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

Cover Page

Order ID : Q1487

Project ID : NYSDOT Two Bronx River Parkway Bridges

Client : JPCL Engineering

Lab Sample Number	Client Sample Number
Q1487-01	DN-B-42

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

Signature : _____

Date: 3/7/2025

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 #: **Q1487**

	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: **PRADIP PRAJAPATI** **Date:** **03/07/2025**

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

LAB CHRONICLE

OrderID:	Q1487	**OrderDate:**	3/4/2025 3:33:00 PM
Client:	JPCL Engineering	**Project:**	NYSDOT Two Bronx River Parkway Bridges
Contact:	Paul Rotondi	**Location:**	I11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1487-01	**DN-B-42**	**SOIL**			**03/04/25**			**03/04/25**
			SVOC-TCL BNA -20	8270E		03/05/25	03/05/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1487

Client: JPCL Engineering

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**DN-B-42**								
Q1487-01	DN-B-42	SOIL	9-Octadecenamide, (Z)-	*	140.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Benzophenone	*	240.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Butane, 2-methoxy-2-methyl-	*	1,400.000	JB	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Decane, 5-propyl-	*	330.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Dodecane, 2-methyl-6-propyl-	*	370.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Eicosane	*	320.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Heneicosane	*	230.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Heptacosane	*	180.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Hexadecane	*	390.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Hexadecane, 2,6,10,14-tetramethy	*	360.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Naphthalene, 1,4-dimethyl-	*	100.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Nonadecane	*	370.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Octacosane	*	120.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Octadecane, 1-iodo-	*	97.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Pentadecafluorooctanoic acid, oct	*	190.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Pentadecane, 2,6,10-trimethyl-	*	1,000.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Tetracosane	*	490.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Tetradecane	*	210.000	J	0	0	ug/Kg
Q1487-01	DN-B-42	SOIL	Tridecane	*	310.000	J	0	0	ug/Kg
			Total Tics :		**7,047.00**				
			Total Concentration:		**7,047.00**				



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166984BL	PB166984BL	2-Fluorophenol	150	126	84		18	112
		Phenol-d6	150	119	79		15	107
		Nitrobenzene-d5	100	105	105		18	107
		2-Fluorobiphenyl	100	91.5	91		20	109
		2,4,6-Tribromophenol	150	167	111		10	116
		Terphenyl-d14	100	82.5	83		10	105
PB166984BS	PB166984BS	2-Fluorophenol	150	122	81		18	112
		Phenol-d6	150	116	77		15	107
		Nitrobenzene-d5	100	105	105		18	107
		2-Fluorobiphenyl	100	91.3	91		20	109
		2,4,6-Tribromophenol	150	166	110		10	116
		Terphenyl-d14	100	94.9	95		10	105
Q1487-01	DN-B-42	2-Fluorophenol	150	117	78		18	112
		Phenol-d6	150	112	75		15	107
		Nitrobenzene-d5	100	98.1	98		18	107
		2-Fluorobiphenyl	100	81.4	81		20	109
		2,4,6-Tribromophenol	150	119	79		10	116
		Terphenyl-d14	100	58.5	59		10	105
Q1487-01MS	DN-B-42MS	2-Fluorophenol	150	107	71		18	112
		Phenol-d6	150	102	68		15	107
		Nitrobenzene-d5	100	87.4	87		18	107
		2-Fluorobiphenyl	100	73.3	73		20	109
		2,4,6-Tribromophenol	150	113	76		10	116
		Terphenyl-d14	100	55.5	56		10	105
Q1487-01MSD	DN-B-42MSD	2-Fluorophenol	150	109	72		18	112
		Phenol-d6	150	104	70		15	107
		Nitrobenzene-d5	100	89.9	90		18	107
		2-Fluorobiphenyl	100	75.0	75		20	109
		2,4,6-Tribromophenol	150	117	78		10	116
		Terphenyl-d14	100	56.9	57		10	105

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.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MS		**Client Sample ID: DN-B-42MS**						**DataFile:**	**BF141844.D**		
Benzaldehyde	1900	0	850	ug/Kg	45				10	86	
Phenol	1900	0	1600	ug/Kg	84				67	126	
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84				54	125	
2-Chlorophenol	1900	0	1600	ug/Kg	84				79	107	
2-Methylphenol	1900	0	1600	ug/Kg	84				66	122	
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74				65	110	
Acetophenone	1900	0	1700	ug/Kg	89				75	111	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				66	104	
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74				59	119	
Hexachloroethane	1900	0	1600	ug/Kg	84				65	117	
Nitrobenzene	1900	0	1800	ug/Kg	95				70	119	
Isophorone	1900	0	1600	ug/Kg	84				76	122	
2-Nitrophenol	1900	0	1900	ug/Kg	100				54	145	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				44	135	
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79				68	112	
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84				72	118	
Naphthalene	1900	0	1600	ug/Kg	84				72	110	
4-Chloroaniline	1900	0	910	ug/Kg	48				10	91	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				66	114	
Caprolactam	1900	0	1900	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84				57	132	
2-Methylnaphthalene	1900	0	1500	ug/Kg	79				59	123	
Hexachlorocyclopentadiene	3800	0	4800	ug/Kg	126				10	175	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				72	117	
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95				72	117	
1,1-Biphenyl	1900	0	1800	ug/Kg	95				75	113	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				67	118	
2-Nitroaniline	1900	0	1900	ug/Kg	100				69	127	
Dimethylphthalate	1900	0	1600	ug/Kg	84				70	113	
Acenaphthylene	1900	0	1700	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100				70	125	
3-Nitroaniline	1900	0	1300	ug/Kg	68				30	99	
Acenaphthene	1900	0	1700	ug/Kg	89				70	121	
2,4-Dinitrophenol	3800	0	2700	ug/Kg	71				10	155	
4-Nitrophenol	3800	0	4200	ug/Kg	111				45	133	
Dibenzofuran	1900	0	1600	ug/Kg	84				72	110	
2,4-Dinitrotoluene	1900	0	2000	ug/Kg	105				55	128	
Diethylphthalate	1900	0	1500	ug/Kg	79				70	112	
4-Chlorophenyl-phenylether	1900	0	1500	ug/Kg	79				71	108	
Fluorene	1900	0	1600	ug/Kg	84				68	116	
4-Nitroaniline	1900	0	1900	ug/Kg	100				55	120	
4,6-Dinitro-2-methylphenol	1900	0	1500	ug/Kg	79				10	160	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				73	118	
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89				65	121	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				67	118	
Atrazine	1900	0	2400	ug/Kg	126				79	127	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84				47	128	
Phenanthrene	1900	0	1700	ug/Kg	89				52	128	
Anthracene	1900	0	1700	ug/Kg	89				62	124	
Carbazole	1900	0	1700	ug/Kg	89				59	119	
Di-n-butylphthalate	1900	0	1500	ug/Kg	79				69	118	
Fluoranthene	1900	0	1500	ug/Kg	79				44	125	
Pyrene	1900	0	1400	ug/Kg	74				26	142	
Butylbenzylphthalate	1900	0	1400	ug/Kg	74				64	126	
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95				33	116	
Benzo(a)anthracene	1900	0	1700	ug/Kg	89				71	114	
Chrysene	1900	0	1600	ug/Kg	84				57	121	
bis(2-Ethylhexyl)phthalate	1900	0	1400	ug/Kg	74				42	169	
Di-n-octyl phthalate	1900	0	1700	ug/Kg	89				23	175	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				67	121	
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79				57	134	
Benzo(a)pyrene	1900	0	1700	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68				40	129	
Dibenz(a,h)anthracene	1900	0	1300	ug/Kg	68				43	123	
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58				24	125	
1,2,4,5-Tetrachlorobenzene	1900	0	1800	ug/Kg	95				69	124	
1,4-Dioxane	1900	0	1600	ug/Kg	84				46	112	
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89				69	112	

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.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1487-01MSD		**Client Sample ID: DN-B-42MSD**						**DataFile: BF141845.D**			
Benzaldehyde	1900	0	860	ug/Kg	45	0			10	86	20
Phenol	1900	0	1700	ug/Kg	89	6			67	126	20
bis(2-Chloroethyl)ether	1900	0	1600	ug/Kg	84	0			54	125	20
2-Chlorophenol	1900	0	1700	ug/Kg	89	6			79	107	20
2-Methylphenol	1900	0	1600	ug/Kg	84	0			66	122	20
2,2-oxybis(1-Chloropropane)	1900	0	1400	ug/Kg	74	0			65	110	20
Acetophenone	1900	0	1800	ug/Kg	95	7			75	111	20
3+4-Methylphenols	1900	0	1600	ug/Kg	84	0			66	104	20
N-Nitroso-di-n-propylamine	1900	0	1400	ug/Kg	74	0			59	119	20
Hexachloroethane	1900	0	1600	ug/Kg	84	0			65	117	20
Nitrobenzene	1900	0	1800	ug/Kg	95	0			70	119	20
Isophorone	1900	0	1600	ug/Kg	84	0			76	122	20
2-Nitrophenol	1900	0	1900	ug/Kg	100	0			54	145	20
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105	0			44	135	20
bis(2-Chloroethoxy)methane	1900	0	1500	ug/Kg	79	0			68	112	20
2,4-Dichlorophenol	1900	0	1600	ug/Kg	84	0			72	118	20
Naphthalene	1900	0	1600	ug/Kg	84	0			72	110	20
4-Chloroaniline	1900	0	950	ug/Kg	50	4			10	91	20
Hexachlorobutadiene	1900	0	1600	ug/Kg	84	0			66	114	20
Caprolactam	1900	0	1900	ug/Kg	100	0			51	134	20
4-Chloro-3-methylphenol	1900	0	1600	ug/Kg	84	0			57	132	20
2-Methylnaphthalene	1900	0	1500	ug/Kg	79	0			59	123	20
Hexachlorocyclopentadiene	3800	0	4900	ug/Kg	129	2			10	175	20
2,4,6-Trichlorophenol	1900	0	1800	ug/Kg	95	7			72	117	20
2,4,5-Trichlorophenol	1900	0	1800	ug/Kg	95	0			72	117	20
1,1-Biphenyl	1900	0	1900	ug/Kg	100	5			75	113	20
2-Chloronaphthalene	1900	0	1700	ug/Kg	89	0			67	118	20
2-Nitroaniline	1900	0	2000	ug/Kg	105	5			69	127	20
Dimethylphthalate	1900	0	1600	ug/Kg	84	0			70	113	20
Acenaphthylene	1900	0	1800	ug/Kg	95	7			79	118	20
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100	0			70	125	20
3-Nitroaniline	1900	0	1400	ug/Kg	74	8			30	99	20
Acenaphthene	1900	0	1800	ug/Kg	95	7			70	121	20
2,4-Dinitrophenol	3800	0	2800	ug/Kg	74	4			10	155	20
4-Nitrophenol	3800	0	4300	ug/Kg	113	2			45	133	20
Dibenzofuran	1900	0	1600	ug/Kg	84	0			72	110	20
2,4-Dinitrotoluene	1900	0	2100	ug/Kg	111	6			55	128	20
Diethylphthalate	1900	0	1500	ug/Kg	79	0			70	112	20
4-Chlorophenyl-phenylether	1900	0	1600	ug/Kg	84	6			71	108	20
Fluorene	1900	0	1600	ug/Kg	84	0			68	116	20
4-Nitroaniline	1900	0	2000	ug/Kg	105	5			55	120	20
4,6-Dinitro-2-methylphenol	1900	0	1600	ug/Kg	84	6			10	160	20
N-Nitrosodiphenylamine	1900	0	1700	ug/Kg	89	7			73	118	20
4-Bromophenyl-phenylether	1900	0	1700	ug/Kg	89	0			65	121	20
Hexachlorobenzene	1900	0	1700	ug/Kg	89	0			67	118	20
Atrazine	1900	0	2400	ug/Kg	126	0			79	127	20

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.: Q1487

Client: JPCL Engineering

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	3800	0	3200	ug/Kg	84	0			47	128	20
Phenanthrene	1900	0	1700	ug/Kg	89	0			52	128	20
Anthracene	1900	0	1700	ug/Kg	89	0			62	124	20
Carbazole	1900	0	1700	ug/Kg	89	0			59	119	20
Di-n-butylphthalate	1900	0	1500	ug/Kg	79	0			69	118	20
Fluoranthene	1900	0	1600	ug/Kg	84	6			44	125	20
Pyrene	1900	0	1400	ug/Kg	74	0			26	142	20
Butylbenzylphthalate	1900	0	1400	ug/Kg	74	0			64	126	20
3,3-Dichlorobenzidine	1900	0	1800	ug/Kg	95	0			33	116	20
Benzo(a)anthracene	1900	0	1700	ug/Kg	89	0			71	114	20
Chrysene	1900	0	1700	ug/Kg	89	6			57	121	20
bis(2-Ethylhexyl)phthalate	1900	0	1500	ug/Kg	79	7			42	169	20
Di-n-octyl phthalate	1900	0	1800	ug/Kg	95	7			23	175	20
Benzo(b)fluoranthene	1900	0	1700	ug/Kg	89	6			67	121	20
Benzo(k)fluoranthene	1900	0	1500	ug/Kg	79	0			57	134	20
Benzo(a)pyrene	1900	0	1800	ug/Kg	95	7			70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	1300	ug/Kg	68	0			40	129	20
Dibenz(a,h)anthracene	1900	0	1400	ug/Kg	74	8			43	123	20
Benzo(g,h,i)perylene	1900	0	1100	ug/Kg	58	0			24	125	20
1,2,4,5-Tetrachlorobenzene	1900	0	1900	ug/Kg	100	5			69	124	20
1,4-Dioxane	1900	0	1600	ug/Kg	84	0			46	112	20
2,3,4,6-Tetrachlorophenol	1900	0	1700	ug/Kg	89	0			69	112	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.: Q1487

Client: JPCL Engineering

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166984BS	Benzaldehyde	1700	710	ug/Kg	42				10	133	
	Phenol	1700	1300	ug/Kg	76				62	112	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				60	101	
	2-Chlorophenol	1700	1400	ug/Kg	82				65	112	
	2-Methylphenol	1700	1300	ug/Kg	76				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1100	ug/Kg	65				51	100	
	Acetophenone	1700	1500	ug/Kg	88				66	98	
	3+4-Methylphenols	1700	1300	ug/Kg	76				58	111	
	N-Nitroso-di-n-propylamine	1700	1200	ug/Kg	71				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1600	ug/Kg	94				61	111	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				46	141	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				66	97	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	400	ug/Kg	24				16	100	
	Hexachlorobutadiene	1700	1400	ug/Kg	82				53	98	
	Caprolactam	1700	1600	ug/Kg	94				67	110	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	4900	ug/Kg	148				45	165	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1500	ug/Kg	88				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1600	ug/Kg	94				66	101	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1500	ug/Kg	88				63	101	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				61	104	
	3-Nitroaniline	1700	850	ug/Kg	50				28	100	
	Acenaphthene	1700	1600	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	3700	ug/Kg	112				37	128	
	4-Nitrophenol	3300	3800	ug/Kg	115				48	119	
	Dibenzofuran	1700	1300	ug/Kg	76				63	99	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1800	ug/Kg	106		*		64	103	
	4,6-Dinitro-2-methylphenol	1700	1900	ug/Kg	112				76	113	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				71	99	
	4-Bromophenyl-phenylether	1700	1400	ug/Kg	82				66	102	

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.: Q1487

Client: JPCL Engineering

Analytical Method: 8270E **DataFile:** BF141860.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166984BS	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	2000	ug/Kg	118				47	152	
	Pentachlorophenol	3300	3000	ug/Kg	91				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1400	ug/Kg	82				61	99	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1400	ug/Kg	82				59	103	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103	
	3,3-Dichlorobenzidine	1700	720	ug/Kg	42				42	91	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				54	135	
	Di-n-octyl phthalate	1700	1400	ug/Kg	82				52	137	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1200	ug/Kg	71				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166984BL

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141859.D Lab Sample ID: PB166984BL

Instrument ID: BNA_F Date Extracted: 03/05/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/06/2025

Level: (low/med) LOW Time Analyzed: 10:22

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166984BS	PB166984BS	BF141860.D	03/06/2025
DN-B-42	Q1487-01	BF141846.D	03/05/2025
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025

COMMENTS:

Raw Data: **BF141792.D**

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: JPCL01

Lab Code: CHEM SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141792.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.9
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.9
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.6
442	Greater than 50% of mass 198	93.2
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141793.D	02/27/2025	15:17
SSTDICC005	SSTDICC005	BF141794.D	02/27/2025	15:46
SSTDICC010	SSTDICC010	BF141795.D	02/27/2025	16:16
SSTDICC020	SSTDICC020	BF141796.D	02/27/2025	16:46
SSTDICCC040	SSTDICCC040	BF141797.D	02/27/2025	17:16
SSTDICC050	SSTDICC050	BF141798.D	02/27/2025	17:46
SSTDICC060	SSTDICC060	BF141799.D	02/27/2025	18:15
SSTDICC080	SSTDICC080	BF141800.D	02/27/2025	18:45

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: JPCL01

Lab Code: CHEM SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141834.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.3
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	84.3
443	15.0 - 24.0% of mass 442	16.7 (19.8) 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	BF141835.D	03/05/2025	10:09
DN-B-42MS	Q1487-01MS	BF141844.D	03/05/2025	15:21
DN-B-42MSD	Q1487-01MSD	BF141845.D	03/05/2025	15:51
DN-B-42	Q1487-01	BF141846.D	03/05/2025	16:21

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: JPCL01

Lab Code: CHEM SAS No.: Q1487 SDG NO.: Q1487

Lab File ID: BF141857.D DFTPP Injection Date: 03/06/2025

Instrument ID: BNA_F DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.8
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	46.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	94.6
443	15.0 - 24.0% of mass 442	18.6 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141858.D	03/06/2025	09:52
PB166984BL	PB166984BL	BF141859.D	03/06/2025	10:22
PB166984BS	PB166984BS	BF141860.D	03/06/2025	10:52

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.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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	246608	6.887	945299	8.17	507589	9.92
	UPPER LIMIT	493216	7.387	1890600	8.669	1015180	10.422
	LOWER LIMIT	123304	6.387	472650	7.669	253795	9.422
	EPA SAMPLE NO.						
01	DN-B-42	183000	6.89	691002	8.16	343341	9.92
02	DN-B-42MS	192210	6.89	734232	8.17	370025	9.92
03	DN-B-42MSD	191311	6.89	731999	8.17	367233	9.92

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.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/05/2025

Lab File ID: BF141835.D Time Analyzed: 10:09

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	873644	11.404	595765	14.045	513355	15.51
	UPPER LIMIT	1747290	11.904	1191530	14.545	1026710	16.01
	LOWER LIMIT	436822	10.904	297883	13.545	256678	15.01
	EPA SAMPLE NO.						
01	DN-B-42	517666	11.40	403116	14.03	459662	15.51
02	DN-B-42MS	565314	11.40	409462	14.04	473342	15.51
03	DN-B-42MSD	575333	11.40	414755	14.04	465047	15.51

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.

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.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	207866	6.887	779725	8.17	422269	9.92
	UPPER LIMIT	415732	7.387	1559450	8.669	844538	10.422
	LOWER LIMIT	103933	6.387	389863	7.669	211135	9.422
	EPA SAMPLE NO.						
01	PB166984BL	218862	6.89	871720	8.16	477596	9.92
02	PB166984BS	222677	6.89	860348	8.17	467040	9.92

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.: Q1487 SAS No.: Q1487 SDG NO.: Q1487

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/06/2025

Lab File ID: BF141858.D Time Analyzed: 09:52

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	691934	11.404	434521	14.045	382575	15.515
	UPPER LIMIT	1383870	11.904	869042	14.545	765150	16.015
	LOWER LIMIT	345967	10.904	217261	13.545	191288	15.015
	EPA SAMPLE NO.						
01	PB166984BL	848035	11.40	691946	14.04	552165	15.51
02	PB166984BS	801941	11.41	537472	14.05	470320	15.52

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: **BF141846.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	370	U	210	370	ug/Kg
108-95-2	Phenol	190	U	93.8	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	94.8	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	94.5	190	ug/Kg
95-48-7	2-Methylphenol	190	U	91.2	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	100	190	ug/Kg
98-86-2	Acetophenone	190	U	98.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	370	U	90.3	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	90.6	U	45.6	90.6	ug/Kg
67-72-1	Hexachloroethane	190	U	94.0	190	ug/Kg
98-95-3	Nitrobenzene	190	U	100	190	ug/Kg
78-59-1	Isophorone	190	U	95.8	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	97.1	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	85.5	190	ug/Kg
91-20-3	Naphthalene	190	U	93.5	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	93.5	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	94.3	190	ug/Kg
105-60-2	Caprolactam	370	U	98.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	87.7	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	93.4	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	370	U	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	80.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	83.8	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	98.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	94.3	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	190	U	92.5	190	ug/Kg

Raw Data: **BF141846.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	190	U	97.9	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	94.2	190	ug/Kg
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	91.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	370	U	280	370	ug/Kg
100-02-7	4-Nitrophenol	370	U	130	370	ug/Kg
132-64-9	Dibenzofuran	190	U	95.5	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	97.6	190	ug/Kg
84-66-2	Diethylphthalate	190	U	90.7	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	96.9	190	ug/Kg
86-73-7	Fluorene	190	U	96.8	190	ug/Kg
100-01-6	4-Nitroaniline	190	UQ	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	370	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	92.4	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	89.3	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	96.2	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	370	U	87.5	370	ug/Kg
85-01-8	Phenanthrene	190	U	95.1	190	ug/Kg
120-12-7	Anthracene	190	U	95.5	190	ug/Kg
86-74-8	Carbazole	190	U	90.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	95.4	190	ug/Kg
206-44-0	Fluoranthene	190	U	92.5	190	ug/Kg
129-00-0	Pyrene	190	U	94.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	370	U	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	190	U	91.4	190	ug/Kg
218-01-9	Chrysene	190	U	90.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	370	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	190	U	91.8	190	ug/Kg

Raw Data: **BF141846.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	190	U	93.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	U	88.4	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	91.9	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	190	U	90.7	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	98.3	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	117		18 - 112	78%	SPK: 150
13127-88-3	Phenol-d6	112		15 - 107	75%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.1		18 - 107	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.4		20 - 109	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	119		10 - 116	79%	SPK: 150
1718-51-0	Terphenyl-d14	58.5		10 - 105	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	183000	6.887			
1146-65-2	Naphthalene-d8	691000	8.163			
15067-26-2	Acenaphthene-d10	343000	9.916			
1517-22-2	Phenanthrene-d10	518000	11.404			
1719-03-5	Chrysene-d12	403000	14.033			
1520-96-3	Perylene-d12	460000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1400	JB		2.17	ug/Kg
000629-59-4	Tetradecane	210	J		9.32	ug/Kg
000571-58-4	Naphthalene, 1,4-dimethyl-	100	J		9.57	ug/Kg
017312-62-8	Decane, 5-propyl-	330	J		9.64	ug/Kg
055045-08-4	Dodecane, 2-methyl-6-propyl-	370	J		9.85	ug/Kg
000630-02-4	Octacosane	120	J		10.2	ug/Kg
000544-76-3	Hexadecane	390	J		10.3	ug/Kg

Raw Data: **BF141846.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42	SDG No.:	Q1487
Lab Sample ID:	Q1487-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141846.D	1	03/05/25 09:40	03/05/25 16:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000629-50-5	Tridecane	310	J		10.6	ug/Kg
000119-61-9	Benzophenone	240	J		10.6	ug/Kg
003892-00-0	Pentadecane, 2,6,10-trimethyl-	1000	J		10.8	ug/Kg
000646-31-1	Tetracosane	490	J		11.3	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	360	J		11.3	ug/Kg
000629-93-6	Octadecane, 1-iodo-	97.0	J		11.7	ug/Kg
000629-92-5	Nonadecane	370	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
000112-95-8	Eicosane	320	J		12.1	ug/Kg
000629-94-7	Heneicosane	230	J		12.5	ug/Kg
000593-49-7	Heptacosane	180	J		12.9	ug/Kg
000301-02-0	9-Octadecenamide, (Z)-	140	J		13.5	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	190	J		13.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Time: Mar 05 16:46:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

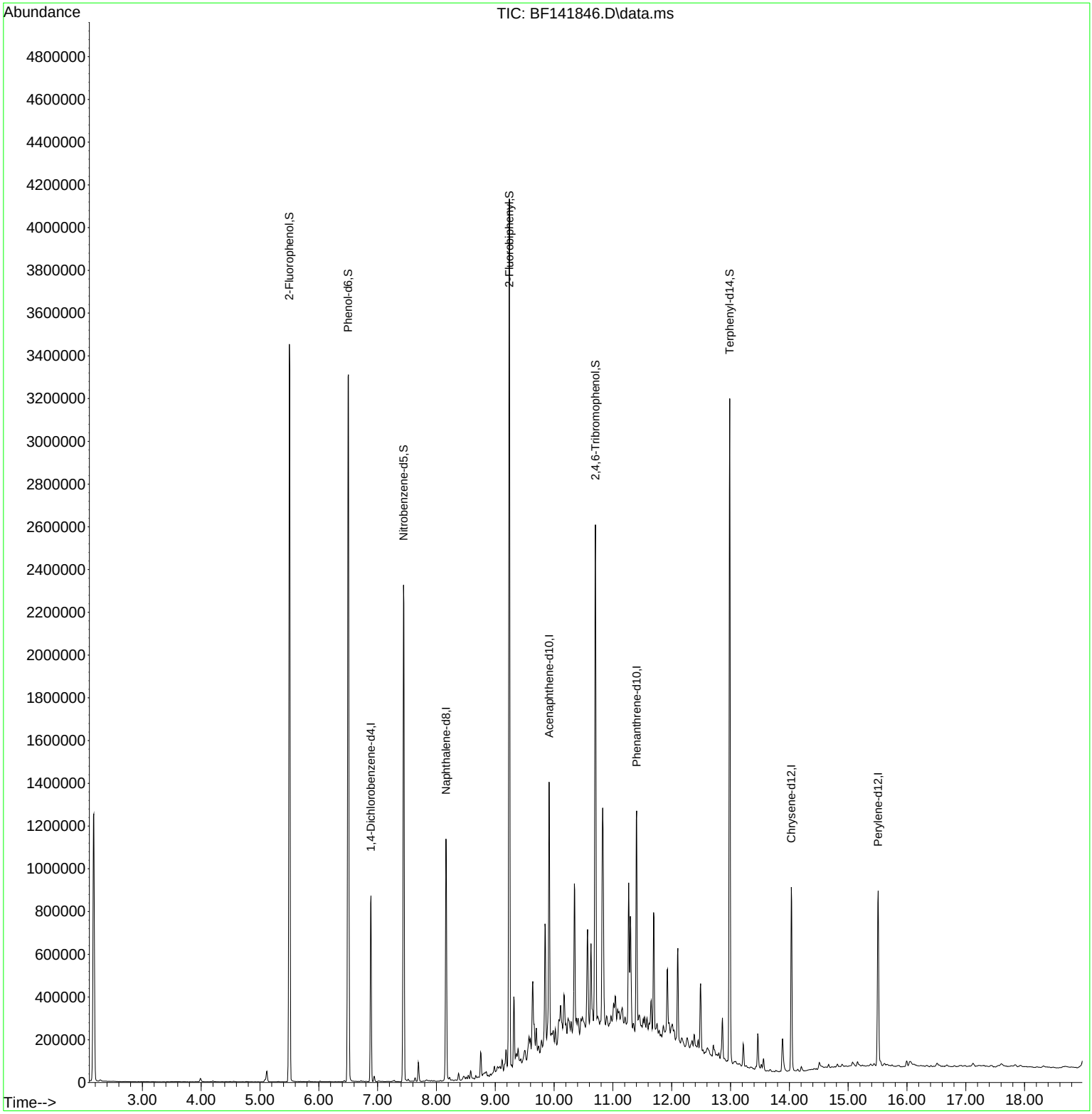
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	183000	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	691002	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	343341	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	517666	20.000	ng	0.00
76) Chrysene-d12	14.033	240	403116	20.000	ng	-0.02
86) Perylene-d12	15.510	264	459662	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1345035	117.377	ng	0.00
7) Phenol-d6	6.498	99	1675020	112.304	ng	-0.01
23) Nitrobenzene-d5	7.440	82	1060893	98.136	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	383280	118.907	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	1743685	81.432	ng	0.00
79) Terphenyl-d14	12.986	244	1458673	58.544	ng	-0.01
Target Compounds						Qvalue

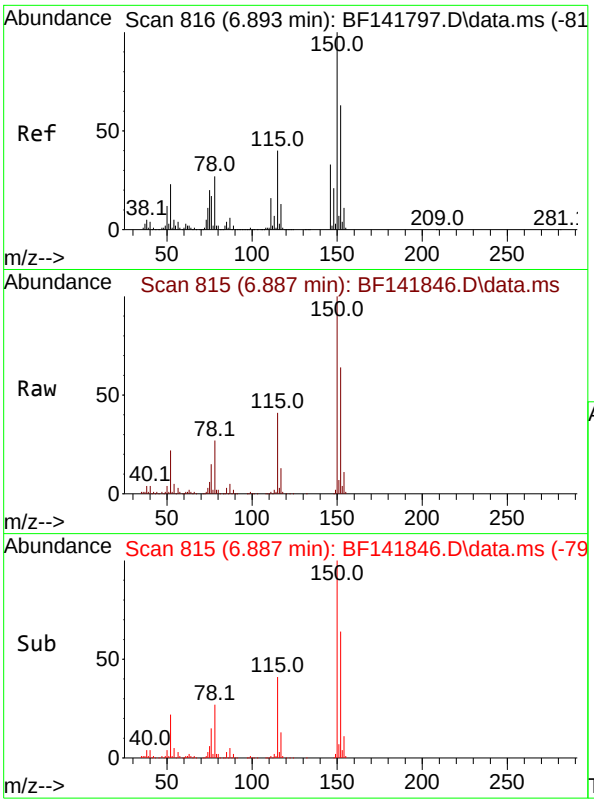
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Time: Mar 05 16:46:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



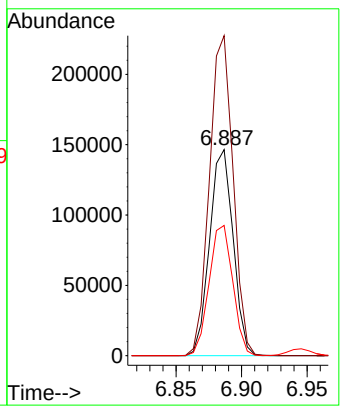


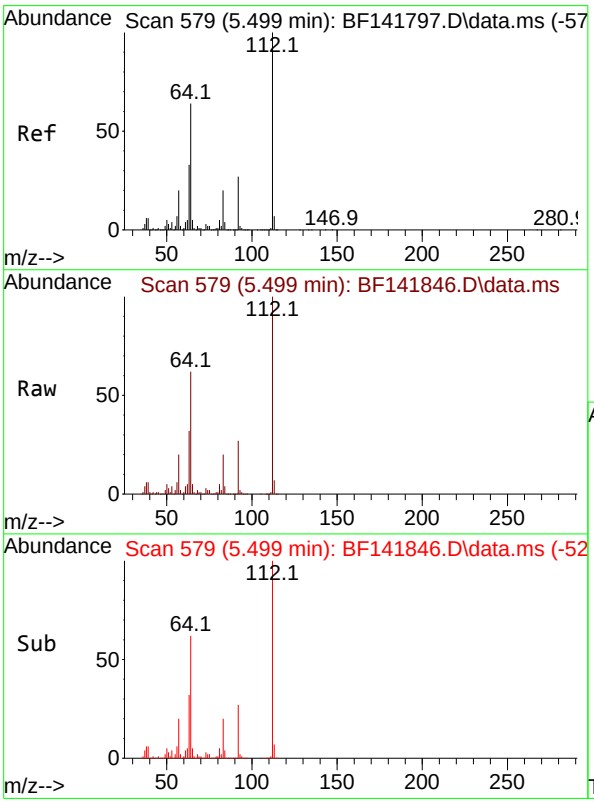
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Tgt Ion:152 Resp: 183000

Ion	Ratio	Lower	Upper
152	100		
150	155.2	127.5	191.3
115	63.2	51.4	77.2

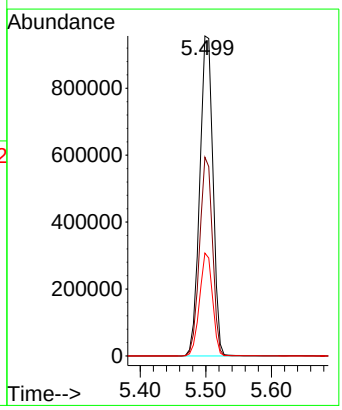


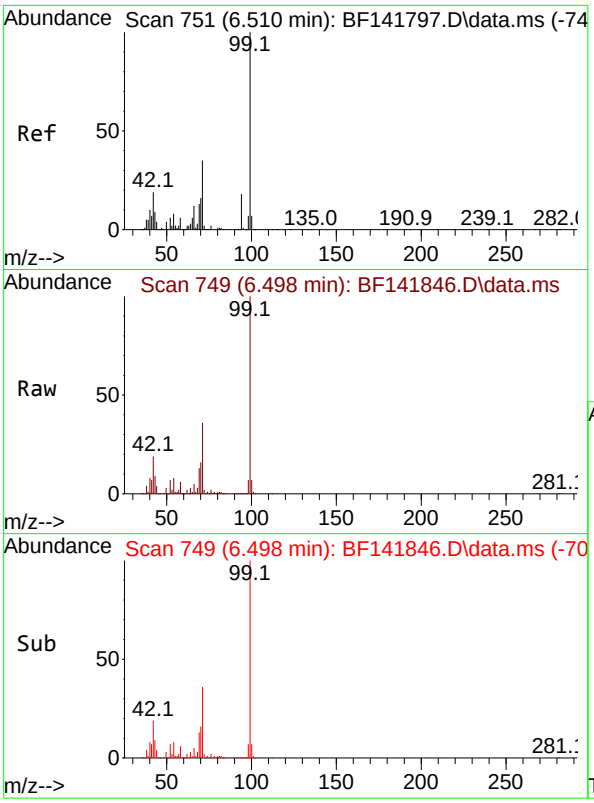


#5
2-Fluorophenol
Concen: 117.377 ng
RT: 5.499 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Tgt Ion:112 Resp: 1345035

Ion	Ratio	Lower	Upper
112	100		
64	62.1	51.3	76.9
63	32.2	26.2	39.4



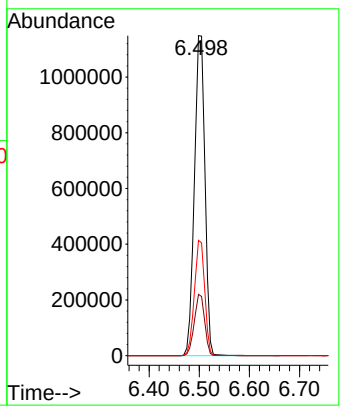


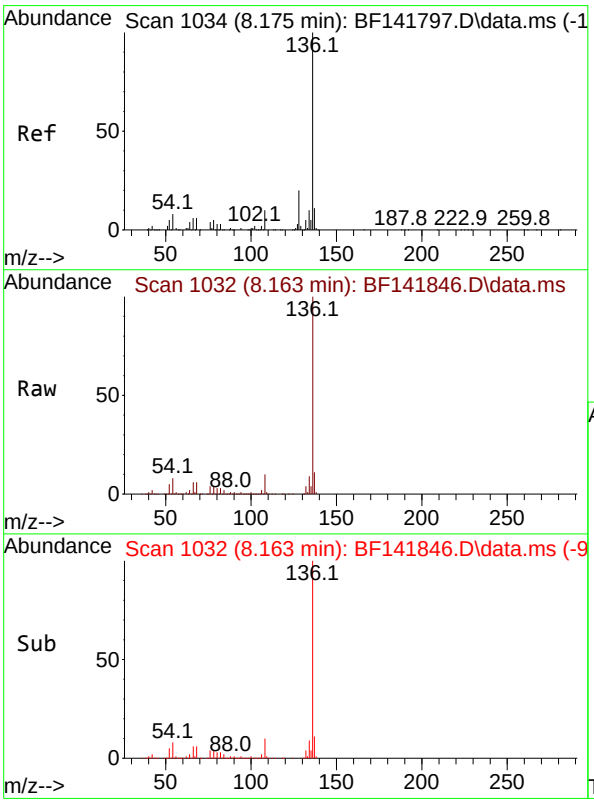
#7
Phenol-d6
Concen: 112.304 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Tgt Ion: 99 Resp: 1675020

Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.2	22.8
71	36.1	28.2	42.2

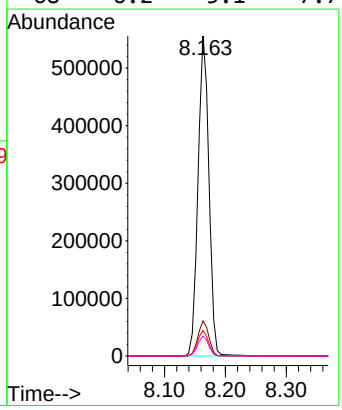


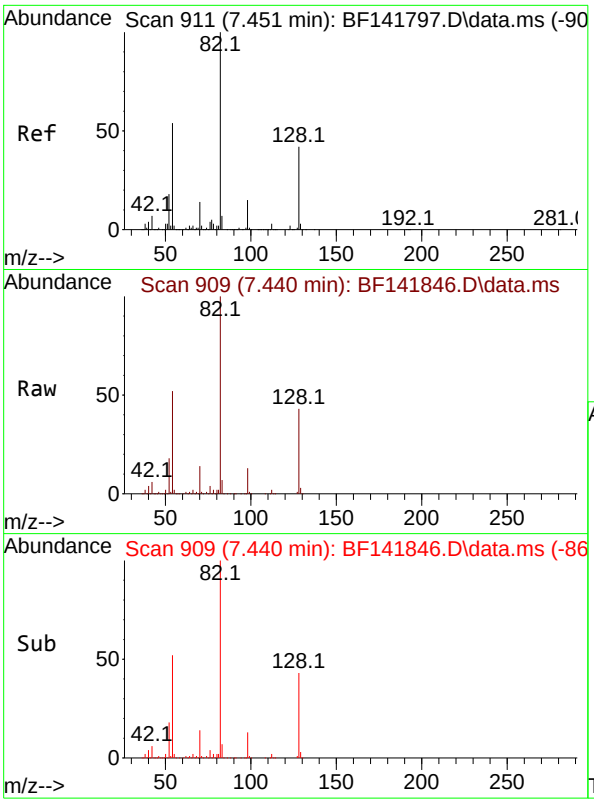


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Tgt Ion:136 Resp: 691002

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.0	6.9	10.3
68	6.2	5.1	7.7



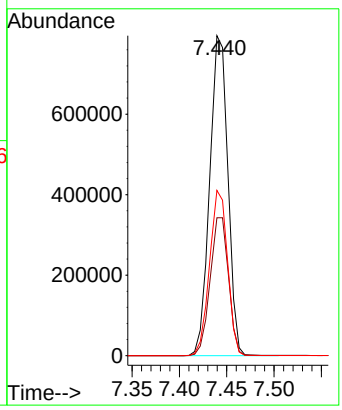


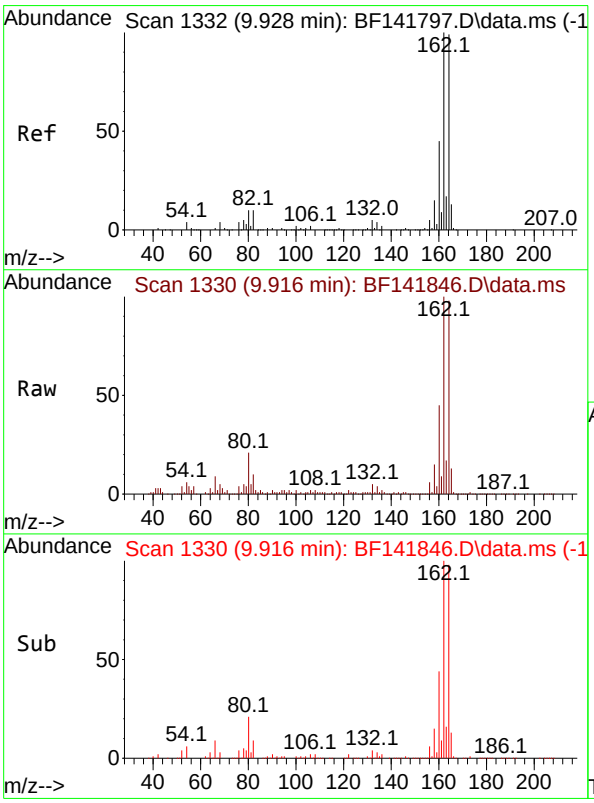
#23
Nitrobenzene-d5
Concen: 98.136 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Tgt Ion: 82 Resp: 1060893

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.5	50.3
54	51.6	42.7	64.1

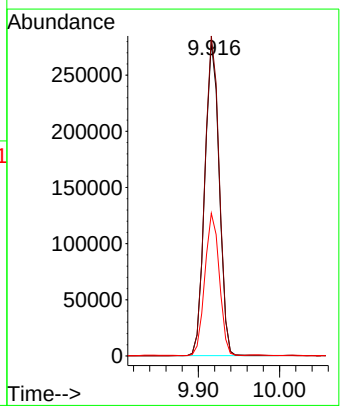


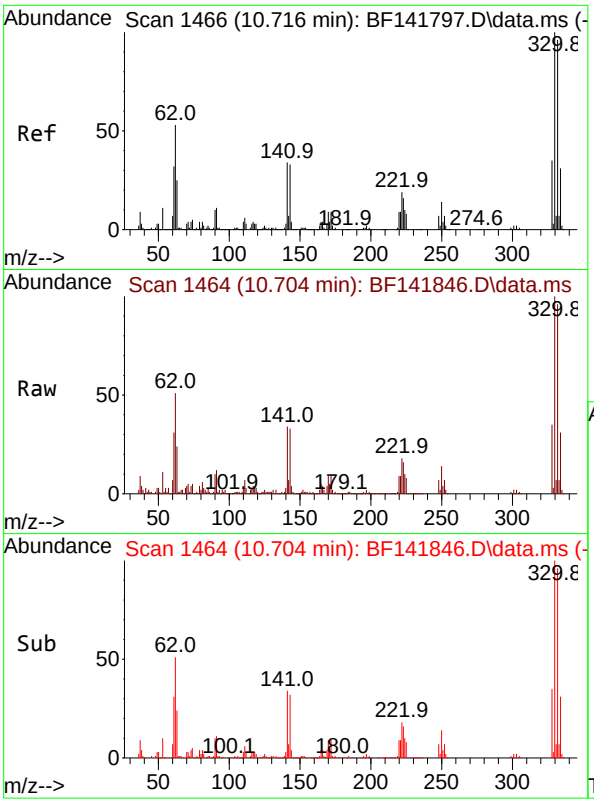


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Tgt Ion:164 Resp: 343341

Ion	Ratio	Lower	Upper
164	100		
162	101.9	80.6	120.8
160	45.4	36.3	54.5



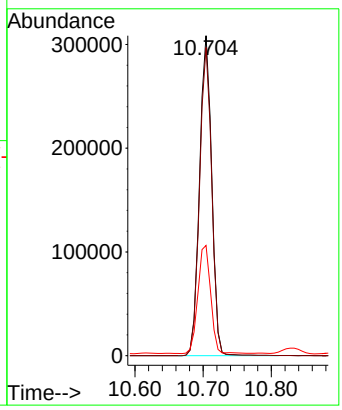


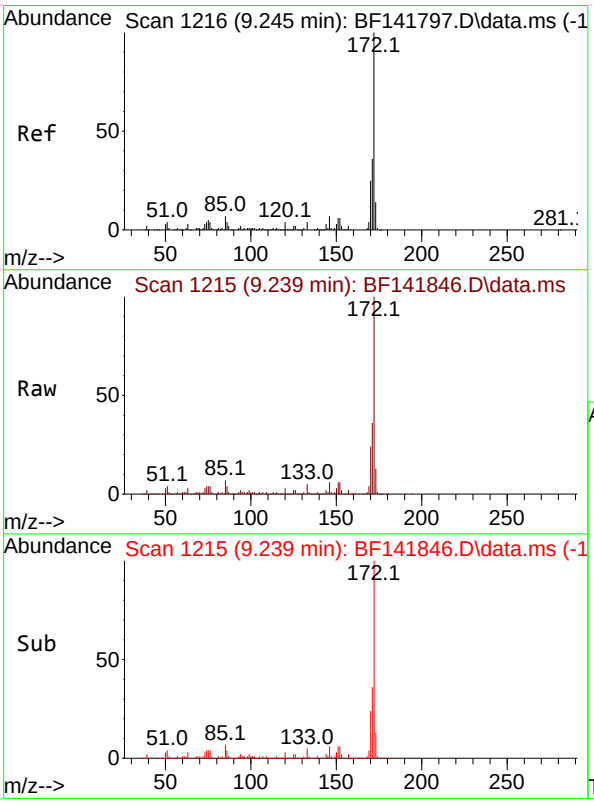
#42
2,4,6-Tribromophenol
Concen: 118.907 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Tgt Ion:330 Resp: 383280

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.6	115.0
141	35.2	29.0	43.4

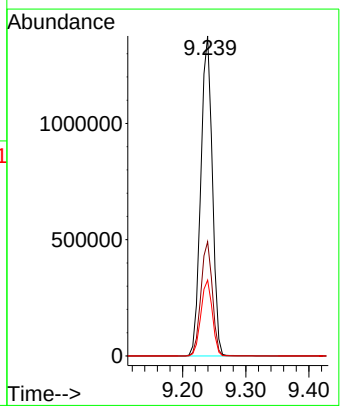


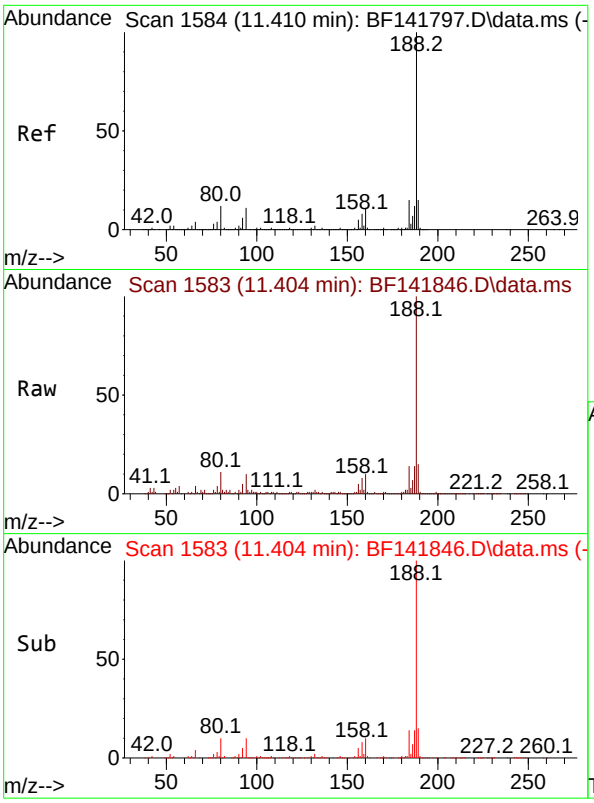


#45
2-Fluorobiphenyl
Concen: 81.432 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Tgt Ion:172 Resp: 1743685

Ion	Ratio	Lower	Upper
172	100		
171	35.7	29.2	43.8
170	23.7	19.7	29.5



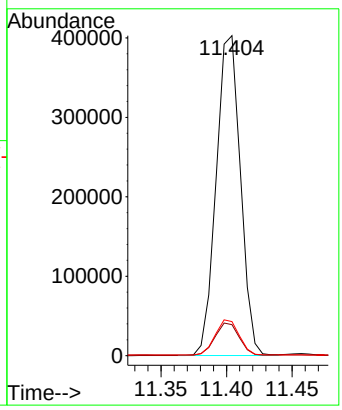


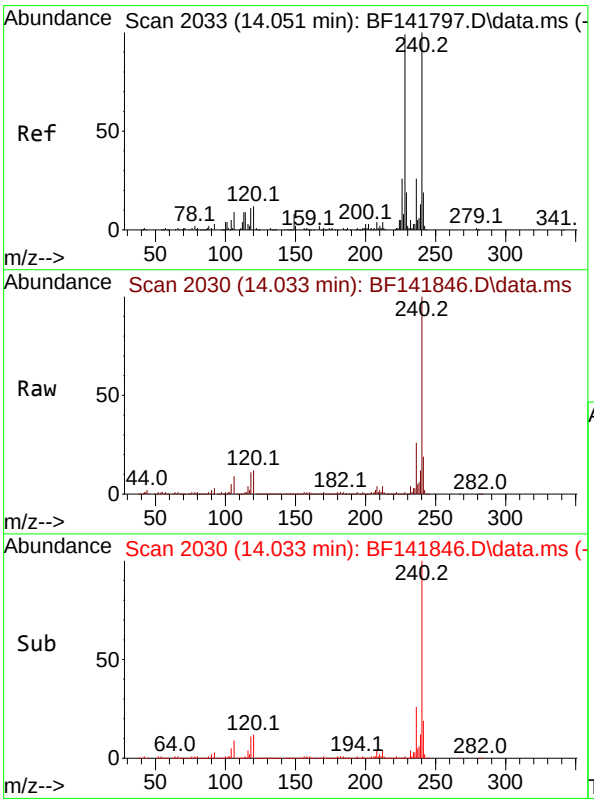
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Tgt Ion:188 Resp: 517666

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.9	13.3
80	10.7	9.7	14.5

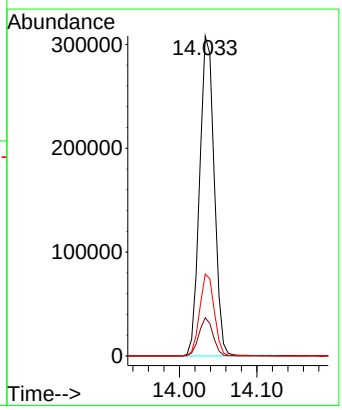


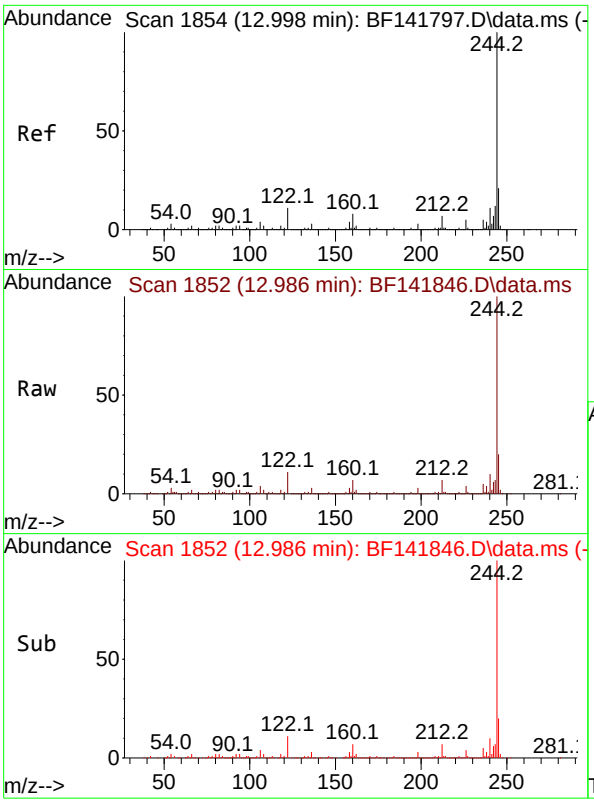


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.018 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Tgt Ion:240 Resp: 403116

Ion	Ratio	Lower	Upper
240	100		
120	12.0	9.7	14.5
236	25.6	21.0	31.4



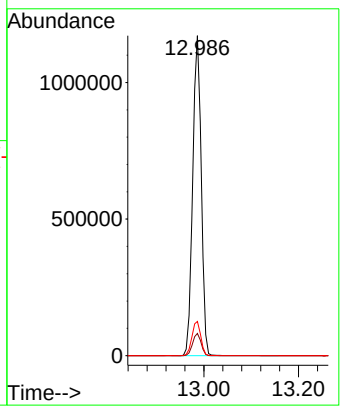


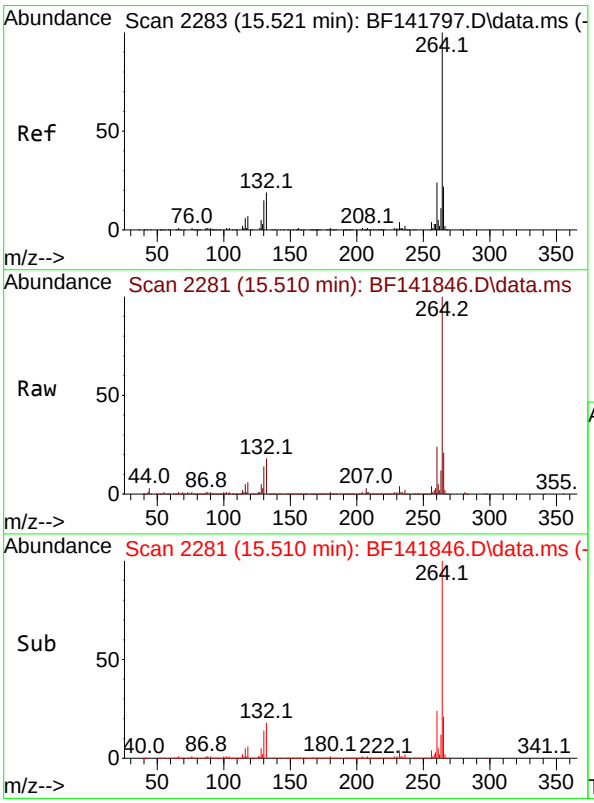
#79
Terphenyl-d14
Concen: 58.544 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Tgt Ion:244 Resp: 1458673

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	10.7	9.0	13.6

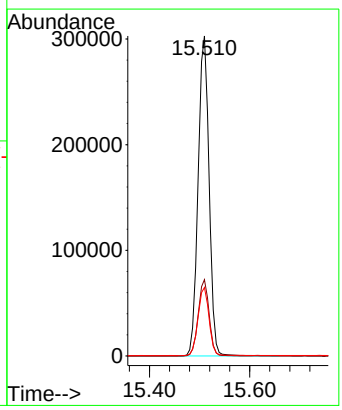




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141846.D
Acq: 05 Mar 2025 16:21

Tgt Ion:264 Resp: 459662

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	21.4	17.4	26.0



Sample Results: **BF141846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141846.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.175	6	14	27	rVB	1249059	2060995	40.30%	4.347%
2	5.116	503	514	526	rVB2	49314	92916	1.82%	0.196%
3	5.499	573	579	585	rBV	3451423	4774808	93.37%	10.071%
4	6.504	743	750	755	rBV	3307370	4852827	94.89%	10.235%
5	6.887	809	815	820	rBV	869871	1100249	21.51%	2.321%
6	7.440	903	909	915	rBV	2323582	3105147	60.72%	6.549%
7	7.693	947	952	961	rVB	89476	114154	2.23%	0.241%
8	8.163	1019	1032	1039	rBV	1132982	1454162	28.44%	3.067%
9	8.751	1128	1132	1137	rBV	118915	157375	3.08%	0.332%
10	8.987	1163	1172	1175	rBV4	39922	78922	1.54%	0.166%
11	9.116	1190	1194	1198	rVB4	50467	72057	1.41%	0.152%
12	9.181	1202	1205	1209	rVB	79014	97463	1.91%	0.206%
13	9.239	1209	1215	1220	rBV	4057932	5113958	100.00%	10.786%
14	9.316	1224	1228	1232	rBV	329217	444411	8.69%	0.937%
15	9.387	1238	1240	1246	rVB3	55494	62594	1.22%	0.132%
16	9.575	1265	1272	1274	rBV4	110173	216026	4.22%	0.456%
17	9.639	1278	1283	1290	rVV3	338904	690885	13.51%	1.457%
18	9.698	1290	1293	1296	rVB2	105441	128601	2.51%	0.271%
19	9.787	1304	1308	1311	rBV3	56193	91465	1.79%	0.193%
20	9.845	1313	1318	1323	rVV	567975	792892	15.50%	1.672%
21	9.916	1323	1330	1335	rVV	1204942	1598897	31.27%	3.372%
22	10.022	1345	1348	1352	rVB	75244	92031	1.80%	0.194%
23	10.081	1354	1358	1360	rBV	104176	164449	3.22%	0.347%
24	10.169	1369	1373	1378	rBV6	157814	244735	4.79%	0.516%
25	10.239	1382	1385	1391	rBV6	71043	155229	3.04%	0.327%
26	10.345	1399	1403	1407	rBV	656048	823268	16.10%	1.736%
27	10.457	1419	1422	1424	rBV4	60276	84910	1.66%	0.179%
28	10.569	1436	1441	1446	rBV	445321	657093	12.85%	1.386%
29	10.628	1447	1451	1455	rVV	368384	500450	9.79%	1.056%
30	10.704	1458	1464	1468	rBV	2322199	3033529	59.32%	6.398%
31	10.828	1480	1485	1493	rVB2	1014556	1822461	35.64%	3.844%
32	11.269	1556	1560	1563	rBV	653925	881320	17.23%	1.859%
33	11.298	1563	1565	1571	rVB	521387	646811	12.65%	1.364%
34	11.404	1578	1583	1587	rBV	1032151	1369646	26.78%	2.889%
35	11.651	1621	1625	1628	rVB	133585	175695	3.44%	0.371%
36	11.692	1628	1632	1637	rVB	546603	676189	13.22%	1.426%

Sample Results: **BF141846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.928	1668	1672	1675	rBV	282513	365338	7.14%	0.771%
38	12.104	1698	1702	1710	rVB	444069	576719	11.28%	1.216%
39	12.380	1746	1749	1754	rVB	52985	66631	1.30%	0.141%
40	12.492	1763	1768	1773	rVB	313871	418759	8.19%	0.883%
41	12.710	1801	1805	1812	rBV4	53013	108323	2.12%	0.228%
42	12.863	1824	1831	1835	rVB2	190951	272130	5.32%	0.574%
43	12.986	1846	1852	1861	rVB	3112398	3962574	77.49%	8.358%
44	13.216	1887	1891	1896	rVB	104903	134552	2.63%	0.284%
45	13.463	1929	1933	1940	rVB	161197	221912	4.34%	0.468%
46	13.563	1946	1950	1956	rVB2	56710	83554	1.63%	0.176%
47	13.886	2000	2005	2018	rVB	151169	286048	5.59%	0.603%
48	14.033	2025	2030	2044	rVB	859473	1156475	22.61%	2.439%
49	14.510	2107	2111	2124	rBV3	29024	81193	1.59%	0.171%
50	15.510	2275	2281	2287	rBV	815012	1249069	24.42%	2.635%

Sum of corrected areas: 47411897

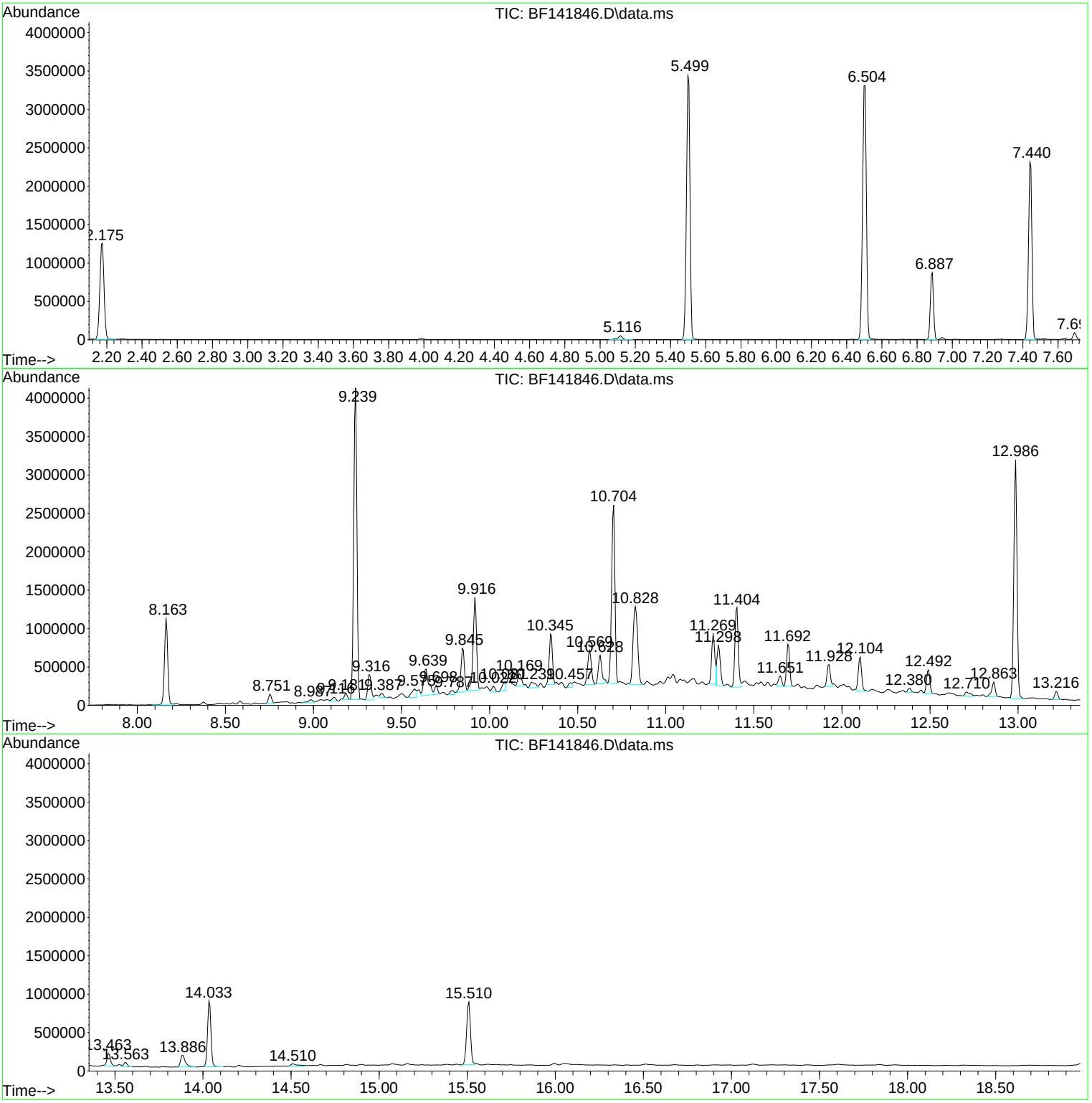
Sample Results: **BF141846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Sample Results: **BF141846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

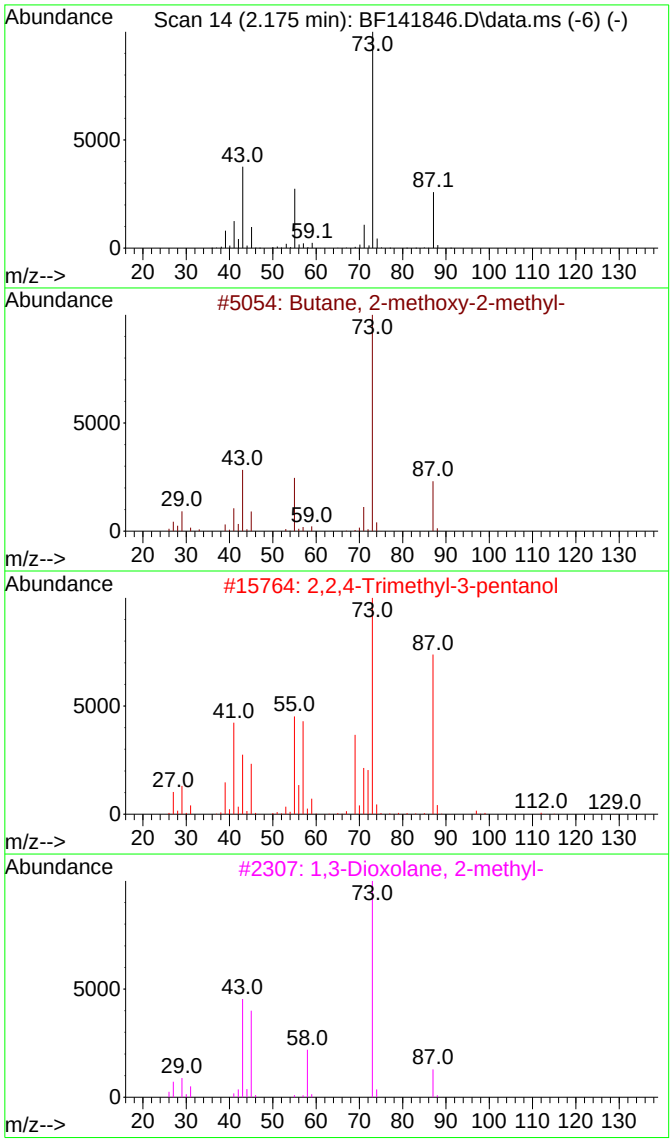
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

