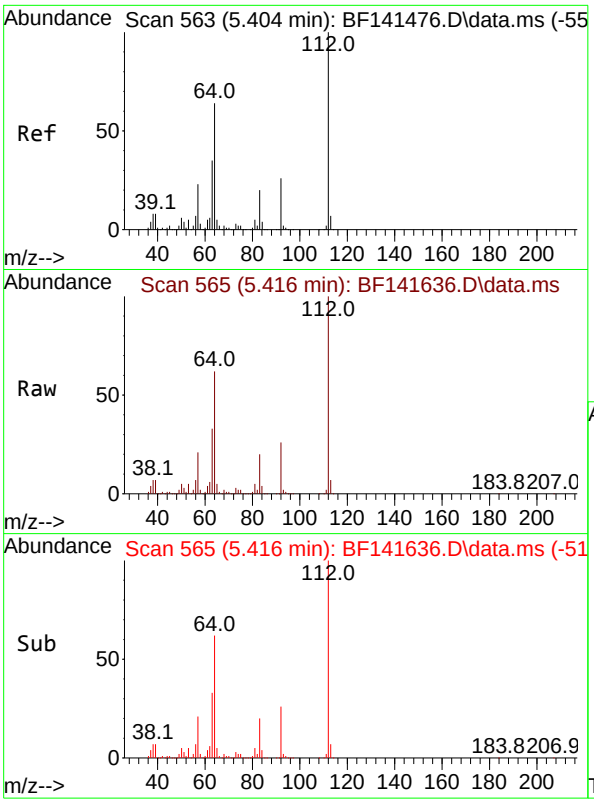


#4
n-Nitrosodimethylamine
Concen: 41.208 ng
RT: 3.228 min Scan# 193
Delta R.T. 0.041 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 42 Resp: 141641

Ion	Ratio	Lower	Upper
42	100		
74	104.0	78.0	117.0
44	6.5	5.4	8.2





#5
2-Fluorophenol
Concen: 132.999 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

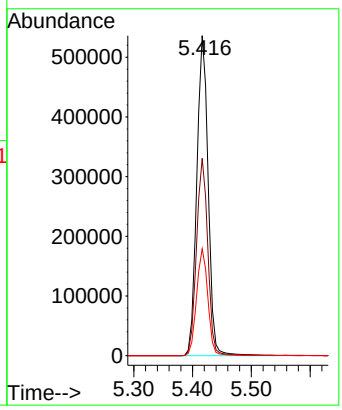
Tgt Ion:112 Resp: 72085

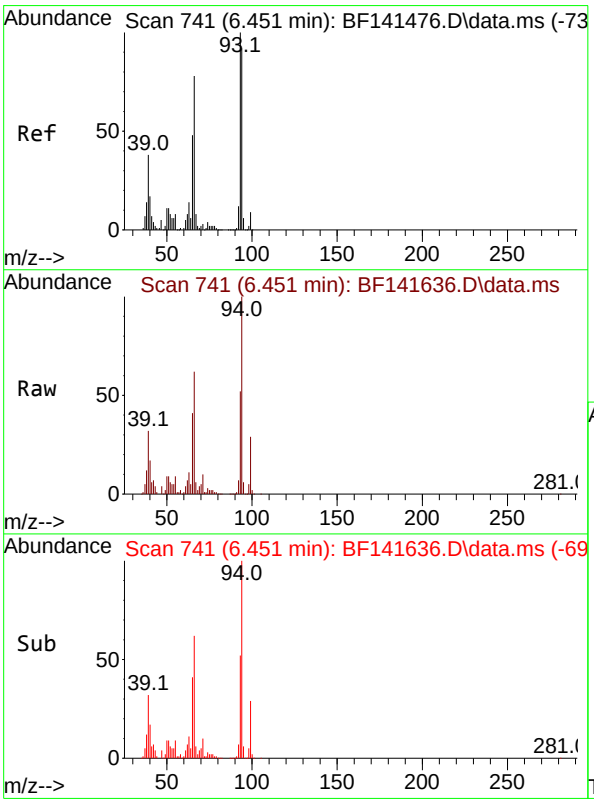
Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.1	76.7
63	33.4	28.4	42.6

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

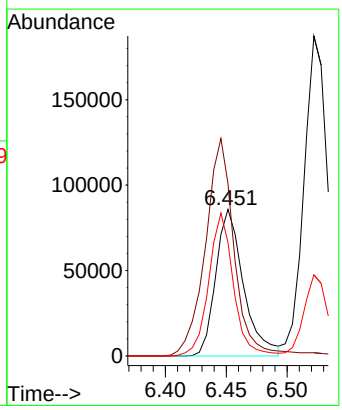


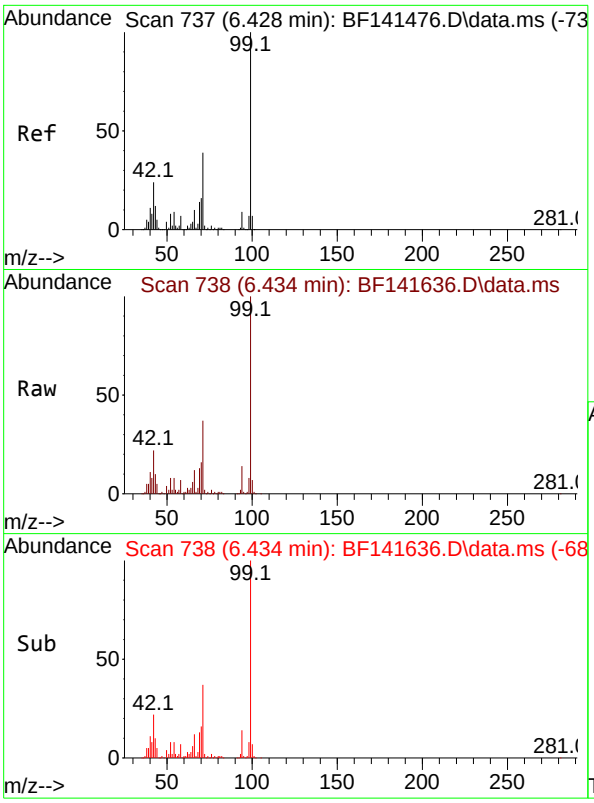


#6
Aniline
Concen: 21.146 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 93 Resp: 135885

Ion	Ratio	Lower	Upper
93	100		
66	117.7	62.6	94.0#
65	77.4	38.3	57.5#





#7
Phenol-d6
Concen: 120.248 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

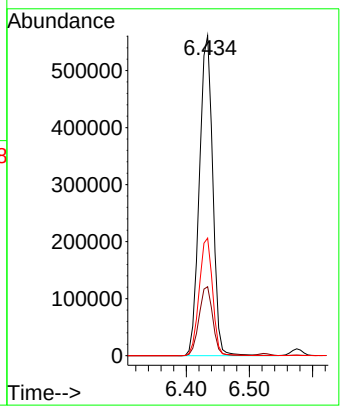
Tgt Ion: 99 Resp: 82375

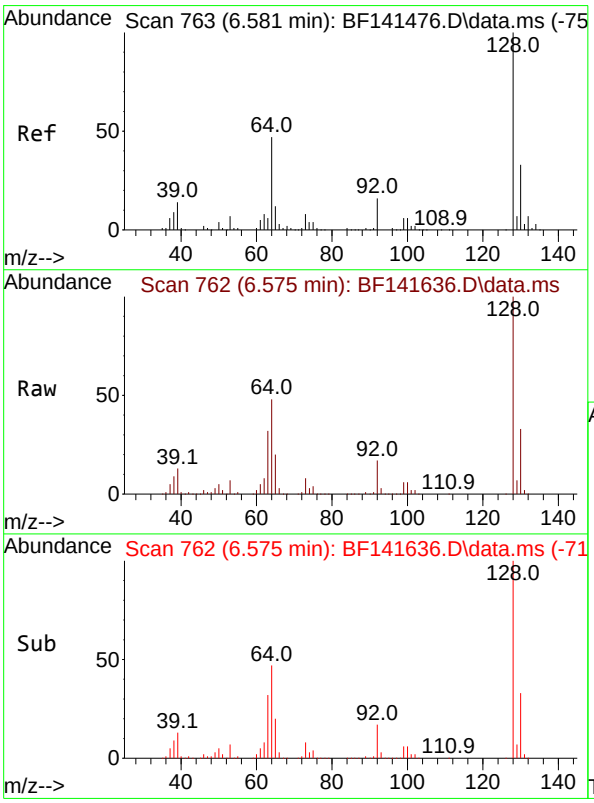
Ion	Ratio	Lower	Upper
99	100		
42	21.6	19.1	28.7
71	36.7	31.1	46.7

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

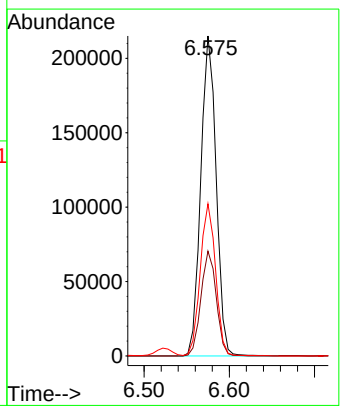


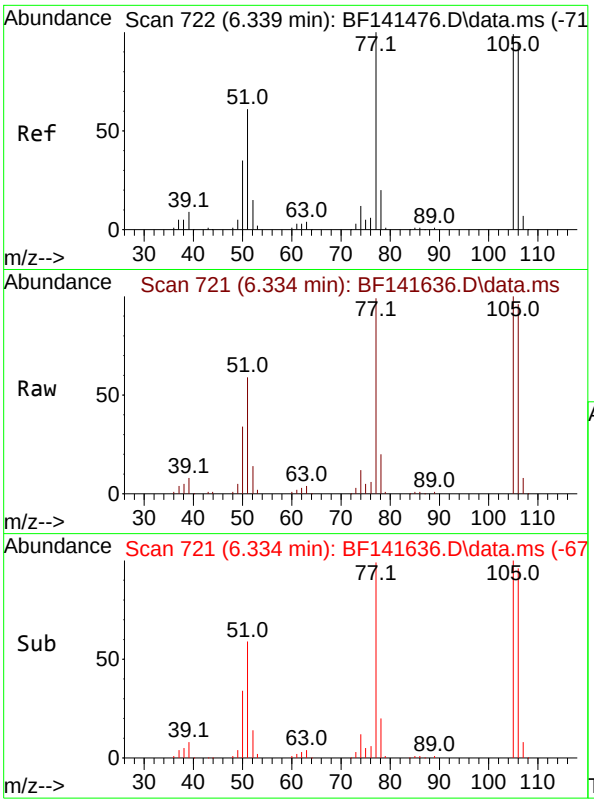


#8
2-Chlorophenol
Concen: 46.062 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:128 Resp: 269765

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.7	52.7
64	47.5	28.3	68.3

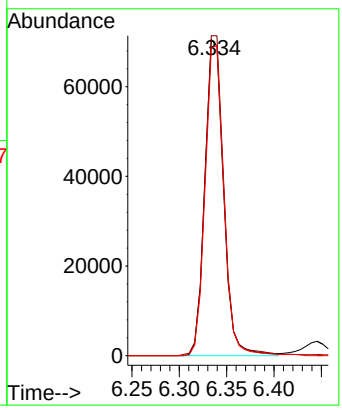




#9
Benzaldehyde
Concen: 26.547 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 77 Resp: 9664

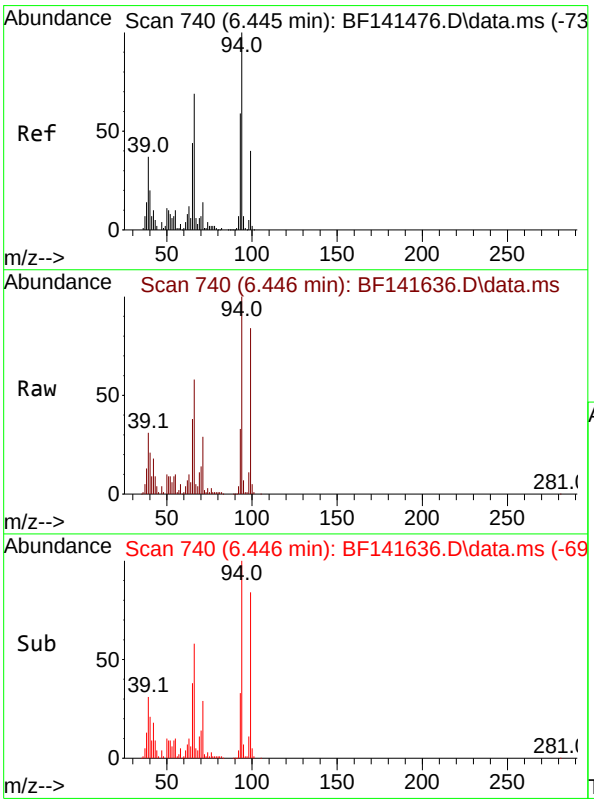
Ion	Ratio	Lower	Upper
77	100		
105	101.3	79.4	119.4
106	97.3	75.1	115.1



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

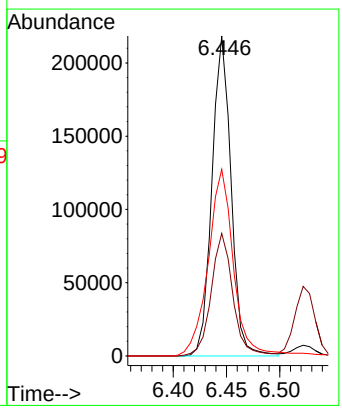
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

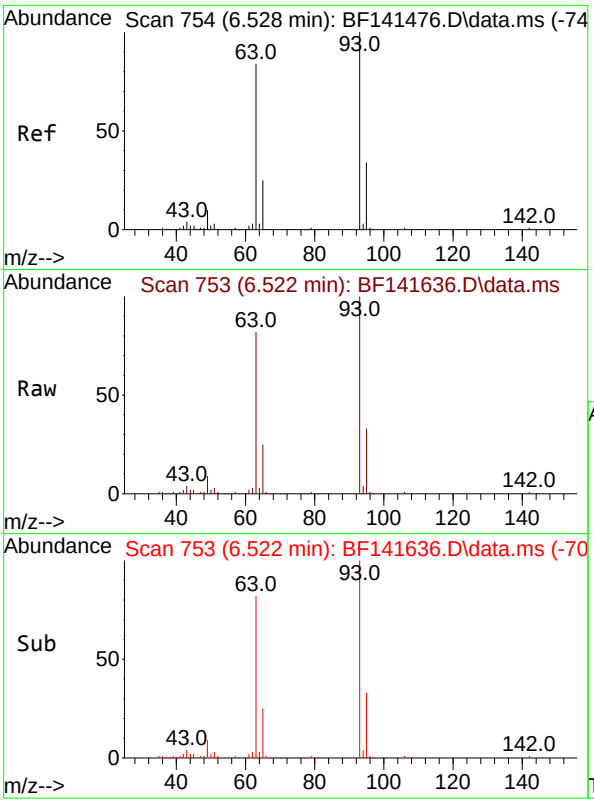


#10
Phenol
Concen: 38.246 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 94 Resp: 272696

Ion	Ratio	Lower	Upper
94	100		
65	38.3	23.7	63.7
66	58.3	49.3	89.3

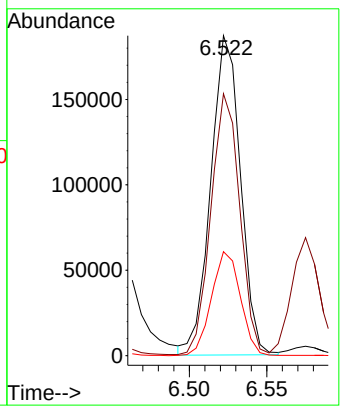




#11
bis(2-Chloroethyl)ether
Concen: 46.563 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 93 Resp: 24936

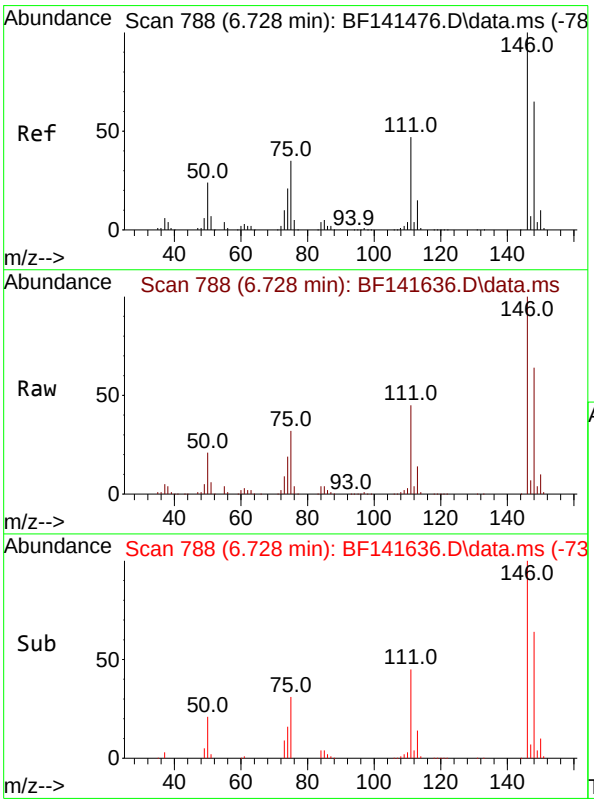
Ion	Ratio	Lower	Upper
93	100		
63	81.9	62.0	102.0
95	32.5	12.6	52.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

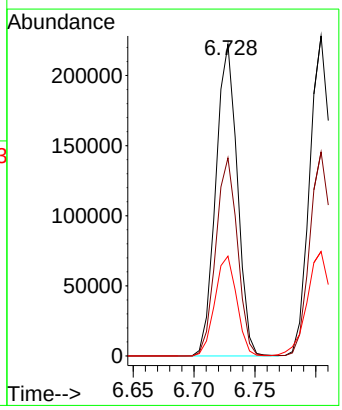
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

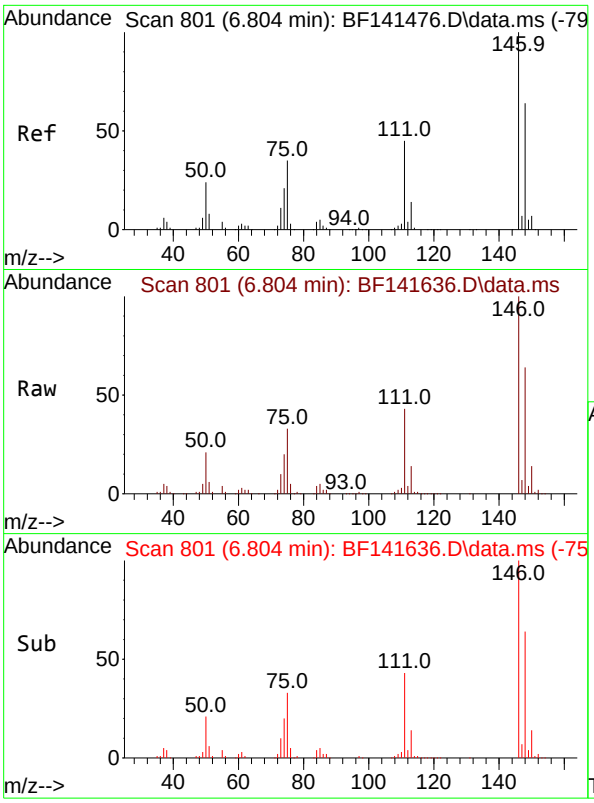


#12
1,3-Dichlorobenzene
Concen: 44.378 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:146 Resp: 274383

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.9	77.9
75	32.1	28.2	42.2

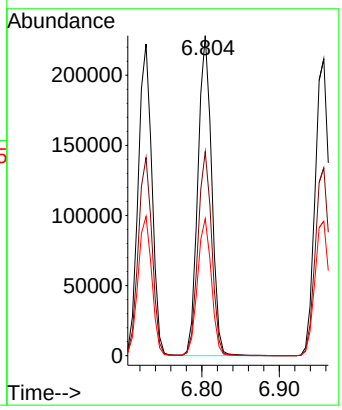




#13
1,4-Dichlorobenzene
Concen: 44.516 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:146 Resp: 28121

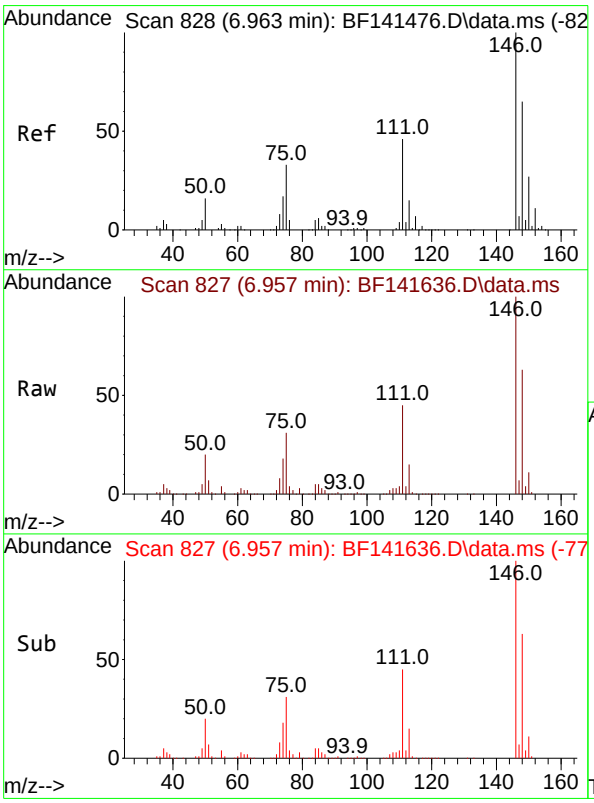
Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.9	76.3
111	42.8	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

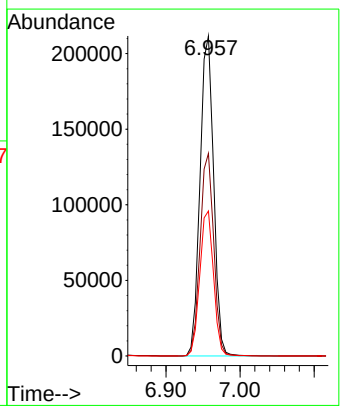
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

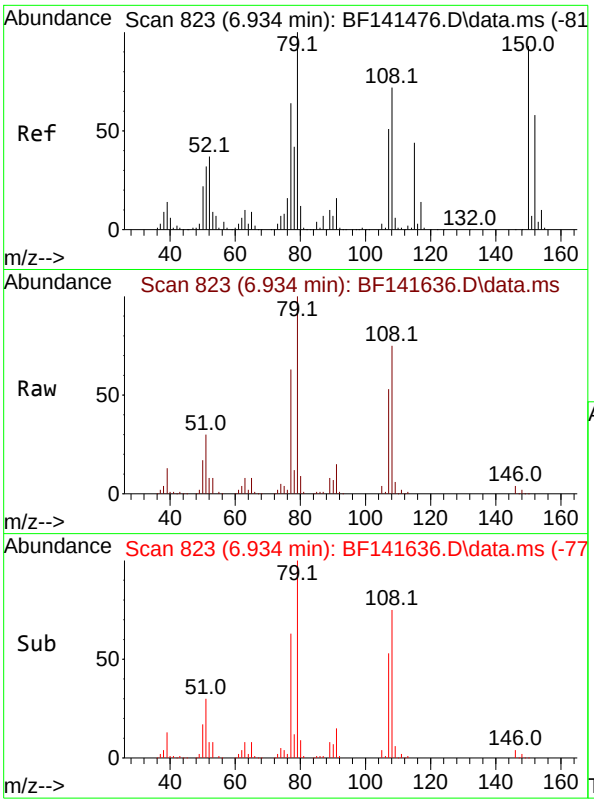


#14
1,2-Dichlorobenzene
Concen: 46.115 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:146 Resp: 270371

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.8	77.6
111	45.3	37.0	55.4





#15
Benzyl Alcohol
Concen: 42.148 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

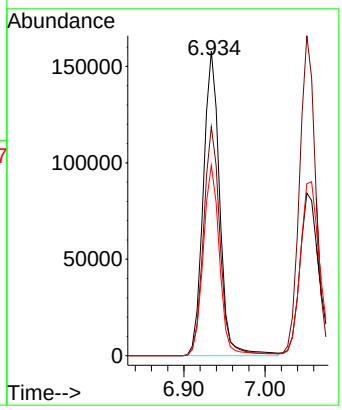
Tgt Ion: 79 Resp: 22141

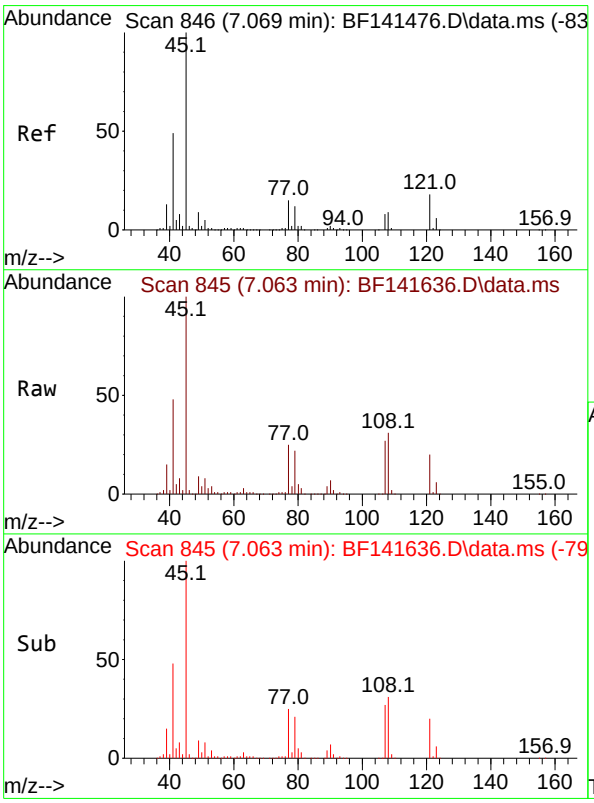
Ion	Ratio	Lower	Upper
79	100		
108	75.2	57.4	86.2
77	62.5	50.9	76.3

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

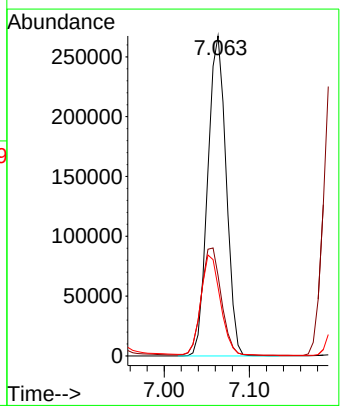


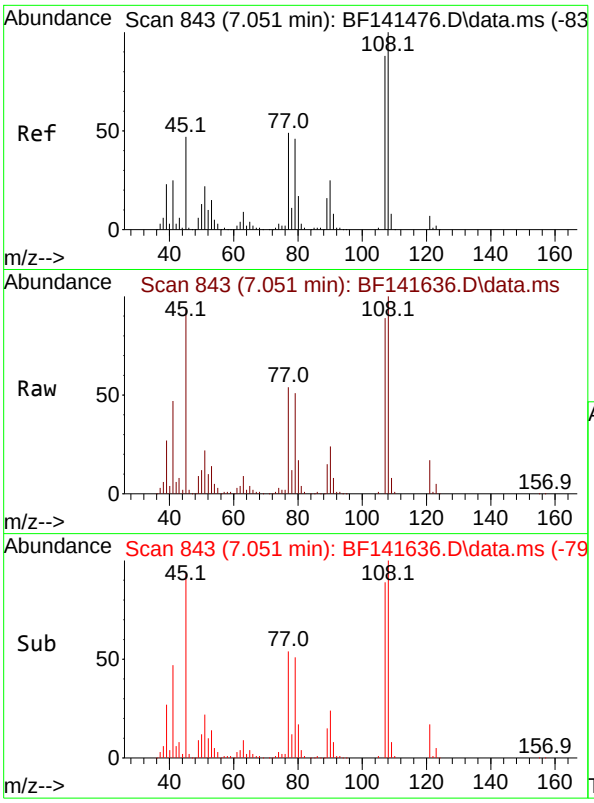


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.769 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 45 Resp: 401252

Ion	Ratio	Lower	Upper
45	100		
77	25.1	0.0	35.8
79	21.5	0.0	32.7





#17
2-Methylphenol
Concen: 44.511 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

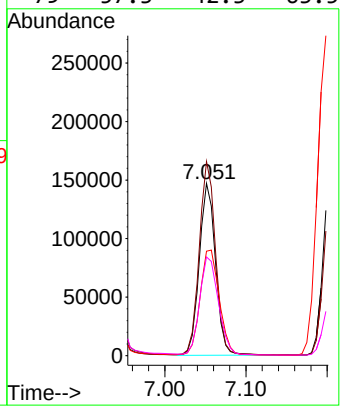
Tgt Ion:107 Resp: 20399

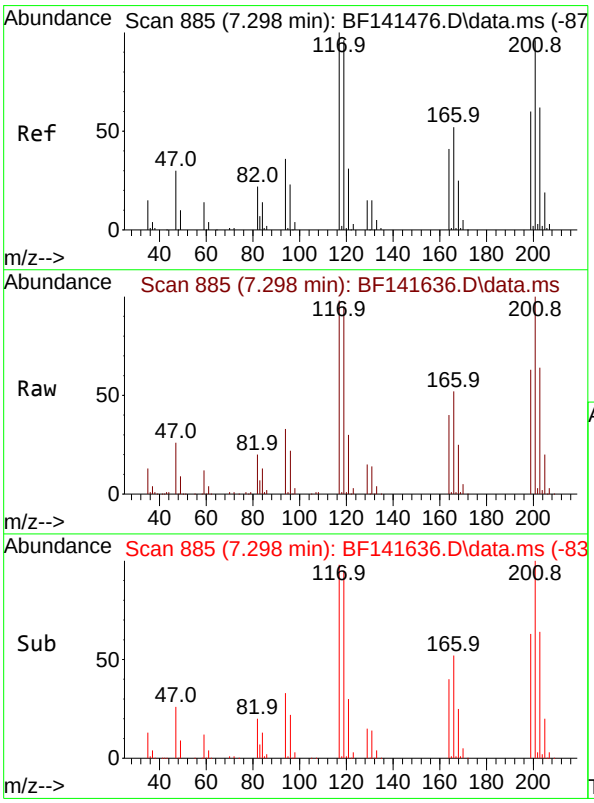
Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.6	136.0
77	60.6	44.4	66.6
79	57.3	42.3	63.5

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

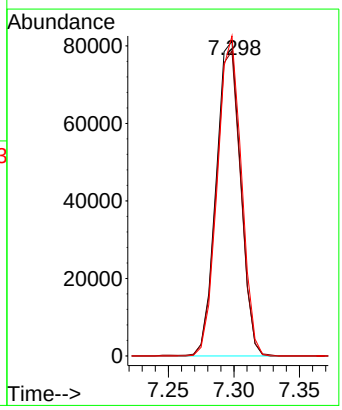


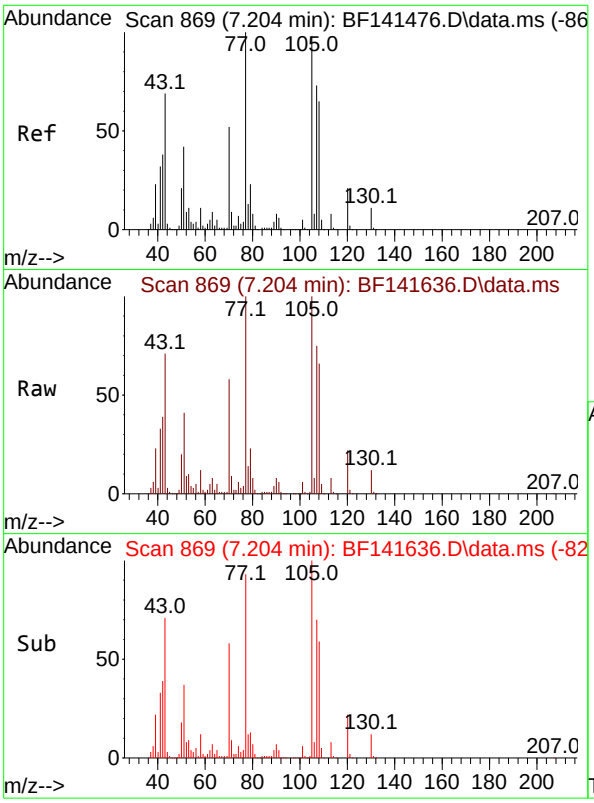


#18
Hexachloroethane
Concen: 44.938 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:117 Resp: 105061

Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.5	114.7
201	101.7	76.7	115.1

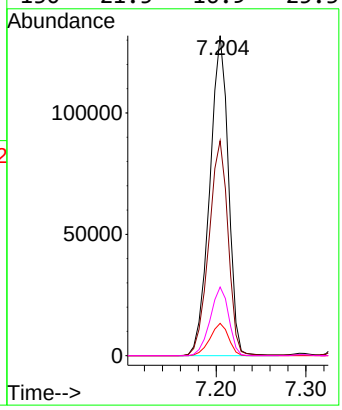




#19
n-Nitroso-di-n-propylamine
Concen: 46.447 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 70 Resp: 19032

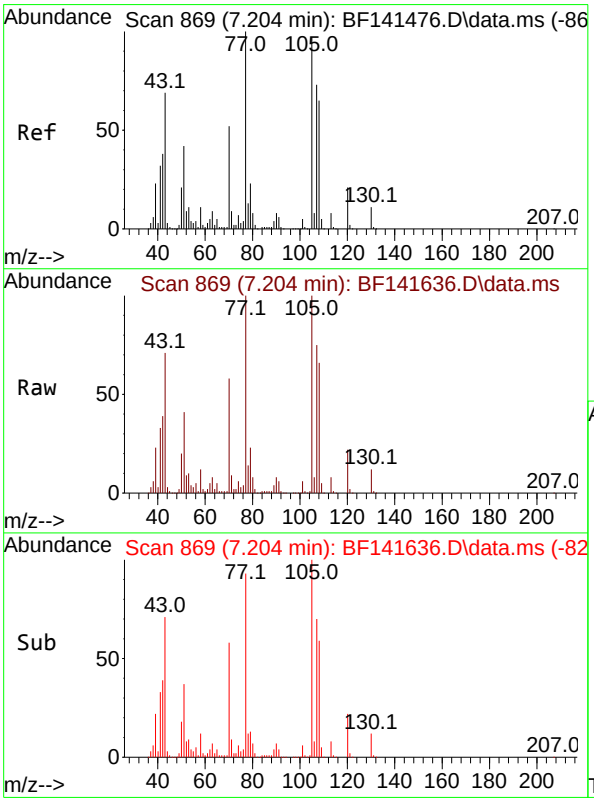
Ion	Ratio	Lower	Upper
70	100		
42	67.1	57.4	86.2
101	10.1	8.0	12.0
130	21.5	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

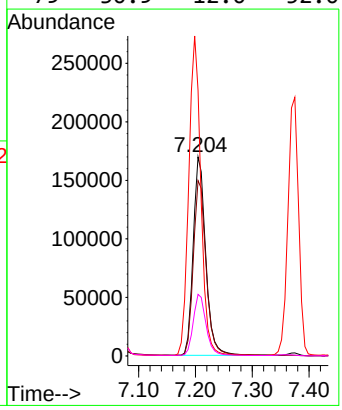
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

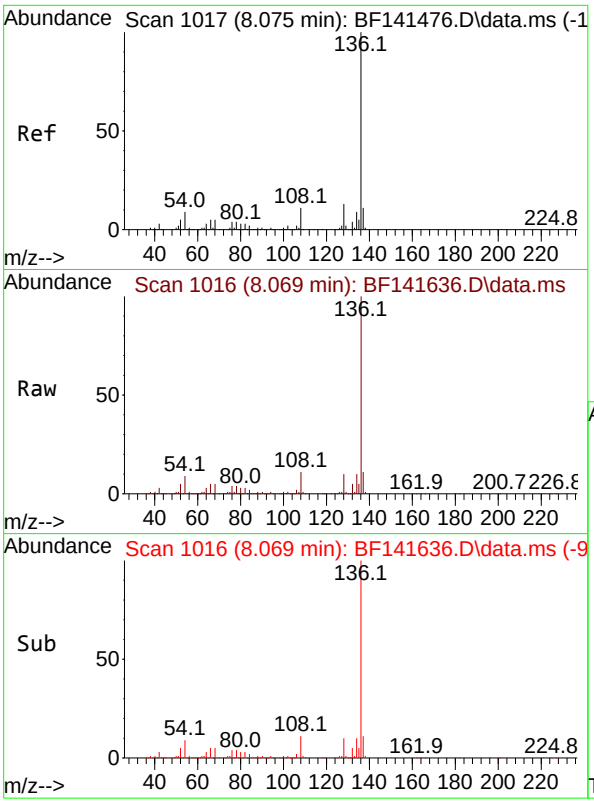


#20
3+4-Methylphenols
Concen: 44.867 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:107 Resp: 261327

Ion	Ratio	Lower	Upper
107	100		
108	88.1	68.5	108.5
77	133.5	116.5	156.5
79	30.9	12.0	52.0

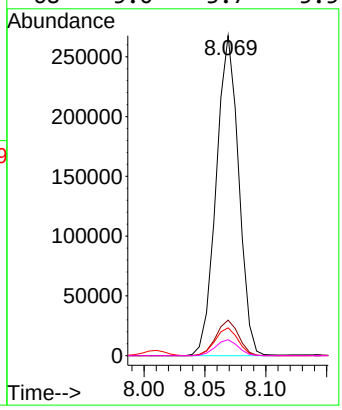




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:136 Resp: 34411

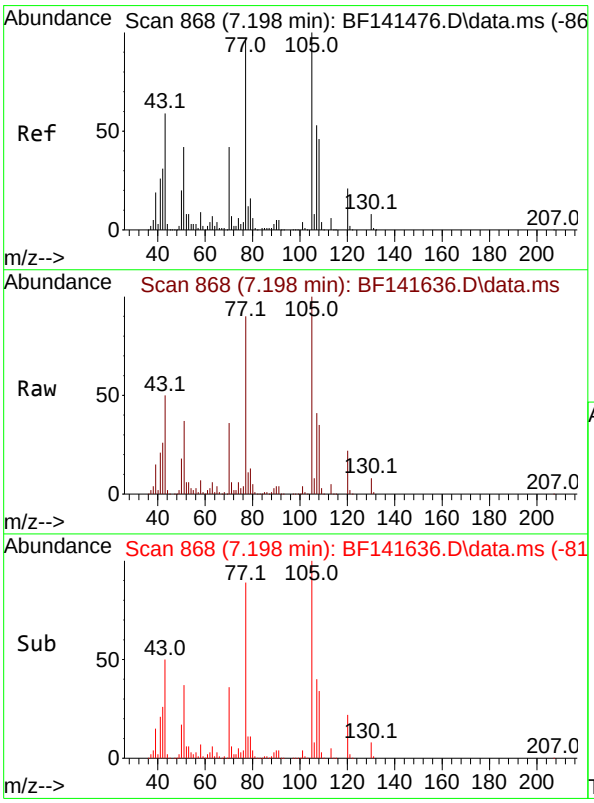
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	8.7	7.2	10.8
68	5.0	3.7	5.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

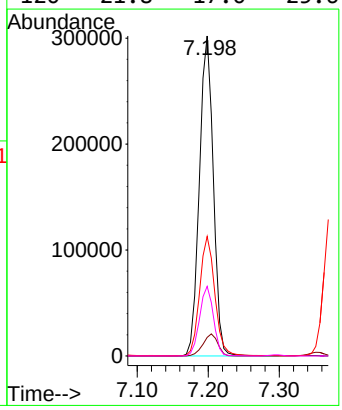
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

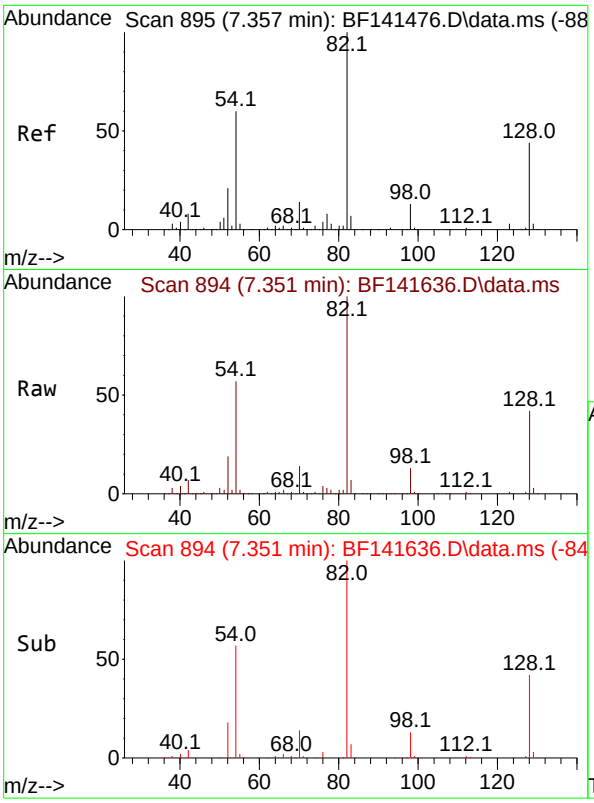


#22
Acetophenone
Concen: 48.352 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:105 Resp: 413898

Ion	Ratio	Lower	Upper
105	100		
71	5.8	5.7	8.5
51	37.4	33.7	50.5
120	21.8	17.0	25.6

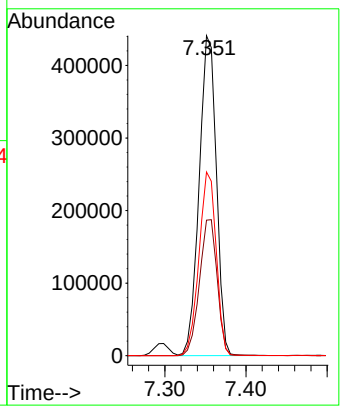




#23
Nitrobenzene-d5
Concen: 98.545 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 82 Resp: 65015

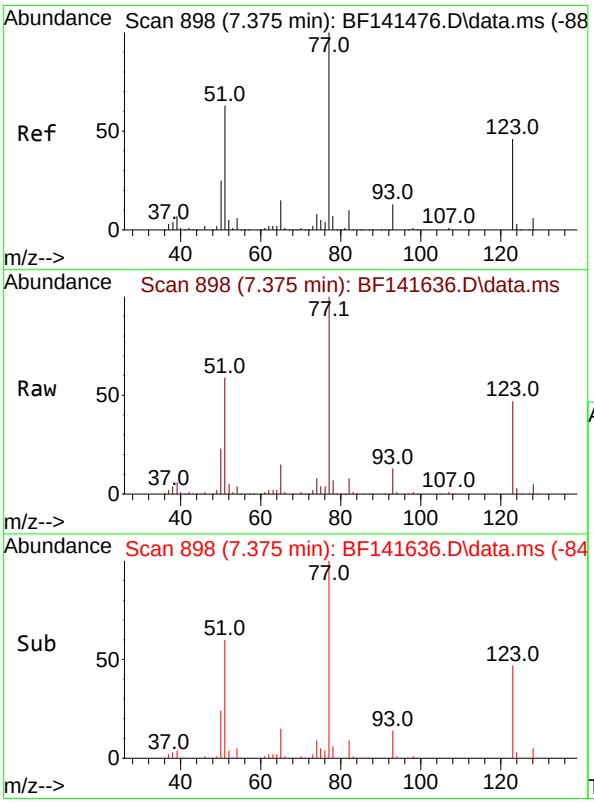
Ion	Ratio	Lower	Upper
82	100		
128	42.4	34.8	52.2
54	57.4	48.2	72.4



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

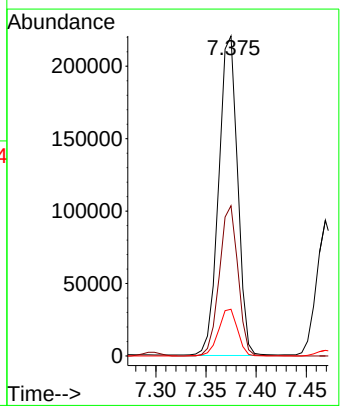
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

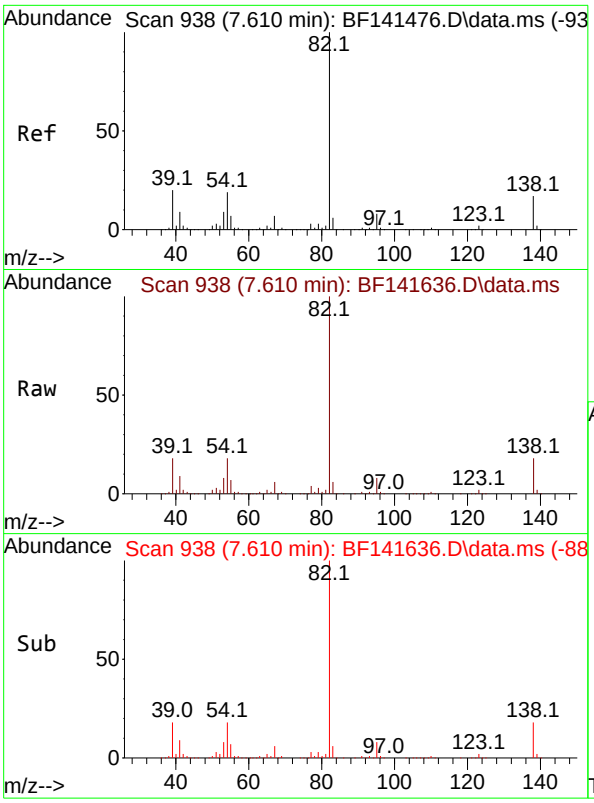


#24
Nitrobenzene
Concen: 44.866 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 77 Resp: 288642

Ion	Ratio	Lower	Upper
77	100		
123	47.0	36.9	55.3
65	14.6	11.9	17.9

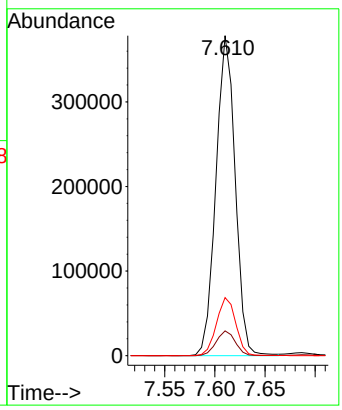




#25
Isophorone
Concen: 47.999 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 82 Resp: 50492

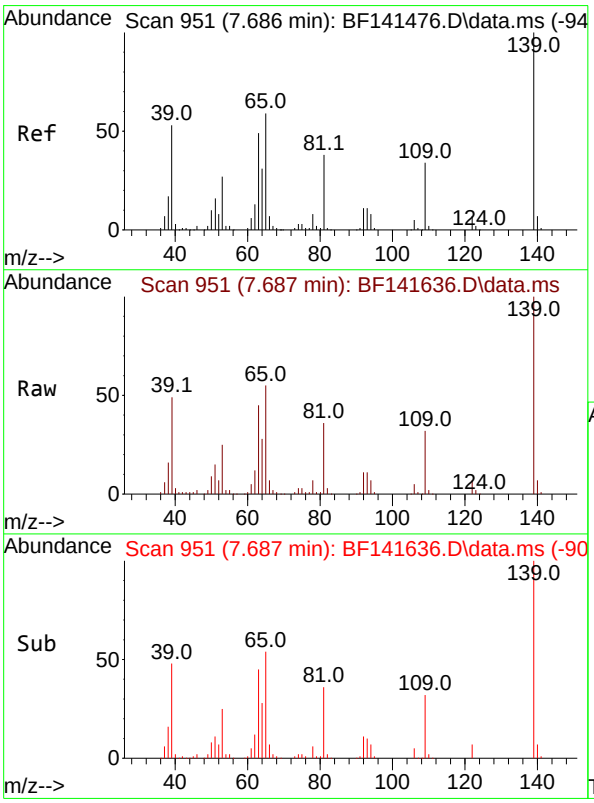
Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.2	13.9	20.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

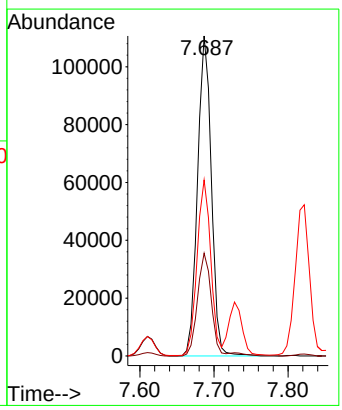
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

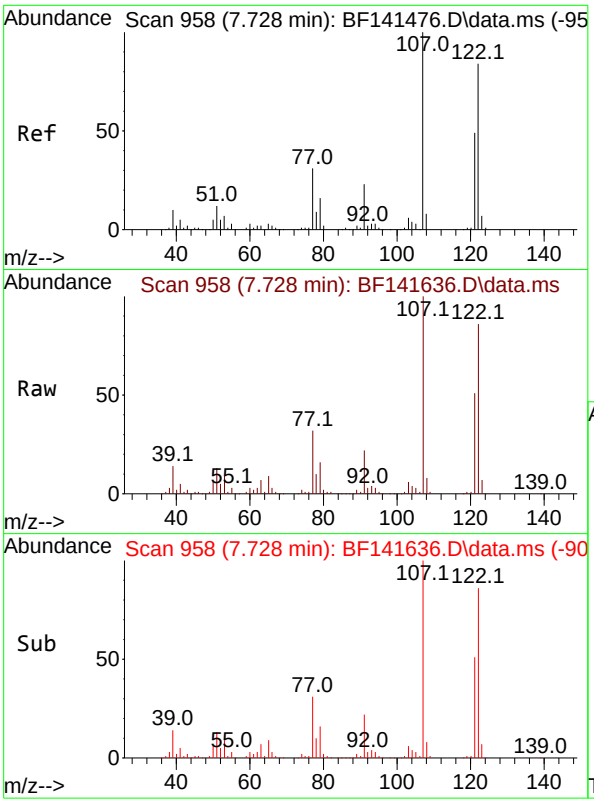


#26
2-Nitrophenol
Concen: 44.742 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:139 Resp: 143208

Ion	Ratio	Lower	Upper
139	100		
109	32.1	27.0	40.6
65	55.0	47.1	70.7

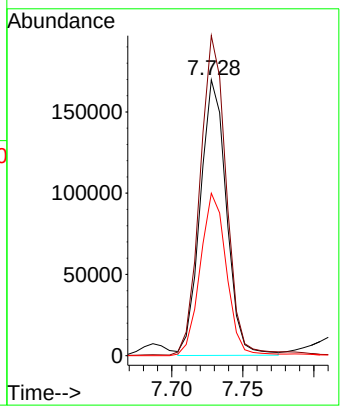




#27
2,4-Dimethylphenol
Concen: 58.159 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:122 Resp: 21746

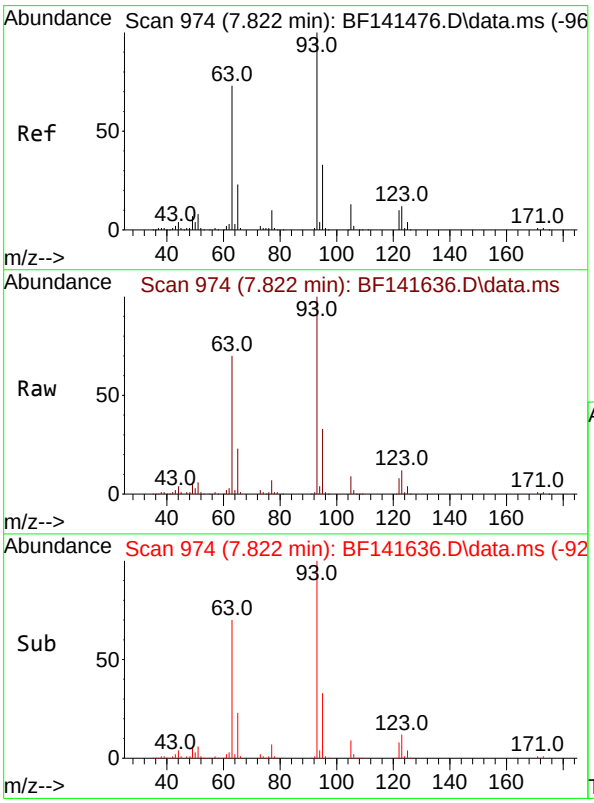
Ion	Ratio	Lower	Upper
122	100		
107	116.0	94.3	141.5
121	58.9	46.0	69.0



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

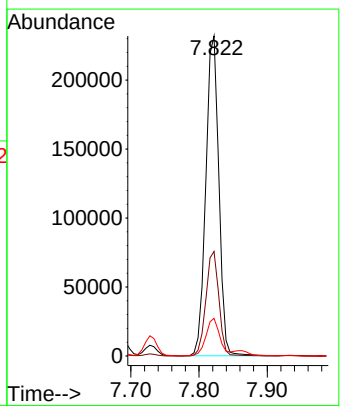
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

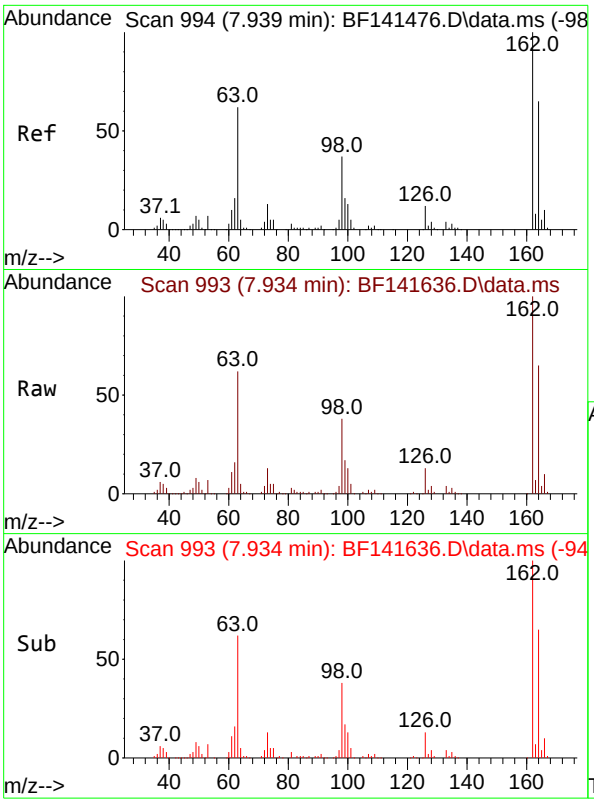


#28
bis(2-Chloroethoxy)methane
Concen: 45.728 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 93 Resp: 308243

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.1	39.1
123	11.7	9.5	14.3

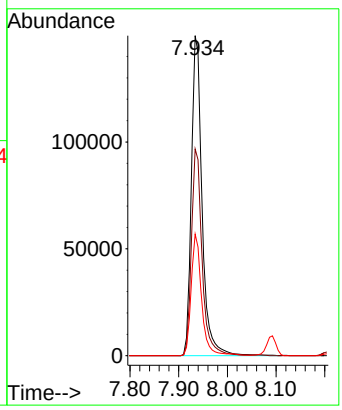




#29
2,4-Dichlorophenol
Concen: 45.412 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:162 Resp: 22942

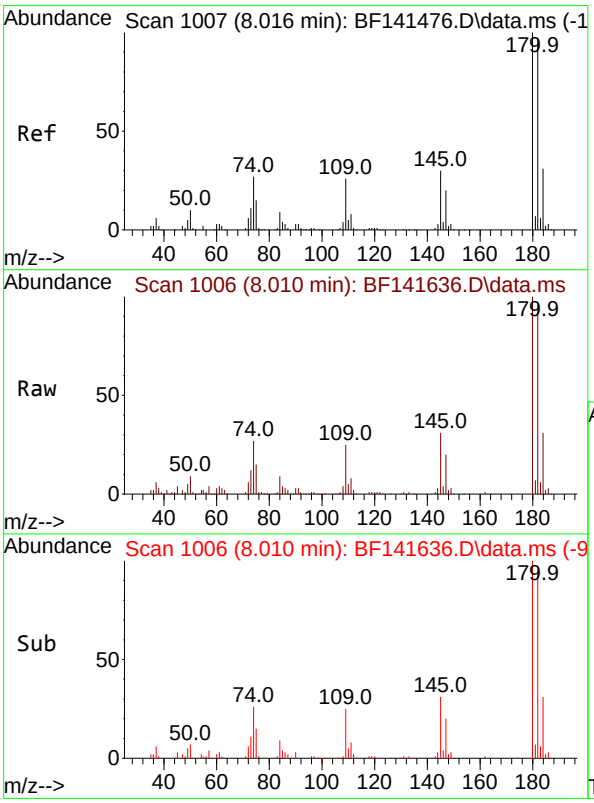
Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.6	84.6
98	38.0	17.2	57.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

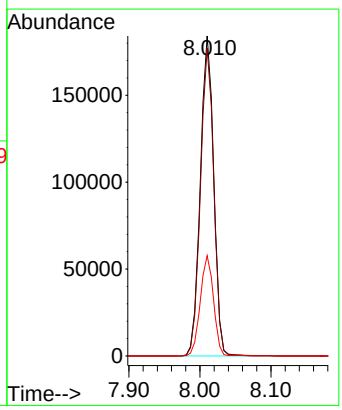
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

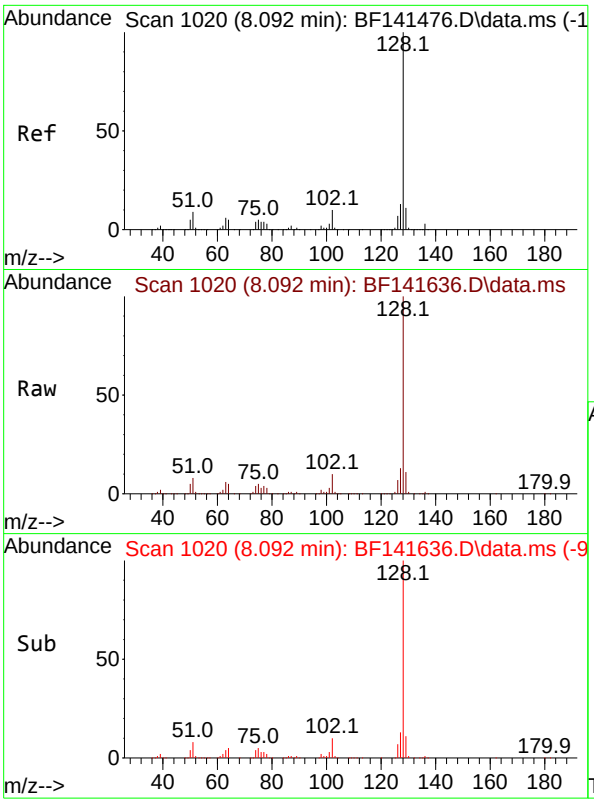


#30
1,2,4-Trichlorobenzene
Concen: 44.078 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:180 Resp: 242498

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.8	115.2
145	31.4	24.2	36.4





#31
Naphthalene
Concen: 43.465 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

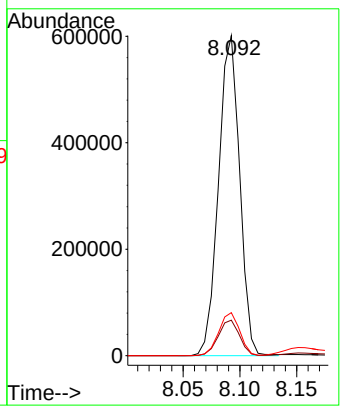
Tgt Ion:128 Resp: 77856

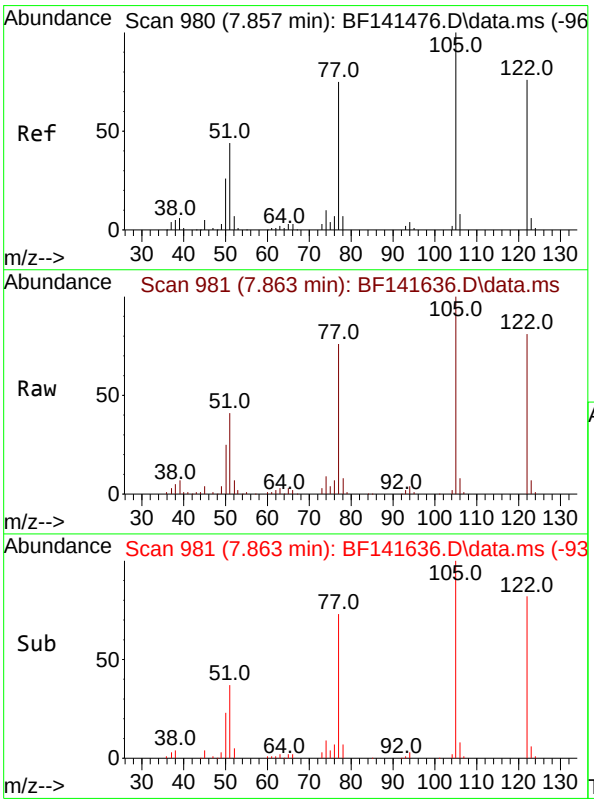
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.5	10.7	16.1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

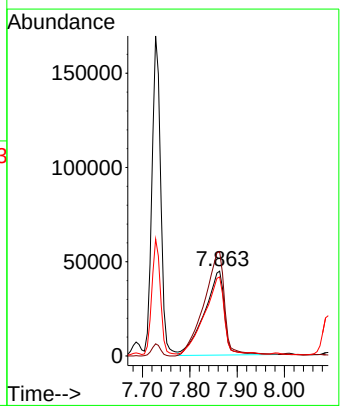


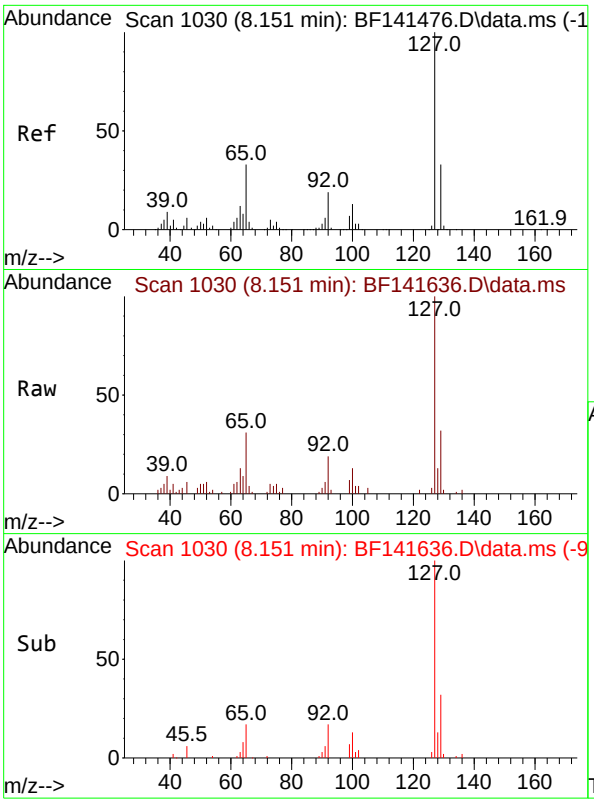


#32
Benzoic acid
Concen: 34.078 ng
RT: 7.863 min Scan# 981
Delta R.T. -0.029 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:122 Resp: 132353

Ion	Ratio	Lower	Upper
122	100		
105	123.1	106.5	146.5
77	93.2	76.3	116.3

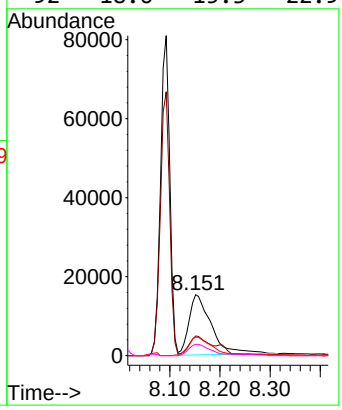




#33
4-Chloroaniline
Concen: 7.586 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:127 Resp: 4744

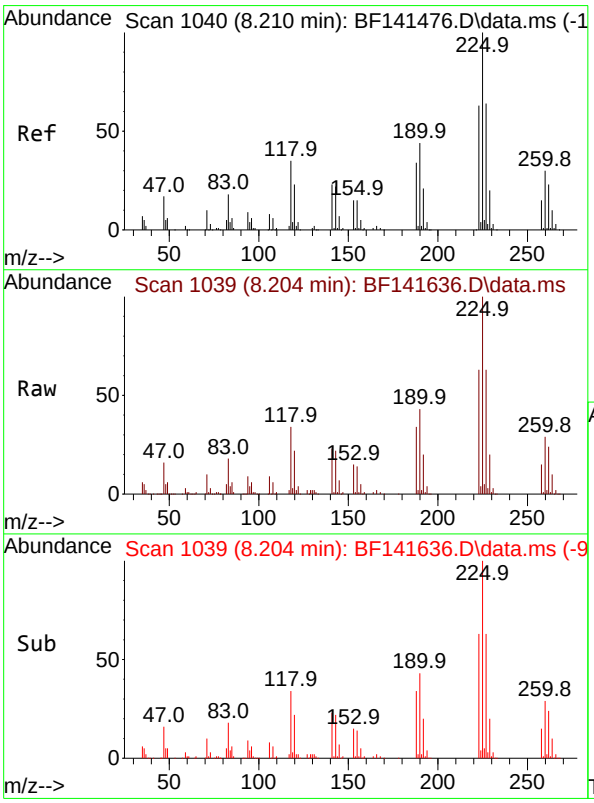
Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.5	39.7
65	30.6	26.4	39.6
92	18.6	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

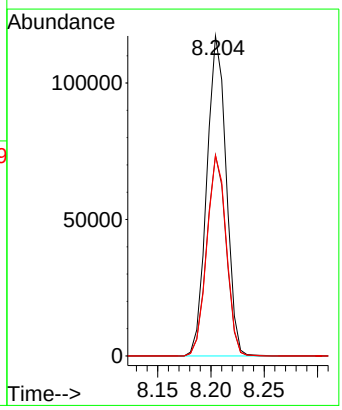
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

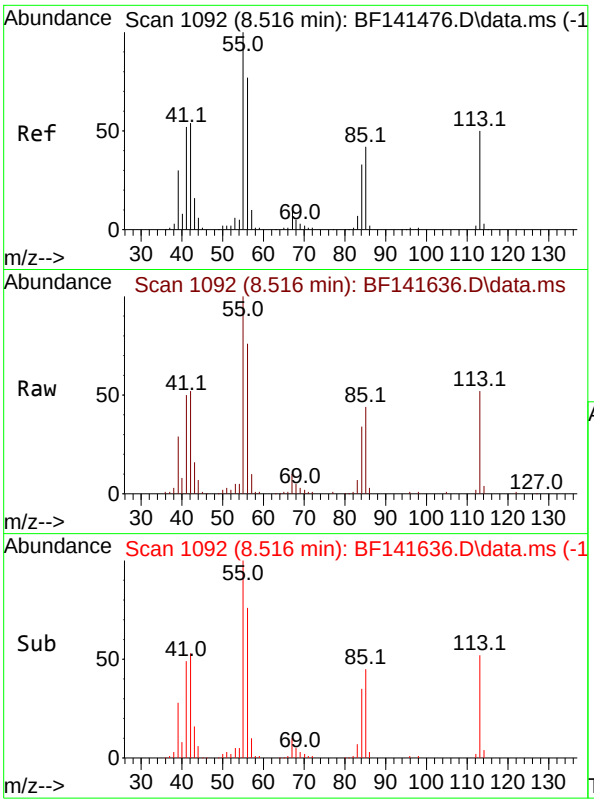


#34
Hexachlorobutadiene
Concen: 44.899 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:225 Resp: 148293

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1
227	62.7	51.0	76.6

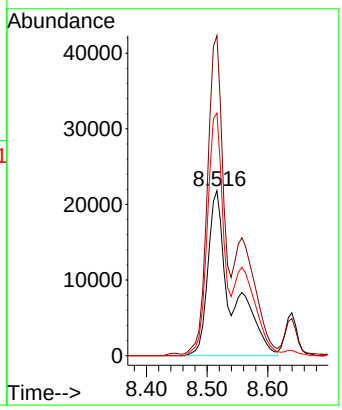




#35
Caprolactam
Concen: 38.934 ng m
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:113 Resp: 5988

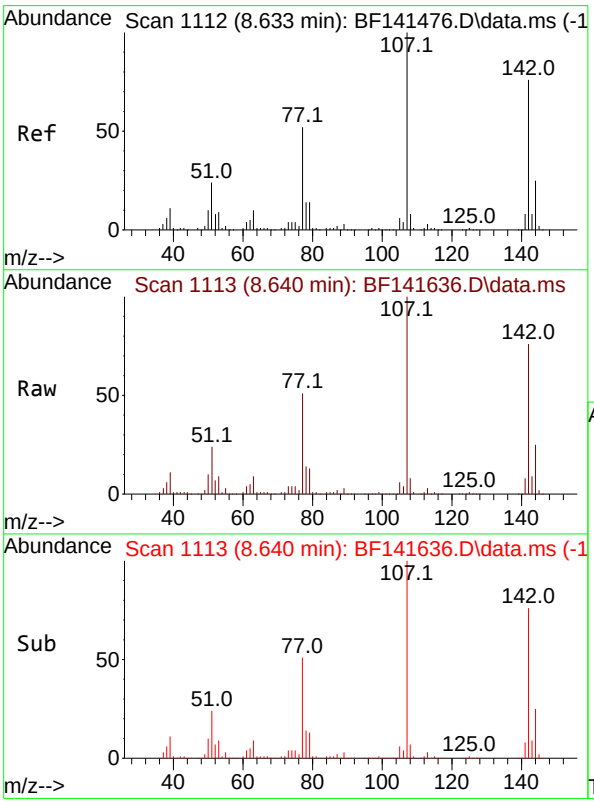
Ion	Ratio	Lower	Upper
113	100		
55	194.1	180.8	220.8
56	147.1	133.6	173.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

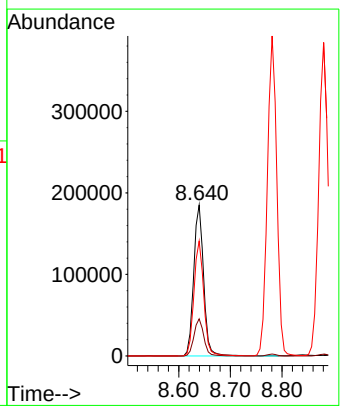
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

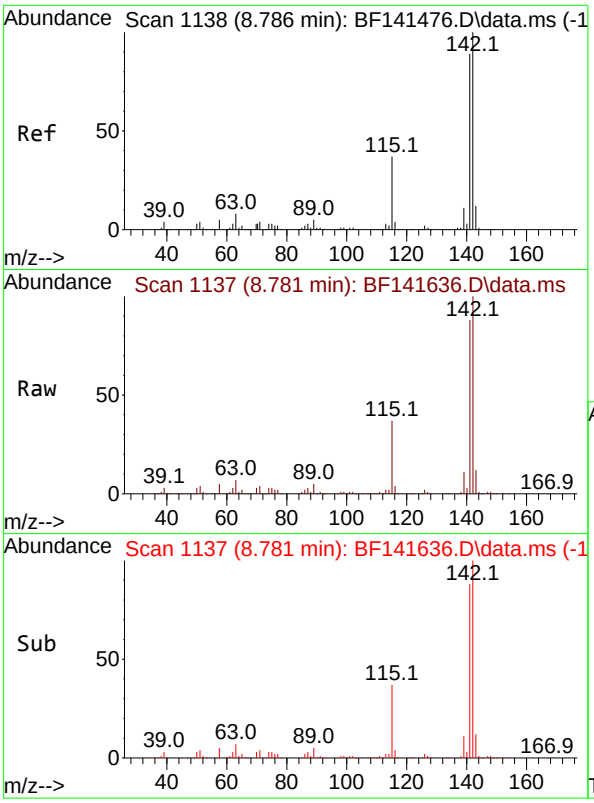


#36
4-Chloro-3-methylphenol
Concen: 44.044 ng
RT: 8.640 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:107 Resp: 246482

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.7	29.5
142	76.2	60.8	91.2

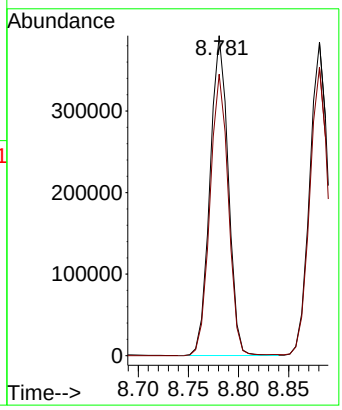




#37
2-Methylnaphthalene
Concen: 42.725 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:142 Resp: 49800

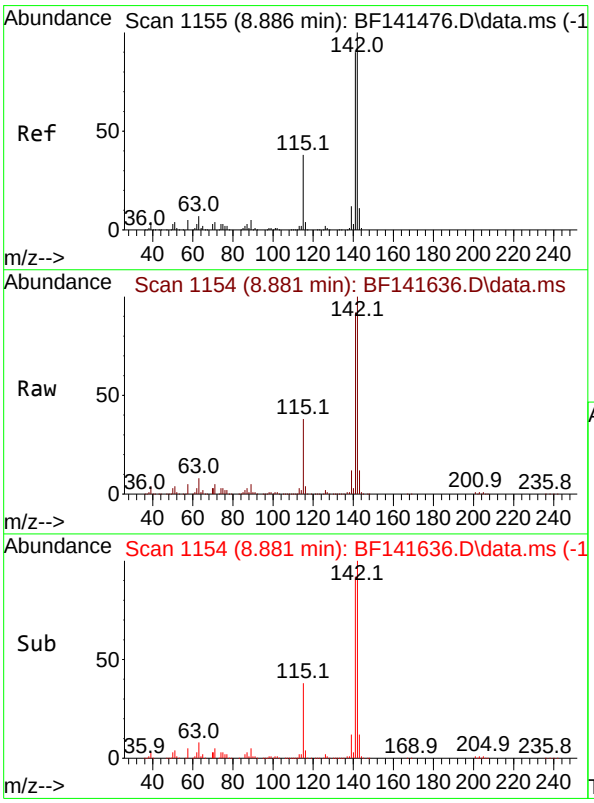
Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.2	106.8



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

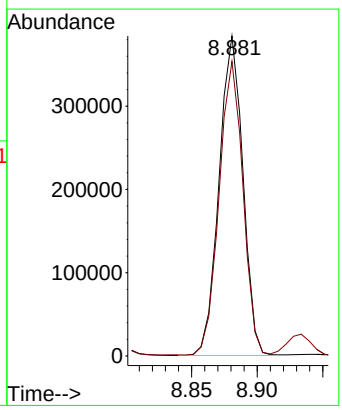
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

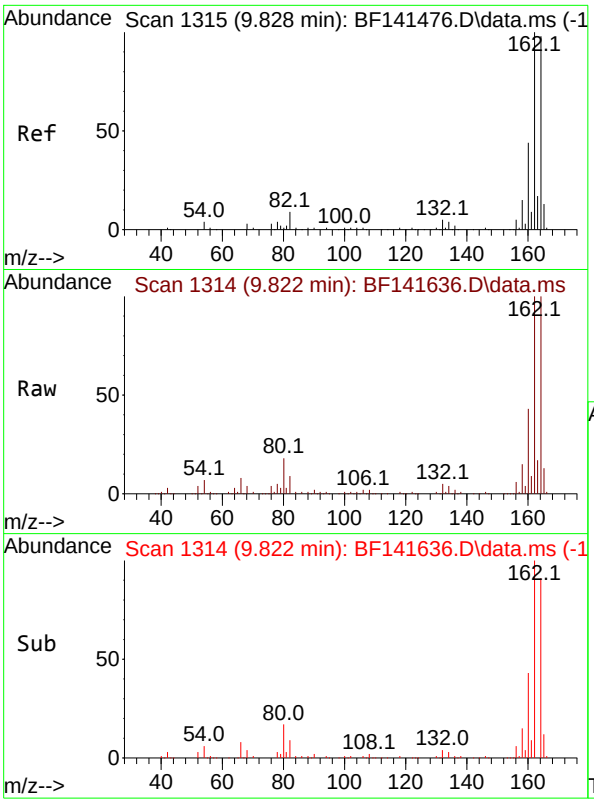


#38
1-Methylnaphthalene
Concen: 42.922 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:142 Resp: 484567

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.1	108.1

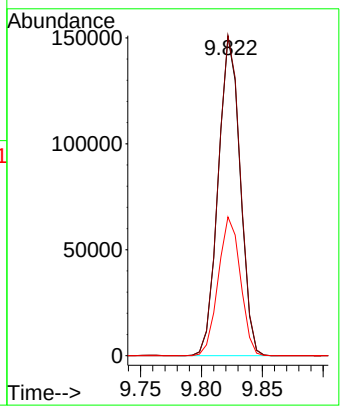




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:164 Resp: 18870

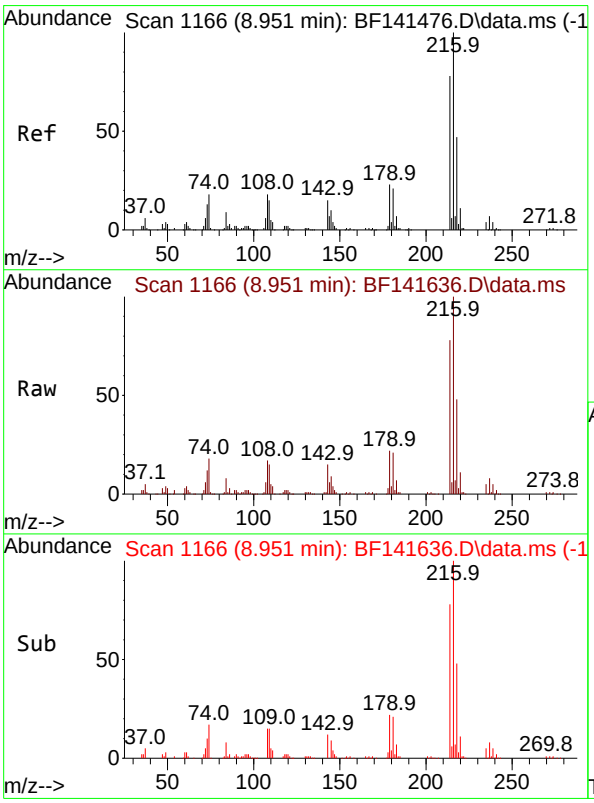
Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.3	121.9
160	43.5	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

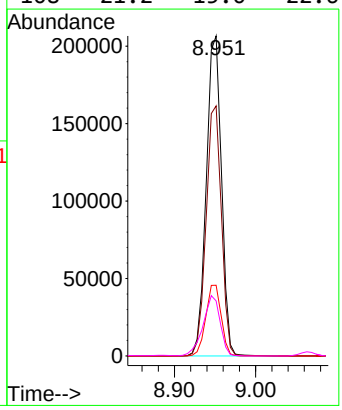
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

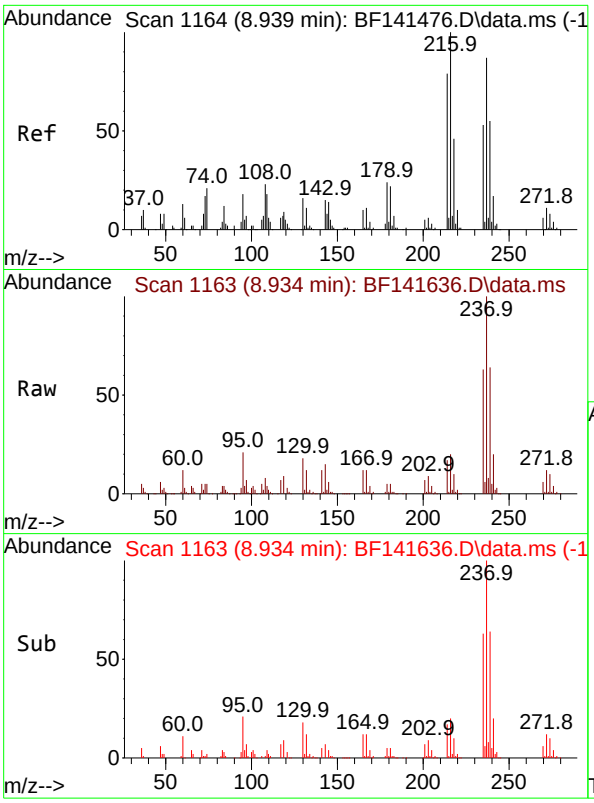


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.056 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:216 Resp: 267826

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.3	93.5
179	22.4	18.0	27.0
108	21.2	15.0	22.6

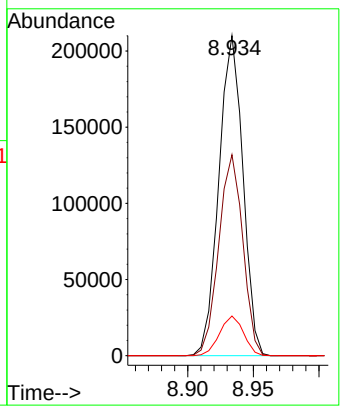




#41
Hexachlorocyclopentadiene
Concen: 147.448 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:237 Resp: 26775

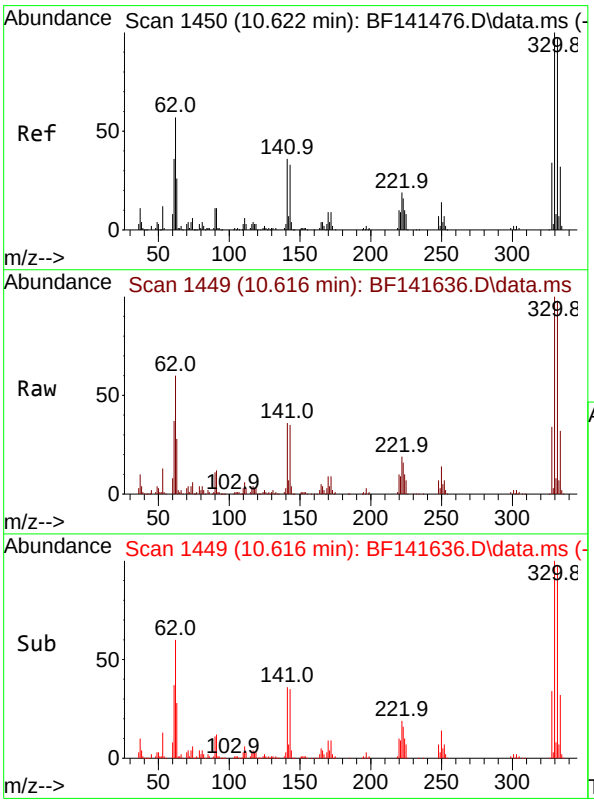
Ion	Ratio	Lower	Upper
237	100		
235	62.8	41.4	81.4
272	12.4	0.0	32.4



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

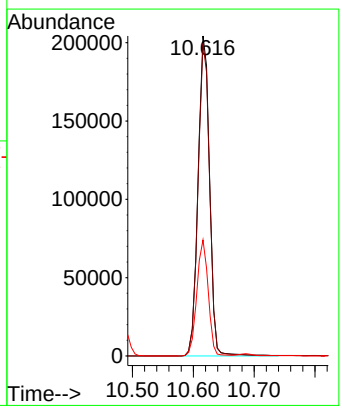
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

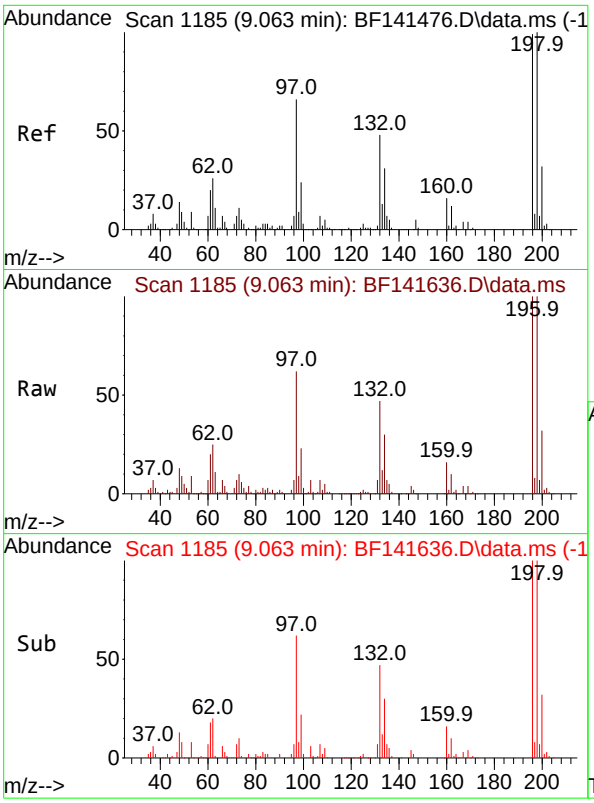


#42
2,4,6-Tribromophenol
Concen: 141.827 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:330 Resp: 268857

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.5	117.7
141	35.7	31.0	46.4

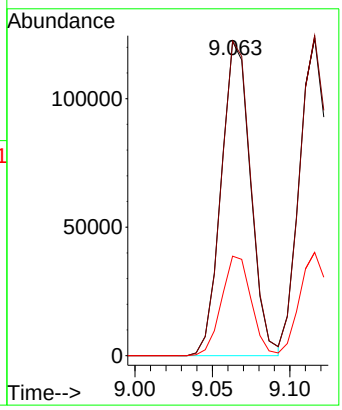




#43
2,4,6-Trichlorophenol
Concen: 45.737 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:196 Resp: 16138

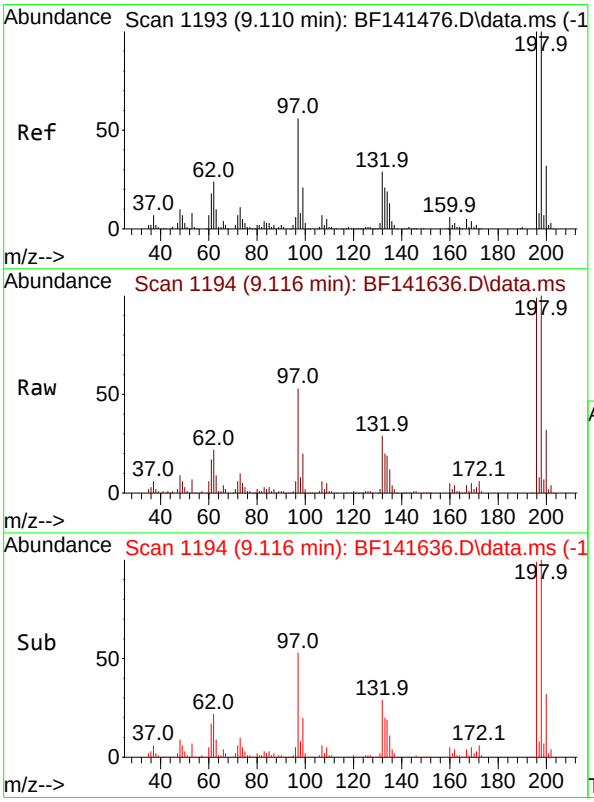
Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.6	121.0
200	31.7	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

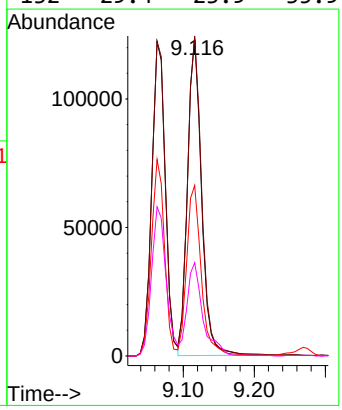
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

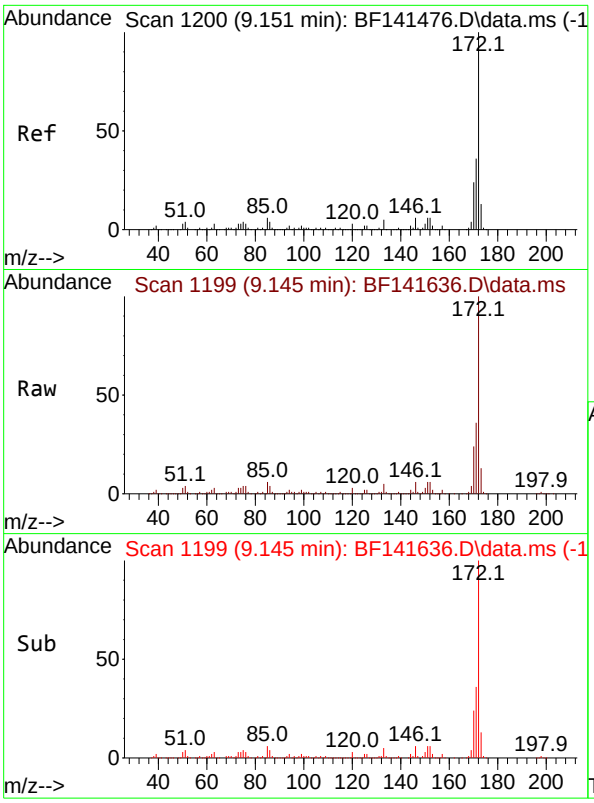


#44
2,4,5-Trichlorophenol
Concen: 44.341 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:196 Resp: 169569

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.8	119.8
97	53.7	44.8	67.2
132	29.4	23.9	35.9

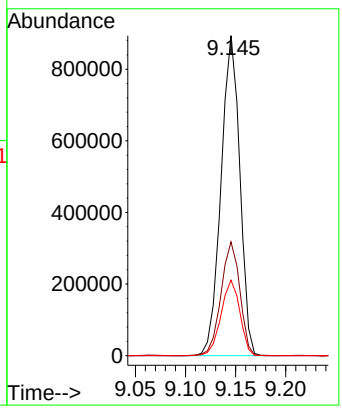




#45
2-Fluorobiphenyl
Concen: 95.022 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:172 Resp: 116390

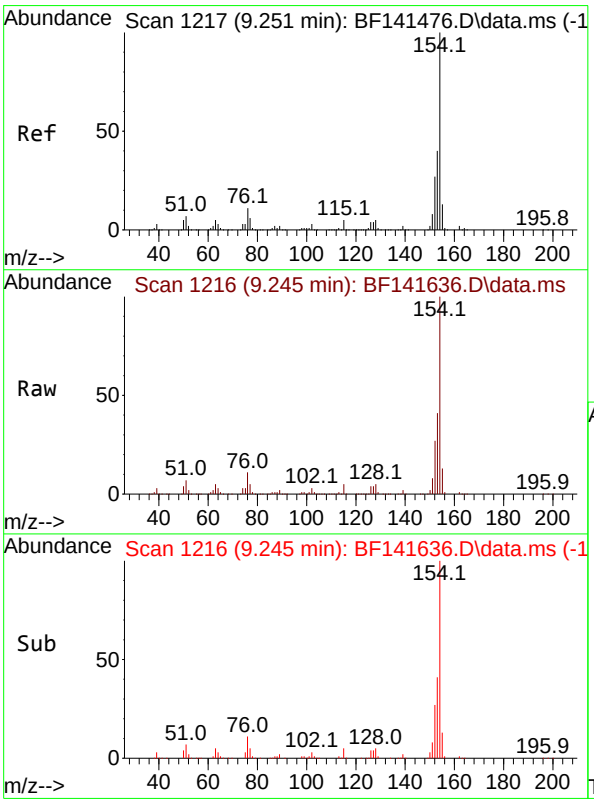
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.6	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

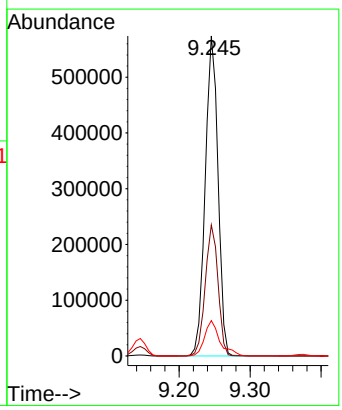
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

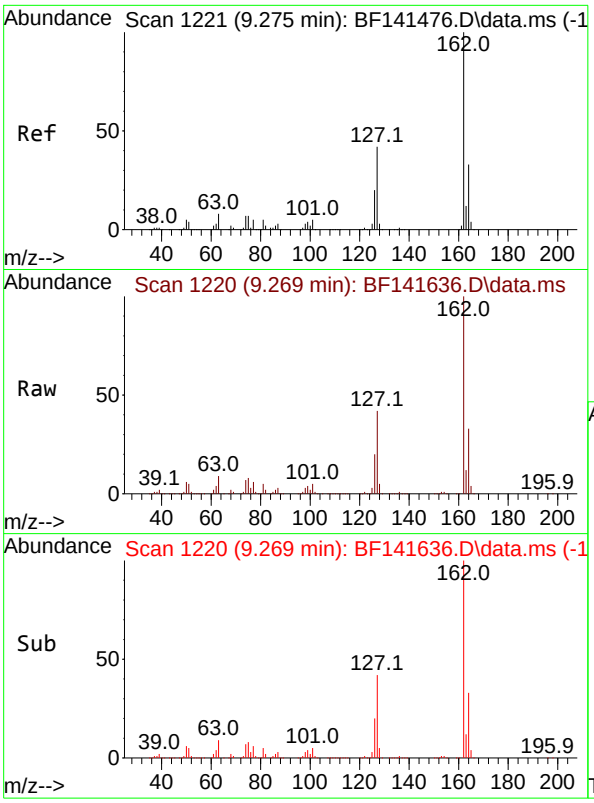


#46
1,1'-Biphenyl
Concen: 49.266 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:154 Resp: 720778

Ion	Ratio	Lower	Upper
154	100		
153	41.0	20.4	60.4
76	11.1	0.0	30.8

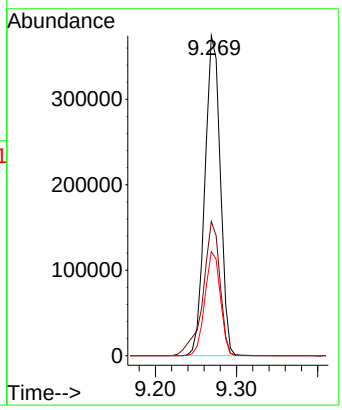




#47
2-Chloronaphthalene
Concen: 45.535 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:162 Resp: 49263

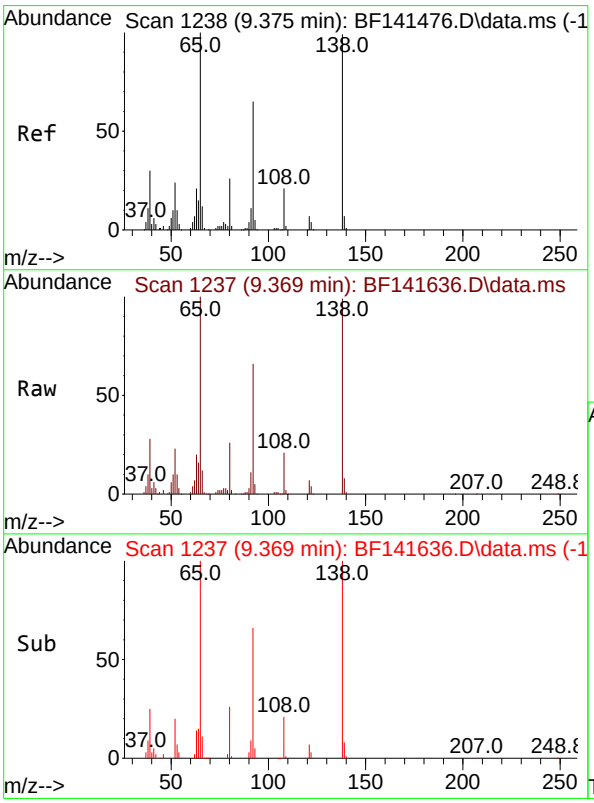
Ion	Ratio	Lower	Upper
162	100		
127	42.0	34.1	51.1
164	32.6	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

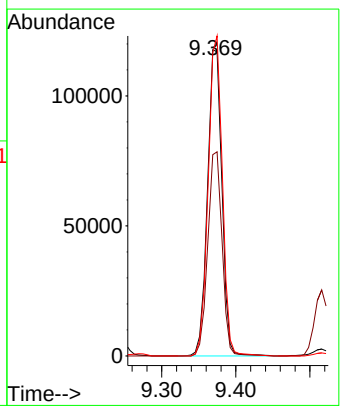
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

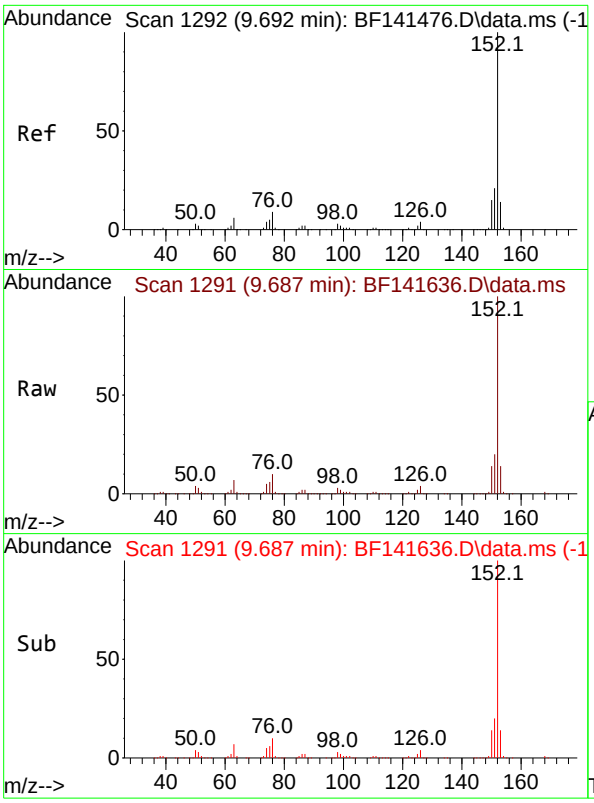


#48
2-Nitroaniline
Concen: 43.869 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 65 Resp: 159276

Ion	Ratio	Lower	Upper
65	100		
92	65.7	52.2	78.2
138	98.9	79.5	119.3

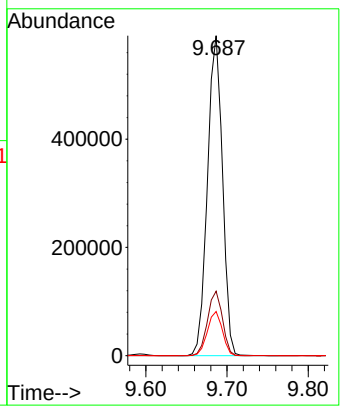




#49
Acenaphthylene
Concen: 47.086 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:152 Resp: 75769

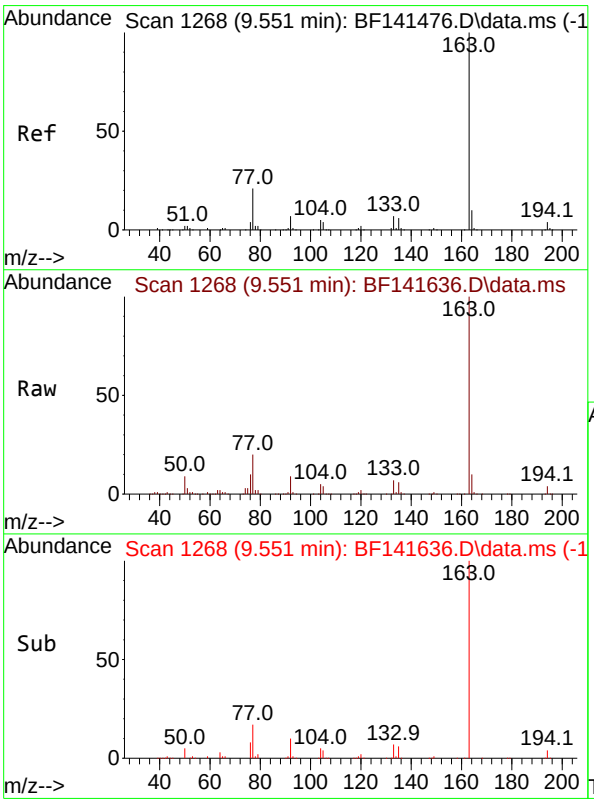
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6
153	13.8	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

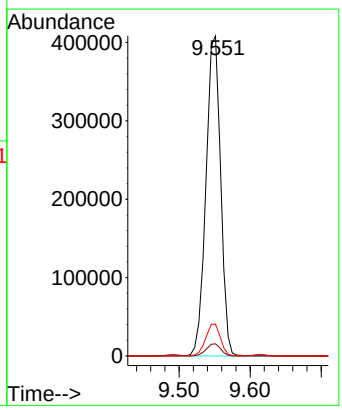
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

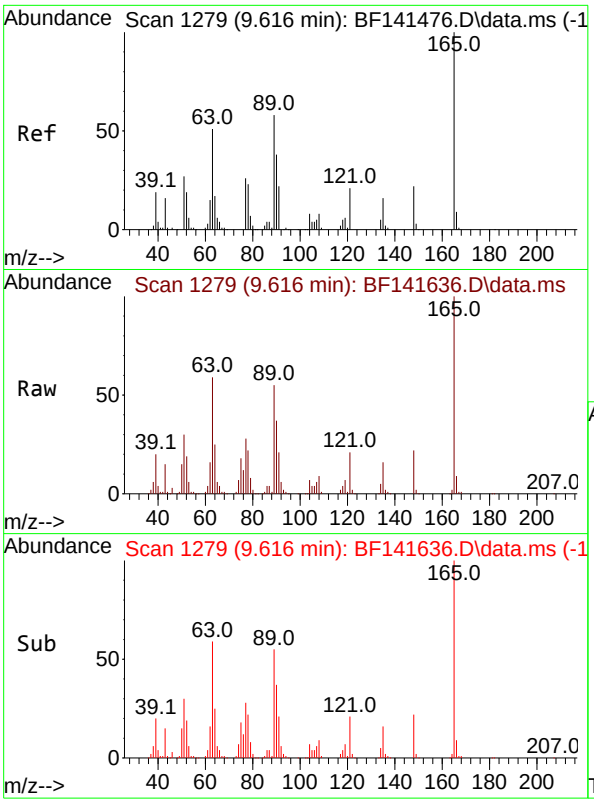


#50
Dimethylphthalate
Concen: 45.846 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:163 Resp: 587334

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.0	7.9	11.9





#51
2,6-Dinitrotoluene
Concen: 46.325 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

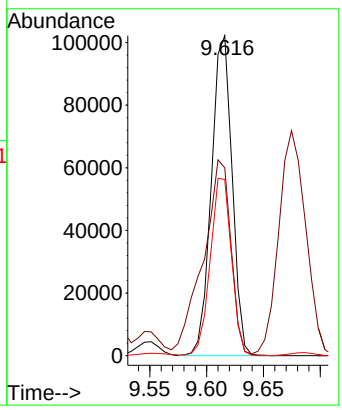
Tgt Ion:165 Resp: 12973

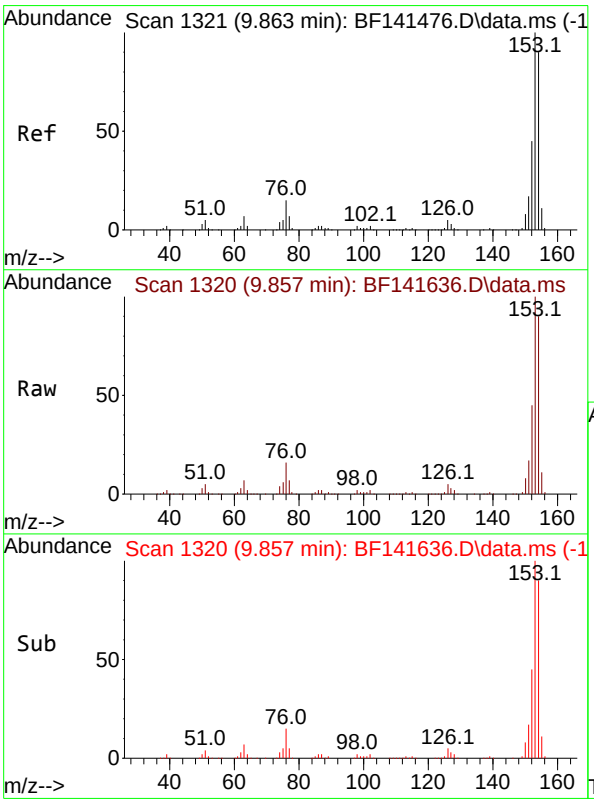
Ion	Ratio	Lower	Upper
165	100		
63	58.7	49.4	74.0
89	55.1	46.5	69.7

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

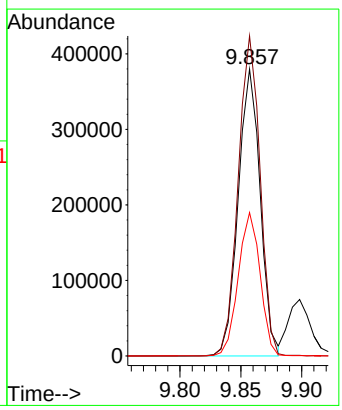


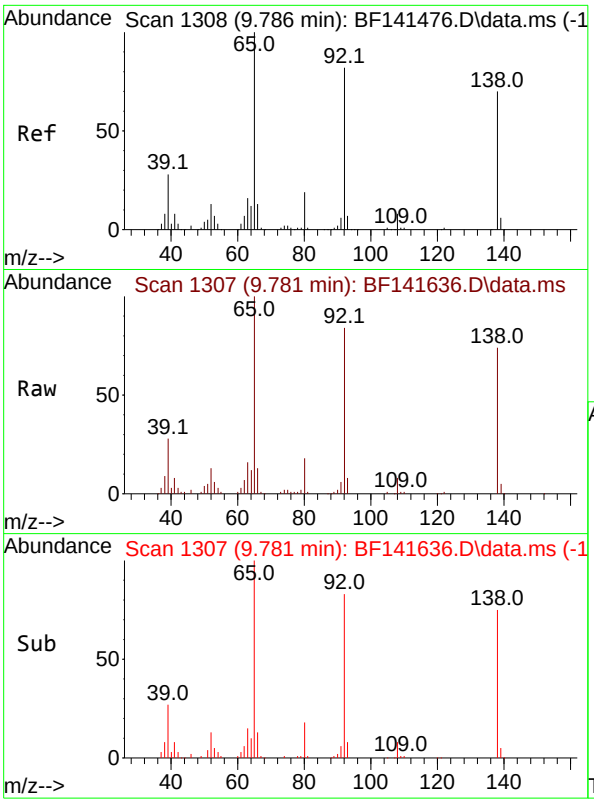


#52
Acenaphthene
Concen: 44.175 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:154 Resp: 477895

Ion	Ratio	Lower	Upper
154	100		
153	111.6	89.2	133.8
152	50.0	39.8	59.8





#53
3-Nitroaniline
Concen: 17.475 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

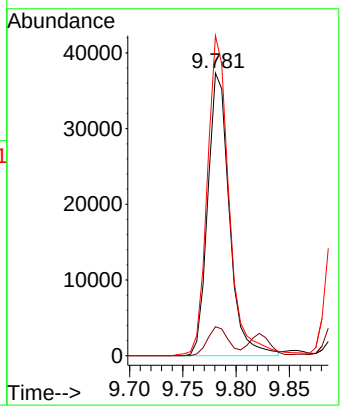
Tgt Ion:138 Resp: 5267

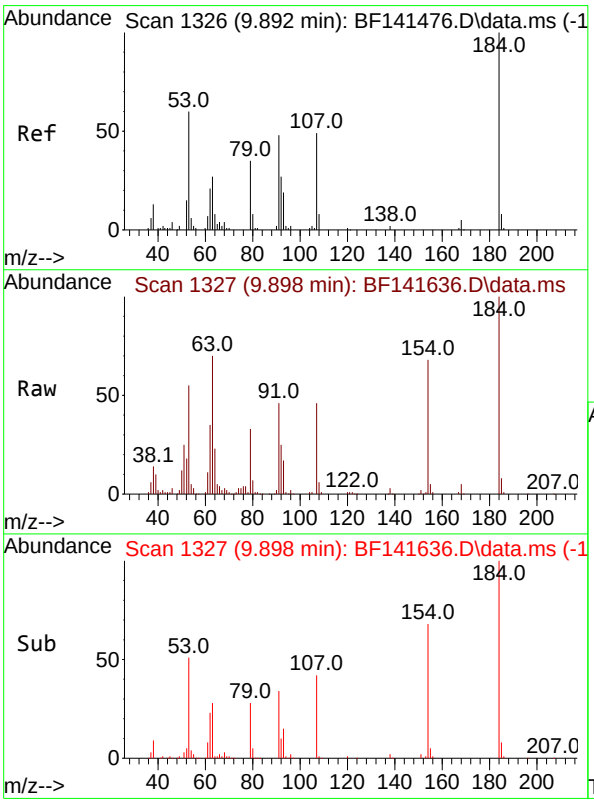
Ion	Ratio	Lower	Upper
138	100		
108	10.2	9.0	13.4
92	113.3	93.7	140.5

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

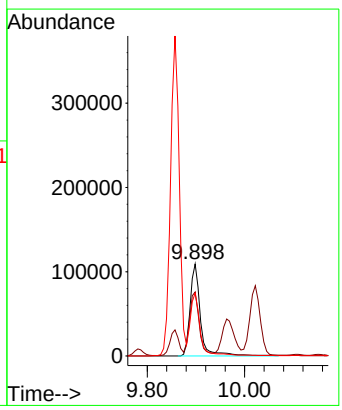


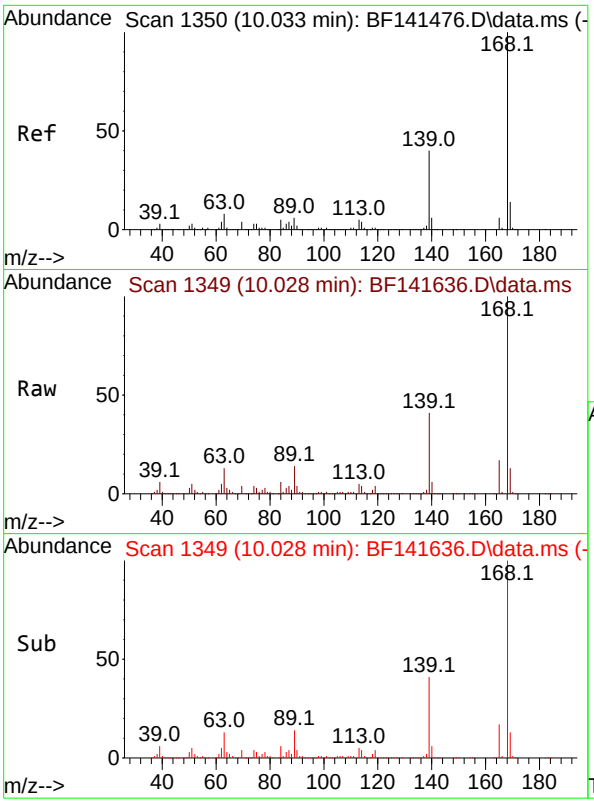


#54
2,4-Dinitrophenol
Concen: 97.264 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:184 Resp: 161892

Ion	Ratio	Lower	Upper
184	100		
63	69.5	61.0	91.6
154	68.4	59.9	89.9

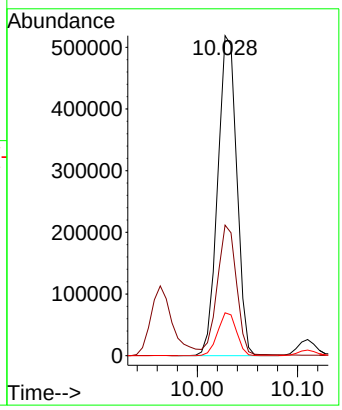




#55
Dibenzofuran
Concen: 43.083 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:168 Resp: 68412

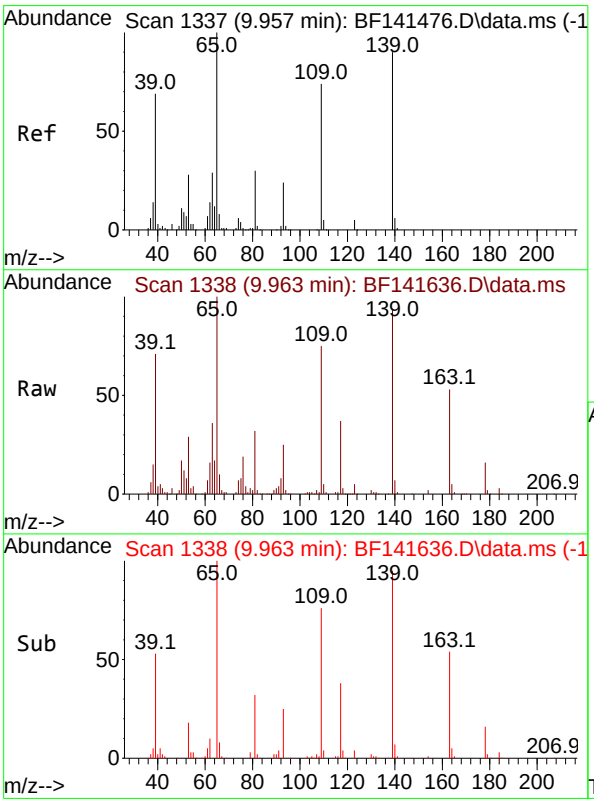
Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.7	49.1
169	13.4	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

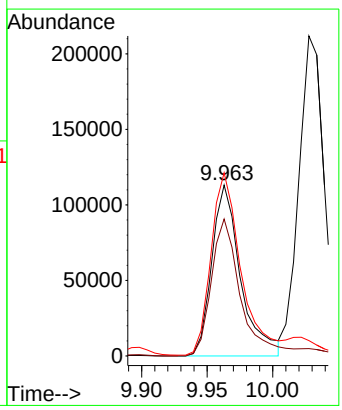
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

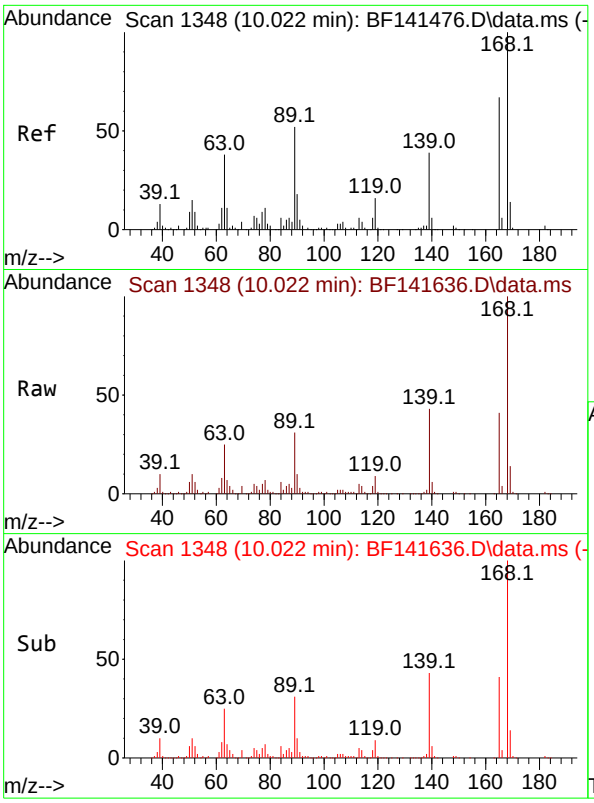


#56
4-Nitrophenol
Concen: 77.535 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:139 Resp: 173490

Ion	Ratio	Lower	Upper
139	100		
109	80.1	62.0	102.0
65	107.2	91.2	131.2

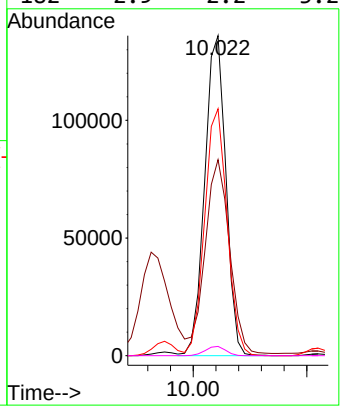




#57
2,4-Dinitrotoluene
Concen: 47.056 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:165 Resp: 17543

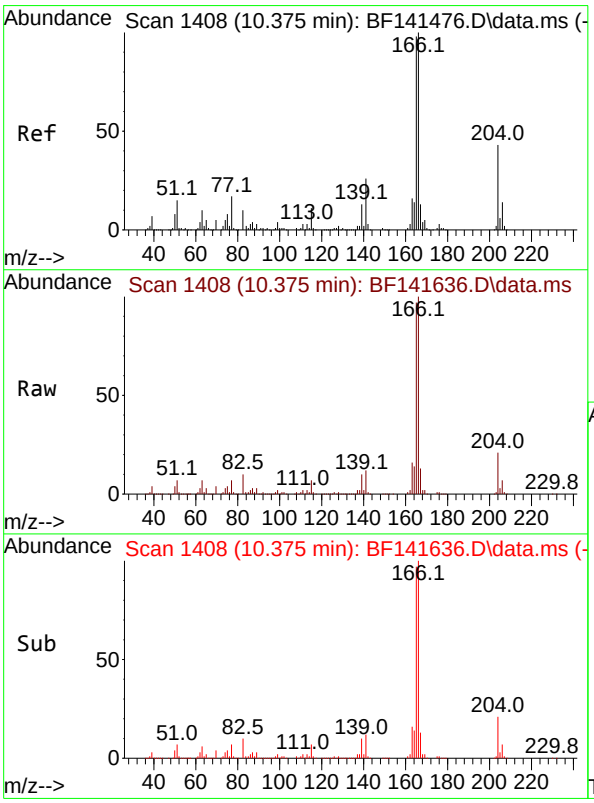
Ion	Ratio	Lower	Upper
165	100		
63	61.3	46.4	69.6
89	77.2	61.8	92.6
182	2.9	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

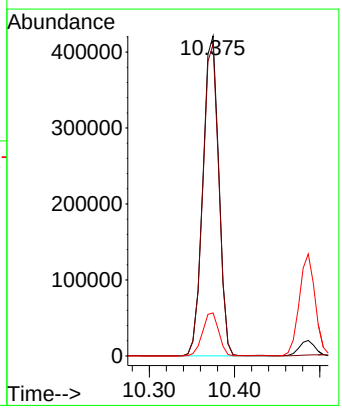
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

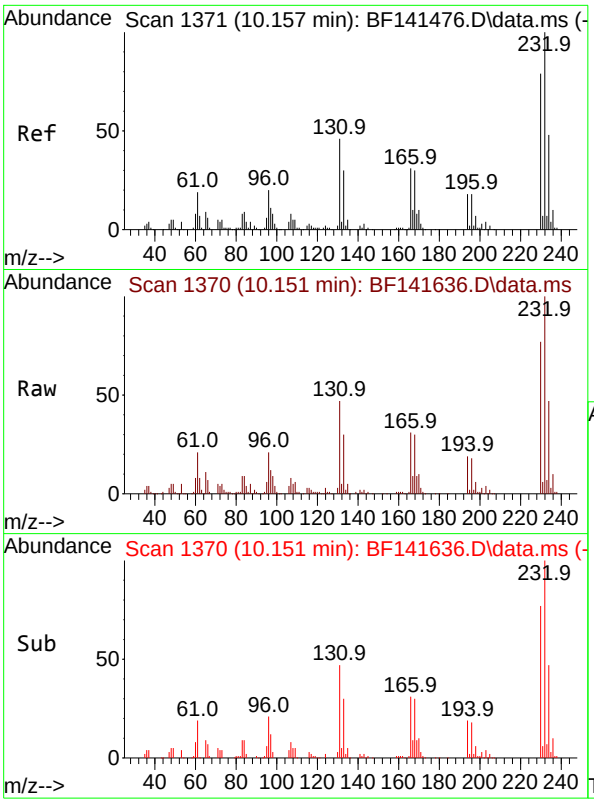


#58
Fluorene
Concen: 44.481 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:166 Resp: 546127

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.2	117.2
167	13.5	10.7	16.1

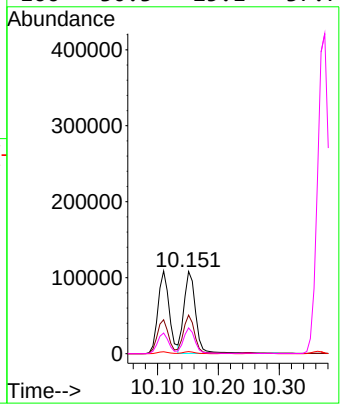




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.667 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:232 Resp: 14376

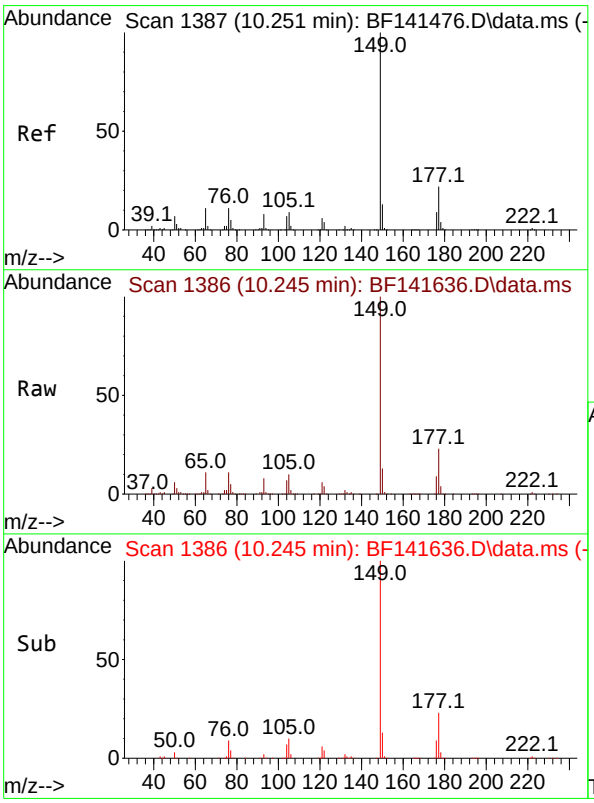
Ion	Ratio	Lower	Upper
232	100		
131	46.5	39.2	58.8
130	2.5	2.1	3.1
166	30.3	25.1	37.7



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

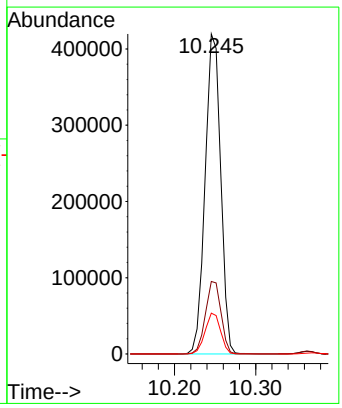
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

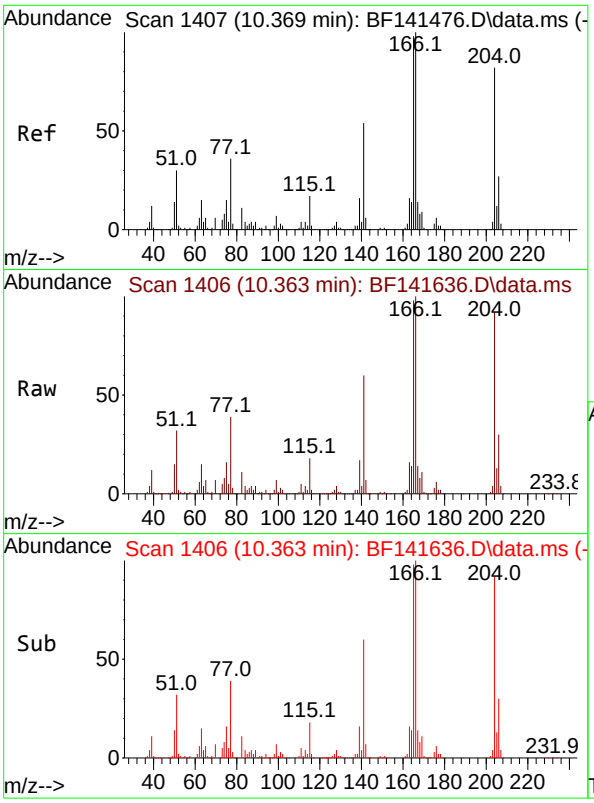


#60
Diethylphthalate
Concen: 44.254 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 557799

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.8	26.6
150	12.8	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 44.392 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

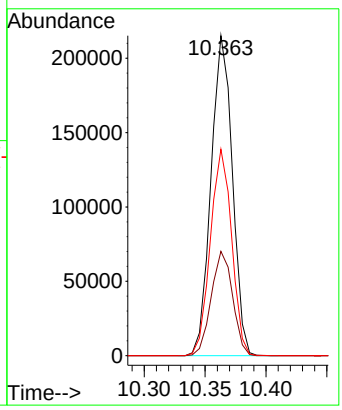
Tgt Ion:204 Resp: 26221

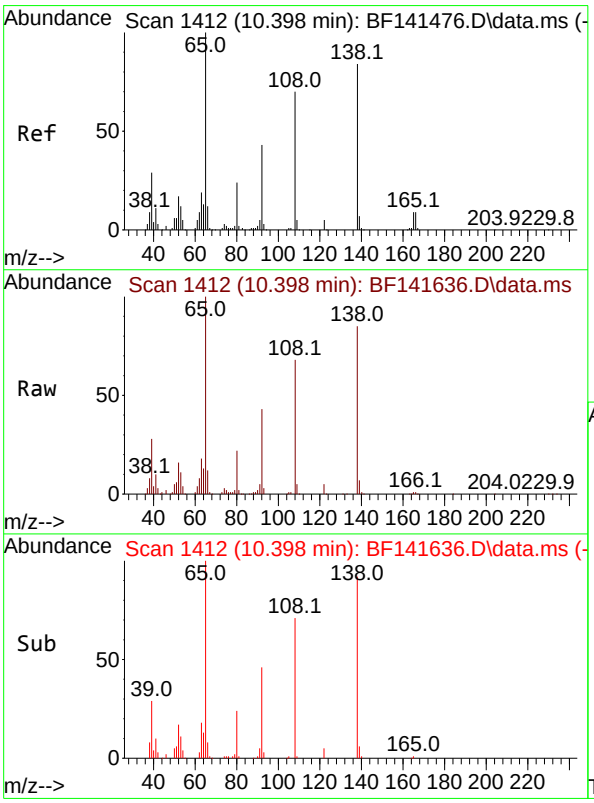
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.6	40.0
141	64.5	51.9	77.9

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

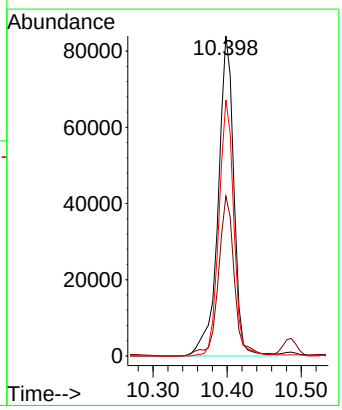


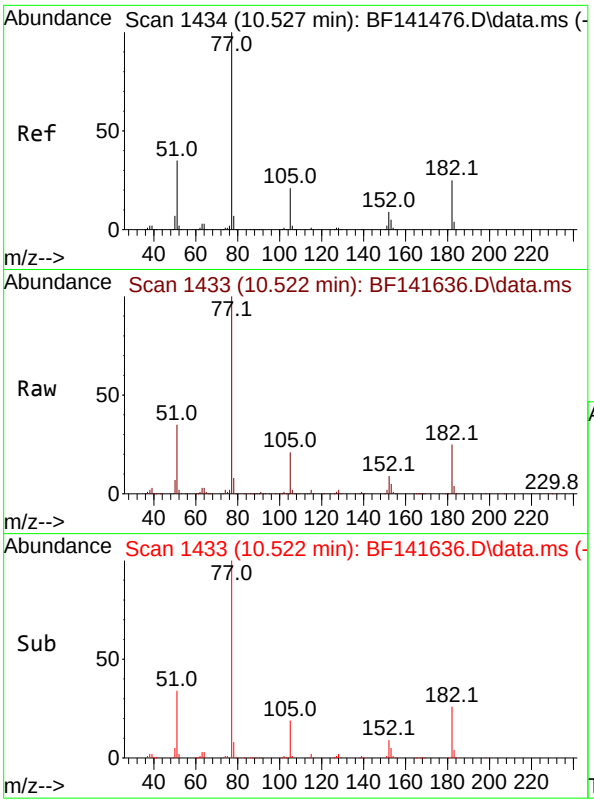


#62
4-Nitroaniline
Concen: 40.505 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:138 Resp: 123974

Ion	Ratio	Lower	Upper
138	100		
92	49.9	31.3	71.3
108	80.0	63.7	103.7





#63
Azobenzene
Concen: 42.854 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

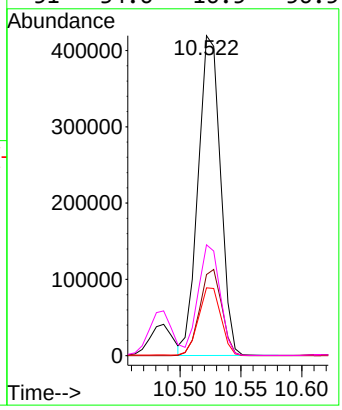
Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

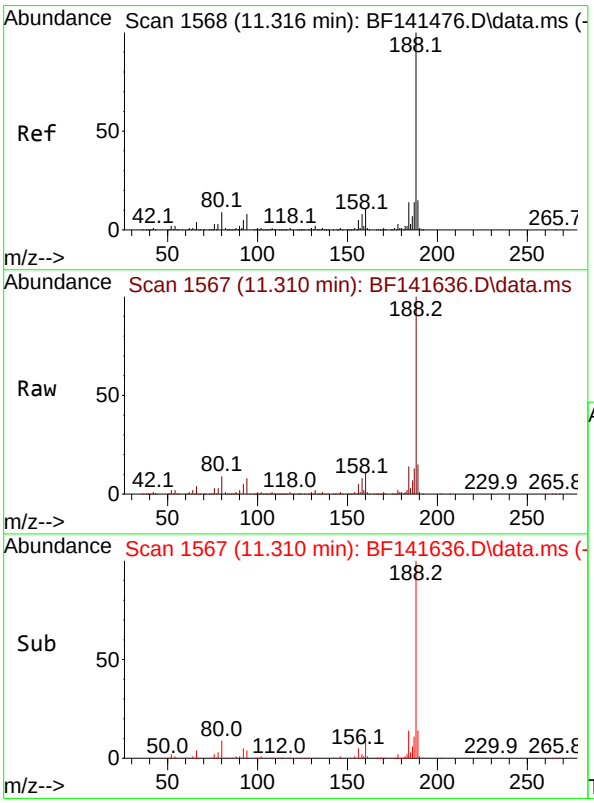
Tgt Ion: 77 Resp: 536984

Ion	Ratio	Lower	Upper
77	100		
182	25.4	4.7	44.7
105	21.2	0.4	40.4
51	34.6	16.5	56.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

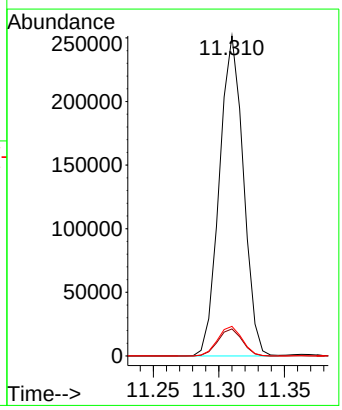


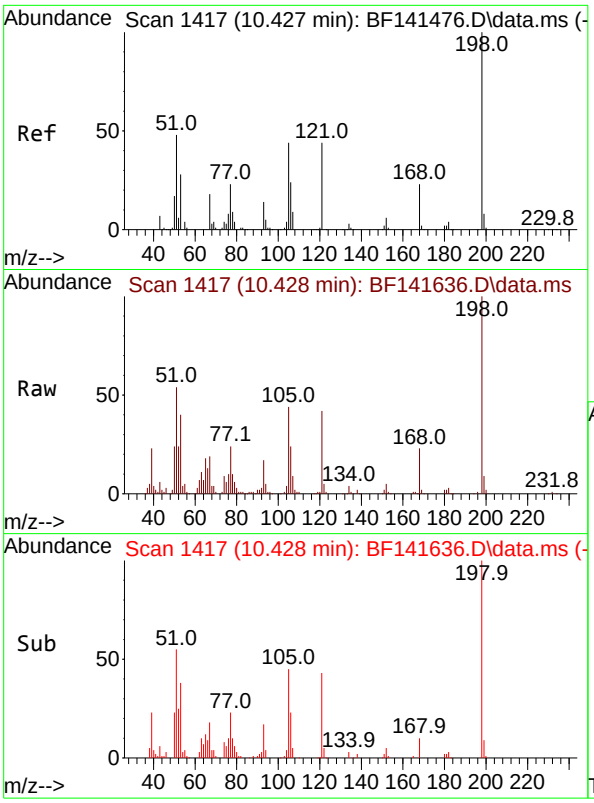


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:188 Resp: 320276

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.3	7.3	10.9

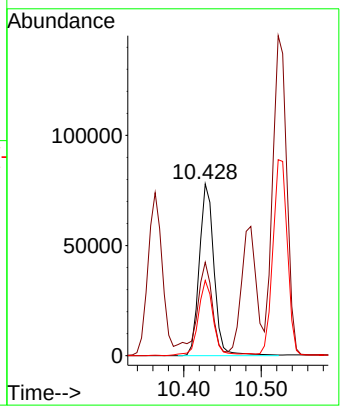




#65
4,6-Dinitro-2-methylphenol
Concen: 46.096 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:198 Resp: 10255

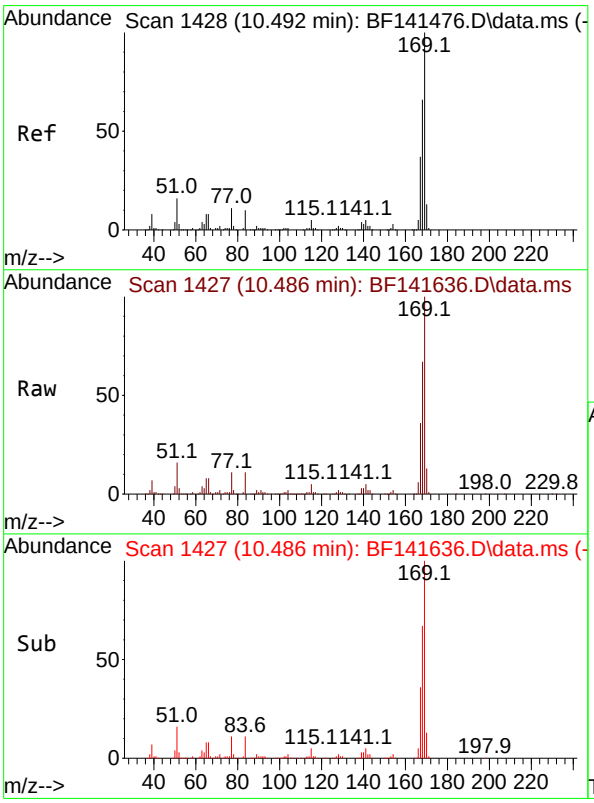
Ion	Ratio	Lower	Upper
198	100		
51	54.4	37.4	77.4
105	43.8	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

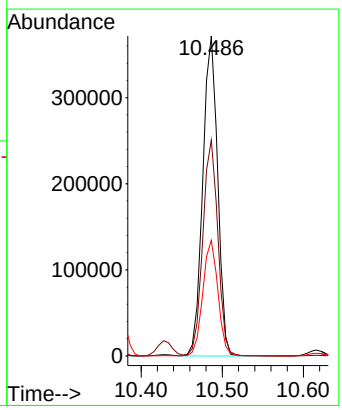
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

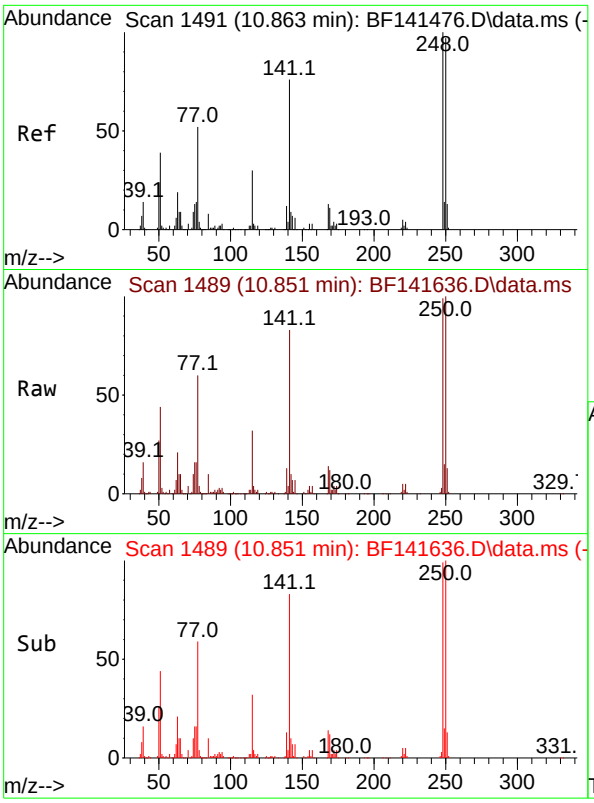


#66
n-Nitrosodiphenylamine
Concen: 46.072 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:169 Resp: 472341

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.3	79.9
167	36.1	29.4	44.2

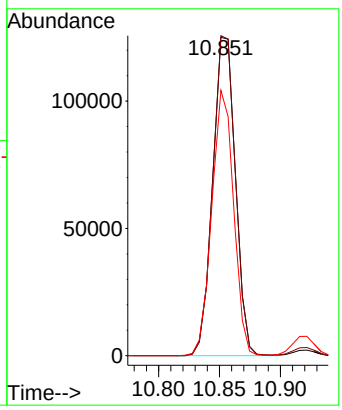




#67
4-Bromophenyl-phenylether
Concen: 45.402 ng
RT: 10.851 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:248 Resp: 16251

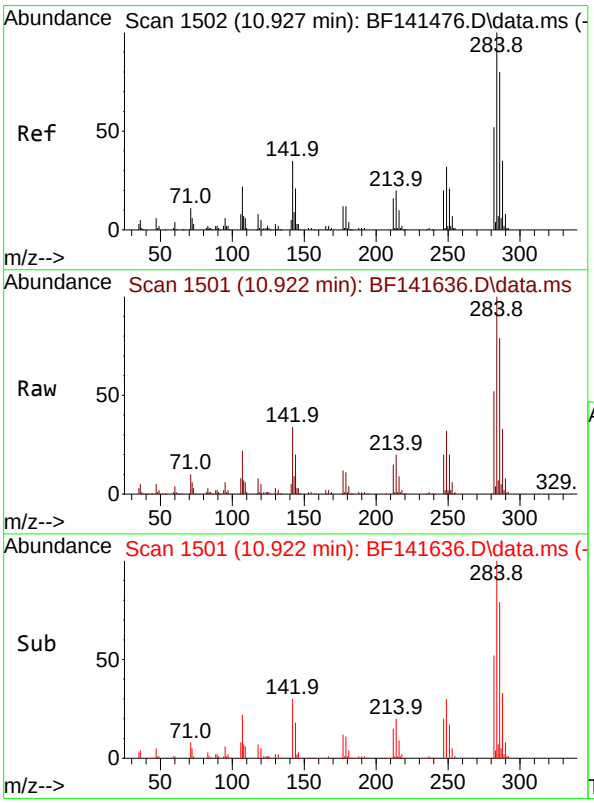
Ion	Ratio	Lower	Upper
248	100		
250	100.5	77.8	116.6
141	83.3	60.6	90.8



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

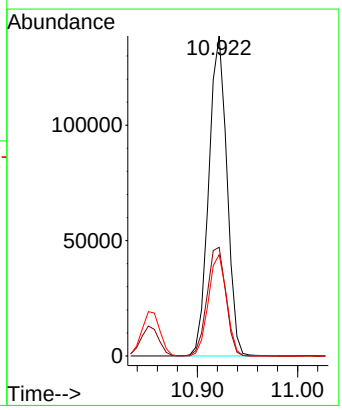
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

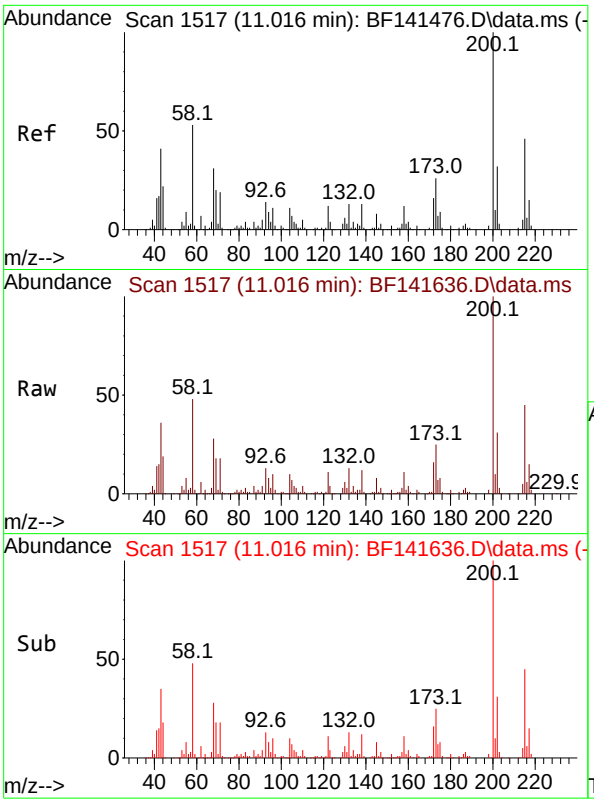


#68
Hexachlorobenzene
Concen: 47.365 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:284 Resp: 174584

Ion	Ratio	Lower	Upper
284	100		
142	33.9	28.0	42.0
249	31.7	25.8	38.8

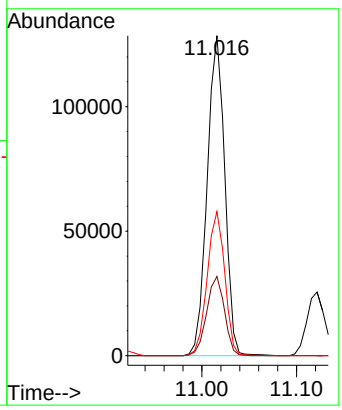




#69
Atrazine
Concen: 53.702 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:200 Resp: 16517

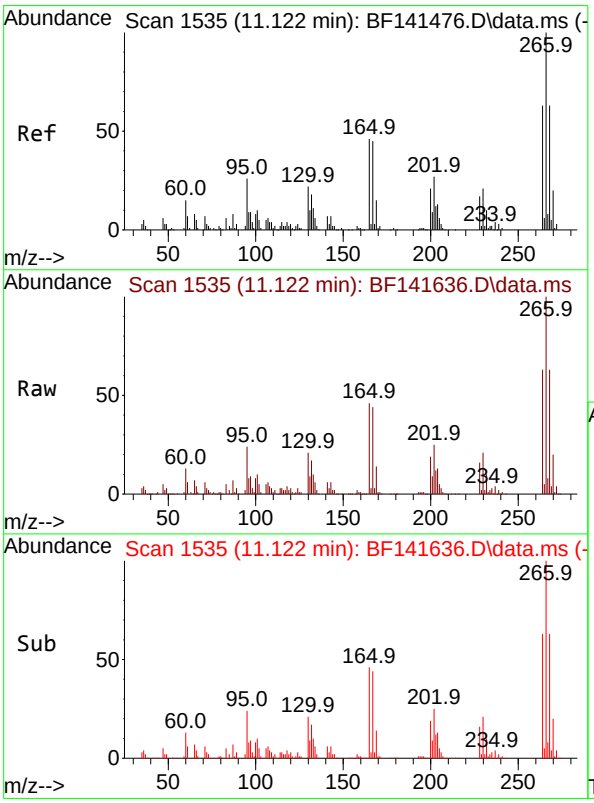
Ion	Ratio	Lower	Upper
200	100		
173	24.8	5.9	45.9
215	45.1	25.9	65.9



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

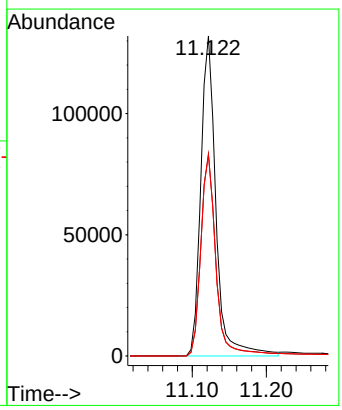
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

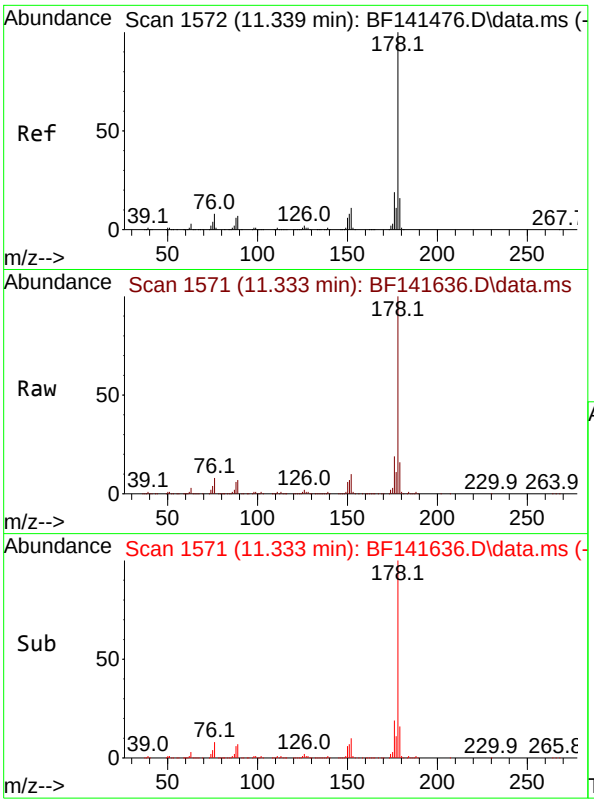


#70
Pentachlorophenol
Concen: 79.874 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:266 Resp: 188251

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.1	75.1
264	62.8	50.1	75.1

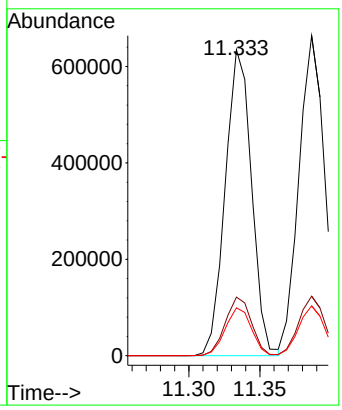




#71
Phenanthrene
Concen: 46.397 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:178 Resp: 81797

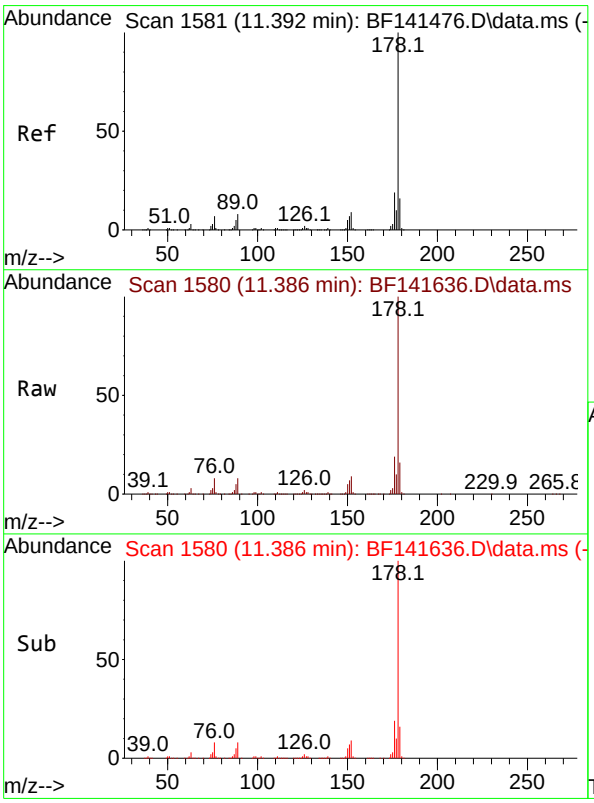
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.7	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

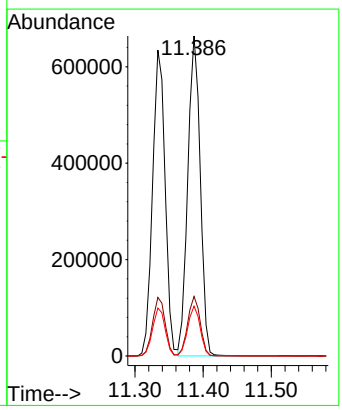
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

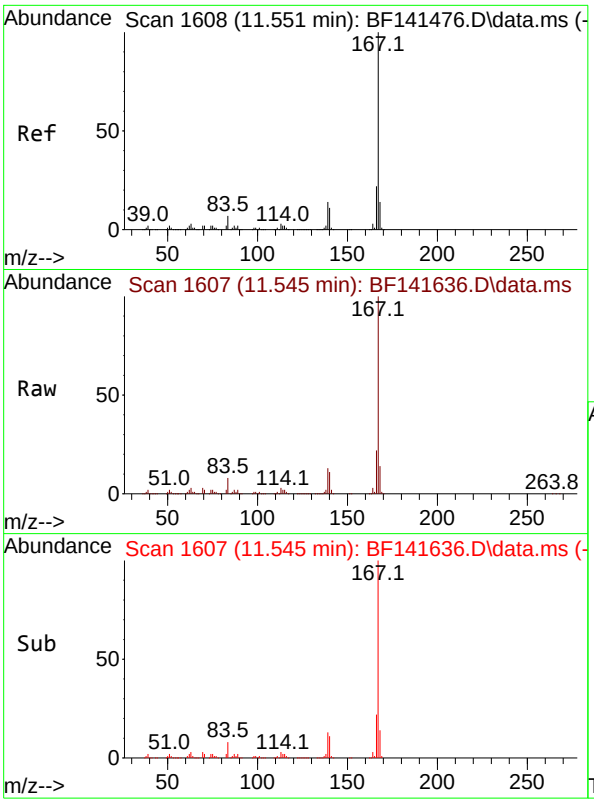


#72
Anthracene
Concen: 47.172 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:178 Resp: 835984

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.5	12.4	18.6





#73
Carbazole
Concen: 45.623 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

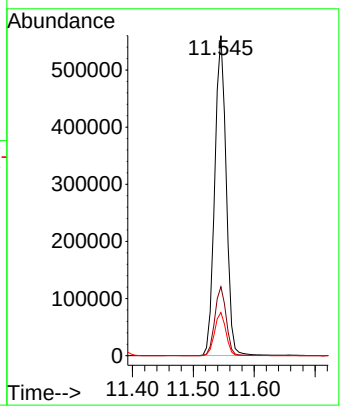
Tgt Ion:167 Resp: 72752

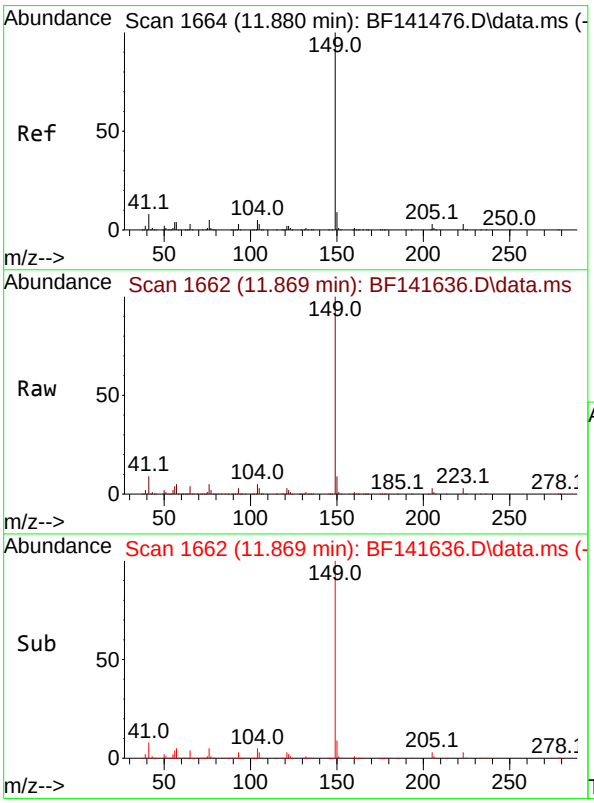
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.5	10.9	16.3

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

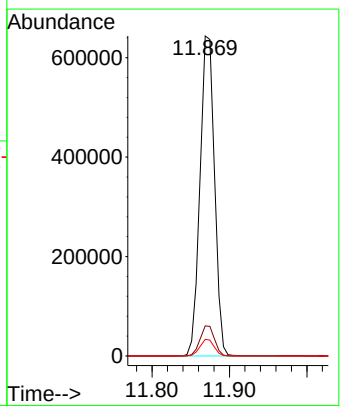


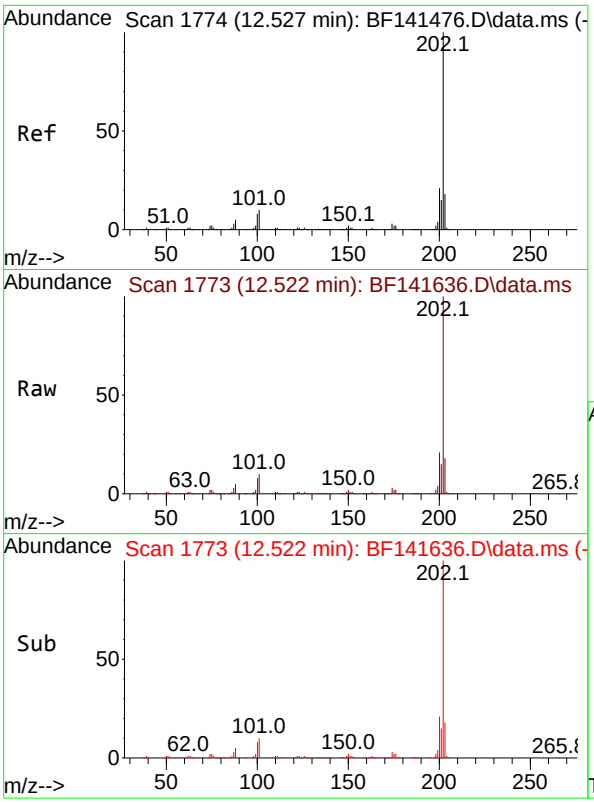


#74
Di-n-butylphthalate
Concen: 45.613 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 839845

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.2	4.2	6.2





#75
Fluoranthene
Concen: 43.888 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

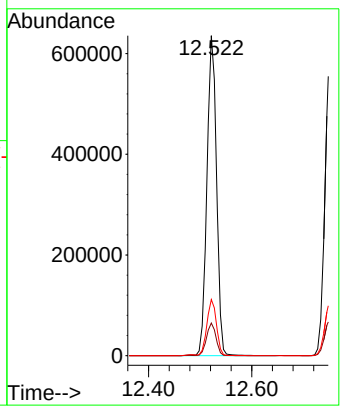
Tgt Ion:202 Resp: 82031

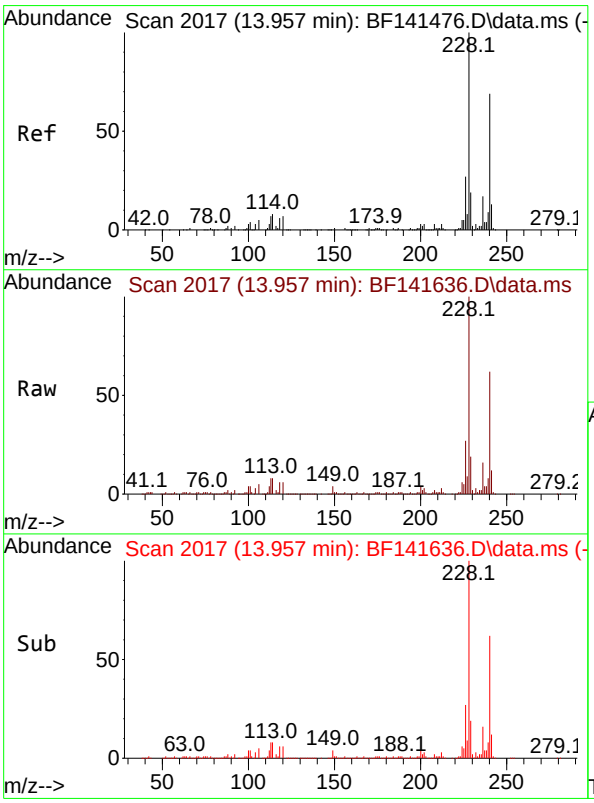
Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.5	0.0	37.6

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

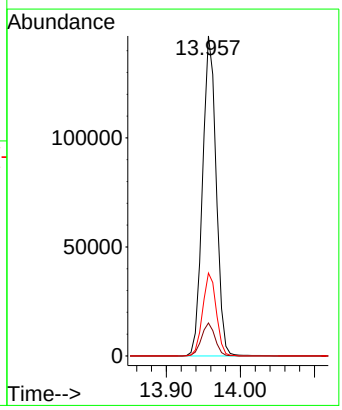


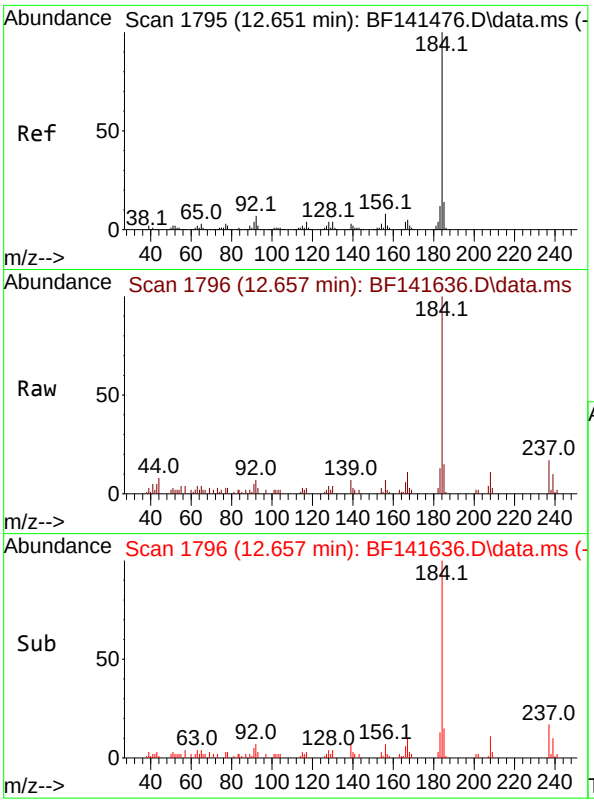


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:240 Resp: 187767

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.0	12.0
236	25.9	19.8	29.8





#77
Benzidine
Concen: 7.946 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

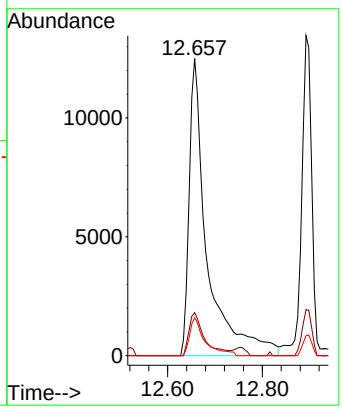
Tgt Ion:184 Resp: 3290

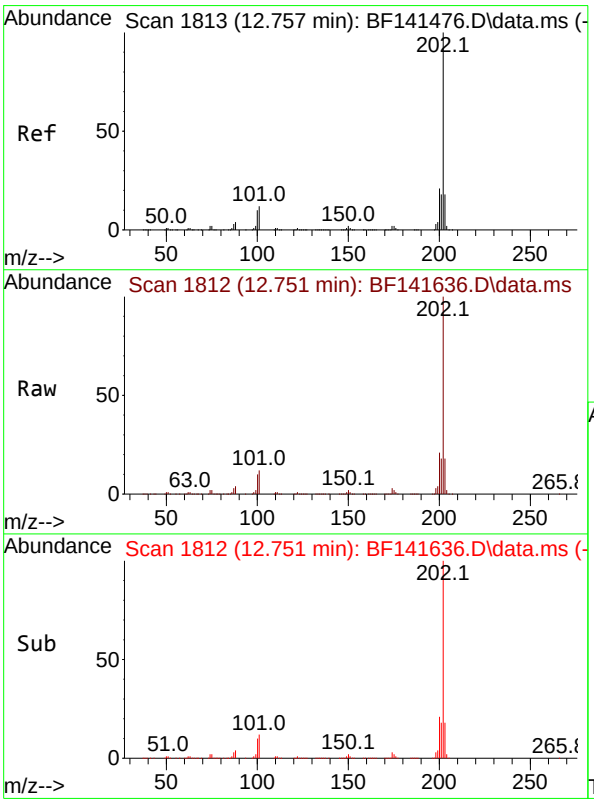
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.3	16.9
183	12.8	9.3	13.9

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

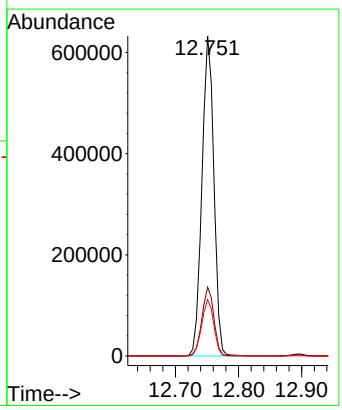


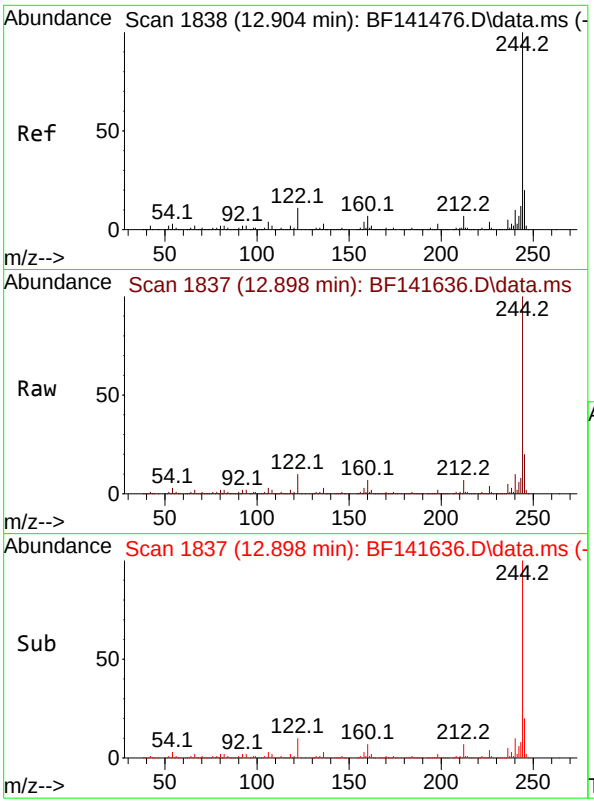


#78
Pyrene
Concen: 52.005 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:202 Resp: 831249