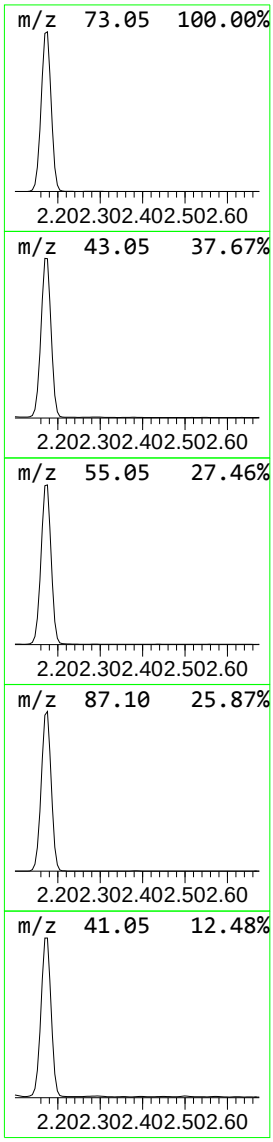
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.175	37.46 ng	2061000	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

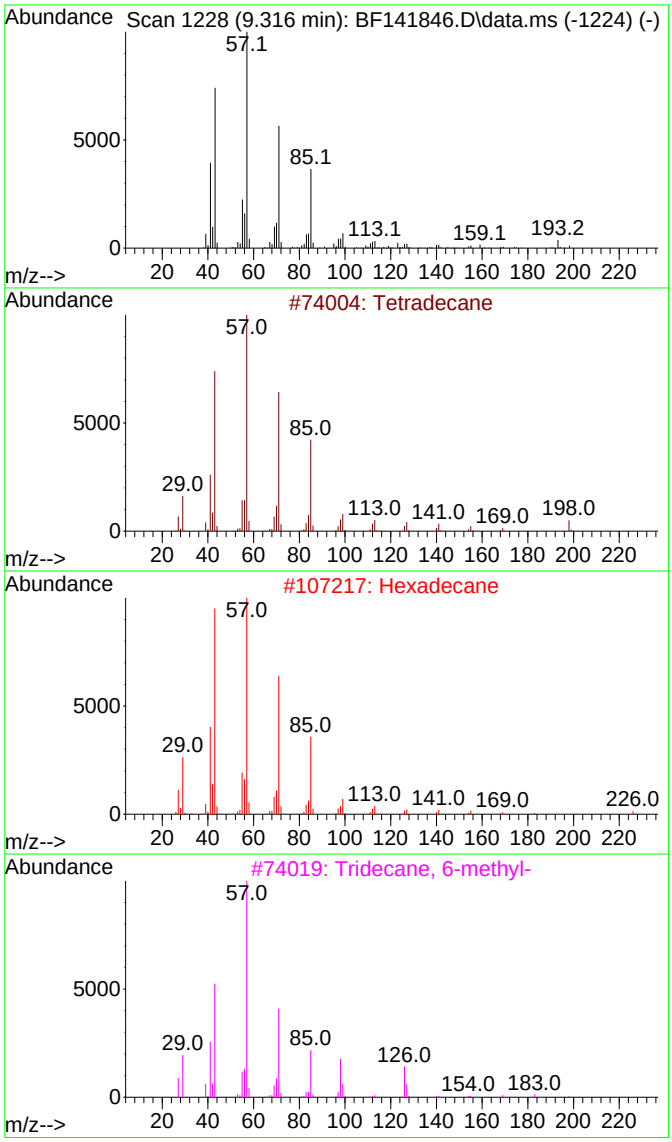
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

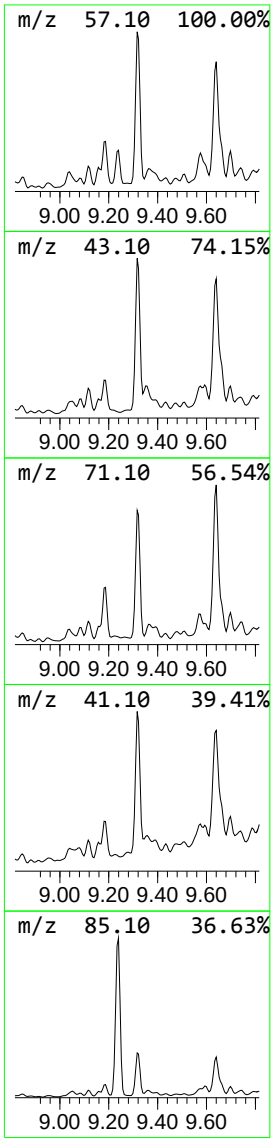
****

Peak Number 2 Tetradecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.316	5.56 ng	444411	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	93
2	Hexadecane	226	C16H34	000544-76-3	87
3	Tridecane, 6-methyl-	198	C14H30	013287-21-3	87
4	Undecane	156	C11H24	001120-21-4	86
5	Tridecane	184	C13H28	000629-50-5	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

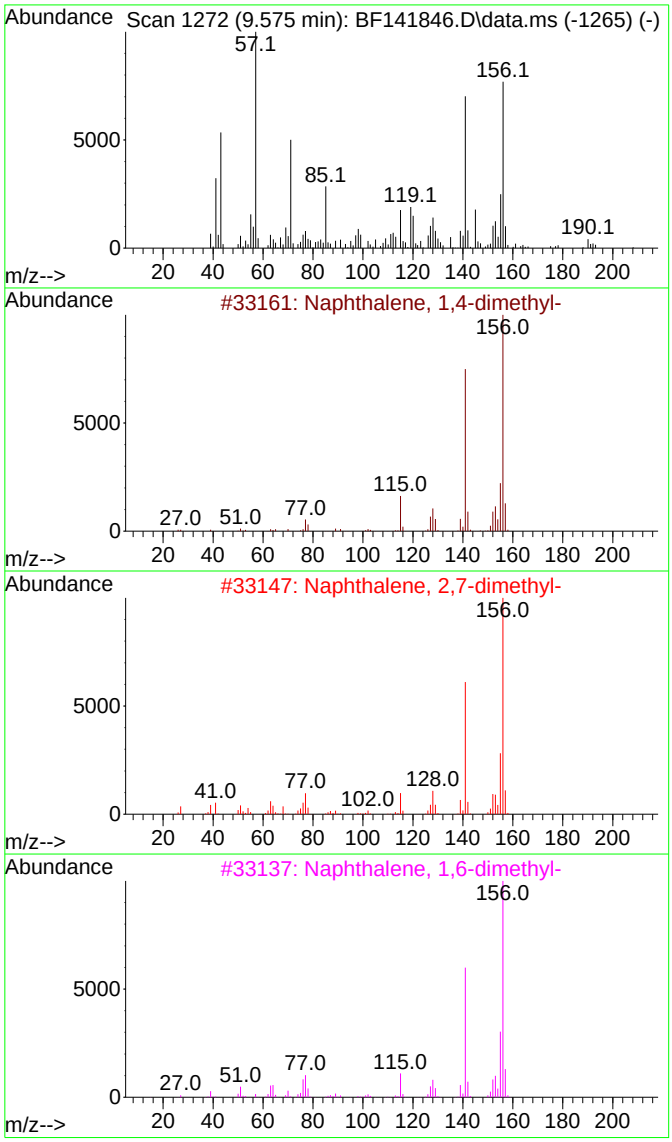
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

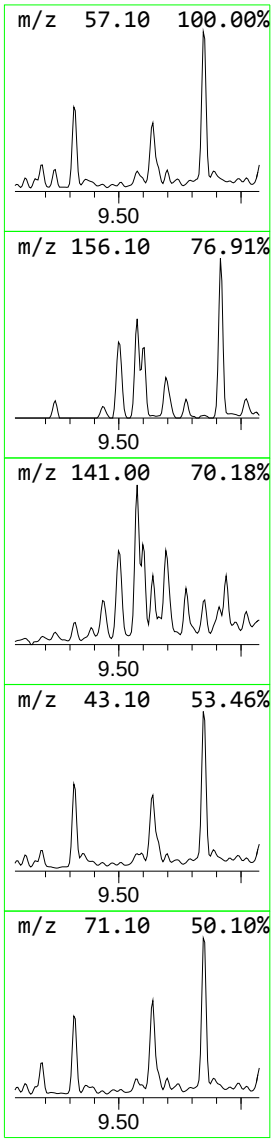
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Naphthalene, 1,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.575	2.70 ng	216026	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	93
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	93
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	93
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	93





Sample Results: **BF141846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

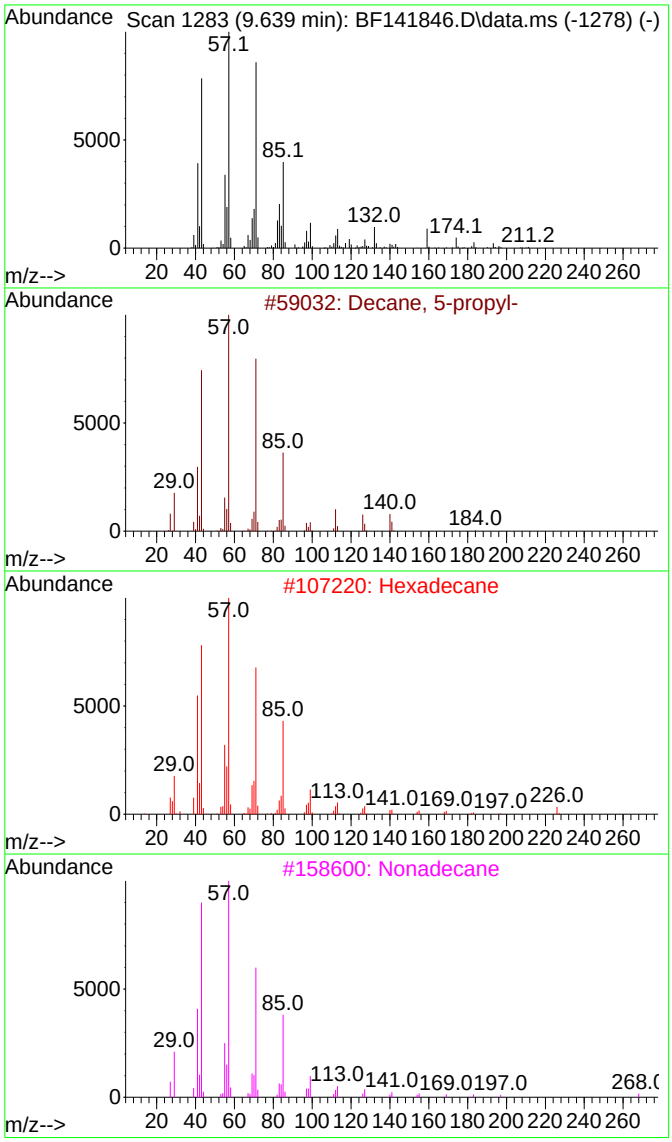
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

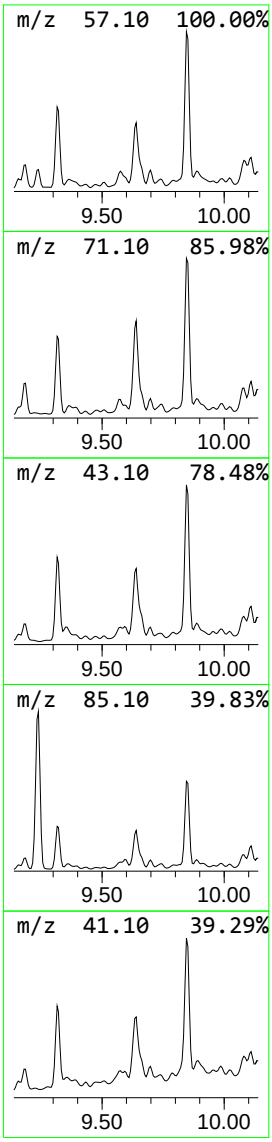
****

Peak Number 4 Decane, 5-propyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.639	8.64 ng	690885	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 5-propyl-	184	C13H28	017312-62-8	76
2	Hexadecane	226	C16H34	000544-76-3	68
3	Nonadecane	268	C19H40	000629-92-5	64
4	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	62
5	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

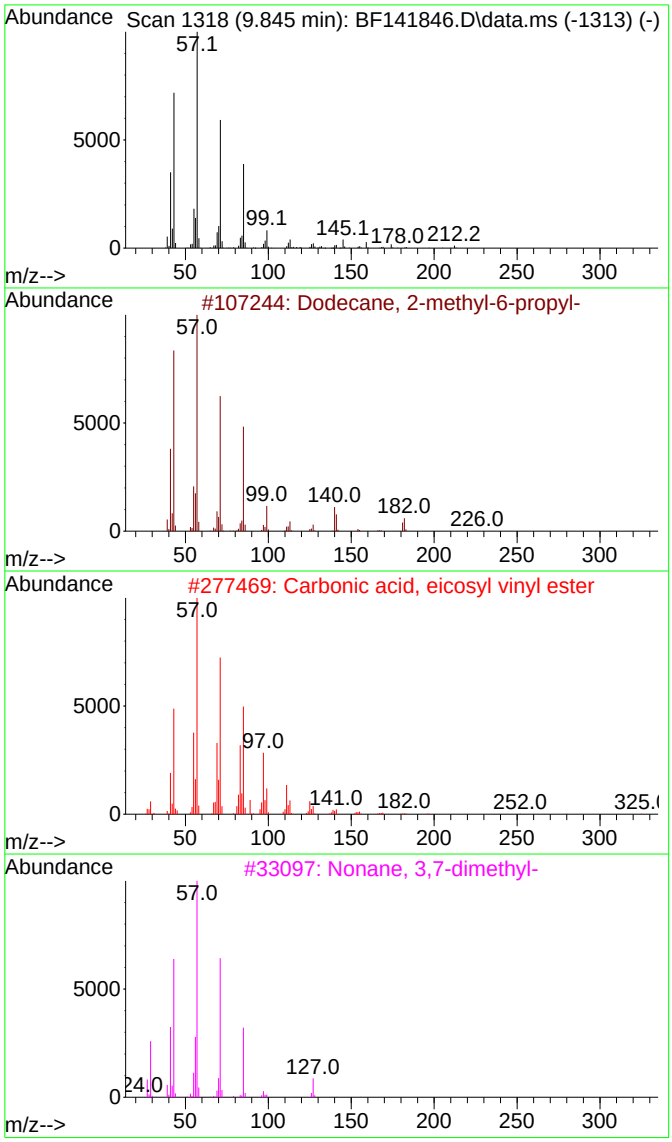
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

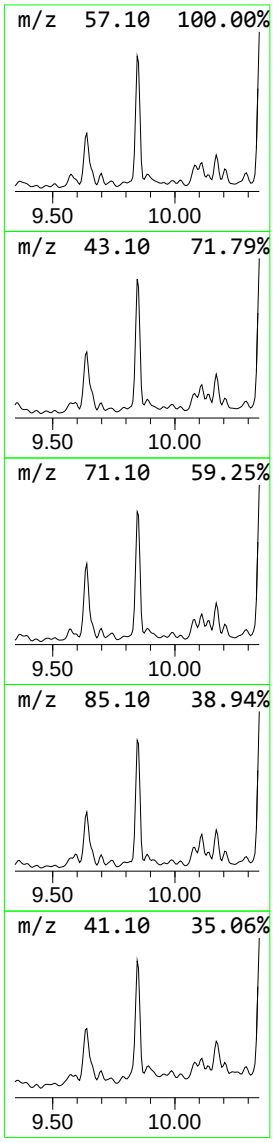
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Dodecane, 2-methyl-6-propyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.845	9.92 ng	792892	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	80
2	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	80
3	Nonane, 3,7-dimethyl-	156	C11H24	017302-32-8	72
4	Tridecane	184	C13H28	000629-50-5	72
5	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

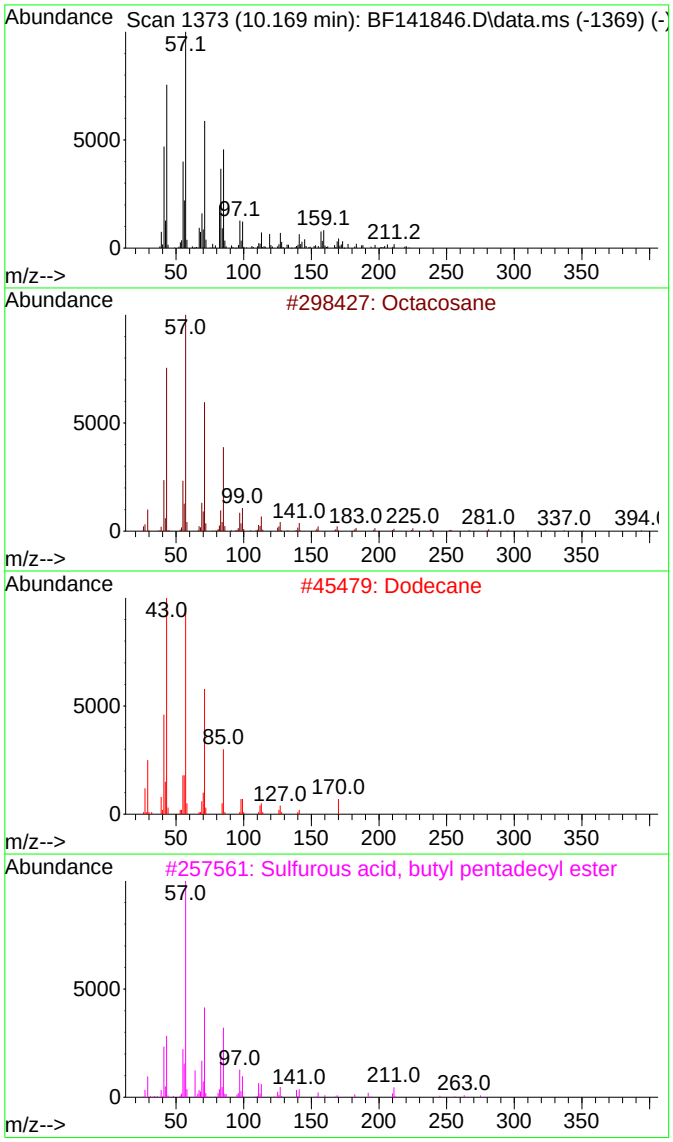
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

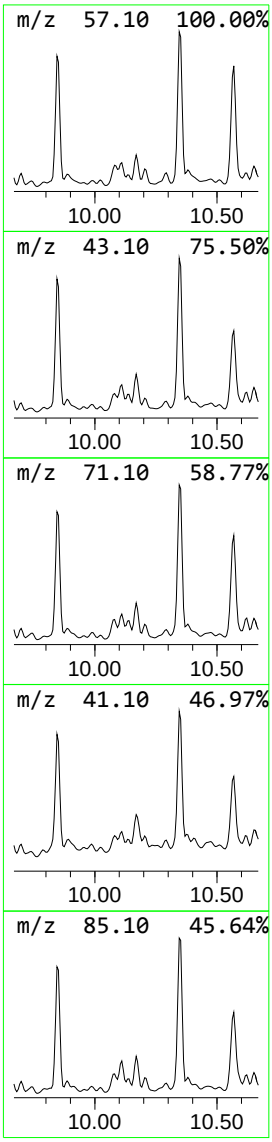
****

Peak Number 6 Octacosane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.169	3.06 ng	244735	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	76
2	Dodecane	170	C12H26	000112-40-3	76
3	Sulfurous acid, butyl pentadecyl...	348	C19H40O3S	1000309-18-2	72
4	Tetratetracontane	619	C44H90	007098-22-8	72
5	Sulfurous acid, butyl tetradecyl...	334	C18H38O3S	1010309-18-1	72





Sample Results: **BF141846.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

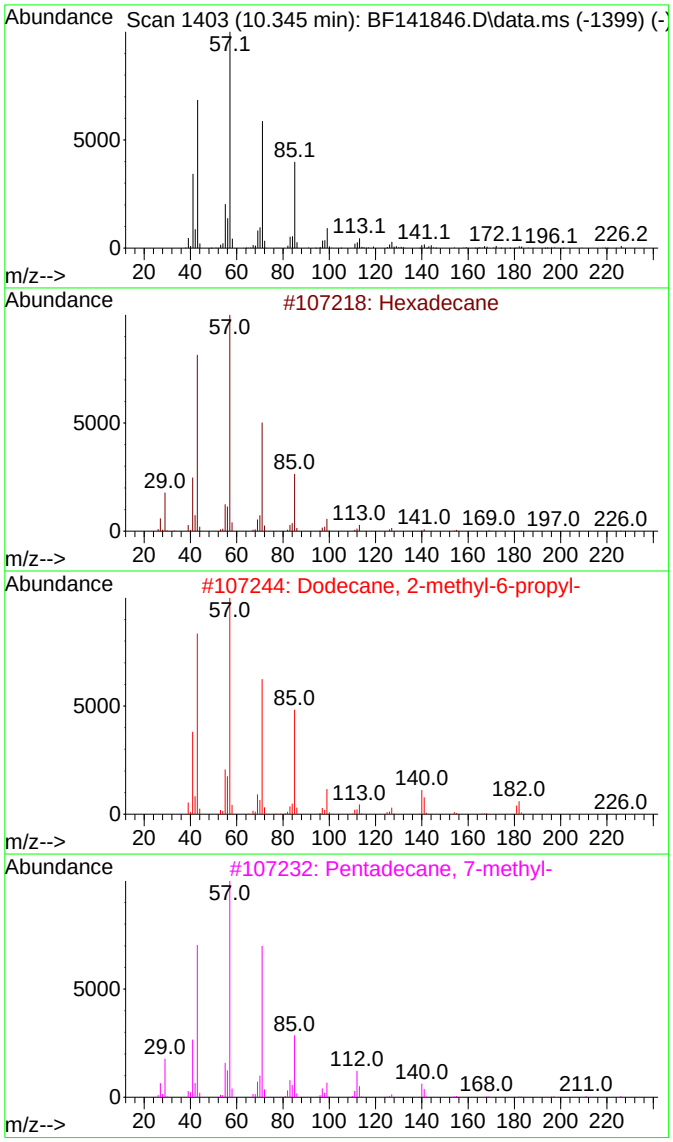
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

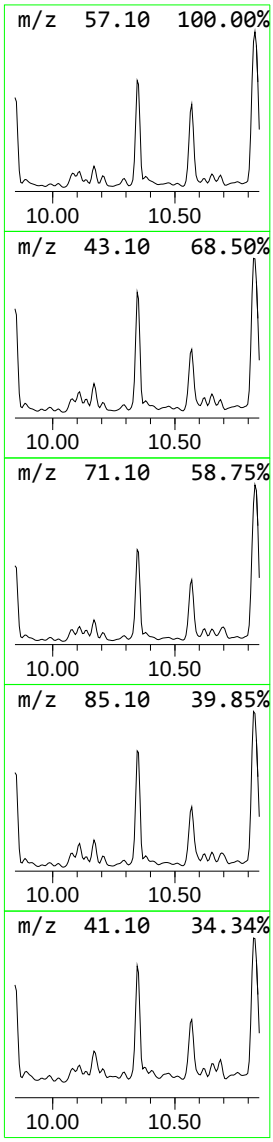
****

Peak Number 7 Hexadecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.345	10.30 ng	823268	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	97
2	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	86
3	Pentadecane, 7-methyl-	226	C16H34	006165-40-8	81
4	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	80
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

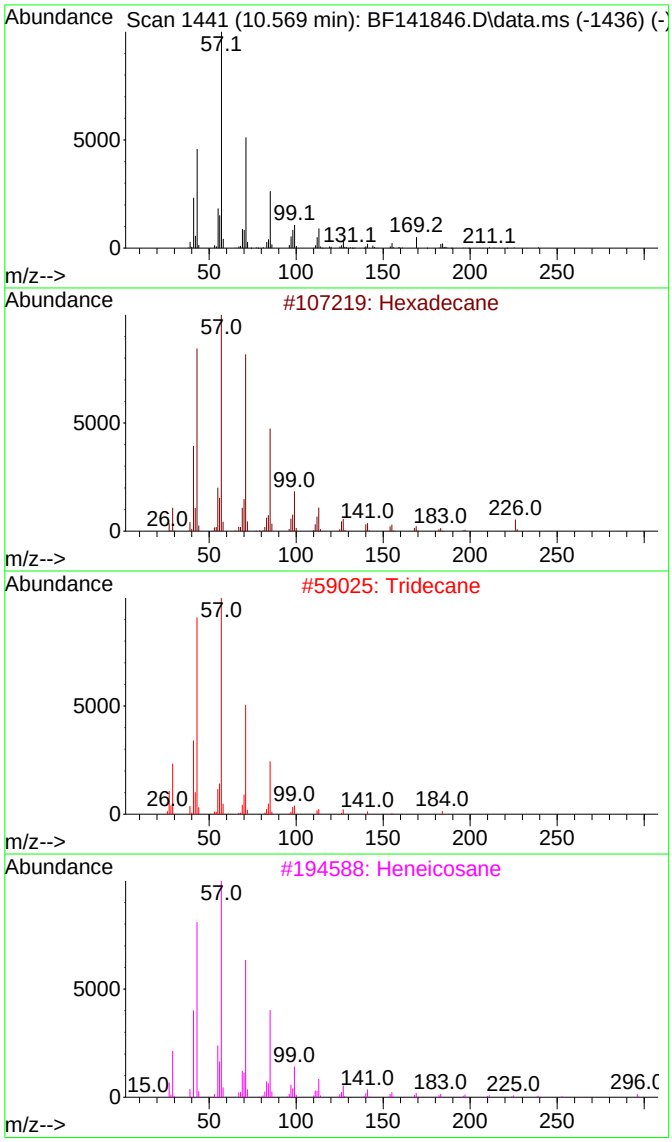
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

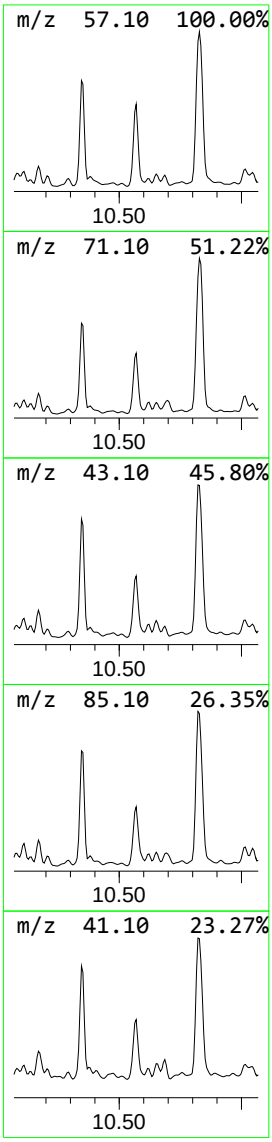
****

Peak Number 8 Tridecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.569	8.22 ng	657093	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	80
2	Tridecane	184	C13H28	000629-50-5	72
3	Heneicosane	296	C21H44	000629-94-7	72
4	Eicosane	282	C20H42	000112-95-8	64
5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

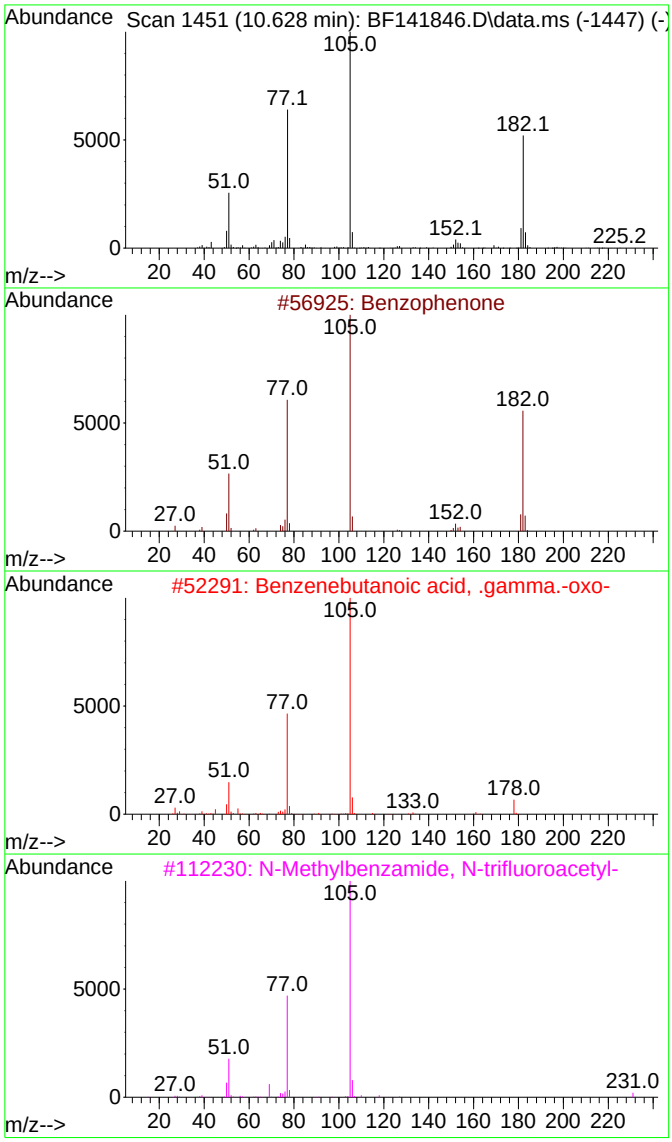
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

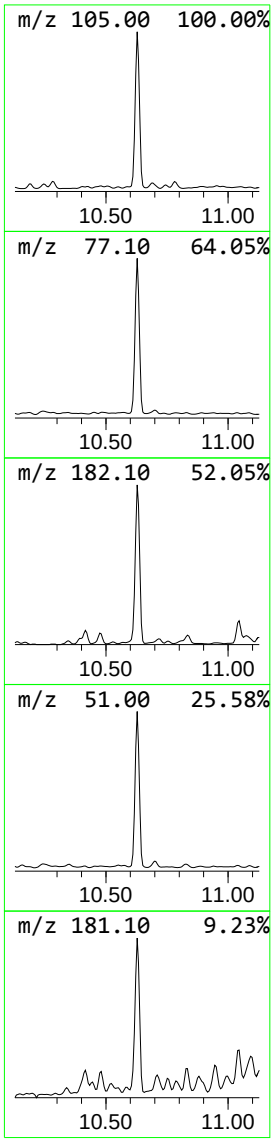
****

Peak Number 9 Benzophenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	6.26 ng	500450	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
3	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
4	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47
5	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

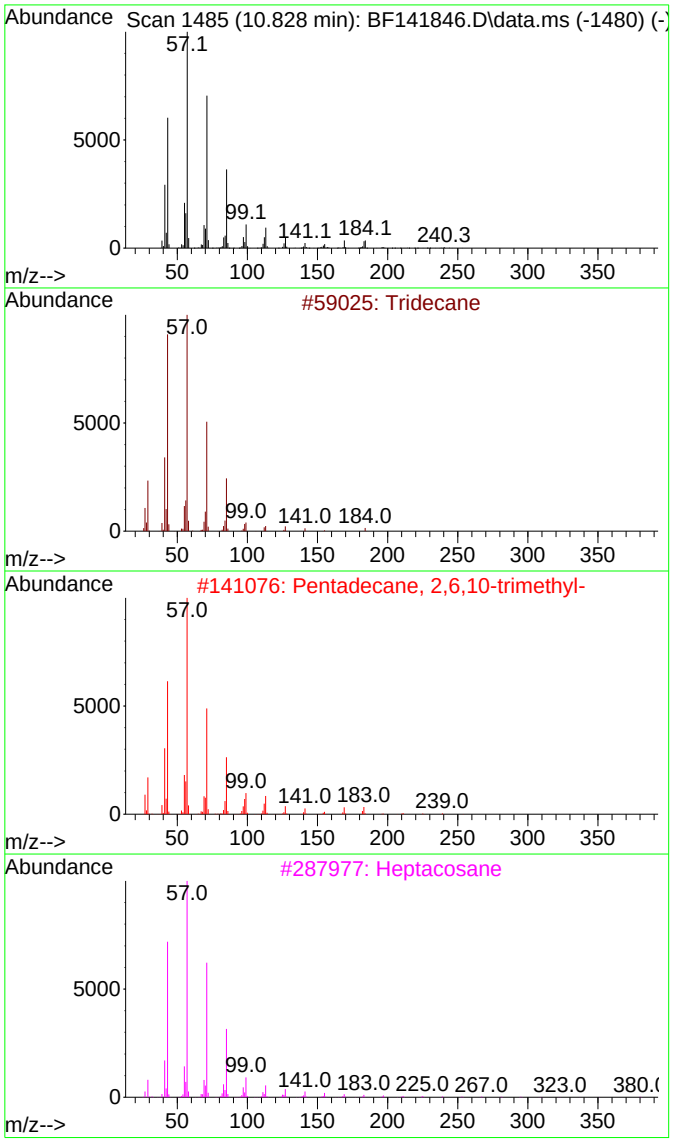
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

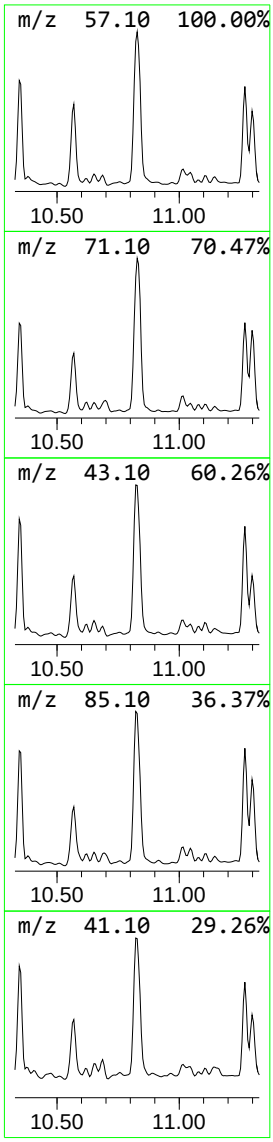
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Pentadecane, 2,6,10-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.828	26.61 ng	1822460	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	90
2	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	90
3	Heptacosane	380	C27H56	000593-49-7	87
4	Eicosane	282	C20H42	000112-95-8	86
5	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

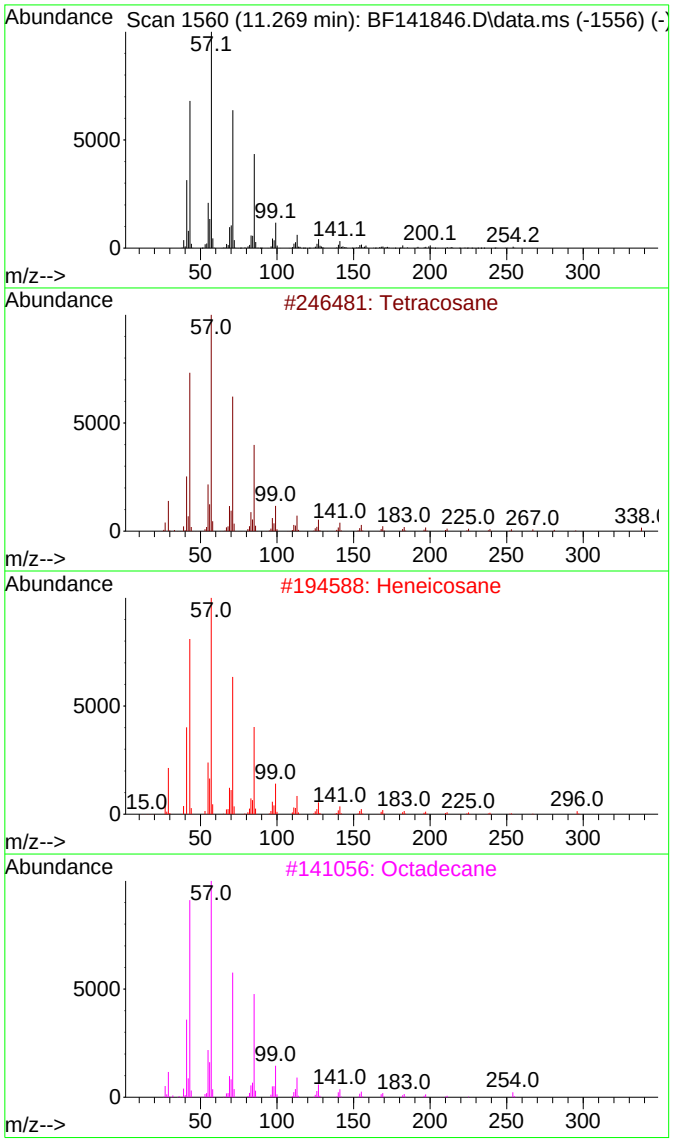
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

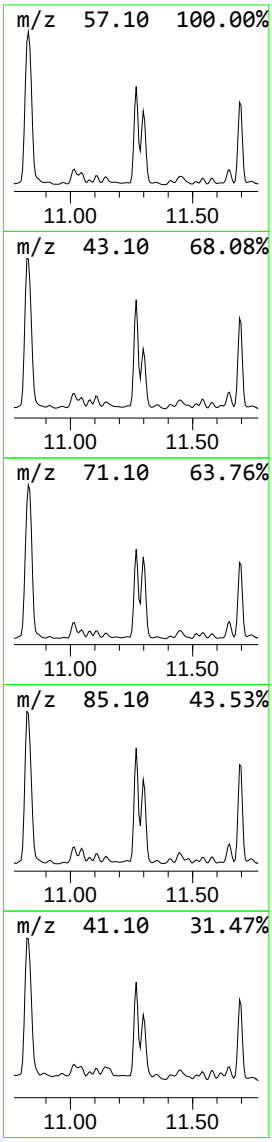
****

Peak Number 11 Tetracosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.269	12.87 ng	881320	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	91
2	Heneicosane	296	C21H44	000629-94-7	91
3	Octadecane	254	C18H38	000593-45-3	90
4	Hexadecane	226	C16H34	000544-76-3	90
5	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

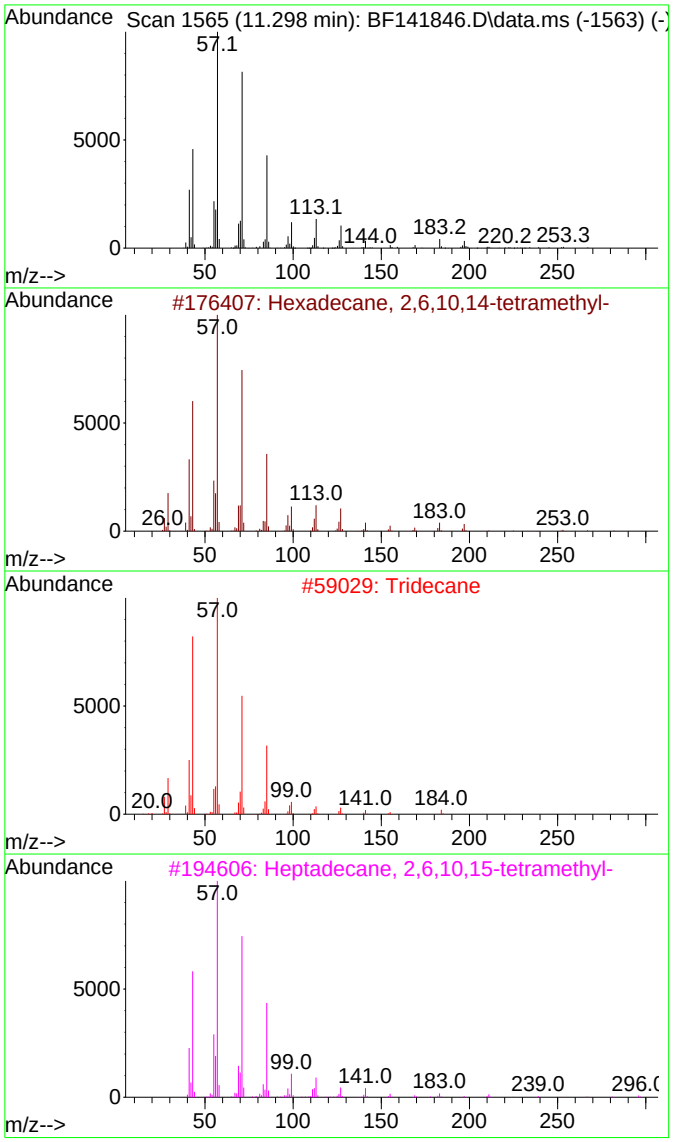
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

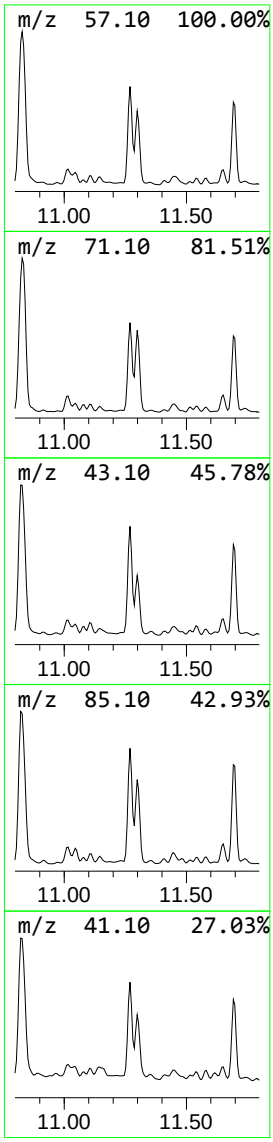
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 12 Hexadecane, 2,6,10,14-tetra... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.298	9.44 ng	646811	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	90
2	Tridecane	184	C13H28	000629-50-5	86
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	86
4	Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	78
5	Tridecane, 6-methyl-	198	C14H30	013287-21-3	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

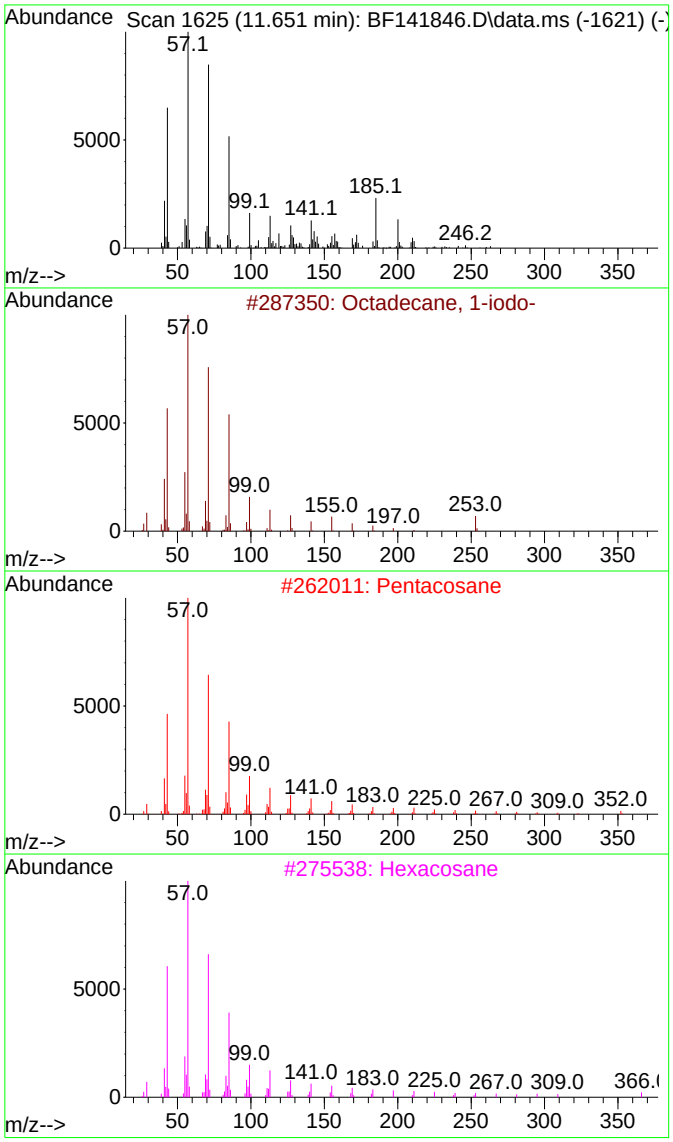
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

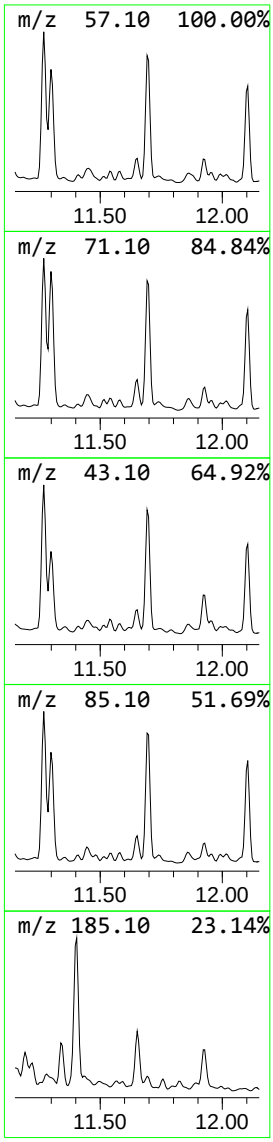
****

Peak Number 13 Octadecane, 1-iodo- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.651	2.57 ng	175695	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	64
2	Pentacosane	352	C25H52	000629-99-2	64
3	Hexacosane	366	C26H54	000630-01-3	64
4	Docosane	310	C22H46	000629-97-0	64
5	Triacontane	422	C30H62	000638-68-6	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

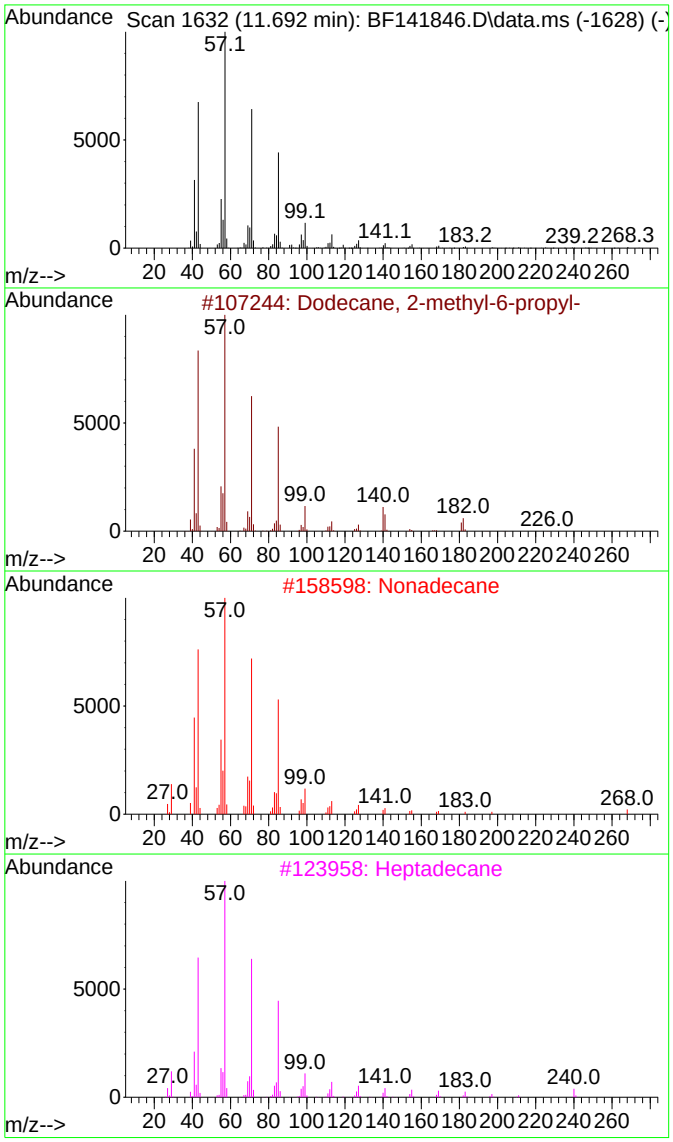
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

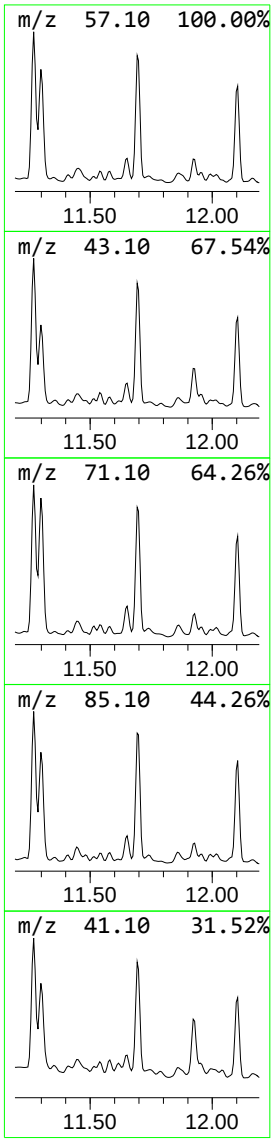
****

Peak Number 14 Nonadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.692	9.87 ng	676189	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	93
2	Nonadecane	268	C19H40	000629-92-5	90
3	Heptadecane	240	C17H36	000629-78-7	90
4	Heneicosane	296	C21H44	000629-94-7	90
5	Tetracosane	338	C24H50	000646-31-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

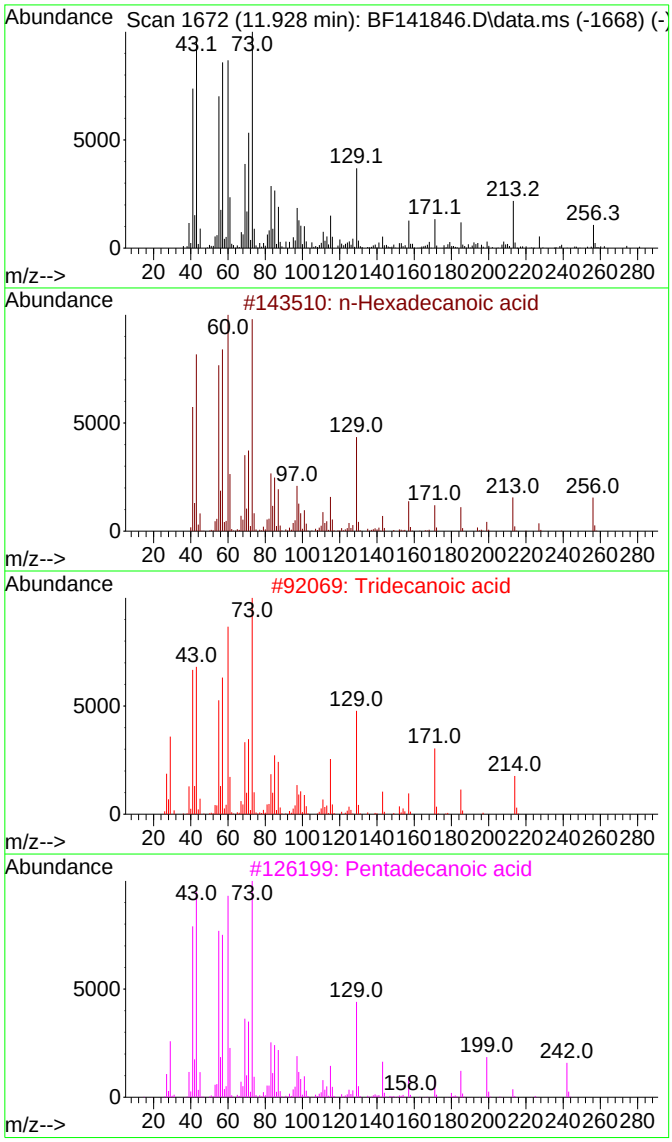
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

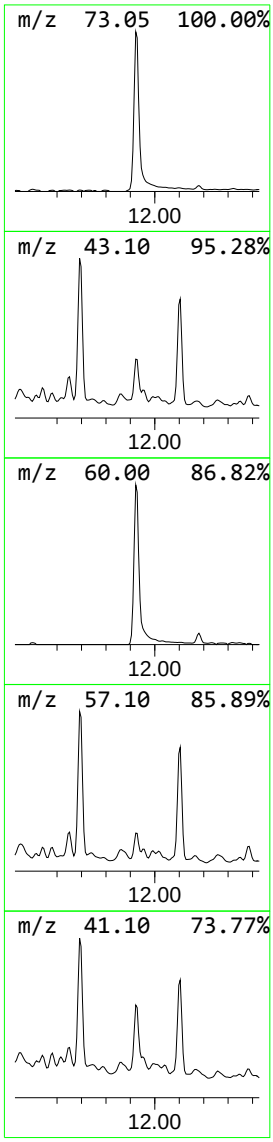
****

Peak Number 15 n-Hexadecanoic acid Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.928	5.33 ng	365338	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	81
4	Nonanoic acid	158	C9H18O2	000112-05-0	43
5	Carbonic acid, eicosyl vinyl ester	368	C23H44O3	1000382-54-3	15





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

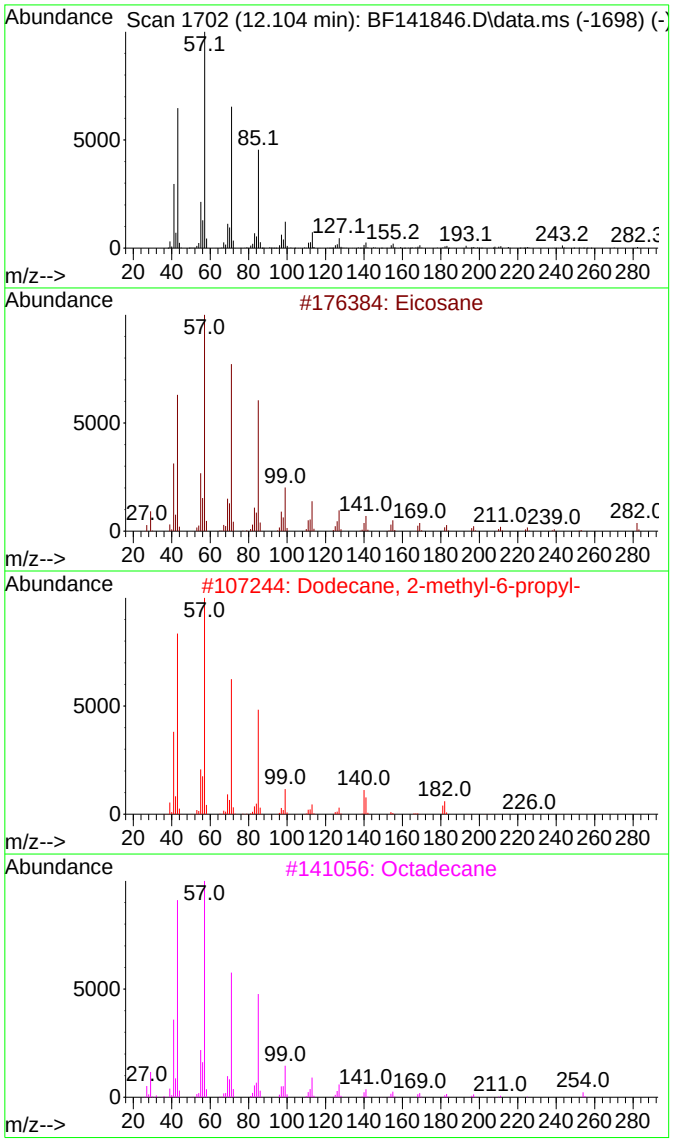
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

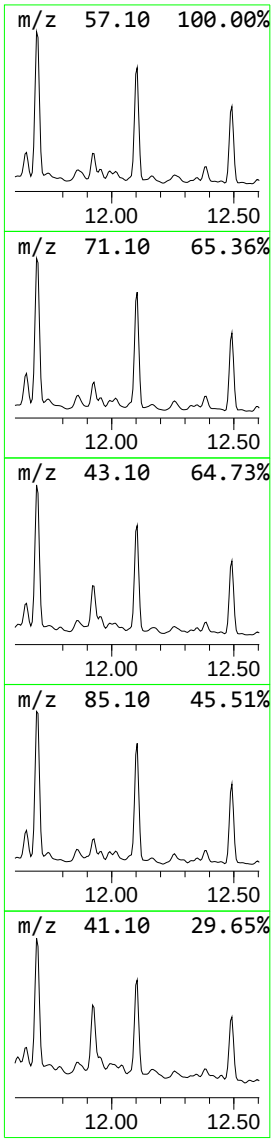
****

Peak Number 16 Eicosane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.104	8.42 ng	576719	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	96
2	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	93
3	Octadecane	254	C18H38	000593-45-3	91
4	Hexadecane	226	C16H34	000544-76-3	90
5	Tetracosane	338	C24H50	000646-31-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

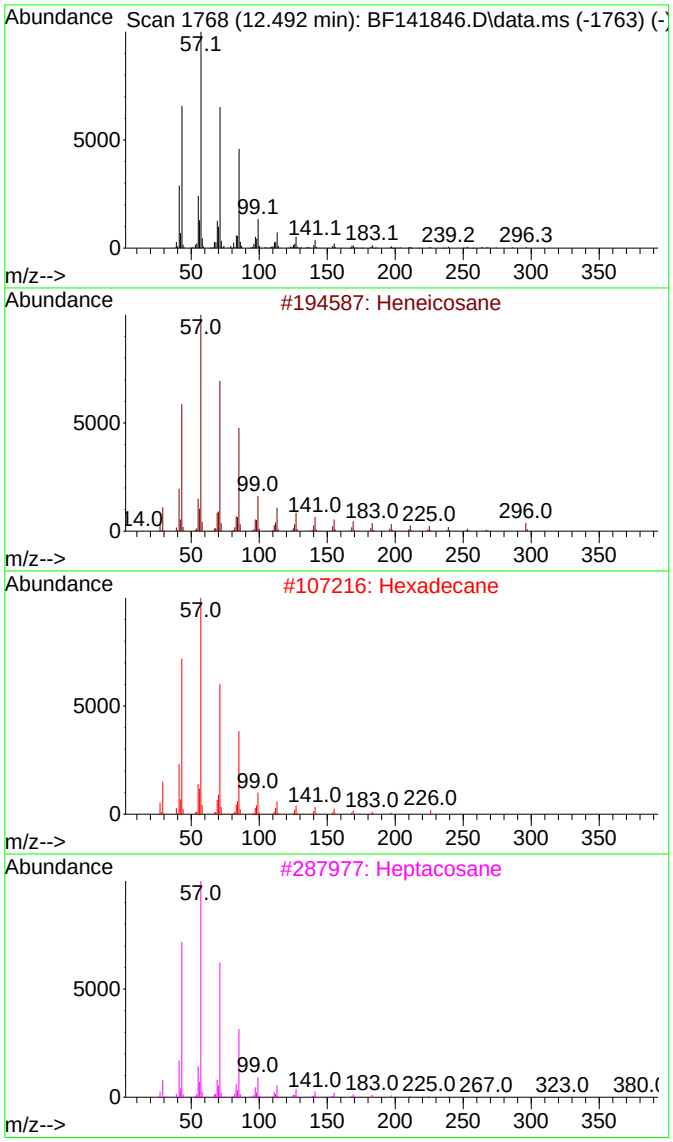
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

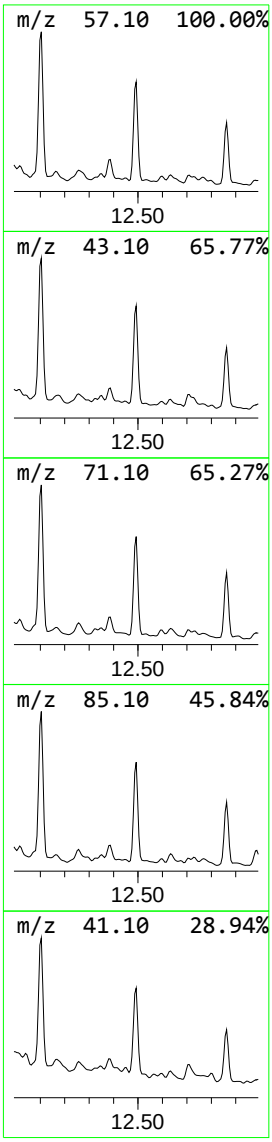
****

Peak Number 17 Heneicosane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.492	6.11 ng	418759	Phenanthrene-d10	11.404

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	97
2	Hexadecane	226	C16H34	000544-76-3	96
3	Heptacosane	380	C27H56	000593-49-7	91
4	Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	91
5	Tetracosane	338	C24H50	000646-31-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

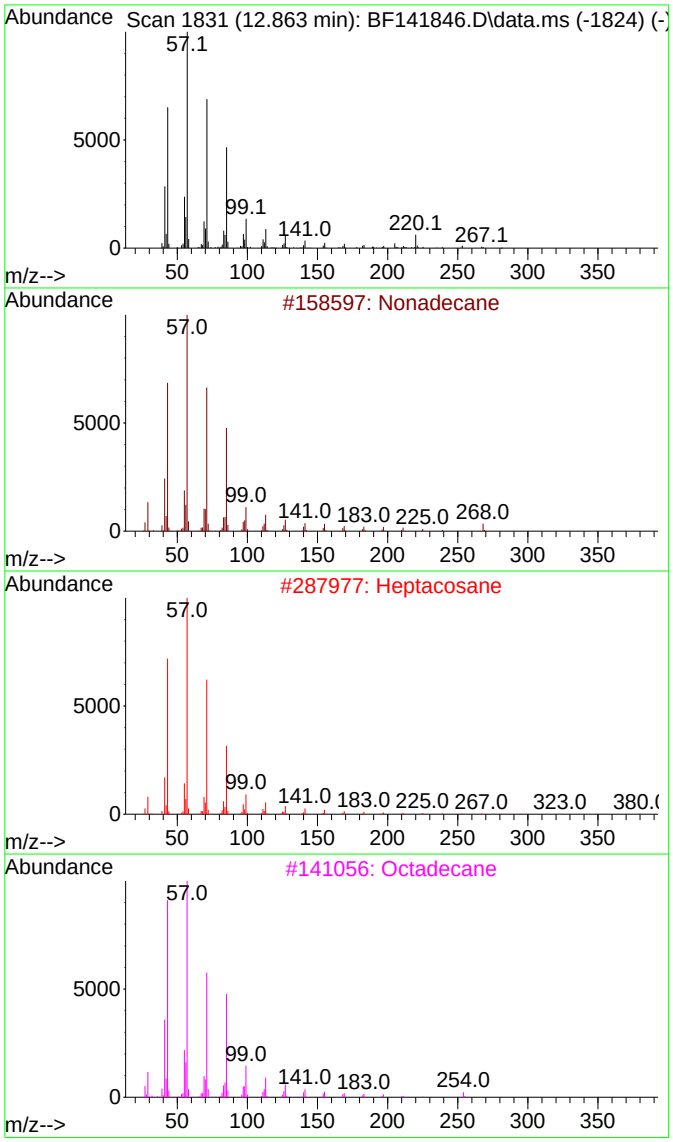
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

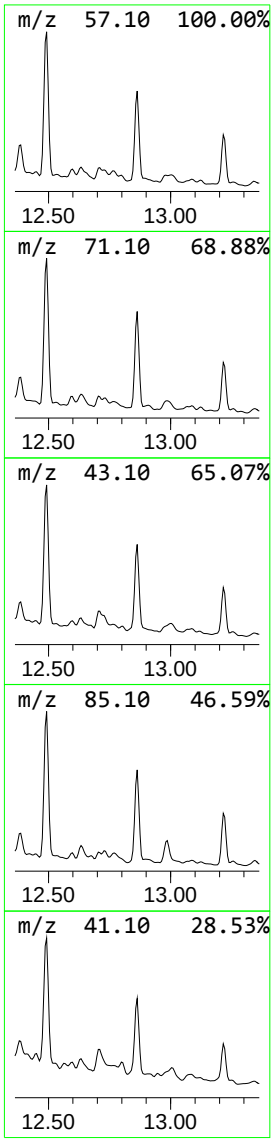
****

Peak Number 18 Heptacosane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.863	4.71 ng	272130	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	94
2	Heptacosane	380	C27H56	000593-49-7	91
3	Octadecane	254	C18H38	000593-45-3	90
4	Tridecane, 3-ethyl-	212	C15H32	013286-73-2	90
5	Heneicosane	296	C21H44	000629-94-7	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

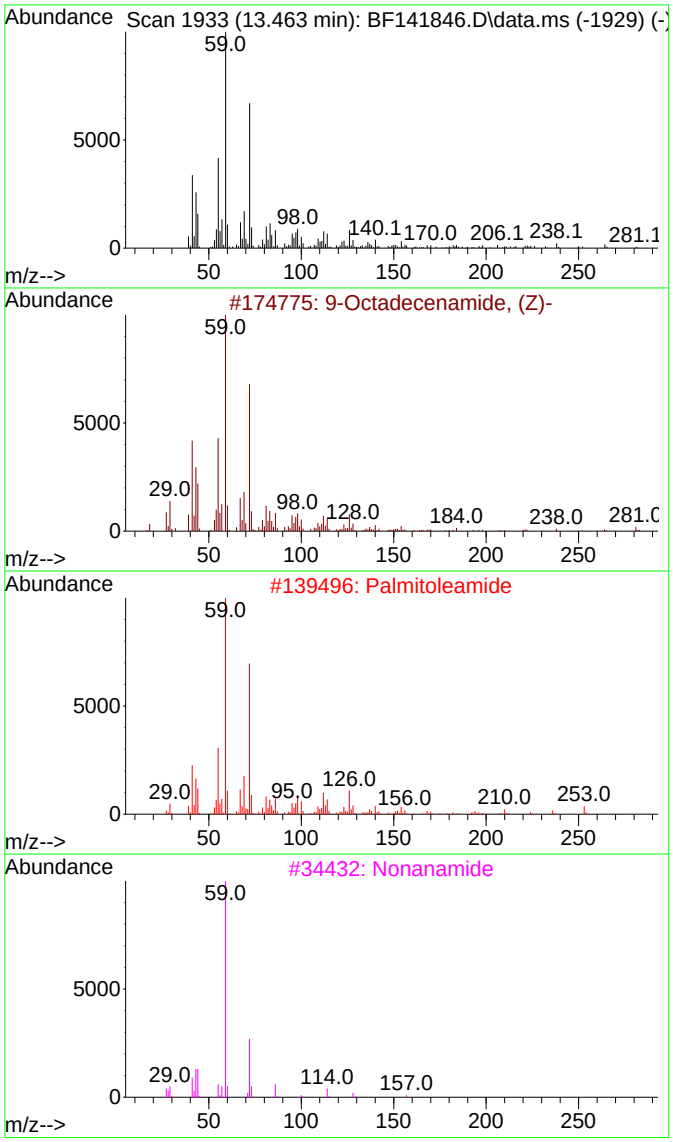
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

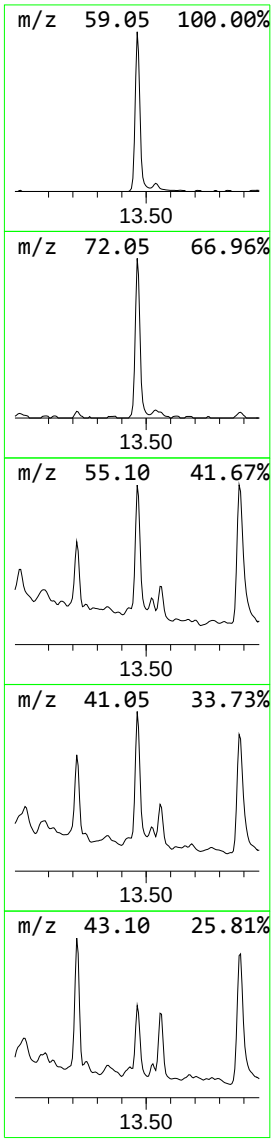
****

Peak Number 19 9-Octadecenamide, (Z)- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.463	3.84 ng	221912	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Octadecenamide, (Z)-	281	C18H35NO	000301-02-0	98
2	Palmitoleamide	253	C16H31NO	106010-22-4	80
3	Nonanamide	157	C9H19NO	001120-07-6	64
4	Dodecanamide	199	C12H25NO	001120-16-7	64
5	Octanamide	143	C8H17NO	000629-01-6	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

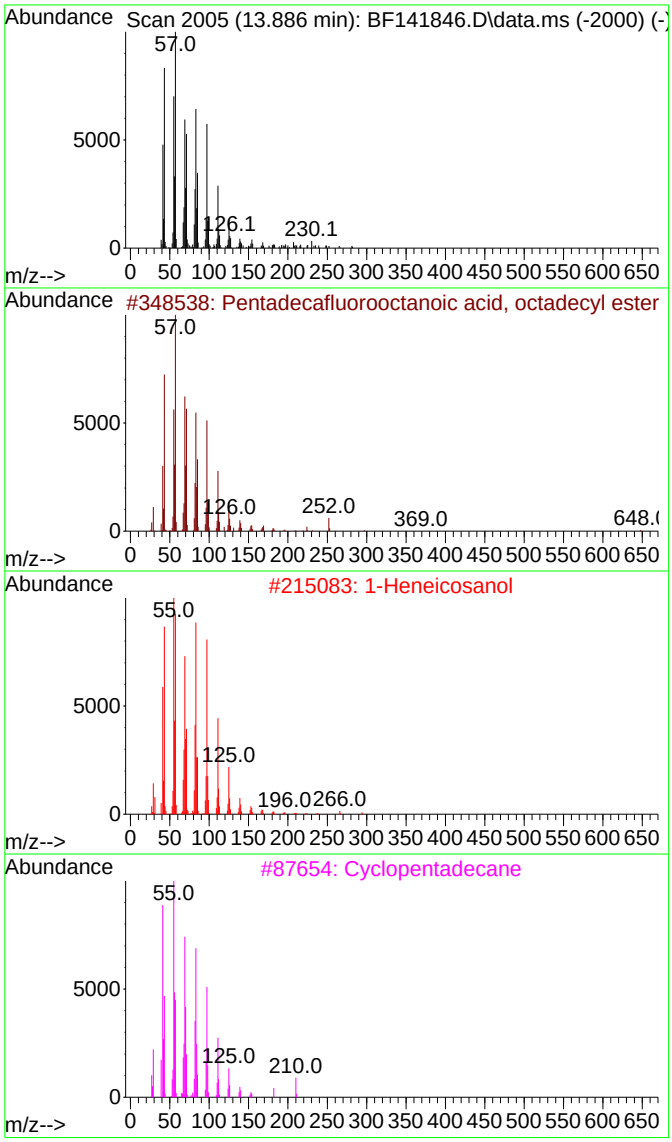
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

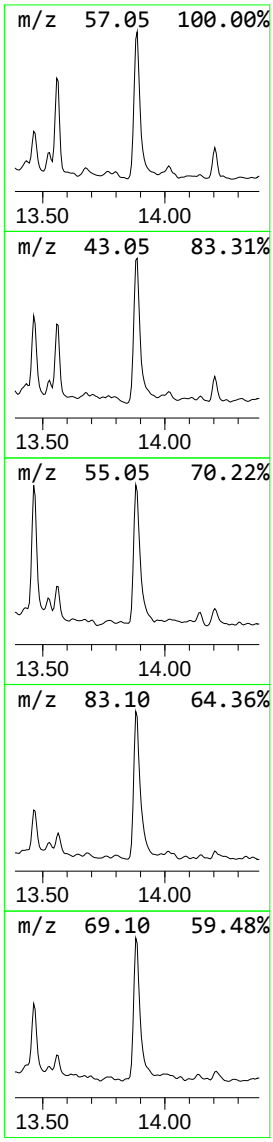
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 20 Pentadecafluorooctanoic aci... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.886	4.95 ng	286048	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
2	1-Heneicosanol	312	C21H44O	015594-90-8	93
3	Cyclopentadecane	210	C15H30	000295-48-7	92
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141846.D
Acq On : 05 Mar 2025 16:21
Operator : RC/JU
Sample : Q1487-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.175	37.5	ng	2061000	1	6.887	1100250	20.0
Tetradecane	9.316	5.6	ng	444411	3	9.916	1598900	20.0
Naphthalene, 1,...	9.575	2.7	ng	216026	3	9.916	1598900	20.0
Decane, 5-propyl-	9.639	8.6	ng	690885	3	9.916	1598900	20.0
Dodecane, 2-met...	9.845	9.9	ng	792892	3	9.916	1598900	20.0
Octacosane	10.169	3.1	ng	244735	3	9.916	1598900	20.0
Hexadecane	10.345	10.3	ng	823268	3	9.916	1598900	20.0
Tridecane	10.569	8.2	ng	657093	3	9.916	1598900	20.0
Benzophenone	10.628	6.3	ng	500450	3	9.916	1598900	20.0
Pentadecane, 2,...	10.828	26.6	ng	1822460	4	11.404	1369650	20.0
Tetracosane	11.269	12.9	ng	881320	4	11.404	1369650	20.0
Hexadecane, 2,6...	11.298	9.4	ng	646811	4	11.404	1369650	20.0
Octadecane, 1-i...	11.651	2.6	ng	175695	4	11.404	1369650	20.0
Nonadecane	11.692	9.9	ng	676189	4	11.404	1369650	20.0
n-Hexadecanoic ...	11.928	5.3	ng	365338	4	11.404	1369650	20.0
Eicosane	12.104	8.4	ng	576719	4	11.404	1369650	20.0
Heneicosane	12.492	6.1	ng	418759	4	11.404	1369650	20.0
Heptacosane	12.863	4.7	ng	272130	5	14.033	1156480	20.0
9-Octadecenamid...	13.463	3.8	ng	221912	5	14.033	1156480	20.0
Pentadecafluoro...	13.886	5.0	ng	286048	5	14.033	1156480	20.0

CALIBRATION SUMMARY

Raw Data

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: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.252	6.9
Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.948	16.8
Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.630	6.9
Phenol		1.854	1.823	1.866	1.819	1.641	1.742	7.3
bis(2-Chloroethyl)ether		1.377	1.376	1.392	1.339	1.279	1.328	4.3
2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.355	6.7
2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.118	4.2
2,2-oxybis(1-Chloropropane)		2.139	2.094	2.149	2.079	1.930	2.016	6.5
Acetophenone		0.539	0.517	0.512	0.497	0.456	0.487	8.0
3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.392	9.3
n-Nitroso-di-n-propylamine	1.133	1.136	1.105	1.120	1.087	1.009	1.072	6.0
Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.313	12.1
Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.547	4.4
Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.335	10.1
Isophorone		0.702	0.682	0.690	0.682	0.642	0.672	3.4
2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.127	25.2
2,4-Dimethylphenol		0.258	0.250	0.256	0.254	0.238	0.247	3.9
bis(2-Chloroethoxy)methane		0.463	0.448	0.450	0.435	0.404	0.429	6.2
2,4-Dichlorophenol		0.280	0.288	0.296	0.298	0.277	0.285	3.2
Naphthalene		1.140	1.097	1.100	1.043	0.960	1.028	8.7
4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.377	5.7
Hexachlorobutadiene		0.199	0.193	0.202	0.199	0.188	0.194	3.0
Caprolactam		0.087	0.086	0.090	0.091	0.085	0.088	2.8
4-Chloro-3-methylphenol		0.333	0.316	0.329	0.326	0.300	0.317	4.2
2-Methylnaphthalene		0.762	0.725	0.723	0.677	0.621	0.674	9.7
Hexachlorocyclopentadiene		0.217	0.230	0.252	0.258	0.246	0.241	5.9
2,4,6-Trichlorophenol		0.355	0.368	0.381	0.398	0.366	0.373	3.7
2-Fluorobiphenyl		1.443	1.387	1.346	1.237	1.128	1.247	11.9
2,4,5-Trichlorophenol		0.348	0.364	0.388	0.383	0.364	0.369	3.9
1,1-Biphenyl		1.694	1.659	1.630	1.519	1.413	1.522	9.4
2-Chloronaphthalene		1.211	1.184	1.201	1.135	1.058	1.124	7.1
2-Nitroaniline		0.152	0.187	0.246	0.300	0.297	0.260	26.0
Dimethylphthalate		1.431	1.405	1.405	1.363	1.262	1.339	6.1
Acenaphthylene		1.847	1.809	1.798	1.711	1.560	1.685	8.5

All other compounds must meet a minimum RRF of 0.010.

Raw Data

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: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.136	0.184	0.231	0.257	0.251	0.226	21.5
3-Nitroaniline		0.146	0.193	0.243	0.277	0.264	0.241	21.7
Acenaphthene		1.217	1.201	1.197	1.150	1.068	1.137	6.4
2,4-Dinitrophenol			0.049	0.066	0.093	0.096	0.089	29.7
4-Nitrophenol		0.129	0.159	0.197	0.228	0.215	0.198	19.9
Dibenzofuran		1.850	1.794	1.765	1.663	1.532	1.654	9.4
2,4-Dinitrotoluene		0.151	0.198	0.265	0.313	0.310	0.269	25.6
Diethylphthalate		1.429	1.413	1.428	1.383	1.259	1.343	6.8
4-Chlorophenyl-phenylether		0.691	0.665	0.654	0.620	0.572	0.621	8.1
Fluorene		1.433	1.367	1.313	1.228	1.128	1.239	11.0
4-Nitroaniline		0.149	0.187	0.229	0.267	0.248	0.229	19.5
4,6-Dinitro-2-methylphenol			0.043	0.063	0.087	0.090	0.081	28.9
n-Nitrosodiphenylamine		0.702	0.681	0.689	0.665	0.631	0.657	5.6
2,4,6-Tribromophenol		0.175	0.179	0.188	0.199	0.183	0.188	4.8
4-Bromophenyl-phenylether		0.241	0.237	0.239	0.238	0.227	0.234	2.9
Hexachlorobenzene		0.253	0.249	0.255	0.251	0.240	0.247	2.8
Atrazine		0.213	0.208	0.196	0.179	0.149	0.181	17.1
Pentachlorophenol		0.137	0.146	0.161	0.169	0.159	0.156	7.1
Phenanthrene		1.186	1.152	1.134	1.073	1.001	1.070	8.6
Anthracene		1.203	1.156	1.155	1.068	1.002	1.072	9.5
Carbazole		1.074	1.010	1.014	0.955	0.882	0.947	9.7
Di-n-butylphthalate		1.335	1.291	1.291	1.208	1.128	1.200	9.3
Fluoranthene		1.285	1.217	1.192	1.089	0.992	1.096	12.7
Pyrene		1.698	1.687	1.815	1.796	1.738	1.732	3.3
Terphenyl-d14		1.250	1.233	1.297	1.259	1.230	1.236	3.4
Butylbenzylphthalate		0.546	0.579	0.643	0.668	0.650	0.629	7.5
3,3-Dichlorobenzidine		0.406	0.380	0.382	0.393	0.364	0.379	4.3
Benzo(a)anthracene		1.367	1.387	1.384	1.312	1.244	1.321	4.5
Chrysene		1.303	1.184	1.235	1.265	1.185	1.218	4.4
Bis(2-ethylhexyl)phthalate		0.702	0.696	0.788	0.832	0.811	0.783	7.6
Di-n-octyl phthalate		0.903	0.922	1.109	1.307	1.304	1.173	16.6
Benzo(b)fluoranthene		1.442	1.396	1.533	1.306	1.232	1.362	7.8
Benzo(k)fluoranthene		1.274	1.240	1.098	1.214	1.165	1.158	7.7
Benzo(a)pyrene		1.113	1.083	1.133	1.119	1.060	1.093	2.7
Indeno(1,2,3-cd)pyrene		1.097	1.126	1.240	1.346	1.337	1.274	9.5

All other compounds must meet a minimum RRF of 0.010.

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: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		0.902	0.931	1.025	1.109	1.094	1.040	8.6
Benzo(g,h,i)perylene		0.898	0.929	1.034	1.130	1.129	1.065	10.6
1,2,4,5-Tetrachlorobenzene		0.609	0.600	0.602	0.589	0.549	0.578	5.0
1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.568	4.8
2,3,4,6-Tetrachlorophenol		0.313	0.314	0.336	0.339	0.309	0.321	3.7

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-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141793.D 5 =BF141794.D 10 =BF141795.D 20 =BF141796.D 40 =BF141797.D 50 =BF141798.D 60 =BF141799.D 80 =BF141800.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.554	0.541	0.568	4.81
3)		Pyridine		1.403	1.412	1.486	1.476	1.380	1.389	1.350	1.414	3.54
4)		n-Nitrosodimet...		0.634	0.666	0.689	0.730	0.674	0.686	0.683	0.680	4.21
5)	S	2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.176	1.131	1.252	6.91
6)		Aniline		1.746	1.727	1.805	1.809	1.642	1.625	1.509	1.695	6.42
7)	S	Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.523	1.477	1.630	6.90
8)		2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.266	1.220	1.355	6.72
9)		Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.824	0.694	0.948	16.84
10)	C	Phenol		1.854	1.823	1.866	1.819	1.641	1.625	1.564	1.742	7.26
11)		bis(2-Chloroet...		1.377	1.376	1.392	1.339	1.279	1.265	1.265	1.328	4.26
12)		1,3-Dichlorobe...		1.544	1.520	1.541	1.504	1.378	1.361	1.308	1.451	6.80
13)	C	1,4-Dichlorobe...		1.554	1.533	1.549	1.512	1.390	1.377	1.317	1.462	6.66
14)		1,2-Dichlorobe...		1.493	1.444	1.476	1.401	1.286	1.270	1.186	1.365	8.63
15)		Benzyl Alcohol		1.347	1.353	1.374	1.366	1.258	1.241	1.180	1.303	5.82
16)		2,2'-oxybis(1-...		2.139	2.094	2.149	2.079	1.930	1.910	1.814	2.016	6.47
17)		2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.084	1.049	1.118	4.22
18)		Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.530	0.513	0.547	4.39
19)	P	n-Nitroso-di-n...	1.133	1.136	1.105	1.120	1.087	1.009	1.007	0.975	1.072	6.01
20)		3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.281	1.198	1.392	9.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.539	0.517	0.512	0.497	0.456	0.455	0.434	0.487	8.04
23)	S	Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.340	0.339	0.313	12.10
24)		Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.357	0.354	0.335	10.07
25)		Isophorone		0.702	0.682	0.690	0.682	0.642	0.659	0.649	0.672	3.35
26)	C	2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.155	0.158	0.127	25.21
27)		2,4-Dimethylph...		0.258	0.250	0.256	0.254	0.238	0.238	0.236	0.247	3.87
28)		bis(2-Chloroet...		0.463	0.448	0.450	0.435	0.404	0.408	0.394	0.429	6.19
29)	C	2,4-Dichloroph...		0.280	0.288	0.296	0.298	0.277	0.281	0.275	0.285	3.20
30)		1,2,4-Trichlor...		0.328	0.321	0.327	0.319	0.298	0.301	0.292	0.312	4.71
31)		Naphthalene		1.140	1.097	1.100	1.043	0.960	0.950	0.906	1.028	8.74
32)		Benzoic acid			0.099	0.145	0.191	0.200	0.215	0.226	0.179	26.89
33)		4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.356	0.360	0.377	5.66
34)	C	Hexachlorobuta...		0.199	0.193	0.202	0.199	0.188	0.191	0.187	0.194	2.98
35)		Caprolactam		0.087	0.086	0.090	0.091	0.085	0.089	0.086	0.088	2.77
36)	C	4-Chloro-3-met...		0.333	0.316	0.329	0.326	0.300	0.310	0.303	0.317	4.16
37)		2-Methylnaphth...		0.762	0.725	0.723	0.677	0.621	0.619	0.591	0.674	9.66
38)		1-Methylnaphth...		0.734	0.688	0.697	0.652	0.594	0.594	0.570	0.647	9.67

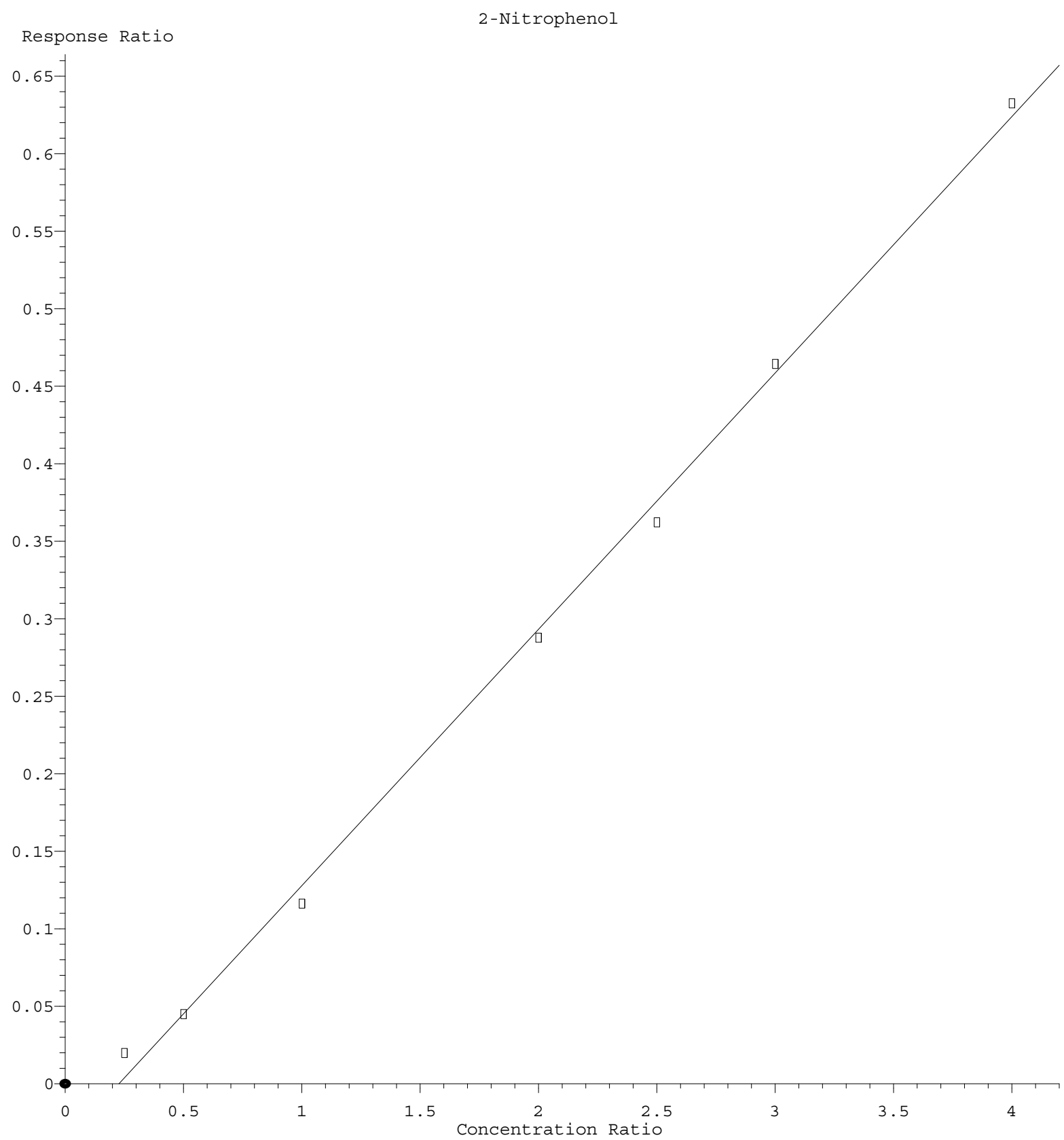
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	0.355	0.368	0.381	0.398	0.366	0.368	0.377	0.373	3.65
44)		2,4,5-Trichlor...	0.348	0.364	0.388	0.383	0.364	0.380	0.360	0.369	3.89
45)	S	2-Fluorobiphenyl	1.443	1.387	1.346	1.237	1.128	1.141	1.049	1.247	11.93
46)		1,1'-Biphenyl	1.694	1.659	1.630	1.519	1.413	1.419	1.323	1.522	9.38
47)		2-Chloronaphth...	1.211	1.184	1.201	1.135	1.058	1.071	1.006	1.124	7.10
48)		2-Nitroaniline	0.152	0.187	0.246	0.300	0.297	0.319	0.323	0.260	26.00
49)		Acenaphthylene	1.847	1.809	1.798	1.711	1.560	1.596	1.472	1.685	8.54
50)		Dimethylphthalate	1.431	1.405	1.405	1.363	1.262	1.285	1.224	1.339	6.09
51)		2,6-Dinitrotol...	0.136	0.184	0.231	0.257	0.251	0.265	0.261	0.226	21.50
52)	C	Acenaphthene	1.217	1.201	1.197	1.150	1.068	1.084	1.039	1.137	6.37
53)		3-Nitroaniline	0.146	0.193	0.243	0.277	0.264	0.282	0.280	0.241	21.68
54)	P	2,4-Dinitrophenol		0.049	0.066	0.093	0.096	0.112	0.116	0.089	29.73
55)		Dibenzofuran	1.850	1.794	1.765	1.663	1.532	1.542	1.436	1.654	9.40
56)	P	4-Nitrophenol	0.129	0.159	0.197	0.228	0.215	0.229	0.227	0.198	19.87
57)		2,4-Dinitrotol...	0.151	0.198	0.265	0.313	0.310	0.325	0.320	0.269	25.57
58)		Fluorene	1.433	1.367	1.313	1.228	1.128	1.134	1.072	1.239	10.97
59)		2,3,4,6-Tetrac...	0.313	0.314	0.336	0.339	0.309	0.322	0.315	0.321	3.66
60)		Diethylphthalate	1.429	1.413	1.428	1.383	1.259	1.275	1.212	1.343	6.78
61)		4-Chlorophenyl...	0.691	0.665	0.654	0.620	0.572	0.583	0.562	0.621	8.09
62)		4-Nitroaniline	0.149	0.187	0.229	0.267	0.248	0.265	0.256	0.229	19.54
63)		Azobenzene	1.544	1.503	1.505	1.437	1.320	1.325	1.262	1.414	7.81
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.043	0.063	0.087	0.090	0.100	0.103	0.081	28.86
66)	c	n-Nitrosodiphe...	0.702	0.681	0.689	0.665	0.631	0.623	0.607	0.657	5.56
67)		4-Bromophenyl-...	0.241	0.237	0.239	0.238	0.227	0.230	0.224	0.234	2.86
68)		Hexachlorobenzene	0.253	0.249	0.255	0.251	0.240	0.242	0.237	0.247	2.79
69)		Atrazine	0.213	0.208	0.196	0.179	0.149	0.139		0.181	17.11
70)	C	Pentachlorophenol	0.137	0.146	0.161	0.169	0.159	0.164	0.160	0.156	7.07
71)		Phenanthrene	1.186	1.152	1.134	1.073	1.001	1.001	0.940	1.070	8.58
72)		Anthracene	1.203	1.156	1.155	1.068	1.002	0.990	0.931	1.072	9.54
73)		Carbazole	1.074	1.010	1.014	0.955	0.882	0.871	0.821	0.947	9.69
74)		Di-n-butylphth...	1.335	1.291	1.291	1.208	1.128	1.114	1.035	1.200	9.30
75)	C	Fluoranthene	1.285	1.216	1.192	1.089	0.992	0.981	0.917	1.096	12.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.342	0.198	0.259	0.214	0.181	0.316	0.252	26.09
78)		Pyrene	1.698	1.687	1.815	1.796	1.738	1.734	1.656	1.732	3.32
79)	S	Terphenyl-d14	1.250	1.233	1.297	1.259	1.230	1.227	1.157	1.236	3.43
80)		Butylbenzylpht...	0.546	0.579	0.643	0.668	0.650	0.667	0.652	0.629	7.54
81)		Benzo(a)anthra...	1.367	1.387	1.384	1.312	1.244	1.262	1.292	1.321	4.46
82)		3,3'-Dichlorob...	0.406	0.380	0.382	0.393	0.364	0.364	0.365	0.379	4.27
83)		Chrysene	1.303	1.184	1.235	1.265	1.185	1.209	1.144	1.218	4.42
84)		Bis(2-ethylhex...	0.702	0.696	0.788	0.832	0.811	0.828	0.827	0.783	7.59
85)	c	Di-n-octyl pht...	0.903	0.922	1.109	1.307	1.304	1.318	1.348	1.173	16.59

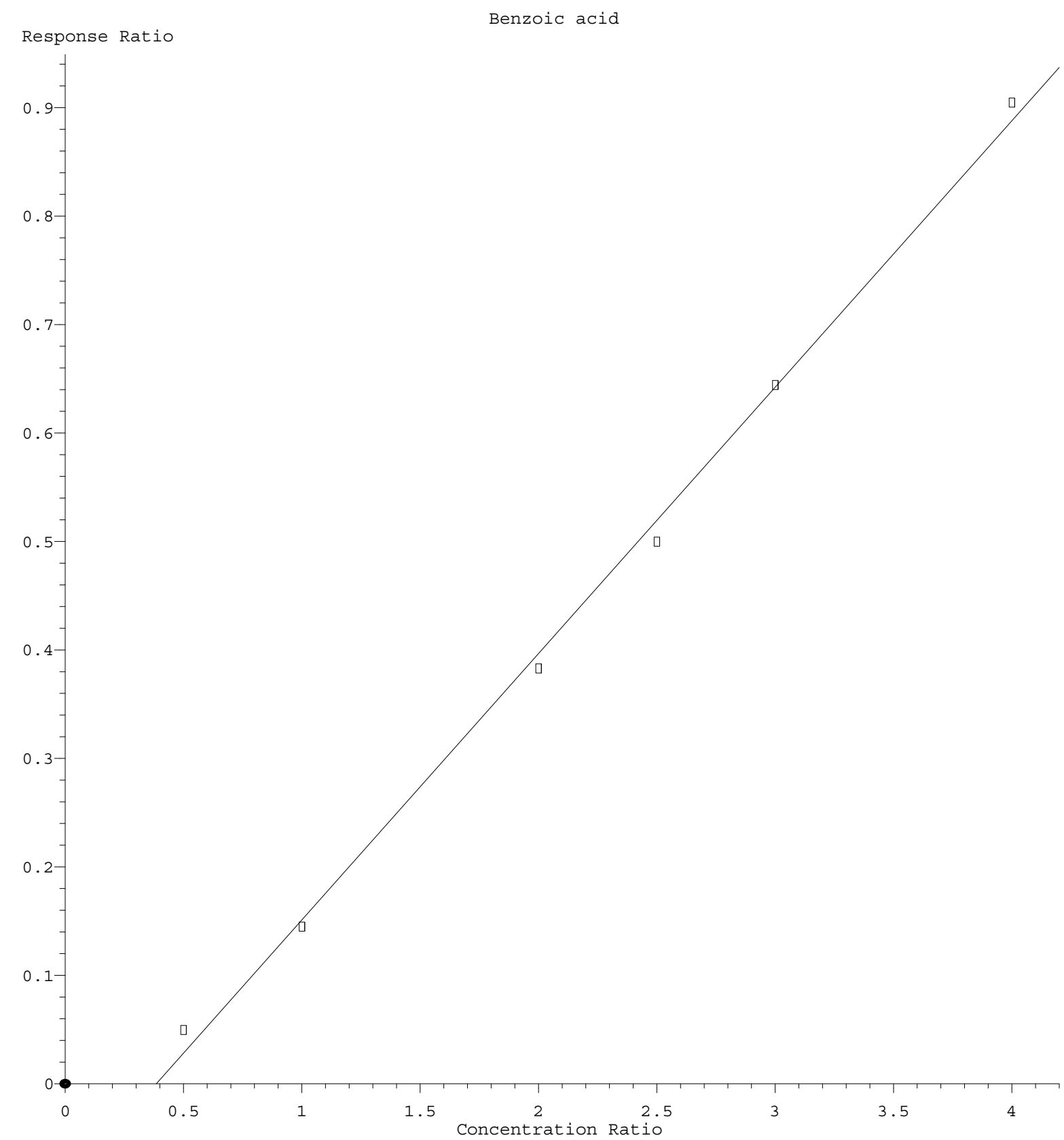
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

86)	I	Perylene-d12	----------ISTD----------								
87)		Indeno(1,2,3-c...	1.097	1.126	1.240	1.346	1.337	1.371	1.397	1.274	9.52
88)		Benzo(b)fluora...	1.442	1.396	1.533	1.306	1.232	1.370	1.256	1.362	7.81
89)		Benzo(k)fluora...	1.274	1.240	1.098	1.214	1.165	1.040	1.074	1.158	7.70
90)	C	Benzo(a)pyrene	1.113	1.083	1.133	1.119	1.060	1.080	1.060	1.093	2.68
91)		Dibenzo(a,h)an...	0.902	0.931	1.025	1.109	1.094	1.101	1.115	1.040	8.63
92)		Benzo(g,h,i)pe...	0.898	0.929	1.034	1.130	1.129	1.156	1.179	1.065	10.60

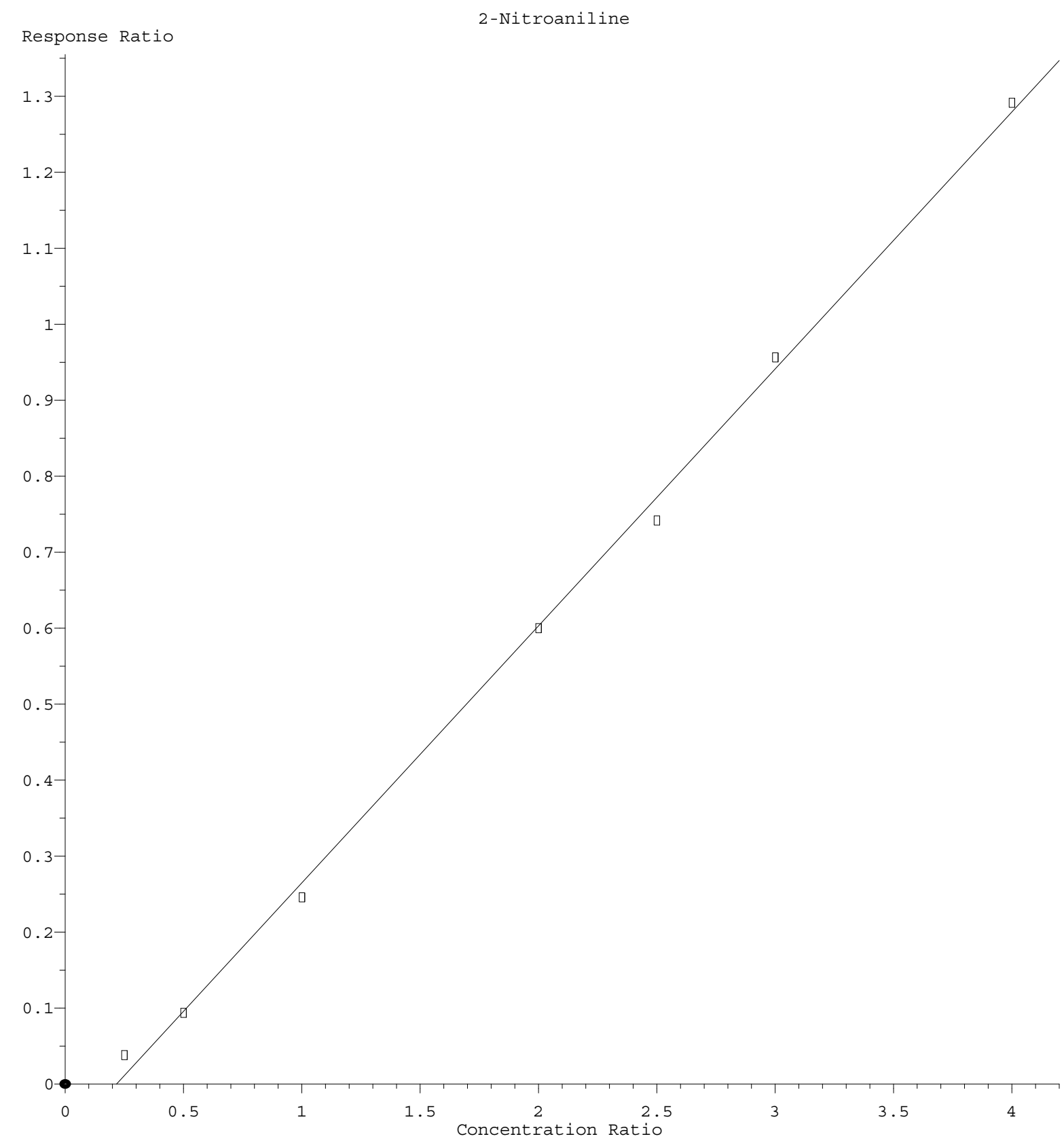
(#) = Out of Range



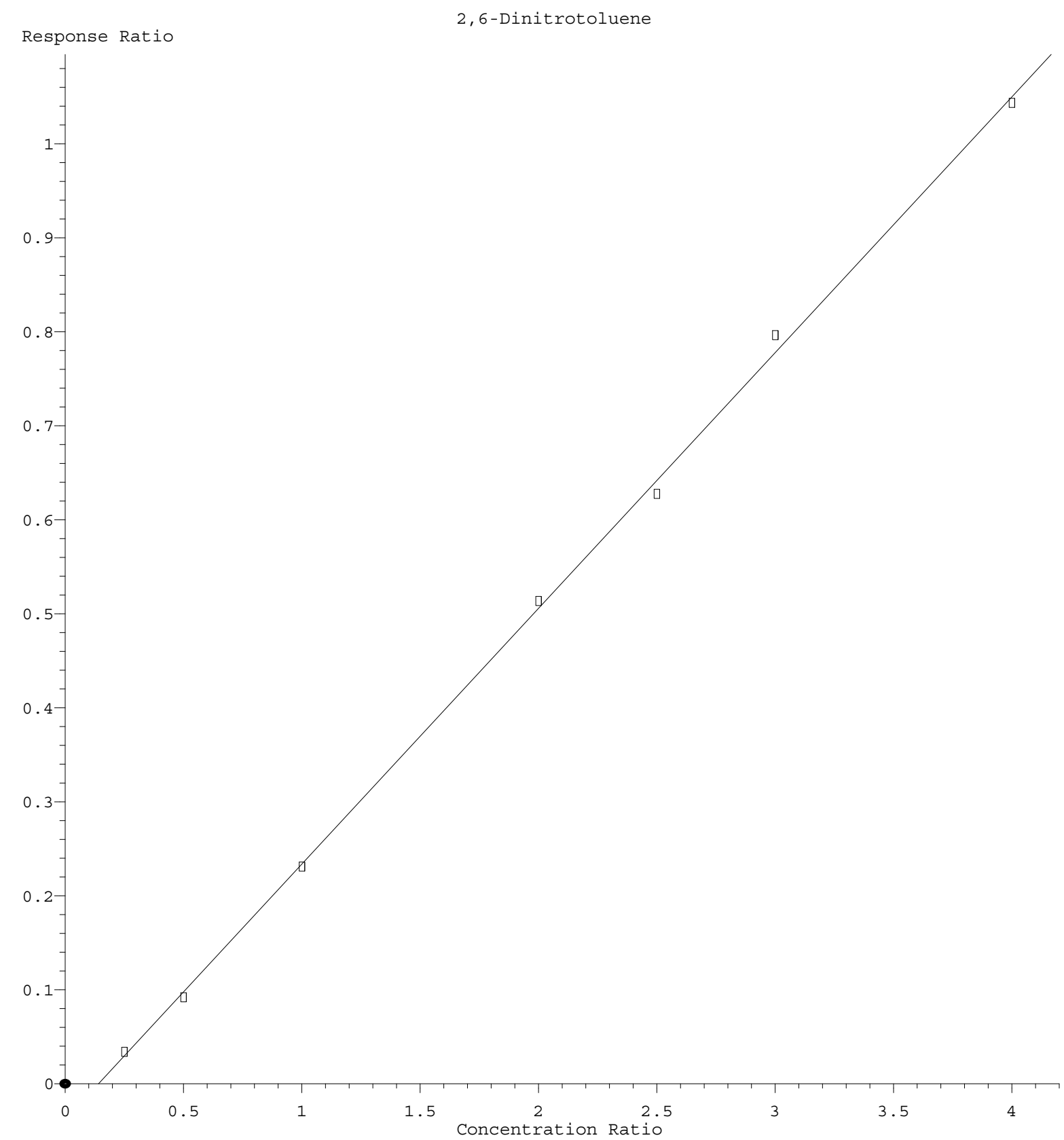
Response = 1.654e-001 * Amt - 3.762e-002
Coef of Det (r^2) = 0.997727 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



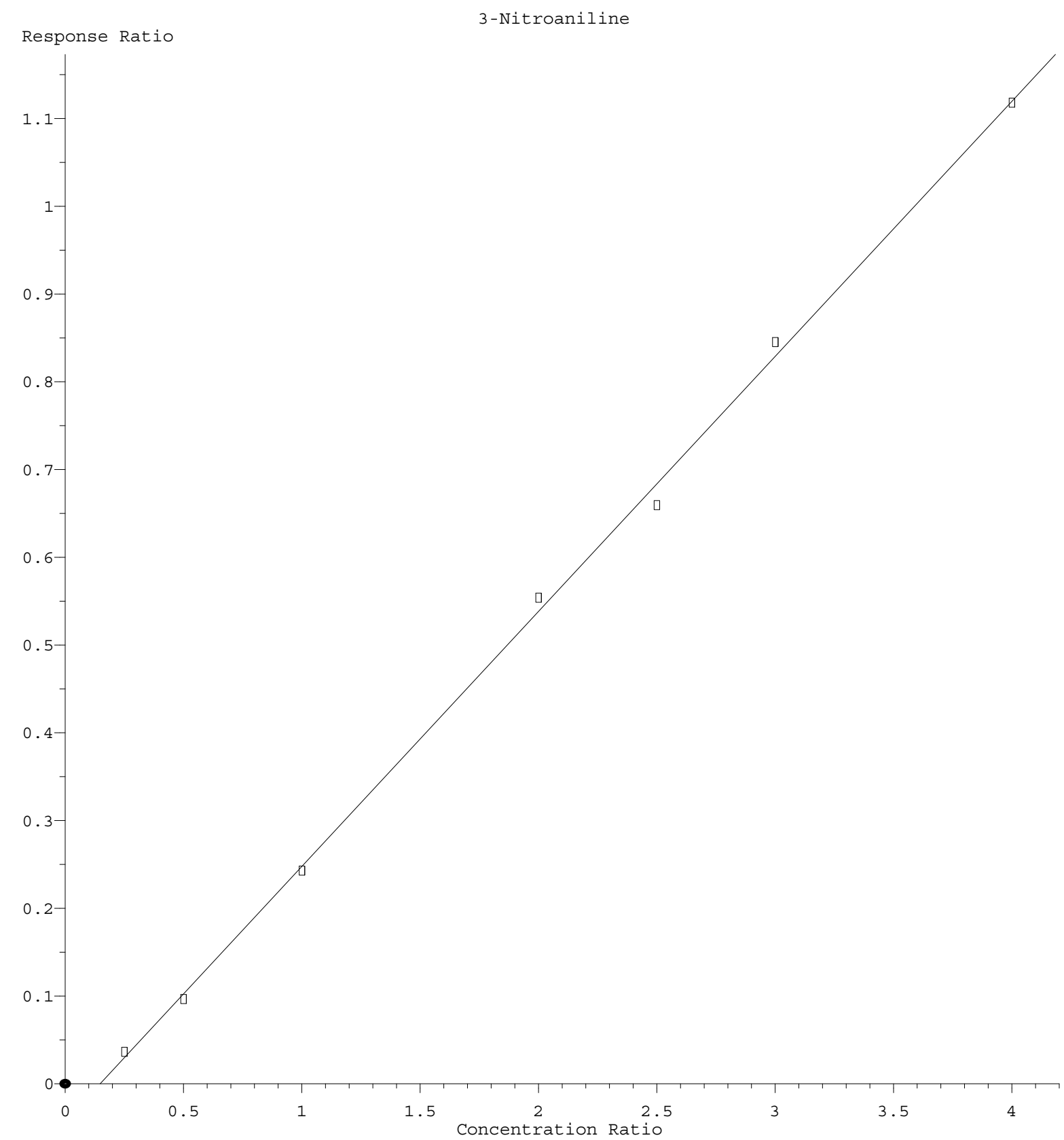
Response = 2.456e-001 * Amt - 9.444e-002
Coef of Det (r^2) = 0.997308 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



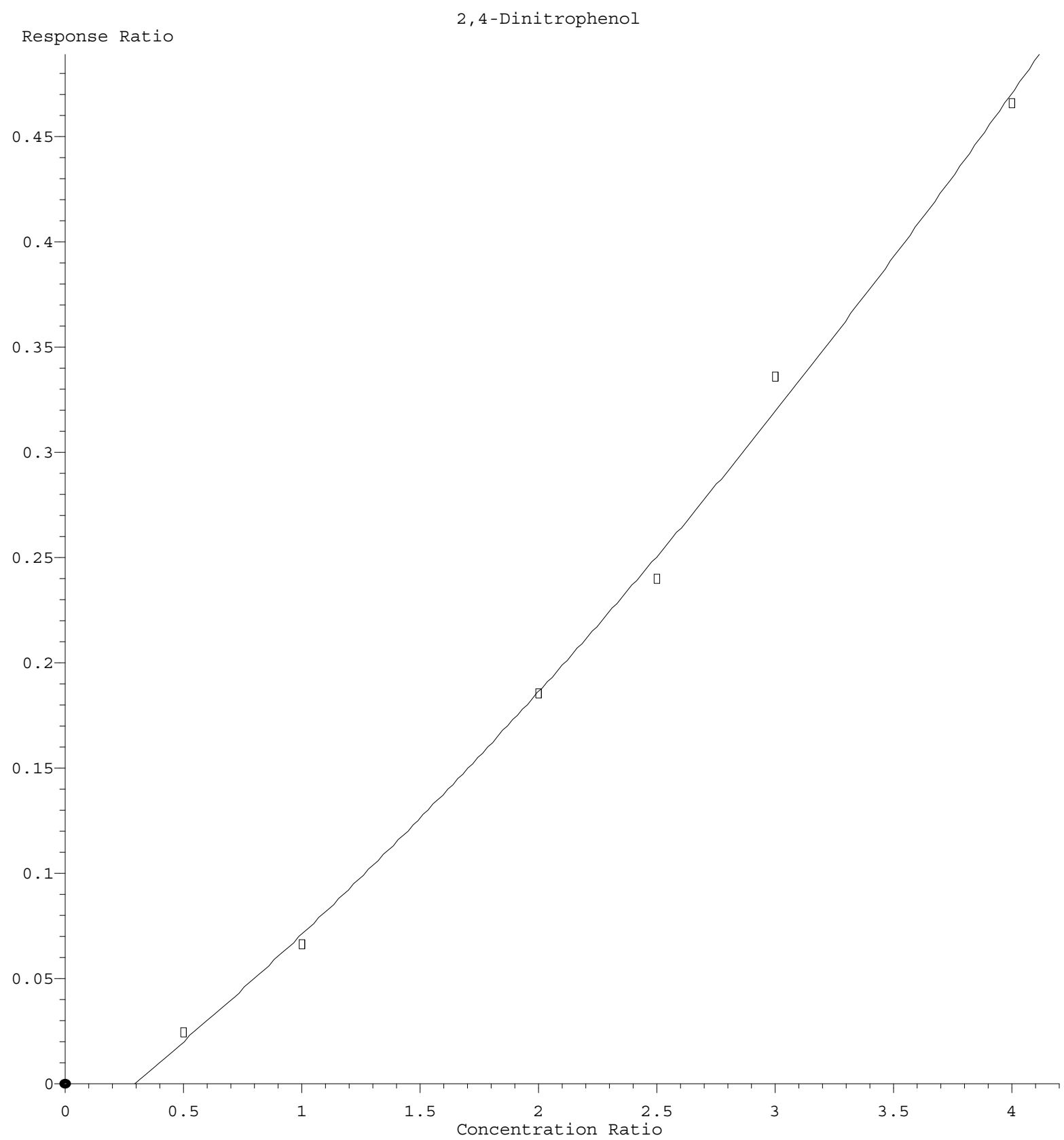
Response = 3.381e-001 * Amt - 7.336e-002
Coef of Det (r^2) = 0.998178 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



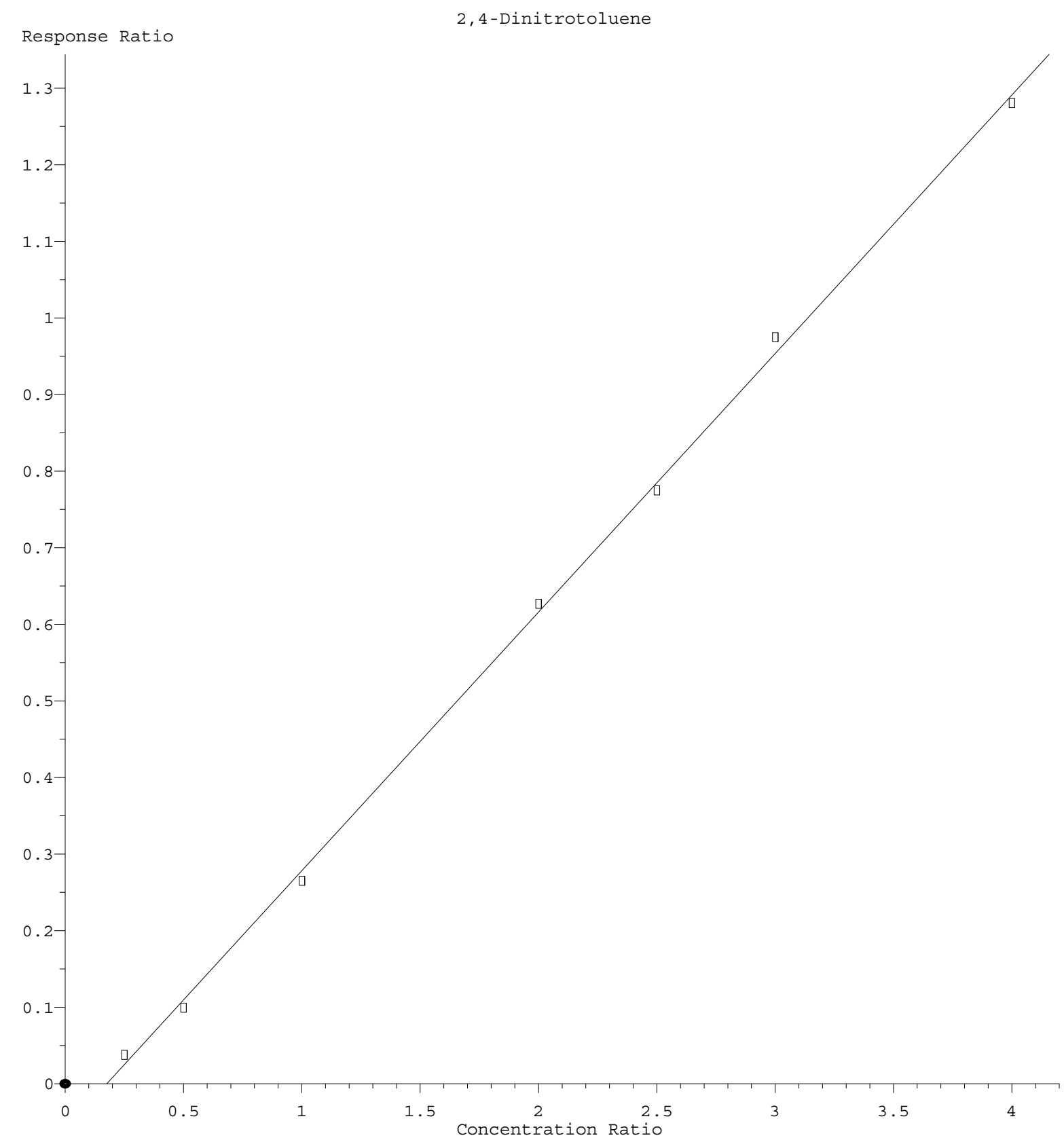
Response = 2.723e-001 * Amt - 3.850e-002
Coef of Det (r^2) = 0.999171 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



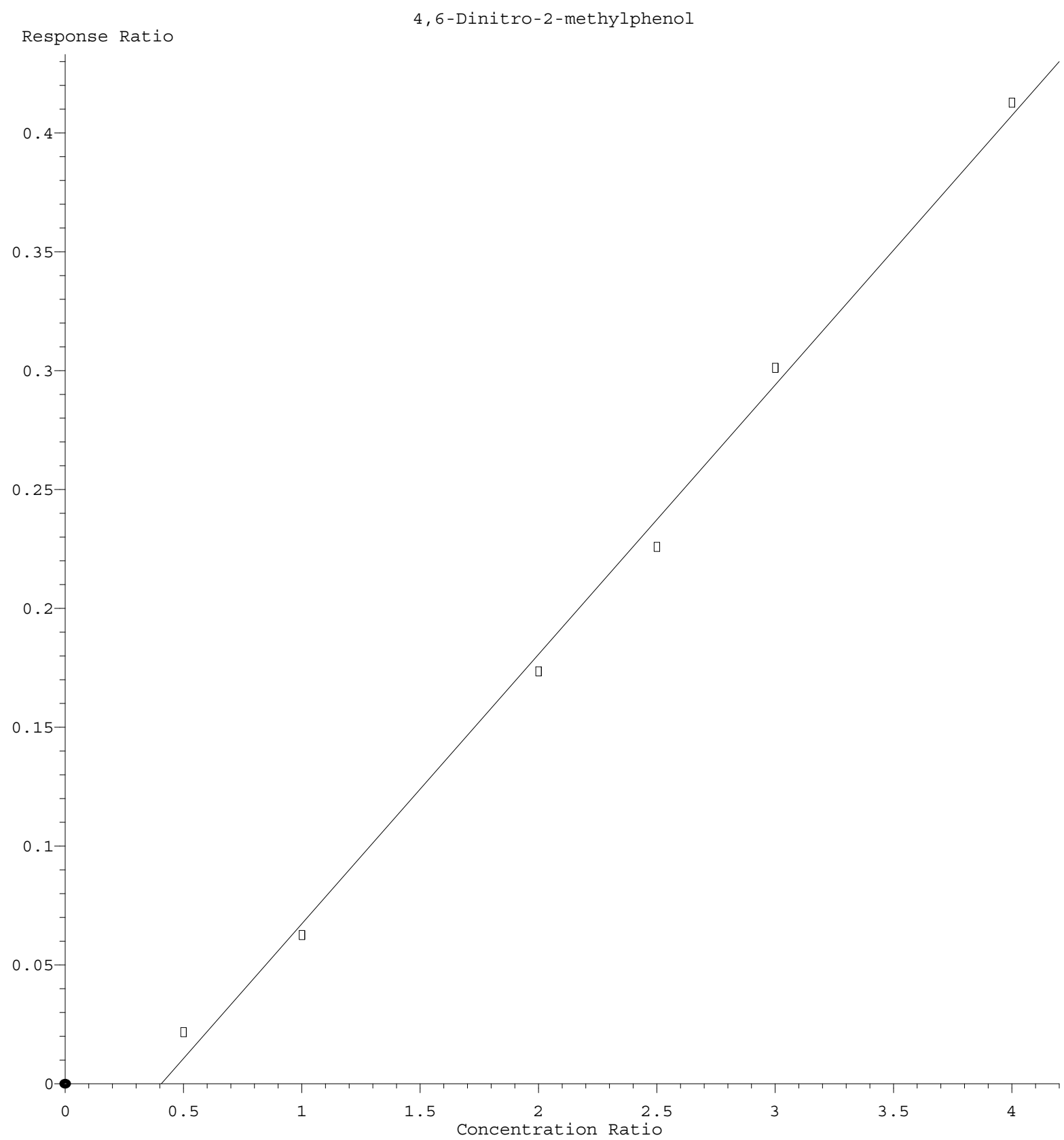
Response = 2.909e-001 * Amt - 4.315e-002
Coef of Det (r^2) = 0.998769 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



R = 8.979e-003 A*A + 8.829e-002 A - 2.630e-002
Coef of Det (r^2) = 0.996714 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



Response = 3.378e-001 * Amt - 5.953e-002
Coef of Det (r^2) = 0.999067 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



Response = 1.134e-001 * Amt - 4.606e-002
Coef of Det (r^2) = 0.996201 Curve Fit: Linear
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141793.D
Acq On : 27 Feb 2025 15:17
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 28 00:18:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 00:17:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	282413	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	1147711	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	650007	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1119232	20.000	ng	0.00
76) Chrysene-d12	14.045	240	894958	20.000	ng	0.00
86) Perylene-d12	15.521	264	684814	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...	7.287	70	39992	2.936	ng	100

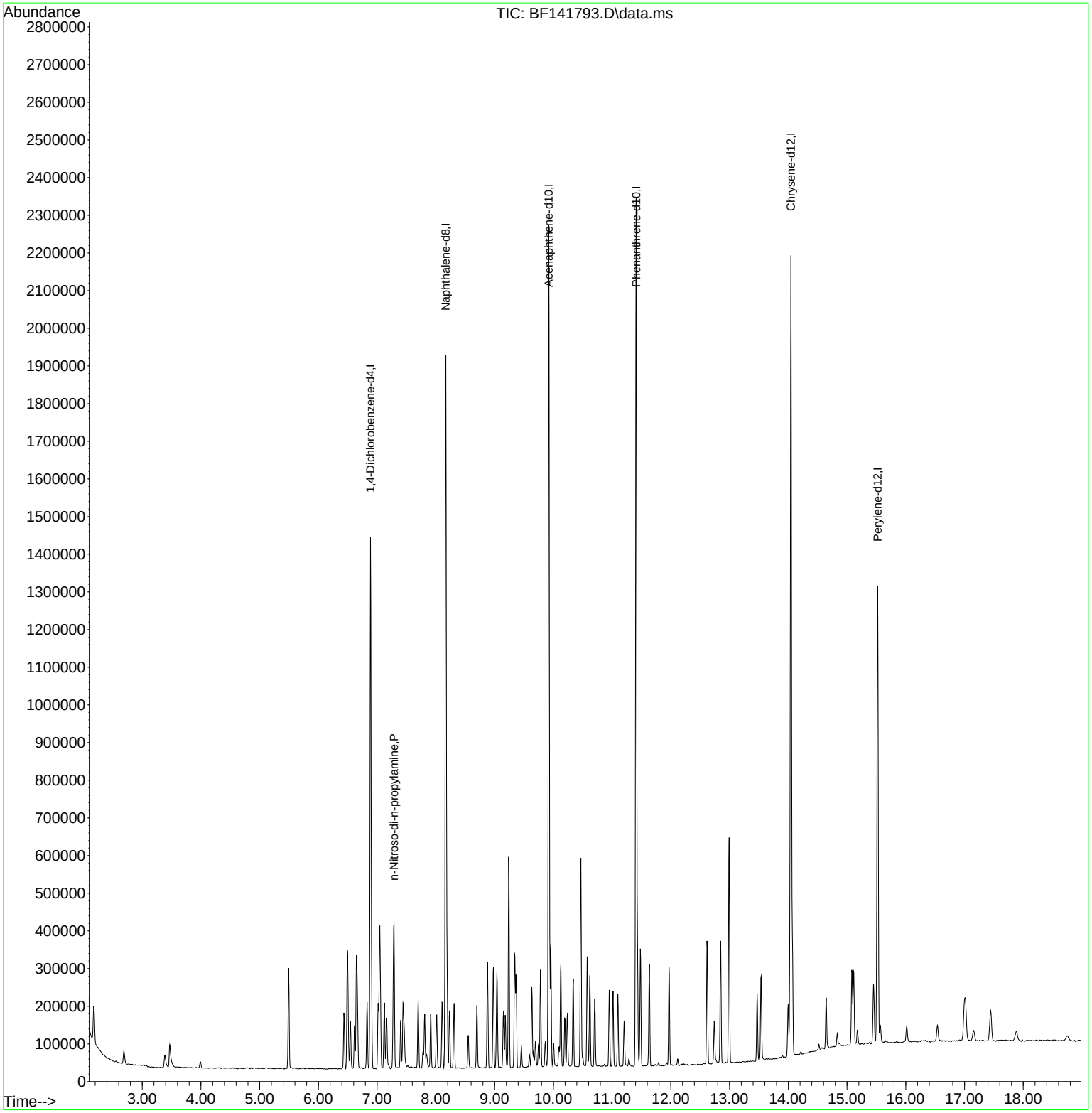
(#) = qualifier out of range (m) = manual integration (+) = signals summed

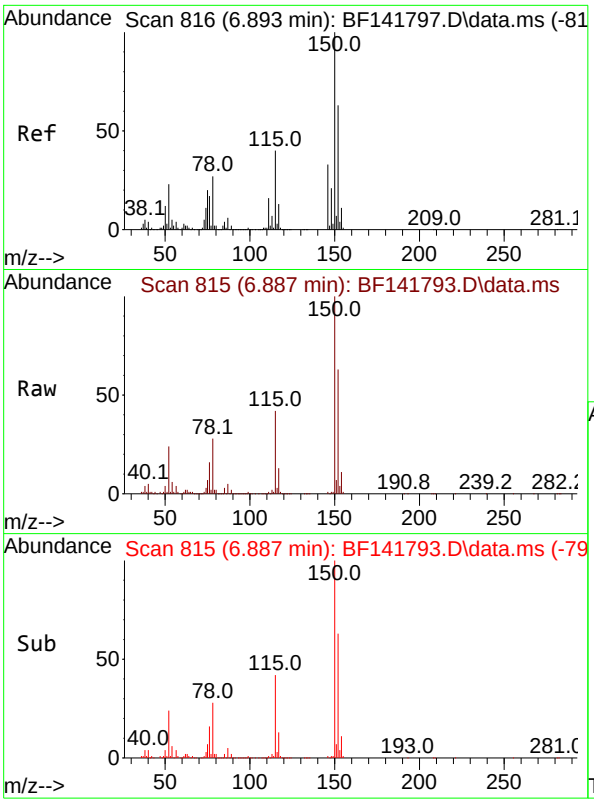
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141793.D
Acq On : 27 Feb 2025 15:17
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 28 00:18:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 00:17:06 2025
Response via : Initial Calibration



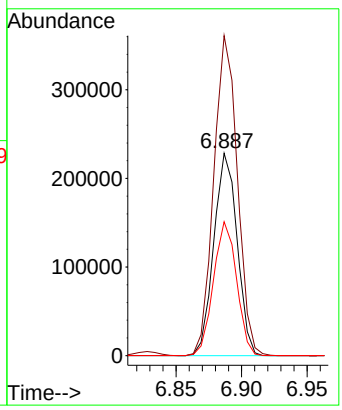


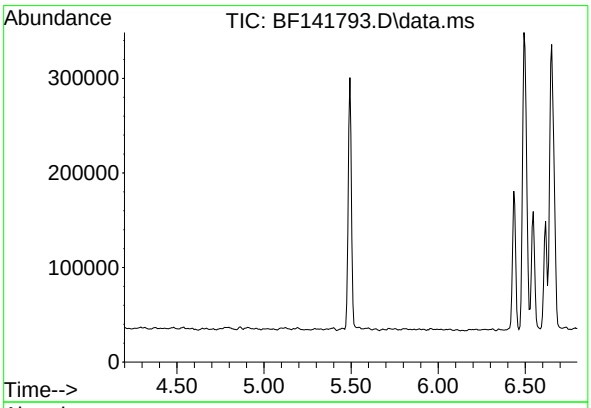
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 282413

Ion	Ratio	Lower	Upper
152	100		
150	158.1	127.5	191.3
115	66.2	51.4	77.2



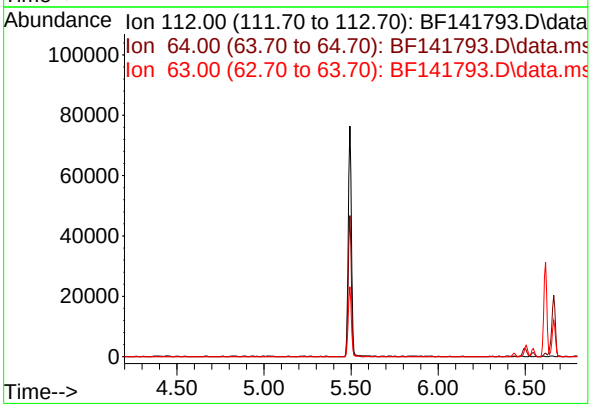


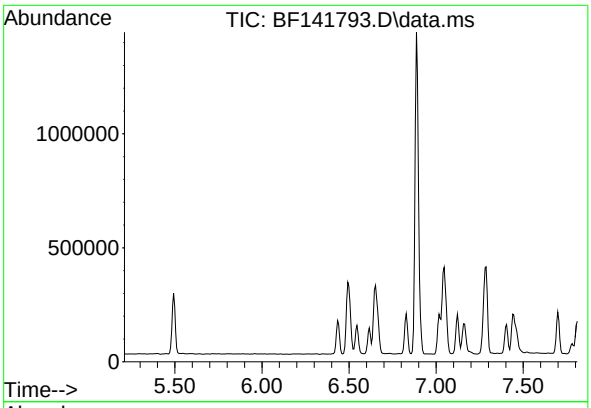
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	64.1
63	32.8





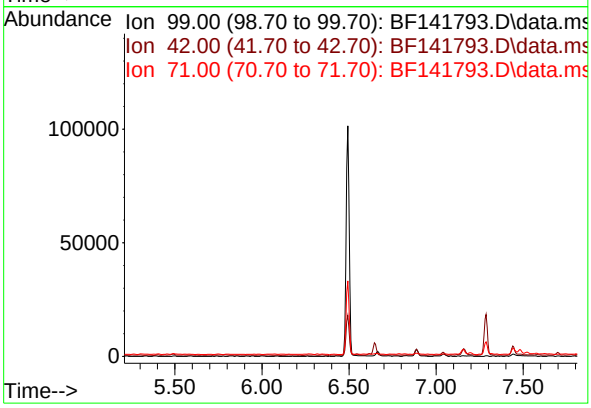
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

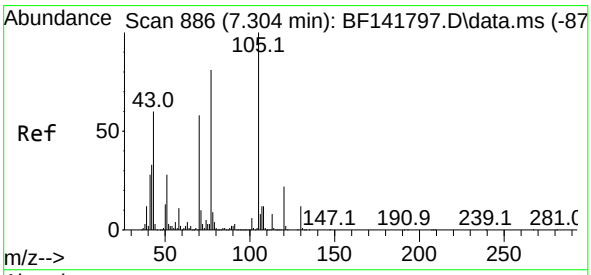
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

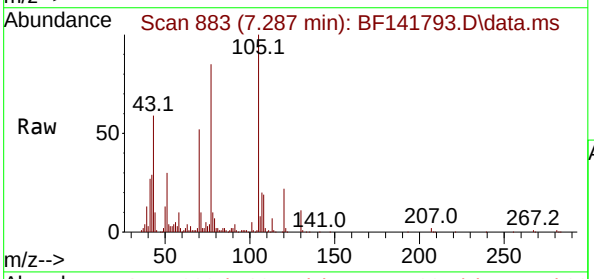
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