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.4
203	17.6	14.3	21.5





#79
Terphenyl-d14
Concen: 116.623 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

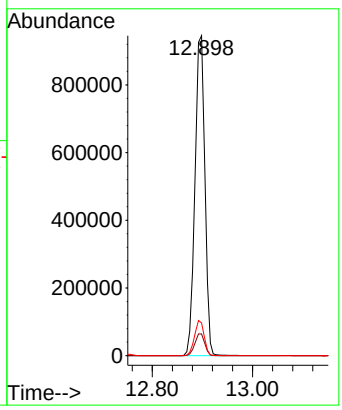
Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

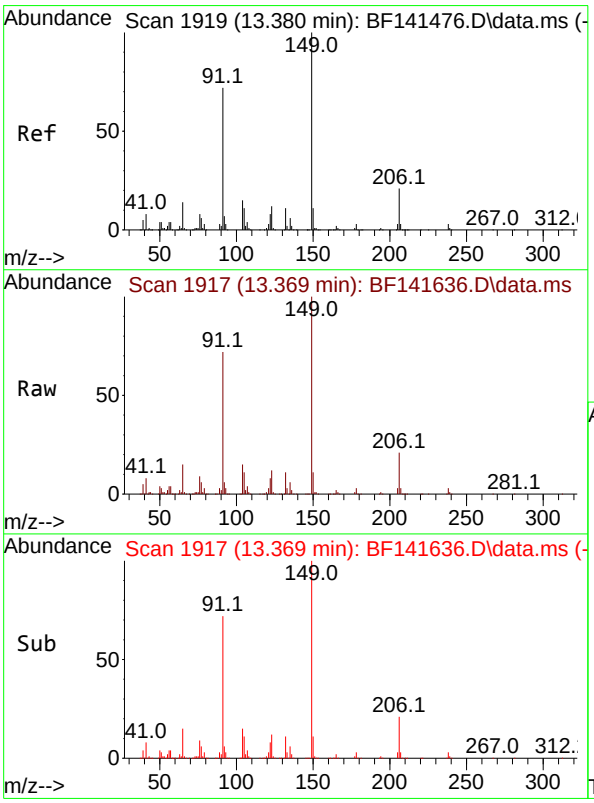
Tgt Ion:244 Resp: 129713

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.2	8.4	12.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

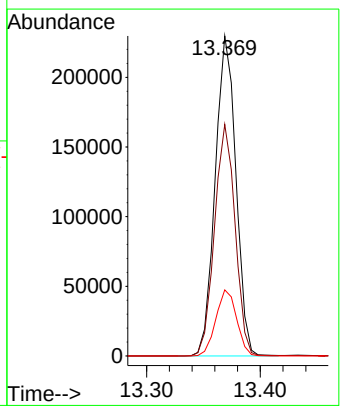


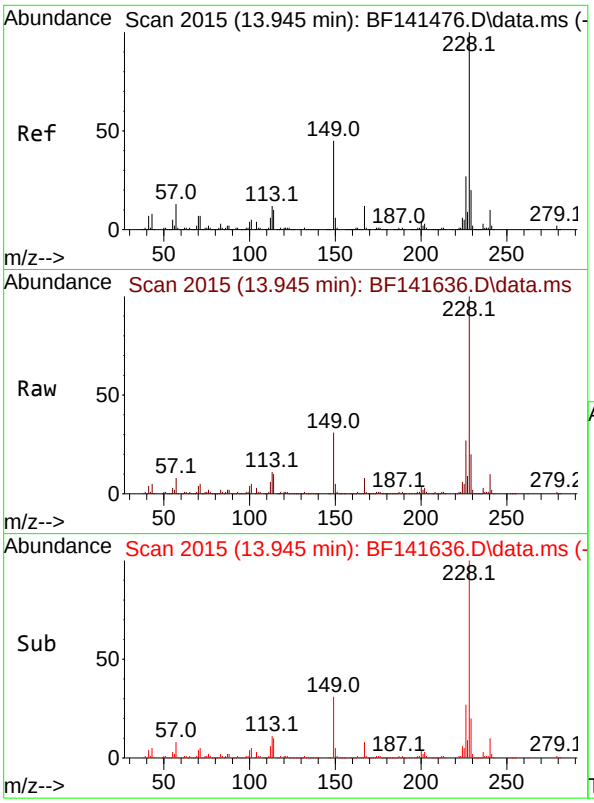


#80
Butylbenzylphthalate
Concen: 52.645 ng
RT: 13.369 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 291462

Ion	Ratio	Lower	Upper
149	100		
91	72.4	57.8	86.8
206	20.7	16.7	25.1

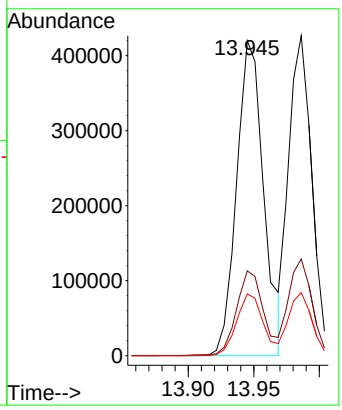




#81
Benzo(a)anthracene
Concen: 48.352 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:228 Resp: 60350

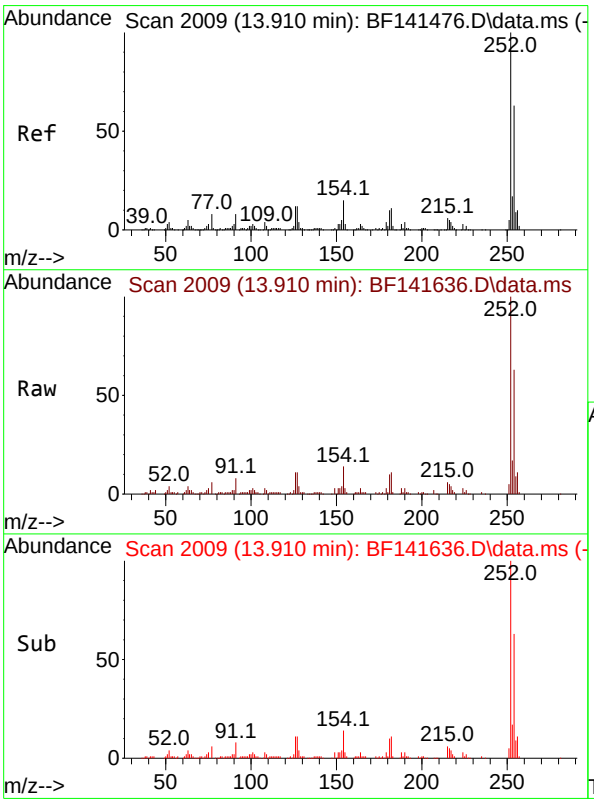
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.6	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

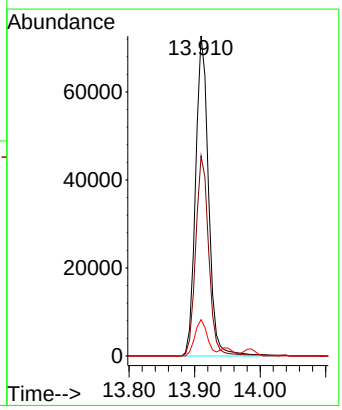
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

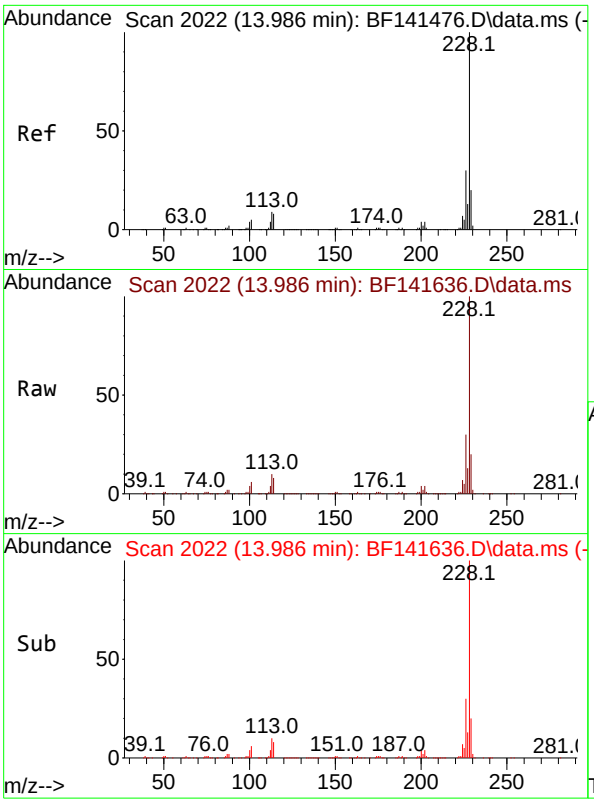


#82
3,3'-Dichlorobenzidine
Concen: 28.075 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 100379

Ion	Ratio	Lower	Upper
252	100		
254	62.5	50.6	76.0
126	11.4	9.3	13.9

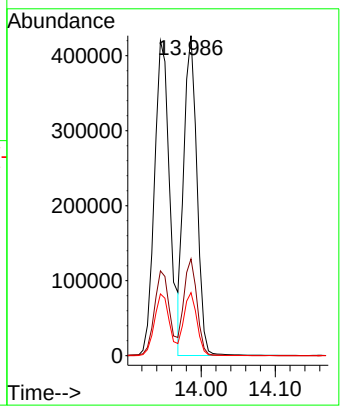




#83
Chrysene
Concen: 45.600 ng
RT: 13.986 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:228 Resp: 52553

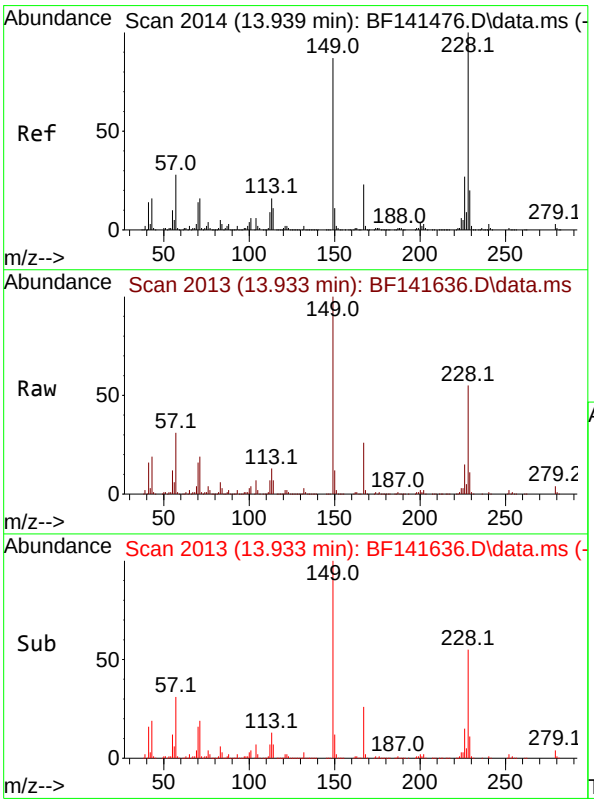
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	19.7	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

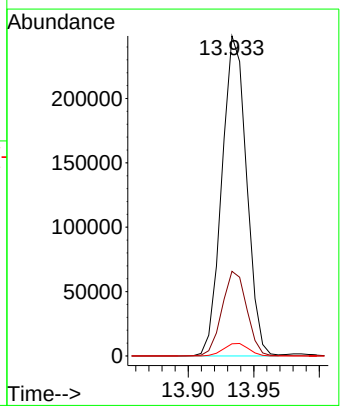
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

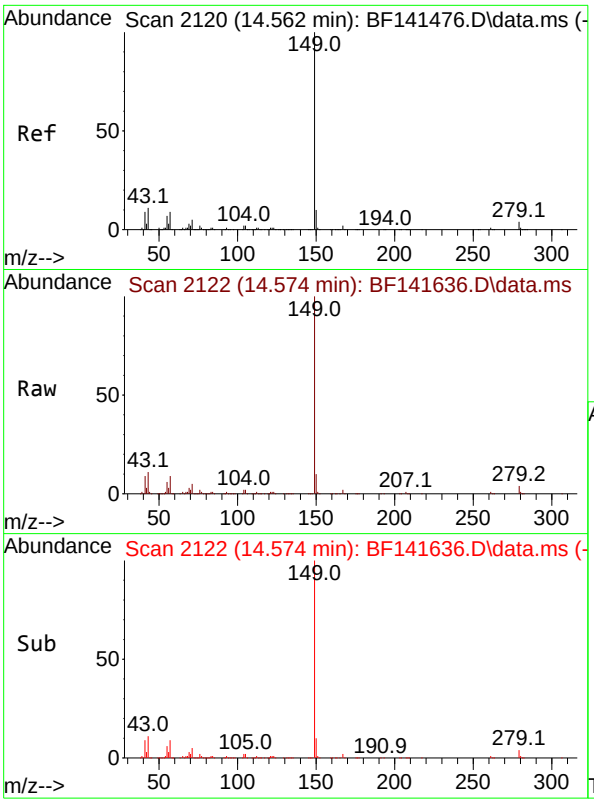


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.076 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 325174

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	3.8	3.1	4.7





#85
Di-n-octyl phthalate
Concen: 50.594 ng
RT: 14.574 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

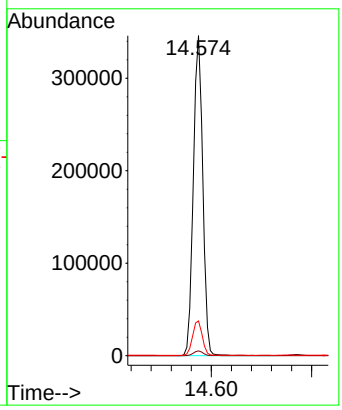
Tgt Ion:149 Resp: 45068

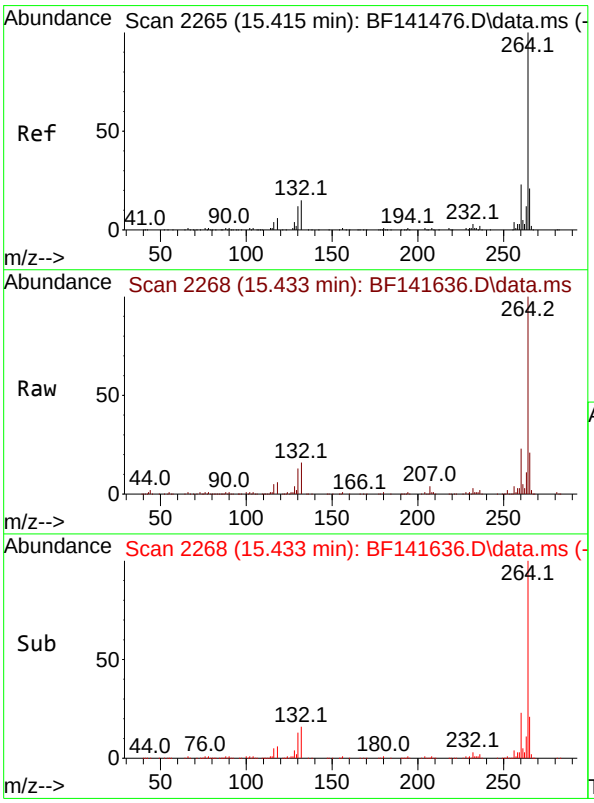
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.2	9.5	14.3

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

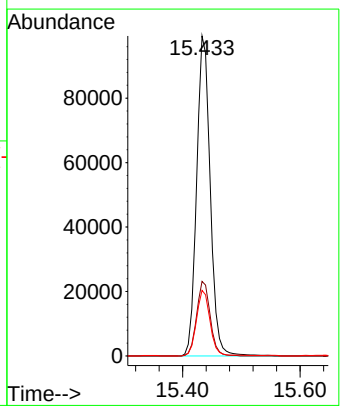


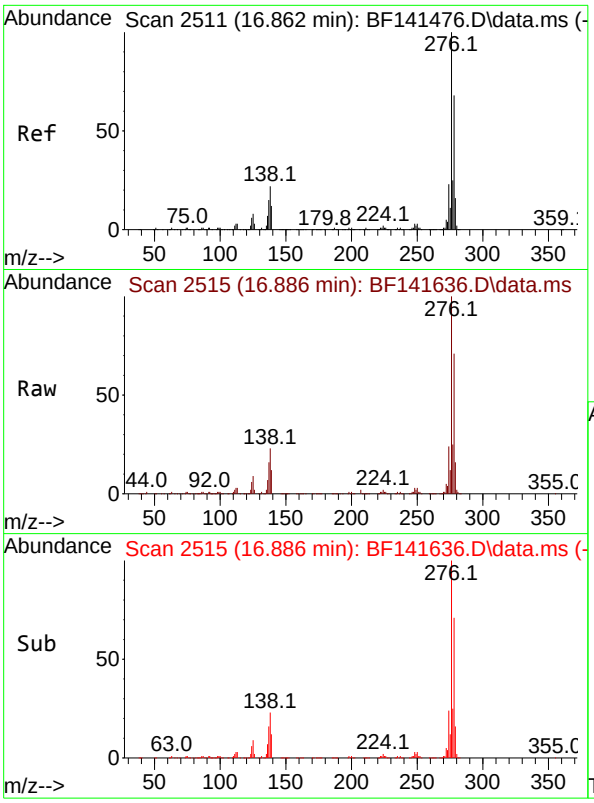


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. 0.018 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:264 Resp: 159211

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	20.5	17.0	25.4

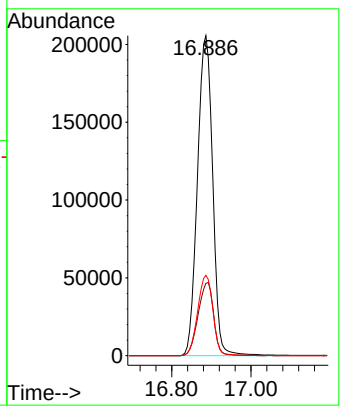




#87
Indeno(1,2,3-cd)pyrene
Concen: 55.817 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:276 Resp: 54910

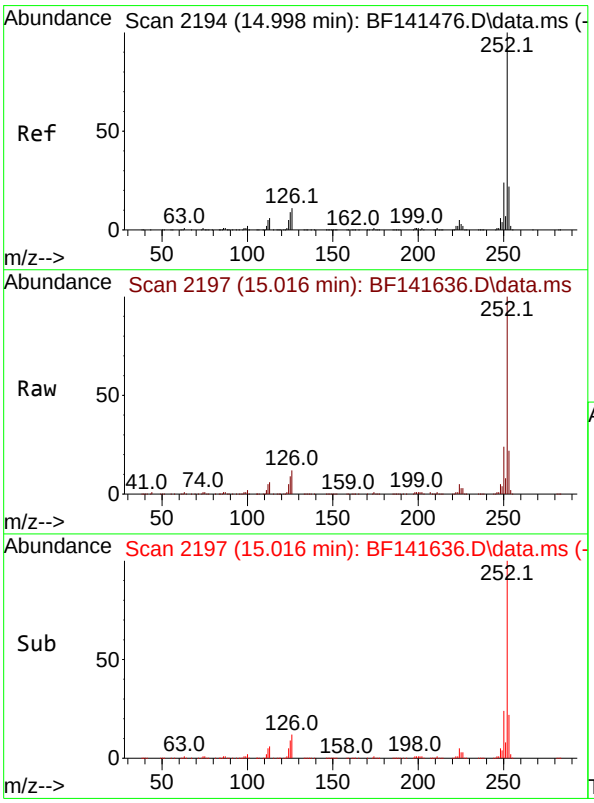
Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.0	27.0
277	25.2	20.4	30.6



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

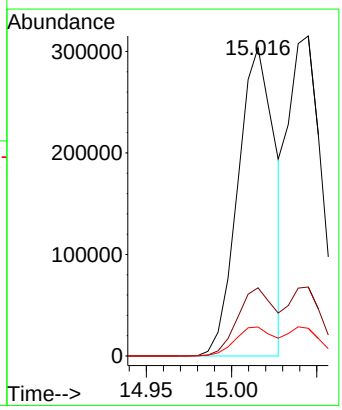
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

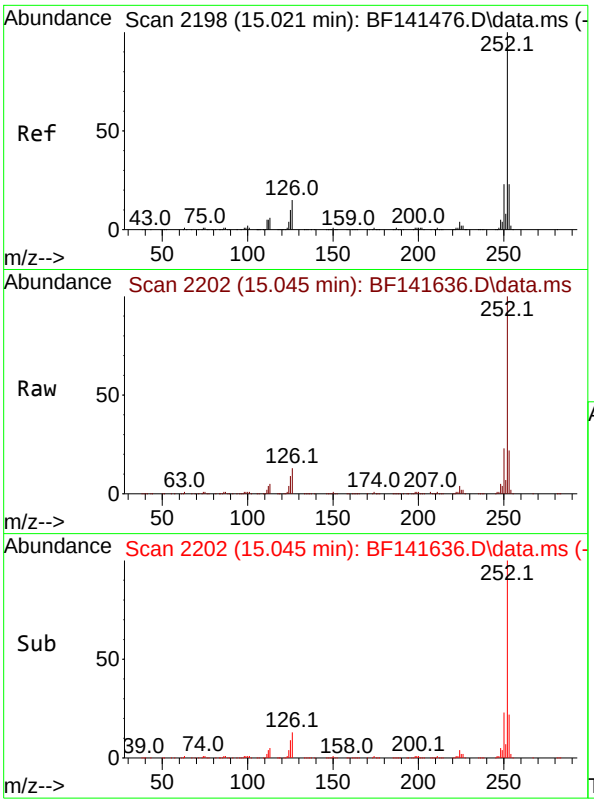


#88
Benzo(b)fluoranthene
Concen: 42.686 ng
RT: 15.016 min Scan# 2197
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 456328

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.4	7.0	10.6

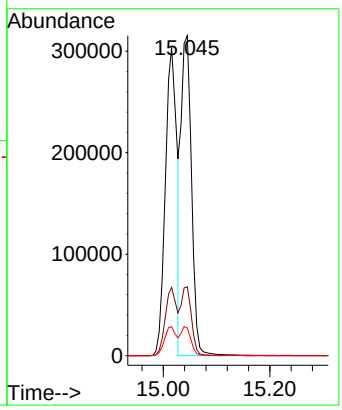




#89
Benzo(k)fluoranthene
Concen: 47.270 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 43150

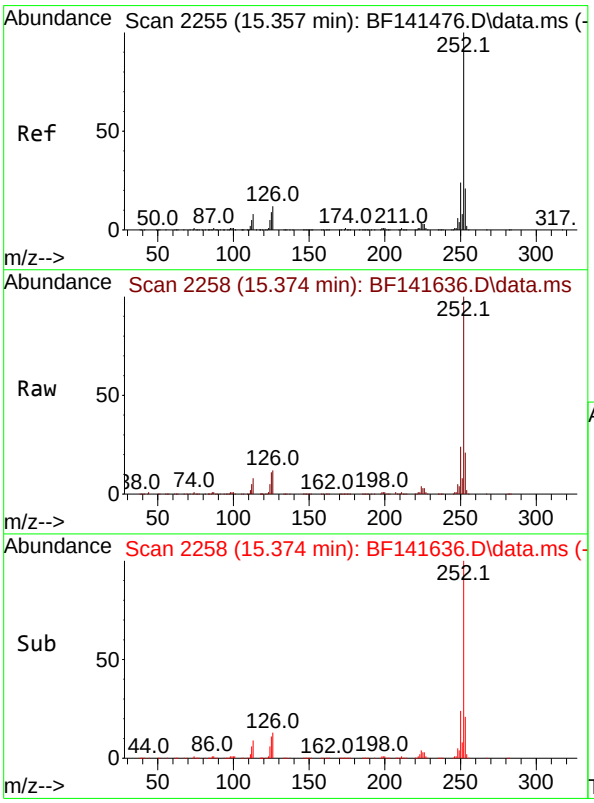
Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.0	27.0
125	8.6	7.4	11.0



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

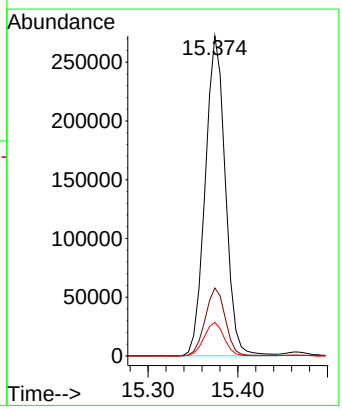
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025

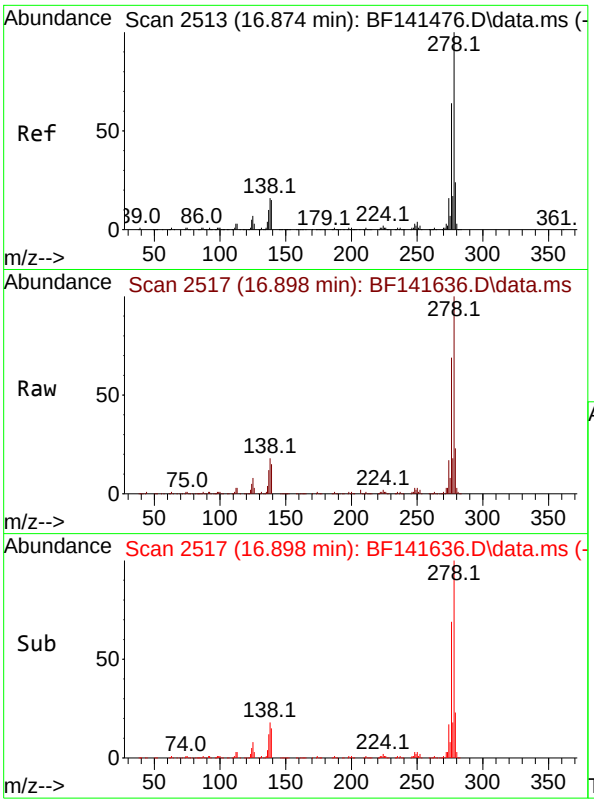


#90
Benzo(a)pyrene
Concen: 48.964 ng
RT: 15.374 min Scan# 2258
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 423546

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.1	25.7
125	10.5	7.4	11.2

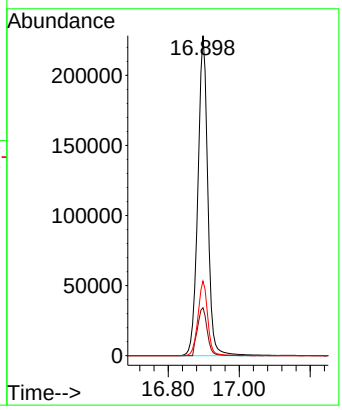




#91
Dibenzo(a,h)anthracene
Concen: 55.839 ng
RT: 16.898 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:278 Resp: 44510

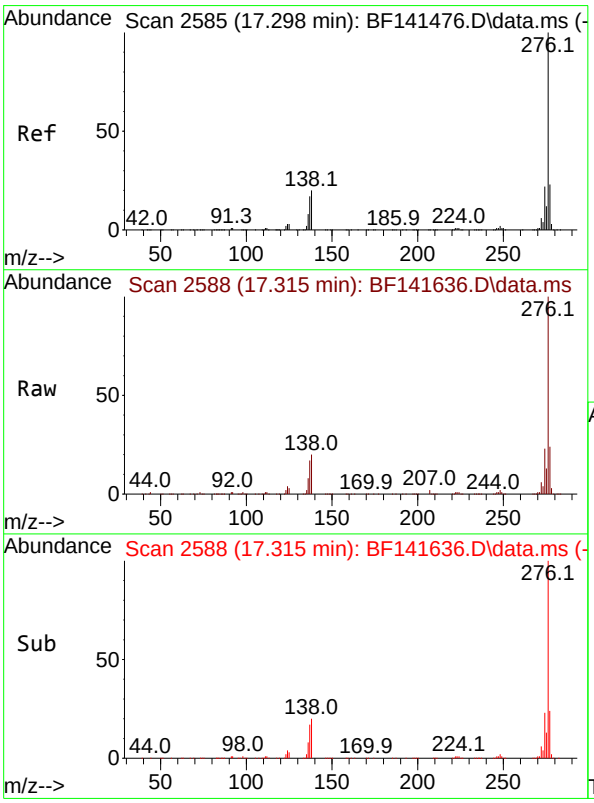
Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.8	17.6
279	23.3	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Manual Integrations
APPROVED

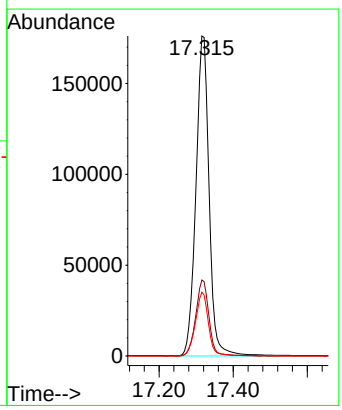
Reviewed By :Yogesh Patel 02/15/2025
Supervised By :Jagrut Upadhyay 02/19/2025



#92
Benzo(g,h,i)perylene
Concen: 52.112 ng
RT: 17.315 min Scan# 2588
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:276 Resp: 434697

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	19.9	15.9	23.9



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

Manual Integration Report

Sequence:	bf020625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141474.D	Acenaphthene	Jagrut	2/7/2025 3:49:22 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software
SSTDICC020	BF141475.D	Acenaphthene	Jagrut	2/7/2025 3:49:24 PM	mohammad	2/7/2025 10:09:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf021425	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB166711BS	BF141630.D	Caprolactam	yogesh	2/15/2025 4:27:07 AM			Peak Integrated by Software
Q1356-04MS	BF141635.D	Caprolactam	yogesh	2/15/2025 4:27:11 AM			Peak Integrated by Software
Q1356-04MSD	BF141636.D	Caprolactam	yogesh	2/15/2025 4:27:14 AM			Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM				
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM				
SubDirectory	BF020625	HP Acquire Method	BNA_F			HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141471.D	06 Feb 2025 10:41	RC/JU	Ok
2	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07	RC/JU	Ok
3	SSTDICC005	BF141473.D	06 Feb 2025 11:34	RC/JU	Ok
4	SSTDICC010	BF141474.D	06 Feb 2025 12:00	RC/JU	Ok,M
5	SSTDICC020	BF141475.D	06 Feb 2025 12:26	RC/JU	Ok,M
6	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	RC/JU	Ok
7	SSTDICC050	BF141477.D	06 Feb 2025 13:21	RC/JU	Ok
8	SSTDICC060	BF141478.D	06 Feb 2025 13:47	RC/JU	Ok
9	SSTDICC080	BF141479.D	06 Feb 2025 14:14	RC/JU	Ok
10	SSTDICV040	BF141480.D	06 Feb 2025 15:03	RC/JU	Ok
11	PB166563BL	BF141481.D	06 Feb 2025 15:43	RC/JU	Ok
12	PB166468BS	BF141482.D	06 Feb 2025 16:09	RC/JU	Ok,M
13	PB166468BSD	BF141483.D	06 Feb 2025 16:36	RC/JU	Ok,M
14	PB166468BL	BF141484.D	06 Feb 2025 17:02	RC/JU	Ok
15	Q1214-01RE	BF141485.D	06 Feb 2025 17:34	RC/JU	Confirms
16	Q1309-01	BF141486.D	06 Feb 2025 18:00	RC/JU	Ok
17	Q1309-05	BF141487.D	06 Feb 2025 18:27	RC/JU	Ok
18	Q1309-09	BF141488.D	06 Feb 2025 18:53	RC/JU	Ok
19	Q1309-13	BF141489.D	06 Feb 2025 19:19	RC/JU	Ok
20	Q1309-13MS	BF141490.D	06 Feb 2025 19:45	RC/JU	Ok,M
21	Q1309-13MSD	BF141491.D	06 Feb 2025 20:11	RC/JU	Ok,M

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 # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1309-17	BF141492.D	06 Feb 2025 20:37	RC/JU	Ok
23	Q1309-21	BF141493.D	06 Feb 2025 21:03	RC/JU	Ok
24	Q1216-04	BF141494.D	06 Feb 2025 21:30	RC/JU	Ok

M : Manual Integration

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 # BF021425

Review By	yogesh	Review On	2/15/2025 4:28:05 AM				
Supervise By		Supervise On					
SubDirectory	BF021425	HP Acquire Method	BNA_F			HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12651,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141627.D	14 Feb 2025 09:19	RC/JU	Ok
2	SSTDCCC040	BF141628.D	14 Feb 2025 09:45	RC/JU	Ok
3	PB166711BL	BF141629.D	14 Feb 2025 10:29	RC/JU	Ok
4	PB166711BS	BF141630.D	14 Feb 2025 10:55	RC/JU	Ok,NS
5	PB166700TB	BF141631.D	14 Feb 2025 11:21	RC/JU	Ok
6	PB166702TB	BF141632.D	14 Feb 2025 11:48	RC/JU	Ok
7	Q1352-02	BF141633.D	14 Feb 2025 12:18	RC/JU	Ok
8	Q1356-04	BF141634.D	14 Feb 2025 12:44	RC/JU	Ok
9	Q1356-04MS	BF141635.D	14 Feb 2025 13:11	RC/JU	Ok,NS
10	Q1356-04MSD	BF141636.D	14 Feb 2025 13:37	RC/JU	Ok,NS
11	SSTDCCC040	BF141637.D	14 Feb 2025 14:12	RC/JU	Ok
12	DFTPP	BF141638.D	14 Feb 2025 14:38	RC/JU	Ok
13	SSTDCCC040	BF141639.D	14 Feb 2025 15:04	RC/JU	Ok
14	PB166719BL	BF141640.D	14 Feb 2025 15:30	RC/JU	Ok
15	PB166719BS	BF141641.D	14 Feb 2025 15:56	RC/JU	Ok,NS
16	Q1356-05RE	BF141642.D	14 Feb 2025 16:30	RC/JU	Confirms
17	Q1356-08RE	BF141643.D	14 Feb 2025 16:56	RC/JU	Confirms
18	Q1365-01	BF141644.D	14 Feb 2025 17:22	RC/JU	Ok
19	Q1365-08	BF141645.D	14 Feb 2025 17:49	RC/JU	Ok
20	Q1365-04	BF141646.D	14 Feb 2025 18:15	RC/JU	Ok,NS
21	Q1365-02	BF141647.D	14 Feb 2025 18:41	RC/JU	Ok,NS

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 # BF021425

Review By	yogesh	Review On	2/15/2025 4:28:05 AM		
Supervise By		Supervise On			
SubDirectory	BF021425	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12651,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1331-01DL	BF141648.D	14 Feb 2025 19:08	RC/JU	Ok
23	Q1365-06	BF141649.D	14 Feb 2025 19:34	RC/JU	Ok,NS
24	Q1365-06MS	BF141650.D	14 Feb 2025 20:00	RC/JU	Ok,NS
25	Q1365-06MSD	BF141651.D	14 Feb 2025 20:26	RC/JU	Ok,NS
26	Q1365-07	BF141652.D	14 Feb 2025 20:52	RC/JU	Ok,NS
27	Q1366-01	BF141653.D	14 Feb 2025 21:19	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141471.D	06 Feb 2025 10:41		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141472.D	06 Feb 2025 11:07		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141473.D	06 Feb 2025 11:34	Compound #32,41,54 and #65 removed from 5PPM	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141474.D	06 Feb 2025 12:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141475.D	06 Feb 2025 12:26		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141476.D	06 Feb 2025 12:55	The Calibration is Good For 8270 DOD and good for 625.1 Method	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141477.D	06 Feb 2025 13:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141478.D	06 Feb 2025 13:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141479.D	06 Feb 2025 14:14	Compound #9 removed from 80ppm	RC/JU	Ok
10	SSTDICV040	ICVBF020625	BF141480.D	06 Feb 2025 15:03		RC/JU	Ok
11	PB166563BL	PB166563BL	BF141481.D	06 Feb 2025 15:43		RC/JU	Ok
12	PB166468BS	PB166468BS	BF141482.D	06 Feb 2025 16:09		RC/JU	Ok,M
13	PB166468BSD	PB166468BSD	BF141483.D	06 Feb 2025 16:36		RC/JU	Ok,M
14	PB166468BL	PB166468BL	BF141484.D	06 Feb 2025 17:02		RC/JU	Ok
15	Q1214-01RE	PARAMUS-CONDENS/	BF141485.D	06 Feb 2025 17:34	Surrogate Fail	RC/JU	Confirms
16	Q1309-01	WC-2	BF141486.D	06 Feb 2025 18:00		RC/JU	Ok
17	Q1309-05	WC-3	BF141487.D	06 Feb 2025 18:27		RC/JU	Ok

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 # BF020625

Review By	Jagrut	Review On	2/7/2025 3:49:55 PM		
Supervise By	mohammad	Supervise On	2/7/2025 10:09:12 PM		
SubDirectory	BF020625	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q1309-09	WC-4	BF141488.D	06 Feb 2025 18:53		RC/JU	Ok
19	Q1309-13	WC-5	BF141489.D	06 Feb 2025 19:19		RC/JU	Ok
20	Q1309-13MS	WC-5MS	BF141490.D	06 Feb 2025 19:45		RC/JU	Ok,M
21	Q1309-13MSD	WC-5MSD	BF141491.D	06 Feb 2025 20:11		RC/JU	Ok,M
22	Q1309-17	WC-6	BF141492.D	06 Feb 2025 20:37		RC/JU	Ok
23	Q1309-21	WC-8	BF141493.D	06 Feb 2025 21:03		RC/JU	Ok
24	Q1216-04	JPP-18.1-012825	BF141494.D	06 Feb 2025 21:30		RC/JU	Ok

M : Manual Integration

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 # BF021425

Review By	yogesh	Review On	2/15/2025 4:28:05 AM		
Supervise By		Supervise On			
SubDirectory	BF021425	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12651,10ul/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	BF141627.D	14 Feb 2025 09:19		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141628.D	14 Feb 2025 09:45		RC/JU	Ok
3	PB166711BL	PB166711BL	BF141629.D	14 Feb 2025 10:29		RC/JU	Ok
4	PB166711BS	PB166711BS	BF141630.D	14 Feb 2025 10:55		RC/JU	Ok,NS
5	PB166700TB	PB166700TB	BF141631.D	14 Feb 2025 11:21		RC/JU	Ok
6	PB166702TB	PB166702TB	BF141632.D	14 Feb 2025 11:48		RC/JU	Ok
7	Q1352-02	TAP-IDW-SOIL-021025	BF141633.D	14 Feb 2025 12:18		RC/JU	Ok
8	Q1356-04	CARBON-WATER	BF141634.D	14 Feb 2025 12:44		RC/JU	Ok
9	Q1356-04MS	CARBON-WATERMS	BF141635.D	14 Feb 2025 13:11		RC/JU	Ok,NS
10	Q1356-04MSD	CARBON-WATERMSD	BF141636.D	14 Feb 2025 13:37		RC/JU	Ok,NS
11	SSTDCCC040	SSTDCCC040EC	BF141637.D	14 Feb 2025 14:12		RC/JU	Ok
12	DFTPP	DFTPP	BF141638.D	14 Feb 2025 14:38		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040	BF141639.D	14 Feb 2025 15:04		RC/JU	Ok
14	PB166719BL	PB166719BL	BF141640.D	14 Feb 2025 15:30		RC/JU	Ok
15	PB166719BS	PB166719BS	BF141641.D	14 Feb 2025 15:56		RC/JU	Ok,NS
16	Q1356-05RE	CARBON-FBRE	BF141642.D	14 Feb 2025 16:30	Surrogate Fail	RC/JU	Confirms
17	Q1356-08RE	WATER-FBRE	BF141643.D	14 Feb 2025 16:56	Surrogate Fail	RC/JU	Confirms
18	Q1365-01	366	BF141644.D	14 Feb 2025 17:22		RC/JU	Ok

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 # BF021425

Review By	yogesh	Review On	2/15/2025 4:28:05 AM		
Supervise By		Supervise On			
SubDirectory	BF021425	HP Acquire Method	BNA_F	HP Processing Method	bf020625

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12651,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1365-08	357	BF141645.D	14 Feb 2025 17:49		RC/JU	Ok
20	Q1365-04	VNJ-213	BF141646.D	14 Feb 2025 18:15		RC/JU	Ok,NS
21	Q1365-02	VNJ-214	BF141647.D	14 Feb 2025 18:41		RC/JU	Ok,NS
22	Q1331-01DL	MW1RDL	BF141648.D	14 Feb 2025 19:08		RC/JU	Ok
23	Q1365-06	348	BF141649.D	14 Feb 2025 19:34		RC/JU	Ok,NS
24	Q1365-06MS	348MS	BF141650.D	14 Feb 2025 20:00		RC/JU	Ok,NS
25	Q1365-06MSD	348MSD	BF141651.D	14 Feb 2025 20:26		RC/JU	Ok,NS
26	Q1365-07	RBR22266	BF141652.D	14 Feb 2025 20:52		RC/JU	Ok,NS
27	Q1366-01	HD-01-2132025	BF141653.D	14 Feb 2025 21:19		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166700

SOP ID : M1311-TCLP-15

SDG No : N/A

Start Prep Date : 02/12/2025 **Time :** 14:00

Weigh By : JP

End Prep Date : 02/13/2025 **Time :** 07:15

Balance ID : WC SC-7

Combination Ratio : 20

pH Meter ID : WC PH METER-1

ZHE Cleaning Batch : N/A

Extraction By : JP

Initial Room Temperature: 23 °C

Filter By : JP

Final Room Temperature: 22 °C

Pippete ID : WC

TCLP Technician Signature : JP

Tumbler ID : T-1

Supervisor By : JC

TCLP Filter ID : 115525

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 checked,30 rpm. Partial size reduction in not required. p1356-03 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/13/25 0830	JP / TCLP Room	SGB. / Ext
	Preparation Group	**Analysis Group** Metals

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166700

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166700TB	LEB700	06	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1
Q1288-08	HR-04-020425	01	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1352-02	TAP-IDW-SOIL-021025	02	100.03	2000	N/A	N/A	N/A	8.2	1.5	T-1
Q1353-02	346	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1356-01	CARBON-SOLID	04	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1356-03	SOIL-PILE	05	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166700TB	LEB700	N/A	N/A	N/A	N/A	N/A	N/A
Q1288-08	HR-04-020425	N/A	N/A	N/A	N/A	100	N/A
Q1352-02	TAP-IDW-SOIL-021025	N/A	N/A	N/A	N/A	100	N/A
Q1353-02	346	N/A	N/A	N/A	N/A	100	N/A
Q1356-01	CARBON-SOLID	N/A	N/A	N/A	N/A	100	N/A
Q1356-03	SOIL-PILE	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB166700

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB166700TB	LEB700	N/A	N/A	N/A	N/A	#1	4.94
Q1288-08	HR-04-020425	5.02	96.5	8.6	3.0	#1	4.94
Q1352-02	TAP-IDW-SOIL-021025	5.03	96.5	10.0	4.5	#1	4.94
Q1353-02	346	5.03	96.5	5.8	1.5	#1	4.94
Q1356-01	CARBON-SOLID	5.02	96.5	7.2	2.0	#1	4.94
Q1356-03	SOIL-PILE	5.02	96.5	8.6	3.0	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q1356 **WorkList ID :** 187672 **Department :** TCLP Extraction **Date :** 02-12-2025 11:38:51

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1288-08	HR-04-020425	Solid	TCLP Extraction	Cool 4 deg C	PSEG05	D11	02/04/2025	1311
Q1352-02	TAP-IDW-SOIL-021025	Solid	TCLP Extraction	Cool 4 deg C	WEST04	N51	02/10/2025	1311
Q1353-02	346	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	02/11/2025	1311
Q1356-01	CARBON-SOLID	Solid	TCLP Extraction	Cool 4 deg C	PSEG04	N51	02/11/2025	1311
Q1356-03	SOIL-PILE	Solid	TCLP Extraction	Cool 4 deg C	PSEG04	N51	02/11/2025	1311

Date/Time 02-12-25 12:30
Raw Sample Received by: JB (WDC)
Raw Sample Relinquished by: RM SM

Date/Time 02-12-25 15:00
Raw Sample Received by: RM SM
Raw Sample Relinquished by: JB (WDC)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166711

SOP ID: M3510C,3580A-Extraction PCB-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 02/13/2025

Extraction Start Time : 09:00

Extraction End Date : 02/13/2025

Extraction End Time : 13:55

Concentration By: EH

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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3874
Baked Na2SO4	N/A	EP2585
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/13/25	RP (Ext. Lab)	RC/SVOC
14:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166711

Analytical Method: M3510C,3580A-Extraction PCB-14

Concentration Date: 02/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166700TB	PB166700TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-01
PB166702TB	PB166702TB	TCLP BNA	100	6	RUPESH	ritesh	1			2
PB166711BL	PB166711BL	TCLP BNA	1000	6	RUPESH	ritesh	1			3
PB166711BS	PB166711BS	TCLP BNA	1000	6	RUPESH	ritesh	1			4
Q1352-02	TAP-IDW-SOIL-021025	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1353-02	346	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q1356-01	CARBON-SOLID	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q1356-03	SOIL-PILE	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q1356-04	CARBON-WATER	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
Q1356-04MS	CARBON-WATERMS	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
Q1356-04MSD	CARBON-WATERMSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
Q1356-05	CARBON-FB	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
Q1356-06	WATER-A	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
Q1356-07	WATER-B	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
Q1356-08	WATER-FB	TCLP BNA	100	6	RUPESH	ritesh	1	A		15
Q1356-09	SOIL-FB	TCLP BNA	100	6	RUPESH	ritesh	1	A		16

* **Extracts relinquished on the same date as received.**

2/13/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166700

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166700TB	LEB700	06	N/A	2000	N/A	N/A	N/A	4.94	1.5	T-1
Q1288-08	HR-04-020425	01	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1352-02	TAP-IDW-SOIL-021025	02	100.03	2000	N/A	N/A	N/A	8.2	1.5	T-1
Q1353-02	346	03	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1356-01	CARBON-SOLID	04	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q1356-03	SOIL-PILE	05	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1

02/13/25
08:30

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166702

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166702TB	LEB702	N/A	N/A	N/A	N/A	N/A	N/A	4.94	1.0	N/A
Q1356-04	CARBON-WATER	N/A	N/A	N/A	N/A	N/A	N/A	7.0	1.0	N/A
Q1356-05	CARBON-FB	N/A	N/A	N/A	N/A	N/A	N/A	6.0	1.5	N/A
Q1356-06	WATER-A	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.0	N/A
Q1356-07	WATER-B	N/A	N/A	N/A	N/A	N/A	N/A	7.6	1.5	N/A
Q1356-08	WATER-FB	N/A	N/A	N/A	N/A	N/A	N/A	6.6	1.0	N/A
Q1356-09	SOIL-FB	N/A	N/A	N/A	N/A	N/A	N/A	6.2	1.5	N/A

02/13/25
08:30

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

Prep Standard - Chemical Standard Summary

Order ID : Q1352

Test : TCLP BNA

Prepbatch ID : PB166711,

Sequence ID/Qc Batch ID: BF021325,BF021425,

Standard ID :
EP2559,EP2565,EP2585,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :
10ul/1000ul sample,E3551,E3657,E3815,E3828,E3846,E3871,E3874,M5173,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12651,S12791,S12963,S12964,S12965,S12966,W3112,

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
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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
3923	Baked Sodium Sulfate	EP2585	02/07/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/07/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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
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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6720	01/29/2025	04/30/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/06/2025

FROM 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = 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
3764	8270/625 Stock solution 100 ng	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = 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	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

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	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

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	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

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	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

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	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

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	S10978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

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

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	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

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	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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	01/29/2025 / anahy	03/15/2024 / Rahul	S12143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12145

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	01/29/2025 / anahy	03/15/2024 / Rahul	S12146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

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	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

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	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/26/2025	11/26/2024 / Jagrut	07/23/2024 / RAHUL	S12470

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12471

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12472

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12473

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12474

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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12475

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12476

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12477

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12520

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12524

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	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12964

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]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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.

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-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.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

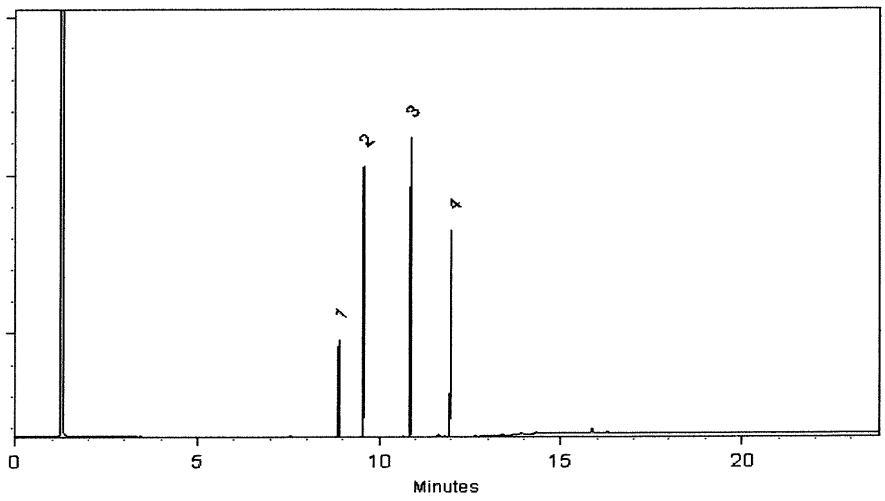
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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®
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
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® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

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.

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)

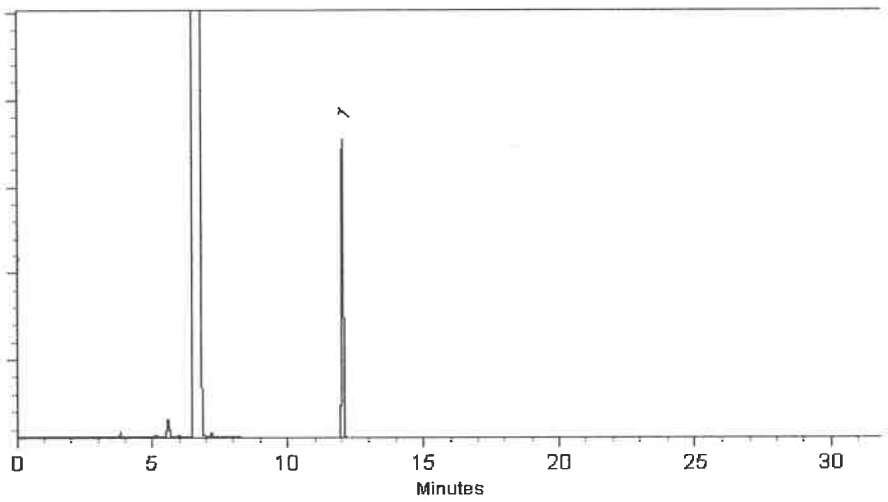
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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)

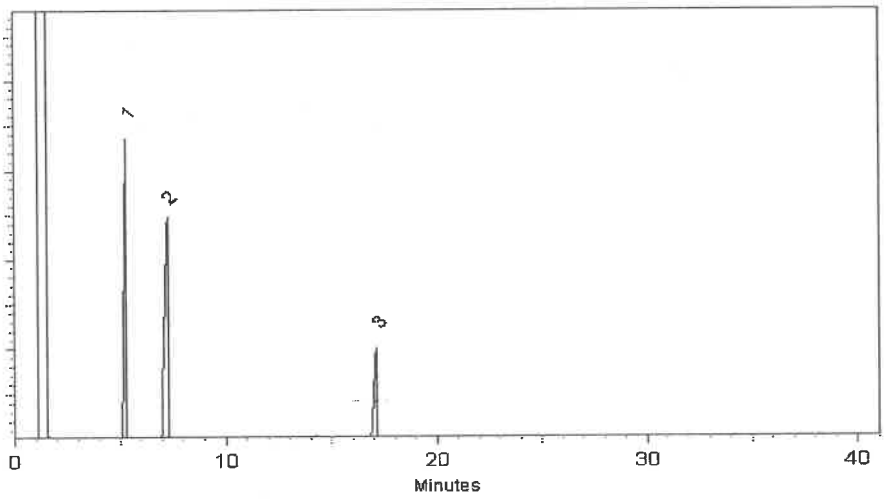
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

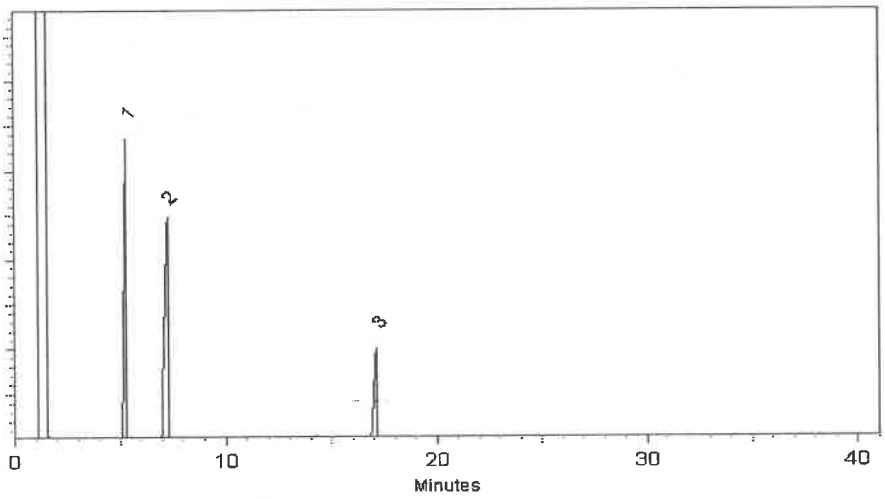
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

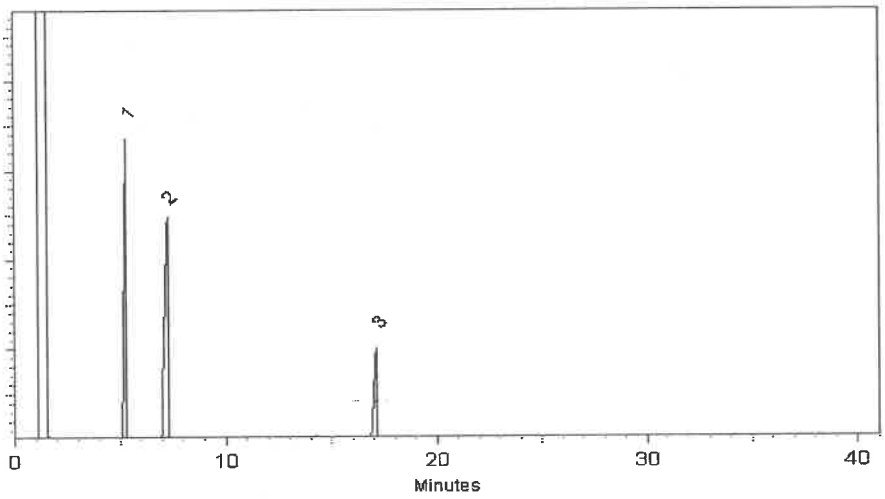
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

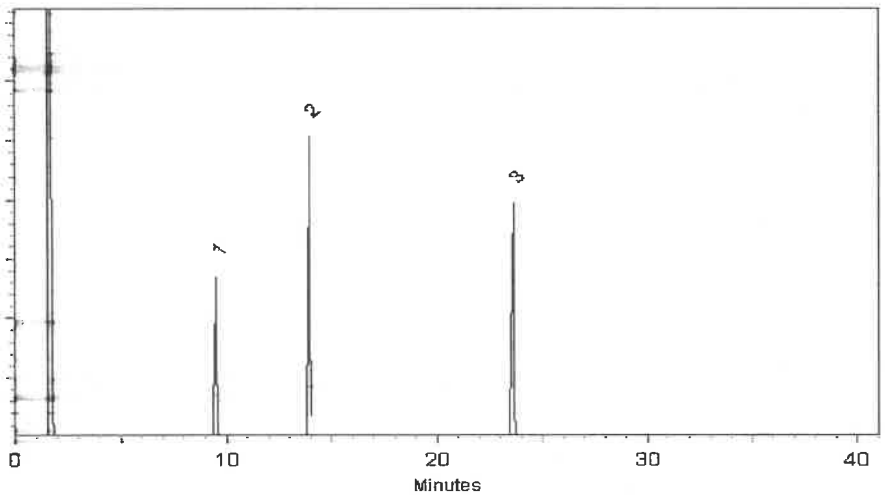
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

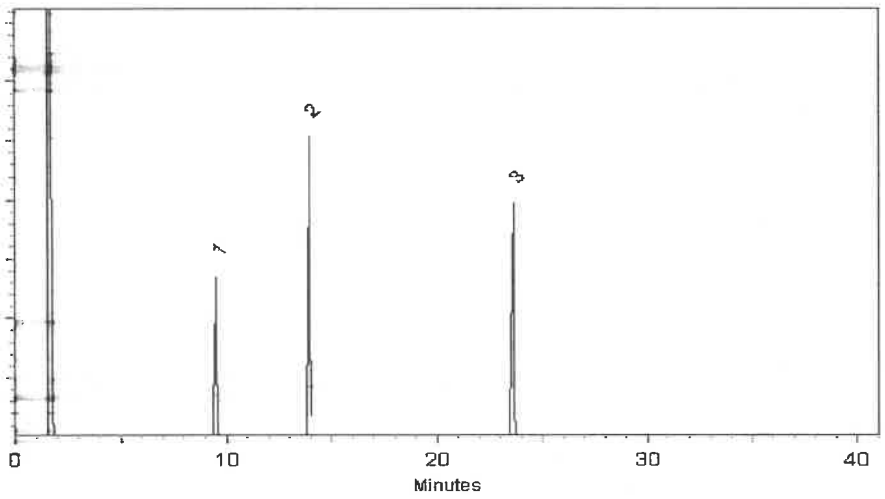
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

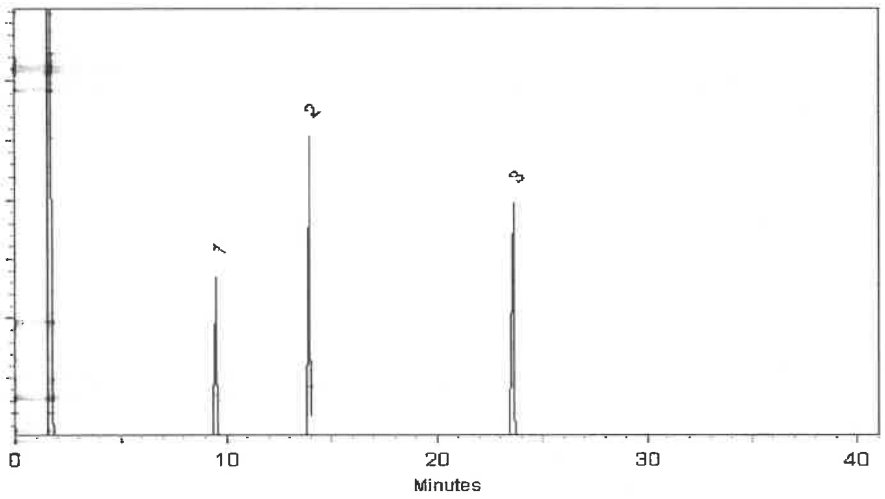
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

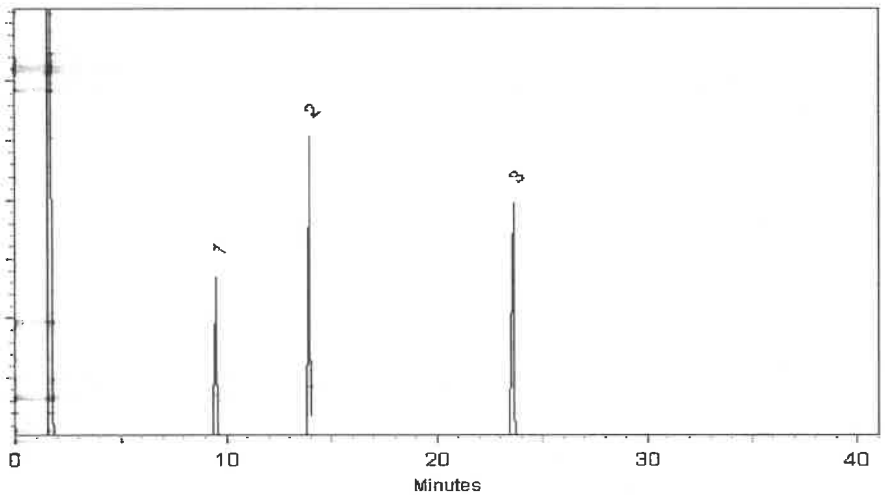
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

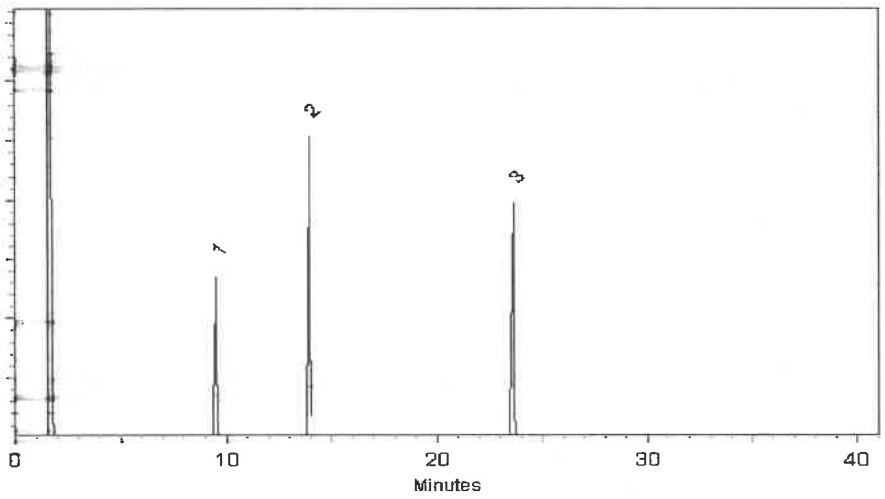
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

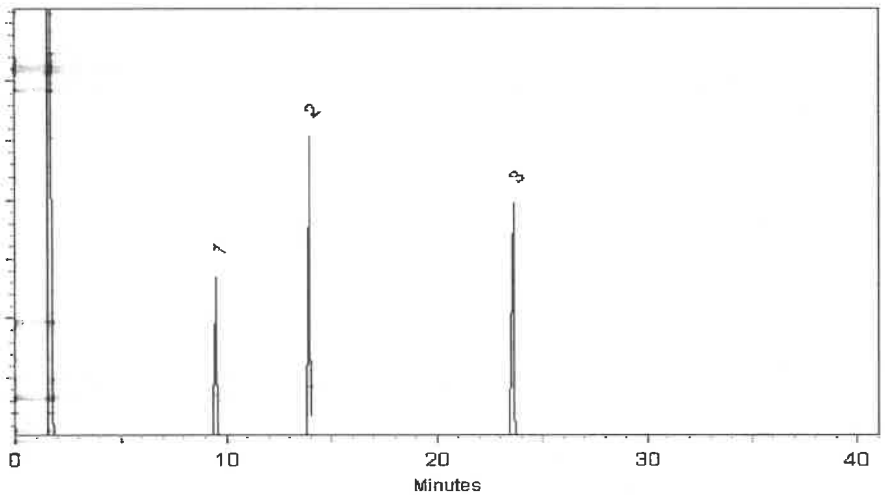
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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)

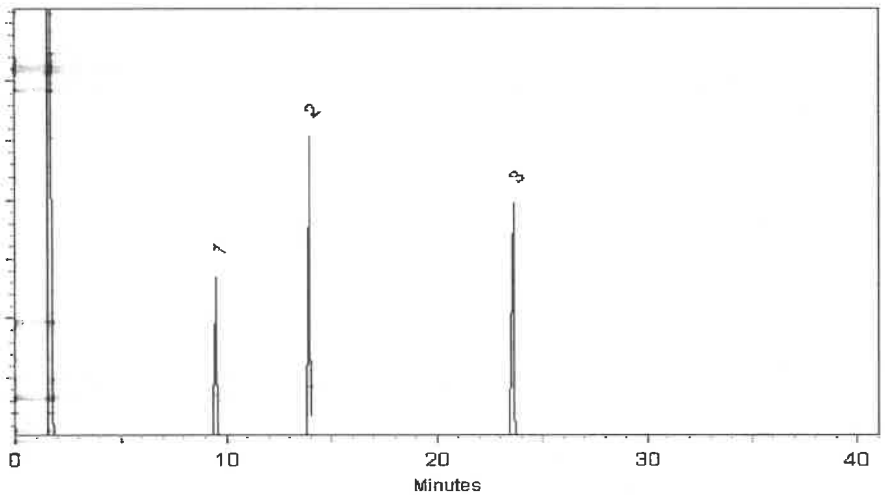
Carrier Gas:
hydrogen-constant pressure 10 psi.

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. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

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 RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 12/13/24

E 3846

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



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

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.

S11484 ↓ S11493 Y.P. 08/10/23

Catalog No. : 555870 **Lot No.:** A0200549

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 : August 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	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician

Date Mixed: 02-Aug-2023 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
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.)

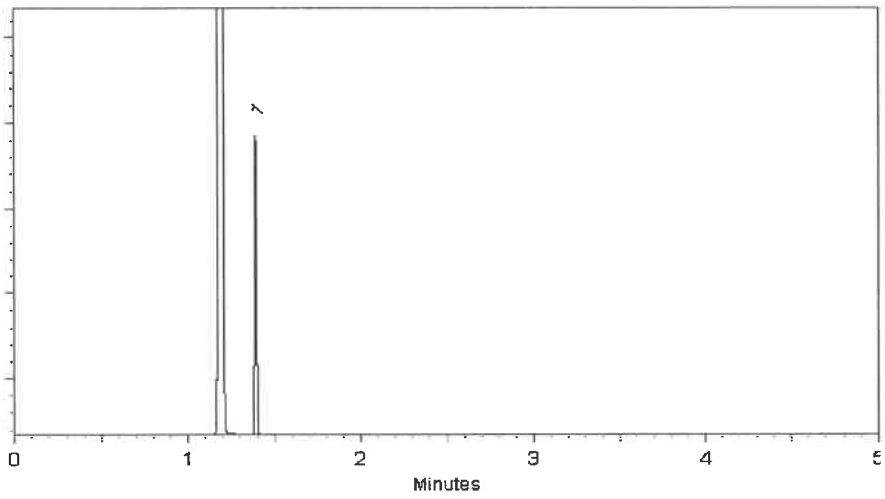
Inj. Temp:
250°C

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.)

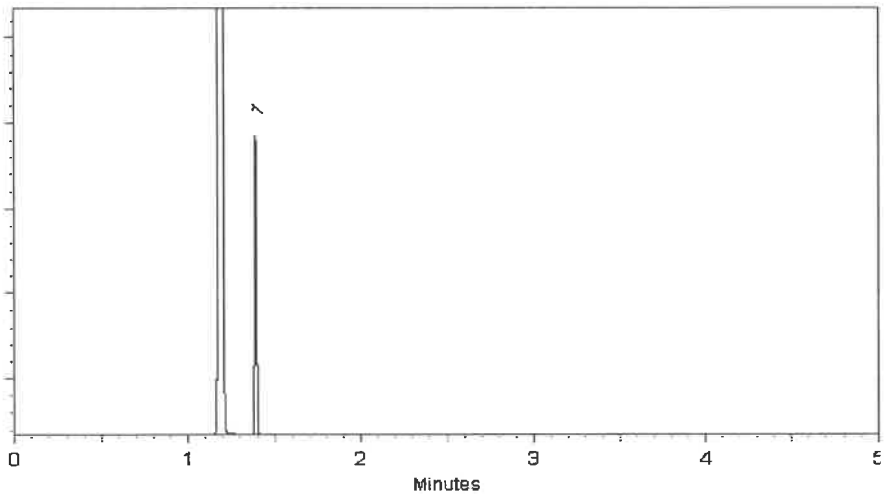
Inj. Temp:
250°C

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.)

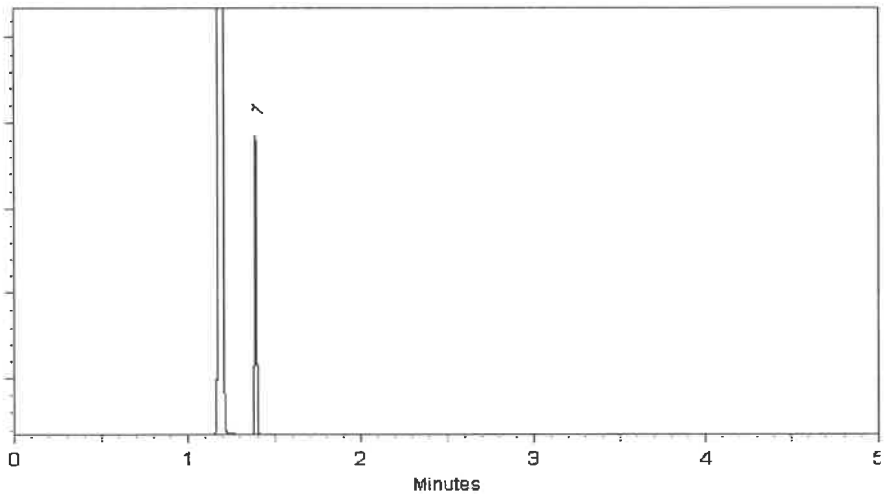
Inj. Temp:
250°C

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

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.)

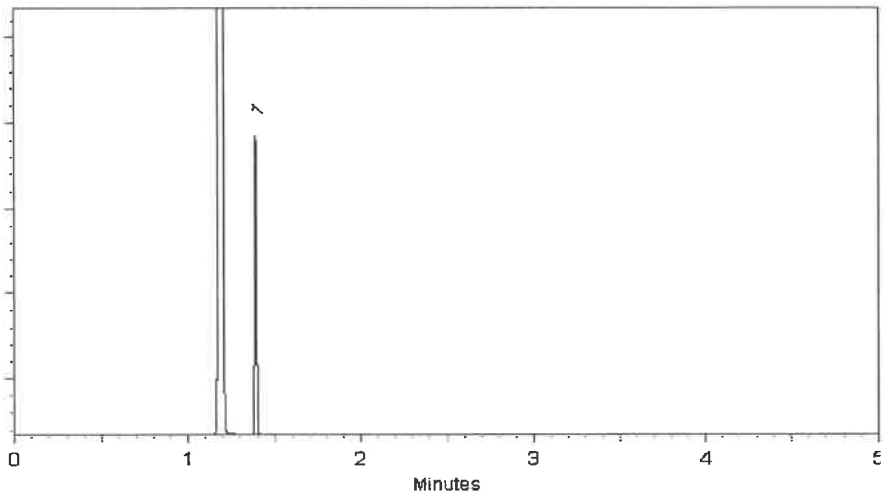
Inj. Temp:
250°C

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.)

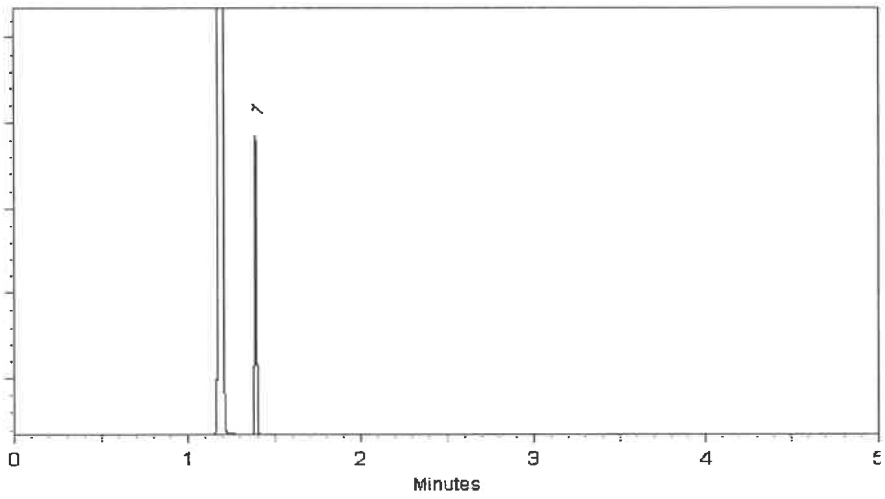
Inj. Temp:
250°C

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.

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

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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

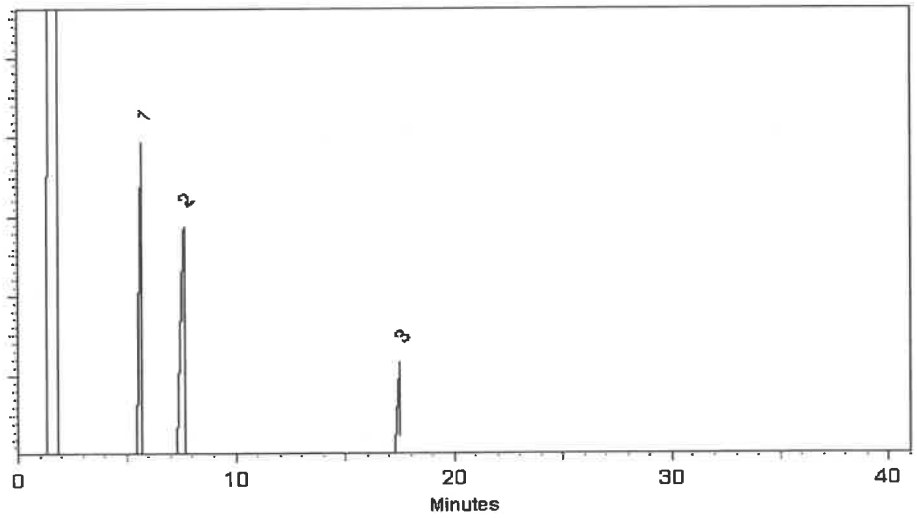
Inj. Temp:
250°C

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.)

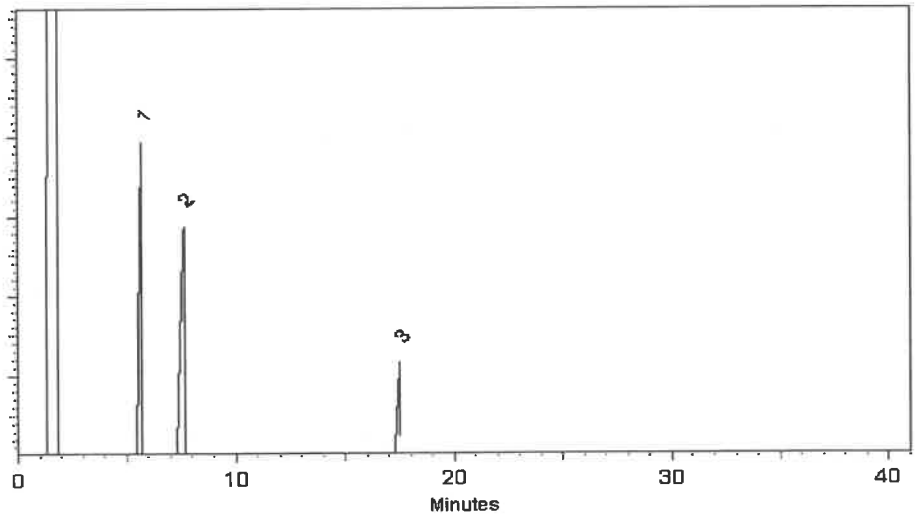
Inj. Temp:
250°C

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

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

S12187 ↓ S12206 } RC/ 03/18/24

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.)

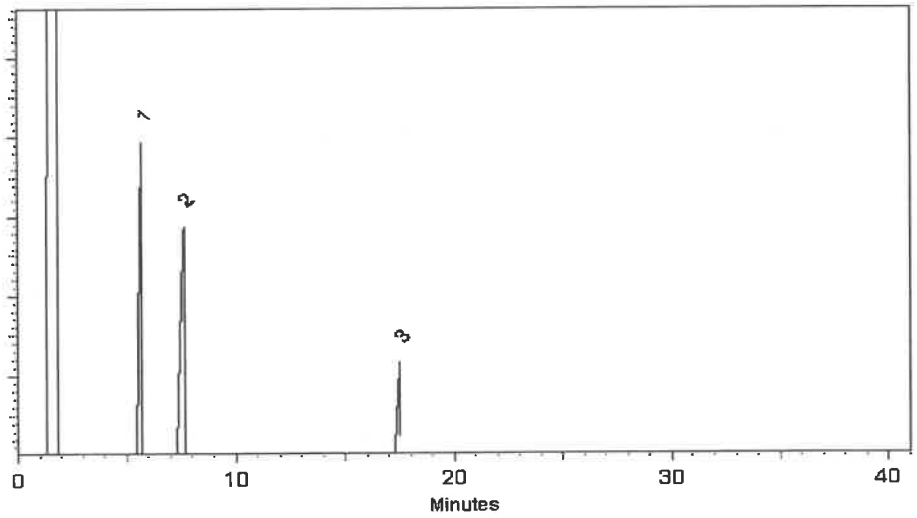
Inj. Temp:
250°C

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

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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-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.)

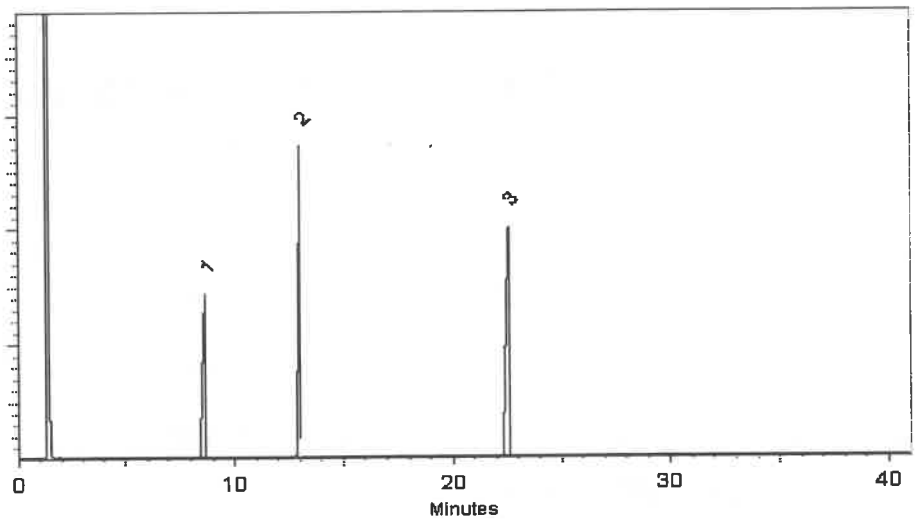
Inj. Temp:
250°C

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

Certificate of Analysis

chromatographic plus

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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-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.)

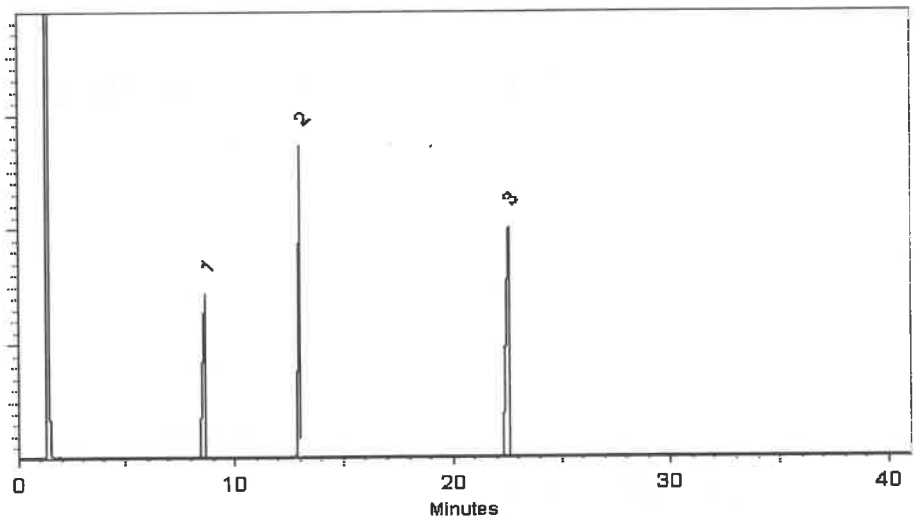
Inj. Temp:
250°C

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-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Kerry E Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined 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 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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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.

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.)

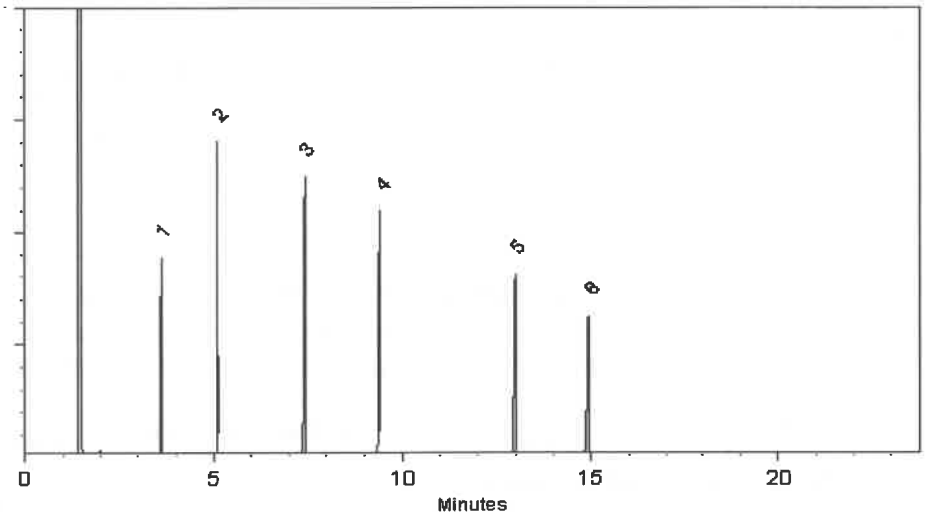
Inj. Temp:
250°C

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

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

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

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

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

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

chromatographic plus

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

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

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

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

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.

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.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302



54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

q1352

Weston COC ID
Weston_20250210_1440

Chain of Custody Record/Lab Work Request

Page 1 of 1

Client:	Weston Solutions, Inc.		
Project Manager:	David Sembrot		
Street Address:	1400 Weston Way	City:	West Chester
Phone:	610-314-5456	ST, ZIP:	PA, 19038
e-mail:	david.sembrot@westonsolutions.com		
Sampled By:	Cheyenne Harrington		

Project Name:	Fort Meade RI	Project POC:	Nathan Fretz
PO Number	0111169	Phone:	484-524-5665
W.O. #:		POC e-mail:	nathan.fretz@westonsolutions.com
Lab:	CHEMTECH	Lab POC:	Jordan Hedvat
TAT (days):	21	Lab Phone:	908-728-3144
Lab Address:	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SS - Soil
SE - Sediment
SO - Solid
SL - Sludge
GW - Groundwater
W - Water
SB - Soil Boring
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab Use Only		
Temperature of cooler when received (°C)		
COC Tape was present and unbroken on outer package?	Y	N
Samples received in good condition?	Y	N
Labels indicate properly preserved?	Y	N
Received within holding times?	Y	N
Discrepancies between sample labels and COC record?	Y	N

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected	Analyses Requested: TCLP VOCs by EPA 8260D (1311)	TCLP SVOCs by EPA 8270E (1311)	TCLP Metals by EPA 6010D/7470A	TCLP Pesticides by EPA 8081B	TCLP Herbicides by EPA 8151A	Total Sulfide by EPA 9034	Total Cyanide by EPA 9012B	PCB by EPA 8082A	Ignitability by EPA 1030	pH by EPA 9045D			Special Instructions/Comments
	Container Type:							Encore	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass	Glass			
	Container Size:							25g	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz	8 oz			
	Preservative:							Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6			
1	~~TAP-SOIL-IDW-021025~~ TAP-IDW-SOIL-021025	c	DS	6	no	2/10/2025	13:40	X	X	X	X	X	X	X	X	X	X			
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

CH

FedEx Shipping Airbill Number: 7719 9075 4644

Cooler Number: 1 of 1

	Relinquished By	Date	Time	Received By	Date	Time	Additional Comments
1.)		10 Feb 25	1800	yg 3.1	2/11/2025 9:10		QSM 6.0 Compliant
2.)							Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD
3.)							

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Quantitation Report (Not Reviewed)

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	88879	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	361197	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	200046	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	347312	20.000	ng		0.00
76) Chrysene-d12	13.957	240	284792	20.000	ng		0.00
86) Perylene-d12	15.416	264	215900	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	114669	20.227	ng		0.00
7) Phenol-d6	6.422	99	144805	20.209	ng		-0.02
23) Nitrobenzene-d5	7.345	82	136996	19.783	ng		-0.02
42) 2,4,6-Tribromophenol	10.610	330	40073	19.941	ng		-0.02
45) 2-Fluorobiphenyl	9.145	172	271988	20.947	ng		0.00
79) Terphenyl-d14	12.898	244	314541	18.645	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.481	88	23063	10.108	ng		95
3) Pyridine	3.216	79	53532	9.859	ng		99
4) n-Nitrosodimethylamine	3.146	42	34386	9.564	ng	#	97
6) Aniline	6.446	93	68661	10.215	ng		92
8) 2-Chlorophenol	6.575	128	62679	10.232	ng		99
9) Benzaldehyde	6.334	77	44111	11.585	ng		99
10) Phenol	6.440	94	74689	10.015	ng		96
11) bis(2-Chloroethyl)ether	6.522	93	54627	9.752	ng		98
12) 1,3-Dichlorobenzene	6.728	146	65850	10.182	ng		98
13) 1,4-Dichlorobenzene	6.804	146	68330	10.341	ng		97
14) 1,2-Dichlorobenzene	6.957	146	63948	10.428	ng		99
15) Benzyl Alcohol	6.928	79	55580	10.115	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	99782	10.406	ng		98
17) 2-Methylphenol	7.045	107	48375	10.092	ng		97
18) Hexachloroethane	7.298	117	24233	9.910	ng		98
19) n-Nitroso-di-n-propyla...	7.192	70	43762	10.210	ng		97
20) 3+4-Methylphenols	7.198	107	62949	10.332	ng		96
22) Acetophenone	7.192	105	90614	10.085	ng	#	97
24) Nitrobenzene	7.363	77	67032	9.927	ng		96
25) Isophorone	7.604	82	107242	9.712	ng		99
26) 2-Nitrophenol	7.687	139	31590	9.403	ng		97
27) 2,4-Dimethylphenol	7.728	122	38303	9.759	ng		98
28) bis(2-Chloroethoxy)met...	7.816	93	70458	9.958	ng		97
29) 2,4-Dichlorophenol	7.934	162	51883	9.784	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	57937	10.033	ng		97
31) Naphthalene	8.092	128	188046	10.002	ng		99
32) Benzoic acid	7.810	122	33645	8.253	ng		98
33) 4-Chloroaniline	8.145	127	63529	9.678	ng		98
34) Hexachlorobutadiene	8.210	225	34431	9.932	ng		98
35) Caprolactam	8.481	113	15331	9.495	ng		98
36) 4-Chloro-3-methylphenol	8.628	107	58441	9.949	ng		99
37) 2-Methylnaphthalene	8.781	142	124517	10.177	ng		99
38) 1-Methylnaphthalene	8.881	142	118722	10.019	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	58800	10.160	ng		98
41) Hexachlorocyclopentadiene	8.934	237	13785	7.161	ng		91
43) 2,4,6-Trichlorophenol	9.063	196	36558	9.773	ng		99

Quantitation Report (Not Reviewed)

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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

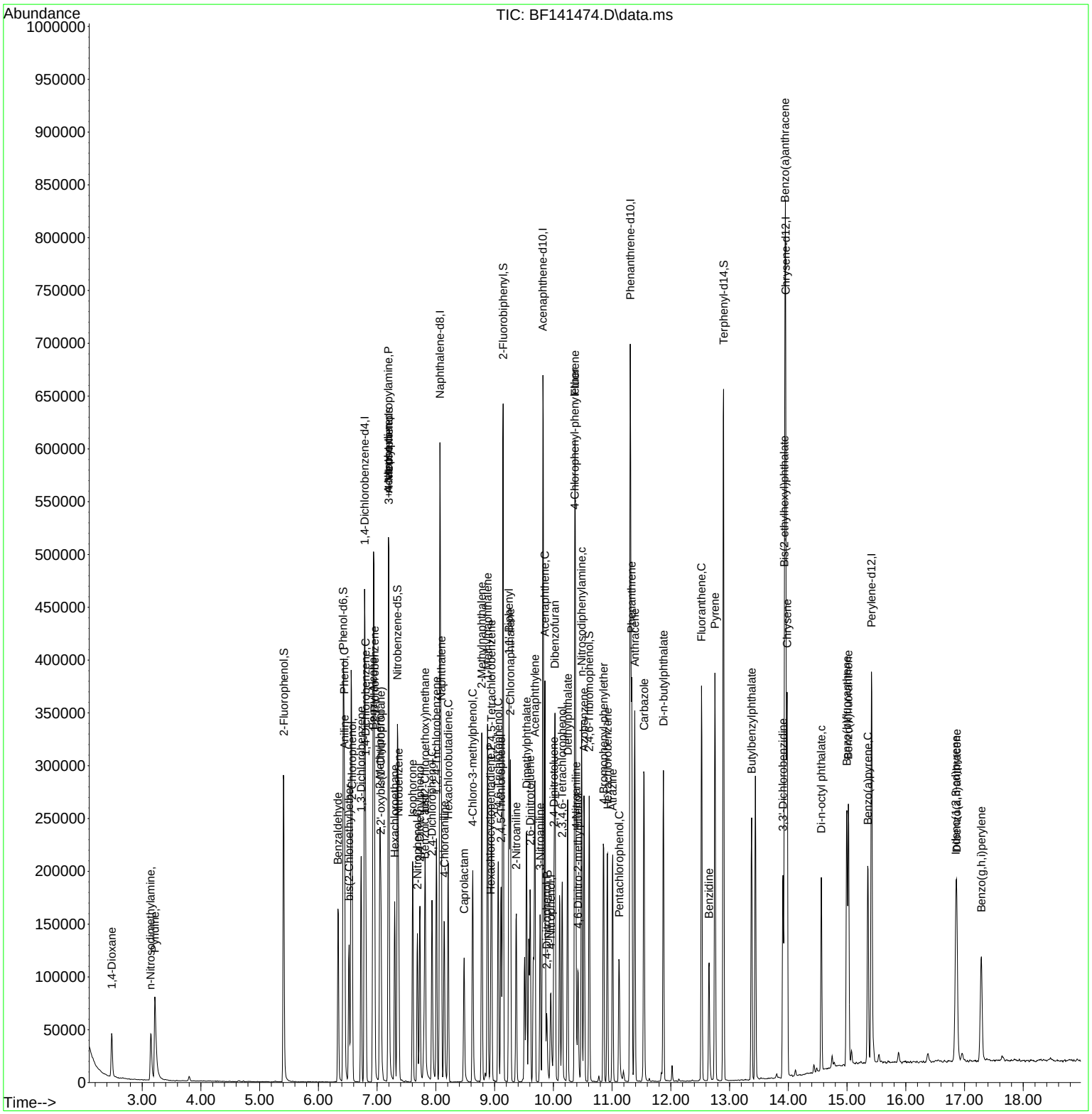
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	40697	10.039	ng		97
46) 1,1'-Biphenyl	9.245	154	156431	10.086	ng		99
47) 2-Chloronaphthalene	9.269	162	116119	10.125	ng		99
48) 2-Nitroaniline	9.369	65	37155	9.653	ng		96
49) Acenaphthylene	9.686	152	173644	10.179	ng		99
50) Dimethylphthalate	9.545	163	135886	10.006	ng		100
51) 2,6-Dinitrotoluene	9.604	165	29006	9.770	ng		96
52) Acenaphthene	9.857	154	124038	10.816	ng		99
53) 3-Nitroaniline	9.775	138	31330	9.805	ng		100
54) 2,4-Dinitrophenol	9.886	184	13341	7.561	ng		98
55) Dibenzofuran	10.028	168	172206	10.230	ng		98
56) 4-Nitrophenol	9.957	139	21569	9.093	ng		96
57) 2,4-Dinitrotoluene	10.010	165	40306	10.198	ng		93
58) Fluorene	10.369	166	136110	10.458	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	36102	10.344	ng	#	96
60) Diethylphthalate	10.245	149	134593	10.073	ng		99
61) 4-Chlorophenyl-phenyle...	10.363	204	64305	10.270	ng		97
62) 4-Nitroaniline	10.386	138	31934	9.842	ng		98
63) Azobenzene	10.522	77	132968	10.010	ng		99
65) 4,6-Dinitro-2-methylph...	10.422	198	20074	8.320	ng		98
66) n-Nitrosodiphenylamine	10.481	169	113408	10.201	ng		98
67) 4-Bromophenyl-phenylether	10.857	248	38257	9.856	ng		97
68) Hexachlorobenzene	10.922	284	40715	10.186	ng		98
69) Atrazine	11.010	200	35287	10.580	ng		98
70) Pentachlorophenol	11.122	266	22735	8.895	ng		98
71) Phenanthrene	11.333	178	196586	10.283	ng		99
72) Anthracene	11.386	178	195528	10.174	ng		99
73) Carbazole	11.545	167	178223	10.306	ng		99
74) Di-n-butylphthalate	11.875	149	200806	10.057	ng		100
75) Fluoranthene	12.522	202	215218	10.618	ng		99
77) Benzidine	12.651	184	69402	11.050	ng		98
78) Pyrene	12.751	202	221721	9.146	ng		99
80) Butylbenzylphthalate	13.374	149	76852	9.152	ng		100
81) Benzo(a)anthracene	13.945	228	189705	10.021	ng		99
82) 3,3'-Dichlorobenzidine	13.910	252	58487	10.785	ng		99
83) Chrysene	13.980	228	174103	9.960	ng		98
84) Bis(2-ethylhexyl)phtha...	13.933	149	86853	9.171	ng		98
85) Di-n-octyl phthalate	14.563	149	115875	8.576	ng		100
87) Indeno(1,2,3-cd)pyrene	16.851	276	111083	8.327	ng		98
88) Benzo(b)fluoranthene	14.998	252	151861	10.476	ng		98
89) Benzo(k)fluoranthene	15.021	252	131265	10.604	ng		99
90) Benzo(a)pyrene	15.357	252	115948	9.885	ng		99
91) Dibenzo(a,h)anthracene	16.868	278	89400	8.271	ng		99
92) Benzo(g,h,i)perylene	17.286	276	93242	8.243	ng		99

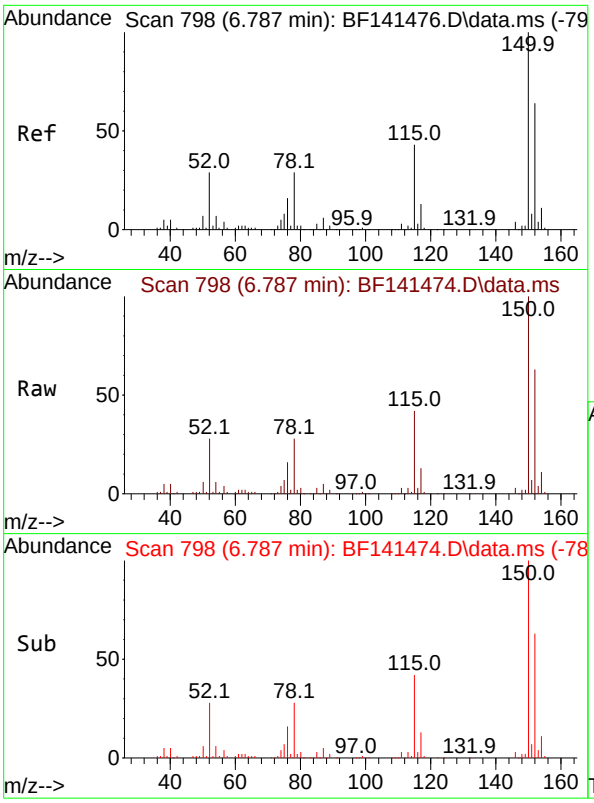
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

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



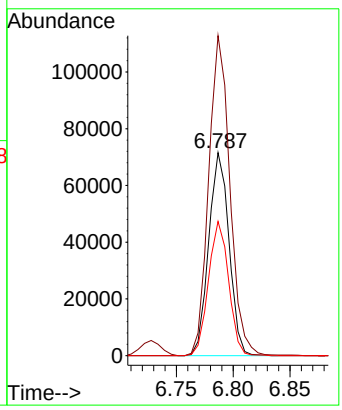


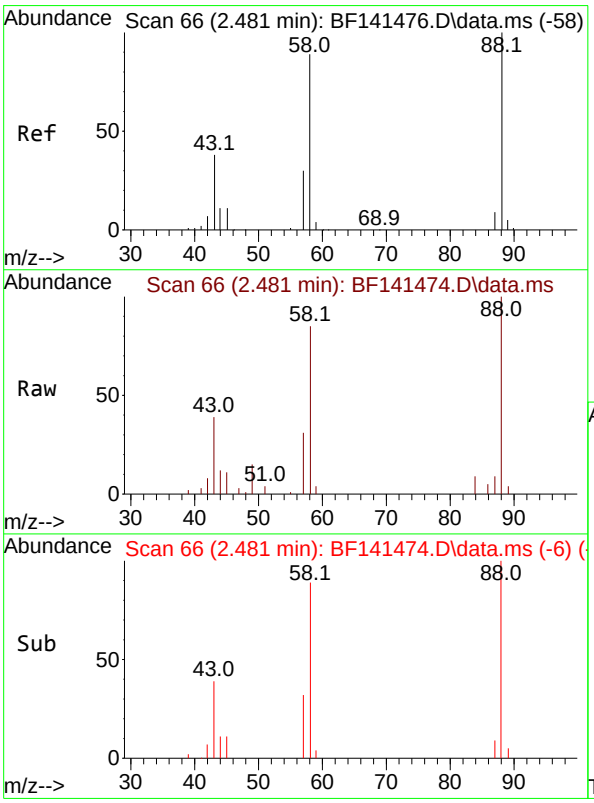
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 88879

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	66.1	53.6	80.4

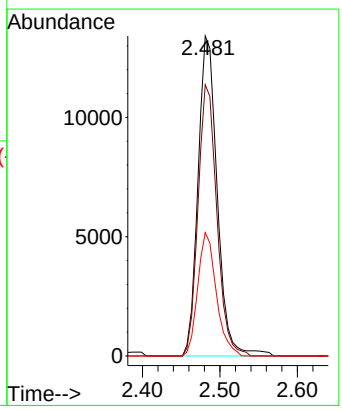


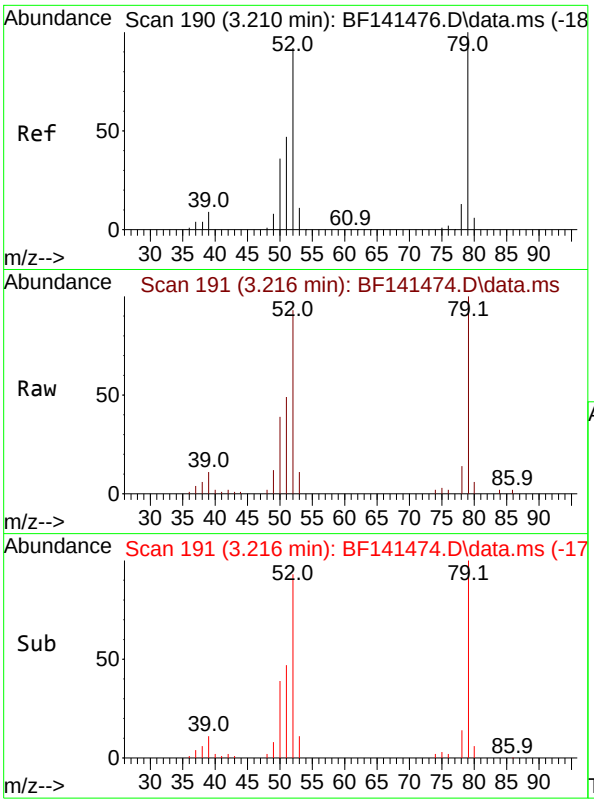


#2
1,4-Dioxane
Concen: 10.108 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 88 Resp: 23063

Ion	Ratio	Lower	Upper
88	100		
58	83.0	71.1	106.7
43	37.3	30.6	46.0



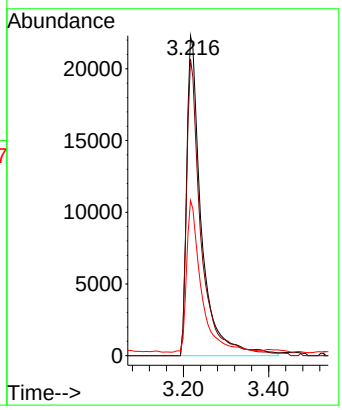


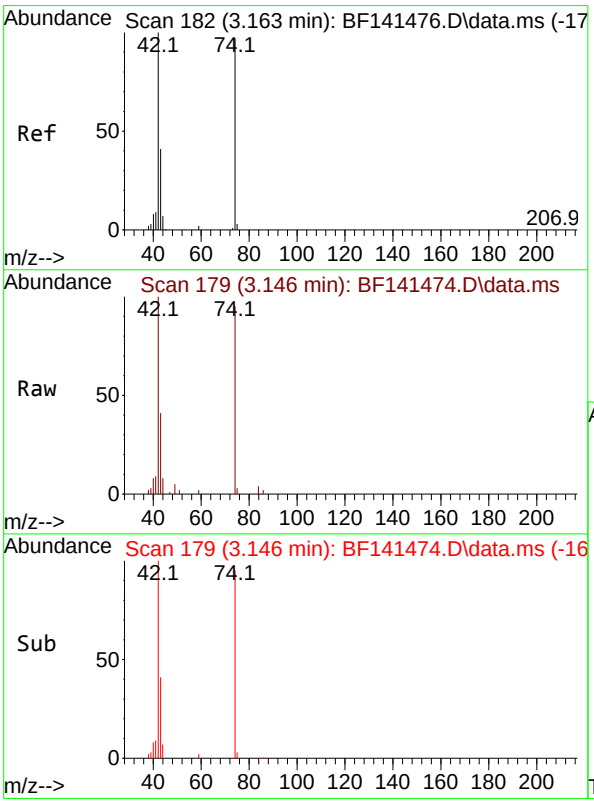
#3
Pyridine
Concen: 9.859 ng
RT: 3.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 53532

Ion	Ratio	Lower	Upper
79	100		
52	92.7	73.7	110.5
51	48.5	37.5	56.3

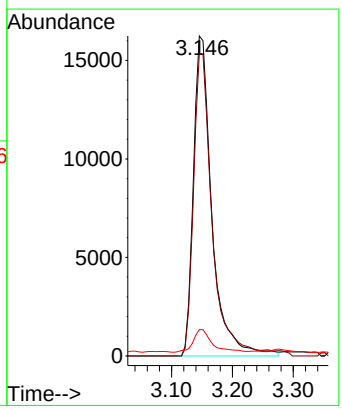


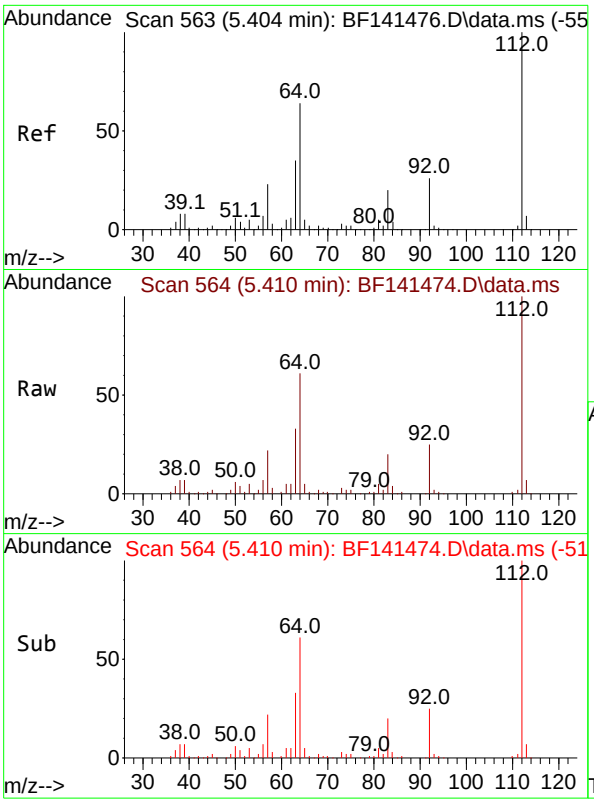


#4
n-Nitrosodimethylamine
Concen: 9.564 ng
RT: 3.146 min Scan# 179
Delta R.T. -0.041 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 42 Resp: 34386

Ion	Ratio	Lower	Upper
42	100		
74	94.6	78.0	117.0
44	8.3	5.4	8.2#



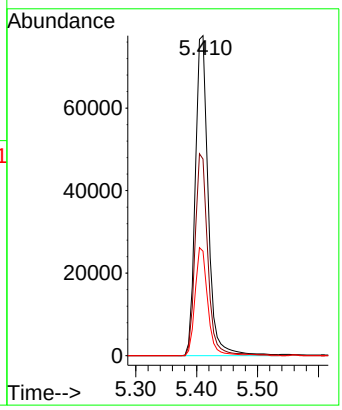


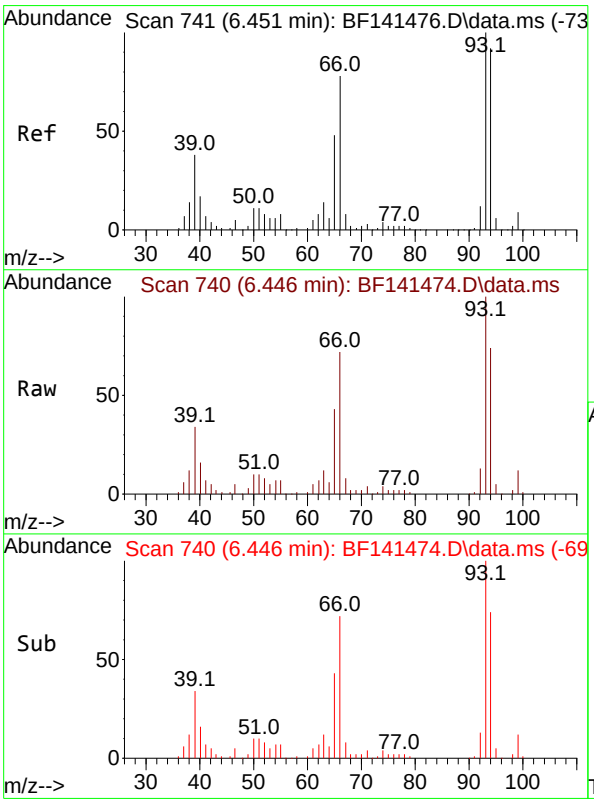
#5
2-Fluorophenol
Concen: 20.227 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 114669

Ion	Ratio	Lower	Upper
112	100		
64	61.5	51.1	76.7
63	32.6	28.4	42.6

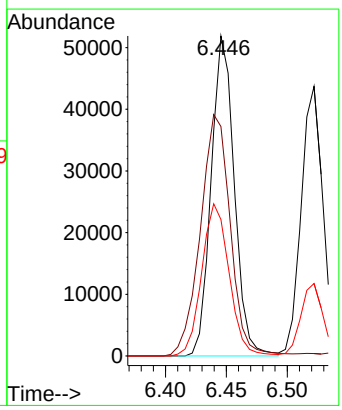


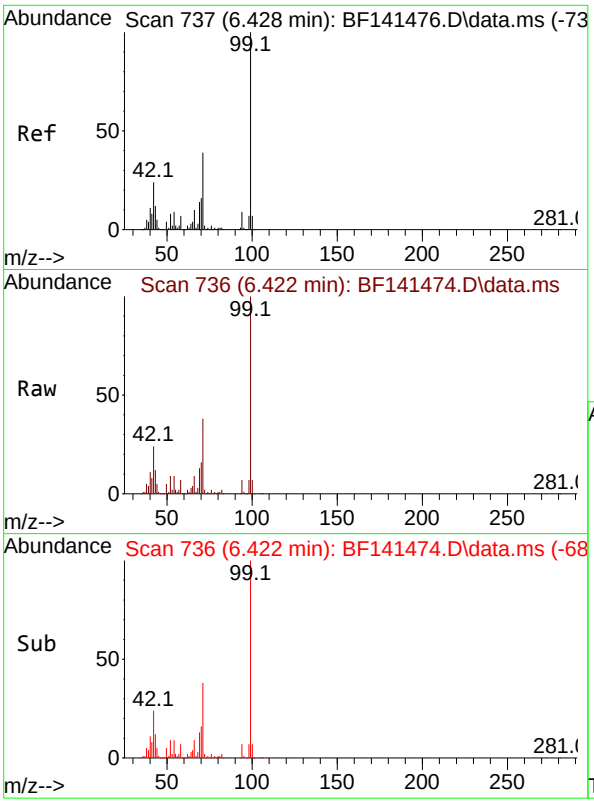


#6
Aniline
Concen: 10.215 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 68661

Ion	Ratio	Lower	Upper
93	100		
66	71.7	62.6	94.0
65	42.7	38.3	57.5



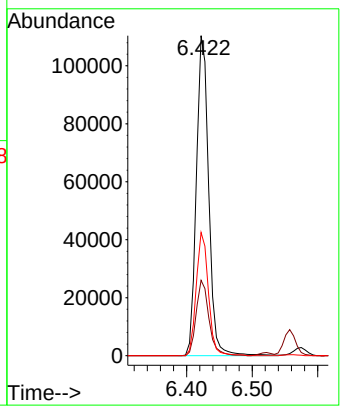


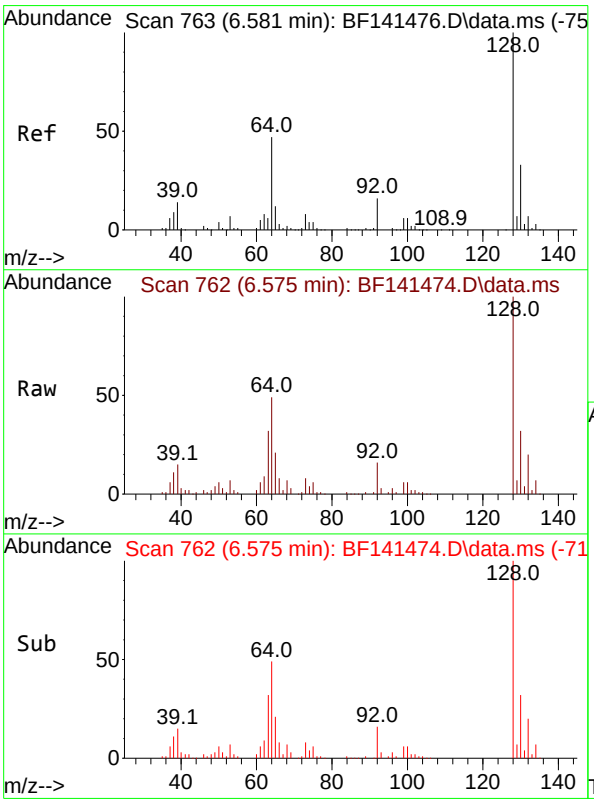
#7
Phenol-d6
Concen: 20.209 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 144805

Ion	Ratio	Lower	Upper
99	100		
42	23.6	19.1	28.7
71	38.5	31.1	46.7

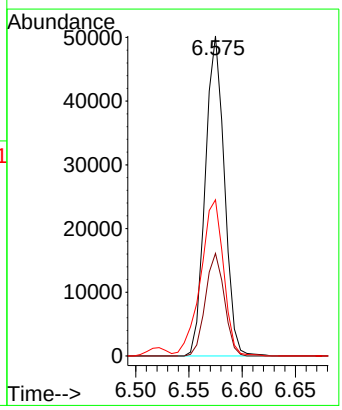


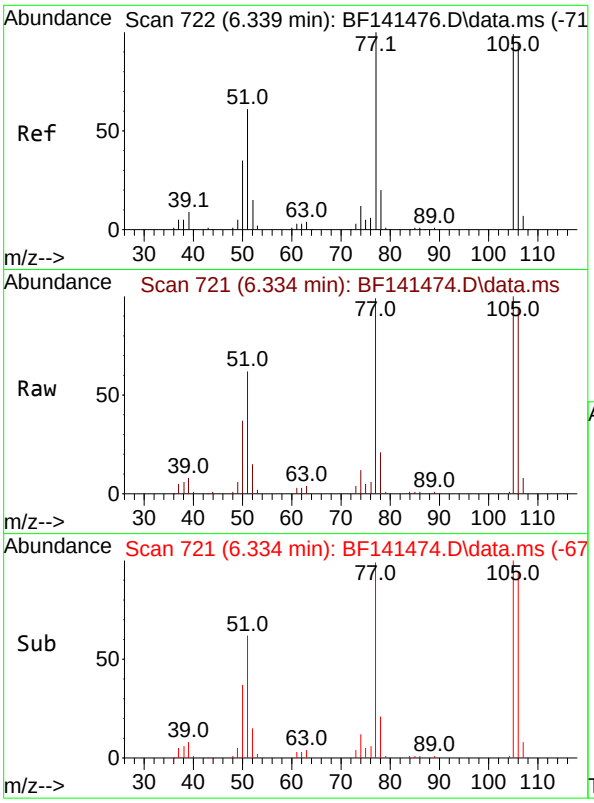


#8
2-Chlorophenol
Concen: 10.232 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:128 Resp: 62679

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.7	52.7
64	48.8	28.3	68.3



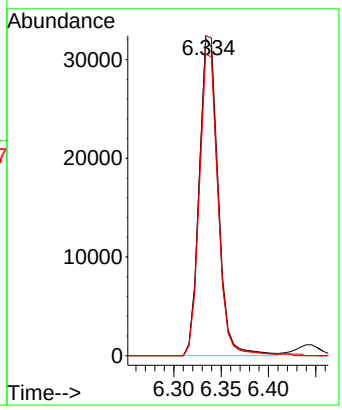


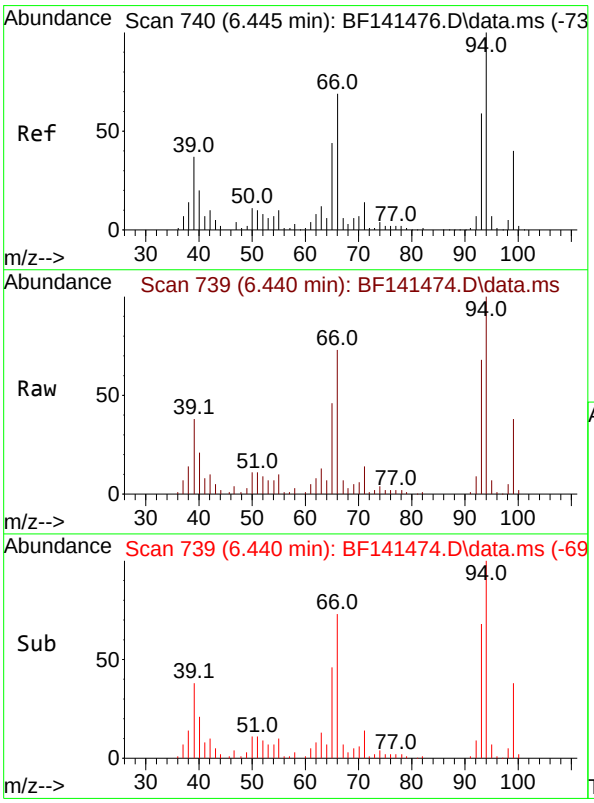
#9
Benzaldehyde
Concen: 11.585 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 44111

Ion	Ratio	Lower	Upper
77	100		
105	100.9	79.4	119.4
106	95.1	75.1	115.1

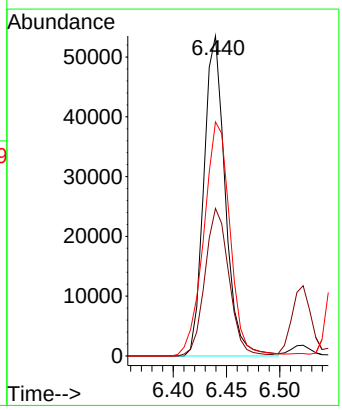


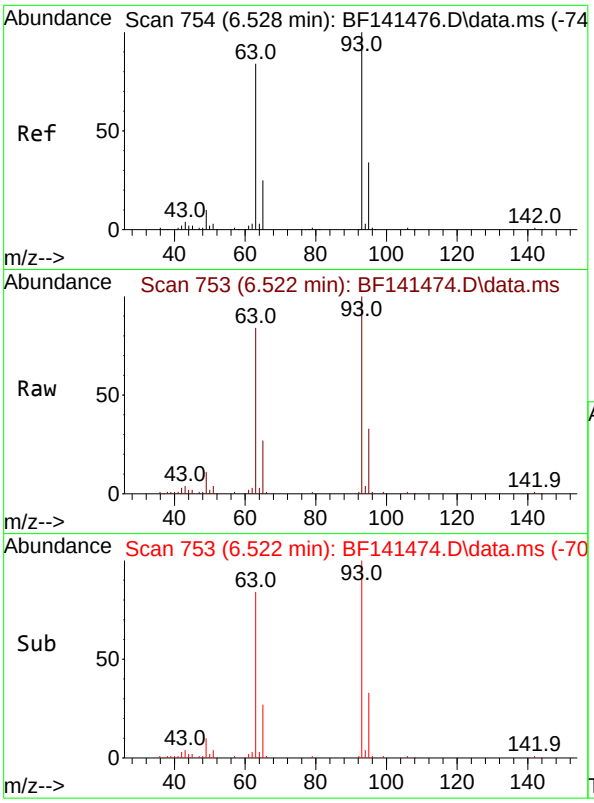


#10
Phenol
Concen: 10.015 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 94 Resp: 74689

Ion	Ratio	Lower	Upper
94	100		
65	46.1	23.7	63.7
66	73.1	49.3	89.3



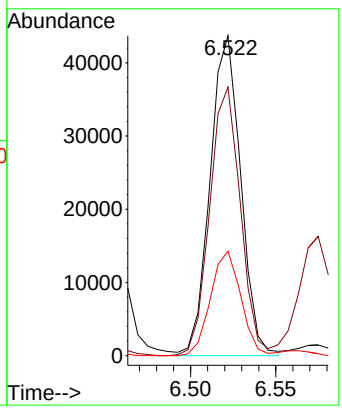


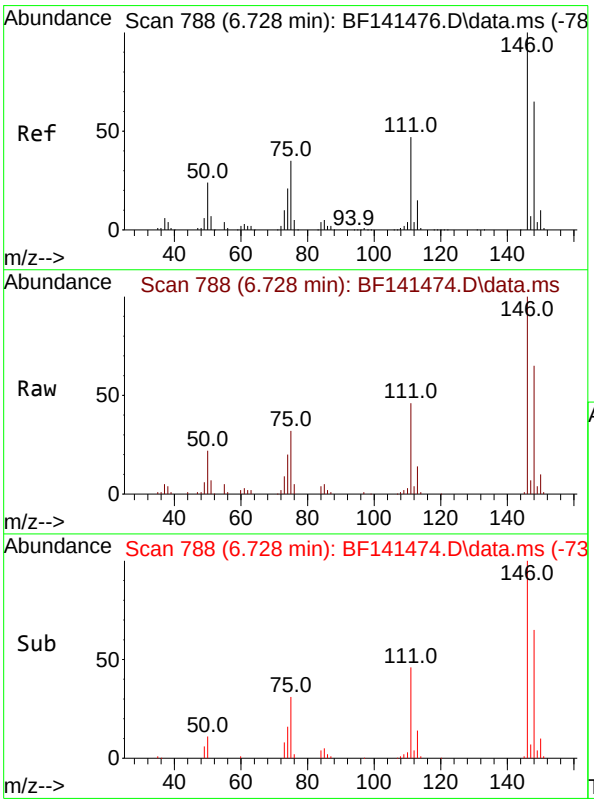
#11
bis(2-Chloroethyl)ether
Concen: 9.752 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 54627

Ion	Ratio	Lower	Upper
93	100		
63	83.9	62.0	102.0
95	32.6	12.6	52.6

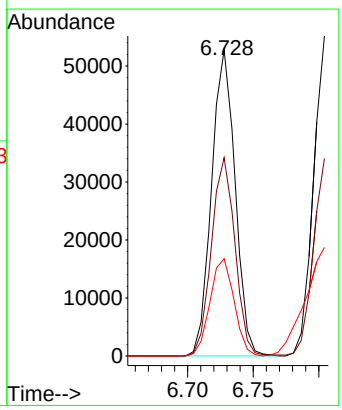


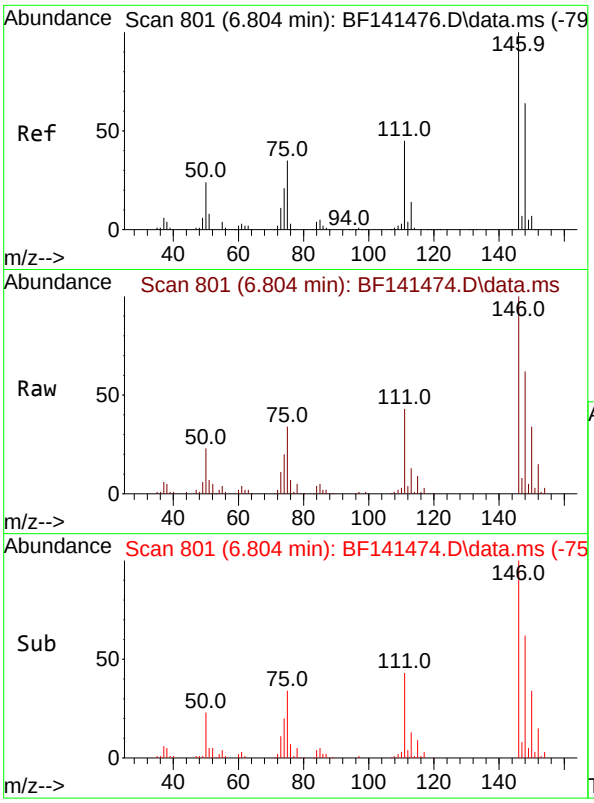


#12
1,3-Dichlorobenzene
Concen: 10.182 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 65850

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
75	31.8	28.2	42.2



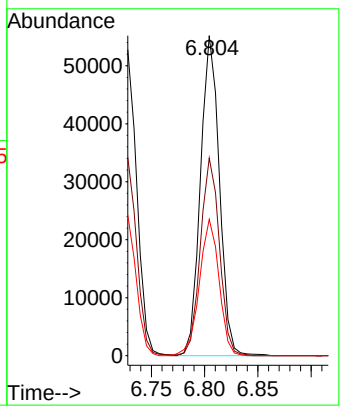


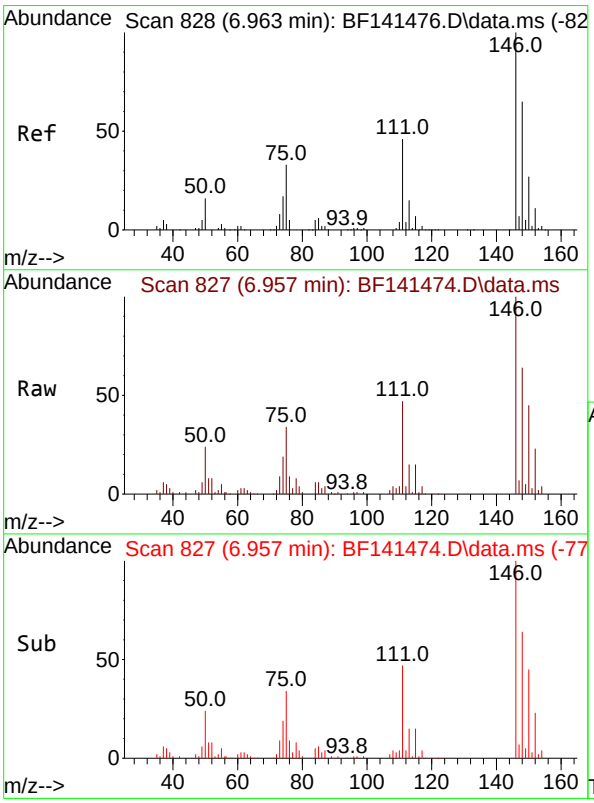
#13
1,4-Dichlorobenzene
Concen: 10.341 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 68330

Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.9	76.3
111	42.6	35.9	53.9

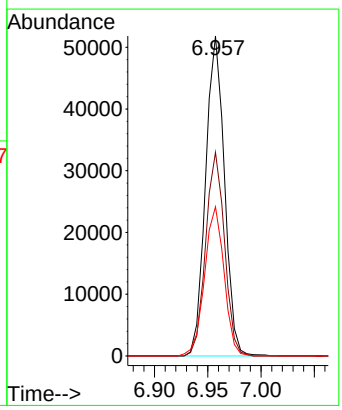


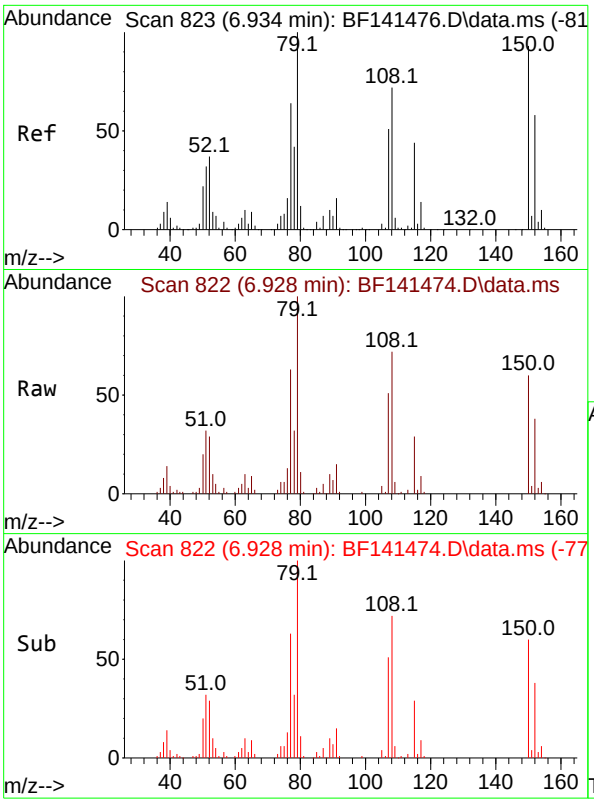


#14
1,2-Dichlorobenzene
Concen: 10.428 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:146 Resp: 63948

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.6
111	46.6	37.0	55.4



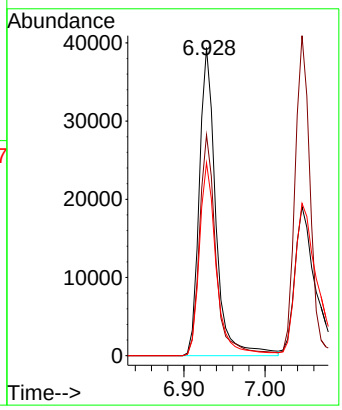


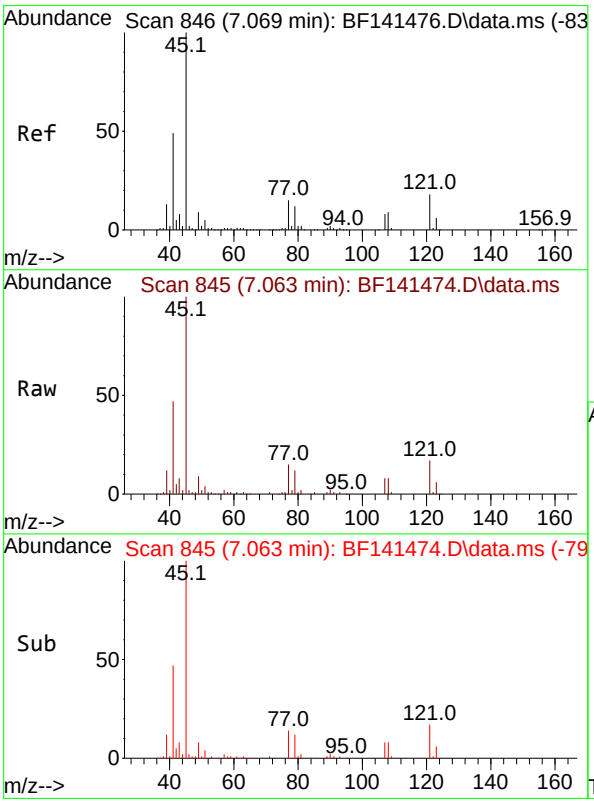
#15
Benzyl Alcohol
Concen: 10.115 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 55580

Ion	Ratio	Lower	Upper
79	100		
108	71.7	57.4	86.2
77	62.6	50.9	76.3

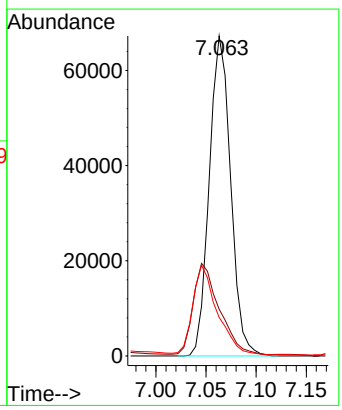


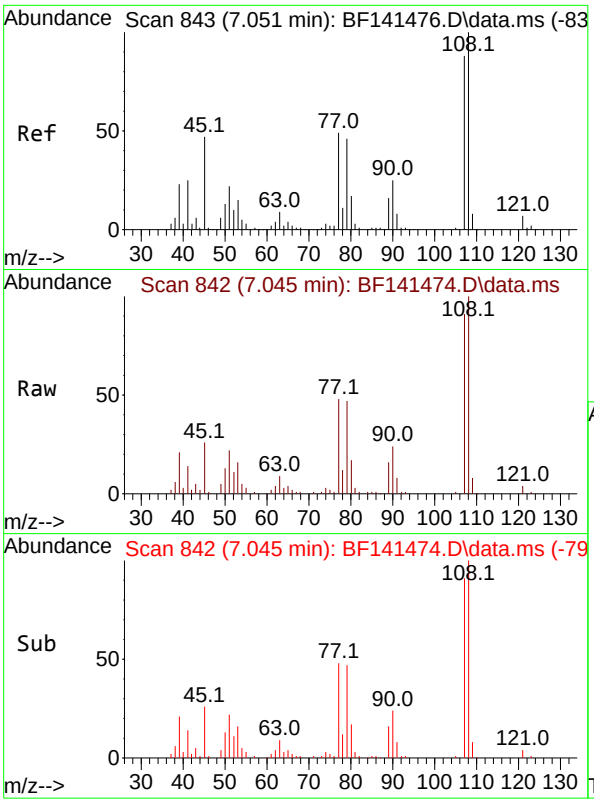


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.406 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 45 Resp: 99782

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	35.8
79	12.1	0.0	32.7



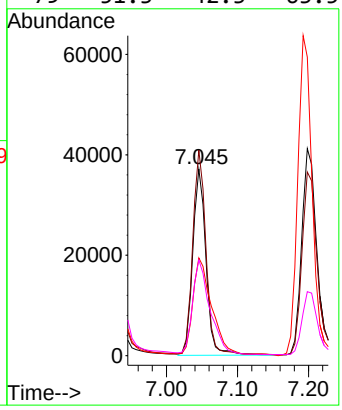


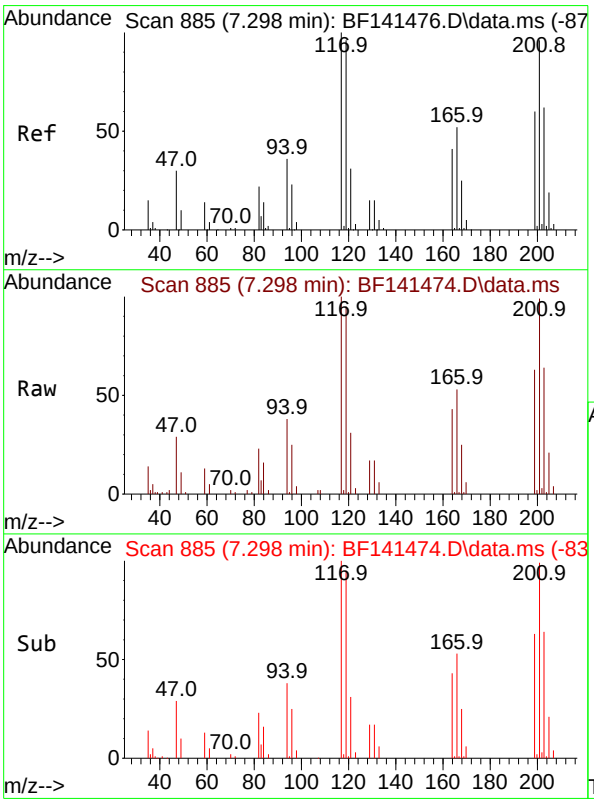
#17
2-Methylphenol
Concen: 10.092 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 48375

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

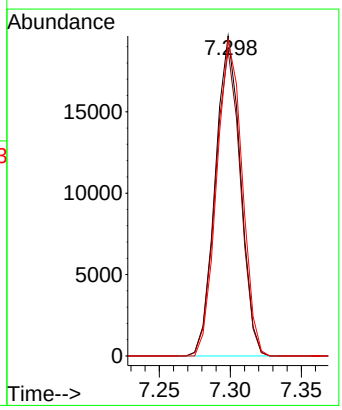


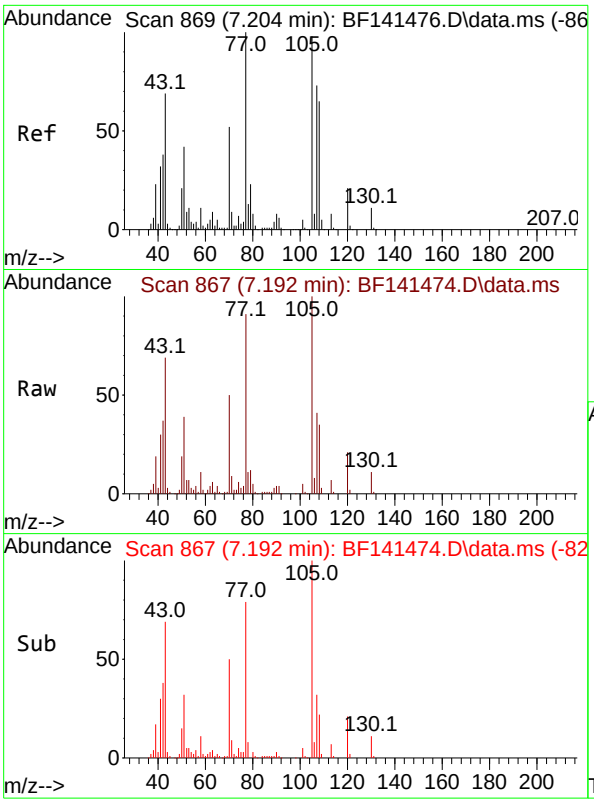


#18
Hexachloroethane
Concen: 9.910 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:117 Resp: 24233

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.5	114.7
201	98.8	76.7	115.1



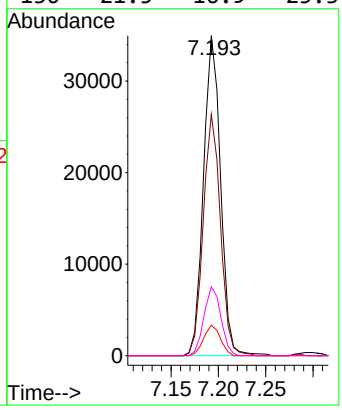


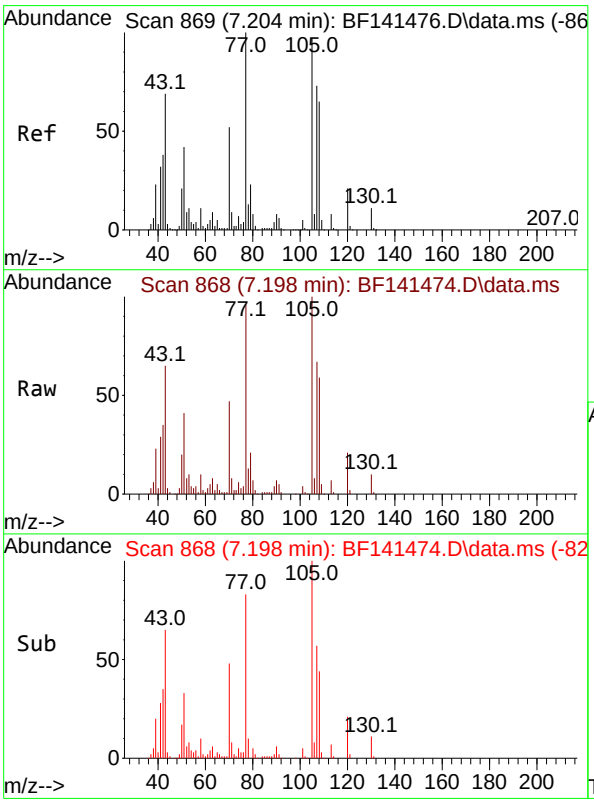
#19
n-Nitroso-di-n-propylamine
Concen: 10.210 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 43762

Ion	Ratio	Lower	Upper
70	100		
42	75.4	57.4	86.2
101	9.5	8.0	12.0
130	21.5	16.9	25.3

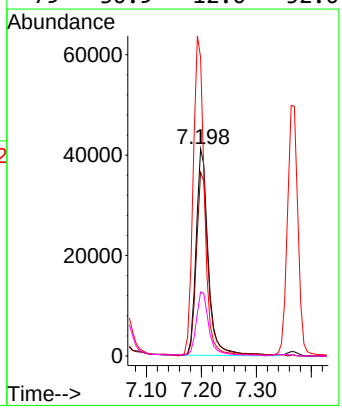


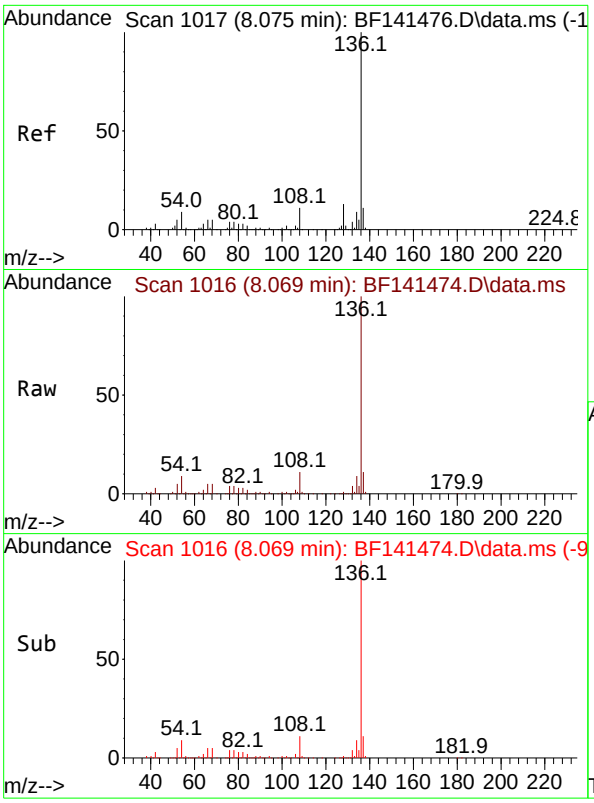


#20
3+4-Methylphenols
Concen: 10.332 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 62949

Ion	Ratio	Lower	Upper
107	100		
108	88.7	68.5	108.5
77	144.2	116.5	156.5
79	30.9	12.0	52.0



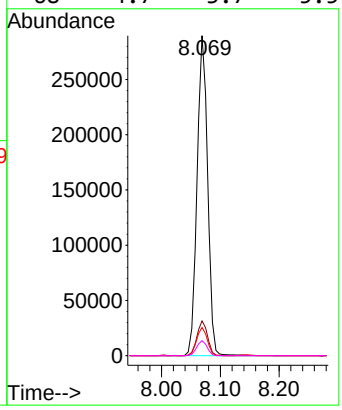


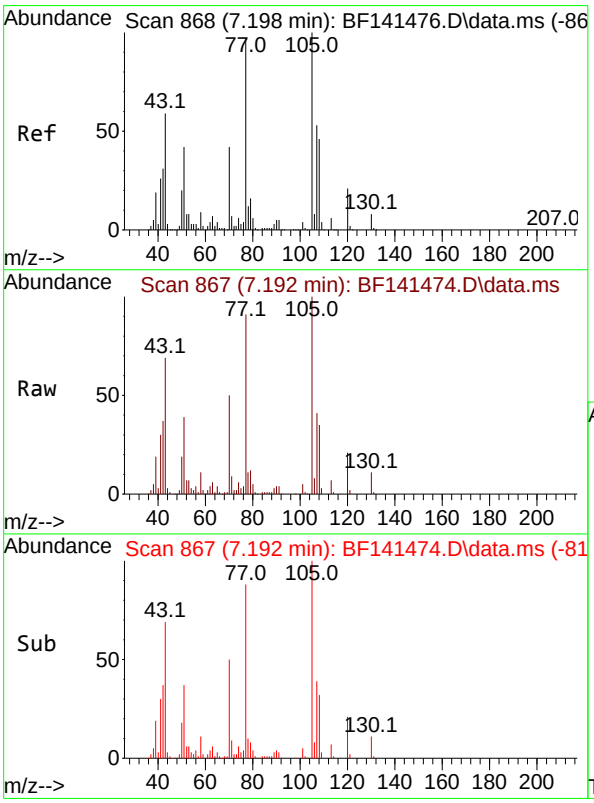
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 361197

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

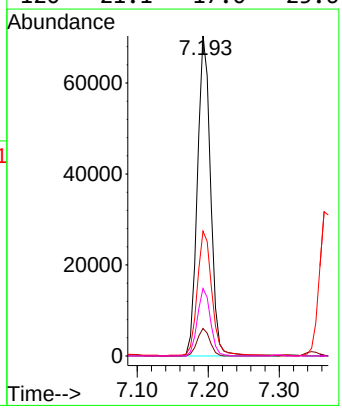


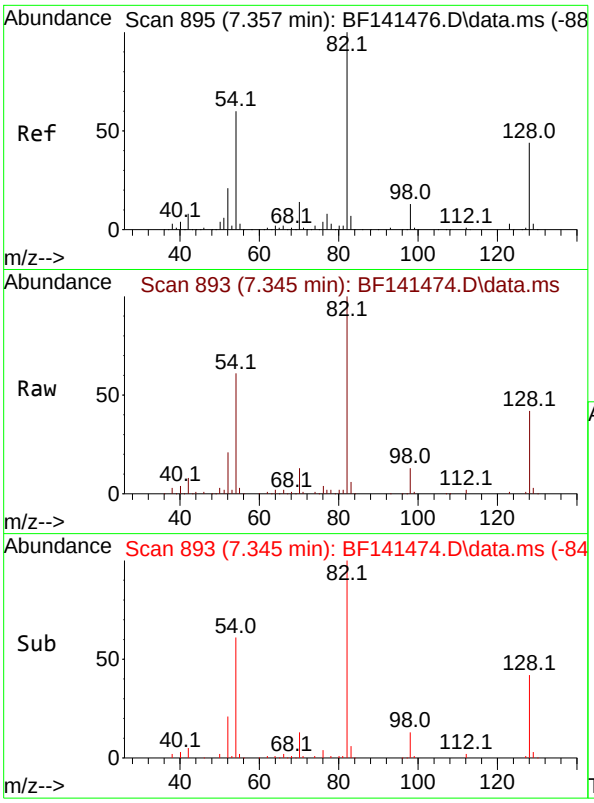


#22
Acetophenone
Concen: 10.085 ng
RT: 7.192 min Scan# 867
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:105 Resp: 90614

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



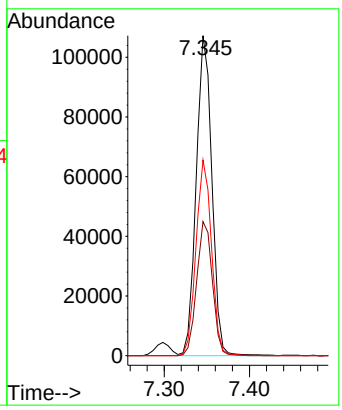


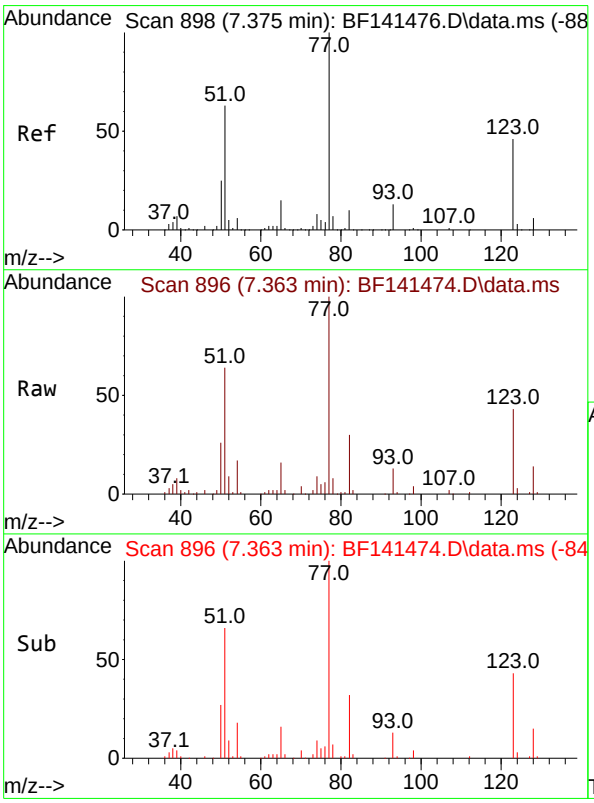
#23
Nitrobenzene-d5
Concen: 19.783 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 136996

Ion	Ratio	Lower	Upper
82	100		
128	41.9	34.8	52.2
54	61.2	48.2	72.4

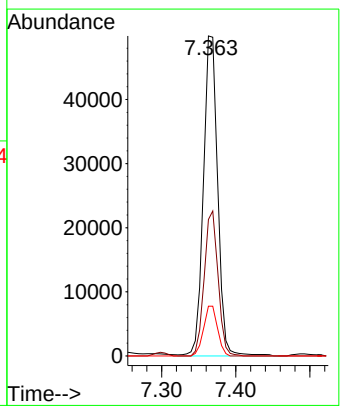


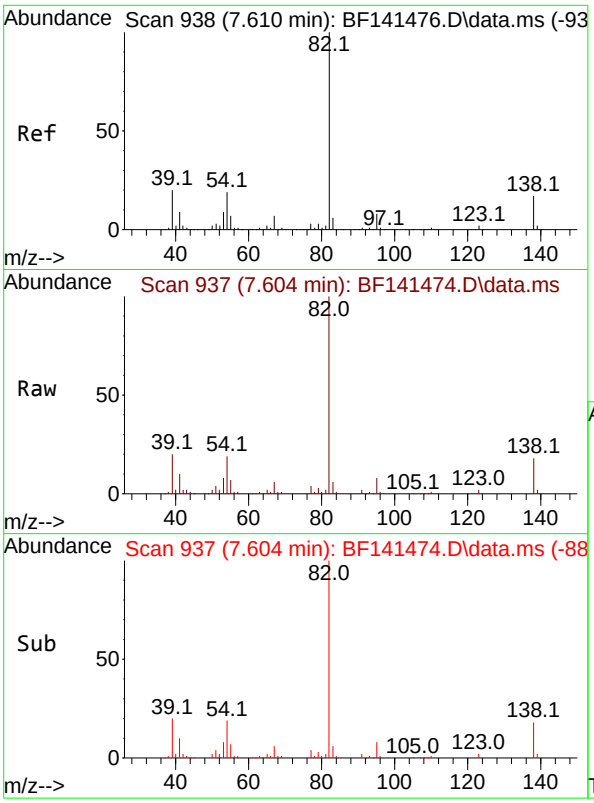


#24
Nitrobenzene
Concen: 9.927 ng
RT: 7.363 min Scan# 896
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 77 Resp: 67032

Ion	Ratio	Lower	Upper
77	100		
123	42.7	36.9	55.3
65	15.5	11.9	17.9



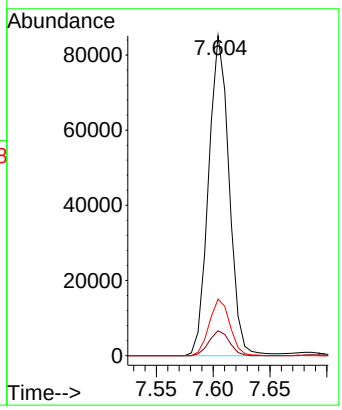


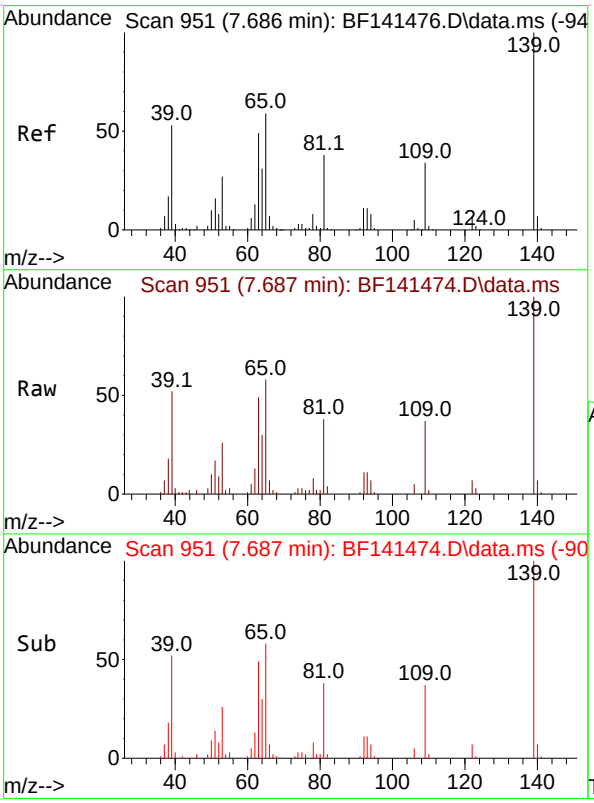
#25
Isophorone
Concen: 9.712 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 107242

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.7	13.9	20.9

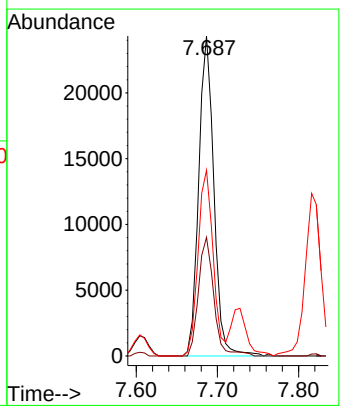


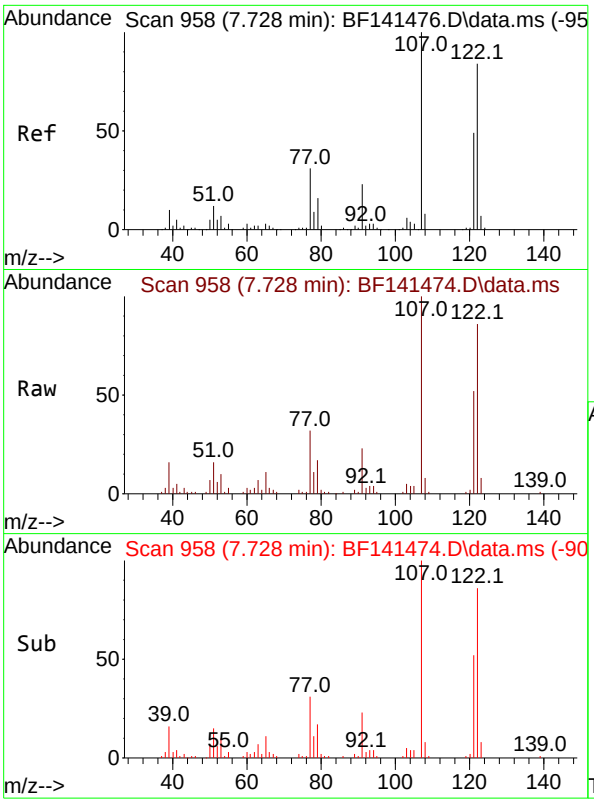


#26
2-Nitrophenol
Concen: 9.403 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 31590

Ion	Ratio	Lower	Upper
139	100		
109	37.1	27.0	40.6
65	58.1	47.1	70.7



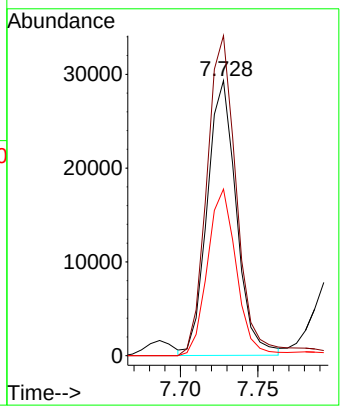


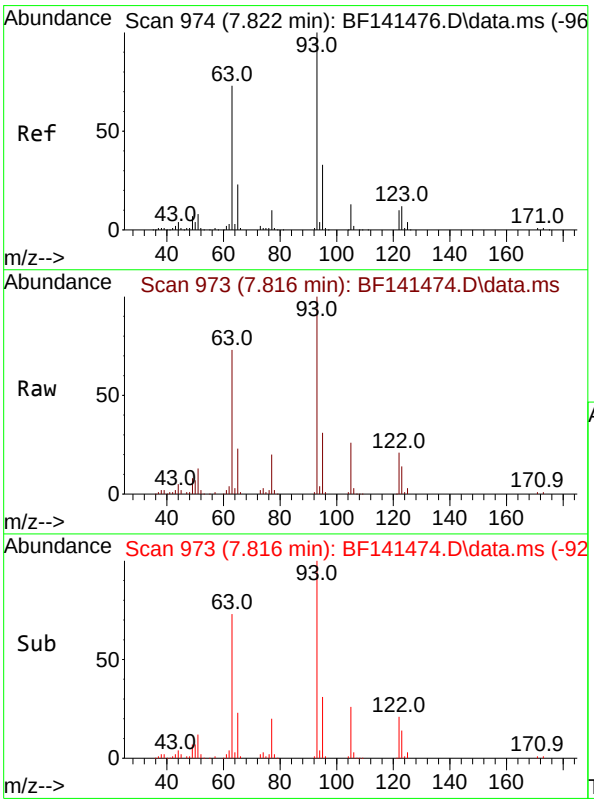
#27
2,4-Dimethylphenol
Concen: 9.759 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 38303

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

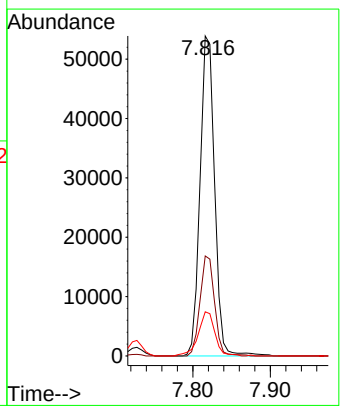


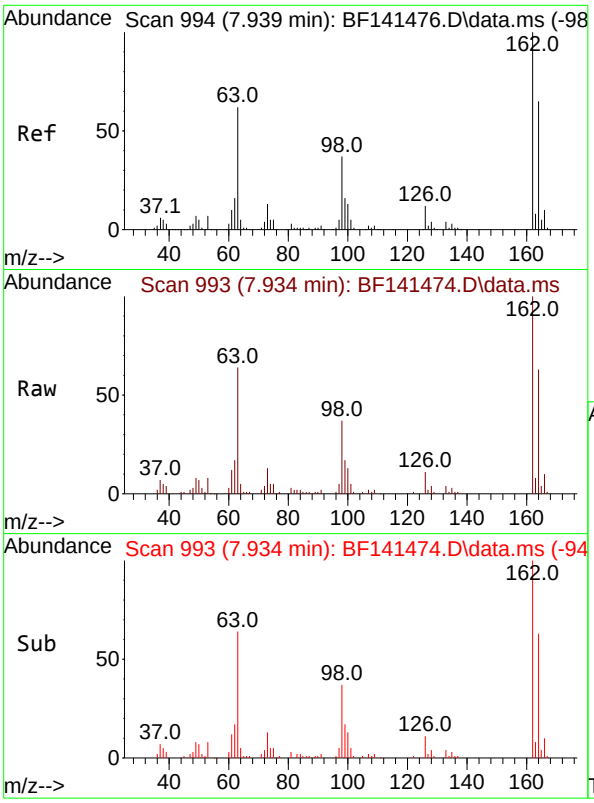


#28
bis(2-Chloroethoxy)methane
Concen: 9.958 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 93 Resp: 70458

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



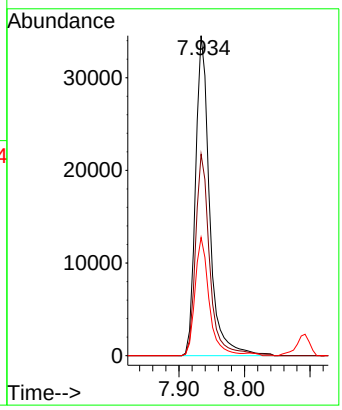


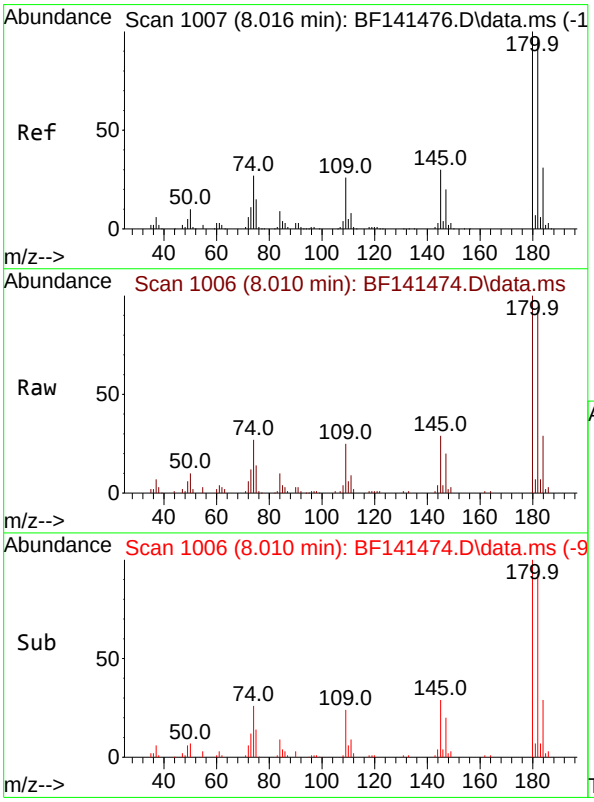
#29
2,4-Dichlorophenol
Concen: 9.784 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 51883

Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.6	84.6
98	36.9	17.2	57.2

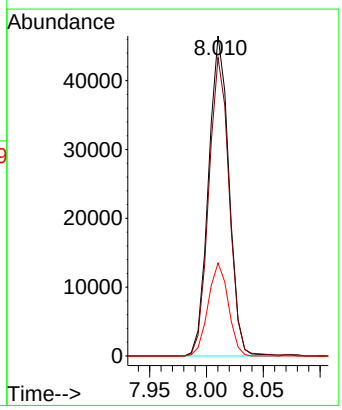


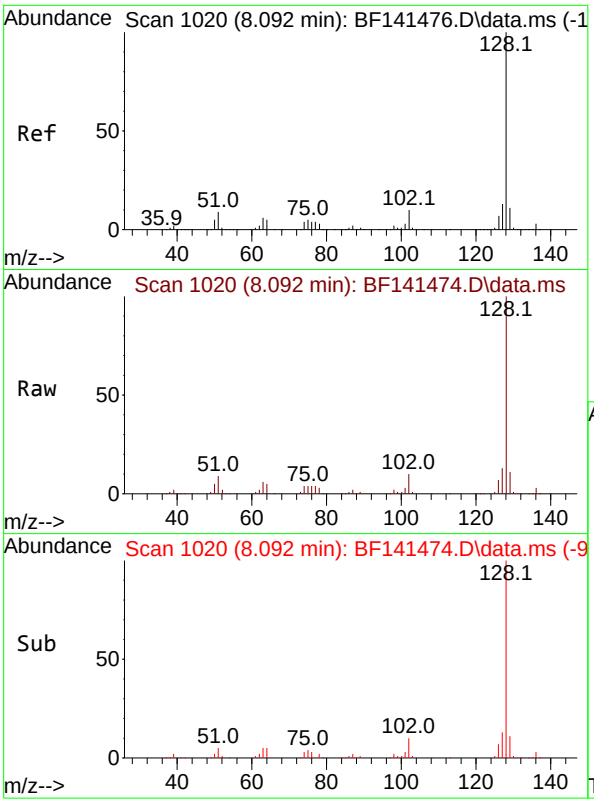


#30
1,2,4-Trichlorobenzene
Concen: 10.033 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:180 Resp: 57937

Ion	Ratio	Lower	Upper
180	100		
182	93.3	76.8	115.2
145	29.1	24.2	36.4



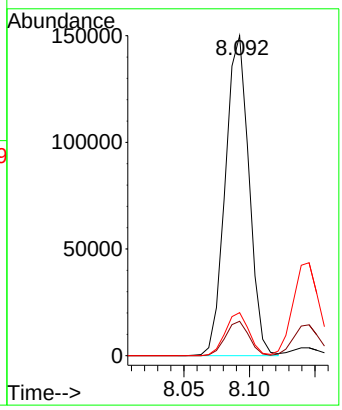


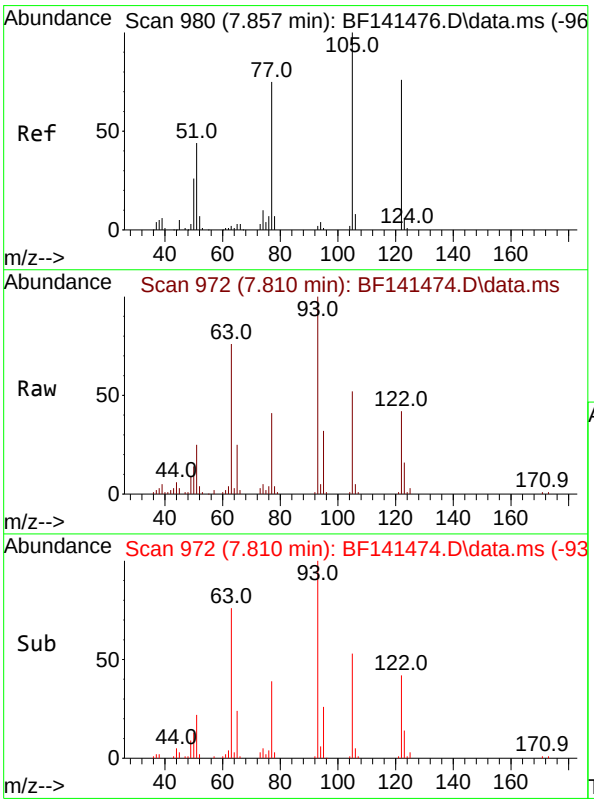
#31
Naphthalene
Concen: 10.002 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 188046