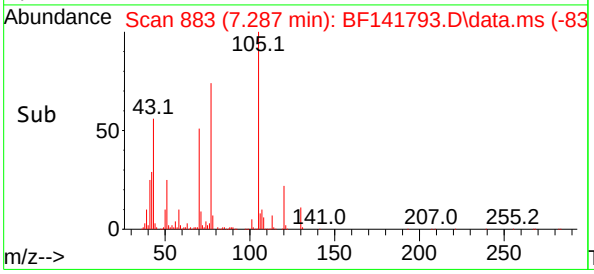
Tgt Ion: 99

Sig	Exp Ratio
99	100
42	19.0
71	35.2





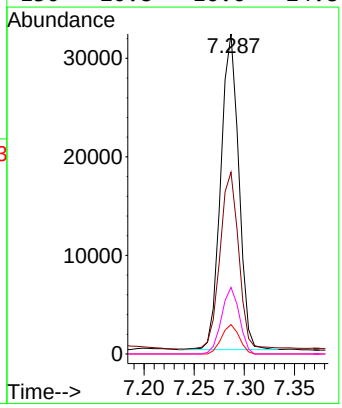


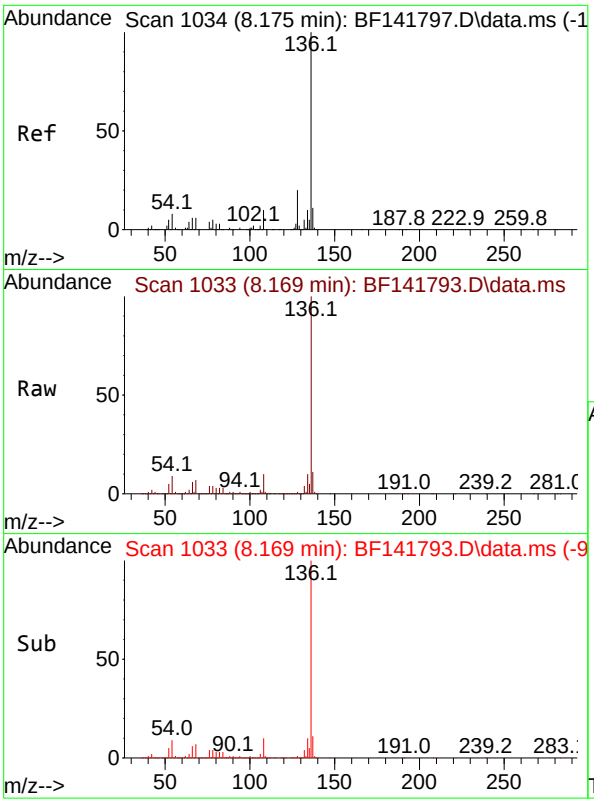


#19
n-Nitroso-di-n-propylamine
Concen: 2.936 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 70 Resp: 39992

Ion	Ratio	Lower	Upper
70	100		
42	56.8	45.4	68.0
101	9.2	7.8	11.8
130	20.8	16.6	24.8



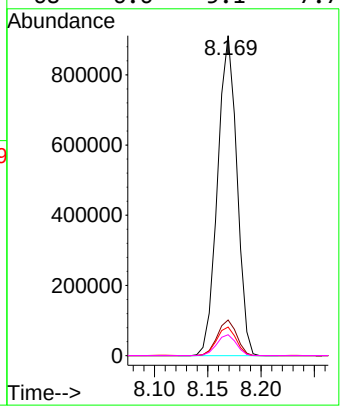


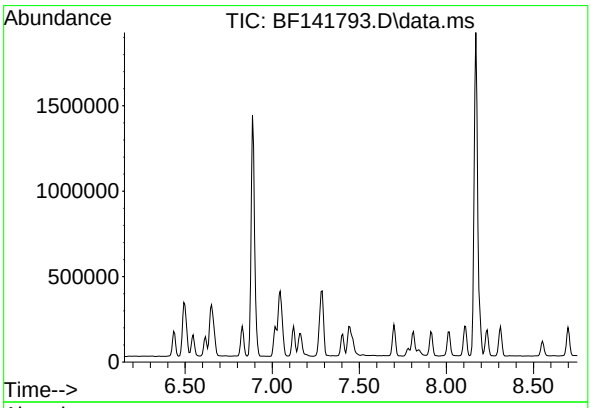
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 1147711

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.9	6.9	10.3
68	6.6	5.1	7.7



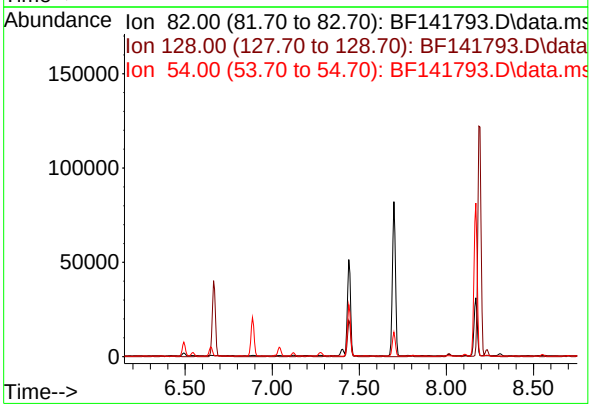


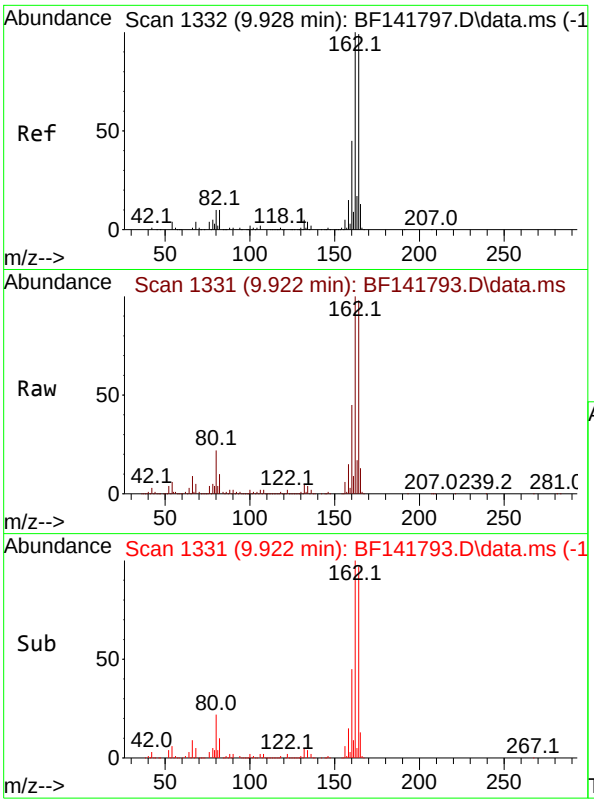
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.9
54	53.4



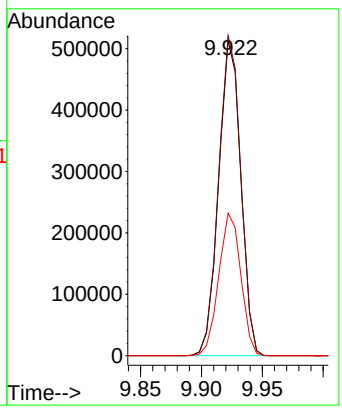


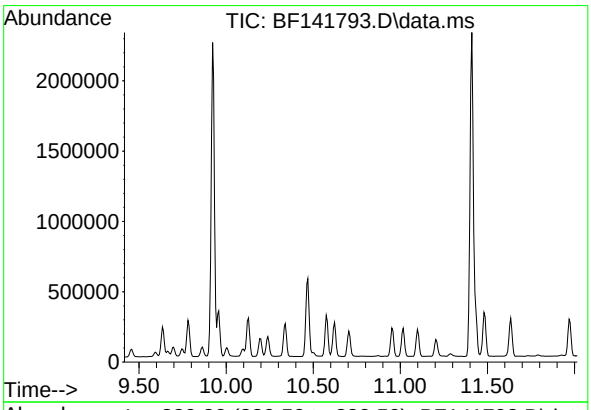
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 650007

Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.6	120.8
160	45.3	36.3	54.5



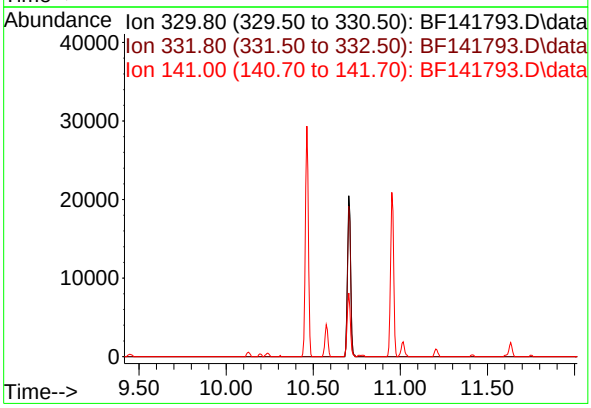


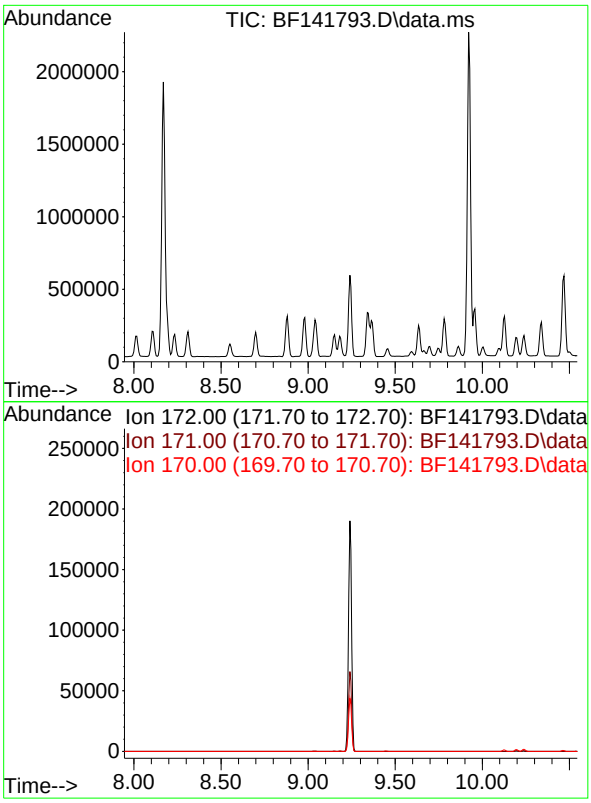
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.8
141	36.2





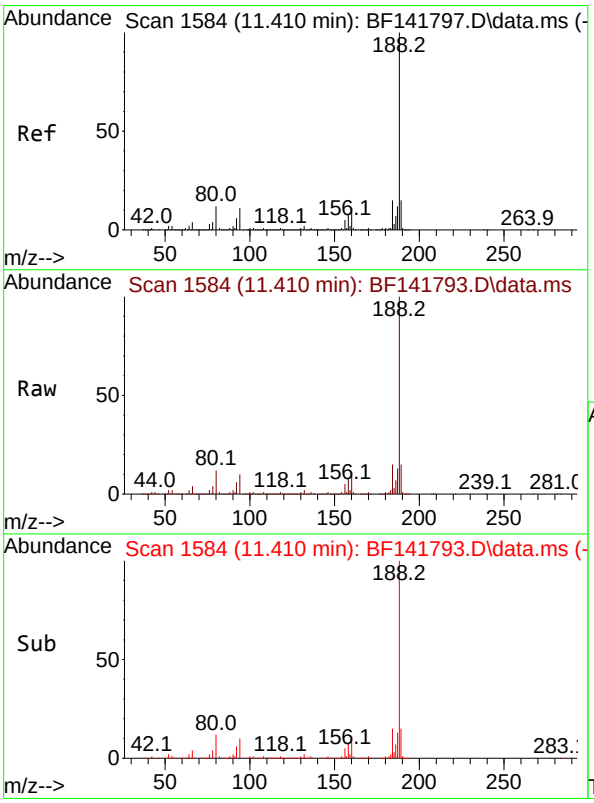
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

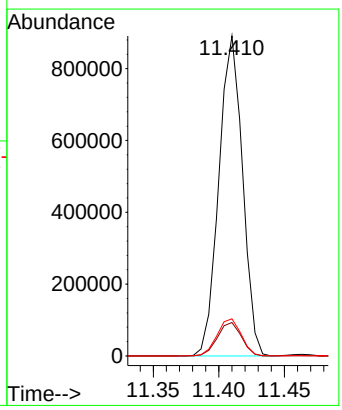
Sig	Exp Ratio
172	100
171	36.5
170	24.6

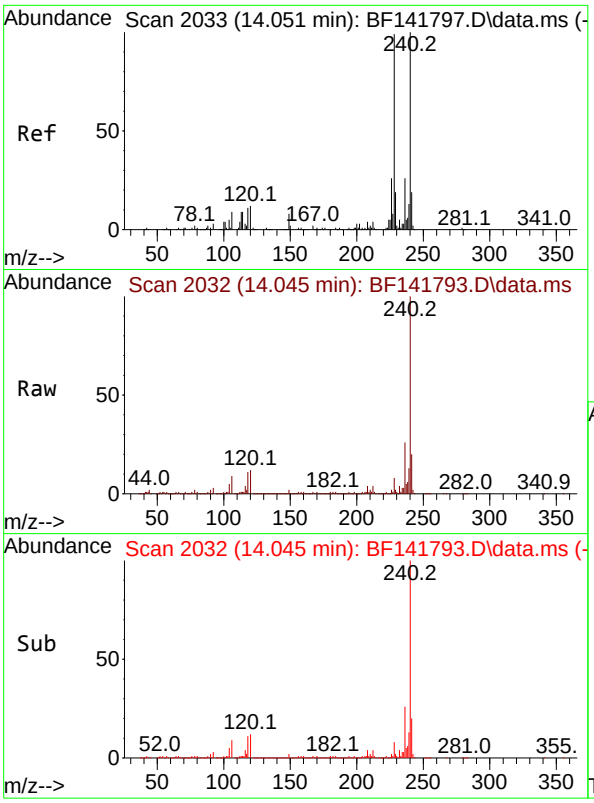


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion:188 Resp: 1119232

Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.9	13.3
80	11.6	9.7	14.5



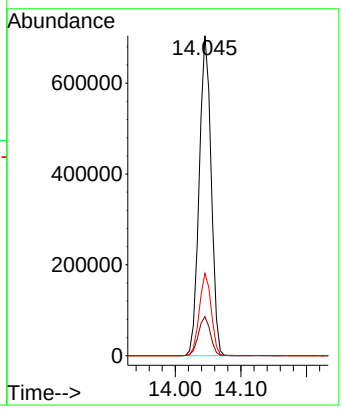


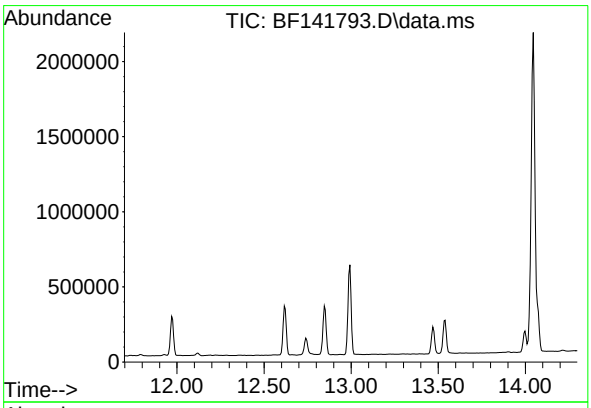
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 894958

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	25.7	21.0	31.4



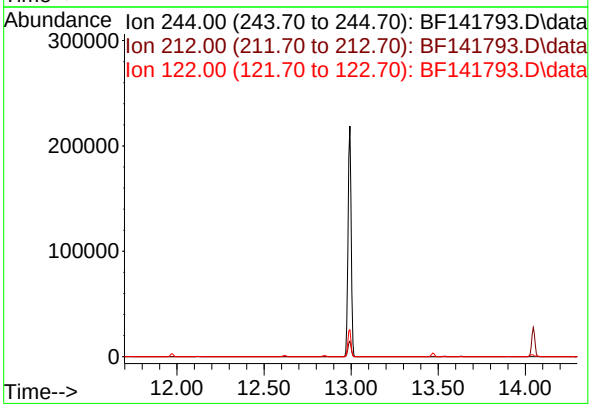


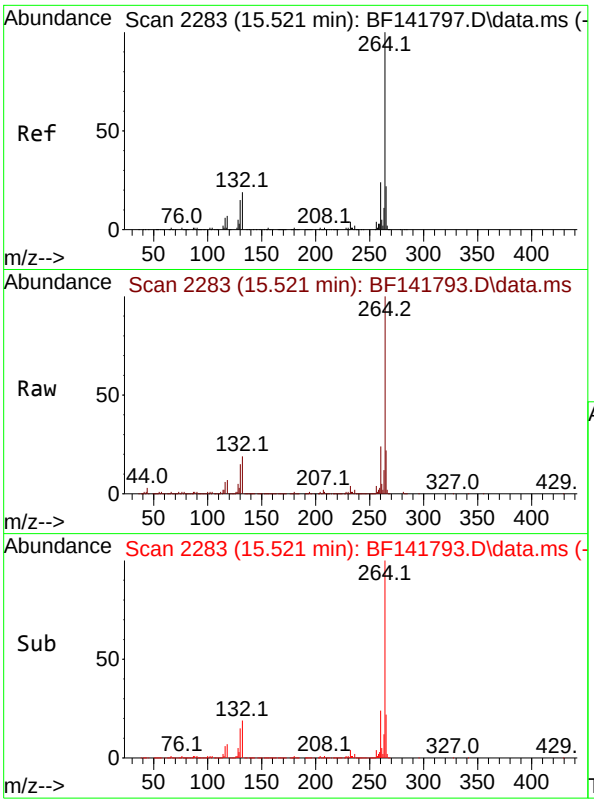
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.5
122	11.3



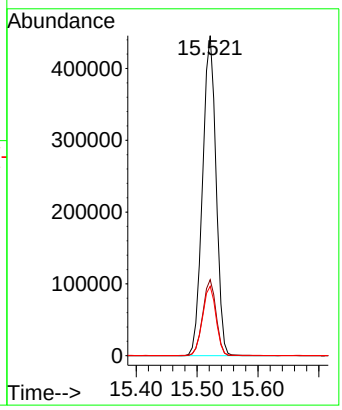


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 684814

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	21.7	17.4	26.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	281554	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	1128074	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	643922	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1101046	20.000	ng		0.00
76) Chrysene-d12	14.045	240	852555	20.000	ng		0.00
86) Perylene-d12	15.521	264	648925	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	189803	10.766	ng		0.00
7) Phenol-d6	6.493	99	246391	10.737	ng		-0.02
23) Nitrobenzene-d5	7.440	82	139940	7.929	ng		-0.01
42) 2,4,6-Tribromophenol	10.704	330	56406	9.331	ng		-0.01
45) 2-Fluorobiphenyl	9.239	172	464621	11.570	ng		0.00
79) Terphenyl-d14	12.992	244	532855	10.112	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	43124	5.391	ng		98
3) Pyridine	3.458	79	98722	4.960	ng		97
4) n-Nitrosodimethylamine	3.381	42	44659	4.663	ng	#	97
6) Aniline	6.546	93	122918m	5.180	ng		
8) 2-Chlorophenol	6.663	128	101533	5.324	ng		98
9) Benzaldehyde	6.434	77	81024	6.070	ng		99
10) Phenol	6.504	94	130523m	5.339	ng		
11) bis(2-Chloroethyl)ether	6.616	93	96953	5.187	ng		100
12) 1,3-Dichlorobenzene	6.828	146	108688	5.321	ng		99
13) 1,4-Dichlorobenzene	6.904	146	109382	5.315	ng		99
14) 1,2-Dichlorobenzene	7.057	146	105070	5.468	ng		98
15) Benzyl Alcohol	7.016	79	94845	5.172	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	150528	5.303	ng		100
17) 2-Methylphenol	7.122	107	81304	5.165	ng		97
18) Hexachloroethane	7.404	117	39359	5.110	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	79943	5.300	ng		99
20) 3+4-Methylphenols	7.275	107	106084	5.412	ng		93
22) Acetophenone	7.287	105	152122	5.537	ng	#	97
24) Nitrobenzene	7.463	77	76930	4.071	ng		96
25) Isophorone	7.698	82	197960	5.221	ng		99
26) 2-Nitrophenol	7.781	139	22354	6.947	ng		97
27) 2,4-Dimethylphenol	7.810	122	72631	5.211	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	130473	5.395	ng		98
29) 2,4-Dichlorophenol	8.016	162	79008	4.914	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	92399	5.244	ng		98
31) Naphthalene	8.192	128	321546	5.546	ng		98
33) 4-Chloroaniline	8.234	127	113407	5.335	ng		98
34) Hexachlorobutadiene	8.310	225	56205	5.134	ng		99
35) Caprolactam	8.557	113	24467	4.946	ng		95
36) 4-Chloro-3-methylphenol	8.698	107	93983	5.262	ng		97
37) 2-Methylnaphthalene	8.881	142	214971	5.653	ng		97
38) 1-Methylnaphthalene	8.981	142	207097	5.676	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	98100	5.275	ng		97
41) Hexachlorocyclopentadiene	9.034	237	34990	4.508	ng		98
43) 2,4,6-Trichlorophenol	9.151	196	57097	4.753	ng		98
44) 2,4,5-Trichlorophenol	9.187	196	55979	4.706	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.345	154	272648	5.563	ng		97
47) 2-Chloronaphthalene	9.369	162	194915	5.388	ng		97
48) 2-Nitroaniline	9.457	65	24463	6.586	ng		98
49) Acenaphthylene	9.781	152	297257	5.481	ng		98
50) Dimethylphthalate	9.639	163	230425	5.344	ng		99
51) 2,6-Dinitrotoluene	9.698	165	21902	5.327	ng		98
52) Acenaphthene	9.957	154	195912	5.353	ng		97
53) 3-Nitroaniline	9.863	138	23458	5.471	ng	#	83
55) Dibenzofuran	10.128	168	297756	5.590	ng		96
56) 4-Nitrophenol	10.004	139	20838	3.272	ng		91
57) 2,4-Dinitrotoluene	10.098	165	24255	5.755	ng	#	96
58) Fluorene	10.469	166	230713	5.782	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	50417	4.873	ng		99
60) Diethylphthalate	10.339	149	230060	5.322	ng		98
61) 4-Chlorophenyl-phenyle...	10.463	204	111169	5.561	ng		98
62) 4-Nitroaniline	10.469	138	24006	3.260	ng	#	84
63) Azobenzene	10.622	77	248519	5.460	ng		98
66) n-Nitrosodiphenylamine	10.575	169	193204	5.344	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	66312	5.156	ng		99
68) Hexachlorobenzene	11.016	284	69598	5.125	ng		100
69) Atrazine	11.098	200	58634	5.897	ng		98
70) Pentachlorophenol	11.204	266	37669	4.373	ng		99
71) Phenanthrene	11.433	178	326529	5.544	ng		99
72) Anthracene	11.481	178	331149	5.610	ng		98
73) Carbazole	11.633	167	295693	5.673	ng		98
74) Di-n-butylphthalate	11.969	149	367349	5.560	ng		99
75) Fluoranthene	12.622	202	353684	5.861	ng		97
78) Pyrene	12.845	202	361938	4.903	ng		98
80) Butylbenzylphthalate	13.469	149	116439	4.341	ng		99
81) Benzo(a)anthracene	14.033	228	291373	5.174	ng		98
82) 3,3'-Dichlorobenzidine	13.998	252	86483	5.353	ng		97
83) Chrysene	14.069	228	277632	5.348	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	149689	4.482	ng		99
85) Di-n-octyl phthalate	14.645	149	192390	3.848	ng		99
87) Indeno(1,2,3-cd)pyrene	16.998	276	178035	4.309	ng		99
88) Benzo(b)fluoranthene	15.086	252	233991	5.294	ng		98
89) Benzo(k)fluoranthene	15.116	252	206614	5.499	ng		100
90) Benzo(a)pyrene	15.451	252	180486	5.091	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	146279	4.337	ng		97
92) Benzo(g,h,i)perylene	17.445	276	145755	4.218	ng		99

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

ICAL Form

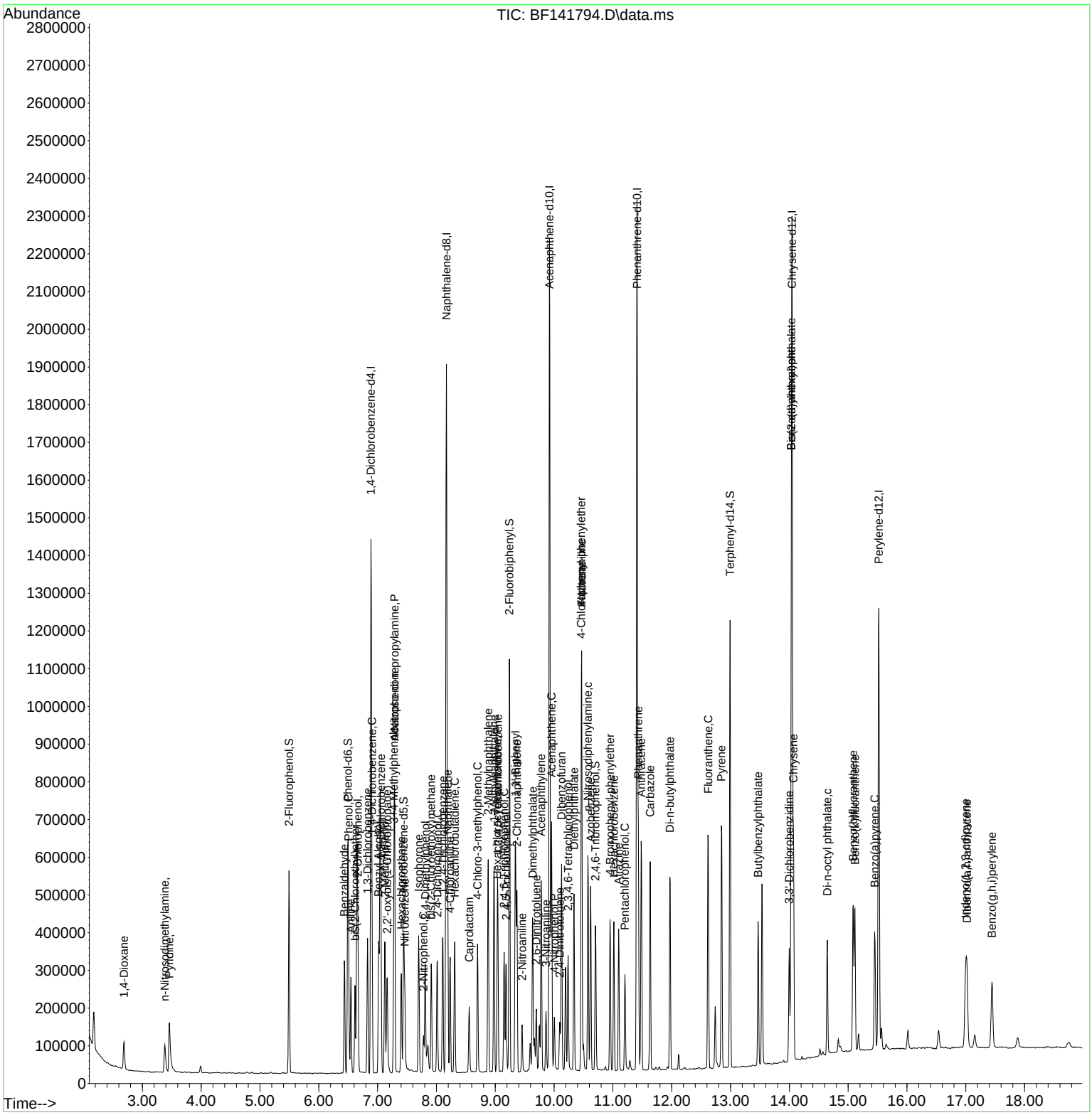
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

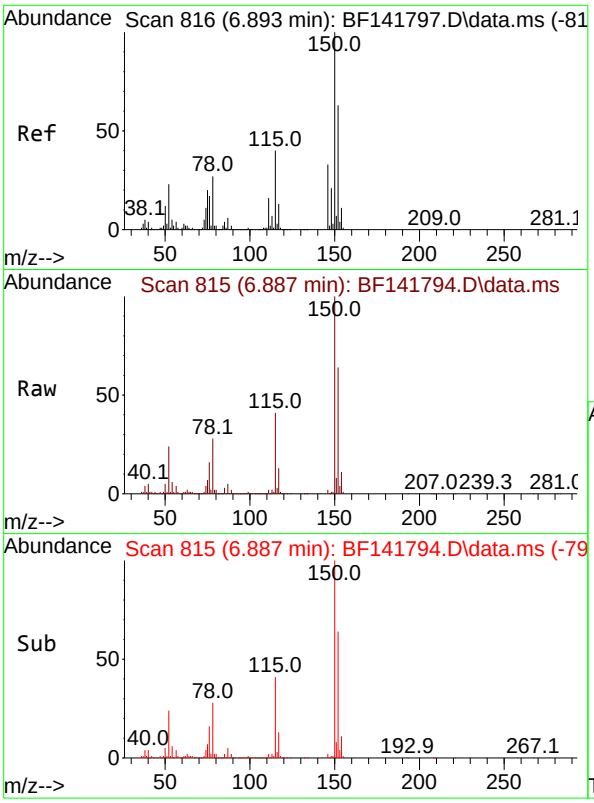
Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

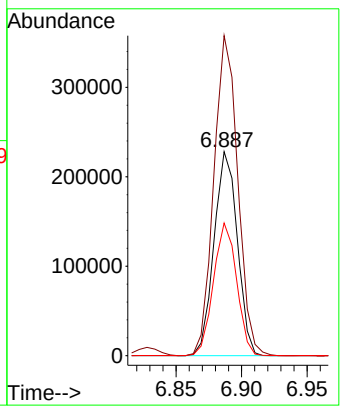




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 28155

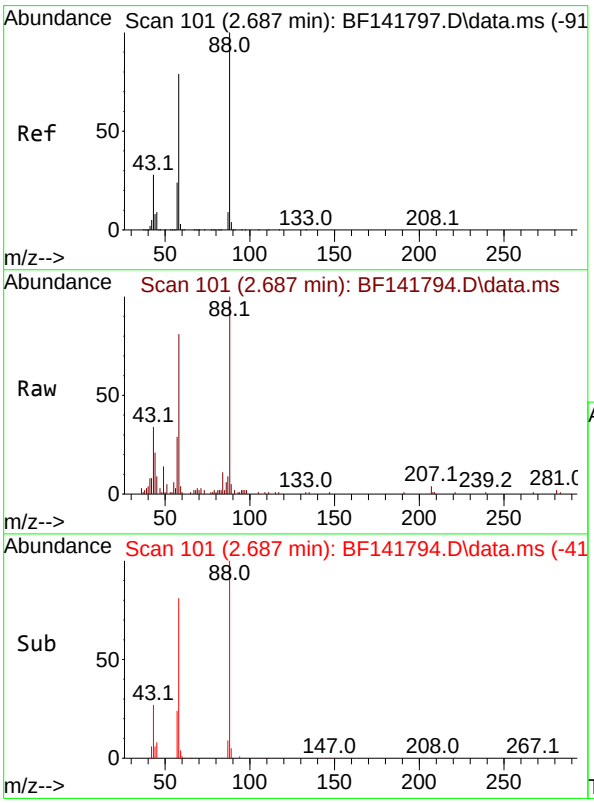
Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.5	191.3
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

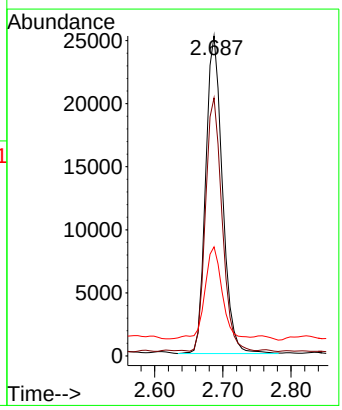
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

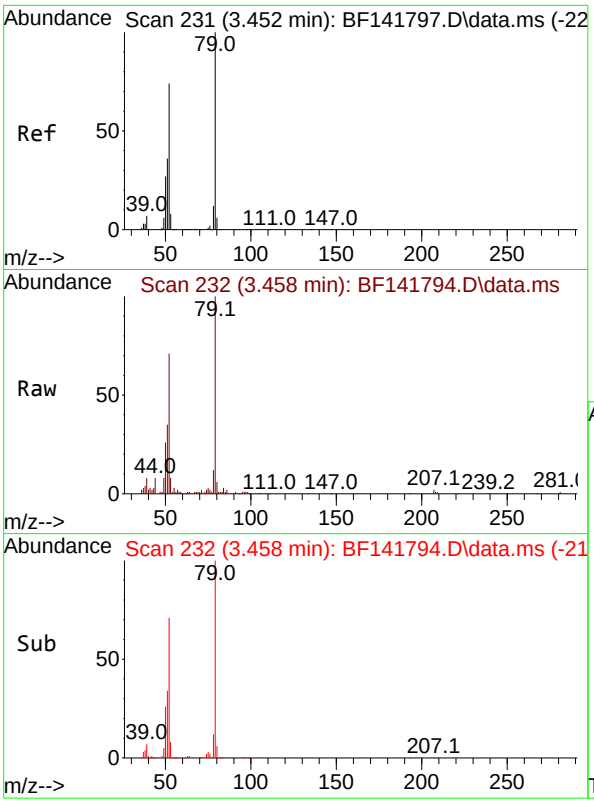


#2
1,4-Dioxane
Concen: 5.391 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 88 Resp: 43124

Ion	Ratio	Lower	Upper
88	100		
58	78.5	63.9	95.9
43	29.6	23.0	34.6

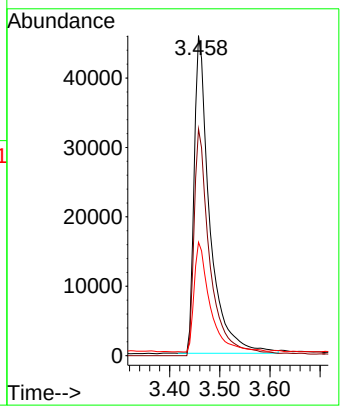




#3
Pyridine
Concen: 4.960 ng
RT: 3.458 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 79 Resp: 9872

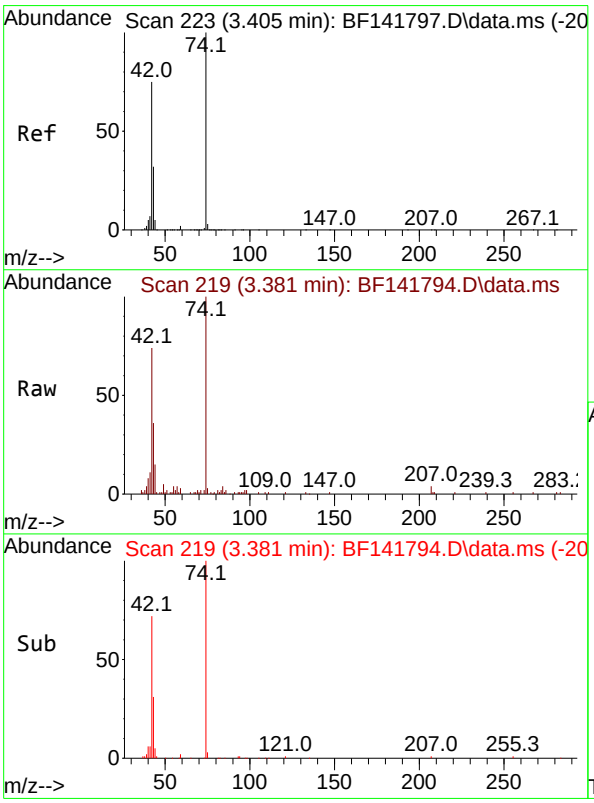
Ion	Ratio	Lower	Upper
79	100		
52	70.9	59.0	88.4
51	35.5	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

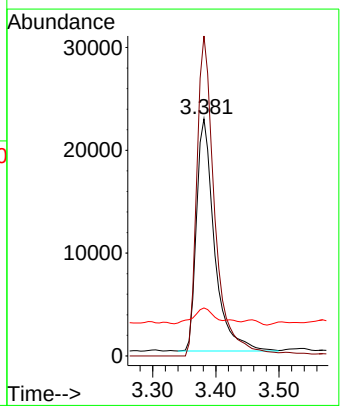
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

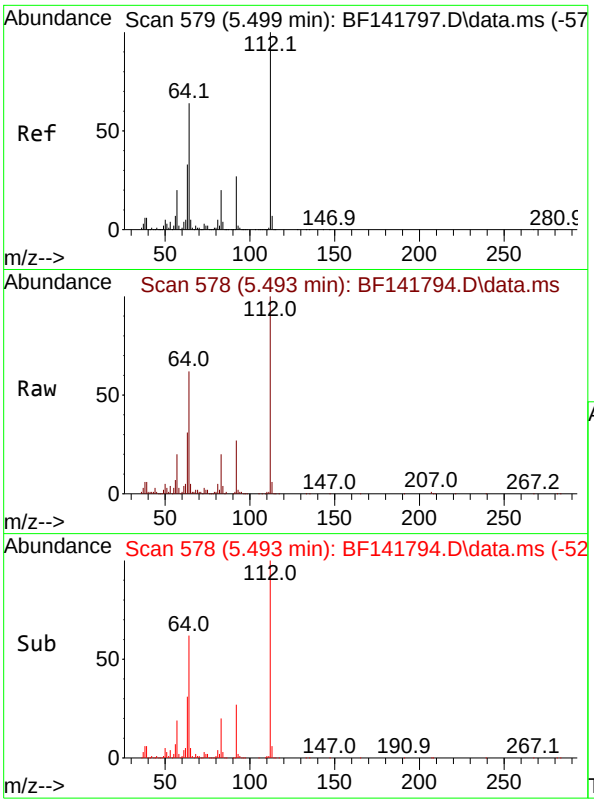


#4
n-Nitrosodimethylamine
Concen: 4.663 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 42 Resp: 44659

Ion	Ratio	Lower	Upper
42	100		
74	134.9	107.1	160.7
44	20.2	6.6	9.8#





#5
2-Fluorophenol
Concen: 10.766 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

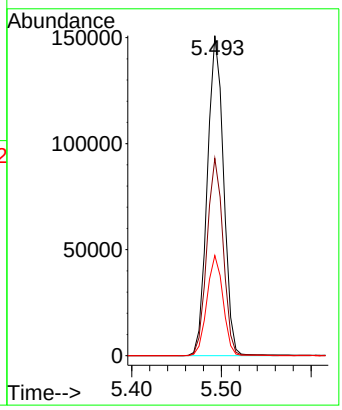
Tgt Ion:112 Resp: 18980

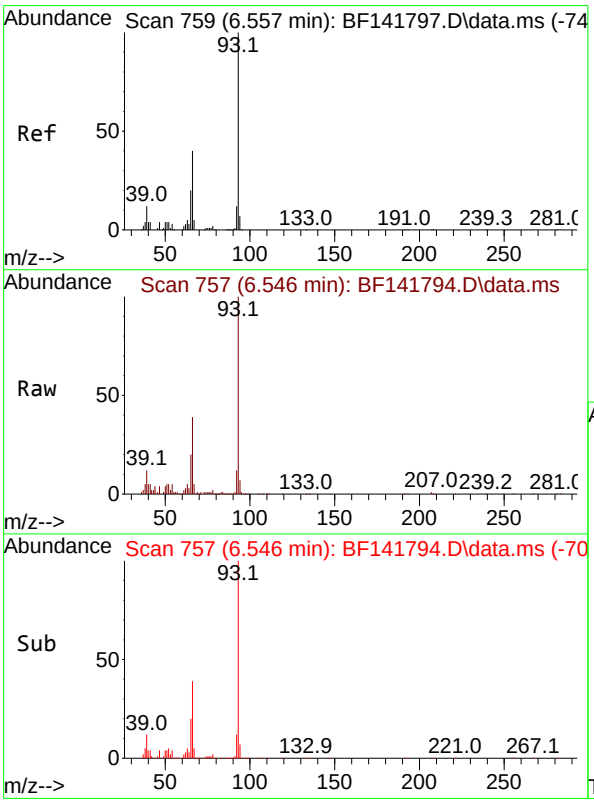
Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.3	76.9
63	31.3	26.2	39.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

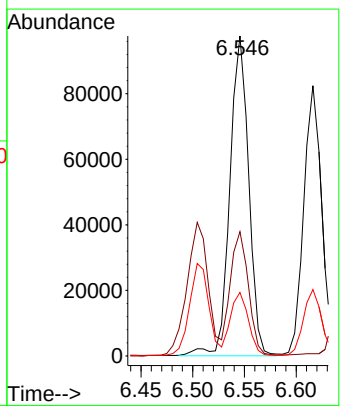


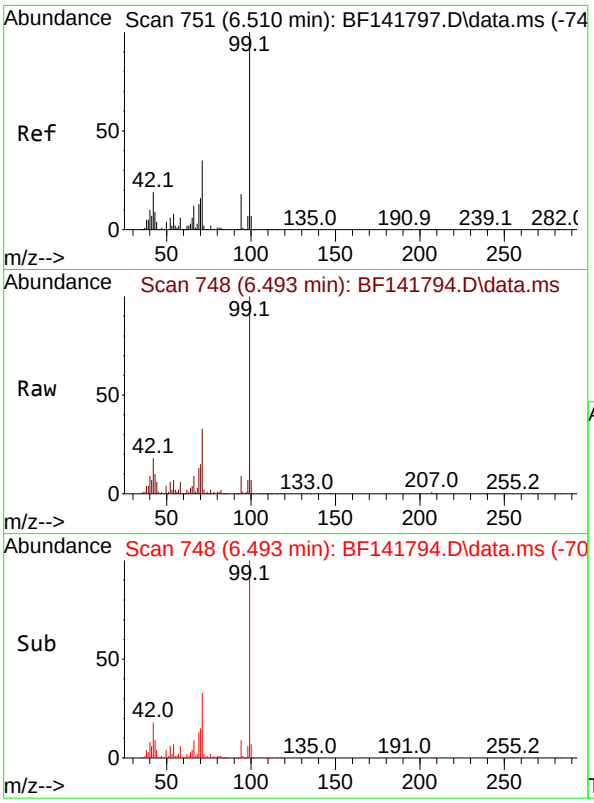


#6
Aniline
Concen: 5.180 ng m
RT: 6.546 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 122918

Ion	Ratio	Lower	Upper
93	100		
66	38.8	32.3	48.5
65	19.9	15.9	23.9

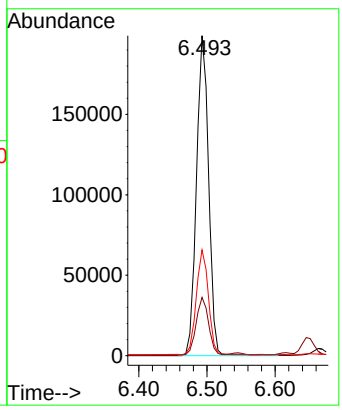




#7
Phenol-d6
Concen: 10.737 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 99 Resp: 24639

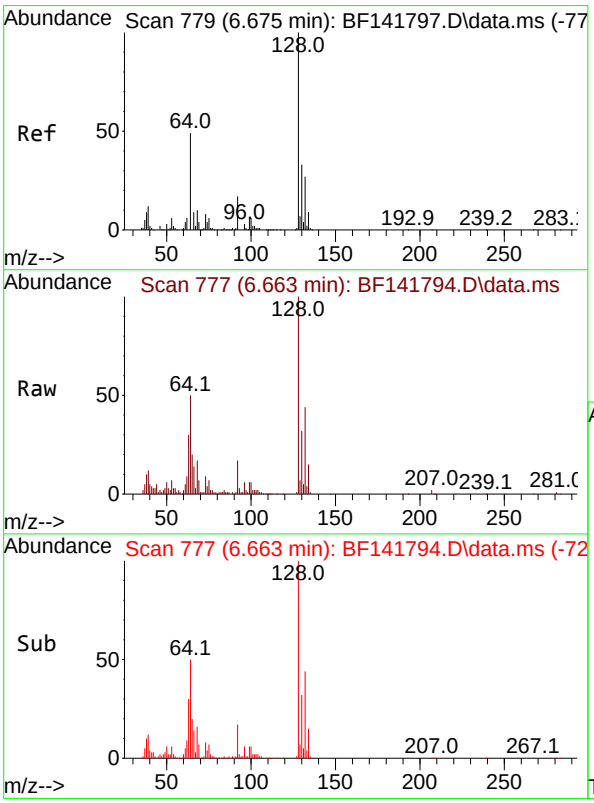
Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.2	22.8
71	33.0	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

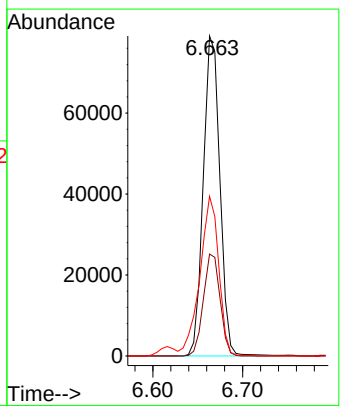
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

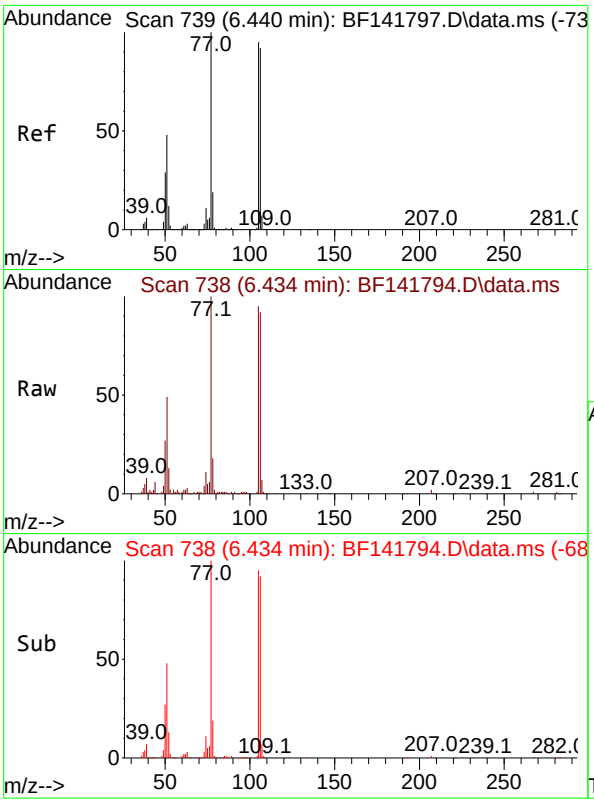


#8
2-Chlorophenol
Concen: 5.324 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 101533

Ion	Ratio	Lower	Upper
128	100		
130	31.8	12.6	52.6
64	49.9	31.1	71.1

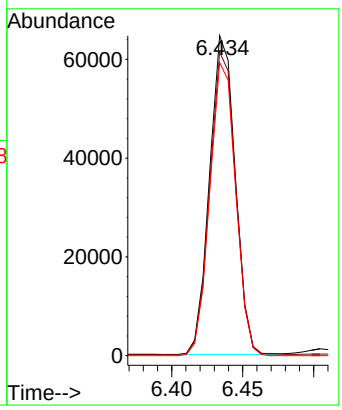




#9
Benzaldehyde
Concen: 6.070 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 8102

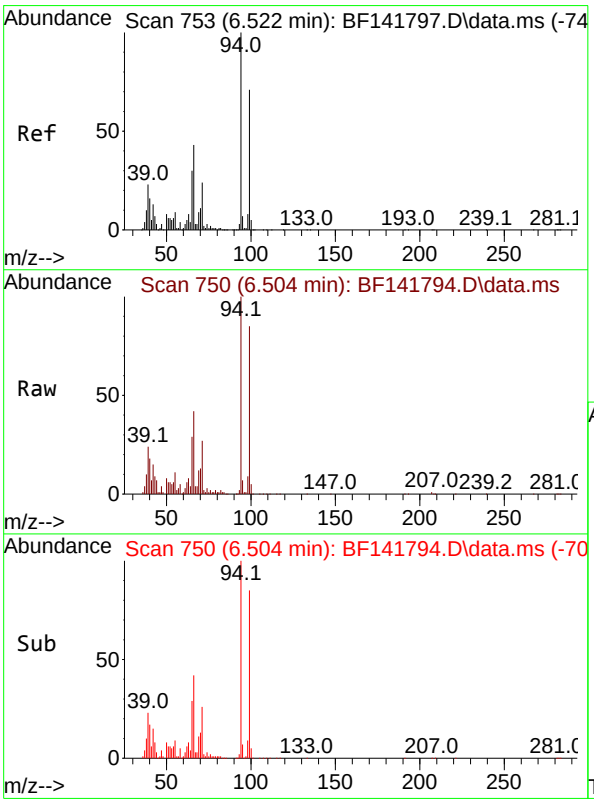
Ion	Ratio	Lower	Upper
77	100		
105	94.9	75.3	115.3
106	91.6	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

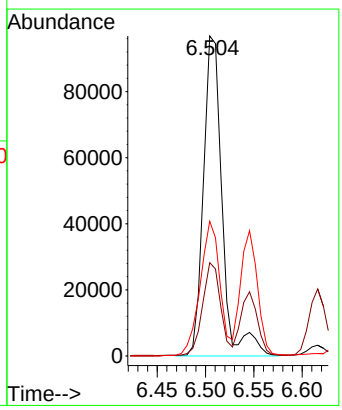
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

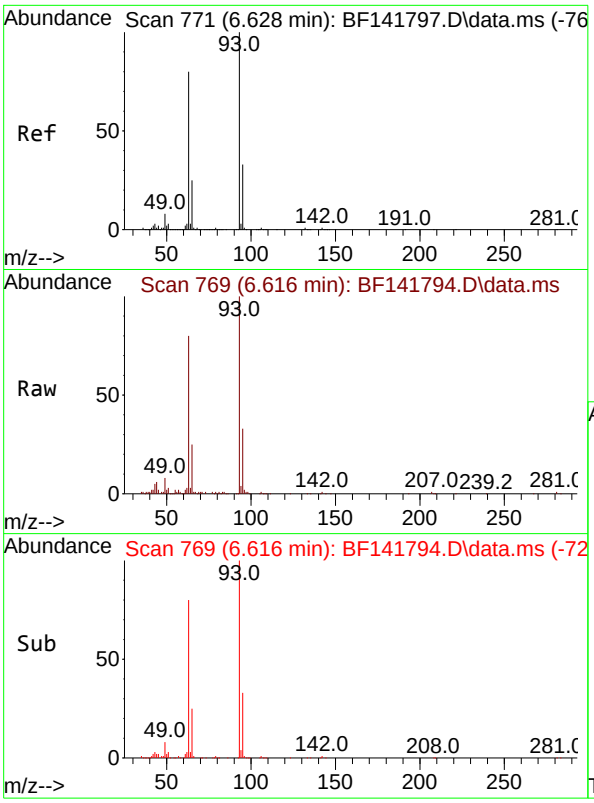


#10
Phenol
Concen: 5.339 ng m
RT: 6.504 min Scan# 750
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 94 Resp: 130523

Ion	Ratio	Lower	Upper
94	100		
65	29.1	10.2	50.2
66	42.1	23.2	63.2

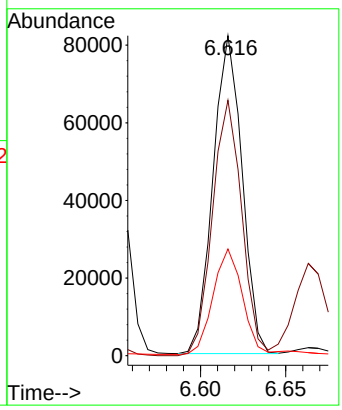




#11
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 9695

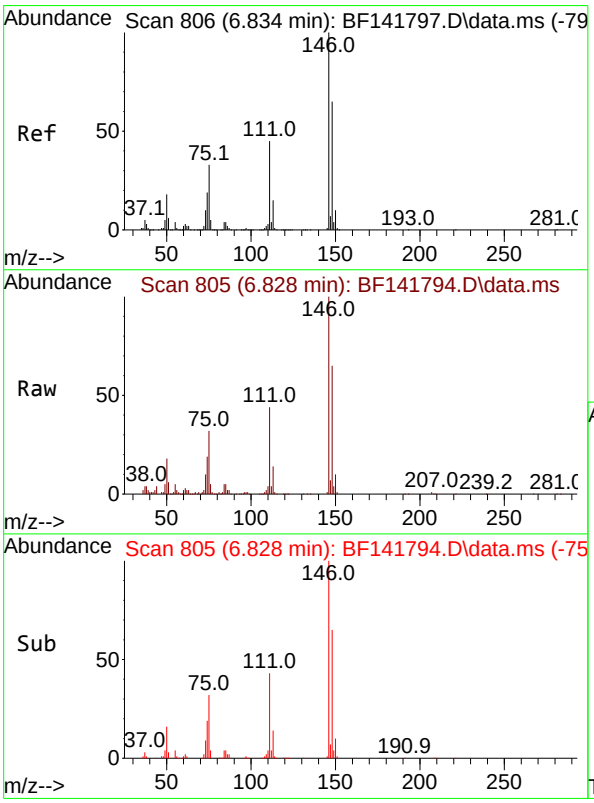
Ion	Ratio	Lower	Upper
93	100		
63	79.8	59.3	99.3
95	33.3	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

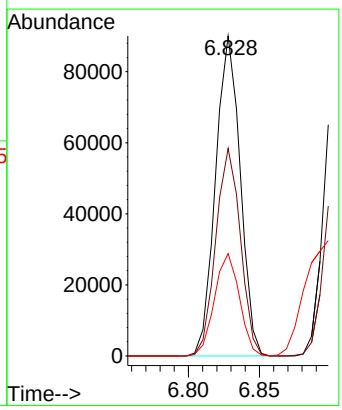
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

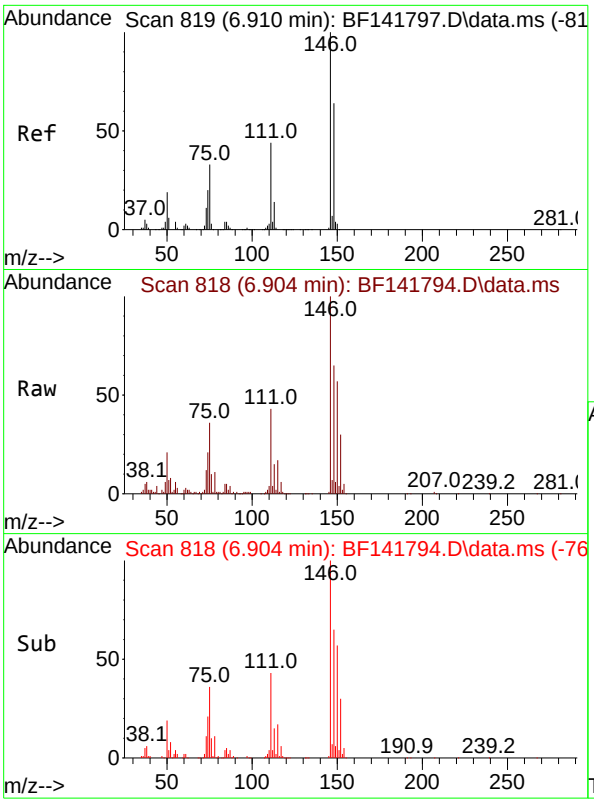


#12
1,3-Dichlorobenzene
Concen: 5.321 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 108688

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.8	77.6
75	32.0	26.2	39.4

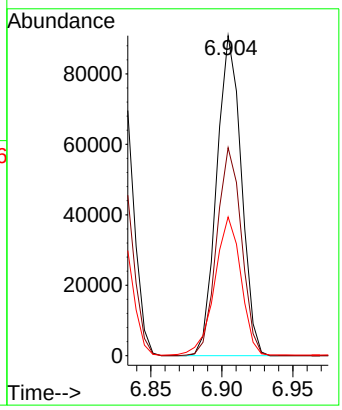




#13
1,4-Dichlorobenzene
Concen: 5.315 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 10938

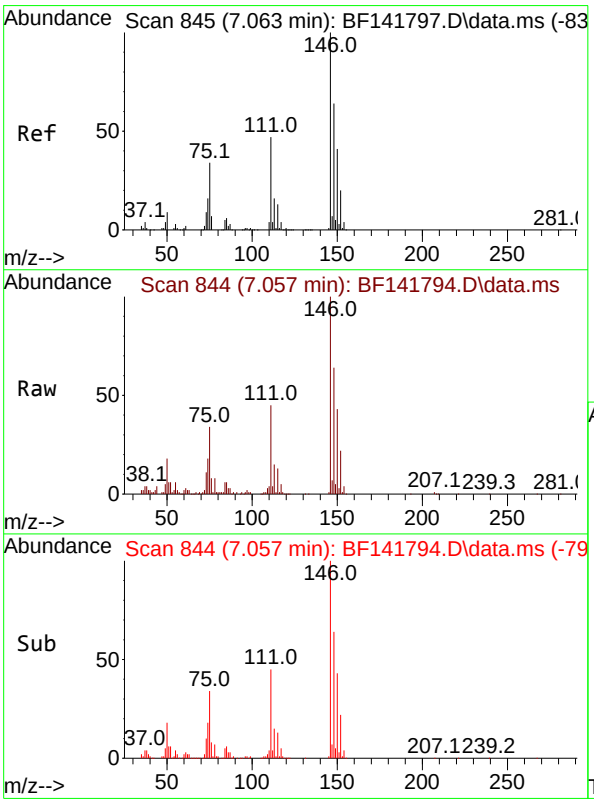
Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.2
111	43.4	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

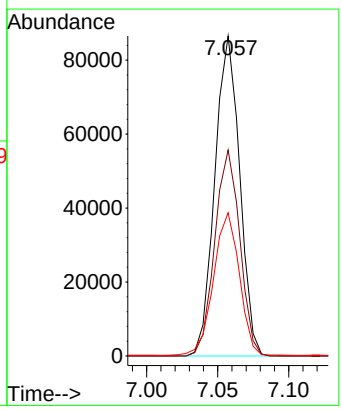
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

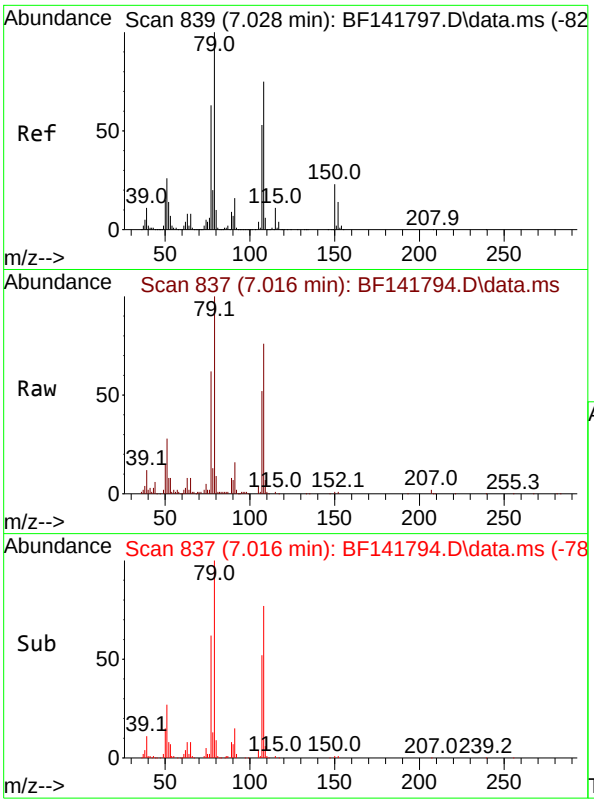


#14
1,2-Dichlorobenzene
Concen: 5.468 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 105070

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	44.8	37.8	56.6





#15
Benzyl Alcohol
Concen: 5.172 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

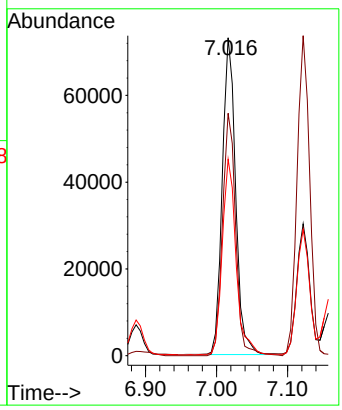
Tgt Ion: 79 Resp: 9484

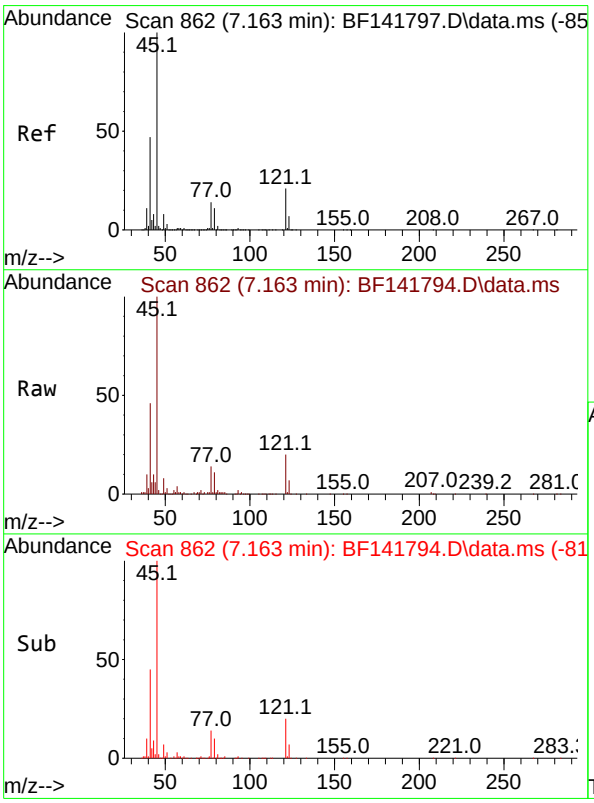
Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.2	90.2
77	61.8	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

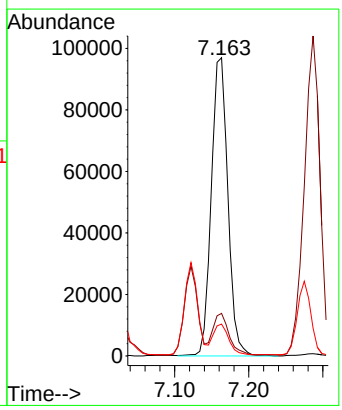


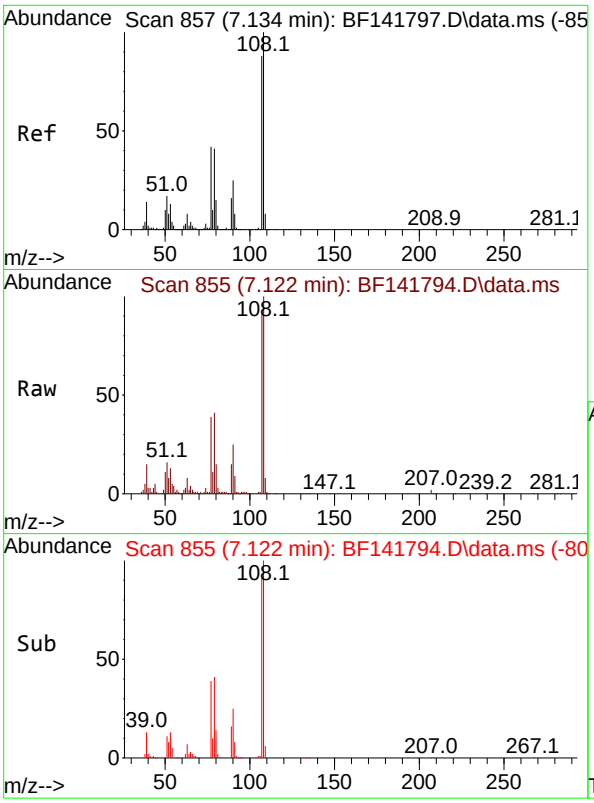


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.303 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 45 Resp: 150528

Ion	Ratio	Lower	Upper
45	100		
77	14.3	0.0	34.4
79	10.7	0.0	30.9

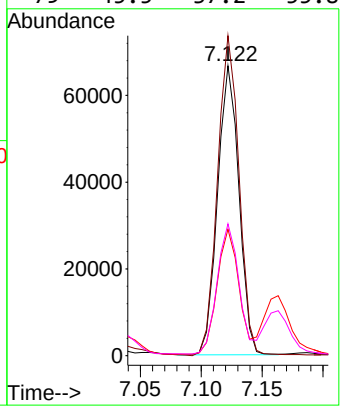




#17
2-Methylphenol
Concen: 5.165 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 8130