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	13.5	10.7	16.1

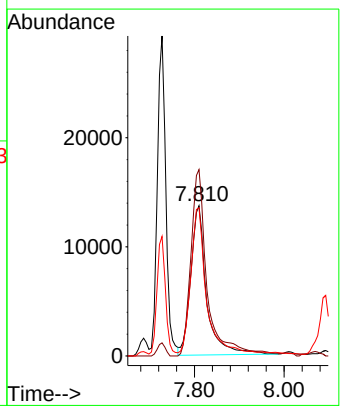


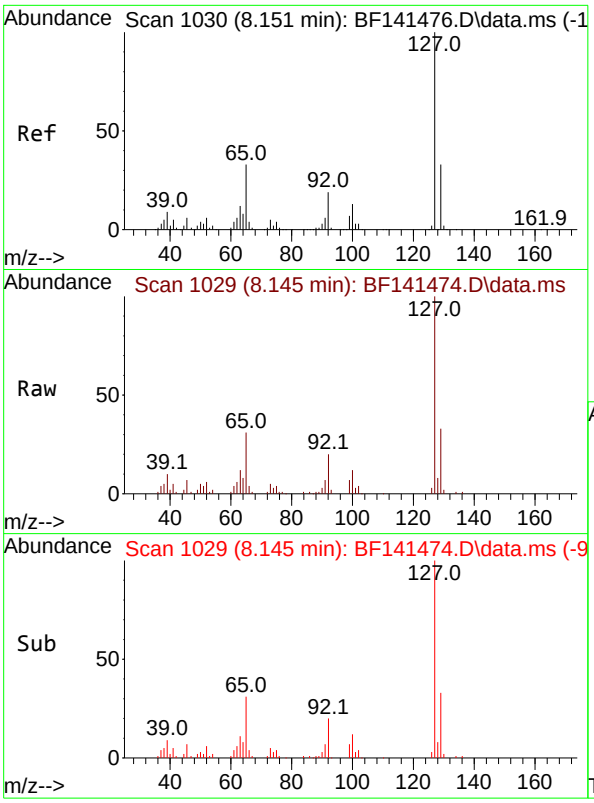


#32
Benzoic acid
Concen: 8.253 ng
RT: 7.810 min Scan# 972
Delta R.T. -0.082 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:122 Resp: 33645

Ion	Ratio	Lower	Upper
122	100		
105	124.1	106.5	146.5
77	98.6	76.3	116.3



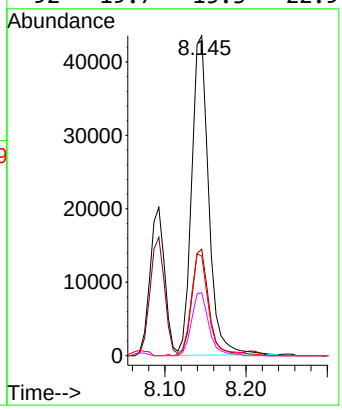


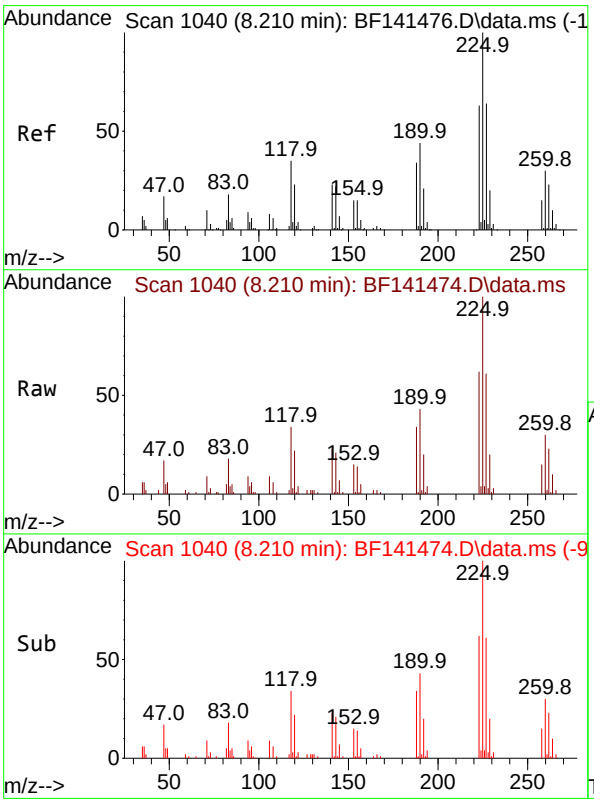
#33
4-Chloroaniline
Concen: 9.678 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 63529

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

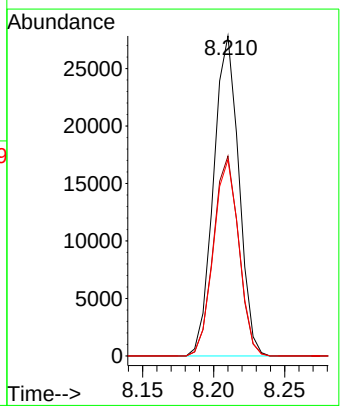


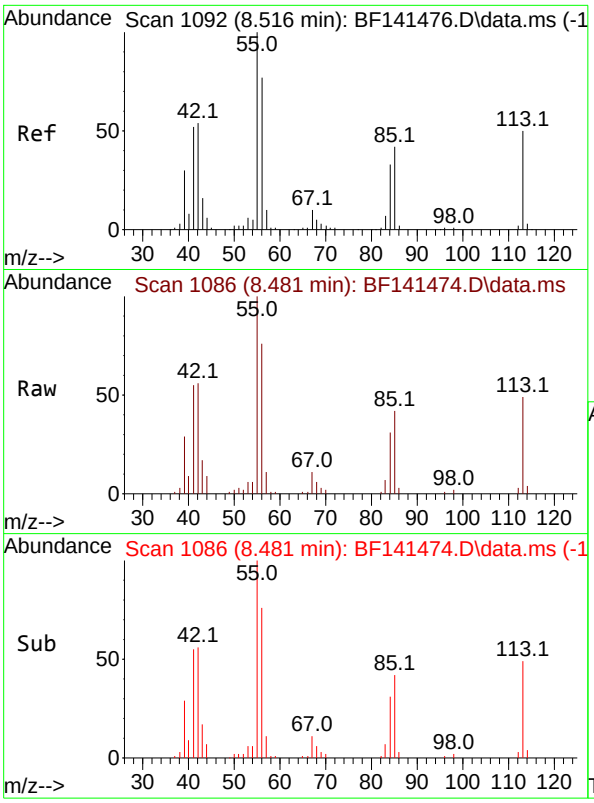


#34
Hexachlorobutadiene
Concen: 9.932 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:225 Resp: 34431

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.1	75.1
227	61.3	51.0	76.6



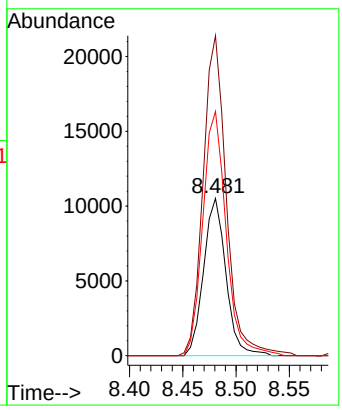


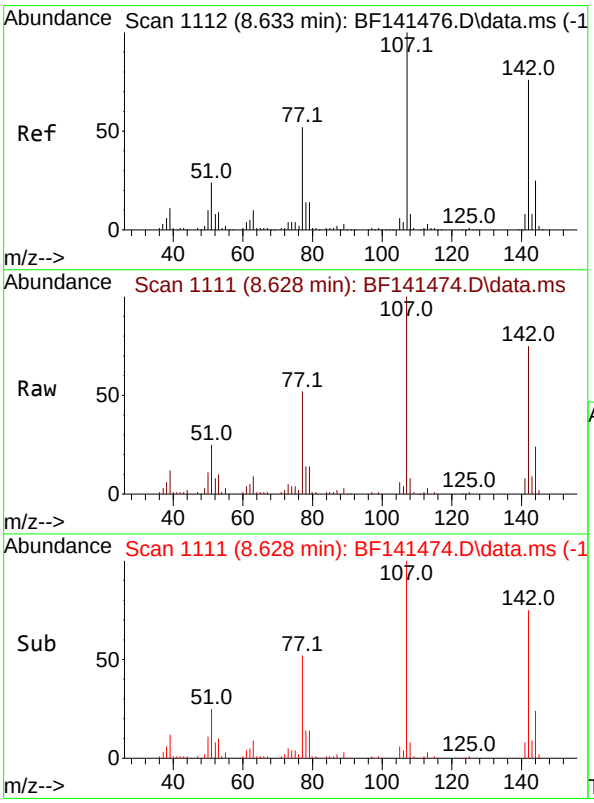
#35
Caprolactam
Concen: 9.495 ng
RT: 8.481 min Scan# 1
Delta R.T. -0.065 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 15331

Ion	Ratio	Lower	Upper
113	100		
55	203.4	180.8	220.8
56	155.4	133.6	173.6

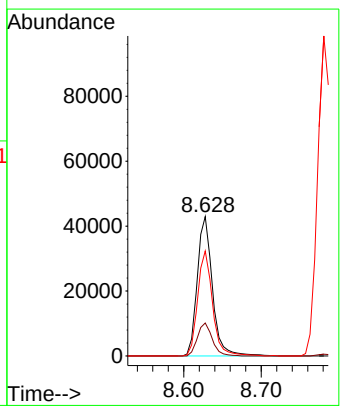


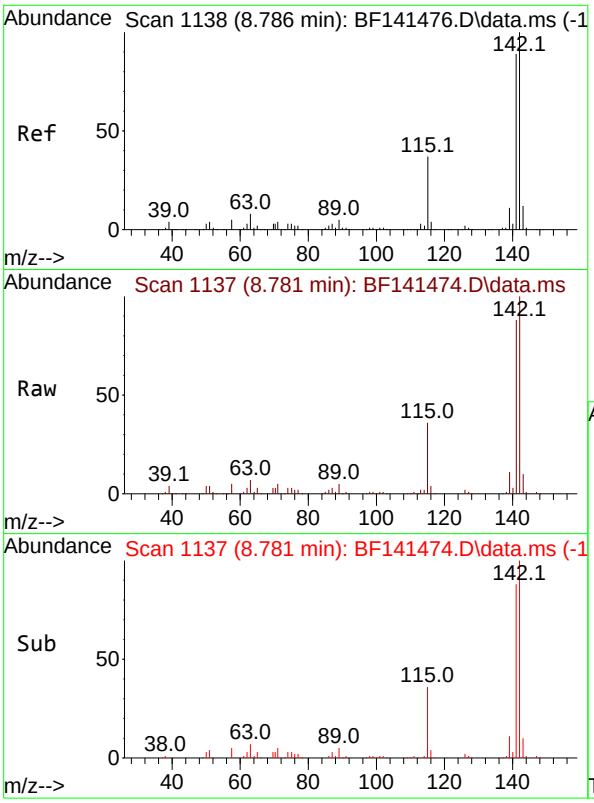


#36
4-Chloro-3-methylphenol
Concen: 9.949 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:107 Resp: 58441

Ion	Ratio	Lower	Upper
107	100		
144	23.7	19.7	29.5
142	75.3	60.8	91.2



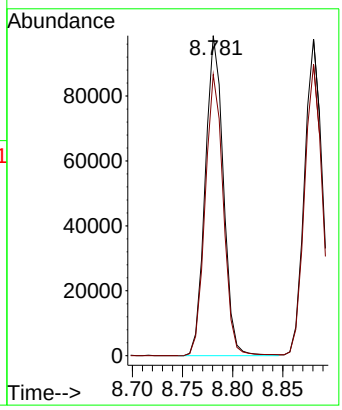


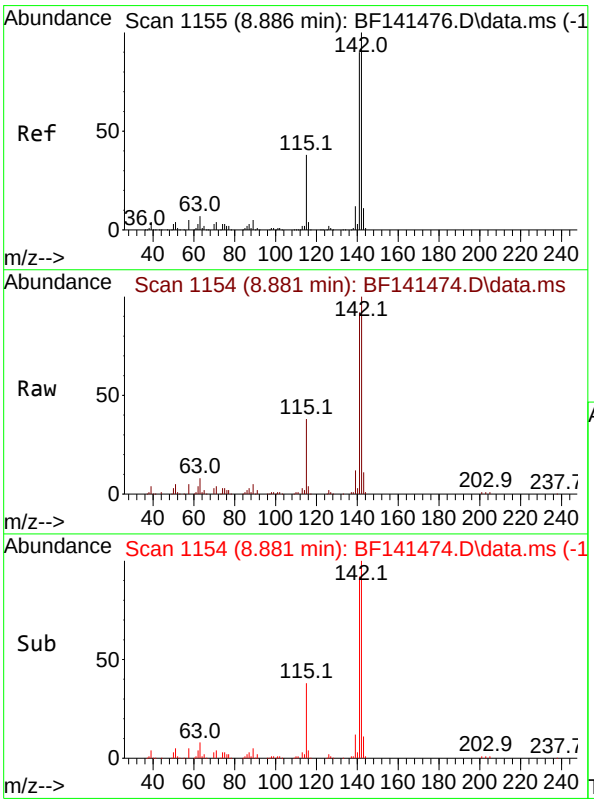
#37
2-Methylnaphthalene
Concen: 10.177 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 124517

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.2	106.8

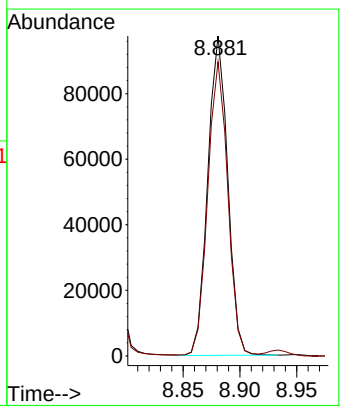


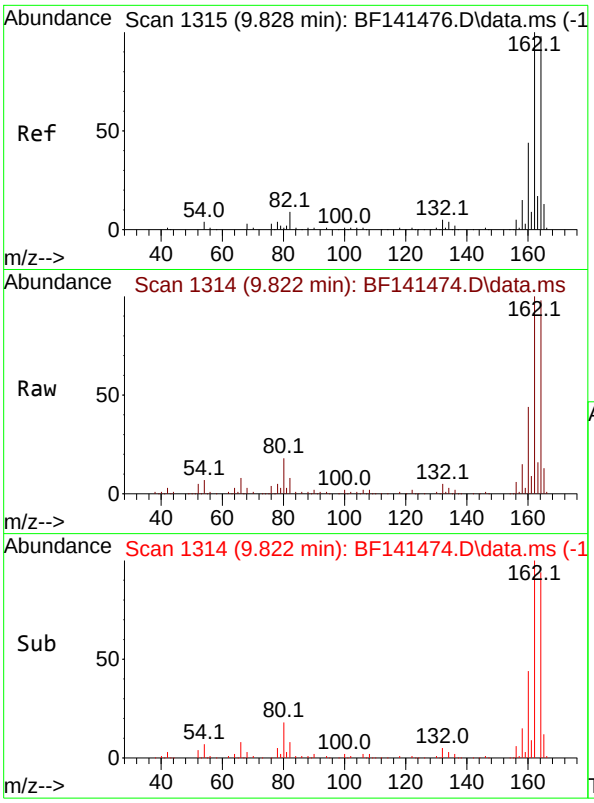


#38
1-Methylnaphthalene
Concen: 10.019 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:142 Resp: 118722

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.1	108.1



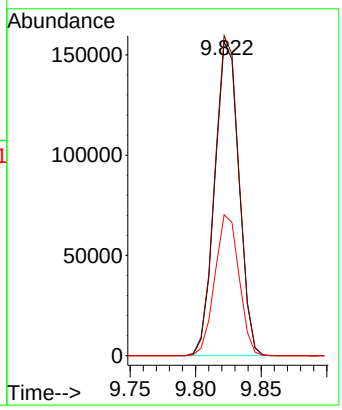


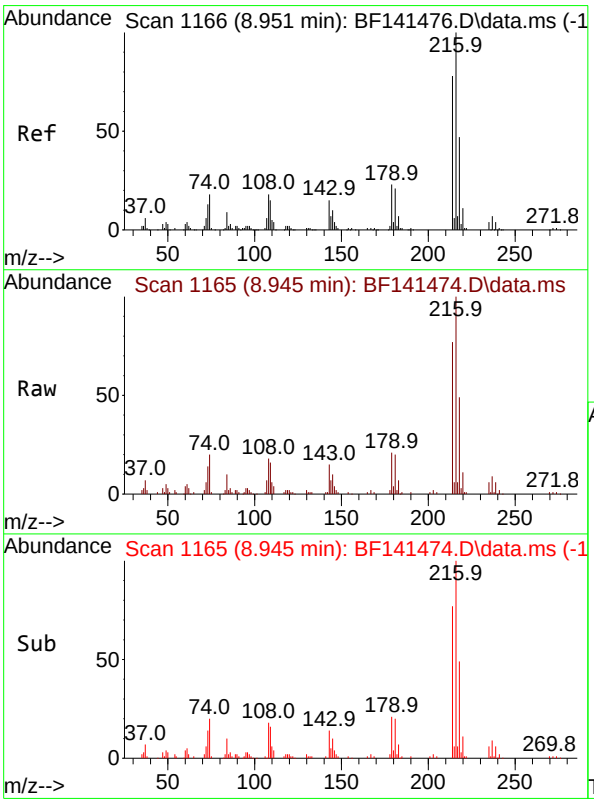
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 200046

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.3	121.9
160	44.9	35.9	53.9

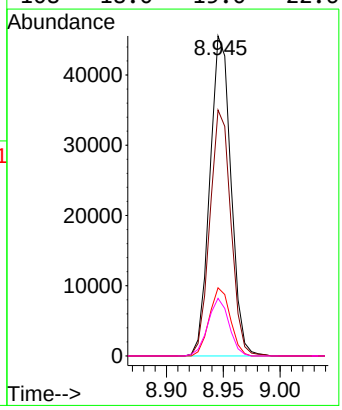


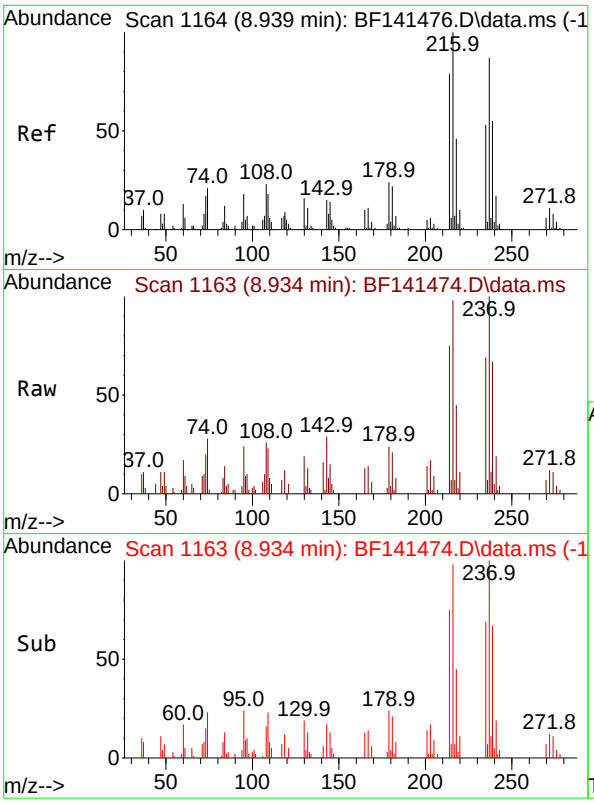


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.160 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:216 Resp: 58800

Ion	Ratio	Lower	Upper
216	100		
214	76.5	62.3	93.5
179	21.1	18.0	27.0
108	18.0	15.0	22.6



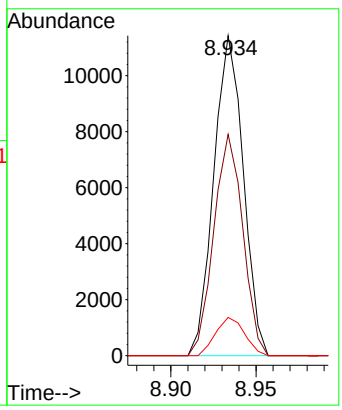


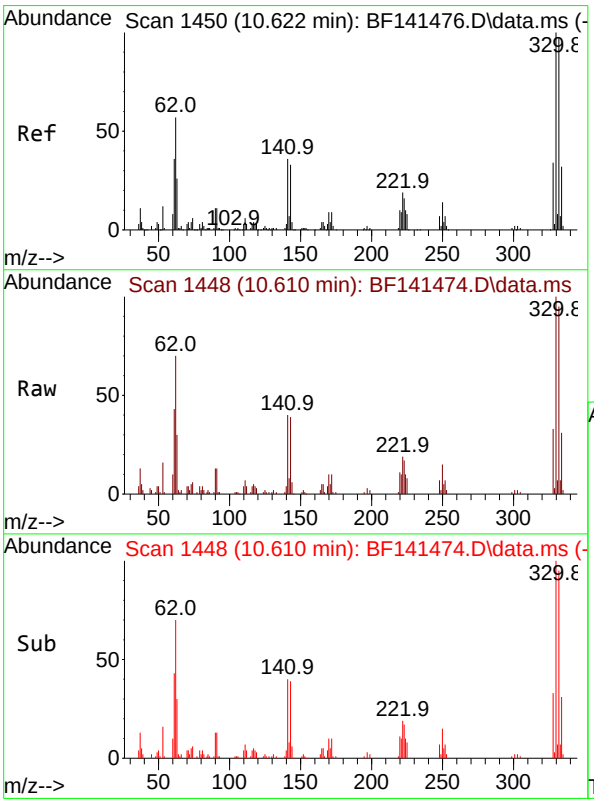
#41
Hexachlorocyclopentadiene
Concen: 7.161 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 13785

Ion	Ratio	Lower	Upper
237	100		
235	69.2	41.4	81.4
272	11.9	0.0	32.4

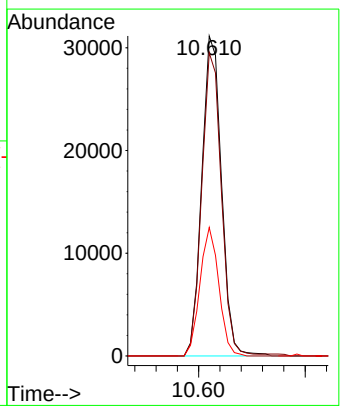


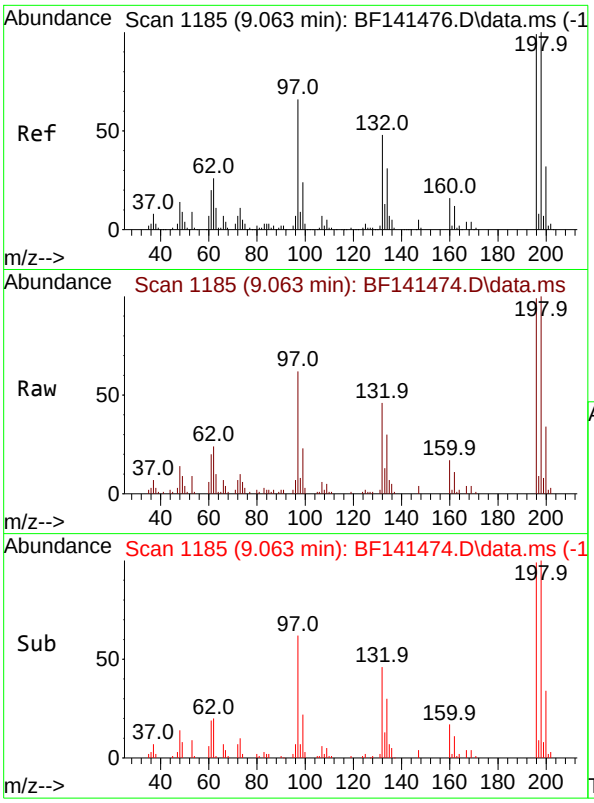


#42
2,4,6-Tribromophenol
Concen: 19.941 ng
RT: 10.610 min Scan# 1448
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:330 Resp: 40073

Ion	Ratio	Lower	Upper
330	100		
332	94.1	78.5	117.7
141	38.6	31.0	46.4



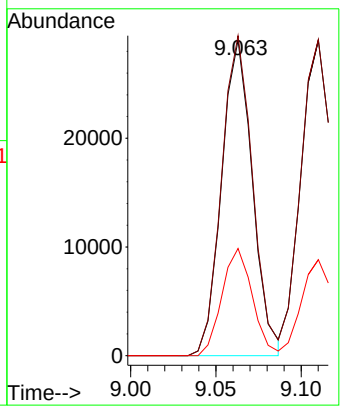


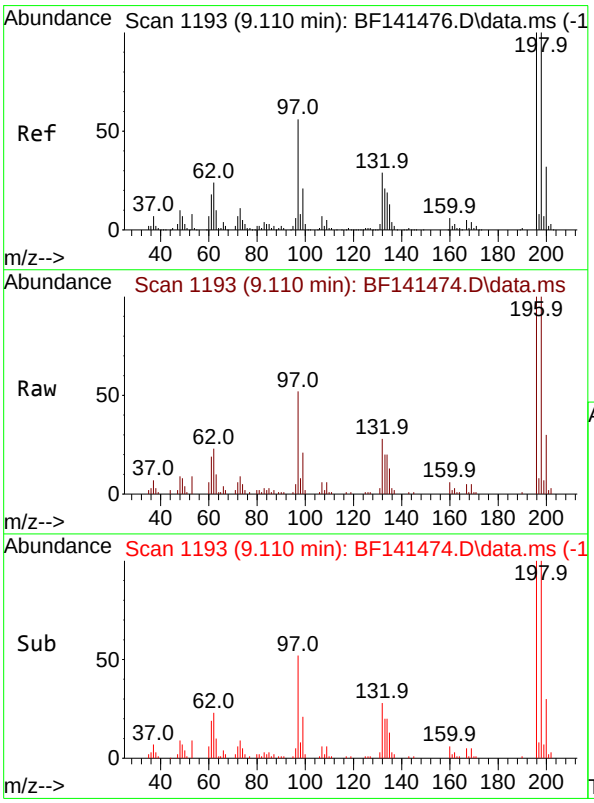
#43
2,4,6-Trichlorophenol
Concen: 9.773 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 36558

Ion	Ratio	Lower	Upper
196	100		
198	101.5	80.6	121.0
200	34.0	25.5	38.3

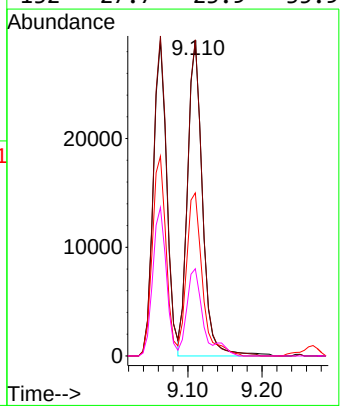


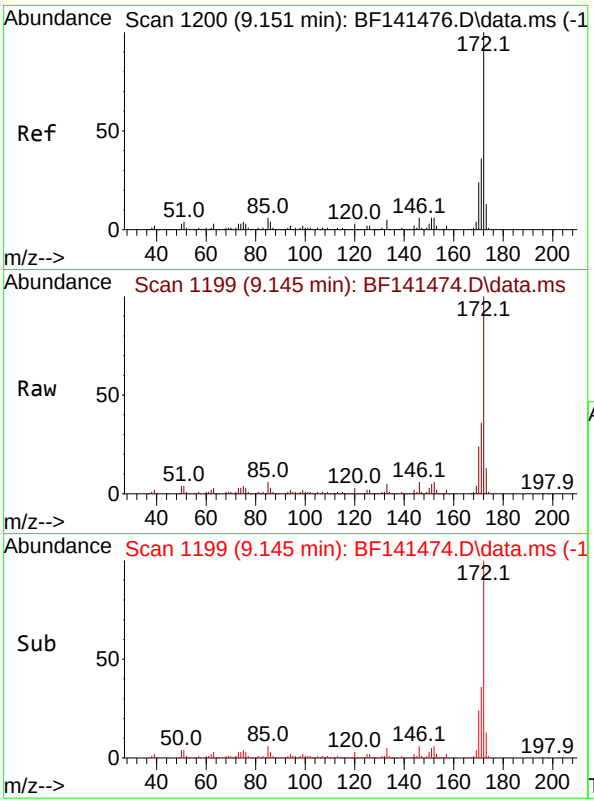


#44
2,4,5-Trichlorophenol
Concen: 10.039 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:196 Resp: 40697

Ion	Ratio	Lower	Upper
196	100		
198	100.3	79.8	119.8
97	51.7	44.8	67.2
132	27.7	23.9	35.9



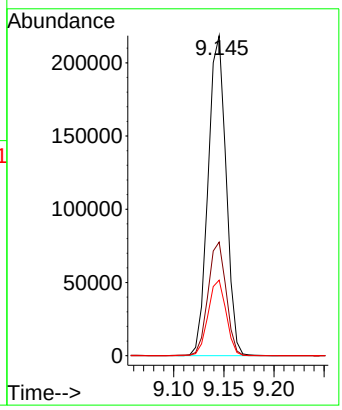


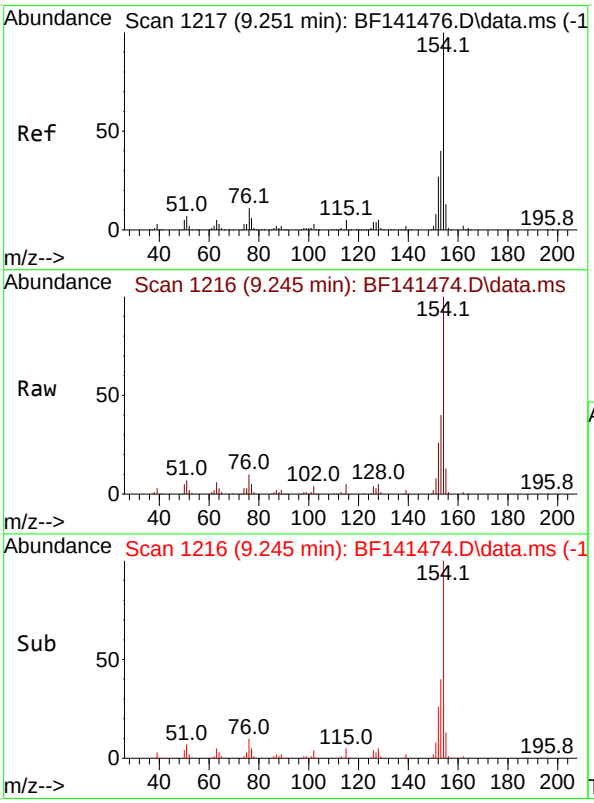
#45
2-Fluorobiphenyl
Concen: 20.947 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 271988

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.7	43.1
170	23.6	18.9	28.3

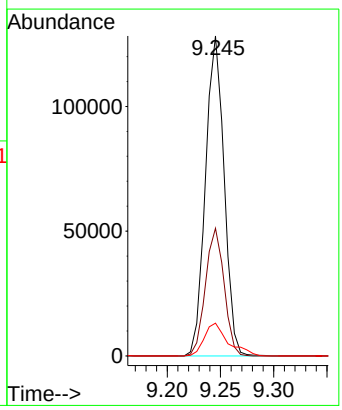


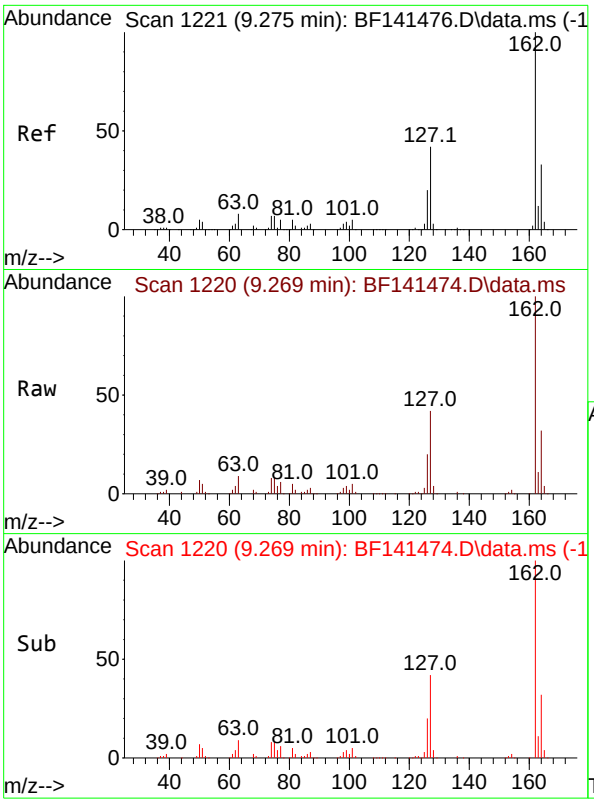


#46
1,1'-Biphenyl
Concen: 10.086 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:154 Resp: 156431

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.4	60.4
76	10.3	0.0	30.8



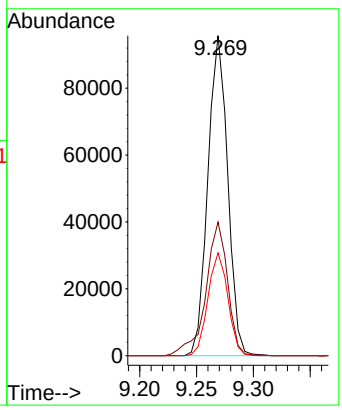


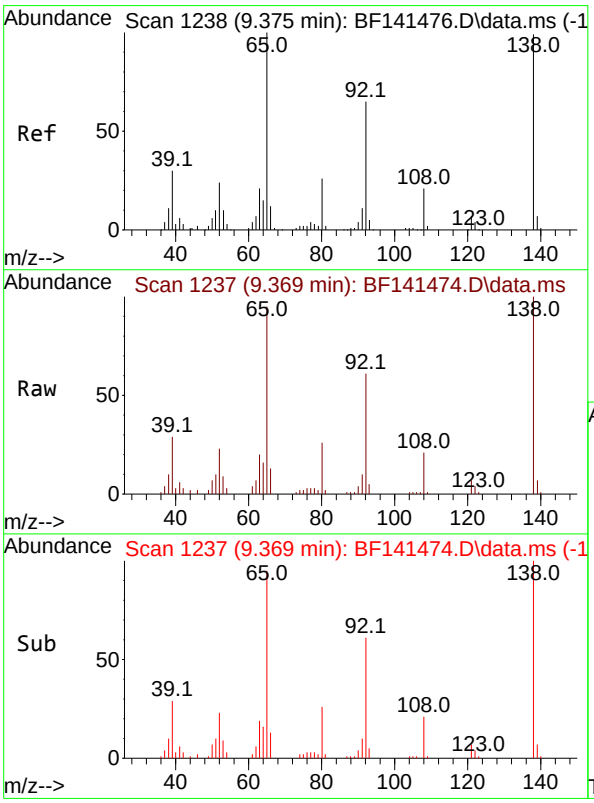
#47
2-Chloronaphthalene
Concen: 10.125 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 116119

Ion	Ratio	Lower	Upper
162	100		
127	41.8	34.1	51.1
164	32.1	26.3	39.5

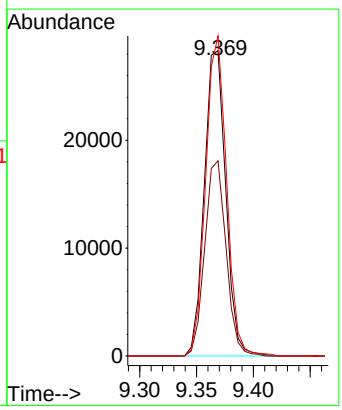


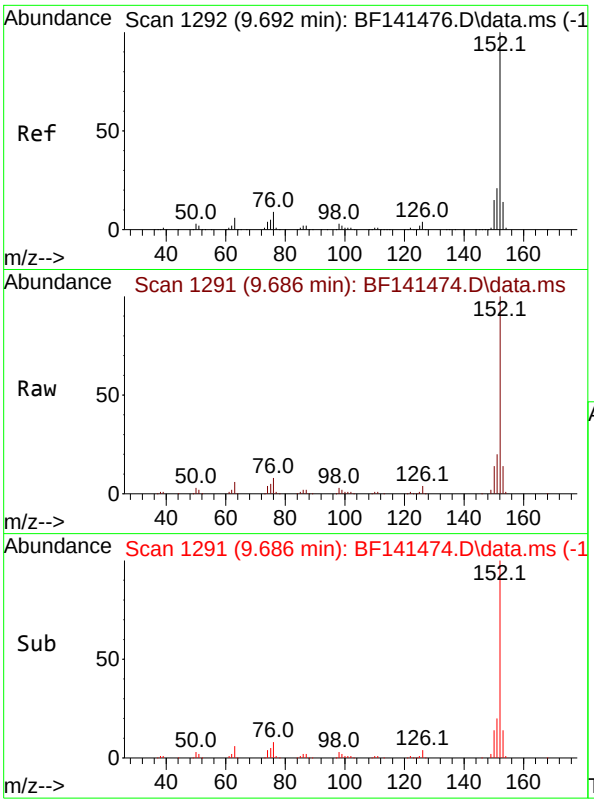


#48
2-Nitroaniline
Concen: 9.653 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion: 65 Resp: 37155

Ion	Ratio	Lower	Upper
65	100		
92	63.9	52.2	78.2
138	104.8	79.5	119.3



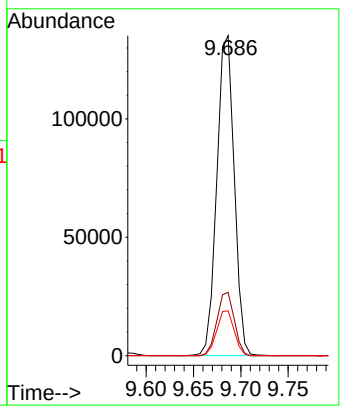


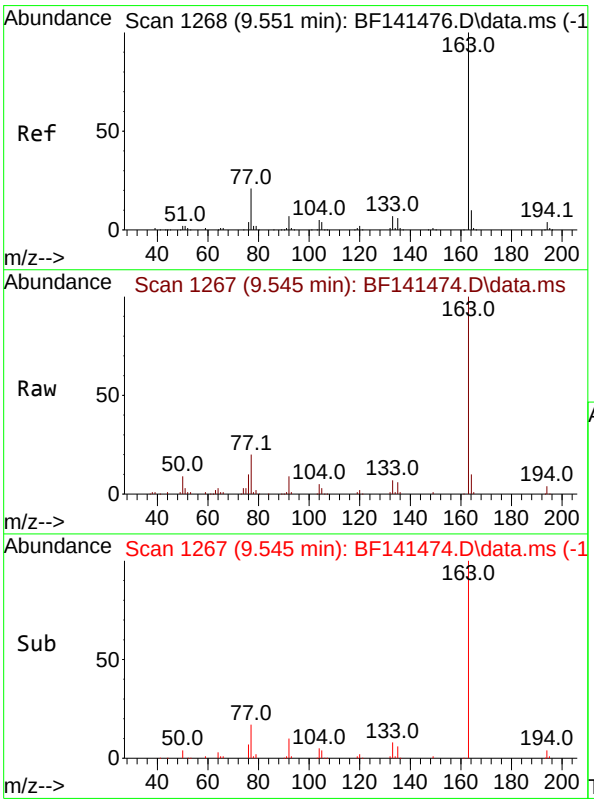
#49
Acenaphthylene
Concen: 10.179 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 173644

Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.4	24.6
153	14.1	10.9	16.3

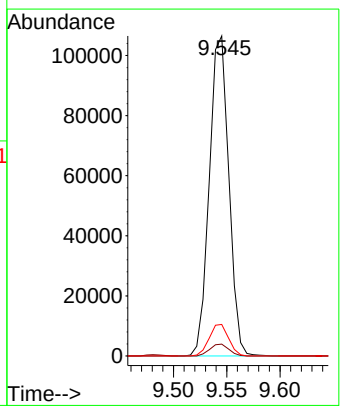


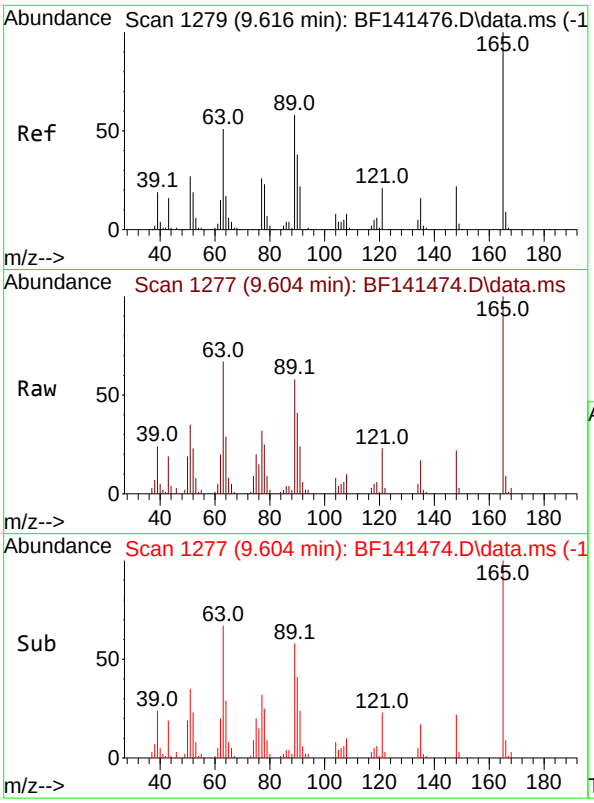


#50
Dimethylphthalate
Concen: 10.006 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:163 Resp: 135886

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	9.8	7.9	11.9



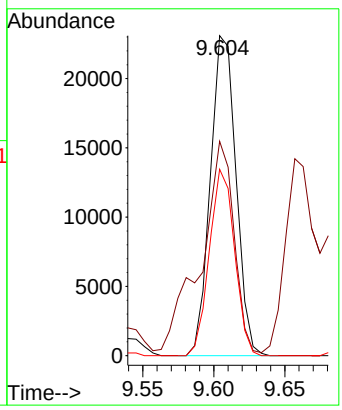


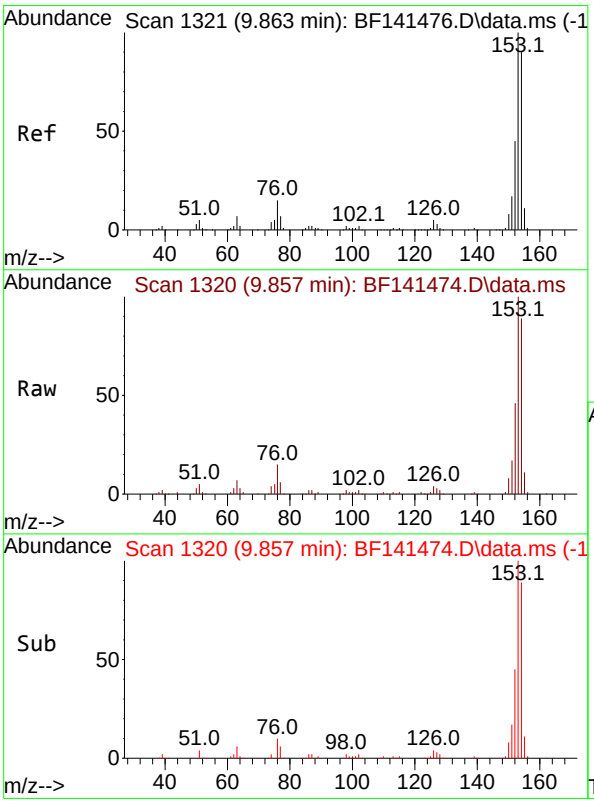
#51
2,6-Dinitrotoluene
Concen: 9.770 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 29006

Ion	Ratio	Lower	Upper
165	100		
63	67.0	49.4	74.0
89	58.2	46.5	69.7

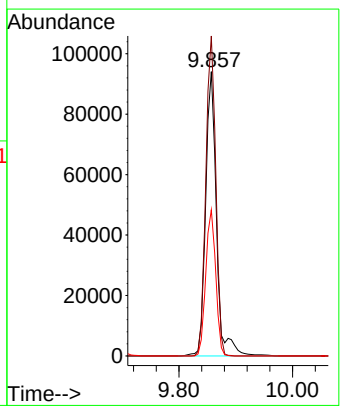


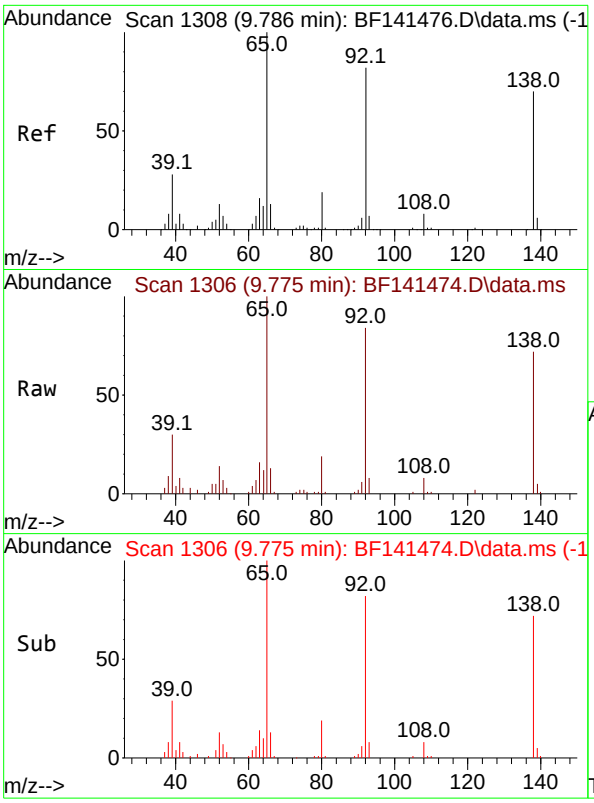


#52
Acenaphthene
Concen: 10.816 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:154 Resp: 124038

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	51.4	39.8	59.8



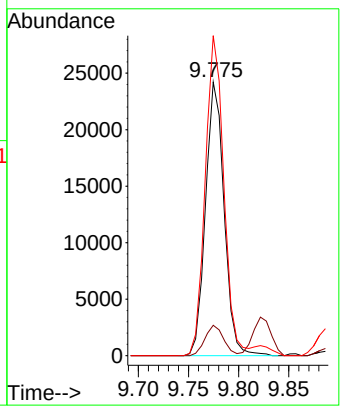


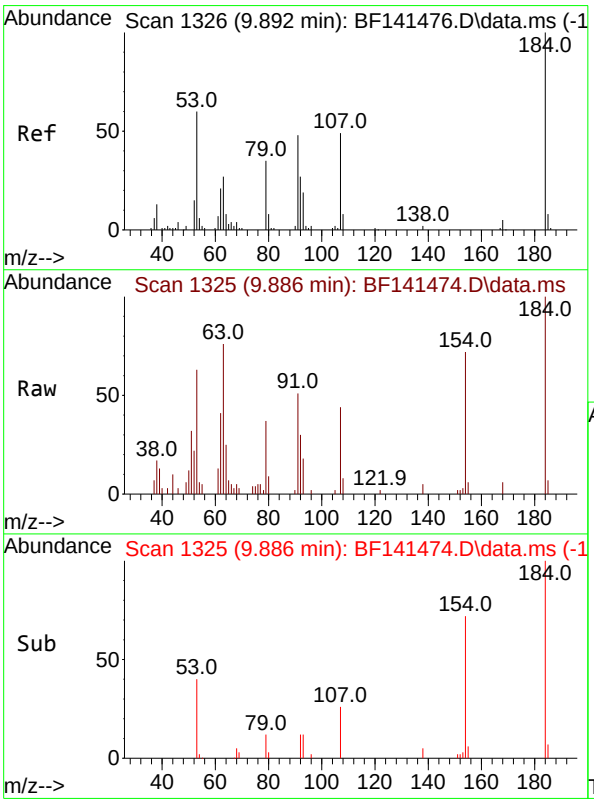
#53
3-Nitroaniline
Concen: 9.805 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 31330

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	116.9	93.7	140.5

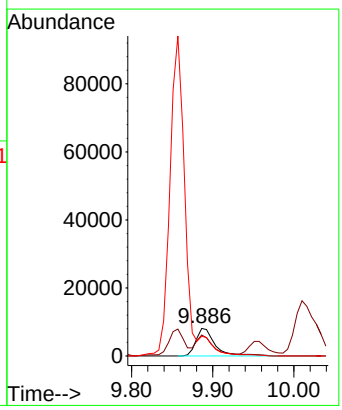


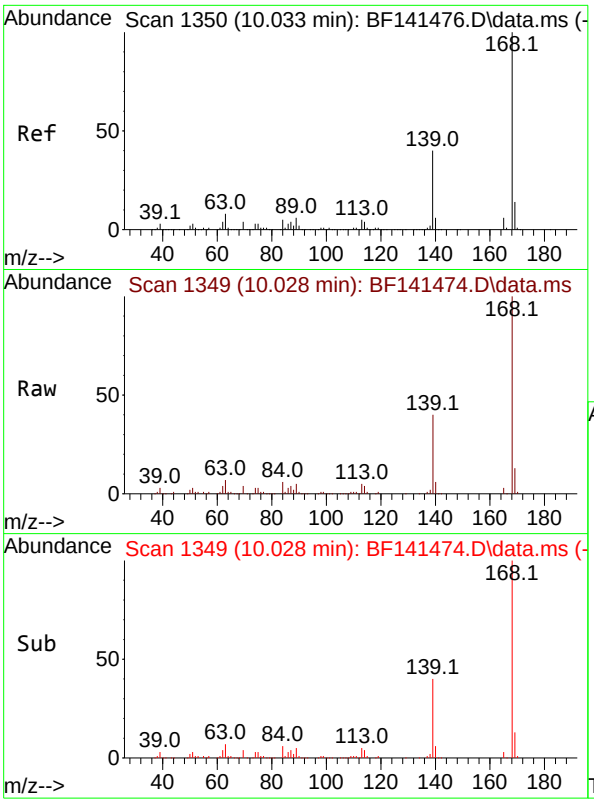


#54
2,4-Dinitrophenol
Concen: 7.561 ng
RT: 9.886 min Scan# 1325
Delta R.T. -0.018 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:184 Resp: 13341

Ion	Ratio	Lower	Upper
184	100		
63	75.9	61.0	91.6
154	71.6	59.9	89.9



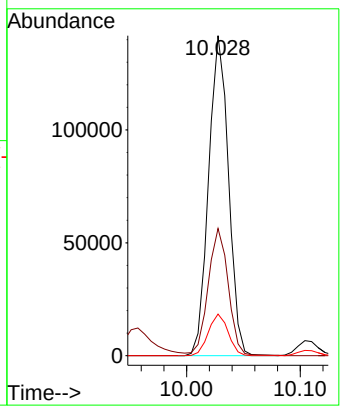


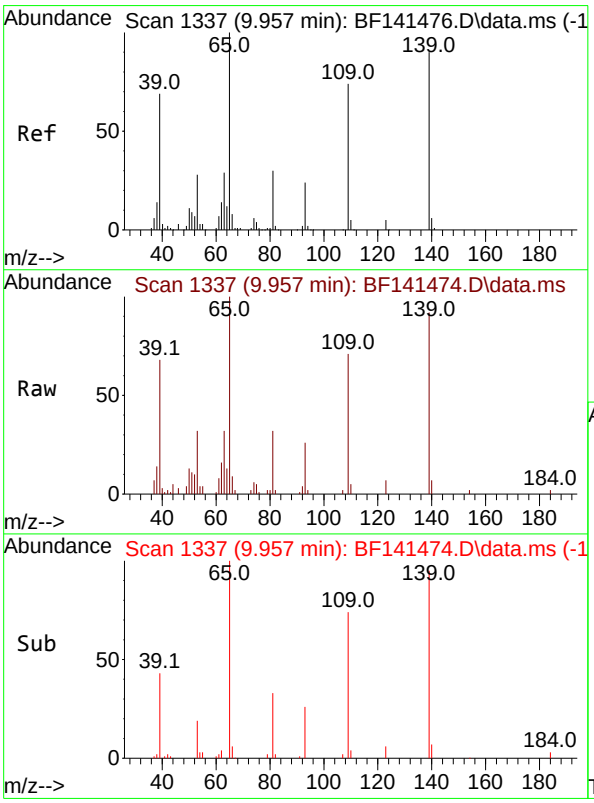
#55
Dibenzofuran
Concen: 10.230 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 172206

Ion	Ratio	Lower	Upper
168	100		
139	39.8	32.7	49.1
169	13.0	10.8	16.2

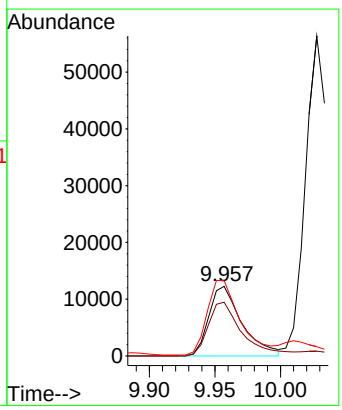


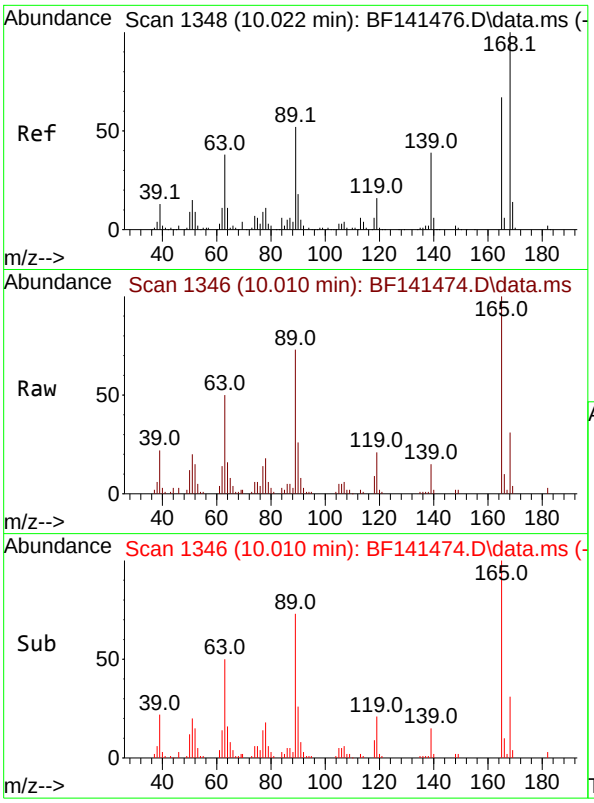


#56
4-Nitrophenol
Concen: 9.093 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:139 Resp: 21569

Ion	Ratio	Lower	Upper
139	100		
109	77.2	62.0	102.0
65	108.2	91.2	131.2



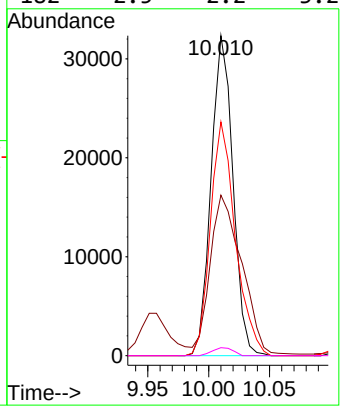


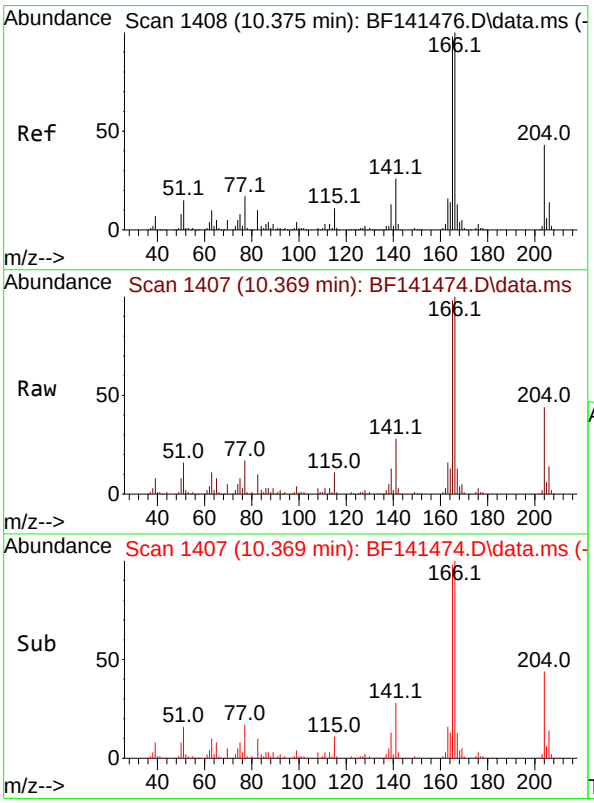
#57
2,4-Dinitrotoluene
Concen: 10.198 ng
RT: 10.010 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 40306

Ion	Ratio	Lower	Upper
165	100		
63	50.1	46.4	69.6
89	73.1	61.8	92.6
182	2.5	2.2	3.2

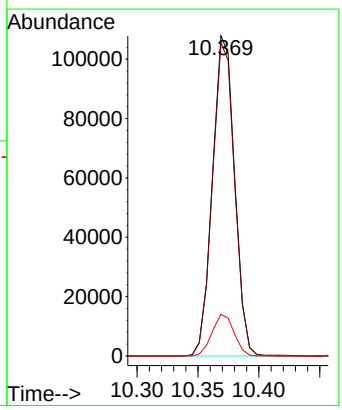


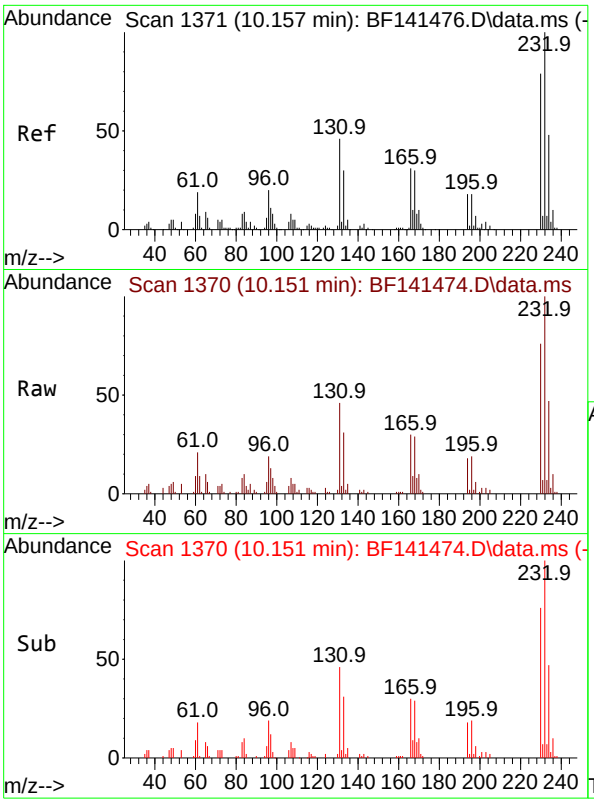


#58
Fluorene
Concen: 10.458 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:166 Resp: 136110

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.2	117.2
167	13.0	10.7	16.1



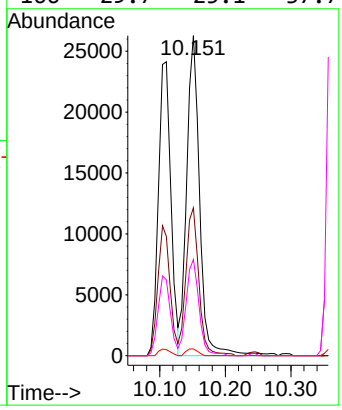


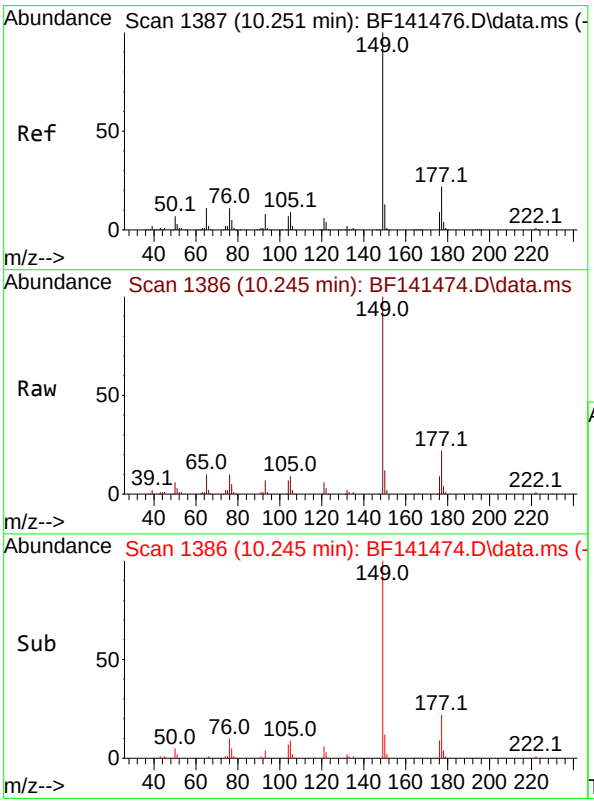
#59
2,3,4,6-Tetrachlorophenol
Concen: 10.344 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 36102

Ion	Ratio	Lower	Upper
232	100		
131	45.8	39.2	58.8
130	1.9	2.1	3.1#
166	29.7	25.1	37.7

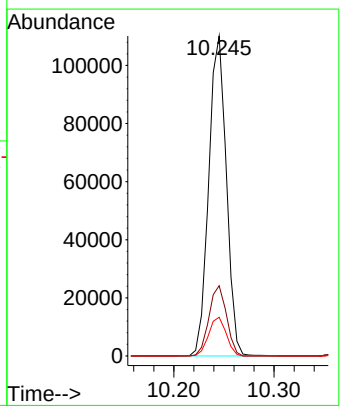


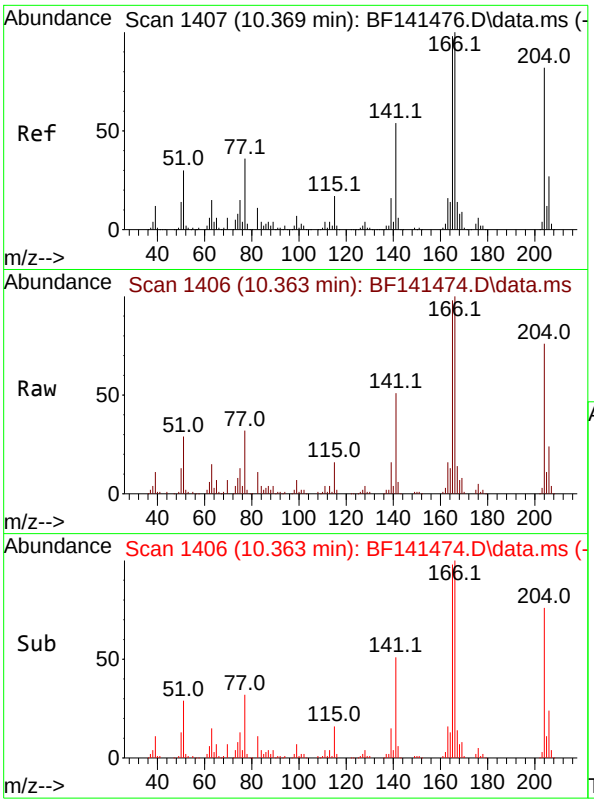


#60
Diethylphthalate
Concen: 10.073 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 134593

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.8	26.6
150	12.1	10.1	15.1



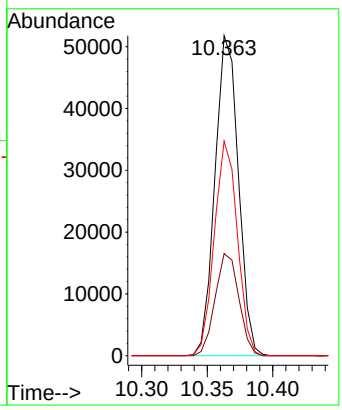


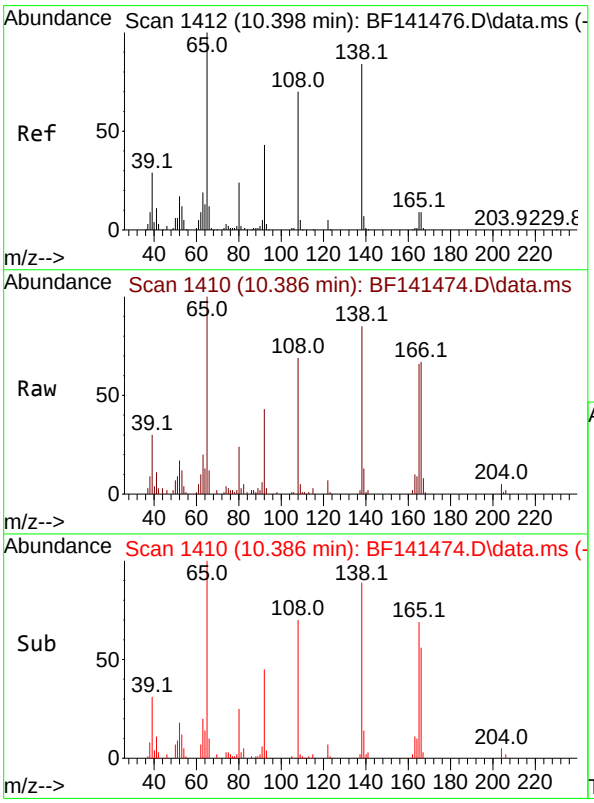
#61
4-Chlorophenyl-phenylether
Concen: 10.270 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 64305

Ion	Ratio	Lower	Upper
204	100		
206	31.9	26.6	40.0
141	67.1	51.9	77.9

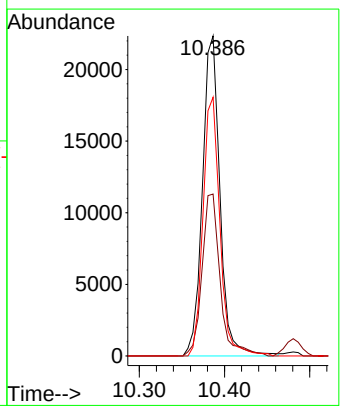


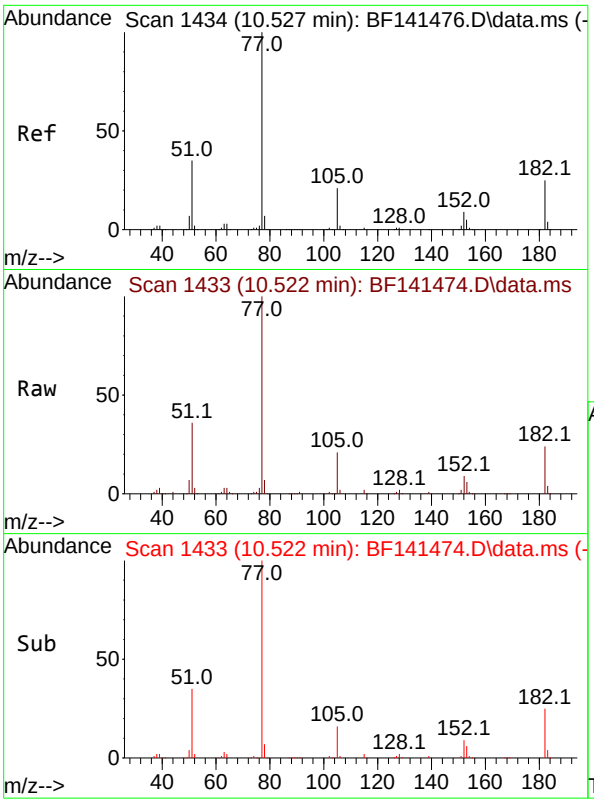


#62
4-Nitroaniline
Concen: 9.842 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:138 Resp: 31934

Ion	Ratio	Lower	Upper
138	100		
92	50.6	31.3	71.3
108	80.8	63.7	103.7



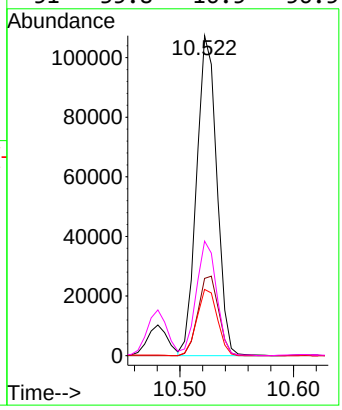


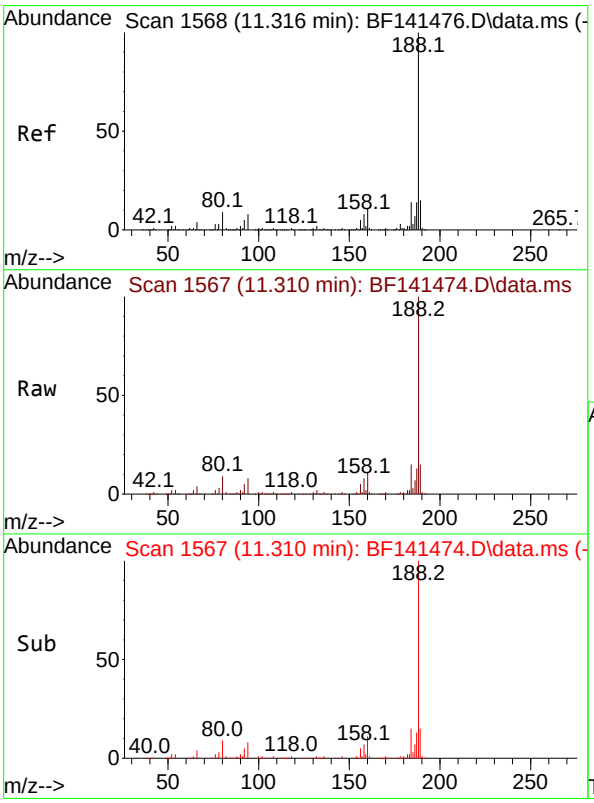
#63
Azobenzene
Concen: 10.010 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 132968

Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.7	44.7
105	20.7	0.4	40.4
51	35.8	16.5	56.5

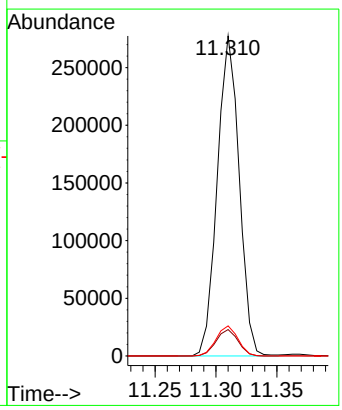


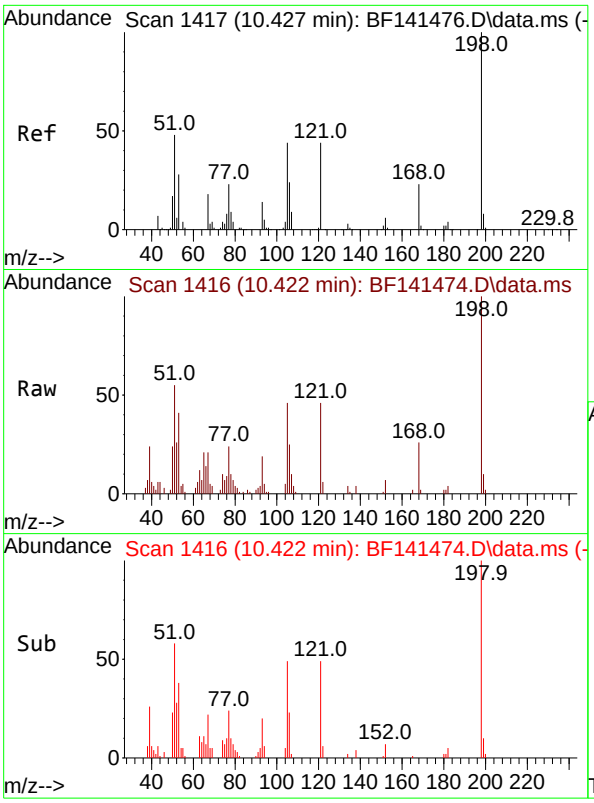


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:188 Resp: 347312

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.4	7.3	10.9



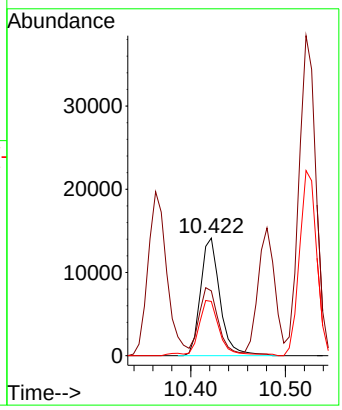


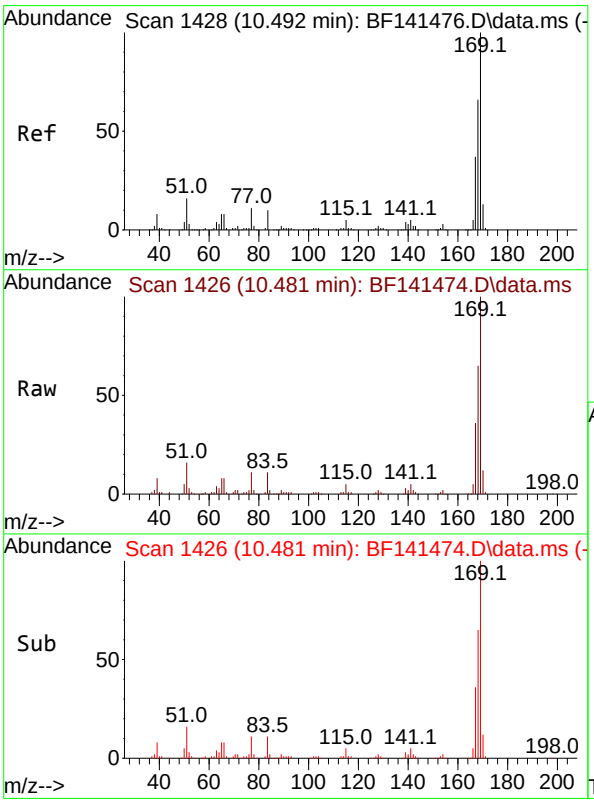
#65
4,6-Dinitro-2-methylphenol
Concen: 8.320 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 20074

Ion	Ratio	Lower	Upper
198	100		
51	55.2	37.4	77.4
105	46.2	25.2	65.2

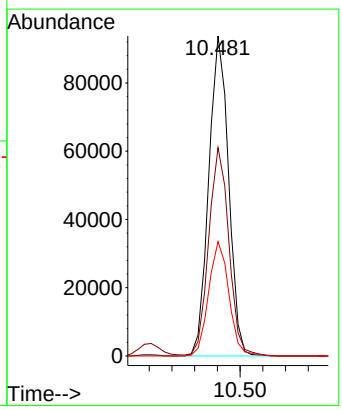


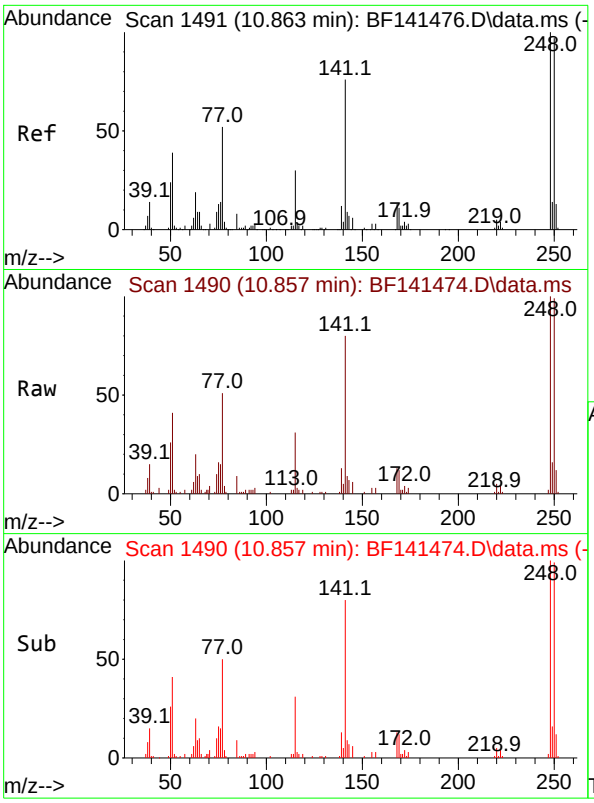


#66
n-Nitrosodiphenylamine
Concen: 10.201 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.017 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:169 Resp: 113408

Ion	Ratio	Lower	Upper
169	100		
168	65.1	53.3	79.9
167	35.7	29.4	44.2



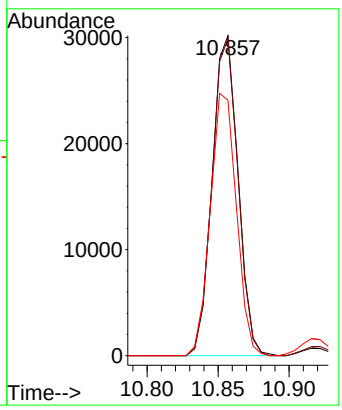


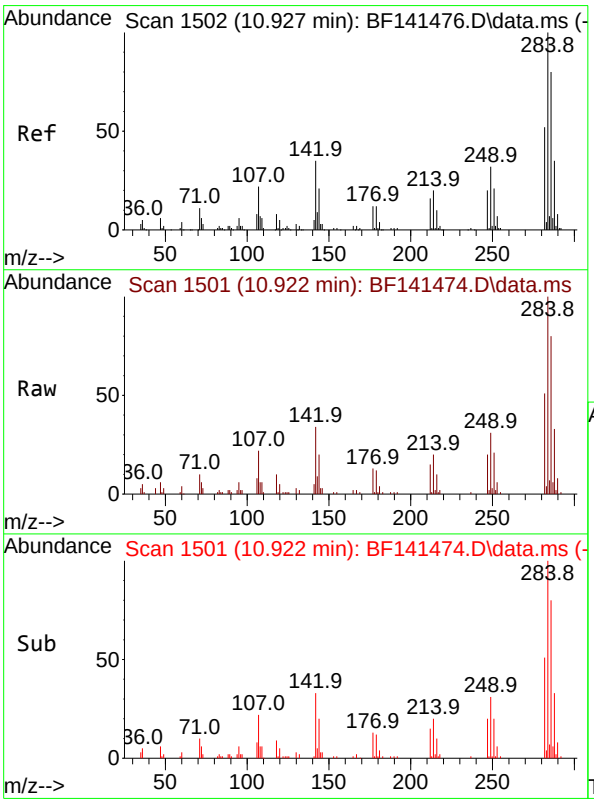
#67
4-Bromophenyl-phenylether
Concen: 9.856 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 38257

Ion	Ratio	Lower	Upper
248	100		
250	99.1	77.8	116.6
141	79.8	60.6	90.8

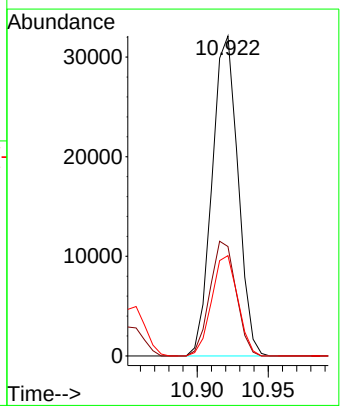


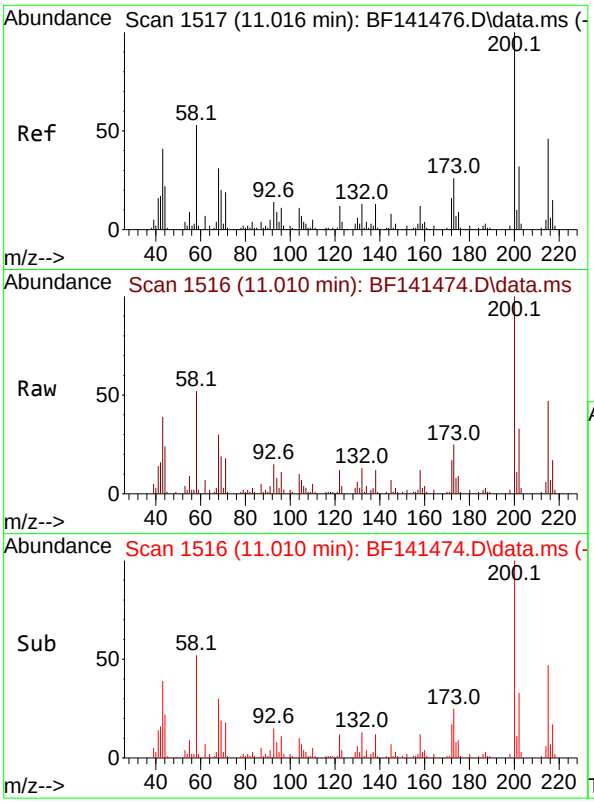


#68
Hexachlorobenzene
Concen: 10.186 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:284 Resp: 40715

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	31.3	25.8	38.8



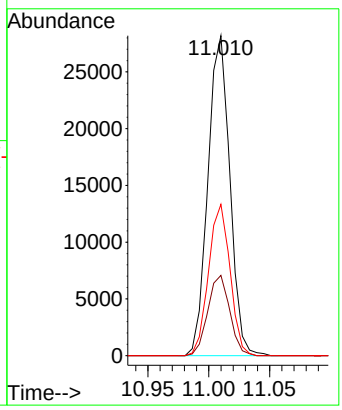


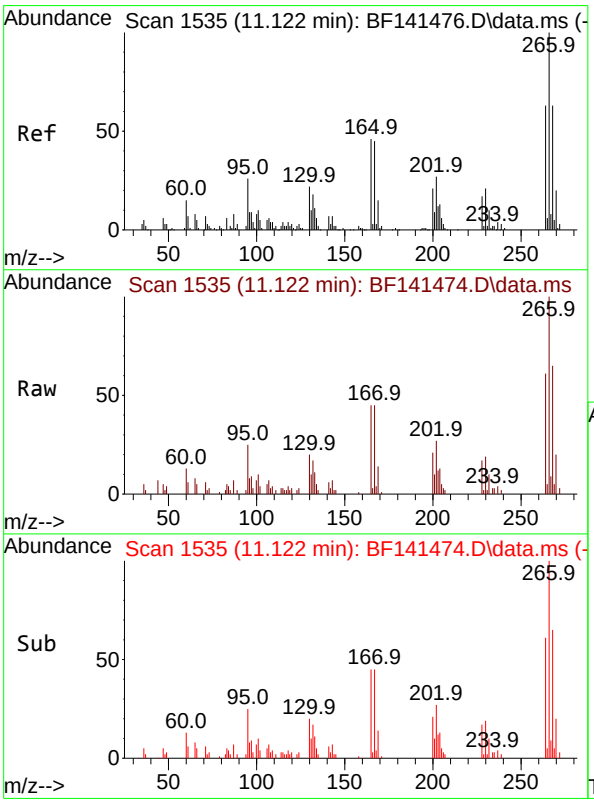
#69
Atrazine
Concen: 10.580 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 35287

Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.9	45.9
215	47.3	25.9	65.9

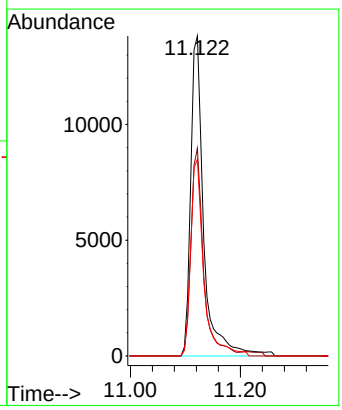


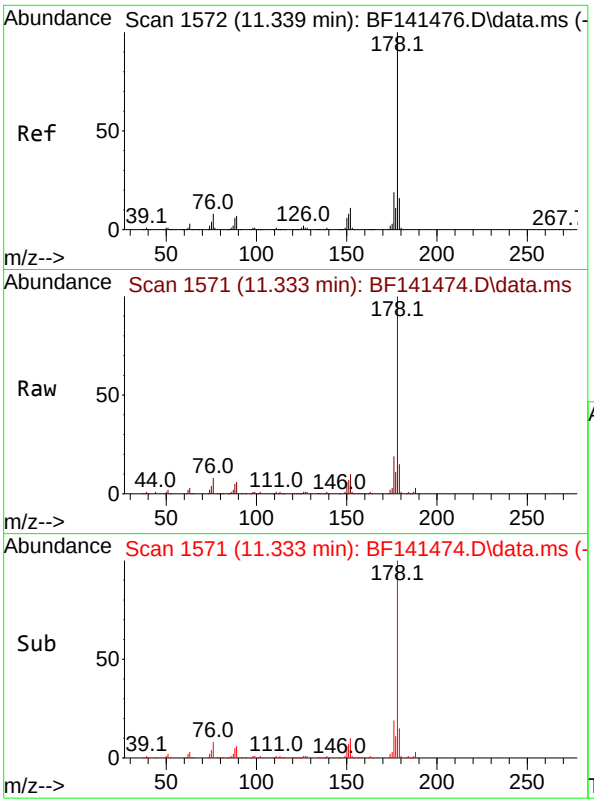


#70
Pentachlorophenol
Concen: 8.895 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:266 Resp: 22735

Ion	Ratio	Lower	Upper
266	100		
268	64.9	50.1	75.1
264	61.5	50.1	75.1



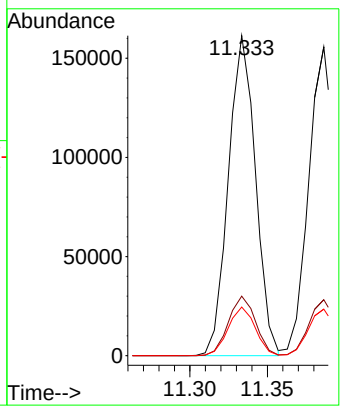


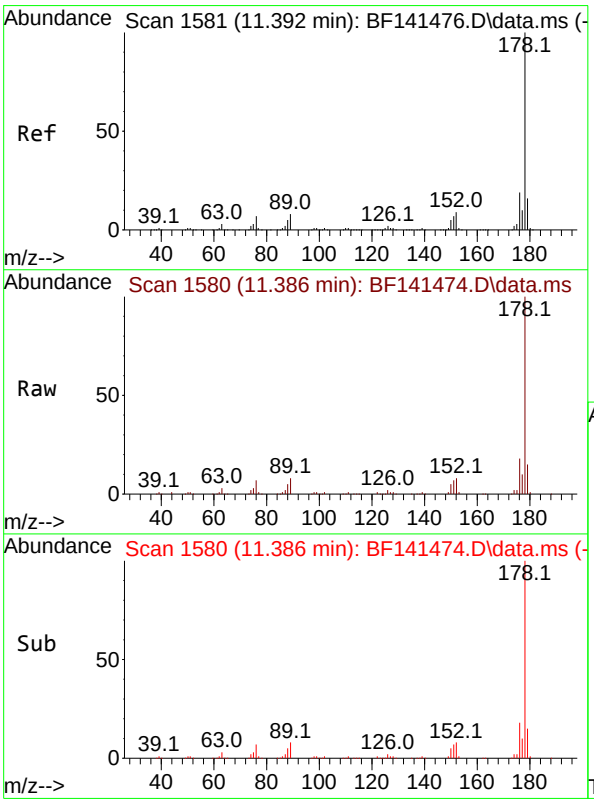
#71
Phenanthrene
Concen: 10.283 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 196586

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	15.2	12.4	18.6

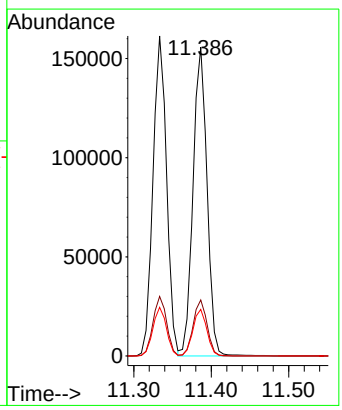


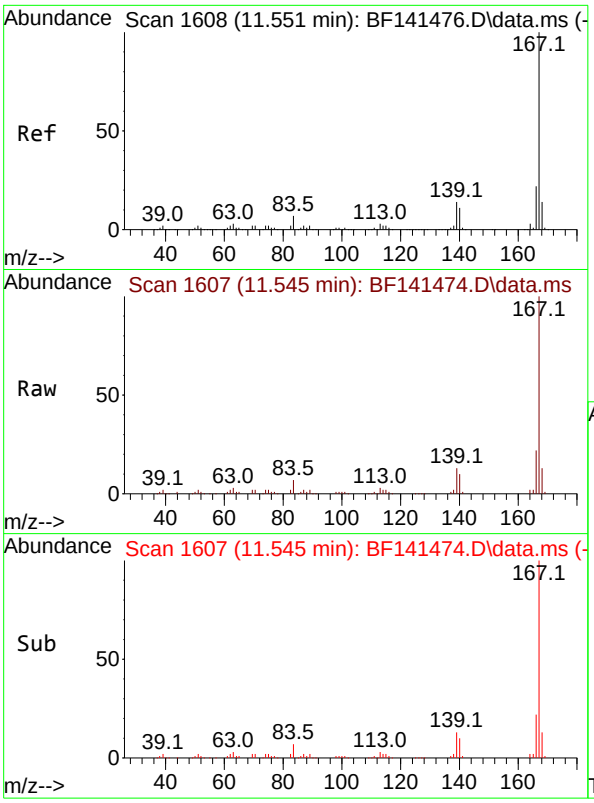


#72
Anthracene
Concen: 10.174 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:178 Resp: 195528

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.8	22.2
179	15.1	12.4	18.6



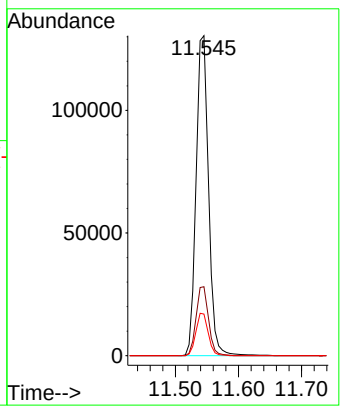


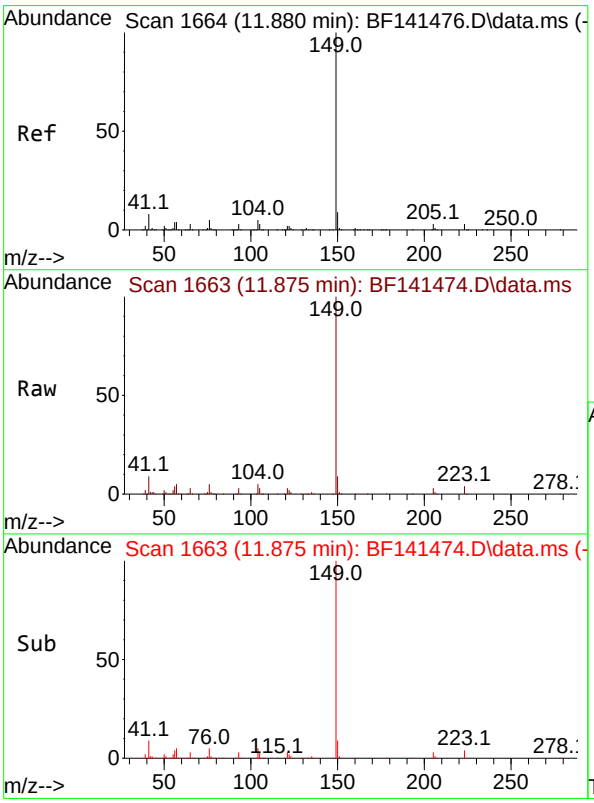
#73
Carbazole
Concen: 10.306 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 178223

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.0	10.9	16.3

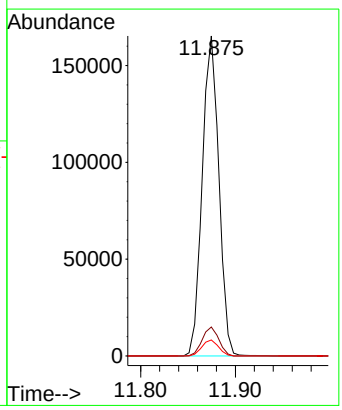


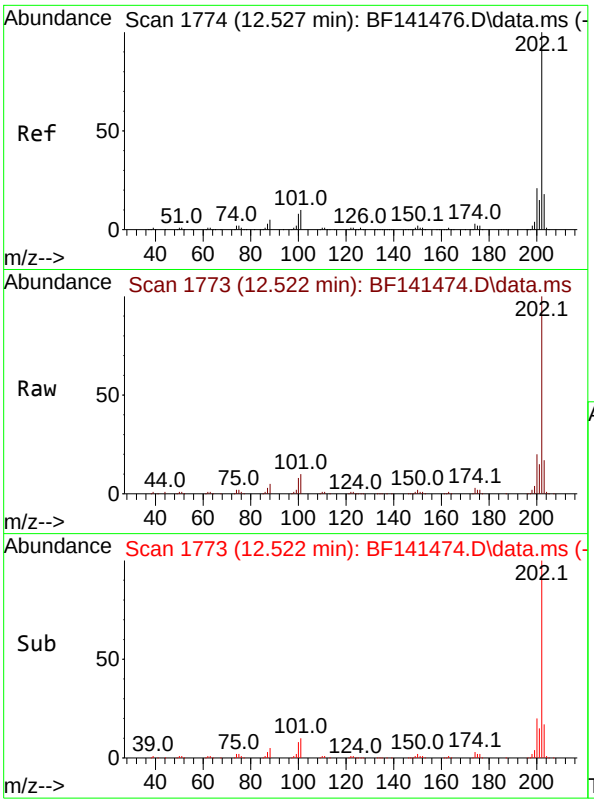


#74
Di-n-butylphthalate
Concen: 10.057 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 200806

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.0	4.2	6.2



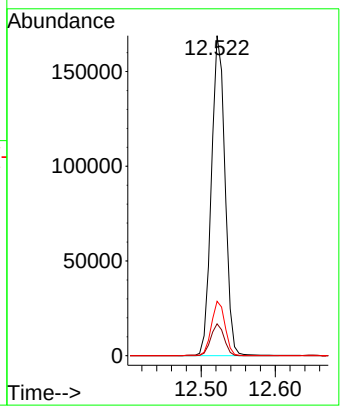


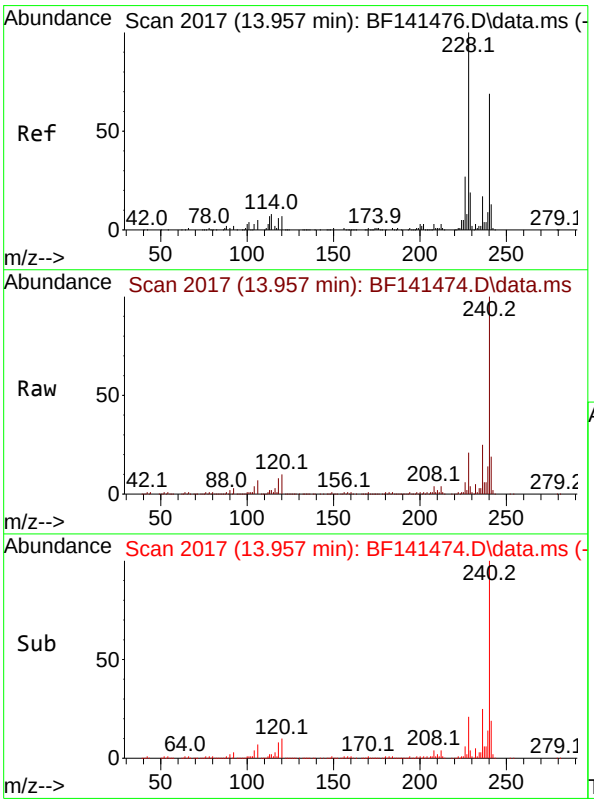
#75
Fluoranthene
Concen: 10.618 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 215218

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	30.2
203	17.0	0.0	37.6

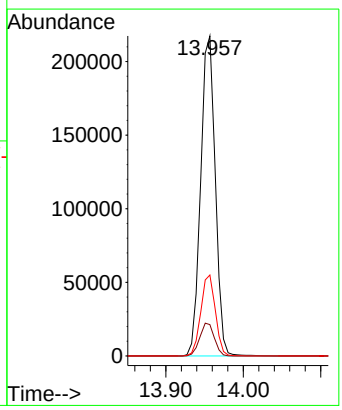


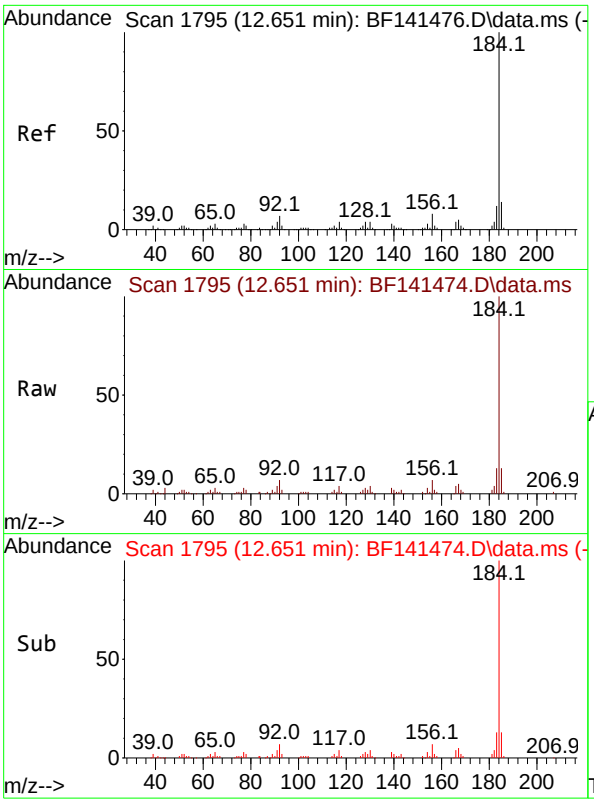


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:240 Resp: 284792

Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.0	12.0
236	25.3	19.8	29.8



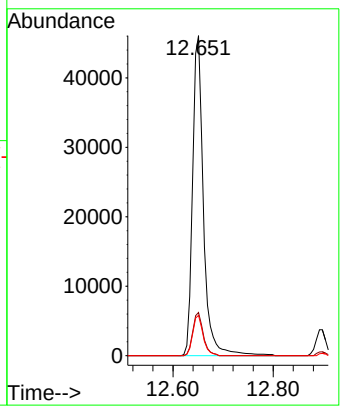


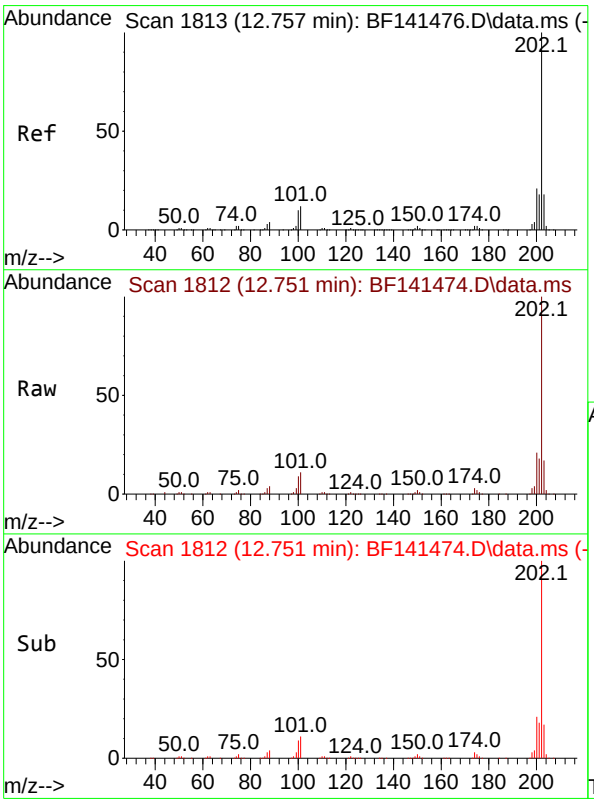
#77
Benzidine
Concen: 11.050 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 69402

Ion	Ratio	Lower	Upper
184	100		
185	13.5	11.3	16.9
183	12.6	9.3	13.9

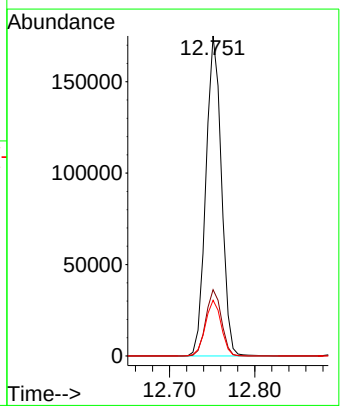


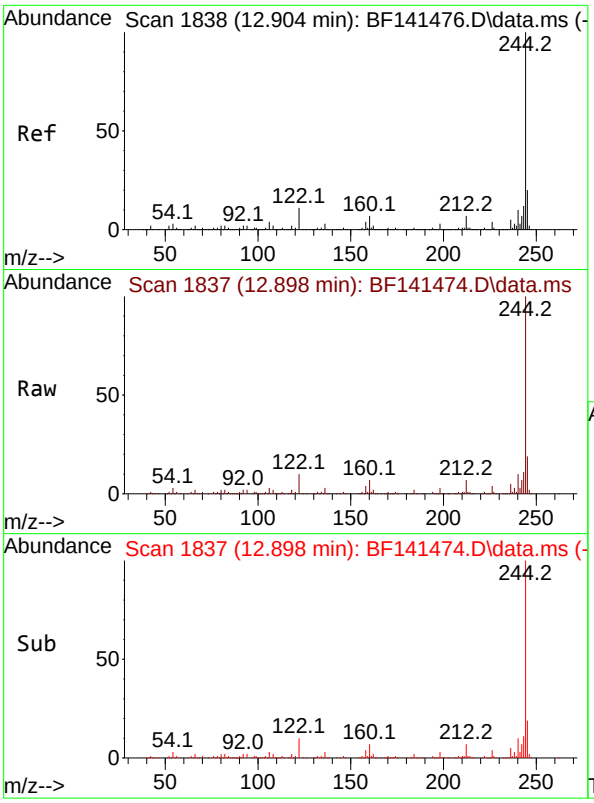


#78
Pyrene
Concen: 9.146 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:202 Resp: 221721

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.4	14.3	21.5



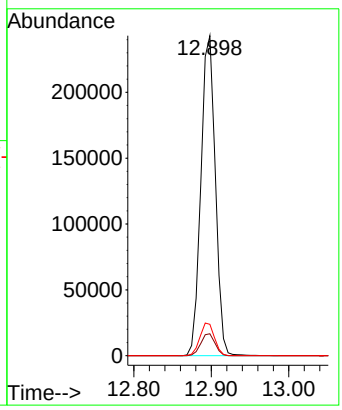


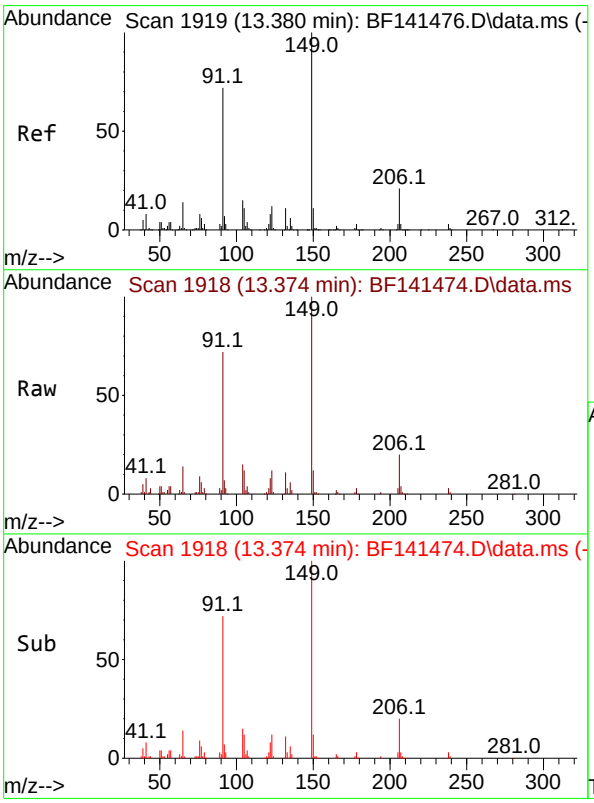
#79
Terphenyl-d14
Concen: 18.645 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 314541

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	9.8	8.4	12.6

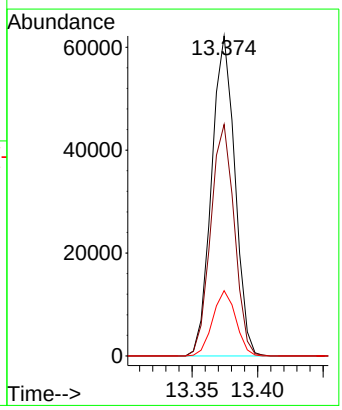


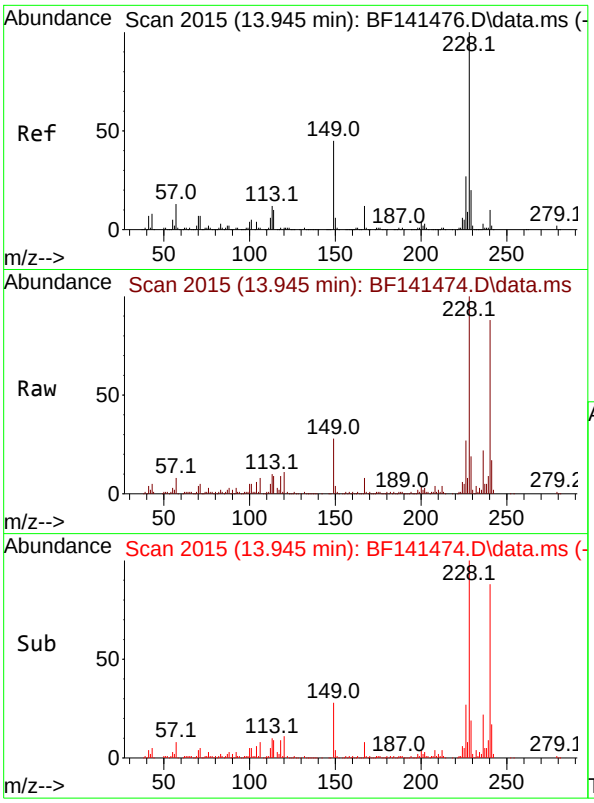


#80
Butylbenzylphthalate
Concen: 9.152 ng
RT: 13.374 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 76852

Ion	Ratio	Lower	Upper
149	100		
91	72.3	57.8	86.8
206	20.4	16.7	25.1



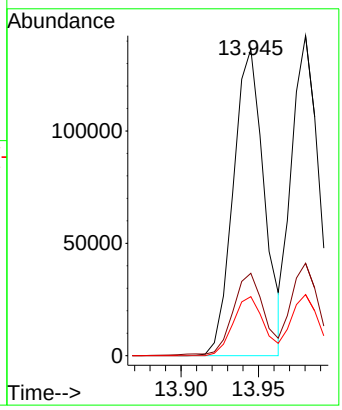


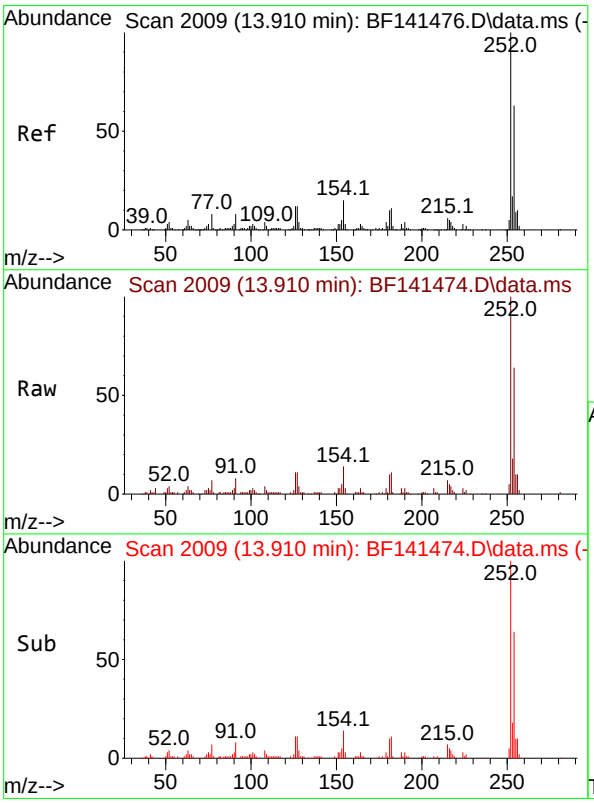
#81
Benzo(a)anthracene
Concen: 10.021 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 189705

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.3	15.8	23.6

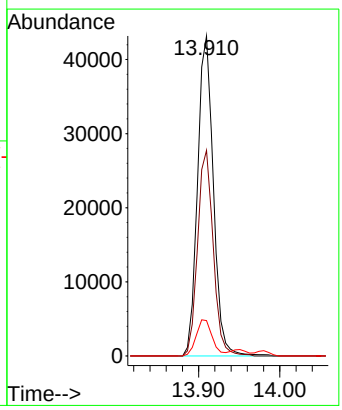


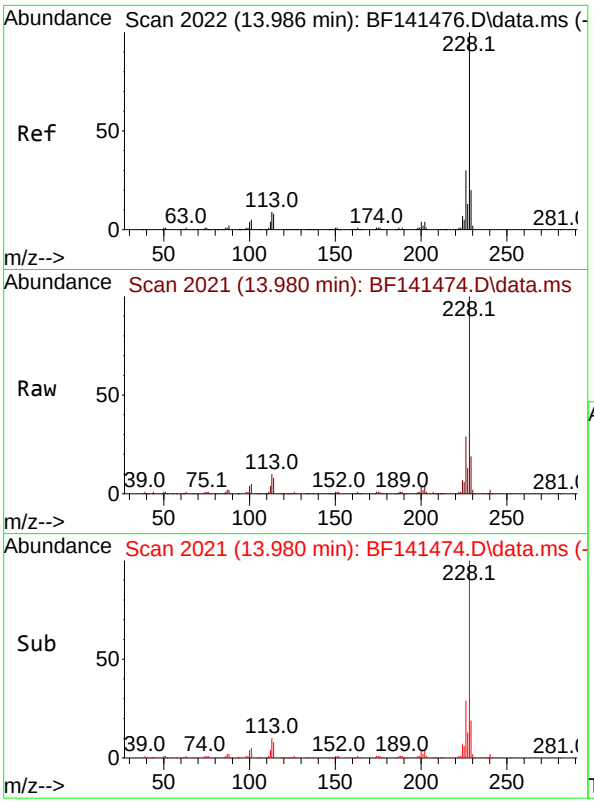


#82
3,3'-Dichlorobenzidine
Concen: 10.785 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 58487

Ion	Ratio	Lower	Upper
252	100		
254	64.3	50.6	76.0
126	11.1	9.3	13.9



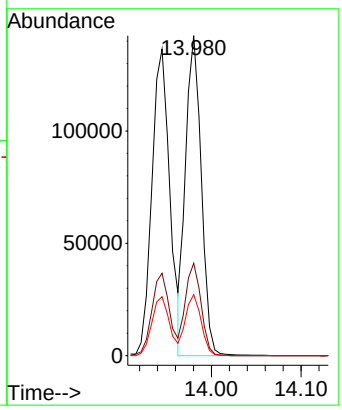


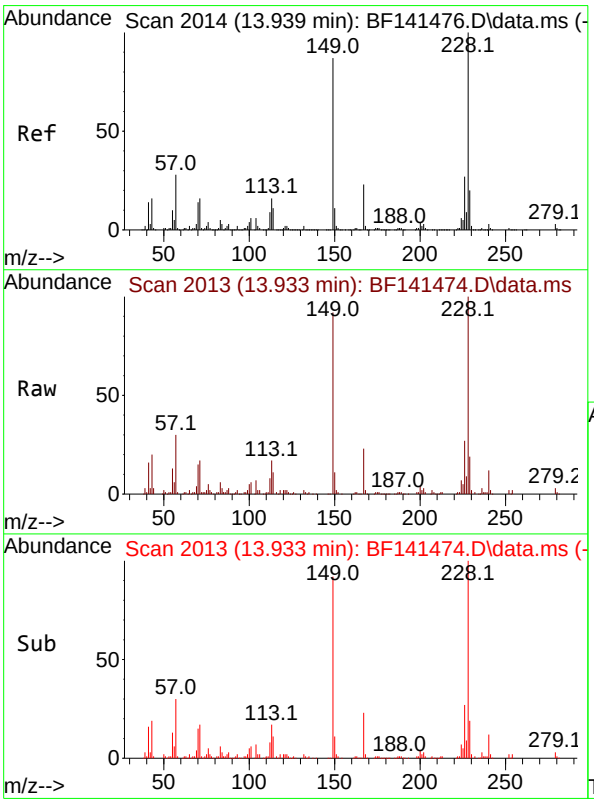
#83
Chrysene
Concen: 9.960 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 174103

Ion	Ratio	Lower	Upper
228	100		
226	28.9	24.0	36.0
229	19.1	15.7	23.5

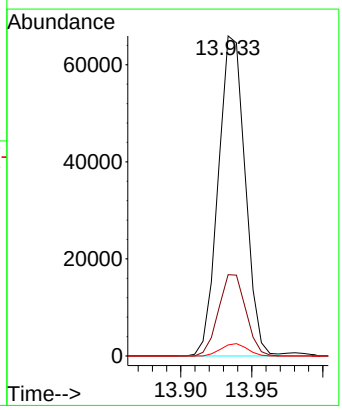


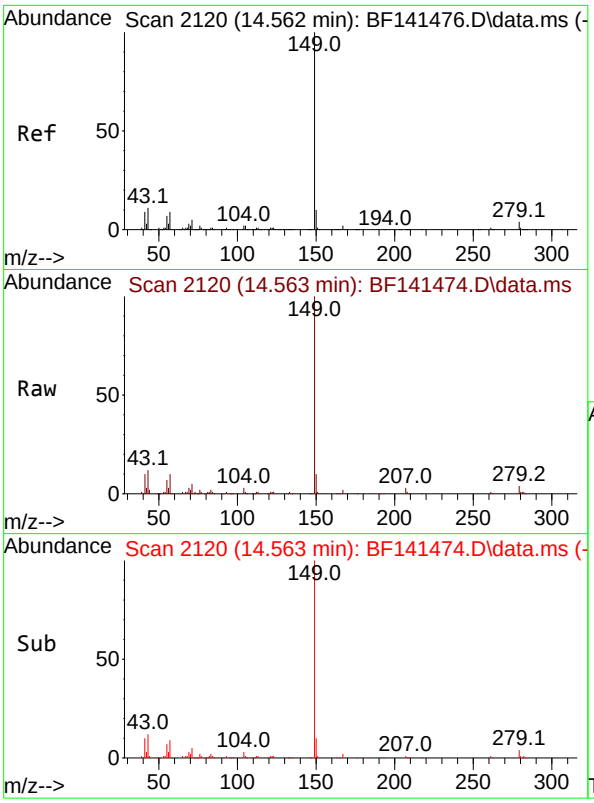


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.171 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:149 Resp: 86853

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.4	32.0
279	3.5	3.1	4.7



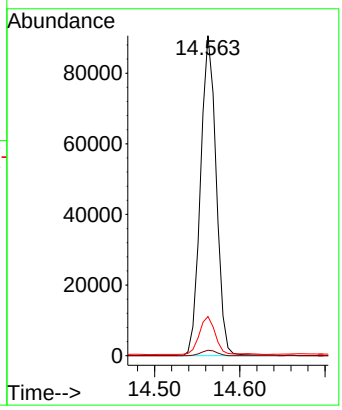


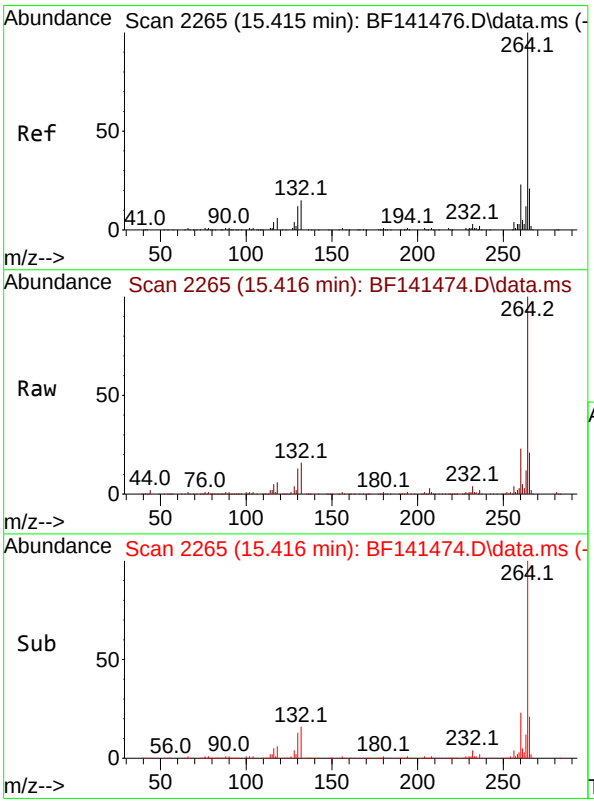
#85
Di-n-octyl phthalate
Concen: 8.576 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 115875

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	12.1	9.5	14.3

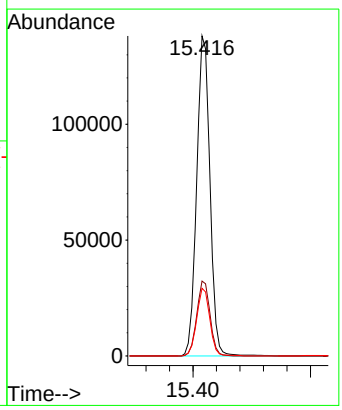


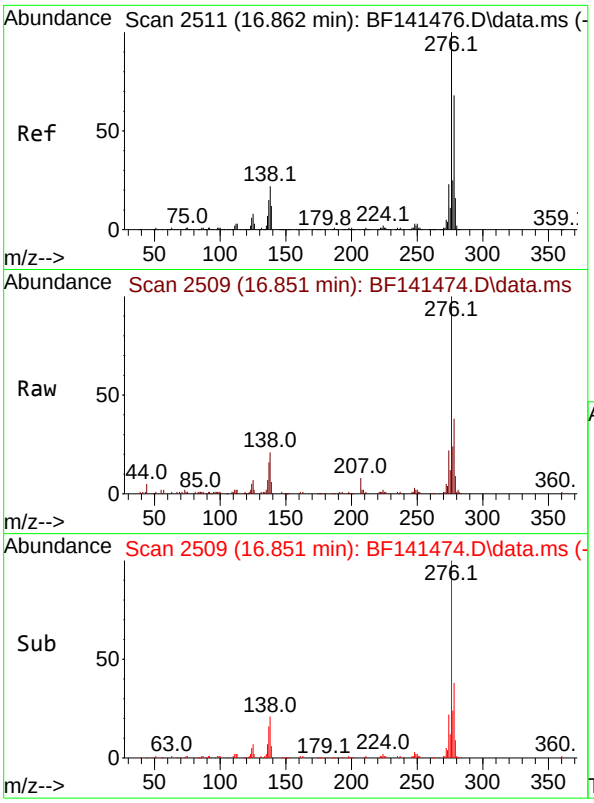


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:264 Resp: 215900

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	21.2	17.0	25.4



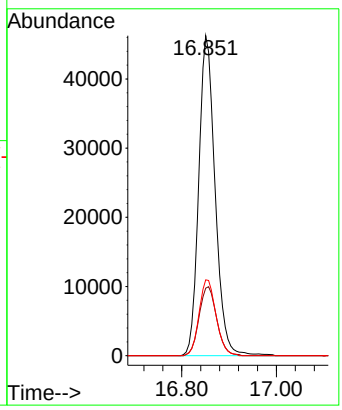


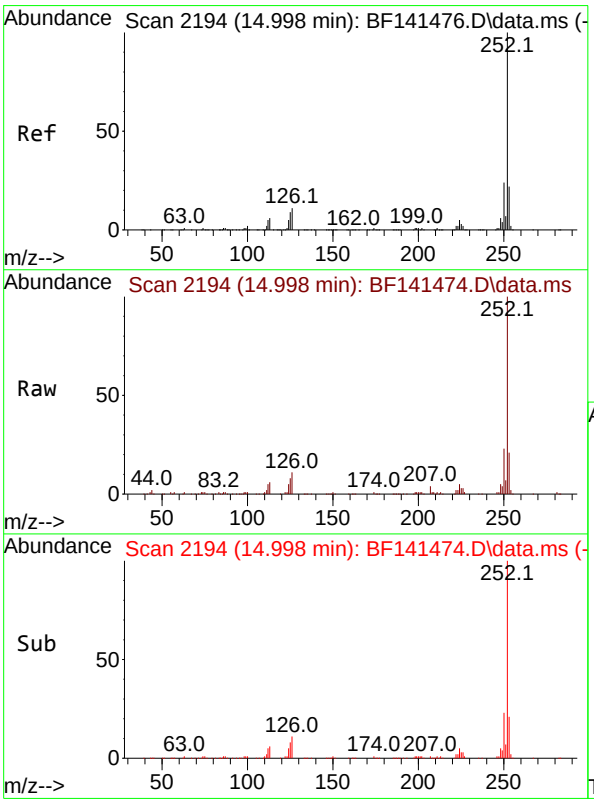
#87
Indeno(1,2,3-cd)pyrene
Concen: 8.327 ng
RT: 16.851 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 111083

Ion	Ratio	Lower	Upper
276	100		
138	23.1	18.0	27.0
277	24.5	20.4	30.6

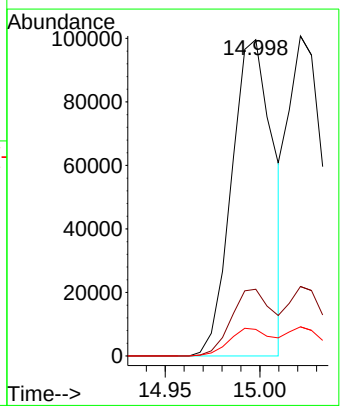


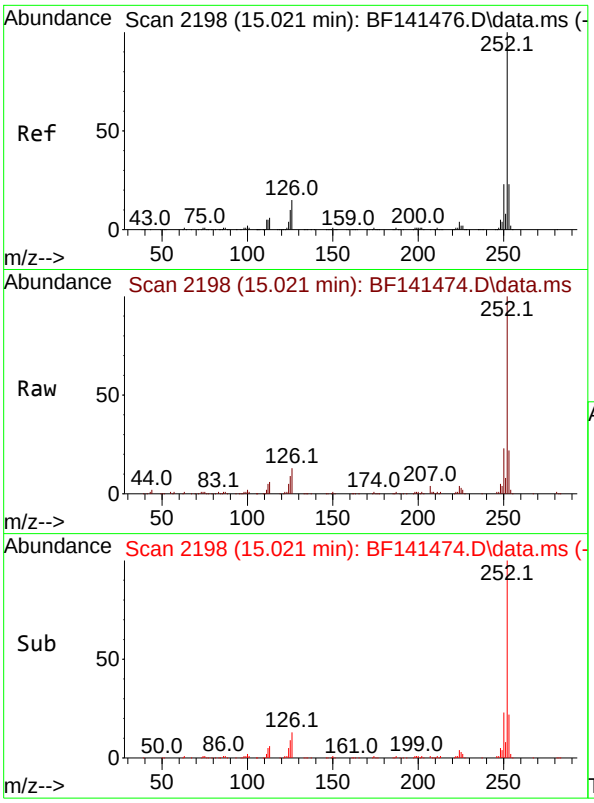


#88
Benzo(b)fluoranthene
Concen: 10.476 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 151861

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.5	26.3
125	8.4	7.0	10.6



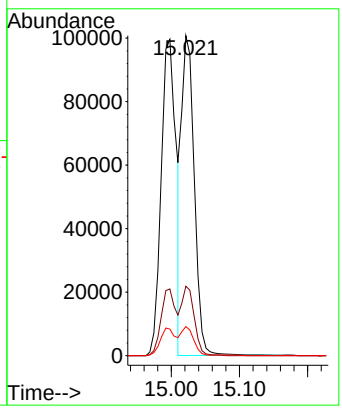


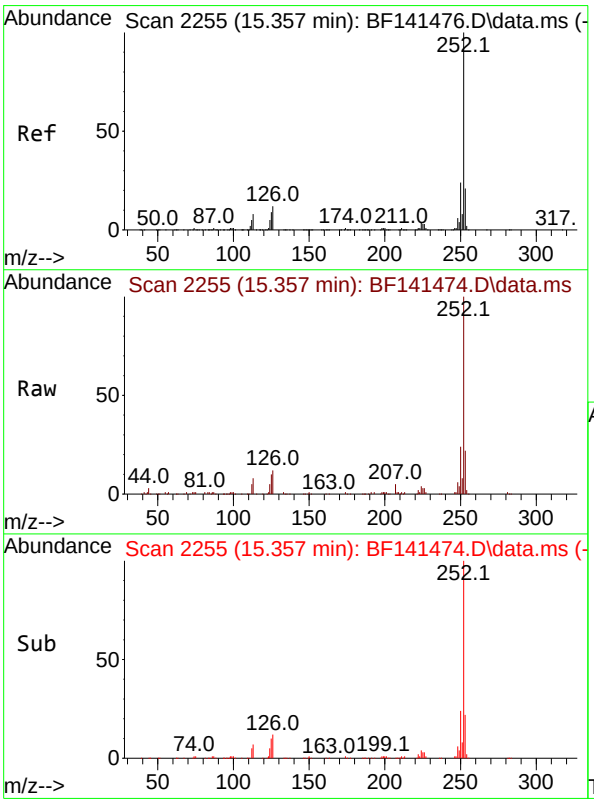
#89
Benzo(k)fluoranthene
Concen: 10.604 ng
RT: 15.021 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 131265

Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.0	27.0
125	9.1	7.4	11.0

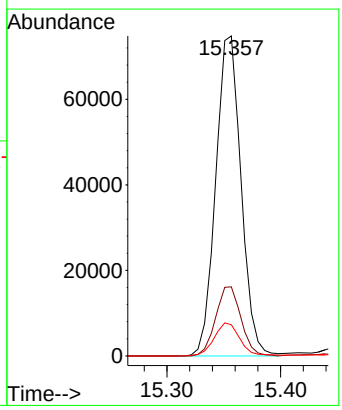


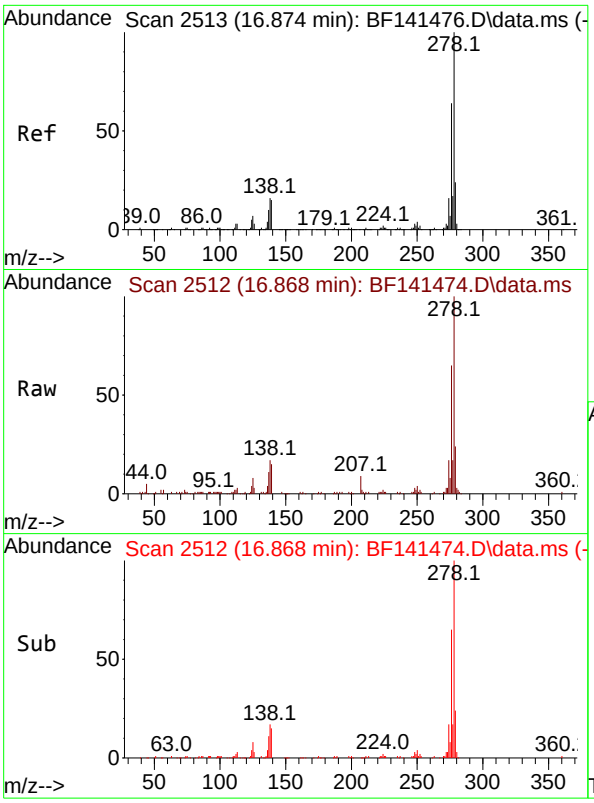


#90
Benzo(a)pyrene
Concen: 9.885 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:252 Resp: 115948

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.8	7.4	11.2



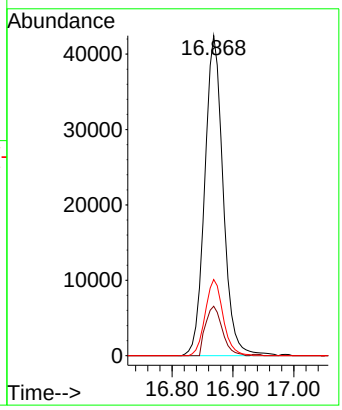


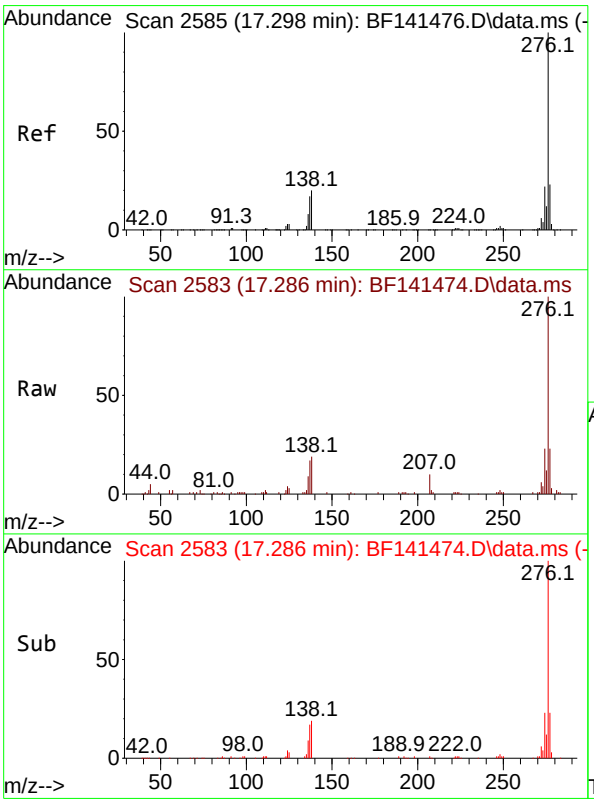
#91
Dibenzo(a,h)anthracene
Concen: 8.271 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 89400

Ion	Ratio	Lower	Upper
278	100		
139	15.4	11.8	17.6
279	23.8	19.1	28.7

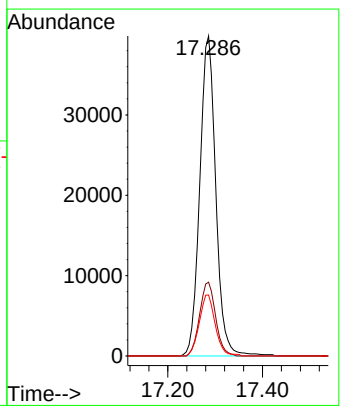




#92
Benzo(g,h,i)perylene
Concen: 8.243 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141474.D
Acq: 06 Feb 2025 12:00

Tgt Ion:276 Resp: 93242

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.6	28.0
138	19.0	15.9	23.9



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	86149	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	348017	20.000	ng	0.00
39) Acenaphthene-d10	9.828	164	193091	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	333651	20.000	ng	0.00
76) Chrysene-d12	13.957	240	251741	20.000	ng	0.00
86) Perylene-d12	15.416	264	191435	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	235106	42.785	ng	0.00
7) Phenol-d6	6.422	99	293602	42.273	ng	-0.02
23) Nitrobenzene-d5	7.351	82	275773	41.331	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	80912	41.714	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	534841	42.674	ng	0.00
79) Terphenyl-d14	12.898	244	609819	40.894	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	45027	20.359	ng	98
3) Pyridine	3.211	79	112903	21.453	ng	96
4) n-Nitrosodimethylamine	3.152	42	70658	20.276	ng	98
6) Aniline	6.446	93	142156	21.820	ng	97
8) 2-Chlorophenol	6.575	128	124573	20.980	ng	98
9) Benzaldehyde	6.340	77	84531	22.903	ng	98
10) Phenol	6.440	94	156515	21.652	ng	96
11) bis(2-Chloroethyl)ether	6.522	93	111675	20.568	ng	98
12) 1,3-Dichlorobenzene	6.728	146	133906	21.362	ng	99
13) 1,4-Dichlorobenzene	6.804	146	135357	21.134	ng	99
14) 1,2-Dichlorobenzene	6.957	146	126931	21.354	ng	99
15) Benzyl Alcohol	6.928	79	113901	21.386	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.063	45	199281	21.441	ng	99
17) 2-Methylphenol	7.046	107	96607	20.792	ng	99
18) Hexachloroethane	7.298	117	50745	21.409	ng	99
19) n-Nitroso-di-n-propyla...	7.199	70	89512	21.546	ng	99
20) 3+4-Methylphenols	7.199	107	125707	21.287	ng	91
22) Acetophenone	7.199	105	181333	20.946	ng	100
24) Nitrobenzene	7.369	77	133285	20.485	ng	99
25) Isophorone	7.604	82	220291	20.706	ng	99
26) 2-Nitrophenol	7.687	139	66195	20.449	ng	98
27) 2,4-Dimethylphenol	7.728	122	76751	20.296	ng	97
28) bis(2-Chloroethoxy)met...	7.822	93	142151	20.852	ng	99
29) 2,4-Dichlorophenol	7.934	162	108456	21.227	ng	97
30) 1,2,4-Trichlorobenzene	8.010	180	115050	20.678	ng	100
31) Naphthalene	8.093	128	381547	21.062	ng	99
32) Benzoic acid	7.828	122	75462	19.212	ng	99
33) 4-Chloroaniline	8.146	127	132911	21.014	ng	98
34) Hexachlorobutadiene	8.210	225	69492	20.804	ng	98
35) Caprolactam	8.498	113	32746	21.050	ng	97
36) 4-Chloro-3-methylphenol	8.628	107	119021	21.029	ng	99
37) 2-Methylnaphthalene	8.781	142	250365	21.238	ng	98
38) 1-Methylnaphthalene	8.881	142	240408	21.056	ng	99
40) 1,2,4,5-Tetrachloroben...	8.945	216	115936	20.753	ng	99
41) Hexachlorocyclopentadiene	8.934	237	34729	18.691	ng	97
43) 2,4,6-Trichlorophenol	9.063	196	75161	20.817	ng	98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration

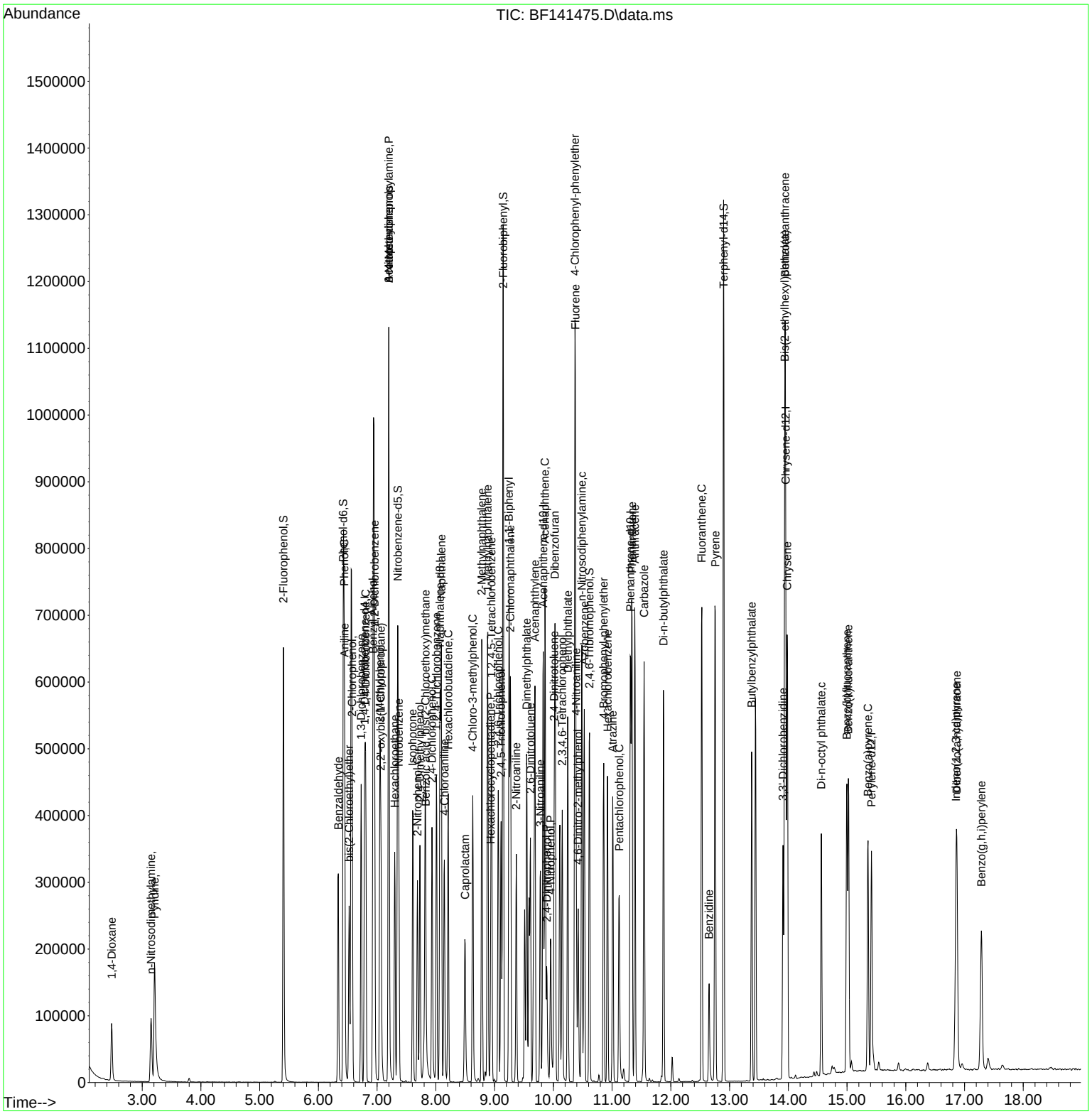
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	83112	21.240	ng	97
46) 1,1'-Biphenyl	9.245	154	315040	21.045	ng	99
47) 2-Chloronaphthalene	9.269	162	233789	21.119	ng	99
48) 2-Nitroaniline	9.369	65	75990	20.455	ng	99
49) Acenaphthylene	9.687	152	345829	21.004	ng	99
50) Dimethylphthalate	9.545	163	271920	20.744	ng	100
51) 2,6-Dinitrotoluene	9.610	165	60700	21.182	ng	98
52) Acenaphthene	9.857	154	248578	22.456	ng	98
53) 3-Nitroaniline	9.781	138	64626	20.954	ng	96
54) 2,4-Dinitrophenol	9.887	184	32186	18.898	ng	98
55) Dibenzofuran	10.028	168	342620	21.087	ng	100
56) 4-Nitrophenol	9.951	139	47721	20.843	ng	96
57) 2,4-Dinitrotoluene	10.016	165	79865	20.936	ng	95
58) Fluorene	10.375	166	265810	21.159	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.151	232	69328	20.579	ng	100
60) Diethylphthalate	10.245	149	270018	20.936	ng	100
61) 4-Chlorophenyl-phenyle...	10.369	204	127216	21.049	ng	97
62) 4-Nitroaniline	10.387	138	64262	20.519	ng	98
63) Azobenzene	10.528	77	267372	20.853	ng	98
65) 4,6-Dinitro-2-methylph...	10.422	198	46877	20.226	ng	99
66) n-Nitrosodiphenylamine	10.487	169	224776	21.045	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	78167	20.962	ng	97
68) Hexachlorobenzene	10.922	284	80301	20.913	ng	97
69) Atrazine	11.010	200	71359	22.271	ng	97
70) Pentachlorophenol	11.122	266	50539	20.584	ng	98
71) Phenanthrene	11.339	178	387256	21.085	ng	99
72) Anthracene	11.386	178	386414	20.930	ng	100
73) Carbazole	11.545	167	358987	21.610	ng	99
74) Di-n-butylphthalate	11.875	149	408041	21.273	ng	100
75) Fluoranthene	12.528	202	414712	21.298	ng	99
77) Benzidine	12.651	184	84013	15.132	ng	98
78) Pyrene	12.757	202	432216	20.169	ng	99
80) Butylbenzylphthalate	13.375	149	152184	20.502	ng	99
81) Benzo(a)anthracene	13.945	228	339877	20.310	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	102367	21.355	ng	98
83) Chrysene	13.980	228	330823	21.411	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	172352	20.588	ng	99
85) Di-n-octyl phthalate	14.563	149	229060	19.180	ng	99
87) Indeno(1,2,3-cd)pyrene	16.857	276	227105	19.200	ng	99
88) Benzo(b)fluoranthene	14.998	252	267695	20.826	ng	100
89) Benzo(k)fluoranthene	15.022	252	238695	21.747	ng	97
90) Benzo(a)pyrene	15.357	252	213510	20.528	ng	100
91) Dibenzo(a,h)anthracene	16.868	278	185740	19.379	ng	98
92) Benzo(g,h,i)perylene	17.286	276	191595	19.103	ng	99

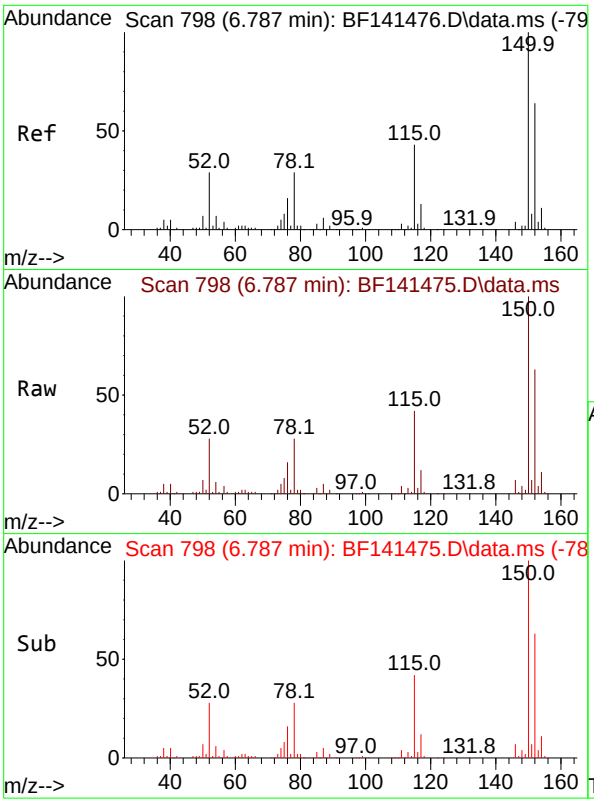
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020625\
Data File : BF141475.D
Acq On : 06 Feb 2025 12:26
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Feb 06 16:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 15:49:10 2025
Response via : Initial Calibration



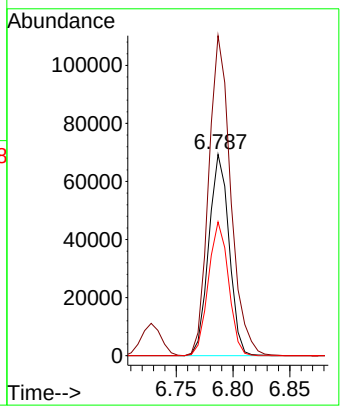


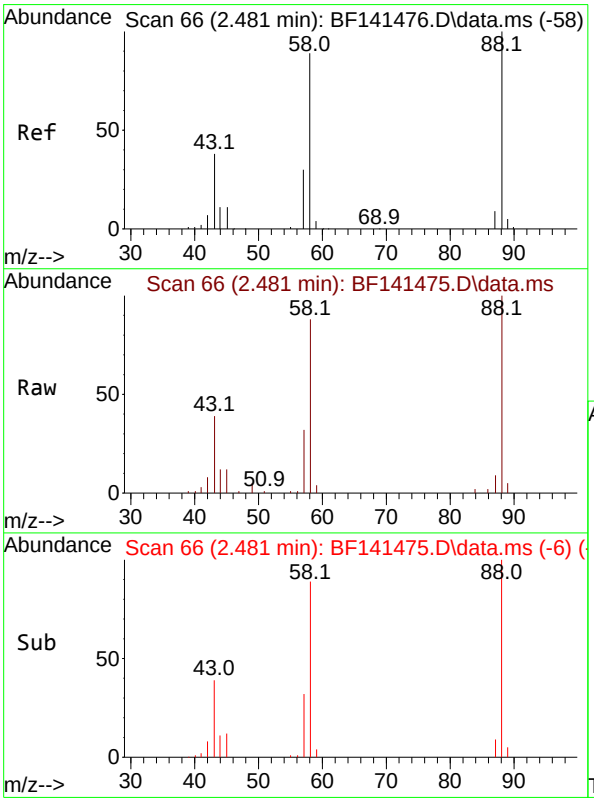
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 86149

Ion	Ratio	Lower	Upper
152	100		
150	159.0	125.0	187.4
115	66.4	53.6	80.4

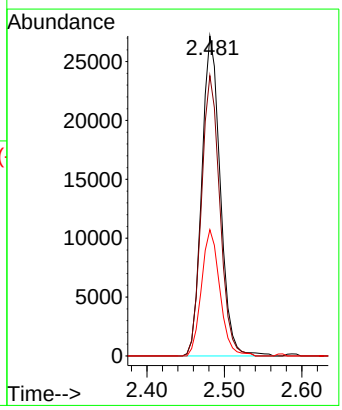


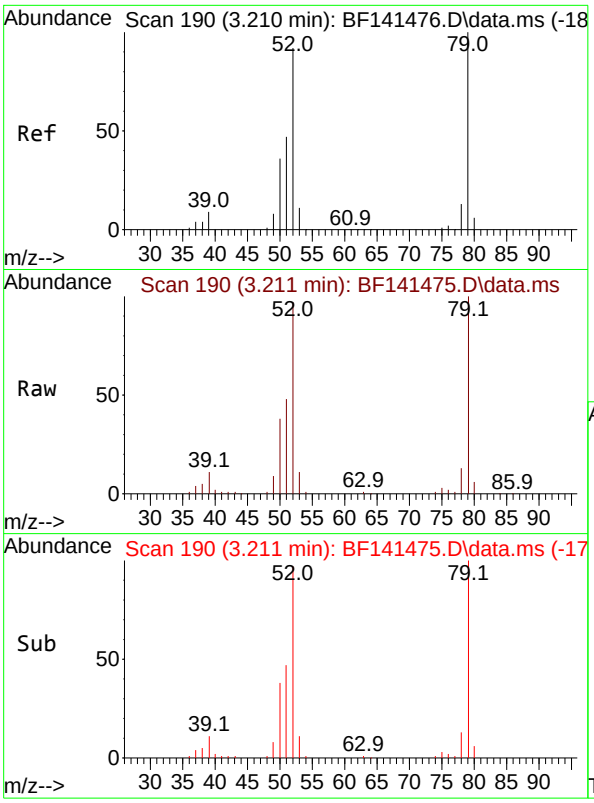


#2
1,4-Dioxane
Concen: 20.359 ng
RT: 2.481 min Scan# 66
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 88 Resp: 45027

Ion	Ratio	Lower	Upper
88	100		
58	87.1	71.1	106.7
43	39.2	30.6	46.0



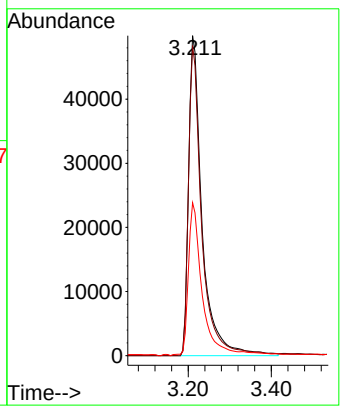


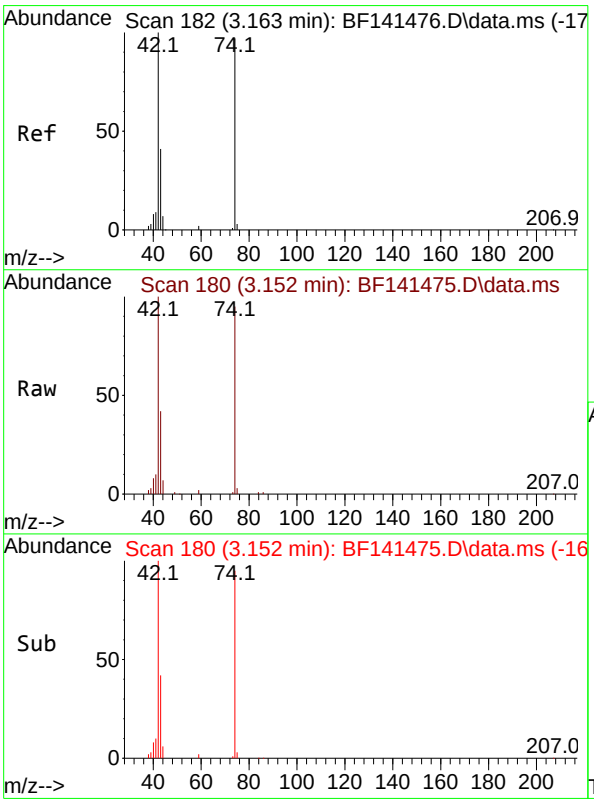
#3
Pyridine
Concen: 21.453 ng
RT: 3.211 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 112903

Ion	Ratio	Lower	Upper
79	100		
52	96.9	73.7	110.5
51	47.8	37.5	56.3

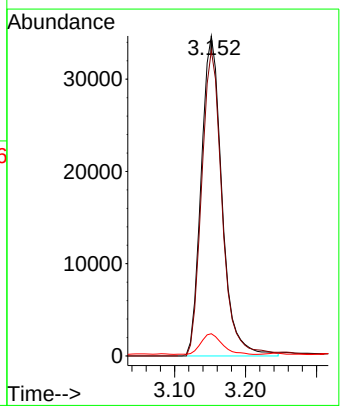


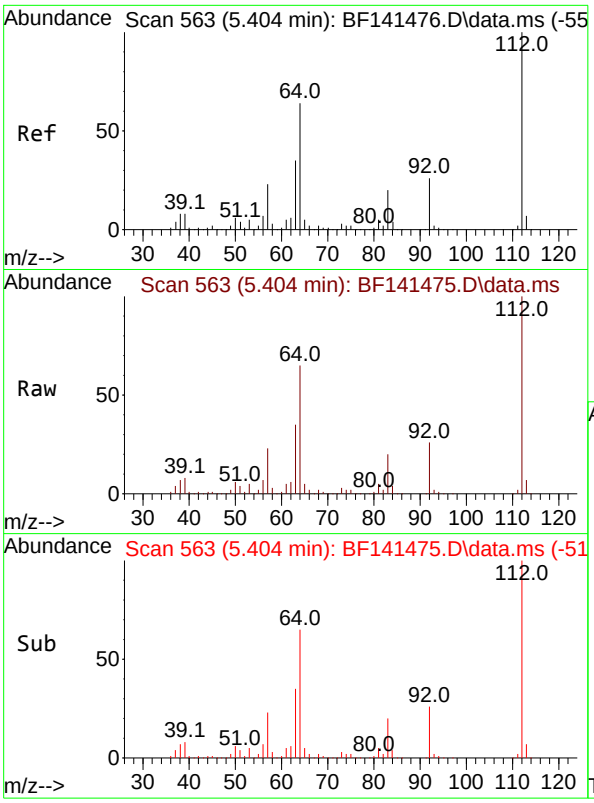


#4
n-Nitrosodimethylamine
Concen: 20.276 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.035 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 42 Resp: 70658

Ion	Ratio	Lower	Upper
42	100		
74	95.4	78.0	117.0
44	7.0	5.4	8.2



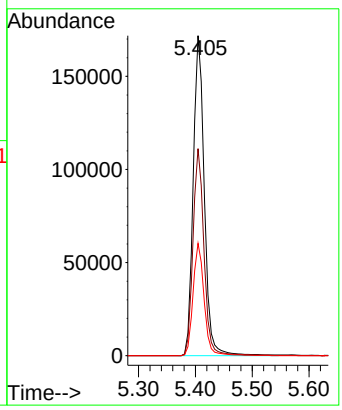


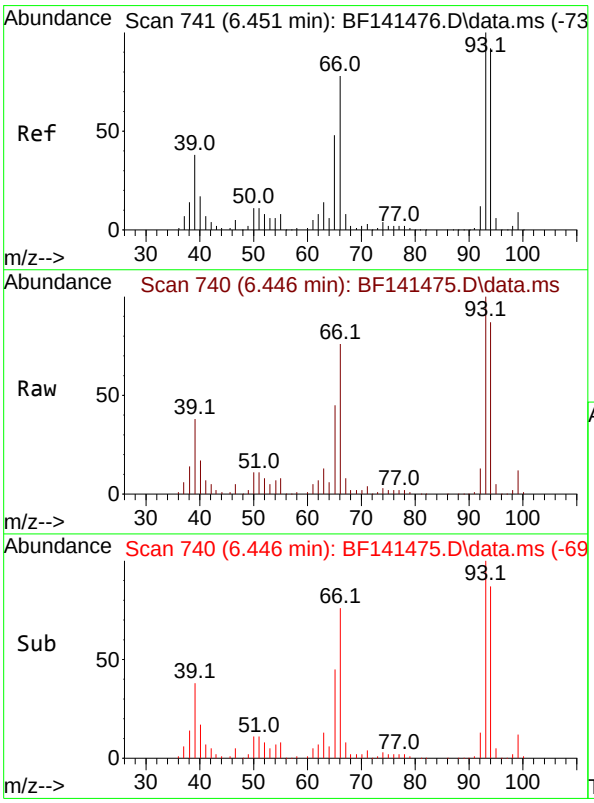
#5
2-Fluorophenol
Concen: 42.785 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 235106

Ion	Ratio	Lower	Upper
112	100		
64	64.7	51.1	76.7
63	35.1	28.4	42.6

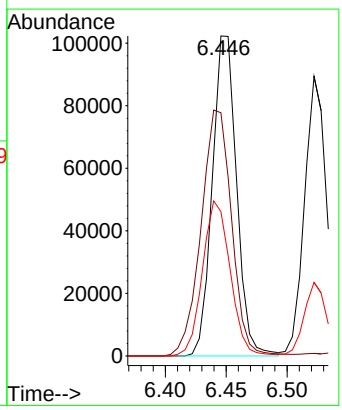


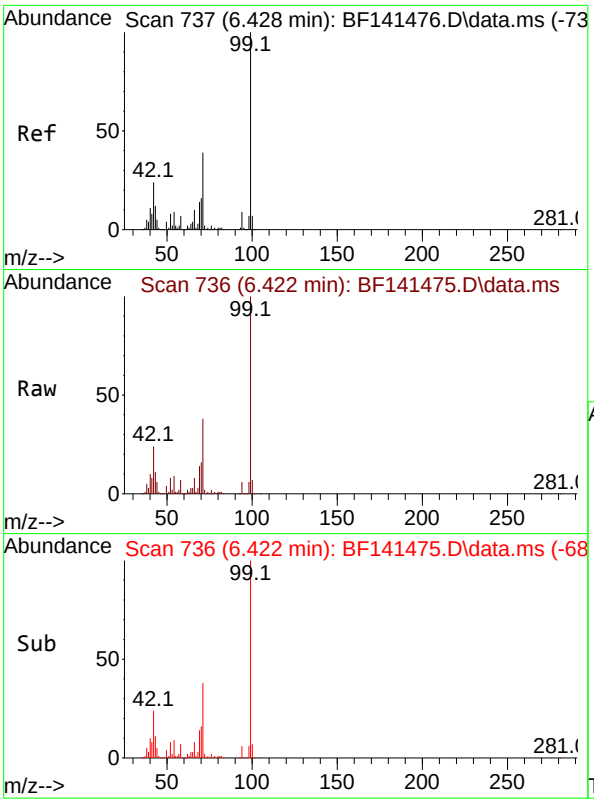


#6
Aniline
Concen: 21.820 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142156

Ion	Ratio	Lower	Upper
93	100		
66	76.0	62.6	94.0
65	45.1	38.3	57.5



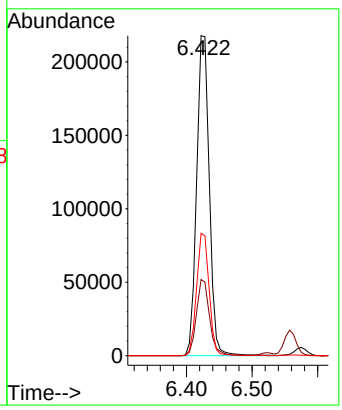


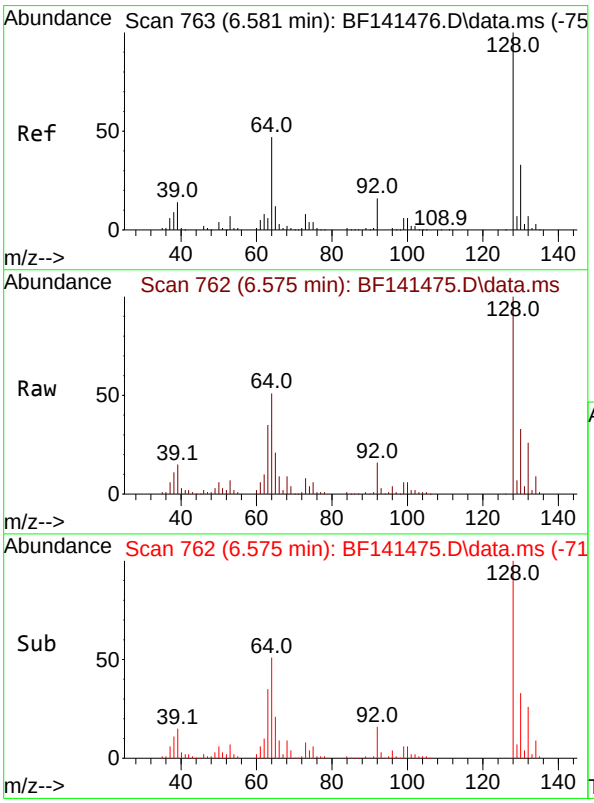
#7
Phenol-d6
Concen: 42.273 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 293602

Ion	Ratio	Lower	Upper
99	100		
42	23.8	19.1	28.7
71	38.2	31.1	46.7

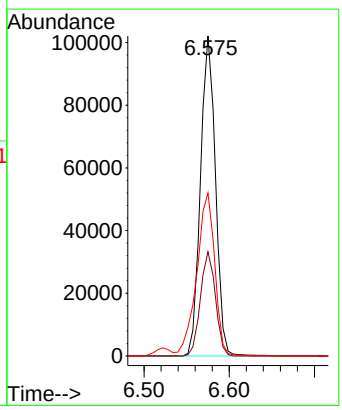


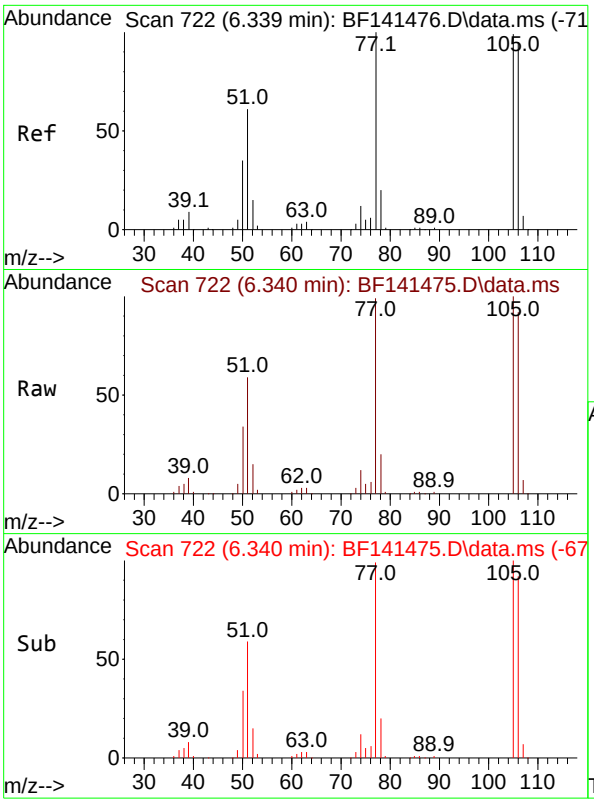


#8
2-Chlorophenol
Concen: 20.980 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:128 Resp: 124573

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.7	52.7
64	50.9	28.3	68.3



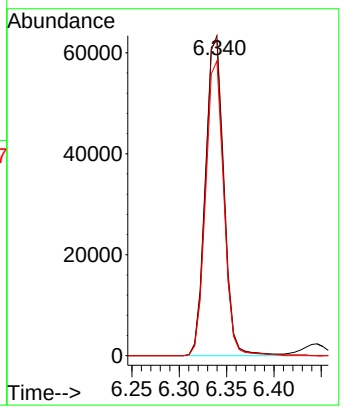


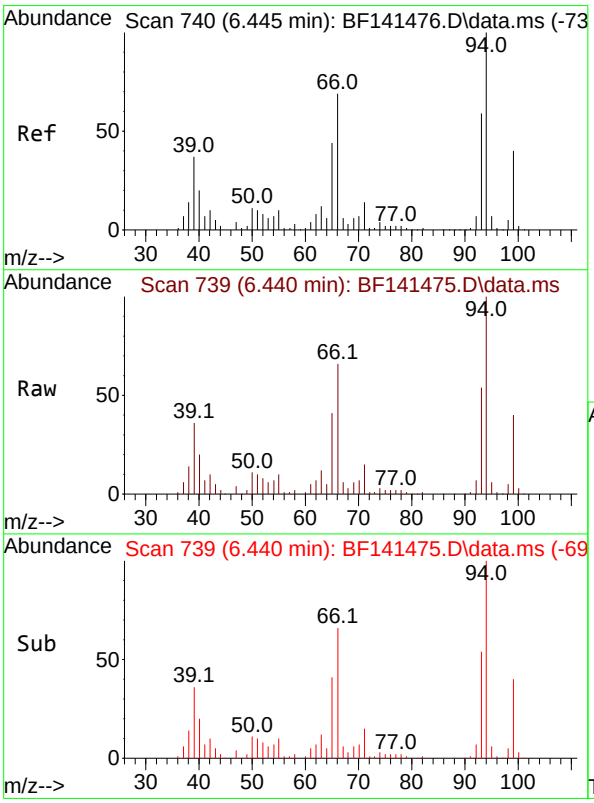
#9
Benzaldehyde
Concen: 22.903 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 84531