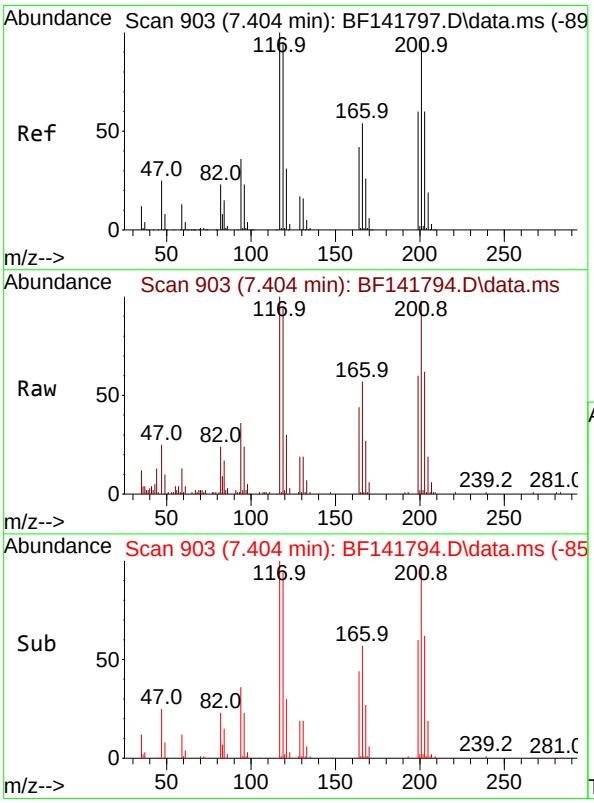
Ion	Ratio	Lower	Upper
107	100		
108	110.4	90.6	135.8
77	43.6	37.7	56.5
79	45.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

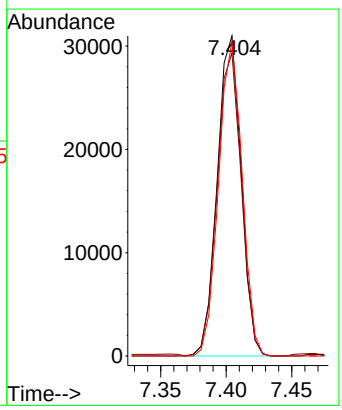
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

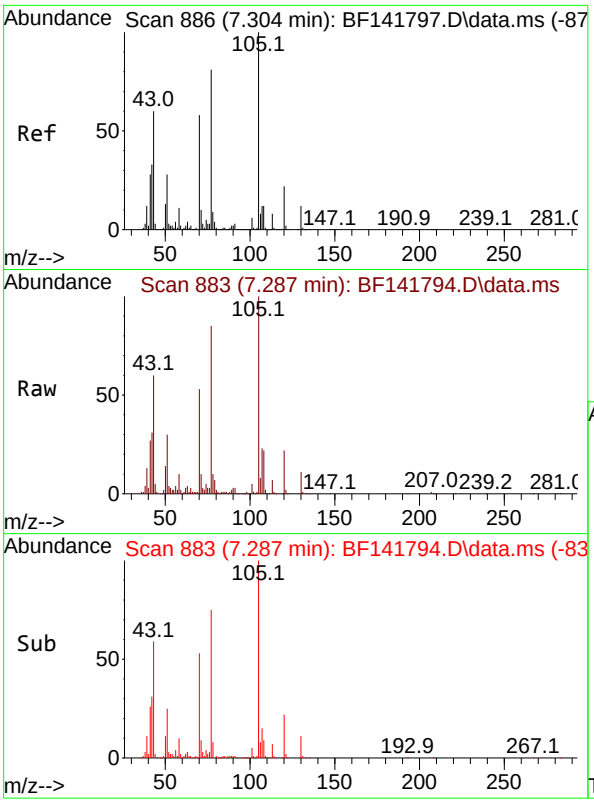


#18
Hexachloroethane
Concen: 5.110 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:117 Resp: 39359

Ion	Ratio	Lower	Upper
117	100		
119	94.7	75.8	113.8
201	98.2	76.7	115.1

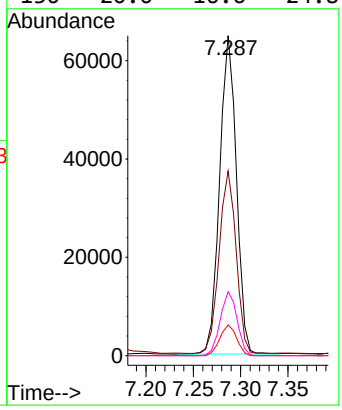




#19
n-Nitroso-di-n-propylamine
Concen: 5.300 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 70 Resp: 7994

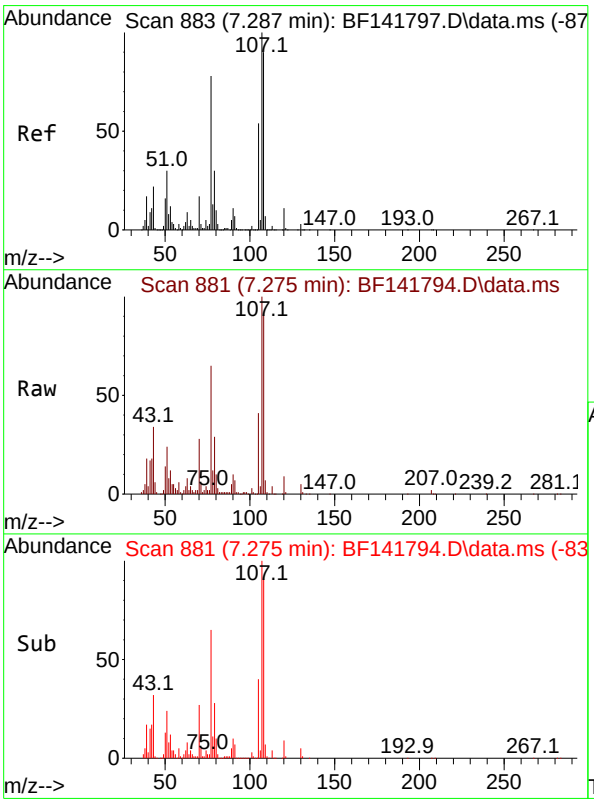
Ion	Ratio	Lower	Upper
70	100		
42	57.7	45.4	68.0
101	9.6	7.8	11.8
130	20.0	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

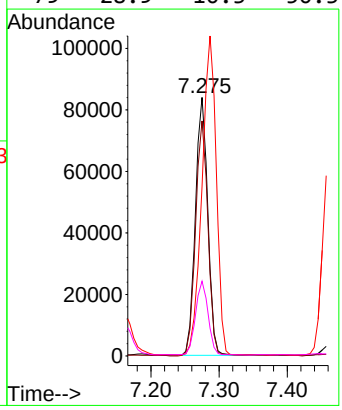
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

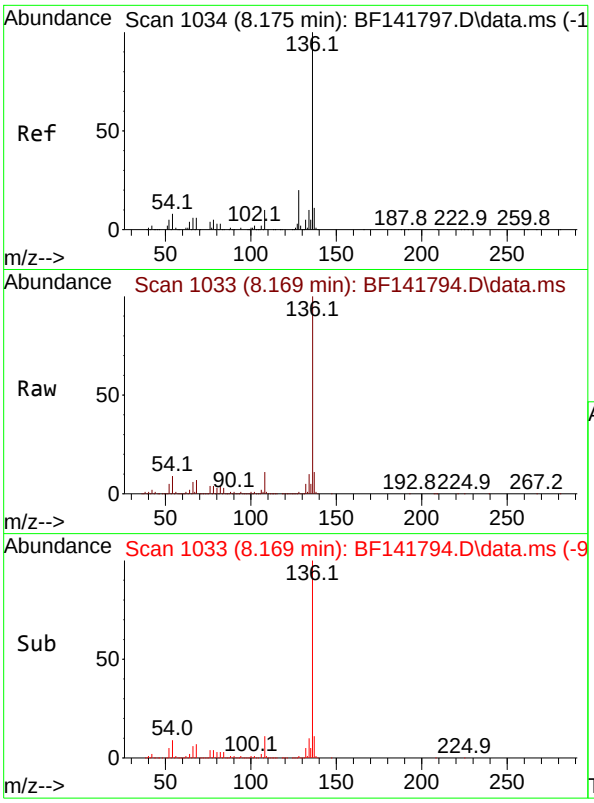


#20
3+4-Methylphenols
Concen: 5.412 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 106084

Ion	Ratio	Lower	Upper
107	100		
108	90.9	69.7	109.7
77	65.5	58.3	98.3
79	28.9	10.3	50.3

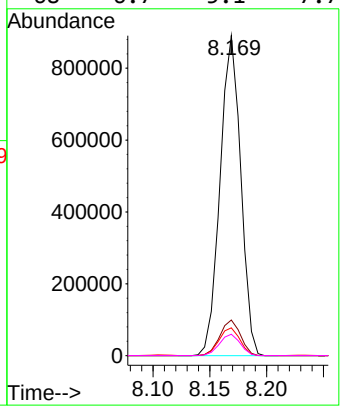




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:136 Resp: 112807

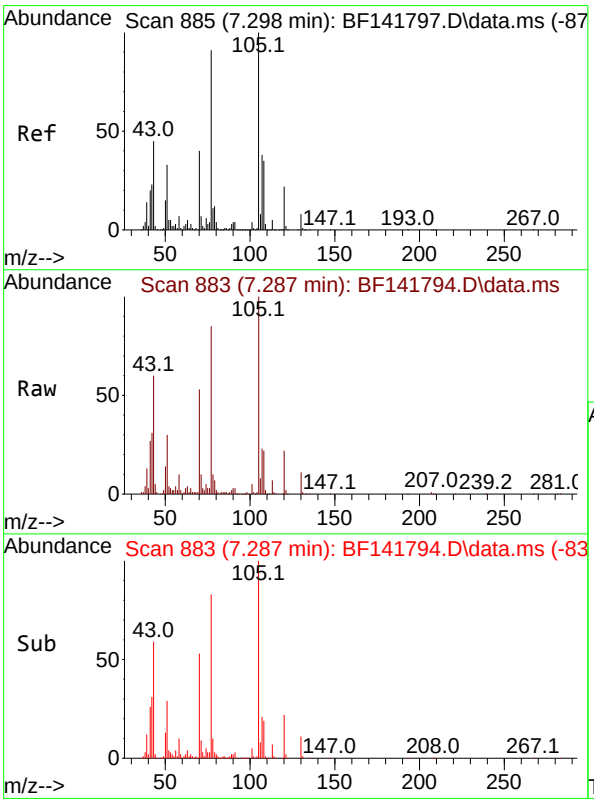
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.7	6.9	10.3
68	6.7	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

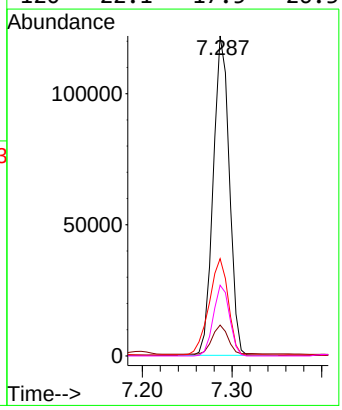
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

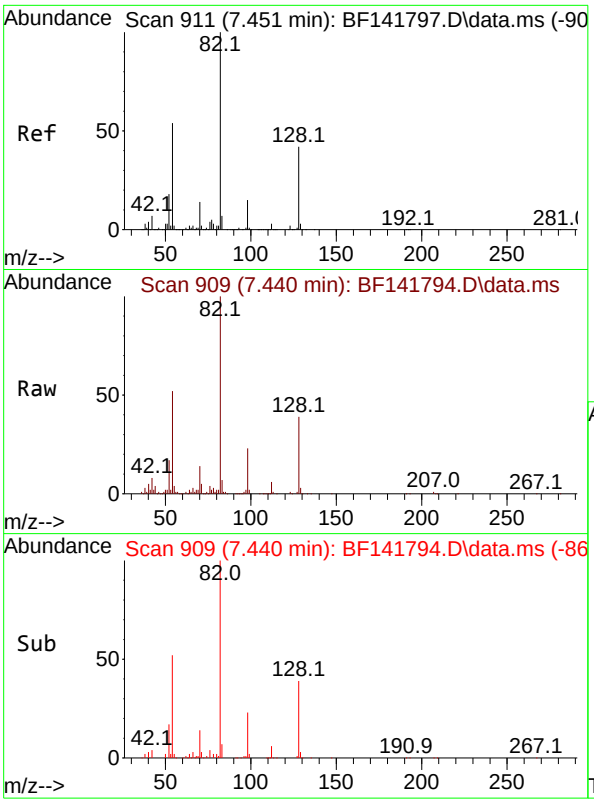


#22
Acetophenone
Concen: 5.537 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:105 Resp: 152122

Ion	Ratio	Lower	Upper
105	100		
71	9.7	5.4	8.0#
51	30.4	26.1	39.1
120	22.1	17.5	26.3





#23
Nitrobenzene-d5
Concen: 7.929 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

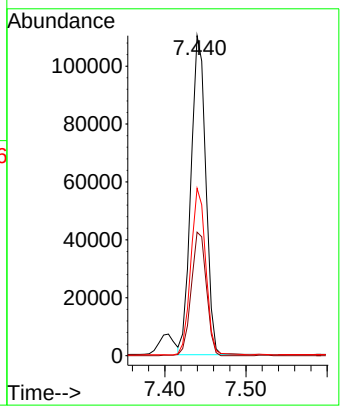
Tgt Ion: 82 Resp: 13994(

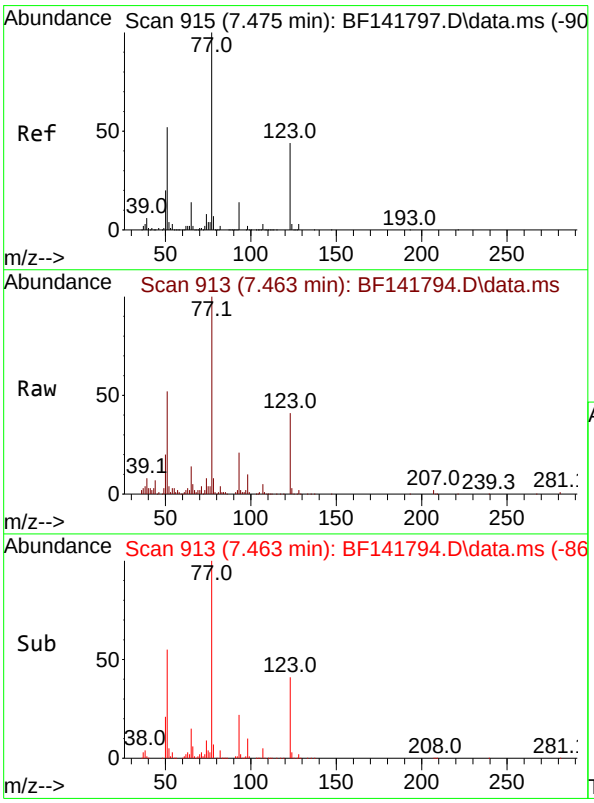
Ion	Ratio	Lower	Upper
82	100		
128	38.6	33.5	50.3
54	52.3	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

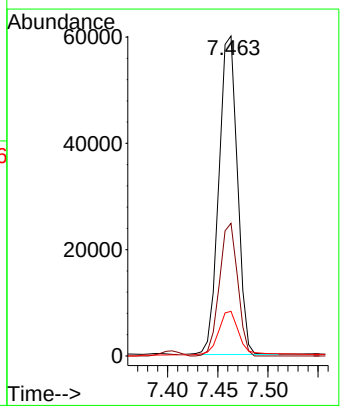


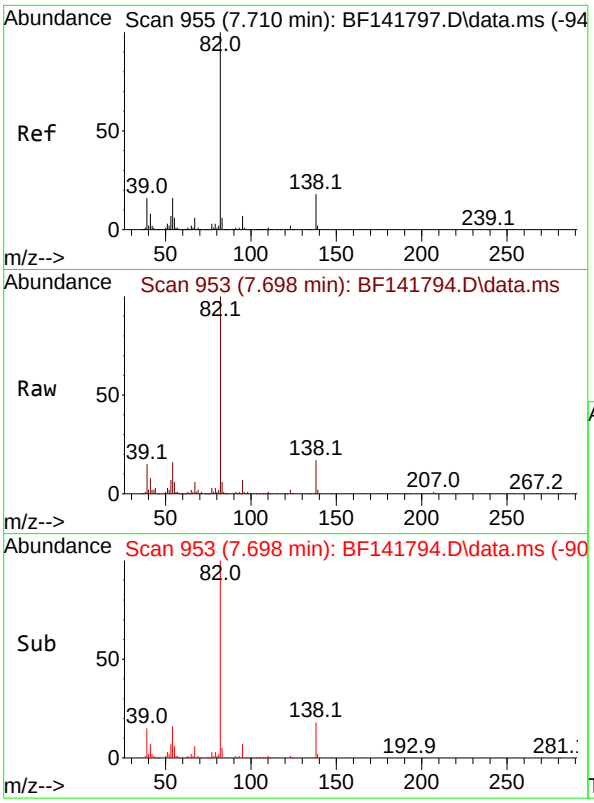


#24
Nitrobenzene
Concen: 4.071 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 76930

Ion	Ratio	Lower	Upper
77	100		
123	41.5	35.8	53.8
65	13.9	11.2	16.8





#25
Isophorone
Concen: 5.221 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

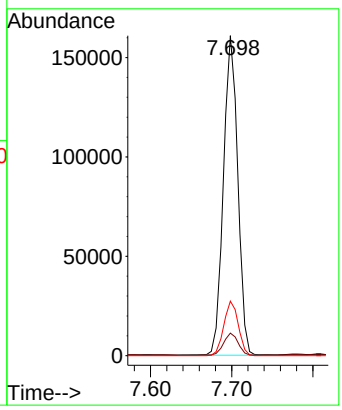
Tgt Ion: 82 Resp: 19796

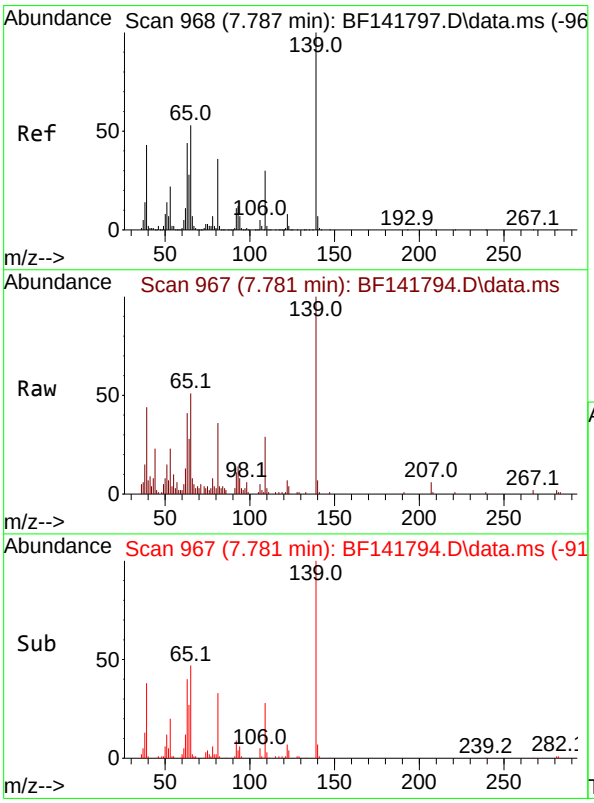
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.8
138	17.0	14.0	21.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

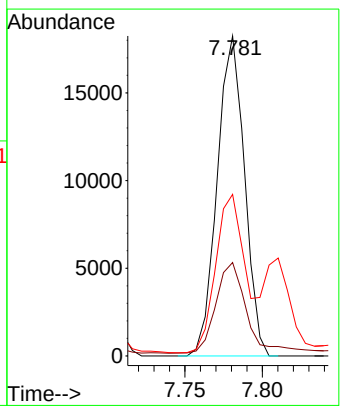


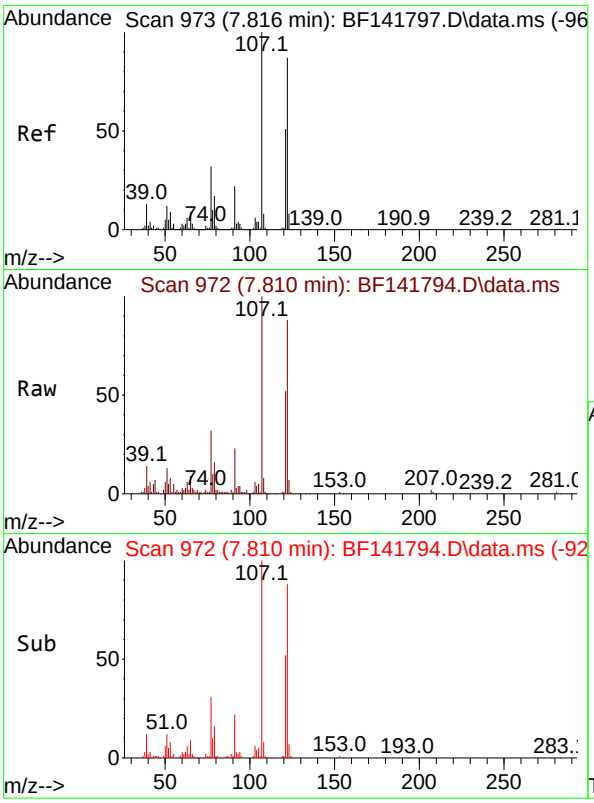


#26
2-Nitrophenol
Concen: 6.947 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:139 Resp: 22354

Ion	Ratio	Lower	Upper
139	100		
109	29.2	24.1	36.1
65	50.5	42.3	63.5





#27
2,4-Dimethylphenol
Concen: 5.211 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

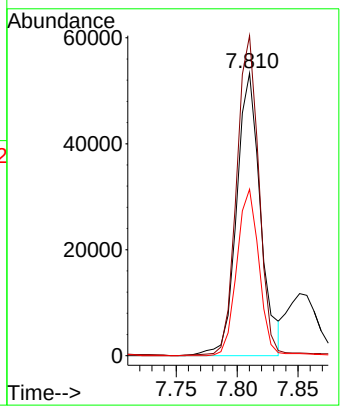
Tgt Ion:122 Resp: 7263

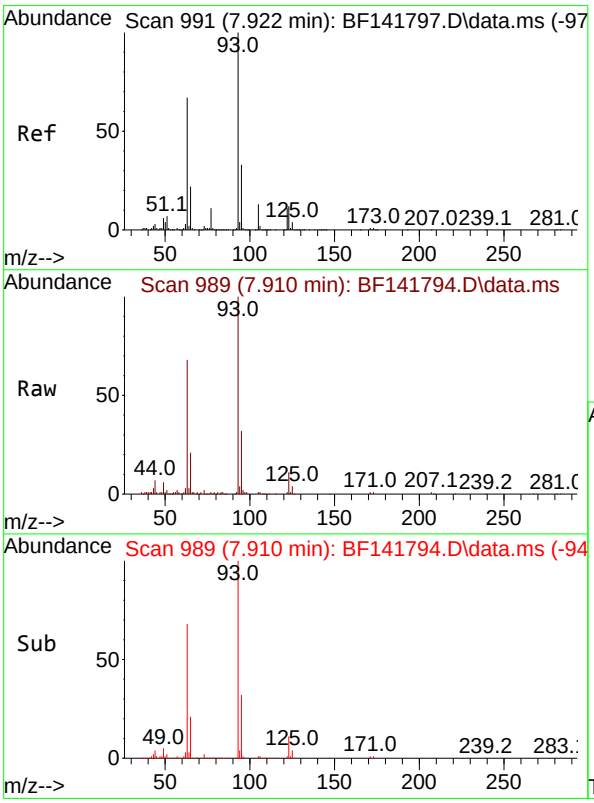
Ion	Ratio	Lower	Upper
122	100		
107	113.3	92.5	138.7
121	59.0	47.1	70.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

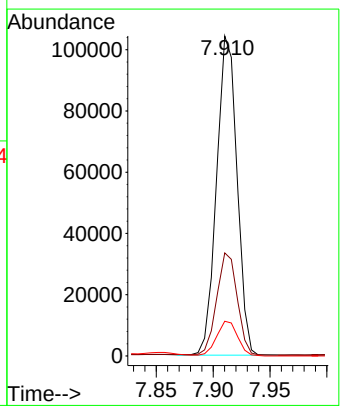


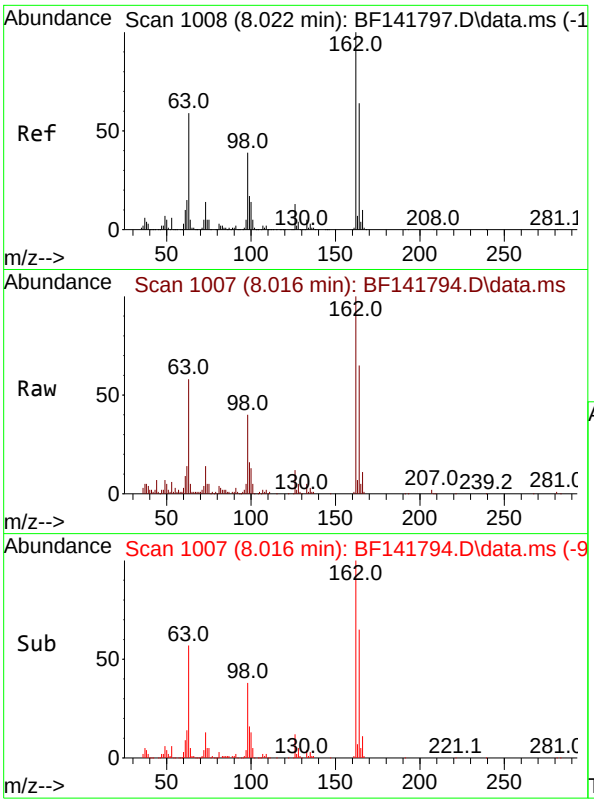


#28
bis(2-Chloroethoxy)methane
Concen: 5.395 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 130473

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.5	39.7
123	10.9	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 4.914 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

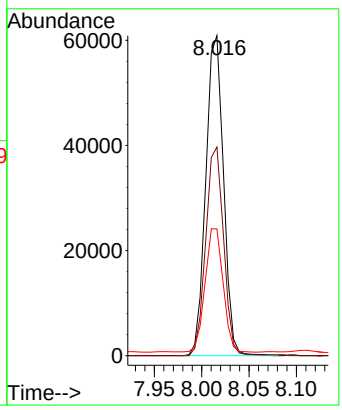
Tgt Ion:162 Resp: 7900

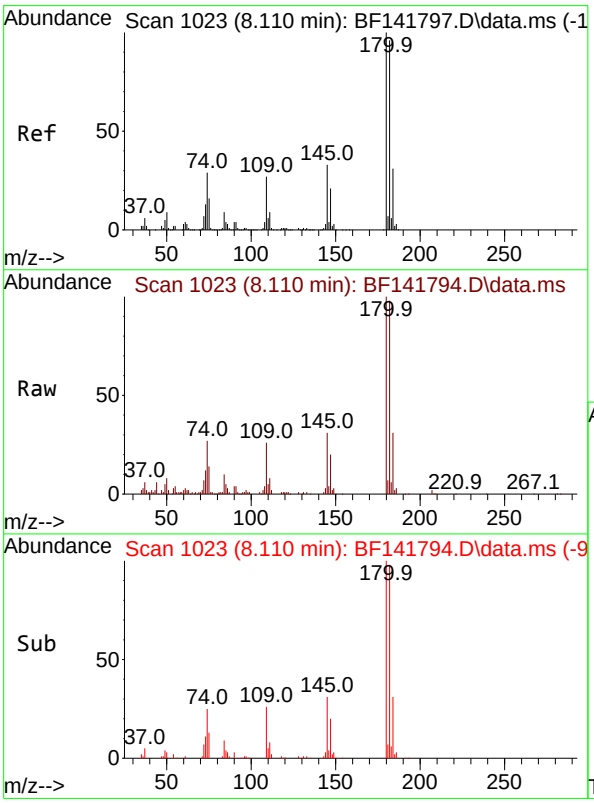
Ion	Ratio	Lower	Upper
162	100		
164	65.2	44.3	84.3
98	39.6	19.6	59.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

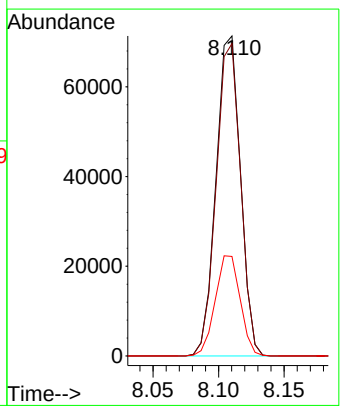


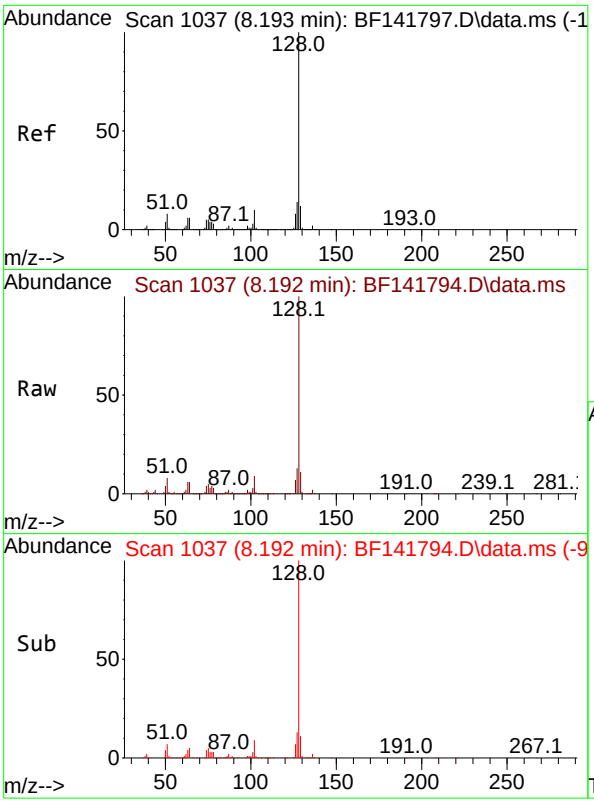


#30
1,2,4-Trichlorobenzene
Concen: 5.244 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:180 Resp: 92399

Ion	Ratio	Lower	Upper
180	100		
182	97.6	76.8	115.2
145	31.1	26.4	39.6

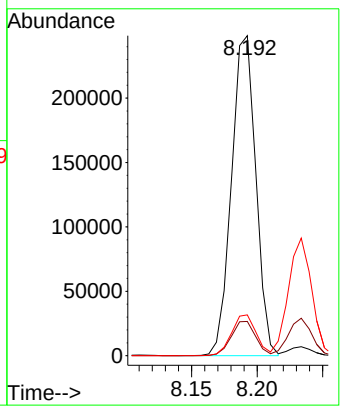




#31
Naphthalene
Concen: 5.546 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 32154

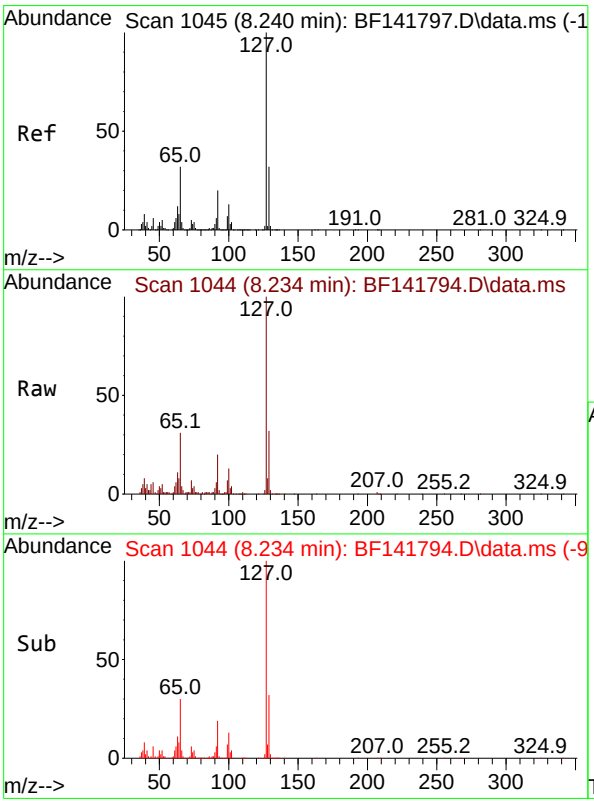
Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.2	13.8
127	12.8	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

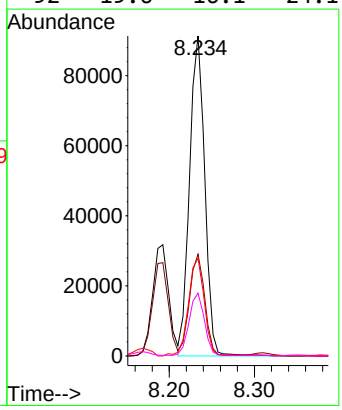
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

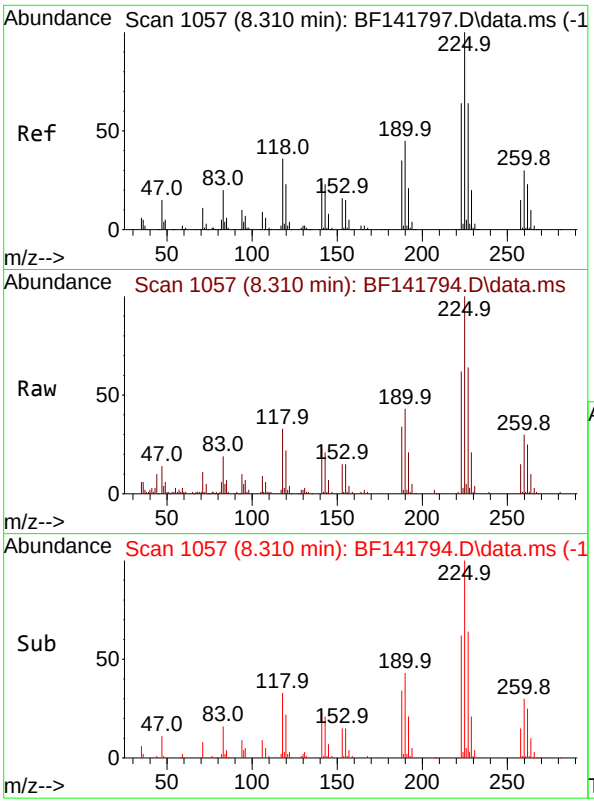


#33
4-Chloroaniline
Concen: 5.335 ng
RT: 8.234 min Scan# 1044
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:127 Resp: 113407

Ion	Ratio	Lower	Upper
127	100		
129	31.8	26.1	39.1
65	30.5	25.7	38.5
92	19.6	16.1	24.1





#34
Hexachlorobutadiene
Concen: 5.134 ng
RT: 8.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

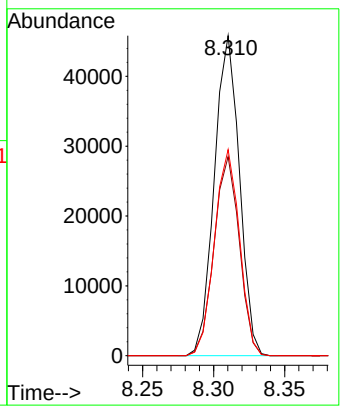
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

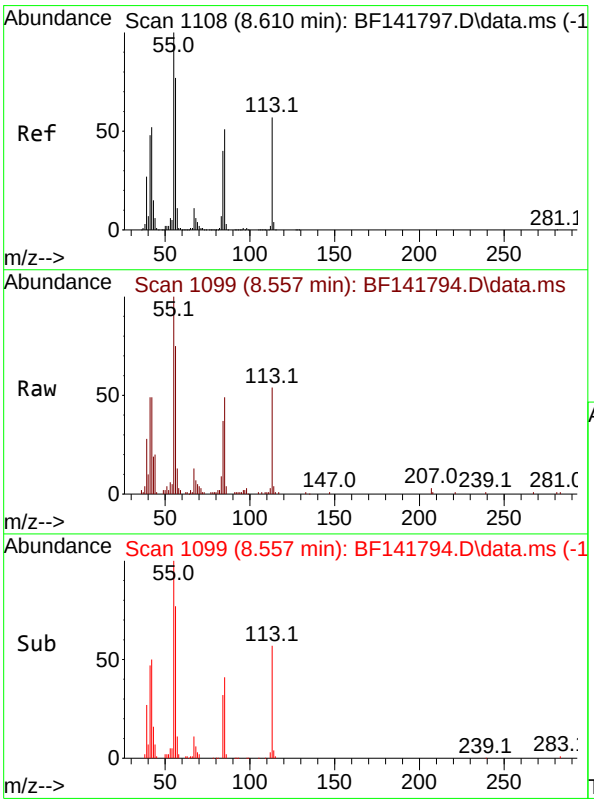
Tgt Ion:225 Resp: 5620

Ion	Ratio	Lower	Upper
225	100		
223	62.2	51.4	77.2
227	64.4	51.6	77.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

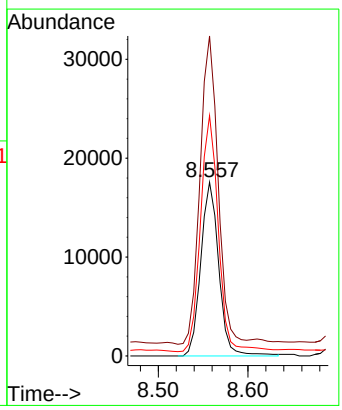


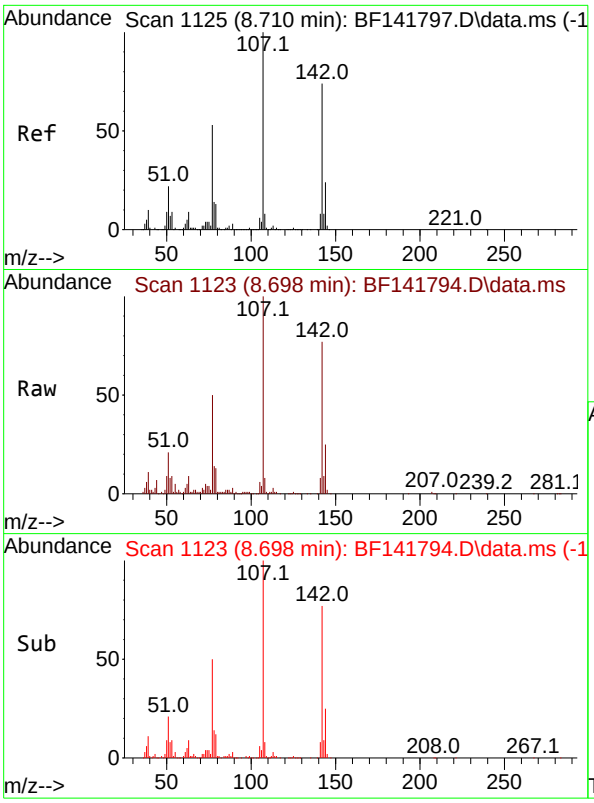


#35
Caprolactam
Concen: 4.946 ng
RT: 8.557 min Scan# 1099
Delta R.T. -0.053 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:113 Resp: 24467

Ion	Ratio	Lower	Upper
113	100		
55	184.1	155.6	195.6
56	138.2	114.6	154.6





#36
4-Chloro-3-methylphenol
Concen: 5.262 ng
RT: 8.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

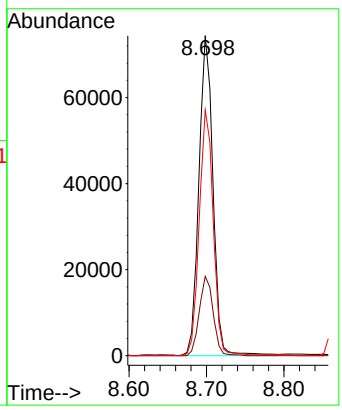
Tgt Ion:107 Resp: 9398

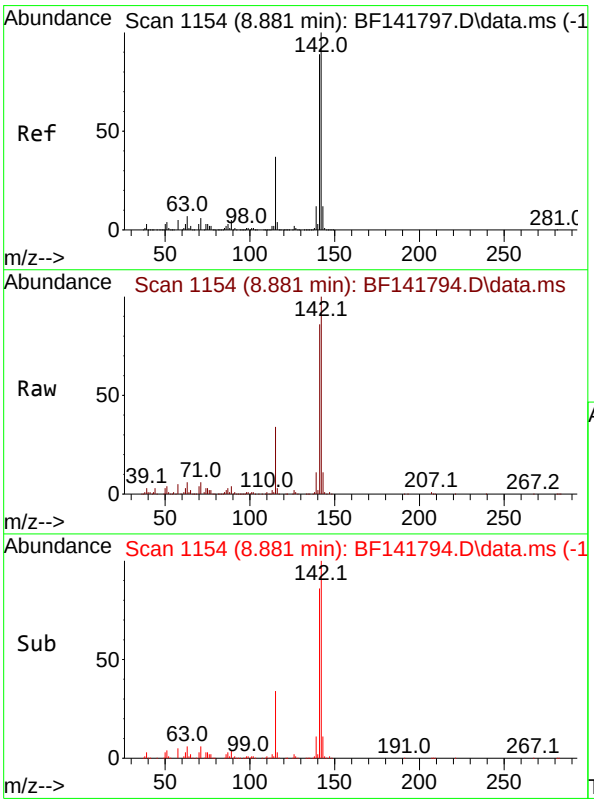
Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.4	29.0
142	76.8	59.4	89.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

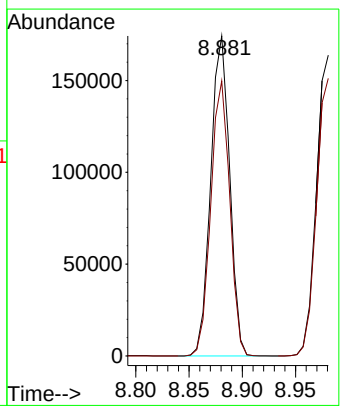


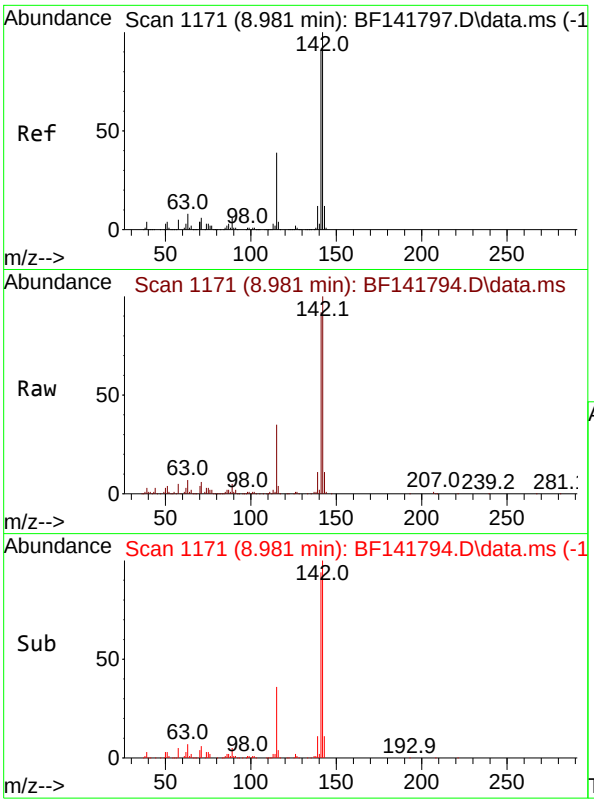


#37
2-Methylnaphthalene
Concen: 5.653 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 214971

Ion	Ratio	Lower	Upper
142	100		
141	86.0	71.1	106.7

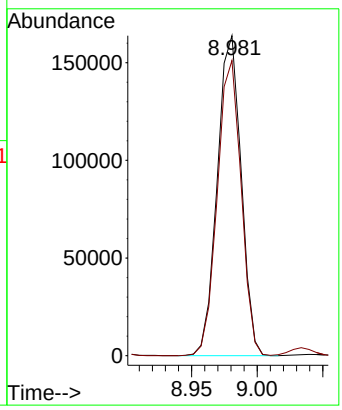




#38
1-Methylnaphthalene
Concen: 5.676 ng
RT: 8.981 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 20709

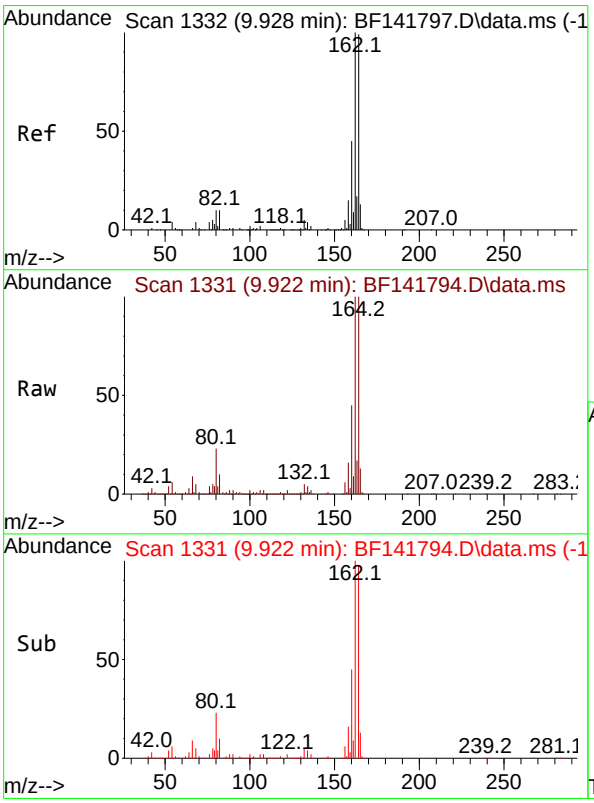
Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

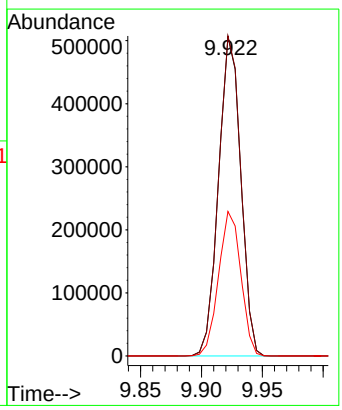
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

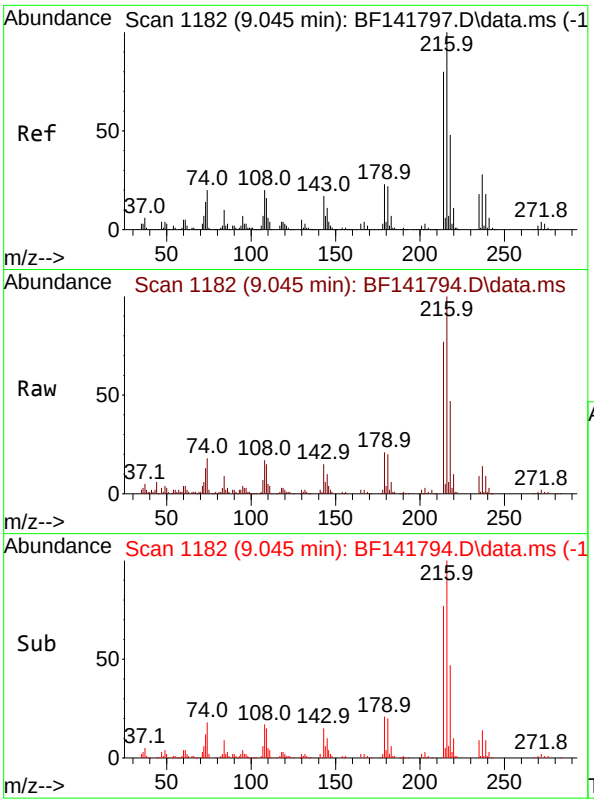


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:164 Resp: 643922

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.6	120.8
160	45.3	36.3	54.5

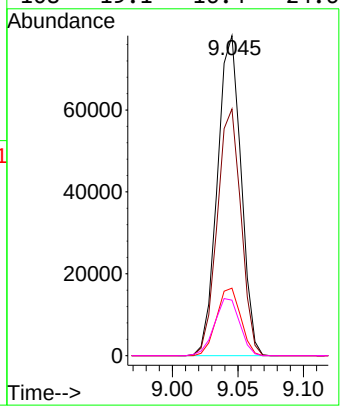




#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.275 ng
RT: 9.045 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:216 Resp: 9810

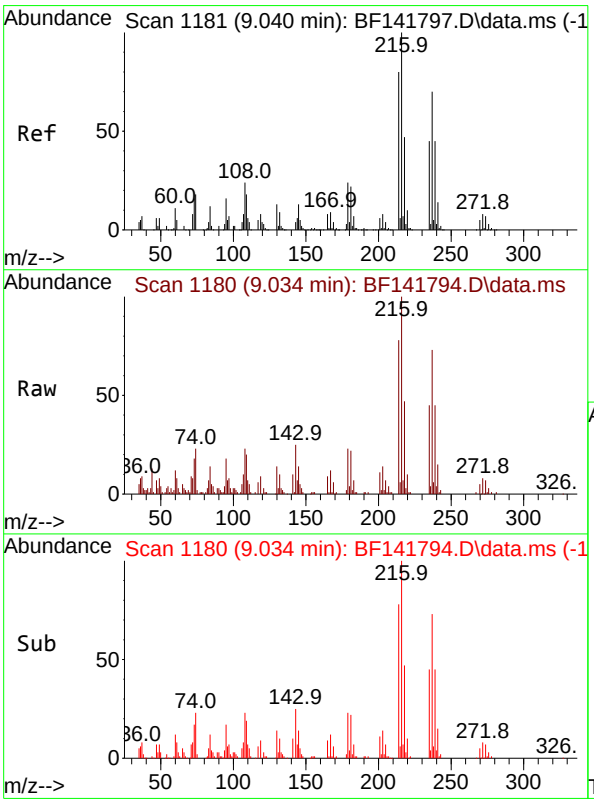
Ion	Ratio	Lower	Upper
216	100		
214	77.2	63.5	95.3
179	21.5	18.1	27.1
108	19.1	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

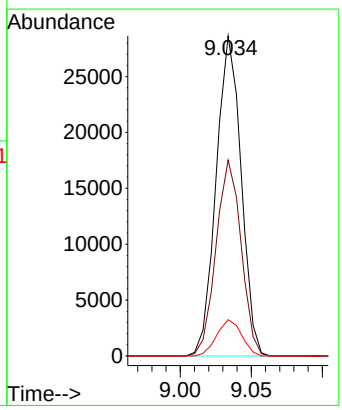
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

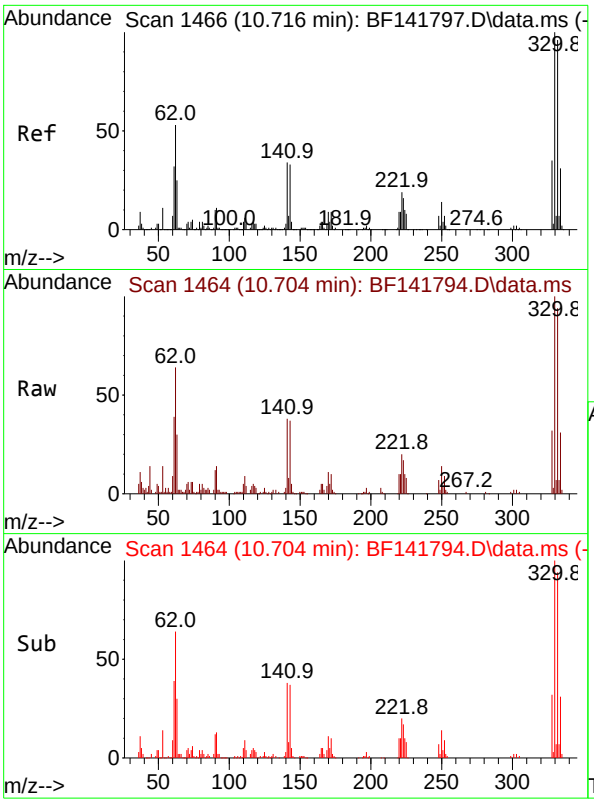


#41
Hexachlorocyclopentadiene
Concen: 4.508 ng
RT: 9.034 min Scan# 1180
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:237 Resp: 34990

Ion	Ratio	Lower	Upper
237	100		
235	61.2	43.3	83.3
272	11.4	0.0	31.9

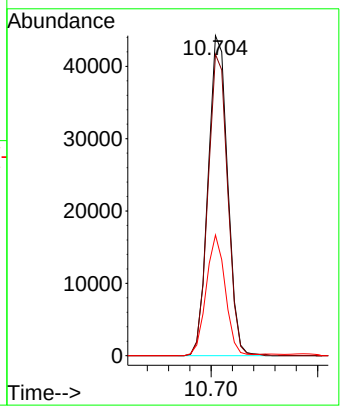




#42
2,4,6-Tribromophenol
Concen: 9.331 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:330 Resp: 5640

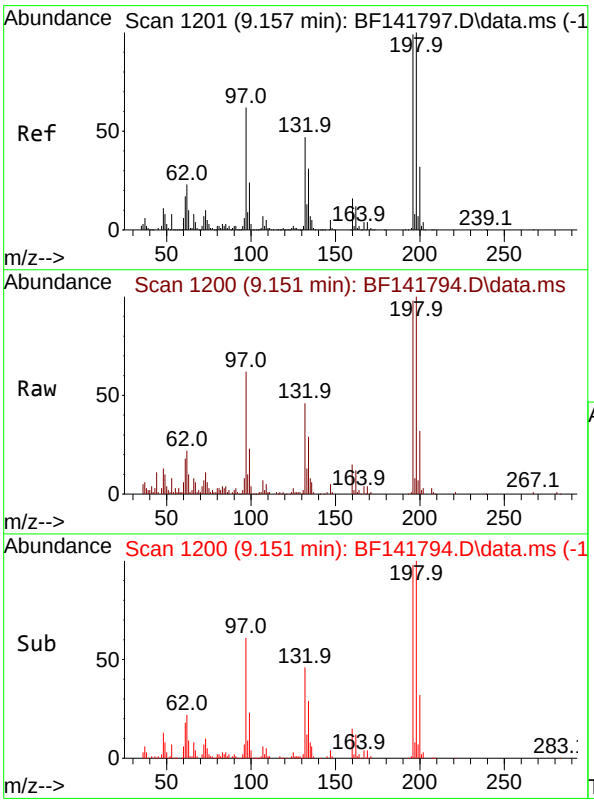
Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.6	115.0
141	37.1	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

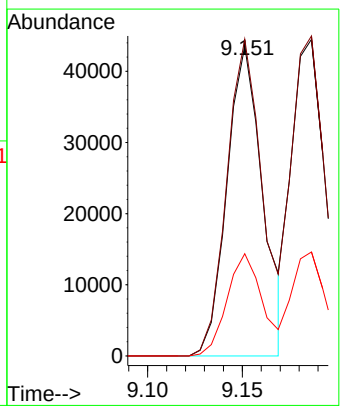
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

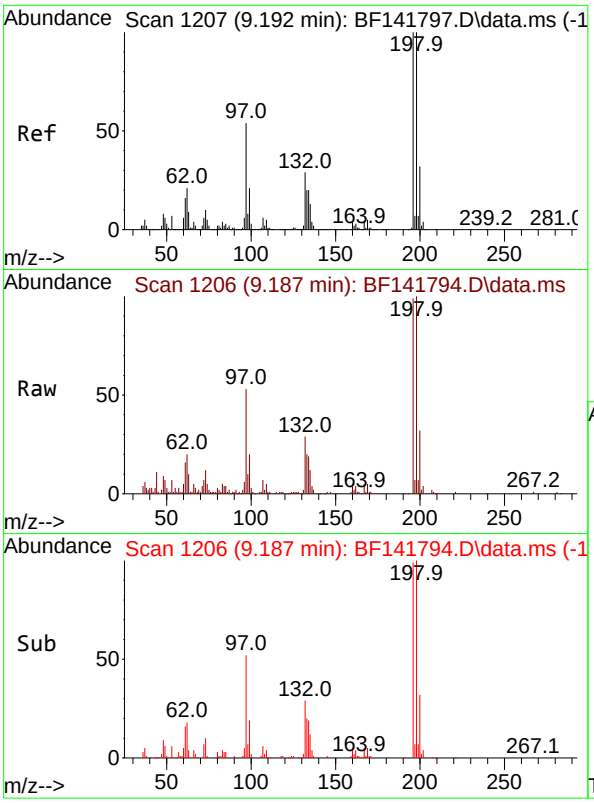


#43
2,4,6-Trichlorophenol
Concen: 4.753 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 57097

Ion	Ratio	Lower	Upper
196	100		
198	102.2	80.4	120.6
200	33.0	25.7	38.5

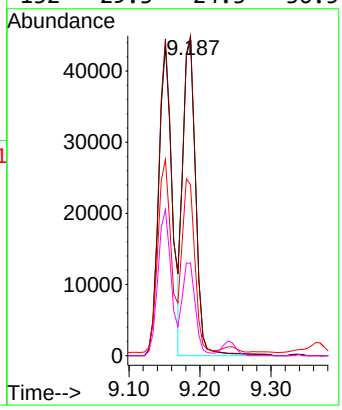




#44
2,4,5-Trichlorophenol
Concen: 4.706 ng
RT: 9.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 5597

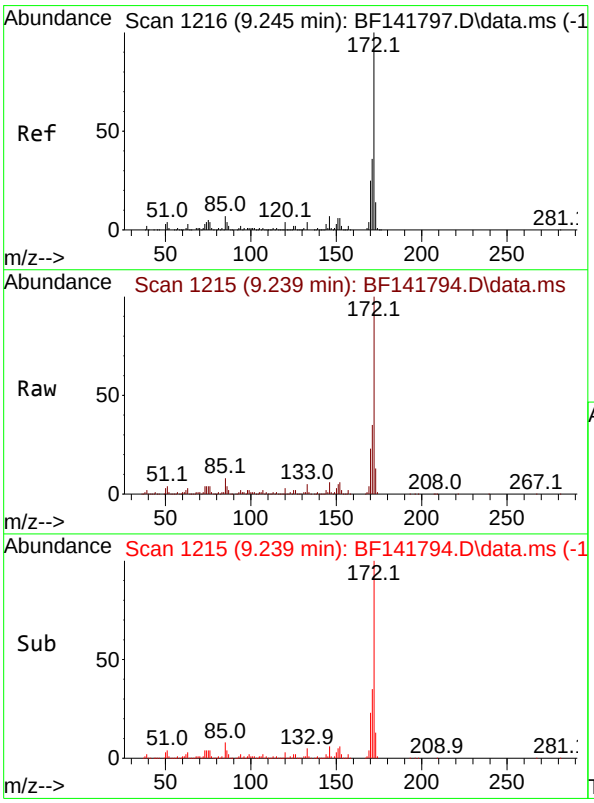
Ion	Ratio	Lower	Upper
196	100		
198	101.1	79.7	119.5
97	54.0	44.2	66.2
132	29.3	24.3	36.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

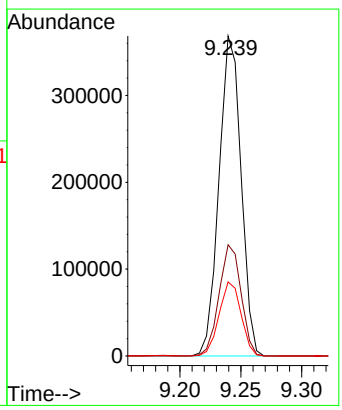
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

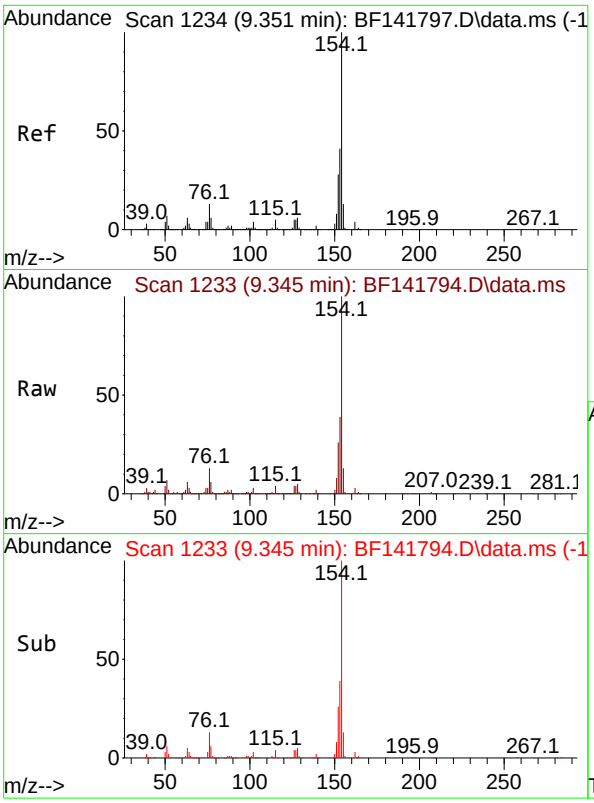


#45
2-Fluorobiphenyl
Concen: 11.570 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:172 Resp: 464621

Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.2	43.8
170	23.2	19.7	29.5

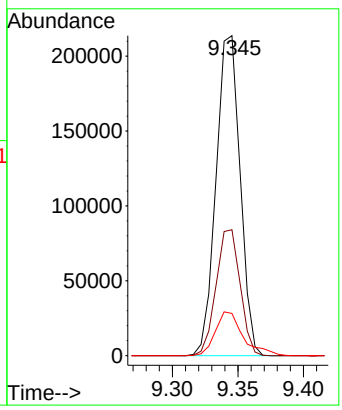




#46
1,1'-Biphenyl
Concen: 5.563 ng
RT: 9.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 27264

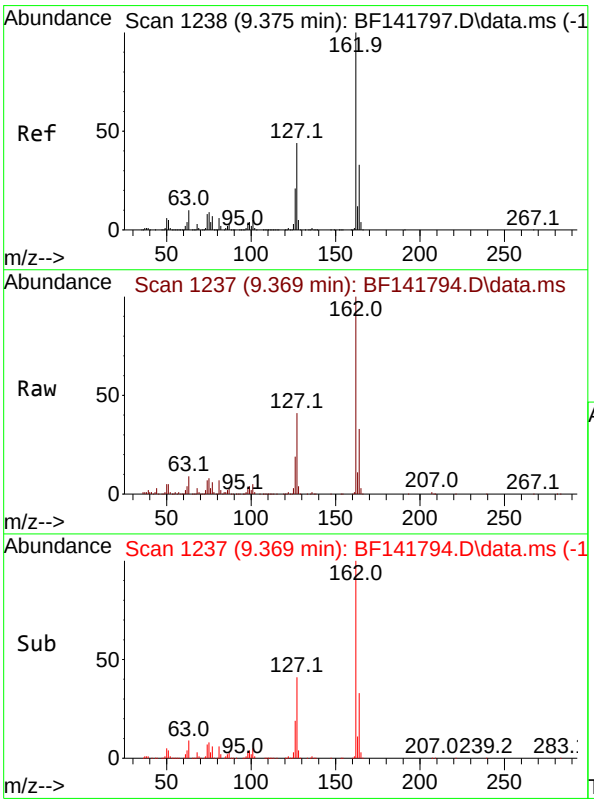
Ion	Ratio	Lower	Upper
154	100		
153	39.4	21.4	61.4
76	13.2	0.0	33.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

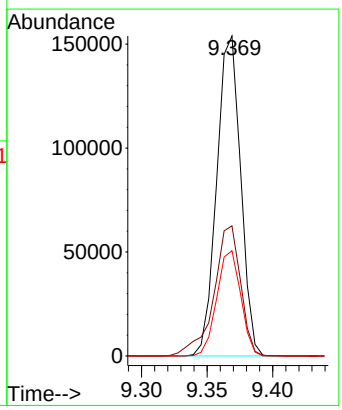
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

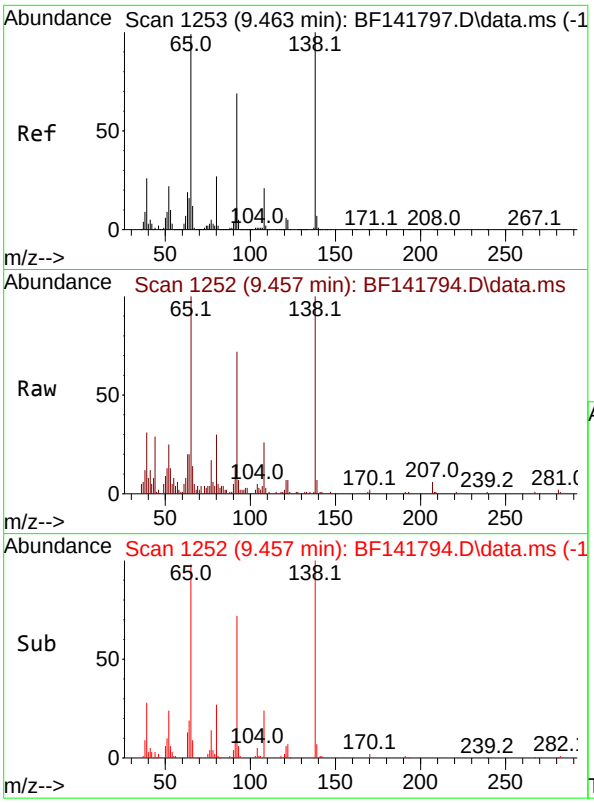


#47
2-Chloronaphthalene
Concen: 5.388 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:162 Resp: 194915