Ion	Ratio	Lower	Upper
77	100		
105	101.4	79.4	119.4
106	93.4	75.1	115.1

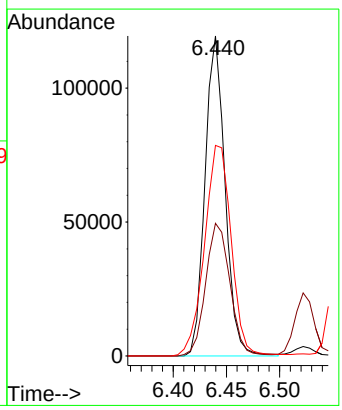


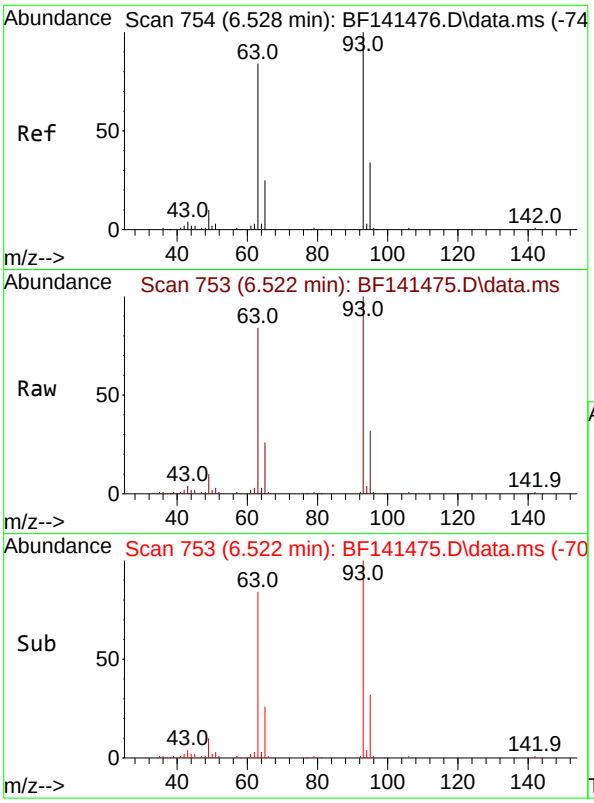


#10
Phenol
Concen: 21.652 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 94 Resp: 156515

Ion	Ratio	Lower	Upper
94	100		
65	41.5	23.7	63.7
66	65.8	49.3	89.3



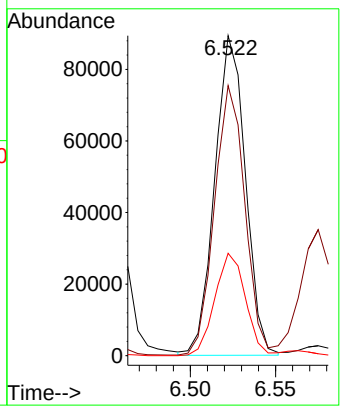


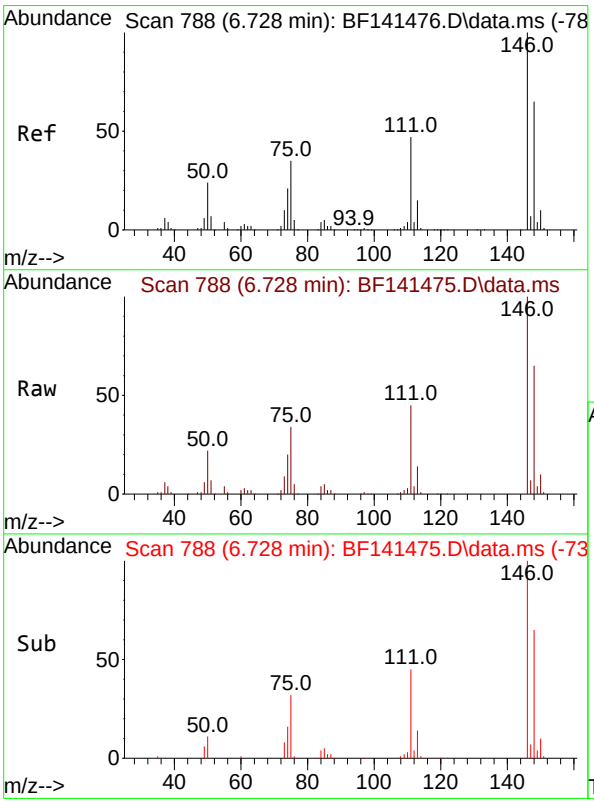
#11
bis(2-Chloroethyl)ether
Concen: 20.568 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 111675

Ion	Ratio	Lower	Upper
93	100		
63	84.4	62.0	102.0
95	32.0	12.6	52.6

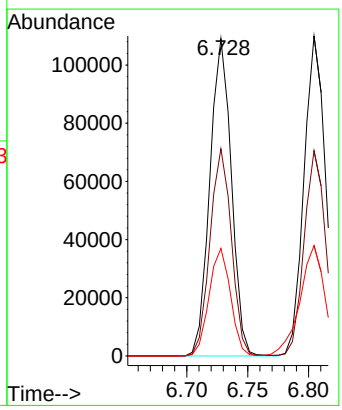


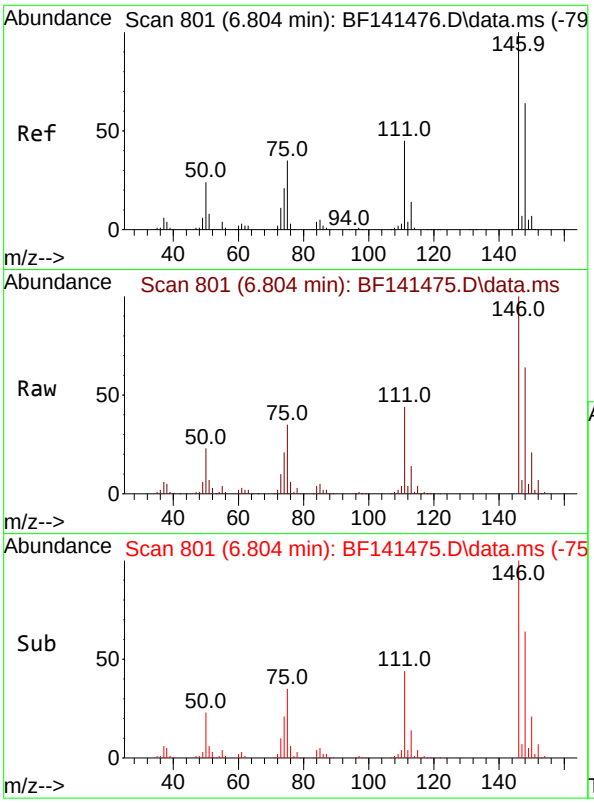


#12
1,3-Dichlorobenzene
Concen: 21.362 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 133906

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.9	77.9
75	33.8	28.2	42.2



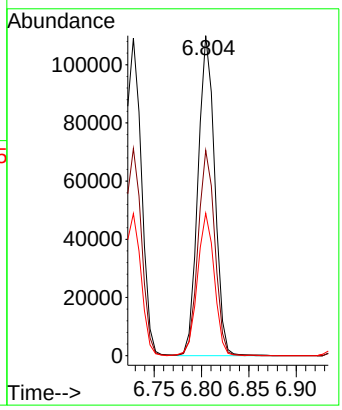


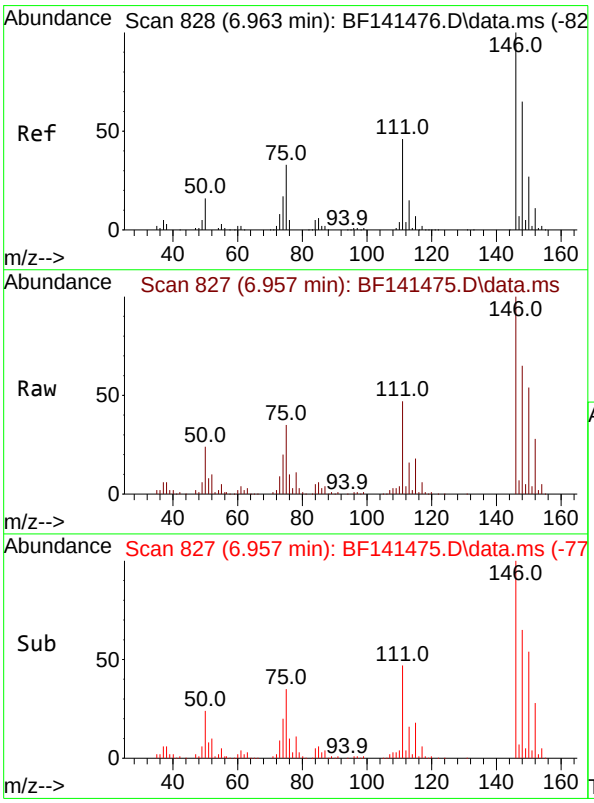
#13
1,4-Dichlorobenzene
Concen: 21.134 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 135357

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.9	76.3
111	44.5	35.9	53.9

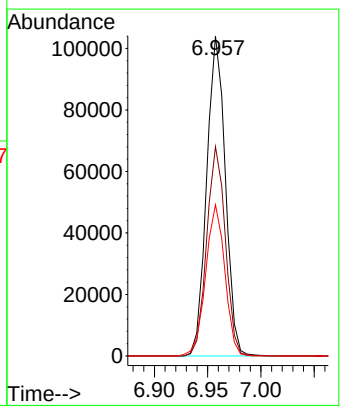


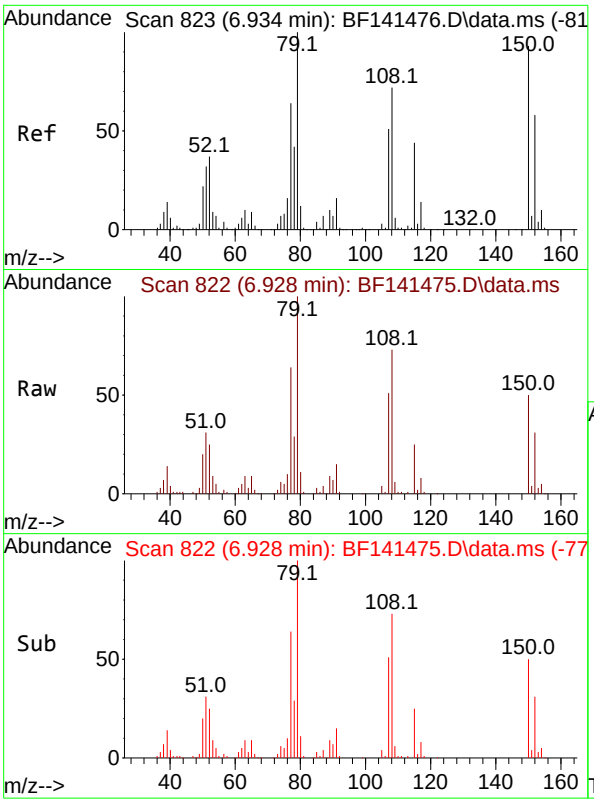


#14
1,2-Dichlorobenzene
Concen: 21.354 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:146 Resp: 126931

Ion	Ratio	Lower	Upper
146	100		
148	65.4	51.8	77.6
111	47.3	37.0	55.4



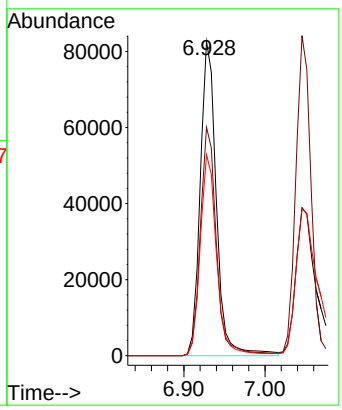


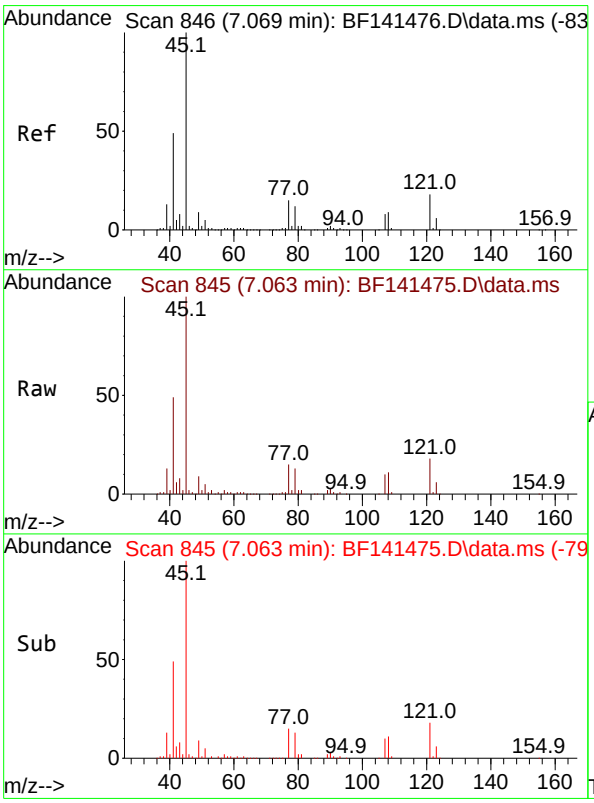
#15
Benzyl Alcohol
Concen: 21.386 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 113901

Ion	Ratio	Lower	Upper
79	100		
108	72.6	57.4	86.2
77	63.9	50.9	76.3

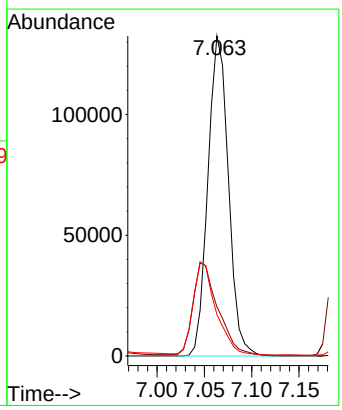


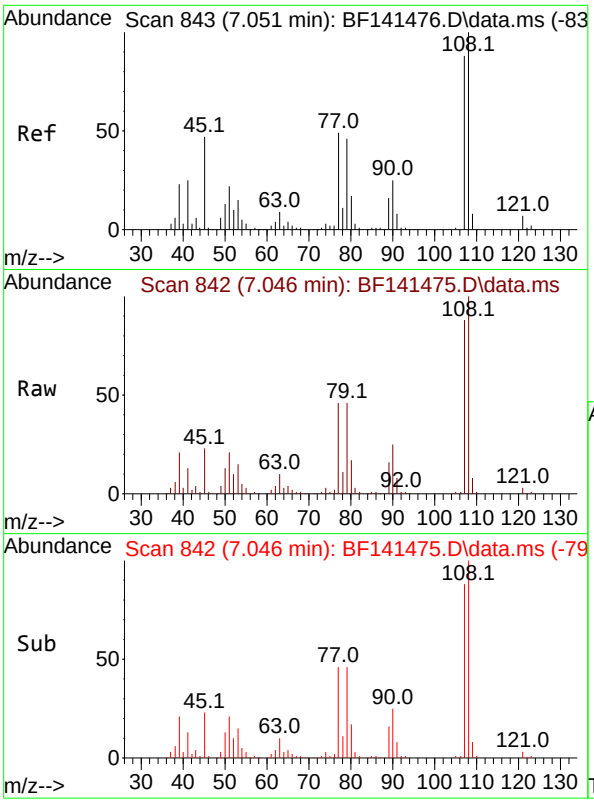


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.441 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 45 Resp: 199281

Ion	Ratio	Lower	Upper
45	100		
77	15.3	0.0	35.8
79	12.9	0.0	32.7



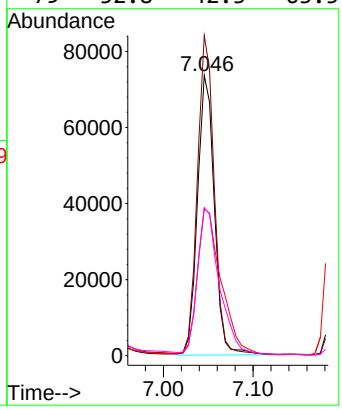


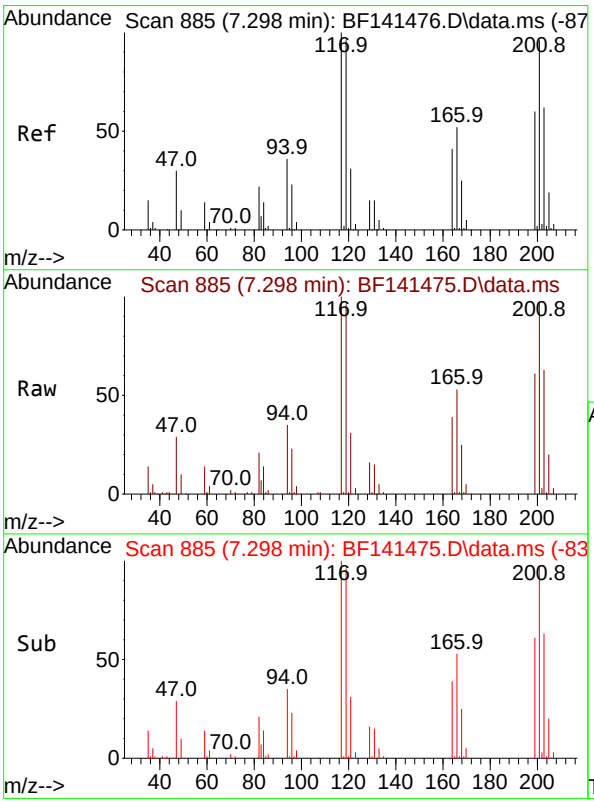
#17
2-Methylphenol
Concen: 20.792 ng
RT: 7.046 min Scan# 84
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 96607

Ion	Ratio	Lower	Upper
107	100		
108	114.2	90.6	136.0
77	52.4	44.4	66.6
79	52.8	42.3	63.5

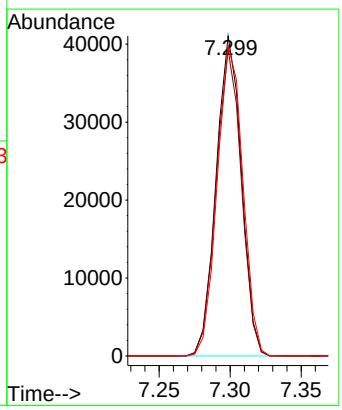


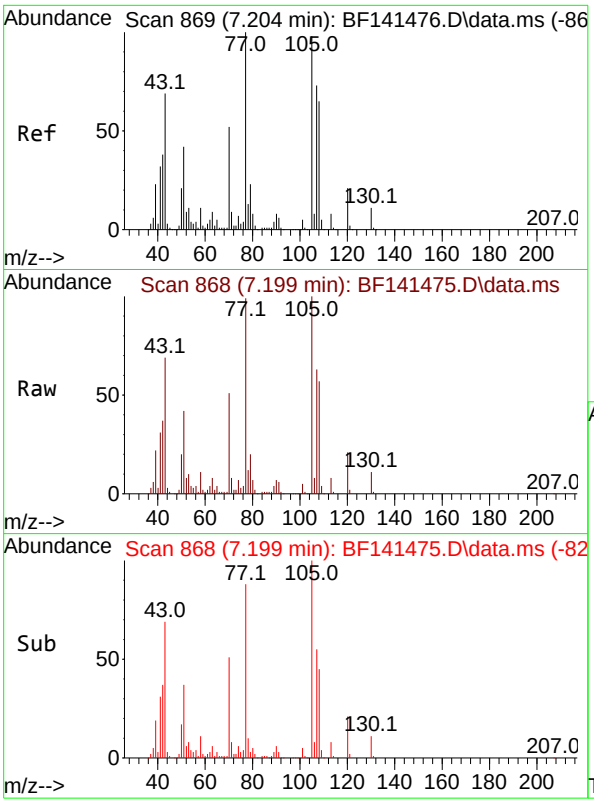


#18
Hexachloroethane
Concen: 21.409 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:117 Resp: 50745

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.5	114.7
201	97.0	76.7	115.1



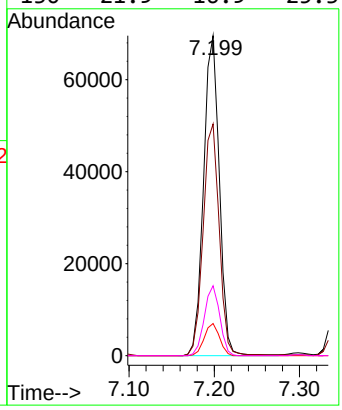


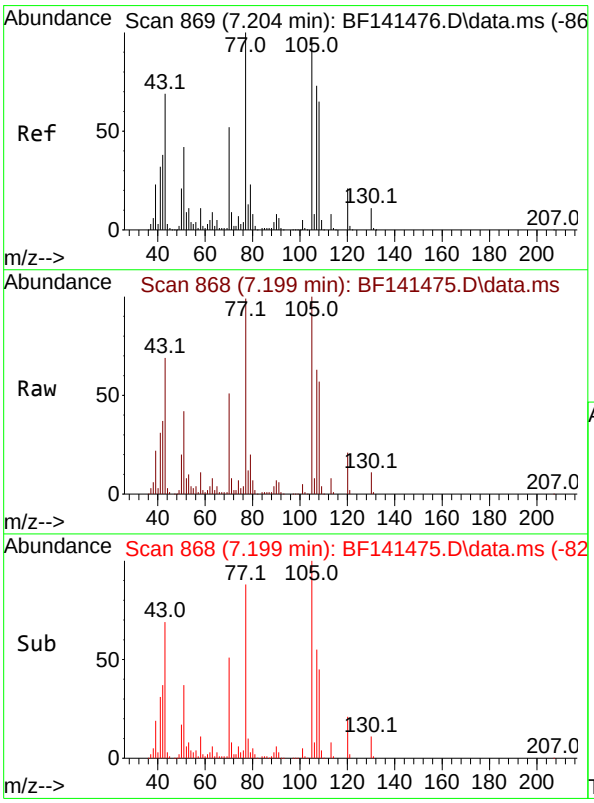
#19
n-Nitroso-di-n-propylamine
Concen: 21.546 ng
RT: 7.199 min Scan# 8
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 89512

Ion	Ratio	Lower	Upper
70	100		
42	72.4	57.4	86.2
101	10.0	8.0	12.0
130	21.9	16.9	25.3

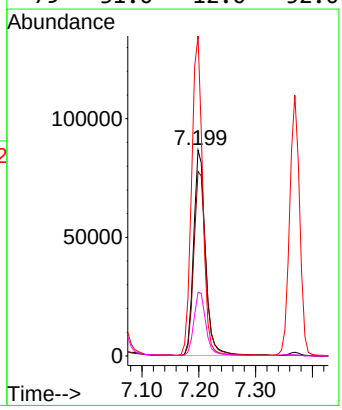


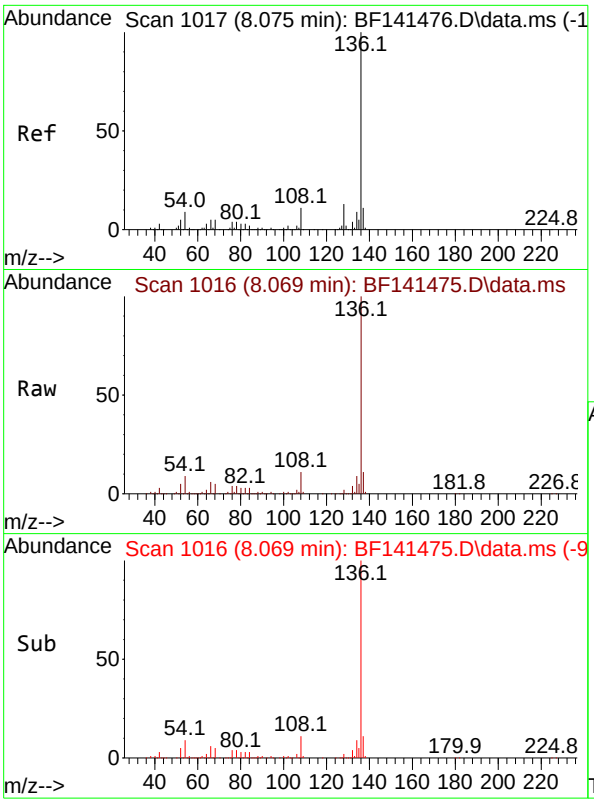


#20
3+4-Methylphenols
Concen: 21.287 ng
RT: 7.199 min Scan# 868
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 125707

Ion	Ratio	Lower	Upper
107	100		
108	89.7	68.5	108.5
77	155.6	116.5	156.5
79	31.0	12.0	52.0



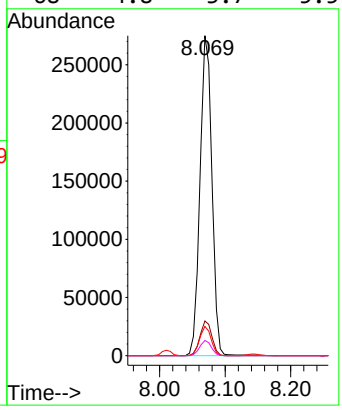


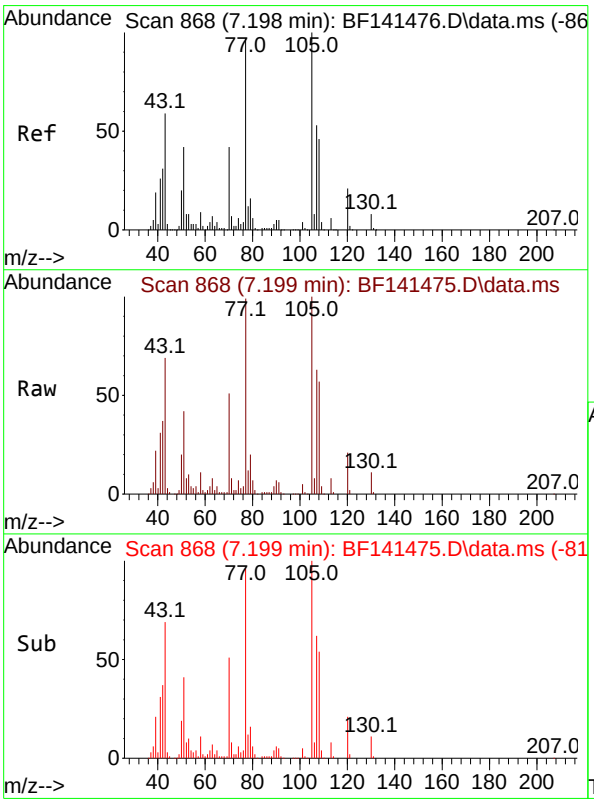
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 348017

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.2	7.2	10.8
68	4.8	3.7	5.5

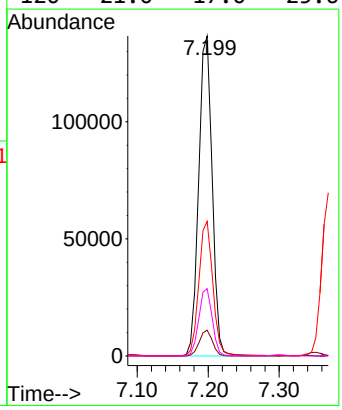


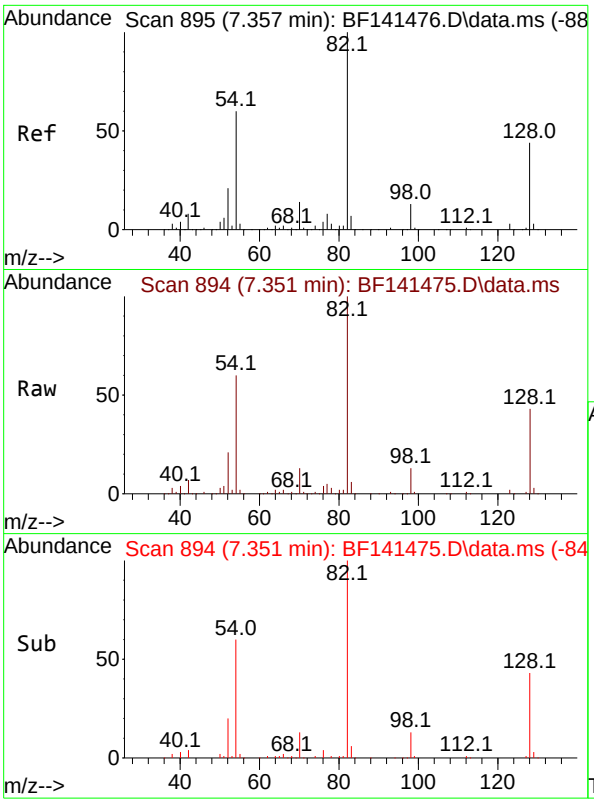


#22
Acetophenone
Concen: 20.946 ng
RT: 7.199 min Scan# 868
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:105 Resp: 181333

Ion	Ratio	Lower	Upper
105	100		
71	8.0	5.7	8.5
51	42.0	33.7	50.5
120	21.0	17.0	25.6



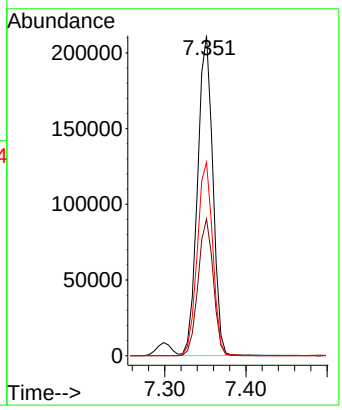


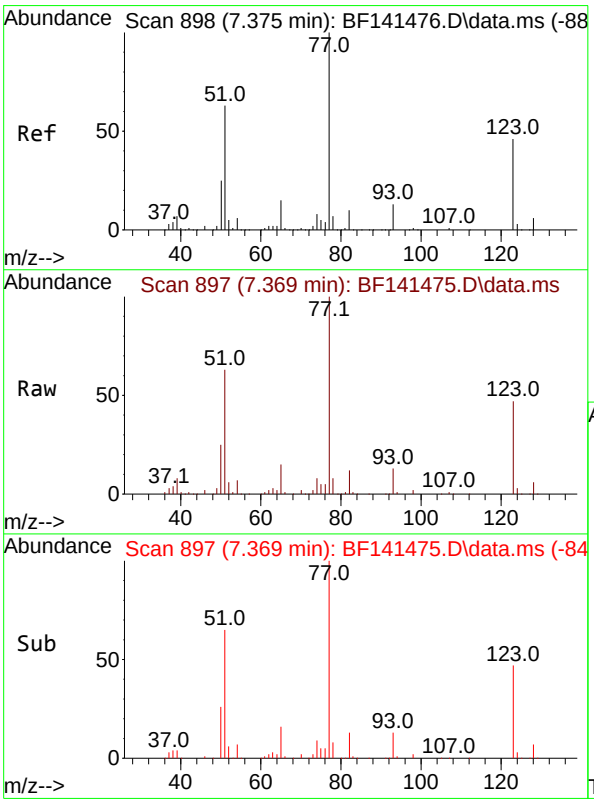
#23
Nitrobenzene-d5
Concen: 41.331 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 275773

Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.8	52.2
54	60.5	48.2	72.4

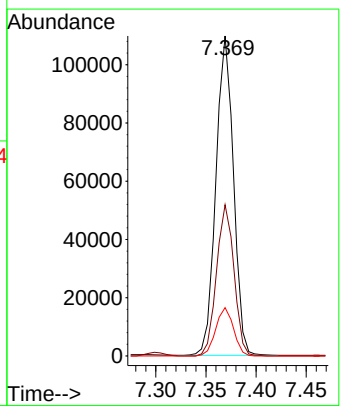


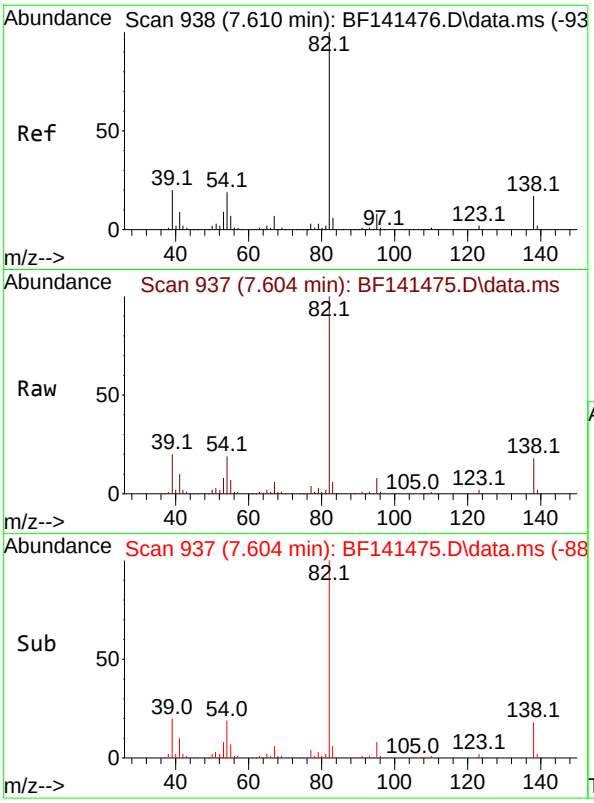


#24
Nitrobenzene
Concen: 20.485 ng
RT: 7.369 min Scan# 897
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 77 Resp: 133285

Ion	Ratio	Lower	Upper
77	100		
123	47.3	36.9	55.3
65	15.1	11.9	17.9



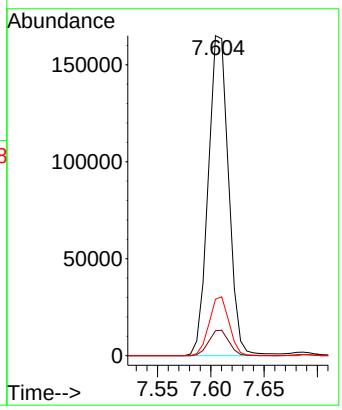


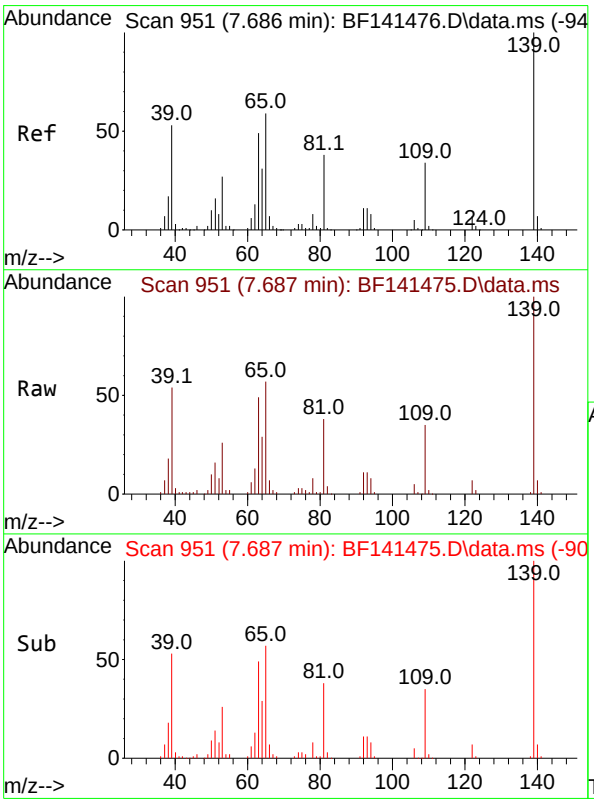
#25
Isophorone
Concen: 20.706 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 220291

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.4	9.6
138	17.6	13.9	20.9

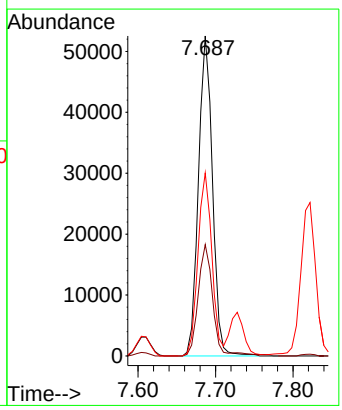


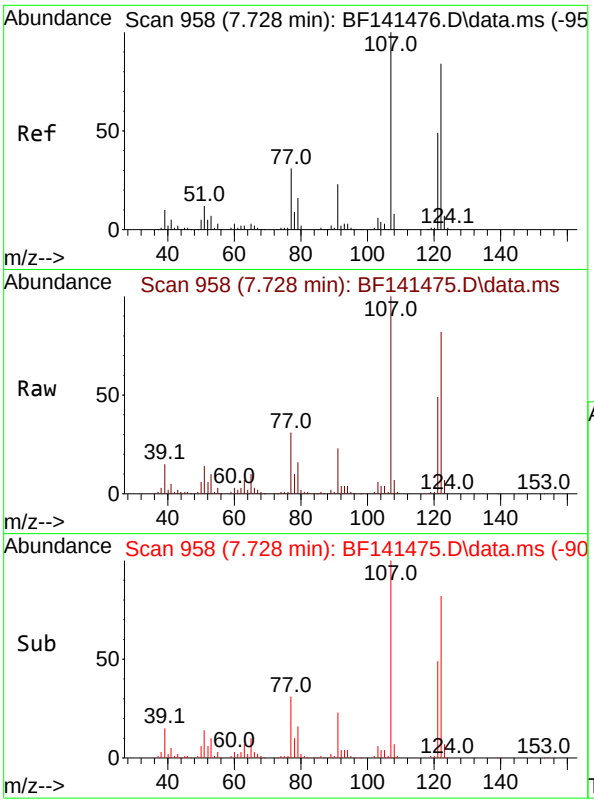


#26
2-Nitrophenol
Concen: 20.449 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 66195

Ion	Ratio	Lower	Upper
139	100		
109	34.8	27.0	40.6
65	57.2	47.1	70.7



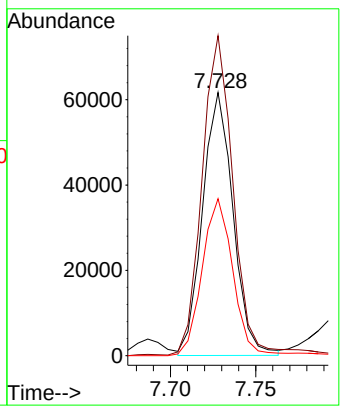


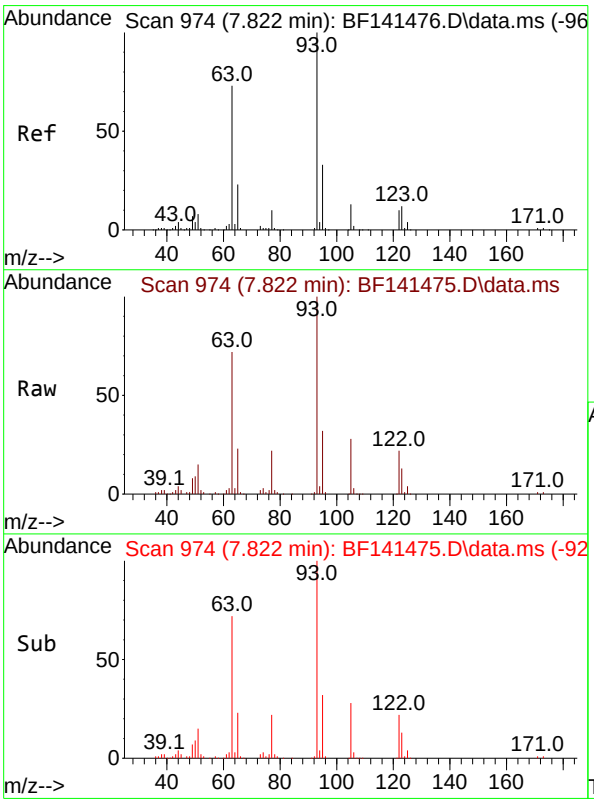
#27
2,4-Dimethylphenol
Concen: 20.296 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 76751

Ion	Ratio	Lower	Upper
122	100		
107	121.6	94.3	141.5
121	59.6	46.0	69.0

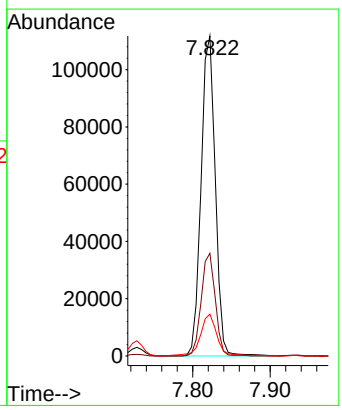


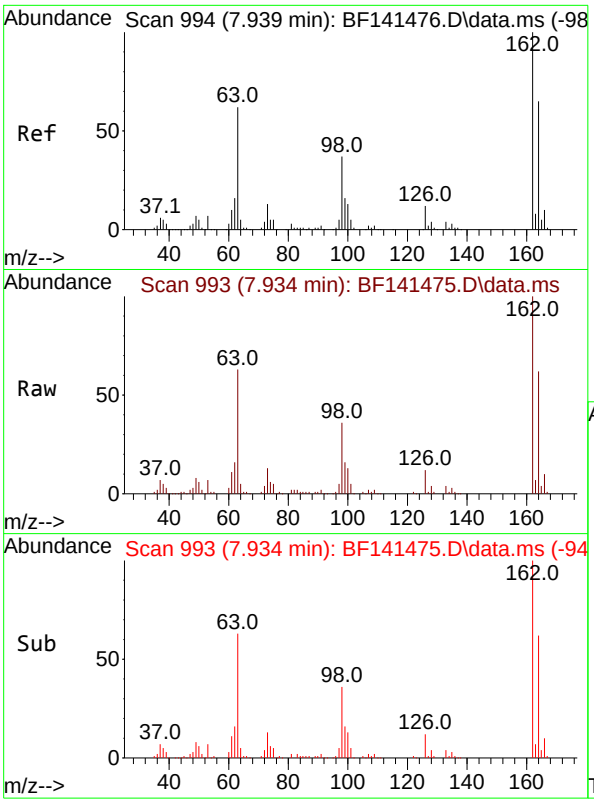


#28
bis(2-Chloroethoxy)methane
Concen: 20.852 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 93 Resp: 142151

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.1	39.1
123	13.0	9.5	14.3



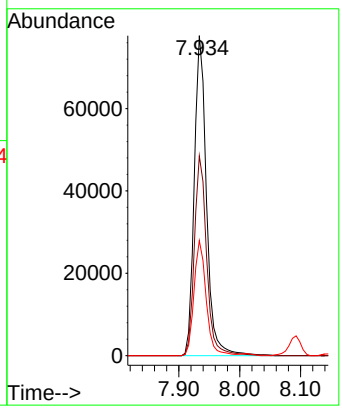


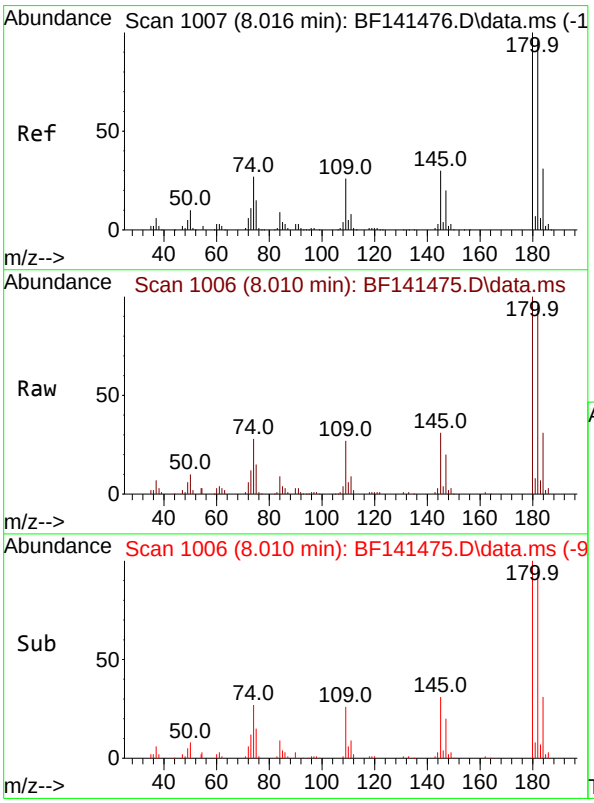
#29
2,4-Dichlorophenol
Concen: 21.227 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 108456

Ion	Ratio	Lower	Upper
162	100		
164	62.4	44.6	84.6
98	36.0	17.2	57.2

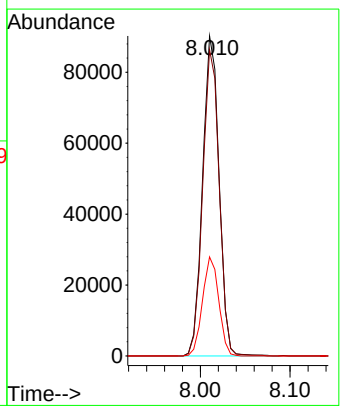


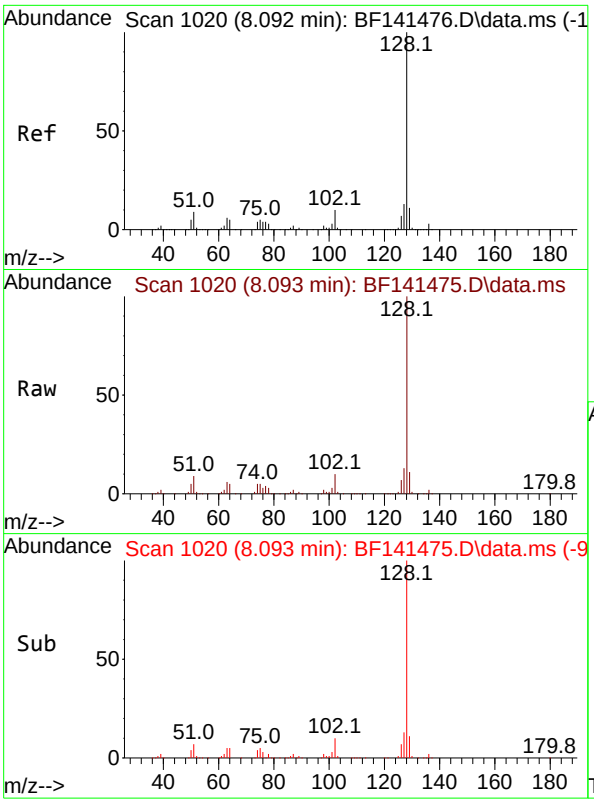


#30
1,2,4-Trichlorobenzene
Concen: 20.678 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:180 Resp: 115050

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	31.0	24.2	36.4



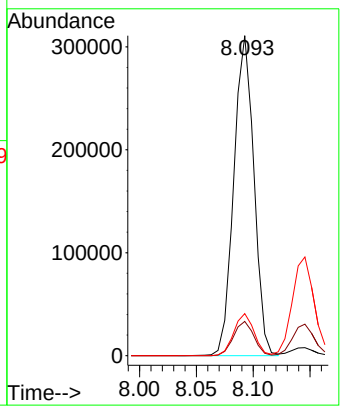


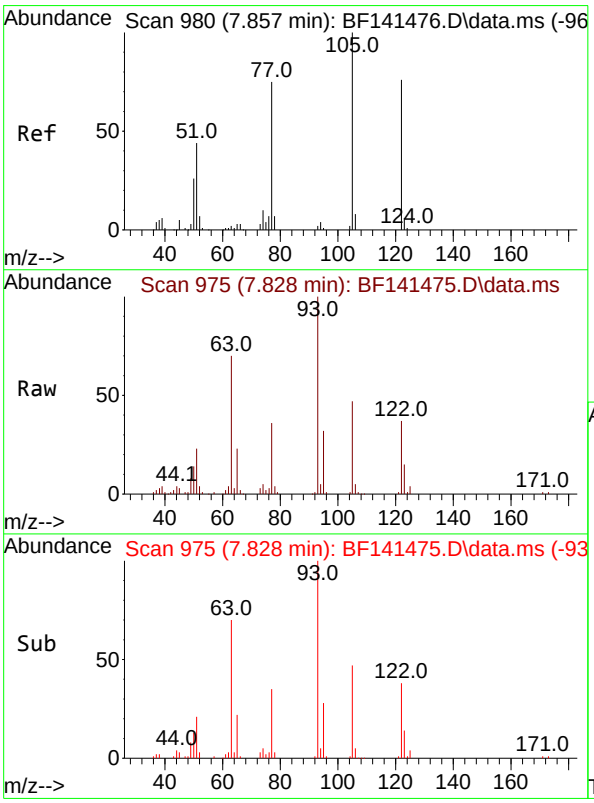
#31
Naphthalene
Concen: 21.062 ng
RT: 8.093 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 381547

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.9	13.3
127	13.2	10.7	16.1

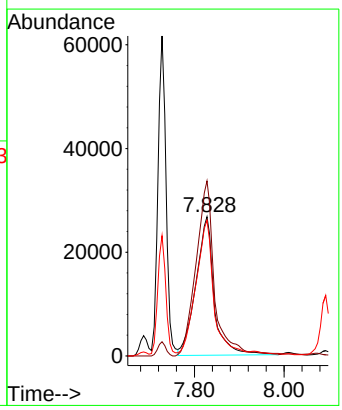


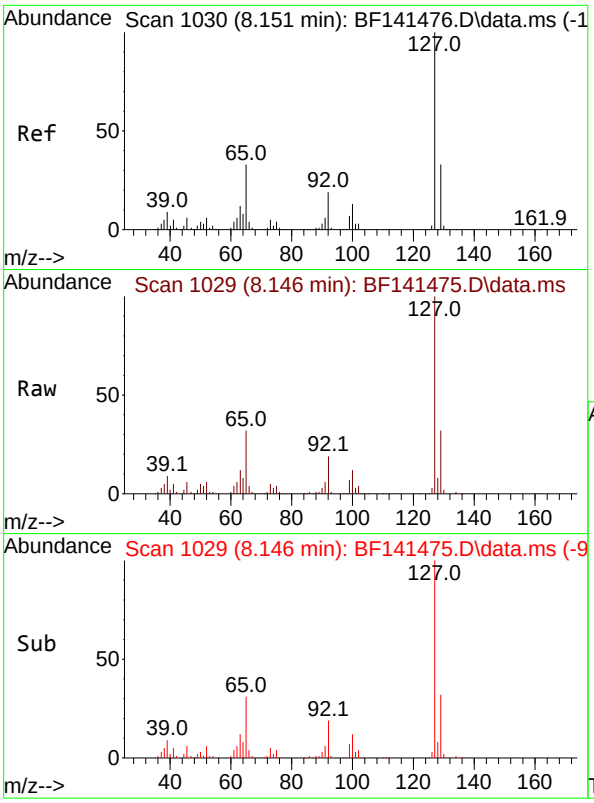


#32
Benzoic acid
Concen: 19.212 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.064 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:122 Resp: 75462

Ion	Ratio	Lower	Upper
122	100		
105	125.8	106.5	146.5
77	97.6	76.3	116.3



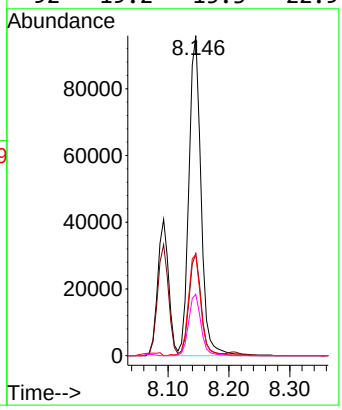


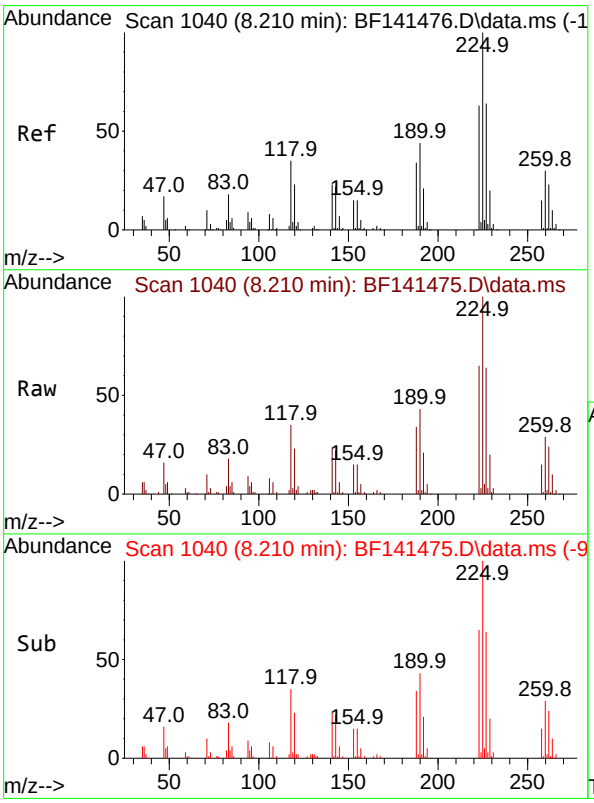
#33
4-Chloroaniline
Concen: 21.014 ng
RT: 8.146 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 132911

Ion	Ratio	Lower	Upper
127	100		
129	31.9	26.5	39.7
65	31.6	26.4	39.6
92	19.2	15.3	22.9

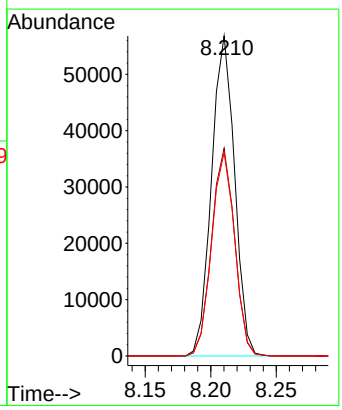


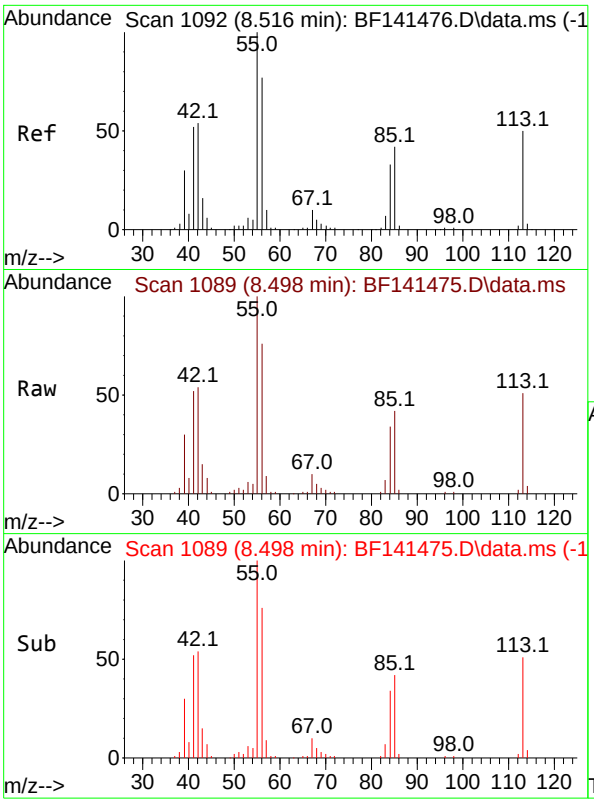


#34
Hexachlorobutadiene
Concen: 20.804 ng
RT: 8.210 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:225 Resp: 69492

Ion	Ratio	Lower	Upper
225	100		
223	64.9	50.1	75.1
227	63.5	51.0	76.6



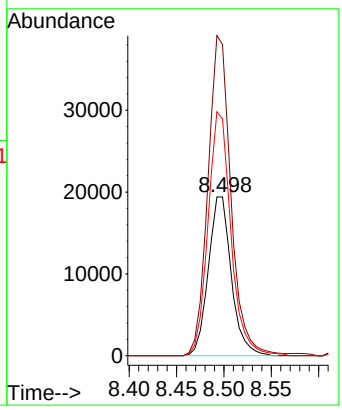


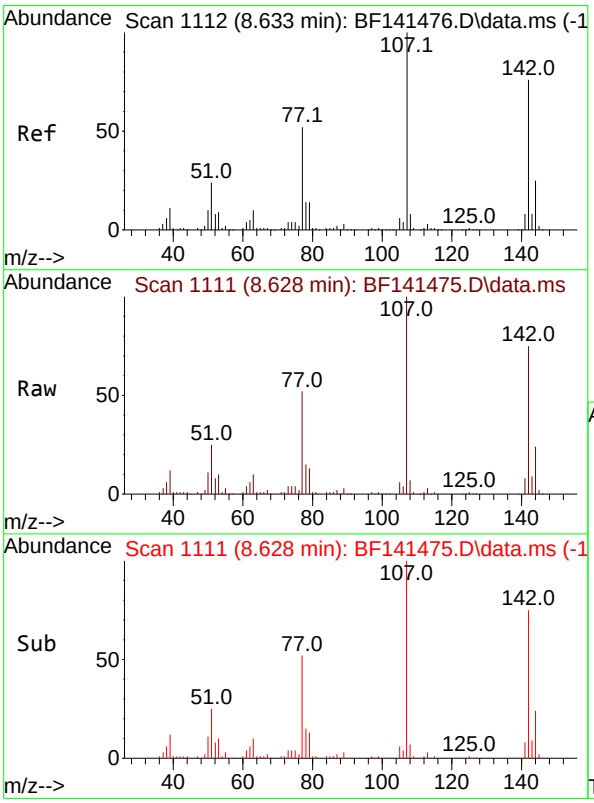
#35
Caprolactam
Concen: 21.050 ng
RT: 8.498 min Scan# 1
Delta R.T. -0.047 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 32746

Ion	Ratio	Lower	Upper
113	100		
55	196.0	180.8	220.8
56	149.2	133.6	173.6

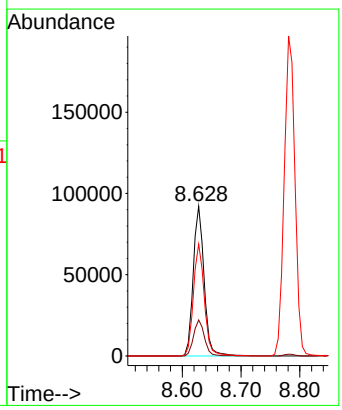


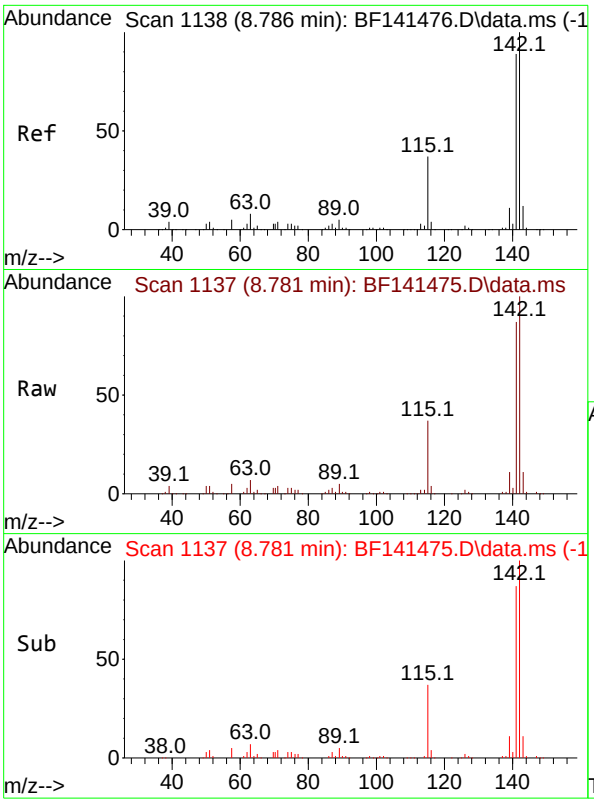


#36
4-Chloro-3-methylphenol
Concen: 21.029 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:107 Resp: 119021

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.7	29.5
142	74.7	60.8	91.2



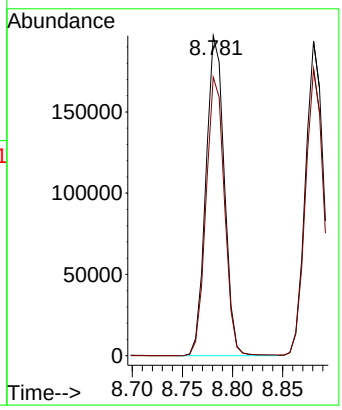


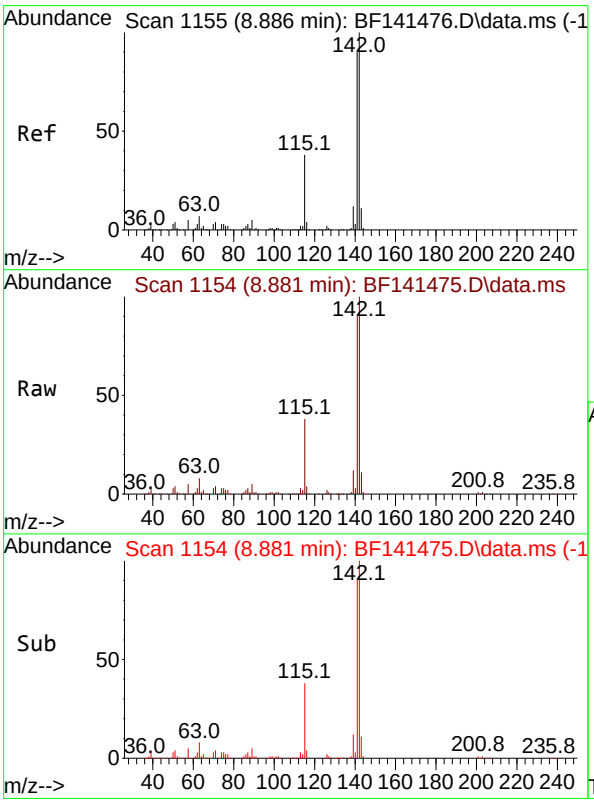
#37
2-Methylnaphthalene
Concen: 21.238 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 250365

Ion	Ratio	Lower	Upper
142	100		
141	87.0	71.2	106.8

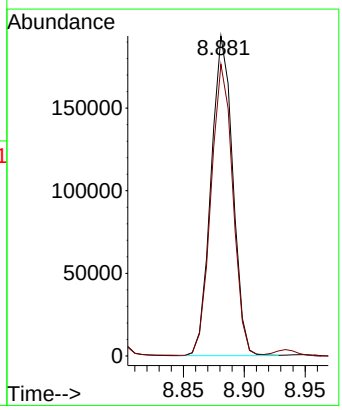


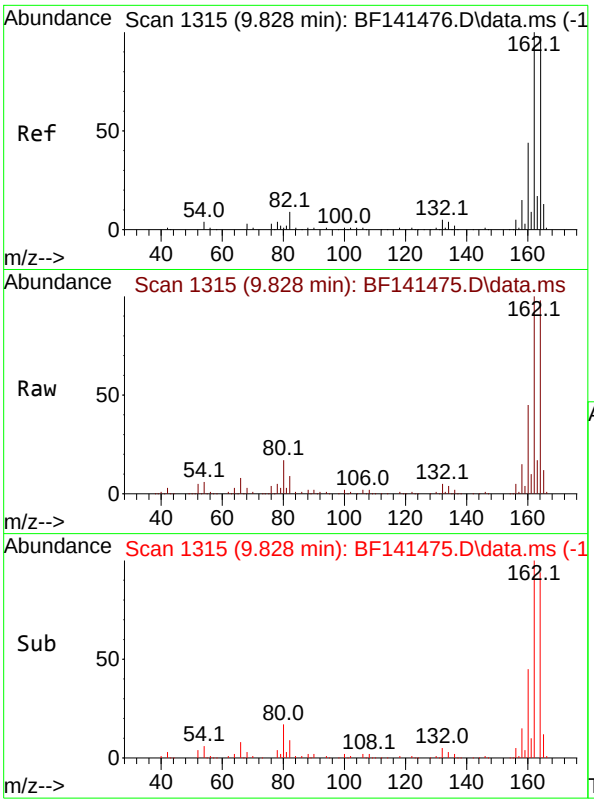


#38
1-Methylnaphthalene
Concen: 21.056 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:142 Resp: 240408

Ion	Ratio	Lower	Upper
142	100		
141	91.1	72.1	108.1



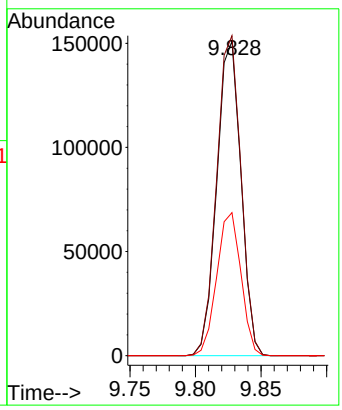


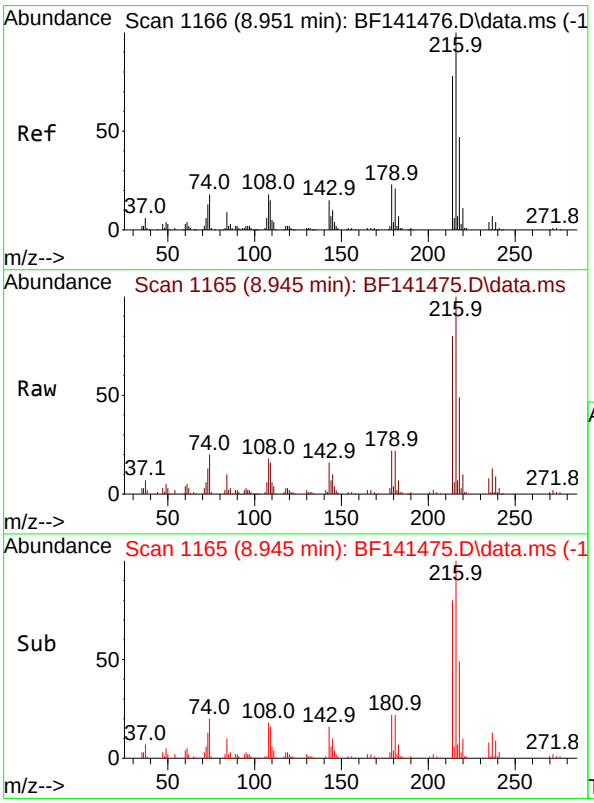
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 193091

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.3	121.9
160	45.5	35.9	53.9

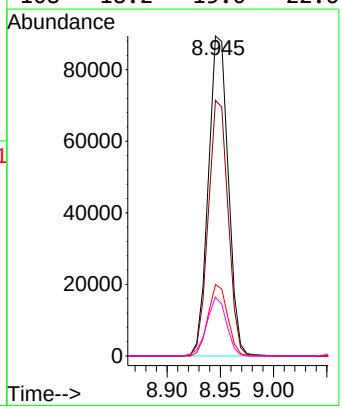


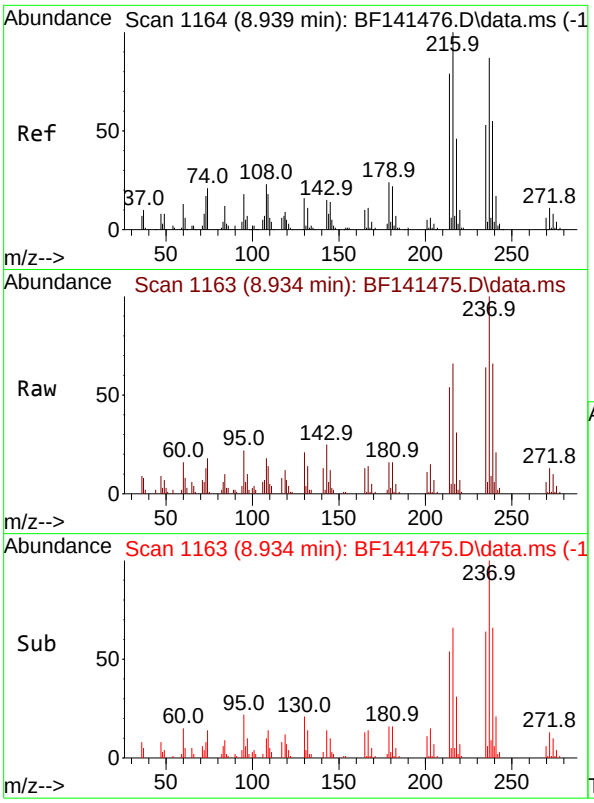


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.753 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:216 Resp: 115936

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	21.9	18.0	27.0
108	18.2	15.0	22.6



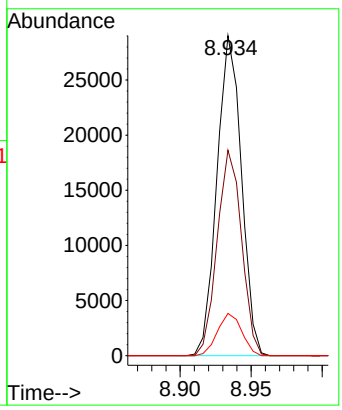


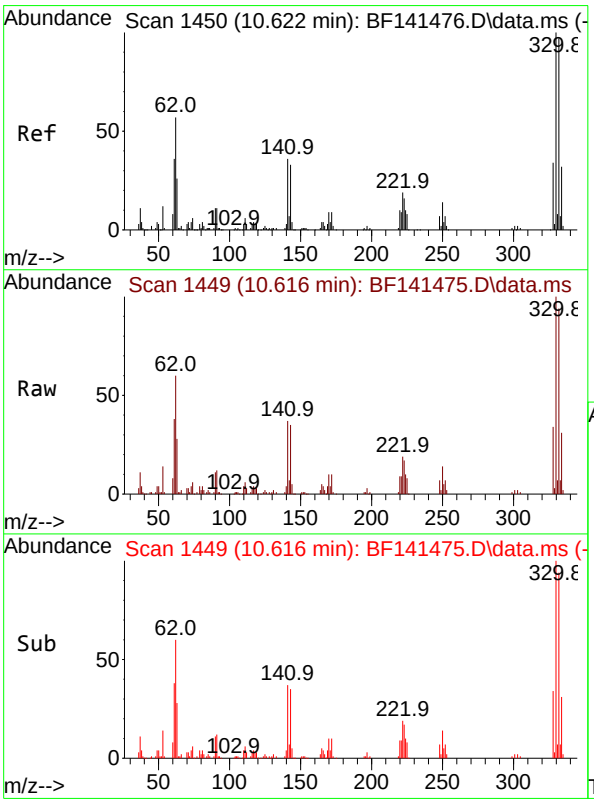
#41
Hexachlorocyclopentadiene
Concen: 18.691 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 34729

Ion	Ratio	Lower	Upper
237	100		
235	64.2	41.4	81.4
272	13.2	0.0	32.4

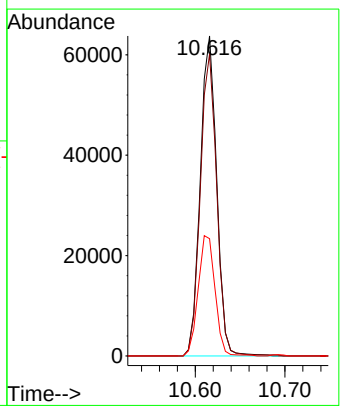


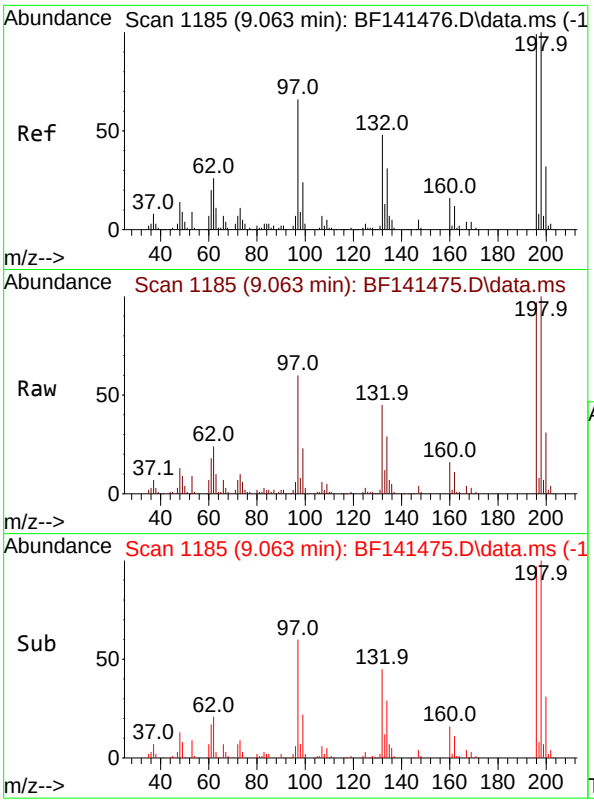


#42
2,4,6-Tribromophenol
Concen: 41.714 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:330 Resp: 80912

Ion	Ratio	Lower	Upper
330	100		
332	94.7	78.5	117.7
141	38.7	31.0	46.4



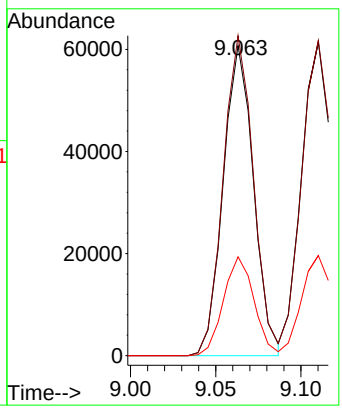


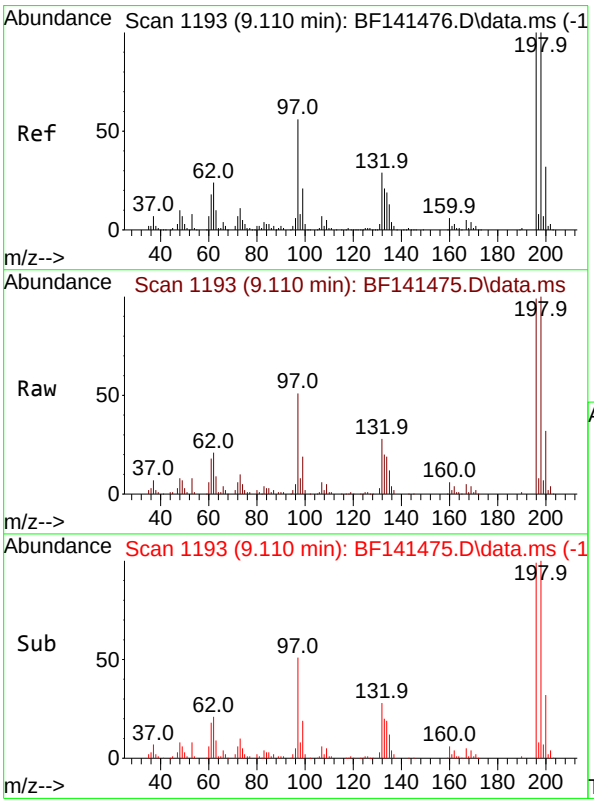
#43
2,4,6-Trichlorophenol
Concen: 20.817 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 75161

Ion	Ratio	Lower	Upper
196	100		
198	103.2	80.6	121.0
200	31.9	25.5	38.3

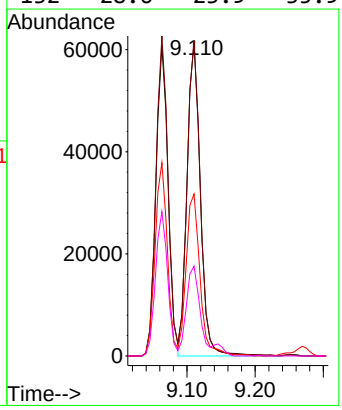


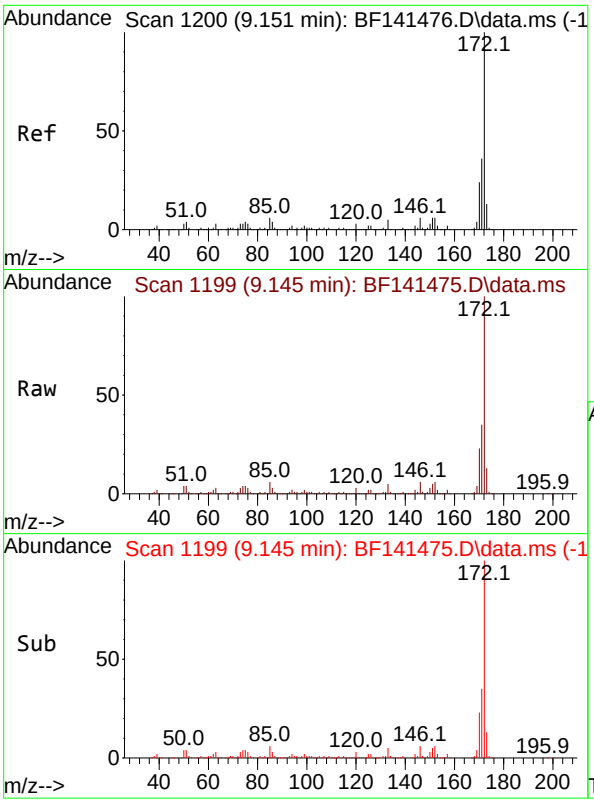


#44
2,4,5-Trichlorophenol
Concen: 21.240 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:196 Resp: 83112

Ion	Ratio	Lower	Upper
196	100		
198	100.6	79.8	119.8
97	51.7	44.8	67.2
132	28.6	23.9	35.9



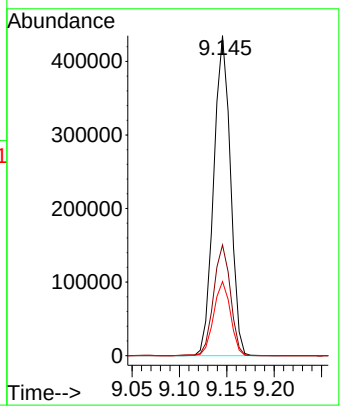


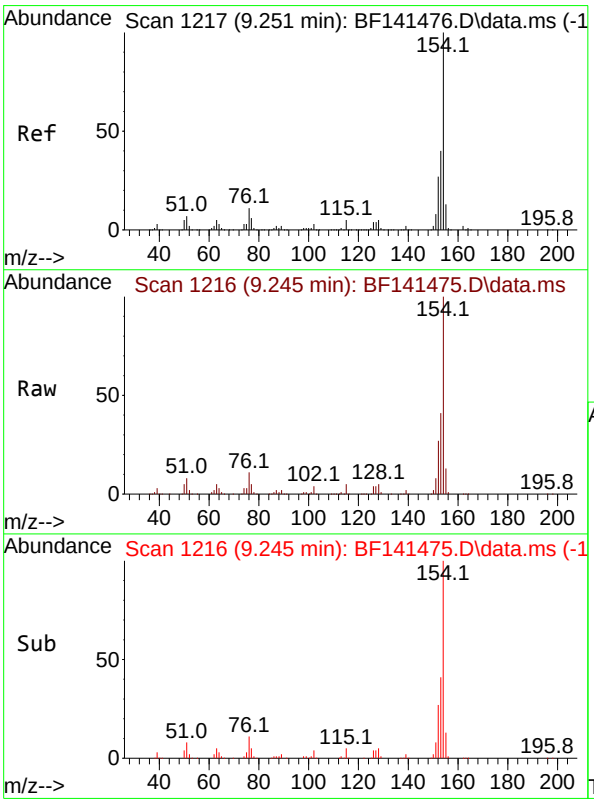
#45
2-Fluorobiphenyl
Concen: 42.674 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 534841

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.7	43.1
170	23.1	18.9	28.3

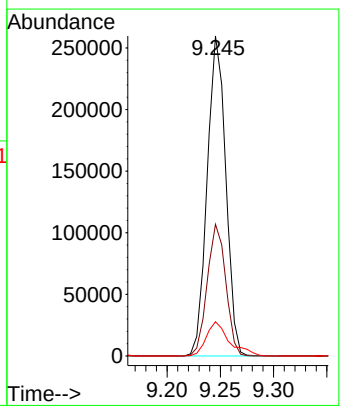


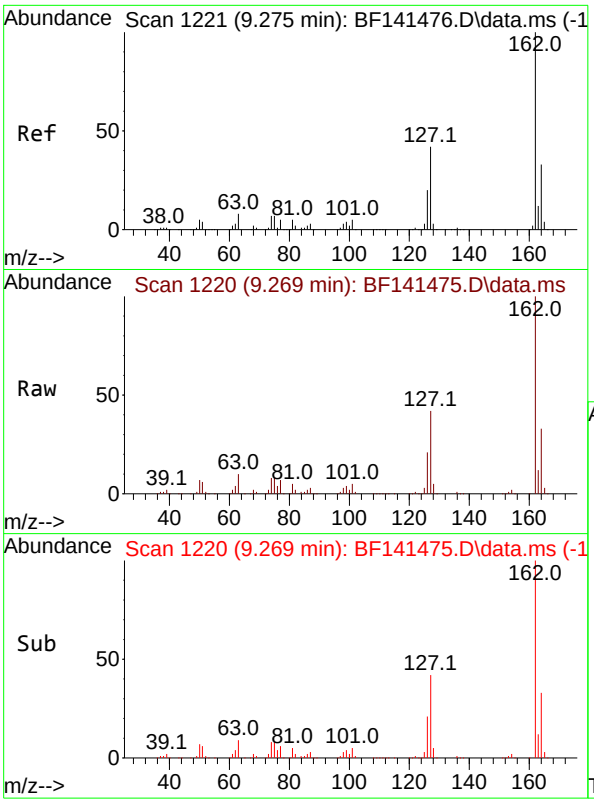


#46
1,1'-Biphenyl
Concen: 21.045 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 315040

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.4	60.4
76	10.7	0.0	30.8



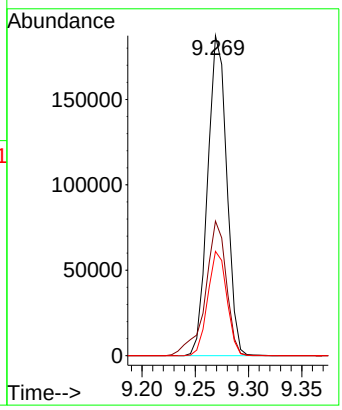


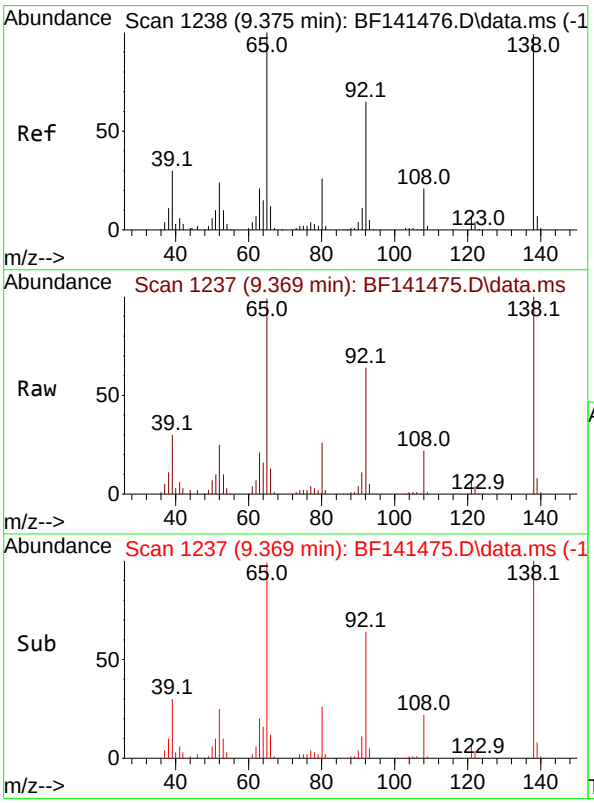
#47
2-Chloronaphthalene
Concen: 21.119 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 233789

Ion	Ratio	Lower	Upper
162	100		
127	42.1	34.1	51.1
164	32.6	26.3	39.5

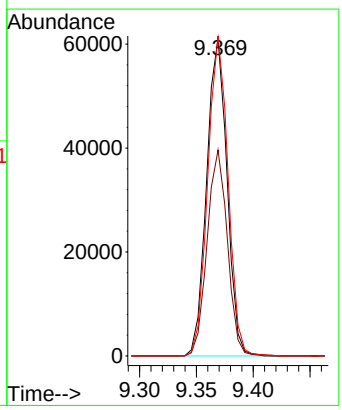


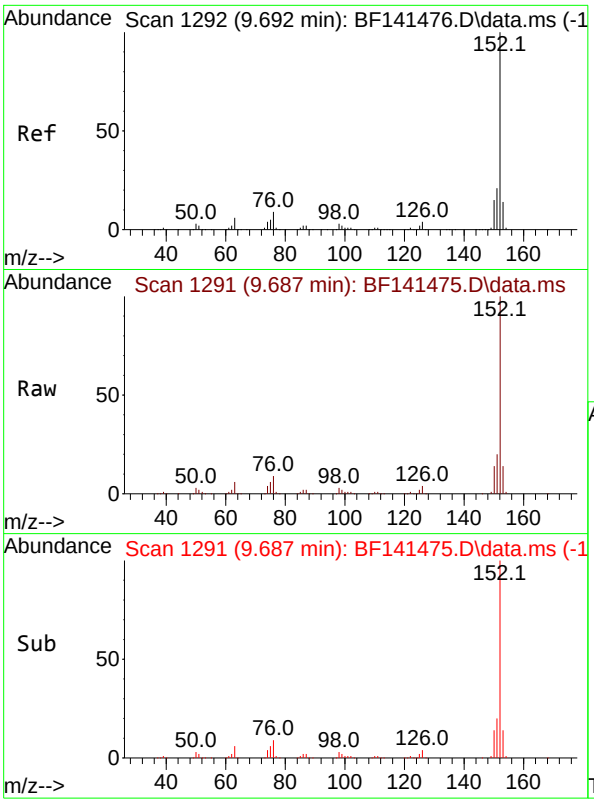


#48
2-Nitroaniline
Concen: 20.455 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion: 65 Resp: 75990

Ion	Ratio	Lower	Upper
65	100		
92	64.8	52.2	78.2
138	100.7	79.5	119.3



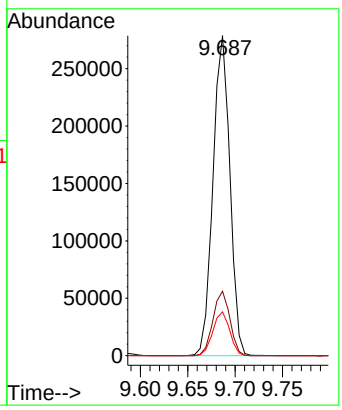


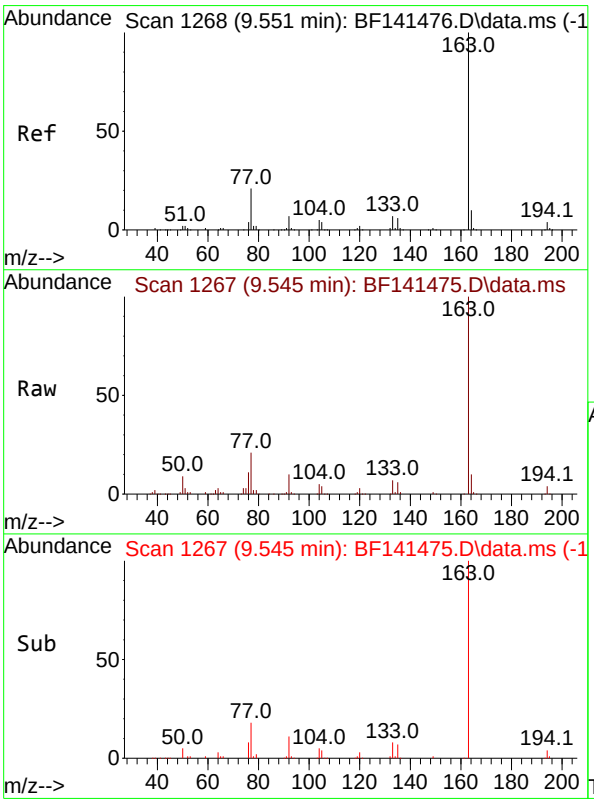
#49
Acenaphthylene
Concen: 21.004 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 345829

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.7	10.9	16.3

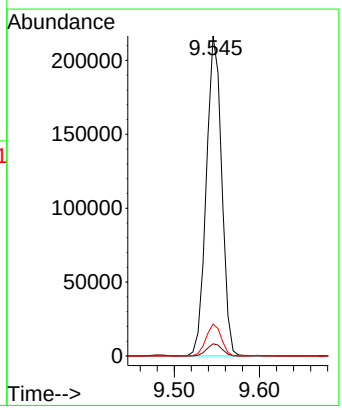


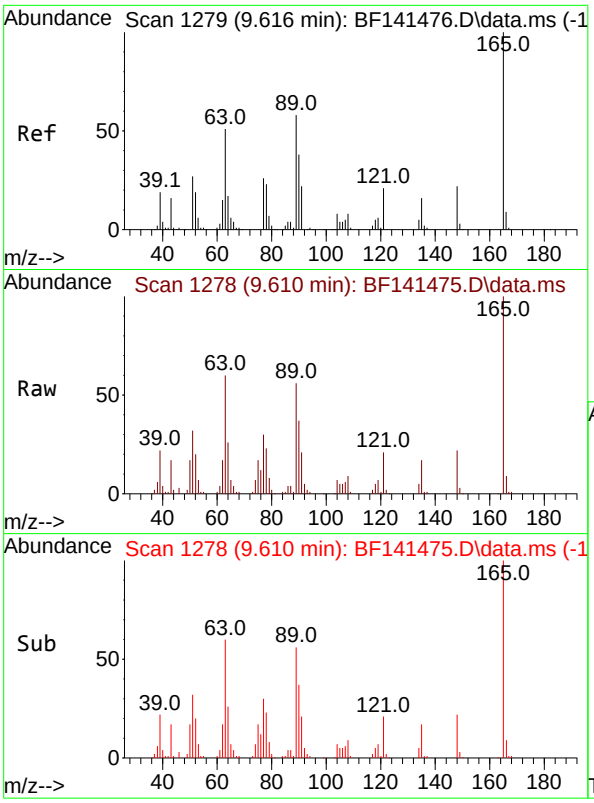


#50
Dimethylphthalate
Concen: 20.744 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:163 Resp: 271920

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.0	7.9	11.9



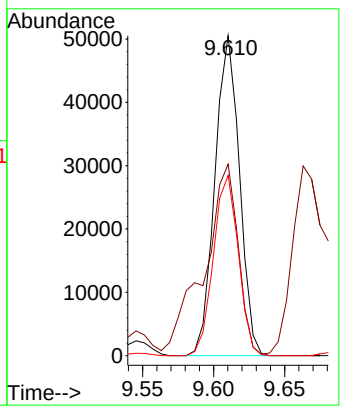


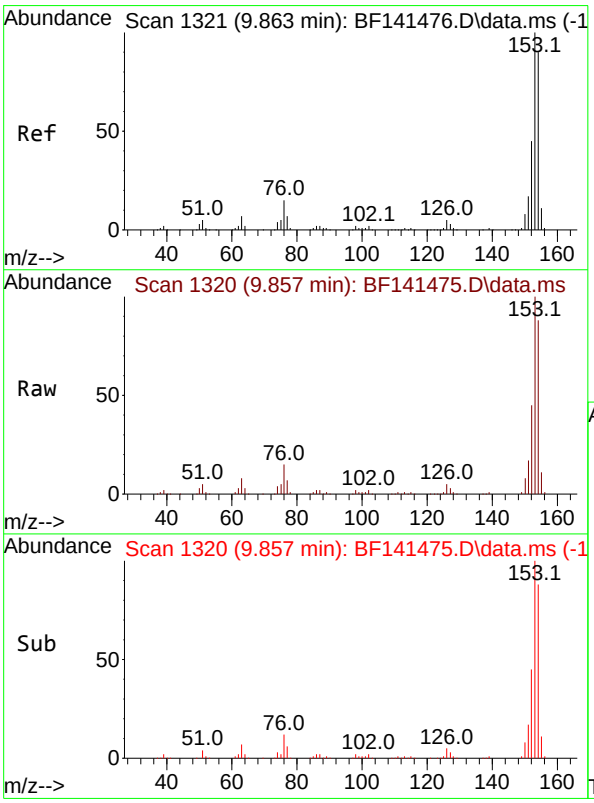
#51
2,6-Dinitrotoluene
Concen: 21.182 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 60700

Ion	Ratio	Lower	Upper
165	100		
63	59.8	49.4	74.0
89	56.3	46.5	69.7

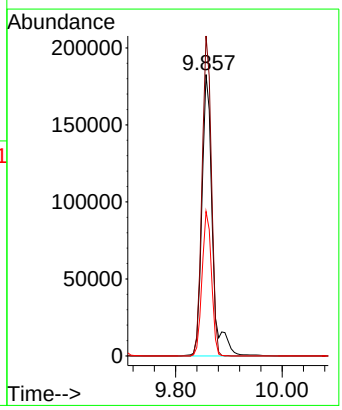


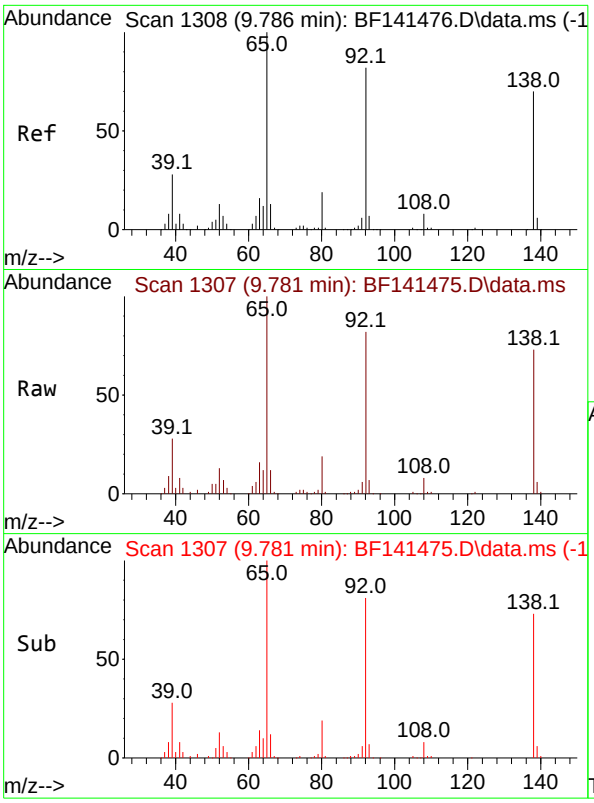


#52
Acenaphthene
Concen: 22.456 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:154 Resp: 248578

Ion	Ratio	Lower	Upper
154	100		
153	113.7	89.2	133.8
152	51.3	39.8	59.8



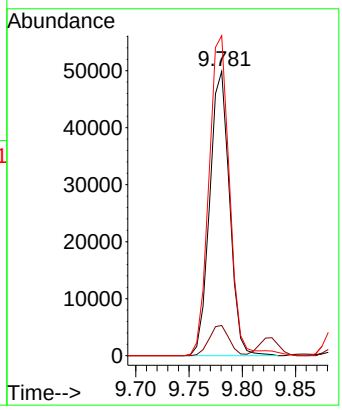


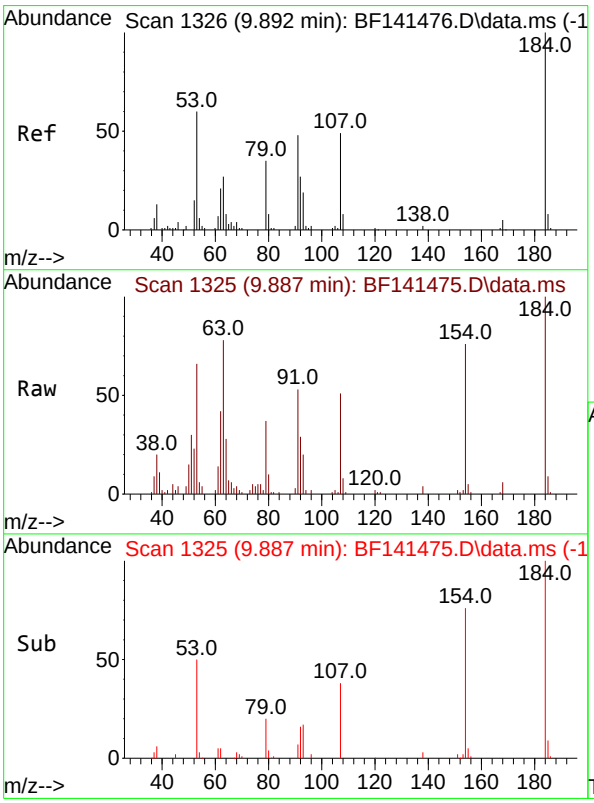
#53
3-Nitroaniline
Concen: 20.954 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 64626

Ion	Ratio	Lower	Upper
138	100		
108	10.6	9.0	13.4
92	112.5	93.7	140.5

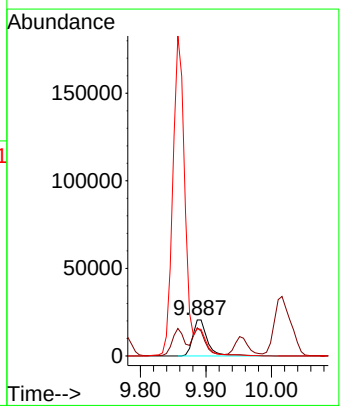


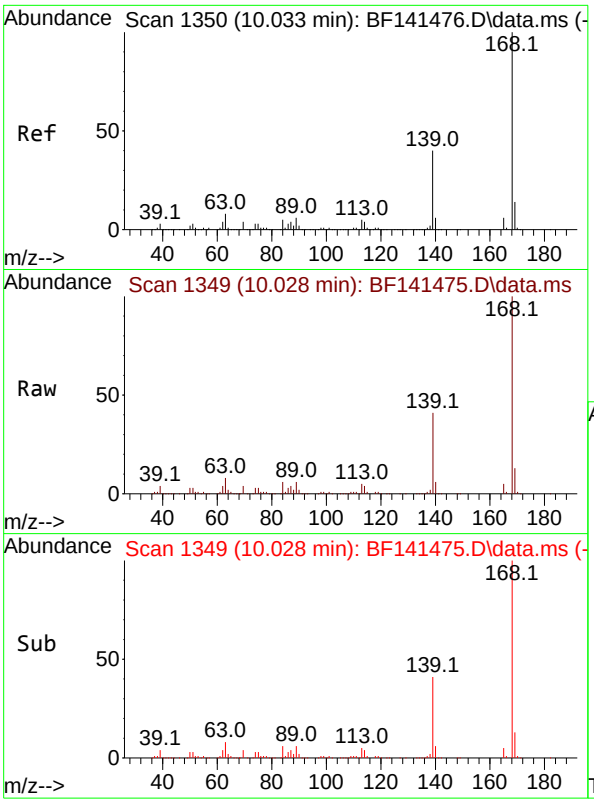


#54
2,4-Dinitrophenol
Concen: 18.898 ng
RT: 9.887 min Scan# 1325
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:184 Resp: 32186

Ion	Ratio	Lower	Upper
184	100		
63	78.3	61.0	91.6
154	75.8	59.9	89.9



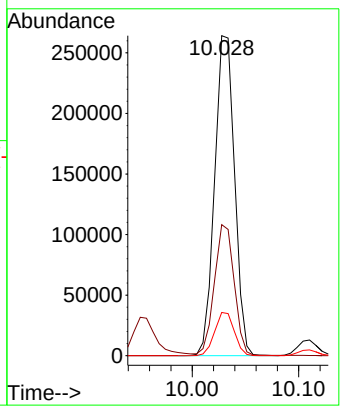


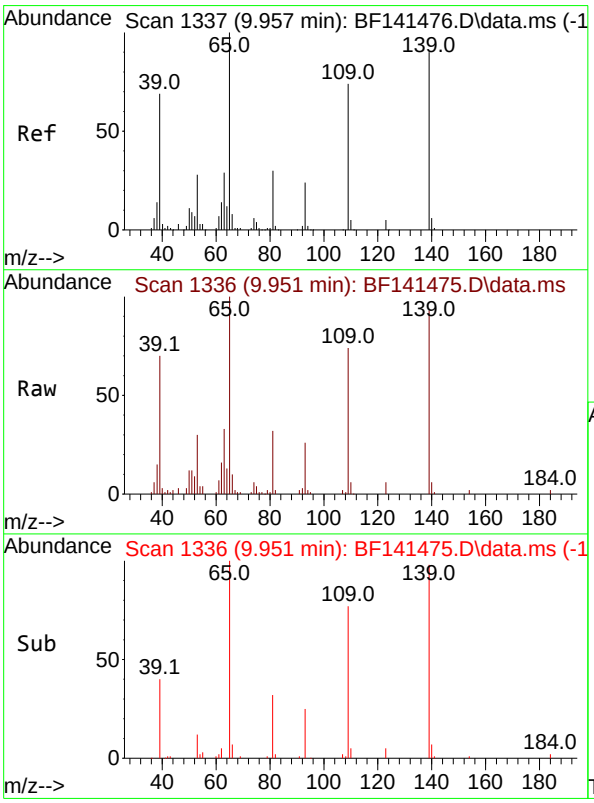
#55
Dibenzofuran
Concen: 21.087 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 342620

Ion	Ratio	Lower	Upper
168	100		
139	40.9	32.7	49.1
169	13.5	10.8	16.2

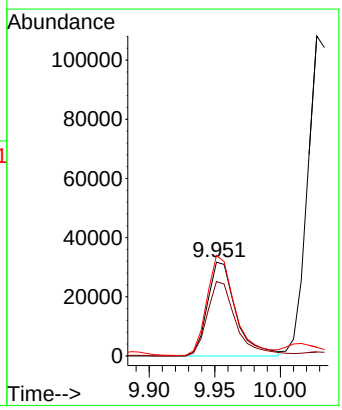


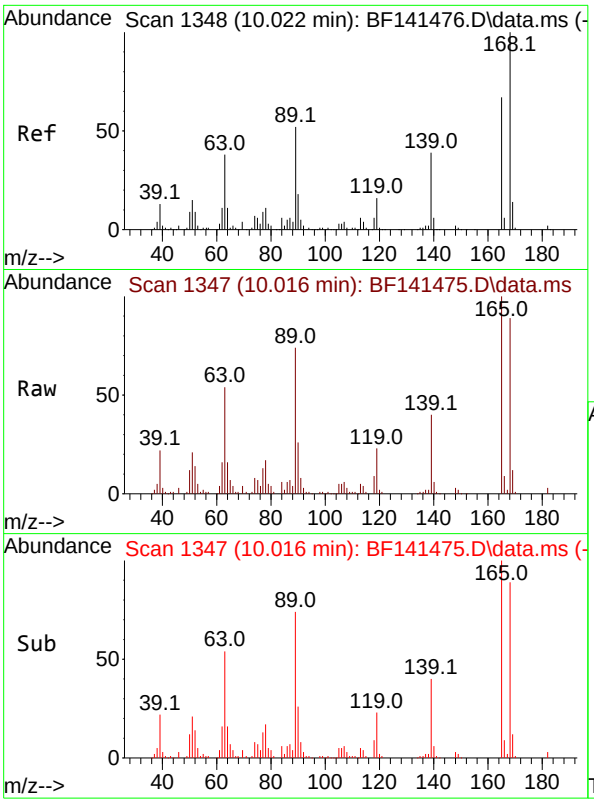


#56
4-Nitrophenol
Concen: 20.843 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.018 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:139 Resp: 47721

Ion	Ratio	Lower	Upper
139	100		
109	79.3	62.0	102.0
65	107.1	91.2	131.2



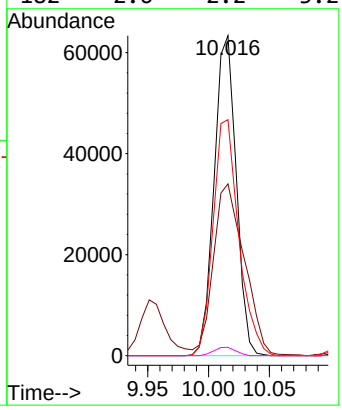


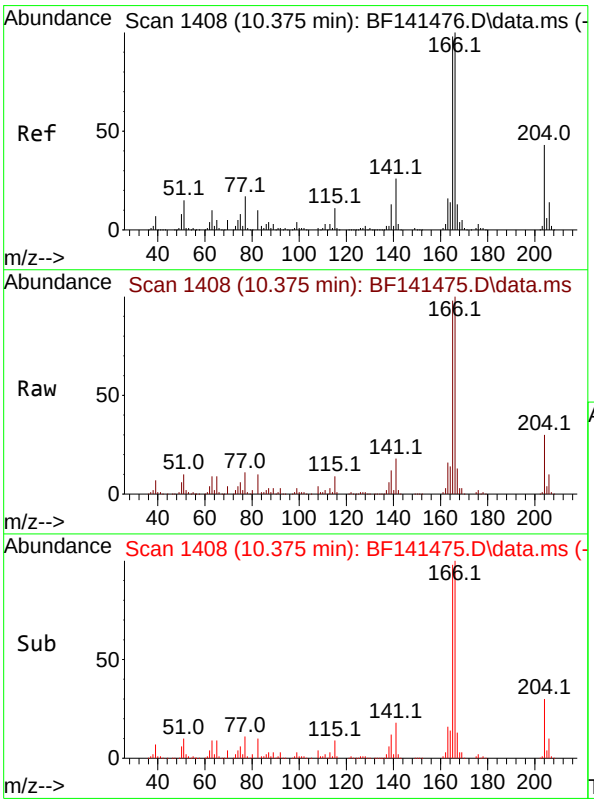
#57
2,4-Dinitrotoluene
Concen: 20.936 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 79865

Ion	Ratio	Lower	Upper
165	100		
63	53.7	46.4	69.6
89	73.8	61.8	92.6
182	2.6	2.2	3.2

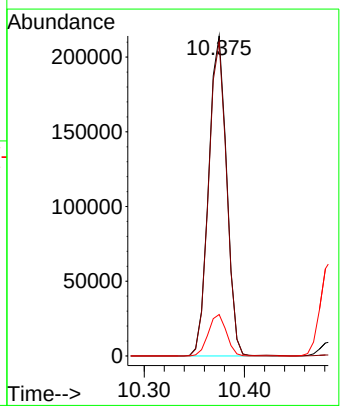


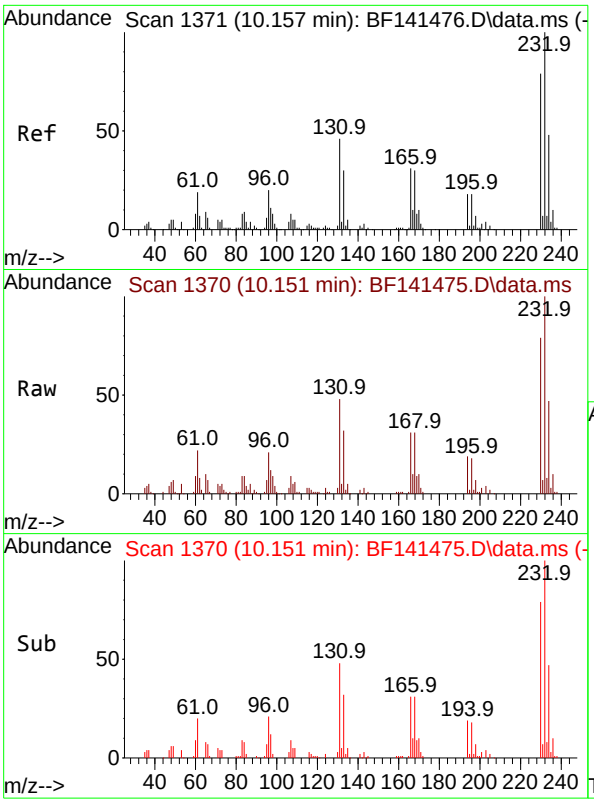


#58
Fluorene
Concen: 21.159 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:166 Resp: 265810

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.2	117.2
167	13.0	10.7	16.1



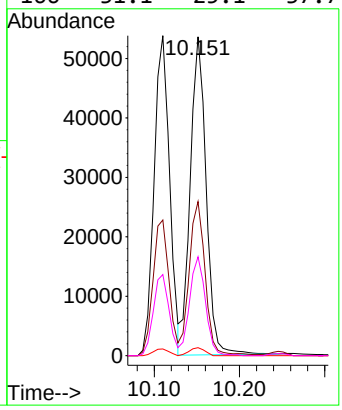


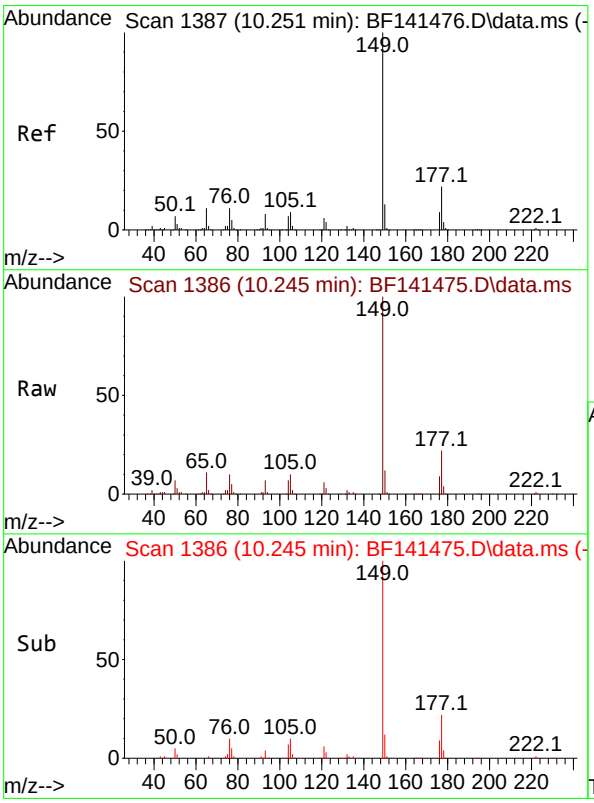
#59
2,3,4,6-Tetrachlorophenol
Concen: 20.579 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 69328

Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.2	58.8
130	2.4	2.1	3.1
166	31.1	25.1	37.7

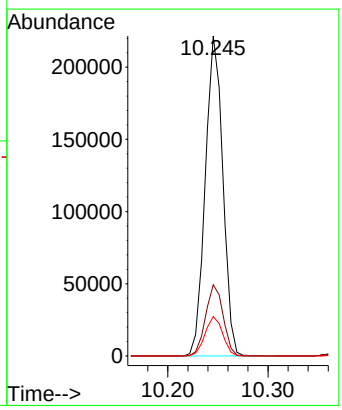


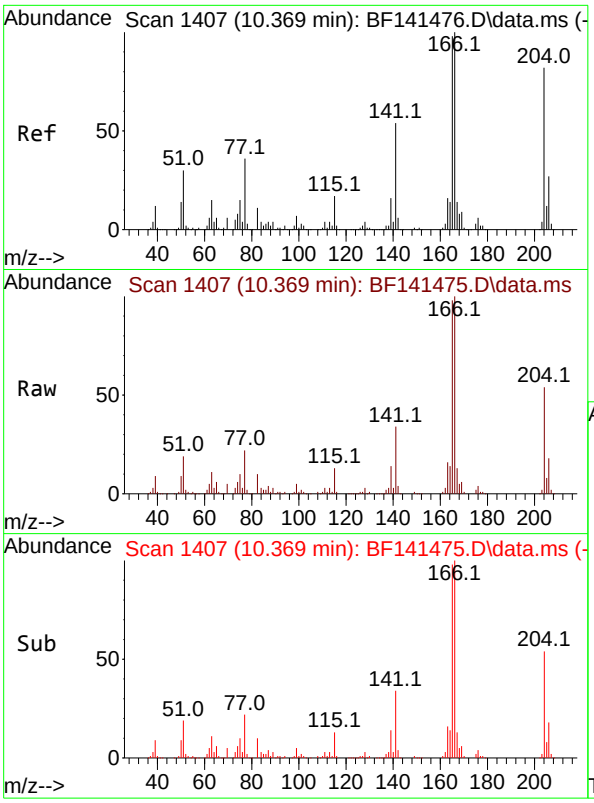


#60
Diethylphthalate
Concen: 20.936 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 270018

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.8	26.6
150	12.3	10.1	15.1



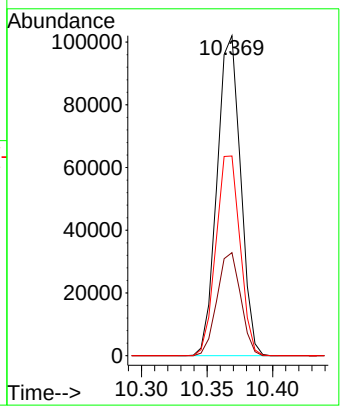


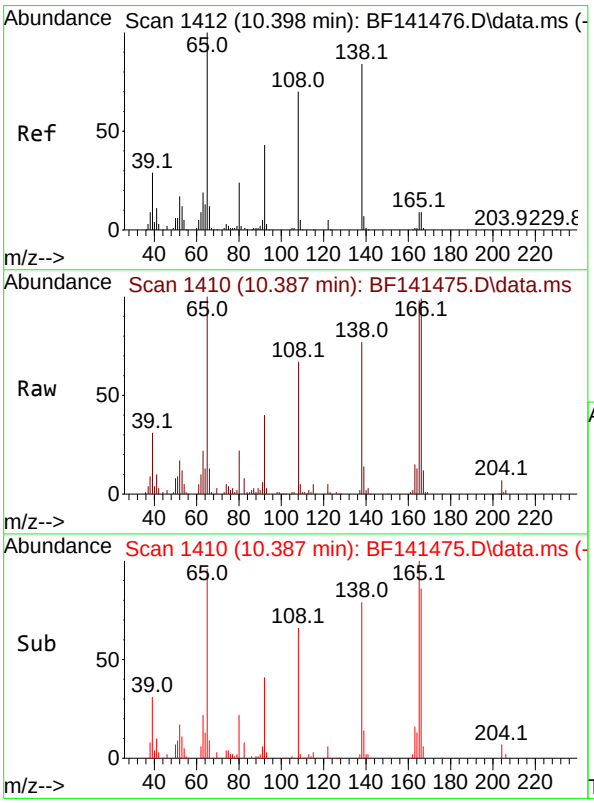
#61
4-Chlorophenyl-phenylether
Concen: 21.049 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 127216

Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.6	40.0
141	62.4	51.9	77.9

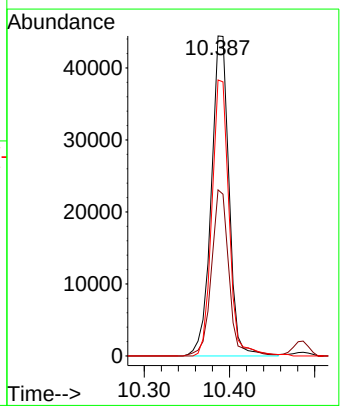


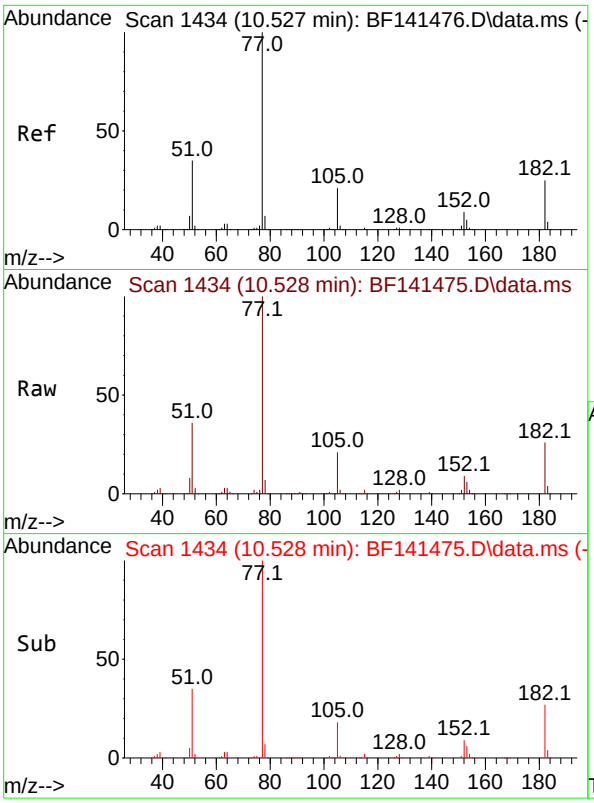


#62
4-Nitroaniline
Concen: 20.519 ng
RT: 10.387 min Scan# 1410
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:138 Resp: 64262

Ion	Ratio	Lower	Upper
138	100		
92	51.9	31.3	71.3
108	86.2	63.7	103.7



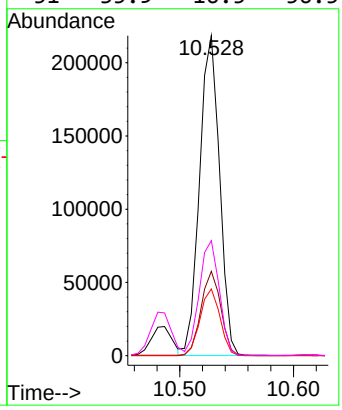


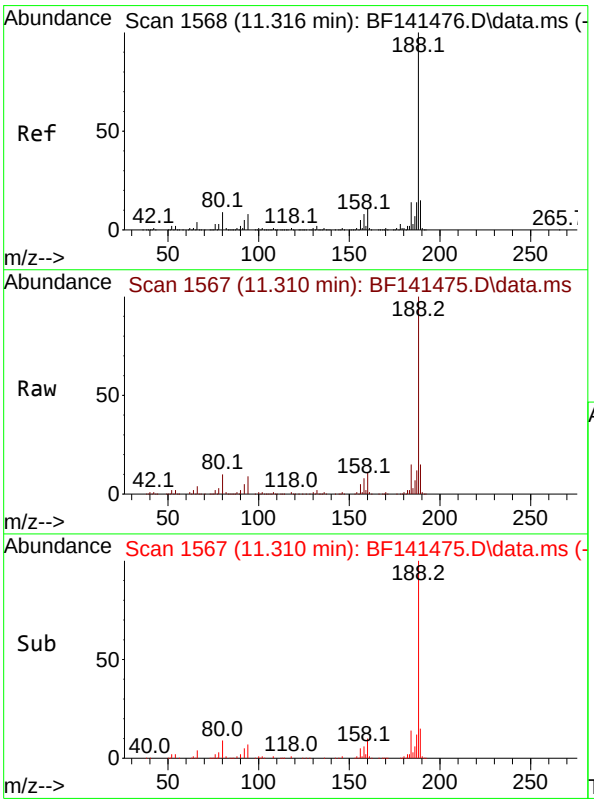
#63
Azobenzene
Concen: 20.853 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 267372

Ion	Ratio	Lower	Upper
77	100		
182	26.4	4.7	44.7
105	20.9	0.4	40.4
51	35.9	16.5	56.5

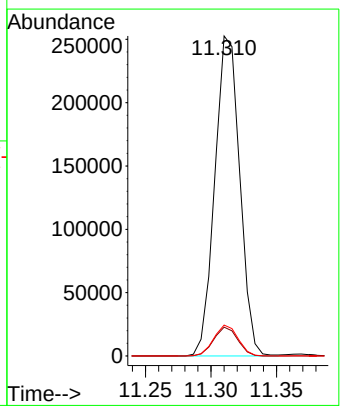


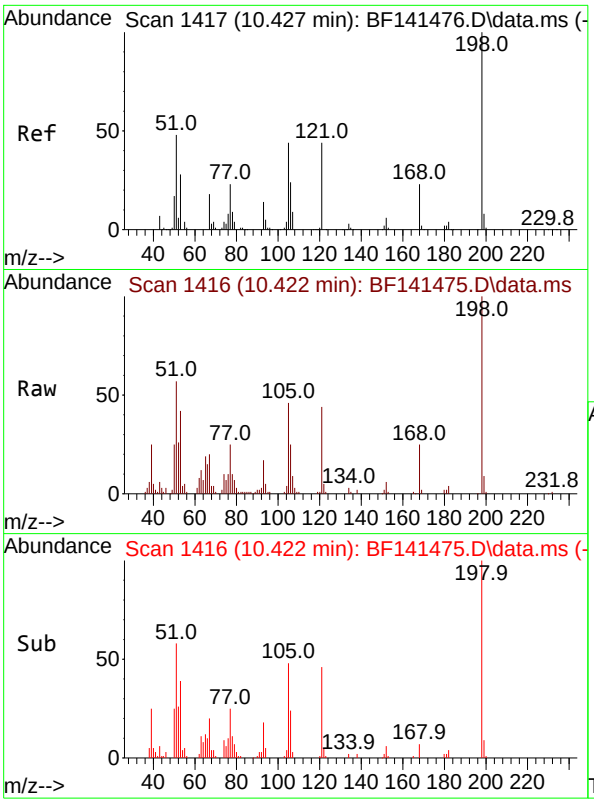


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:188 Resp: 333651

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.6	10.0
80	9.7	7.3	10.9



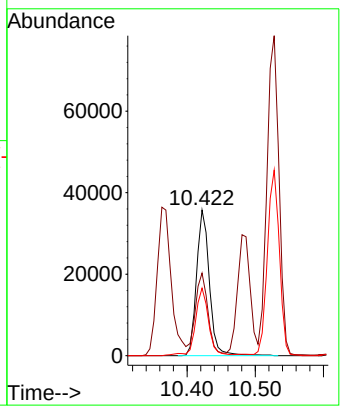


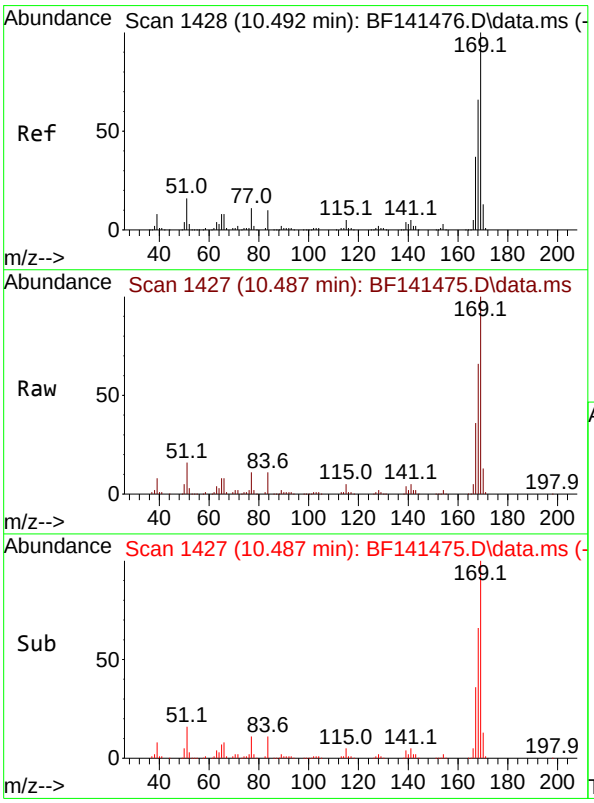
#65
4,6-Dinitro-2-methylphenol
Concen: 20.226 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 46877

Ion	Ratio	Lower	Upper
198	100		
51	56.7	37.4	77.4
105	46.4	25.2	65.2

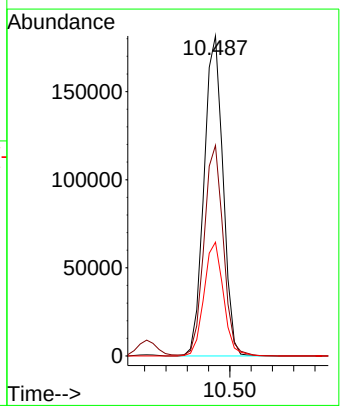


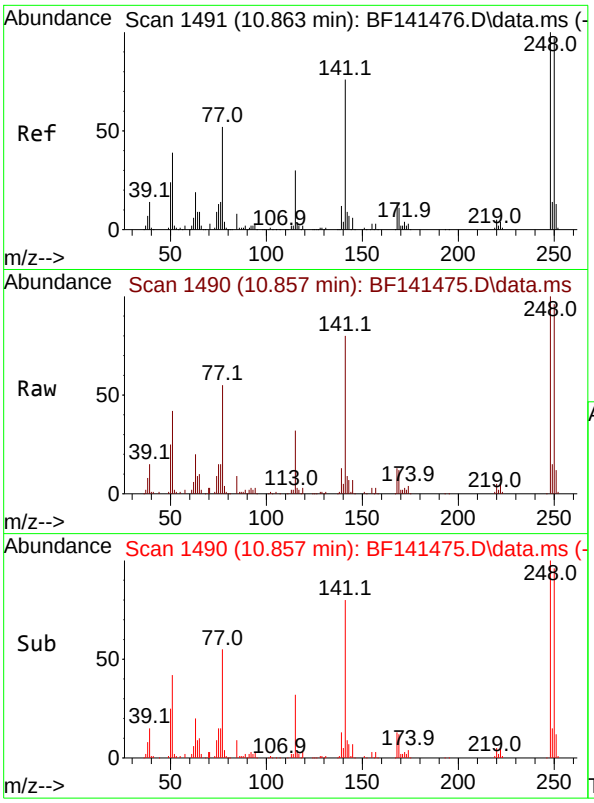


#66
n-Nitrosodiphenylamine
Concen: 21.045 ng
RT: 10.487 min Scan# 1427
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:169 Resp: 224776

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.3	79.9
167	35.6	29.4	44.2



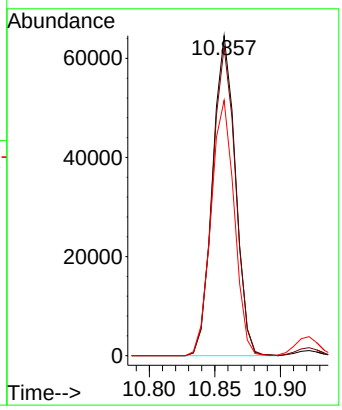


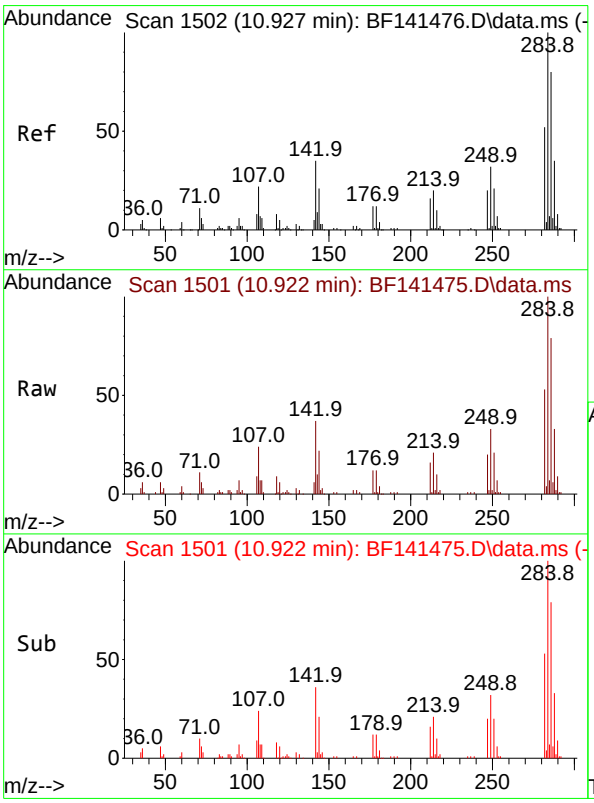
#67
4-Bromophenyl-phenylether
Concen: 20.962 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 78167

Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.8	116.6
141	79.8	60.6	90.8

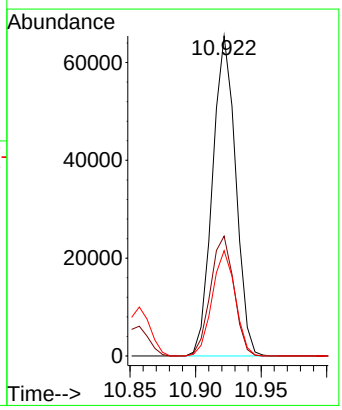


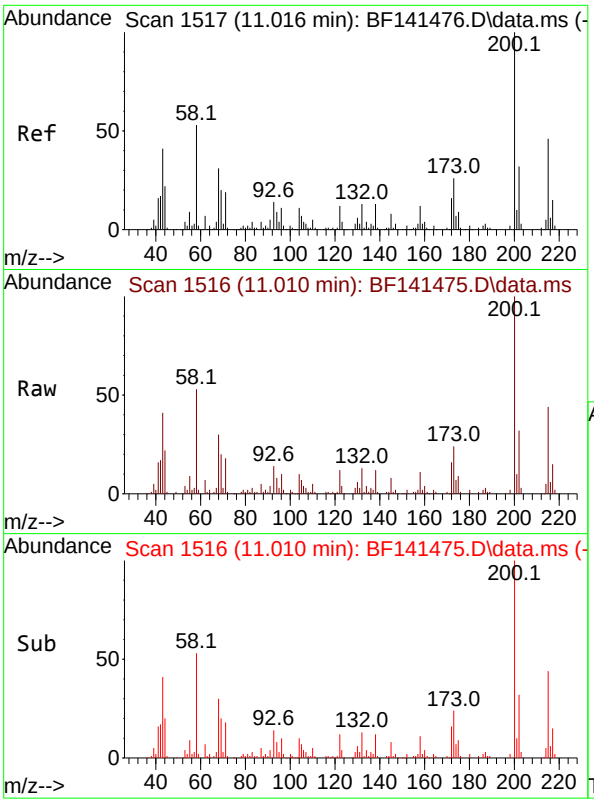


#68
Hexachlorobenzene
Concen: 20.913 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:284 Resp: 80301

Ion	Ratio	Lower	Upper
284	100		
142	37.5	28.0	42.0
249	32.9	25.8	38.8



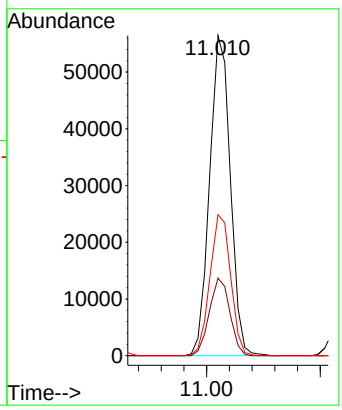


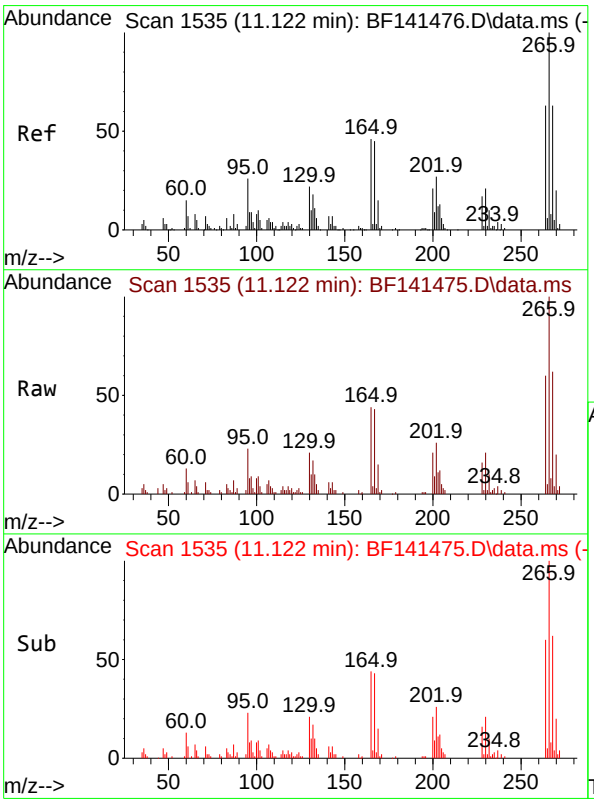
#69
Atrazine
Concen: 22.271 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 71359

Ion	Ratio	Lower	Upper
200	100		
173	24.3	5.9	45.9
215	44.1	25.9	65.9

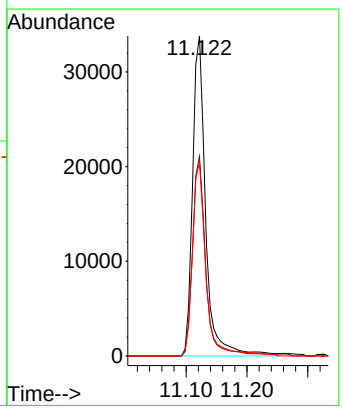


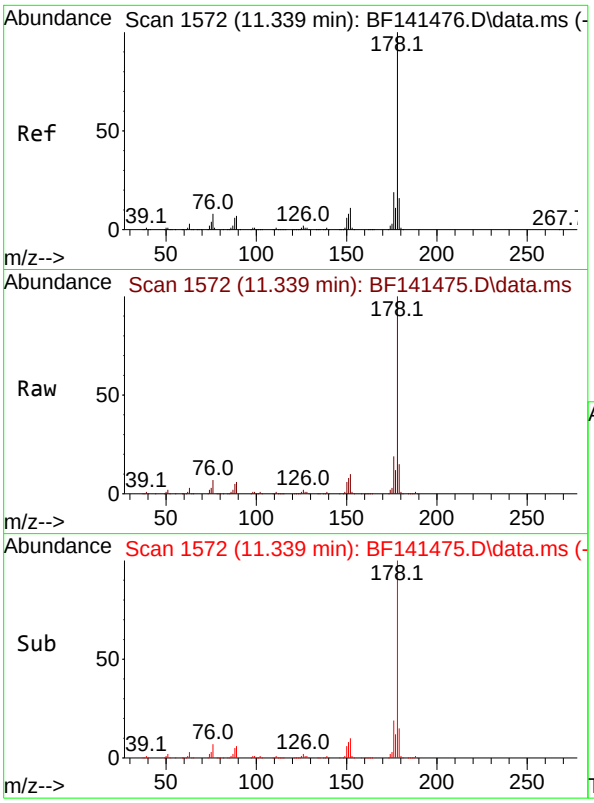


#70
Pentachlorophenol
Concen: 20.584 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:266 Resp: 50539

Ion	Ratio	Lower	Upper
266	100		
268	62.4	50.1	75.1
264	60.5	50.1	75.1



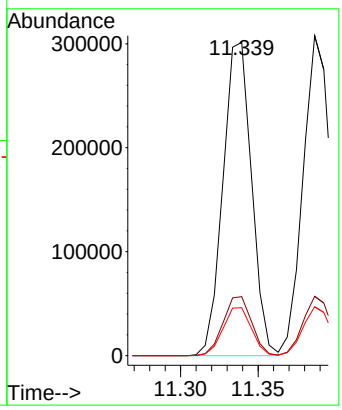


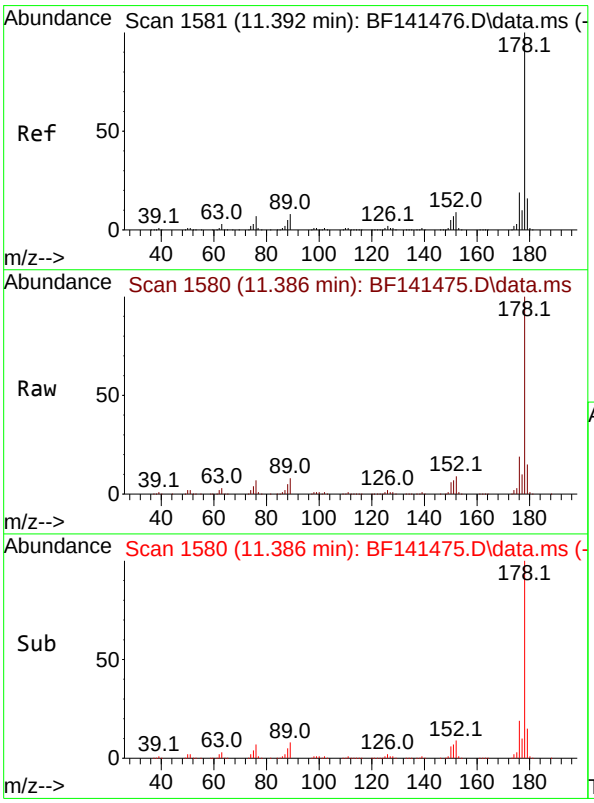
#71
Phenanthrene
Concen: 21.085 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 387256

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.3	12.4	18.6

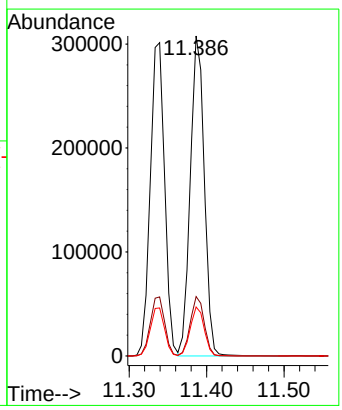


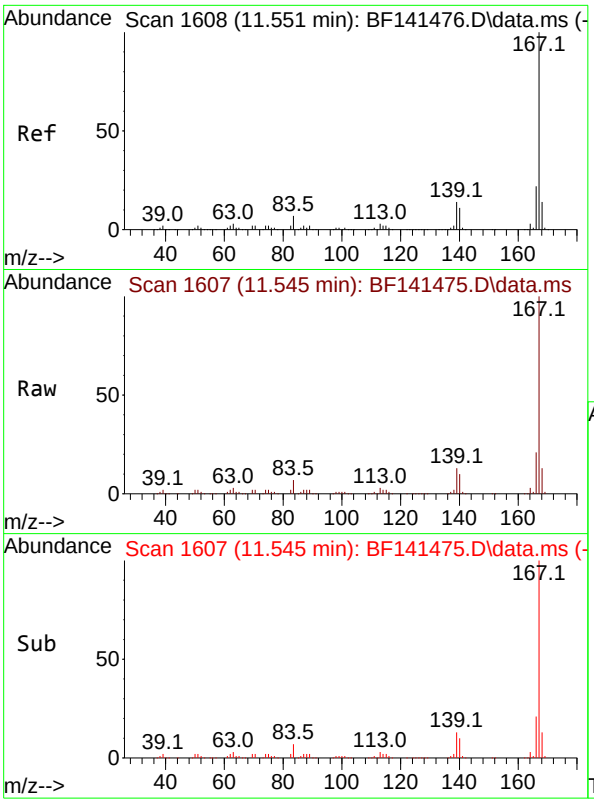


#72
Anthracene
Concen: 20.930 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:178 Resp: 386414

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	15.3	12.4	18.6



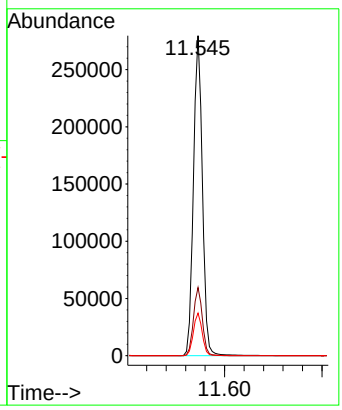


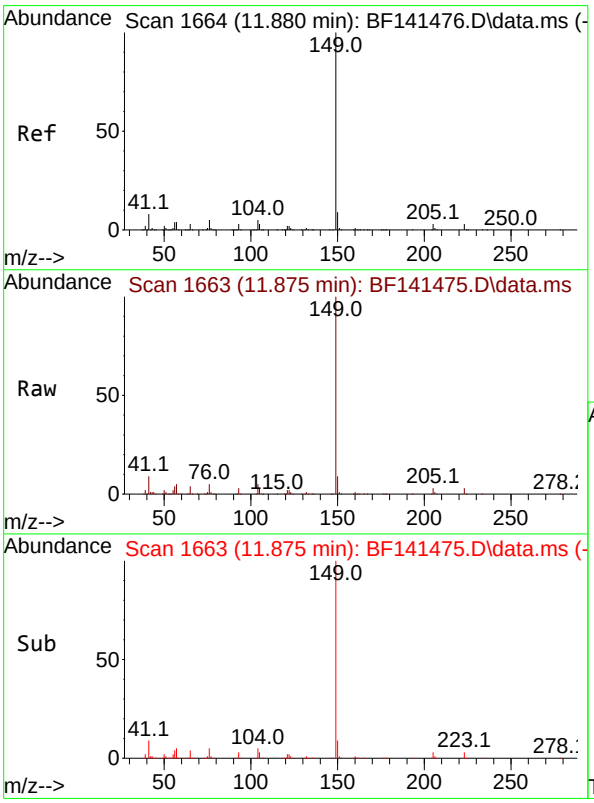
#73
Carbazole
Concen: 21.610 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 358987

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.4	26.2
139	13.3	10.9	16.3

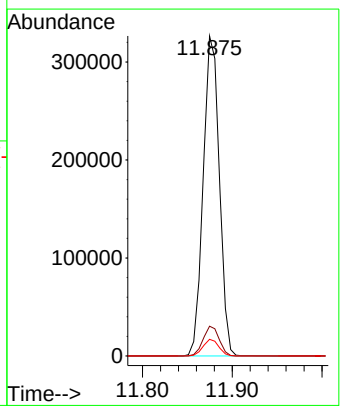


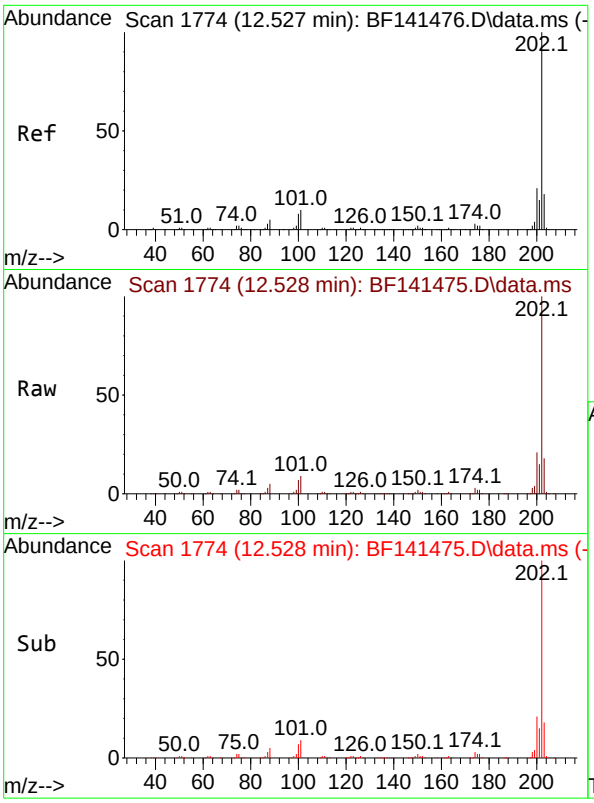


#74
Di-n-butylphthalate
Concen: 21.273 ng
RT: 11.875 min Scan# 1663
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 408041

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	5.2	4.2	6.2



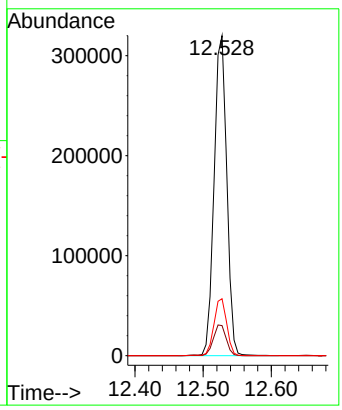


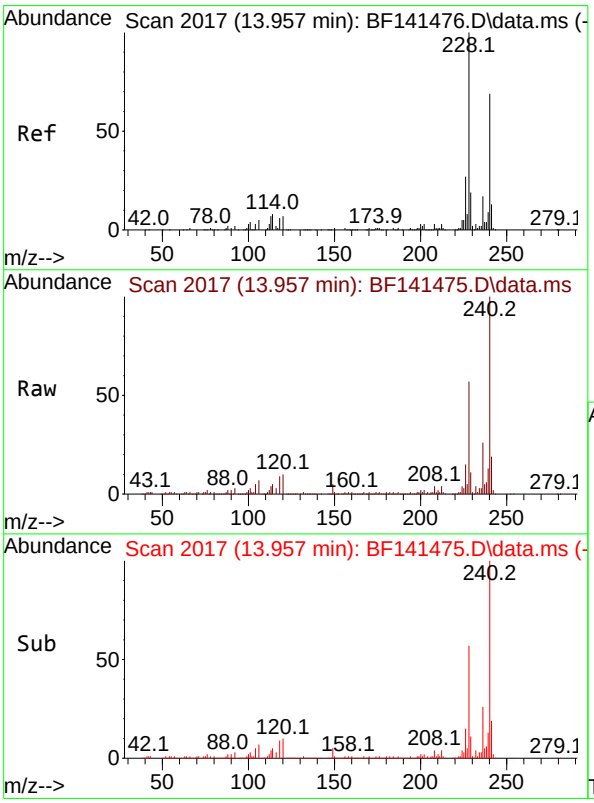
#75
Fluoranthene
Concen: 21.298 ng
RT: 12.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 414712

Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	30.2
203	17.8	0.0	37.6

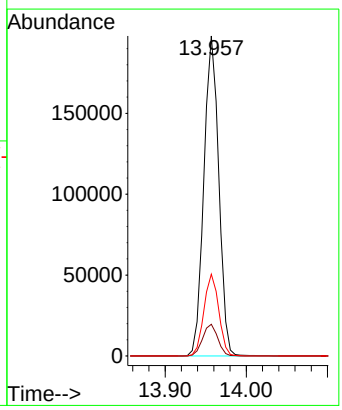


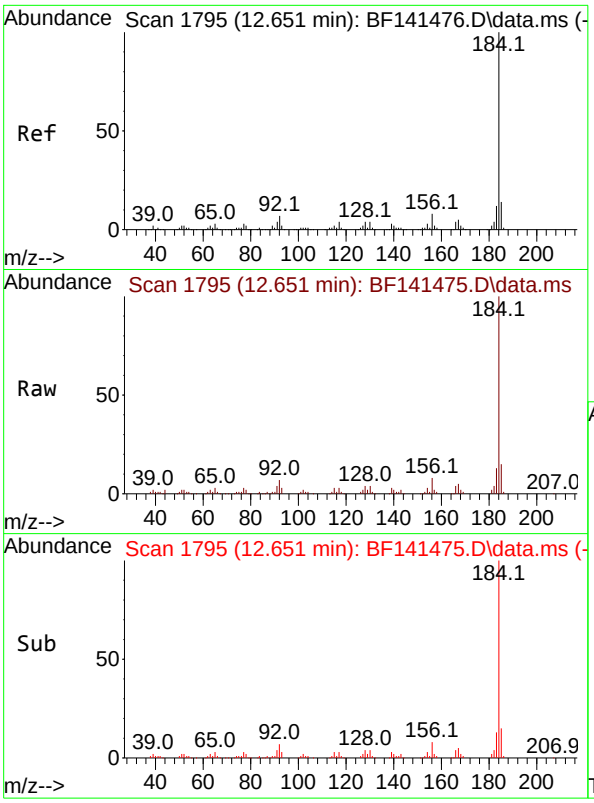


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:240 Resp: 251741

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.5	19.8	29.8



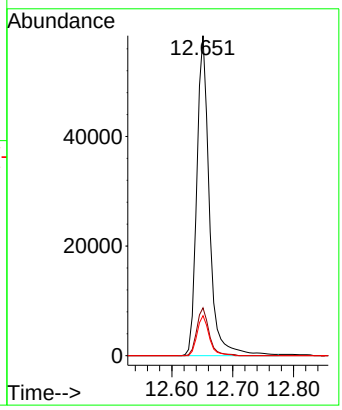


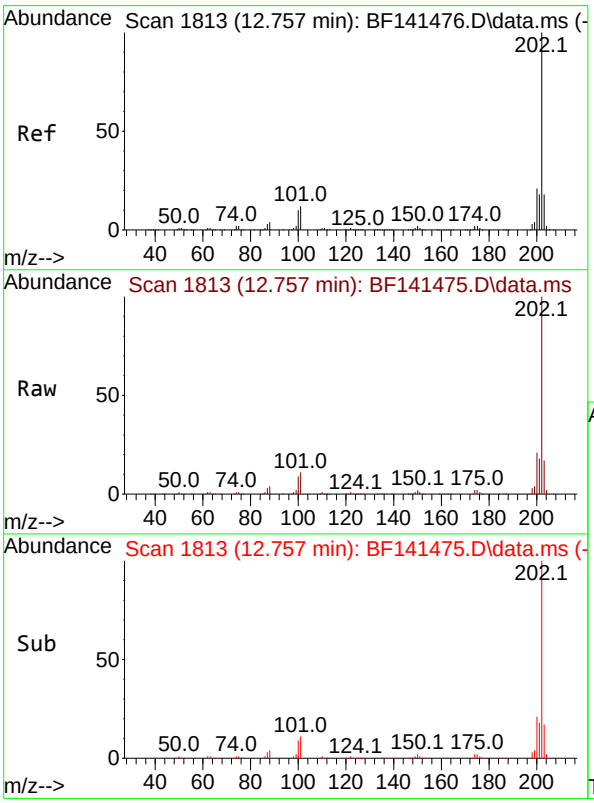
#77
Benzidine
Concen: 15.132 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 84013

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.3	16.9
183	12.5	9.3	13.9

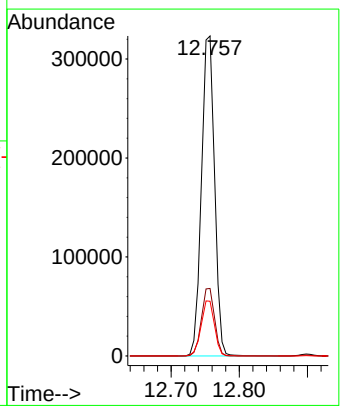


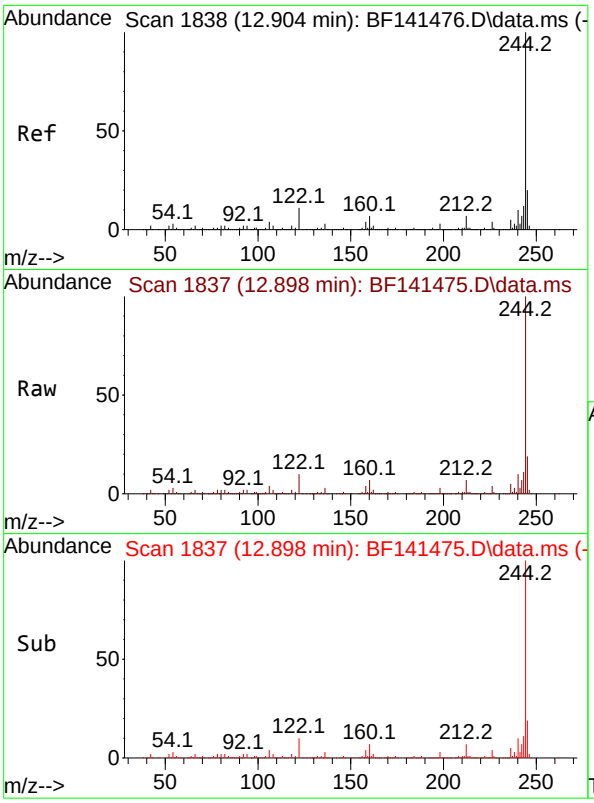


#78
Pyrene
Concen: 20.169 ng
RT: 12.757 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:202 Resp: 432216

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.0	25.4
203	17.1	14.3	21.5



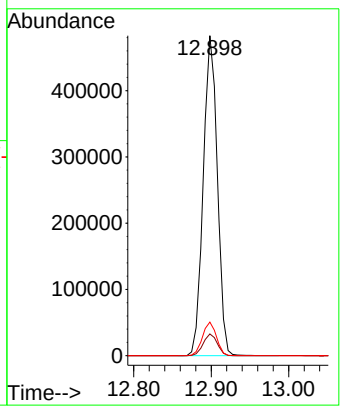


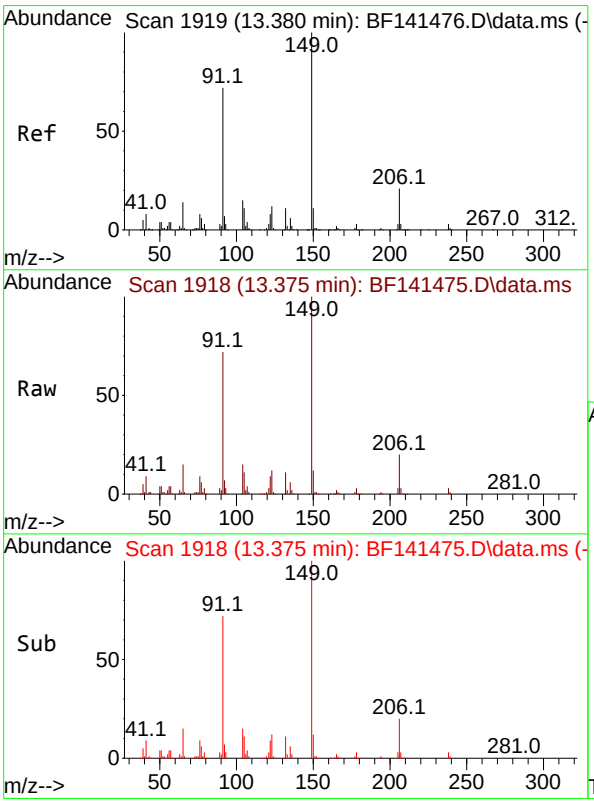
#79
Terphenyl-d14
Concen: 40.894 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 609819

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.5	8.4	12.6

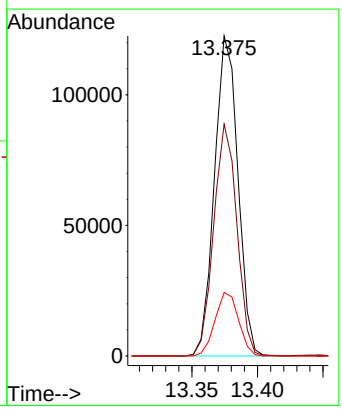


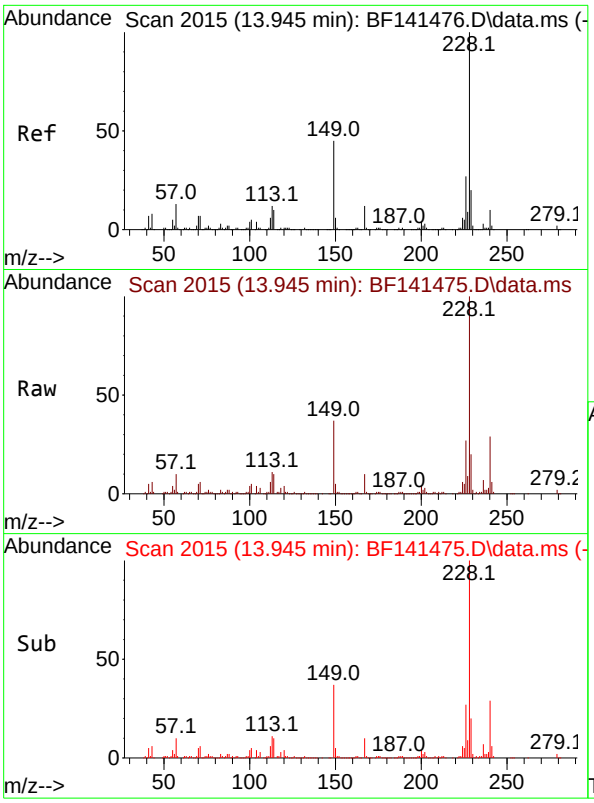


#80
Butylbenzylphthalate
Concen: 20.502 ng
RT: 13.375 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 152184

Ion	Ratio	Lower	Upper
149	100		
91	72.5	57.8	86.8
206	19.8	16.7	25.1



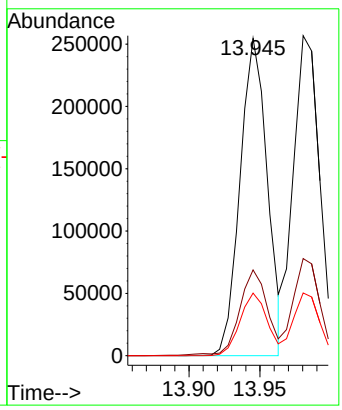


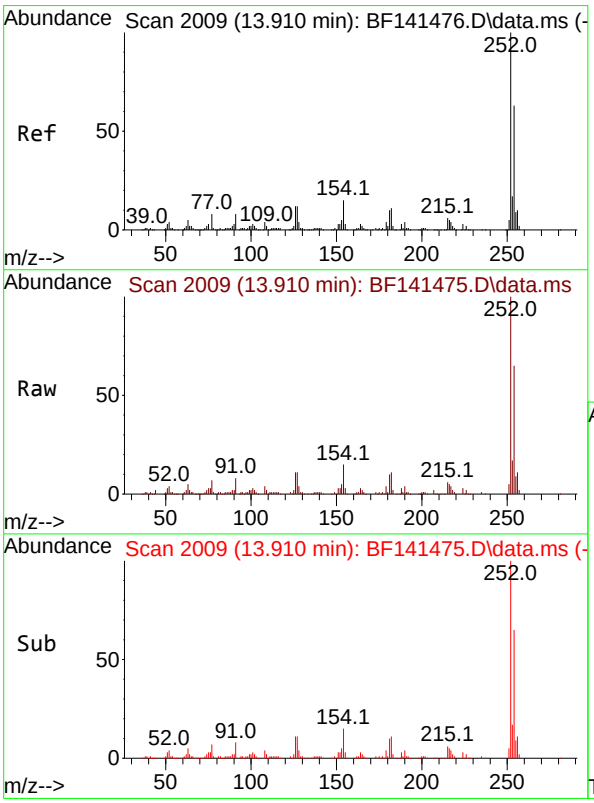
#81
Benzo(a)anthracene
Concen: 20.310 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 339877

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.8	32.8
229	19.7	15.8	23.6

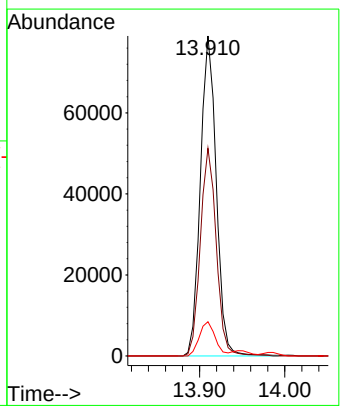


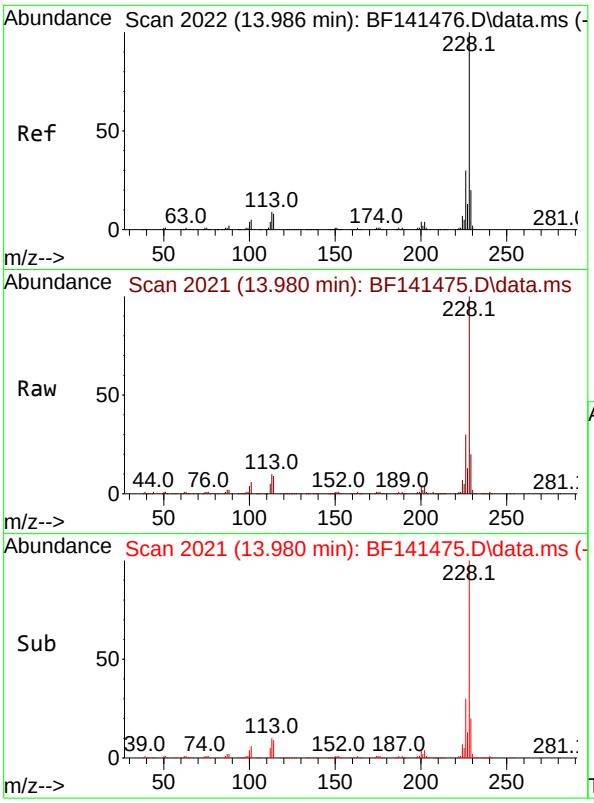


#82
3,3'-Dichlorobenzidine
Concen: 21.355 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 102367

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.6	76.0
126	10.7	9.3	13.9



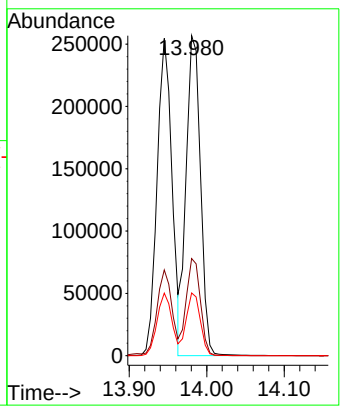


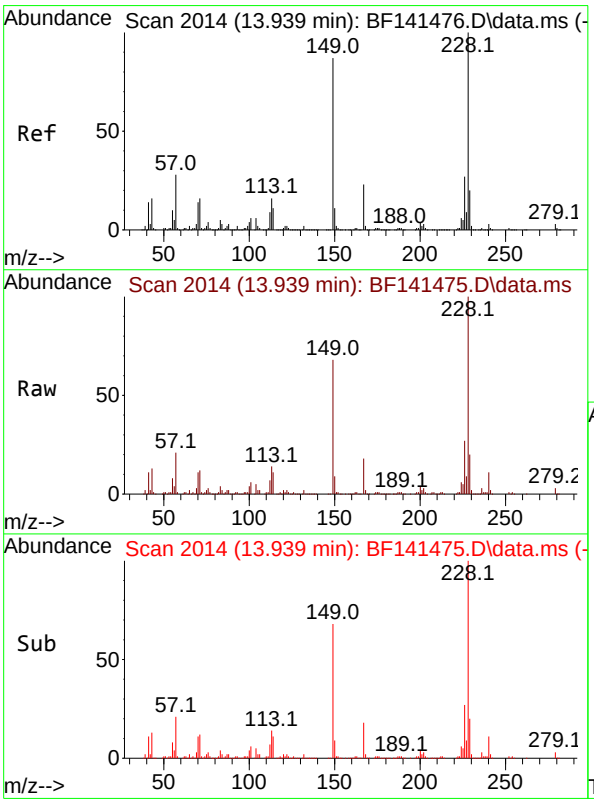
#83
Chrysene
Concen: 21.411 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 330823

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.0	36.0
229	19.6	15.7	23.5

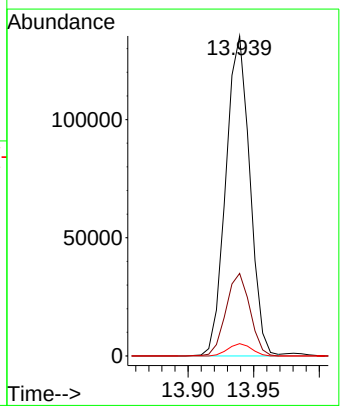


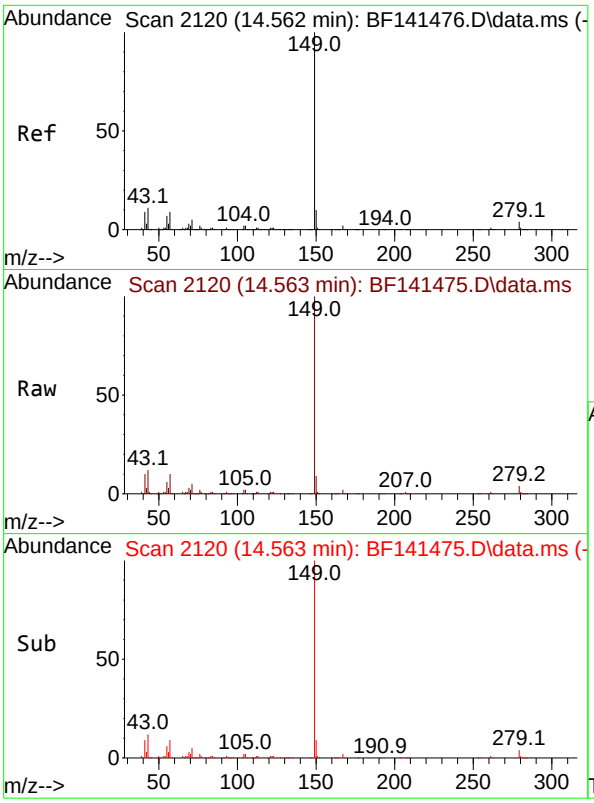


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.588 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:149 Resp: 172352