Ion	Ratio	Lower	Upper
162	100		
127	40.7	35.0	52.6
164	32.9	26.6	40.0





#48
2-Nitroaniline
Concen: 6.586 ng
RT: 9.457 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

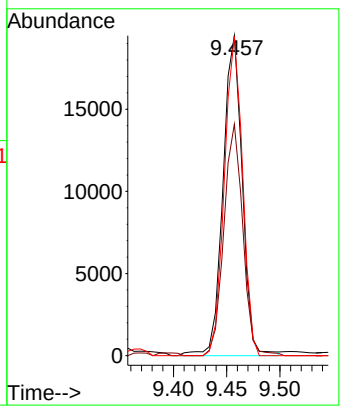
Tgt Ion: 65 Resp: 2446

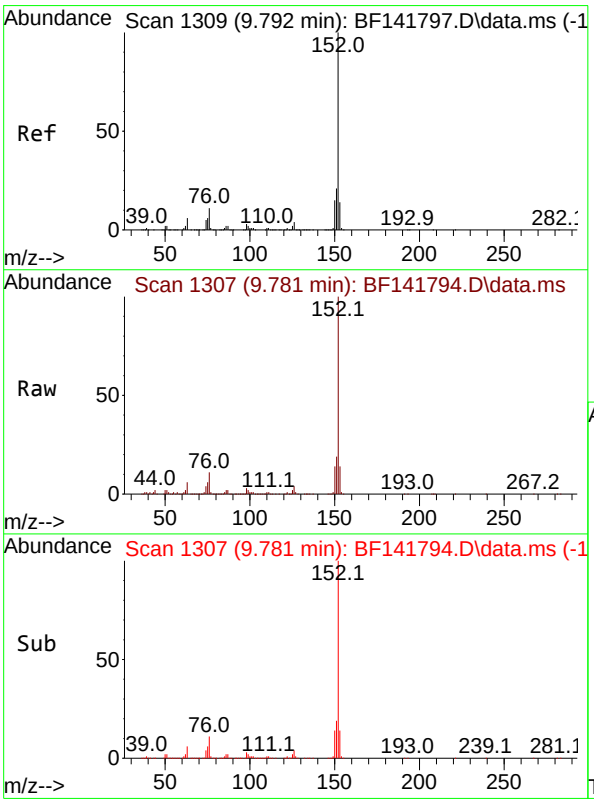
Ion	Ratio	Lower	Upper
65	100		
92	72.3	55.7	83.5
138	99.8	80.6	121.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

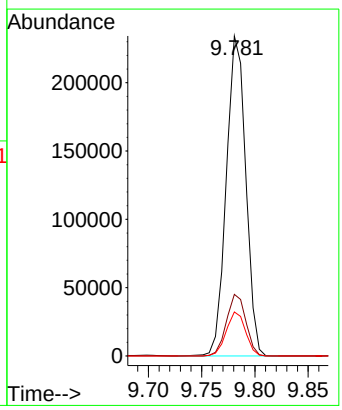


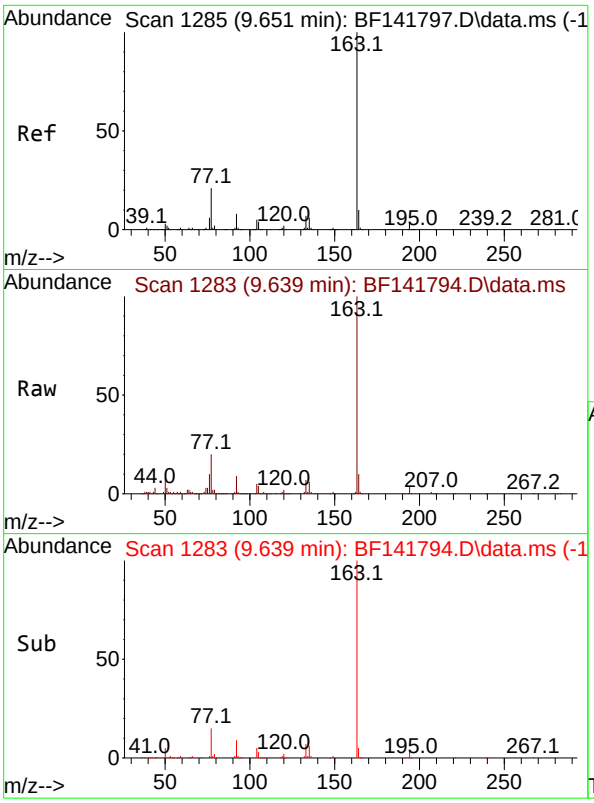


#49
Acenaphthylene
Concen: 5.481 ng
RT: 9.781 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 297257

Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.6	24.8
153	13.8	11.2	16.8

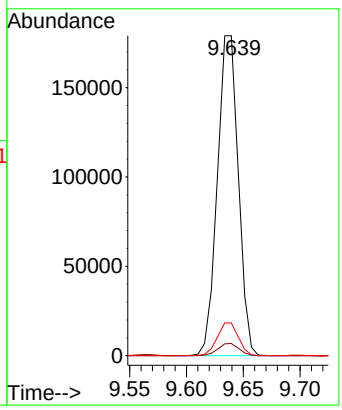




#50
Dimethylphthalate
Concen: 5.344 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:163 Resp: 23042

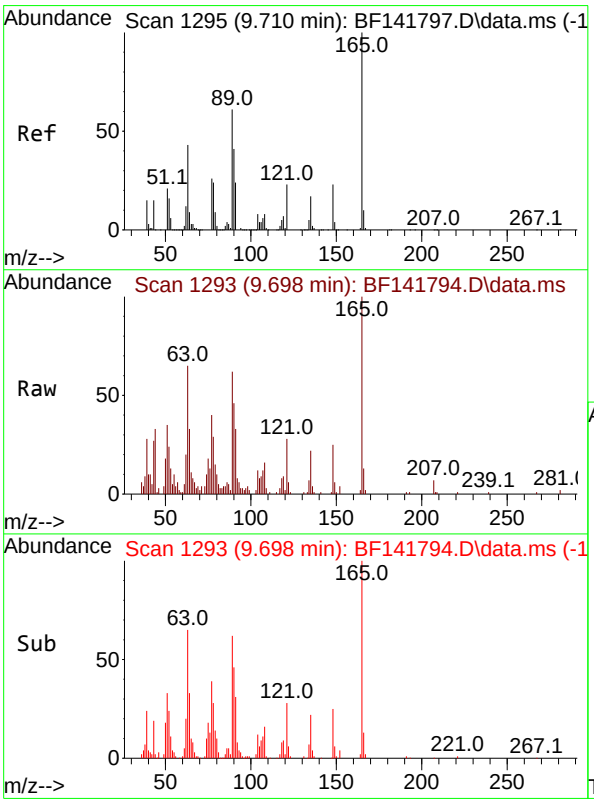
Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.2	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

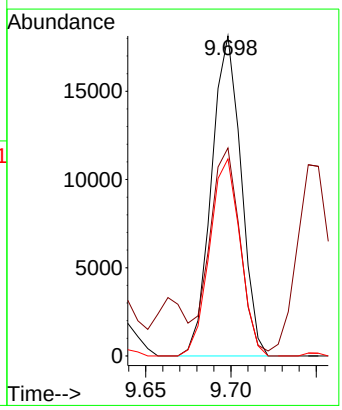
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

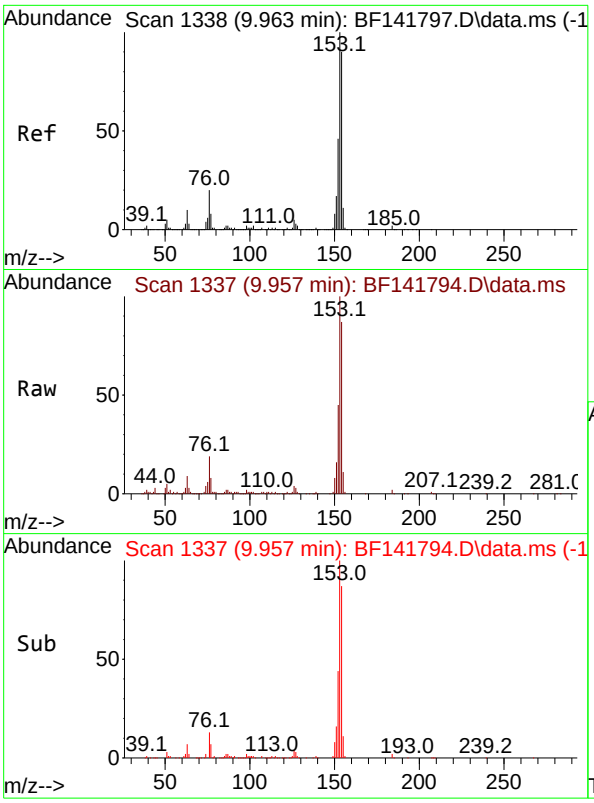


#51
2,6-Dinitrotoluene
Concen: 5.327 ng
RT: 9.698 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 21902

Ion	Ratio	Lower	Upper
165	100		
63	65.0	49.5	74.3
89	61.6	49.0	73.4

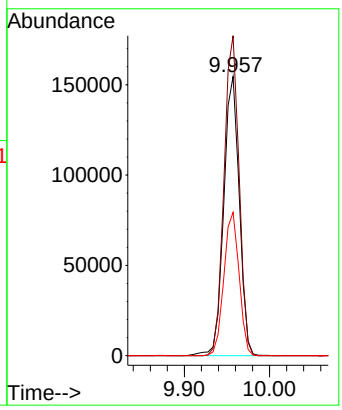




#52
Acenaphthene
Concen: 5.353 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 19591

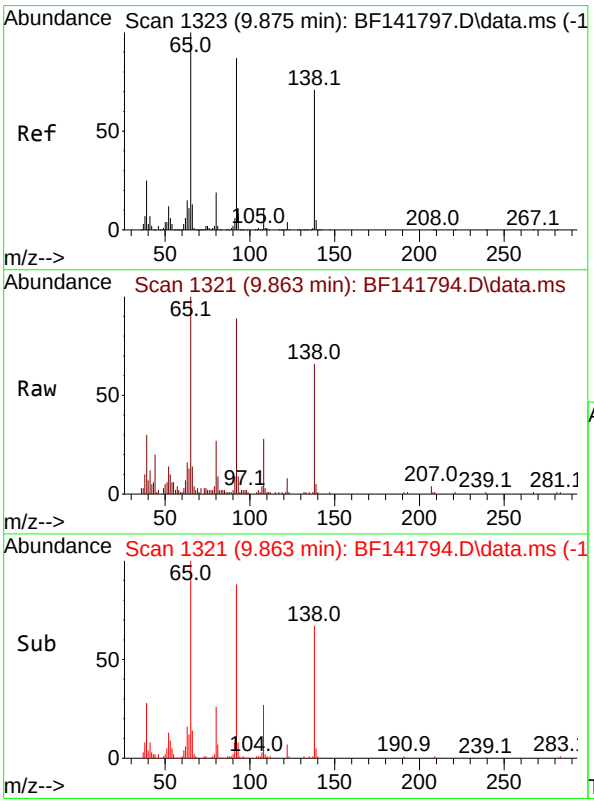
Ion	Ratio	Lower	Upper
154	100		
153	114.6	88.7	133.1
152	51.4	40.9	61.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

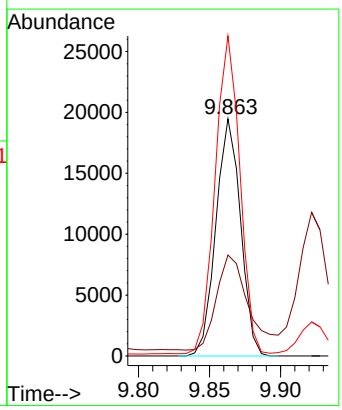
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

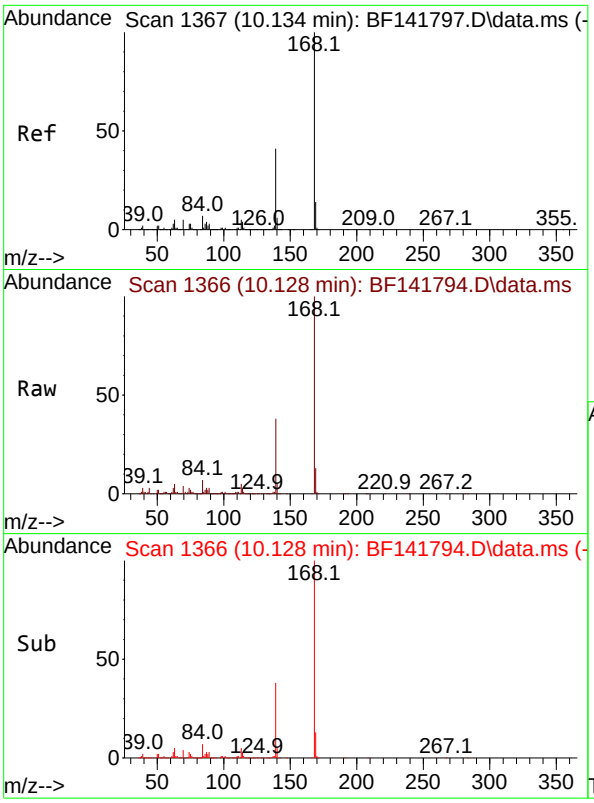


#53
3-Nitroaniline
Concen: 5.471 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:138 Resp: 23458

Ion	Ratio	Lower	Upper
138	100		
108	42.5	12.7	19.1#
92	134.9	97.9	146.9

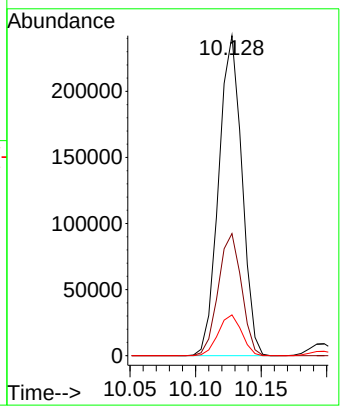




#55
Dibenzofuran
Concen: 5.590 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:168 Resp: 29775

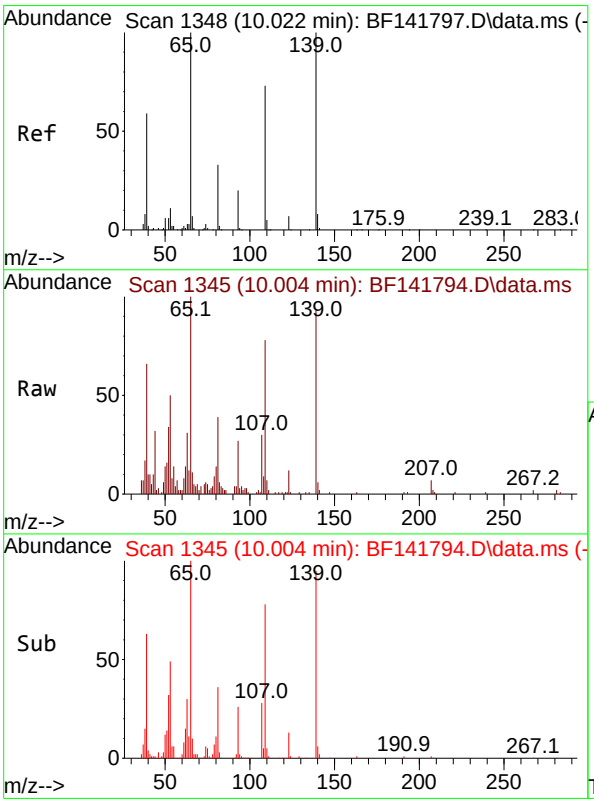
Ion	Ratio	Lower	Upper
168	100		
139	38.1	32.9	49.3
169	12.8	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

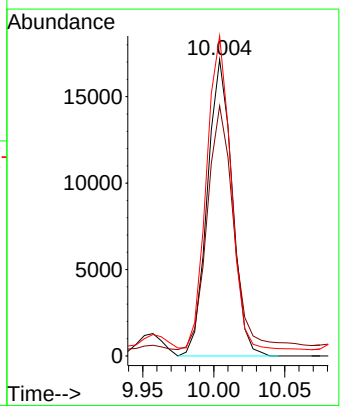
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

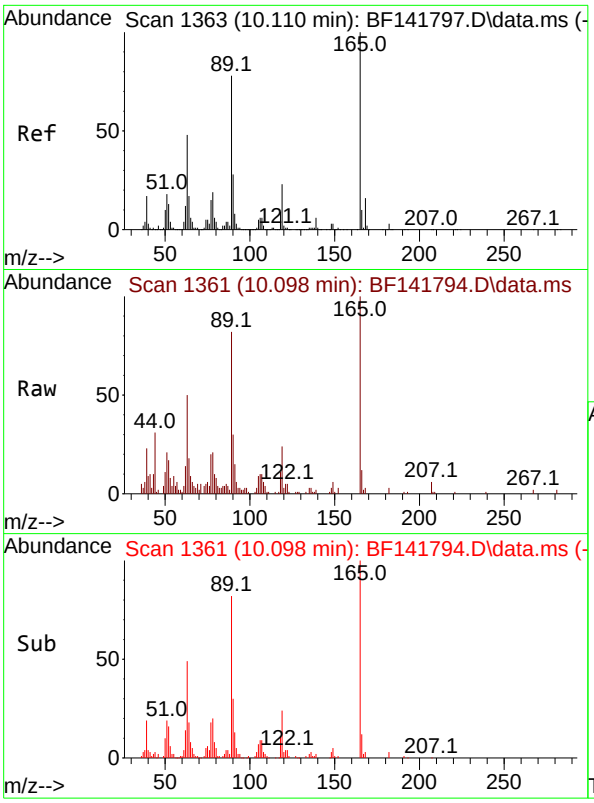


#56
4-Nitrophenol
Concen: 3.272 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:139 Resp: 20838

Ion	Ratio	Lower	Upper
139	100		
109	84.4	53.4	93.4
65	107.9	82.1	122.1

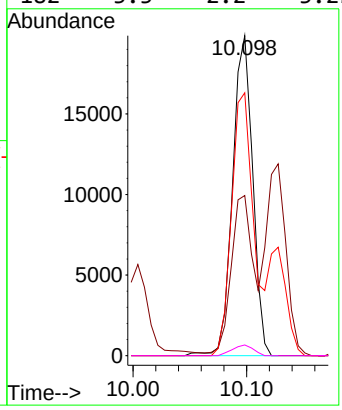




#57
2,4-Dinitrotoluene
Concen: 5.755 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 2425

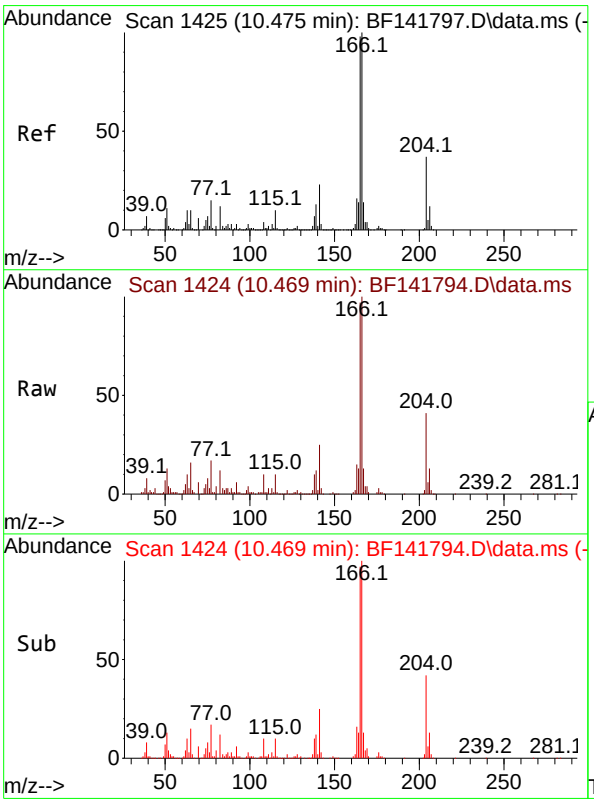
Ion	Ratio	Lower	Upper
165	100		
63	50.0	38.8	58.2
89	82.2	62.6	94.0
182	3.3	2.2	3.2#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

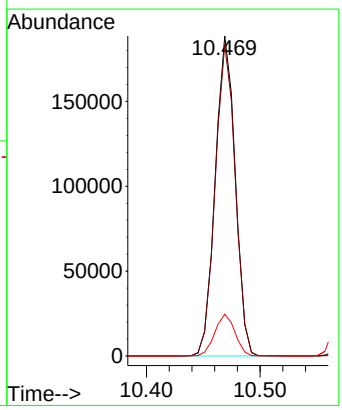
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

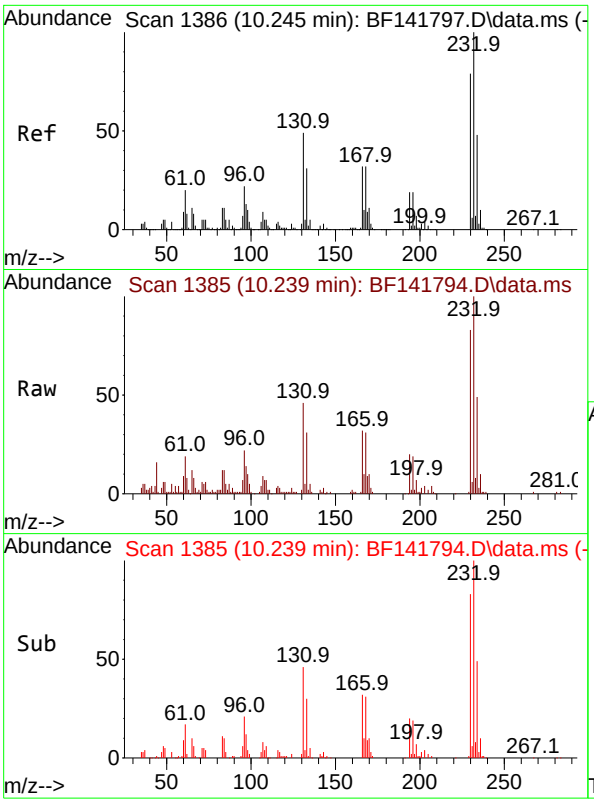


#58
Fluorene
Concen: 5.782 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:166 Resp: 230713

Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.6	117.8
167	13.0	11.0	16.4

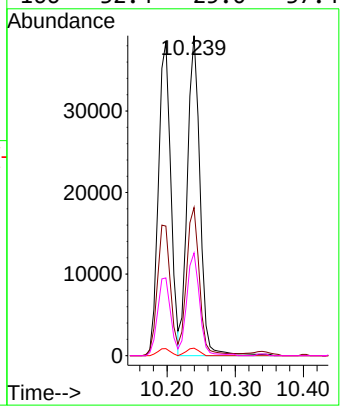




#59
2,3,4,6-Tetrachlorophenol
Concen: 4.873 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:232 Resp: 5041

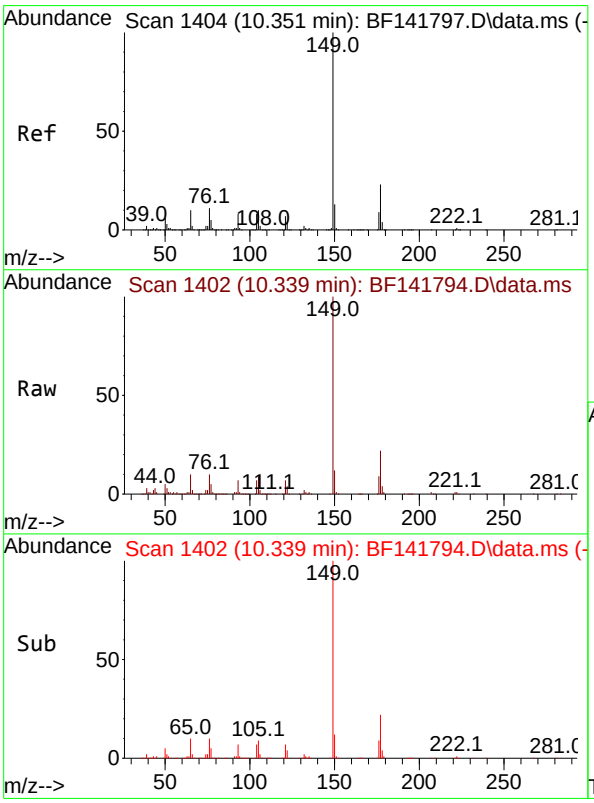
Ion	Ratio	Lower	Upper
232	100		
131	47.2	37.8	56.8
130	2.4	2.0	3.0
166	32.4	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

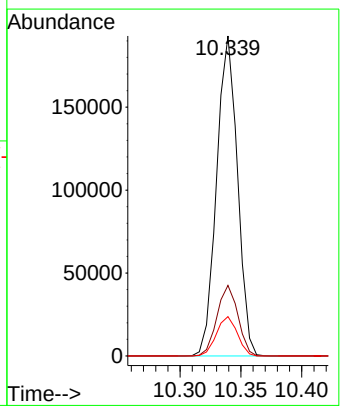
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

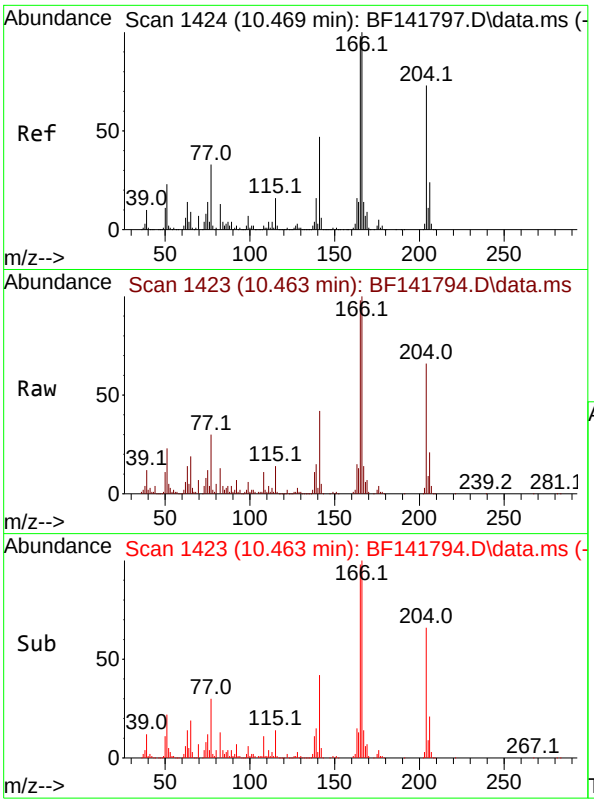


#60
Diethylphthalate
Concen: 5.322 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 230060

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.3	27.5
150	12.3	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 5.561 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

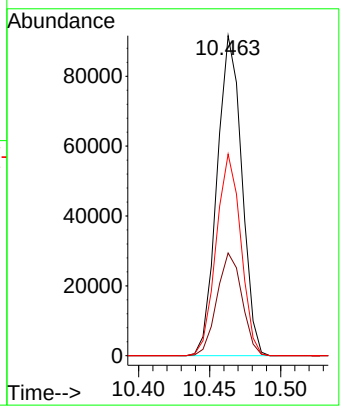
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

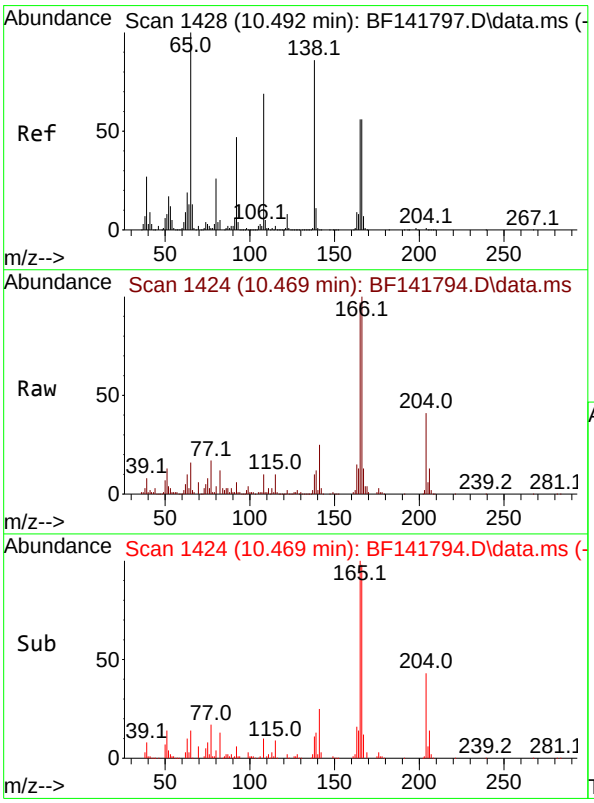
Tgt Ion:204 Resp: 111169

Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.2	39.4
141	63.0	51.7	77.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

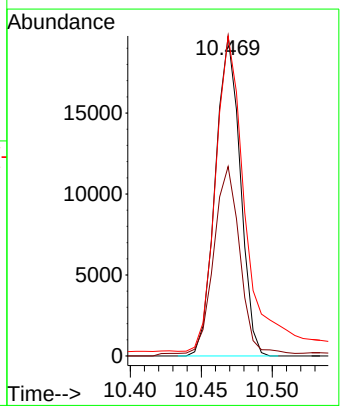


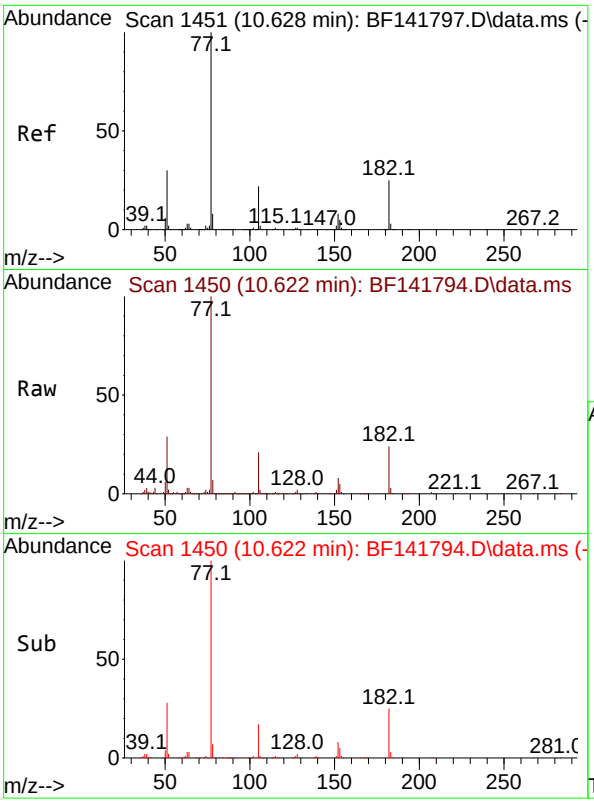


#62
4-Nitroaniline
Concen: 3.260 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:138 Resp: 24006

Ion	Ratio	Lower	Upper
138	100		
92	59.3	34.9	74.9
108	100.2	59.6	99.6#

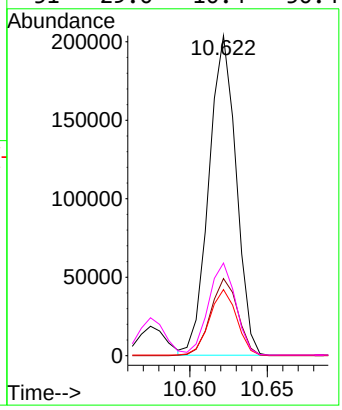




#63
Azobenzene
Concen: 5.460 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 248519

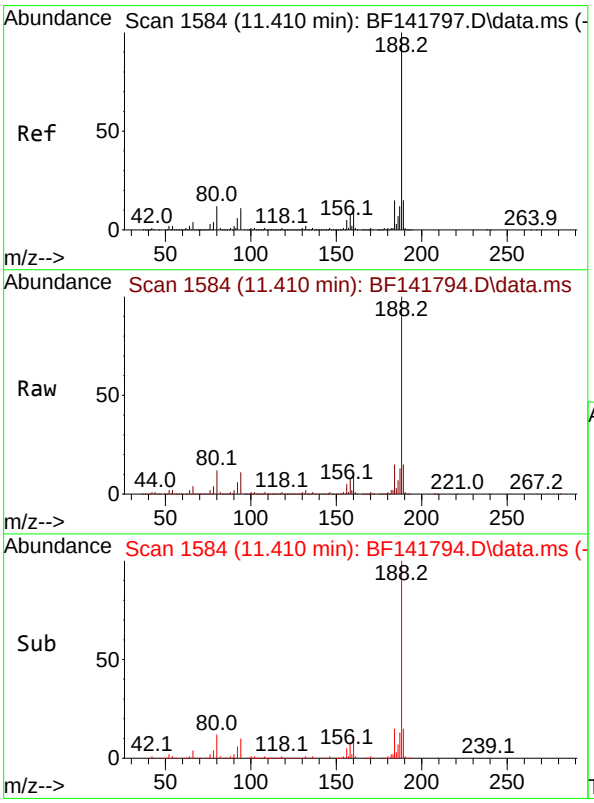
Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.2	44.2
105	20.7	1.5	41.5
51	29.0	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

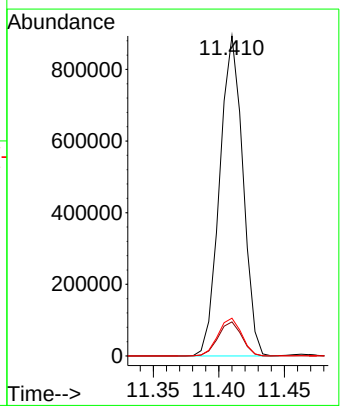
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

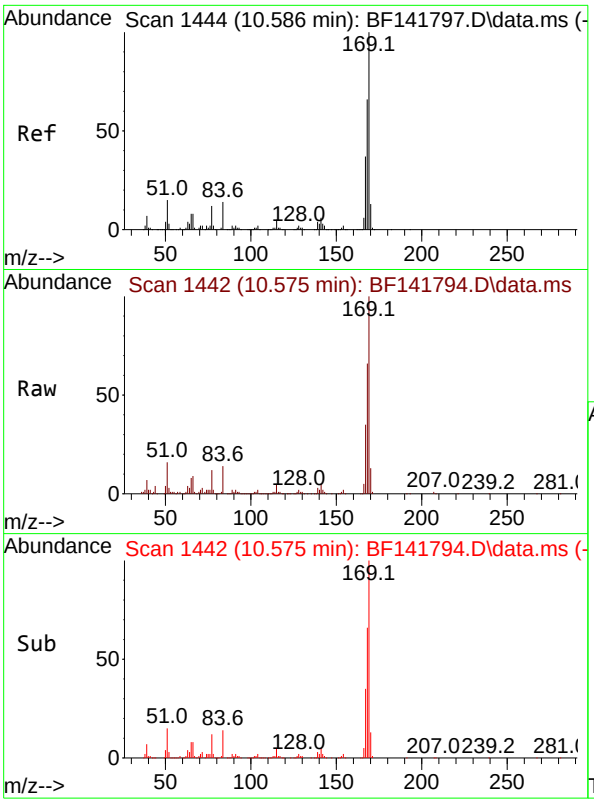


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:188 Resp: 1101046

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.9	13.3
80	11.8	9.7	14.5

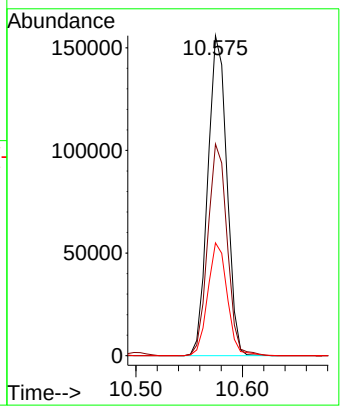




#66
n-Nitrosodiphenylamine
Concen: 5.344 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:169 Resp: 19320

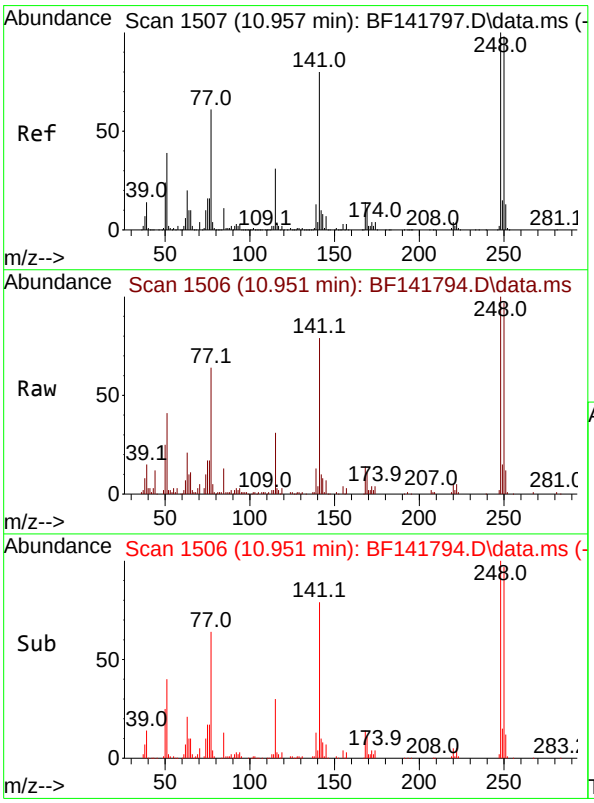
Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.6
167	35.2	29.3	43.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

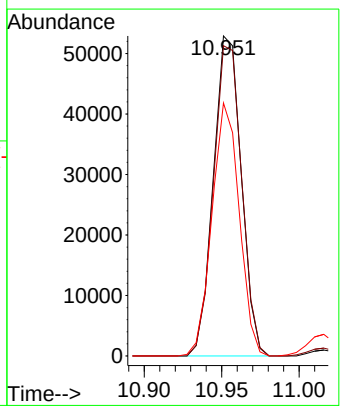
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

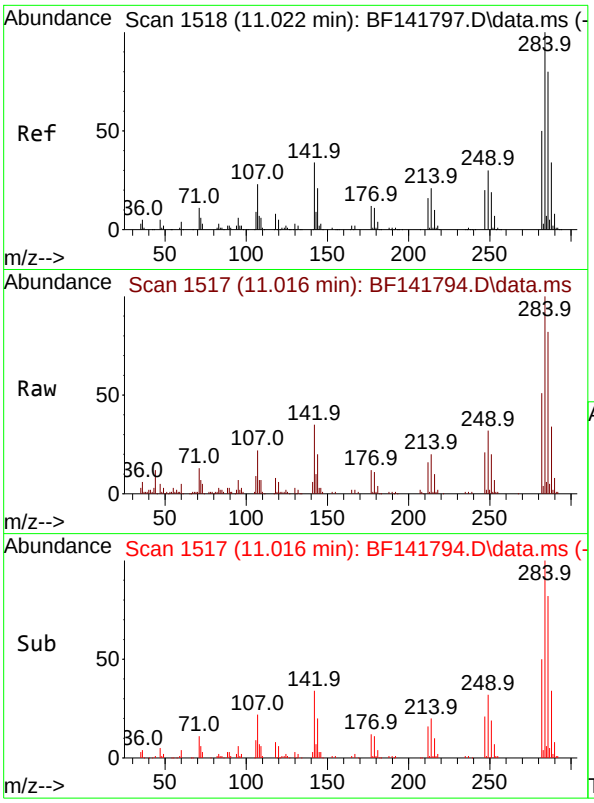


#67
4-Bromophenyl-phenylether
Concen: 5.156 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:248 Resp: 66312

Ion	Ratio	Lower	Upper
248	100		
250	97.0	78.1	117.1
141	79.0	64.3	96.5

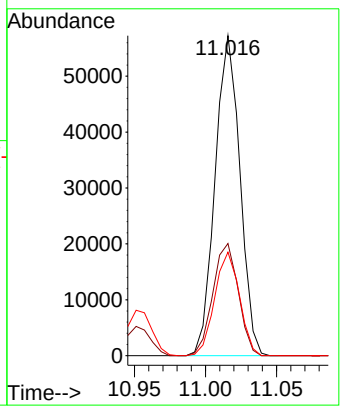




#68
Hexachlorobenzene
Concen: 5.125 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:284 Resp: 6959

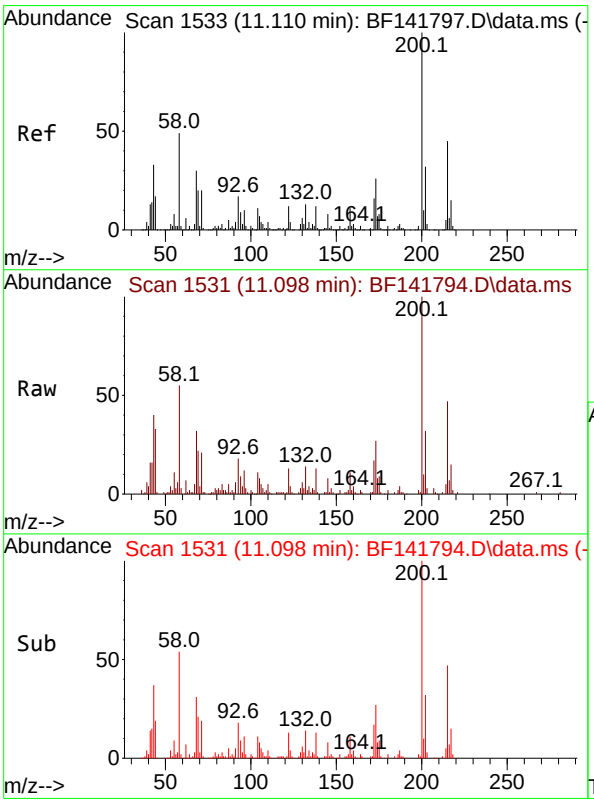
Ion	Ratio	Lower	Upper
284	100		
142	35.1	28.2	42.2
249	32.3	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

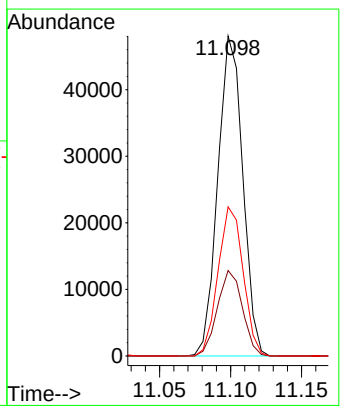
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

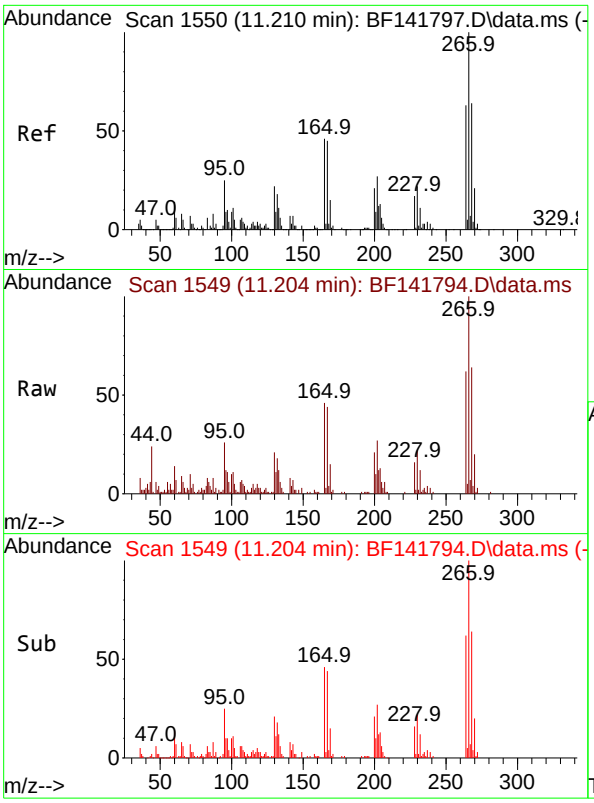


#69
Atrazine
Concen: 5.897 ng
RT: 11.098 min Scan# 1531
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:200 Resp: 58634

Ion	Ratio	Lower	Upper
200	100		
173	26.7	5.6	45.6
215	46.6	25.3	65.3

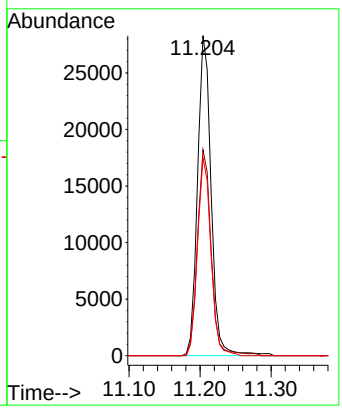




#70
Pentachlorophenol
Concen: 4.373 ng
RT: 11.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:266 Resp: 3766

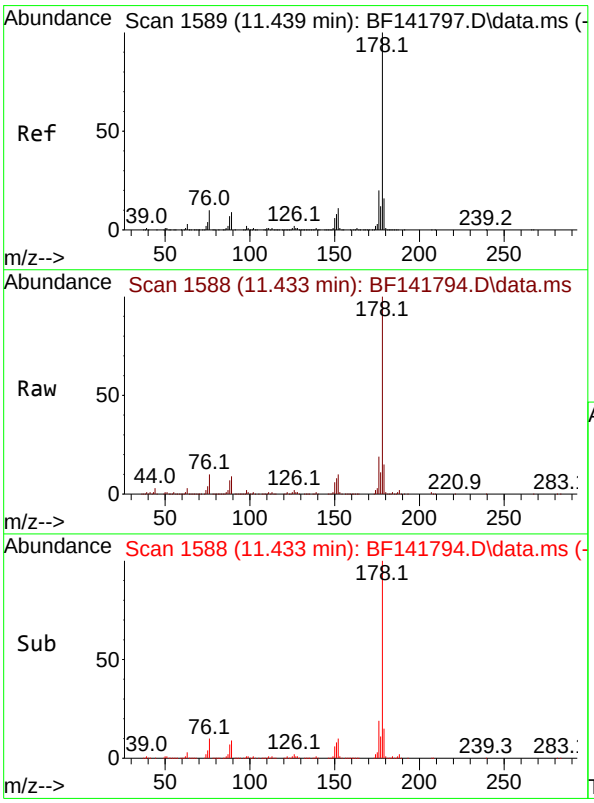
Ion	Ratio	Lower	Upper
266	100		
268	64.3	50.9	76.3
264	61.8	50.2	75.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

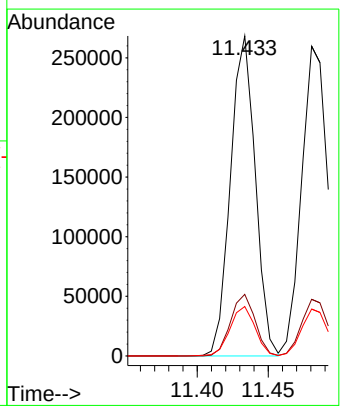
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

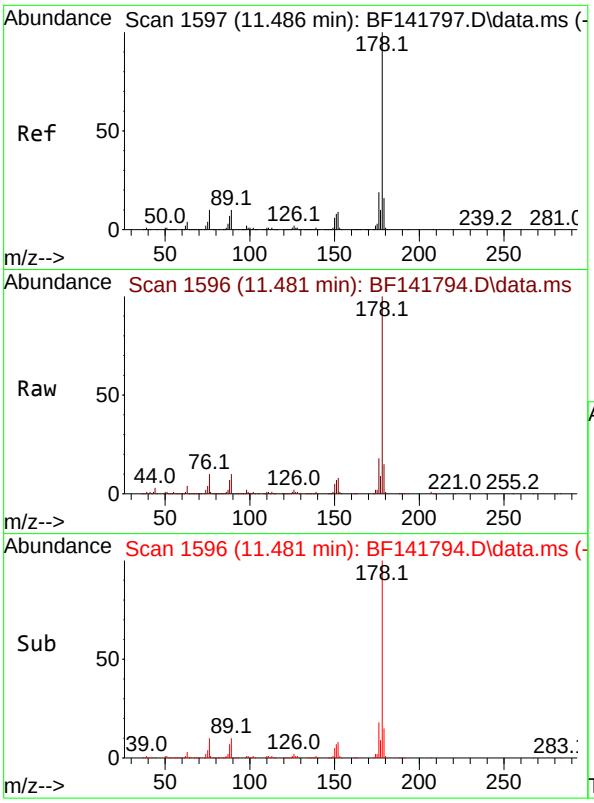


#71
Phenanthrene
Concen: 5.544 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 326529

Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.0	24.0
179	15.5	12.6	19.0

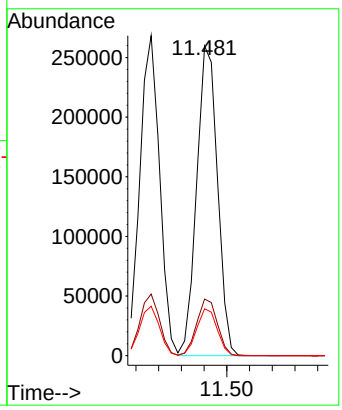




#72
Anthracene
Concen: 5.610 ng
RT: 11.481 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 33114

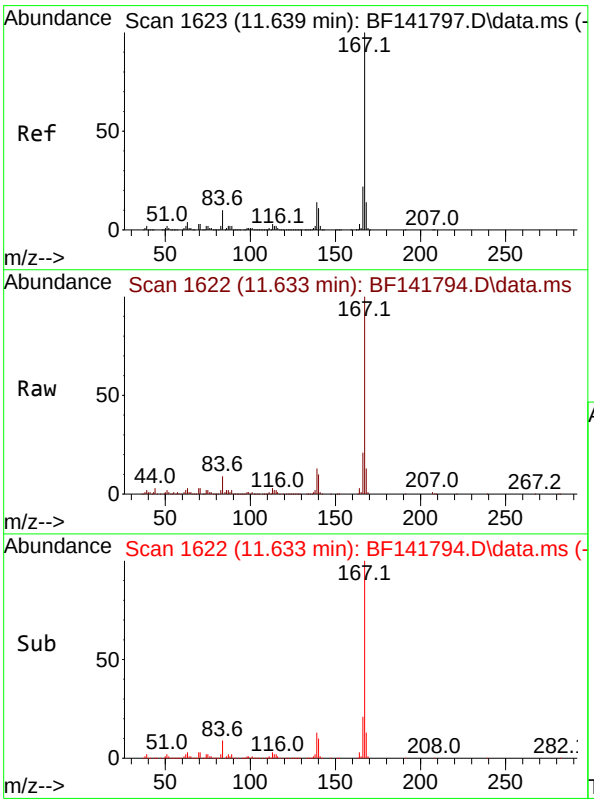
Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	15.2	12.8	19.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

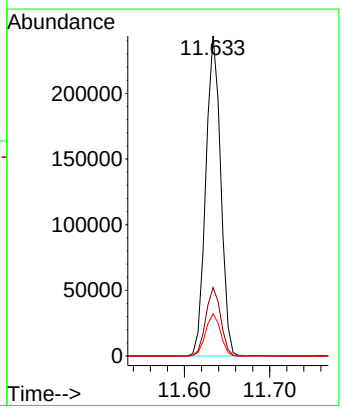
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

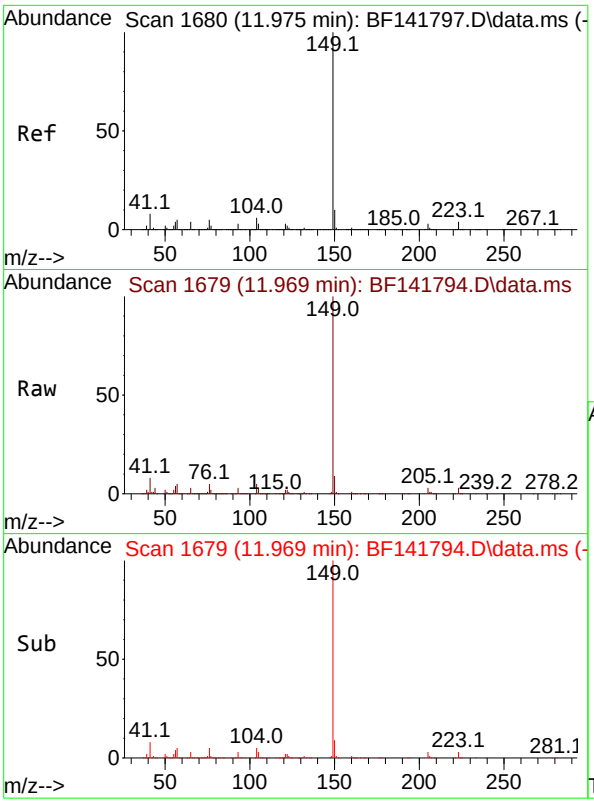


#73
Carbazole
Concen: 5.673 ng
RT: 11.633 min Scan# 1622
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:167 Resp: 295693

Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.2	11.3	16.9

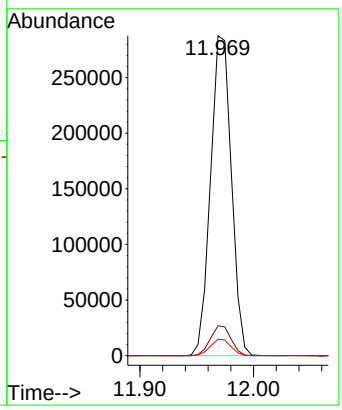




#74
Di-n-butylphthalate
Concen: 5.560 ng
RT: 11.969 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 36734

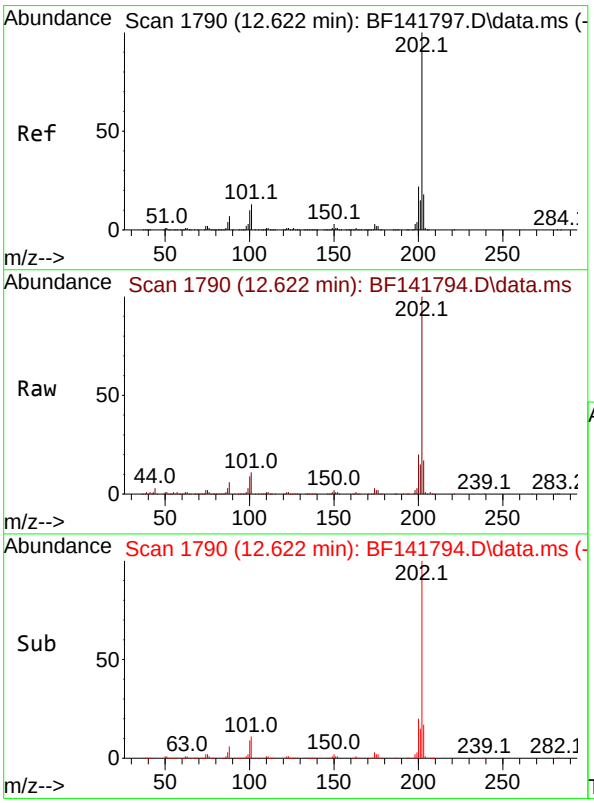
Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.7	11.5
104	5.1	4.4	6.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

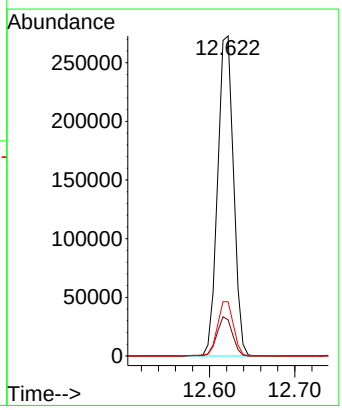
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

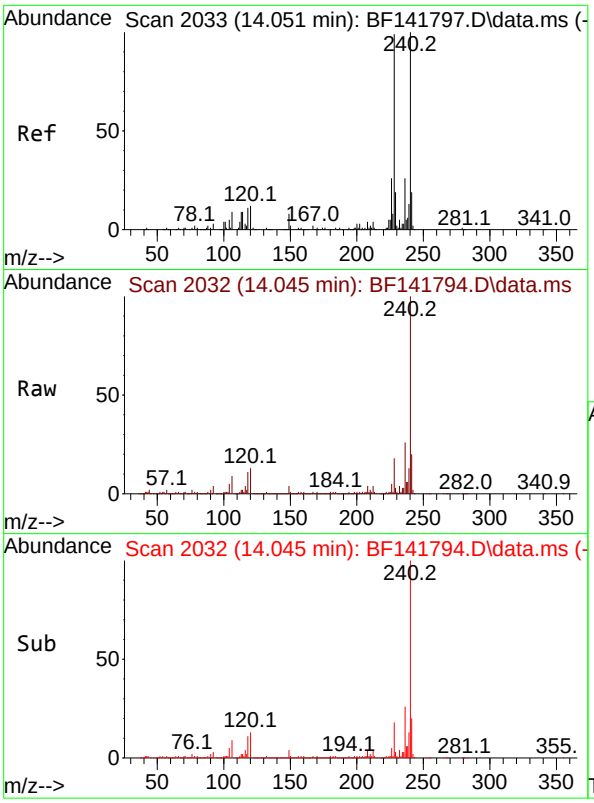


#75
Fluoranthene
Concen: 5.861 ng
RT: 12.622 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:202 Resp: 353684

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.8
203	16.9	0.0	38.0

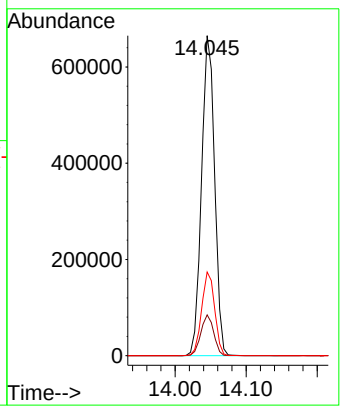




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:240 Resp: 85255

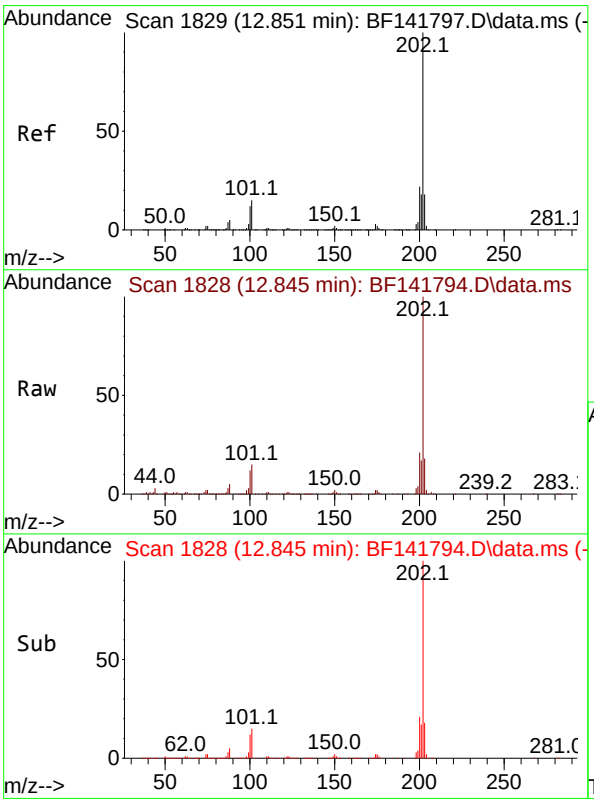
Ion	Ratio	Lower	Upper
240	100		
120	12.8	9.7	14.5
236	26.2	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

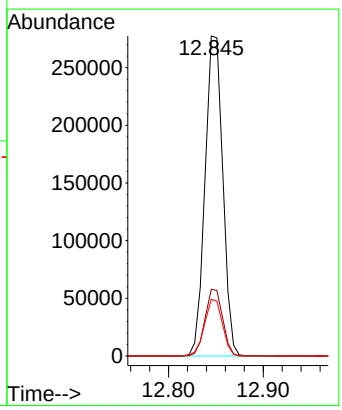
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

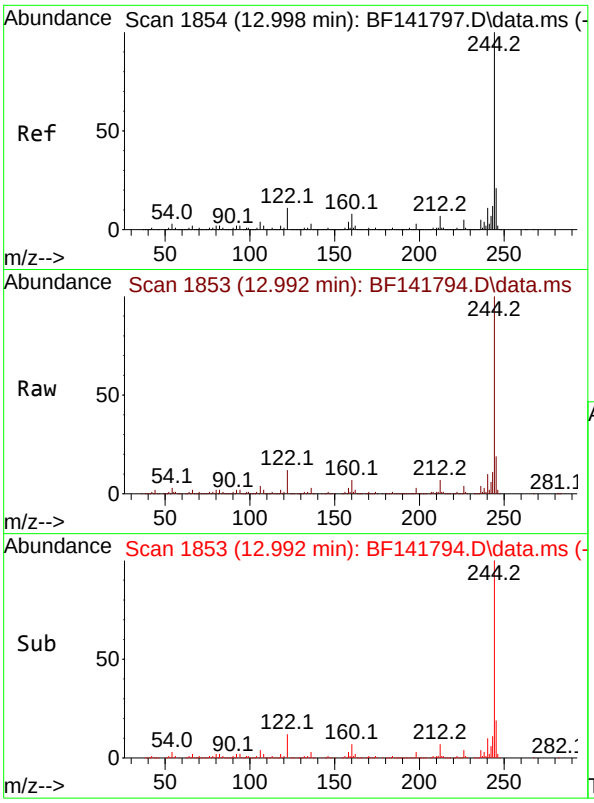


#78
Pyrene
Concen: 4.903 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:202 Resp: 361938

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.4	26.0
203	17.7	14.6	22.0

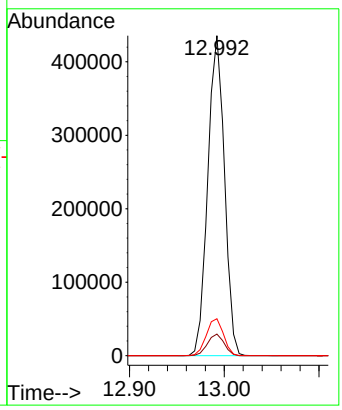




#79
Terphenyl-d14
Concen: 10.112 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:244 Resp: 53285

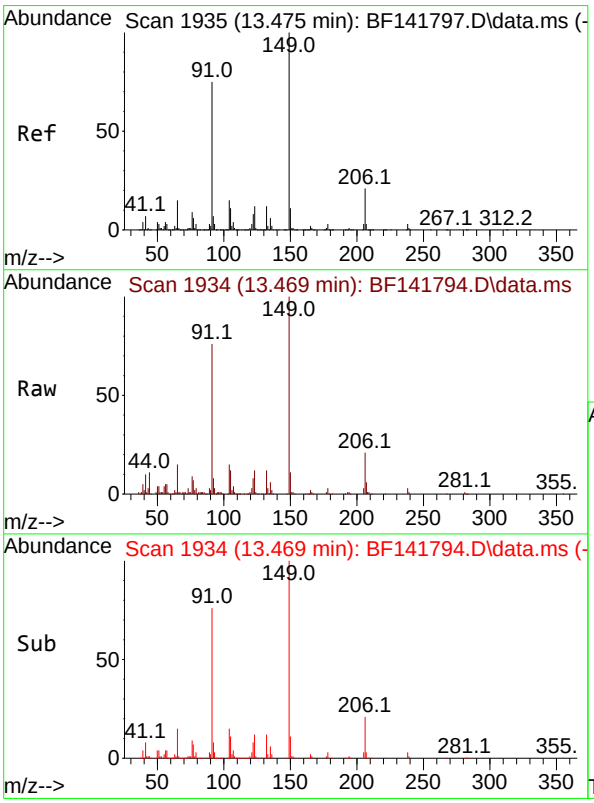
Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	11.5	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

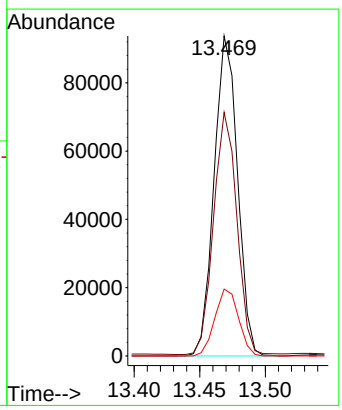
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

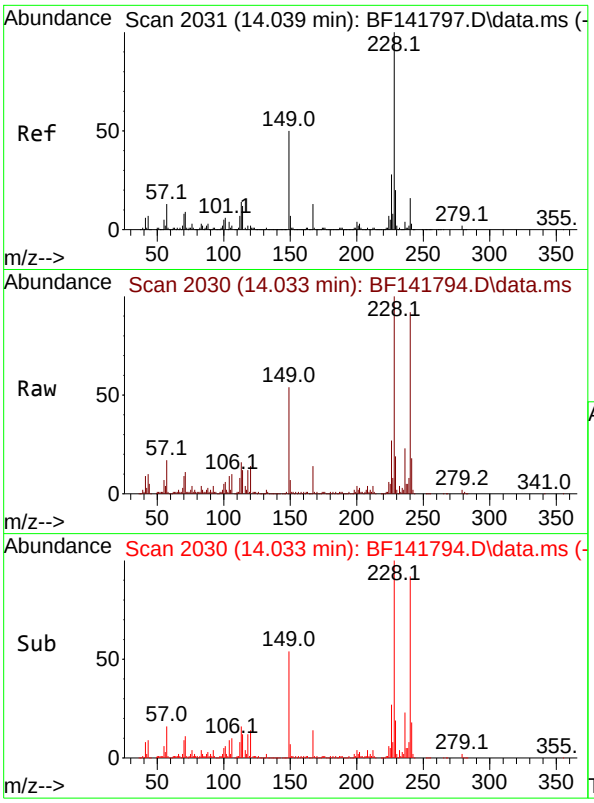


#80
Butylbenzylphthalate
Concen: 4.341 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 116439