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.9	3.1	4.7



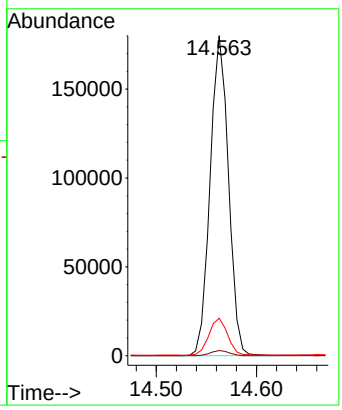


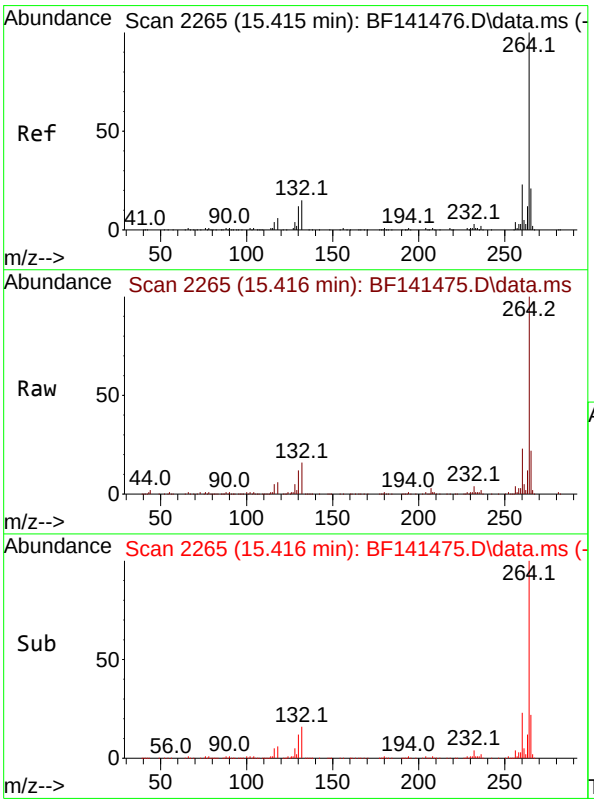
#85
Di-n-octyl phthalate
Concen: 19.180 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 229060

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.7	9.5	14.3

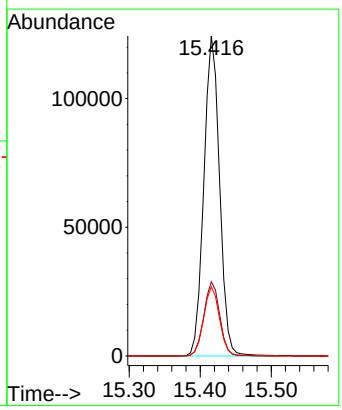


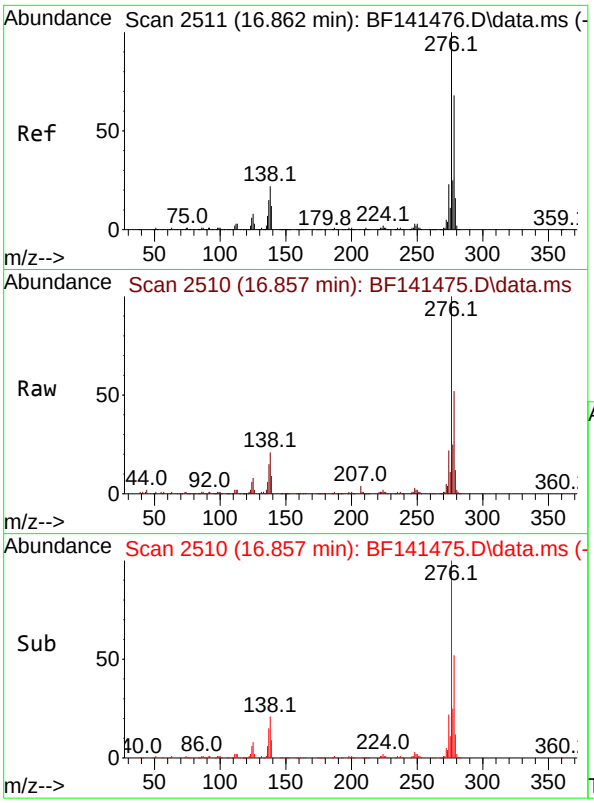


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.416 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:264 Resp: 191435

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.6	17.0	25.4



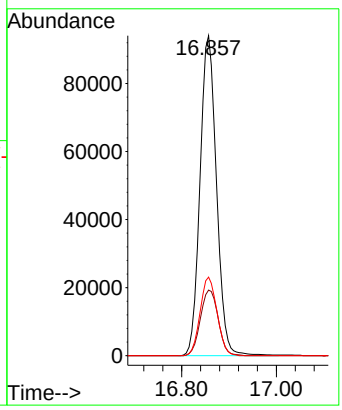


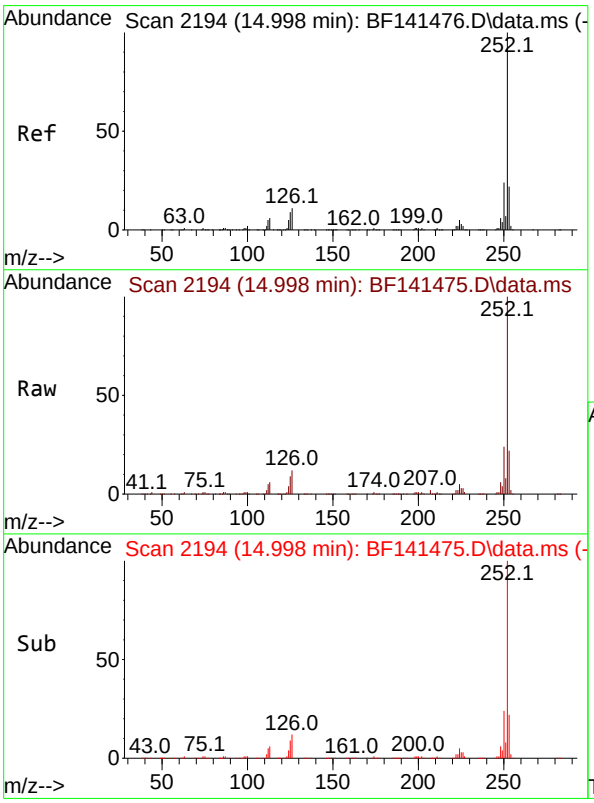
#87
Indeno(1,2,3-cd)pyrene
Concen: 19.200 ng
RT: 16.857 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 227105

Ion	Ratio	Lower	Upper
276	100		
138	22.1	18.0	27.0
277	25.1	20.4	30.6

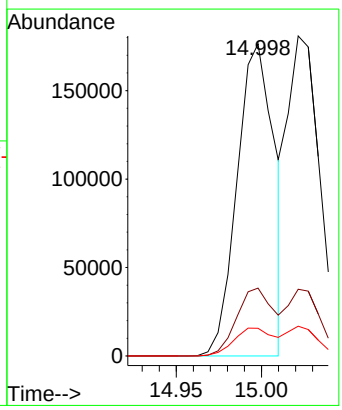


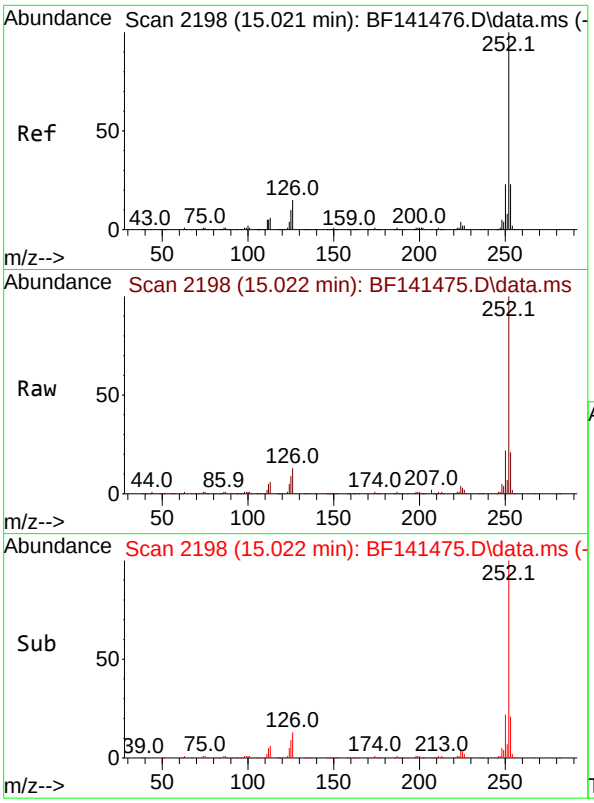


#88
Benzo(b)fluoranthene
Concen: 20.826 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 267695

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	8.9	7.0	10.6



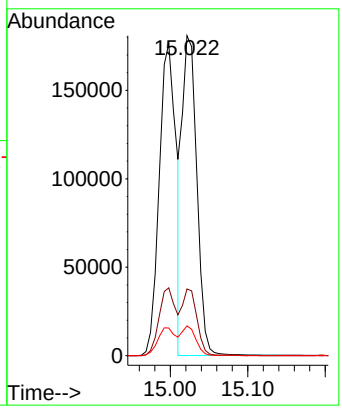


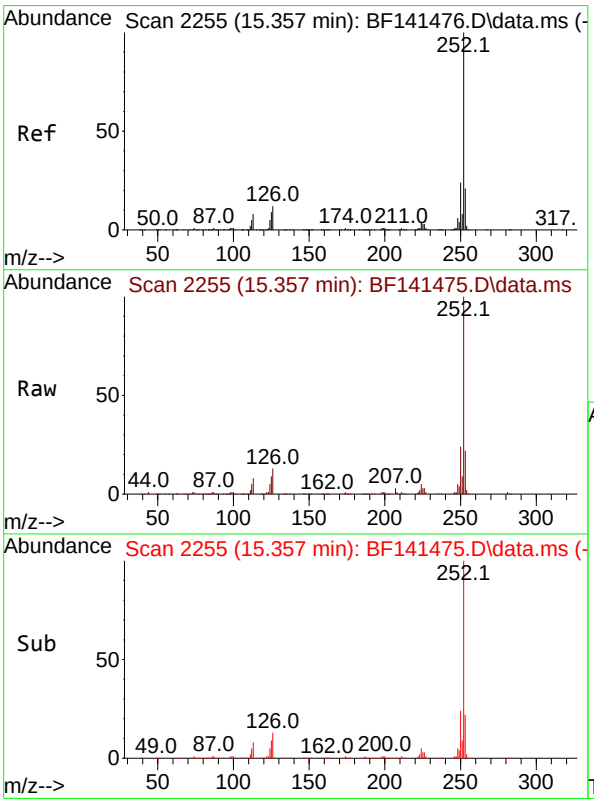
#89
Benzo(k)fluoranthene
Concen: 21.747 ng
RT: 15.022 min Scan# 21
Delta R.T. -0.011 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 238695

Ion	Ratio	Lower	Upper
252	100		
253	20.9	18.0	27.0
125	9.3	7.4	11.0

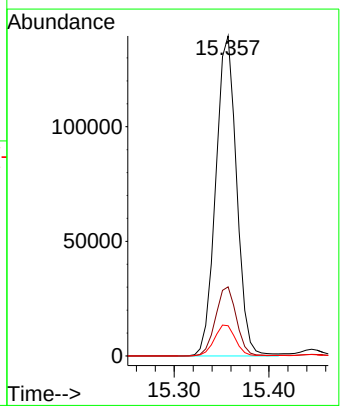


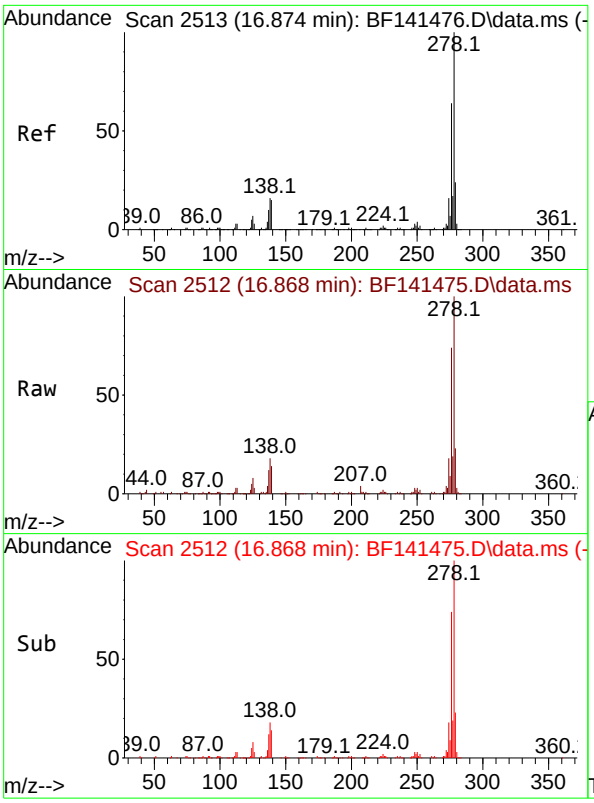


#90
Benzo(a)pyrene
Concen: 20.528 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:252 Resp: 213510

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.1	25.7
125	9.5	7.4	11.2



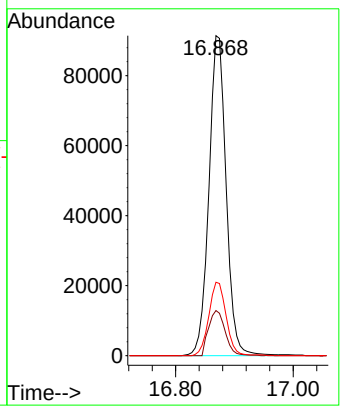


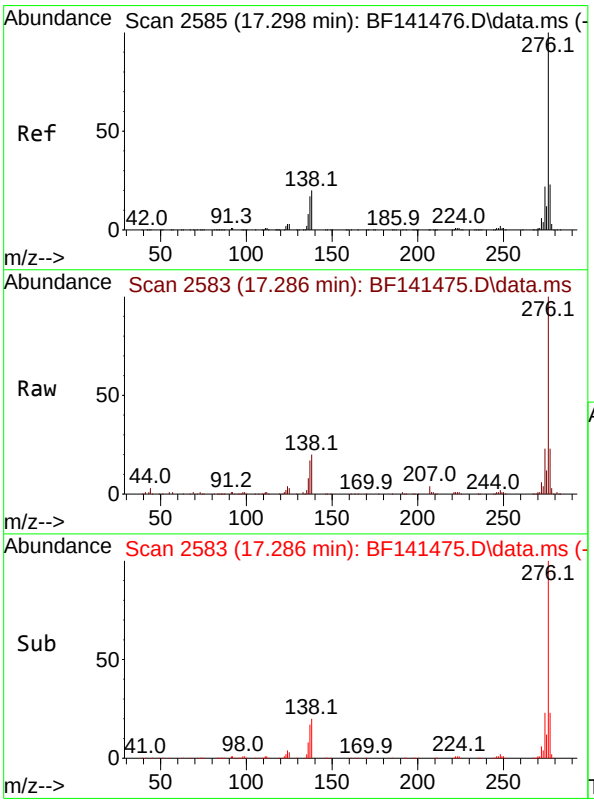
#91
Dibenzo(a,h)anthracene
Concen: 19.379 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 185740

Ion	Ratio	Lower	Upper
278	100		
139	14.1	11.8	17.6
279	23.0	19.1	28.7

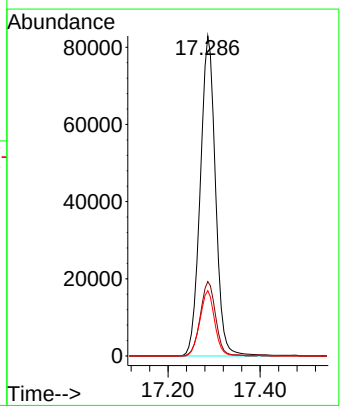




#92
Benzo(g,h,i)perylene
Concen: 19.103 ng
RT: 17.286 min Scan# 2583
Delta R.T. -0.029 min
Lab File: BF141475.D
Acq: 06 Feb 2025 12:26

Tgt Ion:276 Resp: 191595

Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.6	28.0
138	20.4	15.9	23.9



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141630.D
Acq On : 14 Feb 2025 10:55
Operator : RC/JU
Sample : PB166711BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Quant Time: Feb 14 11:26:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	90964	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	371902	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	212243	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	368683	20.000	ng		0.00
76) Chrysene-d12	13.963	240	270184	20.000	ng		0.00
86) Perylene-d12	15.433	264	194810	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	784834	135.264	ng		0.01
7) Phenol-d6	6.434	99	981348	133.817	ng		0.00
23) Nitrobenzene-d5	7.351	82	652882	91.565	ng		-0.01
42) 2,4,6-Tribromophenol	10.616	330	293116	137.479	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1253581	90.996	ng		0.00
79) Terphenyl-d14	12.898	244	1523434	95.188	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.587	88	94831	40.608	ng		98
3) Pyridine	3.322	79	210182	37.823	ng		95
4) n-Nitrosodimethylamine	3.269	42	144743	39.337	ng		92
6) Aniline	6.451	93	243539	35.402	ng	#	71
8) 2-Chlorophenol	6.575	128	279313	44.551	ng		99
9) Benzaldehyde	6.340	77	137197	35.205	ng		97
10) Phenol	6.445	94	323723	42.412	ng		96
11) bis(2-Chloroethyl)ether	6.522	93	268517	46.837	ng		100
12) 1,3-Dichlorobenzene	6.728	146	286308	43.256	ng		98
13) 1,4-Dichlorobenzene	6.804	146	291707	43.135	ng		99
14) 1,2-Dichlorobenzene	6.957	146	276739	44.091	ng		99
15) Benzyl Alcohol	6.934	79	237860	42.296	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.063	45	413377	42.122	ng		75
17) 2-Methylphenol	7.051	107	213128	43.440	ng		96
18) Hexachloroethane	7.298	117	109475	43.742	ng		96
19) n-Nitroso-di-n-propyla...	7.204	70	190828	43.502	ng		97
20) 3+4-Methylphenols	7.204	107	277335	44.479	ng		95
22) Acetophenone	7.198	105	421831	45.597	ng		95
24) Nitrobenzene	7.375	77	287726	41.382	ng		97
25) Isophorone	7.610	82	513476	45.165	ng		99
26) 2-Nitrophenol	7.686	139	147327	42.590	ng		95
27) 2,4-Dimethylphenol	7.728	122	222598	55.084	ng		98
28) bis(2-Chloroethoxy)met...	7.822	93	323428	44.396	ng		99
29) 2,4-Dichlorophenol	7.939	162	235576	43.145	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	246032	41.379	ng		99
31) Naphthalene	8.092	128	803179	41.489	ng		100
32) Benzoic acid	7.869	122	177189	42.213	ng		96
33) 4-Chloroaniline	8.151	127	98890	14.631	ng		98
34) Hexachlorobutadiene	8.204	225	154911	43.398	ng		99
35) Caprolactam	8.516	113	51379	30.906	ng		94
36) 4-Chloro-3-methylphenol	8.639	107	257123	42.512	ng		100
37) 2-Methylnaphthalene	8.781	142	513246	40.742	ng		99
38) 1-Methylnaphthalene	8.881	142	498933	40.893	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	278963	45.430	ng		98
41) Hexachlorocyclopentadiene	8.933	237	291755	142.852	ng		99
43) 2,4,6-Trichlorophenol	9.069	196	168826	42.540	ng		100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141630.D
Acq On : 14 Feb 2025 10:55
Operator : RC/JU
Sample : PB166711BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Quant Time: Feb 14 11:26:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

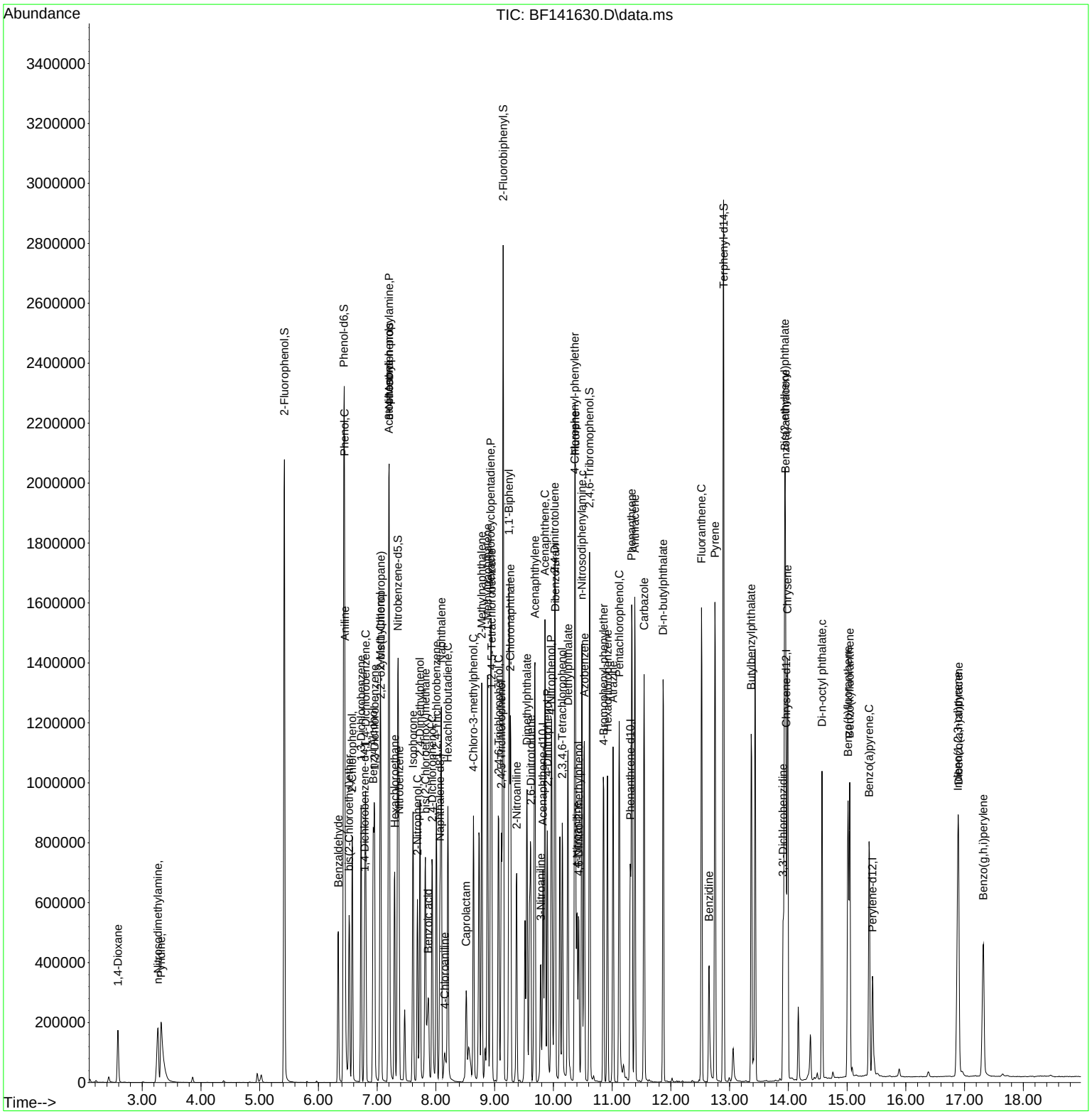
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	179056	41.630	ng	98
46) 1,1'-Biphenyl	9.245	154	745855	45.328	ng	99
47) 2-Chloronaphthalene	9.269	162	508835	41.818	ng	99
48) 2-Nitroaniline	9.375	65	166155	40.689	ng	95
49) Acenaphthylene	9.686	152	784782	43.362	ng	100
50) Dimethylphthalate	9.551	163	621981	43.167	ng	100
51) 2,6-Dinitrotoluene	9.616	165	134931	42.838	ng	96
52) Acenaphthene	9.857	154	495714	40.742	ng	99
53) 3-Nitroaniline	9.786	138	91850	27.093	ng	95
54) 2,4-Dinitrophenol	9.898	184	164078	87.647	ng	94
55) Dibenzofuran	10.033	168	713832	39.970	ng	99
56) 4-Nitrophenol	9.963	139	210075	83.475	ng	97
57) 2,4-Dinitrotoluene	10.022	165	186028	44.364	ng	98
58) Fluorene	10.375	166	577543	41.824	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	157267	42.470	ng	95
60) Diethylphthalate	10.251	149	604022	42.608	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	280535	42.229	ng	100
62) 4-Nitroaniline	10.404	138	142107	41.281	ng	97
63) Azobenzene	10.528	77	575345	40.824	ng	96
65) 4,6-Dinitro-2-methylph...	10.433	198	108077	42.200	ng	93
66) n-Nitrosodiphenylamine	10.486	169	511215	43.316	ng	99
67) 4-Bromophenyl-phenylether	10.857	248	178050	43.211	ng	99
68) Hexachlorobenzene	10.922	284	185558	43.733	ng	99
69) Atrazine	11.016	200	196997	55.640	ng	99
70) Pentachlorophenol	11.122	266	212252	78.233	ng	98
71) Phenanthrene	11.333	178	880466	43.385	ng	100
72) Anthracene	11.386	178	904106	44.317	ng	100
73) Carbazole	11.545	167	783953	42.707	ng	100
74) Di-n-butylphthalate	11.869	149	954420	45.029	ng	100
75) Fluoranthene	12.521	202	928025	43.132	ng	100
77) Benzidine	12.651	184	271228	45.518	ng	99
78) Pyrene	12.751	202	941150	40.920	ng	100
80) Butylbenzylphthalate	13.368	149	371547	46.639	ng	99
81) Benzo(a)anthracene	13.951	228	772840	43.031	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	162575	31.600	ng	97
83) Chrysene	13.986	228	712862	42.987	ng	100
84) Bis(2-ethylhexyl)phtha...	13.939	149	469530	52.257	ng	99
85) Di-n-octyl phthalate	14.574	149	679262	52.993	ng	98
87) Indeno(1,2,3-cd)pyrene	16.886	276	528877	43.937	ng	99
88) Benzo(b)fluoranthene	15.015	252	622615	47.599	ng	99
89) Benzo(k)fluoranthene	15.045	252	482488	43.196	ng	99
90) Benzo(a)pyrene	15.374	252	493463	46.622	ng	99
91) Dibenzo(a,h)anthracene	16.898	278	423612	43.432	ng	99
92) Benzo(g,h,i)perylene	17.321	276	421022	41.250	ng	99

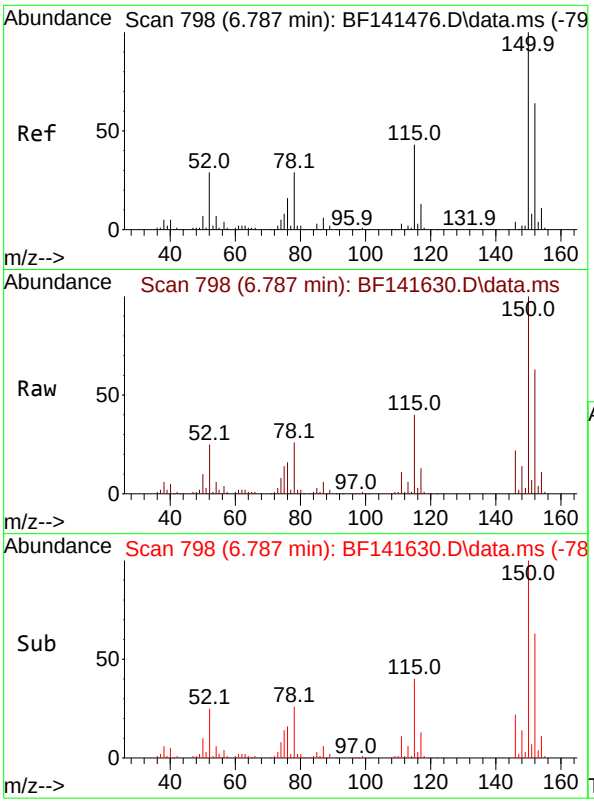
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141630.D
Acq On : 14 Feb 2025 10:55
Operator : RC/JU
Sample : PB166711BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Quant Time: Feb 14 11:26:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



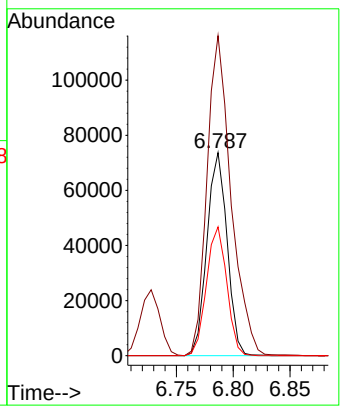


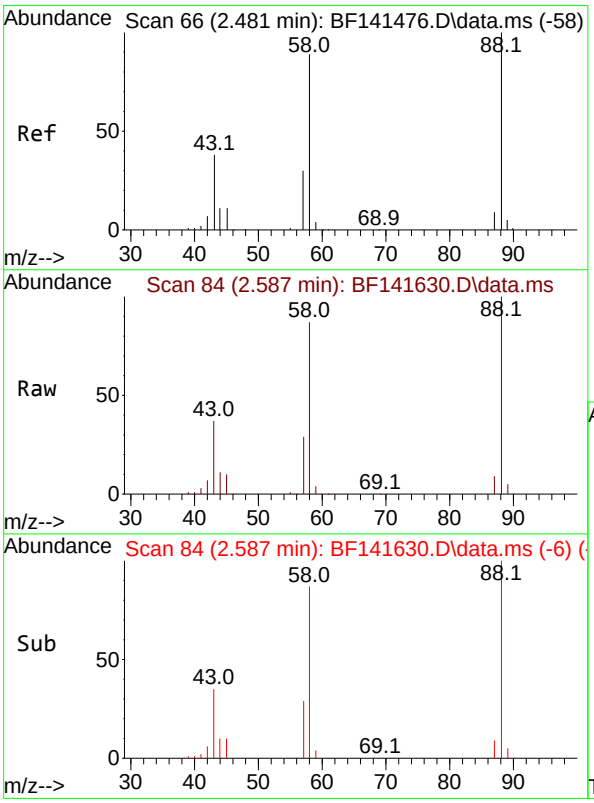
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:152 Resp: 90964

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.0	187.4
115	63.4	53.6	80.4

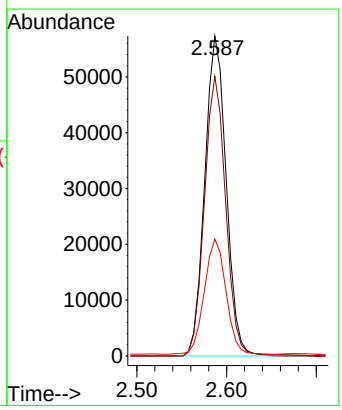


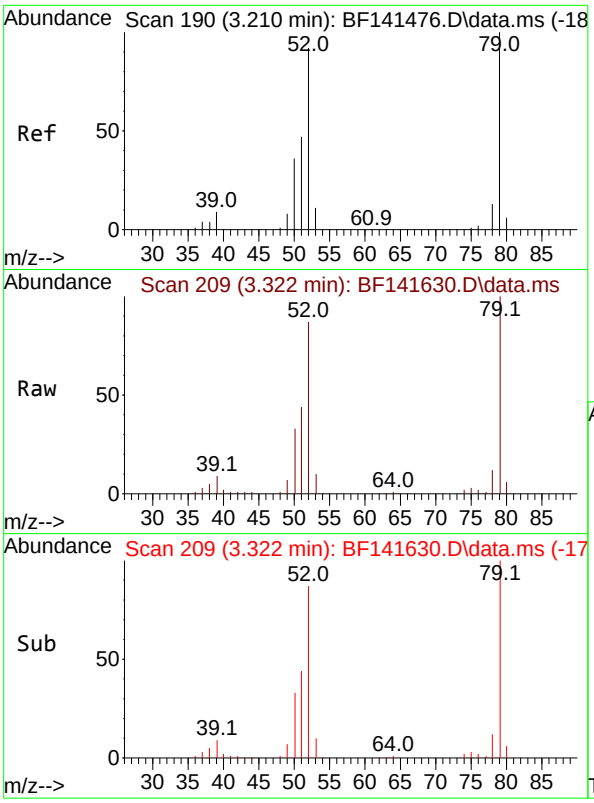


#2
1,4-Dioxane
Concen: 40.608 ng
RT: 2.587 min Scan# 84
Delta R.T. 0.106 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 88 Resp: 94831

Ion	Ratio	Lower	Upper
88	100		
58	87.3	71.1	106.7
43	36.3	30.6	46.0



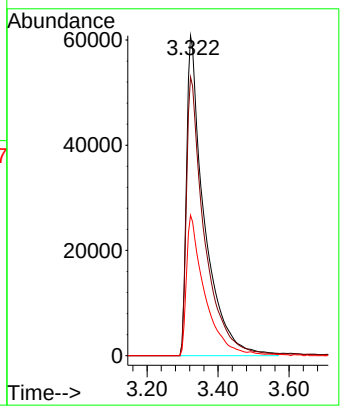


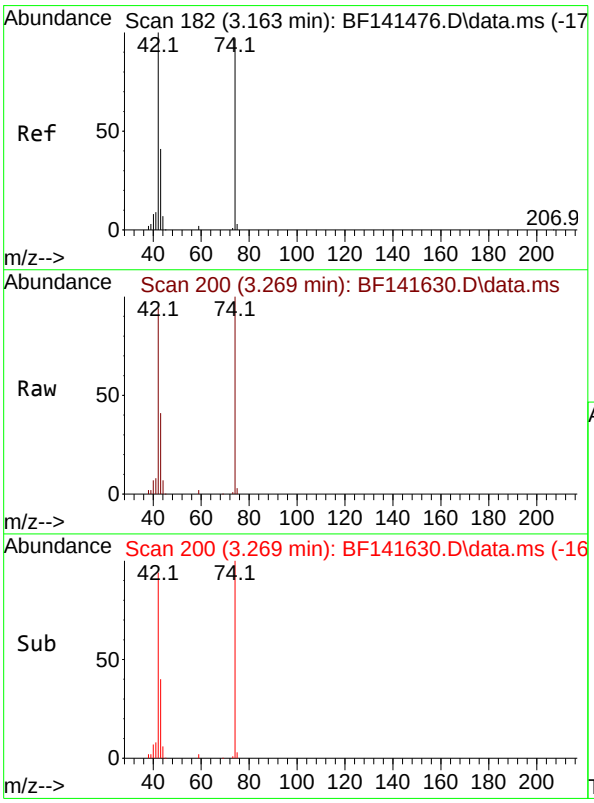
#3
Pyridine
Concen: 37.823 ng
RT: 3.322 min Scan# 2
Delta R.T. 0.106 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 79 Resp: 210182

Ion	Ratio	Lower	Upper
79	100		
52	87.1	73.7	110.5
51	43.9	37.5	56.3

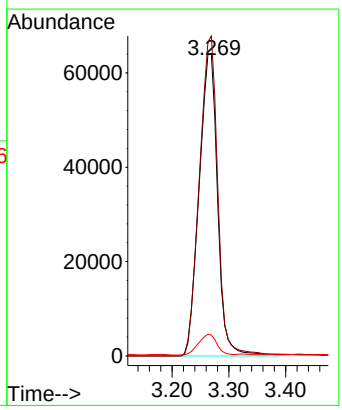


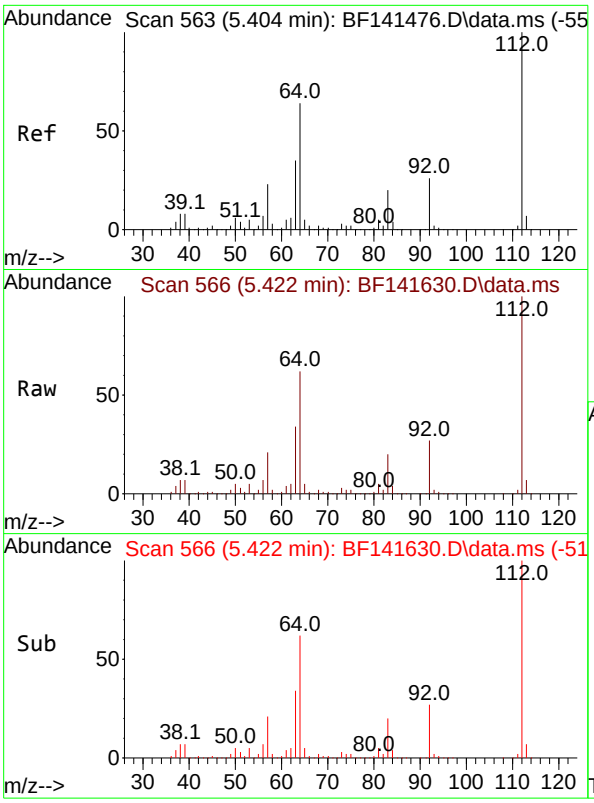


#4
n-Nitrosodimethylamine
Concen: 39.337 ng
RT: 3.269 min Scan# 200
Delta R.T. 0.082 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 42 Resp: 144743

Ion	Ratio	Lower	Upper
42	100		
74	105.8	78.0	117.0
44	6.9	5.4	8.2



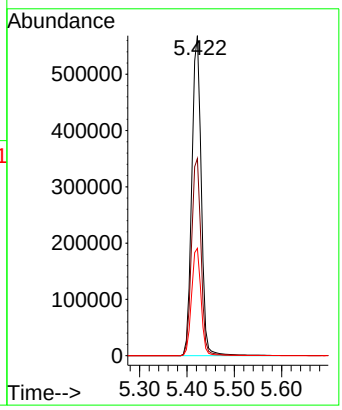


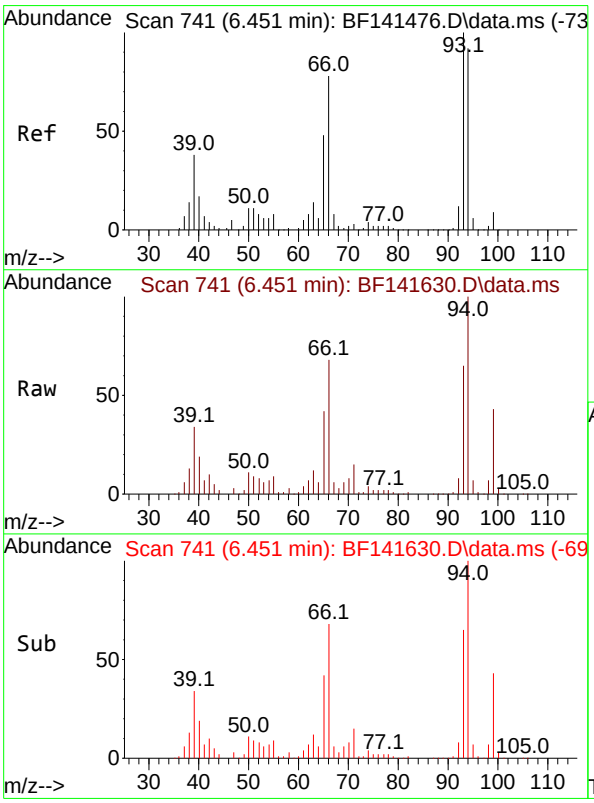
#5
2-Fluorophenol
Concen: 135.264 ng
RT: 5.422 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:112 Resp: 784834

Ion	Ratio	Lower	Upper
112	100		
64	61.6	51.1	76.7
63	33.5	28.4	42.6

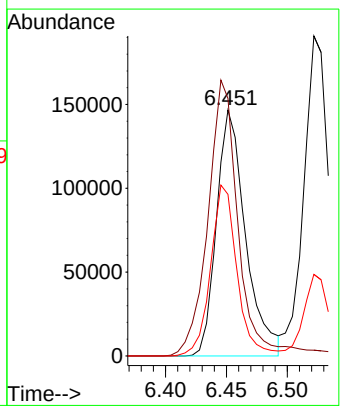


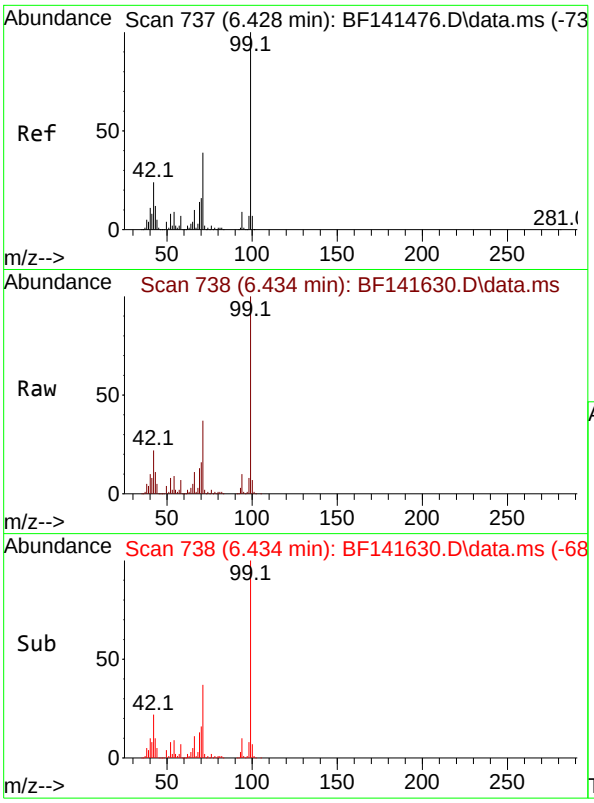


#6
Aniline
Concen: 35.402 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 93 Resp: 243539

Ion	Ratio	Lower	Upper
93	100		
66	104.7	62.6	94.0#
65	65.7	38.3	57.5#



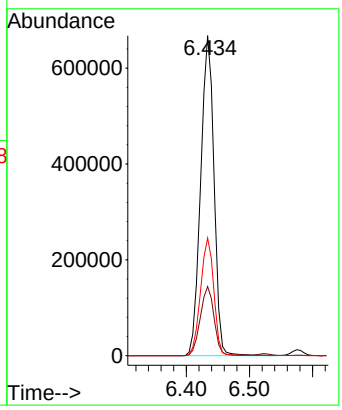


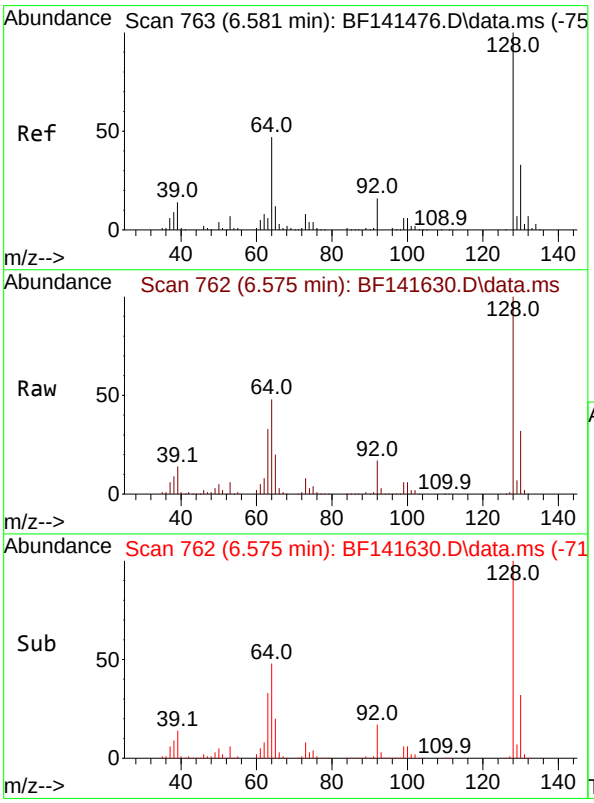
#7
Phenol-d6
Concen: 133.817 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 99 Resp: 981348

Ion	Ratio	Lower	Upper
99	100		
42	21.6	19.1	28.7
71	36.8	31.1	46.7

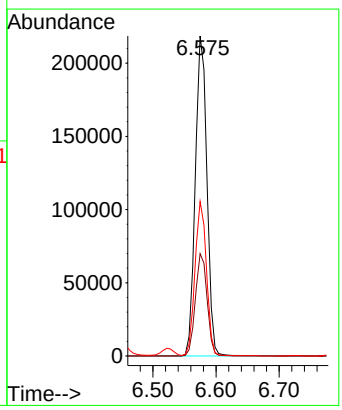


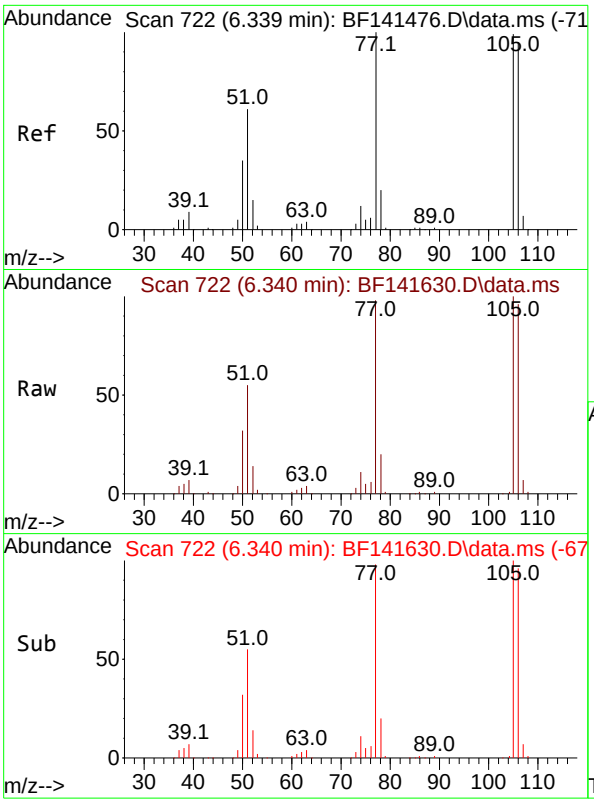


#8
2-Chlorophenol
Concen: 44.551 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:128 Resp: 279313

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.7	52.7
64	48.3	28.3	68.3



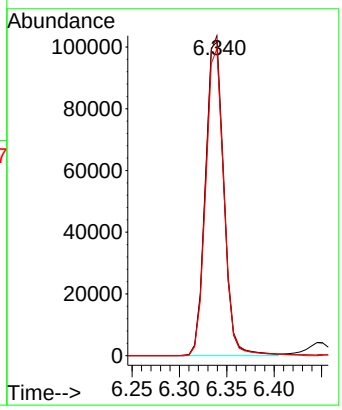


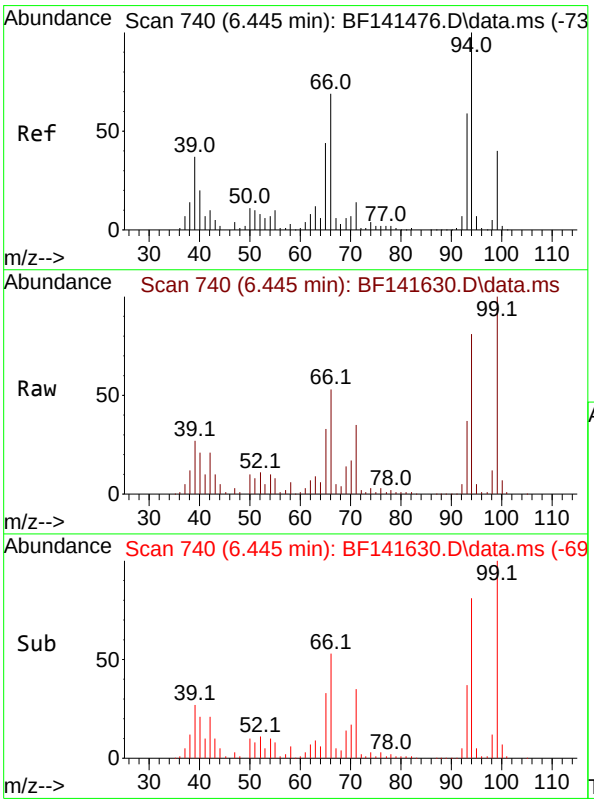
#9
Benzaldehyde
Concen: 35.205 ng
RT: 6.340 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 77 Resp: 137197

Ion	Ratio	Lower	Upper
77	100		
105	101.9	79.4	119.4
106	97.8	75.1	115.1

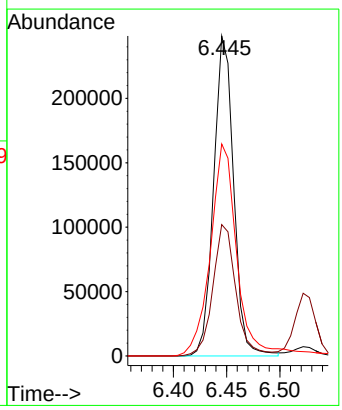


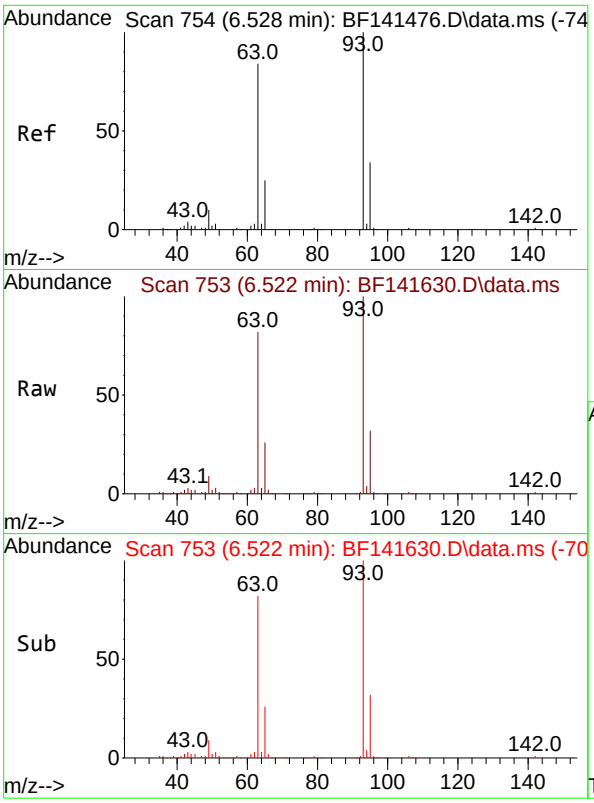


#10
Phenol
Concen: 42.412 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 94 Resp: 323723

Ion	Ratio	Lower	Upper
94	100		
65	41.0	23.7	63.7
66	66.2	49.3	89.3



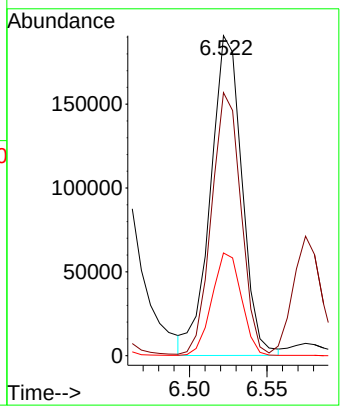


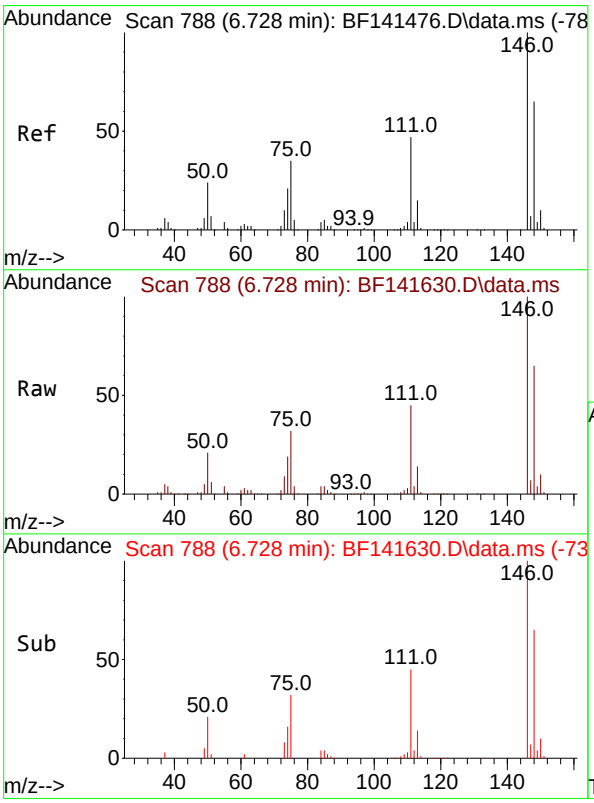
#11
bis(2-Chloroethyl)ether
Concen: 46.837 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 93 Resp: 268517

Ion	Ratio	Lower	Upper
93	100		
63	82.2	62.0	102.0
95	32.1	12.6	52.6

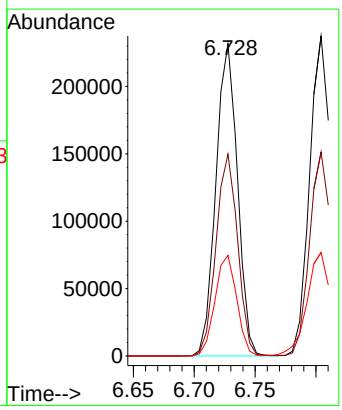


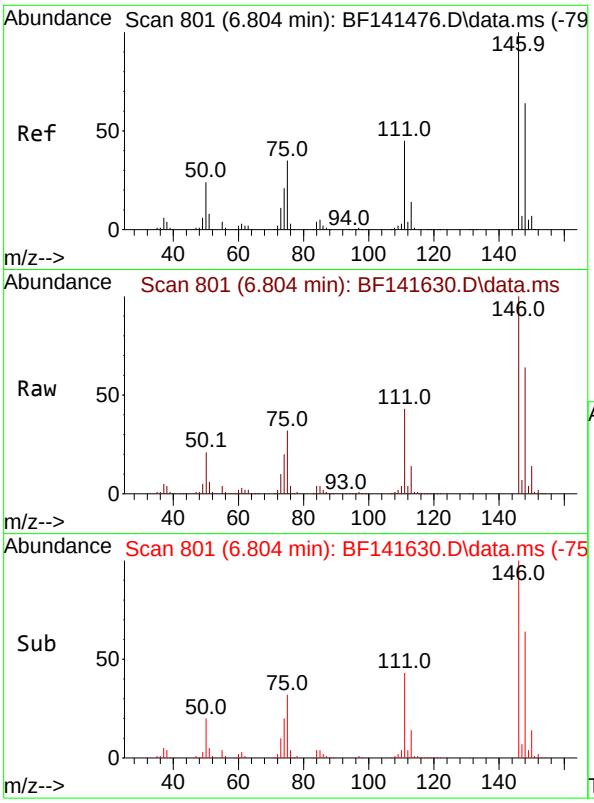


#12
1,3-Dichlorobenzene
Concen: 43.256 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:146 Resp: 286308

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.9	77.9
75	32.2	28.2	42.2



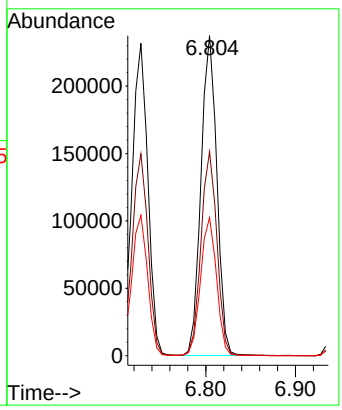


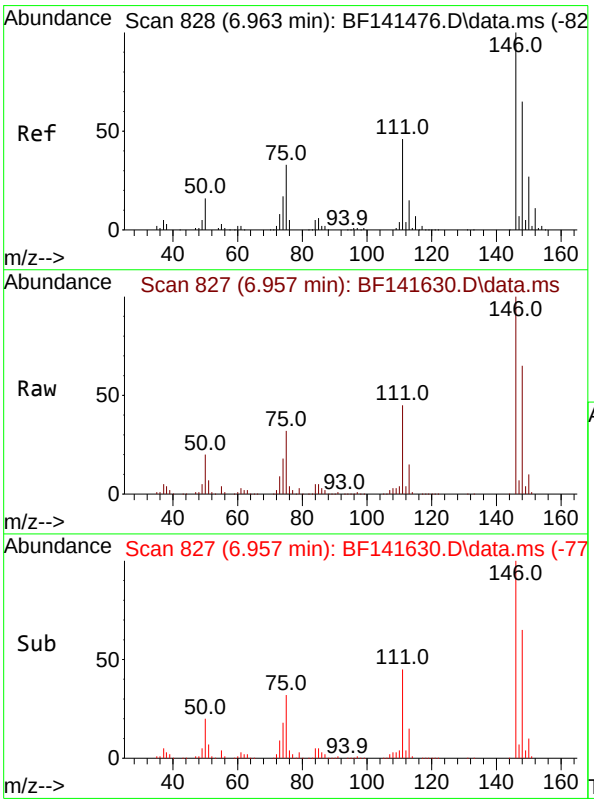
#13
1,4-Dichlorobenzene
Concen: 43.135 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:146 Resp: 291707

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.9	76.3
111	43.1	35.9	53.9

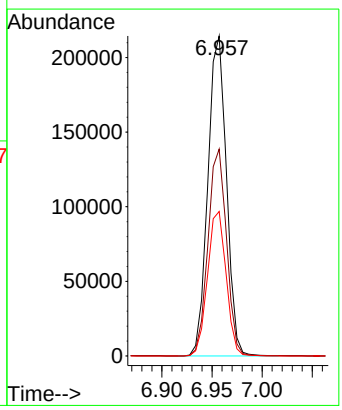


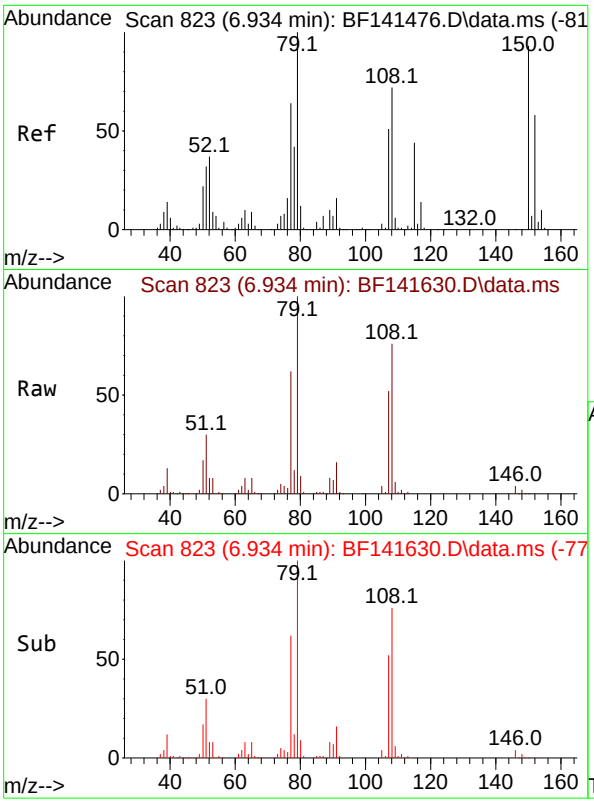


#14
1,2-Dichlorobenzene
Concen: 44.091 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:146 Resp: 276739

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.8	77.6
111	45.1	37.0	55.4



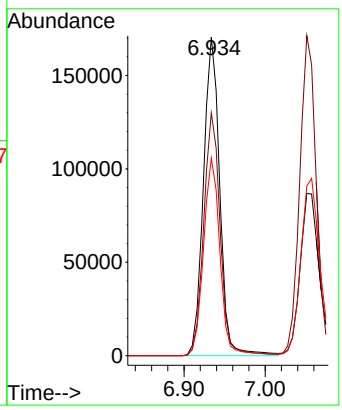


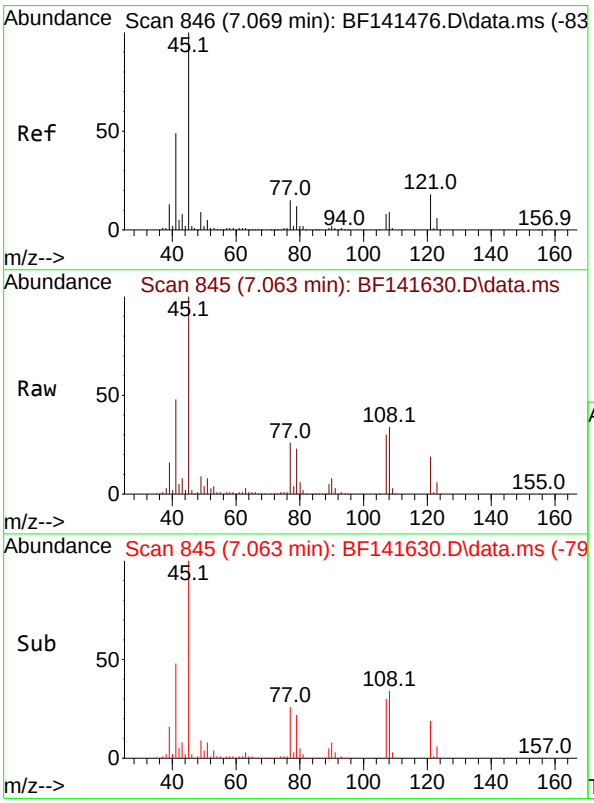
#15
Benzyl Alcohol
Concen: 42.296 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 79 Resp: 237860

Ion	Ratio	Lower	Upper
79	100		
108	76.2	57.4	86.2
77	62.0	50.9	76.3

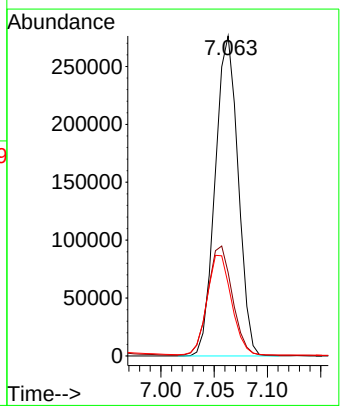


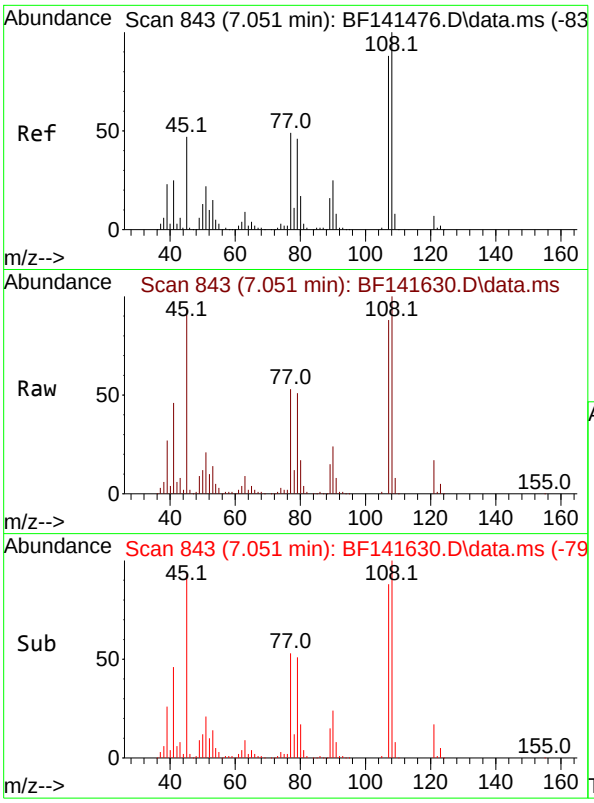


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.122 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 45 Resp: 413377

Ion	Ratio	Lower	Upper
45	100		
77	26.1	0.0	35.8
79	22.6	0.0	32.7



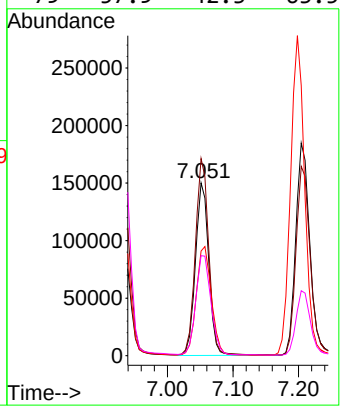


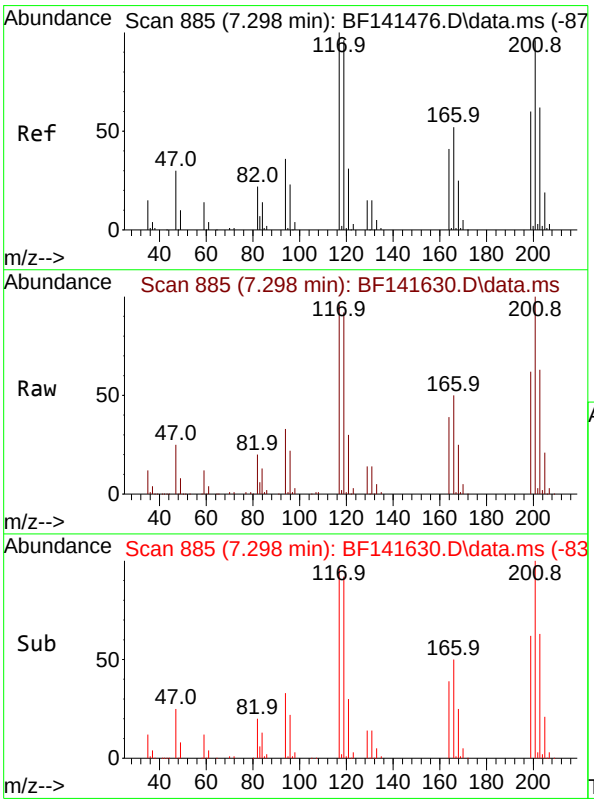
#17
2-Methylphenol
Concen: 43.440 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:107 Resp: 213128

Ion	Ratio	Lower	Upper
107	100		
108	114.1	90.6	136.0
77	60.5	44.4	66.6
79	57.9	42.3	63.5

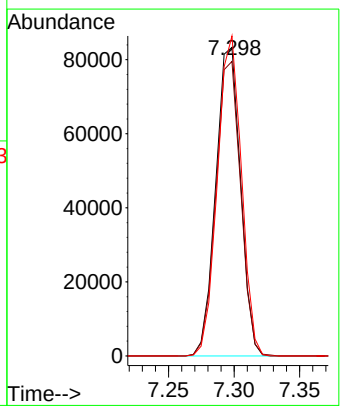


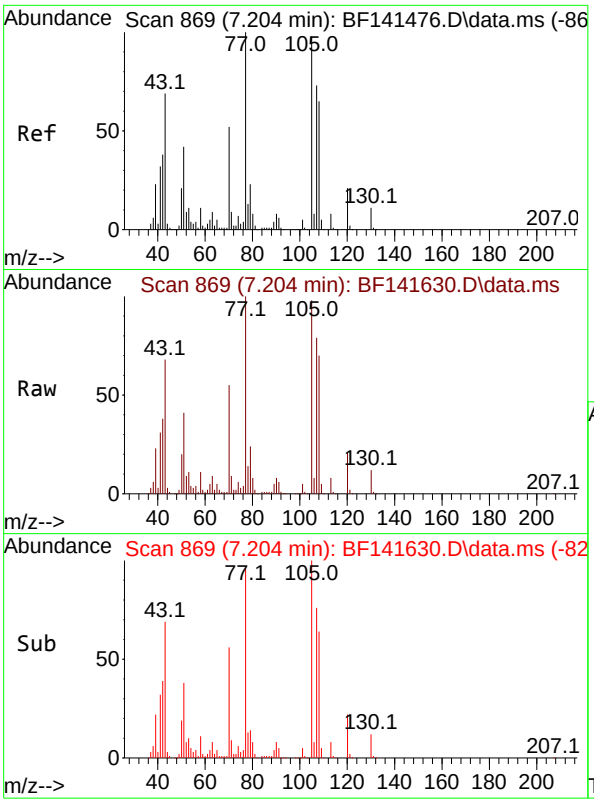


#18
Hexachloroethane
Concen: 43.742 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:117 Resp: 109475

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.5	114.7
201	103.7	76.7	115.1



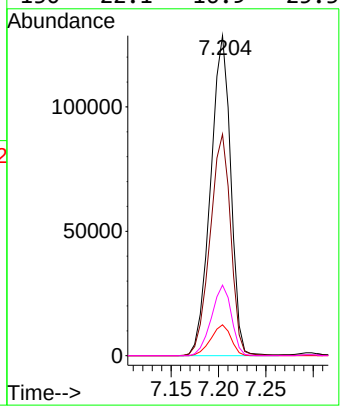


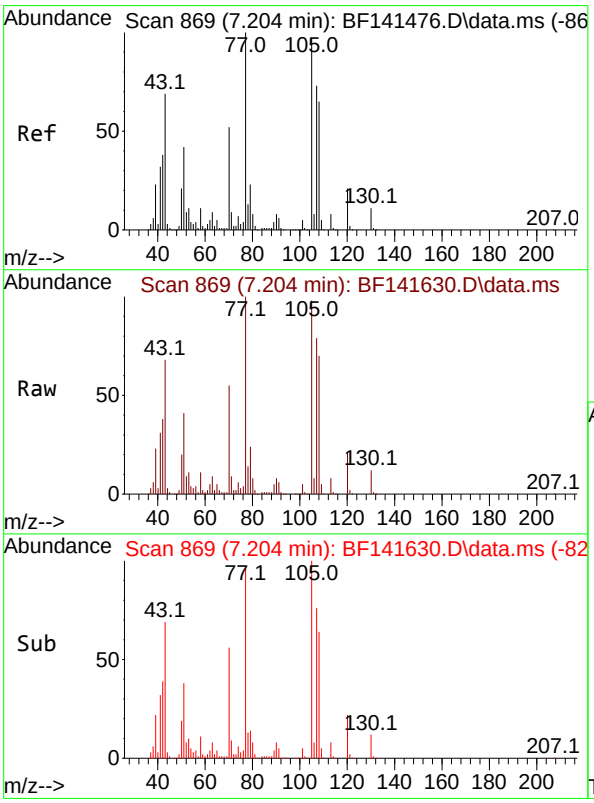
#19
n-Nitroso-di-n-propylamine
Concen: 43.502 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 70 Resp: 190828

Ion	Ratio	Lower	Upper
70	100		
42	69.2	57.4	86.2
101	9.6	8.0	12.0
130	22.1	16.9	25.3

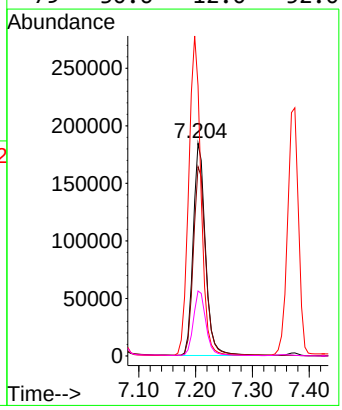


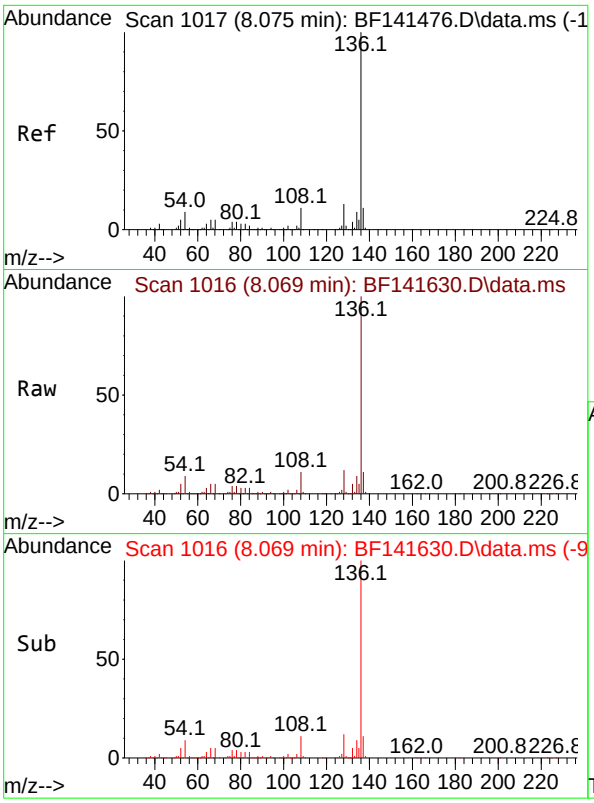


#20
3+4-Methylphenols
Concen: 44.479 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:107 Resp: 277335

Ion	Ratio	Lower	Upper
107	100		
108	89.0	68.5	108.5
77	127.0	116.5	156.5
79	30.6	12.0	52.0



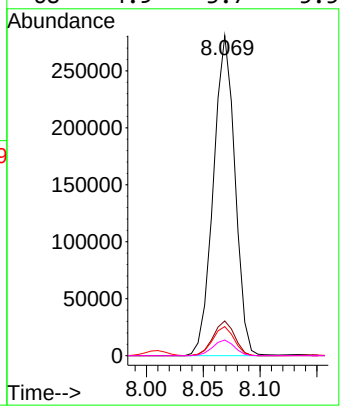


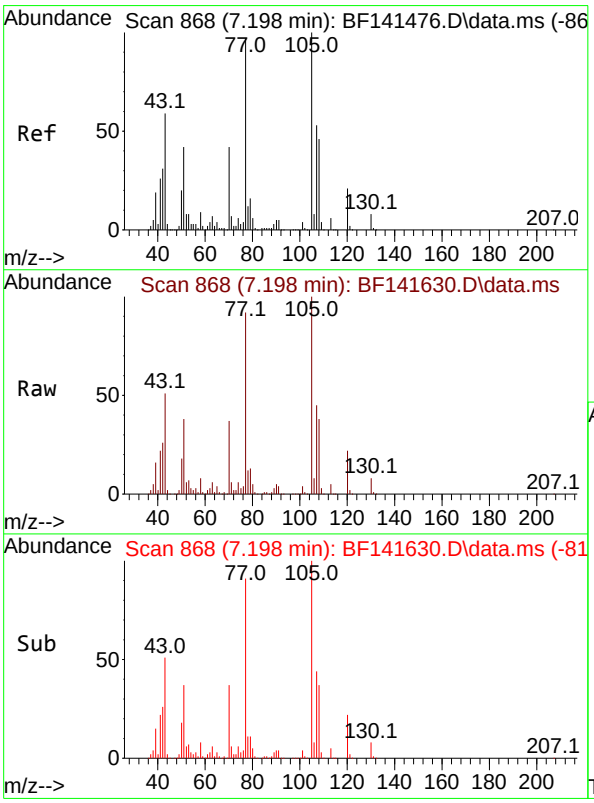
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:136 Resp: 371902

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	9.1	7.2	10.8
68	4.9	3.7	5.5

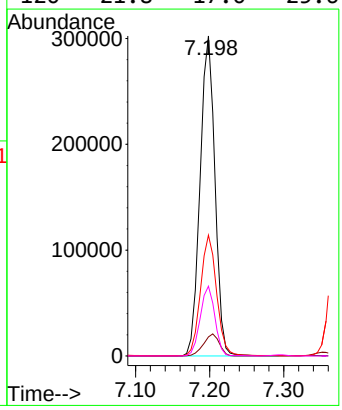


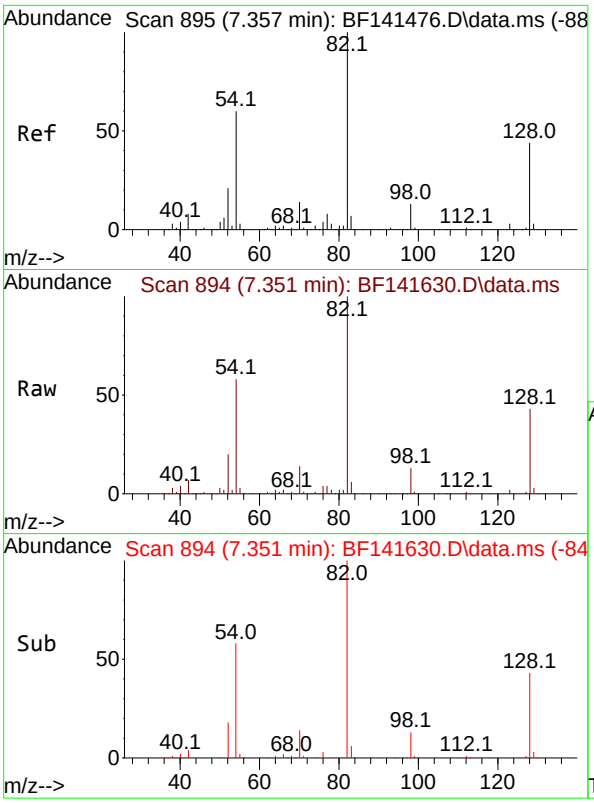


#22
Acetophenone
Concen: 45.597 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:105 Resp: 421831

Ion	Ratio	Lower	Upper
105	100		
71	6.0	5.7	8.5
51	37.7	33.7	50.5
120	21.8	17.0	25.6



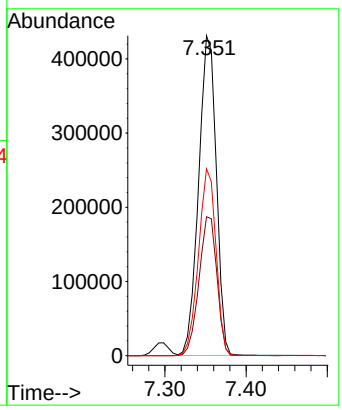


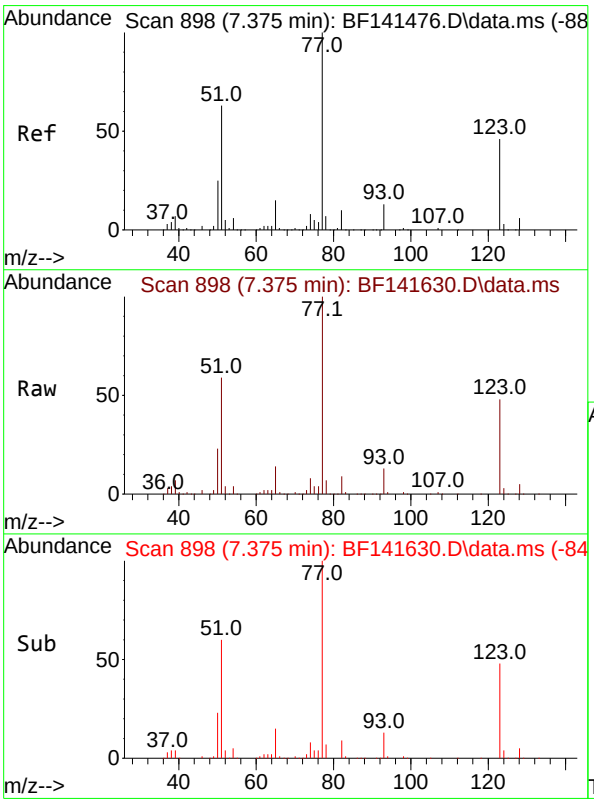
#23
Nitrobenzene-d5
Concen: 91.565 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 82 Resp: 652882

Ion	Ratio	Lower	Upper
82	100		
128	43.4	34.8	52.2
54	58.4	48.2	72.4

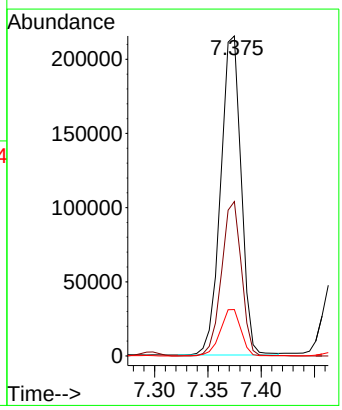


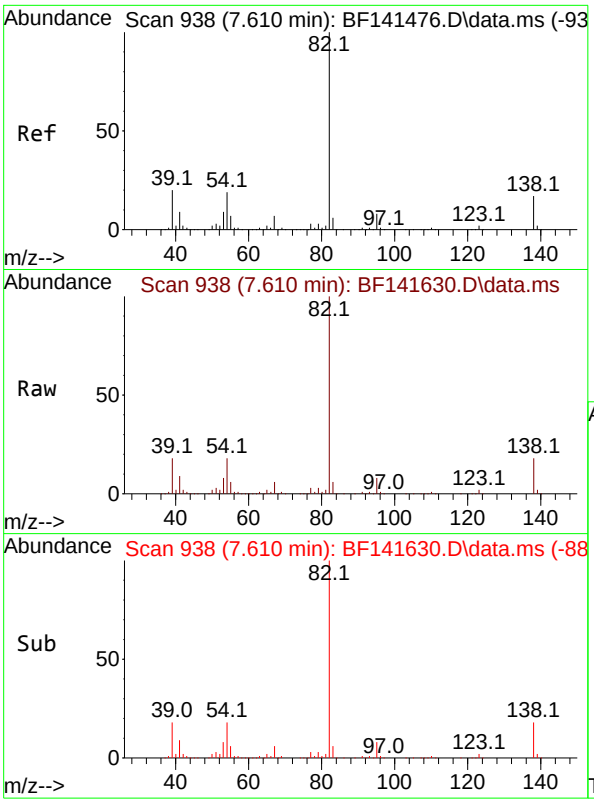


#24
Nitrobenzene
Concen: 41.382 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 77 Resp: 287726

Ion	Ratio	Lower	Upper
77	100		
123	48.2	36.9	55.3
65	14.5	11.9	17.9



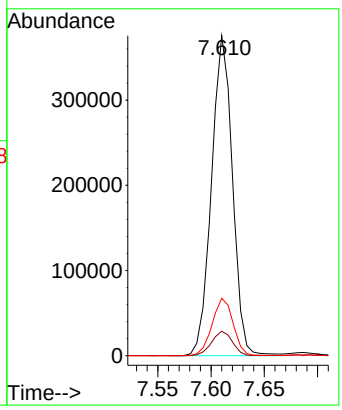


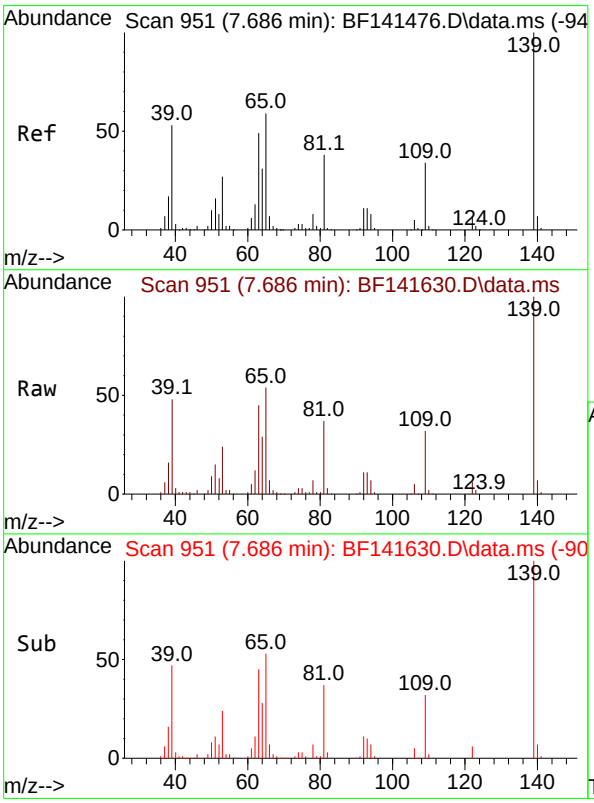
#25
Isophorone
Concen: 45.165 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 82 Resp: 513476

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	17.9	13.9	20.9

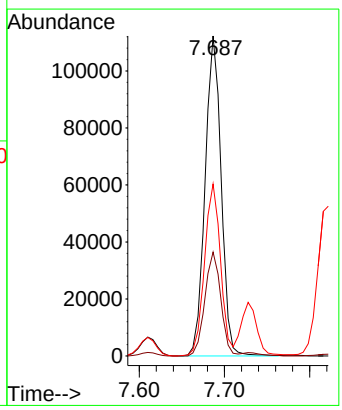


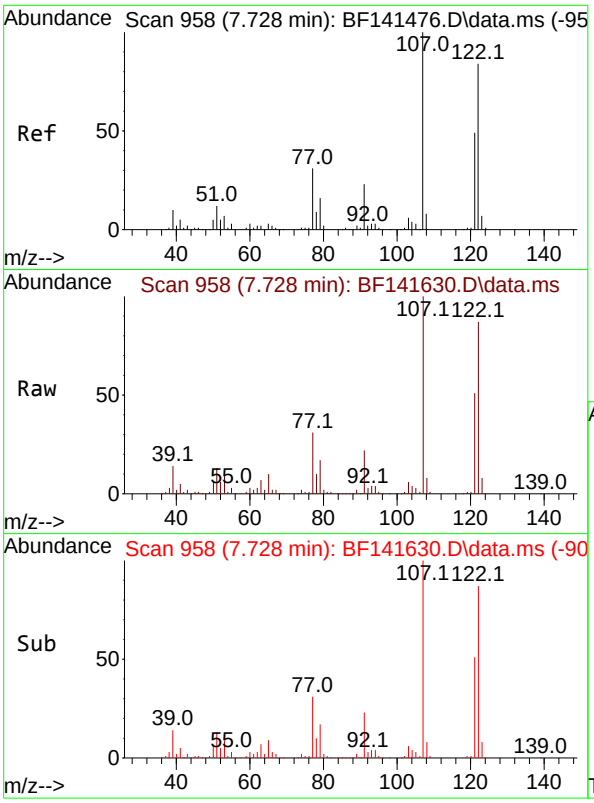


#26
2-Nitrophenol
Concen: 42.590 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:139 Resp: 147327

Ion	Ratio	Lower	Upper
139	100		
109	32.4	27.0	40.6
65	53.8	47.1	70.7



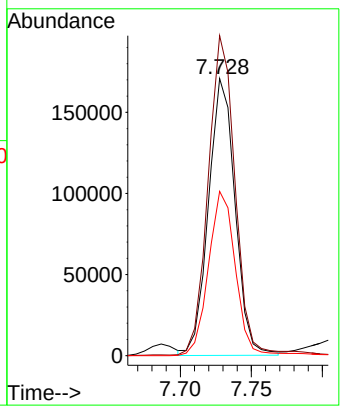


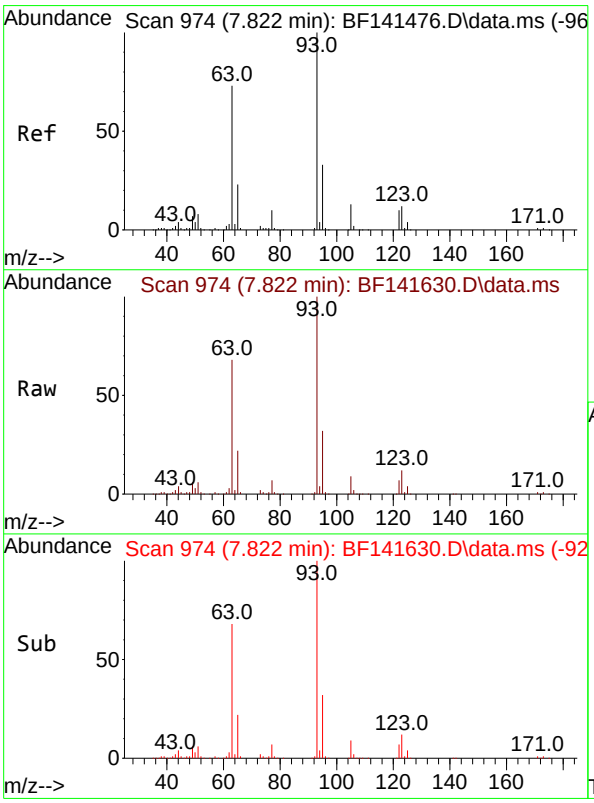
#27
2,4-Dimethylphenol
Concen: 55.084 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:122 Resp: 222598

Ion	Ratio	Lower	Upper
122	100		
107	115.5	94.3	141.5
121	59.3	46.0	69.0

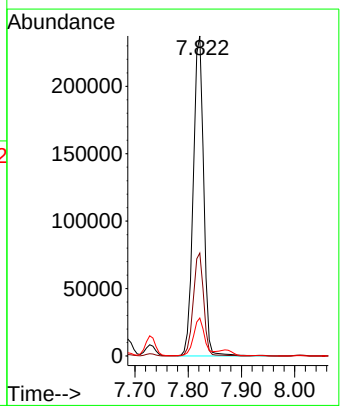


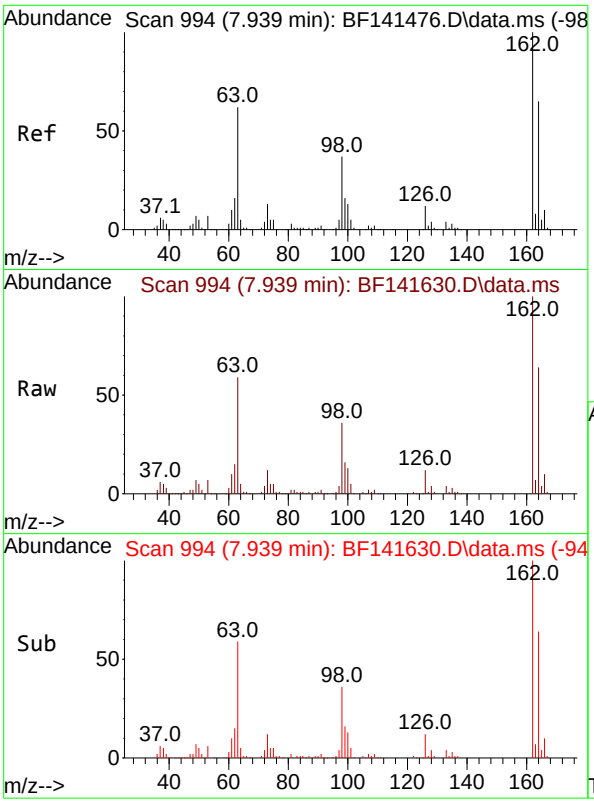


#28
bis(2-Chloroethoxy)methane
Concen: 44.396 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 93 Resp: 323428

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.1	39.1
123	11.8	9.5	14.3



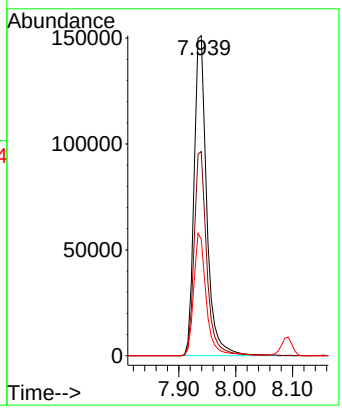


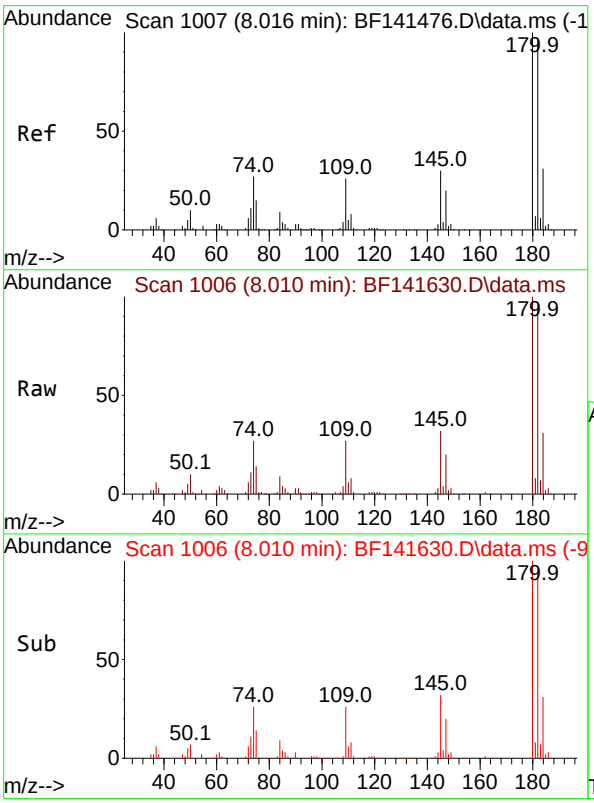
#29
2,4-Dichlorophenol
Concen: 43.145 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:162 Resp: 235576

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.6	84.6
98	36.4	17.2	57.2

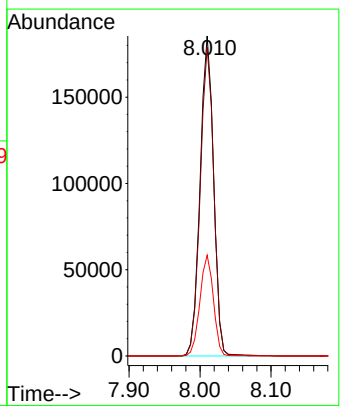


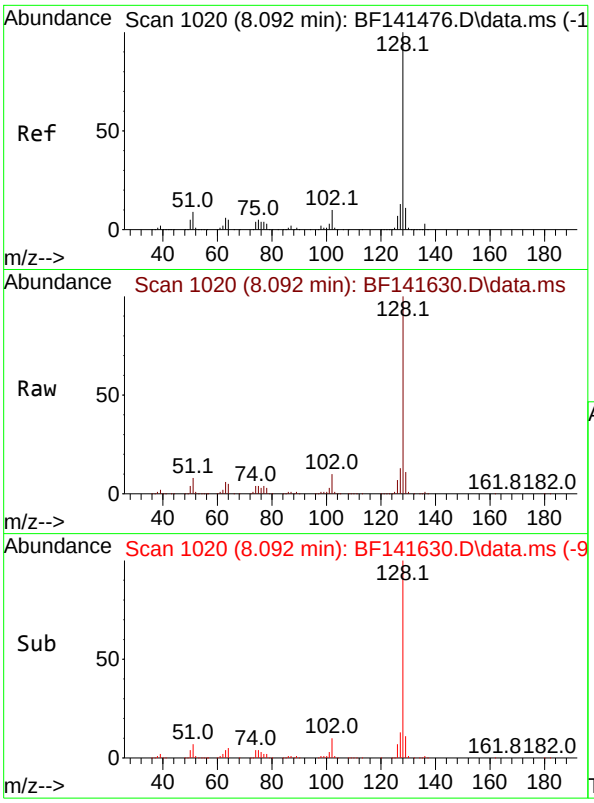


#30
1,2,4-Trichlorobenzene
Concen: 41.379 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:180 Resp: 246032

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.8	115.2
145	31.5	24.2	36.4



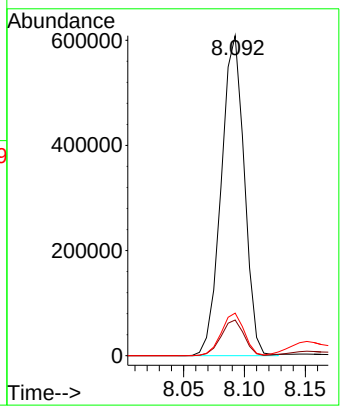


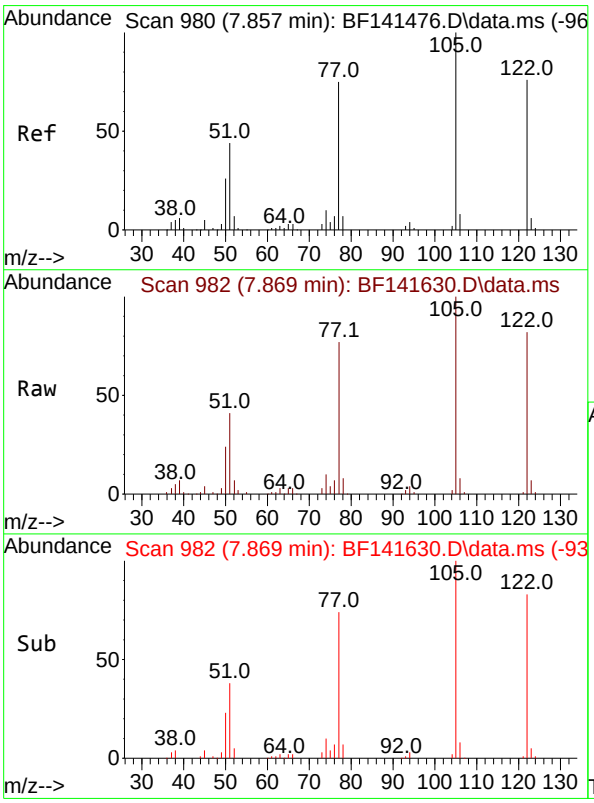
#31
Naphthalene
Concen: 41.489 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:128 Resp: 803179

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.3	10.7	16.1

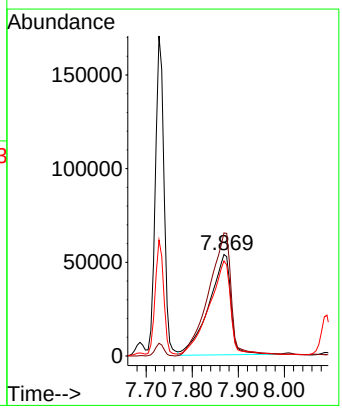


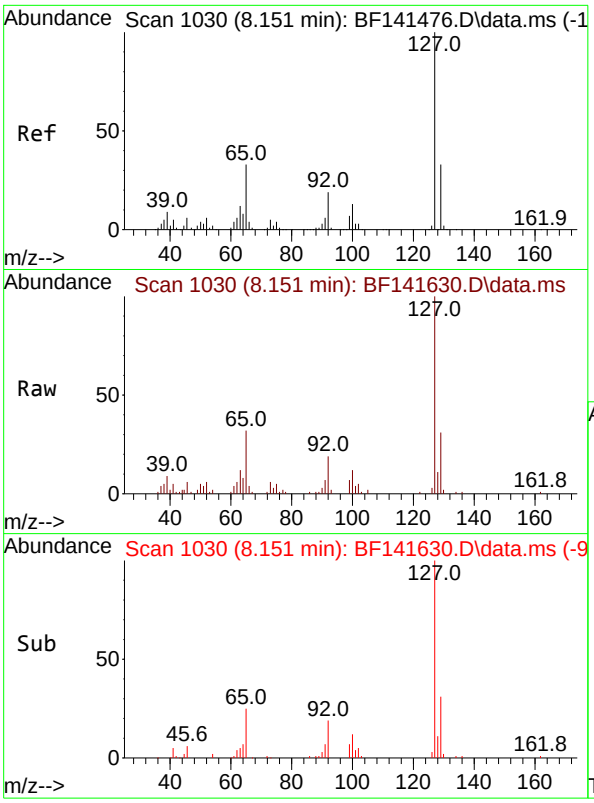


#32
Benzoic acid
Concen: 42.213 ng
RT: 7.869 min Scan# 982
Delta R.T. -0.023 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:122 Resp: 177189

Ion	Ratio	Lower	Upper
122	100		
105	121.3	106.5	146.5
77	93.7	76.3	116.3



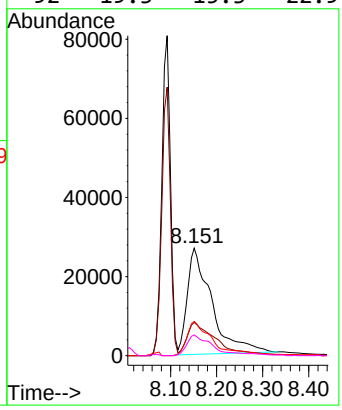


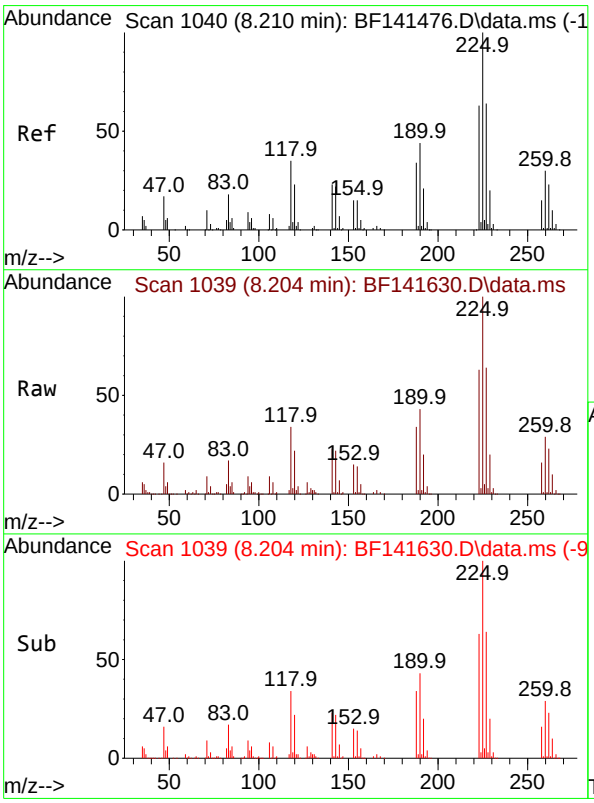
#33
4-Chloroaniline
Concen: 14.631 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:127 Resp: 98890

Ion	Ratio	Lower	Upper
127	100		
129	30.9	26.5	39.7
65	31.9	26.4	39.6
92	19.3	15.3	22.9

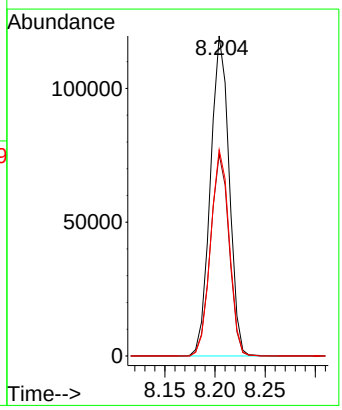


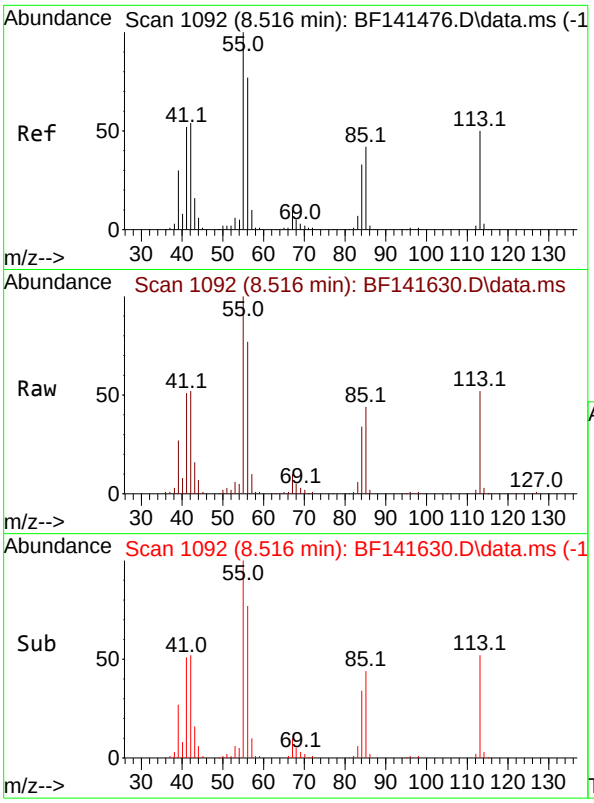


#34
Hexachlorobutadiene
Concen: 43.398 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:225 Resp: 154911

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.1	75.1
227	64.4	51.0	76.6



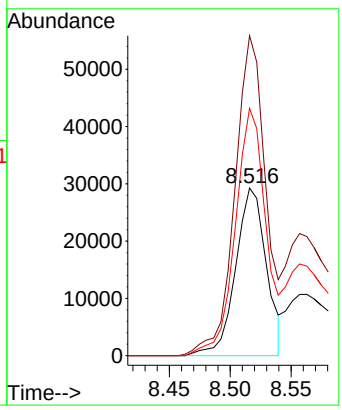


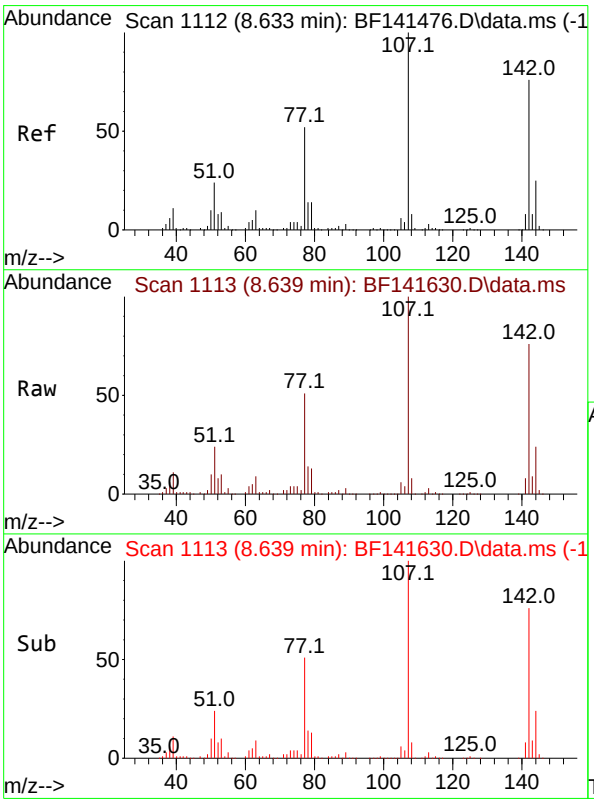
#35
Caprolactam
Concen: 30.906 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:113 Resp: 51379

Ion	Ratio	Lower	Upper
113	100		
55	190.9	180.8	220.8
56	147.6	133.6	173.6

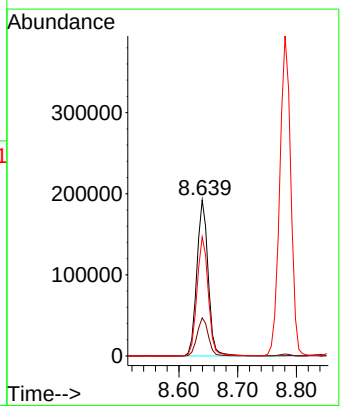


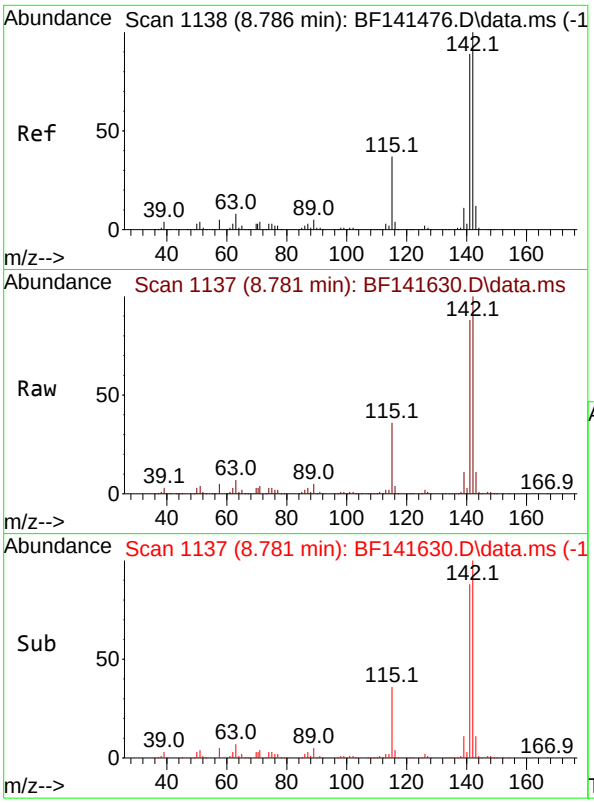


#36
4-Chloro-3-methylphenol
Concen: 42.512 ng
RT: 8.639 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:107 Resp: 257123

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.7	29.5
142	76.3	60.8	91.2



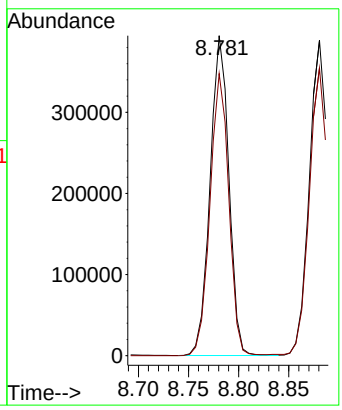


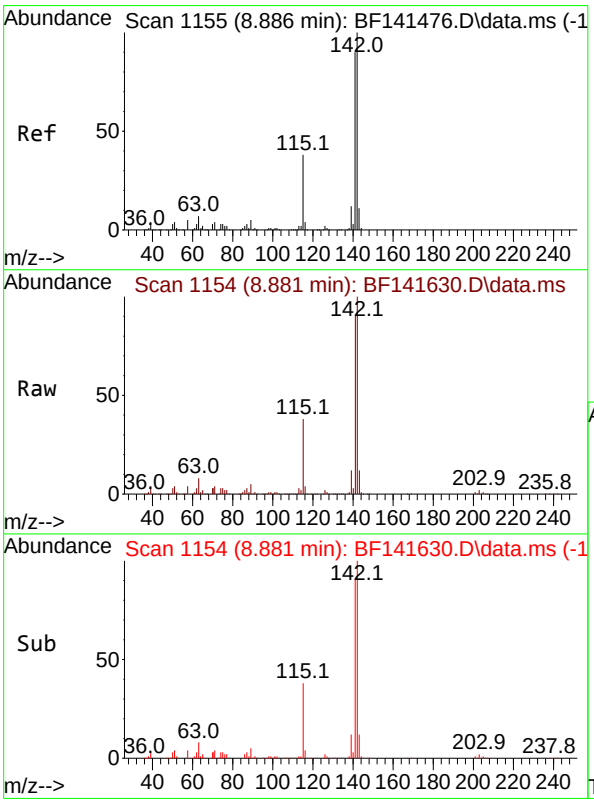
#37
2-Methylnaphthalene
Concen: 40.742 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:142 Resp: 513246

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.2	106.8

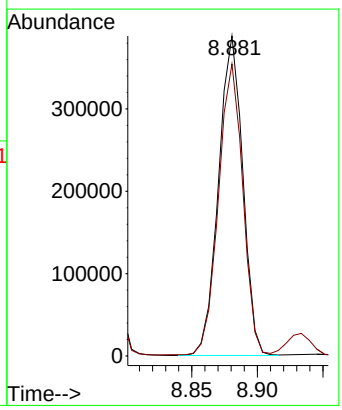


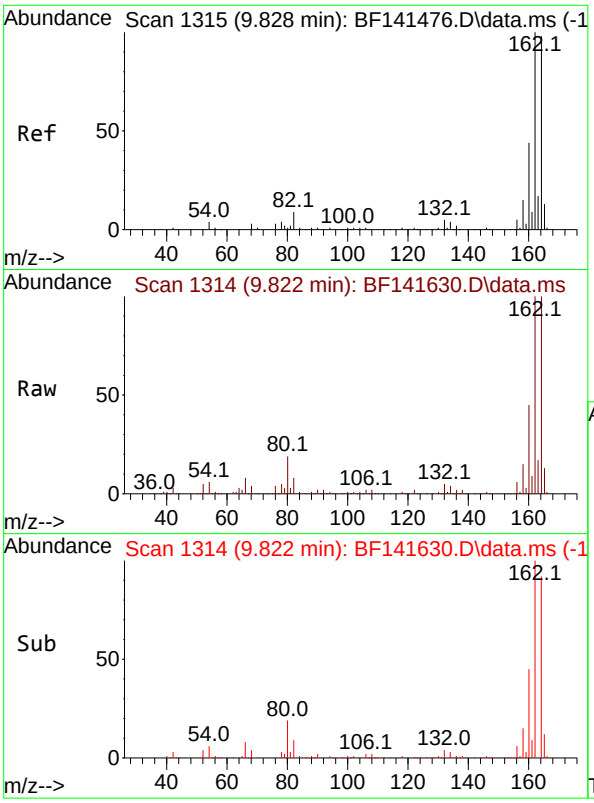


#38
1-Methylnaphthalene
Concen: 40.893 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:142 Resp: 498933

Ion	Ratio	Lower	Upper
142	100		
141	91.3	72.1	108.1



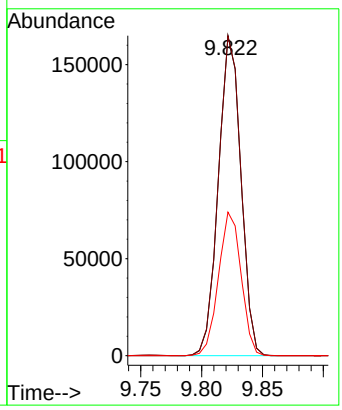


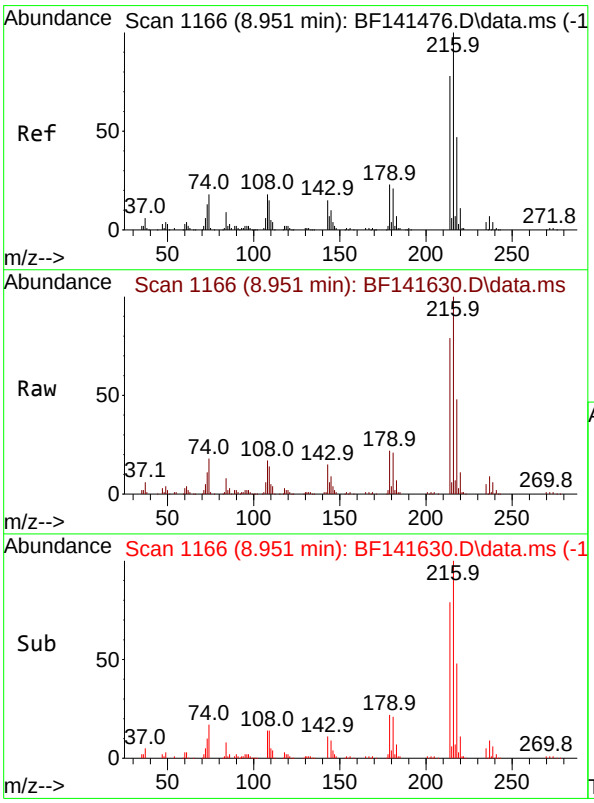
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:164 Resp: 212243

Ion	Ratio	Lower	Upper
164	100		
162	99.8	81.3	121.9
160	44.9	35.9	53.9

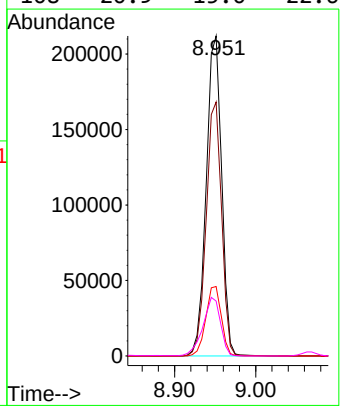


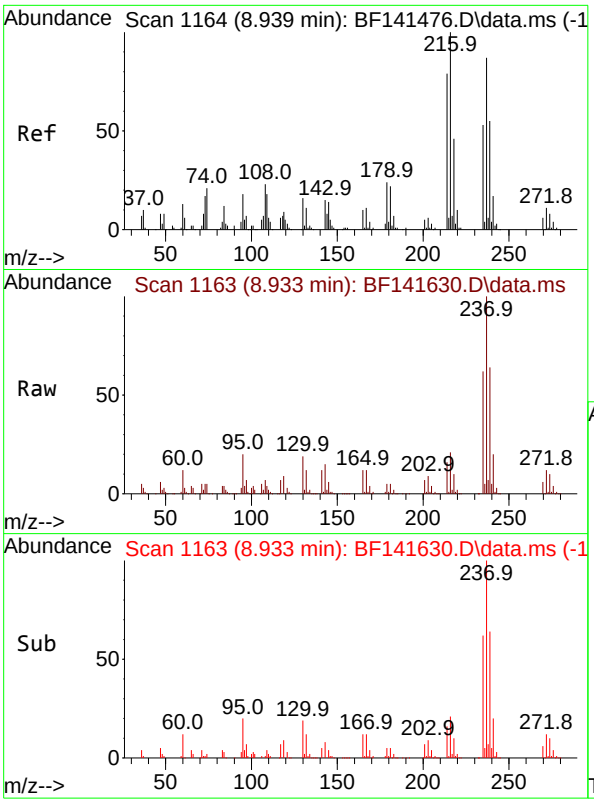


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.430 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:216 Resp: 278963

Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.3	93.5
179	21.9	18.0	27.0
108	20.9	15.0	22.6



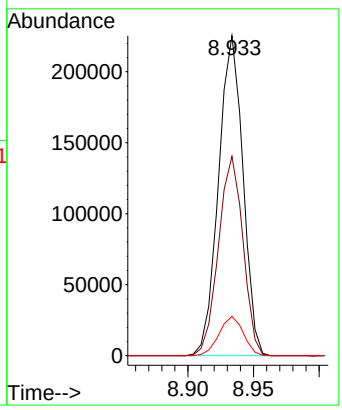


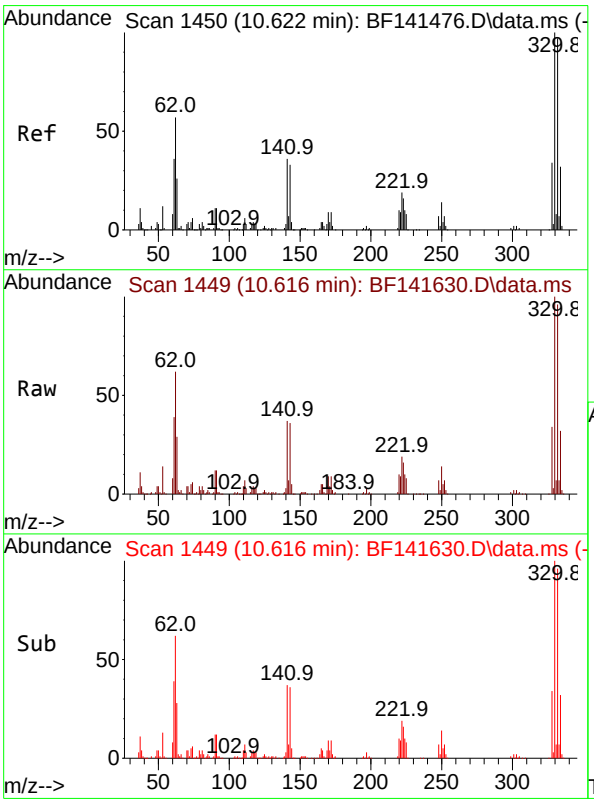
#41
Hexachlorocyclopentadiene
Concen: 142.852 ng
RT: 8.933 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:237 Resp: 291755

Ion	Ratio	Lower	Upper
237	100		
235	62.3	41.4	81.4
272	12.3	0.0	32.4

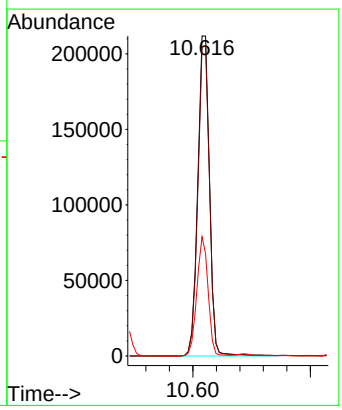


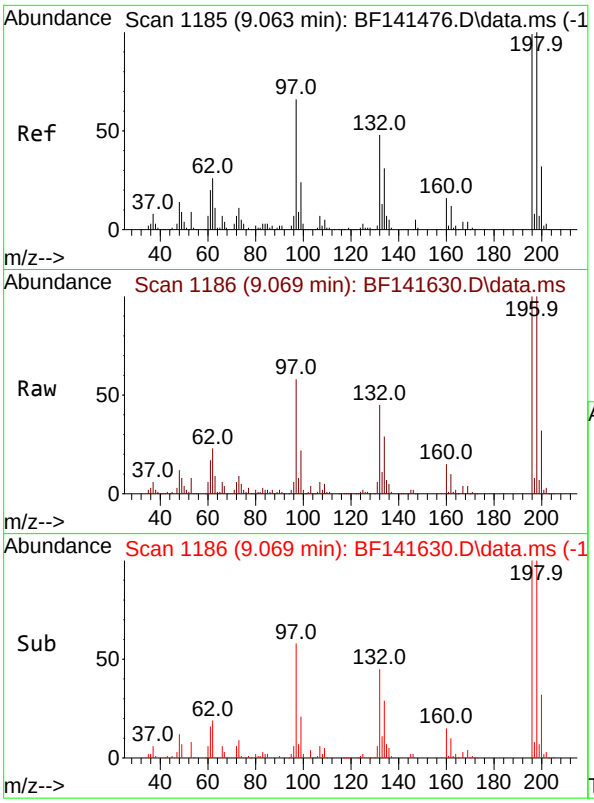


#42
2,4,6-Tribromophenol
Concen: 137.479 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:330 Resp: 293116

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.5	117.7
141	35.5	31.0	46.4



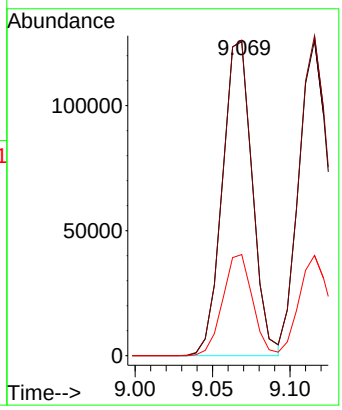


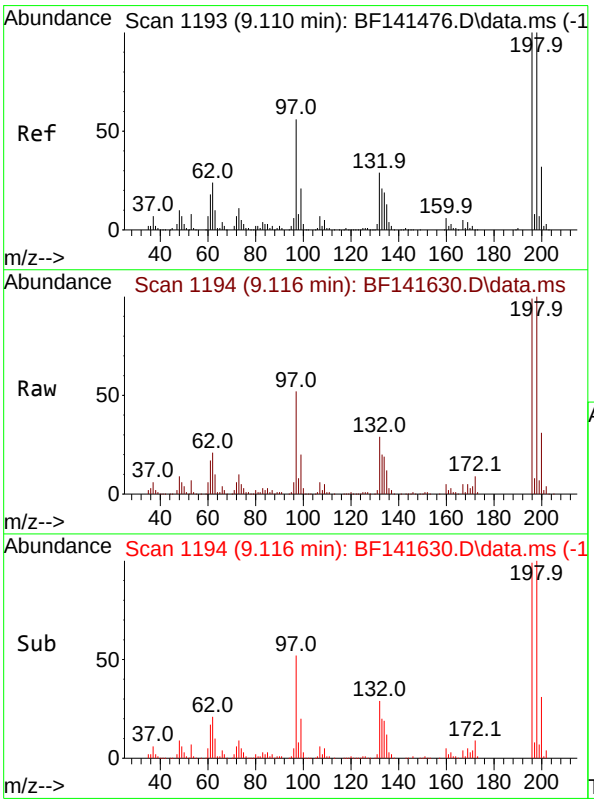
#43
2,4,6-Trichlorophenol
Concen: 42.540 ng
RT: 9.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:196 Resp: 168826

Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.6	121.0
200	32.2	25.5	38.3

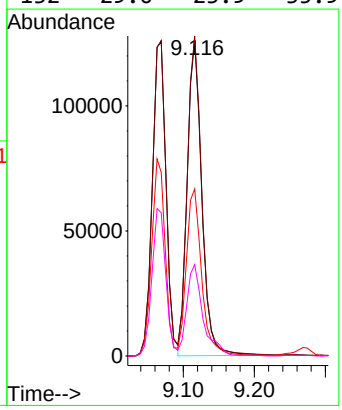


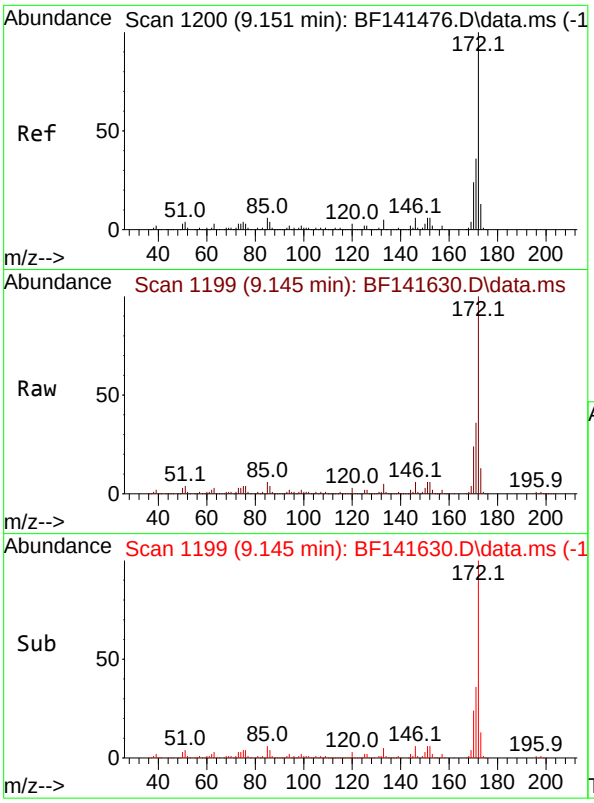


#44
2,4,5-Trichlorophenol
Concen: 41.630 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:196 Resp: 179056

Ion	Ratio	Lower	Upper
196	100		
198	101.5	79.8	119.8
97	53.0	44.8	67.2
132	29.0	23.9	35.9



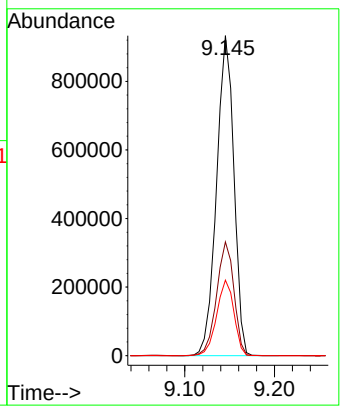


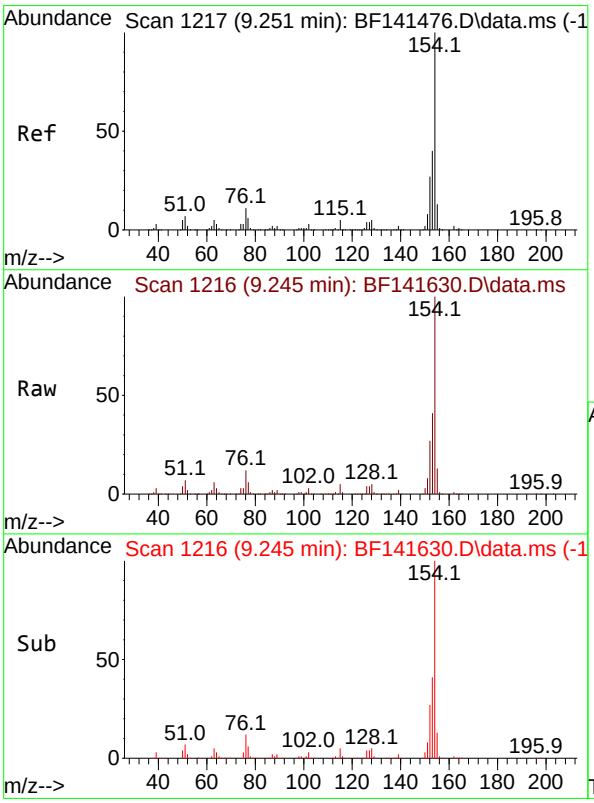
#45
2-Fluorobiphenyl
Concen: 90.996 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:172 Resp: 1253581

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.6	18.9	28.3

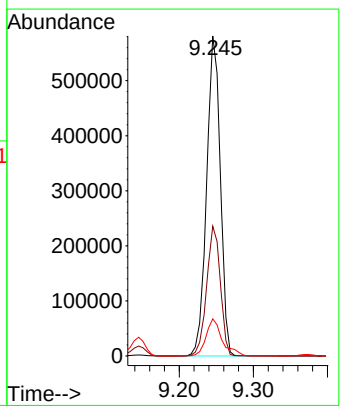


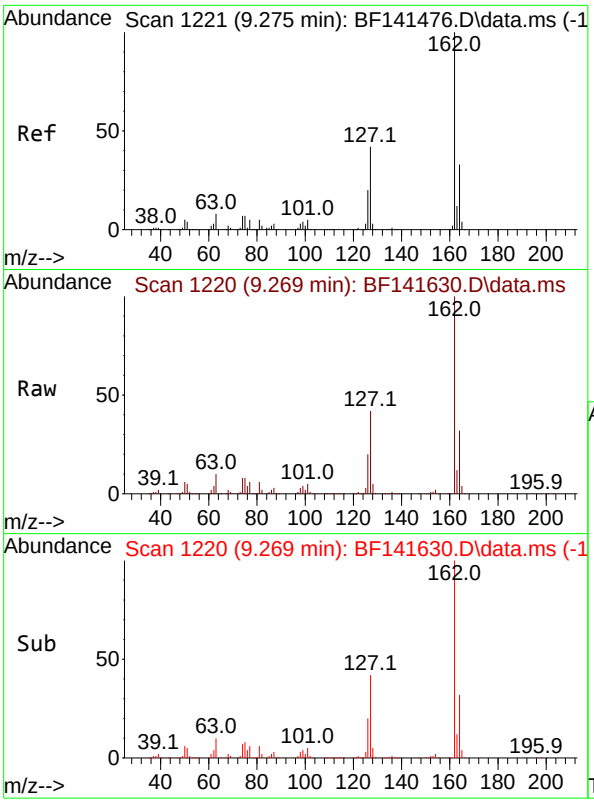


#46
1,1'-Biphenyl
Concen: 45.328 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:154 Resp: 745855

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.4	60.4
76	11.6	0.0	30.8



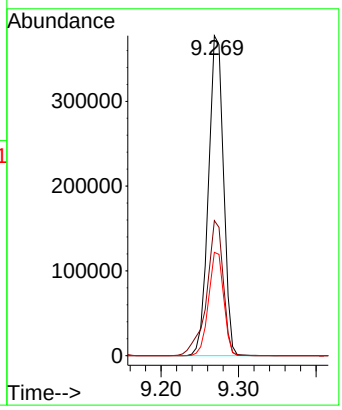


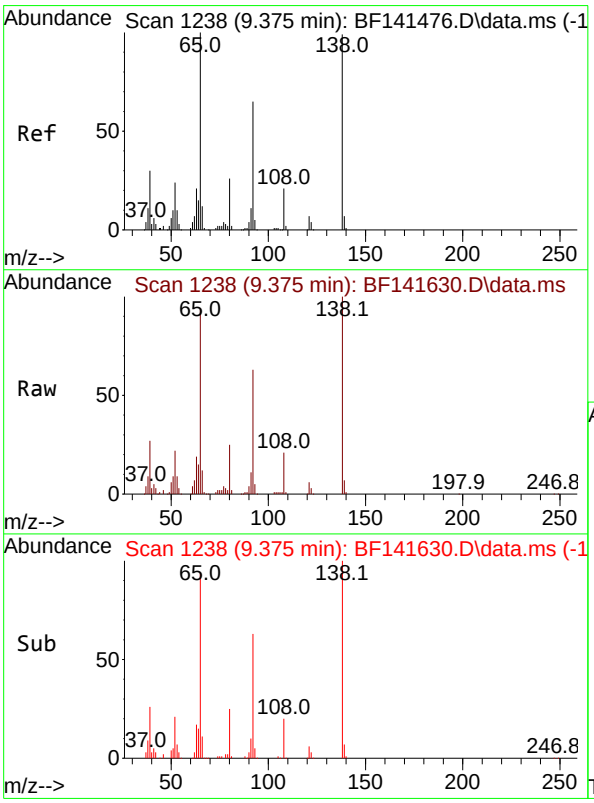
#47
2-Chloronaphthalene
Concen: 41.818 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:162 Resp: 508835

Ion	Ratio	Lower	Upper
162	100		
127	42.2	34.1	51.1
164	32.3	26.3	39.5

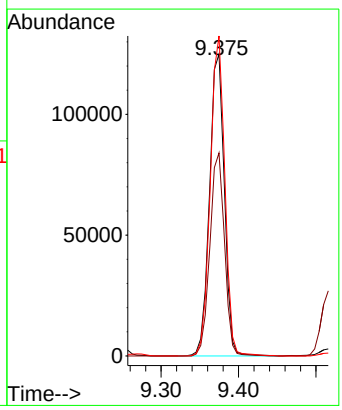


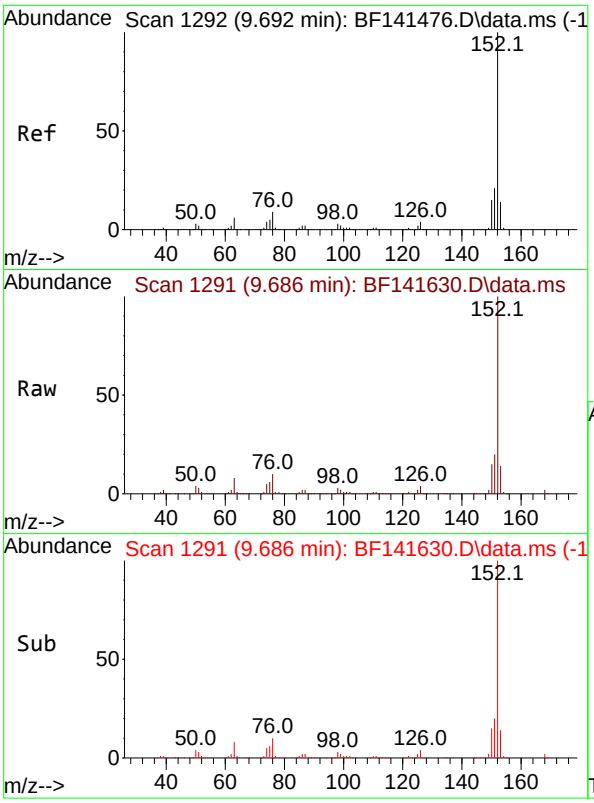


#48
2-Nitroaniline
Concen: 40.689 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion: 65 Resp: 166155

Ion	Ratio	Lower	Upper
65	100		
92	67.2	52.2	78.2
138	106.0	79.5	119.3



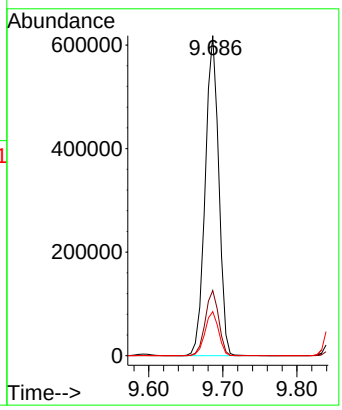


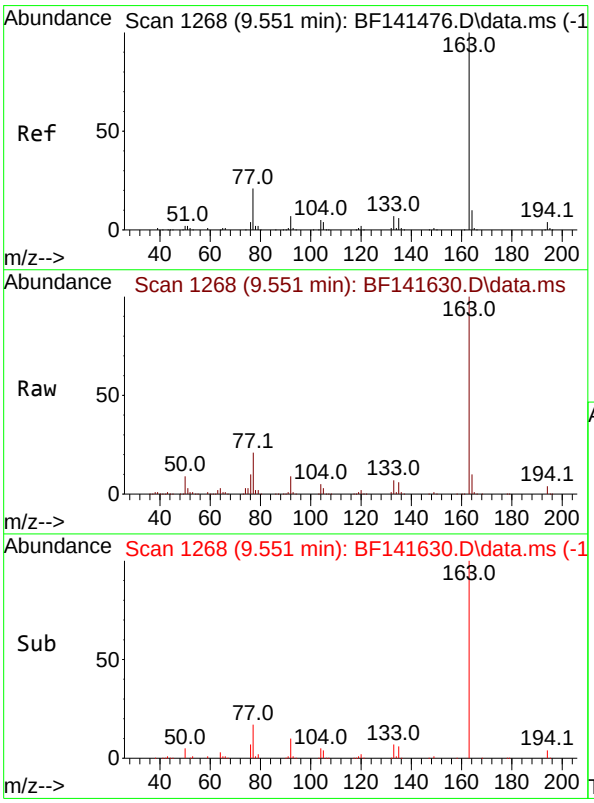
#49
Acenaphthylene
Concen: 43.362 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:152 Resp: 784782

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.8	10.9	16.3

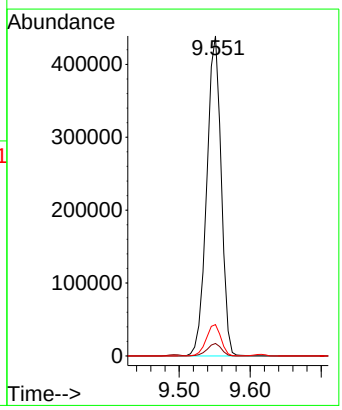


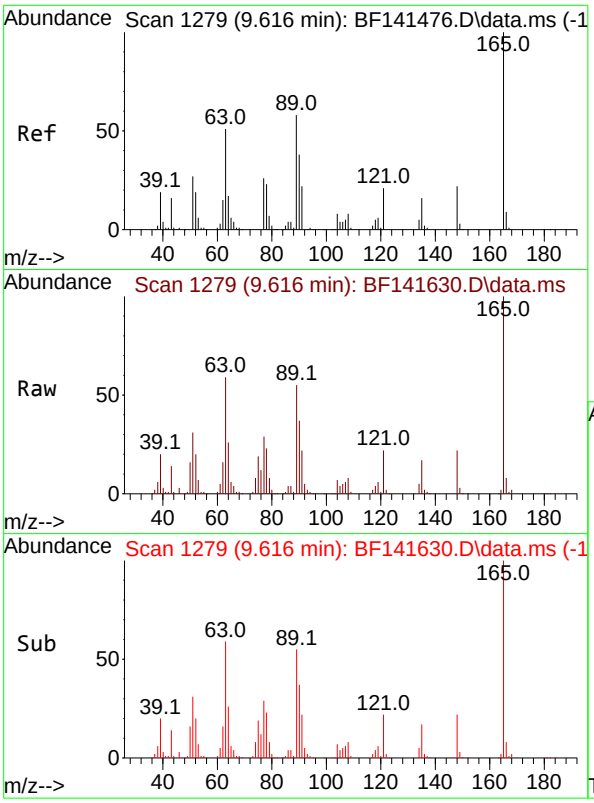


#50
Dimethylphthalate
Concen: 43.167 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:163 Resp: 621981

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.4
164	9.8	7.9	11.9



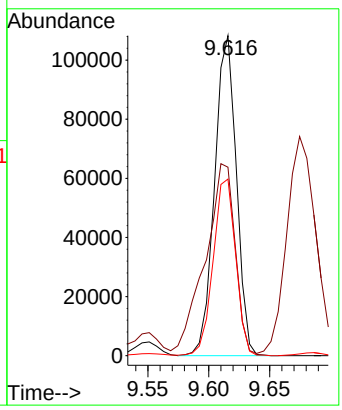


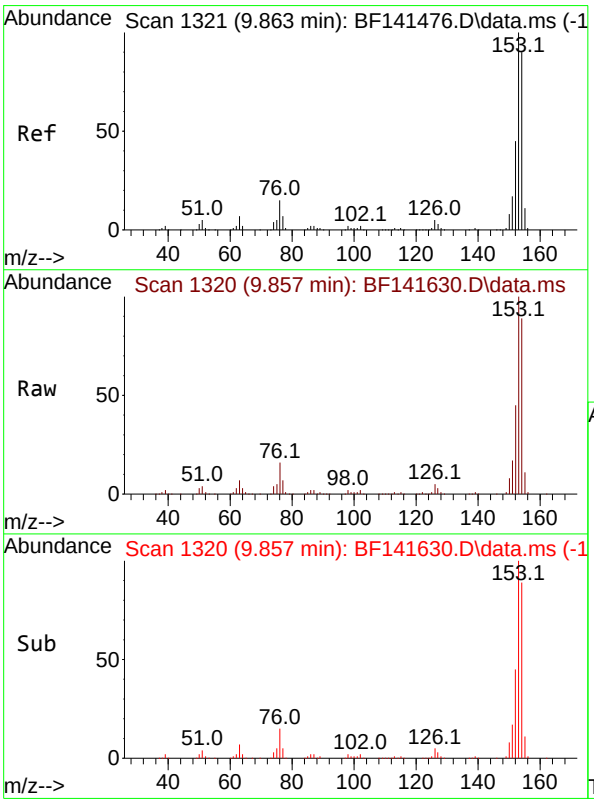
#51
2,6-Dinitrotoluene
Concen: 42.838 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:165 Resp: 134931

Ion	Ratio	Lower	Upper
165	100		
63	58.9	49.4	74.0
89	55.2	46.5	69.7

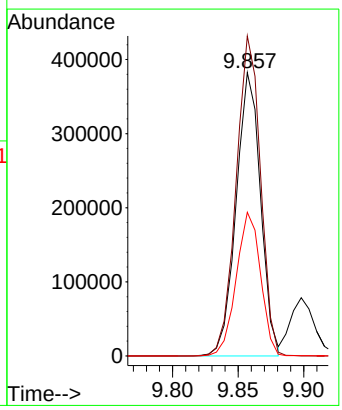


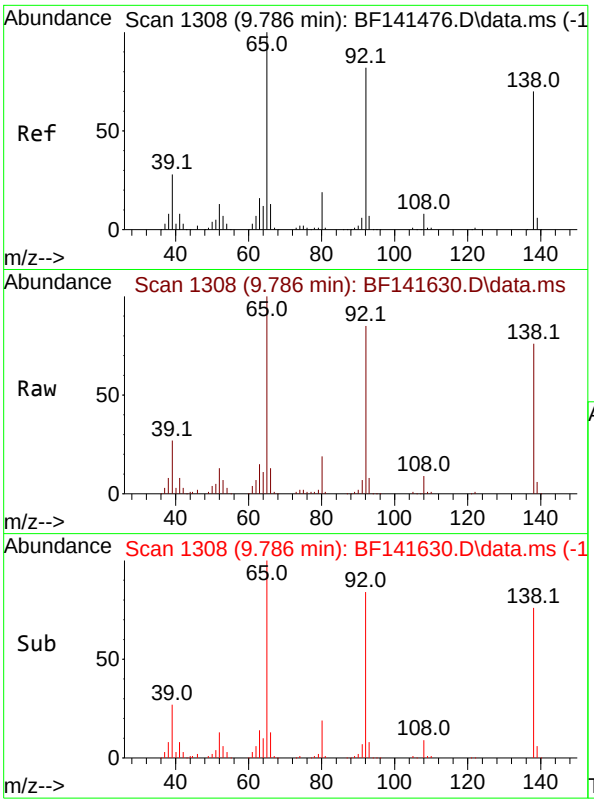


#52
Acenaphthene
Concen: 40.742 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:154 Resp: 495714

Ion	Ratio	Lower	Upper
154	100		
153	112.9	89.2	133.8
152	50.7	39.8	59.8



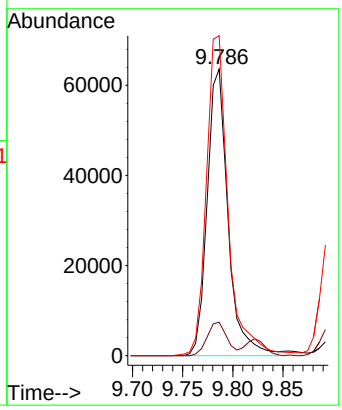


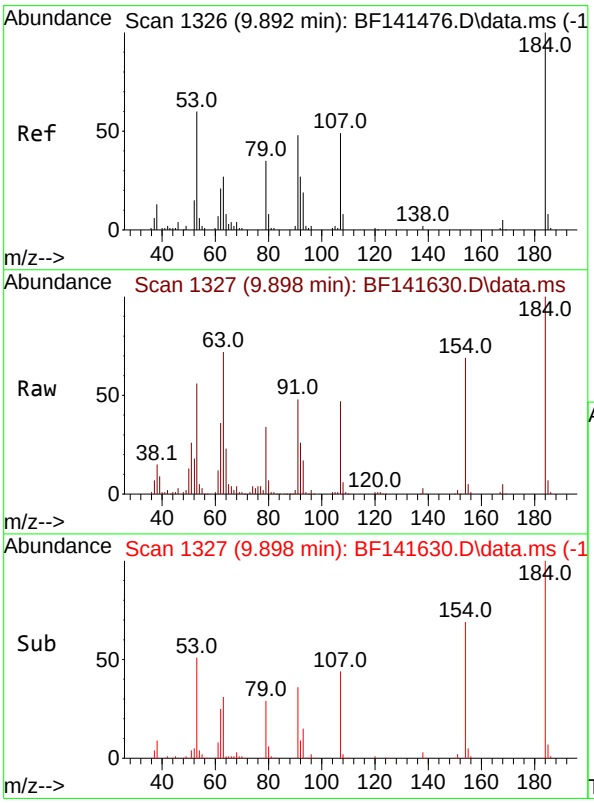
#53
3-Nitroaniline
Concen: 27.093 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:138 Resp: 91850

Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.0	13.4
92	111.6	93.7	140.5

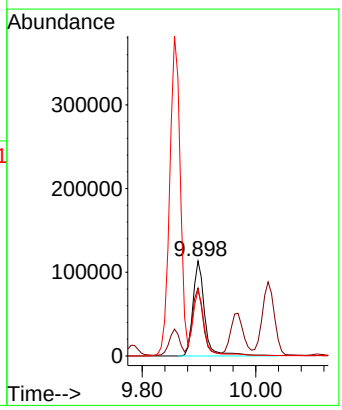


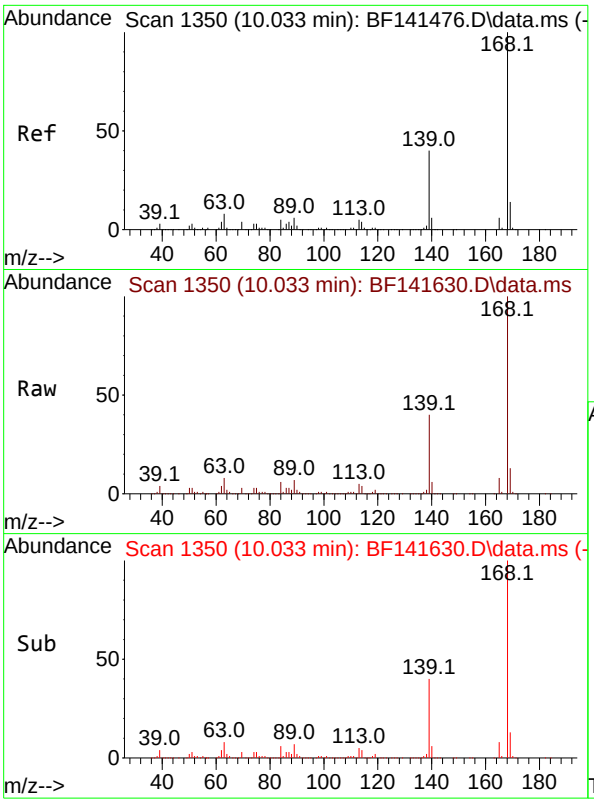


#54
2,4-Dinitrophenol
Concen: 87.647 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:184 Resp: 164078

Ion	Ratio	Lower	Upper
184	100		
63	71.6	61.0	91.6
154	69.3	59.9	89.9



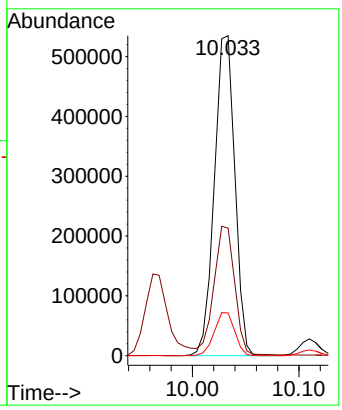


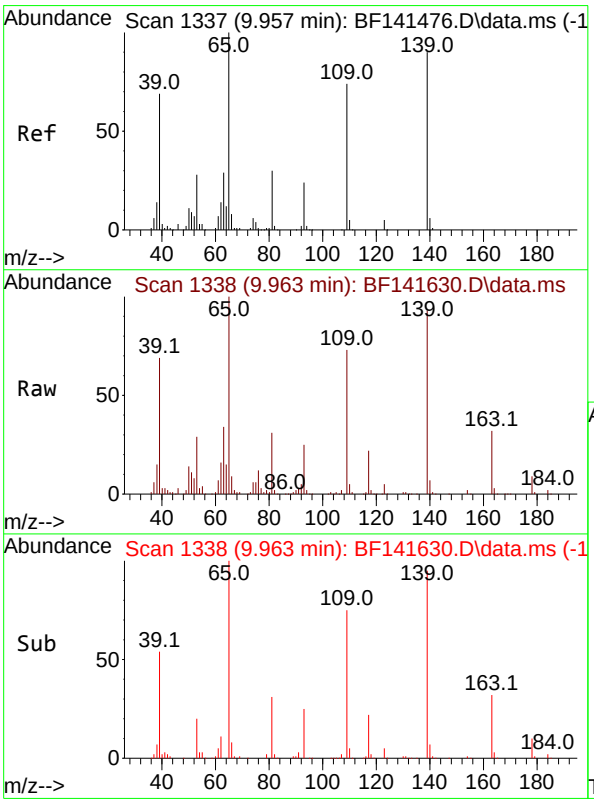
#55
Dibenzofuran
Concen: 39.970 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:168 Resp: 713832

Ion	Ratio	Lower	Upper
168	100		
139	39.9	32.7	49.1
169	13.4	10.8	16.2

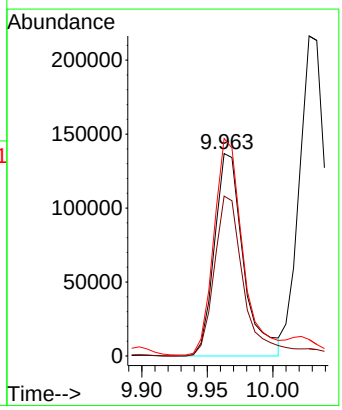


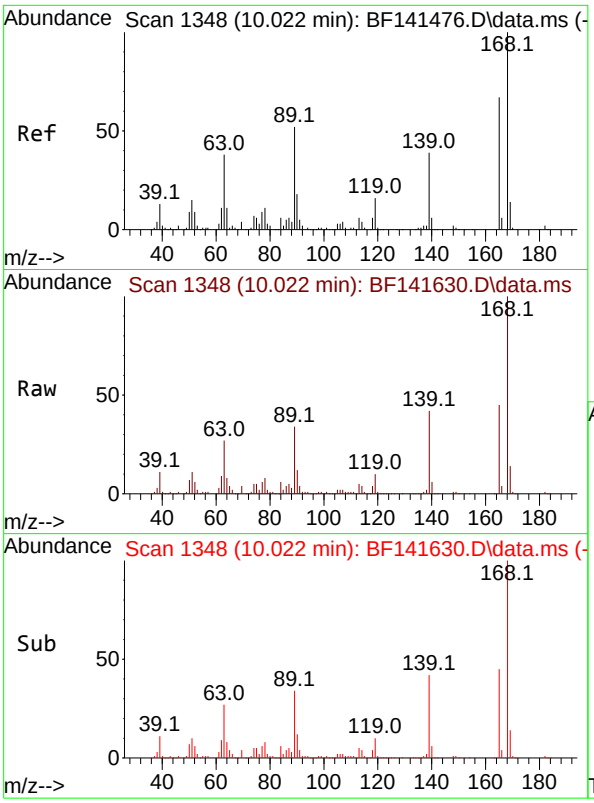


#56
4-Nitrophenol
Concen: 83.475 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:139 Resp: 210075

Ion	Ratio	Lower	Upper
139	100		
109	79.0	62.0	102.0
65	107.5	91.2	131.2



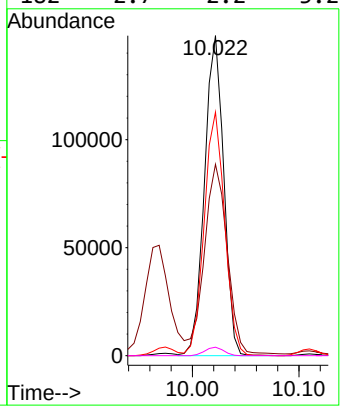


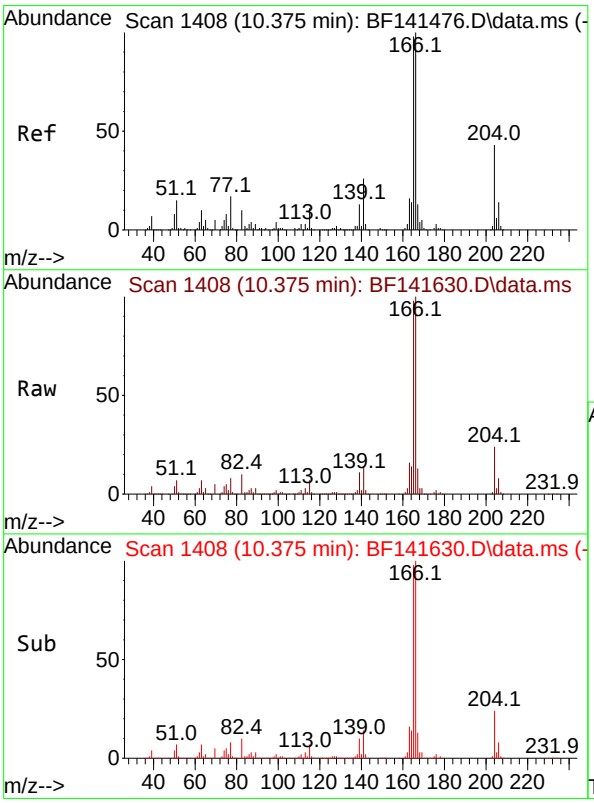
#57
2,4-Dinitrotoluene
Concen: 44.364 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:165 Resp: 186028

Ion	Ratio	Lower	Upper
165	100		
63	59.8	46.4	69.6
89	76.1	61.8	92.6
182	2.7	2.2	3.2

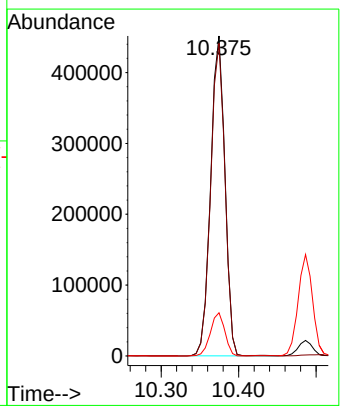


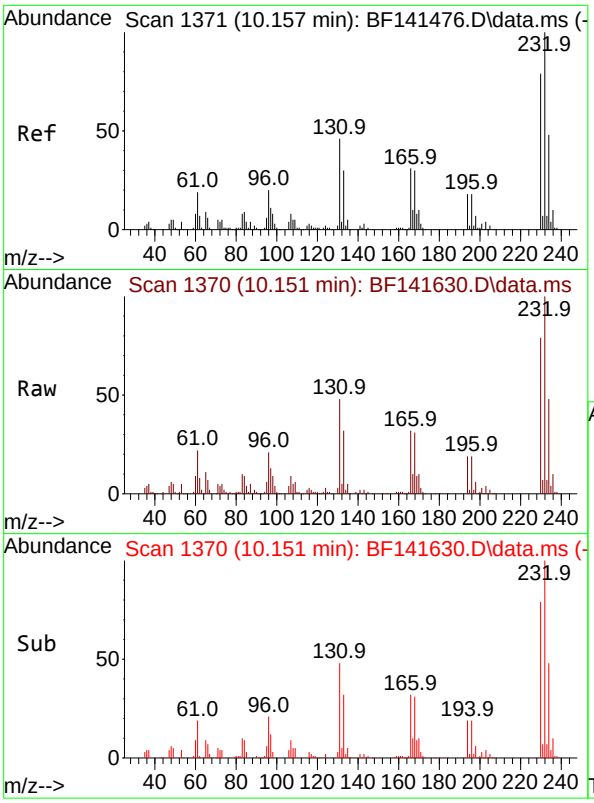


#58
Fluorene
Concen: 41.824 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:166 Resp: 577543

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.2
167	13.5	10.7	16.1



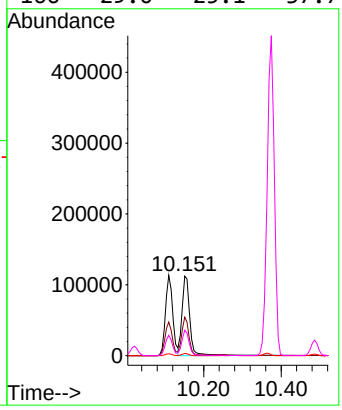


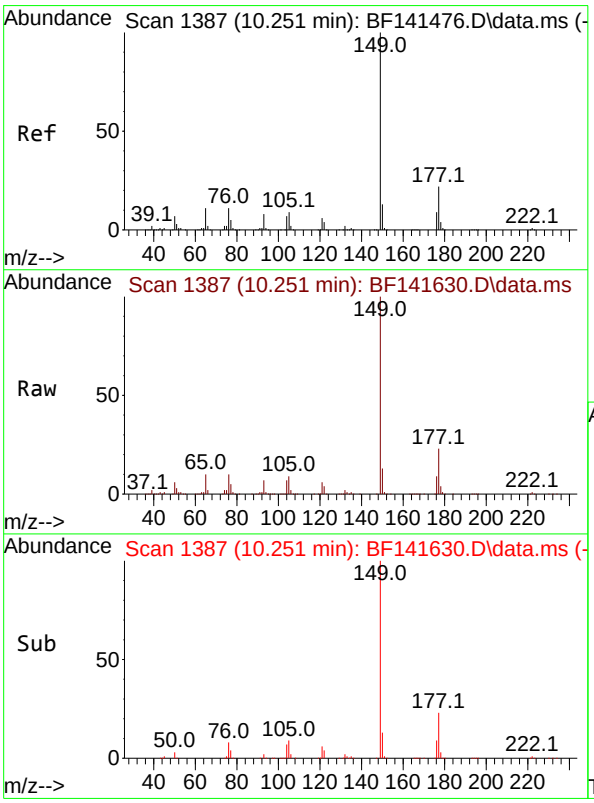
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.470 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:232 Resp: 157267

Ion	Ratio	Lower	Upper
232	100		
131	45.2	39.2	58.8
130	2.4	2.1	3.1
166	29.0	25.1	37.7

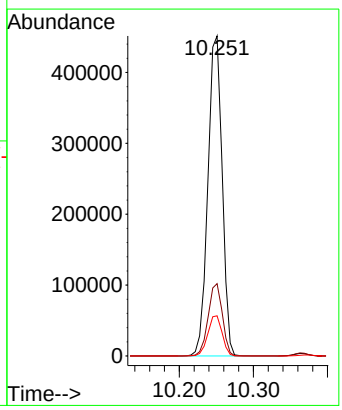


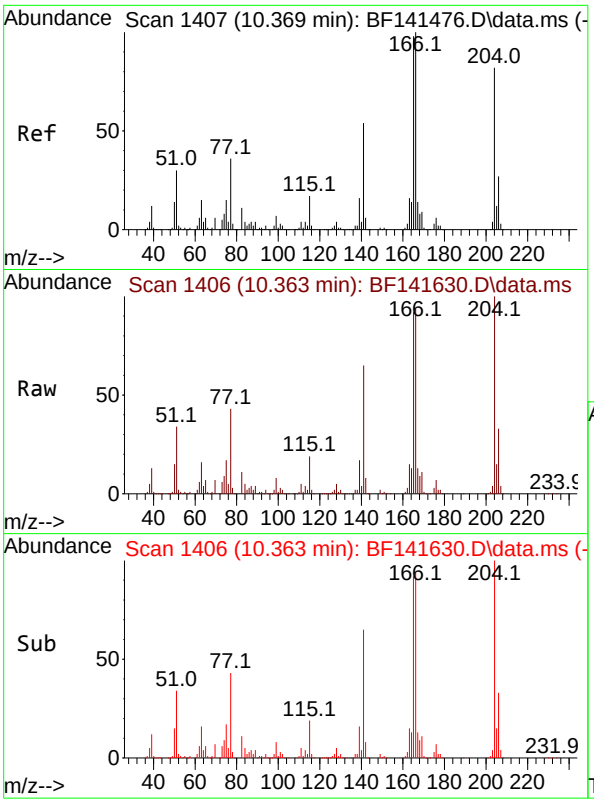


#60
Diethylphthalate
Concen: 42.608 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 604022

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.8	26.6
150	12.5	10.1	15.1



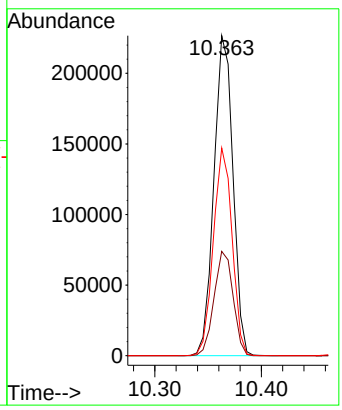


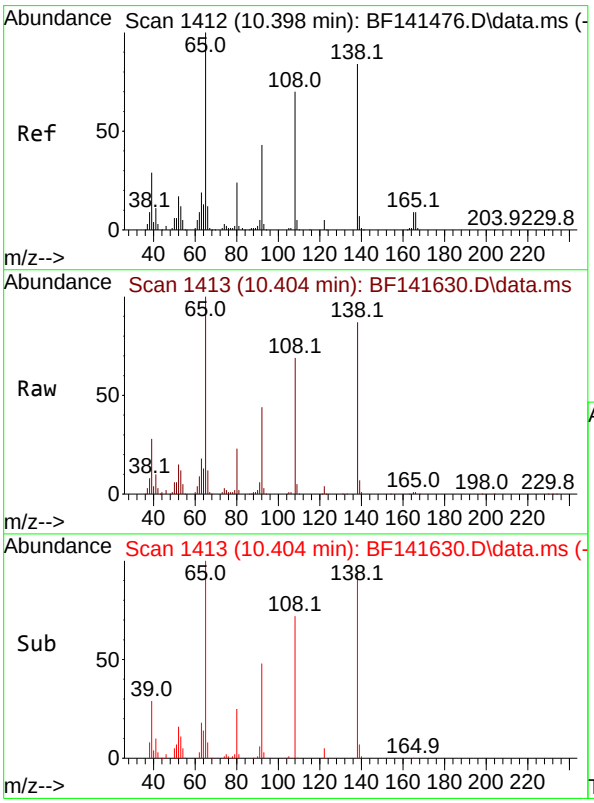
#61
4-Chlorophenyl-phenylether
Concen: 42.229 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:204 Resp: 280535

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.6	40.0
141	64.9	51.9	77.9

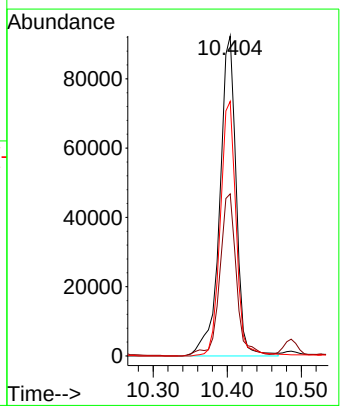


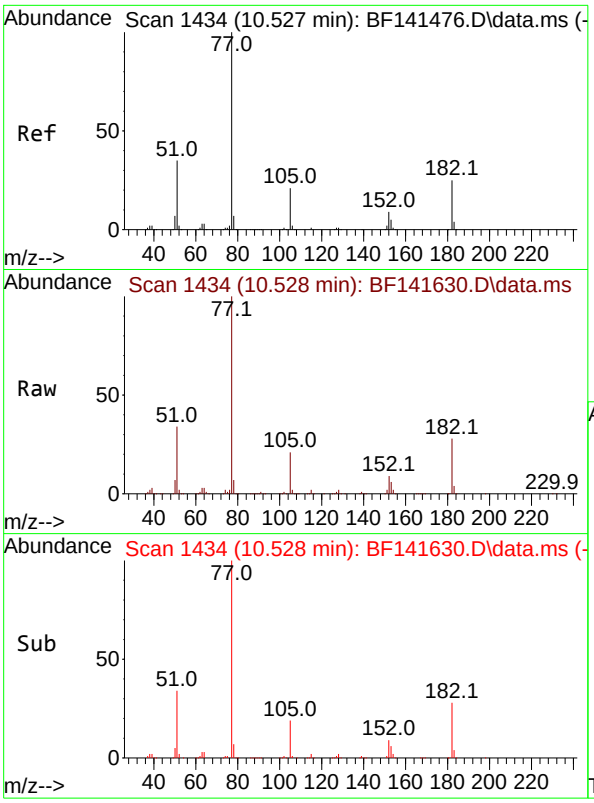


#62
4-Nitroaniline
Concen: 41.281 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:138 Resp: 142107

Ion	Ratio	Lower	Upper
138	100		
92	50.7	31.3	71.3
108	79.5	63.7	103.7



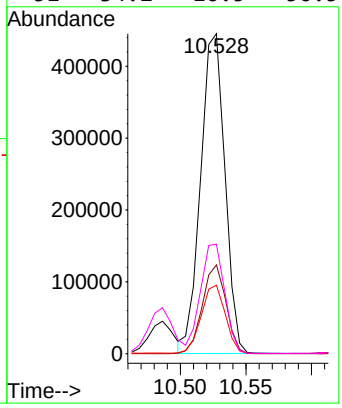


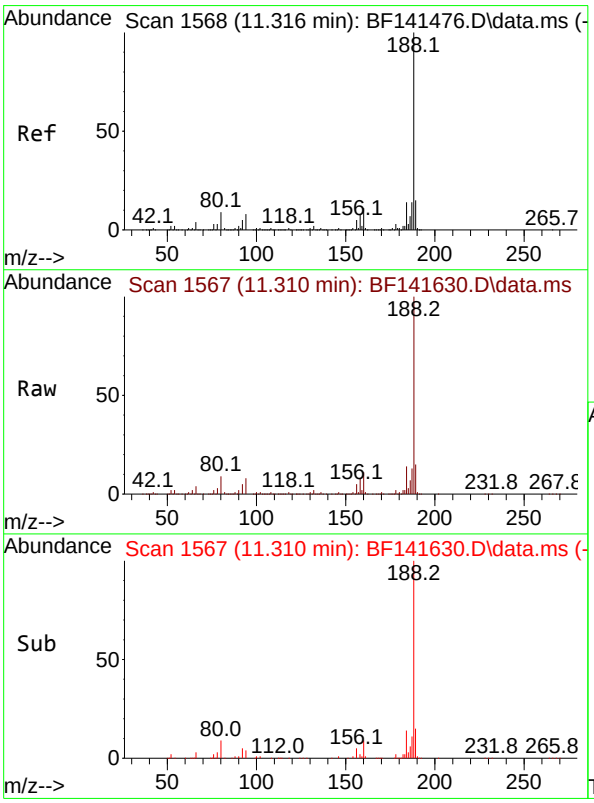
#63
Azobenzene
Concen: 40.824 ng
RT: 10.528 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion: 77 Resp: 575345

Ion	Ratio	Lower	Upper
77	100		
182	27.7	4.7	44.7
105	21.4	0.4	40.4
51	34.2	16.5	56.5

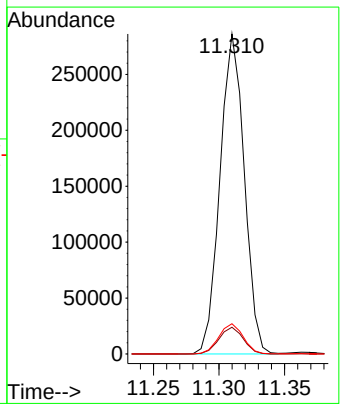


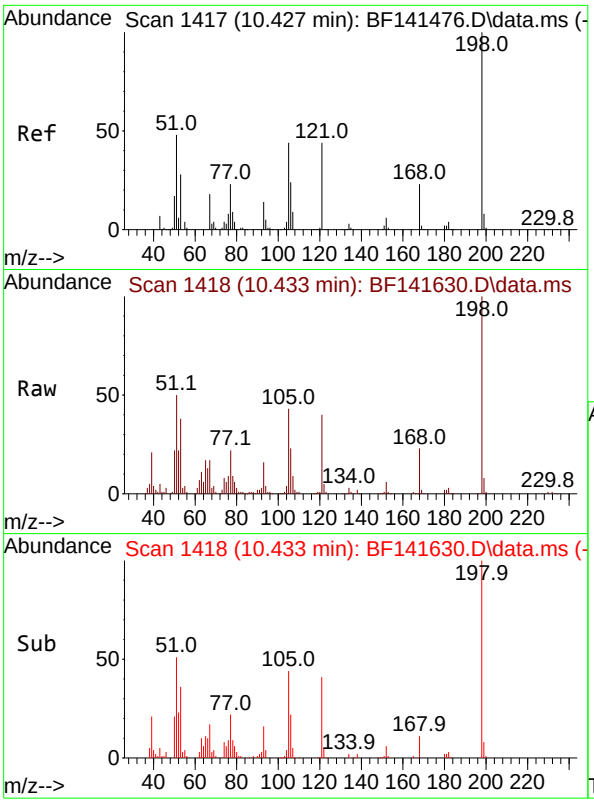


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:188 Resp: 368683

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.6	10.0
80	9.5	7.3	10.9



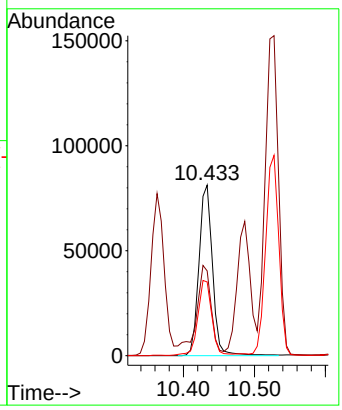


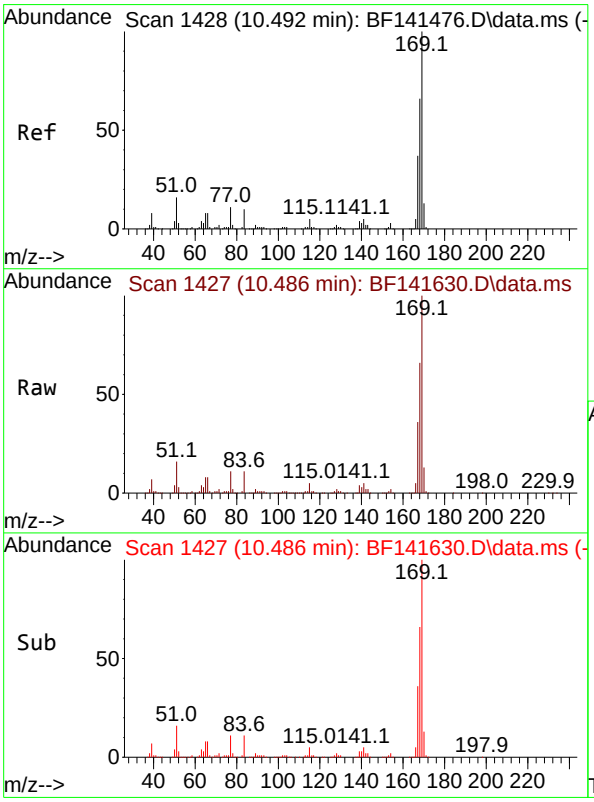
#65
4,6-Dinitro-2-methylphenol
Concen: 42.200 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:198 Resp: 108077

Ion	Ratio	Lower	Upper
198	100		
51	49.7	37.4	77.4
105	43.3	25.2	65.2

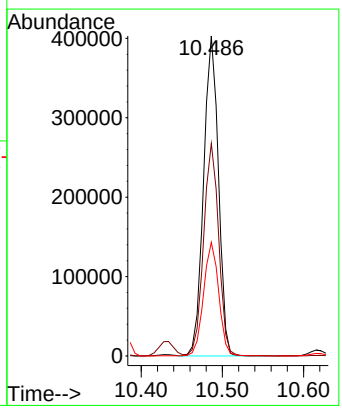


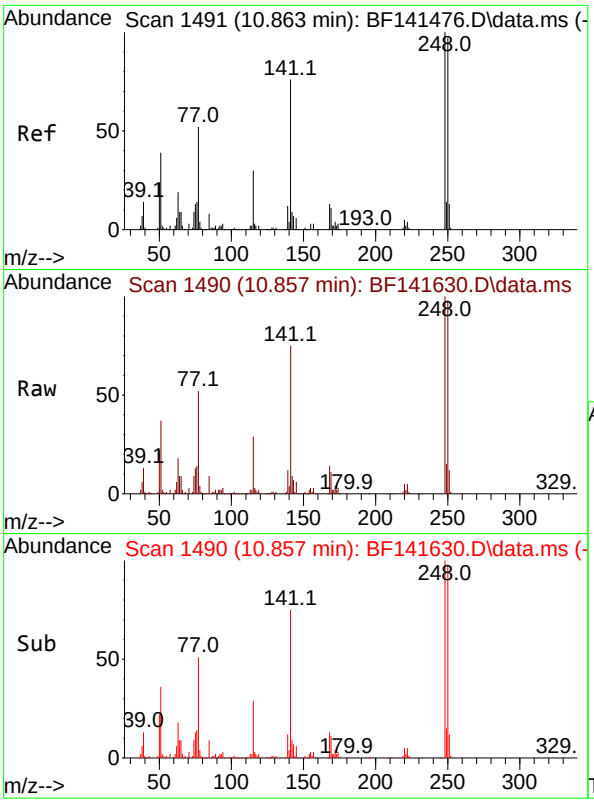


#66
n-Nitrosodiphenylamine
Concen: 43.316 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:169 Resp: 511215

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.3	79.9
167	35.5	29.4	44.2



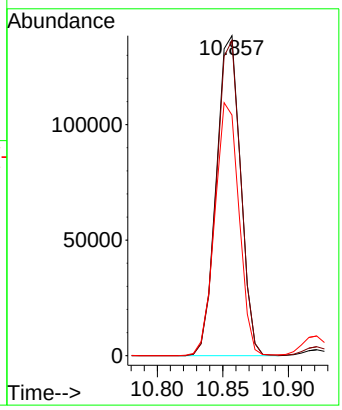


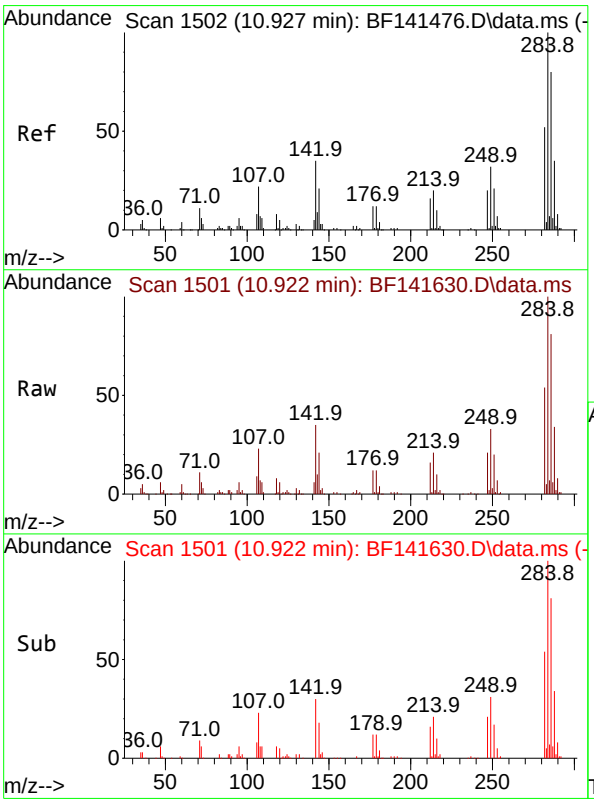
#67
4-Bromophenyl-phenylether
Concen: 43.211 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:248 Resp: 178050

Ion	Ratio	Lower	Upper
248	100		
250	98.4	77.8	116.6
141	75.2	60.6	90.8

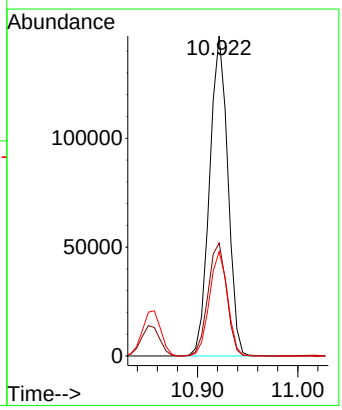


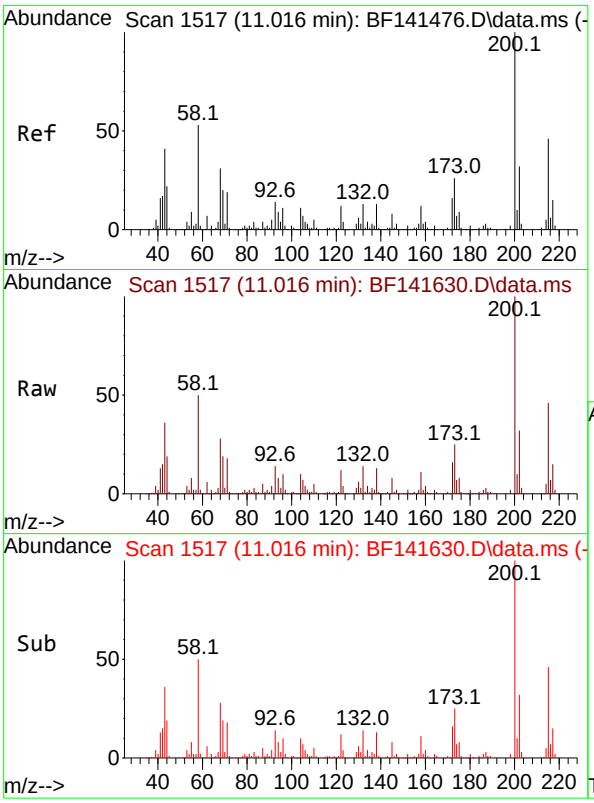


#68
Hexachlorobenzene
Concen: 43.733 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:284 Resp: 185558

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.0	42.0
249	32.6	25.8	38.8



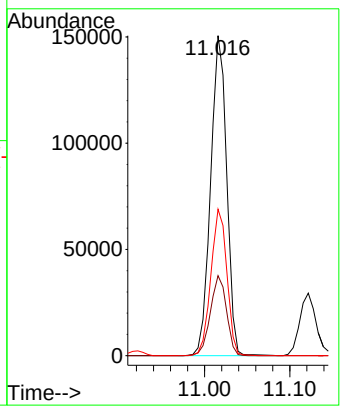


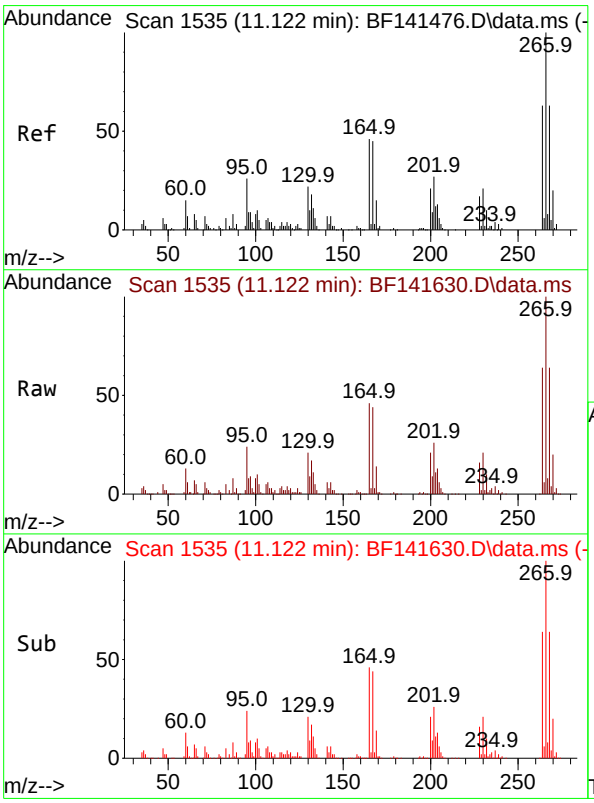
#69
Atrazine
Concen: 55.640 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:200 Resp: 196997

Ion	Ratio	Lower	Upper
200	100		
173	25.0	5.9	45.9
215	45.7	25.9	65.9

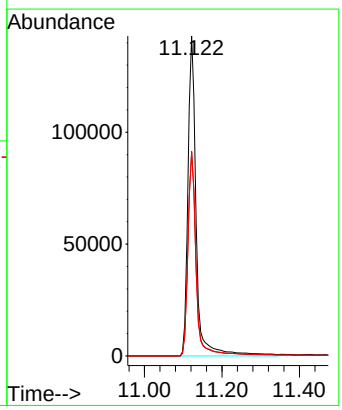


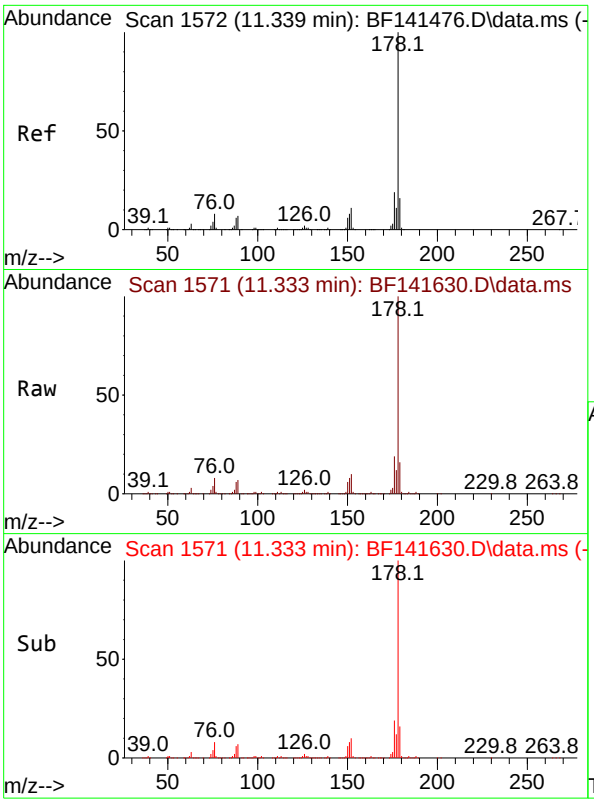


#70
Pentachlorophenol
Concen: 78.233 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:266 Resp: 212252

Ion	Ratio	Lower	Upper
266	100		
268	63.9	50.1	75.1
264	63.8	50.1	75.1



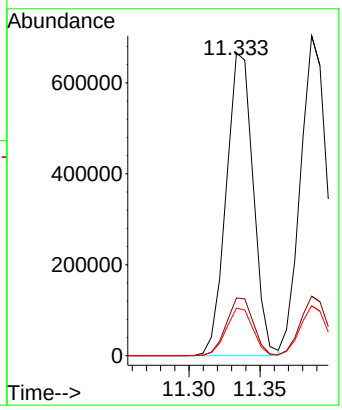


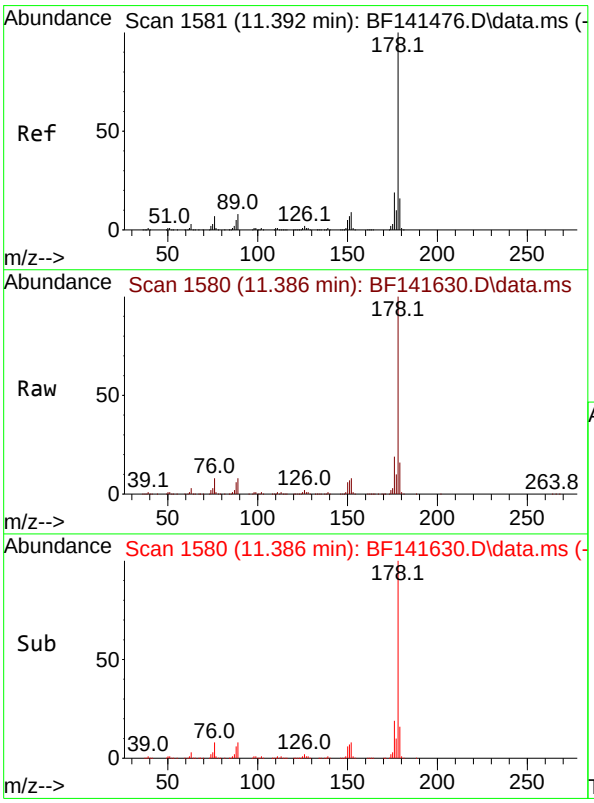
#71
Phenanthrene
Concen: 43.385 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:178 Resp: 880466

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.7	12.4	18.6

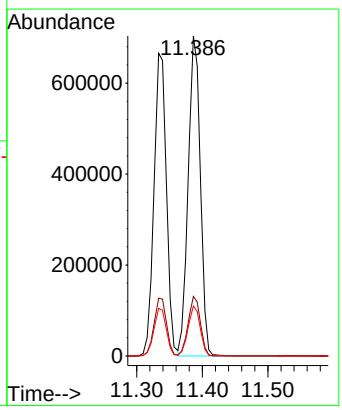


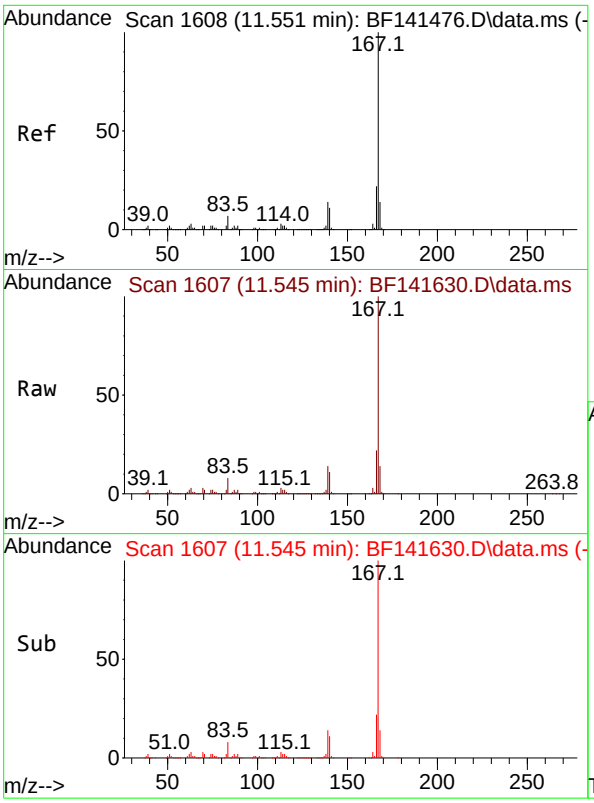


#72
Anthracene
Concen: 44.317 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:178 Resp: 904106

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.6	12.4	18.6



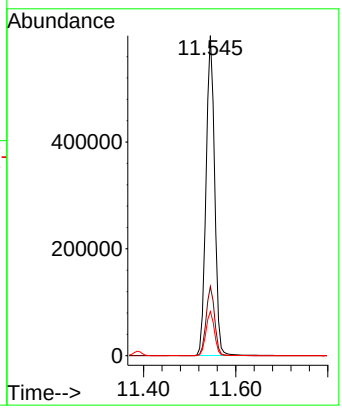


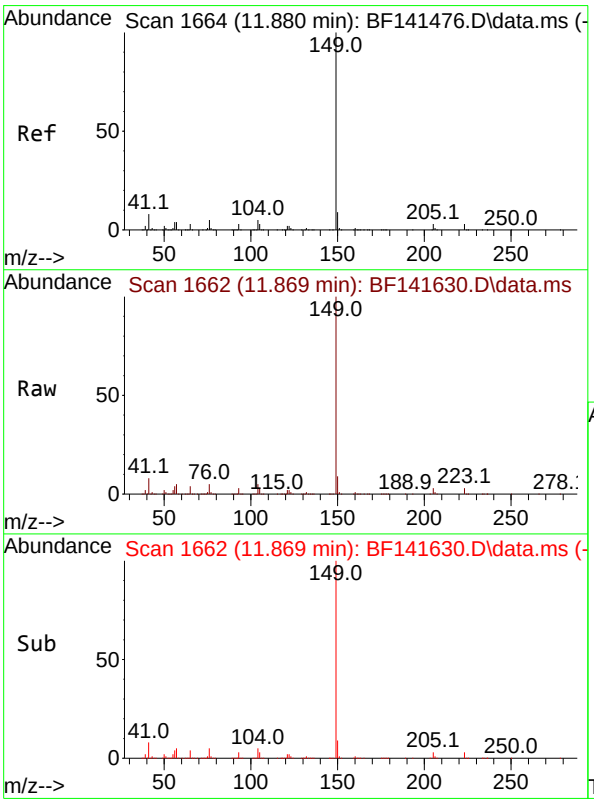
#73
Carbazole
Concen: 42.707 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:167 Resp: 783953

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.8	10.9	16.3

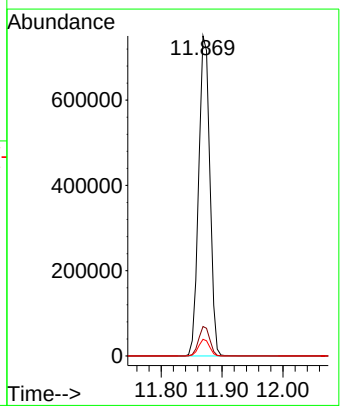


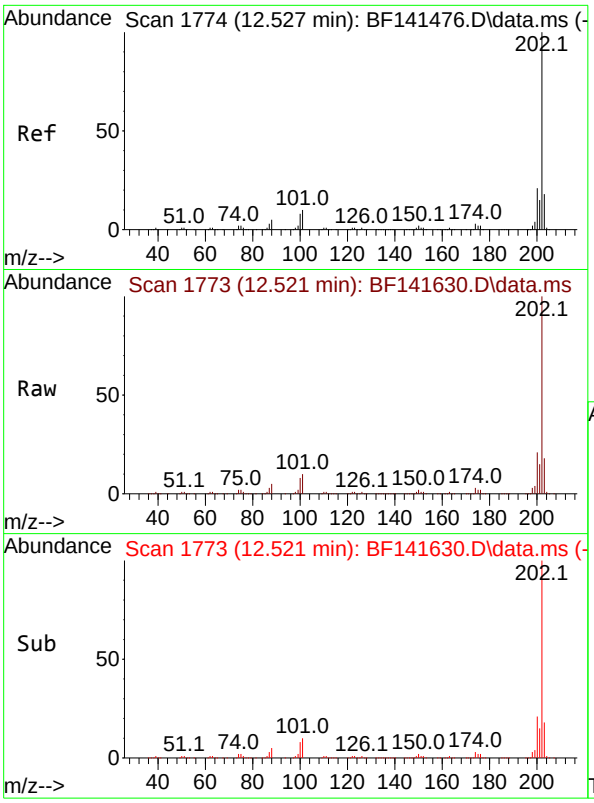


#74
Di-n-butylphthalate
Concen: 45.029 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 954420

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	5.2	4.2	6.2



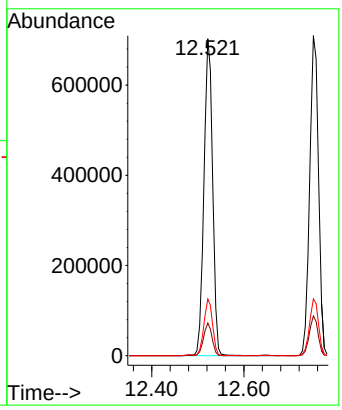


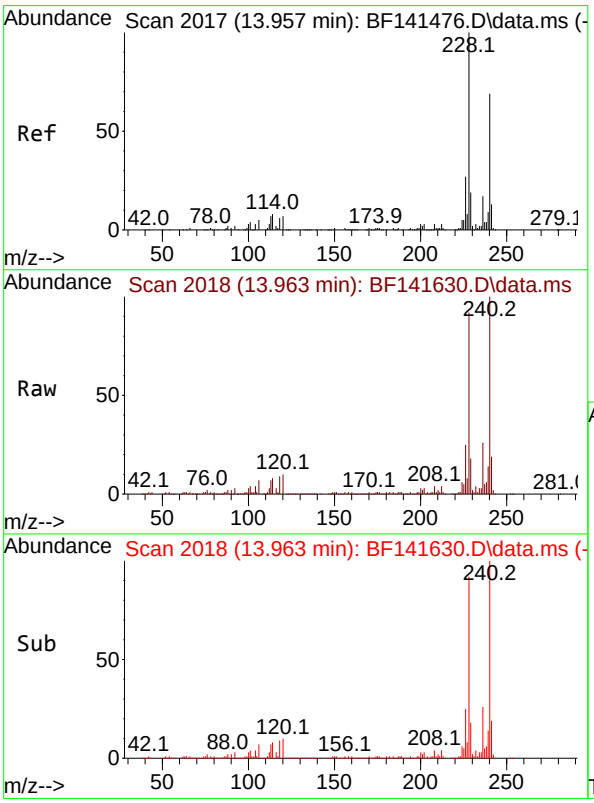
#75
Fluoranthene
Concen: 43.132 ng
RT: 12.521 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:202 Resp: 928025

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.2
203	17.9	0.0	37.6

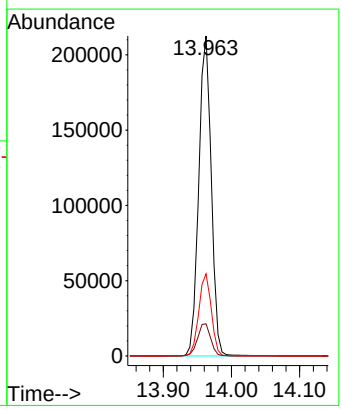


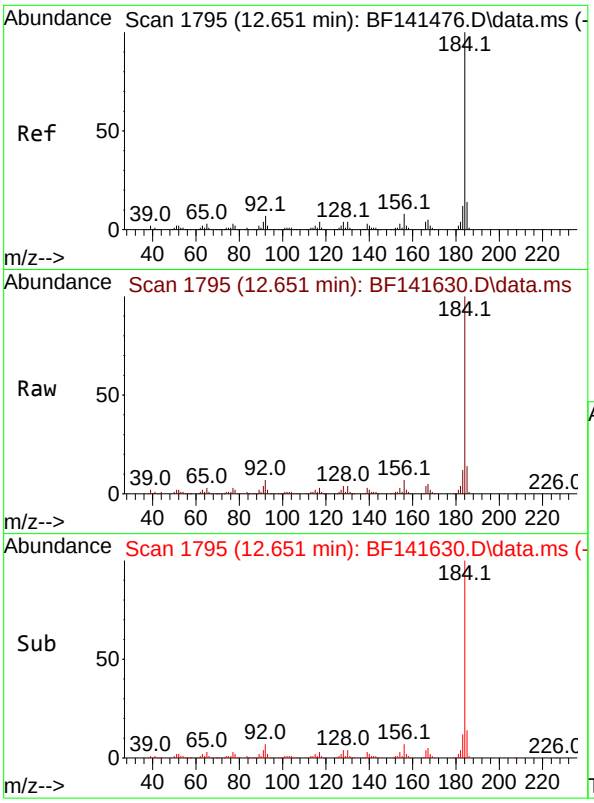


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:240 Resp: 270184

Ion	Ratio	Lower	Upper
240	100		
120	10.0	8.0	12.0
236	25.6	19.8	29.8



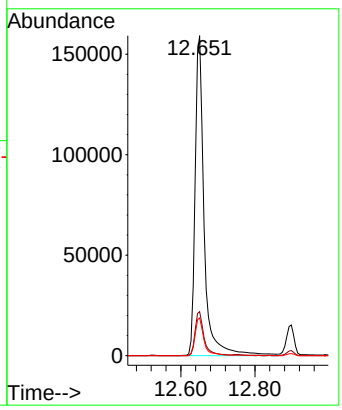


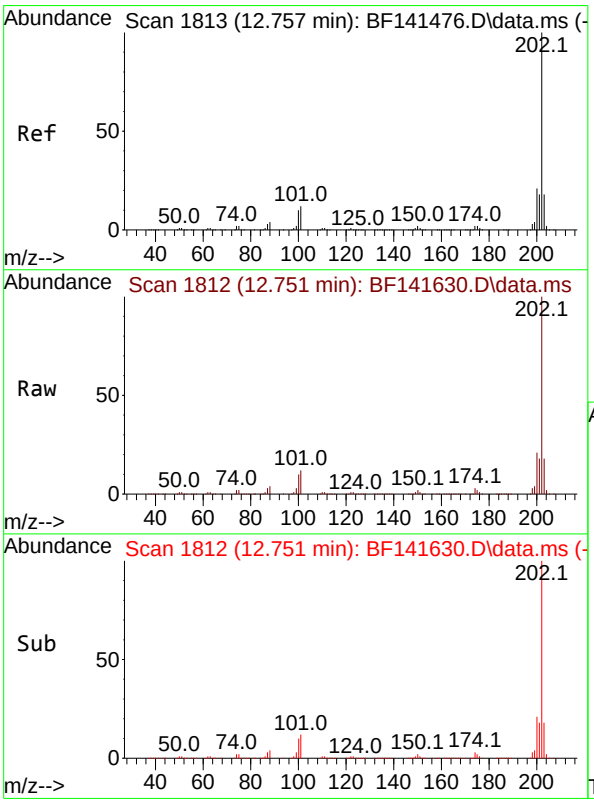
#77
Benzidine
Concen: 45.518 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:184 Resp: 271228

Ion	Ratio	Lower	Upper
184	100		
185	13.8	11.3	16.9
183	11.8	9.3	13.9

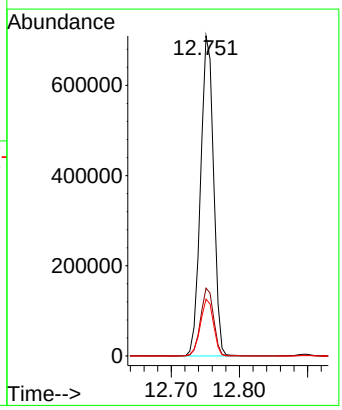


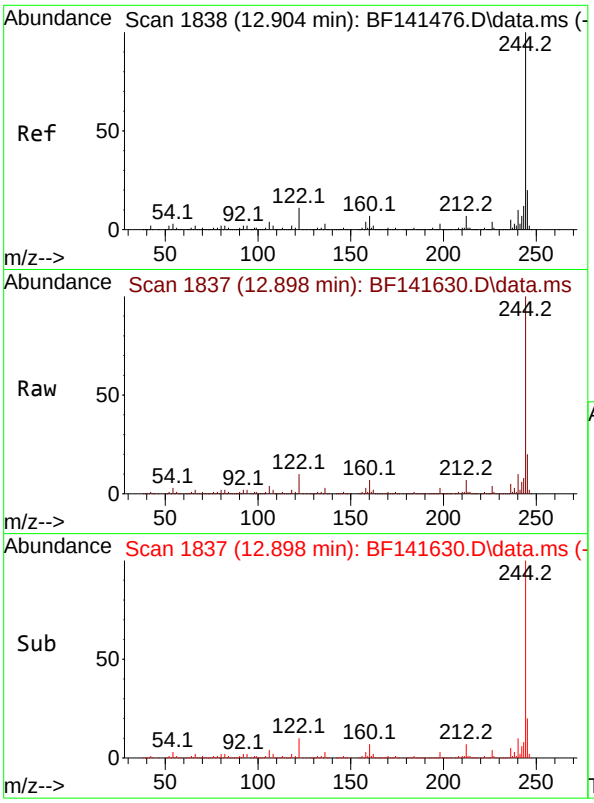


#78
Pyrene
Concen: 40.920 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:202 Resp: 941150

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.8	14.3	21.5



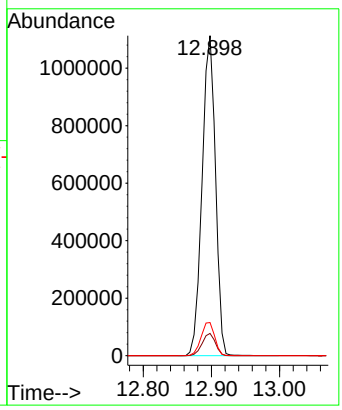


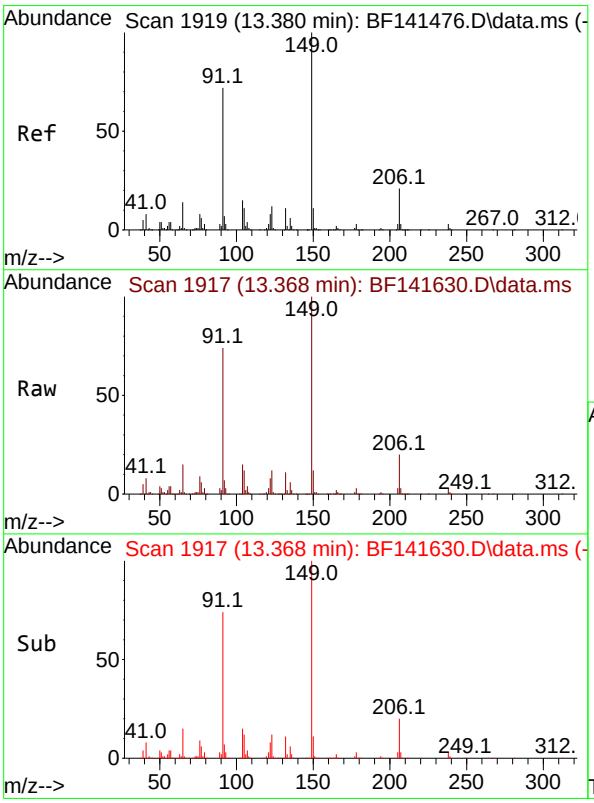
#79
Terphenyl-d14
Concen: 95.188 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:244 Resp: 1523434

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.4	8.4	12.6

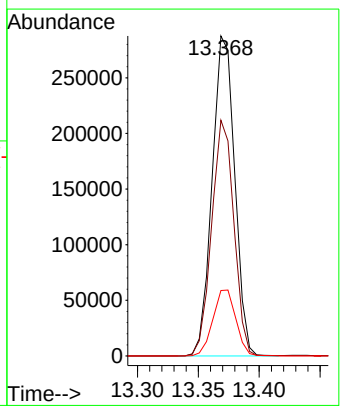


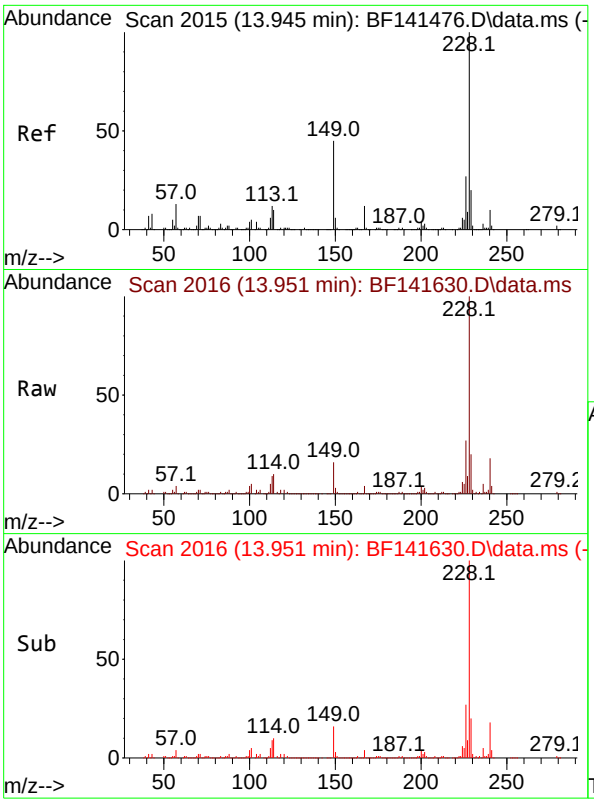


#80
Butylbenzylphthalate
Concen: 46.639 ng
RT: 13.368 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 371547

Ion	Ratio	Lower	Upper
149	100		
91	73.7	57.8	86.8
206	20.5	16.7	25.1



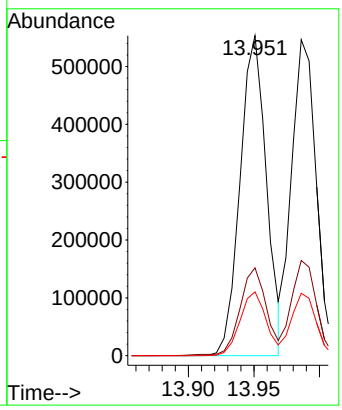


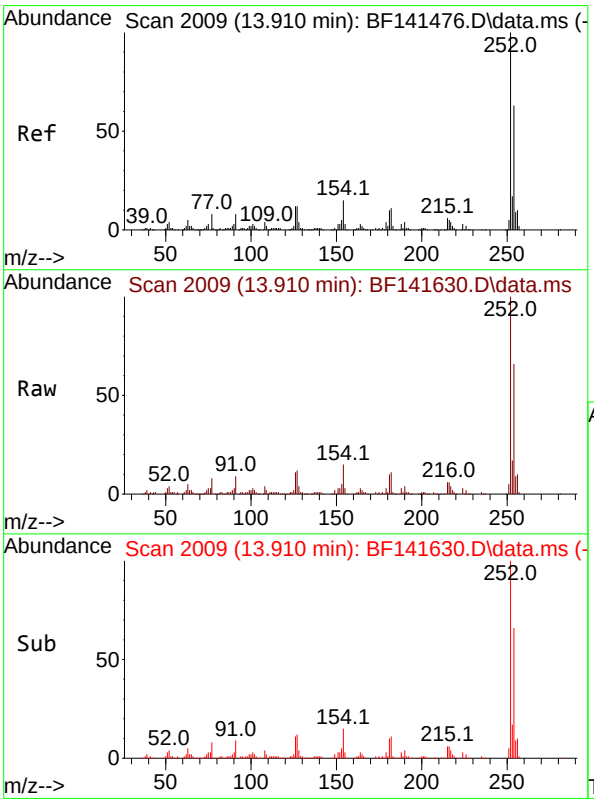
#81
Benzo(a)anthracene
Concen: 43.031 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:228 Resp: 772840

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	20.0	15.8	23.6

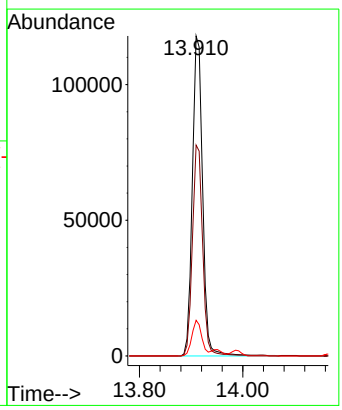


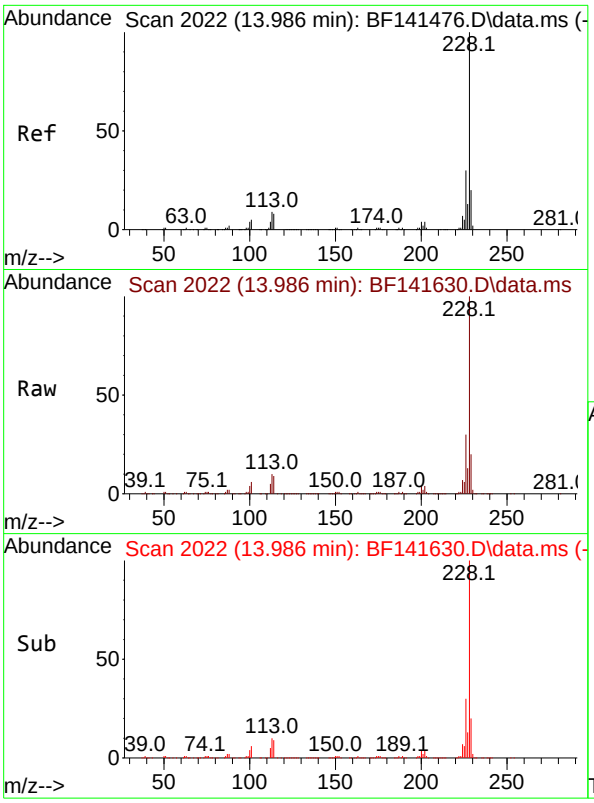


#82
3,3'-Dichlorobenzidine
Concen: 31.600 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:252 Resp: 162575

Ion	Ratio	Lower	Upper
252	100		
254	65.9	50.6	76.0
126	11.2	9.3	13.9



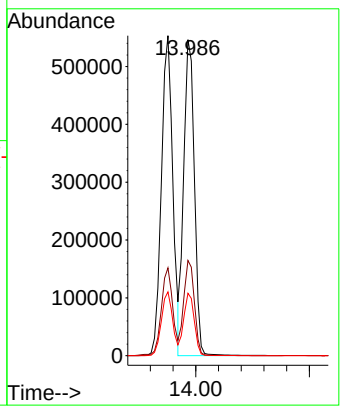


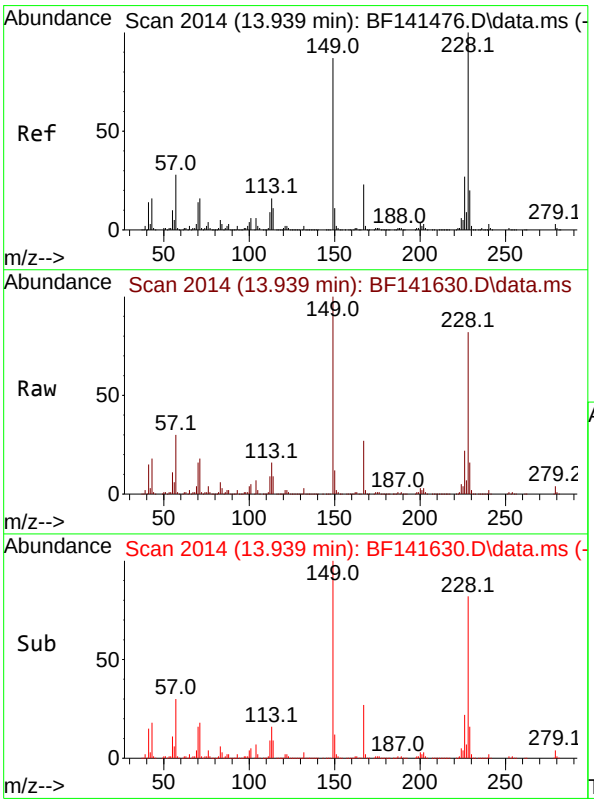
#83
Chrysene
Concen: 42.987 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:228 Resp: 712862

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.0	36.0
229	19.7	15.7	23.5

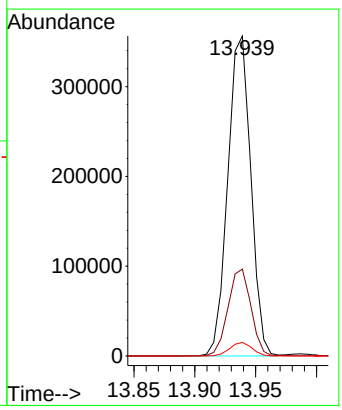


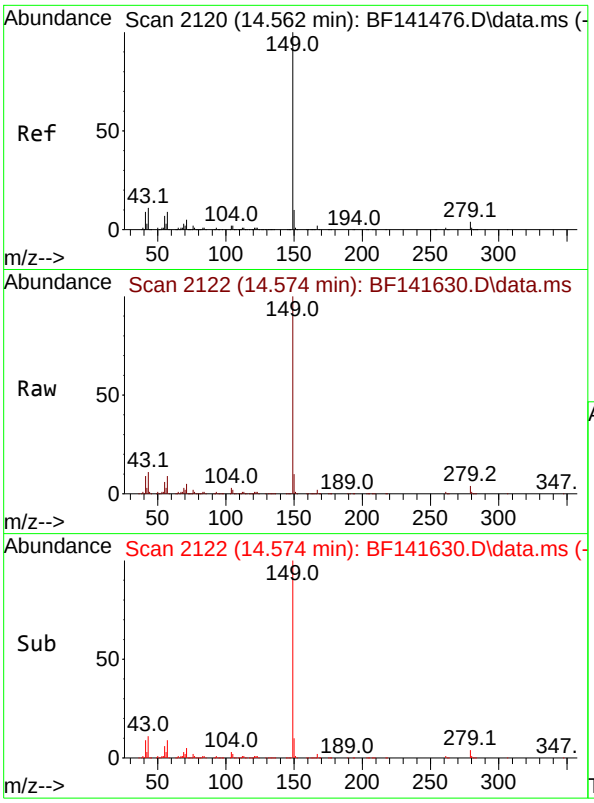


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.257 ng
RT: 13.939 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:149 Resp: 469530

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	4.3	3.1	4.7



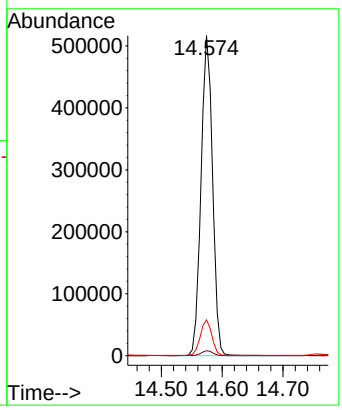


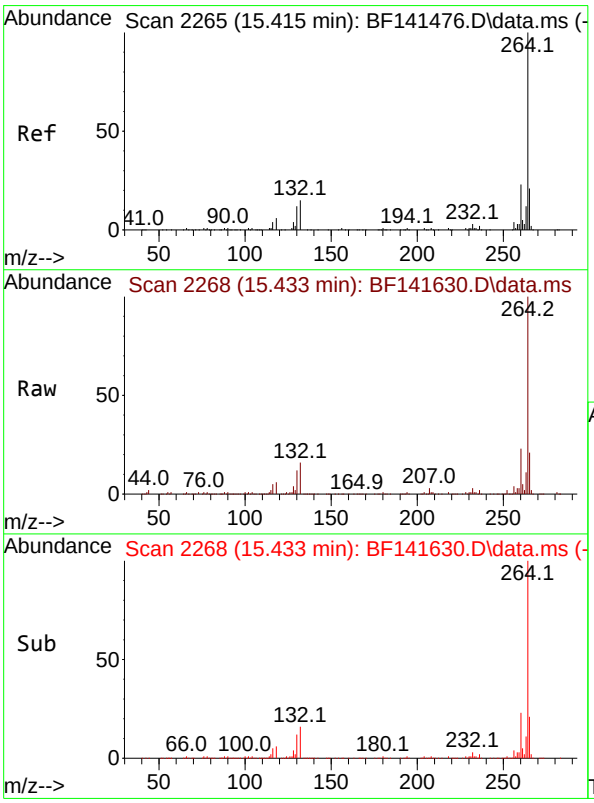
#85
Di-n-octyl phthalate
Concen: 52.993 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:149 Resp: 679262

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.1	9.5	14.3

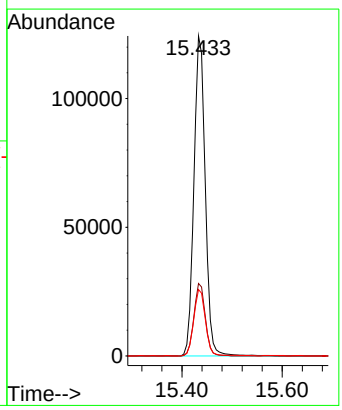


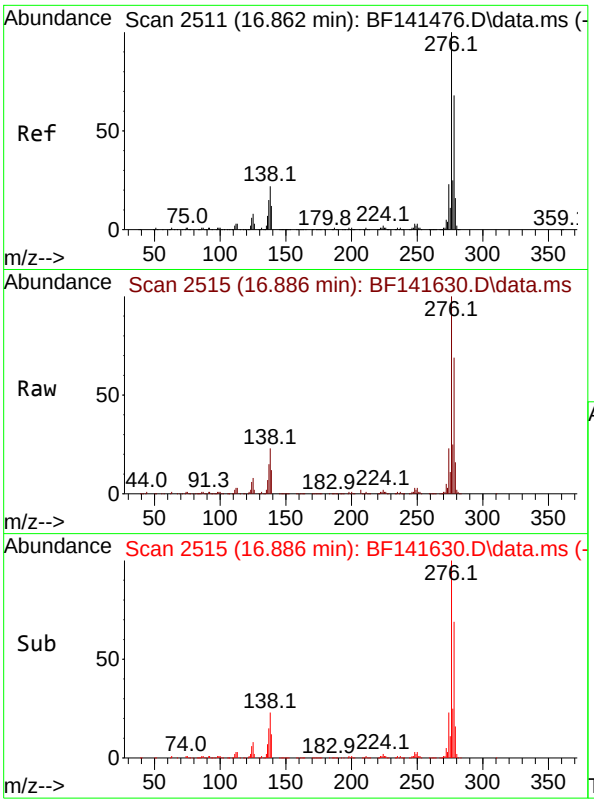


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. 0.018 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:264 Resp: 194810

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.6	28.0
265	20.7	17.0	25.4



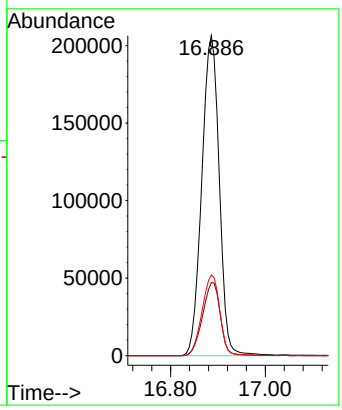


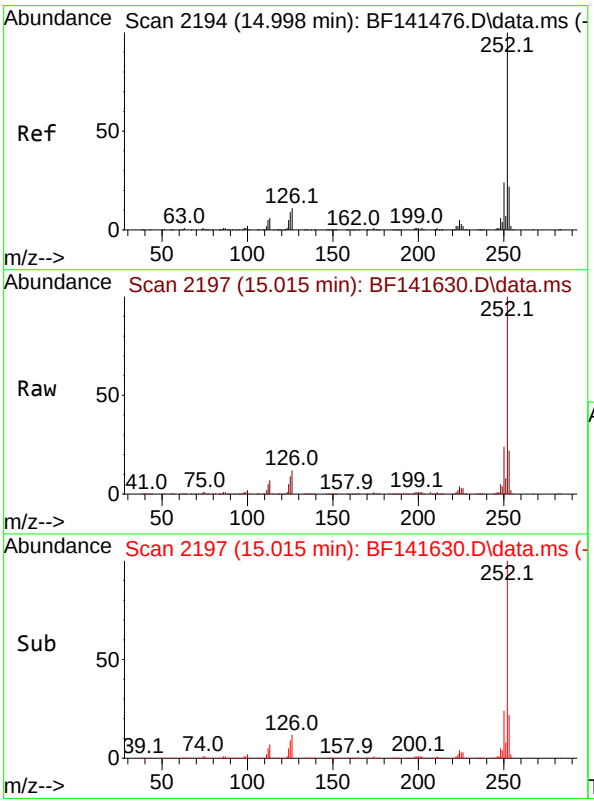
#87
Indeno(1,2,3-cd)pyrene
Concen: 43.937 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:276 Resp: 528877

Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.0	27.0
277	25.6	20.4	30.6

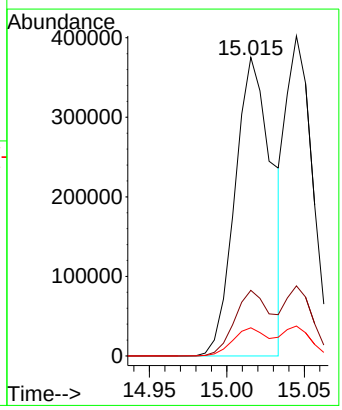


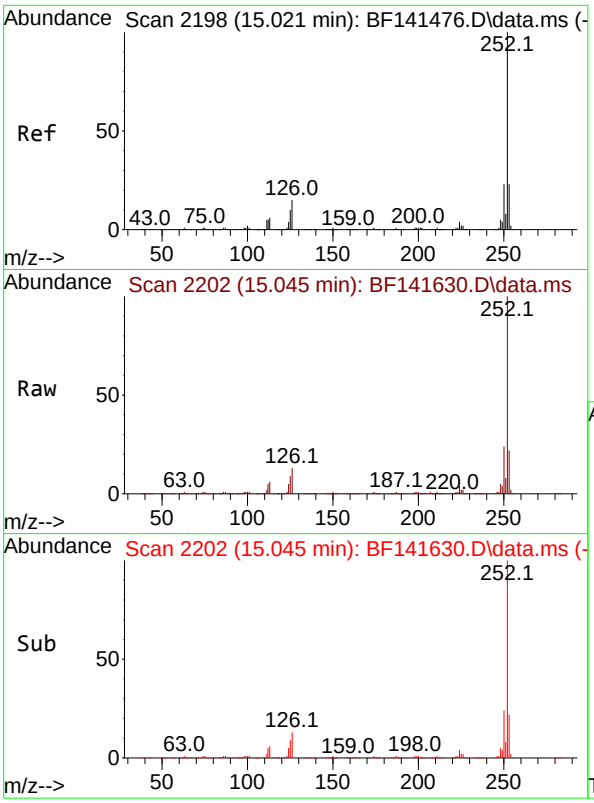


#88
Benzo(b)fluoranthene
Concen: 47.599 ng
RT: 15.015 min Scan# 2197
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:252 Resp: 622615

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.4	7.0	10.6



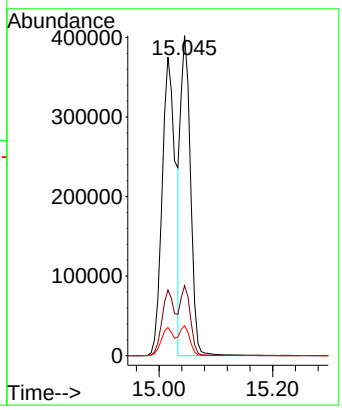


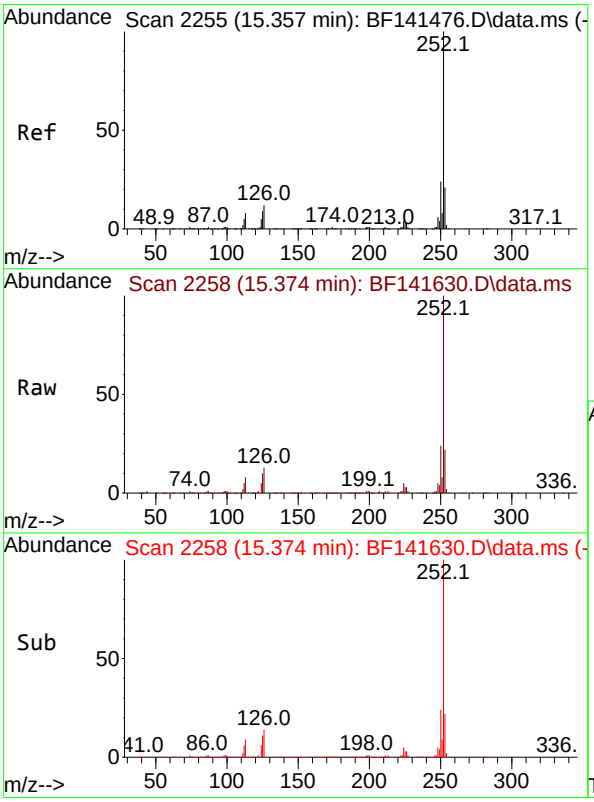
#89
Benzo(k)fluoranthene
Concen: 43.196 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:252 Resp: 482488

Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.0	27.0
125	9.3	7.4	11.0

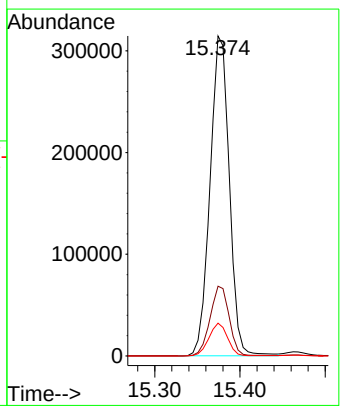


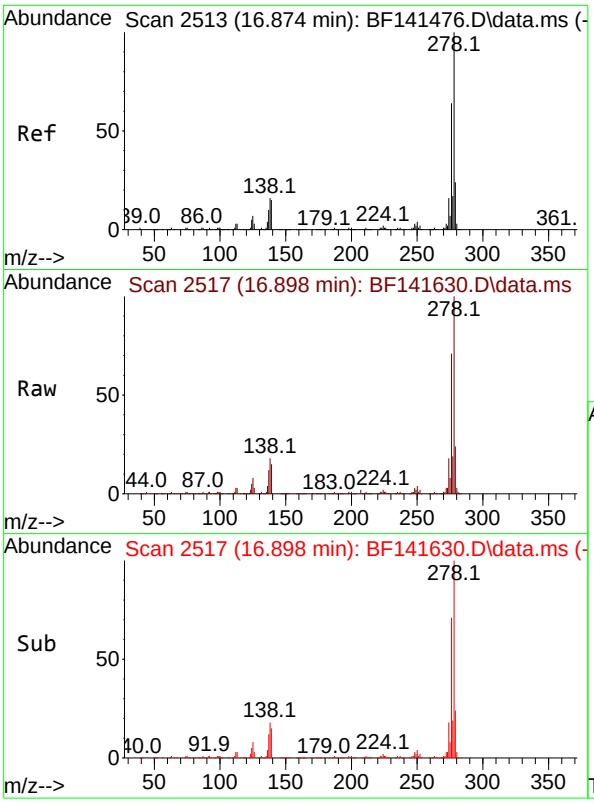


#90
Benzo(a)pyrene
Concen: 46.622 ng
RT: 15.374 min Scan# 2258
Delta R.T. 0.012 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:252 Resp: 493463

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.1	25.7
125	10.2	7.4	11.2



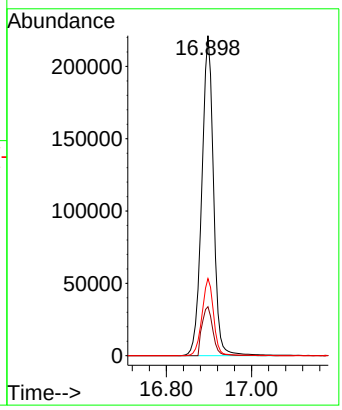


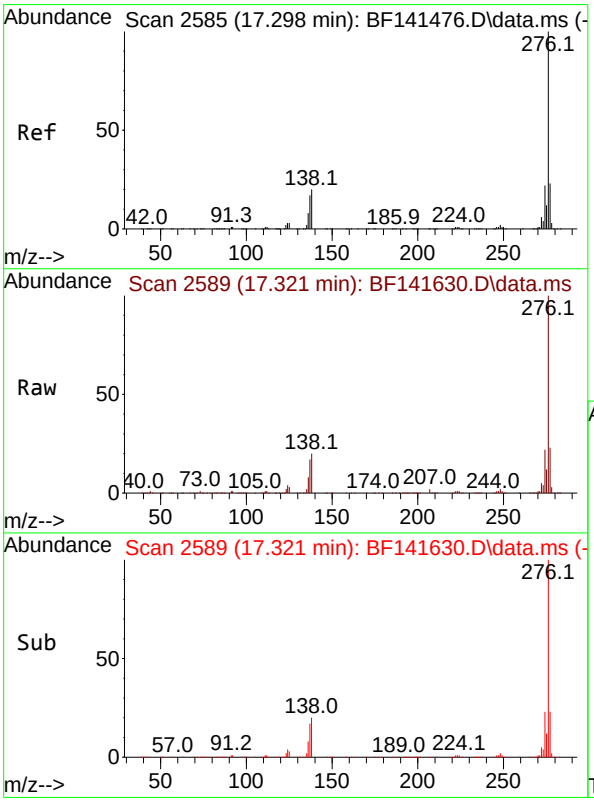
#91
Dibenzo(a,h)anthracene
Concen: 43.432 ng
RT: 16.898 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Instrument :
BNA_F
ClientSampleId :
PB166711BS

Tgt Ion:278 Resp: 423612

Ion	Ratio	Lower	Upper
278	100		
139	15.3	11.8	17.6
279	24.1	19.1	28.7

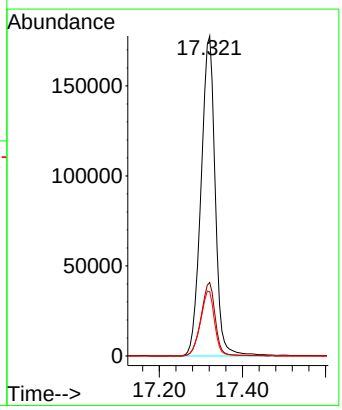




#92
Benzo(g,h,i)perylene
Concen: 41.250 ng
RT: 17.321 min Scan# 2589
Delta R.T. 0.006 min
Lab File: BF141630.D
Acq: 14 Feb 2025 10:55

Tgt Ion:276 Resp: 421022

Ion	Ratio	Lower	Upper
276	100		
277	23.0	18.6	28.0
138	20.1	15.9	23.9



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141635.D
Acq On : 14 Feb 2025 13:11
Operator : RC/JU
Sample : Q1356-04MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Quant Time: Feb 14 13:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	82541	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	333730	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	183625	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	312520	20.000	ng		0.00
76) Chrysene-d12	13.957	240	204031	20.000	ng		0.00
86) Perylene-d12	15.427	264	166342	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	693518	131.723	ng		0.00
7) Phenol-d6	6.434	99	794277	119.360	ng		0.00
23) Nitrobenzene-d5	7.351	82	613617	95.901	ng		-0.01
42) 2,4,6-Tribromophenol	10.616	330	263901	143.067	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1124066	94.311	ng		0.00
79) Terphenyl-d14	12.892	244	1317587	109.018	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.540	88	92129	43.477	ng		99
3) Pyridine	3.275	79	117348	23.272	ng		95
4) n-Nitrosodimethylamine	3.216	42	133177	39.887	ng		92
6) Aniline	6.451	93	129689	20.776	ng	#	63
8) 2-Chlorophenol	6.575	128	257064	45.186	ng		100
9) Benzaldehyde	6.334	77	95249	26.935	ng		98
10) Phenol	6.446	94	264701	38.218	ng		88
11) bis(2-Chloroethyl)ether	6.522	93	238793	45.902	ng		99
12) 1,3-Dichlorobenzene	6.728	146	266852	44.431	ng		97
13) 1,4-Dichlorobenzene	6.804	146	270354	44.057	ng		99
14) 1,2-Dichlorobenzene	6.957	146	259891	45.633	ng		98
15) Benzyl Alcohol	6.934	79	207124	40.589	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.063	45	384275	43.152	ng		82
17) 2-Methylphenol	7.051	107	197937	44.460	ng		97
18) Hexachloroethane	7.298	117	99240	43.699	ng		94
19) n-Nitroso-di-n-propyla...	7.204	70	180770	45.415	ng		96
20) 3+4-Methylphenols	7.204	107	255815	45.214	ng		97
22) Acetophenone	7.198	105	400267	48.215	ng		95
24) Nitrobenzene	7.375	77	277605	44.493	ng		98
25) Isophorone	7.610	82	481954	47.241	ng		98
26) 2-Nitrophenol	7.687	139	139383	44.902	ng		94
27) 2,4-Dimethylphenol	7.728	122	207156	57.126	ng		99
28) bis(2-Chloroethoxy)met...	7.822	93	297285	45.475	ng		99
29) 2,4-Dichlorophenol	7.934	162	219784	44.857	ng		99
30) 1,2,4-Trichlorobenzene	8.010	180	233356	43.736	ng		99
31) Naphthalene	8.092	128	746429	42.968	ng		100
32) Benzoic acid	7.857	122	120000	31.858	ng		99
33) 4-Chloroaniline	8.157	127	54001	8.903	ng		98
34) Hexachlorobutadiene	8.204	225	141846	44.283	ng		100
35) Caprolactam	8.510	113	36677	24.586	ng		96
36) 4-Chloro-3-methylphenol	8.640	107	235173	43.331	ng		99
37) 2-Methylnaphthalene	8.781	142	480745	42.527	ng		99
38) 1-Methylnaphthalene	8.881	142	463938	42.374	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	259283	48.806	ng		99
41) Hexachlorocyclopentadiene	8.934	237	254667	144.126	ng		99
43) 2,4,6-Trichlorophenol	9.063	196	150924	43.956	ng		98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141635.D
Acq On : 14 Feb 2025 13:11
Operator : RC/JU
Sample : Q1356-04MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Quant Time: Feb 14 13:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	163085	43.826	ng	97
46) 1,1'-Biphenyl	9.245	154	705956	49.589	ng	99
47) 2-Chloronaphthalene	9.269	162	478181	45.423	ng	99
48) 2-Nitroaniline	9.369	65	153564	43.466	ng	99
49) Acenaphthylene	9.687	152	725425	46.329	ng	99
50) Dimethylphthalate	9.545	163	562461	45.120	ng	99
51) 2,6-Dinitrotoluene	9.610	165	124403	45.651	ng	99
52) Acenaphthene	9.857	154	453985	43.127	ng	99
53) 3-Nitroaniline	9.781	138	52650	17.951	ng	100
54) 2,4-Dinitrophenol	9.898	184	141831	87.571	ng	91
55) Dibenzofuran	10.028	168	664370	42.998	ng	100
56) 4-Nitrophenol	9.963	139	167993	77.157	ng	95
57) 2,4-Dinitrotoluene	10.016	165	170097	46.887	ng	98
58) Fluorene	10.375	166	532609	44.581	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	138555	43.249	ng	97
60) Diethylphthalate	10.245	149	536744	43.763	ng	100
61) 4-Chlorophenyl-phenyle...	10.363	204	254718	44.318	ng	99
62) 4-Nitroaniline	10.398	138	120020	40.299	ng	98
63) Azobenzene	10.522	77	515646	42.291	ng	97
65) 4,6-Dinitro-2-methylph...	10.428	198	98963	45.586	ng	97
66) n-Nitrosodiphenylamine	10.486	169	459536	45.935	ng	100
67) 4-Bromophenyl-phenylether	10.851	248	158612	45.411	ng	96
68) Hexachlorobenzene	10.922	284	170769	47.480	ng	98
69) Atrazine	11.016	200	158816	52.917	ng	99
70) Pentachlorophenol	11.122	266	184164	80.079	ng	98
71) Phenanthrene	11.333	178	794719	46.197	ng	100
72) Anthracene	11.386	178	816284	47.203	ng	100
73) Carbazole	11.545	167	710438	45.658	ng	100
74) Di-n-butylphthalate	11.869	149	832214	46.320	ng	100
75) Fluoranthene	12.522	202	826241	45.302	ng	100
77) Benzidine	12.657	184	66894	14.866	ng	98
78) Pyrene	12.751	202	831505	47.874	ng	100
80) Butylbenzylphthalate	13.369	149	305455	50.774	ng	99
81) Benzo(a)anthracene	13.945	228	629764	46.434	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	108836	28.014	ng	98
83) Chrysene	13.980	228	585065	46.719	ng	99
84) Bis(2-ethylhexyl)phtha...	13.933	149	353256	52.064	ng	100
85) Di-n-octyl phthalate	14.563	149	486829	50.295	ng	99
87) Indeno(1,2,3-cd)pyrene	16.874	276	541787	52.713	ng	99
88) Benzo(b)fluoranthene	15.004	252	517956	46.374	ng	99
89) Benzo(k)fluoranthene	15.033	252	425886	44.654	ng	99
90) Benzo(a)pyrene	15.363	252	442121	48.920	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	436268	52.384	ng	99
92) Benzo(g,h,i)perylene	17.304	276	427909	49.099	ng	99

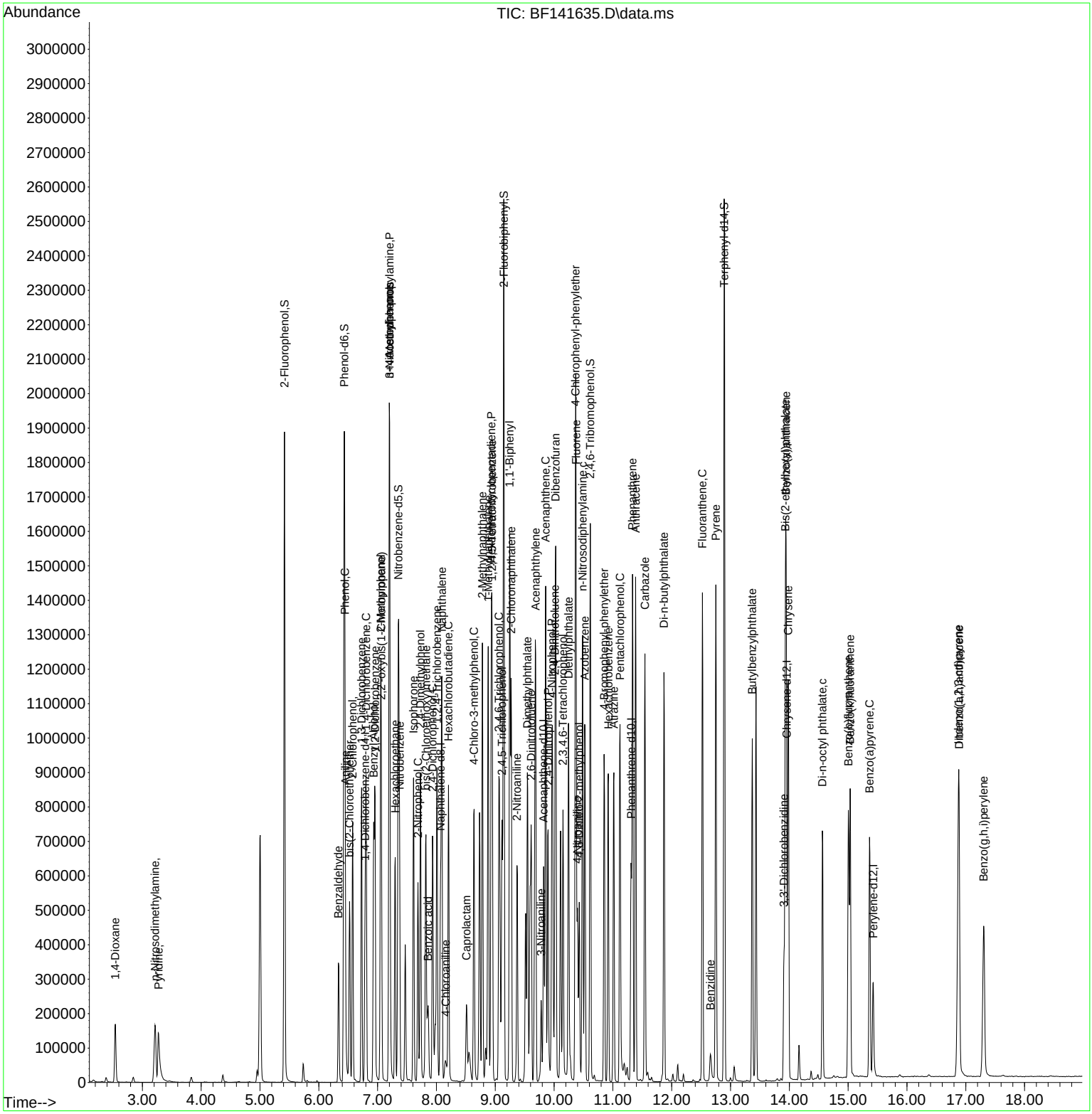
(#) = qualifier out of range (m) = manual integration (+) = signals summed

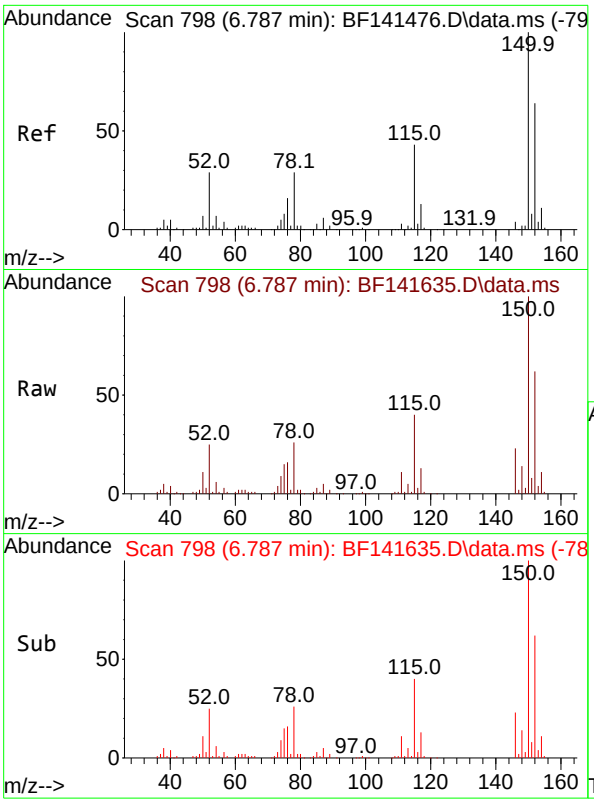
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141635.D
Acq On : 14 Feb 2025 13:11
Operator : RC/JU
Sample : Q1356-04MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Quant Time: Feb 14 13:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



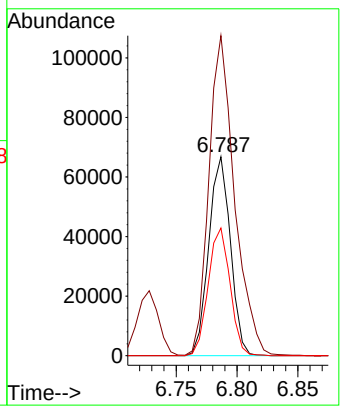


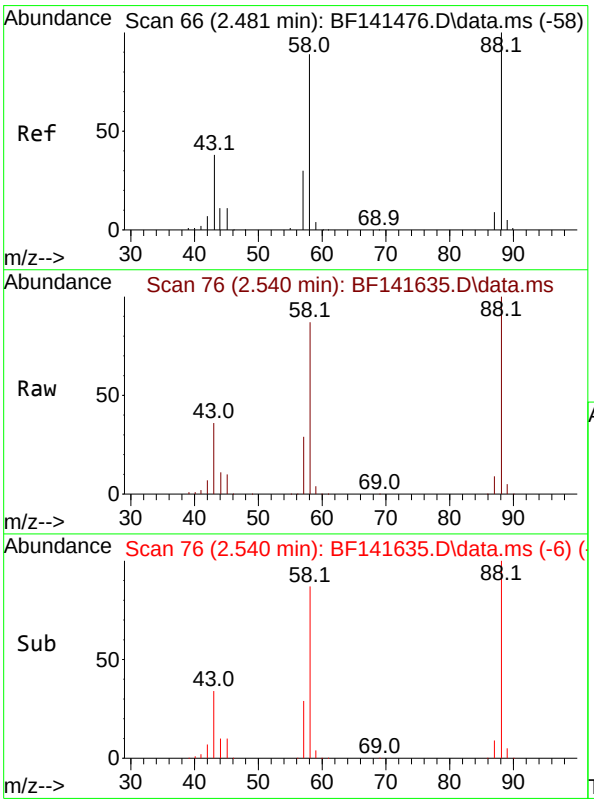
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:152 Resp: 82541

Ion	Ratio	Lower	Upper
152	100		
150	160.8	125.0	187.4
115	64.2	53.6	80.4

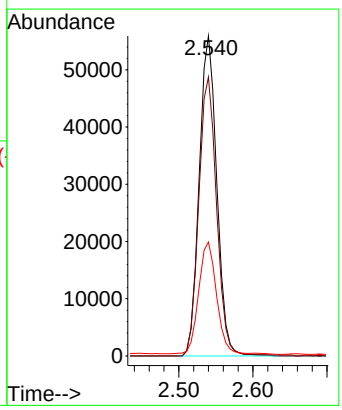


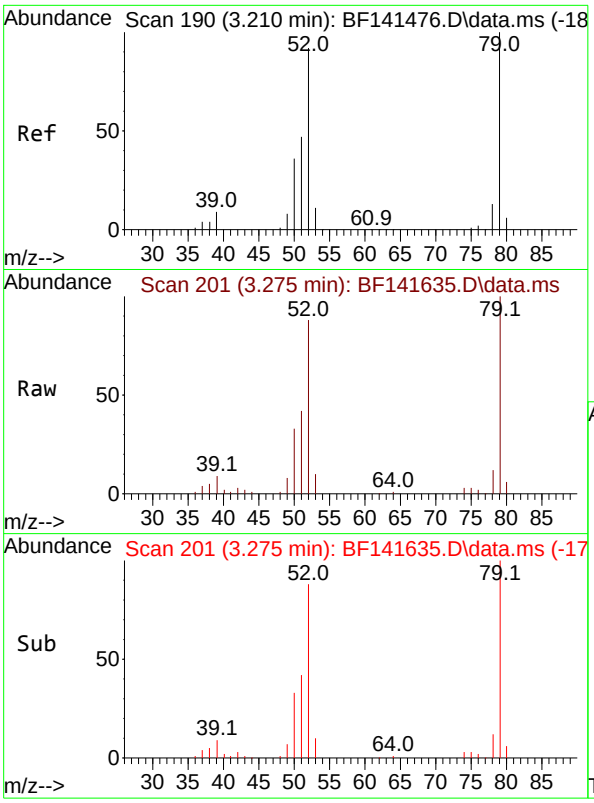


#2
1,4-Dioxane
Concen: 43.477 ng
RT: 2.540 min Scan# 76
Delta R.T. 0.059 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 88 Resp: 92129

Ion	Ratio	Lower	Upper
88	100		
58	88.5	71.1	106.7
43	36.3	30.6	46.0



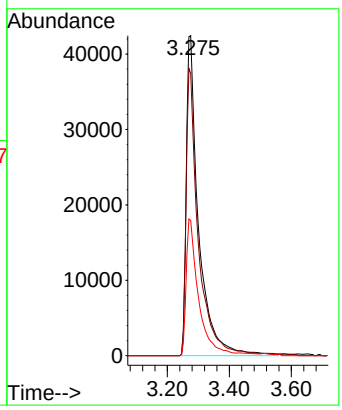


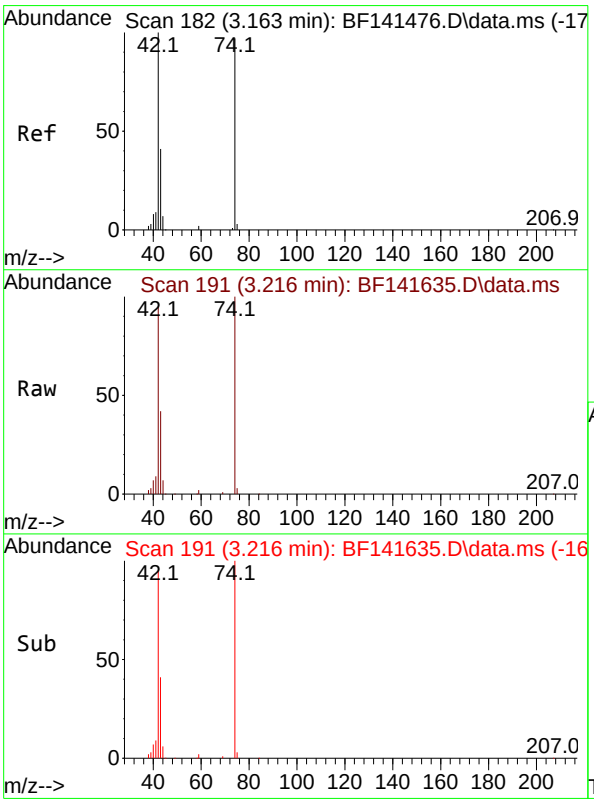
#3
Pyridine
Concen: 23.272 ng
RT: 3.275 min Scan# 2
Delta R.T. 0.059 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 79 Resp: 117348

Ion	Ratio	Lower	Upper
79	100		
52	88.2	73.7	110.5
51	42.3	37.5	56.3

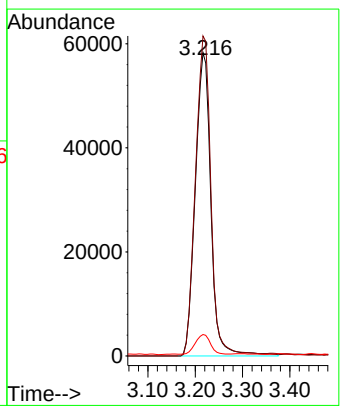


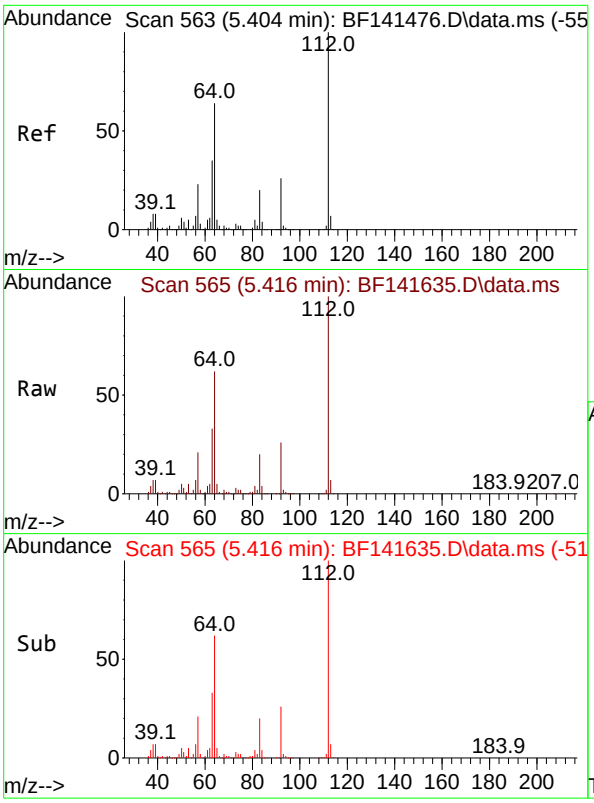


#4
n-Nitrosodimethylamine
Concen: 39.887 ng
RT: 3.216 min Scan# 191
Delta R.T. 0.030 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 42 Resp: 133177

Ion	Ratio	Lower	Upper
42	100		
74	105.5	78.0	117.0
44	7.1	5.4	8.2



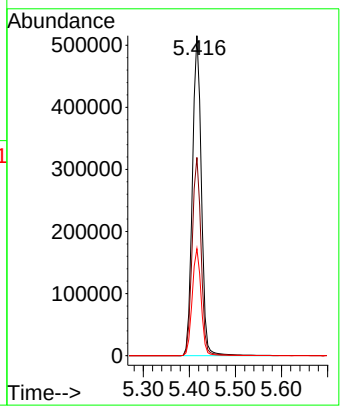


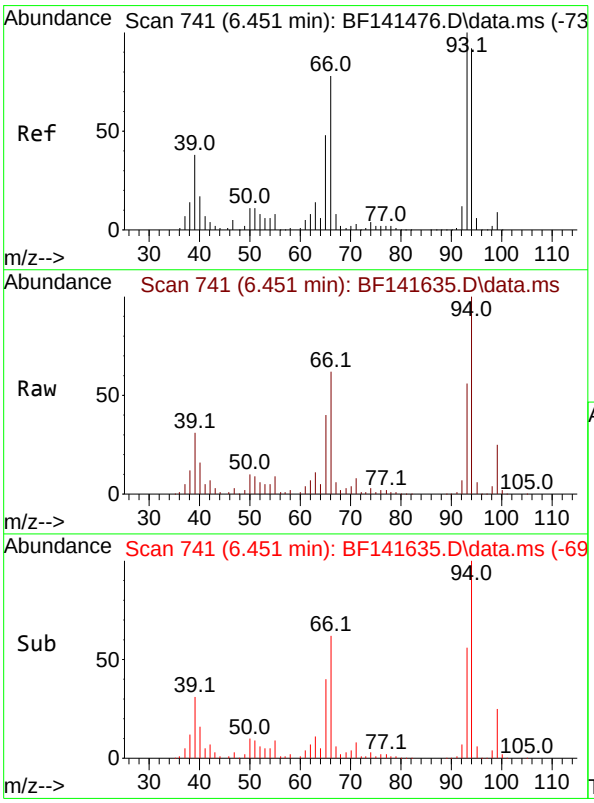
#5
2-Fluorophenol
Concen: 131.723 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:112 Resp: 693518

Ion	Ratio	Lower	Upper
112	100		
64	61.9	51.1	76.7
63	33.4	28.4	42.6

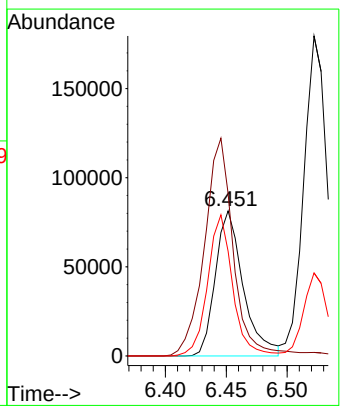


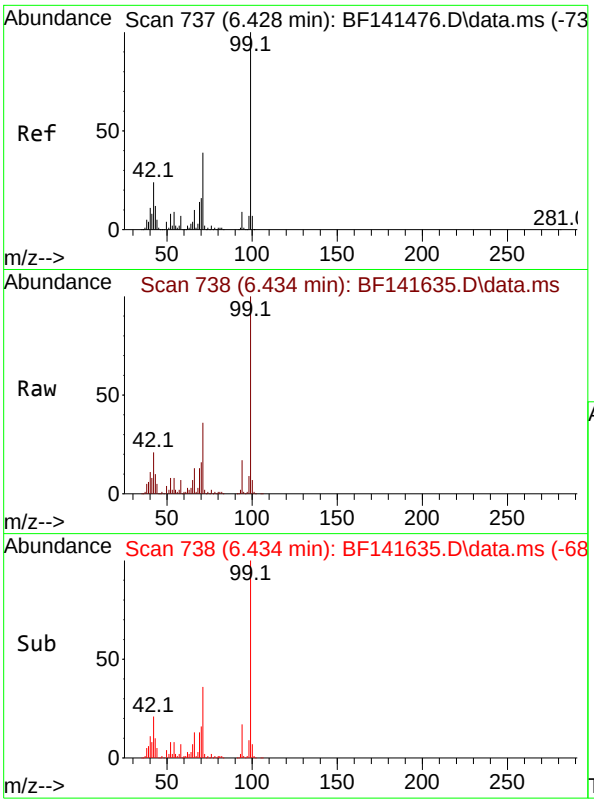


#6
Aniline
Concen: 20.776 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 93 Resp: 129689

Ion	Ratio	Lower	Upper
93	100		
66	111.8	62.6	94.0#
65	72.1	38.3	57.5#



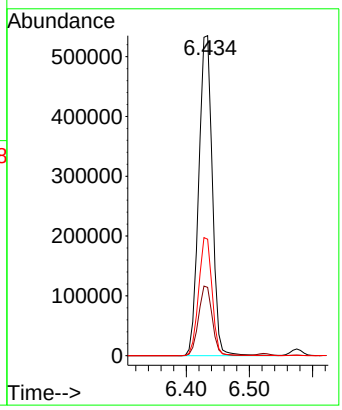


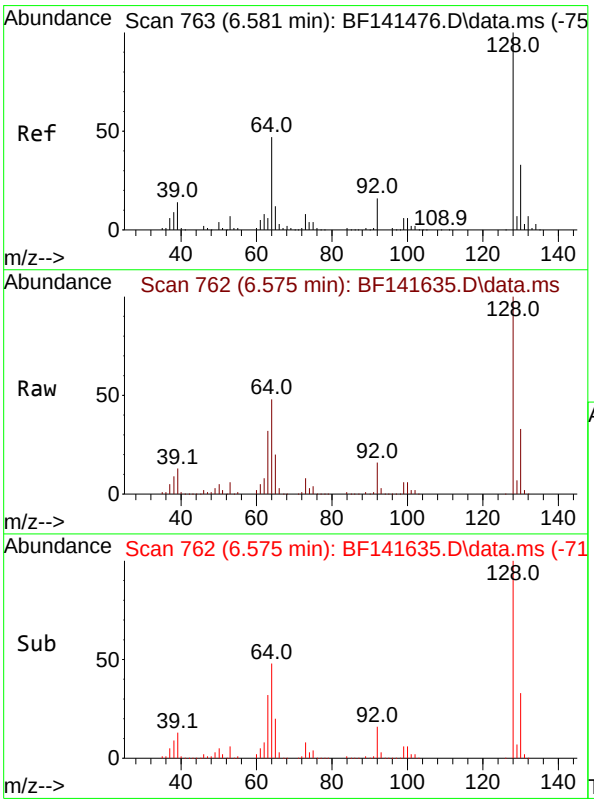
#7
Phenol-d6
Concen: 119.360 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 99 Resp: 794277

Ion	Ratio	Lower	Upper
99	100		
42	21.3	19.1	28.7
71	36.4	31.1	46.7

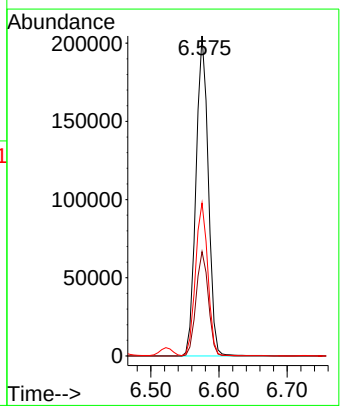


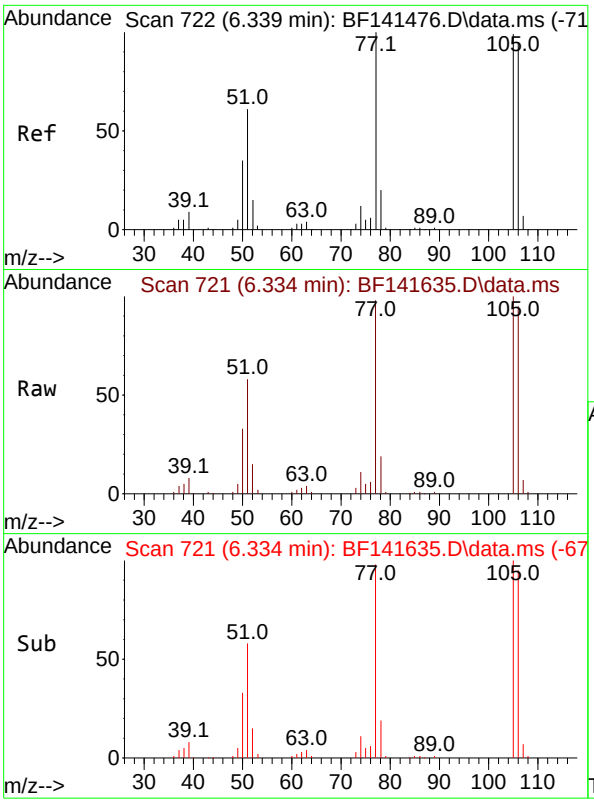


#8
2-Chlorophenol
Concen: 45.186 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:128 Resp: 257064

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.7	52.7
64	47.8	28.3	68.3



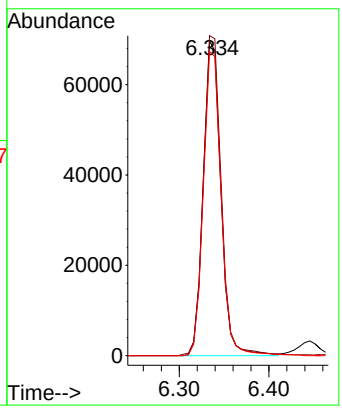


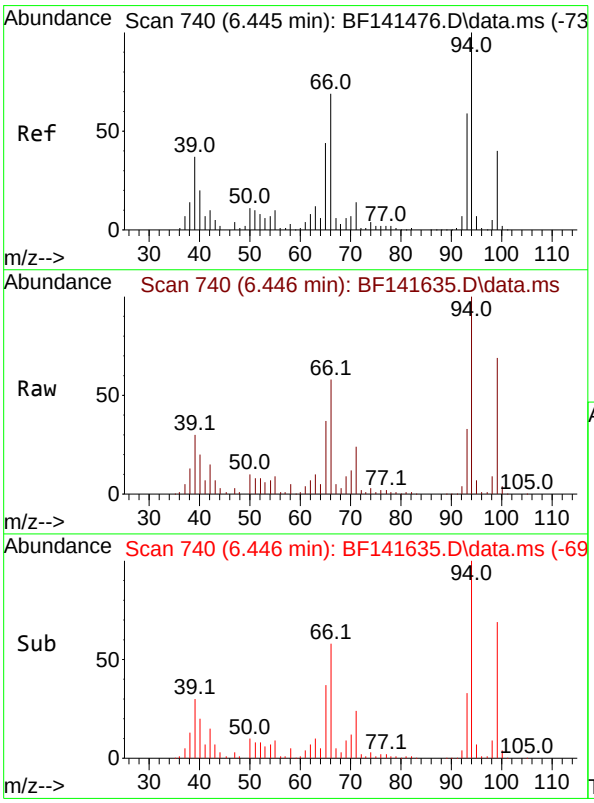
#9
Benzaldehyde
Concen: 26.935 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 77 Resp: 95249

Ion	Ratio	Lower	Upper
77	100		
105	101.8	79.4	119.4
106	96.7	75.1	115.1

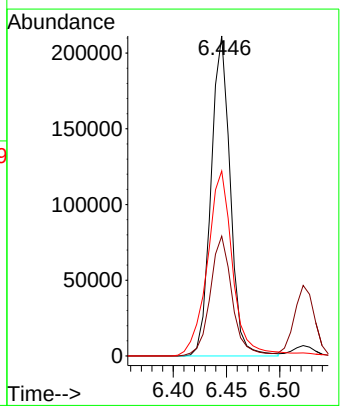


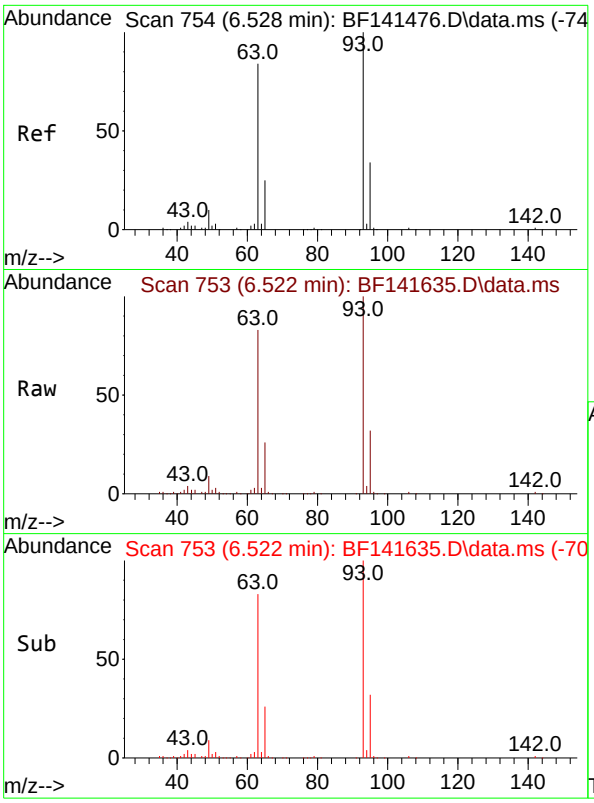


#10
Phenol
Concen: 38.218 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 94 Resp: 264701

Ion	Ratio	Lower	Upper
94	100		
65	37.5	23.7	63.7
66	57.8	49.3	89.3



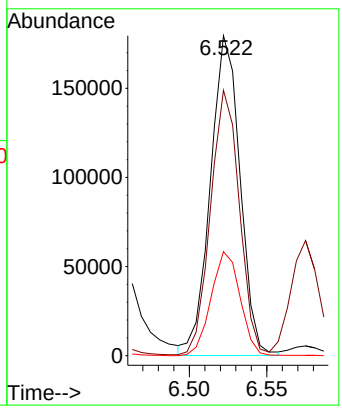


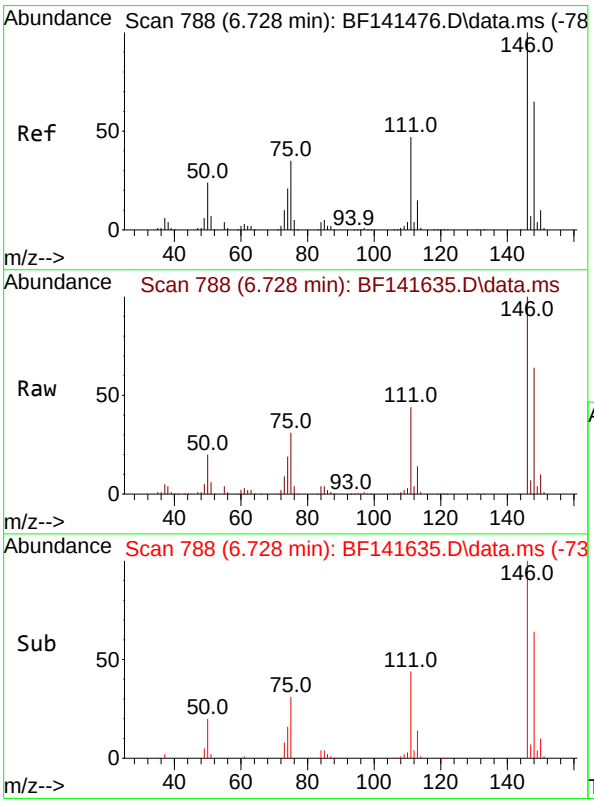
#11
bis(2-Chloroethyl)ether
Concen: 45.902 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 93 Resp: 238793

Ion	Ratio	Lower	Upper
93	100		
63	83.0	62.0	102.0
95	32.5	12.6	52.6

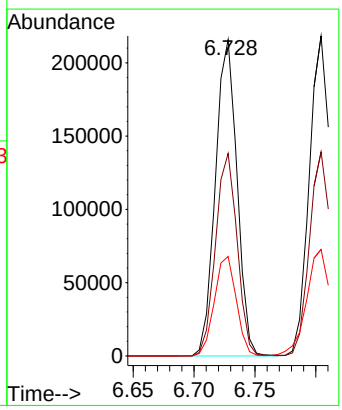


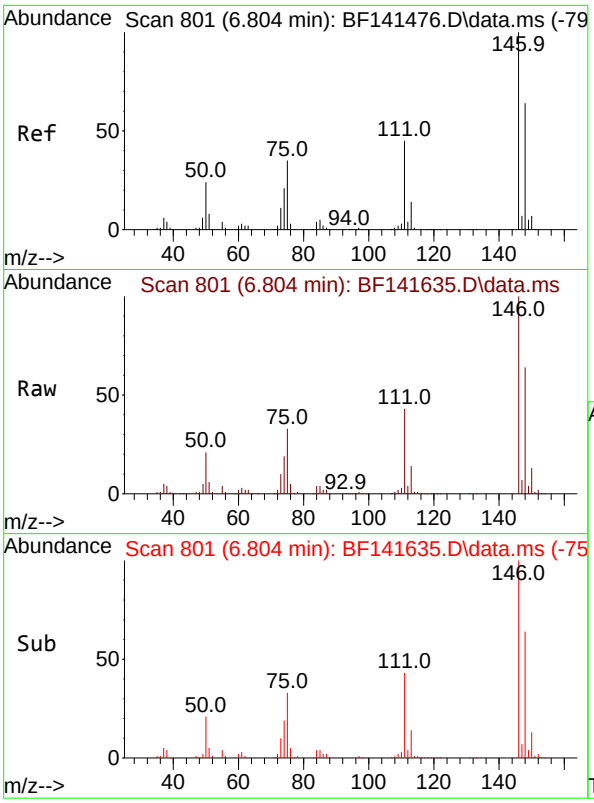


#12
1,3-Dichlorobenzene
Concen: 44.431 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:146 Resp: 266852

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.9	77.9
75	31.5	28.2	42.2



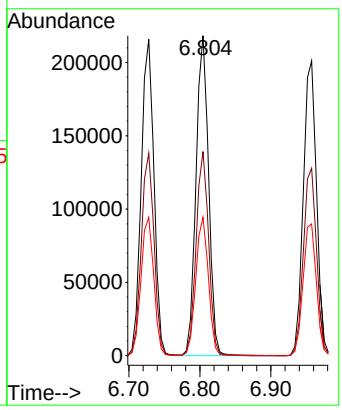


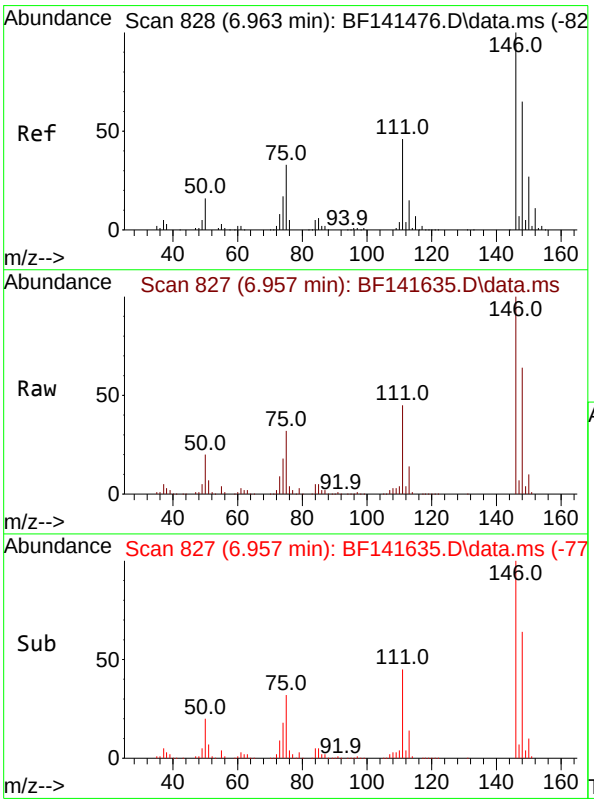
#13
1,4-Dichlorobenzene
Concen: 44.057 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:146 Resp: 270354

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.9	76.3
111	43.2	35.9	53.9

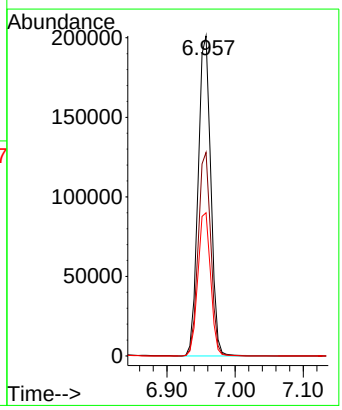


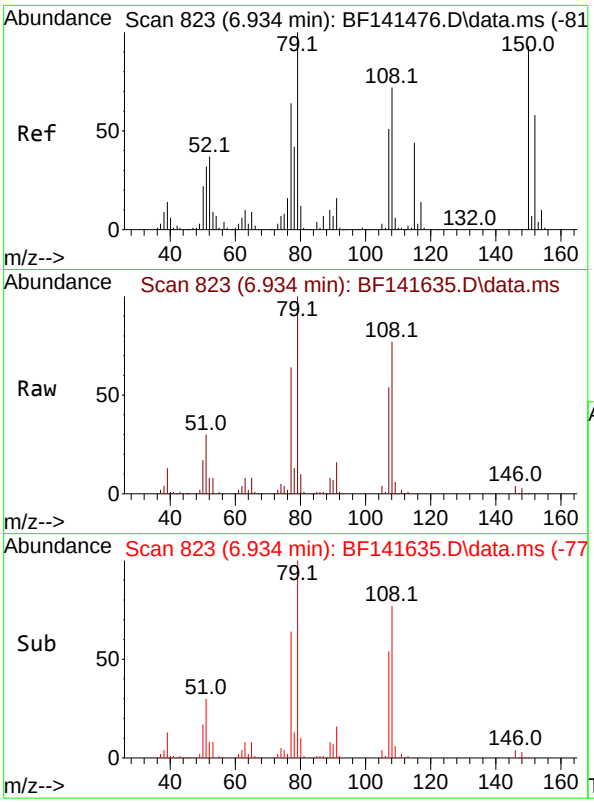


#14
1,2-Dichlorobenzene
Concen: 45.633 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:146 Resp: 259891

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.8	77.6
111	44.7	37.0	55.4



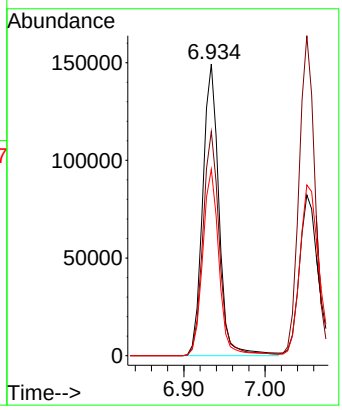


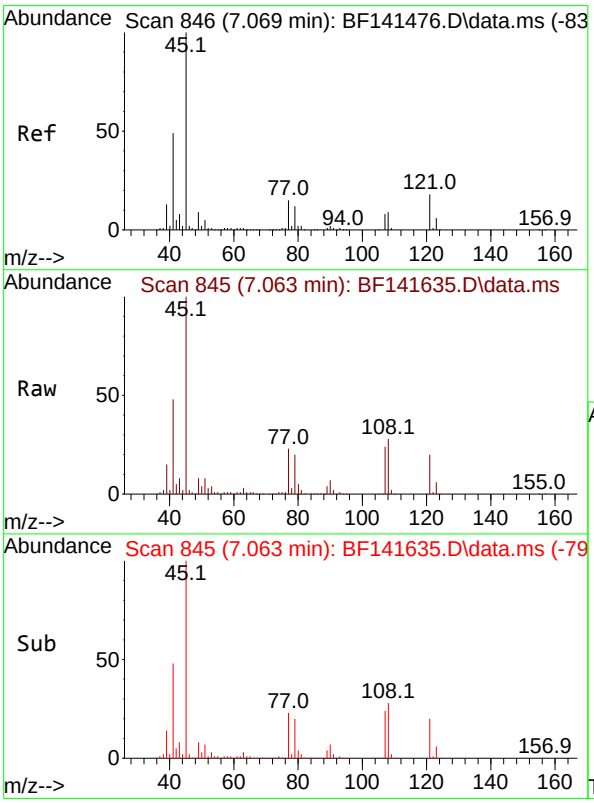
#15
Benzyl Alcohol
Concen: 40.589 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 79 Resp: 207124

Ion	Ratio	Lower	Upper
79	100		
108	76.9	57.4	86.2
77	63.9	50.9	76.3

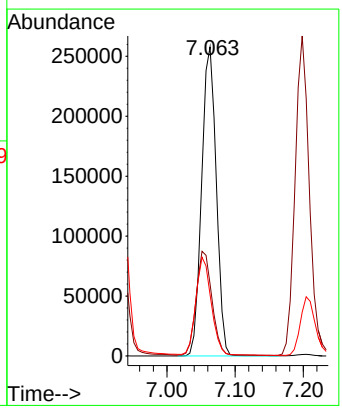


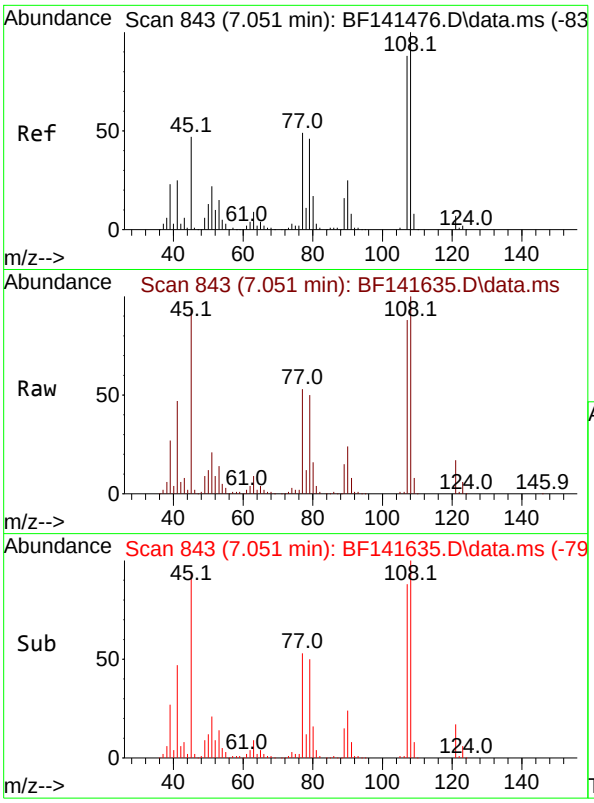


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.152 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 45 Resp: 384275

Ion	Ratio	Lower	Upper
45	100		
77	23.3	0.0	35.8
79	19.9	0.0	32.7



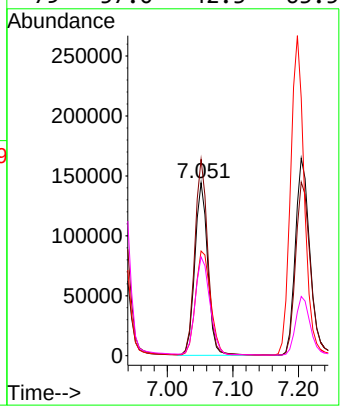


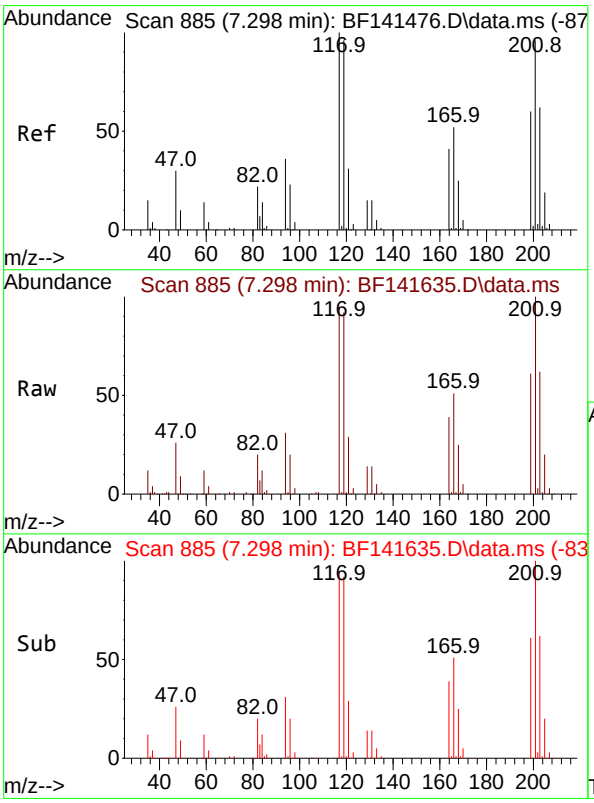
#17
2-Methylphenol
Concen: 44.460 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:107 Resp: 197937

Ion	Ratio	Lower	Upper
107	100		
108	113.5	90.6	136.0
77	60.5	44.4	66.6
79	57.0	42.3	63.5

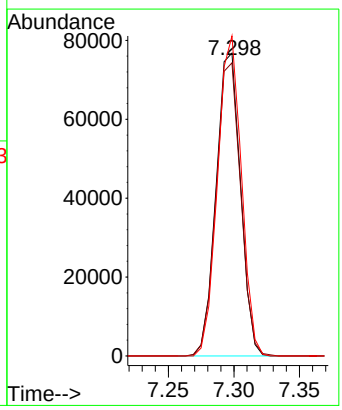


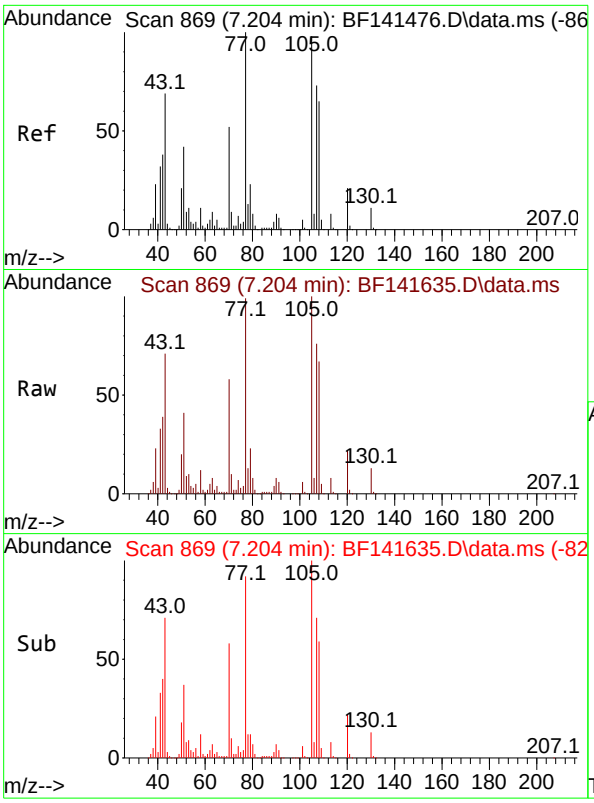


#18
Hexachloroethane
Concen: 43.699 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:117 Resp: 99240

Ion	Ratio	Lower	Upper
117	100		
119	96.8	76.5	114.7
201	105.6	76.7	115.1



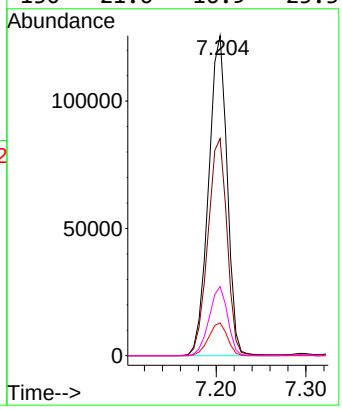


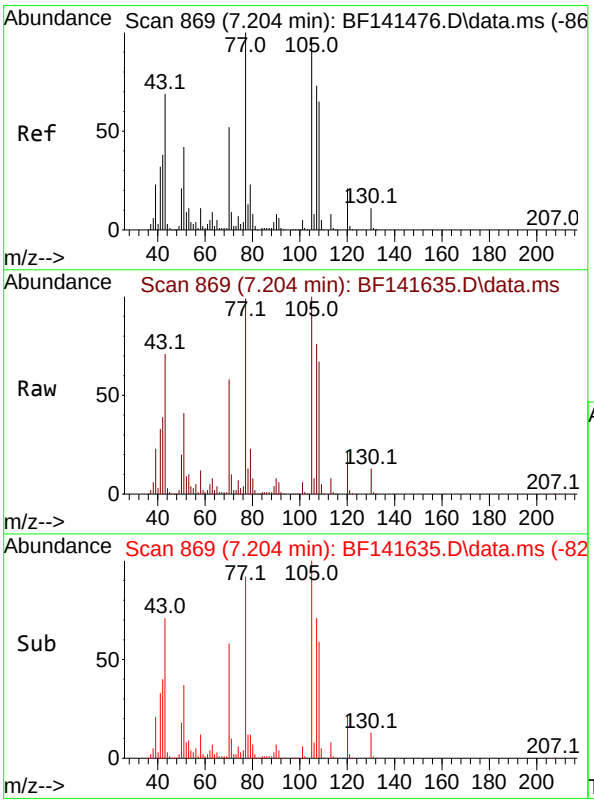
#19
n-Nitroso-di-n-propylamine
Concen: 45.415 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 70 Resp: 180770

Ion	Ratio	Lower	Upper
70	100		
42	67.8	57.4	86.2
101	10.3	8.0	12.0
130	21.6	16.9	25.3

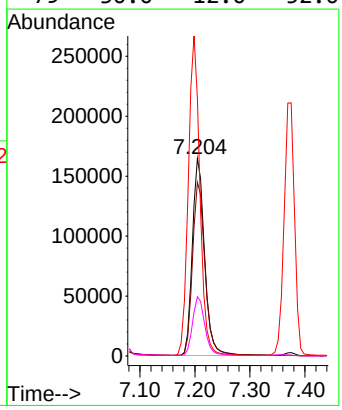


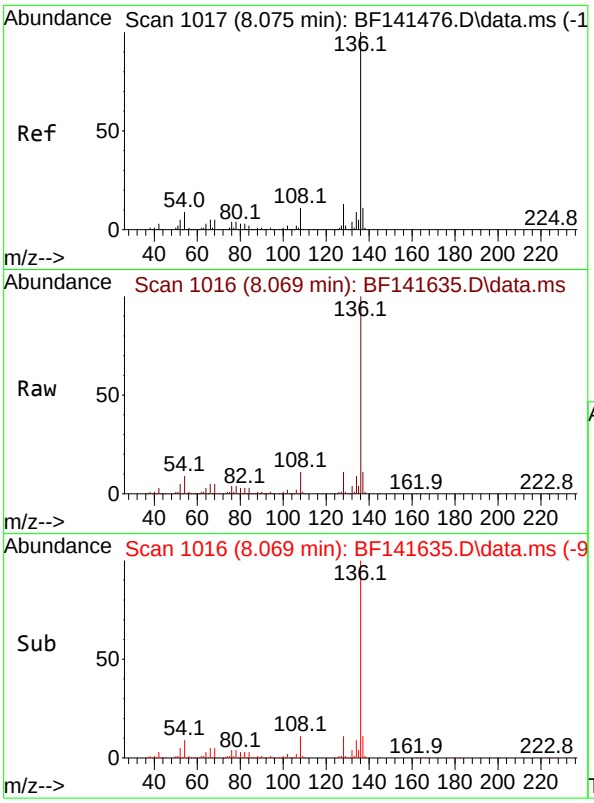


#20
3+4-Methylphenols
Concen: 45.214 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:107 Resp: 255815

Ion	Ratio	Lower	Upper
107	100		
108	88.0	68.5	108.5
77	130.4	116.5	156.5
79	30.0	12.0	52.0



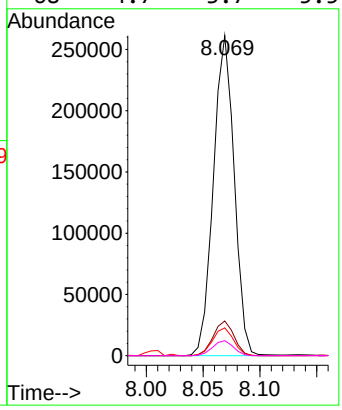


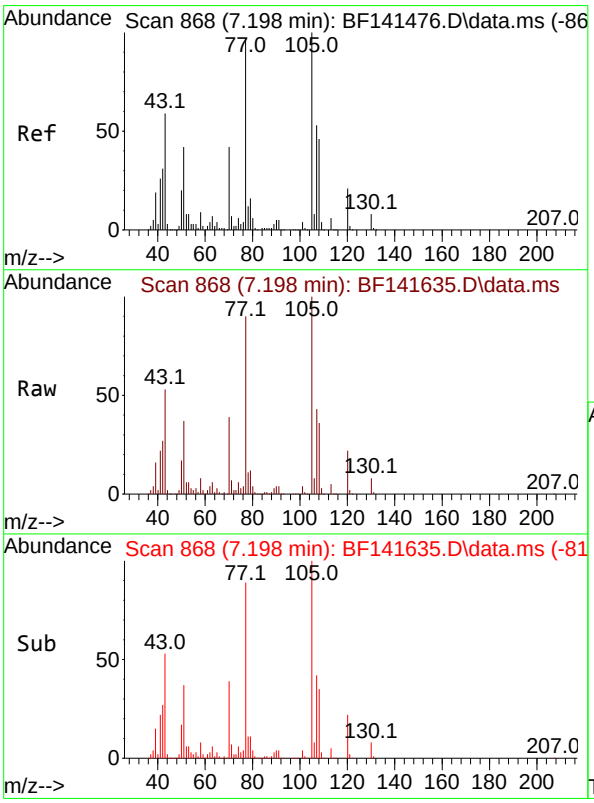
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:136 Resp: 333730

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	8.7	7.2	10.8
68	4.7	3.7	5.5

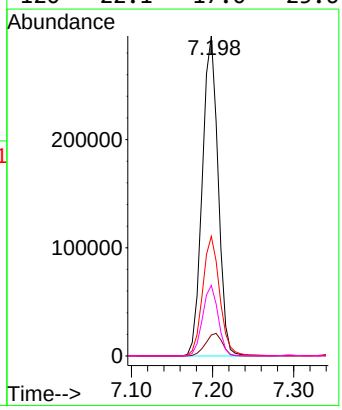


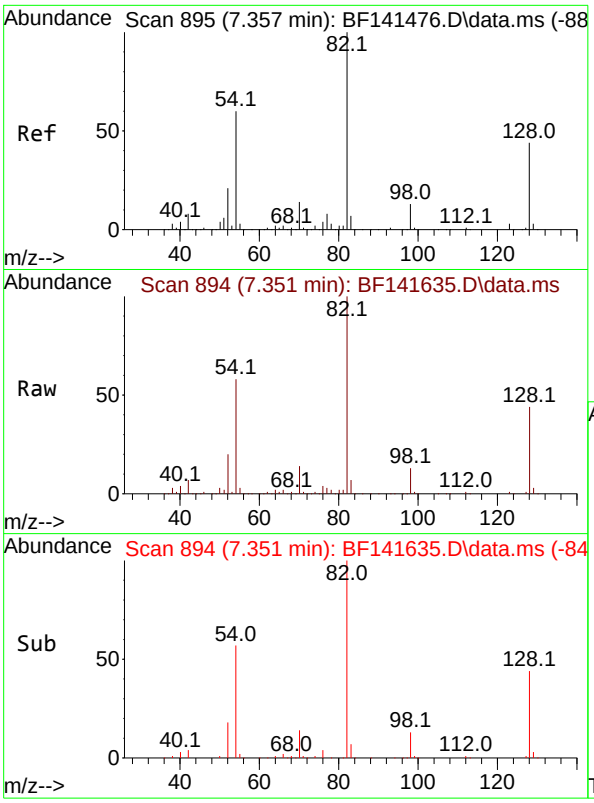


#22
Acetophenone
Concen: 48.215 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:105 Resp: 400267

Ion	Ratio	Lower	Upper
105	100		
71	6.5	5.7	8.5
51	37.4	33.7	50.5
120	22.1	17.0	25.6



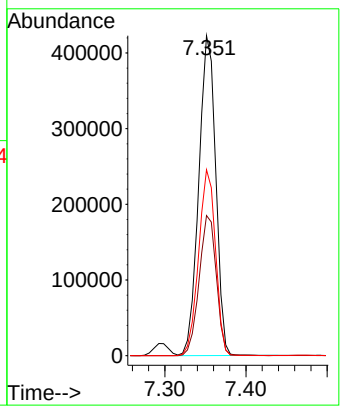


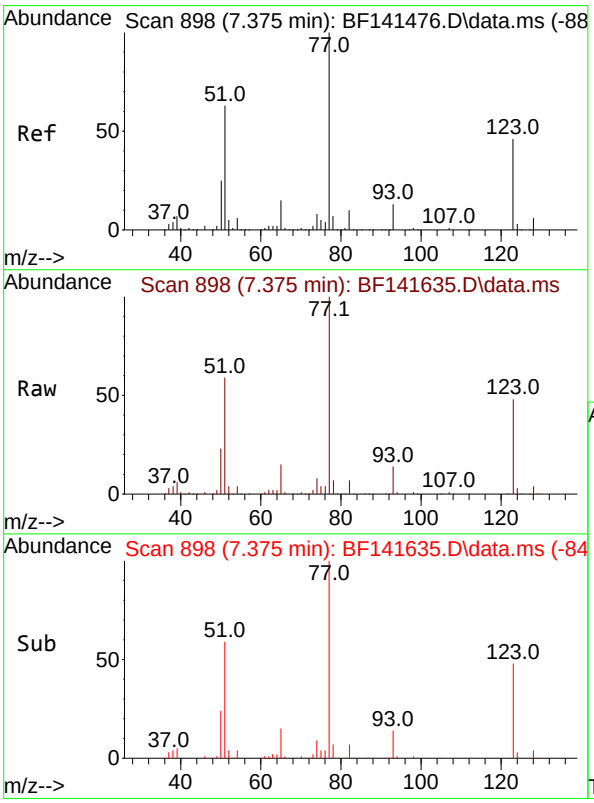
#23
Nitrobenzene-d5
Concen: 95.901 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 82 Resp: 613617

Ion	Ratio	Lower	Upper
82	100		
128	43.8	34.8	52.2
54	58.1	48.2	72.4

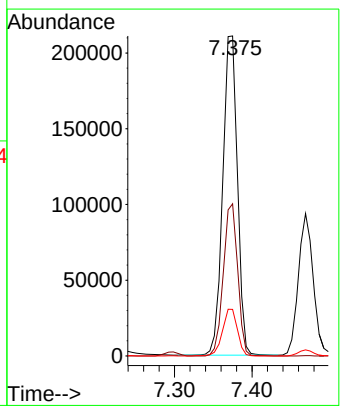


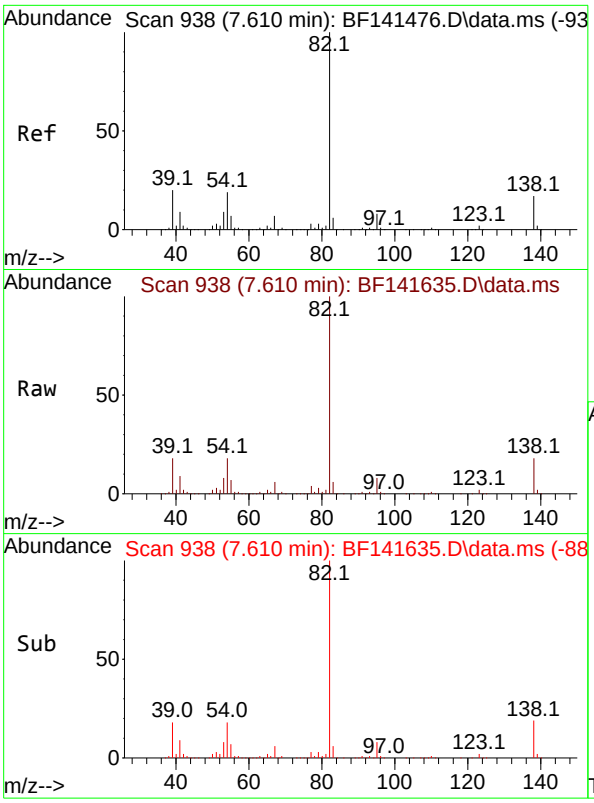


#24
Nitrobenzene
Concen: 44.493 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 77 Resp: 277605

Ion	Ratio	Lower	Upper
77	100		
123	47.6	36.9	55.3
65	14.6	11.9	17.9



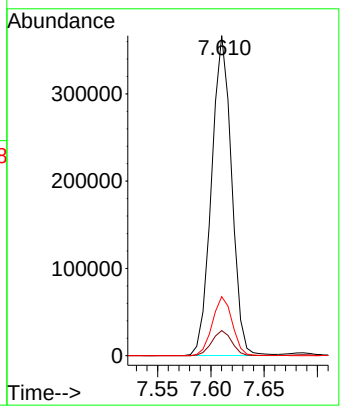


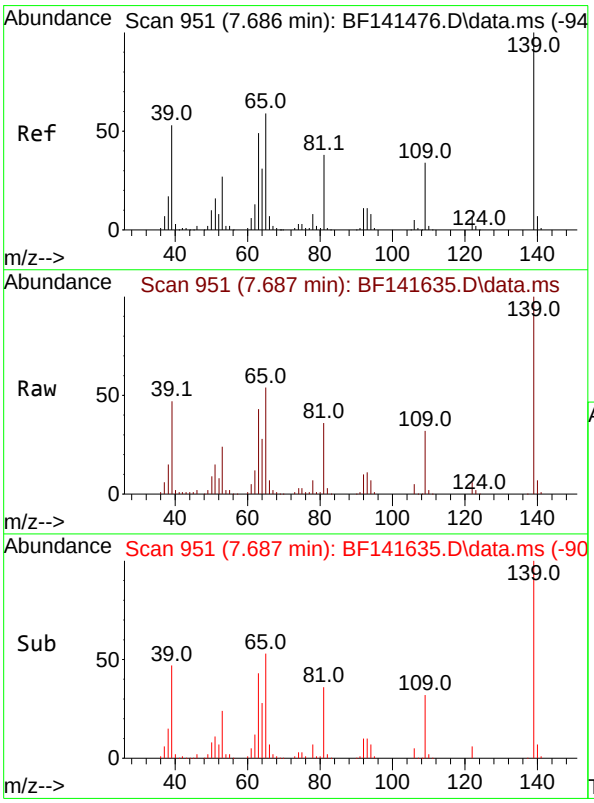
#25
Isophorone
Concen: 47.241 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 82 Resp: 481954

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.4	9.6
138	18.4	13.9	20.9

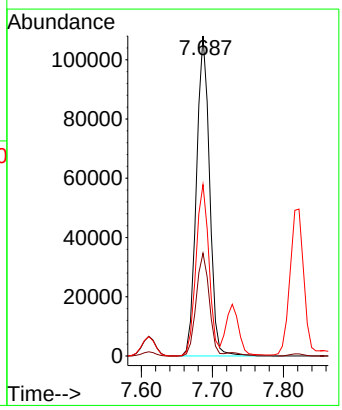


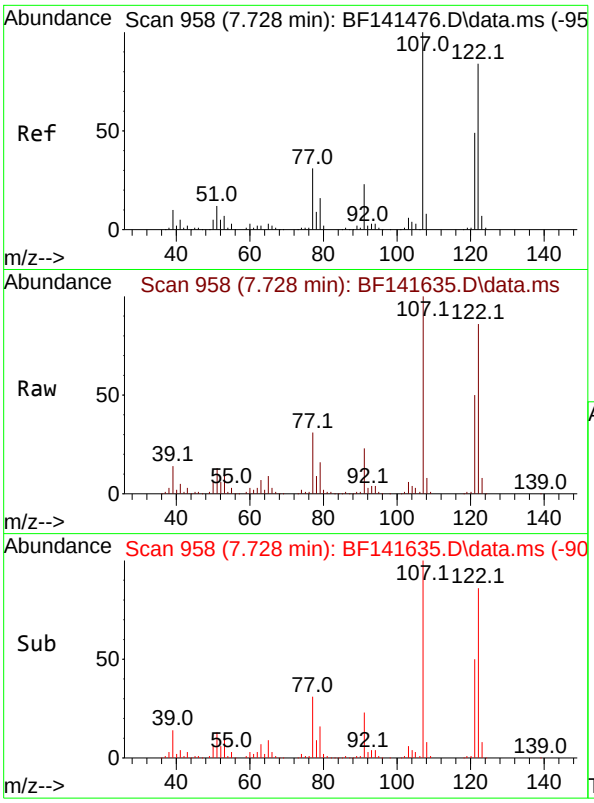


#26
2-Nitrophenol
Concen: 44.902 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:139 Resp: 139383

Ion	Ratio	Lower	Upper
139	100		
109	32.1	27.0	40.6
65	53.5	47.1	70.7



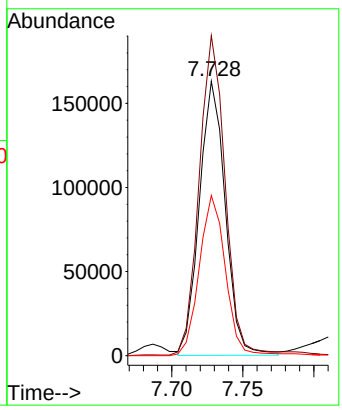


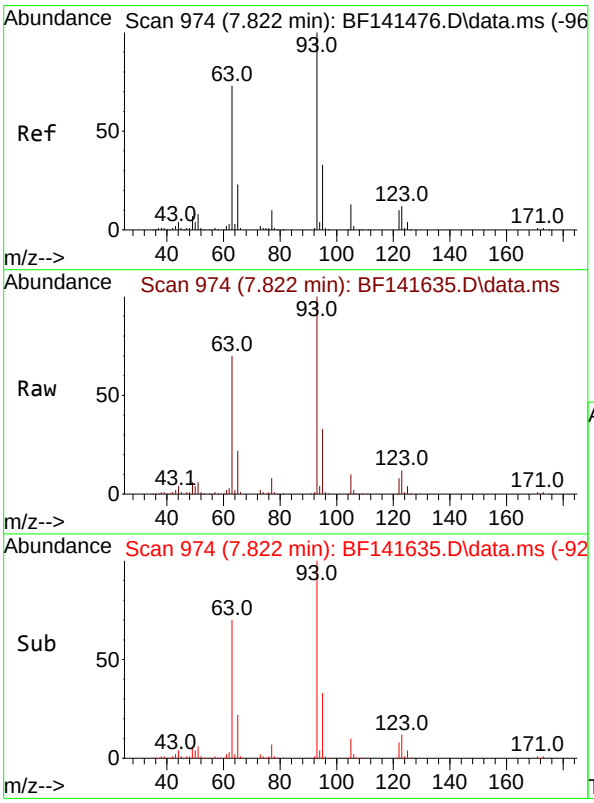
#27
2,4-Dimethylphenol
Concen: 57.126 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:122 Resp: 207156

Ion	Ratio	Lower	Upper
122	100		
107	116.6	94.3	141.5
121	58.4	46.0	69.0

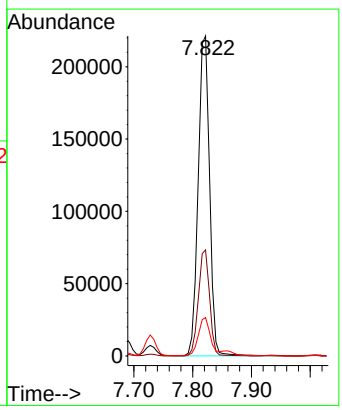


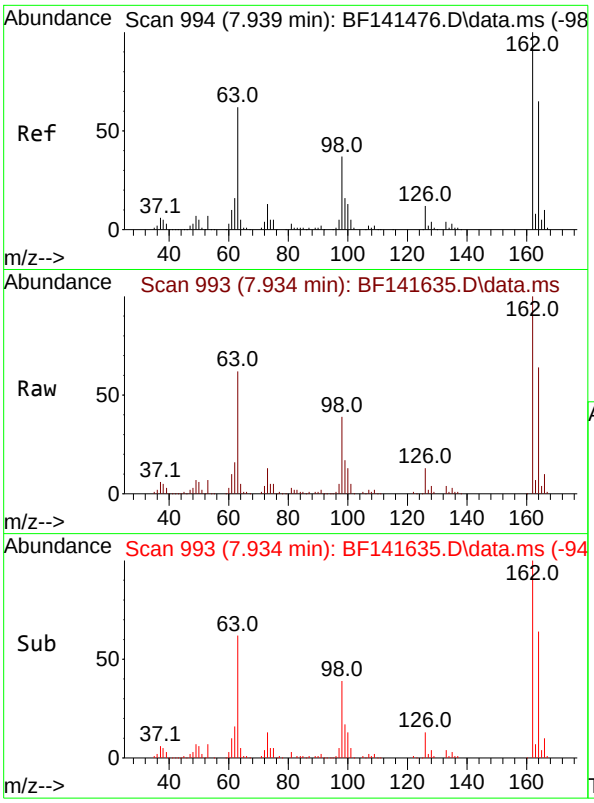


#28
bis(2-Chloroethoxy)methane
Concen: 45.475 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 93 Resp: 297285

Ion	Ratio	Lower	Upper
93	100		
95	33.2	26.1	39.1
123	12.0	9.5	14.3



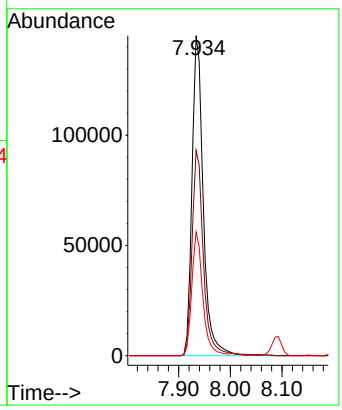


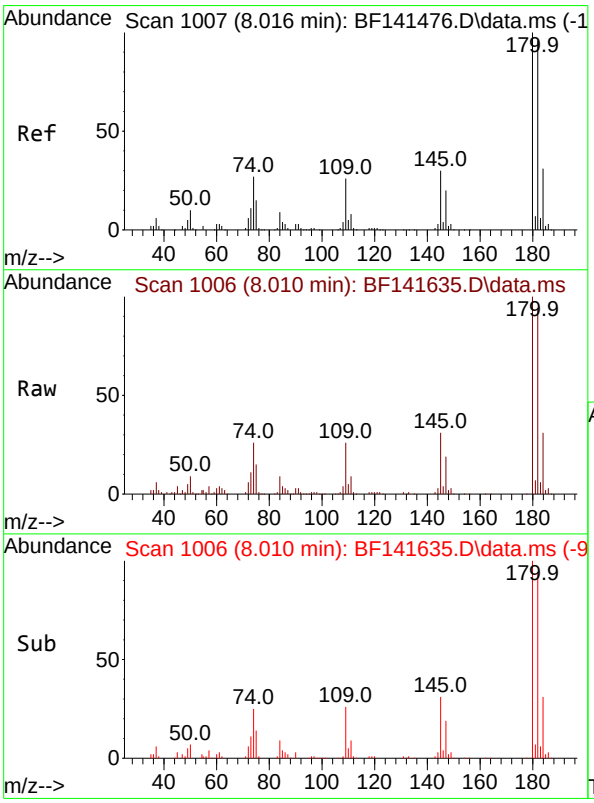
#29
2,4-Dichlorophenol
Concen: 44.857 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:162 Resp: 219784

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.6	84.6
98	38.6	17.2	57.2

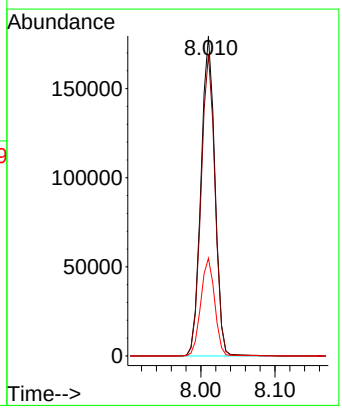


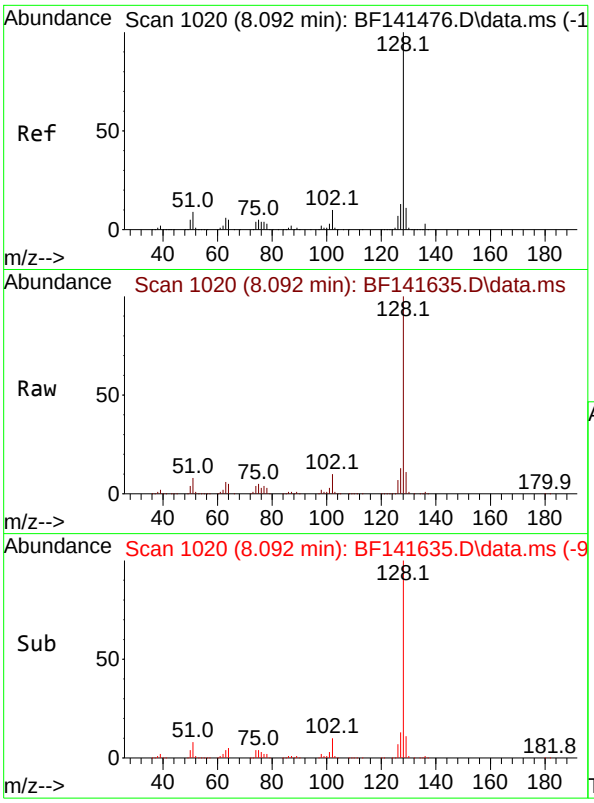


#30
1,2,4-Trichlorobenzene
Concen: 43.736 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:180 Resp: 233356

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
145	30.6	24.2	36.4



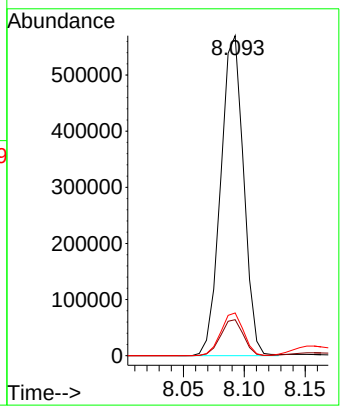


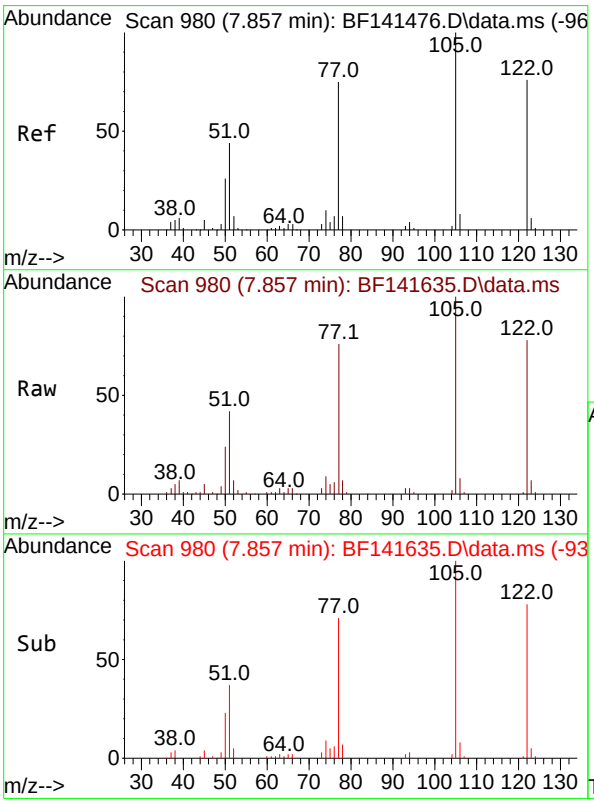
#31
Naphthalene
Concen: 42.968 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:128 Resp: 746429

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.4	10.7	16.1

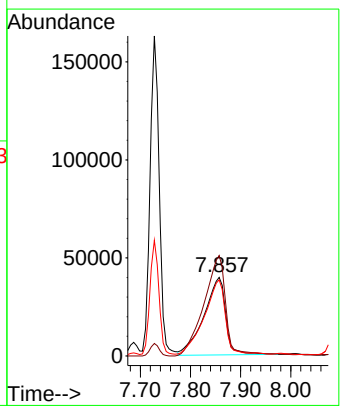


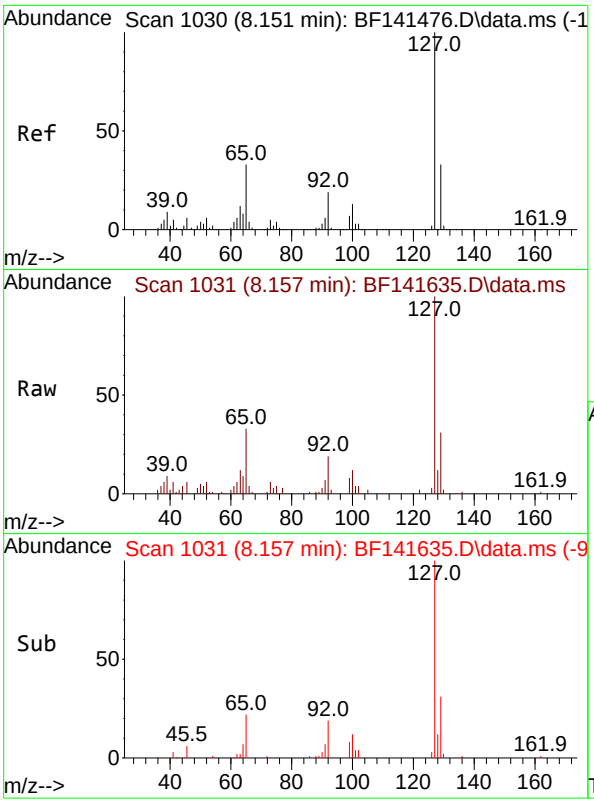


#32
Benzoic acid
Concen: 31.858 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.035 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:122 Resp: 120000

Ion	Ratio	Lower	Upper
122	100		
105	127.9	106.5	146.5
77	97.0	76.3	116.3



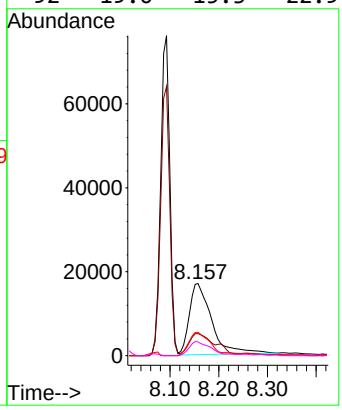


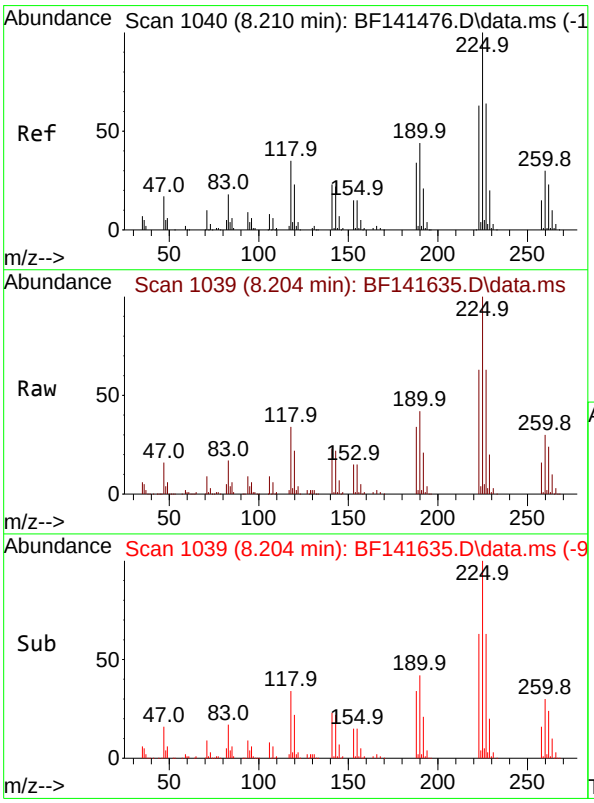
#33
4-Chloroaniline
Concen: 8.903 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:127 Resp: 54001

Ion	Ratio	Lower	Upper
127	100		
129	30.7	26.5	39.7
65	32.5	26.4	39.6
92	19.0	15.3	22.9

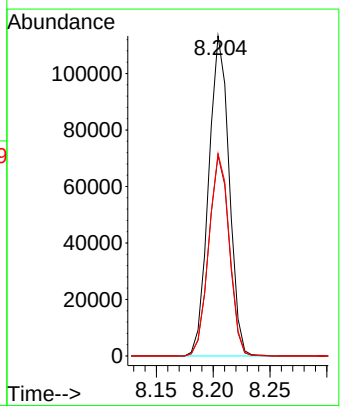


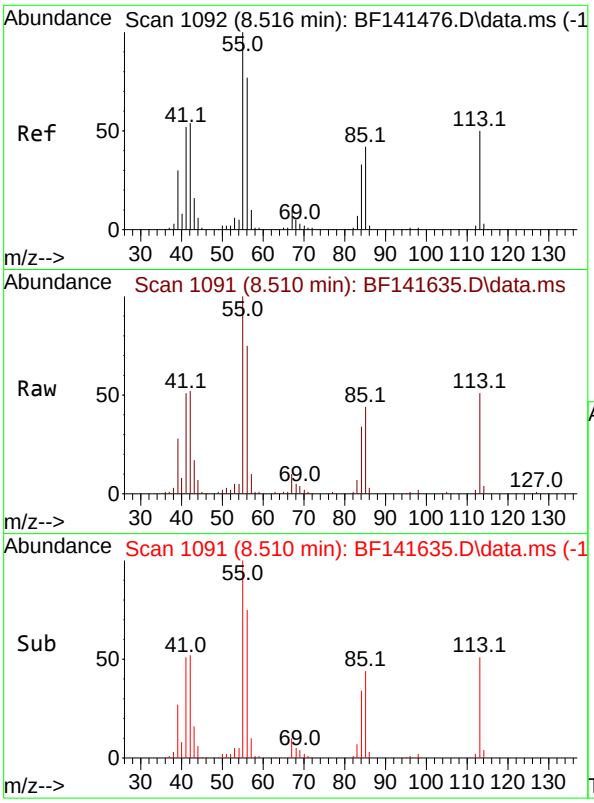


#34
Hexachlorobutadiene
Concen: 44.283 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:225 Resp: 141846

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	63.2	51.0	76.6



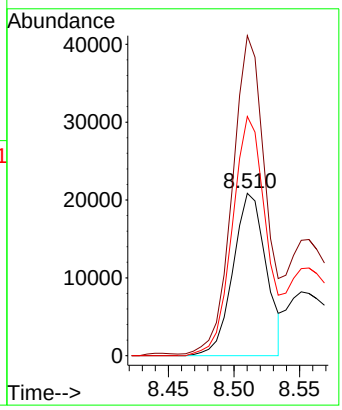


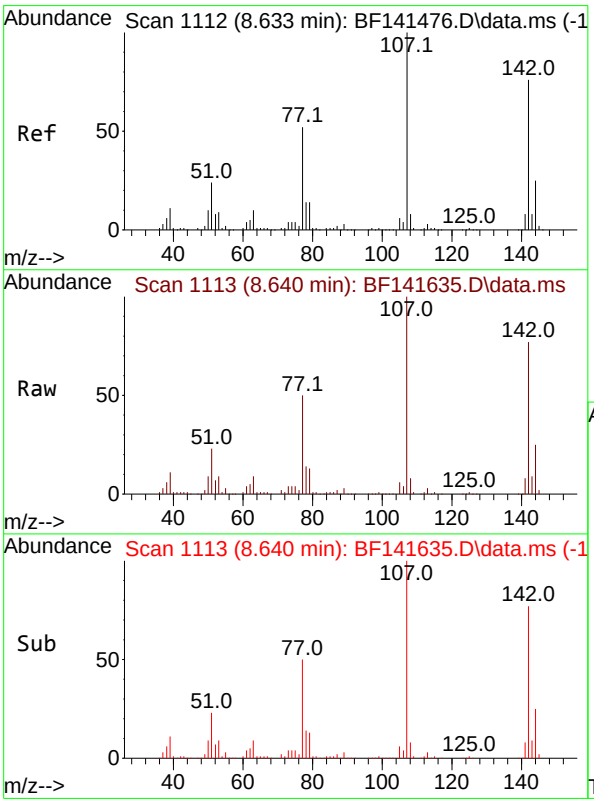
#35
Caprolactam
Concen: 24.586 ng
RT: 8.510 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:113 Resp: 36677

Ion	Ratio	Lower	Upper
113	100		
55	197.0	180.8	220.8
56	147.2	133.6	173.6

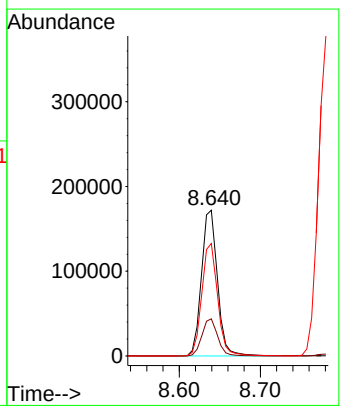


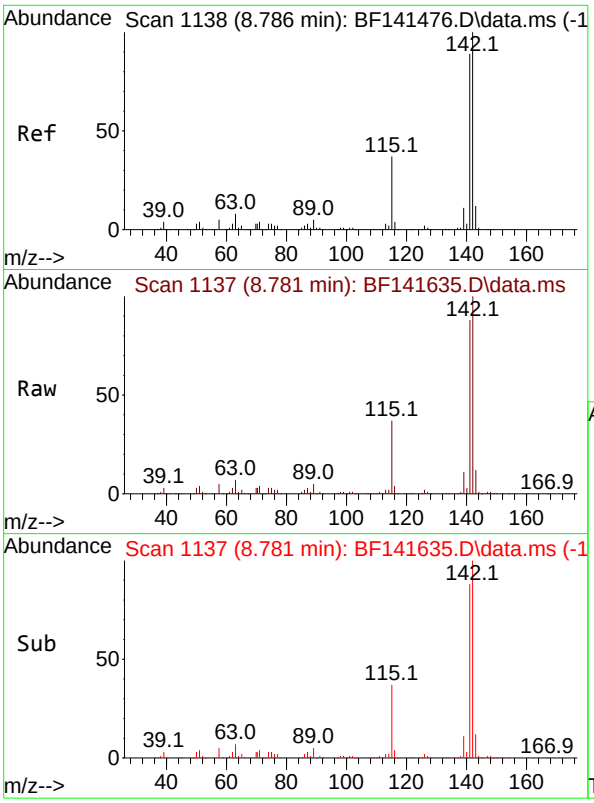


#36
4-Chloro-3-methylphenol
Concen: 43.331 ng
RT: 8.640 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:107 Resp: 235173

Ion	Ratio	Lower	Upper
107	100		
144	25.4	19.7	29.5
142	77.1	60.8	91.2



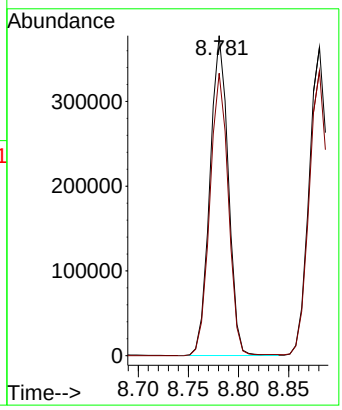


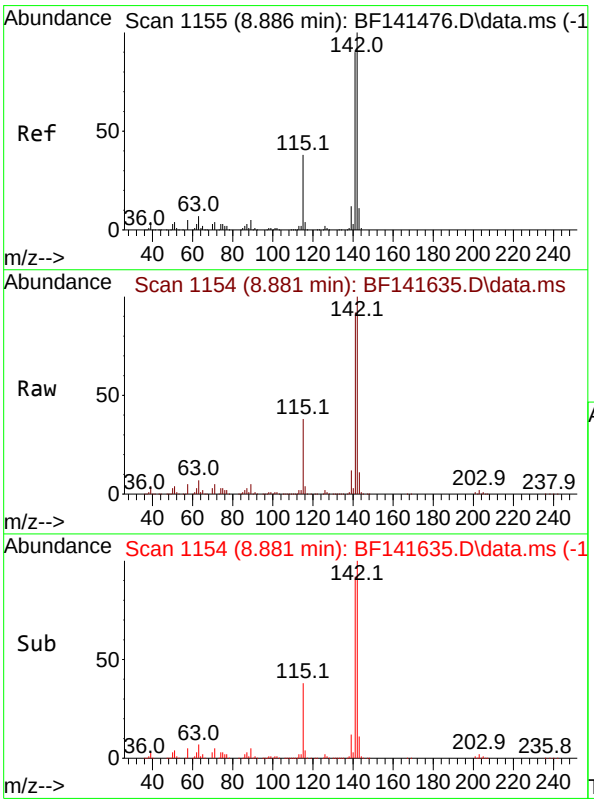
#37
2-Methylnaphthalene
Concen: 42.527 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:142 Resp: 480745

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8

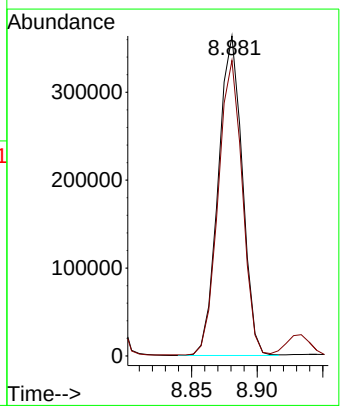


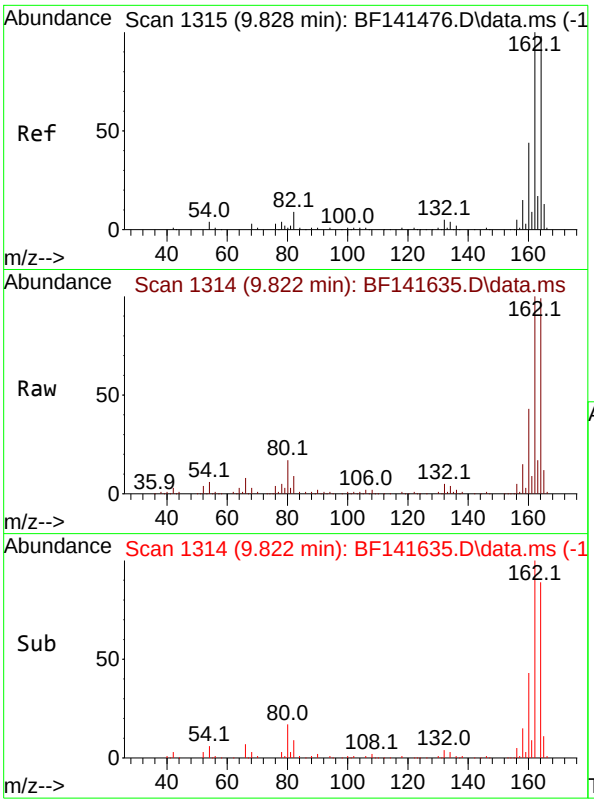


#38
1-Methylnaphthalene
Concen: 42.374 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:142 Resp: 463938

Ion	Ratio	Lower	Upper
142	100		
141	92.3	72.1	108.1



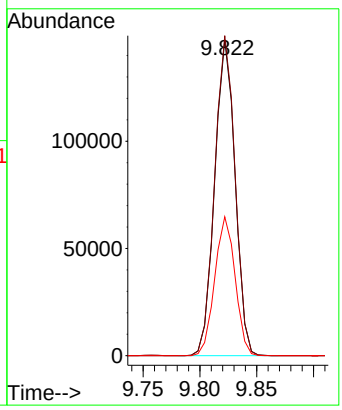


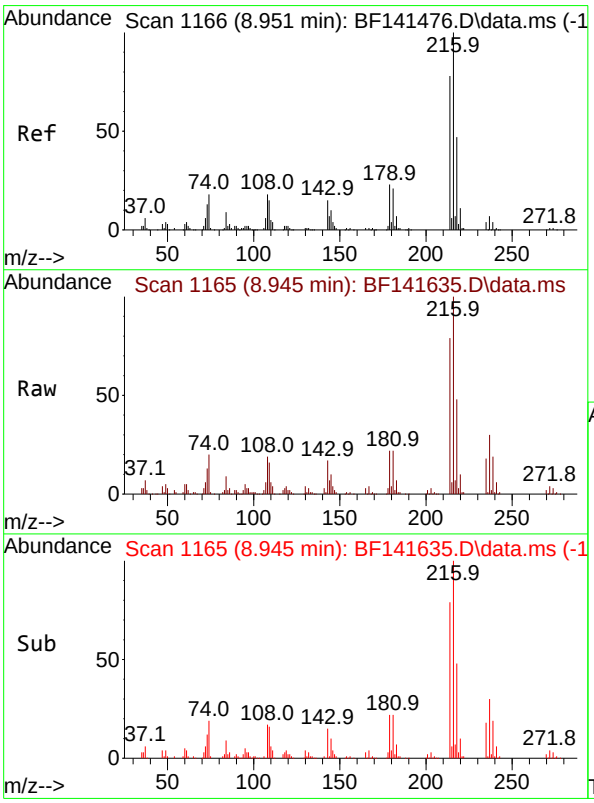
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:164 Resp: 183625