Ion	Ratio	Lower	Upper
149	100		
91	76.1	60.1	90.1
206	20.9	16.8	25.2

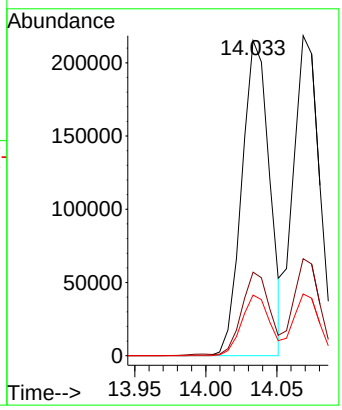




#81
Benzo(a)anthracene
Concen: 5.174 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 29137

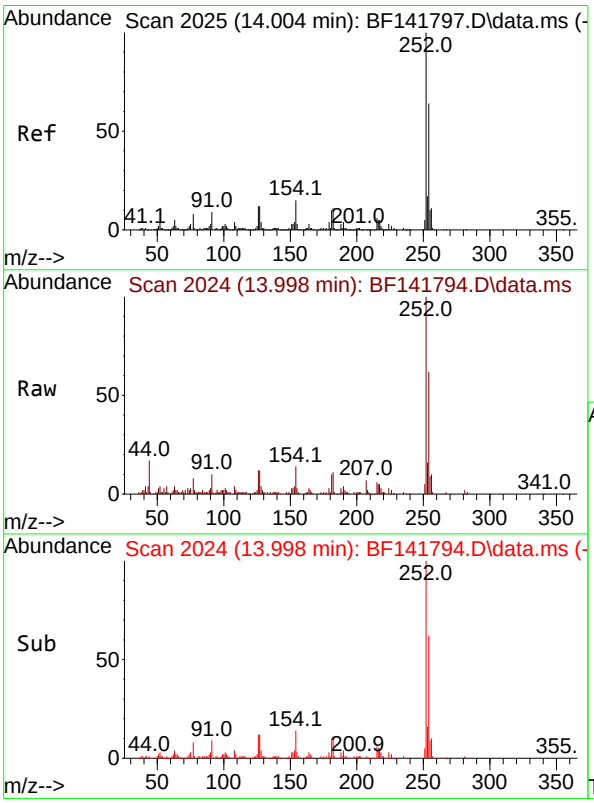
Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.1	33.1
229	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

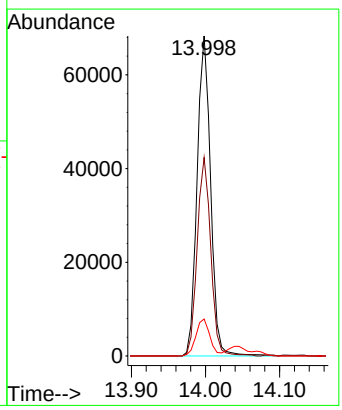
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

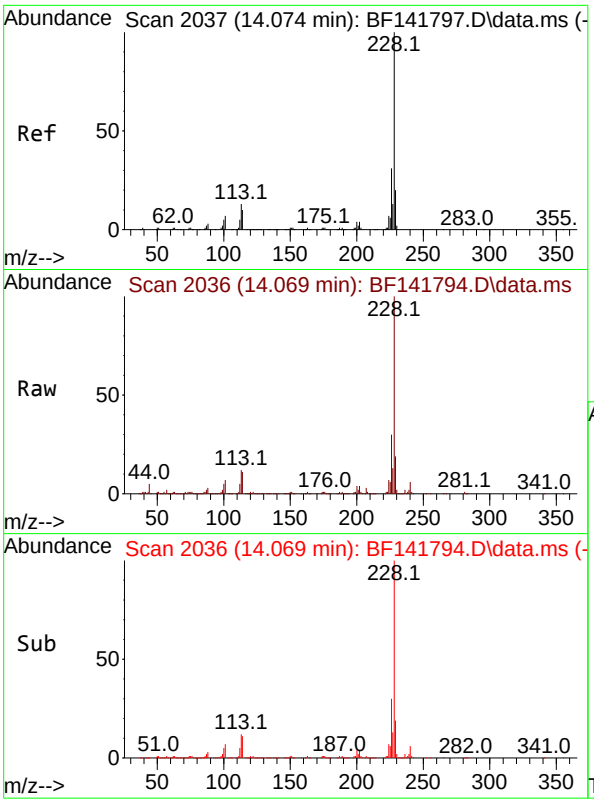


#82
3,3'-Dichlorobenzidine
Concen: 5.353 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 86483

Ion	Ratio	Lower	Upper
252	100		
254	62.0	51.4	77.0
126	11.6	9.8	14.6

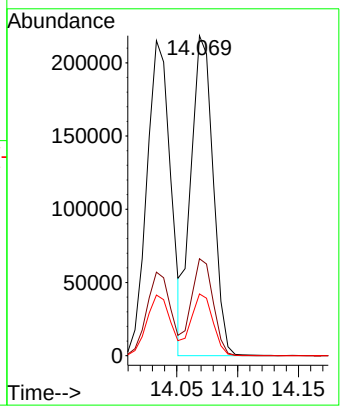




#83
Chrysene
Concen: 5.348 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 27763

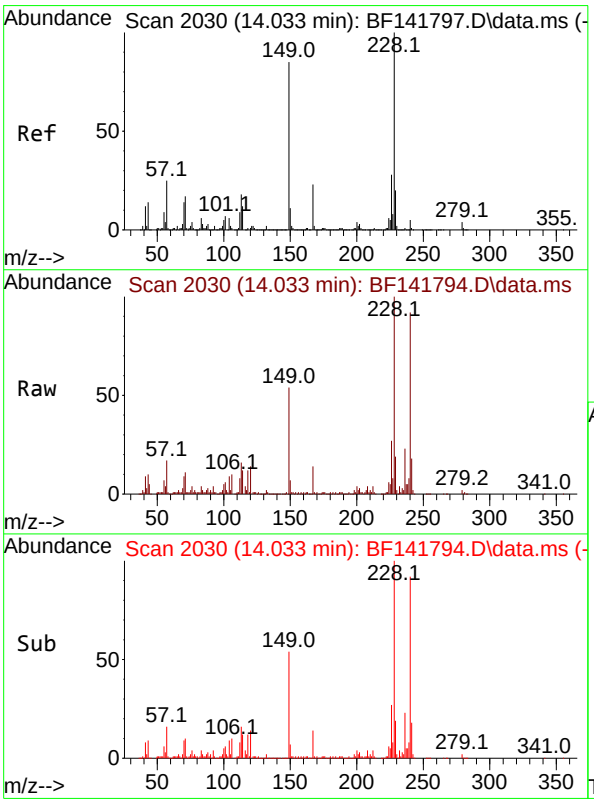
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

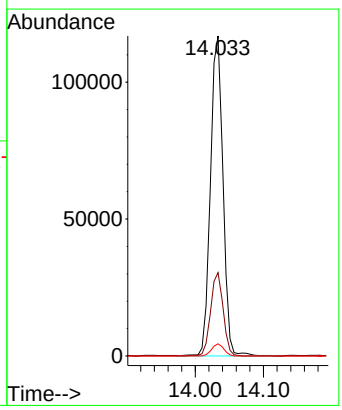
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

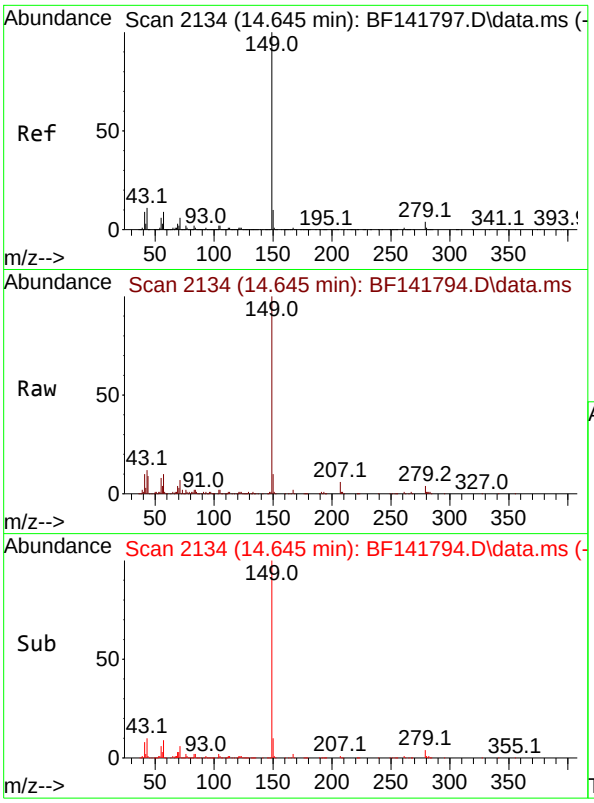


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.482 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 149689

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.2	31.8
279	3.8	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 3.848 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

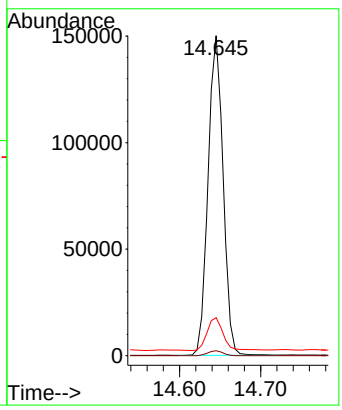
Tgt Ion:149 Resp: 19239

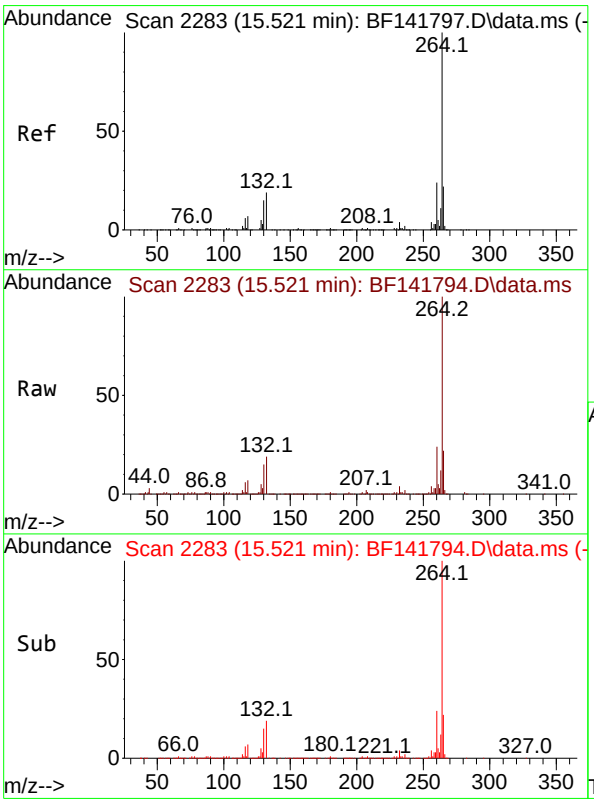
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.2	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

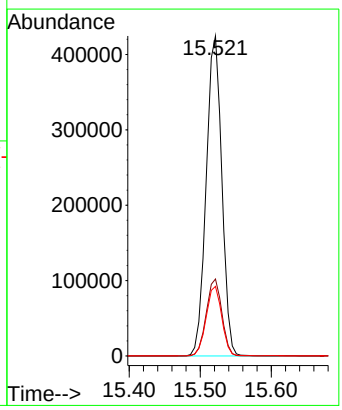


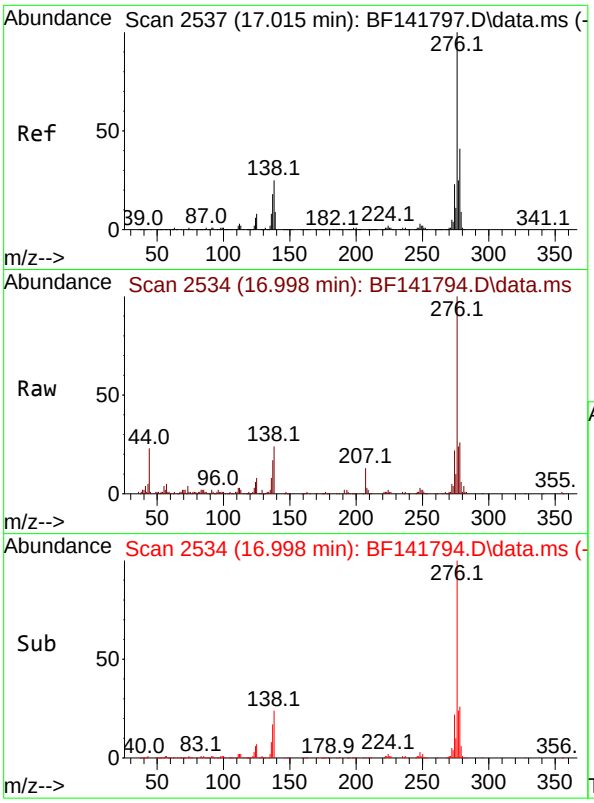


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:264 Resp: 648925

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.9	28.3
265	21.8	17.4	26.0

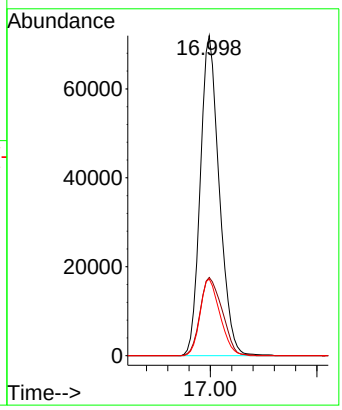




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.309 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 17803

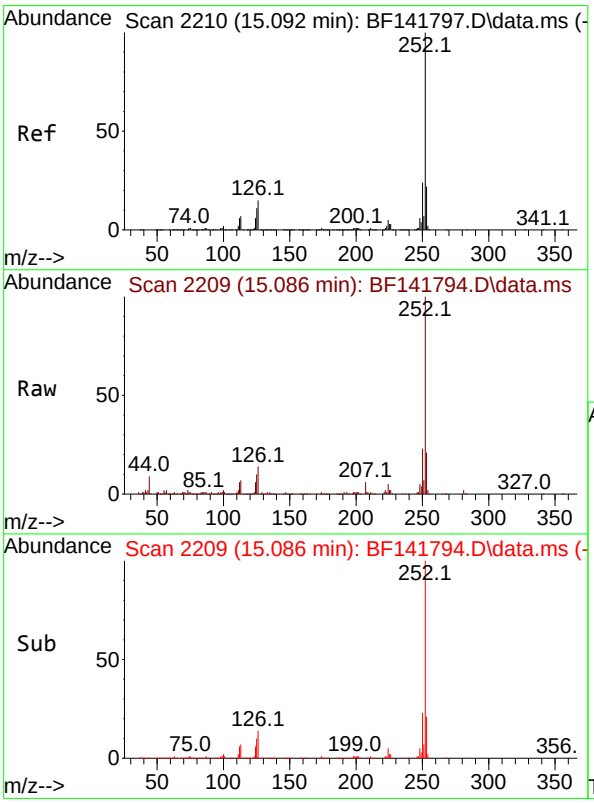
Ion	Ratio	Lower	Upper
276	100		
138	28.4	22.5	33.7
277	25.0	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

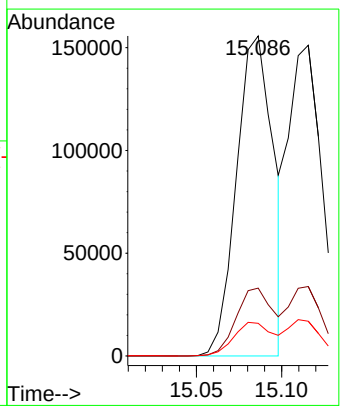
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

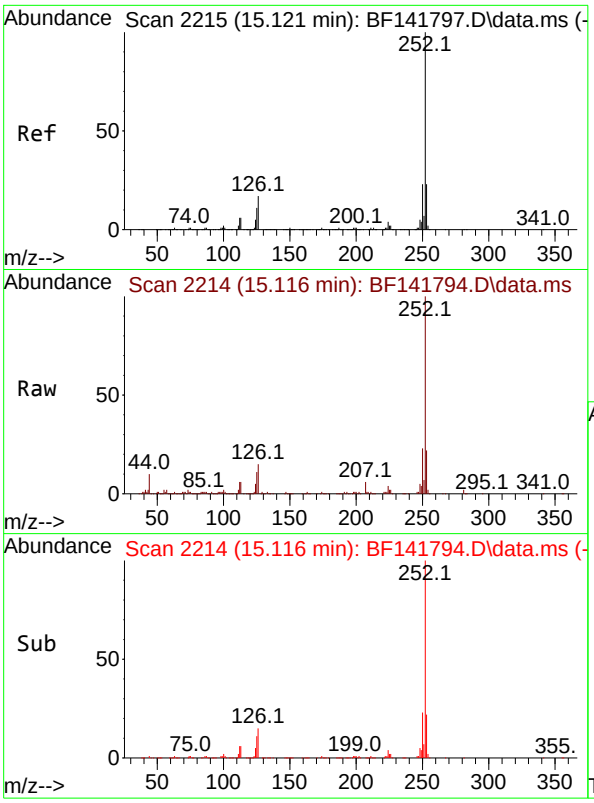


#88
Benzo(b)fluoranthene
Concen: 5.294 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 233991

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.7	26.5
125	10.2	8.6	13.0

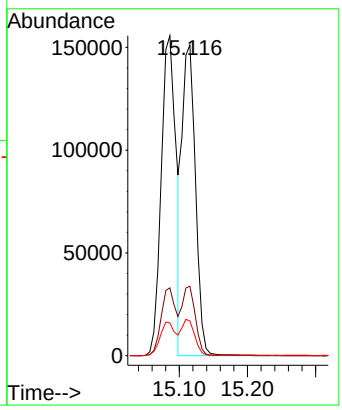




#89
Benzo(k)fluoranthene
Concen: 5.499 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 20661

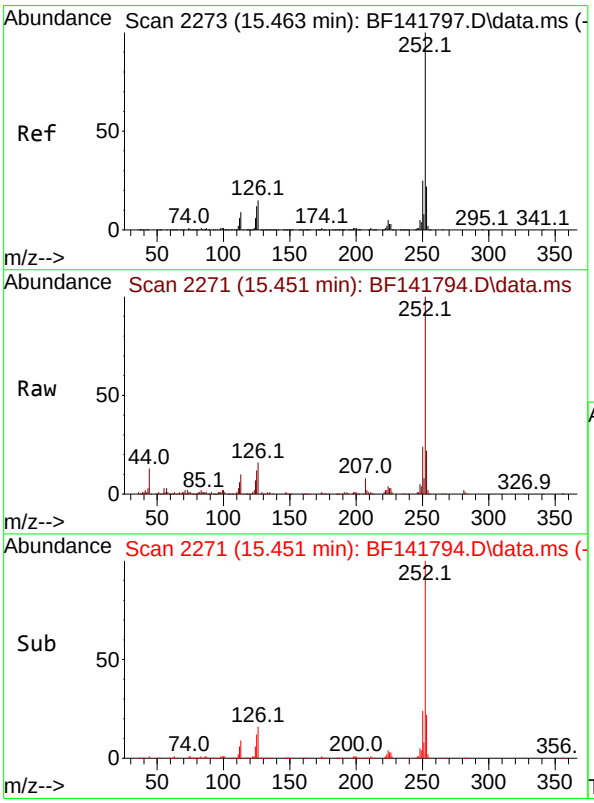
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

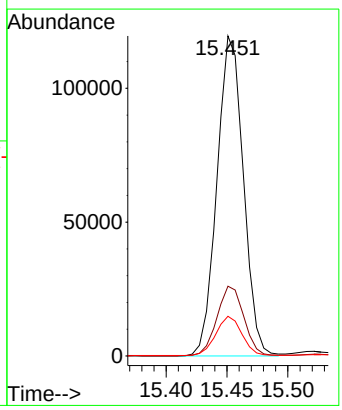
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

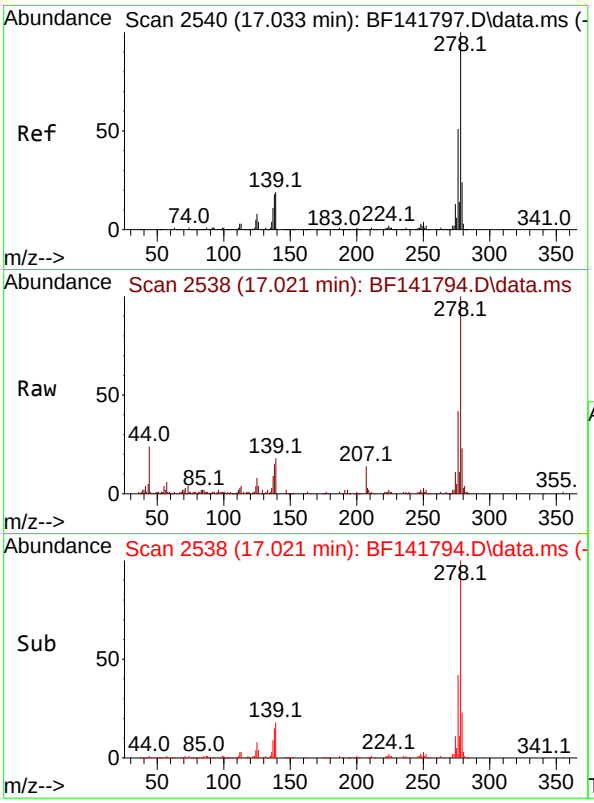


#90
Benzo(a)pyrene
Concen: 5.091 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 180486

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	12.4	9.4	14.2

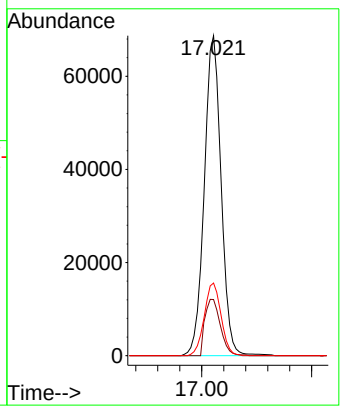




#91
Dibenzo(a,h)anthracene
Concen: 4.337 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:278 Resp: 14627

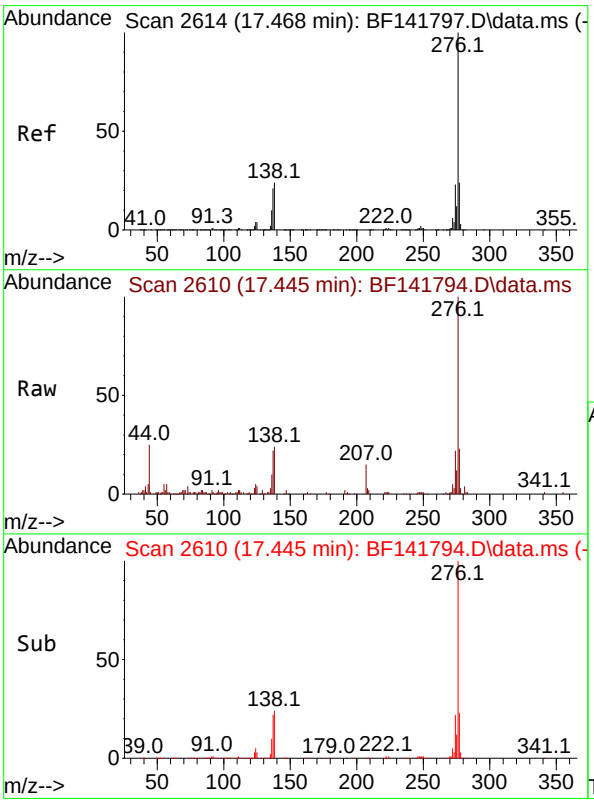
Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.9	22.3
279	22.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

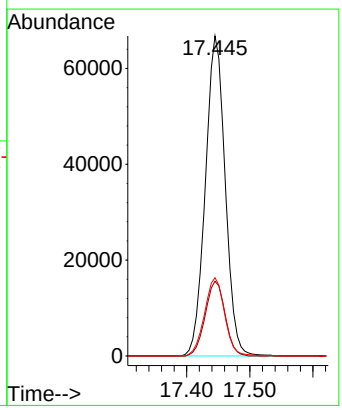
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 4.218 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 145755

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	24.4	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	289266	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	1173835	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	647904	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1098842	20.000	ng		0.00
76) Chrysene-d12	14.045	240	800194	20.000	ng		0.00
86) Perylene-d12	15.521	264	586419	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	380350	20.998	ng		0.00
7) Phenol-d6	6.498	99	493731	20.942	ng		-0.01
23) Nitrobenzene-d5	7.445	82	318362	17.336	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	116043	19.078	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	898797	22.244	ng		0.00
79) Terphenyl-d14	12.992	244	986786	19.952	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.687	88	80189	9.757	ng		99
3) Pyridine	3.451	79	204276	9.989	ng		99
4) n-Nitrosodimethylamine	3.381	42	96264	9.784	ng	#	97
6) Aniline	6.545	93	249709	10.243	ng		99
8) 2-Chlorophenol	6.669	128	203282	10.375	ng		97
9) Benzaldehyde	6.434	77	157352	11.474	ng		99
10) Phenol	6.510	94	263599m	10.494	ng		
11) bis(2-Chloroethyl)ether	6.616	93	198994	10.362	ng		100
12) 1,3-Dichlorobenzene	6.828	146	219862	10.478	ng		98
13) 1,4-Dichlorobenzene	6.904	146	221703	10.486	ng		100
14) 1,2-Dichlorobenzene	7.057	146	208788	10.575	ng		99
15) Benzyl Alcohol	7.016	79	195649	10.384	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.163	45	302932	10.387	ng		99
17) 2-Methylphenol	7.122	107	163693	10.121	ng		98
18) Hexachloroethane	7.404	117	78340	9.899	ng		97
19) n-Nitroso-di-n-propyla...	7.287	70	159860	10.315	ng		97
20) 3+4-Methylphenols	7.275	107	218359	10.842	ng	#	90
22) Acetophenone	7.292	105	303217	10.606	ng	#	95
24) Nitrobenzene	7.463	77	178109	9.057	ng		97
25) Isophorone	7.698	82	400228	10.145	ng		99
26) 2-Nitrophenol	7.781	139	52703	9.980	ng		99
27) 2,4-Dimethylphenol	7.810	122	146519	10.103	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	262861	10.445	ng		98
29) 2,4-Dichlorophenol	8.016	162	169218	10.114	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	188296	10.271	ng		98
31) Naphthalene	8.192	128	643621	10.668	ng		98
32) Benzoic acid	7.875	122	58209	11.729	ng		98
33) 4-Chloroaniline	8.234	127	230342	10.413	ng		99
34) Hexachlorobutadiene	8.310	225	113140	9.931	ng		99
35) Caprolactam	8.569	113	50734	9.855	ng		100
36) 4-Chloro-3-methylphenol	8.698	107	185621	9.987	ng		99
37) 2-Methylnaphthalene	8.881	142	425720	10.758	ng		100
38) 1-Methylnaphthalene	8.981	142	404087	10.642	ng		98
40) 1,2,4,5-Tetrachloroben...	9.045	216	194342	10.386	ng		99
41) Hexachlorocyclopentadiene	9.033	237	74446	9.533	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	119234	9.864	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	118017	9.860	ng		99
46) 1,1'-Biphenyl	9.345	154	537368	10.896	ng		98
47) 2-Chloronaphthalene	9.369	162	383444	10.535	ng		98
48) 2-Nitroaniline	9.457	65	60658	9.877	ng		96
49) Acenaphthylene	9.786	152	586066	10.739	ng		99
50) Dimethylphthalate	9.639	163	455190	10.491	ng		99
51) 2,6-Dinitrotoluene	9.698	165	59617	9.588	ng		98
52) Acenaphthene	9.957	154	389154	10.568	ng		99
53) 3-Nitroaniline	9.863	138	62569	9.606	ng	#	91
54) 2,4-Dinitrophenol	9.969	184	15803	10.881	ng	#	1
55) Dibenzofuran	10.128	168	581120	10.843	ng		97
56) 4-Nitrophenol	10.004	139	51406	8.022	ng		94
57) 2,4-Dinitrotoluene	10.098	165	64291	9.401	ng		97
58) Fluorene	10.469	166	442697	11.027	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	101729	9.772	ng		99
60) Diethylphthalate	10.339	149	457600	10.520	ng		98
61) 4-Chlorophenyl-phenyle...	10.463	204	215289	10.703	ng		98
62) 4-Nitroaniline	10.475	138	60552	8.172	ng		94
63) Azobenzene	10.622	77	486878	10.631	ng		98
65) 4,6-Dinitro-2-methylph...	10.504	198	23863	11.957	ng		98
66) n-Nitrosodiphenylamine	10.580	169	374119	10.369	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	130467	10.165	ng		99
68) Hexachlorobenzene	11.016	284	136626	10.081	ng		97
69) Atrazine	11.104	200	114276	11.517	ng		99
70) Pentachlorophenol	11.204	266	80231	9.334	ng		99
71) Phenanthrene	11.433	178	632699	10.764	ng		99
72) Anthracene	11.486	178	635314	10.785	ng		99
73) Carbazole	11.633	167	554900	10.667	ng		99
74) Di-n-butylphthalate	11.969	149	709254	10.756	ng		99
75) Fluoranthene	12.621	202	668370	11.098	ng		98
77) Benzidine	12.739	184	136857	13.588	ng		99
78) Pyrene	12.851	202	674877	9.740	ng		99
80) Butylbenzylphthalate	13.469	149	231474	9.194	ng		98
81) Benzo(a)anthracene	14.033	228	554778	10.496	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	152147	10.033	ng		99
83) Chrysene	14.074	228	473612	9.721	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	278482	8.884	ng		99
85) Di-n-octyl phthalate	14.645	149	368711	7.857	ng		100
87) Indeno(1,2,3-cd)pyrene	16.998	276	330014	8.838	ng		99
88) Benzo(b)fluoranthene	15.086	252	409420	10.250	ng		99
89) Benzo(k)fluoranthene	15.115	252	363518	10.707	ng		99
90) Benzo(a)pyrene	15.451	252	317564	9.913	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	272918	8.954	ng		98
92) Benzo(g,h,i)perylene	17.445	276	272428	8.724	ng		98

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

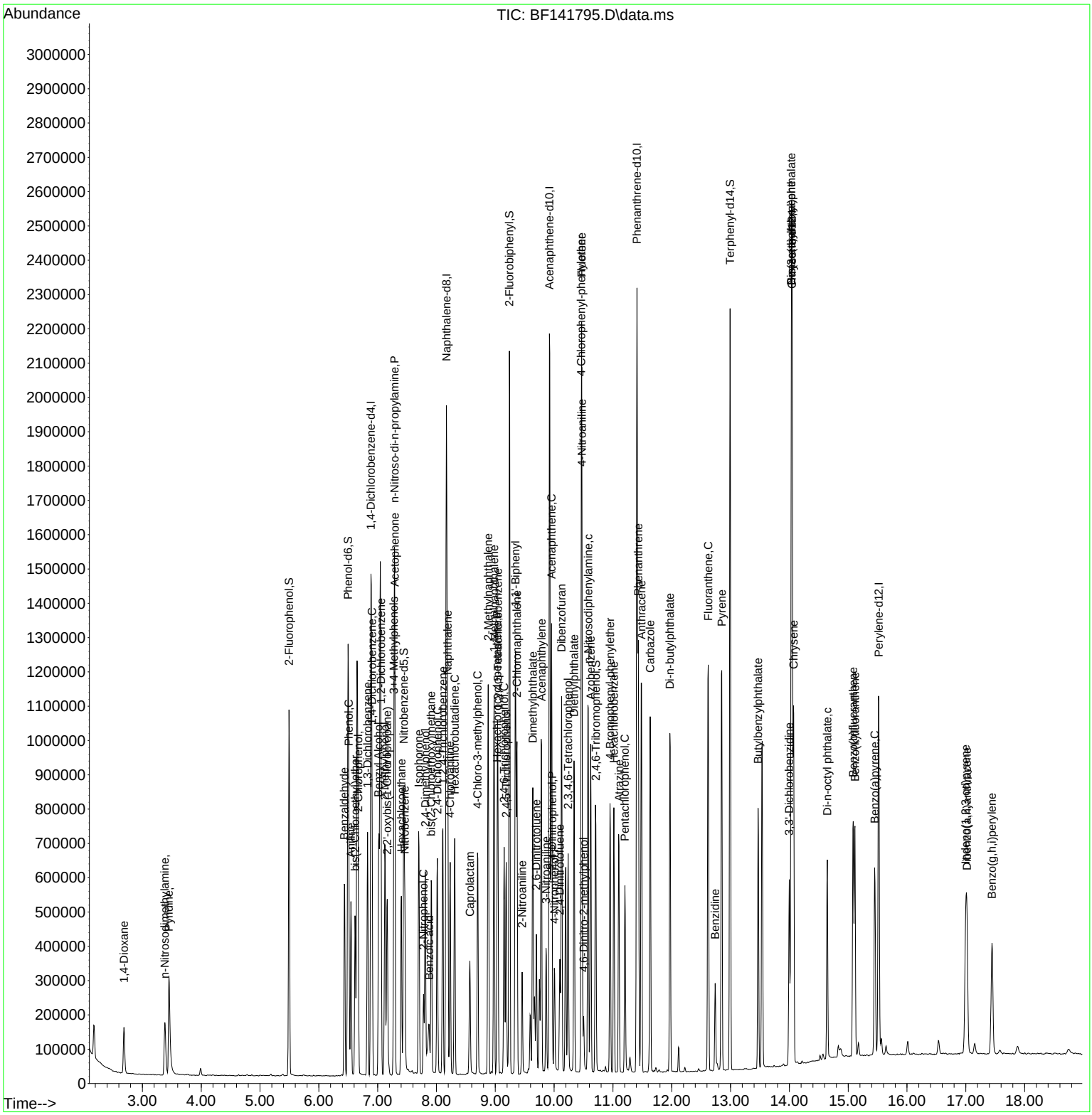
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

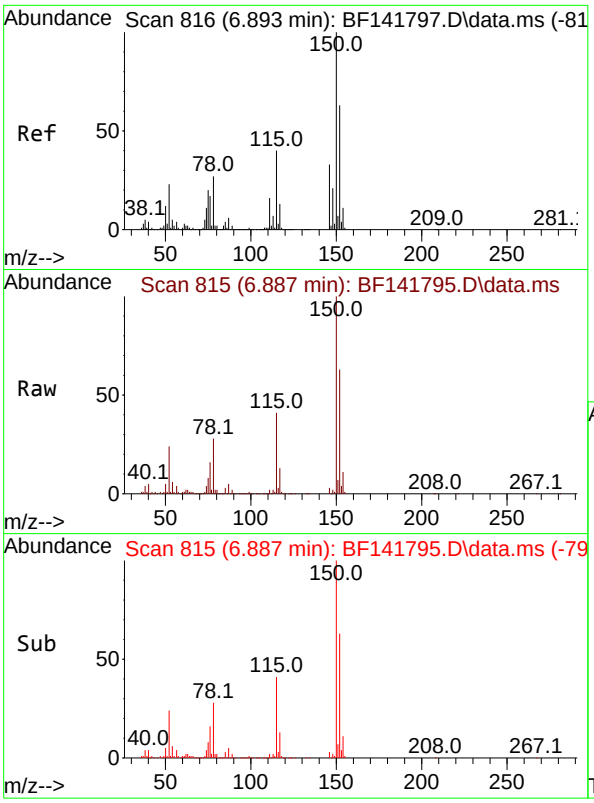
Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

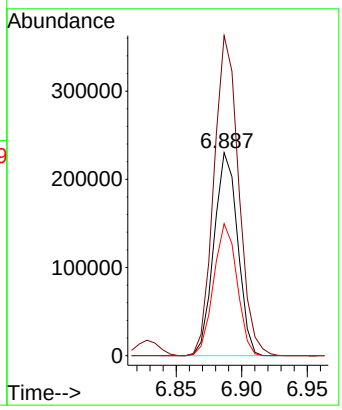




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 28926

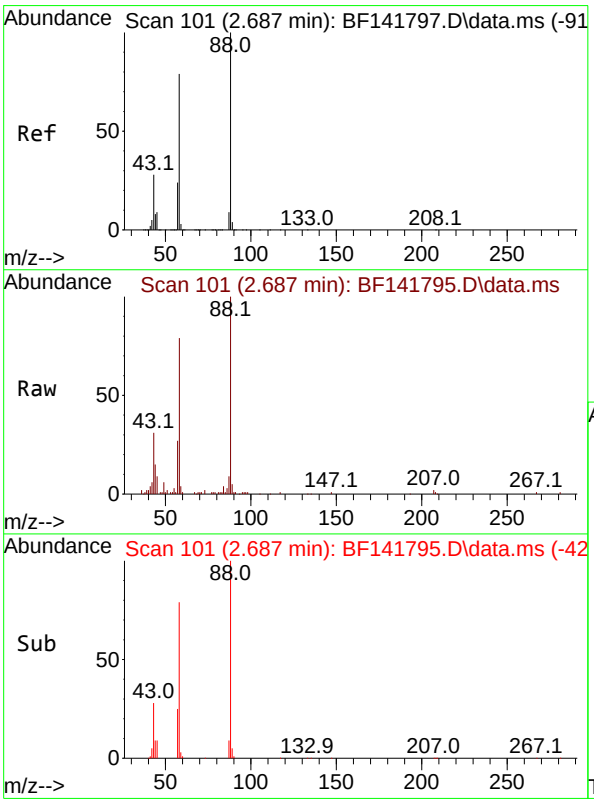
Ion	Ratio	Lower	Upper
152	100		
150	157.6	127.5	191.3
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

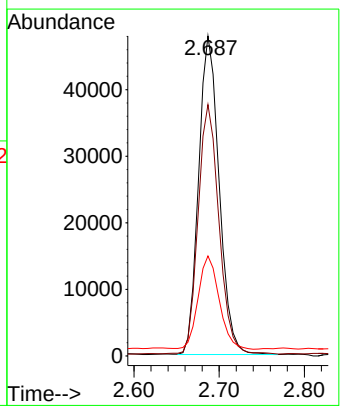
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

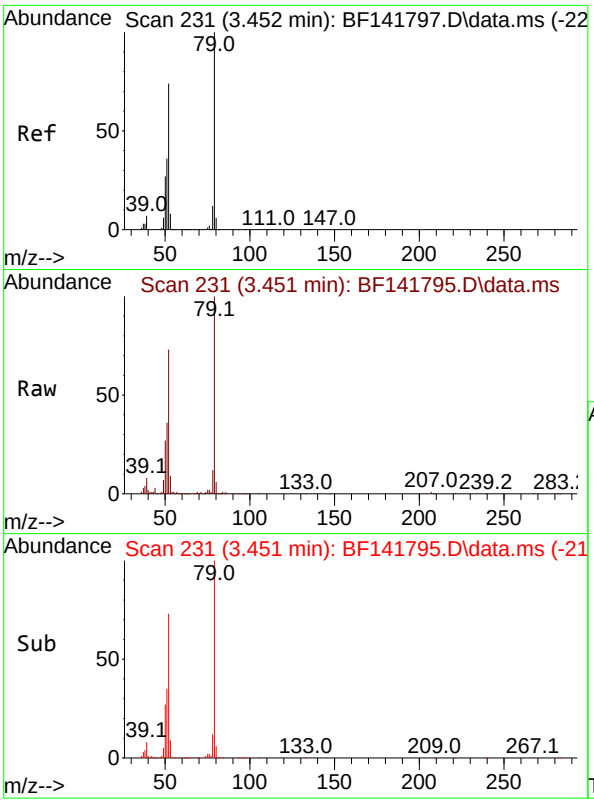


#2
1,4-Dioxane
Concen: 9.757 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 88 Resp: 80189

Ion	Ratio	Lower	Upper
88	100		
58	79.3	63.9	95.9
43	30.0	23.0	34.6





#3
Pyridine
Concen: 9.989 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

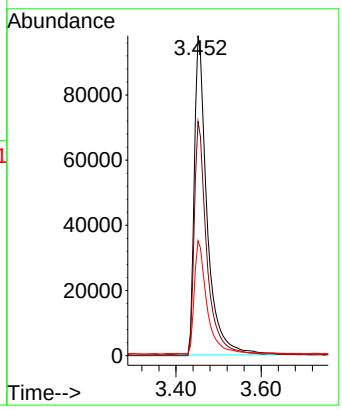
Tgt Ion: 79 Resp: 20427

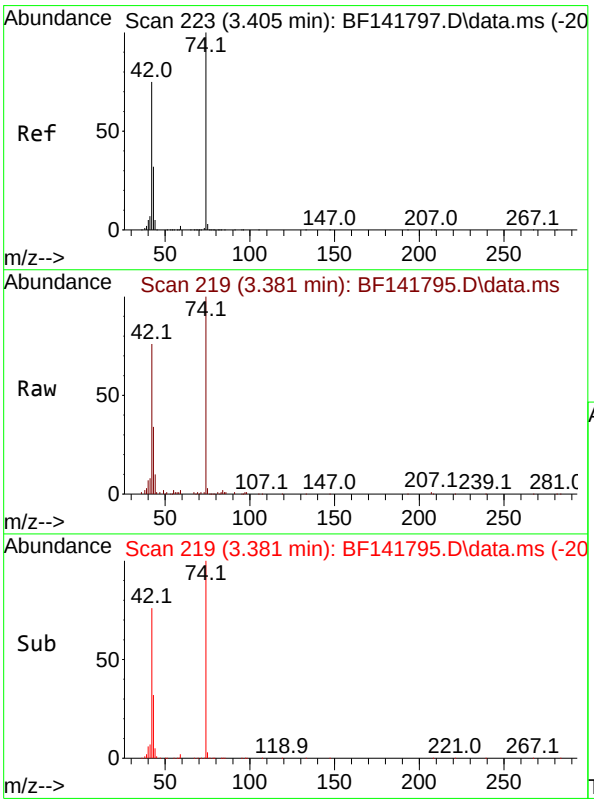
Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.9	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

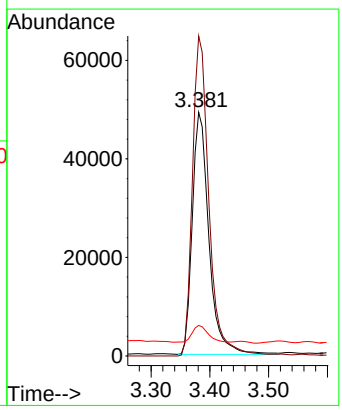


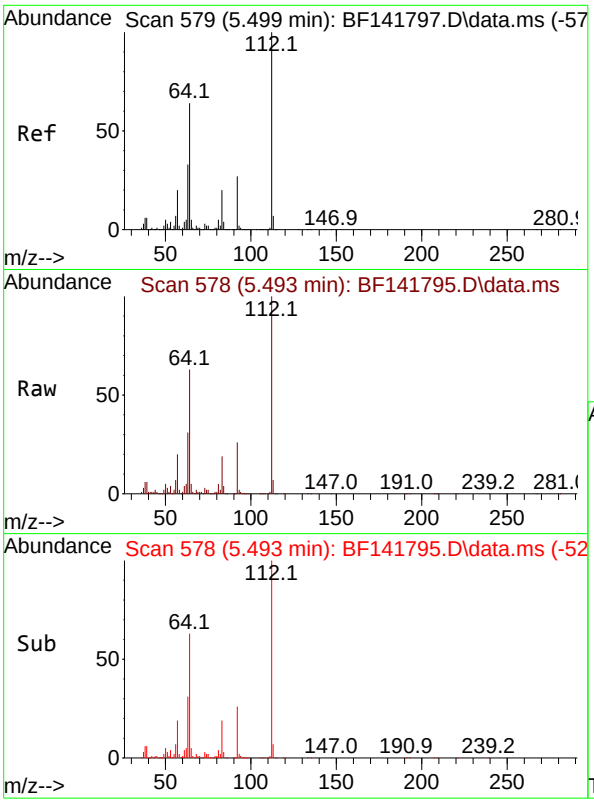


#4
n-Nitrosodimethylamine
Concen: 9.784 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 42 Resp: 96264

Ion	Ratio	Lower	Upper
42	100		
74	131.3	107.1	160.7
44	12.5	6.6	9.8#

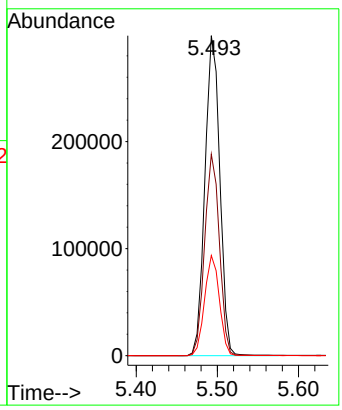




#5
2-Fluorophenol
Concen: 20.998 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:112 Resp: 38035

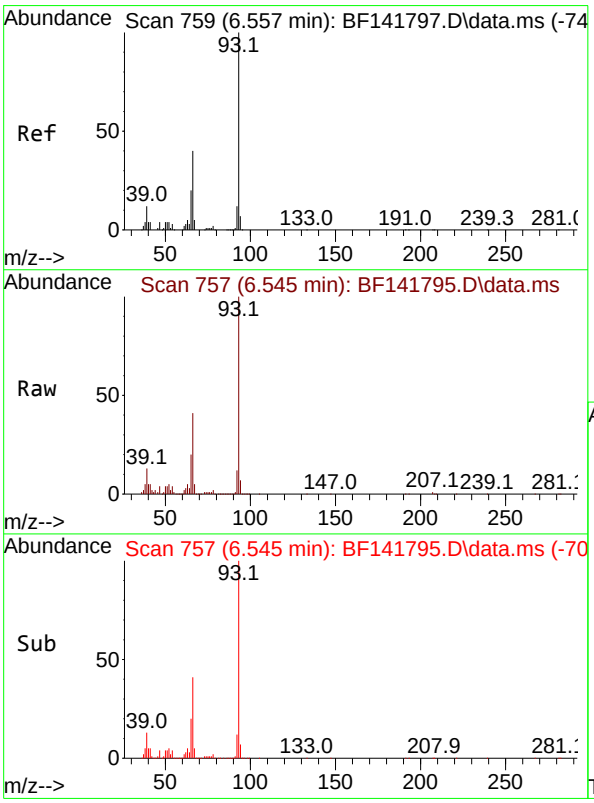
Ion	Ratio	Lower	Upper
112	100		
64	63.0	51.3	76.9
63	31.3	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

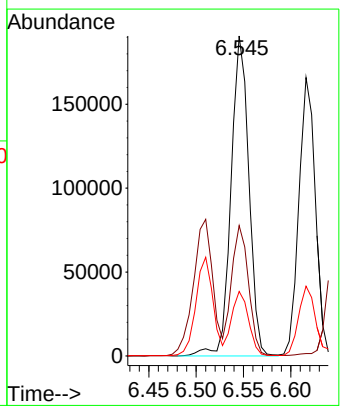
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

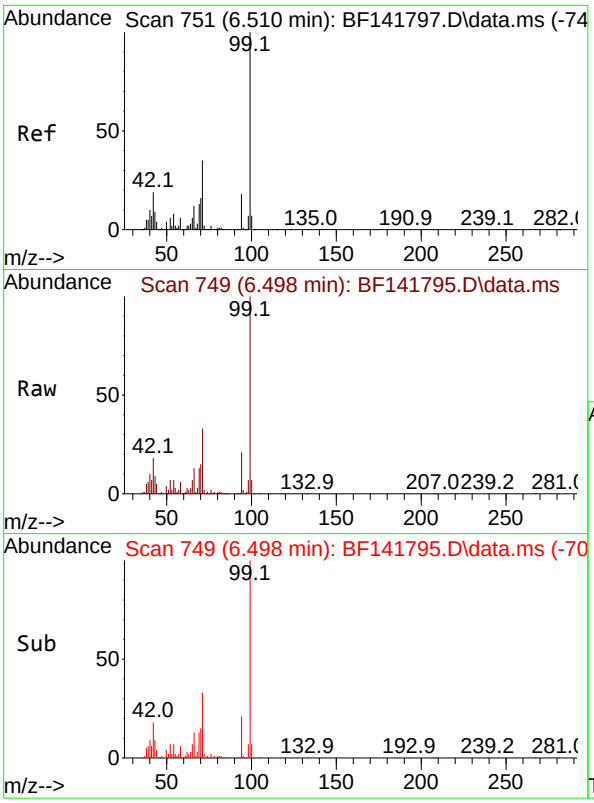


#6
Aniline
Concen: 10.243 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 249709

Ion	Ratio	Lower	Upper
93	100		
66	40.8	32.3	48.5
65	20.2	15.9	23.9

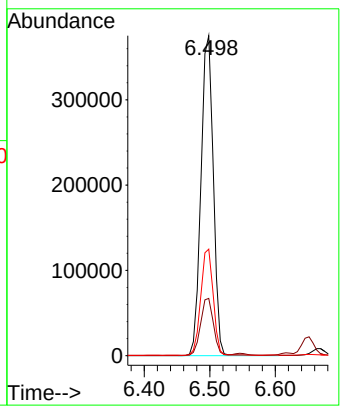




#7
Phenol-d6
Concen: 20.942 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 99 Resp: 49373

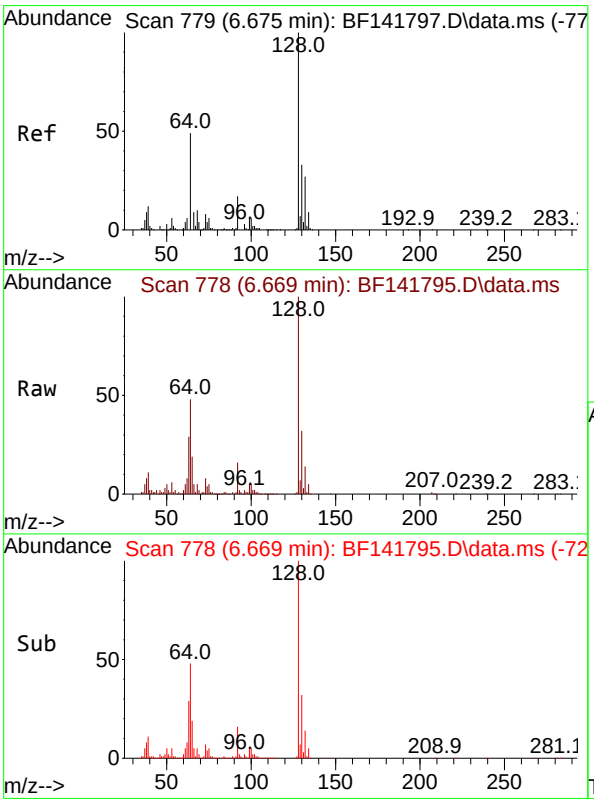
Ion	Ratio	Lower	Upper
99	100		
42	17.9	15.2	22.8
71	33.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

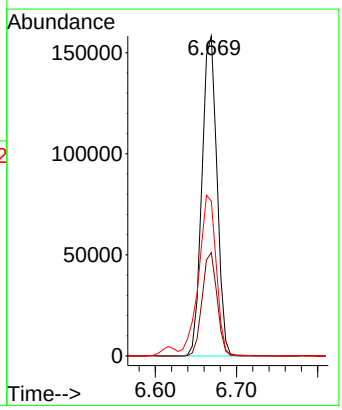
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

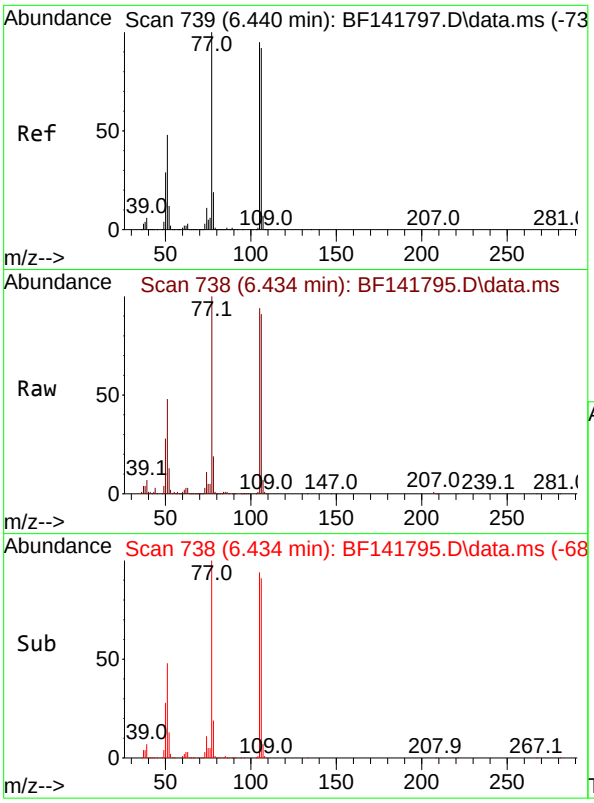


#8
2-Chlorophenol
Concen: 10.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 203282

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.6	52.6
64	48.4	31.1	71.1

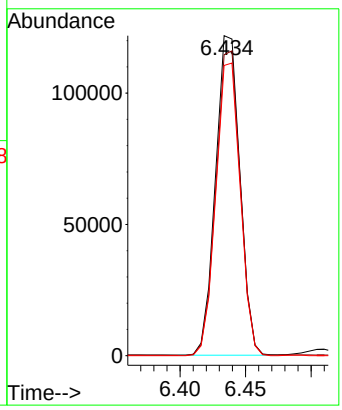




#9
Benzaldehyde
Concen: 11.474 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 15735

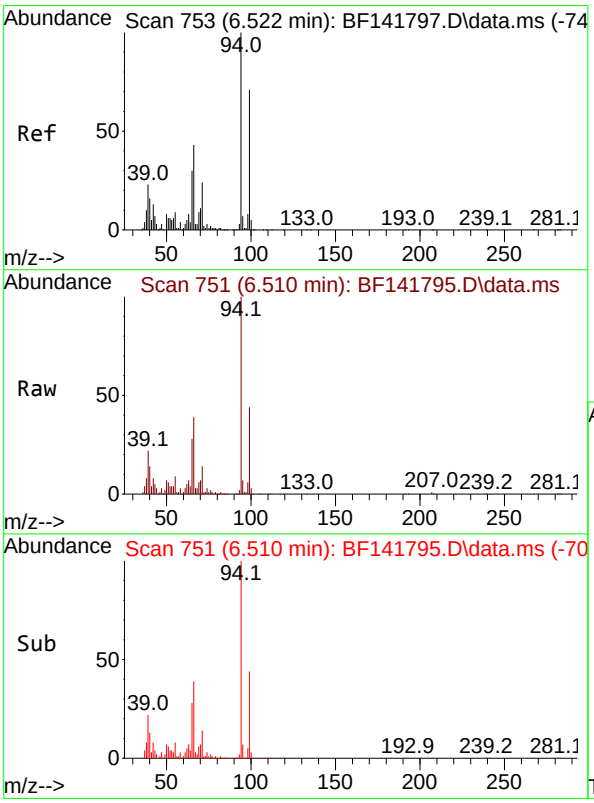
Ion	Ratio	Lower	Upper
77	100		
105	94.0	75.3	115.3
106	90.7	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

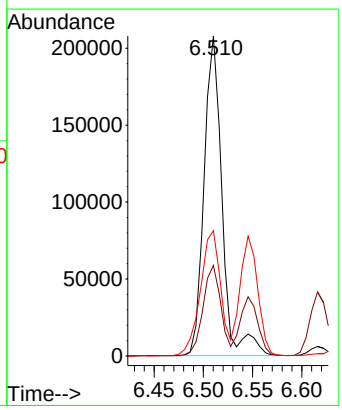
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

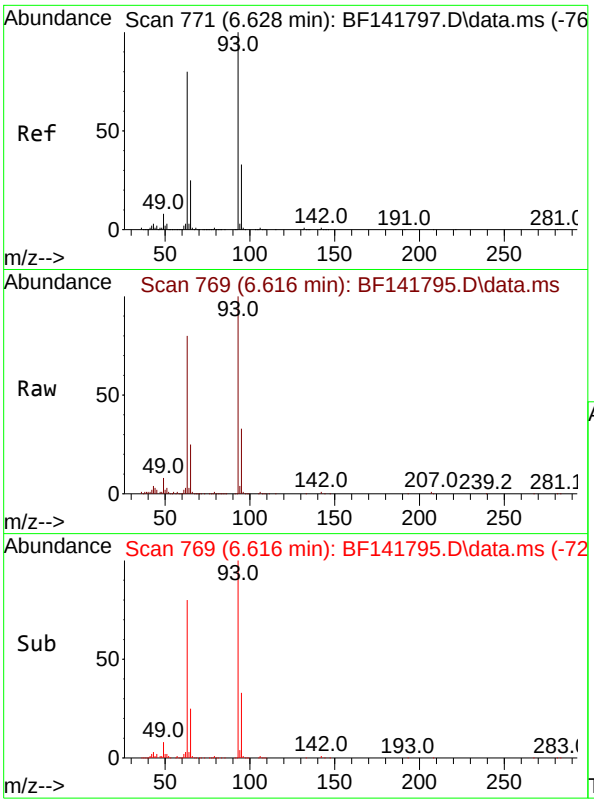


#10
Phenol
Concen: 10.494 ng m
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 94 Resp: 263599

Ion	Ratio	Lower	Upper
94	100		
65	28.3	10.2	50.2
66	39.2	23.2	63.2

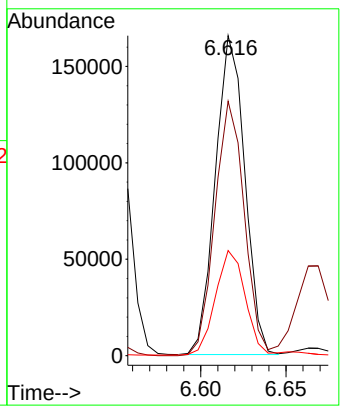




#11
bis(2-Chloroethyl)ether
Concen: 10.362 ng
RT: 6.616 min Scan# 7(
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 19899(

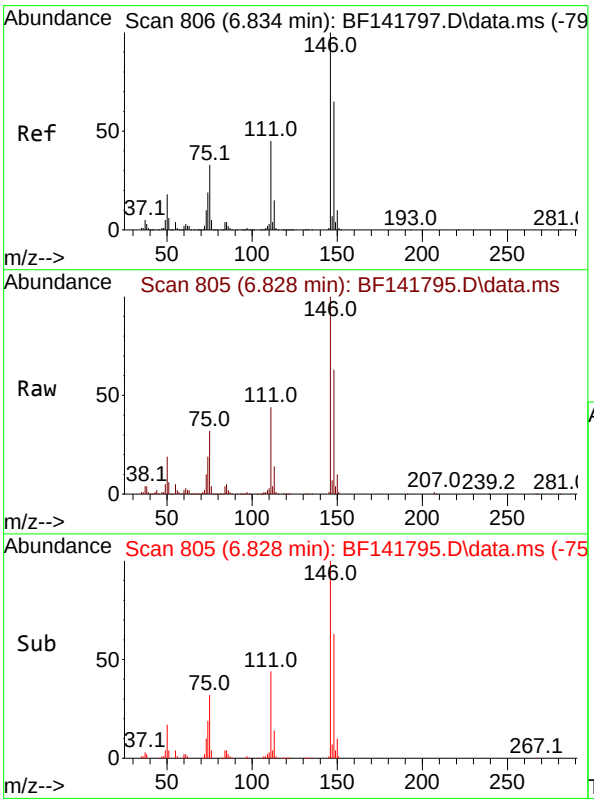
Ion	Ratio	Lower	Upper
93	100		
63	79.5	59.3	99.3
95	32.8	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

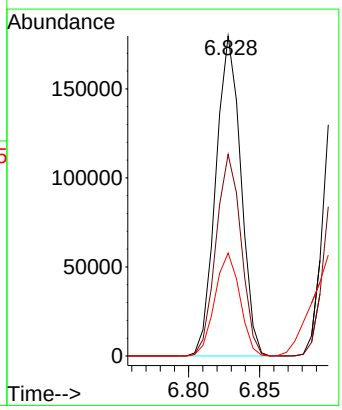
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

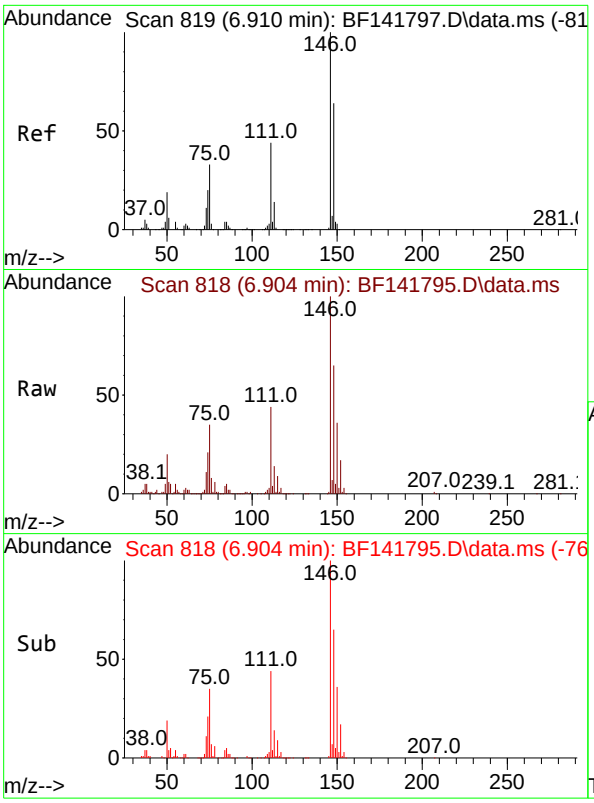


#12
1,3-Dichlorobenzene
Concen: 10.478 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 219862

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.8	77.6
75	32.2	26.2	39.4

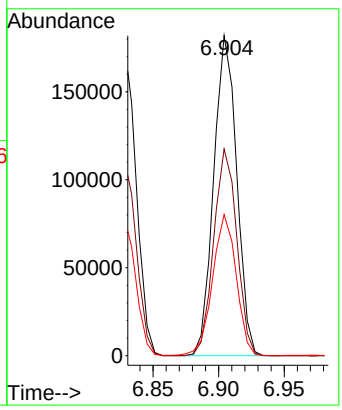




#13
1,4-Dichlorobenzene
Concen: 10.486 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 22170

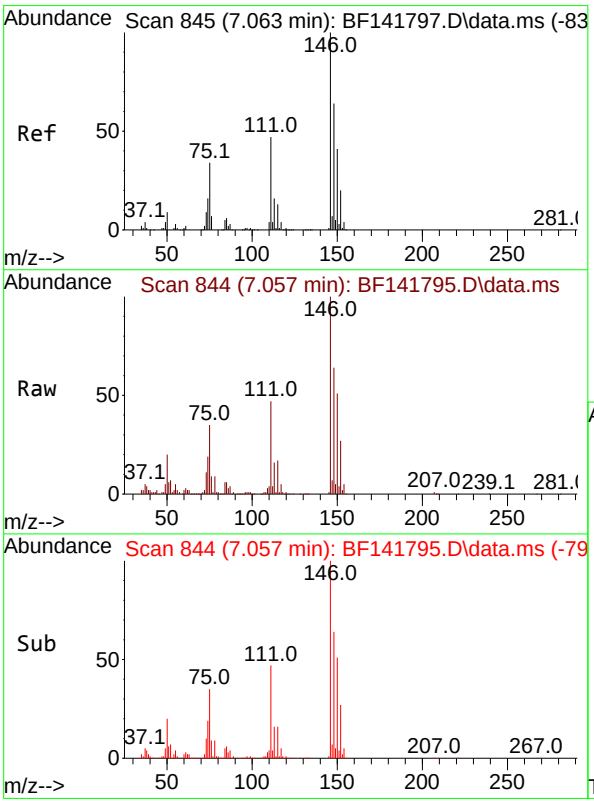
Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.2
111	44.1	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

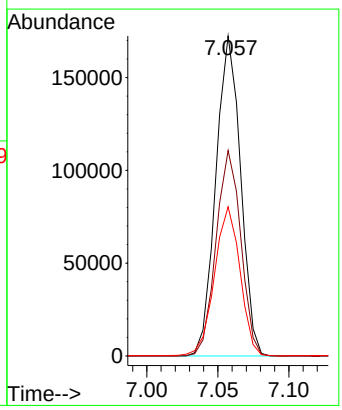
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