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.3	121.9
160	44.0	35.9	53.9

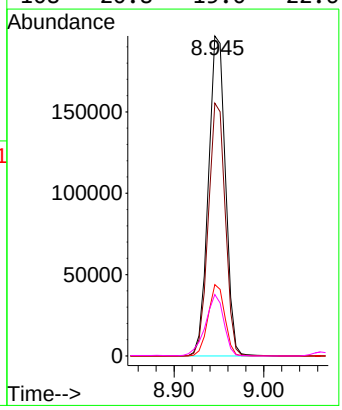


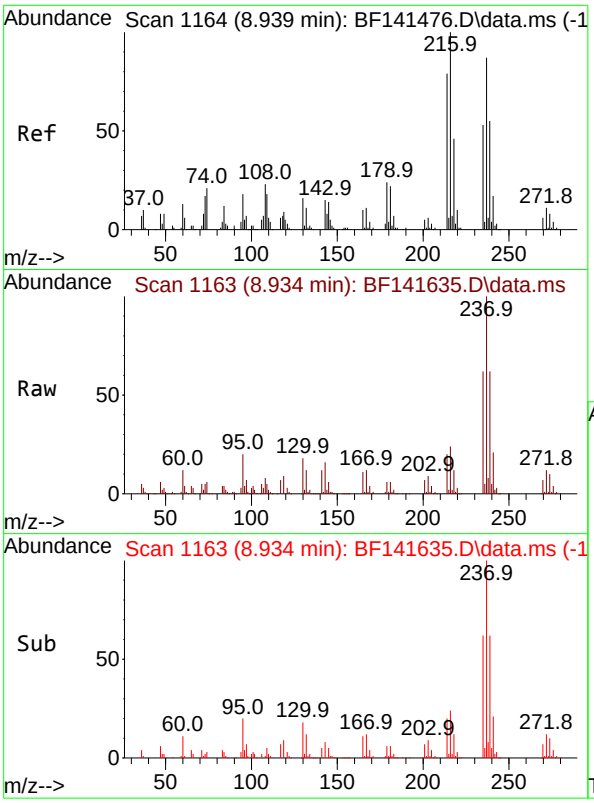


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.806 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:216 Resp: 259283

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.3	93.5
179	21.8	18.0	27.0
108	20.8	15.0	22.6



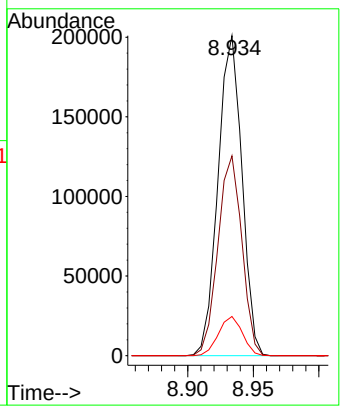


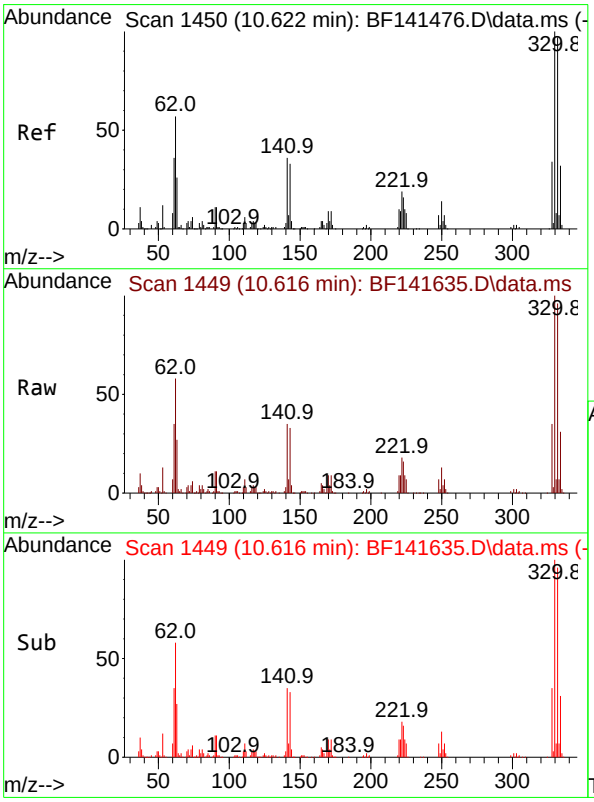
#41
Hexachlorocyclopentadiene
Concen: 144.126 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:237 Resp: 254667

Ion	Ratio	Lower	Upper
237	100		
235	62.5	41.4	81.4
272	12.3	0.0	32.4

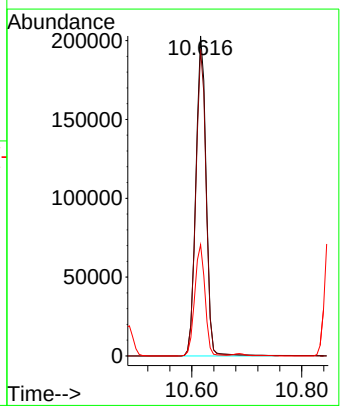


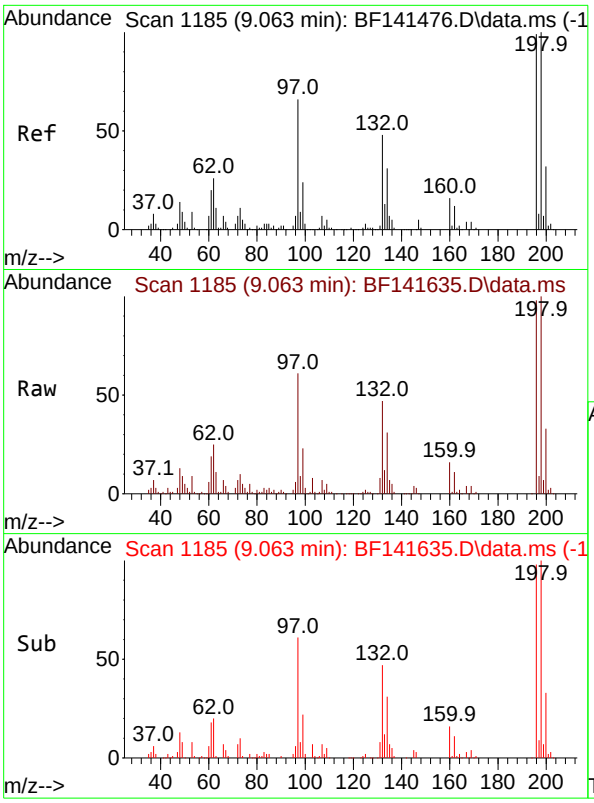


#42
2,4,6-Tribromophenol
Concen: 143.067 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:330 Resp: 263901

Ion	Ratio	Lower	Upper
330	100		
332	96.1	78.5	117.7
141	34.8	31.0	46.4



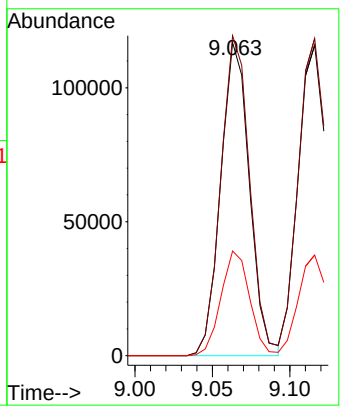


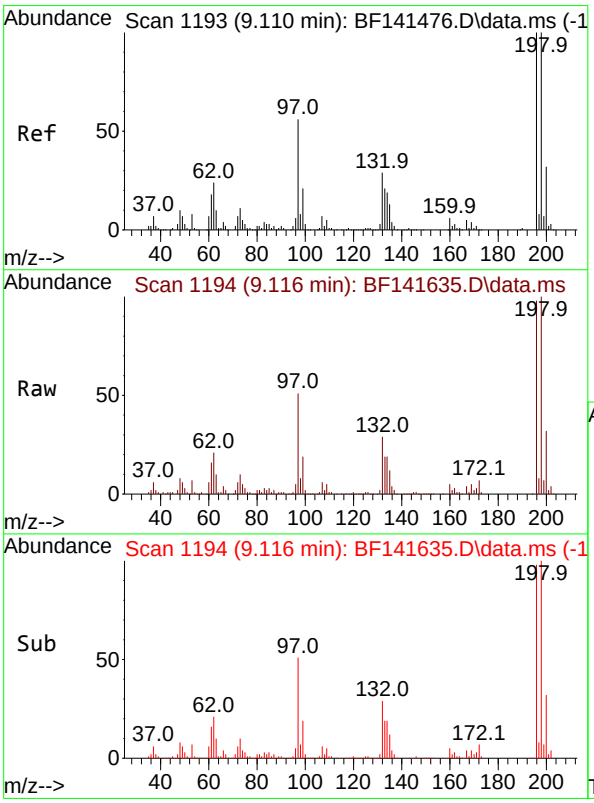
#43
2,4,6-Trichlorophenol
Concen: 43.956 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:196 Resp: 150924

Ion	Ratio	Lower	Upper
196	100		
198	102.2	80.6	121.0
200	33.4	25.5	38.3

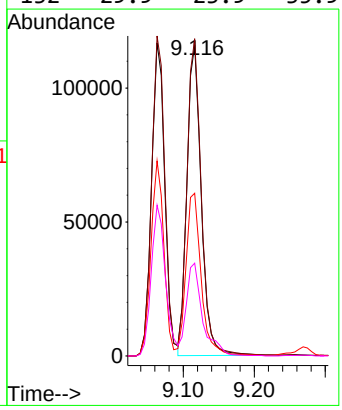


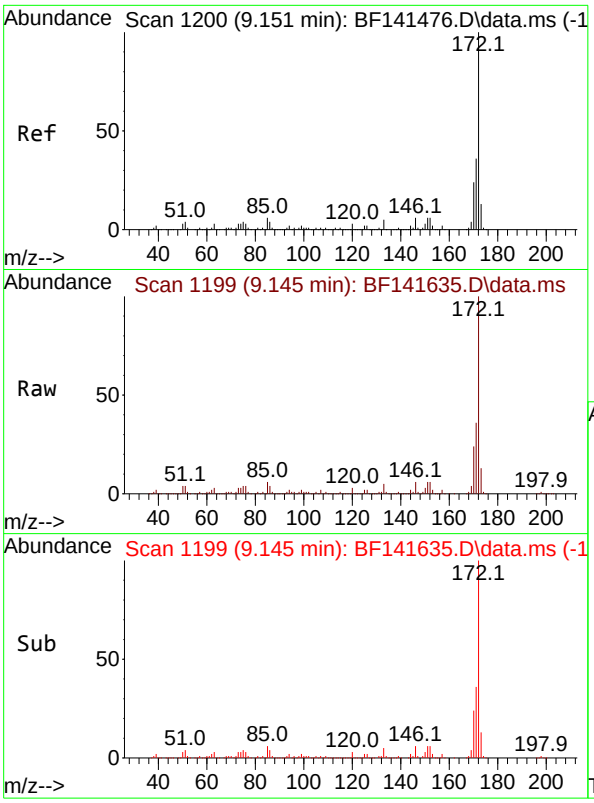


#44
2,4,5-Trichlorophenol
Concen: 43.826 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:196 Resp: 163085

Ion	Ratio	Lower	Upper
196	100		
198	102.1	79.8	119.8
97	52.4	44.8	67.2
132	29.9	23.9	35.9



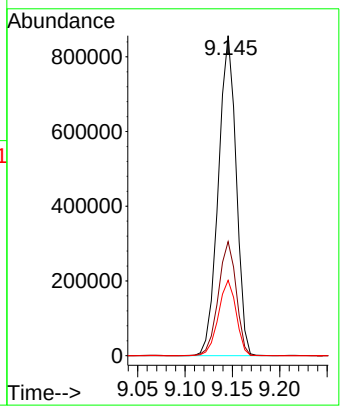


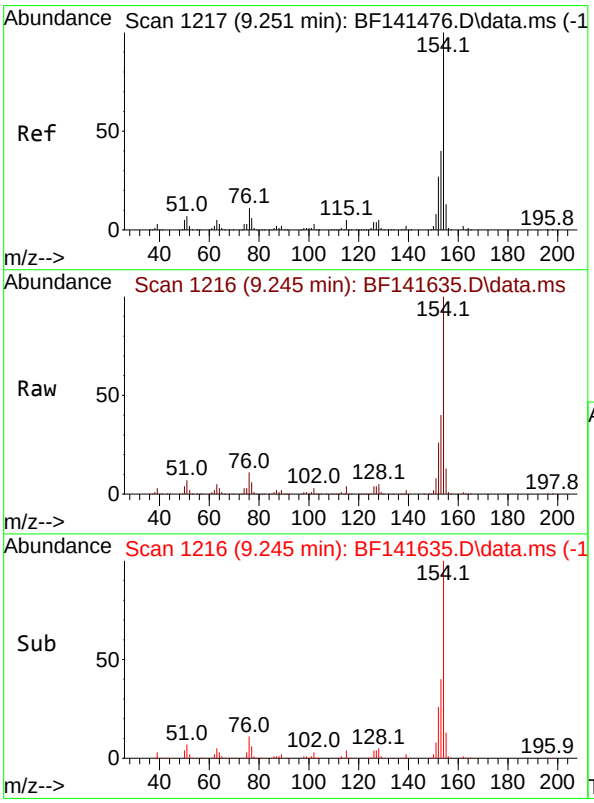
#45
2-Fluorobiphenyl
Concen: 94.311 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:172 Resp: 1124066

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.7	43.1
170	23.6	18.9	28.3

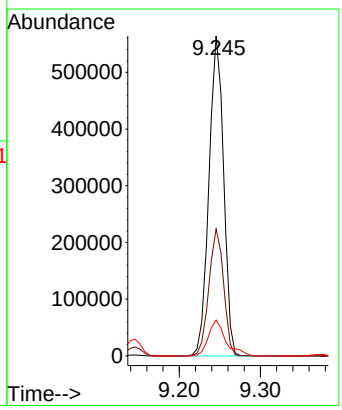


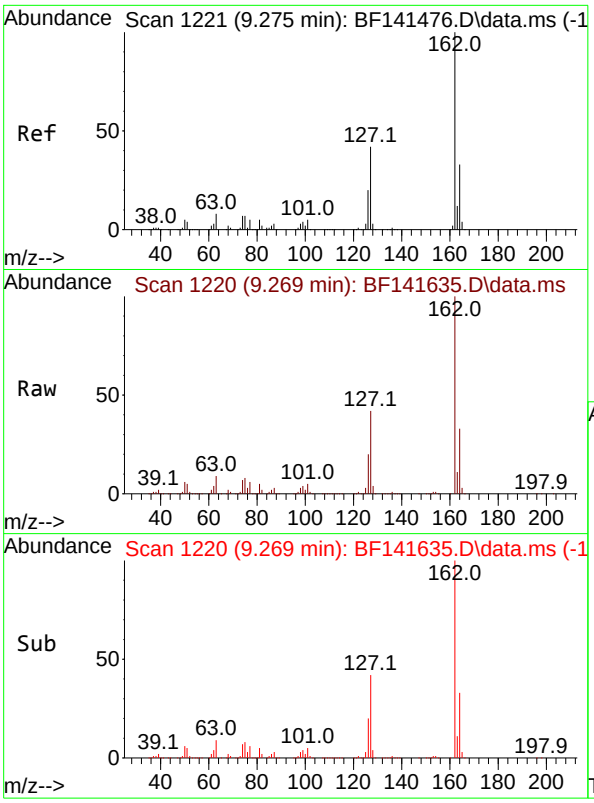


#46
1,1'-Biphenyl
Concen: 49.589 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:154 Resp: 705956

Ion	Ratio	Lower	Upper
154	100		
153	39.7	20.4	60.4
76	11.2	0.0	30.8



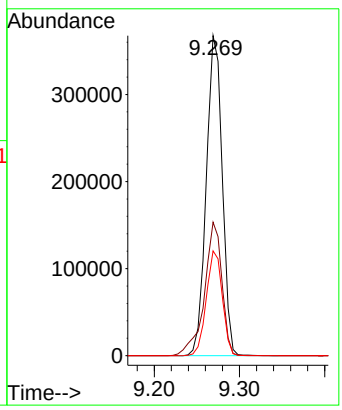


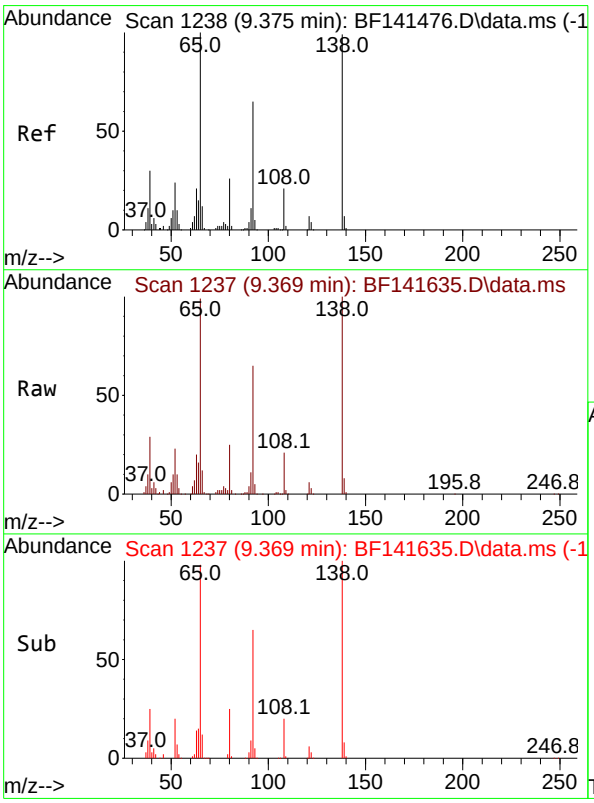
#47
2-Chloronaphthalene
Concen: 45.423 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:162 Resp: 478181

Ion	Ratio	Lower	Upper
162	100		
127	41.7	34.1	51.1
164	32.8	26.3	39.5

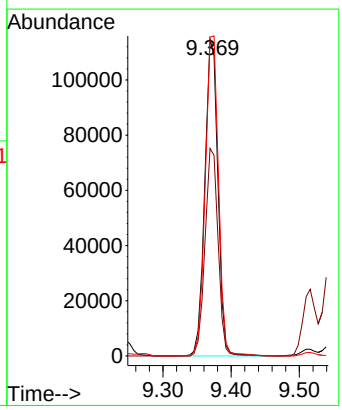


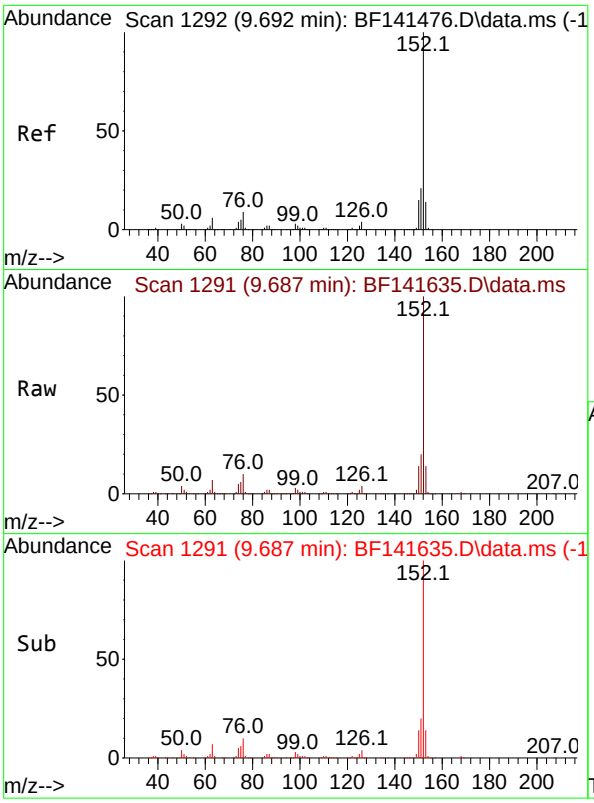


#48
2-Nitroaniline
Concen: 43.466 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion: 65 Resp: 153564

Ion	Ratio	Lower	Upper
65	100		
92	65.5	52.2	78.2
138	100.7	79.5	119.3



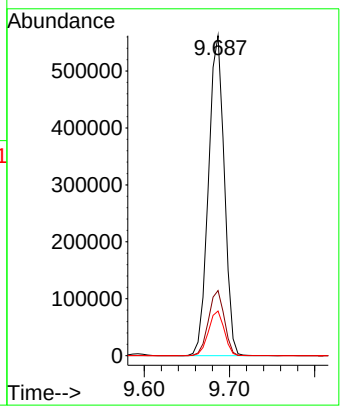


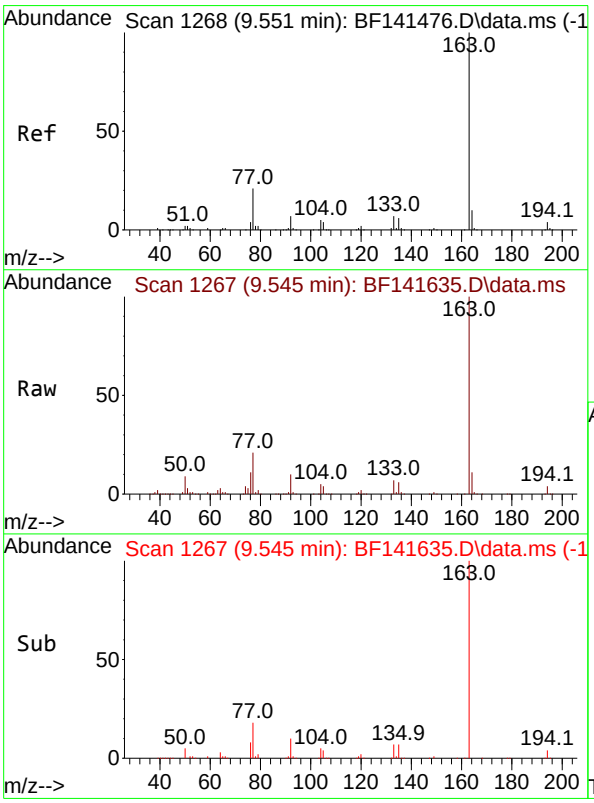
#49
Acenaphthylene
Concen: 46.329 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:152 Resp: 725425

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6
153	14.0	10.9	16.3

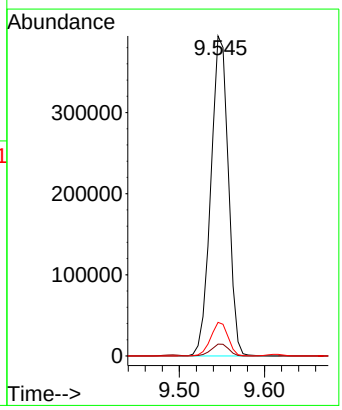


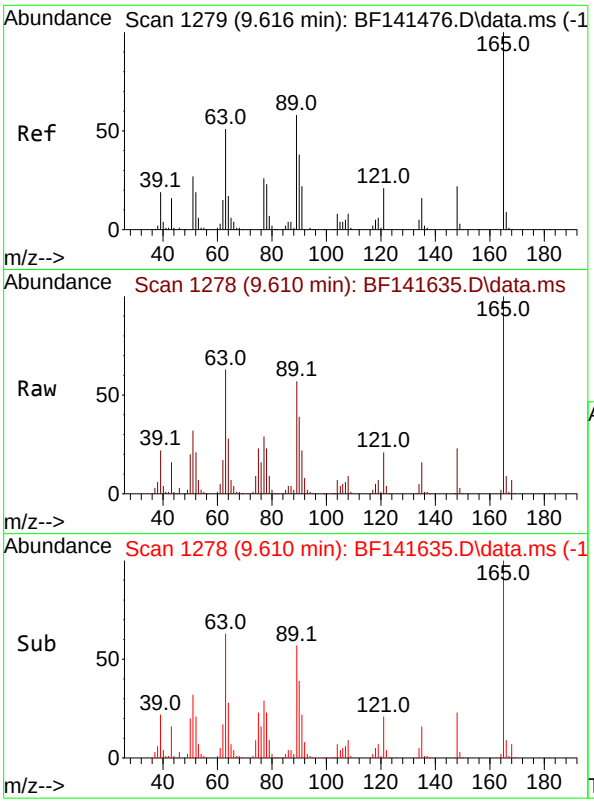


#50
Dimethylphthalate
Concen: 45.120 ng
RT: 9.545 min Scan# 1267
Delta R.T. -0.017 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:163 Resp: 562461

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.4
164	10.5	7.9	11.9



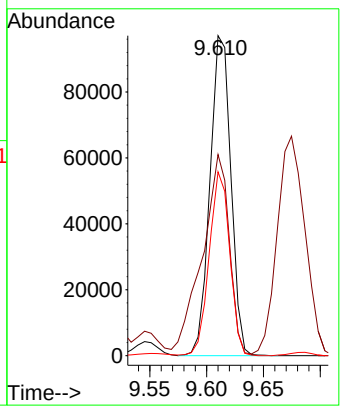


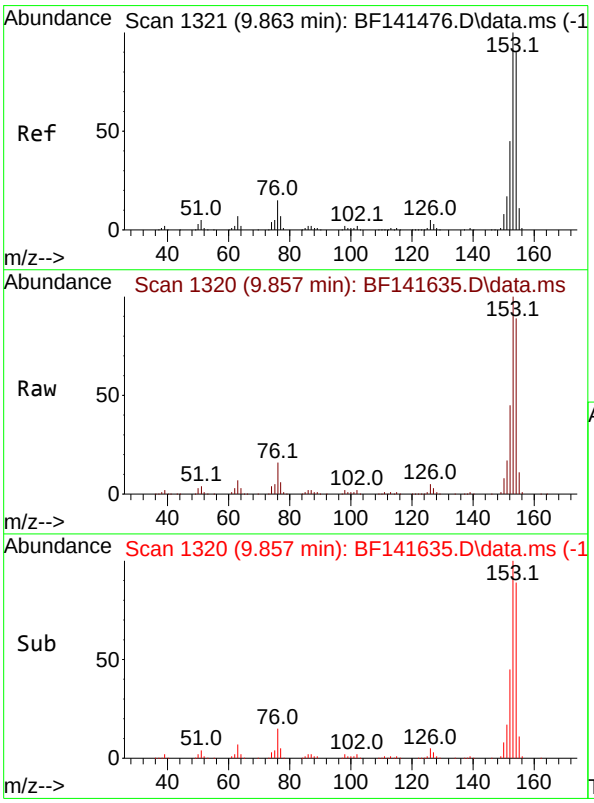
#51
2,6-Dinitrotoluene
Concen: 45.651 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:165 Resp: 124403

Ion	Ratio	Lower	Upper
165	100		
63	62.8	49.4	74.0
89	57.5	46.5	69.7

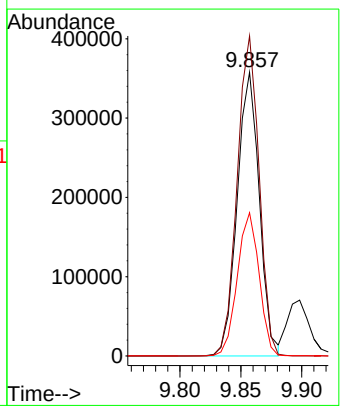


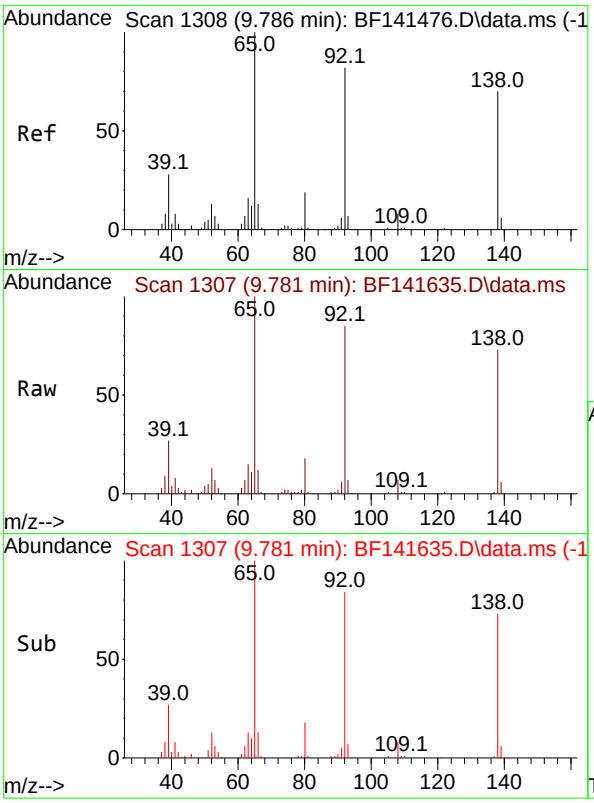


#52
Acenaphthene
Concen: 43.127 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:154 Resp: 453985

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.2	133.8
152	50.5	39.8	59.8



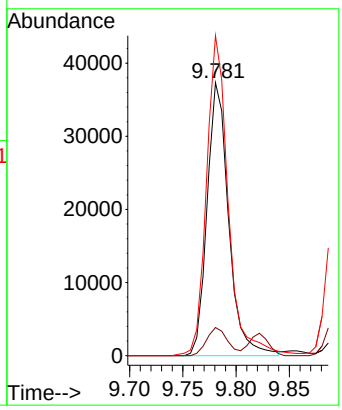


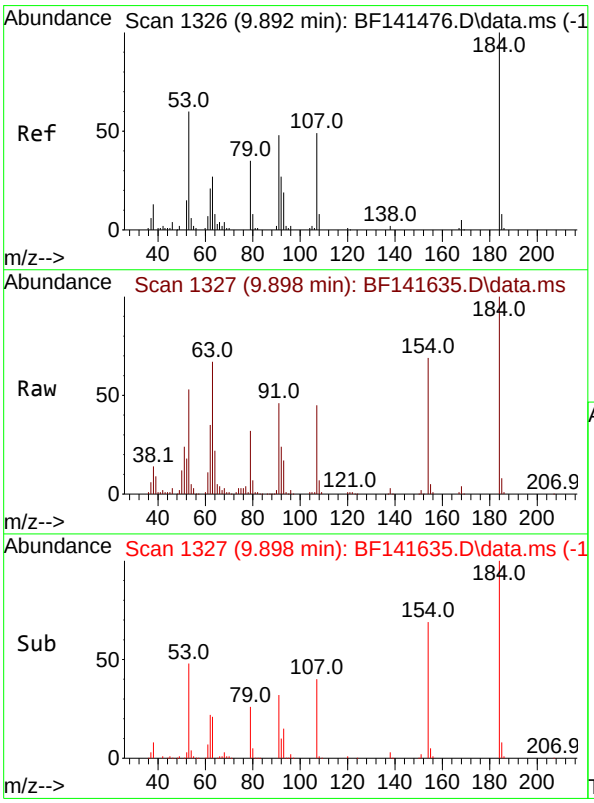
#53
3-Nitroaniline
Concen: 17.951 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:138 Resp: 52650

Ion	Ratio	Lower	Upper
138	100		
108	10.3	9.0	13.4
92	117.3	93.7	140.5

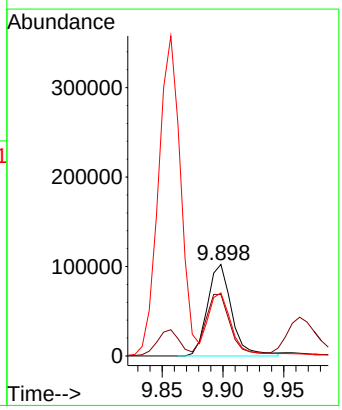


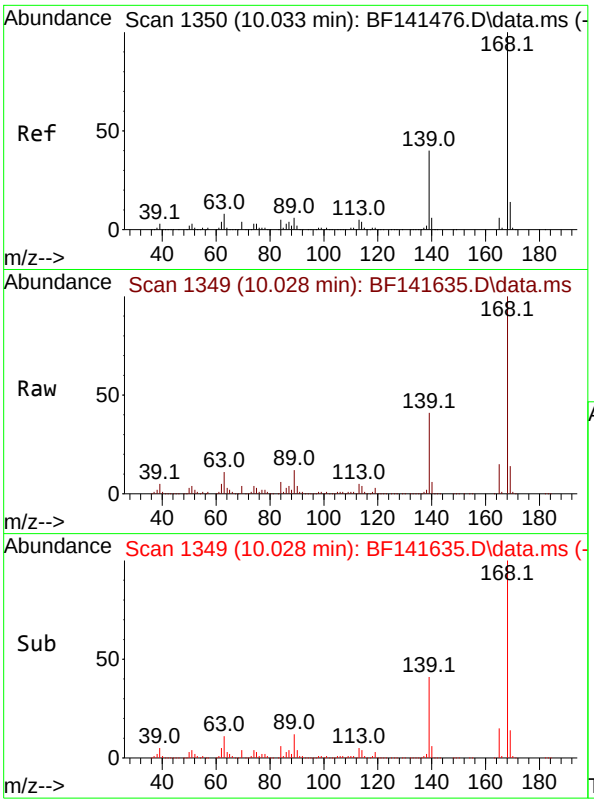


#54
2,4-Dinitrophenol
Concen: 87.571 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:184 Resp: 141831

Ion	Ratio	Lower	Upper
184	100		
63	67.1	61.0	91.6
154	68.9	59.9	89.9



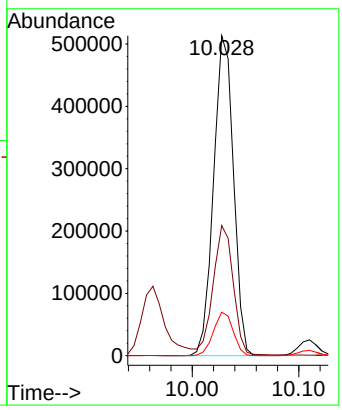


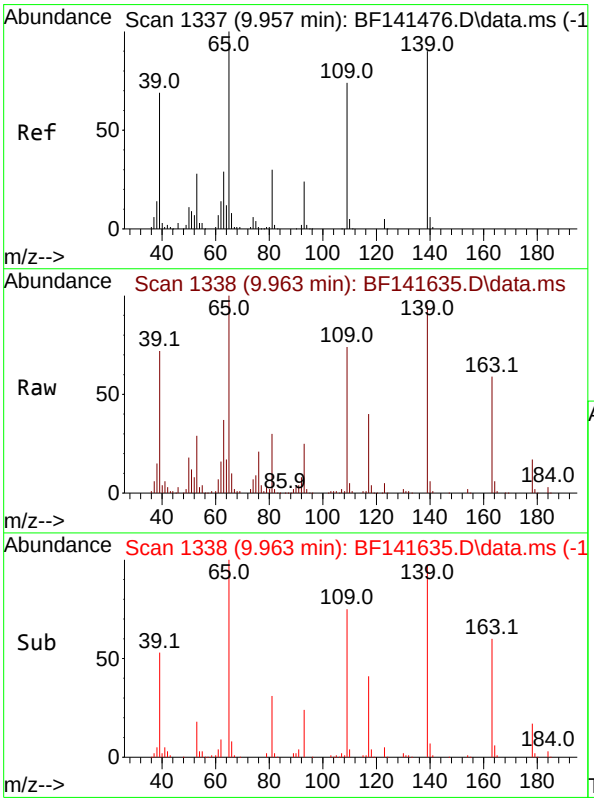
#55
Dibenzofuran
Concen: 42.998 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:168 Resp: 664370

Ion	Ratio	Lower	Upper
168	100		
139	40.7	32.7	49.1
169	13.6	10.8	16.2

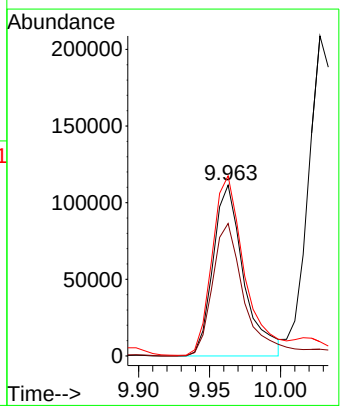


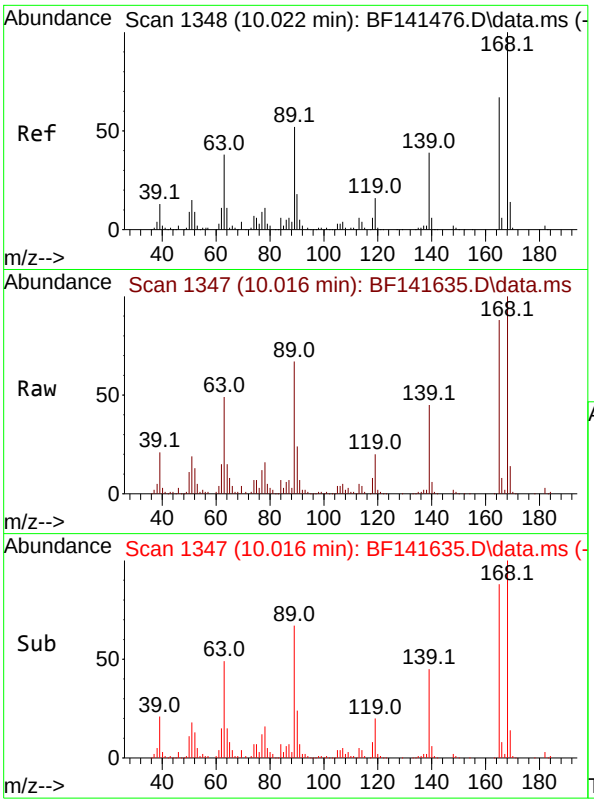


#56
4-Nitrophenol
Concen: 77.157 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:139 Resp: 167993

Ion	Ratio	Lower	Upper
139	100		
109	77.5	62.0	102.0
65	105.4	91.2	131.2



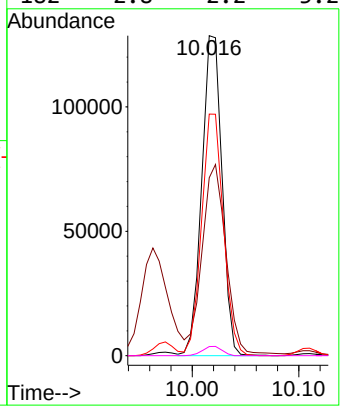


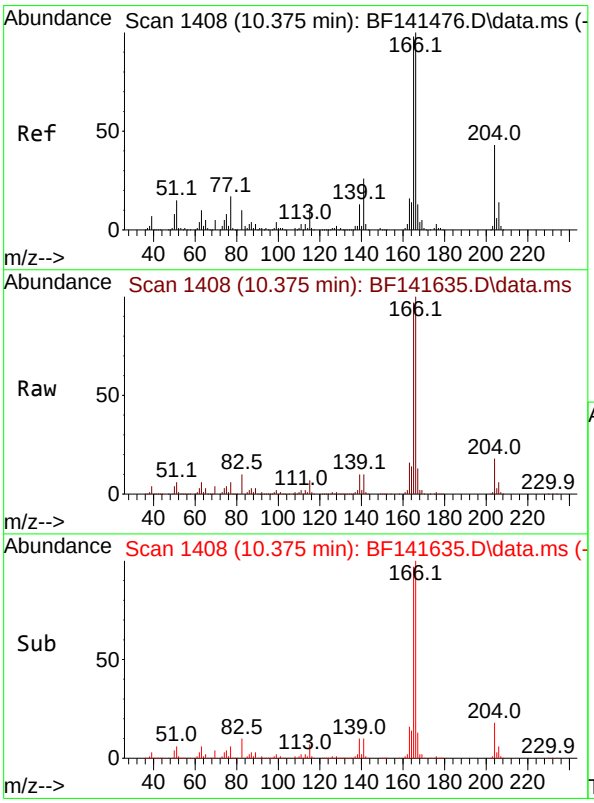
#57
2,4-Dinitrotoluene
Concen: 46.887 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:165 Resp: 170097

Ion	Ratio	Lower	Upper
165	100		
63	55.6	46.4	69.6
89	75.5	61.8	92.6
182	2.8	2.2	3.2

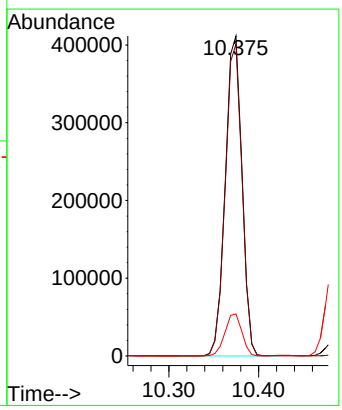


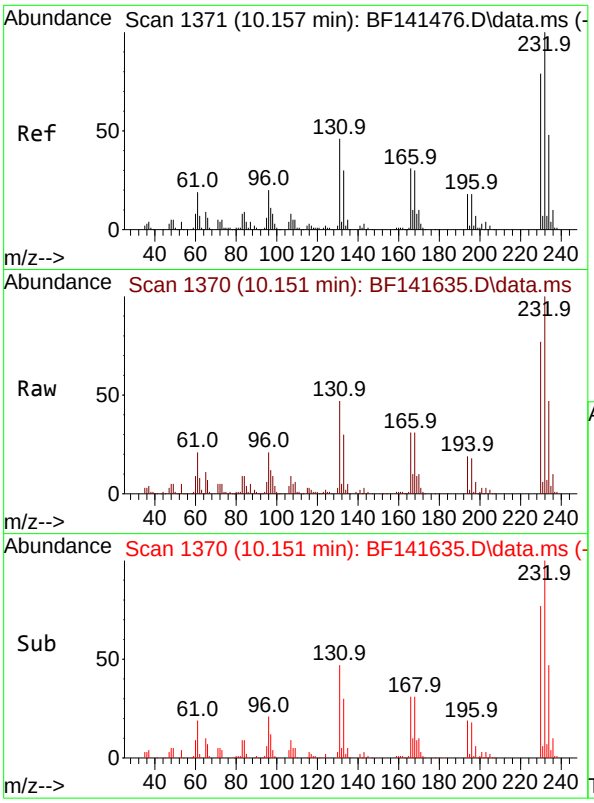


#58
Fluorene
Concen: 44.581 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:166 Resp: 532609

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.2	117.2
167	13.2	10.7	16.1



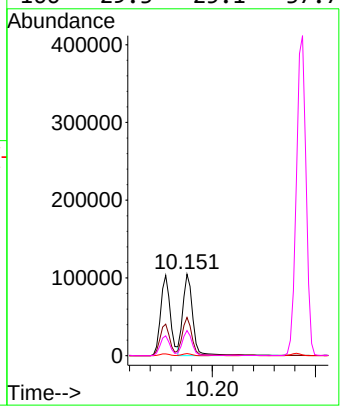


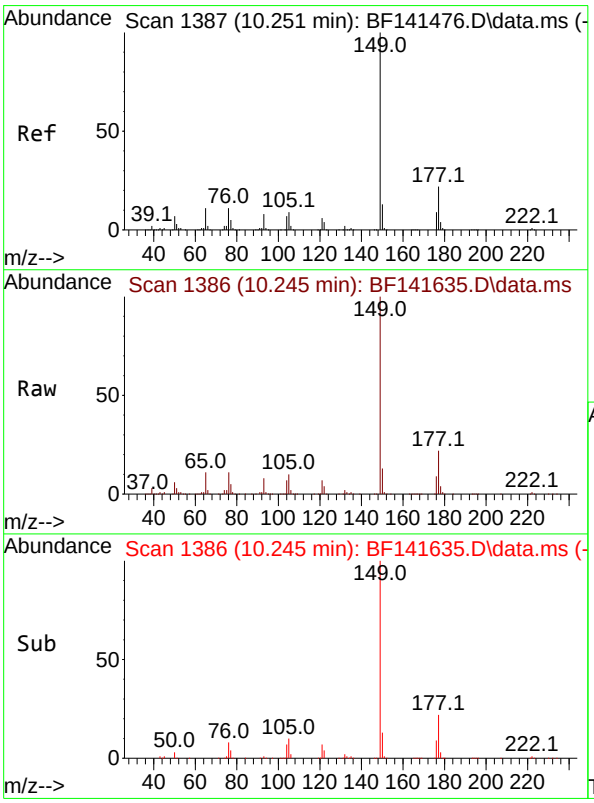
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.249 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:232 Resp: 138555

Ion	Ratio	Lower	Upper
232	100		
131	47.1	39.2	58.8
130	2.4	2.1	3.1
166	29.3	25.1	37.7

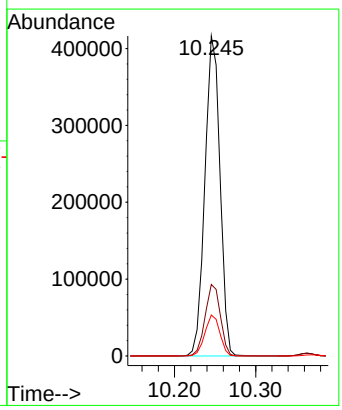


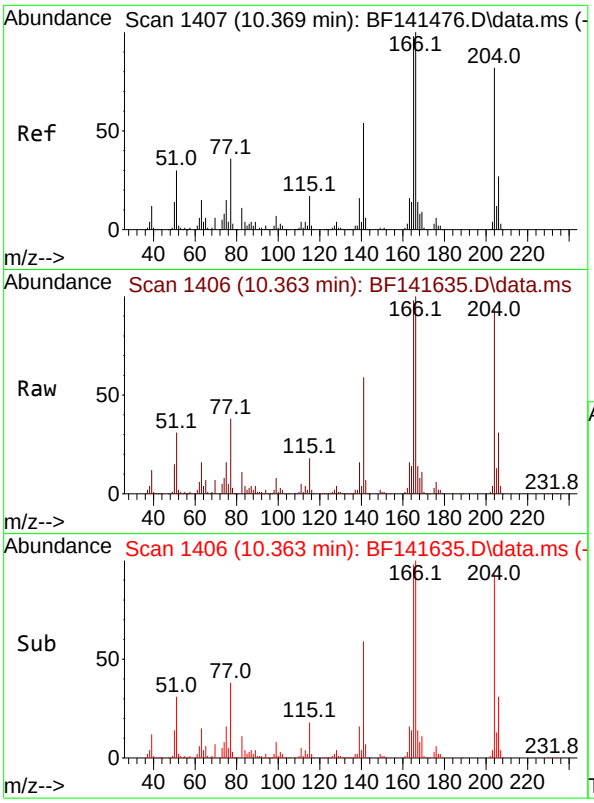


#60
Diethylphthalate
Concen: 43.763 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 536744

Ion	Ratio	Lower	Upper
149	100		
177	22.3	17.8	26.6
150	12.8	10.1	15.1



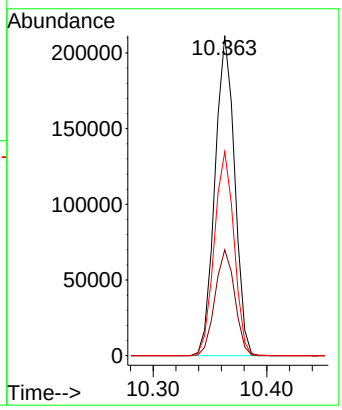


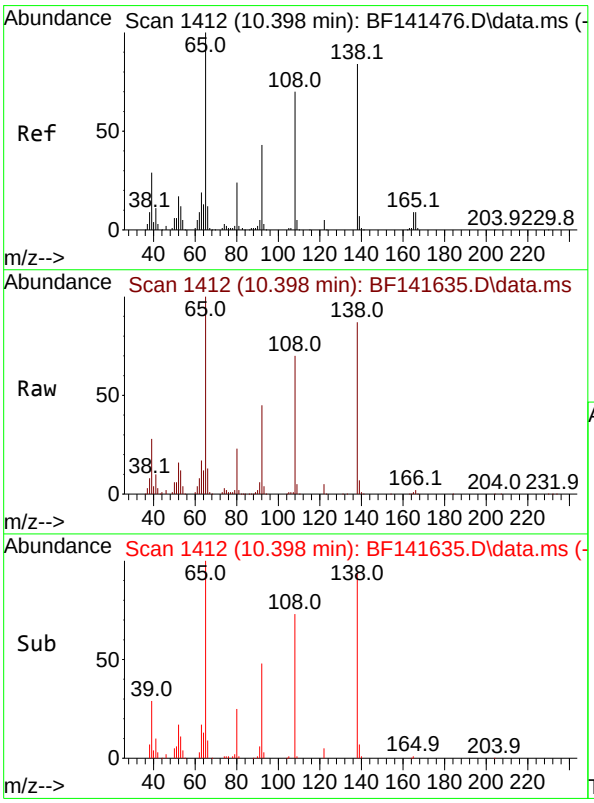
#61
4-Chlorophenyl-phenylether
Concen: 44.318 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:204 Resp: 254718

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.6	40.0
141	63.7	51.9	77.9

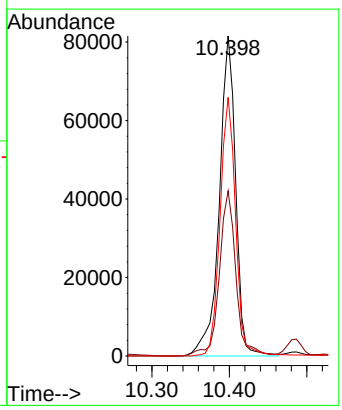


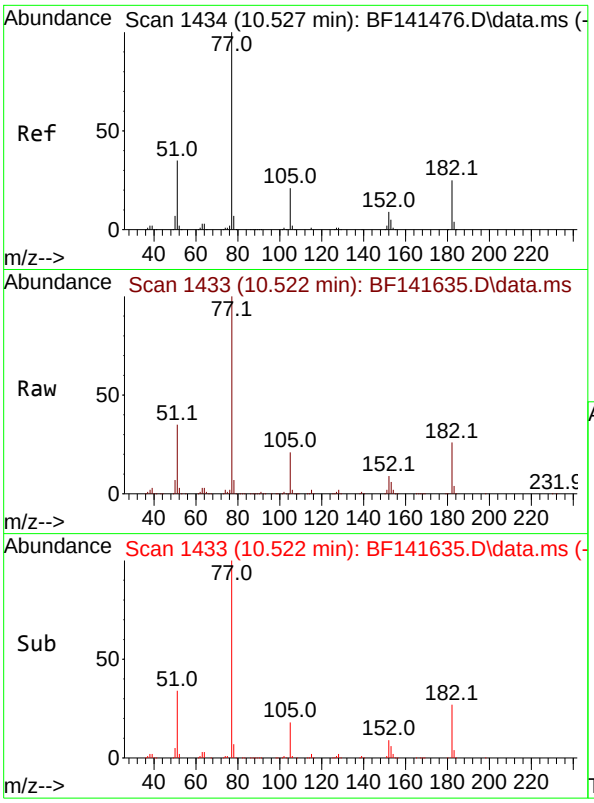


#62
4-Nitroaniline
Concen: 40.299 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:138 Resp: 120020

Ion	Ratio	Lower	Upper
138	100		
92	51.6	31.3	71.3
108	80.8	63.7	103.7



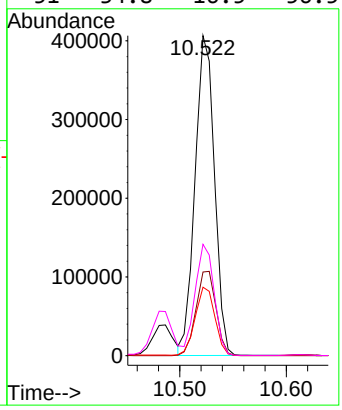


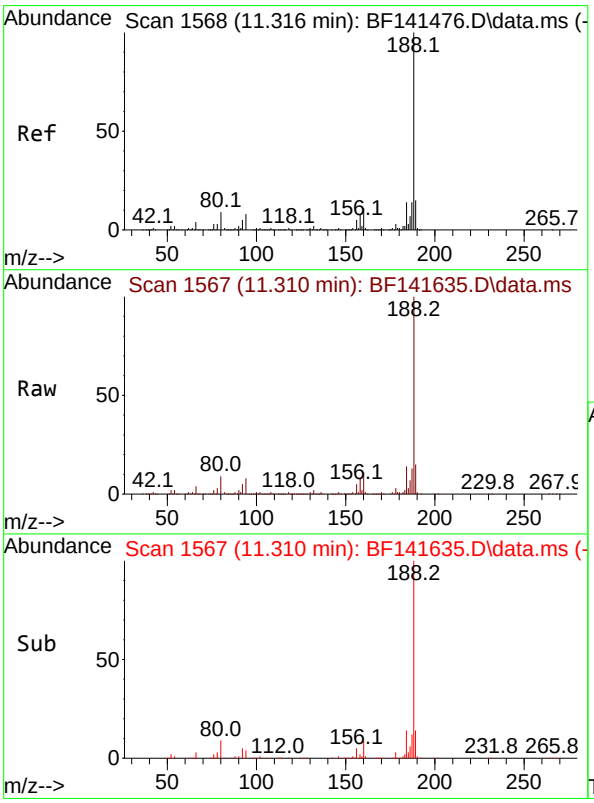
#63
Azobenzene
Concen: 42.291 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion: 77 Resp: 515646

Ion	Ratio	Lower	Upper
77	100		
182	26.1	4.7	44.7
105	21.4	0.4	40.4
51	34.8	16.5	56.5

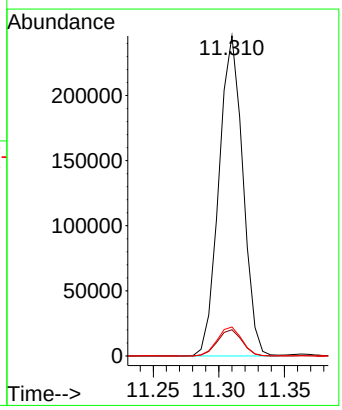


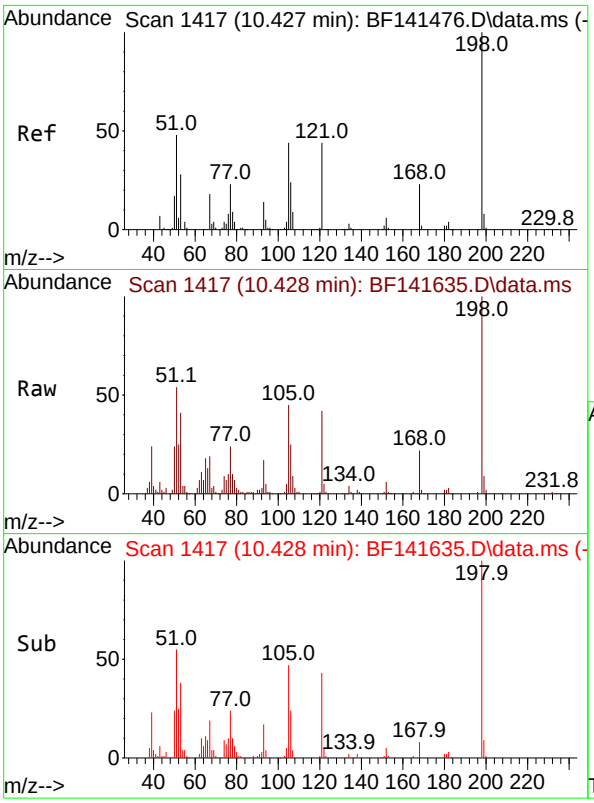


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:188 Resp: 312520

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.6	10.0
80	9.0	7.3	10.9



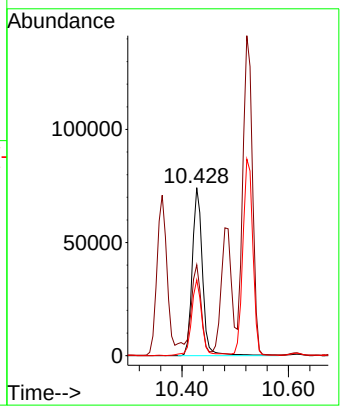


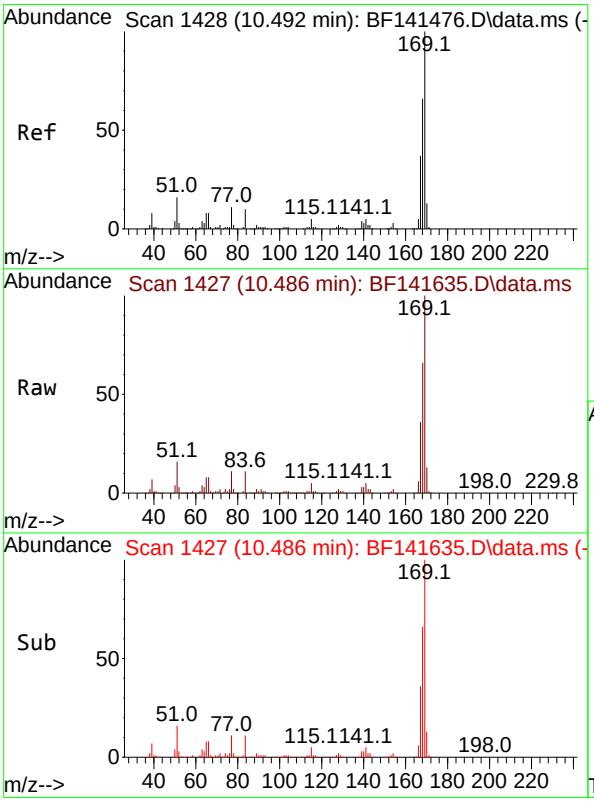
#65
4,6-Dinitro-2-methylphenol
Concen: 45.586 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:198 Resp: 98963

Ion	Ratio	Lower	Upper
198	100		
51	54.1	37.4	77.4
105	45.2	25.2	65.2

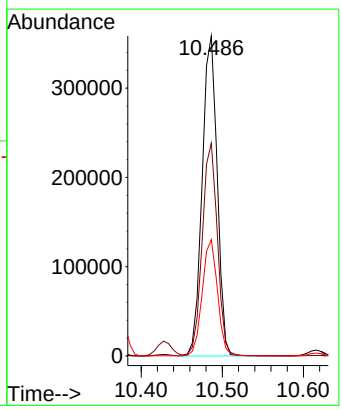


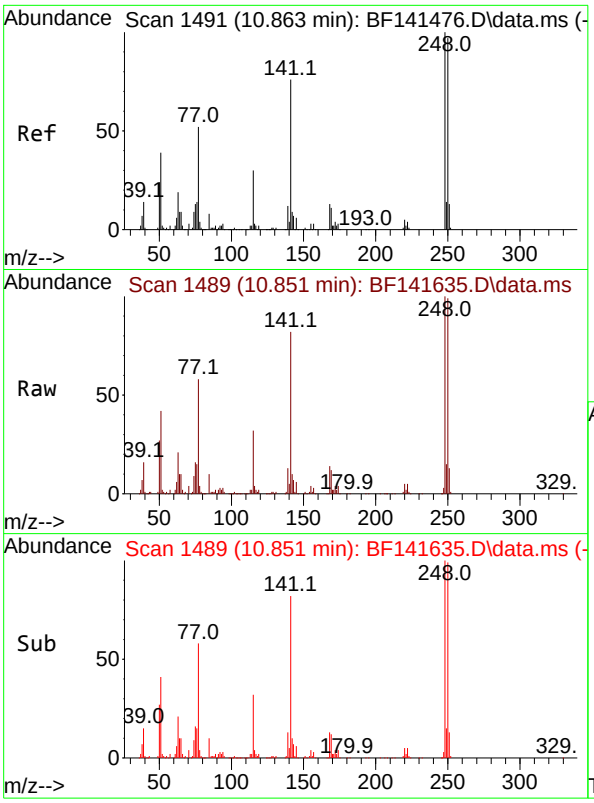


#66
n-Nitrosodiphenylamine
Concen: 45.935 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:169 Resp: 459536

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.3	79.9
167	36.3	29.4	44.2



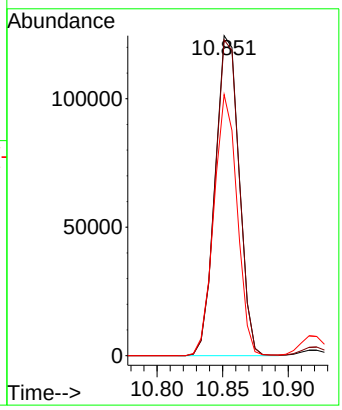


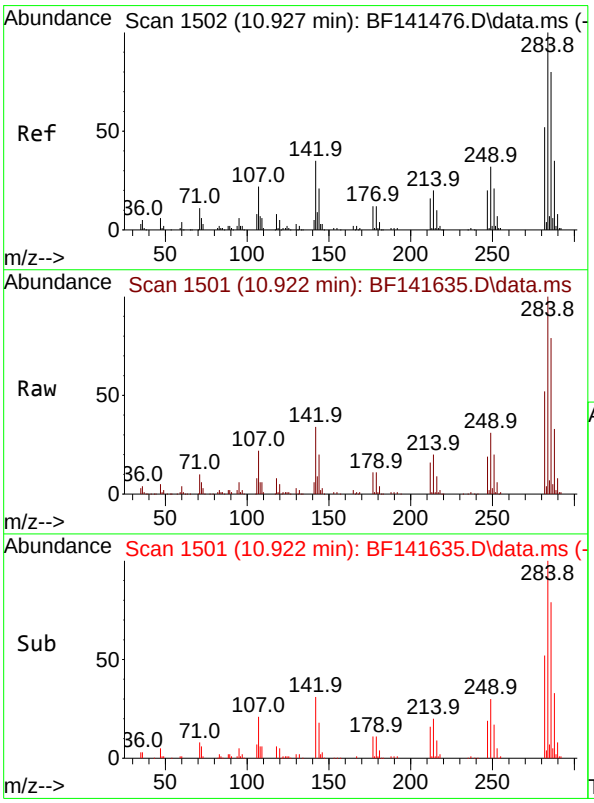
#67
4-Bromophenyl-phenylether
Concen: 45.411 ng
RT: 10.851 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:248 Resp: 158612

Ion	Ratio	Lower	Upper
248	100		
250	98.7	77.8	116.6
141	81.6	60.6	90.8

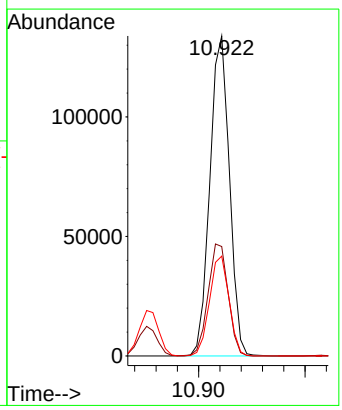


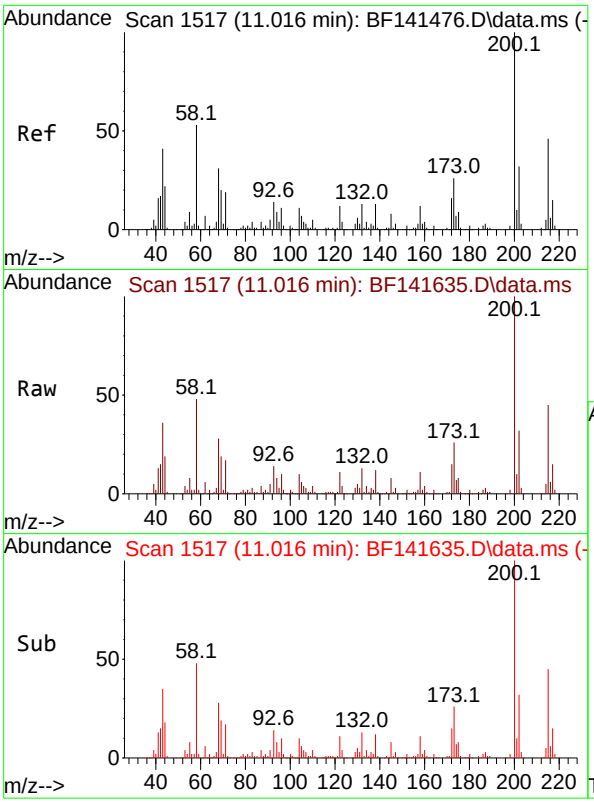


#68
Hexachlorobenzene
Concen: 47.480 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:284 Resp: 170769

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.0	42.0
249	31.2	25.8	38.8



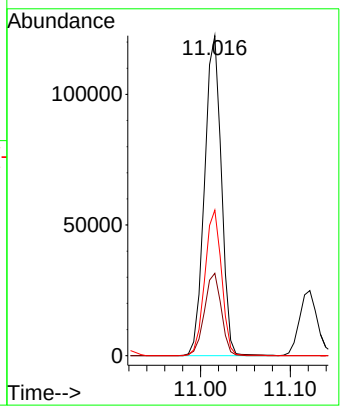


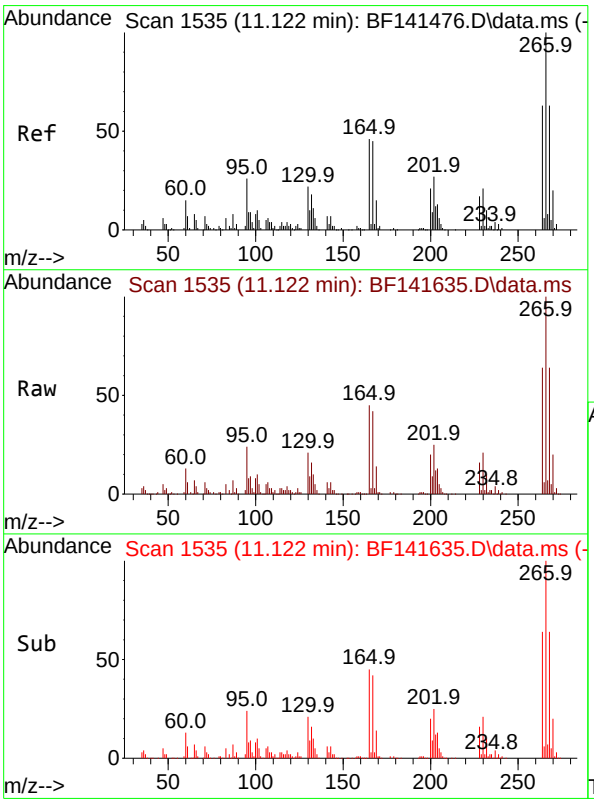
#69
Atrazine
Concen: 52.917 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:200 Resp: 158816

Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.9	45.9
215	45.5	25.9	65.9

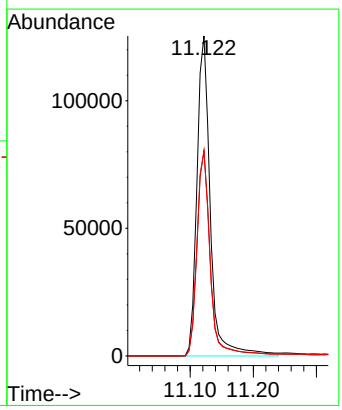


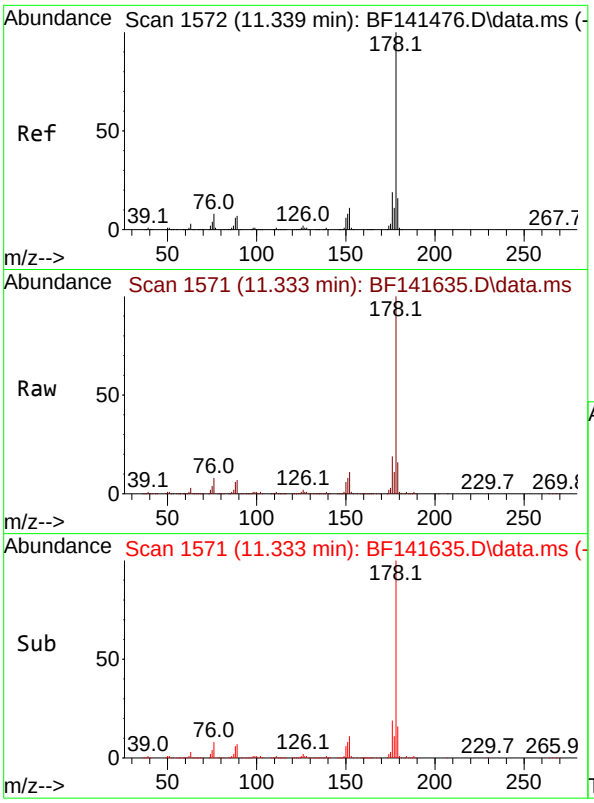


#70
Pentachlorophenol
Concen: 80.079 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:266 Resp: 184164

Ion	Ratio	Lower	Upper
266	100		
268	64.1	50.1	75.1
264	64.1	50.1	75.1



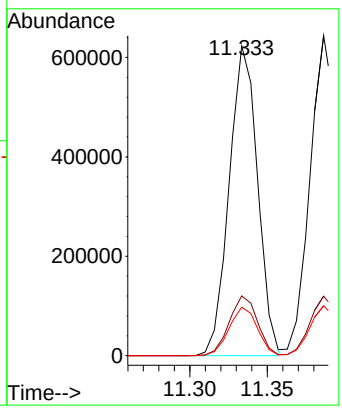


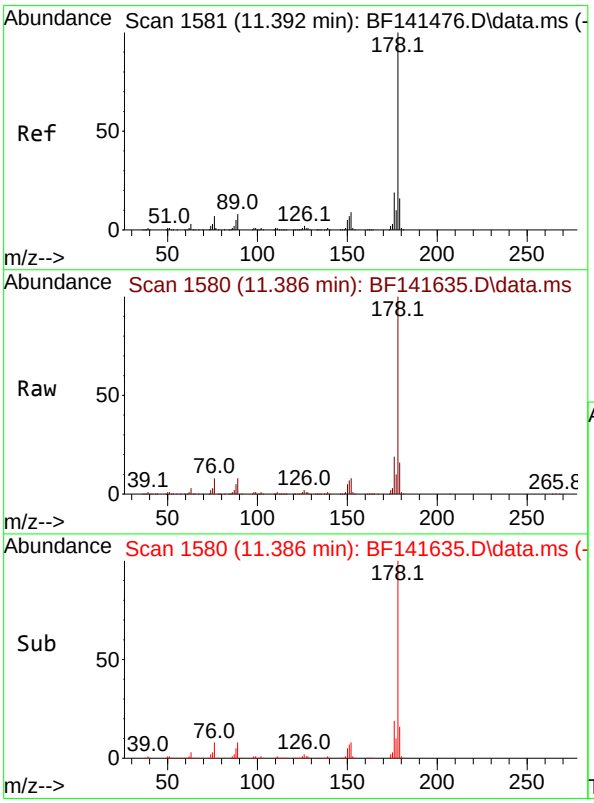
#71
Phenanthrene
Concen: 46.197 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:178 Resp: 794719

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.7	12.4	18.6

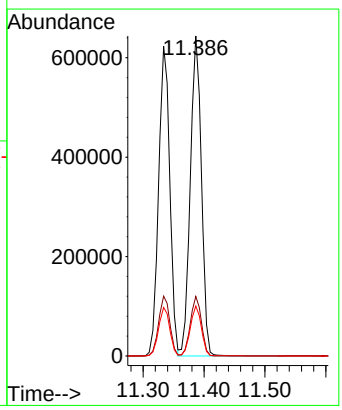


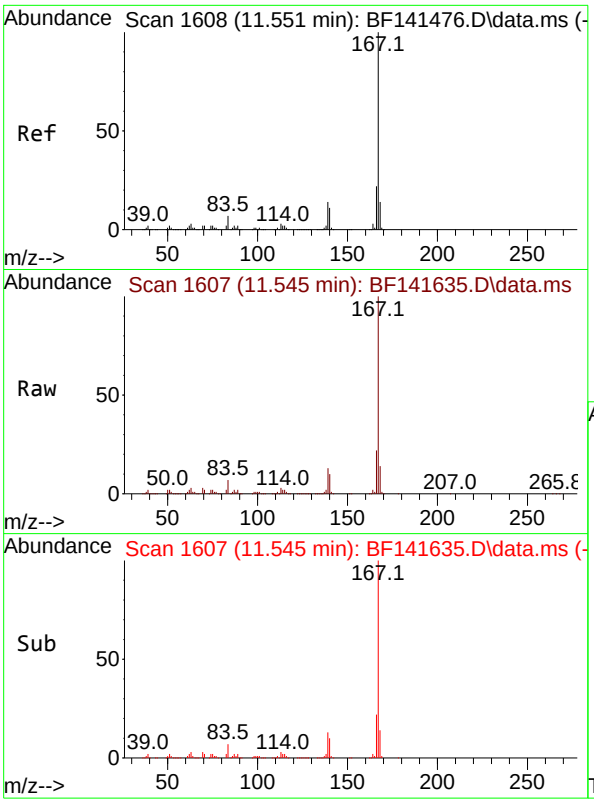


#72
Anthracene
Concen: 47.203 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:178 Resp: 816284

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.6	12.4	18.6



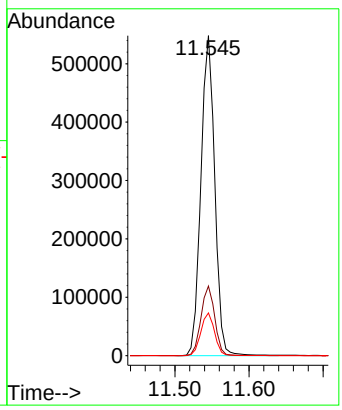


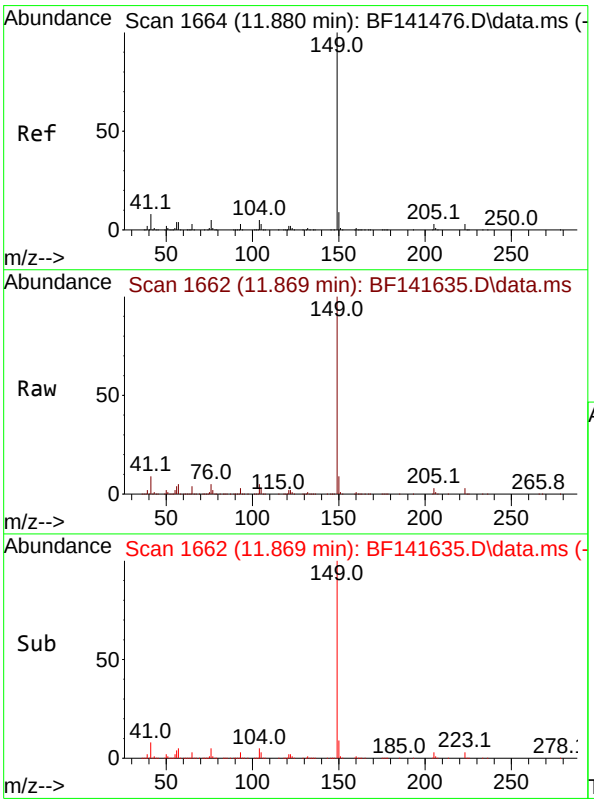
#73
Carbazole
Concen: 45.658 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:167 Resp: 710438

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.3	10.9	16.3

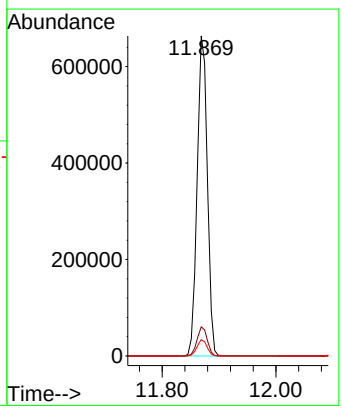


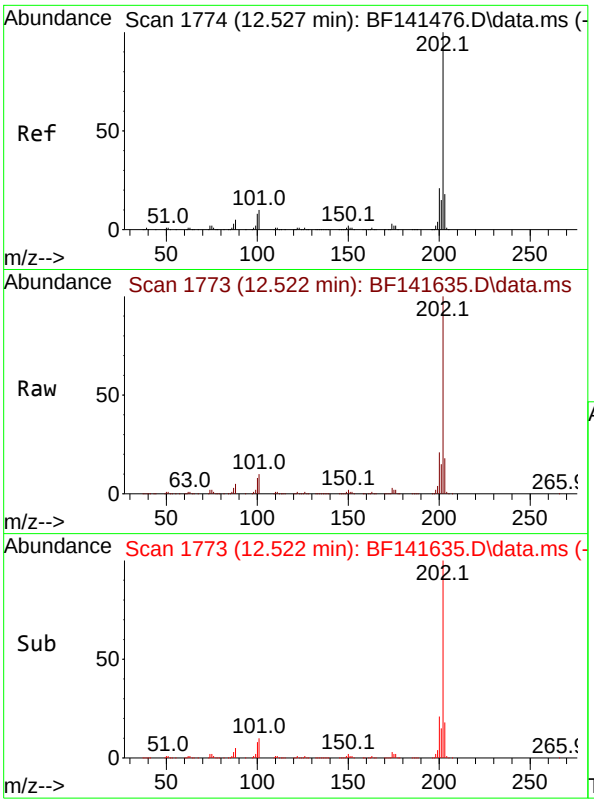


#74
Di-n-butylphthalate
Concen: 46.320 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 832214

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.1	4.2	6.2



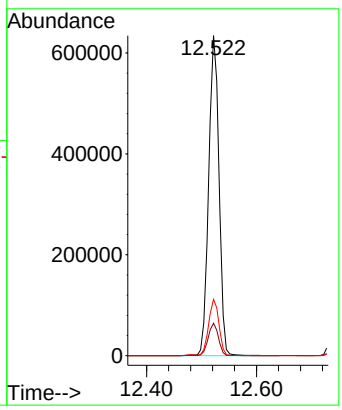


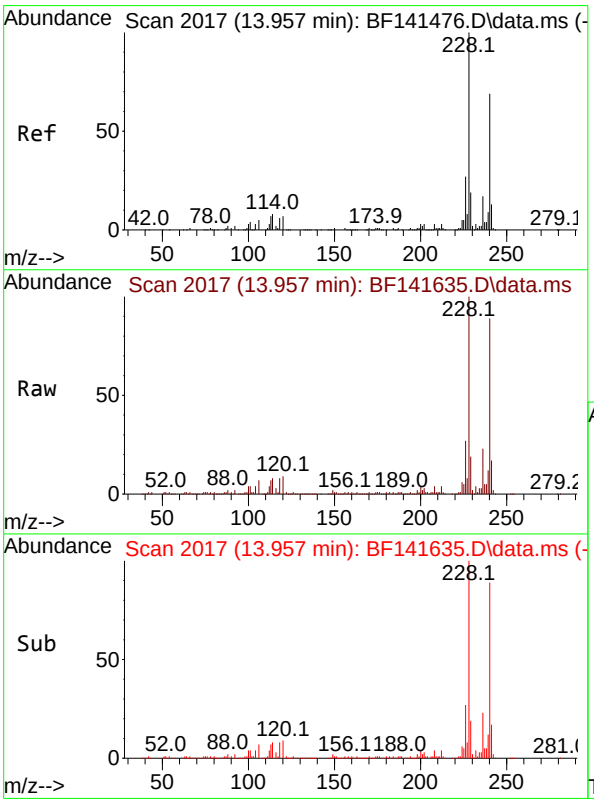
#75
Fluoranthene
Concen: 45.302 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:202 Resp: 826241

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.2
203	17.6	0.0	37.6

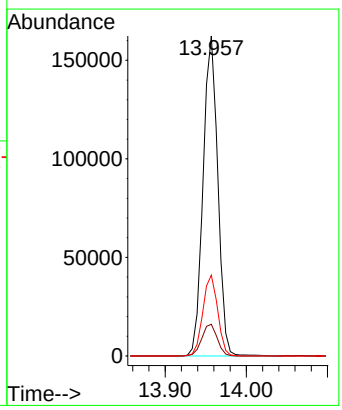


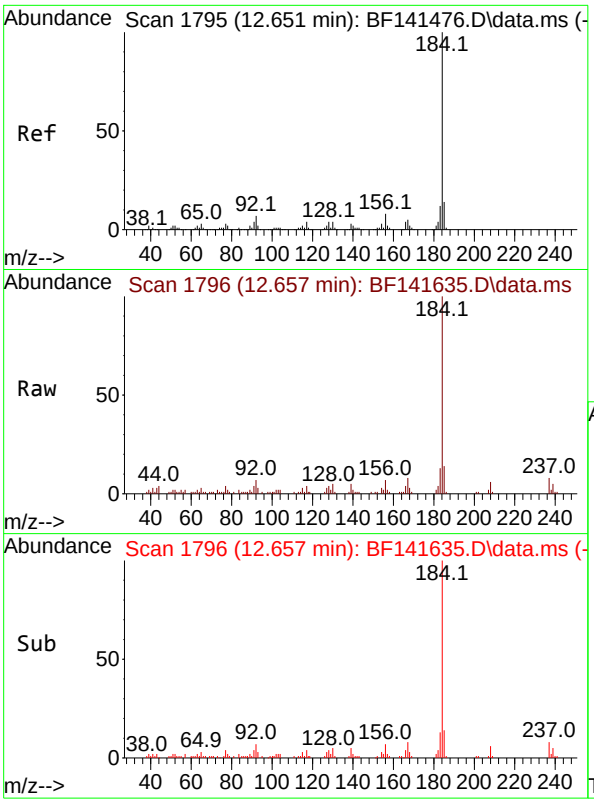


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:240 Resp: 204031

Ion	Ratio	Lower	Upper
240	100		
120	9.9	8.0	12.0
236	25.2	19.8	29.8



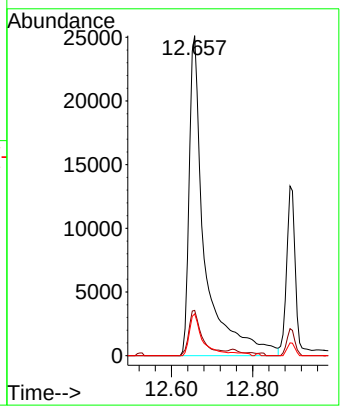


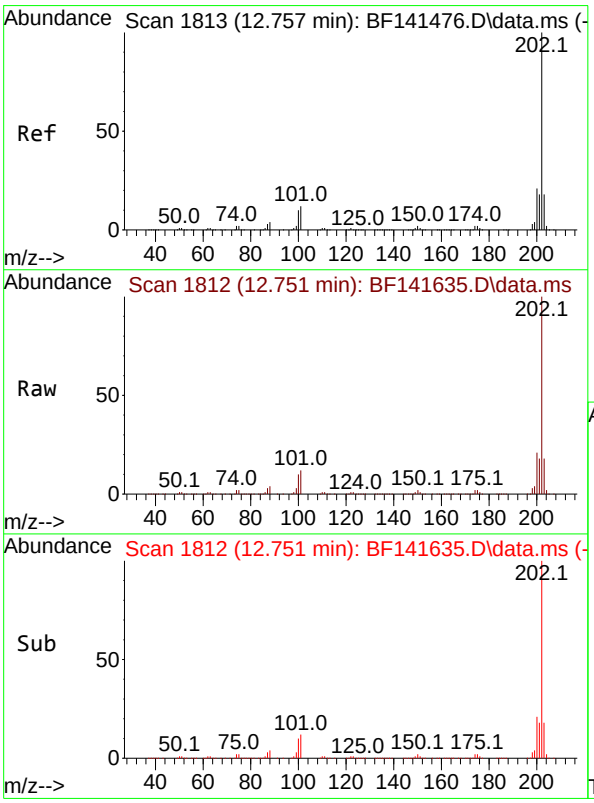
#77
Benzidine
Concen: 14.866 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:184 Resp: 66894

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	13.1	9.3	13.9

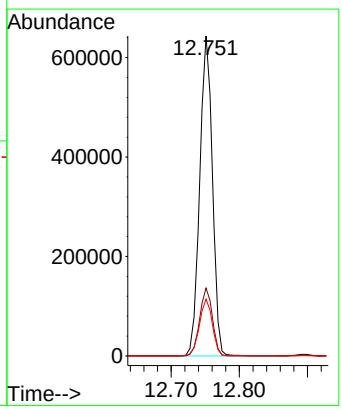


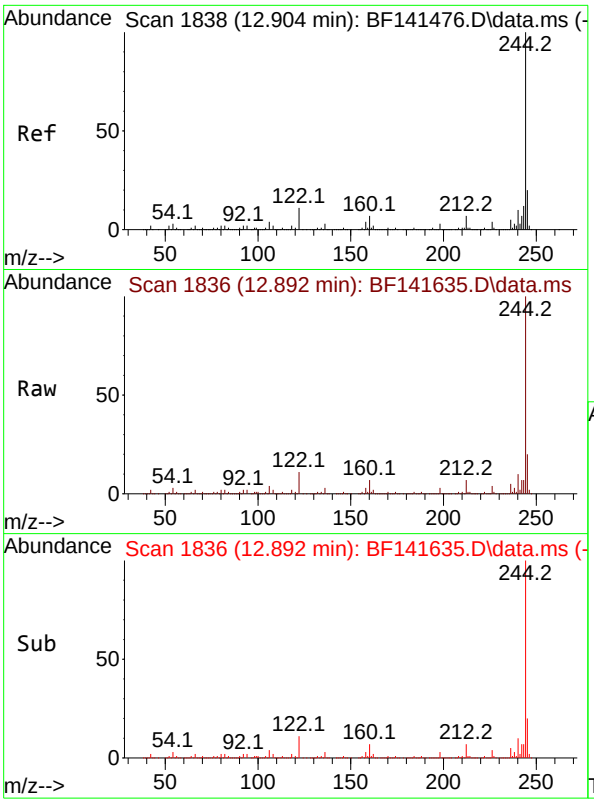


#78
Pyrene
Concen: 47.874 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:202 Resp: 831505

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5



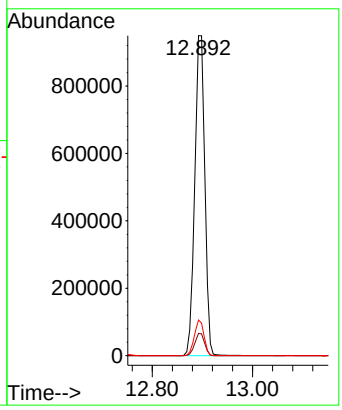


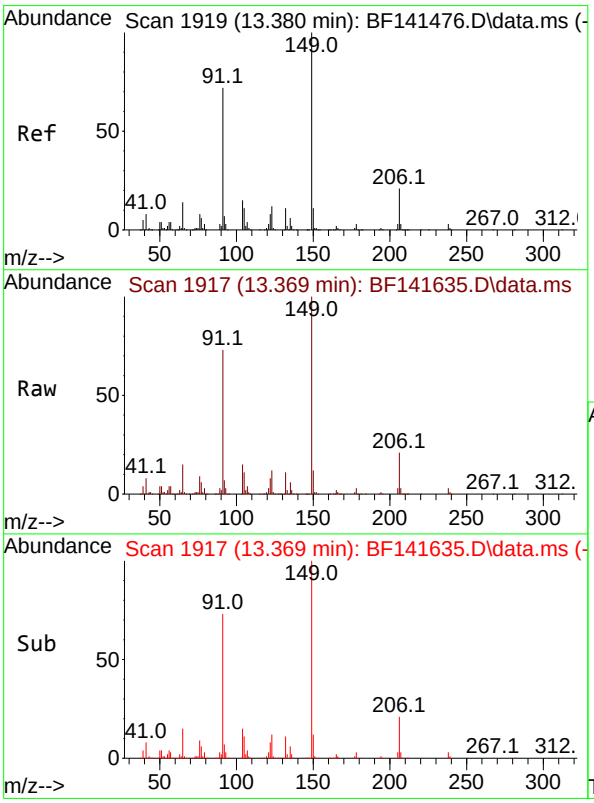
#79
Terphenyl-d14
Concen: 109.018 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:244 Resp: 1317587

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	11.1	8.4	12.6

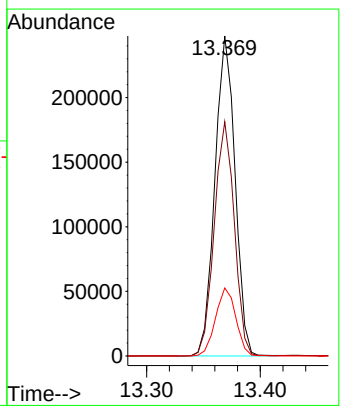


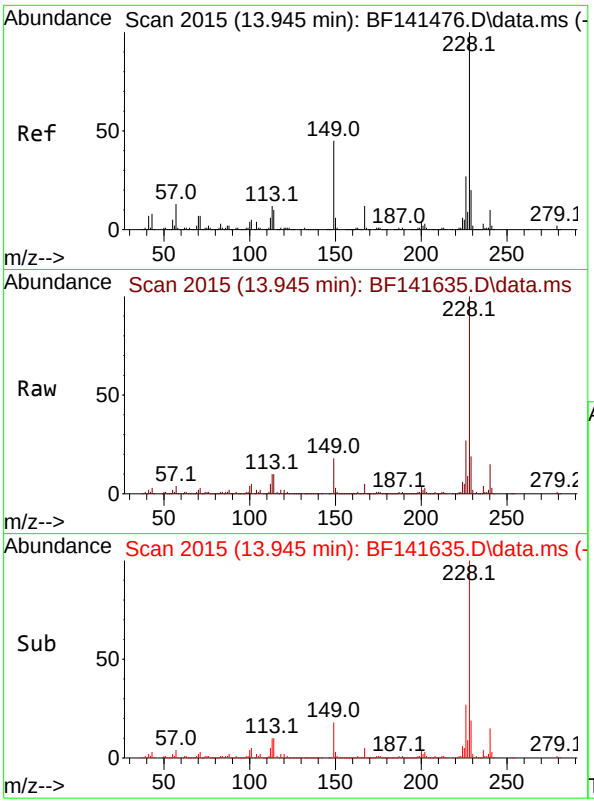


#80
Butylbenzylphthalate
Concen: 50.774 ng
RT: 13.369 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 305455

Ion	Ratio	Lower	Upper
149	100		
91	73.2	57.8	86.8
206	21.3	16.7	25.1



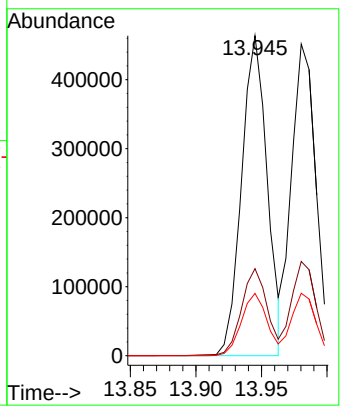


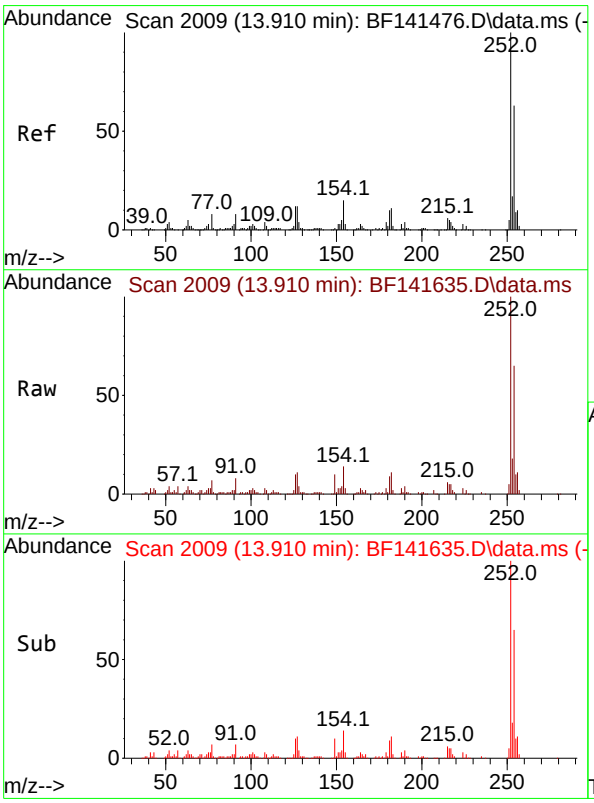
#81
Benzo(a)anthracene
Concen: 46.434 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:228 Resp: 629764

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	19.4	15.8	23.6

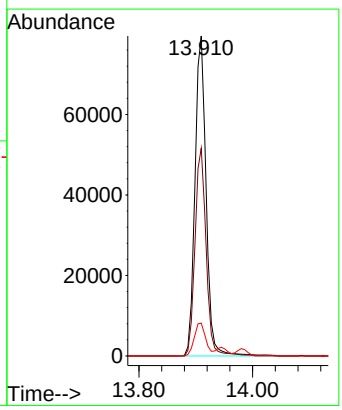


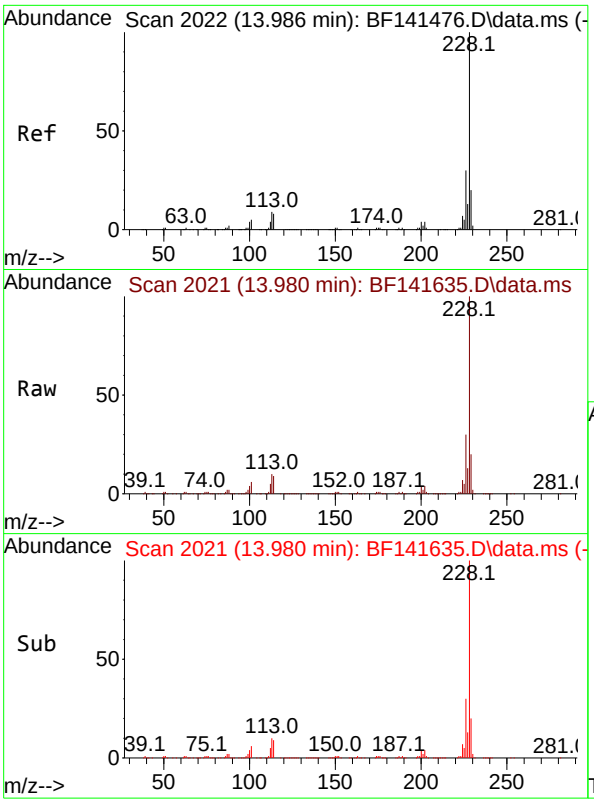


#82
3,3'-Dichlorobenzidine
Concen: 28.014 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 108836

Ion	Ratio	Lower	Upper
252	100		
254	64.9	50.6	76.0
126	10.3	9.3	13.9



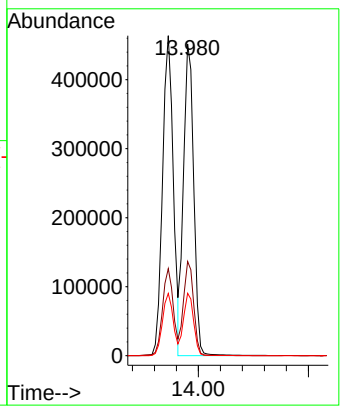


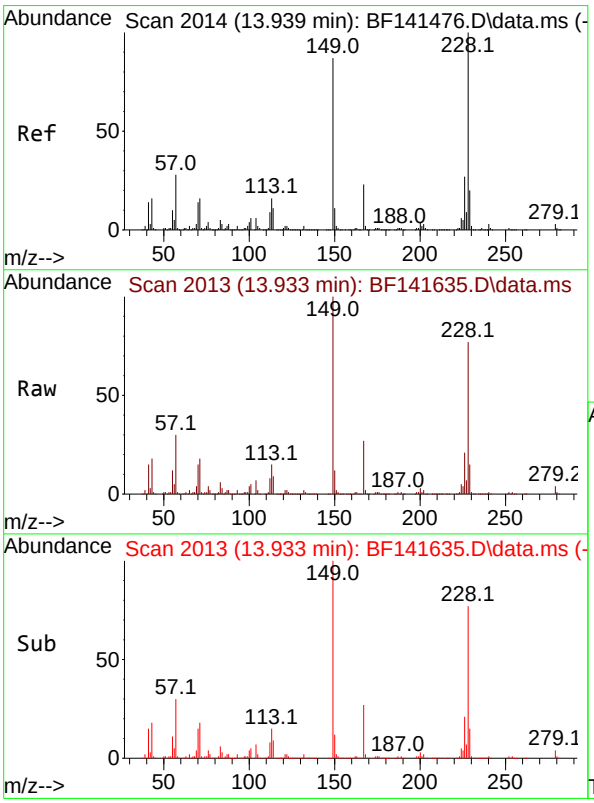
#83
Chrysene
Concen: 46.719 ng
RT: 13.980 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:228 Resp: 585065

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	20.0	15.7	23.5

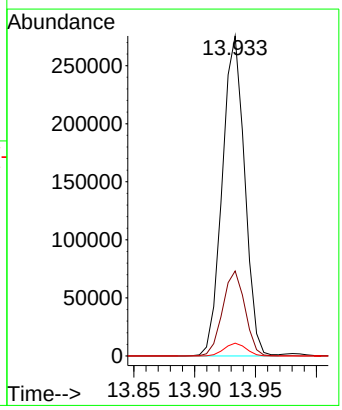


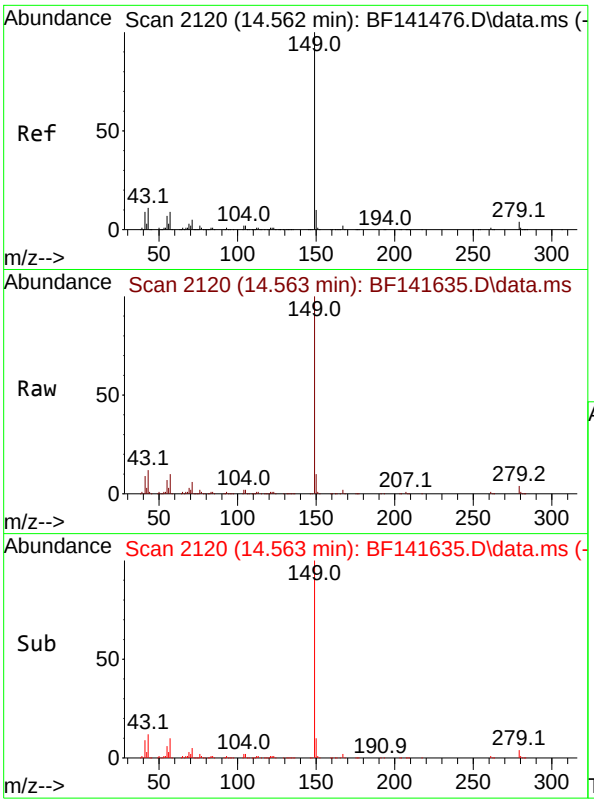


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.064 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:149 Resp: 353256

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.4	32.0
279	4.0	3.1	4.7



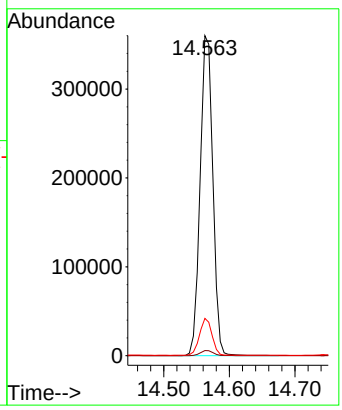


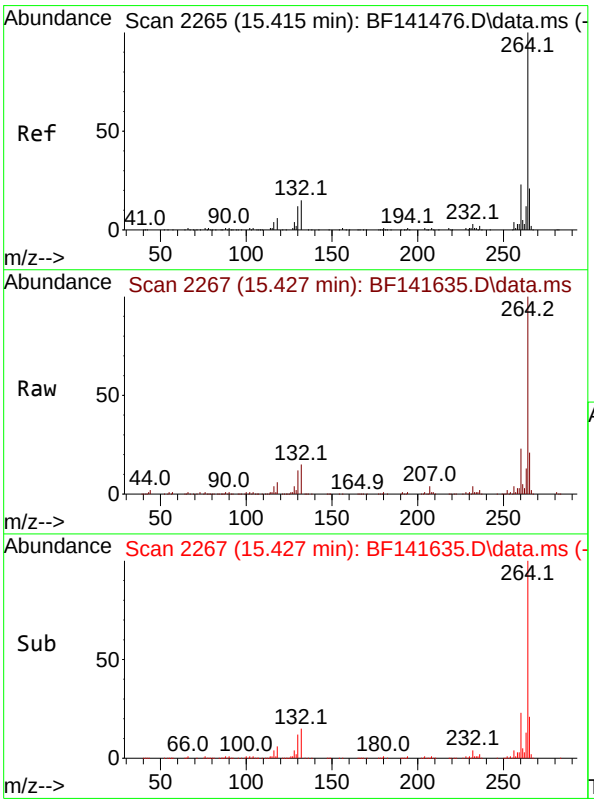
#85
Di-n-octyl phthalate
Concen: 50.295 ng
RT: 14.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:149 Resp: 486829

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	11.3	9.5	14.3

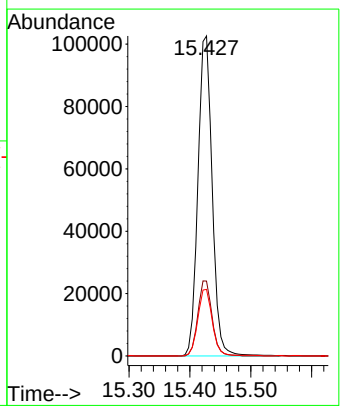


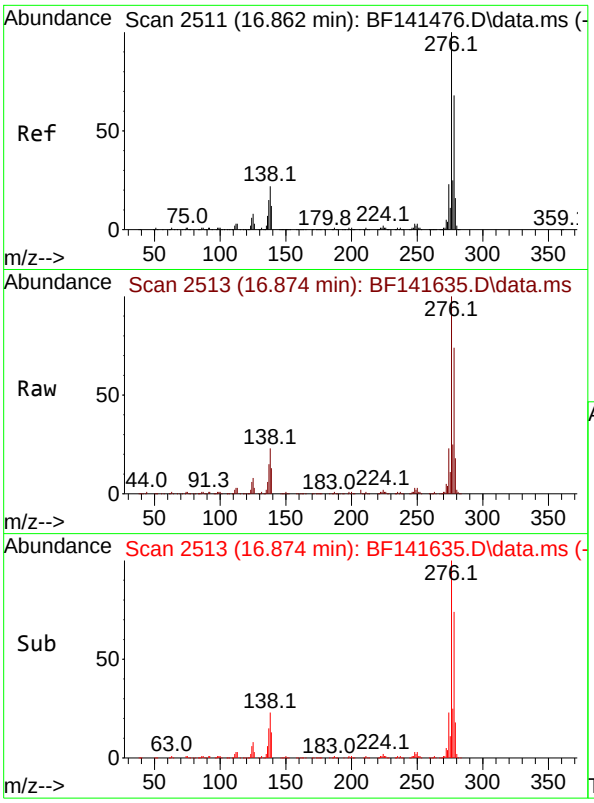


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. 0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:264 Resp: 166342

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	28.0
265	20.8	17.0	25.4



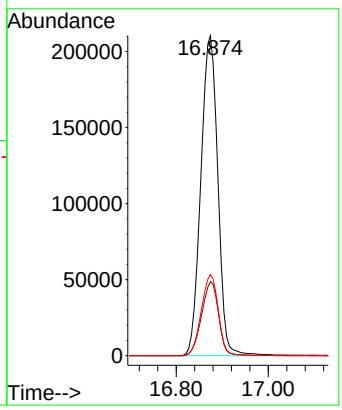


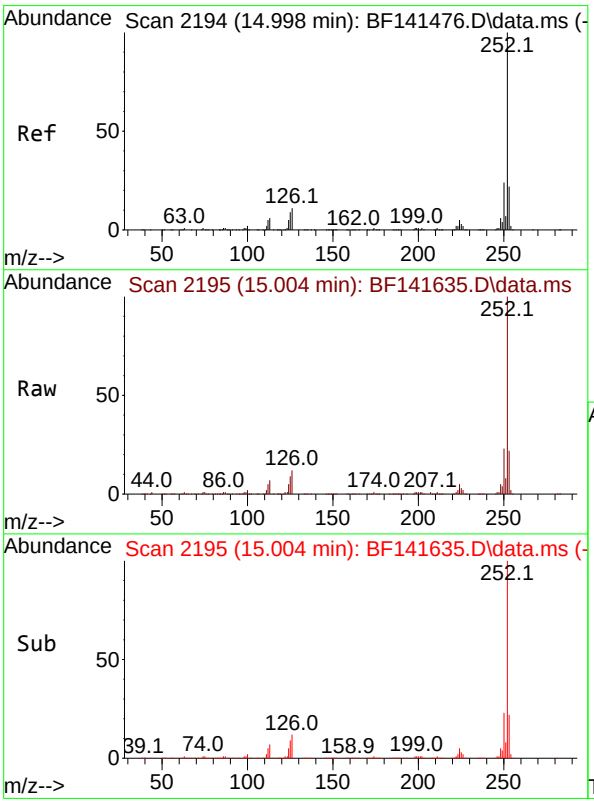
#87
Indeno(1,2,3-cd)pyrene
Concen: 52.713 ng
RT: 16.874 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:276 Resp: 541787

Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.0	27.0
277	25.2	20.4	30.6

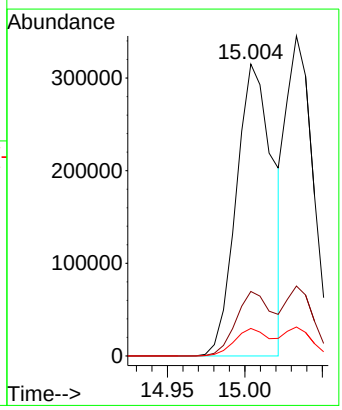


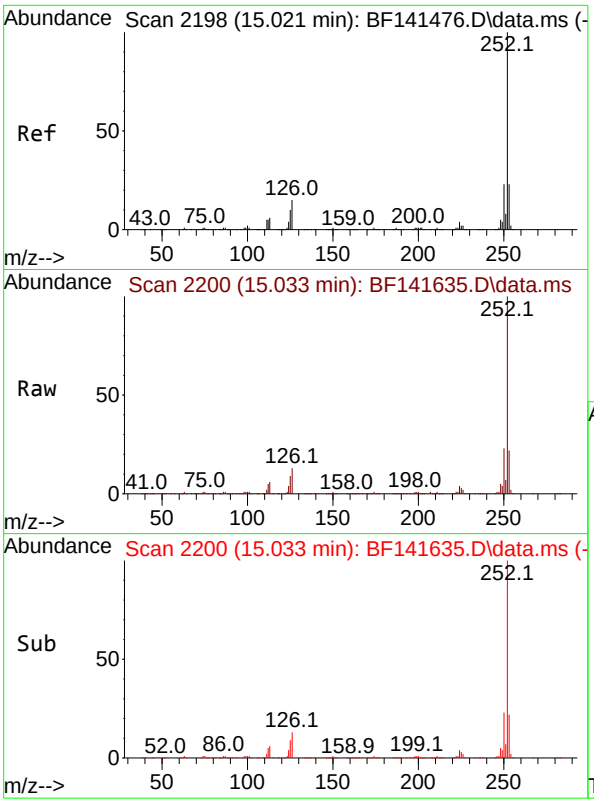


#88
Benzo(b)fluoranthene
Concen: 46.374 ng
RT: 15.004 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 517956

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.5	7.0	10.6



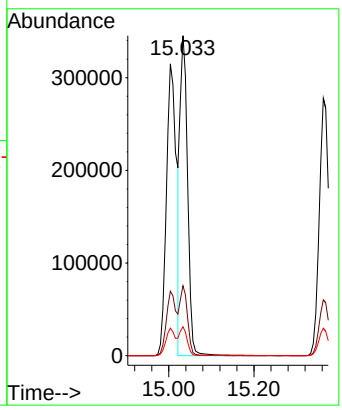


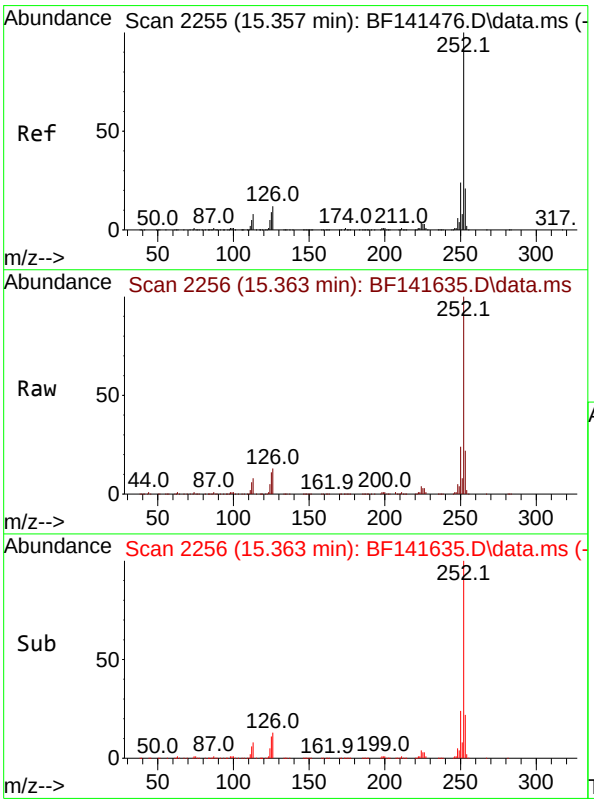
#89
Benzo(k)fluoranthene
Concen: 44.654 ng
RT: 15.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:252 Resp: 425886

Ion	Ratio	Lower	Upper
252	100		
253	21.9	18.0	27.0
125	9.1	7.4	11.0

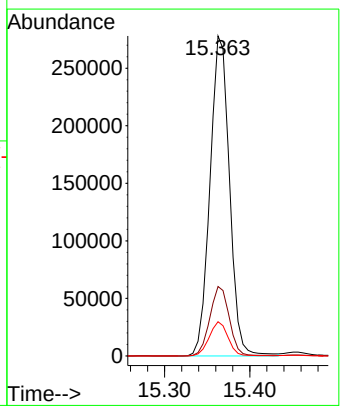


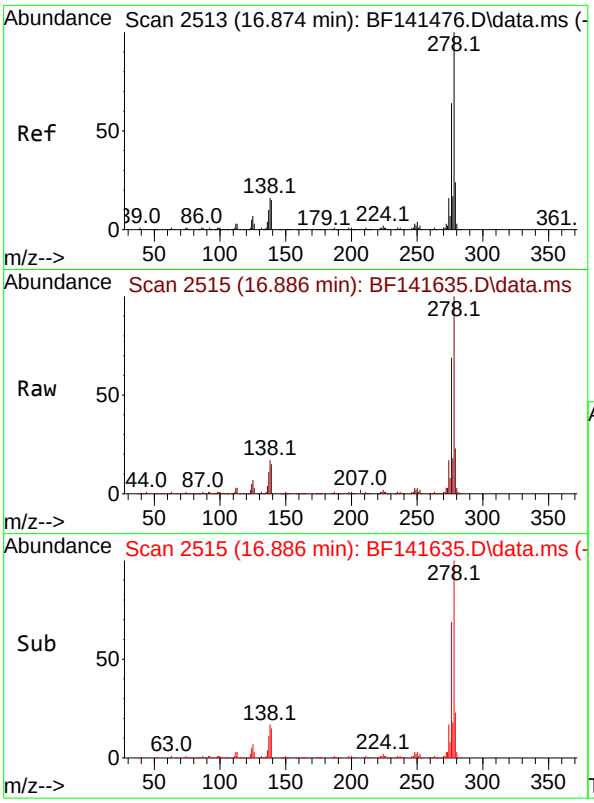


#90
Benzo(a)pyrene
Concen: 48.920 ng
RT: 15.363 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:252 Resp: 442121

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	10.7	7.4	11.2



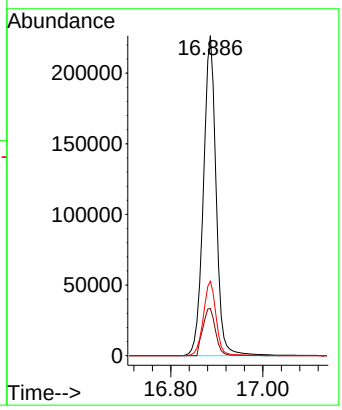


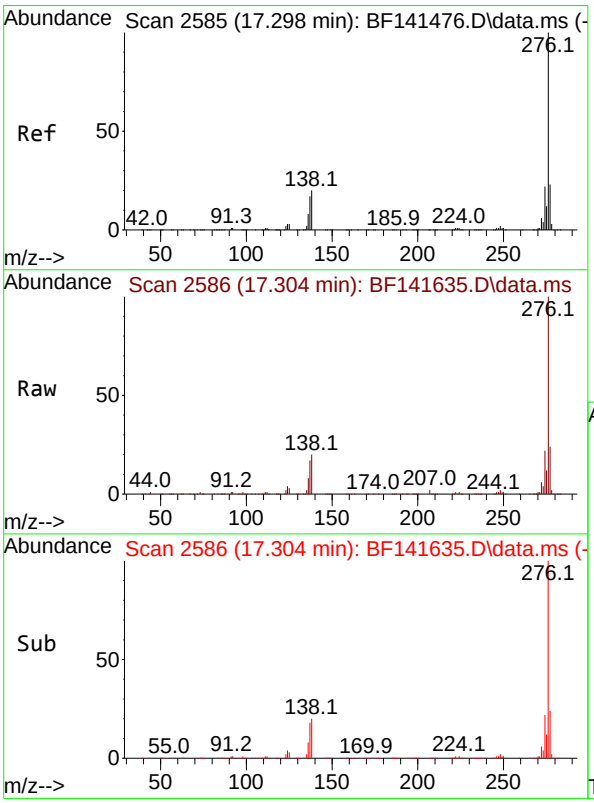
#91
Dibenzo(a,h)anthracene
Concen: 52.384 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMS

Tgt Ion:278 Resp: 436268

Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.8	17.6
279	23.2	19.1	28.7

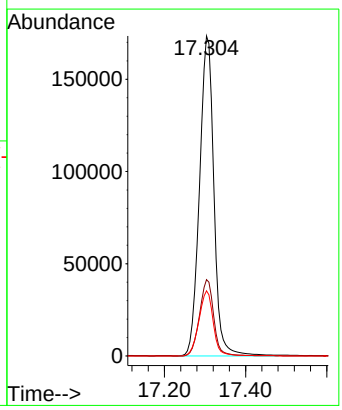




#92
Benzo(g,h,i)perylene
Concen: 49.099 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.012 min
Lab File: BF141635.D
Acq: 14 Feb 2025 13:11

Tgt Ion:276 Resp: 427909

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.6	28.0
138	20.3	15.9	23.9



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141636.D
Acq On : 14 Feb 2025 13:37
Operator : RC/JU
Sample : Q1356-04MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Quant Time: Feb 14 14:03:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	84972	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	344114	20.000	ng		0.00
39) Acenaphthene-d10	9.822	164	188709	20.000	ng		-0.01
64) Phenanthrene-d10	11.310	188	320276	20.000	ng		0.00
76) Chrysene-d12	13.957	240	187767	20.000	ng		0.00
86) Perylene-d12	15.433	264	159211	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	720859	132.999	ng		0.00
7) Phenol-d6	6.434	99	823753	120.248	ng		0.00
23) Nitrobenzene-d5	7.351	82	650153	98.545	ng		-0.01
42) 2,4,6-Tribromophenol	10.616	330	268857	141.827	ng		-0.01
45) 2-Fluorobiphenyl	9.145	172	1163900	95.022	ng		0.00
79) Terphenyl-d14	12.898	244	1297134	116.623	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.546	88	94510	43.325	ng		99
3) Pyridine	3.275	79	129916	25.027	ng		95
4) n-Nitrosodimethylamine	3.228	42	141641	41.208	ng		94
6) Aniline	6.451	93	135885	21.146	ng	#	55
8) 2-Chlorophenol	6.575	128	269765	46.062	ng		99
9) Benzaldehyde	6.334	77	96642	26.547	ng		98
10) Phenol	6.446	94	272696	38.246	ng		88
11) bis(2-Chloroethyl)ether	6.522	93	249365	46.563	ng		100
12) 1,3-Dichlorobenzene	6.728	146	274383	44.378	ng		97
13) 1,4-Dichlorobenzene	6.804	146	281210	44.516	ng		99
14) 1,2-Dichlorobenzene	6.957	146	270371	46.115	ng		98
15) Benzyl Alcohol	6.934	79	221414	42.148	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.063	45	401252	43.769	ng		78
17) 2-Methylphenol	7.051	107	203996	44.511	ng		96
18) Hexachloroethane	7.298	117	105061	44.938	ng		96
19) n-Nitroso-di-n-propyla...	7.204	70	190325	46.447	ng		96
20) 3+4-Methylphenols	7.204	107	261327	44.867	ng		98
22) Acetophenone	7.198	105	413898	48.352	ng		95
24) Nitrobenzene	7.375	77	288642	44.866	ng		99
25) Isophorone	7.610	82	504925	47.999	ng		99
26) 2-Nitrophenol	7.687	139	143208	44.742	ng		96
27) 2,4-Dimethylphenol	7.728	122	217464	58.159	ng		98
28) bis(2-Chloroethoxy)met...	7.822	93	308243	45.728	ng		100
29) 2,4-Dichlorophenol	7.934	162	229425	45.412	ng		100
30) 1,2,4-Trichlorobenzene	8.010	180	242498	44.078	ng		99
31) Naphthalene	8.092	128	778564	43.465	ng		100
32) Benzoic acid	7.863	122	132353	34.078	ng		97
33) 4-Chloroaniline	8.151	127	47445	7.586	ng		97
34) Hexachlorobutadiene	8.204	225	148293	44.899	ng		99
35) Caprolactam	8.557	113	19867	12.916	ng		90
36) 4-Chloro-3-methylphenol	8.640	107	246482	44.044	ng		100
37) 2-Methylnaphthalene	8.781	142	498009	42.725	ng		99
38) 1-Methylnaphthalene	8.881	142	484567	42.922	ng		98
40) 1,2,4,5-Tetrachloroben...	8.951	216	267826	49.056	ng		98
41) Hexachlorocyclopentadiene	8.934	237	267751	147.448	ng		98
43) 2,4,6-Trichlorophenol	9.063	196	161389	45.737	ng		99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141636.D
Acq On : 14 Feb 2025 13:37
Operator : RC/JU
Sample : Q1356-04MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Quant Time: Feb 14 14:03:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	169569	44.341	ng	98
46) 1,1'-Biphenyl	9.245	154	720778	49.266	ng	99
47) 2-Chloronaphthalene	9.269	162	492631	45.535	ng	99
48) 2-Nitroaniline	9.369	65	159276	43.869	ng	99
49) Acenaphthylene	9.687	152	757692	47.086	ng	99
50) Dimethylphthalate	9.551	163	587334	45.846	ng	100
51) 2,6-Dinitrotoluene	9.616	165	129736	46.325	ng	96
52) Acenaphthene	9.857	154	477895	44.175	ng	100
53) 3-Nitroaniline	9.781	138	52673	17.475	ng	97
54) 2,4-Dinitrophenol	9.898	184	161892	97.264	ng	92
55) Dibenzofuran	10.028	168	684122	43.083	ng	100
56) 4-Nitrophenol	9.963	139	173490	77.535	ng	97
57) 2,4-Dinitrotoluene	10.022	165	175435	47.056	ng	98
58) Fluorene	10.375	166	546127	44.481	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.151	232	143768	43.667	ng	97
60) Diethylphthalate	10.245	149	557799	44.254	ng	99
61) 4-Chlorophenyl-phenyle...	10.363	204	262210	44.392	ng	99
62) 4-Nitroaniline	10.398	138	123974	40.505	ng	97
63) Azobenzene	10.522	77	536984	42.854	ng	98
65) 4,6-Dinitro-2-methylph...	10.428	198	102555	46.096	ng	97
66) n-Nitrosodiphenylamine	10.486	169	472341	46.072	ng	99
67) 4-Bromophenyl-phenylether	10.851	248	162515	45.402	ng	94
68) Hexachlorobenzene	10.922	284	174584	47.365	ng	99
69) Atrazine	11.016	200	165172	53.702	ng	98
70) Pentachlorophenol	11.122	266	188251	79.874	ng	99
71) Phenanthrene	11.333	178	817975	46.397	ng	100
72) Anthracene	11.386	178	835984	47.172	ng	100
73) Carbazole	11.545	167	727521	45.623	ng	100
74) Di-n-butylphthalate	11.869	149	839845	45.613	ng	100
75) Fluoranthene	12.522	202	820316	43.888	ng	100
77) Benzidine	12.657	184	32906	7.946	ng	98
78) Pyrene	12.751	202	831249	52.005	ng	99
80) Butylbenzylphthalate	13.369	149	291462	52.645	ng	100
81) Benzo(a)anthracene	13.945	228	603503	48.352	ng	100
82) 3,3'-Dichlorobenzidine	13.910	252	100379	28.075	ng	99
83) Chrysene	13.986	228	525534	45.600	ng	100
84) Bis(2-ethylhexyl)phtha...	13.933	149	325174	52.076	ng	100
85) Di-n-octyl phthalate	14.574	149	450683	50.594	ng	98
87) Indeno(1,2,3-cd)pyrene	16.886	276	549103	55.817	ng	99
88) Benzo(b)fluoranthene	15.016	252	456328	42.686	ng	99
89) Benzo(k)fluoranthene	15.045	252	431507	47.270	ng	98
90) Benzo(a)pyrene	15.374	252	423546	48.964	ng	99
91) Dibenzo(a,h)anthracene	16.898	278	445100	55.839	ng	99
92) Benzo(g,h,i)perylene	17.315	276	434697	52.112	ng	99

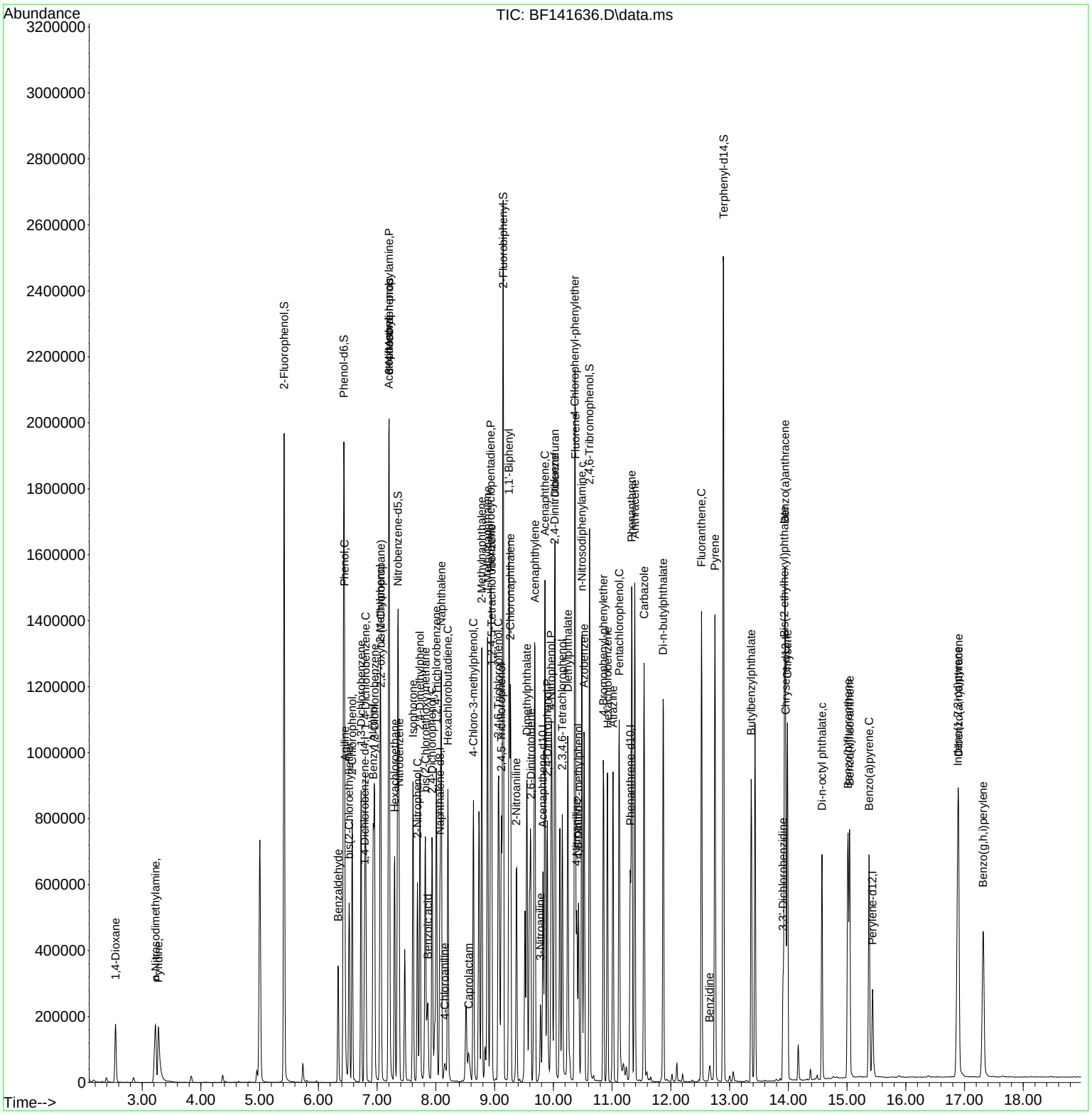
(#) = qualifier out of range (m) = manual integration (+) = signals summed

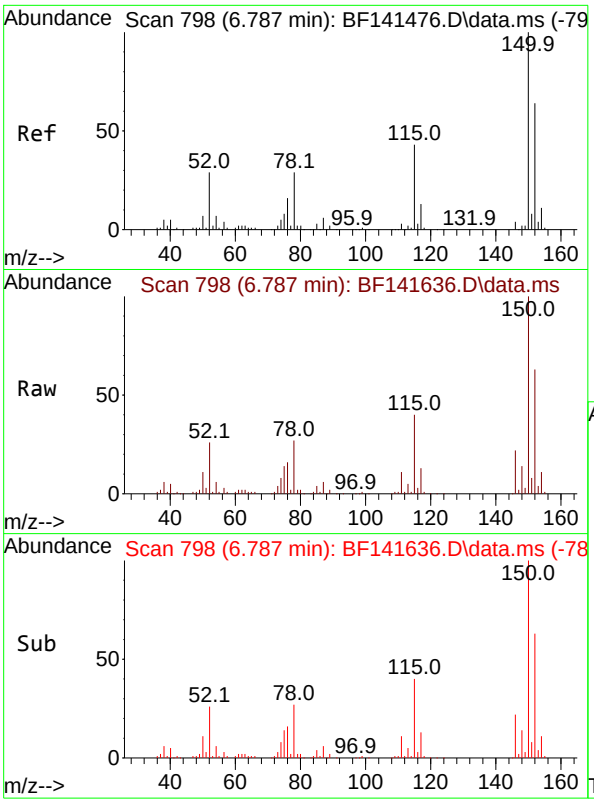
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF021425\
Data File : BF141636.D
Acq On : 14 Feb 2025 13:37
Operator : RC/JU
Sample : Q1356-04MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Quant Time: Feb 14 14:03:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF020625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Feb 06 16:58:59 2025
Response via : Initial Calibration



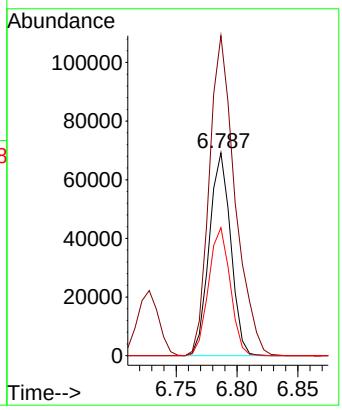


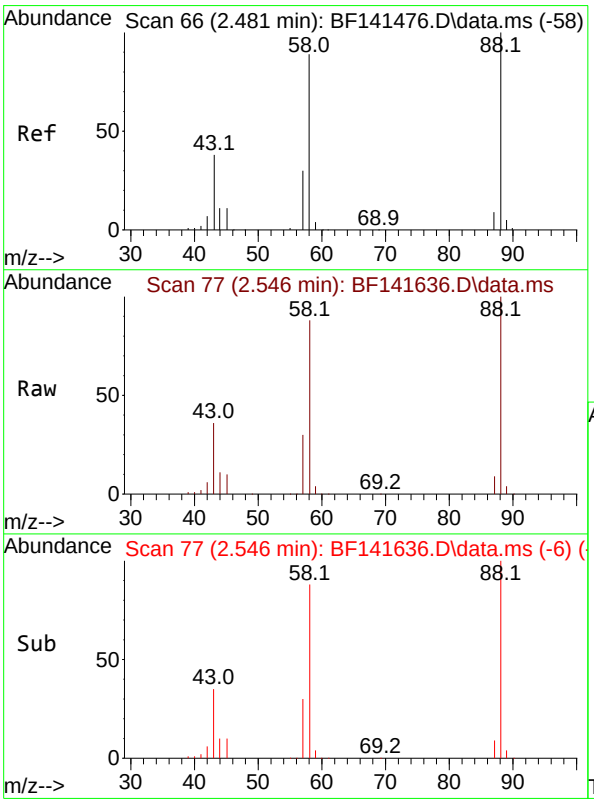
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:152 Resp: 84972

Ion	Ratio	Lower	Upper
152	100		
150	157.7	125.0	187.4
115	63.0	53.6	80.4

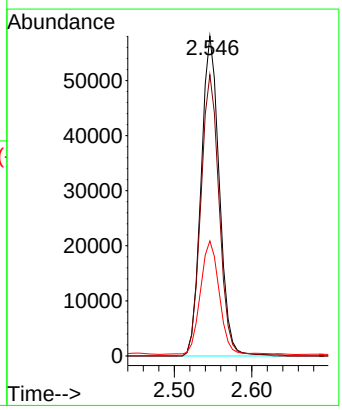


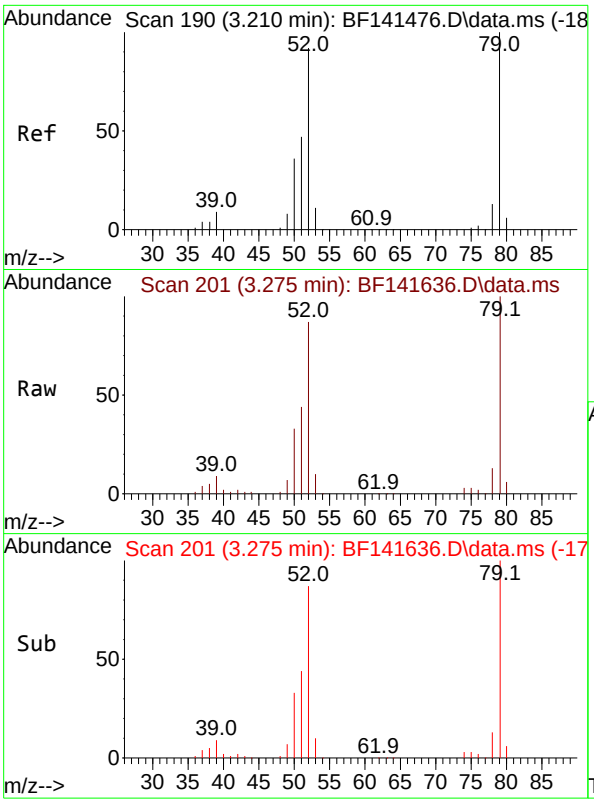


#2
1,4-Dioxane
Concen: 43.325 ng
RT: 2.546 min Scan# 77
Delta R.T. 0.065 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 88 Resp: 94510

Ion	Ratio	Lower	Upper
88	100		
58	88.7	71.1	106.7
43	36.5	30.6	46.0



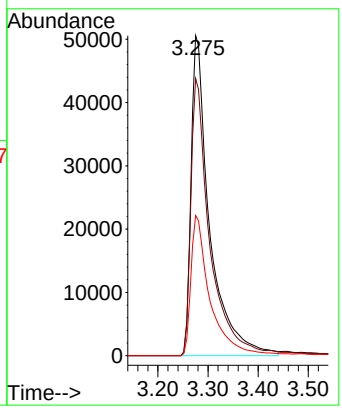


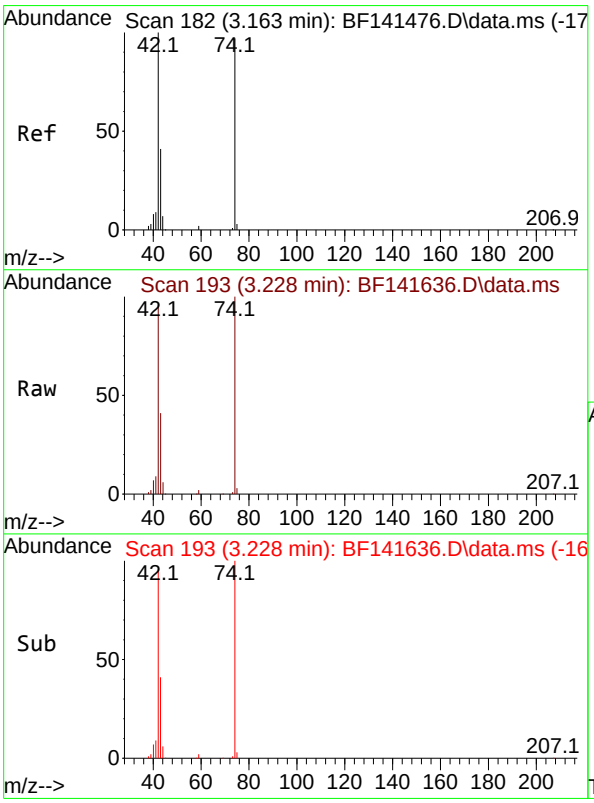
#3
Pyridine
Concen: 25.027 ng
RT: 3.275 min Scan# 2
Delta R.T. 0.059 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 79 Resp: 129916

Ion	Ratio	Lower	Upper
79	100		
52	86.6	73.7	110.5
51	43.8	37.5	56.3

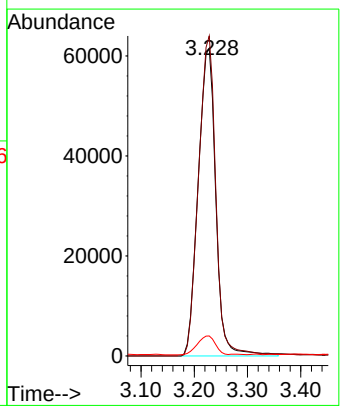


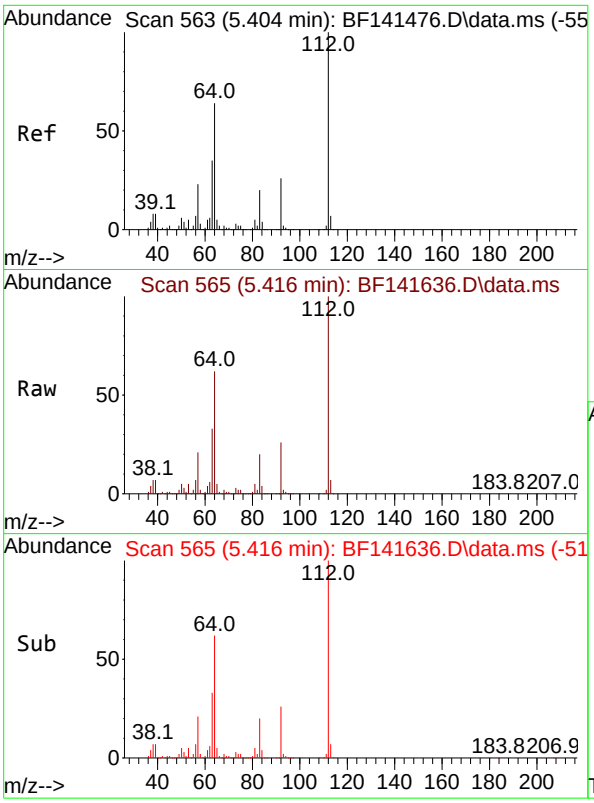


#4
n-Nitrosodimethylamine
Concen: 41.208 ng
RT: 3.228 min Scan# 193
Delta R.T. 0.041 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 42 Resp: 141641

Ion	Ratio	Lower	Upper
42	100		
74	104.0	78.0	117.0
44	6.5	5.4	8.2



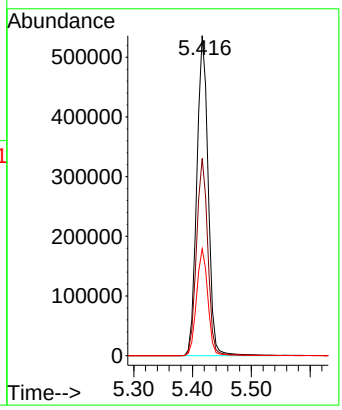


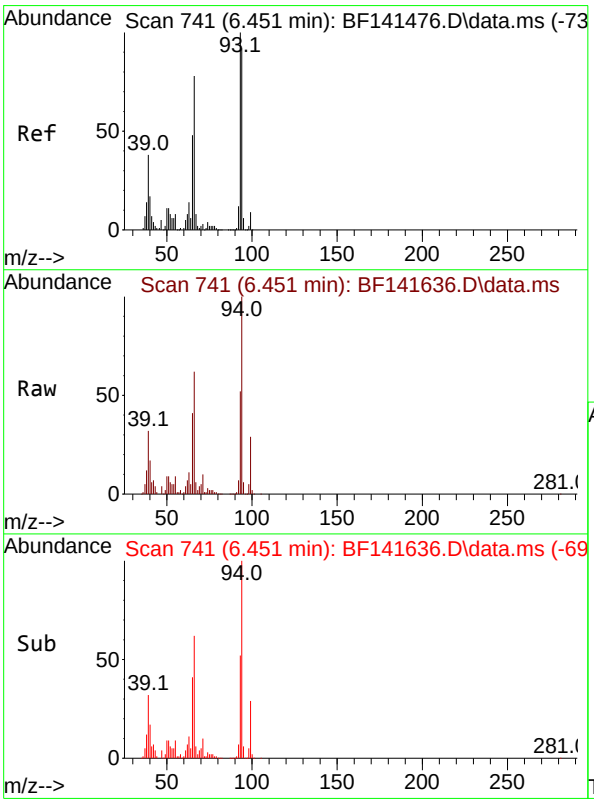
#5
2-Fluorophenol
Concen: 132.999 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:112 Resp: 720859

Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.1	76.7
63	33.4	28.4	42.6

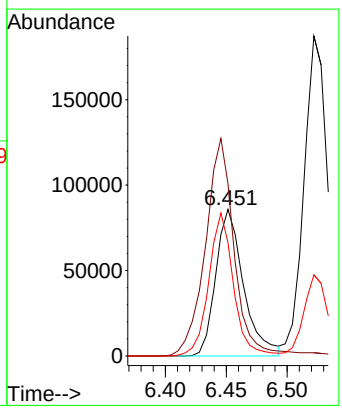


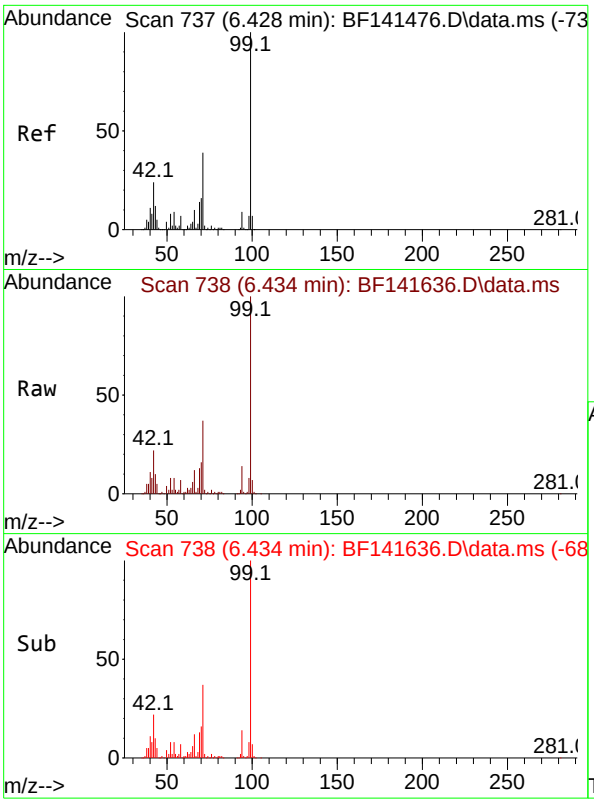


#6
Aniline
Concen: 21.146 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 93 Resp: 135885

Ion	Ratio	Lower	Upper
93	100		
66	117.7	62.6	94.0#
65	77.4	38.3	57.5#



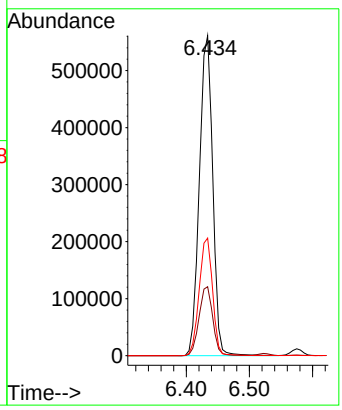


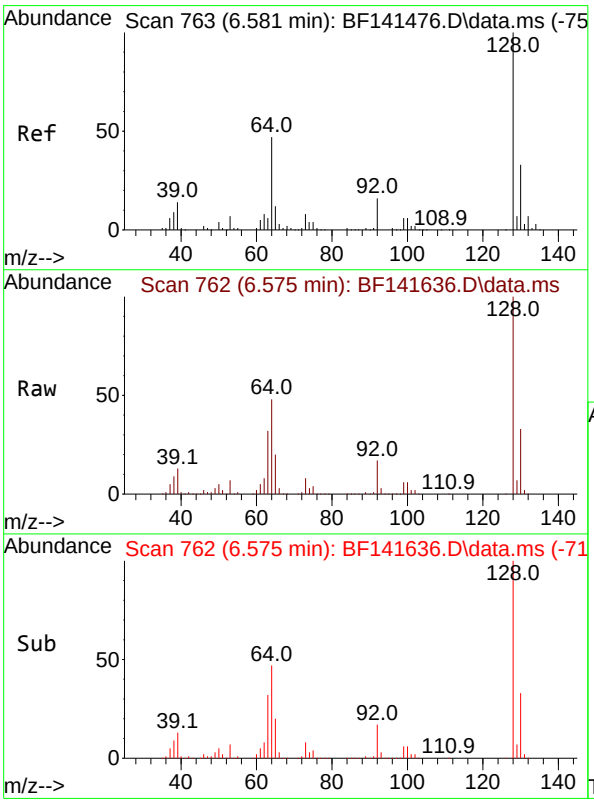
#7
Phenol-d6
Concen: 120.248 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 99 Resp: 823753

Ion	Ratio	Lower	Upper
99	100		
42	21.6	19.1	28.7
71	36.7	31.1	46.7

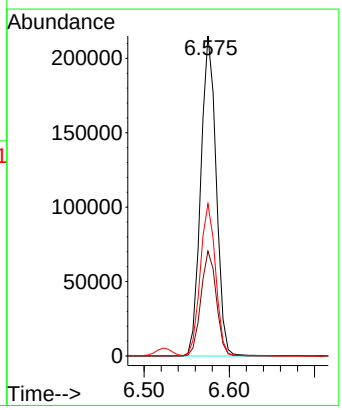


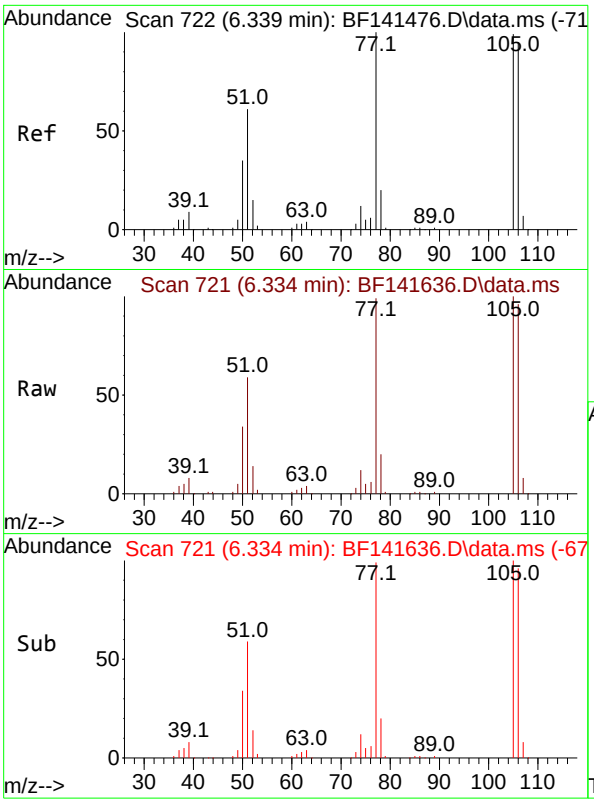


#8
2-Chlorophenol
Concen: 46.062 ng
RT: 6.575 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:128 Resp: 269765

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.7	52.7
64	47.5	28.3	68.3



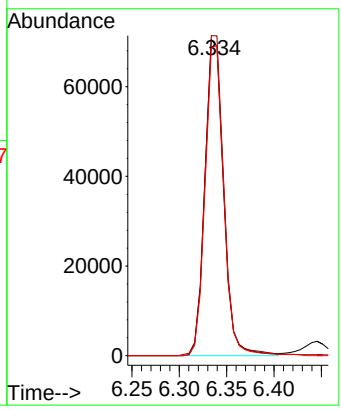


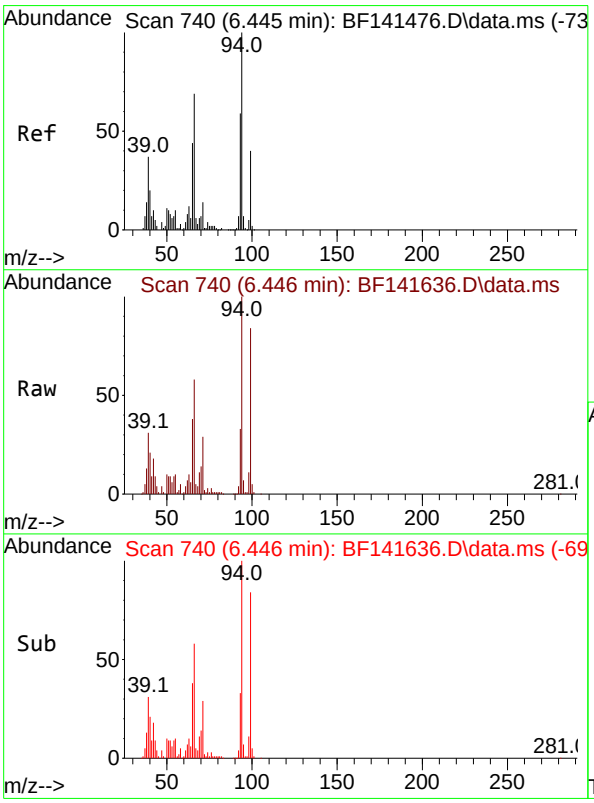
#9
Benzaldehyde
Concen: 26.547 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 77 Resp: 96642

Ion	Ratio	Lower	Upper
77	100		
105	101.3	79.4	119.4
106	97.3	75.1	115.1

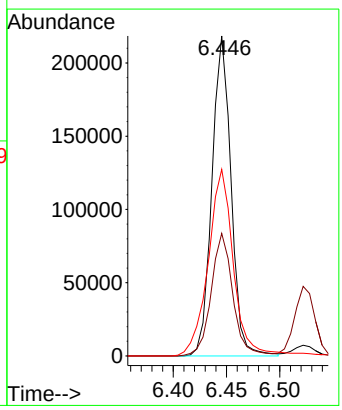


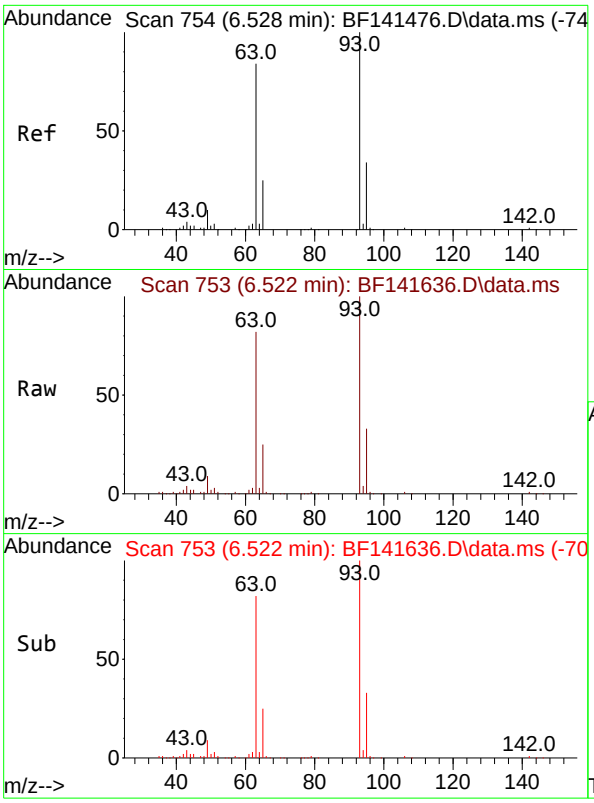


#10
Phenol
Concen: 38.246 ng
RT: 6.446 min Scan# 740
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 94 Resp: 272696

Ion	Ratio	Lower	Upper
94	100		
65	38.3	23.7	63.7
66	58.3	49.3	89.3



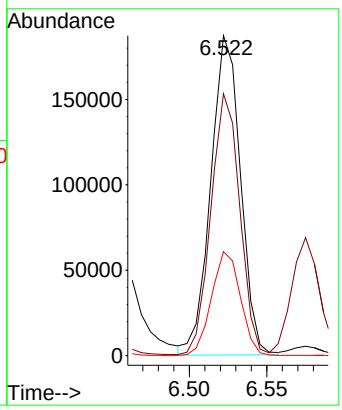


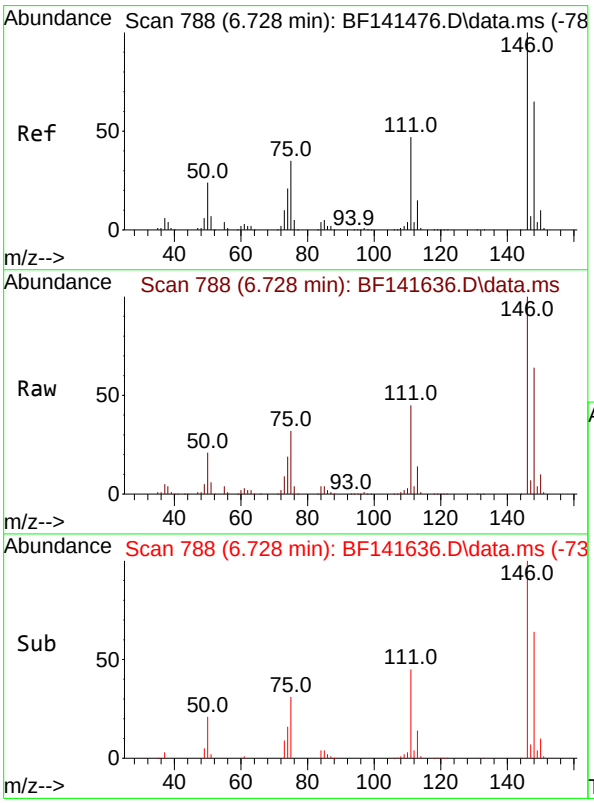
#11
bis(2-Chloroethyl)ether
Concen: 46.563 ng
RT: 6.522 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 93 Resp: 249365

Ion	Ratio	Lower	Upper
93	100		
63	81.9	62.0	102.0
95	32.5	12.6	52.6

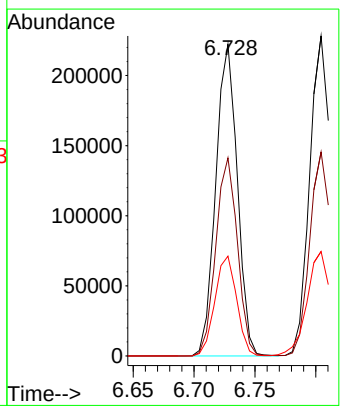


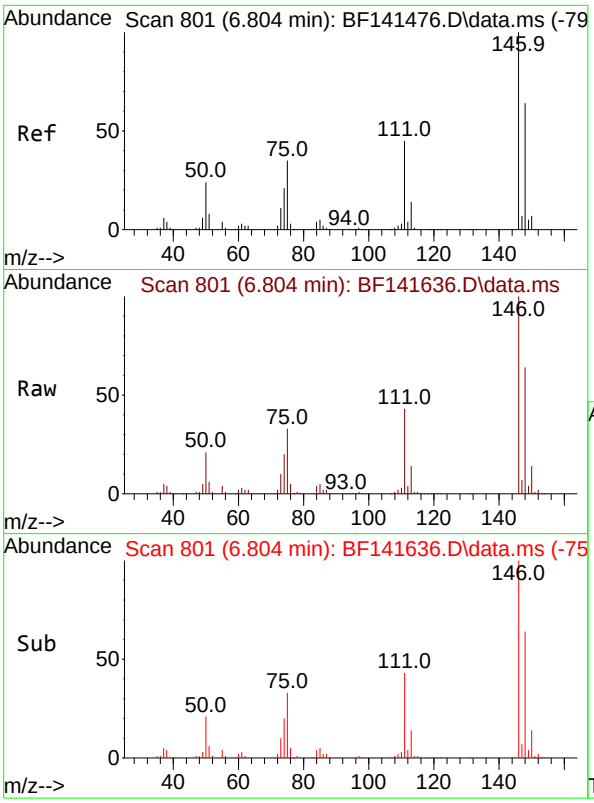


#12
1,3-Dichlorobenzene
Concen: 44.378 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:146 Resp: 274383

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.9	77.9
75	32.1	28.2	42.2



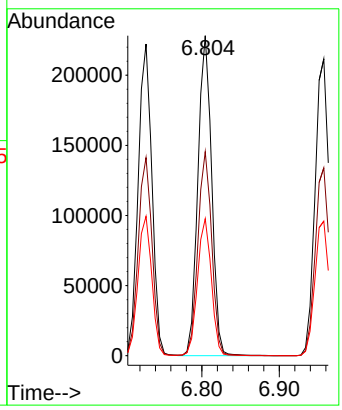


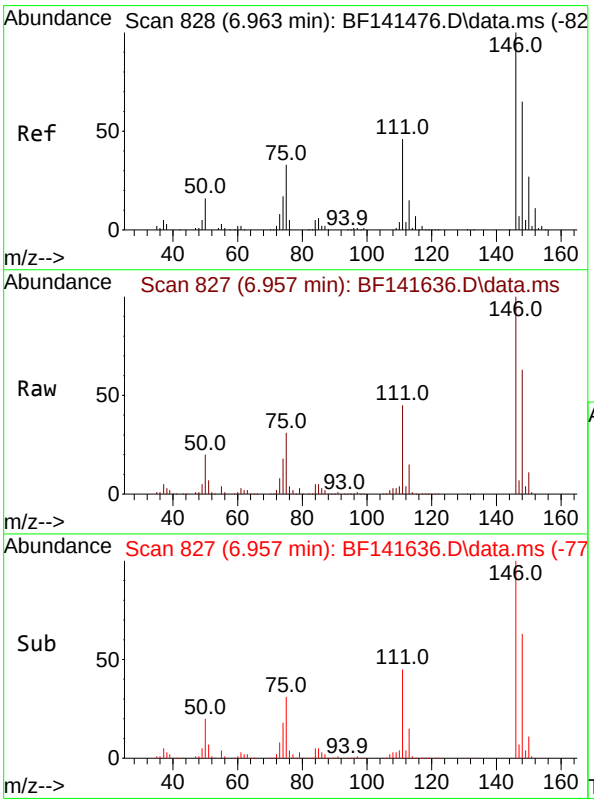
#13
1,4-Dichlorobenzene
Concen: 44.516 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:146 Resp: 281210

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.9	76.3
111	42.8	35.9	53.9

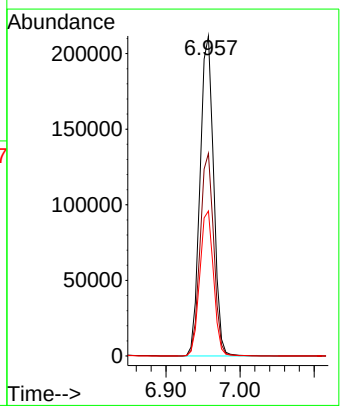


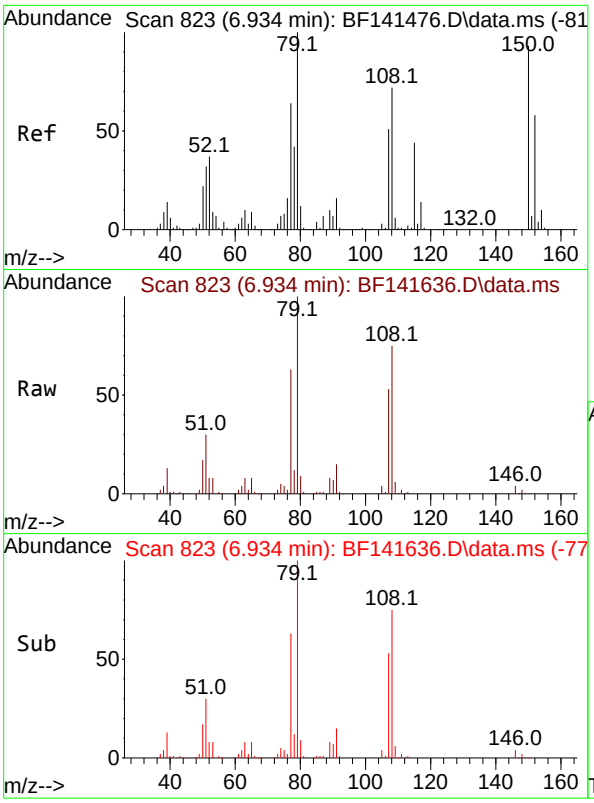


#14
1,2-Dichlorobenzene
Concen: 46.115 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:146 Resp: 270371

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.8	77.6
111	45.3	37.0	55.4



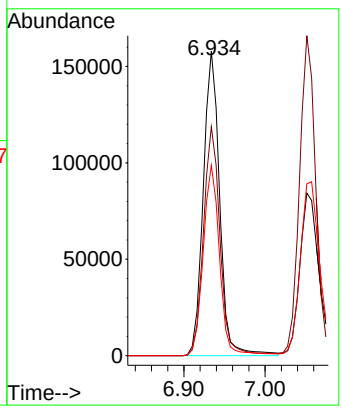


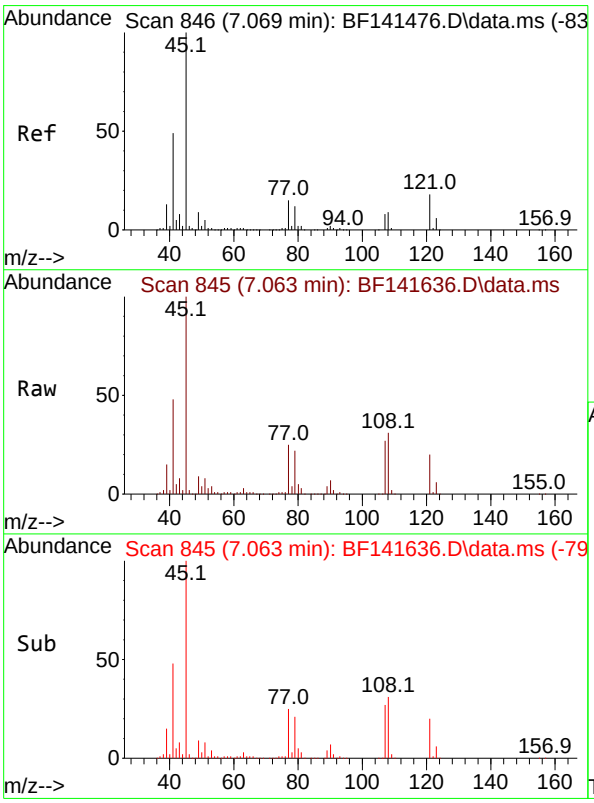
#15
Benzyl Alcohol
Concen: 42.148 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 79 Resp: 221414

Ion	Ratio	Lower	Upper
79	100		
108	75.2	57.4	86.2
77	62.5	50.9	76.3

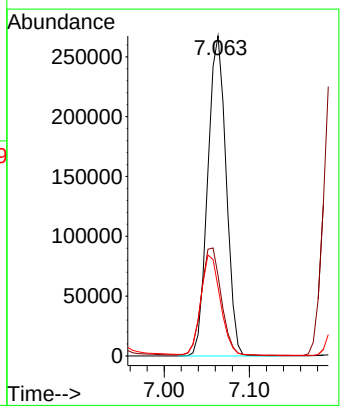


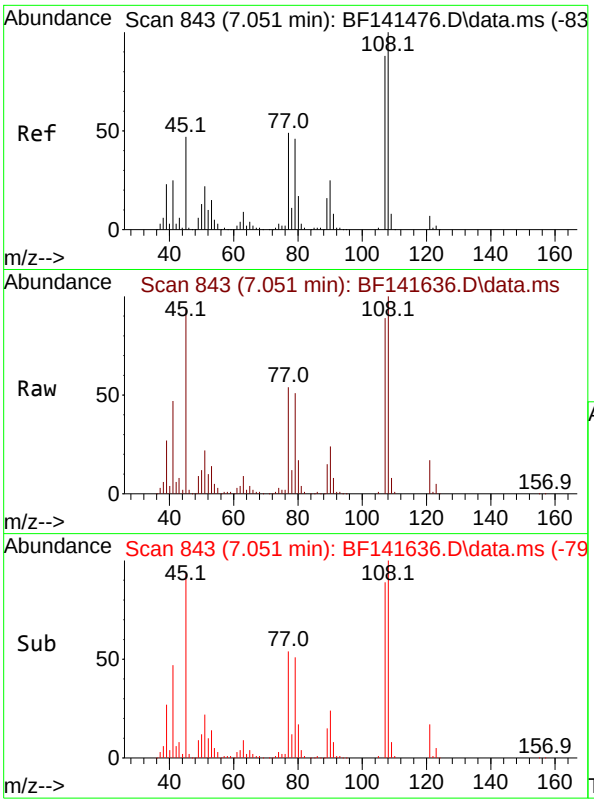


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.769 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 45 Resp: 401252

Ion	Ratio	Lower	Upper
45	100		
77	25.1	0.0	35.8
79	21.5	0.0	32.7



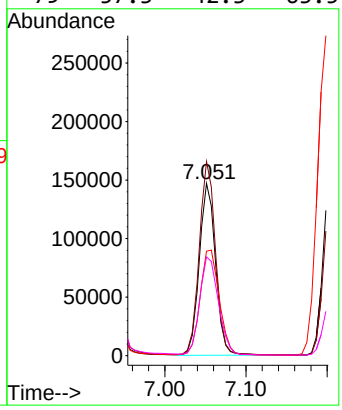


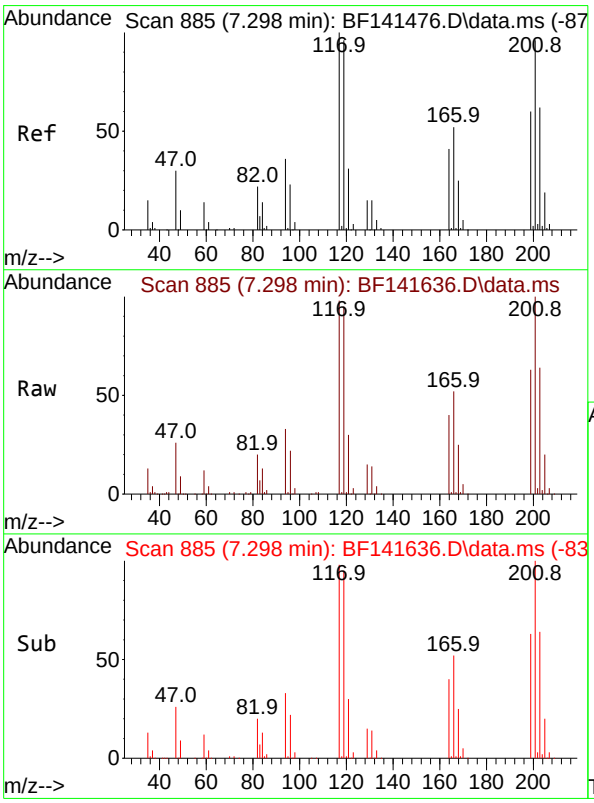
#17
2-Methylphenol
Concen: 44.511 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:107 Resp: 203996

Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.6	136.0
77	60.6	44.4	66.6
79	57.3	42.3	63.5

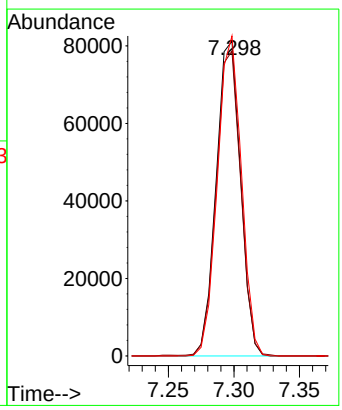


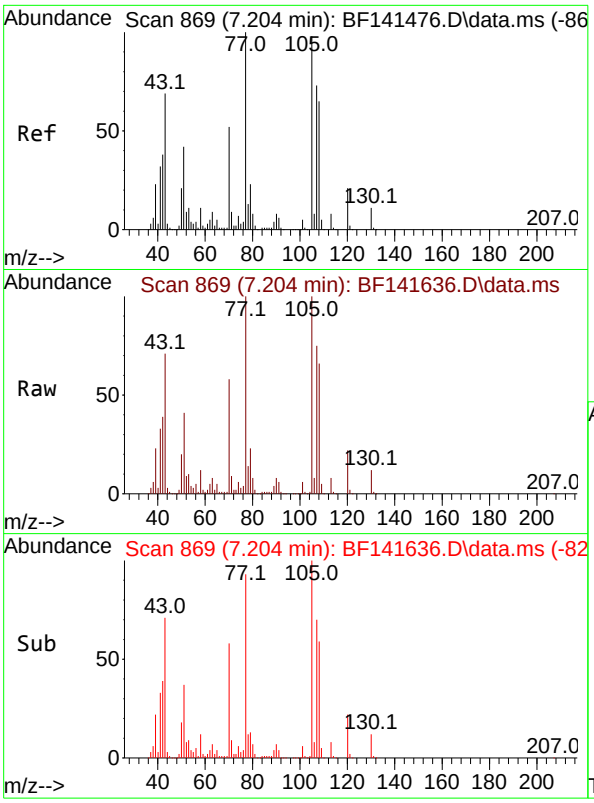


#18
Hexachloroethane
Concen: 44.938 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:117 Resp: 105061

Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.5	114.7
201	101.7	76.7	115.1



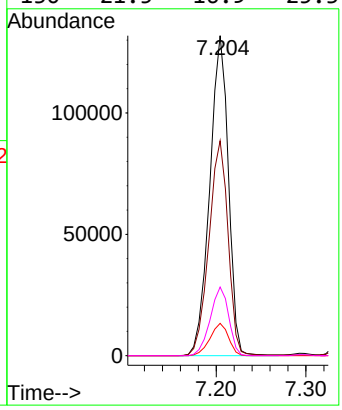


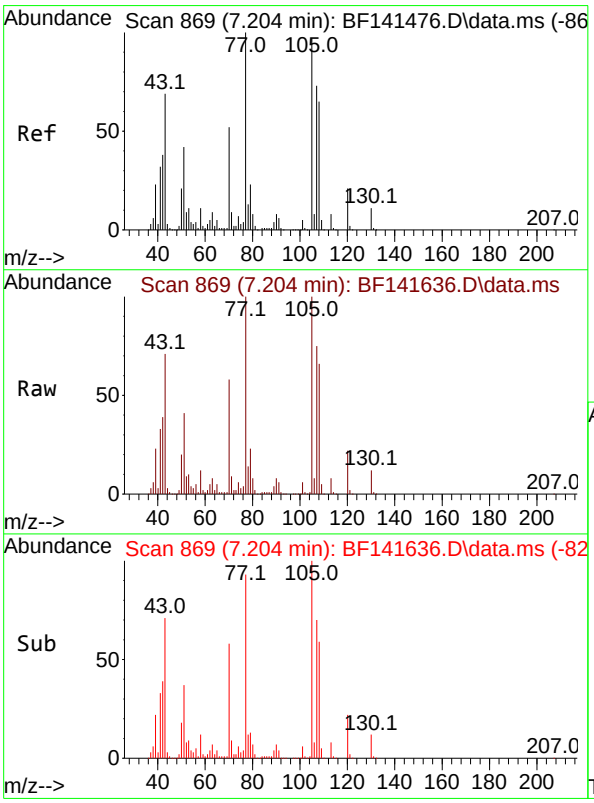
#19
n-Nitroso-di-n-propylamine
Concen: 46.447 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 70 Resp: 190325

Ion	Ratio	Lower	Upper
70	100		
42	67.1	57.4	86.2
101	10.1	8.0	12.0
130	21.5	16.9	25.3

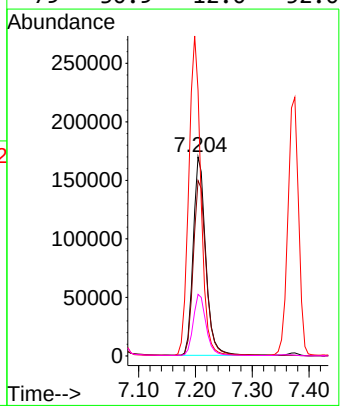


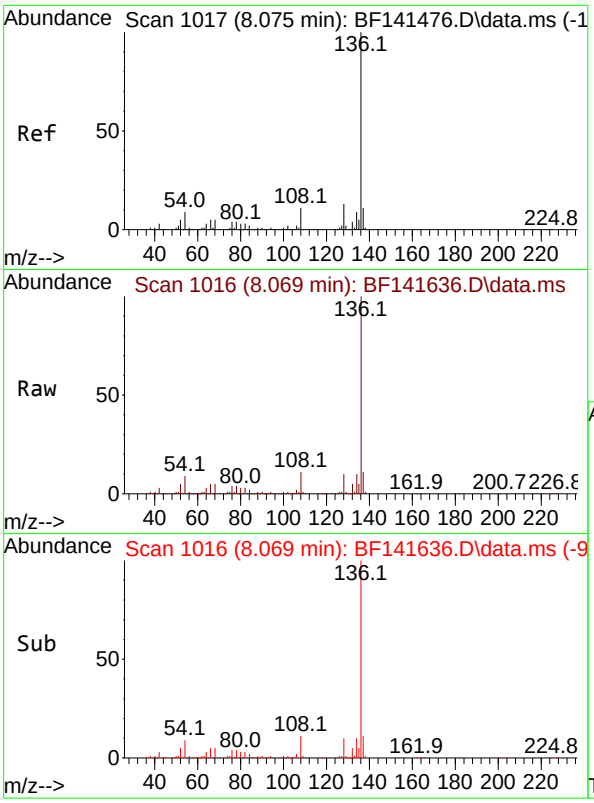


#20
3+4-Methylphenols
Concen: 44.867 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:107 Resp: 261327

Ion	Ratio	Lower	Upper
107	100		
108	88.1	68.5	108.5
77	133.5	116.5	156.5
79	30.9	12.0	52.0



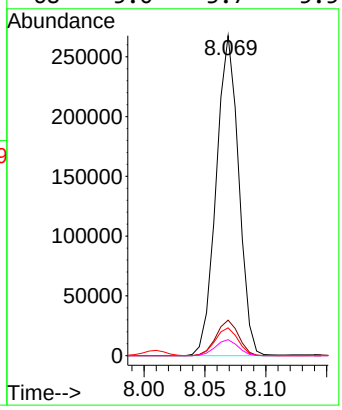


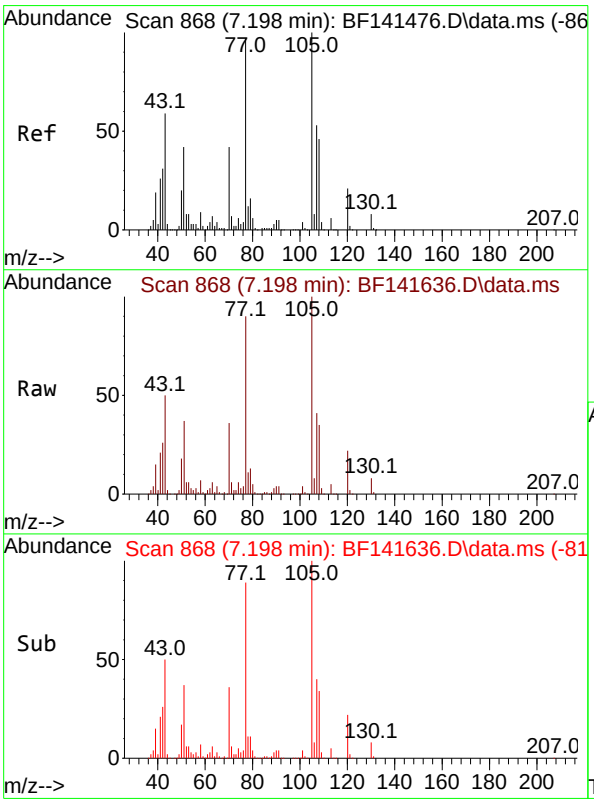
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:136 Resp: 344114

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	8.7	7.2	10.8
68	5.0	3.7	5.5

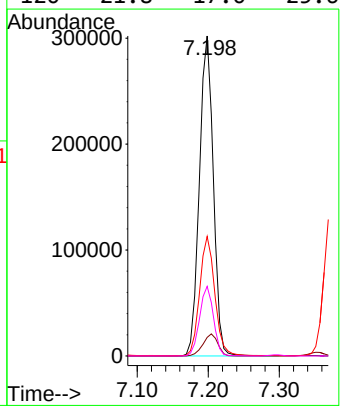


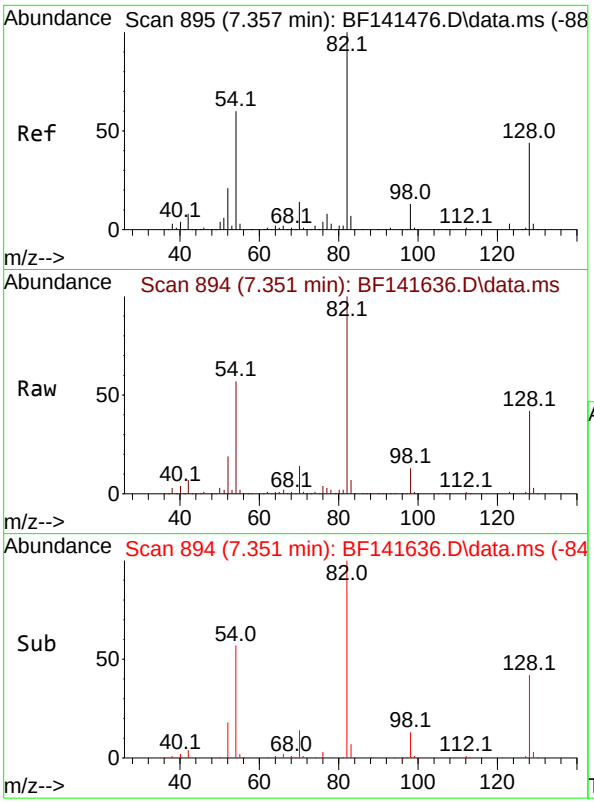


#22
Acetophenone
Concen: 48.352 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:105 Resp: 413898

Ion	Ratio	Lower	Upper
105	100		
71	5.8	5.7	8.5
51	37.4	33.7	50.5
120	21.8	17.0	25.6



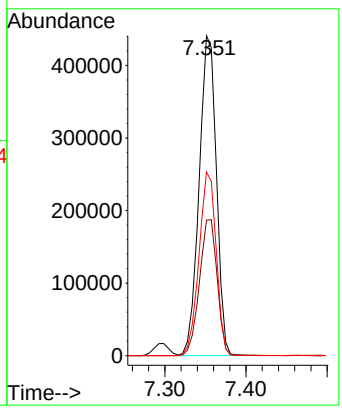


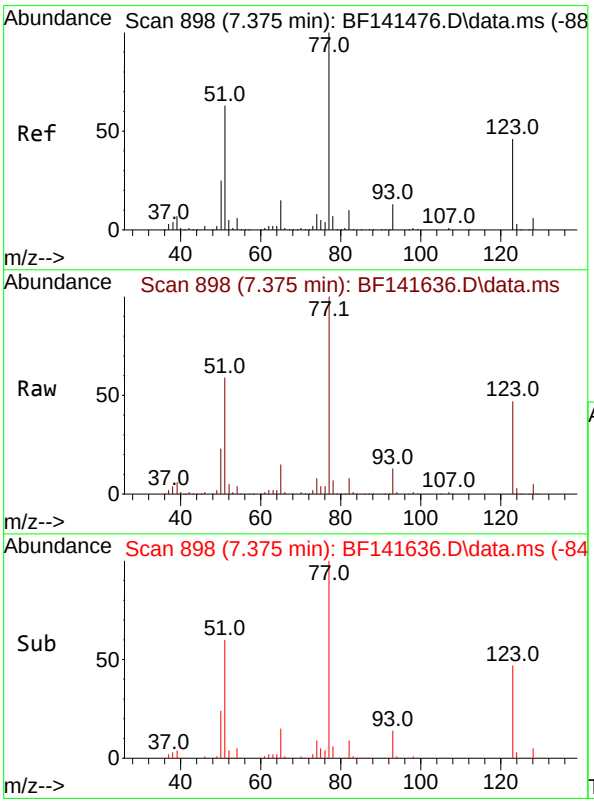
#23
Nitrobenzene-d5
Concen: 98.545 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 82 Resp: 650153

Ion	Ratio	Lower	Upper
82	100		
128	42.4	34.8	52.2
54	57.4	48.2	72.4

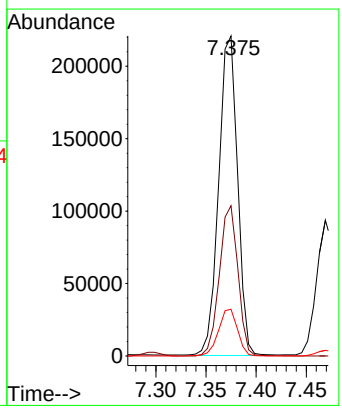


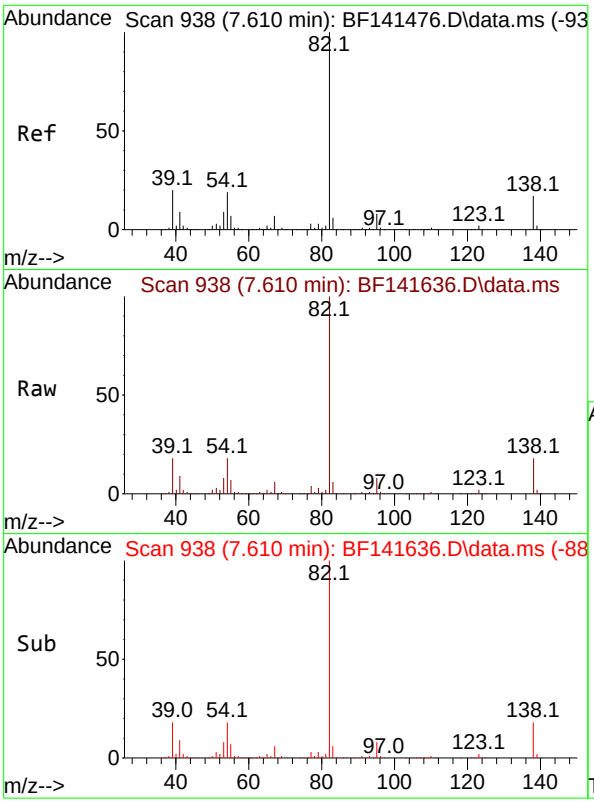


#24
Nitrobenzene
Concen: 44.866 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 77 Resp: 288642

Ion	Ratio	Lower	Upper
77	100		
123	47.0	36.9	55.3
65	14.6	11.9	17.9



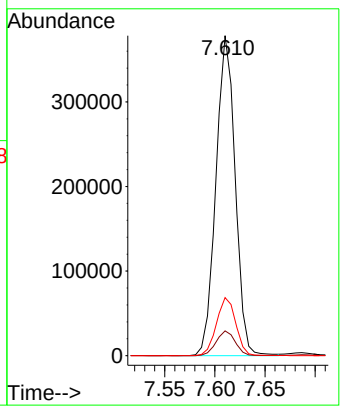


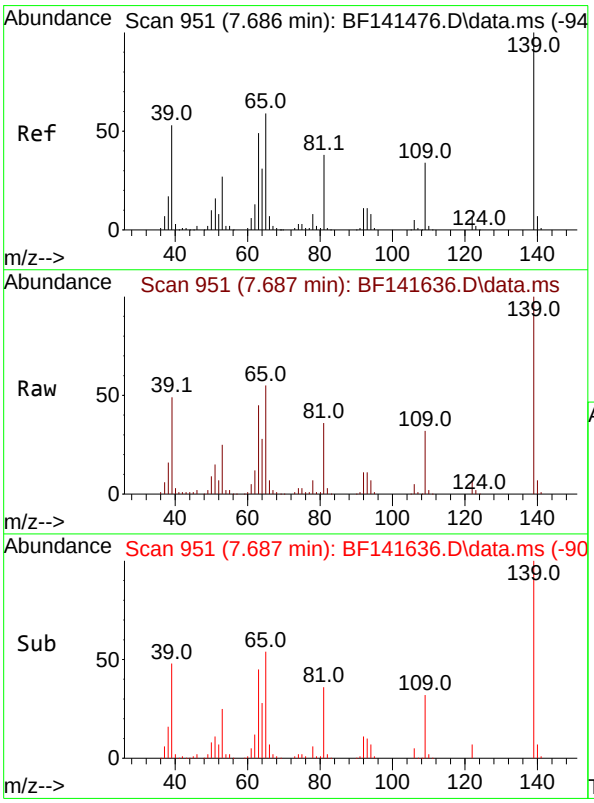
#25
Isophorone
Concen: 47.999 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 82 Resp: 504925

Ion	Ratio	Lower	Upper
82	100		
95	7.7	6.4	9.6
138	18.2	13.9	20.9

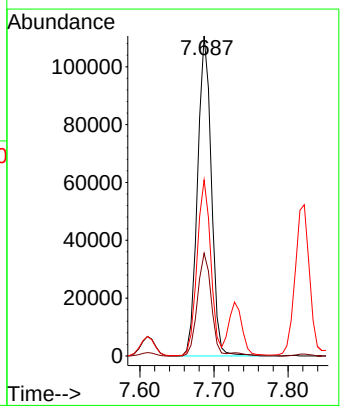


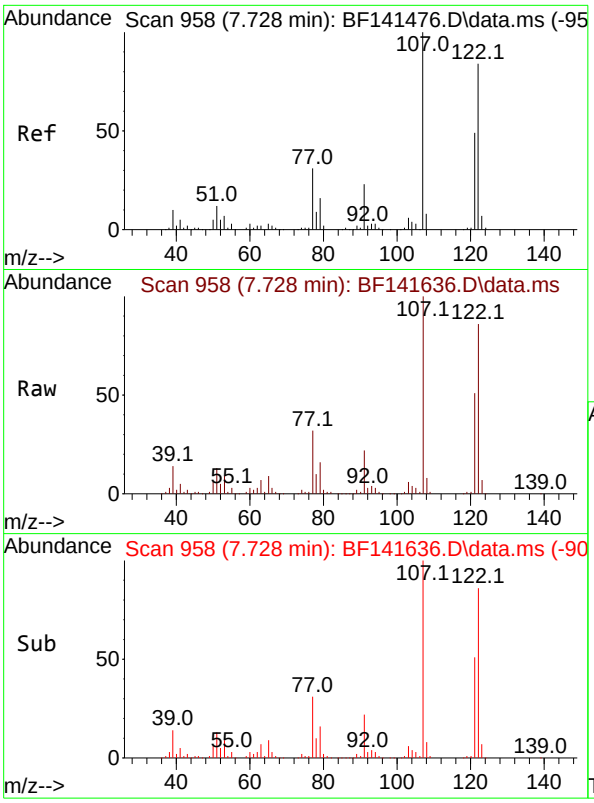


#26
2-Nitrophenol
Concen: 44.742 ng
RT: 7.687 min Scan# 951
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:139 Resp: 143208

Ion	Ratio	Lower	Upper
139	100		
109	32.1	27.0	40.6
65	55.0	47.1	70.7



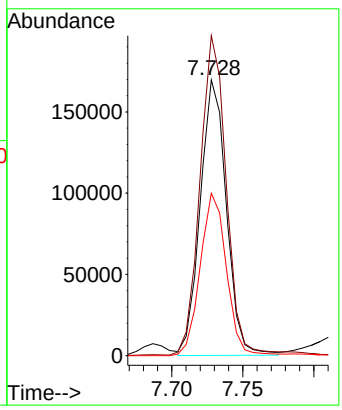


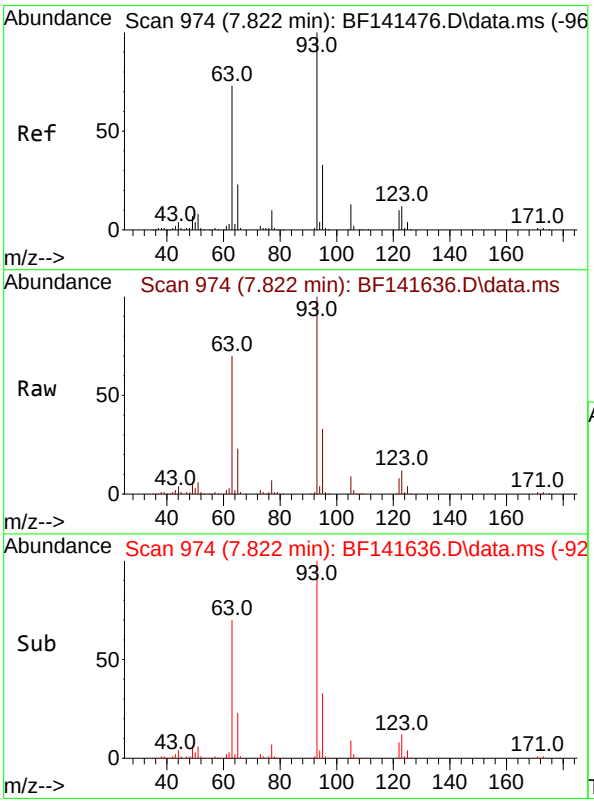
#27
2,4-Dimethylphenol
Concen: 58.159 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:122 Resp: 217464

Ion	Ratio	Lower	Upper
122	100		
107	116.0	94.3	141.5
121	58.9	46.0	69.0

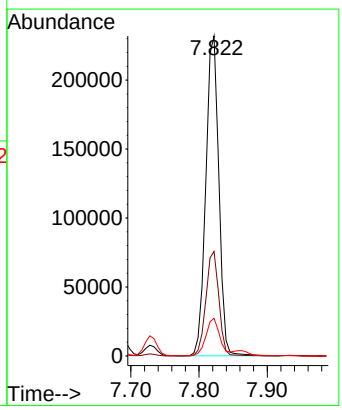


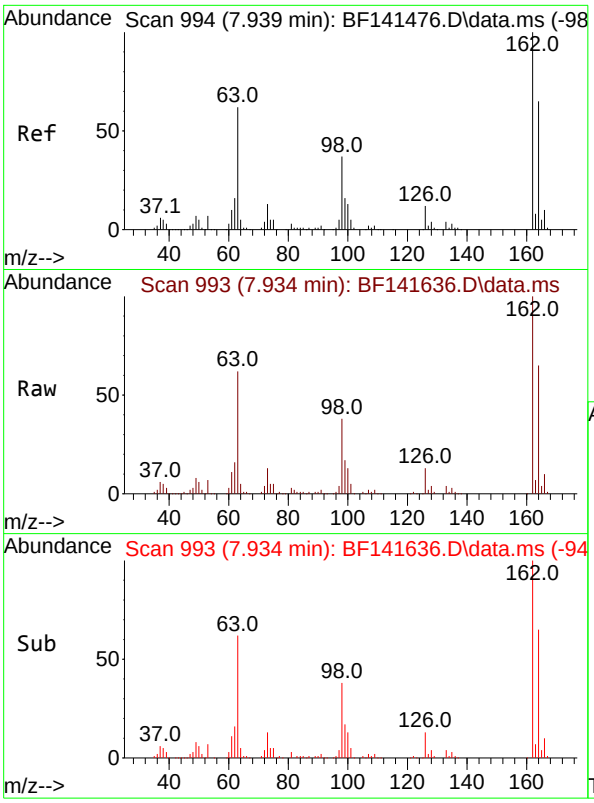


#28
bis(2-Chloroethoxy)methane
Concen: 45.728 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 93 Resp: 308243

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.1	39.1
123	11.7	9.5	14.3



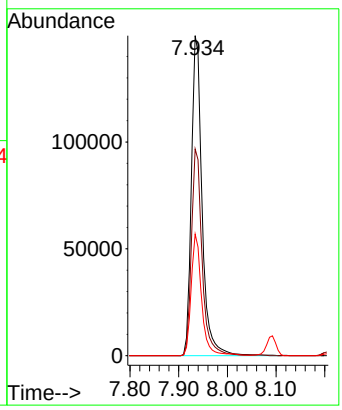


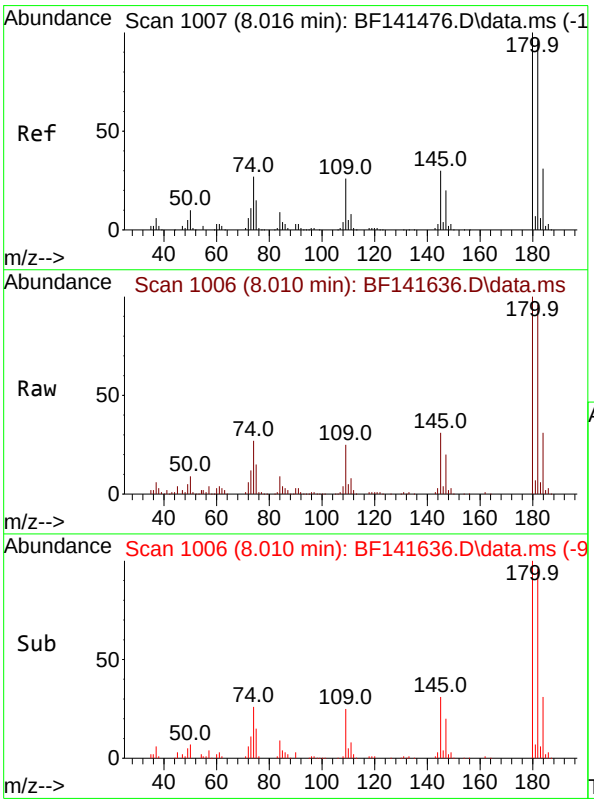
#29
2,4-Dichlorophenol
Concen: 45.412 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:162 Resp: 229425

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.6	84.6
98	38.0	17.2	57.2

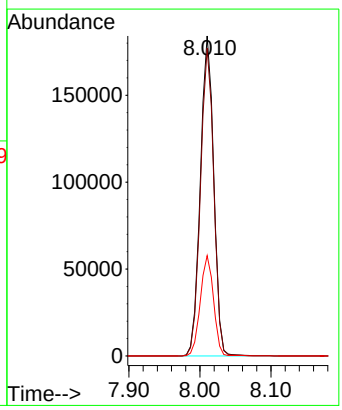


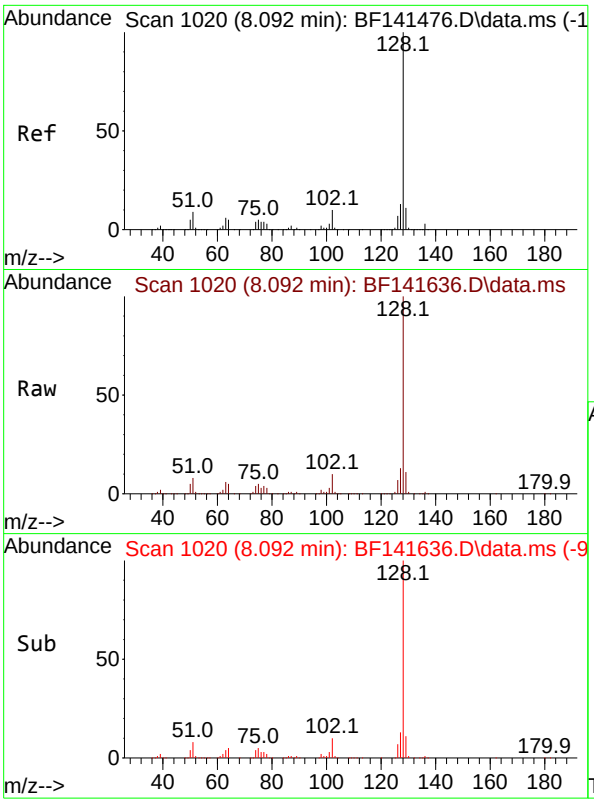


#30
1,2,4-Trichlorobenzene
Concen: 44.078 ng
RT: 8.010 min Scan# 1006
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:180 Resp: 242498

Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.8	115.2
145	31.4	24.2	36.4



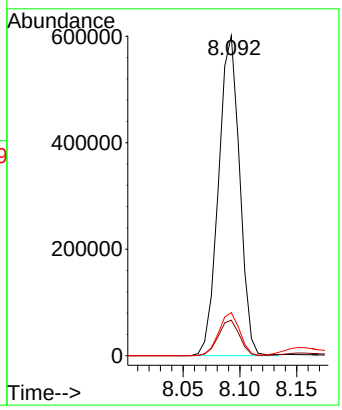


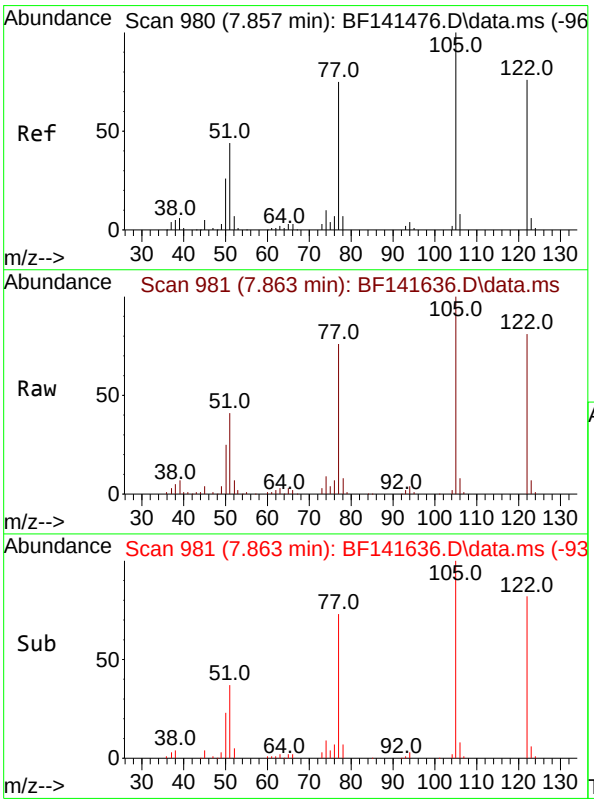
#31
Naphthalene
Concen: 43.465 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:128 Resp: 778564

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.5	10.7	16.1

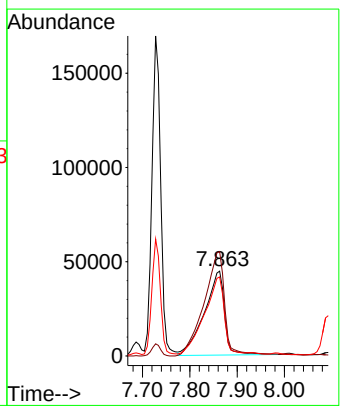


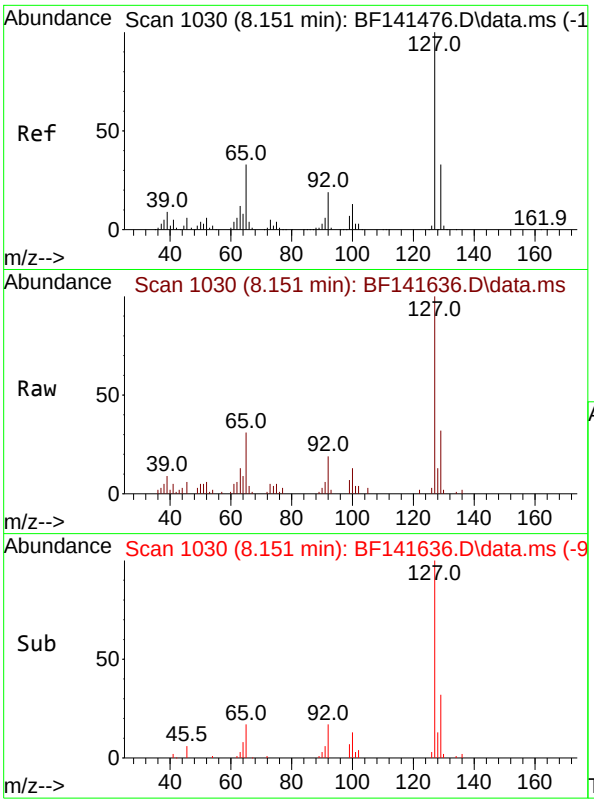


#32
Benzoic acid
Concen: 34.078 ng
RT: 7.863 min Scan# 981
Delta R.T. -0.029 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:122 Resp: 132353

Ion	Ratio	Lower	Upper
122	100		
105	123.1	106.5	146.5
77	93.2	76.3	116.3



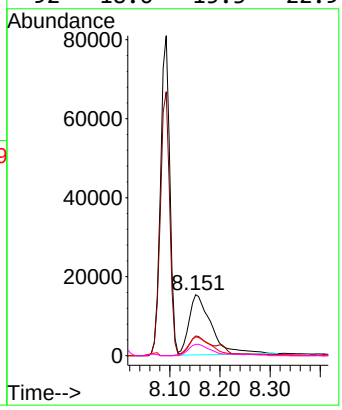


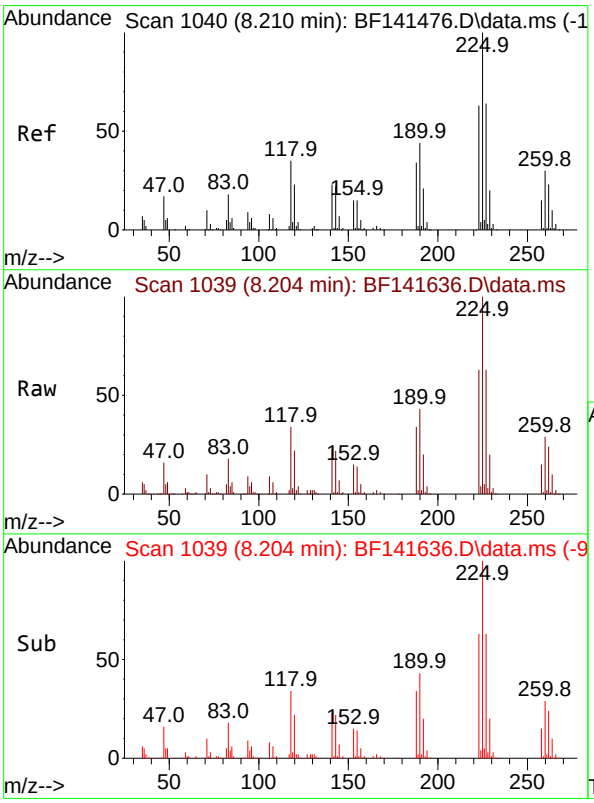
#33
4-Chloroaniline
Concen: 7.586 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:127 Resp: 47445

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.5	39.7
65	30.6	26.4	39.6
92	18.6	15.3	22.9

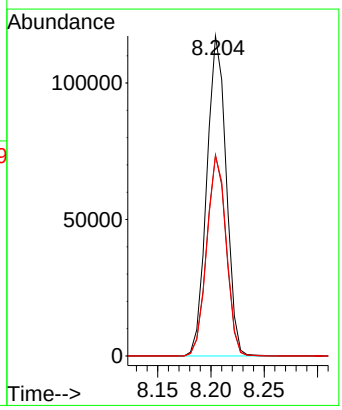


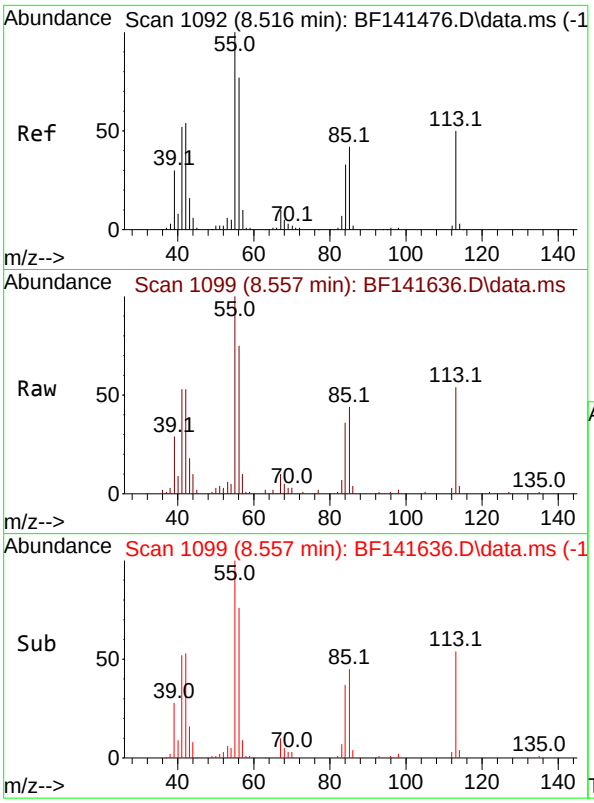


#34
Hexachlorobutadiene
Concen: 44.899 ng
RT: 8.204 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:225 Resp: 148293

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1
227	62.7	51.0	76.6



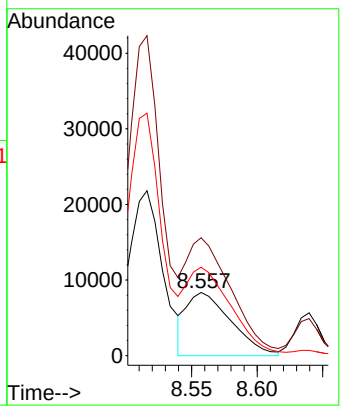


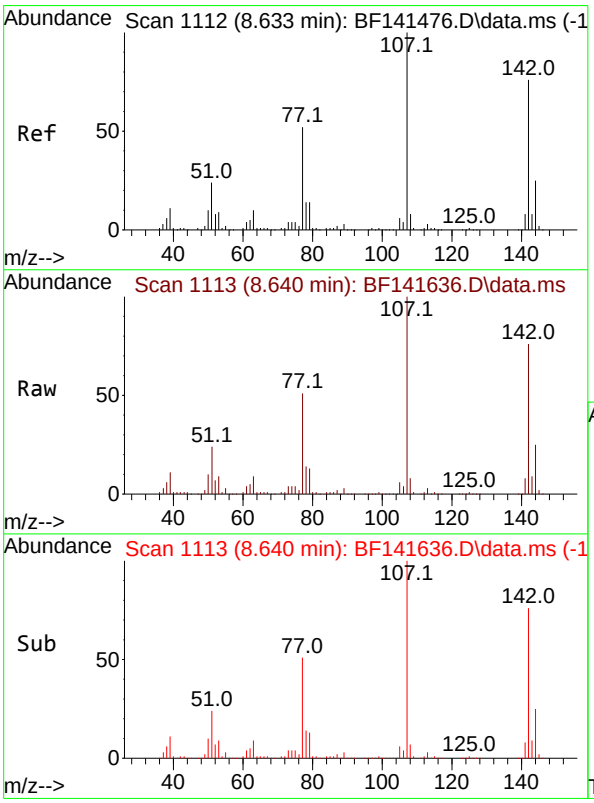
#35
Caprolactam
Concen: 12.916 ng
RT: 8.557 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:113 Resp: 19867

Ion	Ratio	Lower	Upper
113	100		
55	186.7	180.8	220.8
56	140.2	133.6	173.6

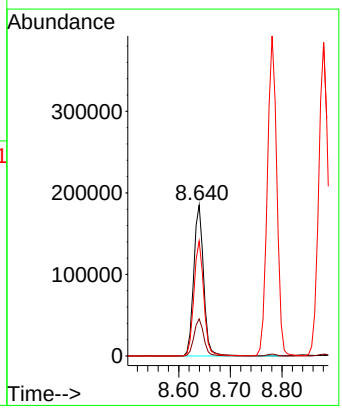


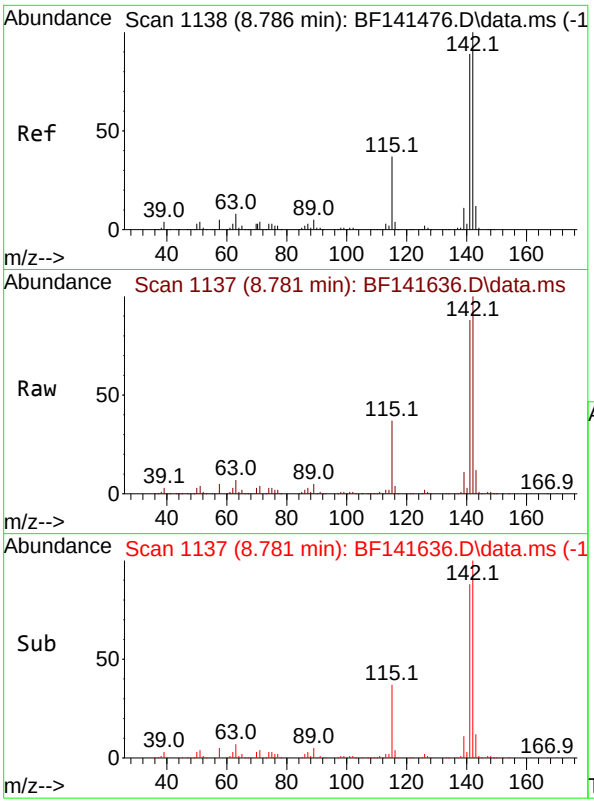


#36
4-Chloro-3-methylphenol
Concen: 44.044 ng
RT: 8.640 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:107 Resp: 246482

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.7	29.5
142	76.2	60.8	91.2



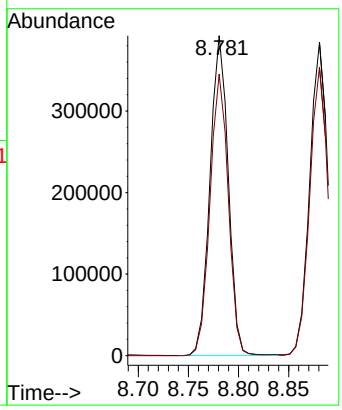


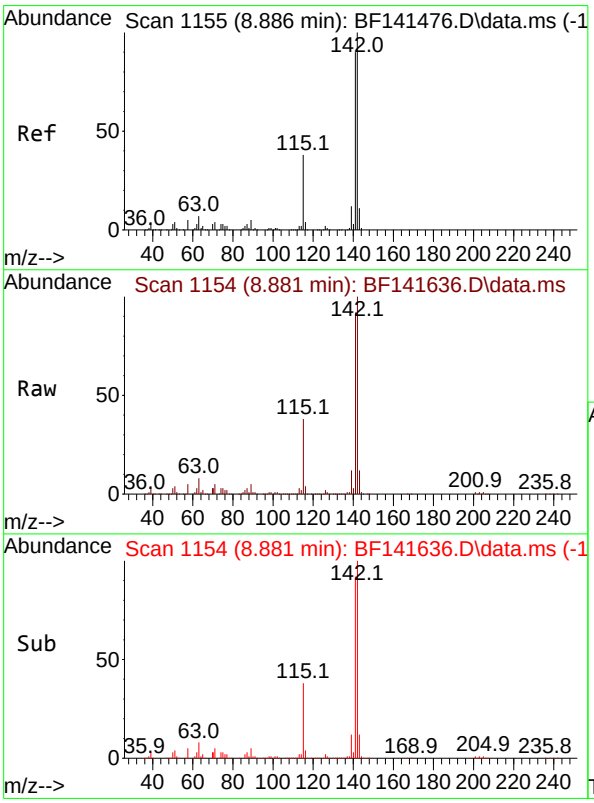
#37
2-Methylnaphthalene
Concen: 42.725 ng
RT: 8.781 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:142 Resp: 498009

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.2	106.8

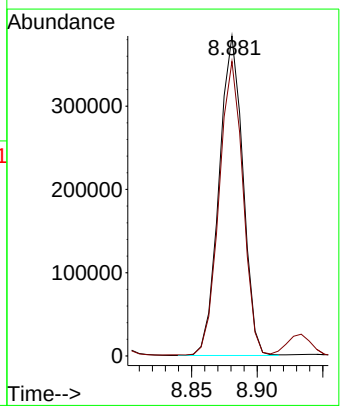


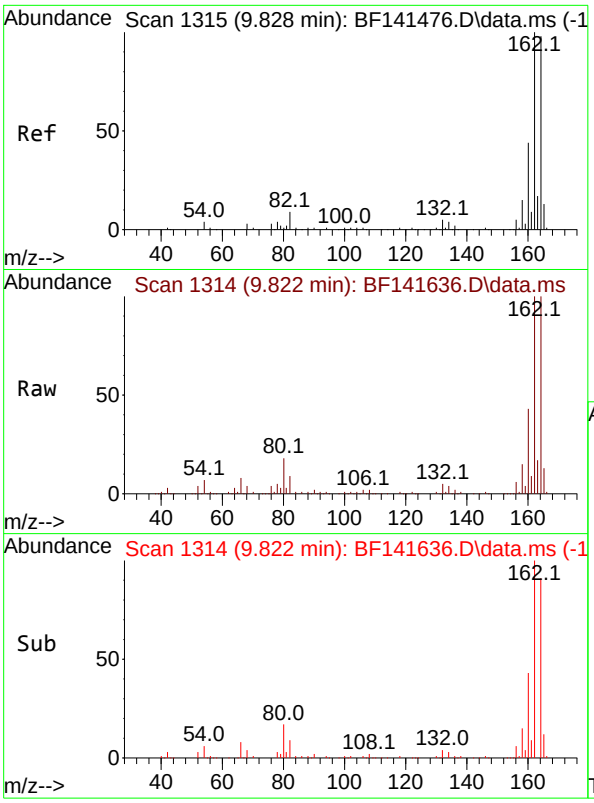


#38
1-Methylnaphthalene
Concen: 42.922 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:142 Resp: 484567

Ion	Ratio	Lower	Upper
142	100		
141	92.0	72.1	108.1



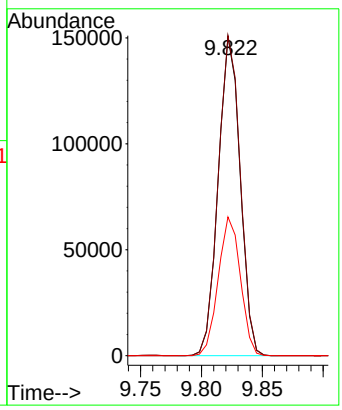


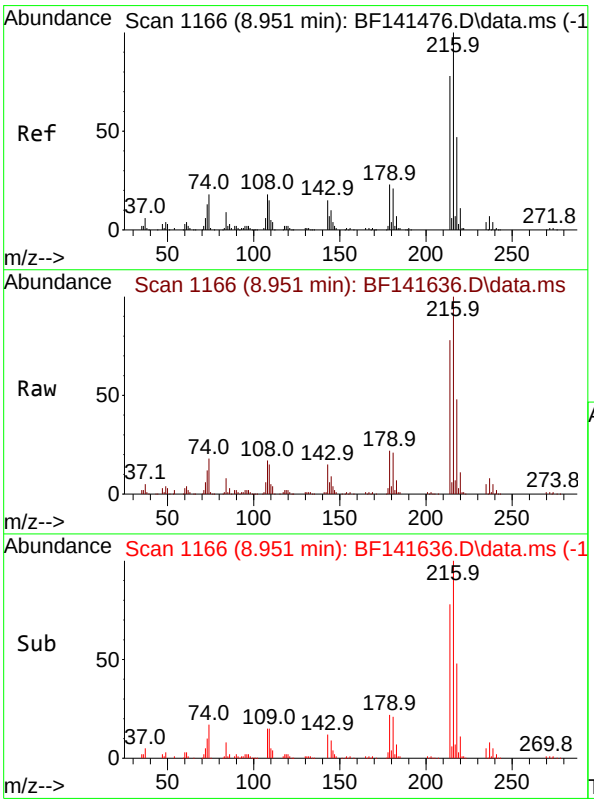
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:164 Resp: 188709

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.3	121.9
160	43.5	35.9	53.9

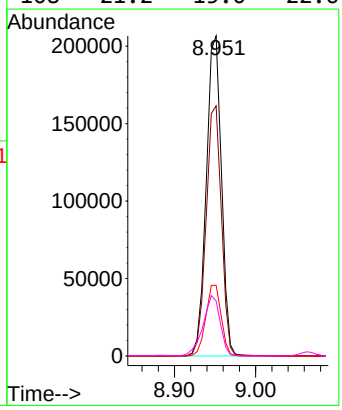


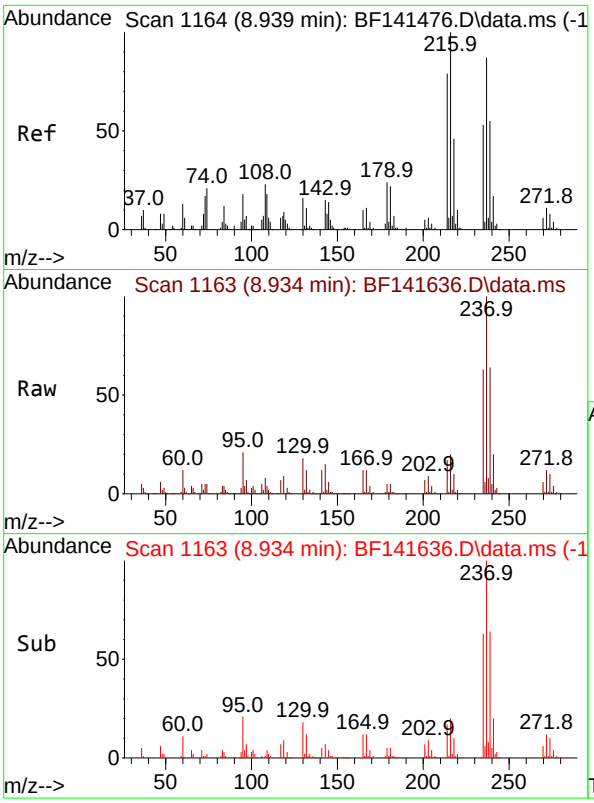


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.056 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:216 Resp: 267826

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.3	93.5
179	22.4	18.0	27.0
108	21.2	15.0	22.6



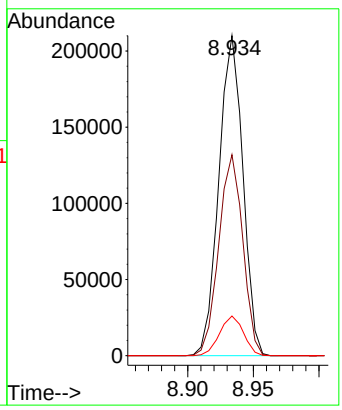


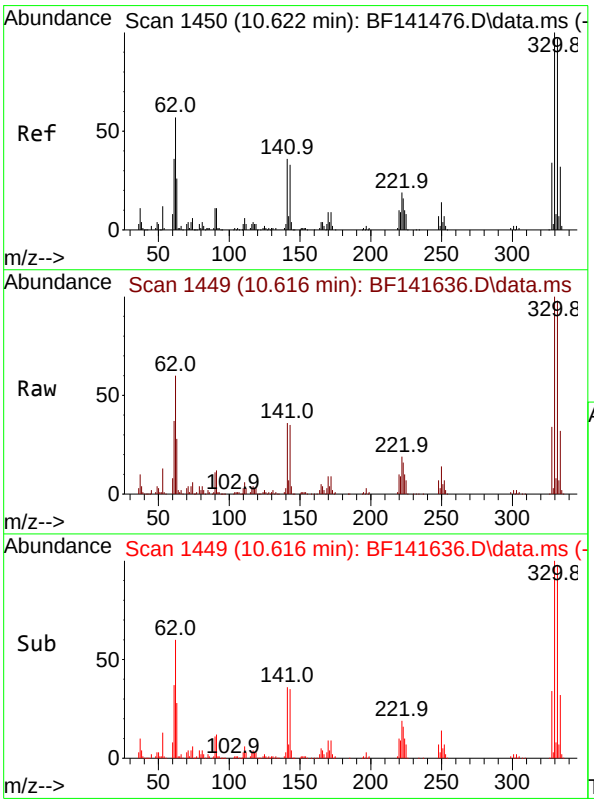
#41
Hexachlorocyclopentadiene
Concen: 147.448 ng
RT: 8.934 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:237 Resp: 267751

Ion	Ratio	Lower	Upper
237	100		
235	62.8	41.4	81.4
272	12.4	0.0	32.4

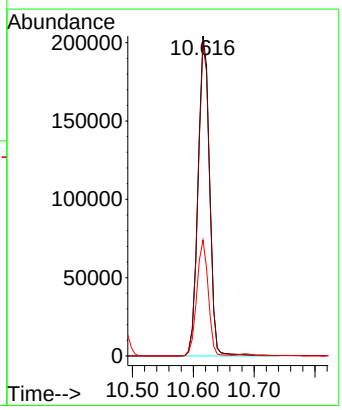


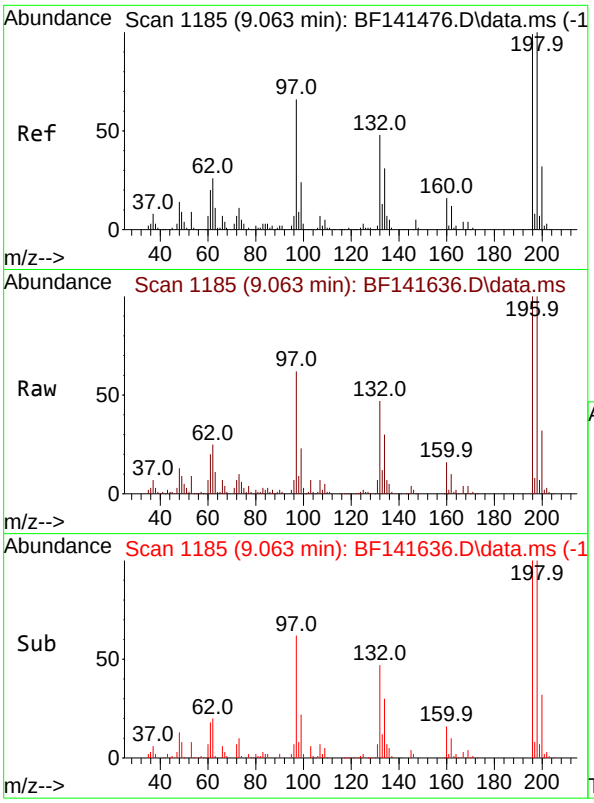


#42
2,4,6-Tribromophenol
Concen: 141.827 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:330 Resp: 268857

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.5	117.7
141	35.7	31.0	46.4



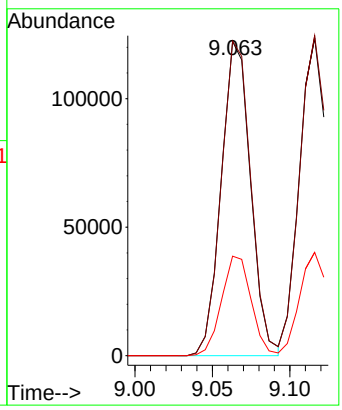


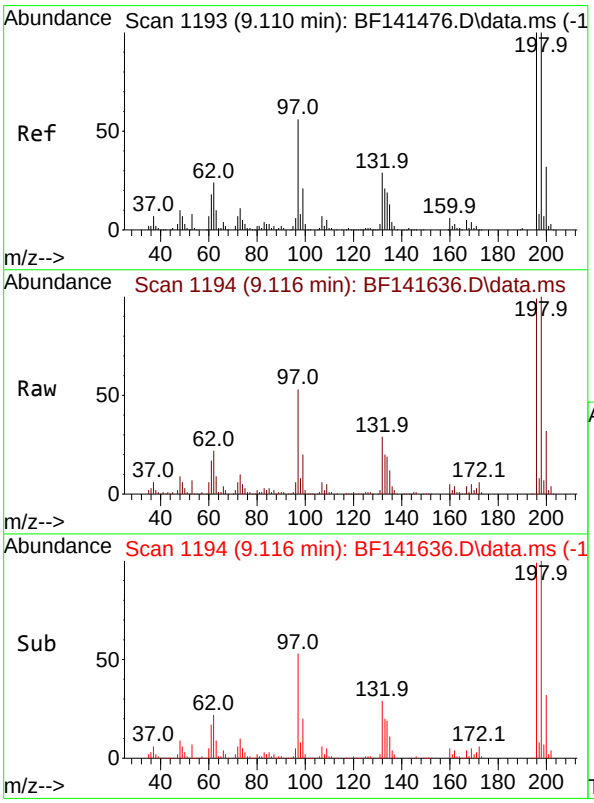
#43
2,4,6-Trichlorophenol
Concen: 45.737 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:196 Resp: 161389

Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.6	121.0
200	31.7	25.5	38.3

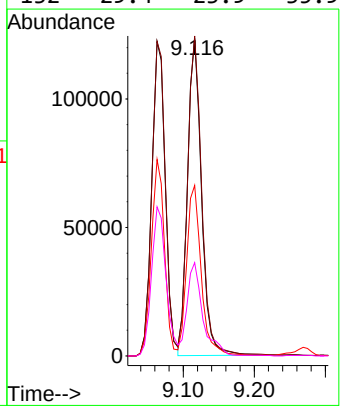


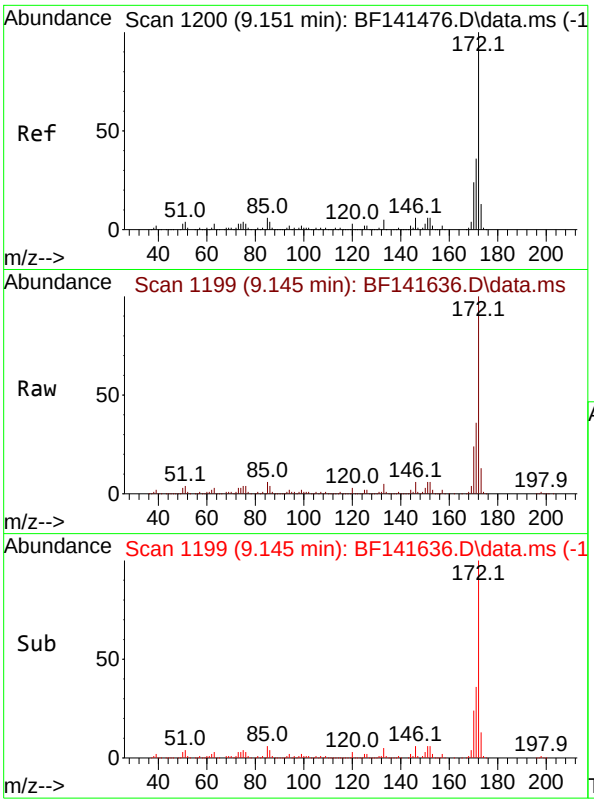


#44
2,4,5-Trichlorophenol
Concen: 44.341 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:196 Resp: 169569

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.8	119.8
97	53.7	44.8	67.2
132	29.4	23.9	35.9



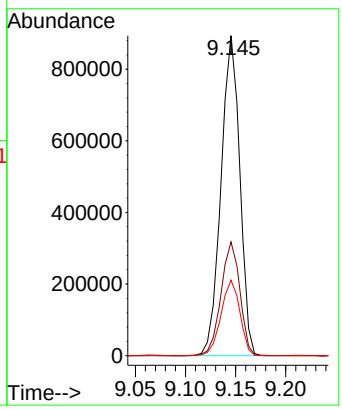


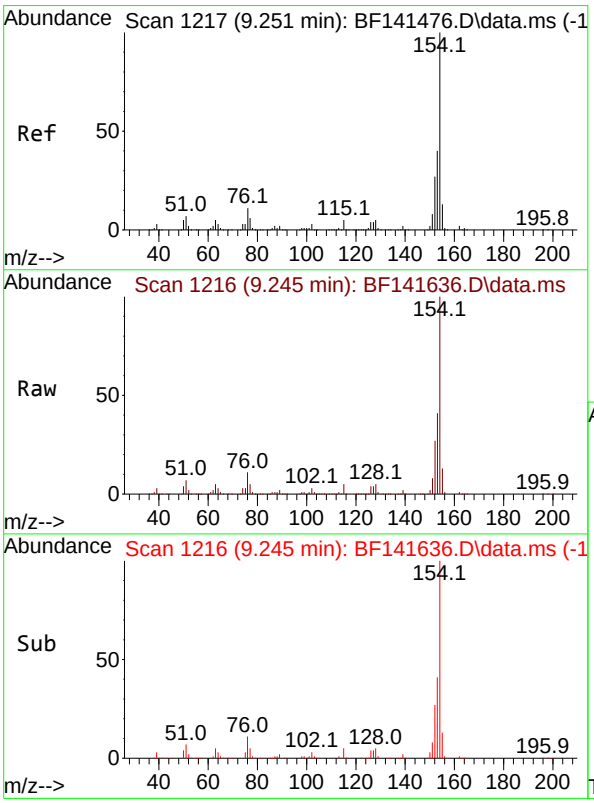
#45
2-Fluorobiphenyl
Concen: 95.022 ng
RT: 9.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:172 Resp: 1163900

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.7	43.1
170	23.6	18.9	28.3

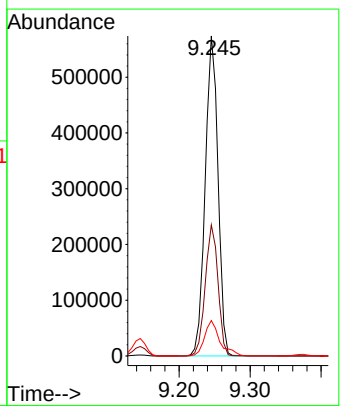


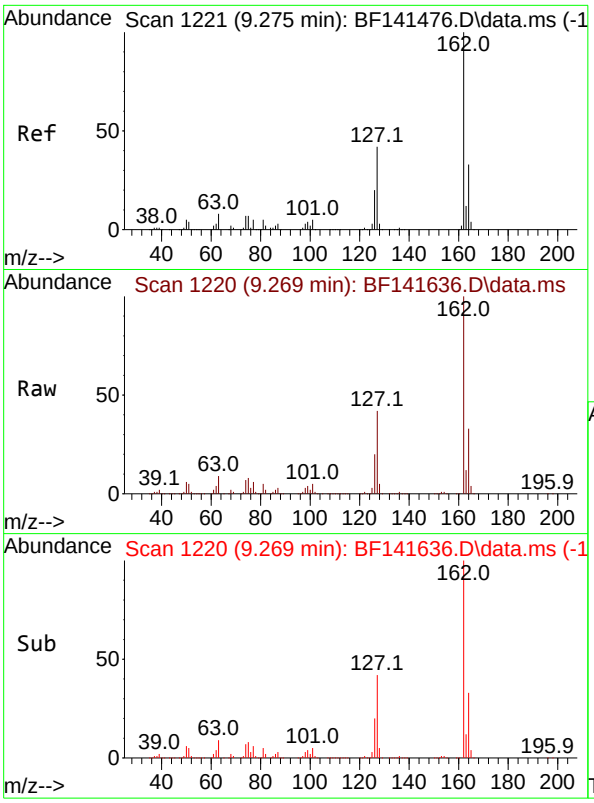


#46
1,1'-Biphenyl
Concen: 49.266 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:154 Resp: 720778

Ion	Ratio	Lower	Upper
154	100		
153	41.0	20.4	60.4
76	11.1	0.0	30.8



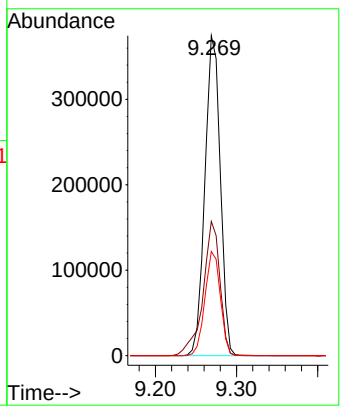


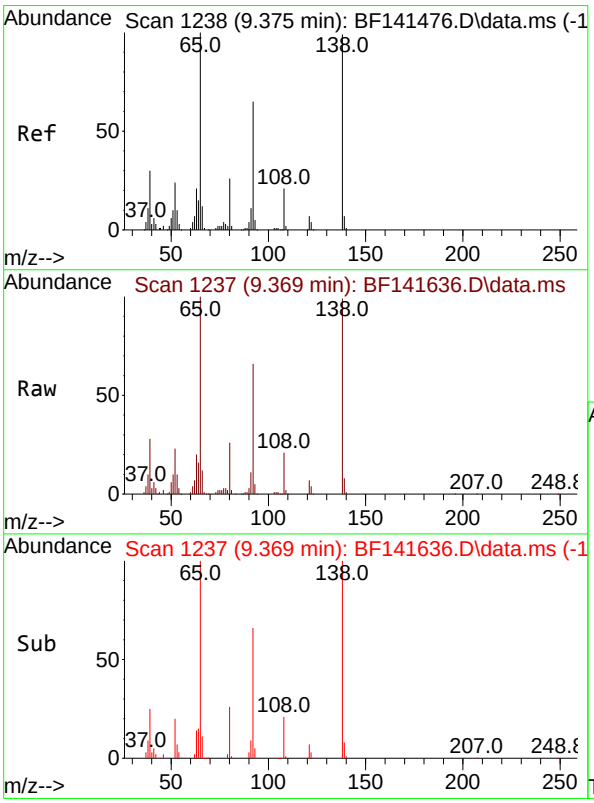
#47
2-Chloronaphthalene
Concen: 45.535 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:162 Resp: 492631

Ion	Ratio	Lower	Upper
162	100		
127	42.0	34.1	51.1
164	32.6	26.3	39.5

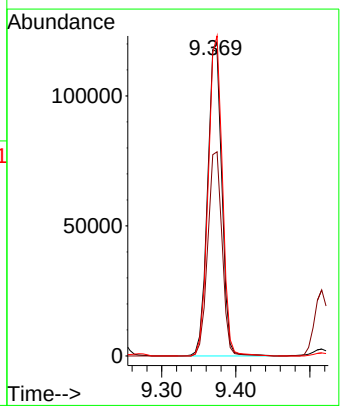


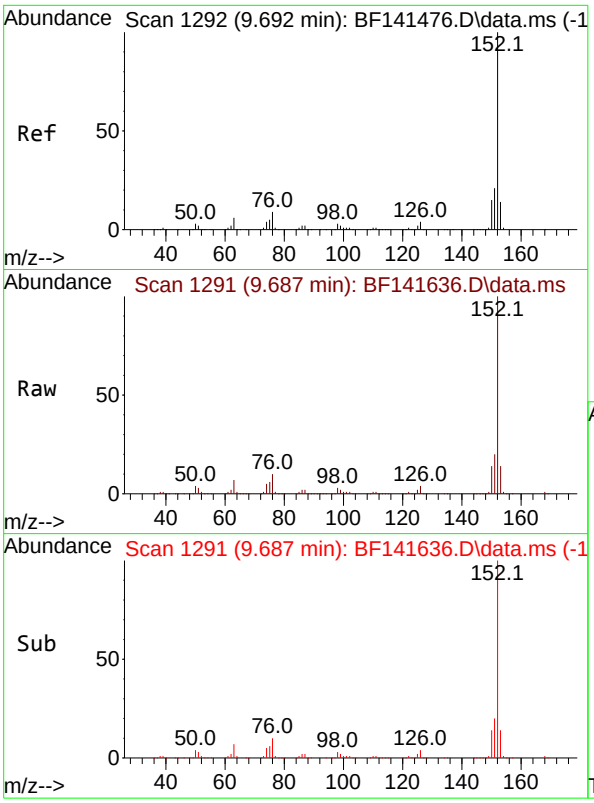


#48
2-Nitroaniline
Concen: 43.869 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion: 65 Resp: 159276

Ion	Ratio	Lower	Upper
65	100		
92	65.7	52.2	78.2
138	98.9	79.5	119.3



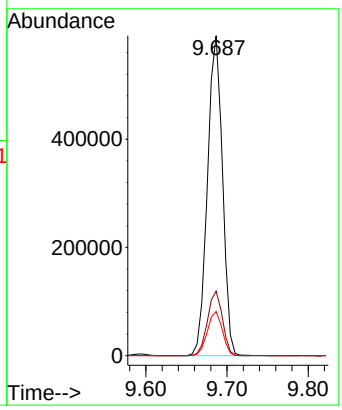


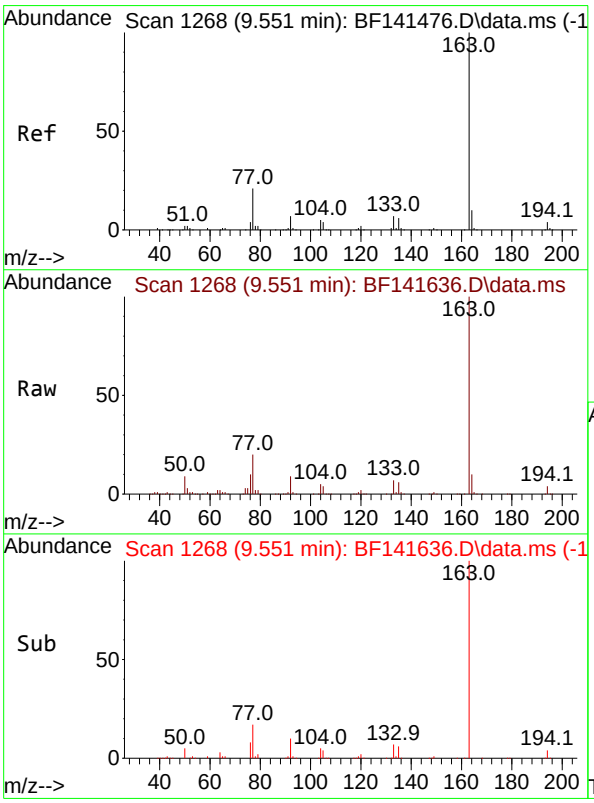
#49
Acenaphthylene
Concen: 47.086 ng
RT: 9.687 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:152 Resp: 757692

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6
153	13.8	10.9	16.3

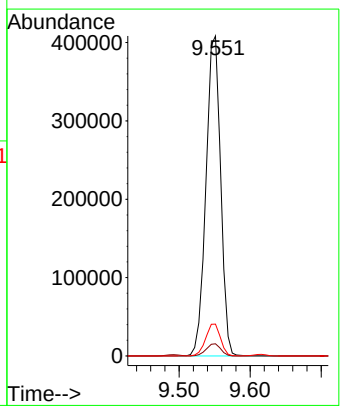


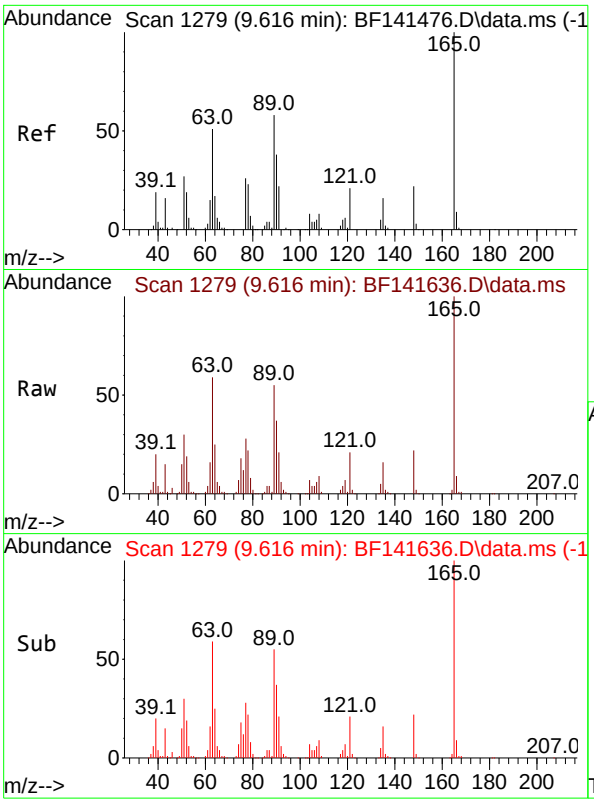


#50
Dimethylphthalate
Concen: 45.846 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:163 Resp: 587334

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.4
164	10.0	7.9	11.9



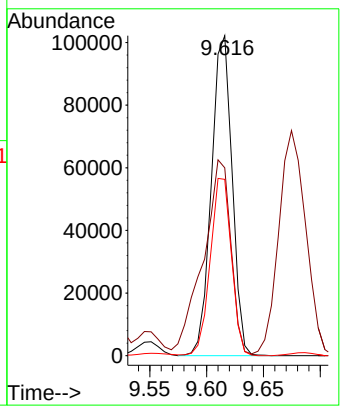


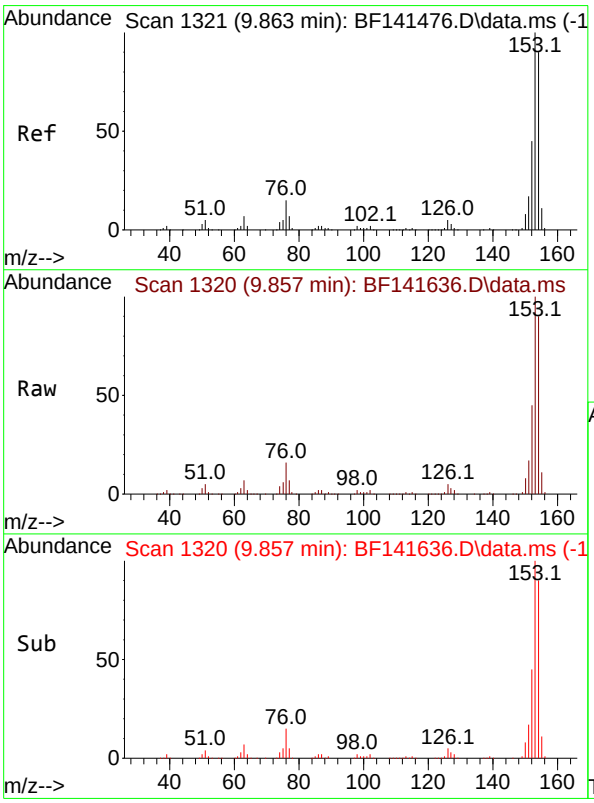
#51
2,6-Dinitrotoluene
Concen: 46.325 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:165 Resp: 129736

Ion	Ratio	Lower	Upper
165	100		
63	58.7	49.4	74.0
89	55.1	46.5	69.7

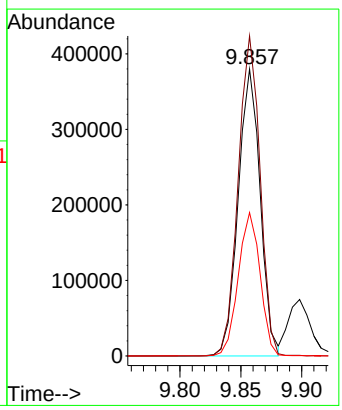


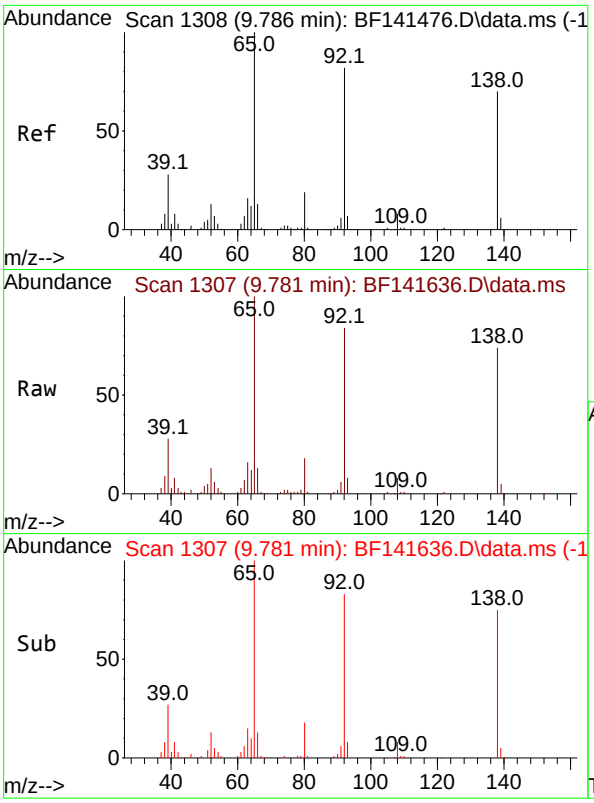


#52
Acenaphthene
Concen: 44.175 ng
RT: 9.857 min Scan# 1320
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:154 Resp: 477895

Ion	Ratio	Lower	Upper
154	100		
153	111.6	89.2	133.8
152	50.0	39.8	59.8



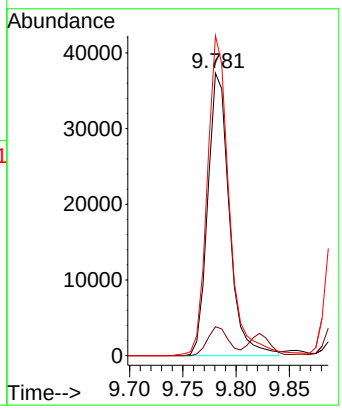


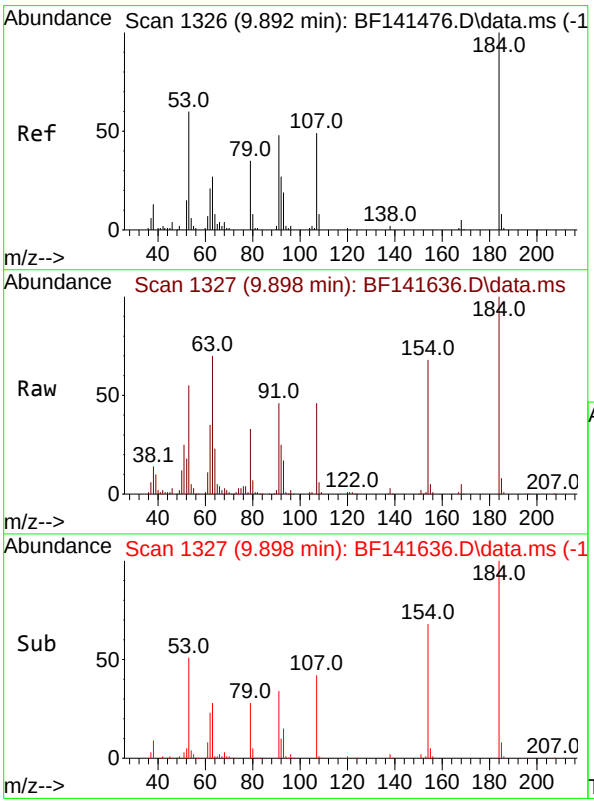
#53
3-Nitroaniline
Concen: 17.475 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:138 Resp: 52673

Ion	Ratio	Lower	Upper
138	100		
108	10.2	9.0	13.4
92	113.3	93.7	140.5

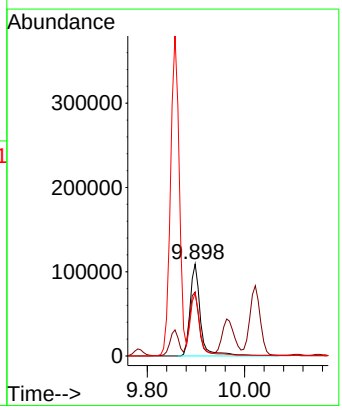


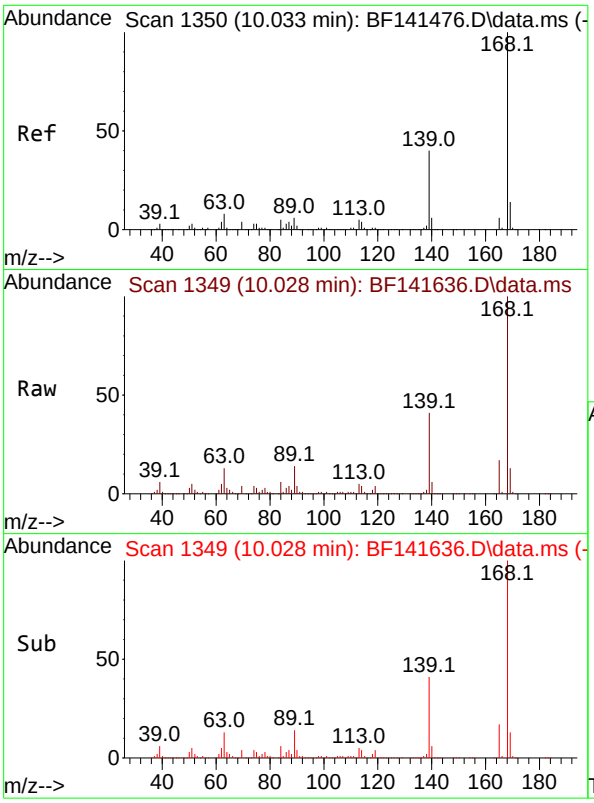


#54
2,4-Dinitrophenol
Concen: 97.264 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:184 Resp: 161892

Ion	Ratio	Lower	Upper
184	100		
63	69.5	61.0	91.6
154	68.4	59.9	89.9



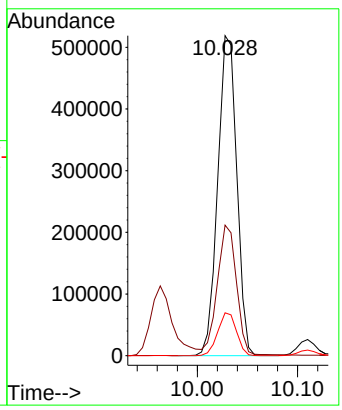


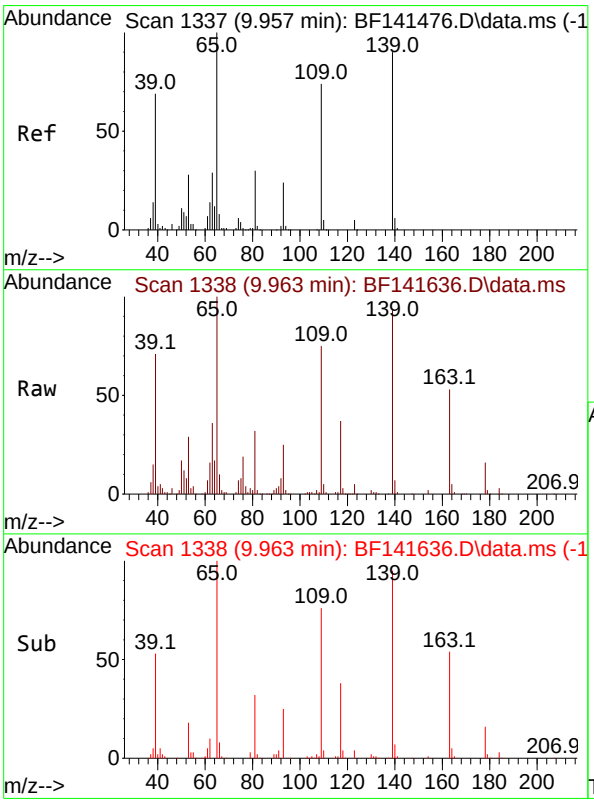
#55
Dibenzofuran
Concen: 43.083 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:168 Resp: 684122

Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.7	49.1
169	13.4	10.8	16.2

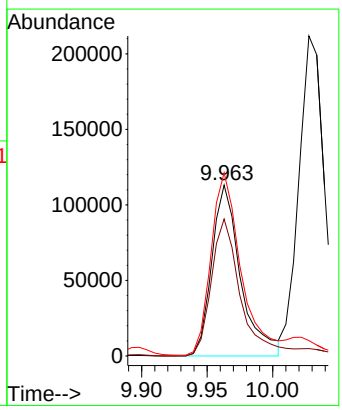


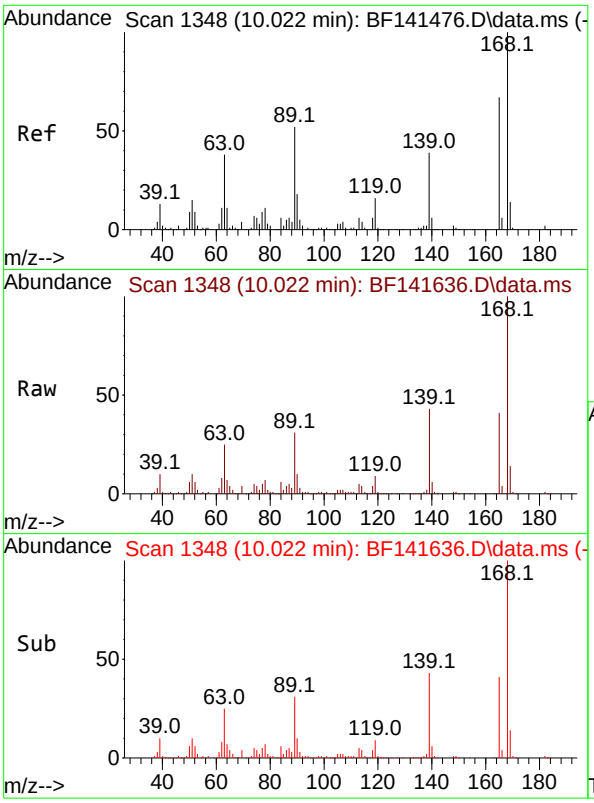


#56
4-Nitrophenol
Concen: 77.535 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:139 Resp: 173490

Ion	Ratio	Lower	Upper
139	100		
109	80.1	62.0	102.0
65	107.2	91.2	131.2



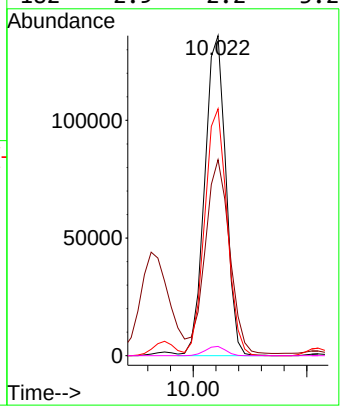


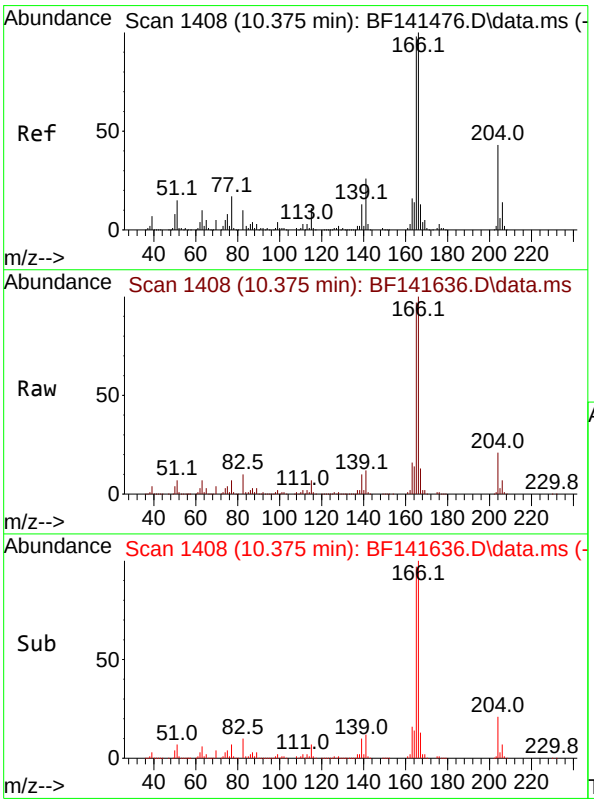
#57
2,4-Dinitrotoluene
Concen: 47.056 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:165 Resp: 175435

Ion	Ratio	Lower	Upper
165	100		
63	61.3	46.4	69.6
89	77.2	61.8	92.6
182	2.9	2.2	3.2

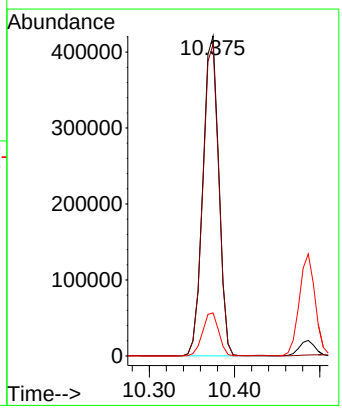


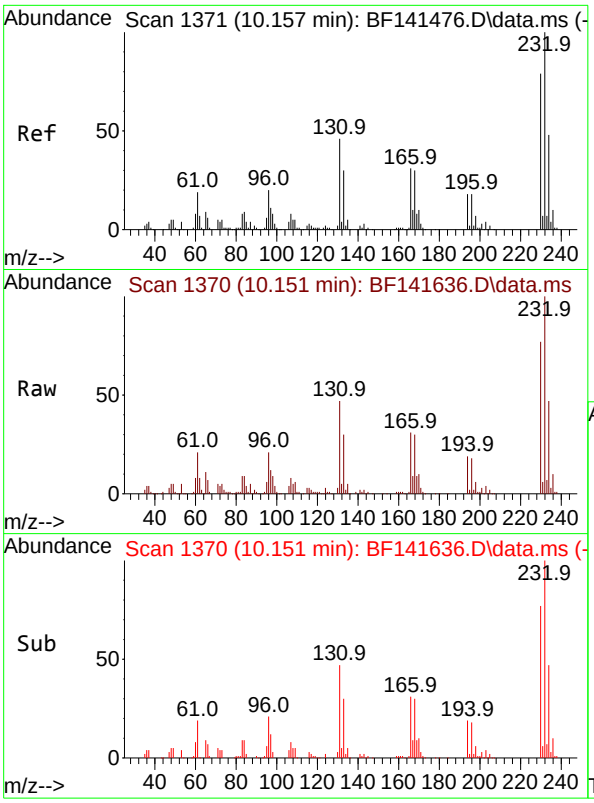


#58
Fluorene
Concen: 44.481 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:166 Resp: 546127

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.2	117.2
167	13.5	10.7	16.1



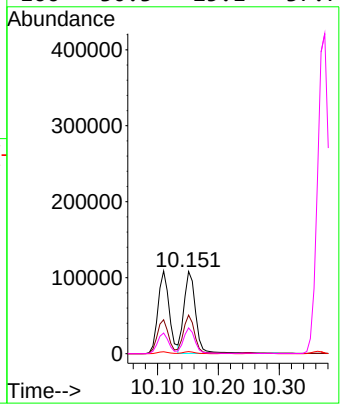


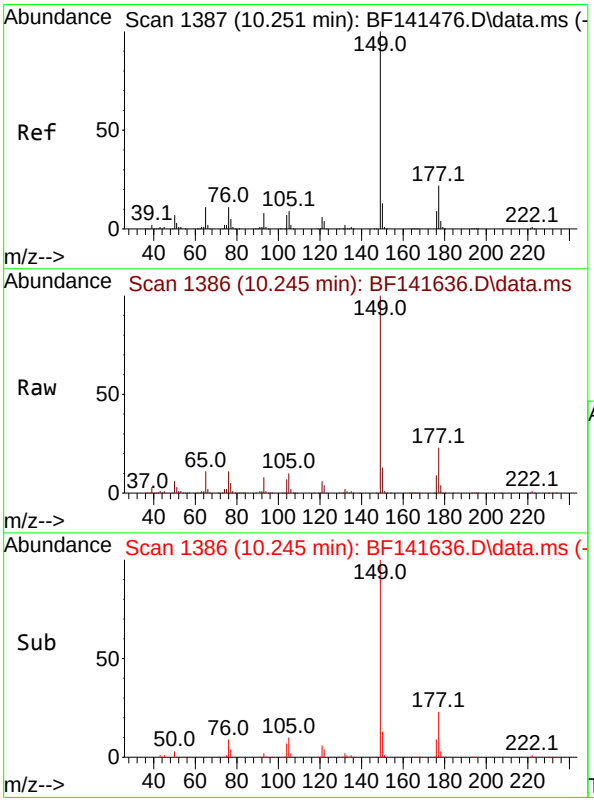
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.667 ng
RT: 10.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:232 Resp: 143768

Ion	Ratio	Lower	Upper
232	100		
131	46.5	39.2	58.8
130	2.5	2.1	3.1
166	30.3	25.1	37.7

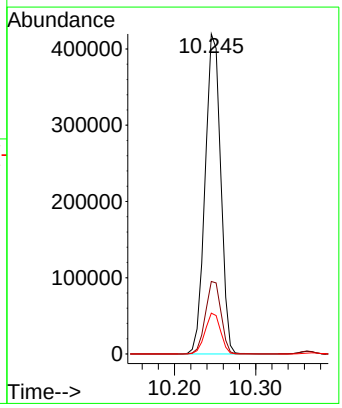


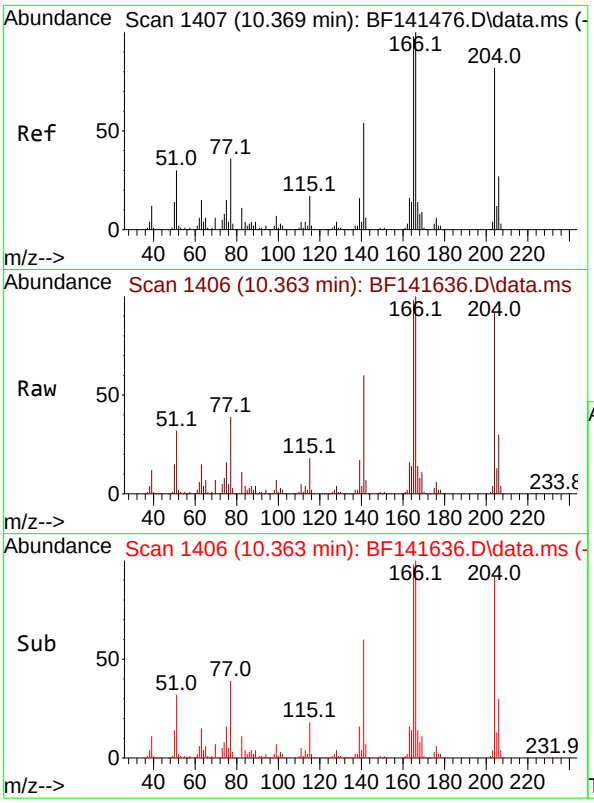


#60
Diethylphthalate
Concen: 44.254 ng
RT: 10.245 min Scan# 1386
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 557799

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.8	26.6
150	12.8	10.1	15.1



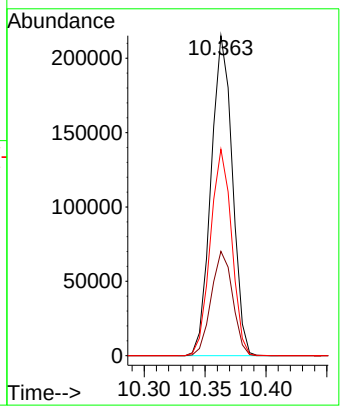


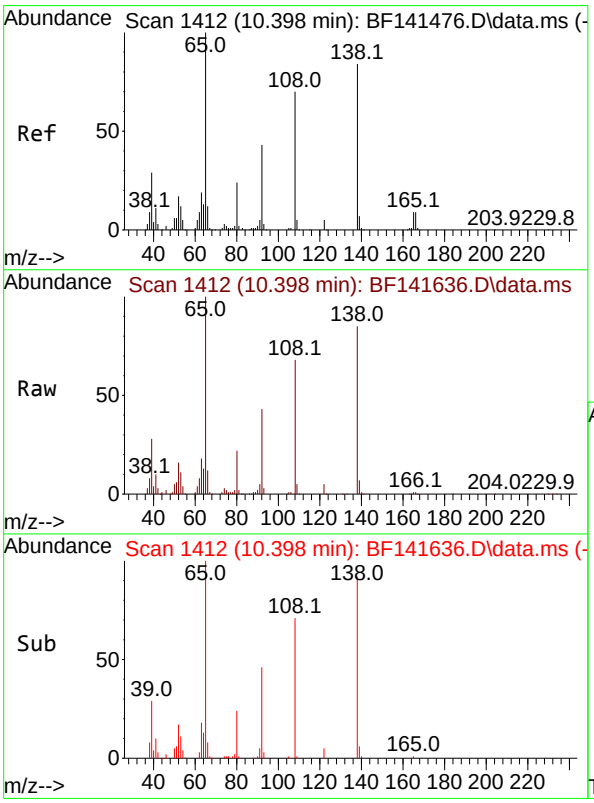
#61
4-Chlorophenyl-phenylether
Concen: 44.392 ng
RT: 10.363 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:204 Resp: 262210

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.6	40.0
141	64.5	51.9	77.9

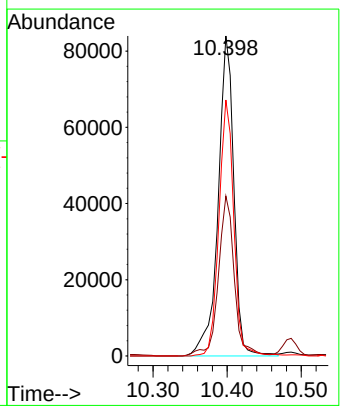


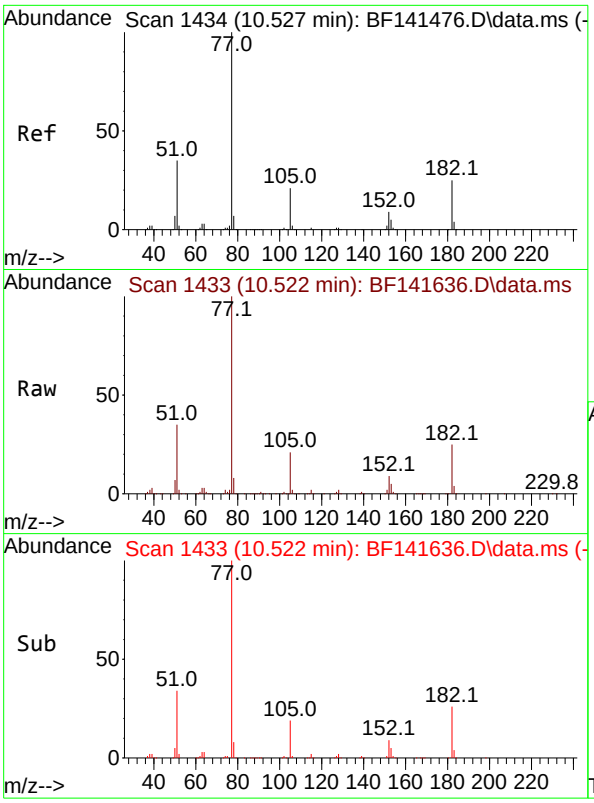


#62
4-Nitroaniline
Concen: 40.505 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.017 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:138 Resp: 123974

Ion	Ratio	Lower	Upper
138	100		
92	49.9	31.3	71.3
108	80.0	63.7	103.7



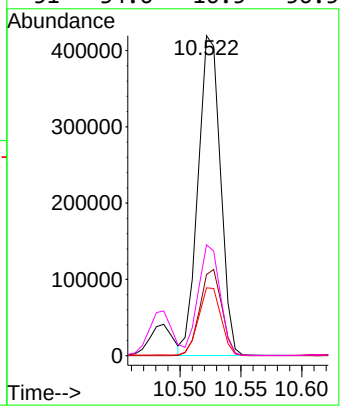


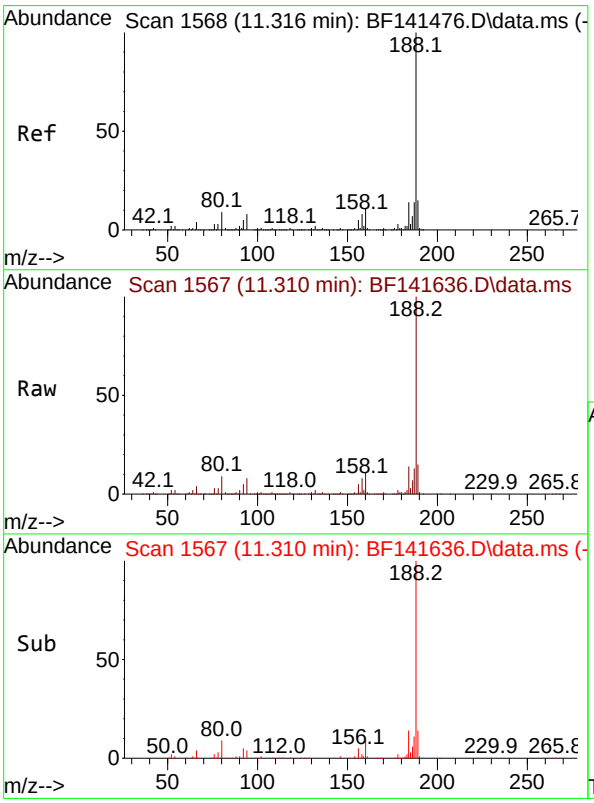
#63
Azobenzene
Concen: 42.854 ng
RT: 10.522 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion: 77 Resp: 536984

Ion	Ratio	Lower	Upper
77	100		
182	25.4	4.7	44.7
105	21.2	0.4	40.4
51	34.6	16.5	56.5

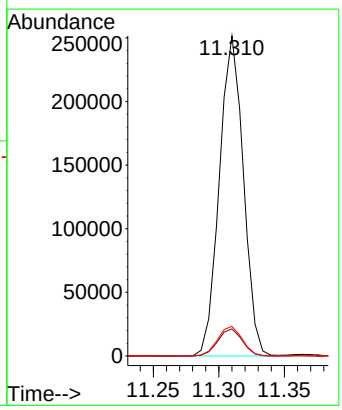


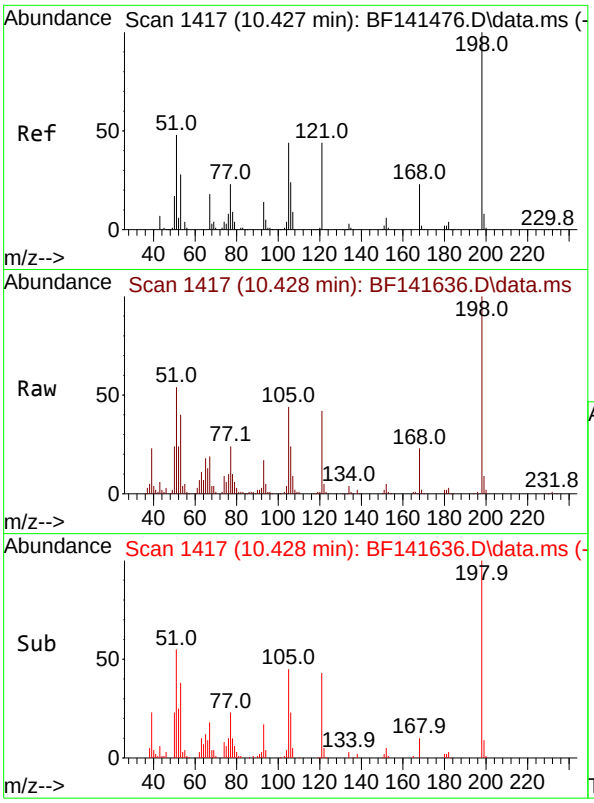


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:188 Resp: 320276

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.6	10.0
80	9.3	7.3	10.9



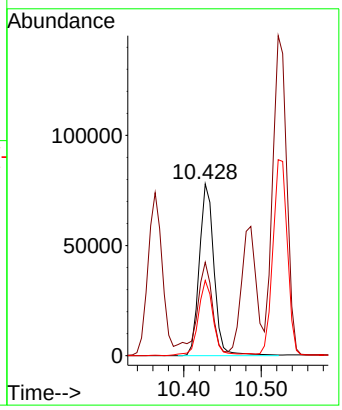


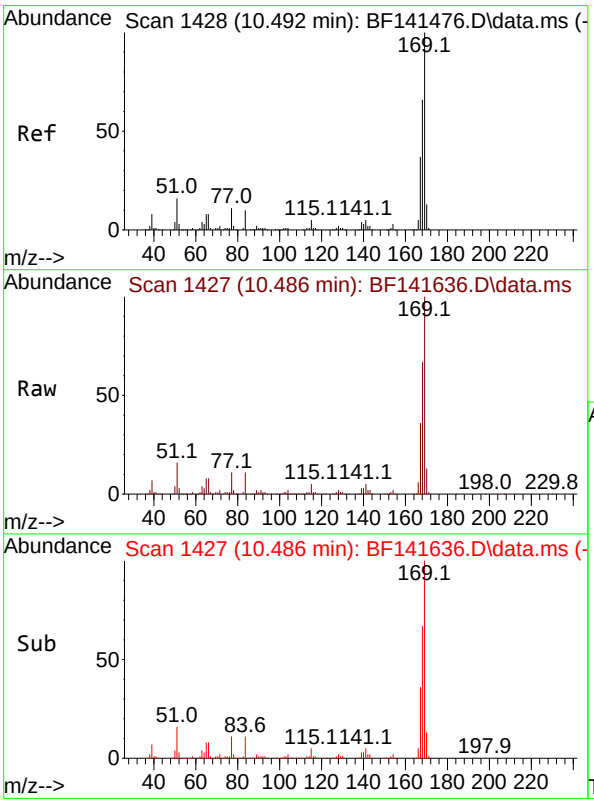
#65
4,6-Dinitro-2-methylphenol
Concen: 46.096 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:198 Resp: 102555

Ion	Ratio	Lower	Upper
198	100		
51	54.4	37.4	77.4
105	43.8	25.2	65.2

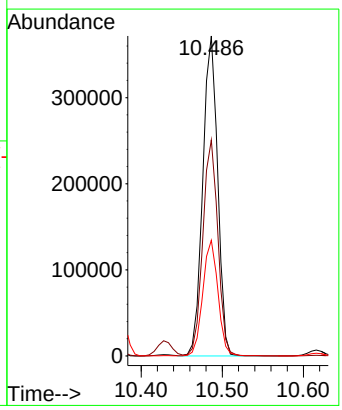


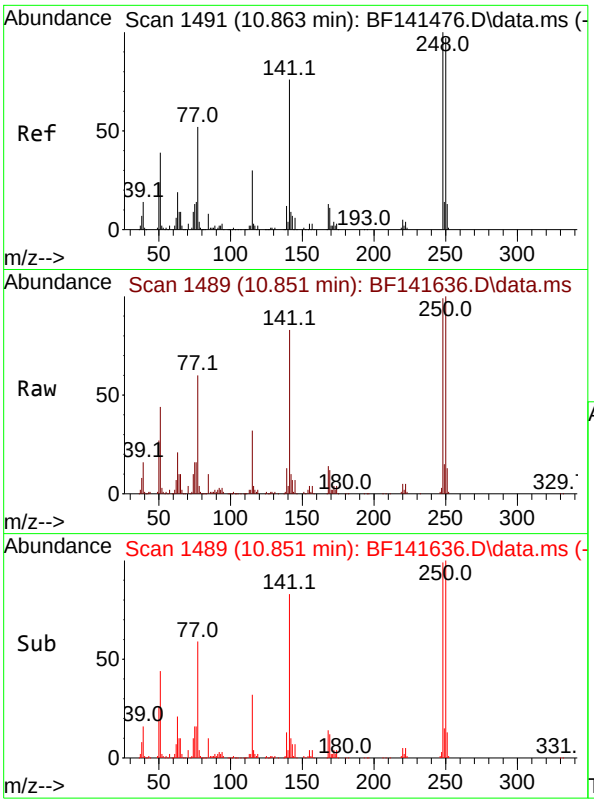


#66
n-Nitrosodiphenylamine
Concen: 46.072 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:169 Resp: 472341

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.3	79.9
167	36.1	29.4	44.2



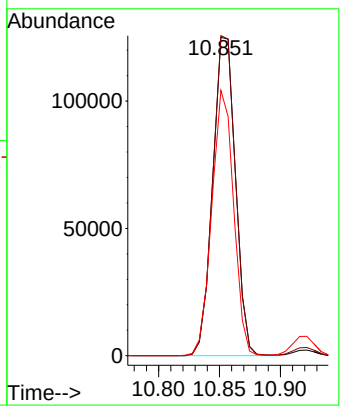


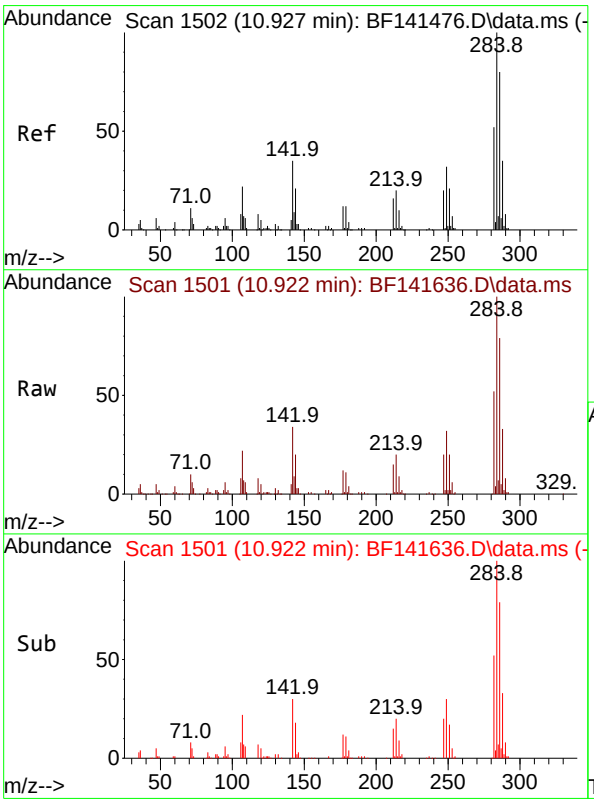
#67
4-Bromophenyl-phenylether
Concen: 45.402 ng
RT: 10.851 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:248 Resp: 162515

Ion	Ratio	Lower	Upper
248	100		
250	100.5	77.8	116.6
141	83.3	60.6	90.8

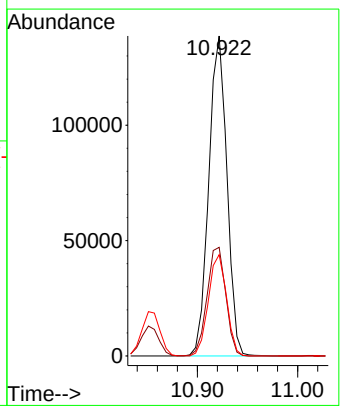


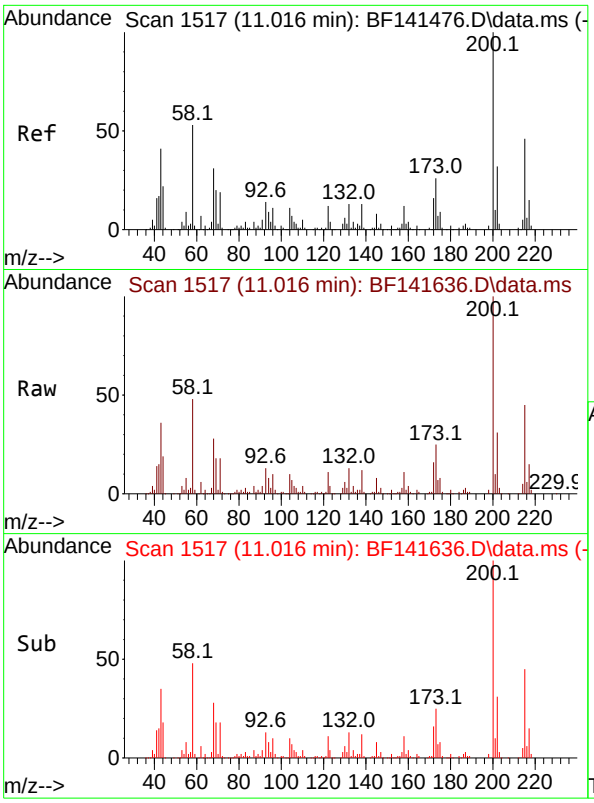


#68
Hexachlorobenzene
Concen: 47.365 ng
RT: 10.922 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:284 Resp: 174584

Ion	Ratio	Lower	Upper
284	100		
142	33.9	28.0	42.0
249	31.7	25.8	38.8



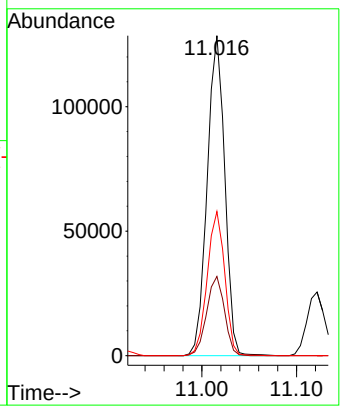


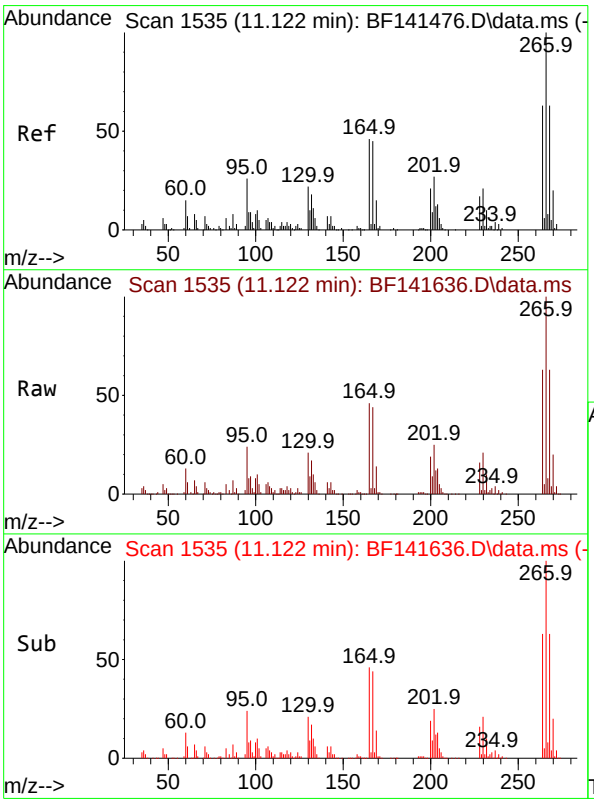
#69
Atrazine
Concen: 53.702 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:200 Resp: 165172

Ion	Ratio	Lower	Upper
200	100		
173	24.8	5.9	45.9
215	45.1	25.9	65.9

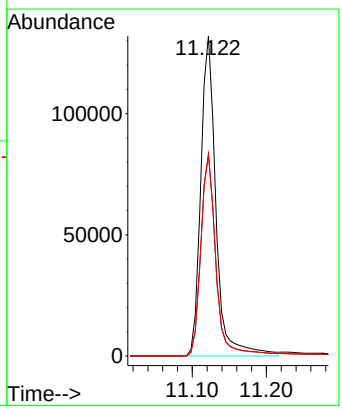


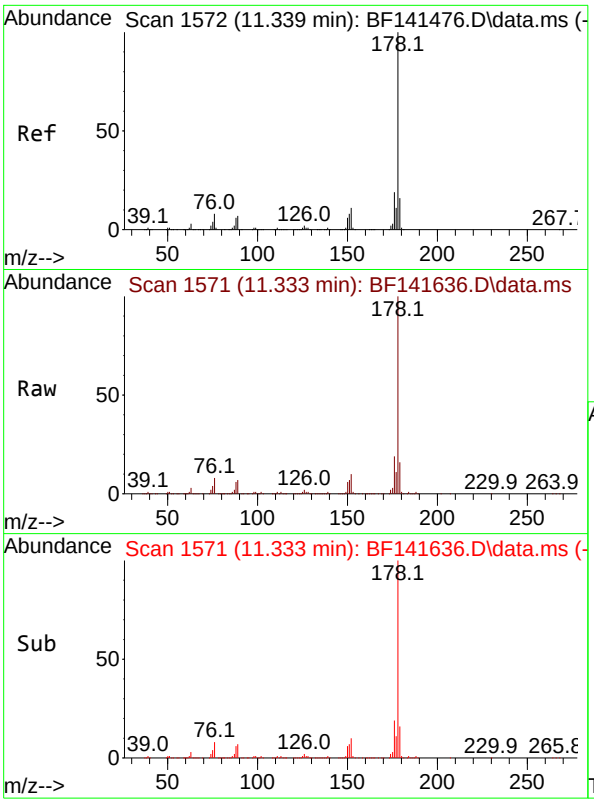


#70
Pentachlorophenol
Concen: 79.874 ng
RT: 11.122 min Scan# 1535
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:266 Resp: 188251

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.1	75.1
264	62.8	50.1	75.1



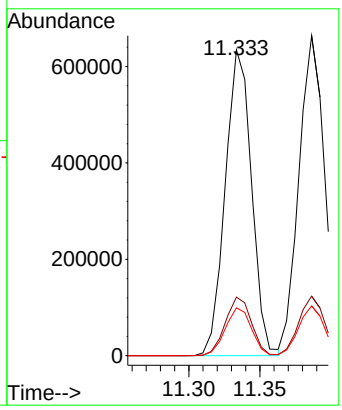


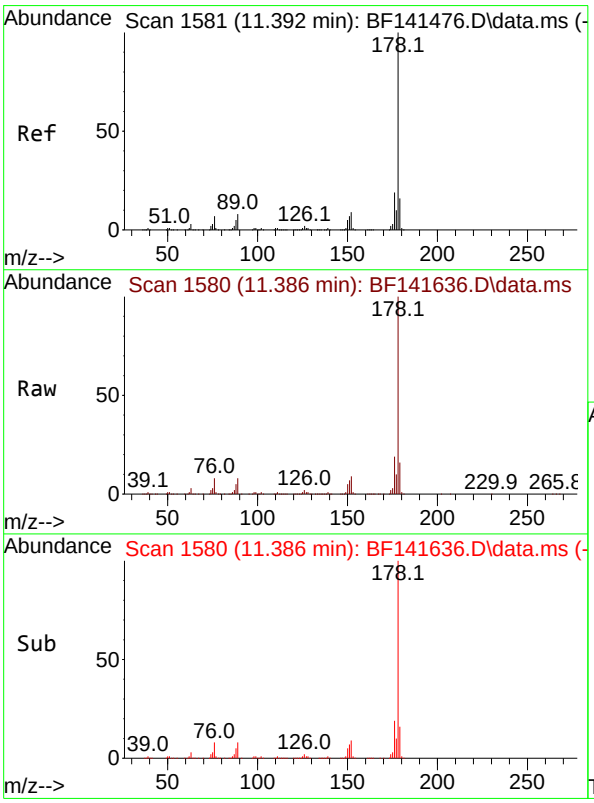
#71
Phenanthrene
Concen: 46.397 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:178 Resp: 817975

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.7	12.4	18.6

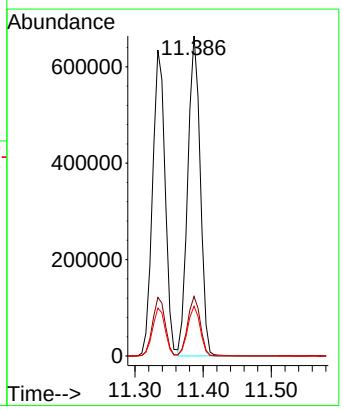


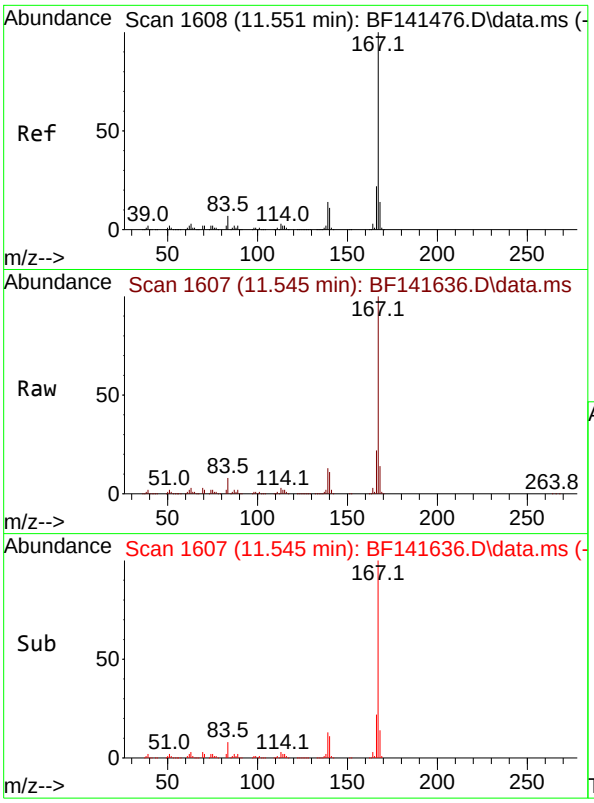


#72
Anthracene
Concen: 47.172 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:178 Resp: 835984

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.5	12.4	18.6



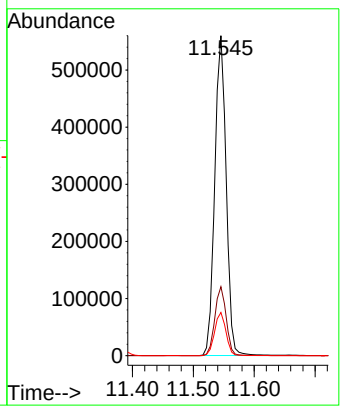


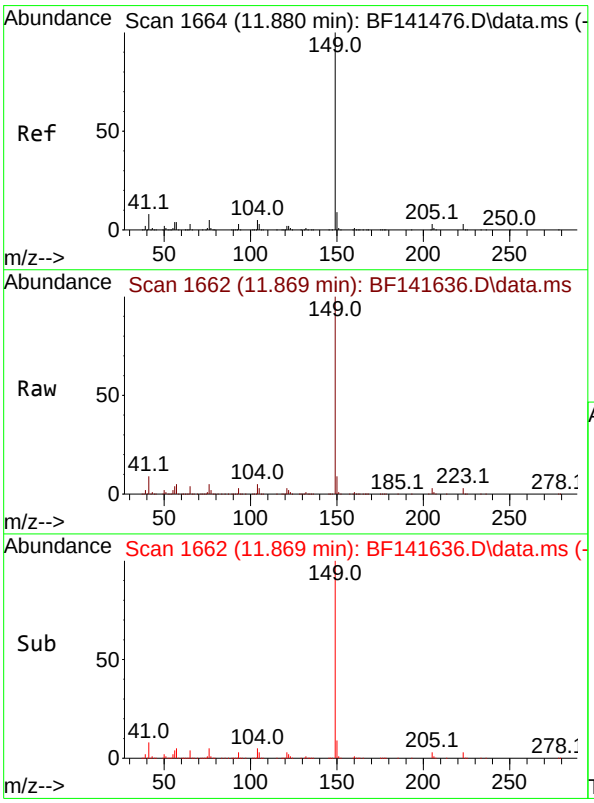
#73
Carbazole
Concen: 45.623 ng
RT: 11.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:167 Resp: 727521

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.4	26.2
139	13.5	10.9	16.3

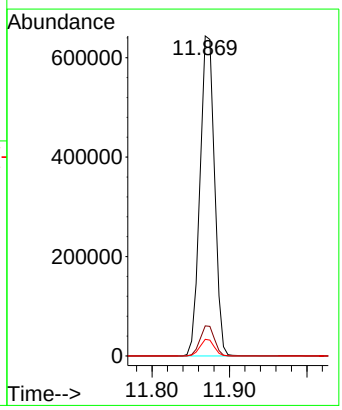


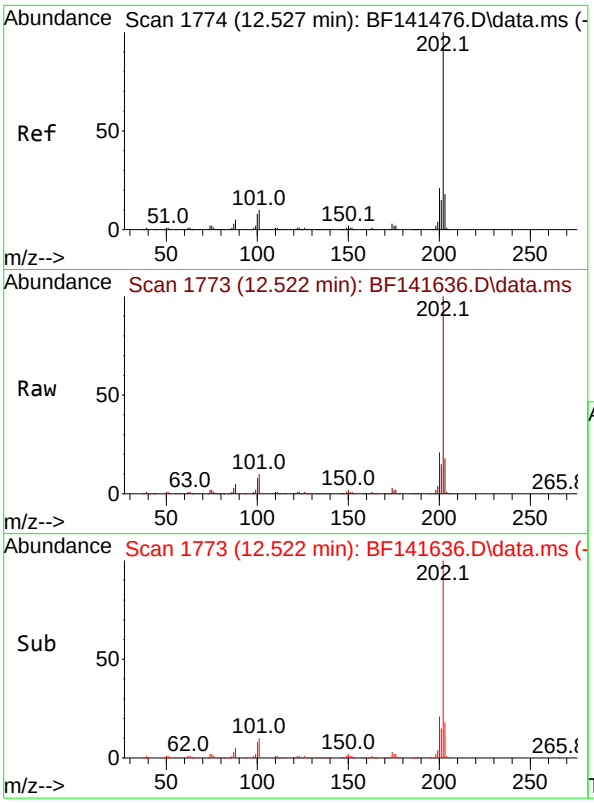


#74
Di-n-butylphthalate
Concen: 45.613 ng
RT: 11.869 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 839845

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	5.2	4.2	6.2



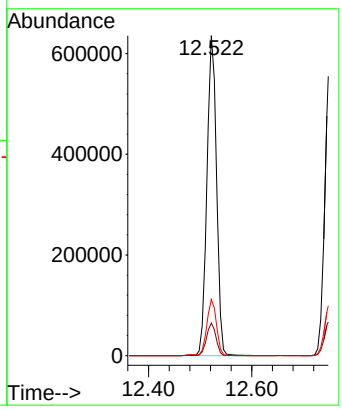


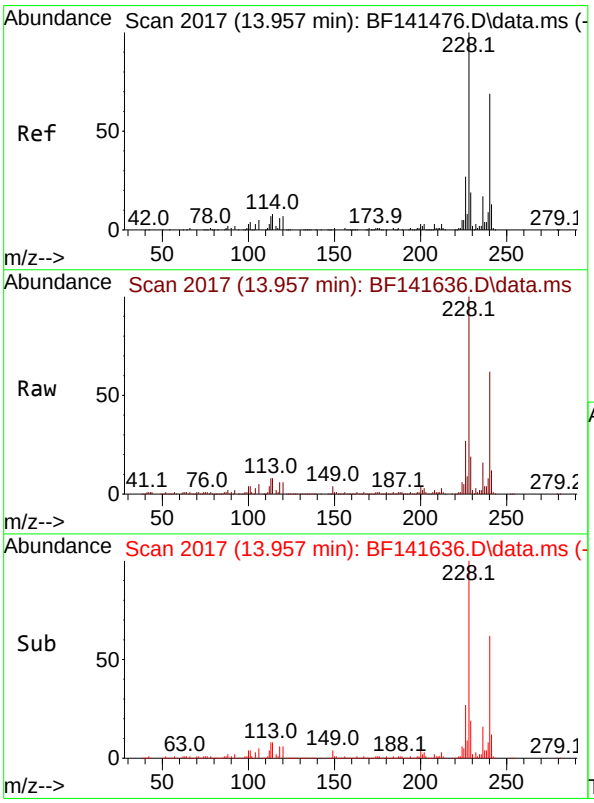
#75
Fluoranthene
Concen: 43.888 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:202 Resp: 820316

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.5	0.0	37.6

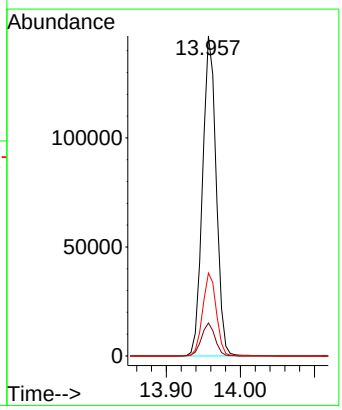


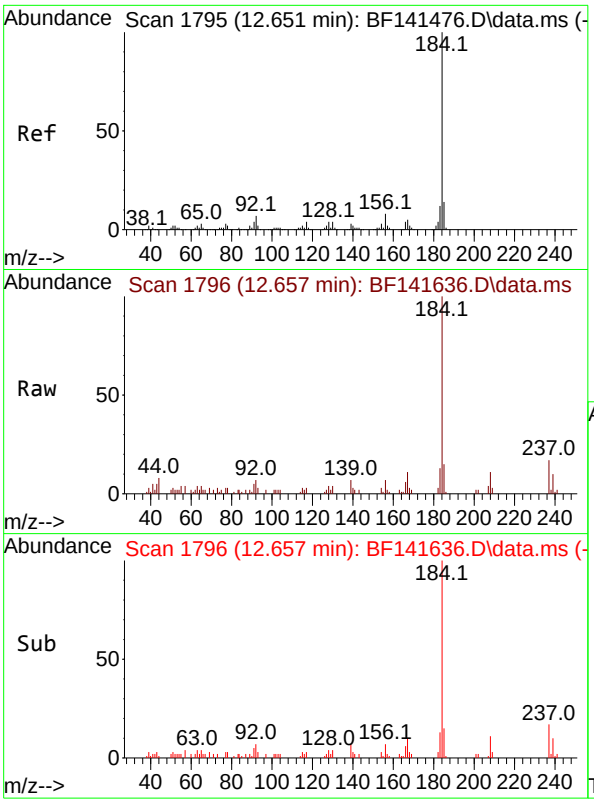


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:240 Resp: 187767

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.0	12.0
236	25.9	19.8	29.8



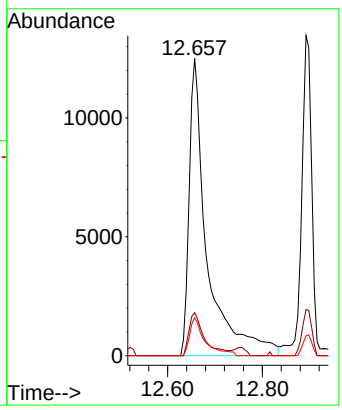


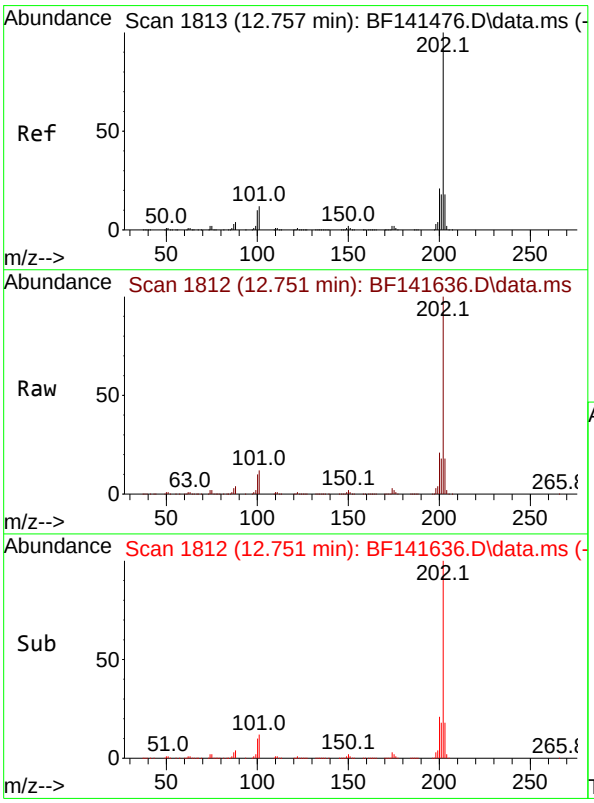
#77
Benzidine
Concen: 7.946 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:184 Resp: 32906

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.3	16.9
183	12.8	9.3	13.9

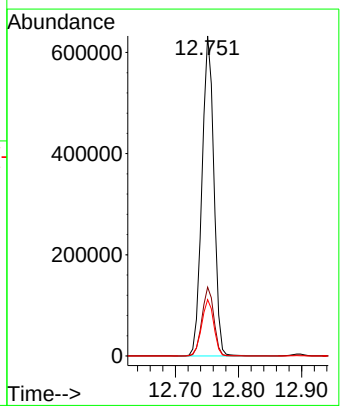


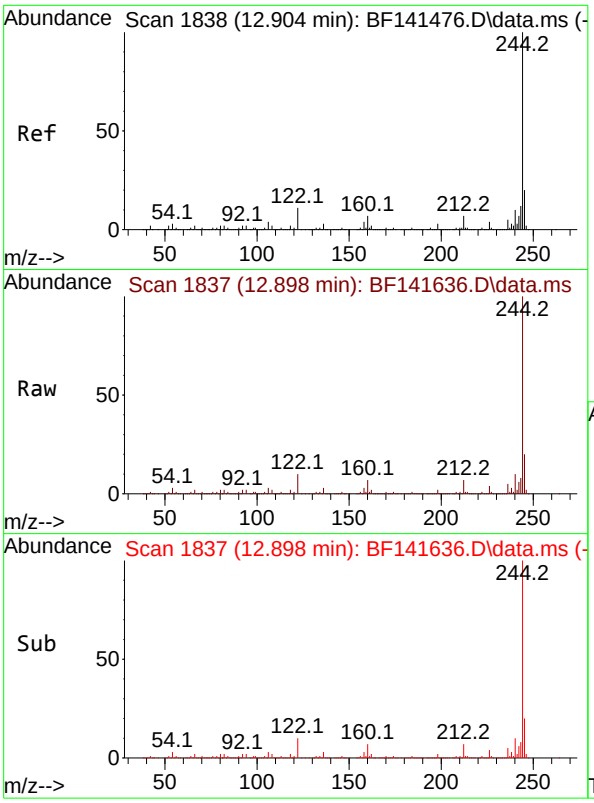


#78
Pyrene
Concen: 52.005 ng
RT: 12.751 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:202 Resp: 831249

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.4
203	17.6	14.3	21.5



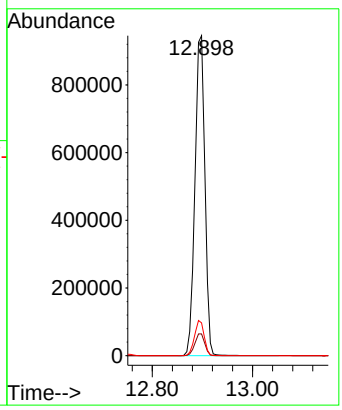


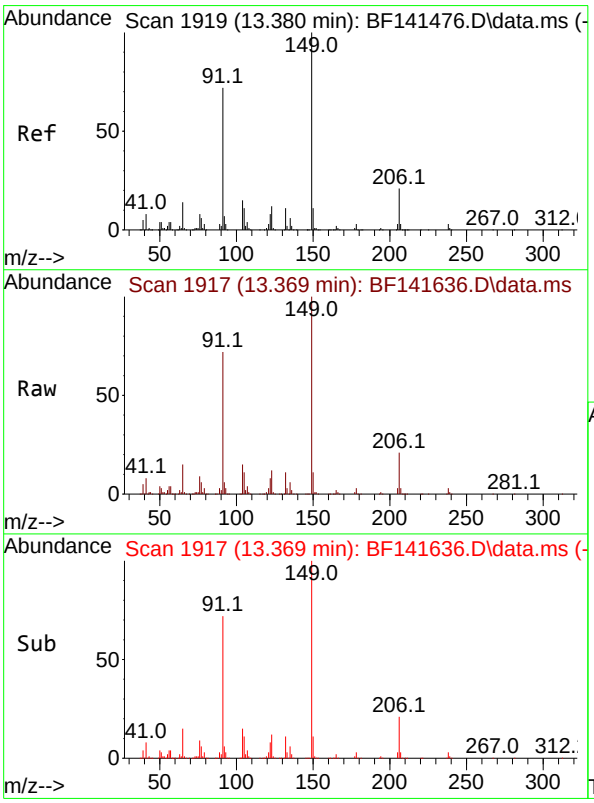
#79
Terphenyl-d14
Concen: 116.623 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:244 Resp: 1297134

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	10.2	8.4	12.6

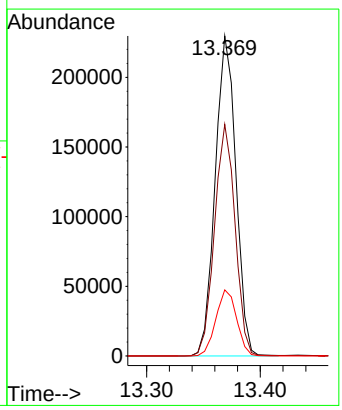


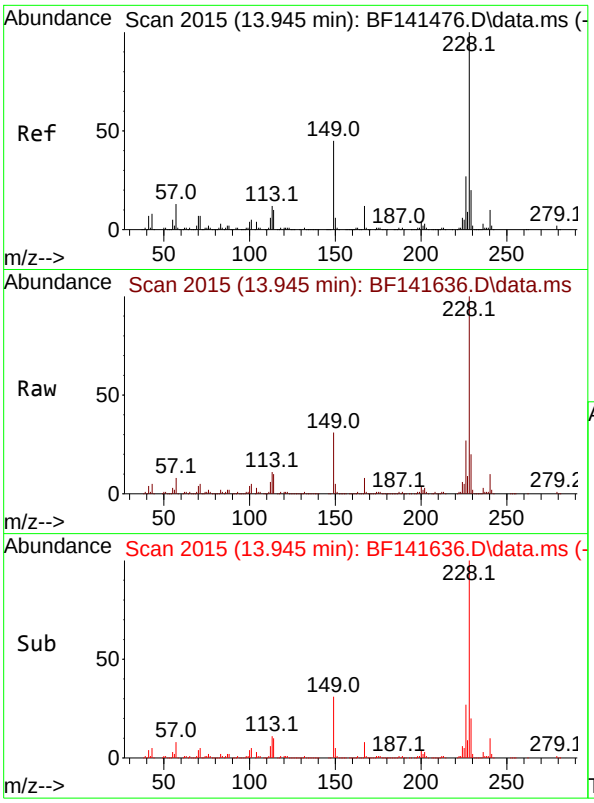


#80
Butylbenzylphthalate
Concen: 52.645 ng
RT: 13.369 min Scan# 1917
Delta R.T. -0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 291462

Ion	Ratio	Lower	Upper
149	100		
91	72.4	57.8	86.8
206	20.7	16.7	25.1



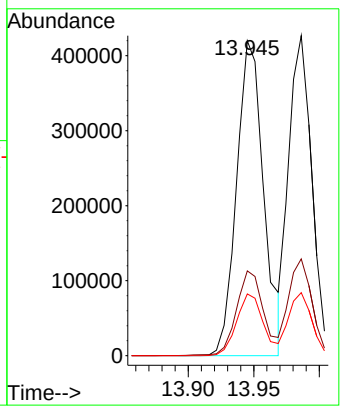


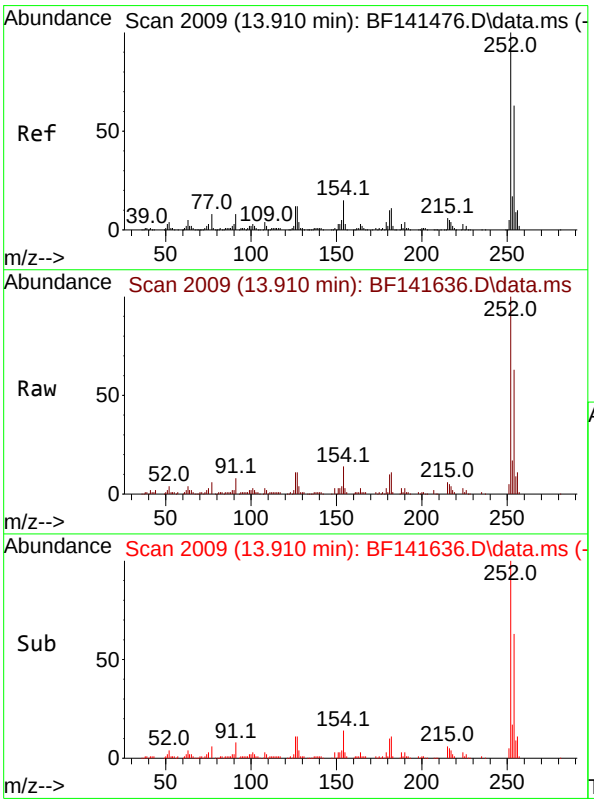
#81
Benzo(a)anthracene
Concen: 48.352 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:228 Resp: 603503

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.6	15.8	23.6

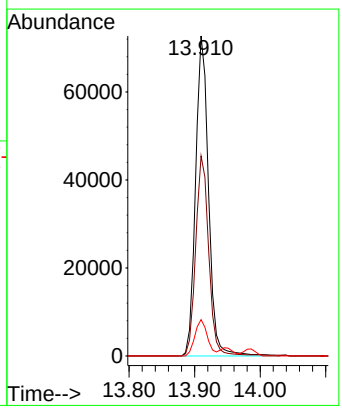


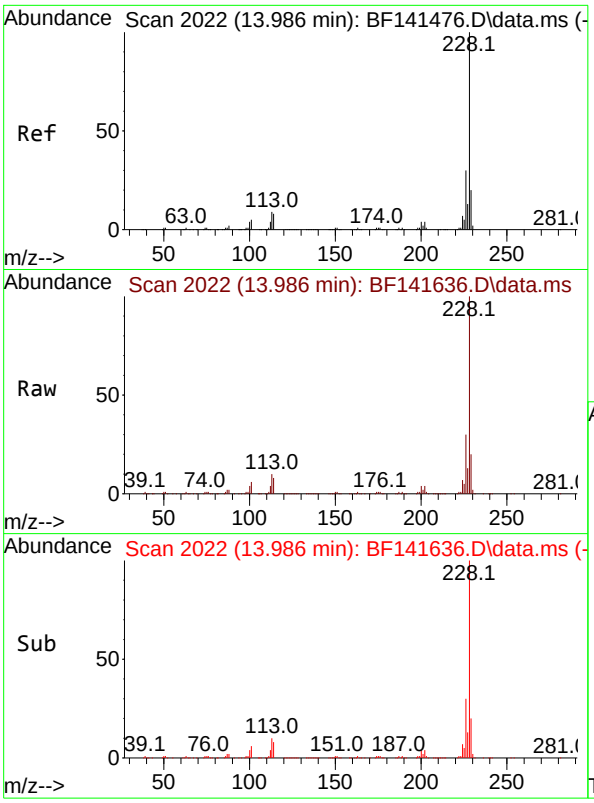


#82
3,3'-Dichlorobenzidine
Concen: 28.075 ng
RT: 13.910 min Scan# 2009
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 100379

Ion	Ratio	Lower	Upper
252	100		
254	62.5	50.6	76.0
126	11.4	9.3	13.9



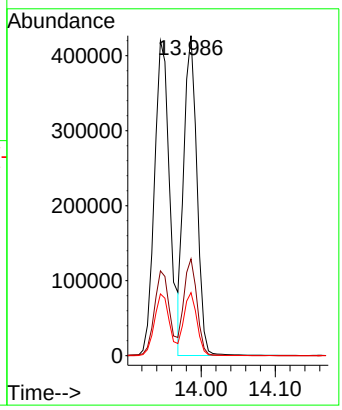


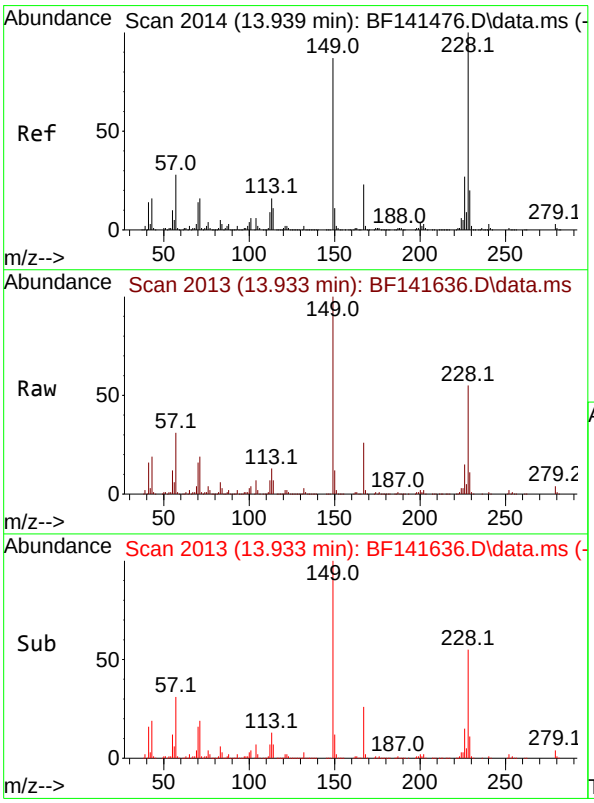
#83
Chrysene
Concen: 45.600 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:228 Resp: 525534

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.0	36.0
229	19.7	15.7	23.5

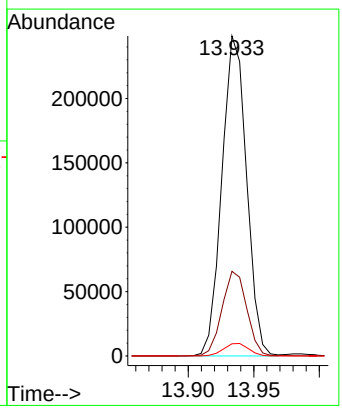


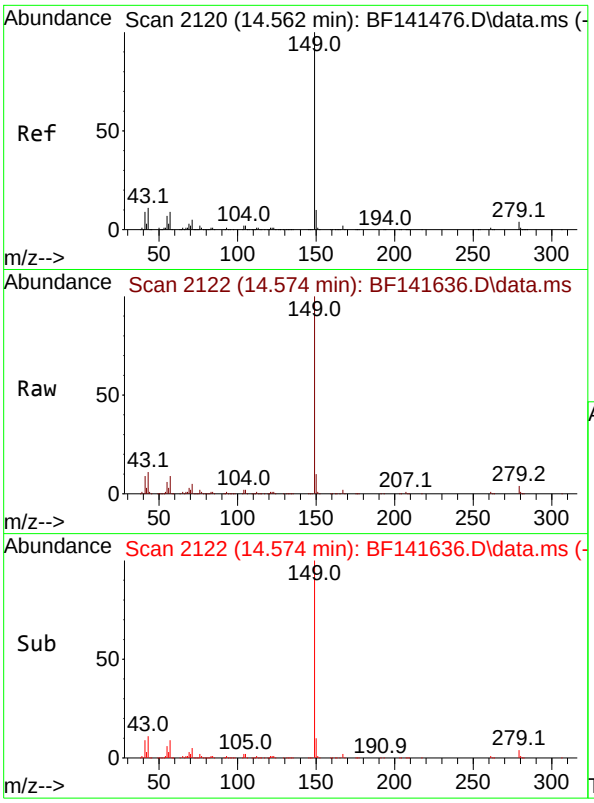


#84
Bis(2-ethylhexyl)phthalate
Concen: 52.076 ng
RT: 13.933 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:149 Resp: 325174

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.4	32.0
279	3.8	3.1	4.7



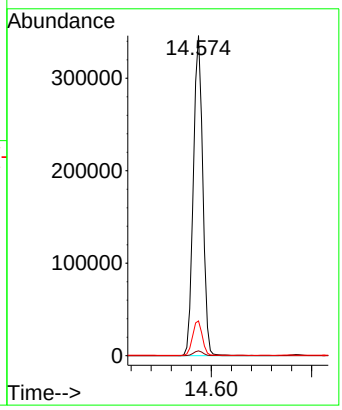


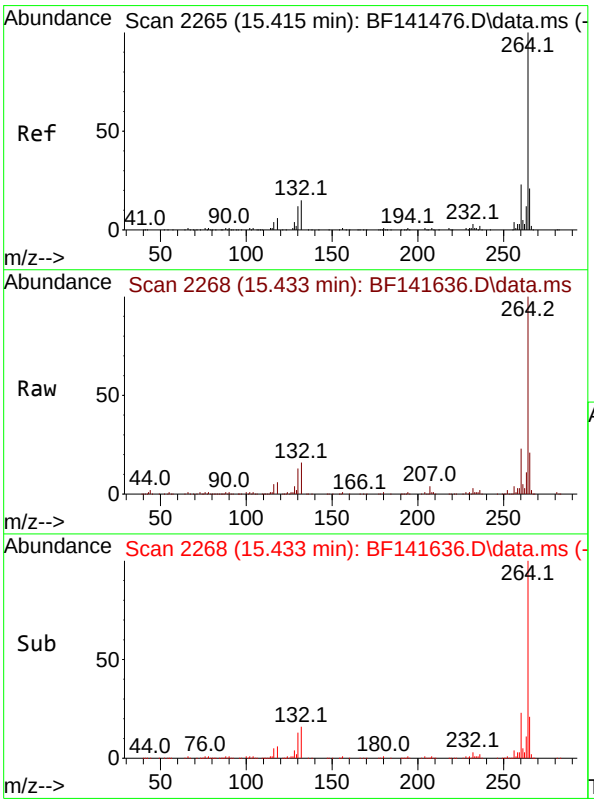
#85
Di-n-octyl phthalate
Concen: 50.594 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:149 Resp: 450683

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.2	9.5	14.3

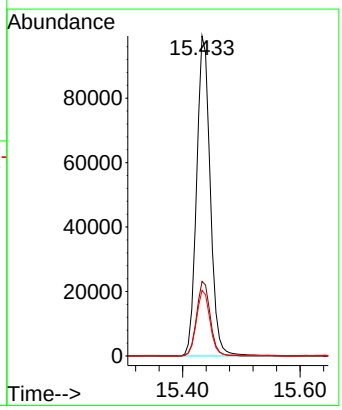


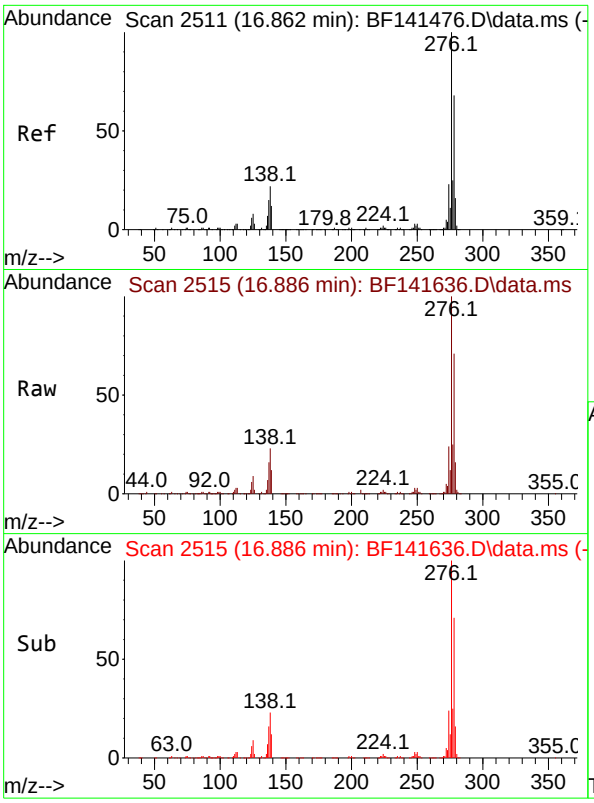


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. 0.018 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:264 Resp: 159211

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.6	28.0
265	20.5	17.0	25.4



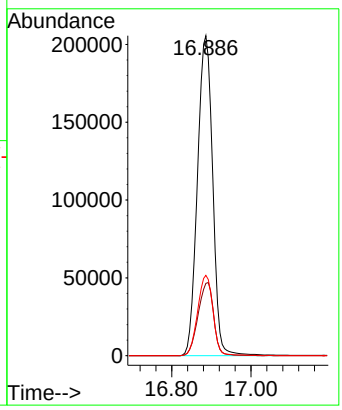


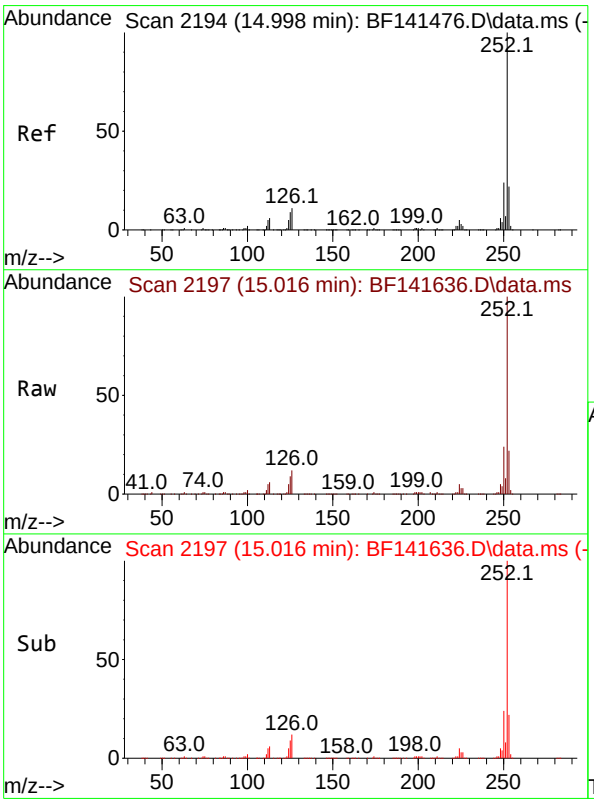
#87
Indeno(1,2,3-cd)pyrene
Concen: 55.817 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:276 Resp: 549103

Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.0	27.0
277	25.2	20.4	30.6

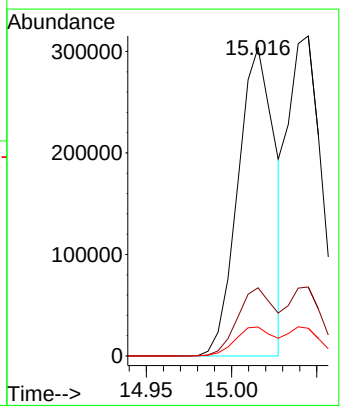


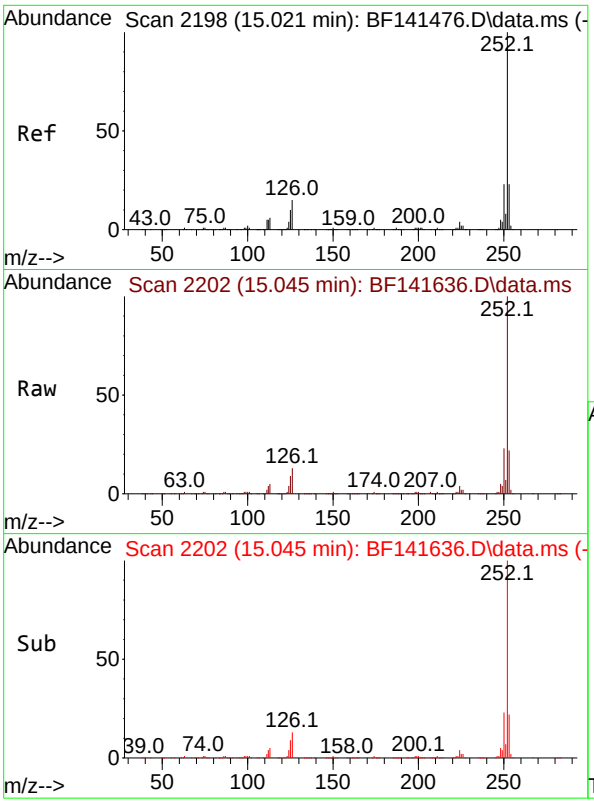


#88
Benzo(b)fluoranthene
Concen: 42.686 ng
RT: 15.016 min Scan# 2197
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 456328

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.4	7.0	10.6



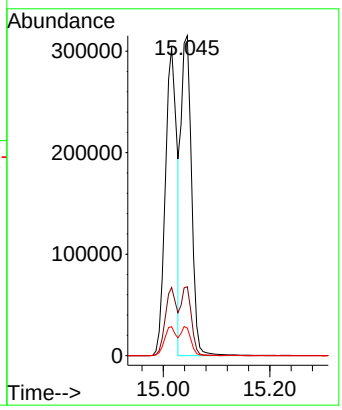


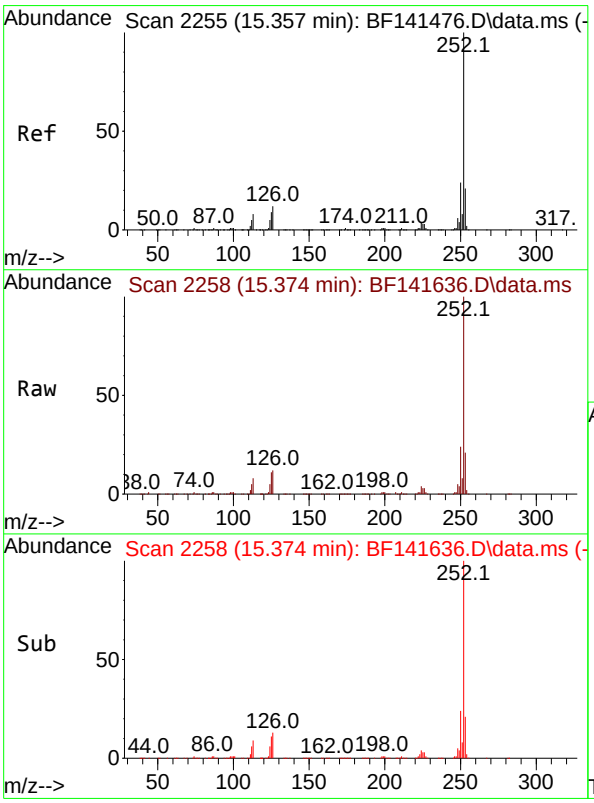
#89
Benzo(k)fluoranthene
Concen: 47.270 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:252 Resp: 431507

Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.0	27.0
125	8.6	7.4	11.0

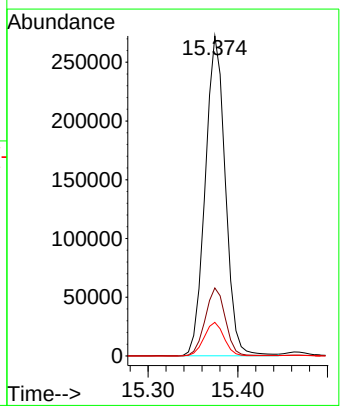


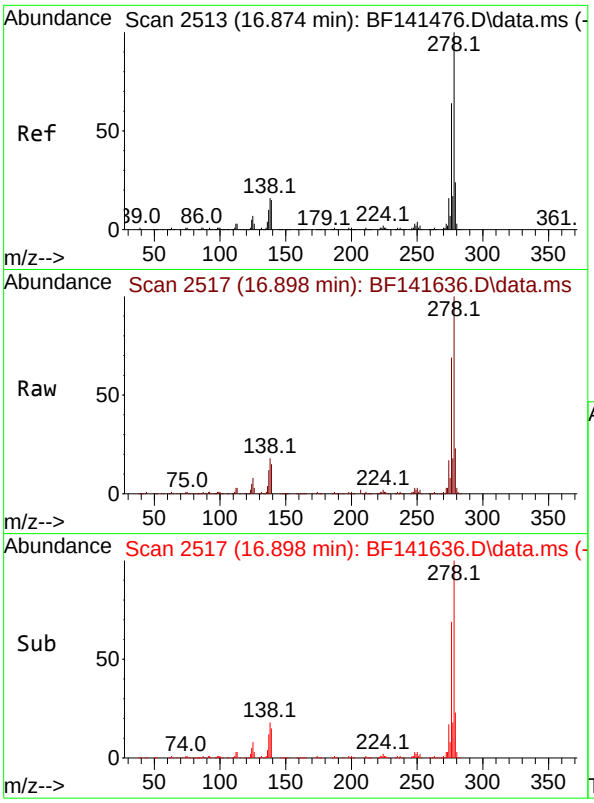


#90
Benzo(a)pyrene
Concen: 48.964 ng
RT: 15.374 min Scan# 2258
Delta R.T. 0.012 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:252 Resp: 423546

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.1	25.7
125	10.5	7.4	11.2



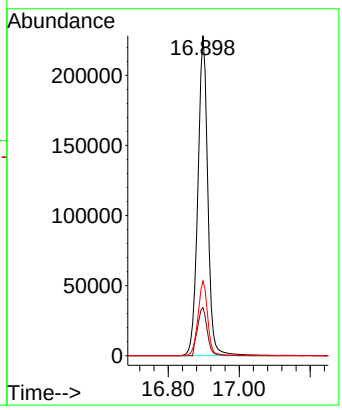


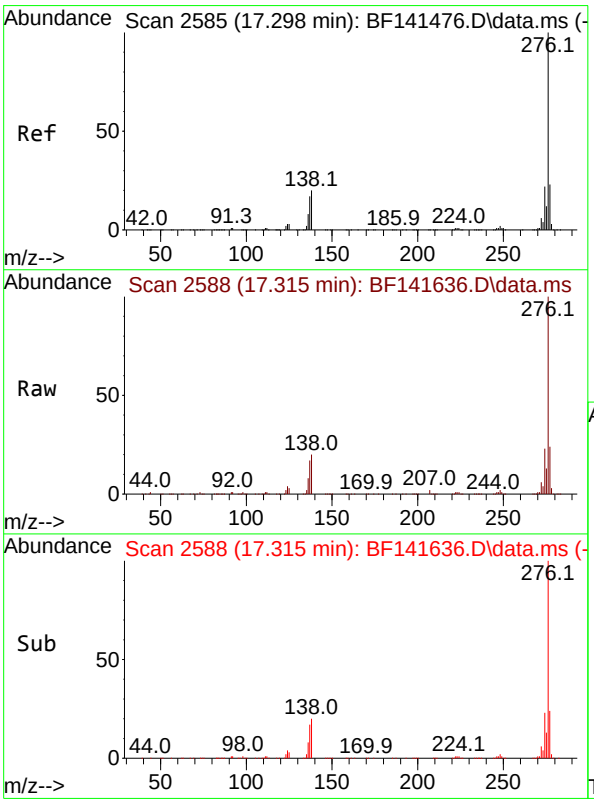
#91
Dibenzo(a,h)anthracene
Concen: 55.839 ng
RT: 16.898 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Instrument :
BNA_F
ClientSampleId :
CARBON-WATERMSD

Tgt Ion:278 Resp: 445100

Ion	Ratio	Lower	Upper
278	100		
139	15.0	11.8	17.6
279	23.3	19.1	28.7





#92
Benzo(g,h,i)perylene
Concen: 52.112 ng
RT: 17.315 min Scan# 2588
Delta R.T. 0.000 min
Lab File: BF141636.D
Acq: 14 Feb 2025 13:37

Tgt Ion:276 Resp: 434697

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	19.9	15.9	23.9