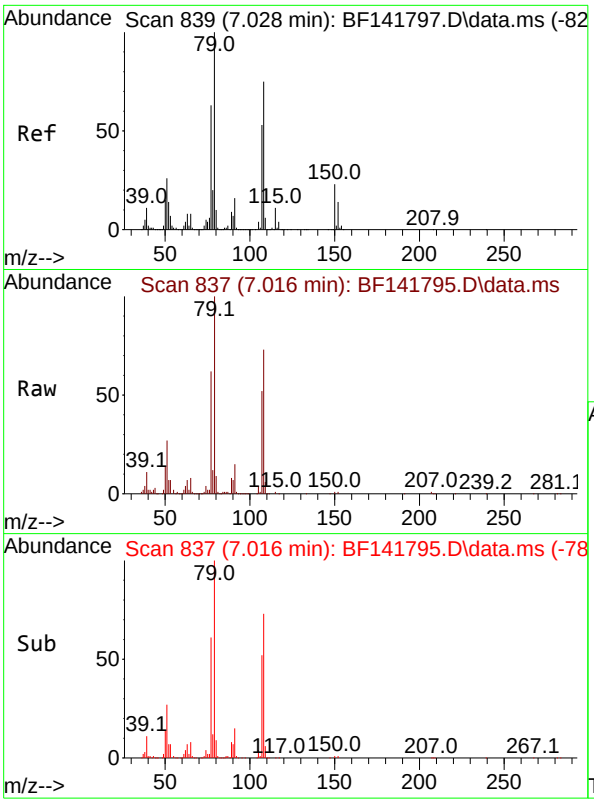


#14
1,2-Dichlorobenzene
Concen: 10.575 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 208788

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
111	46.6	37.8	56.6





#15
Benzyl Alcohol
Concen: 10.384 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

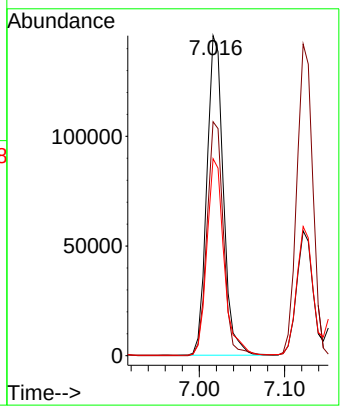
Tgt Ion: 79 Resp: 19564

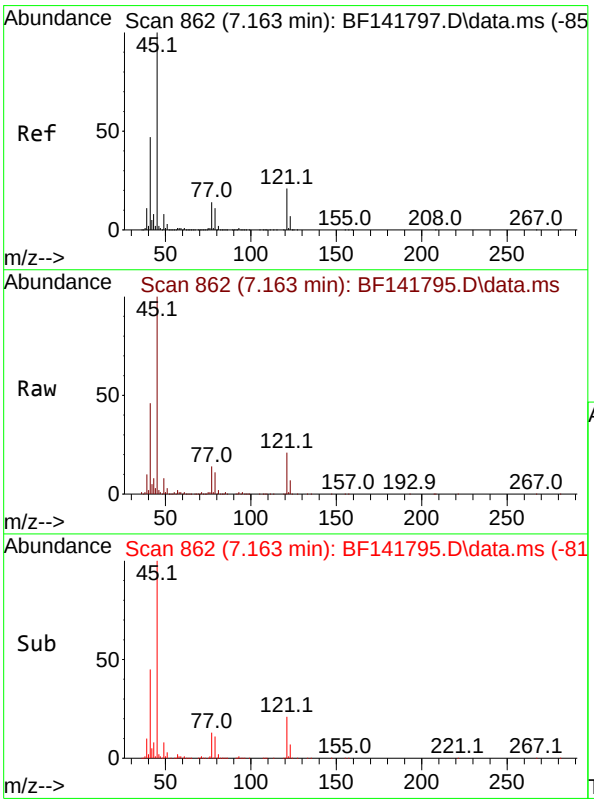
Ion	Ratio	Lower	Upper
79	100		
108	73.1	60.2	90.2
77	61.6	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

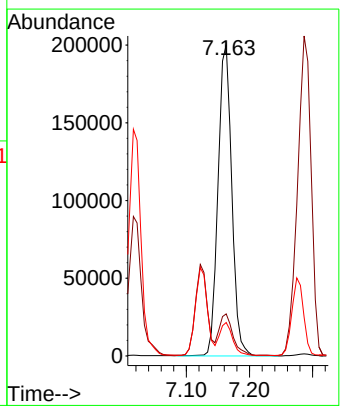


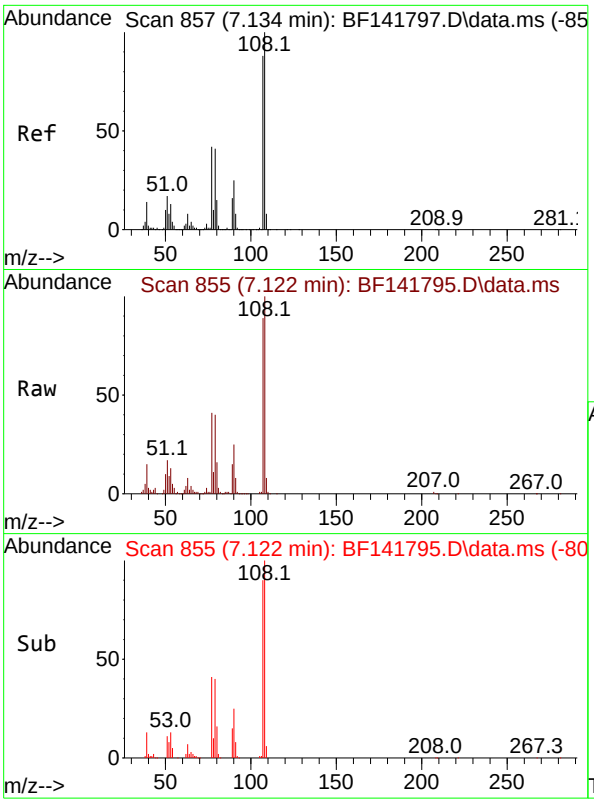


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.387 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 45 Resp: 302932

Ion	Ratio	Lower	Upper
45	100		
77	13.6	0.0	34.4
79	10.7	0.0	30.9

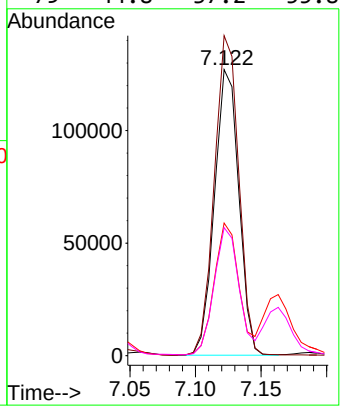




#17
2-Methylphenol
Concen: 10.121 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 16369

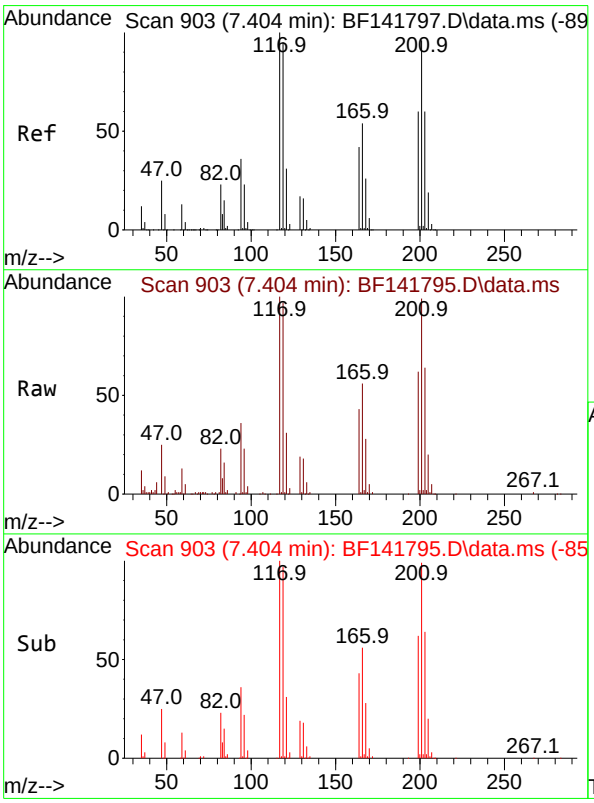
Ion	Ratio	Lower	Upper
107	100		
108	111.8	90.6	135.8
77	46.3	37.7	56.5
79	44.8	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

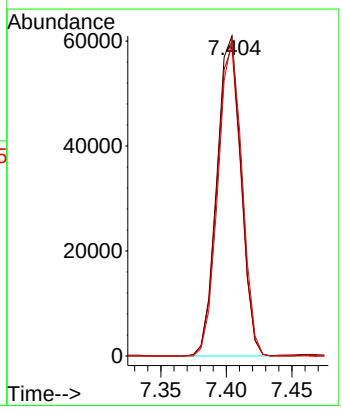
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

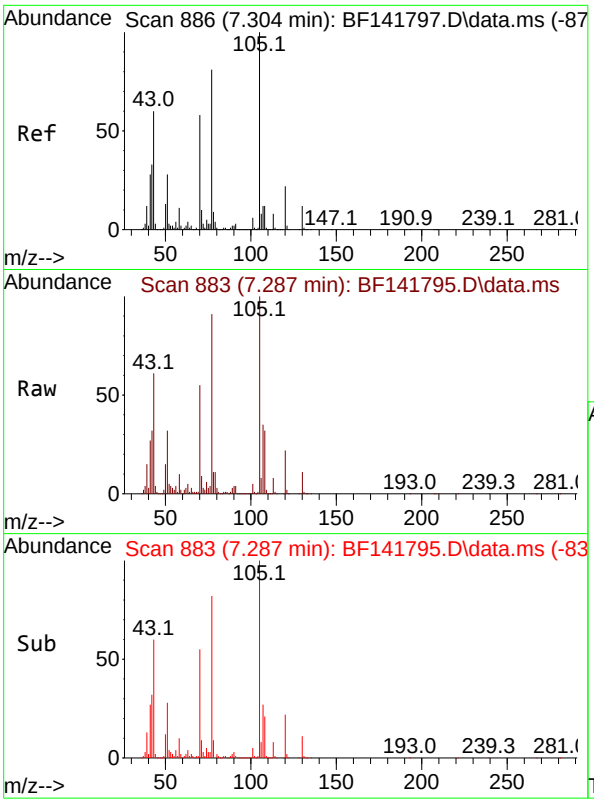


#18
Hexachloroethane
Concen: 9.899 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:117 Resp: 78340

Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.8	113.8
201	99.1	76.7	115.1

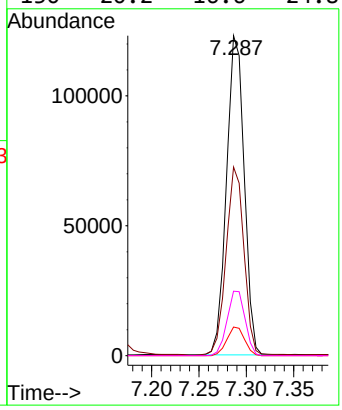




#19
n-Nitroso-di-n-propylamine
Concen: 10.315 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 70 Resp: 15986

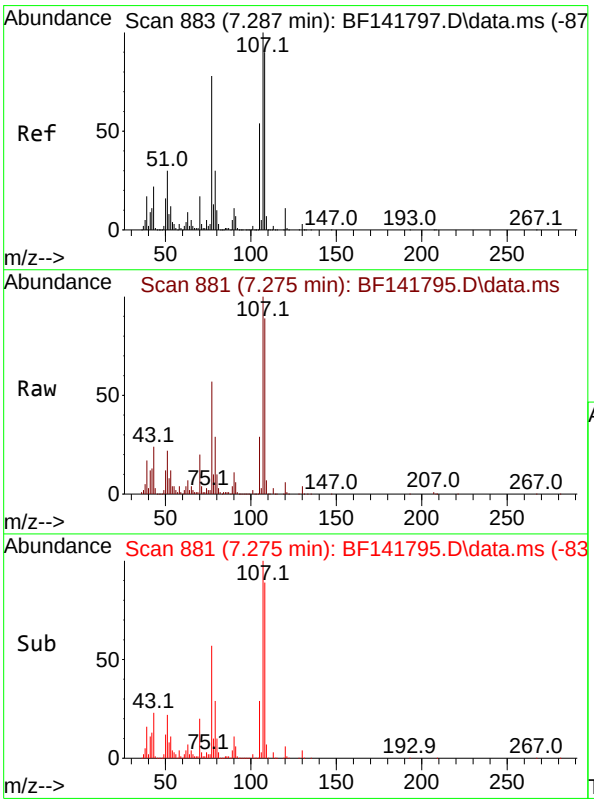
Ion	Ratio	Lower	Upper
70	100		
42	58.9	45.4	68.0
101	8.9	7.8	11.8
130	20.2	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

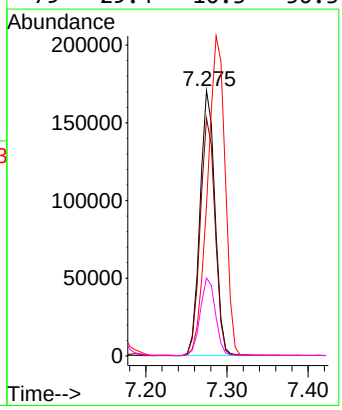
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

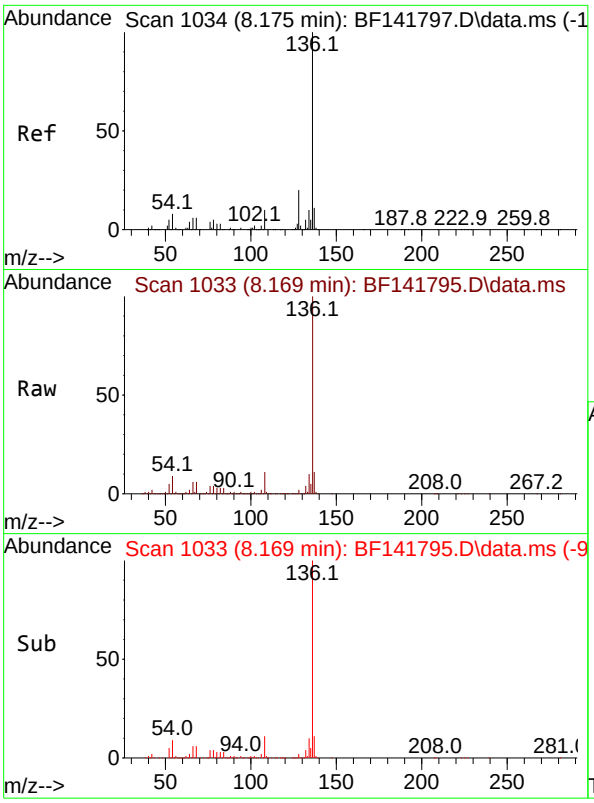


#20
3+4-Methylphenols
Concen: 10.842 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 218359

Ion	Ratio	Lower	Upper
107	100		
108	89.5	69.7	109.7
77	56.7	58.3	98.3#
79	29.4	10.3	50.3

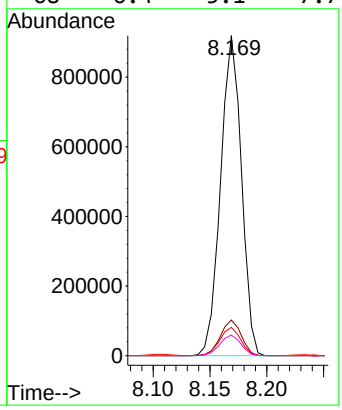




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:136 Resp: 117383

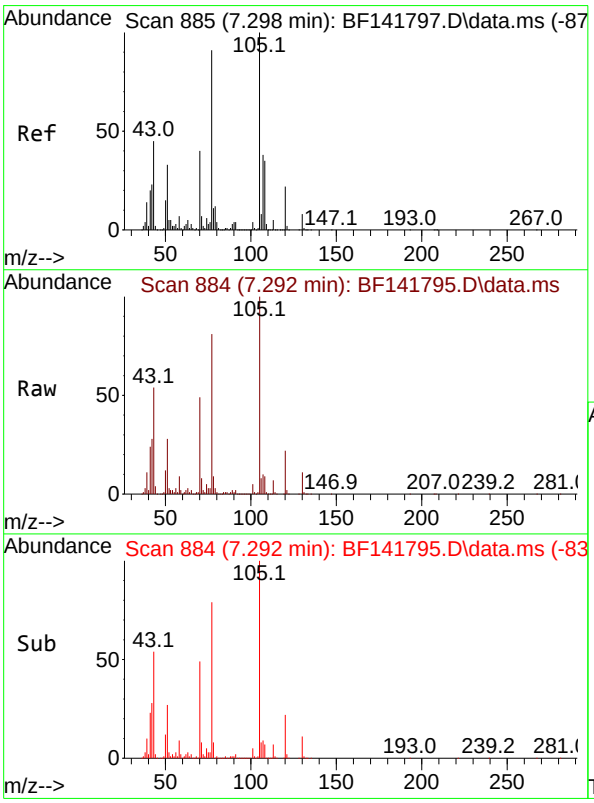
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.8	6.9	10.3
68	6.4	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

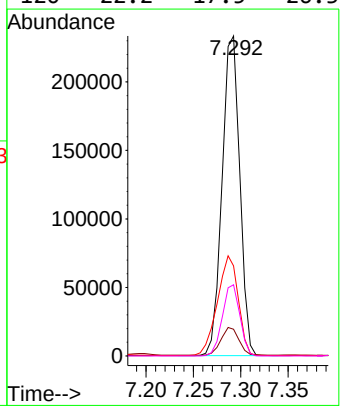
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

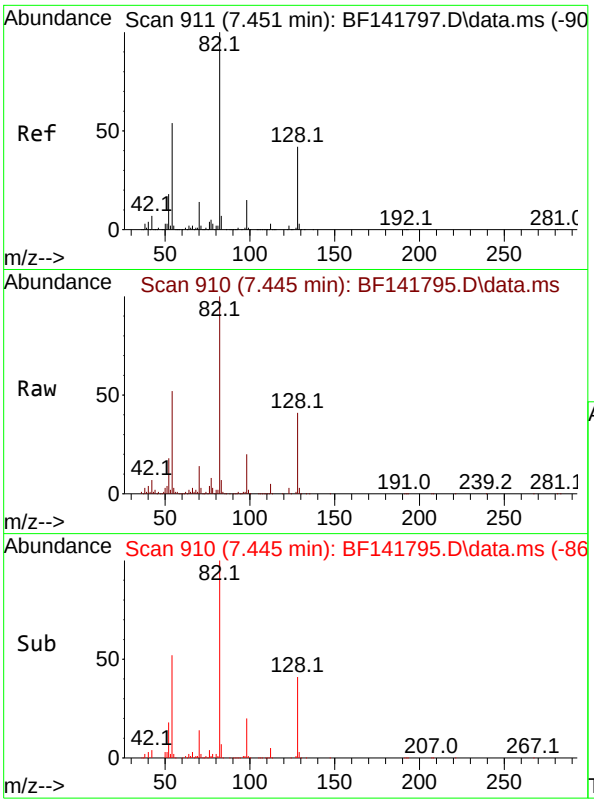


#22
Acetophenone
Concen: 10.606 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:105 Resp: 303217

Ion	Ratio	Lower	Upper
105	100		
71	8.4	5.4	8.0#
51	28.2	26.1	39.1
120	22.2	17.5	26.3





#23
Nitrobenzene-d5
Concen: 17.336 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

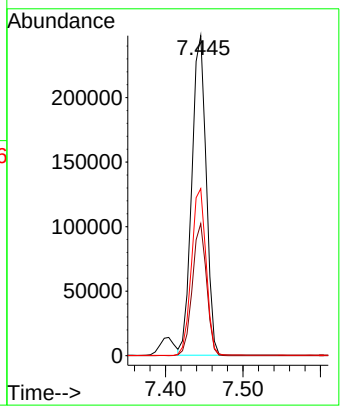
Tgt Ion: 82 Resp: 31836

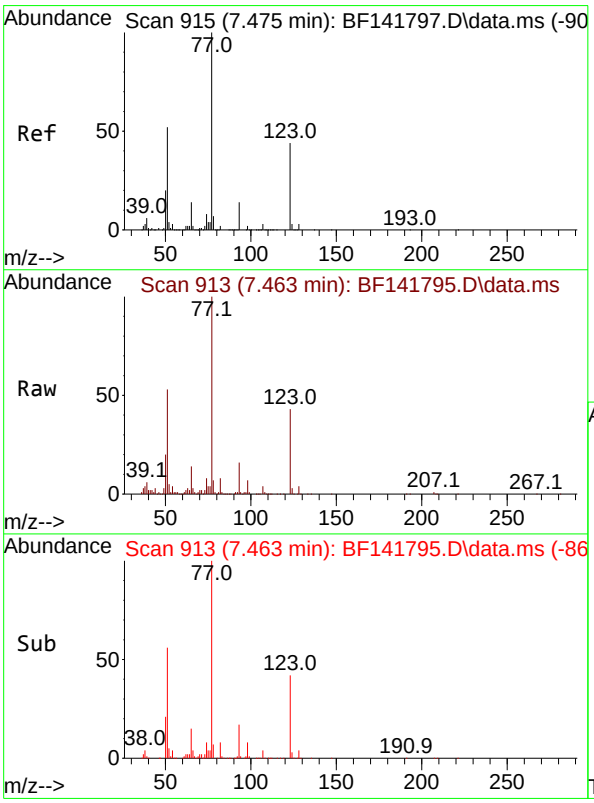
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.5	50.3
54	52.2	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

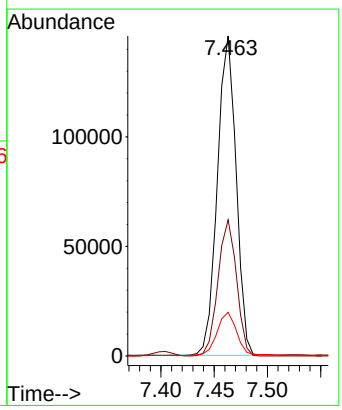


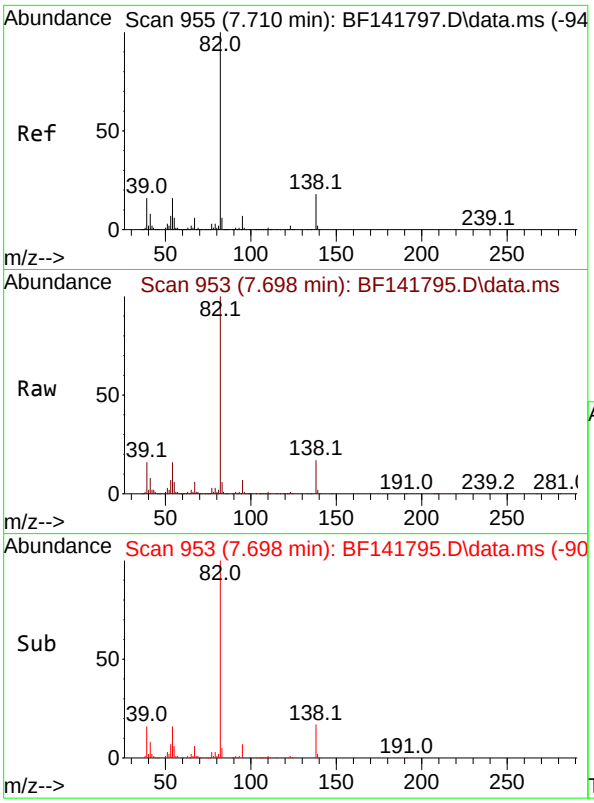


#24
Nitrobenzene
Concen: 9.057 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 178109

Ion	Ratio	Lower	Upper
77	100		
123	42.6	35.8	53.8
65	13.7	11.2	16.8





#25
Isophorone
Concen: 10.145 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

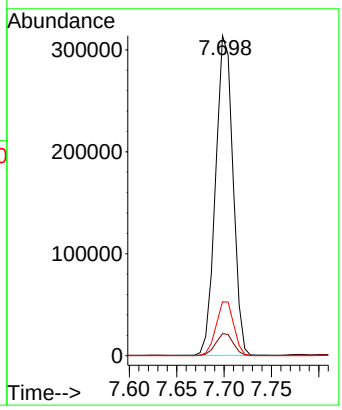
Tgt Ion: 82 Resp: 40022

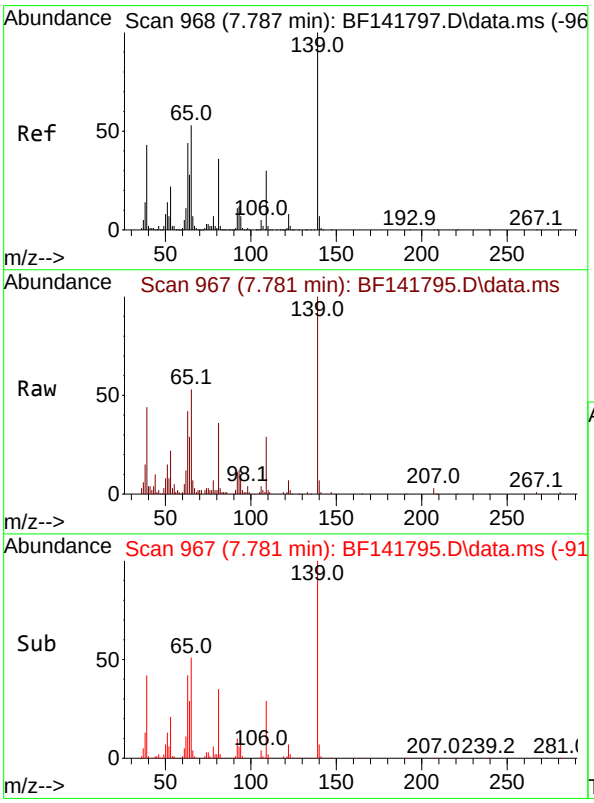
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.8	8.8
138	16.9	14.0	21.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

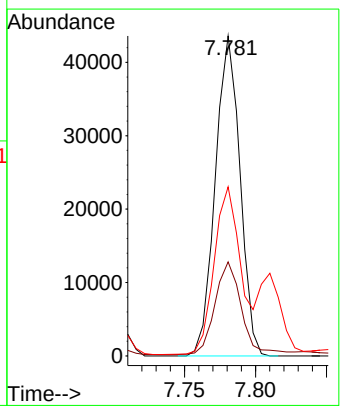


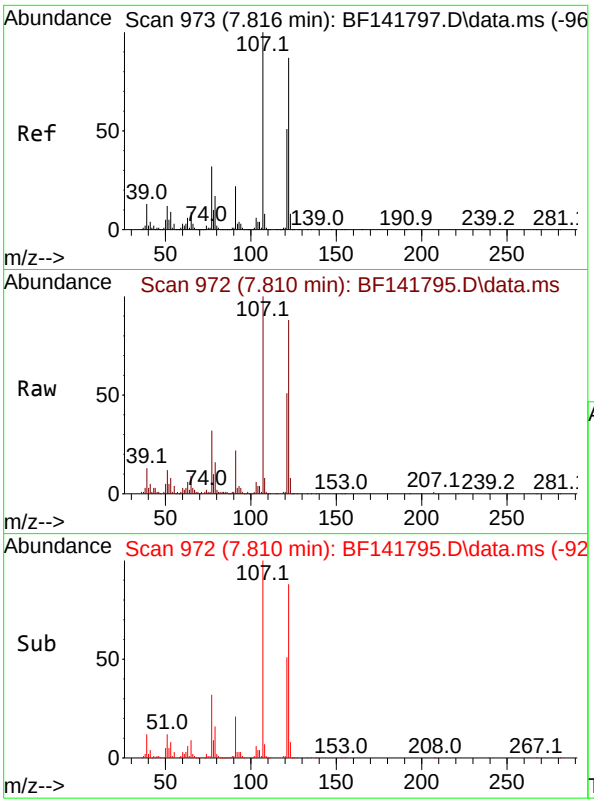


#26
2-Nitrophenol
Concen: 9.980 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:139 Resp: 52703

Ion	Ratio	Lower	Upper
139	100		
109	29.4	24.1	36.1
65	52.9	42.3	63.5

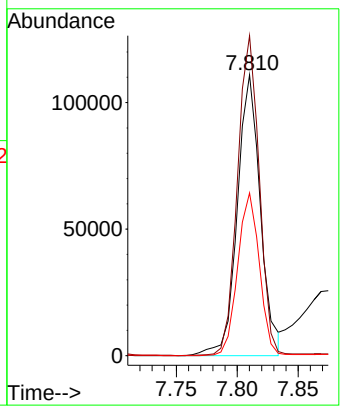




#27
2,4-Dimethylphenol
Concen: 10.103 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 14651

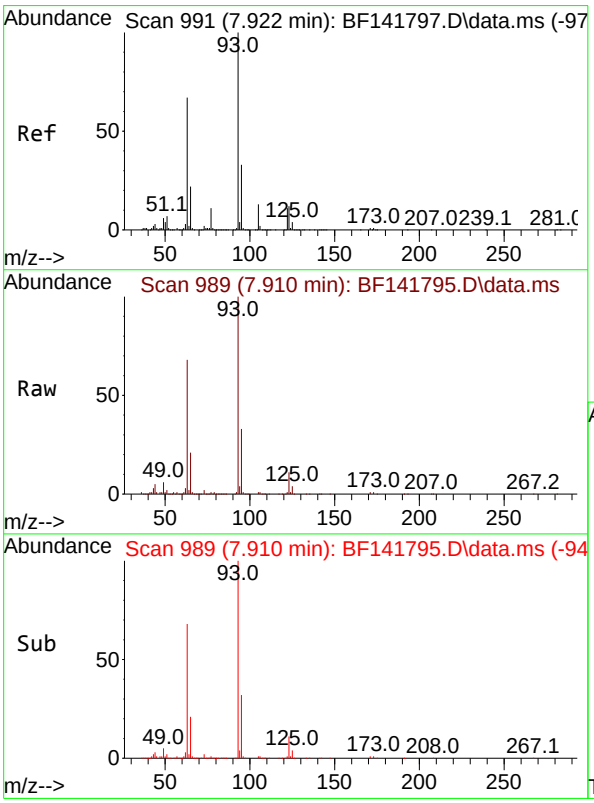
Ion	Ratio	Lower	Upper
122	100		
107	113.9	92.5	138.7
121	57.9	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

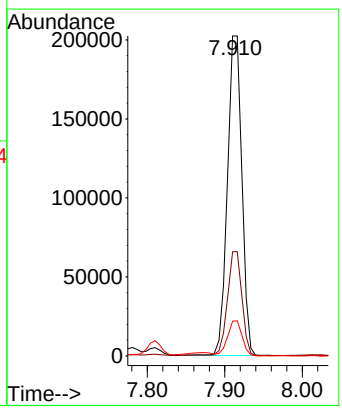
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

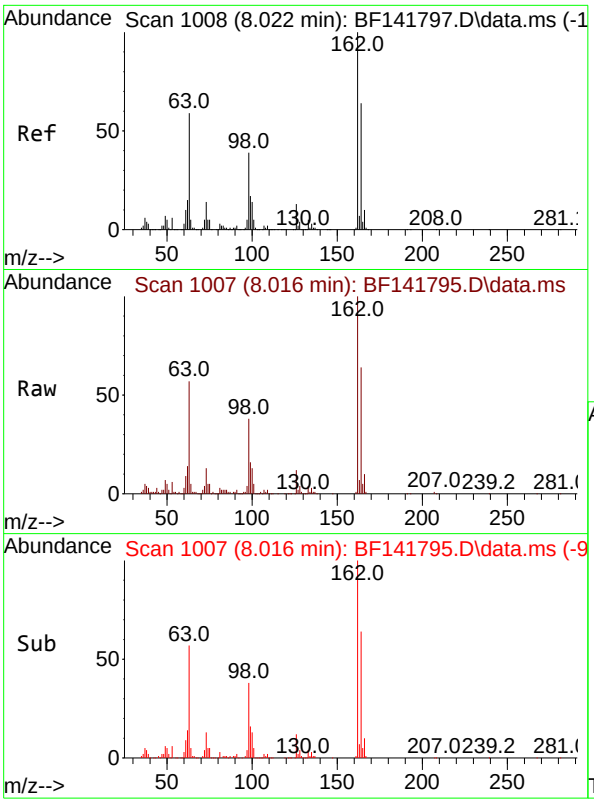


#28
bis(2-Chloroethoxy)methane
Concen: 10.445 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 262861

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.5	39.7
123	10.8	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 10.114 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

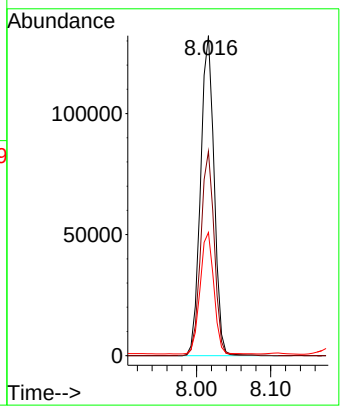
Tgt Ion:162 Resp: 16921(

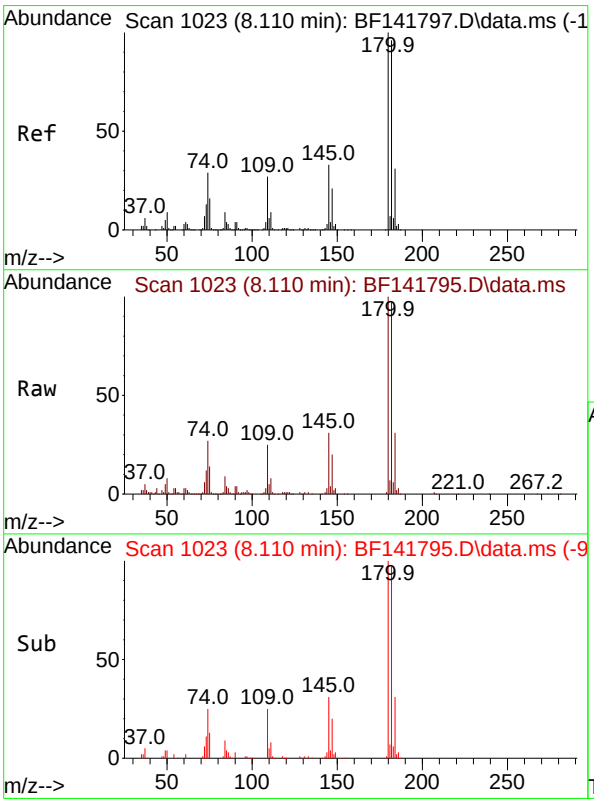
Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.3	84.3
98	38.5	19.6	59.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

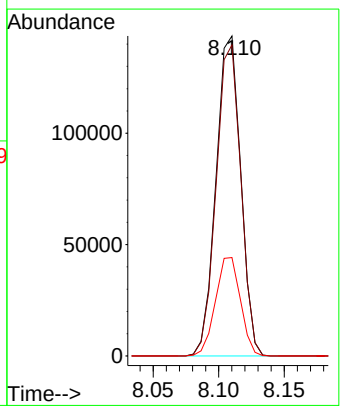


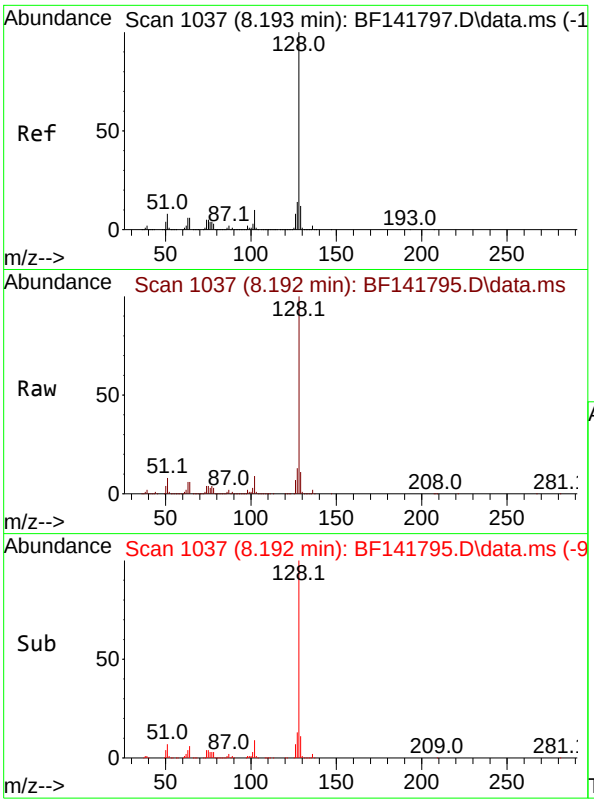


#30
1,2,4-Trichlorobenzene
Concen: 10.271 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:180 Resp: 188296

Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.8	115.2
145	30.8	26.4	39.6

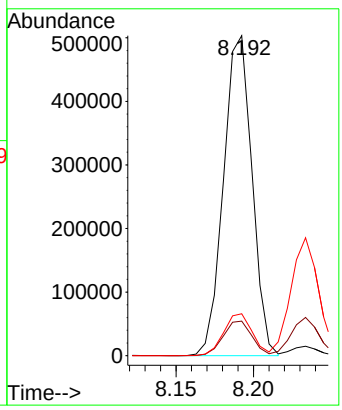




#31
Naphthalene
Concen: 10.668 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 64362

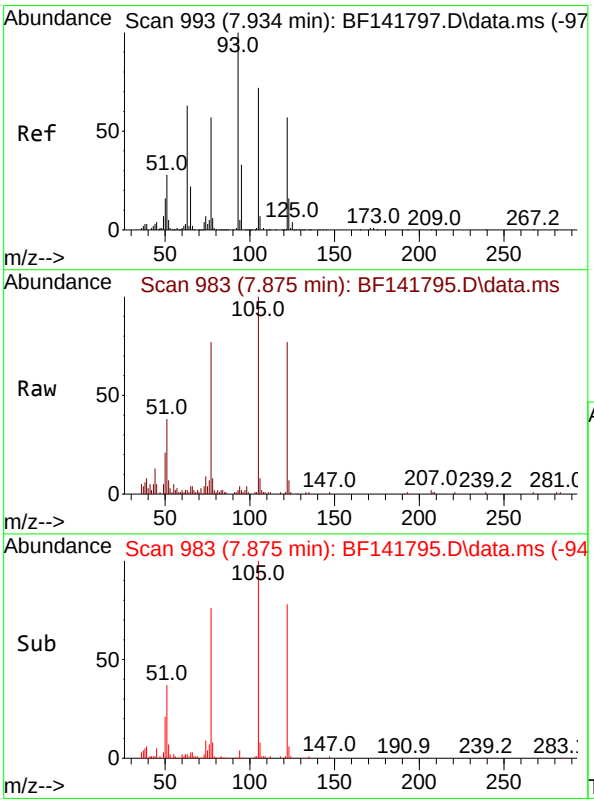
Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.2	13.8
127	13.1	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

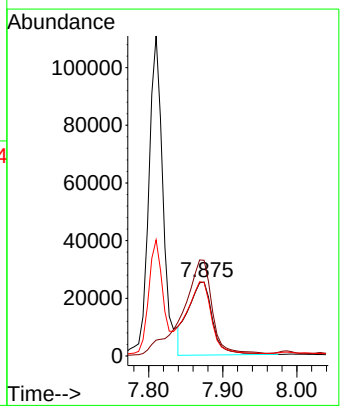
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

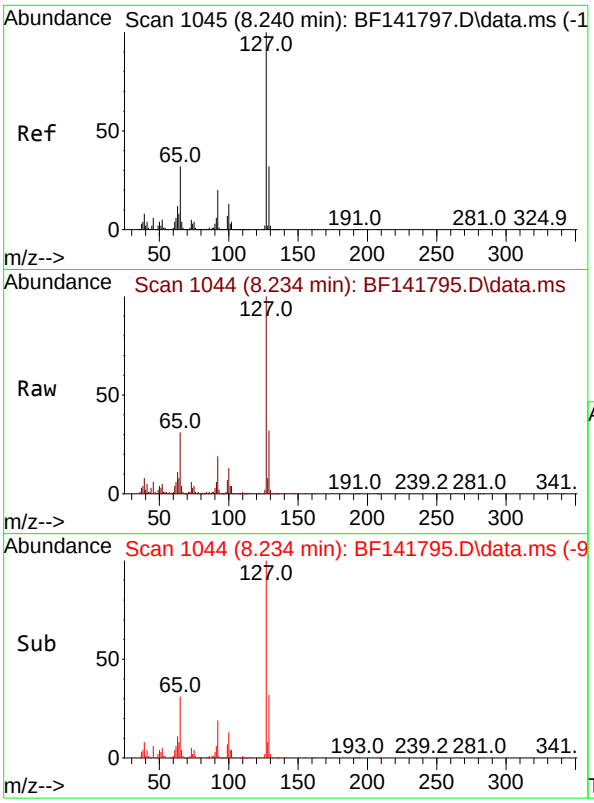


#32
Benzoic acid
Concen: 11.729 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.059 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 58209

Ion	Ratio	Lower	Upper
122	100		
105	129.5	105.8	145.8
77	99.2	79.9	119.9

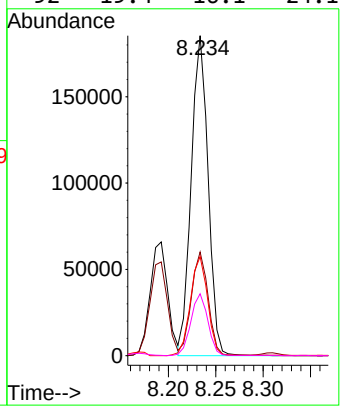




#33
4-Chloroaniline
Concen: 10.413 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:127 Resp: 23034

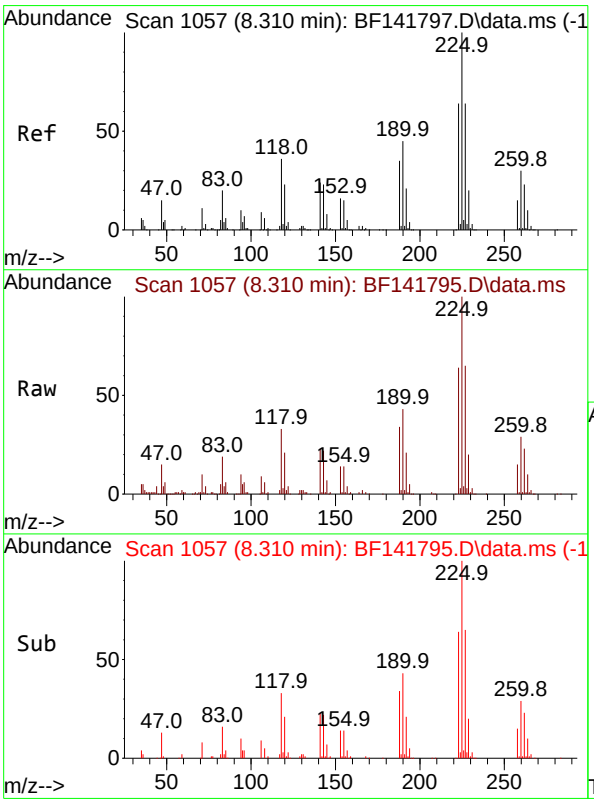
Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	30.9	25.7	38.5
92	19.4	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

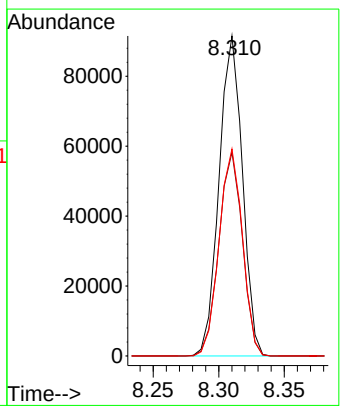
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

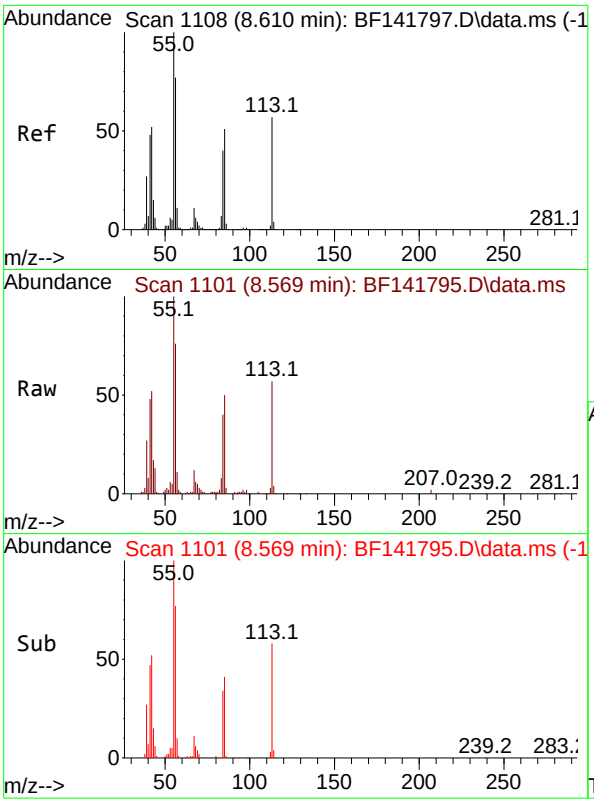


#34
Hexachlorobutadiene
Concen: 9.931 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:225 Resp: 113140

Ion	Ratio	Lower	Upper
225	100		
223	63.6	51.4	77.2
227	64.7	51.6	77.4

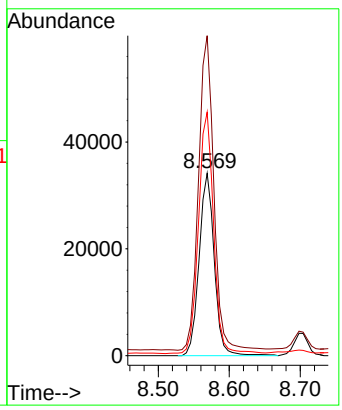




#35
Caprolactam
Concen: 9.855 ng
RT: 8.569 min Scan# 1
Delta R.T. -0.041 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:113 Resp: 5073

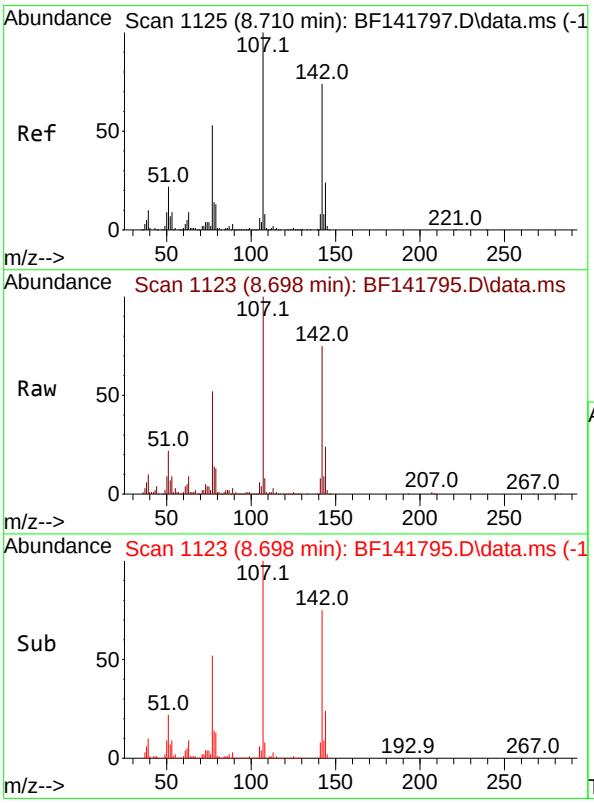
Ion	Ratio	Lower	Upper
113	100		
55	175.4	155.6	195.6
56	133.5	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

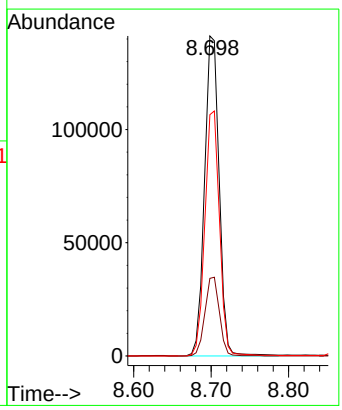
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

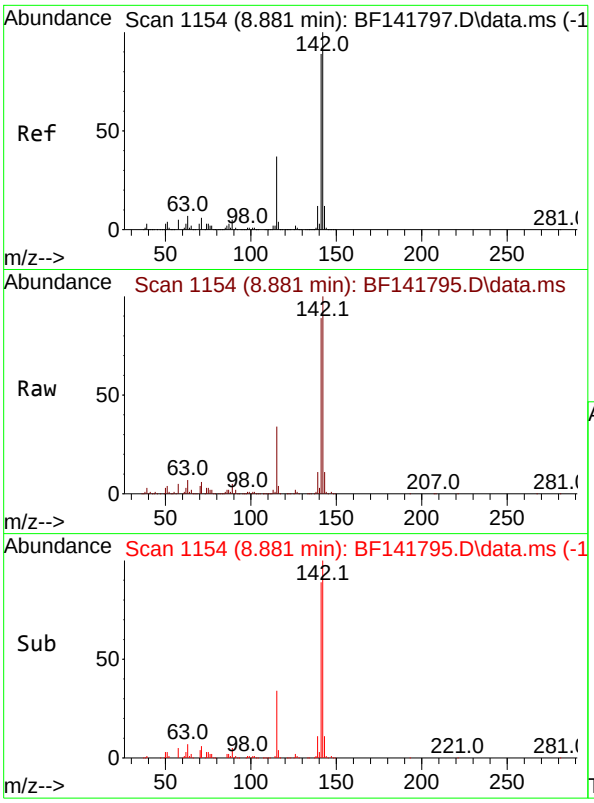


#36
4-Chloro-3-methylphenol
Concen: 9.987 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 185621

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.0
142	75.4	59.4	89.0

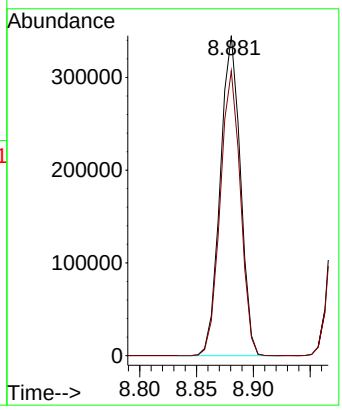




#37
2-Methylnaphthalene
Concen: 10.758 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 42572

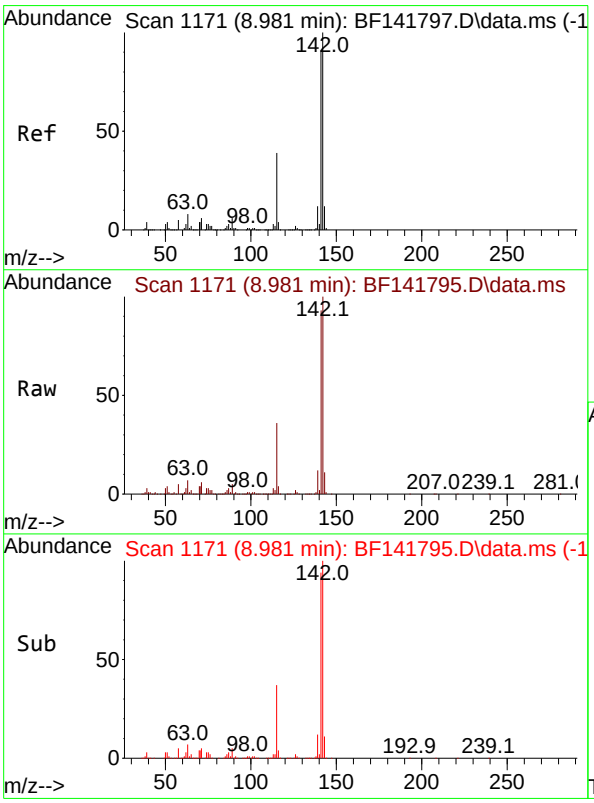
Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

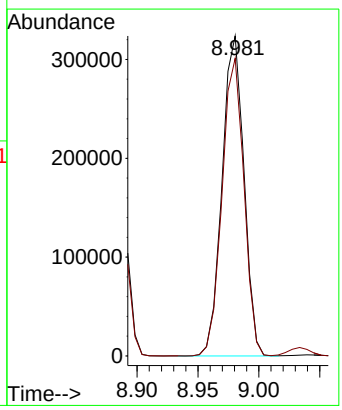
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

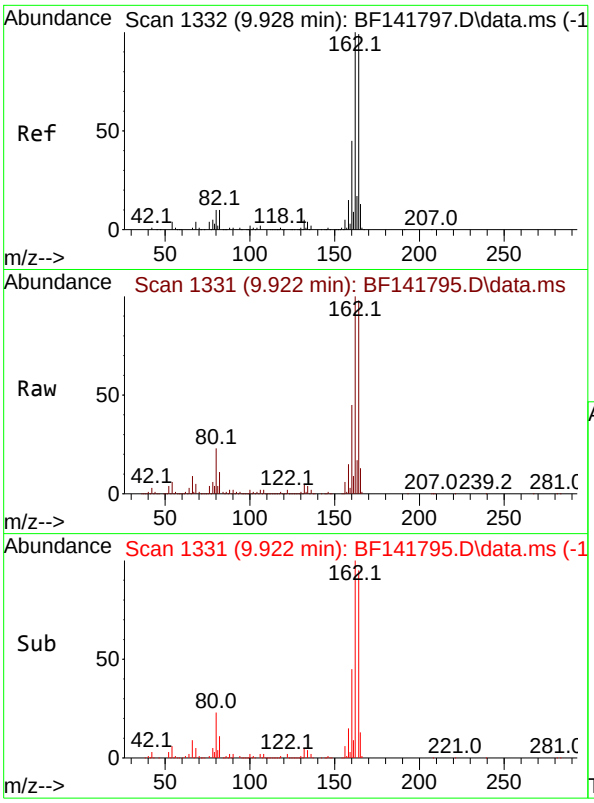


#38
1-Methylnaphthalene
Concen: 10.642 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 404087

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.1	109.7

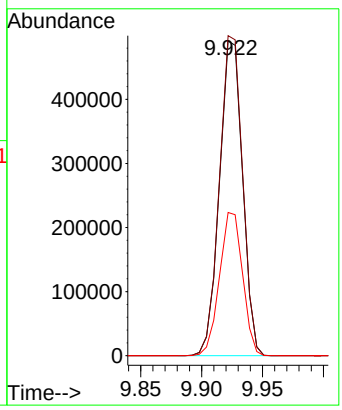




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:164 Resp: 64790

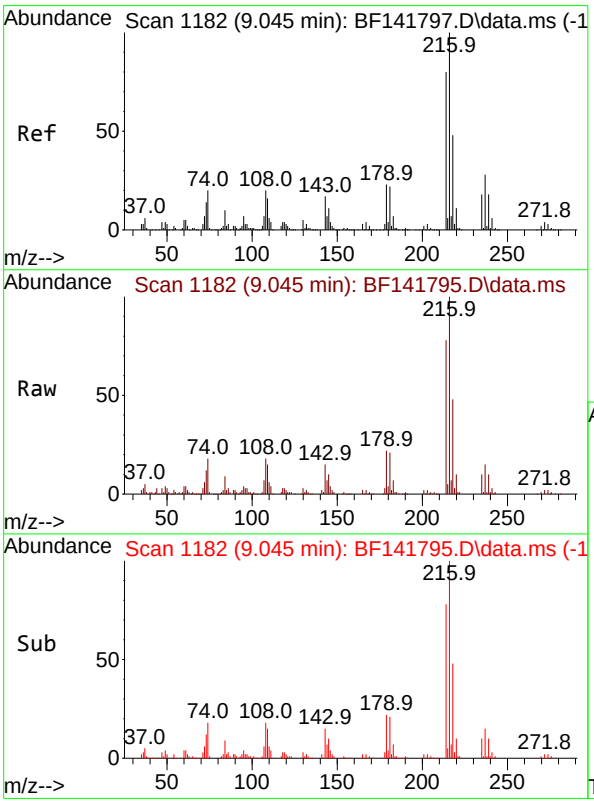
Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.5	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

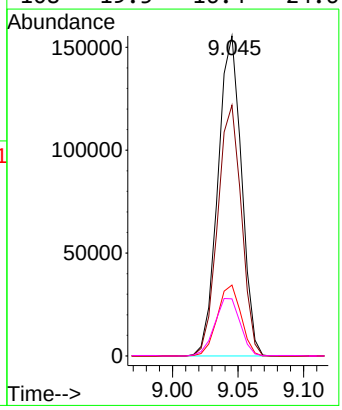
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

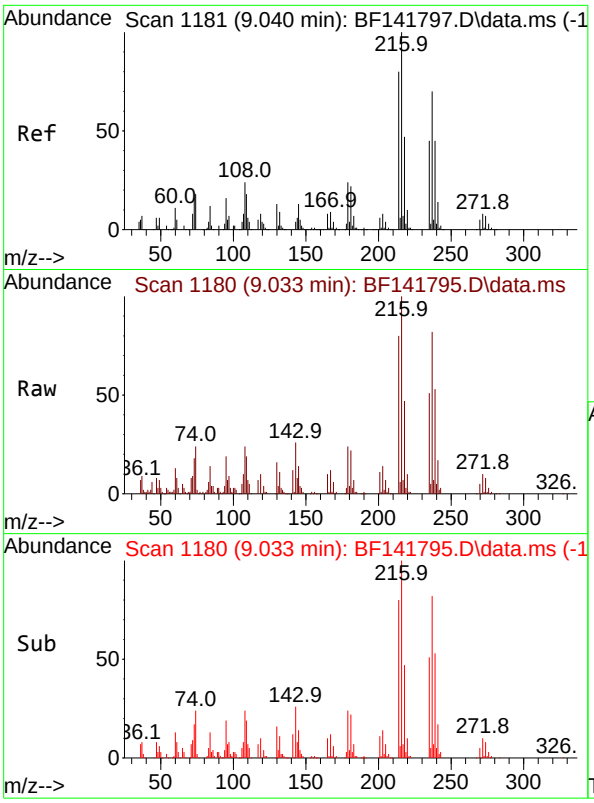


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.386 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:216 Resp: 194342

Ion	Ratio	Lower	Upper
216	100		
214	78.6	63.5	95.3
179	22.3	18.1	27.1
108	19.5	16.4	24.6

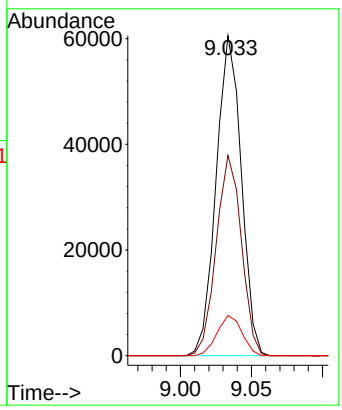




#41
Hexachlorocyclopentadiene
Concen: 9.533 ng
RT: 9.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:237 Resp: 7444

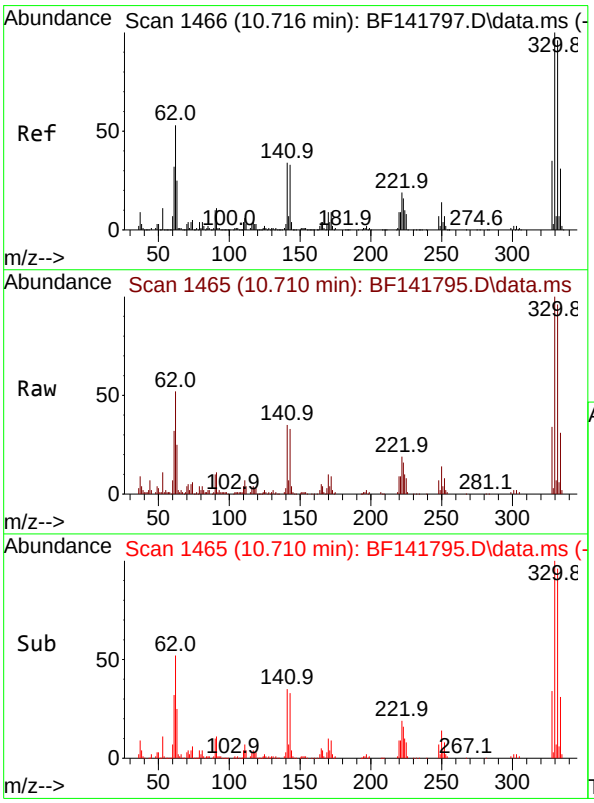
Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.3	83.3
272	12.5	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

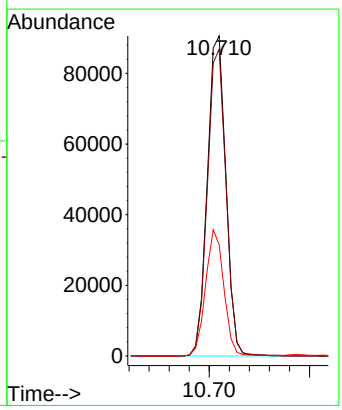
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

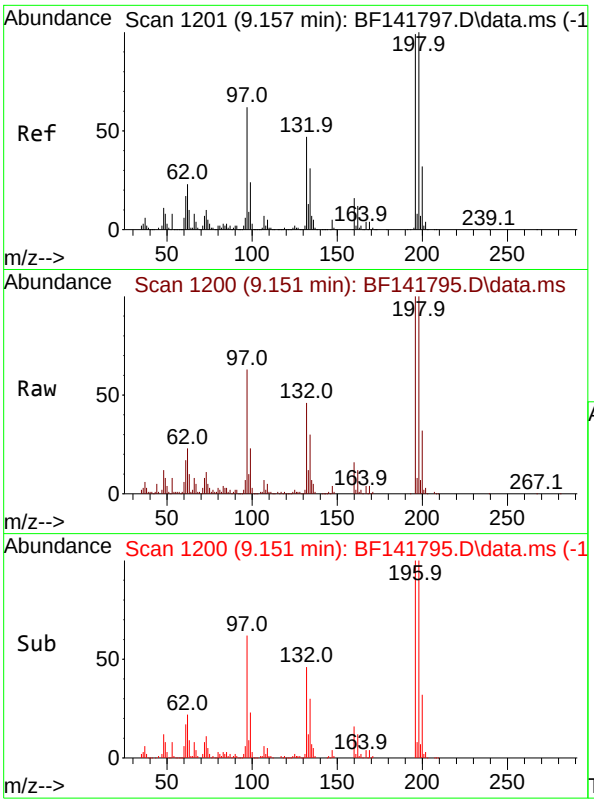


#42
2,4,6-Tribromophenol
Concen: 19.078 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:330 Resp: 116043

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.6	115.0
141	39.0	29.0	43.4





#43
2,4,6-Trichlorophenol
Concen: 9.864 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

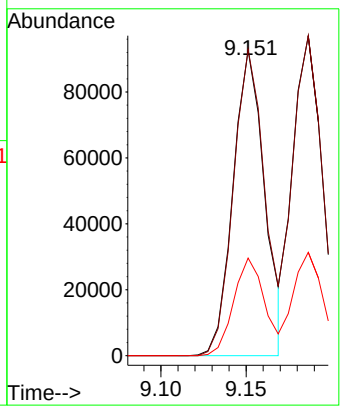
Tgt Ion:196 Resp: 11923

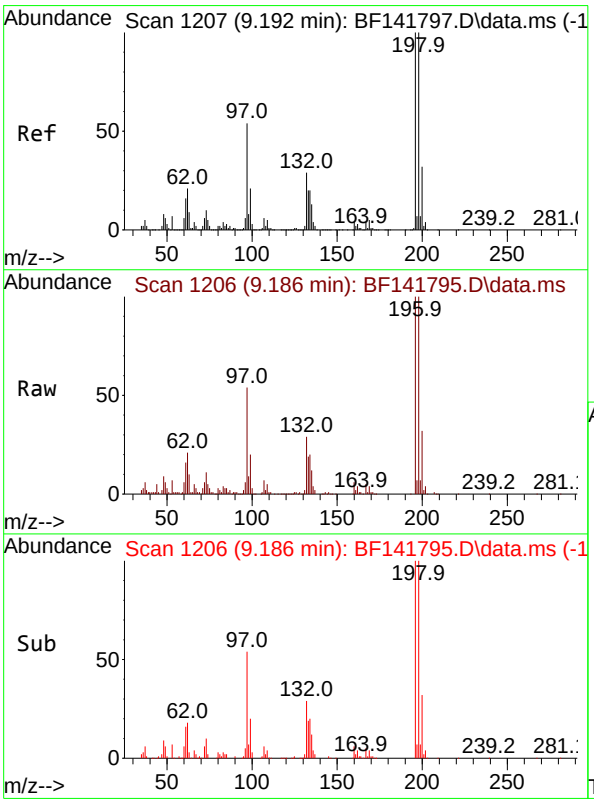
Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.4	120.6
200	32.0	25.7	38.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

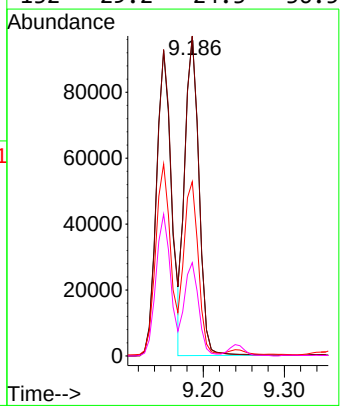


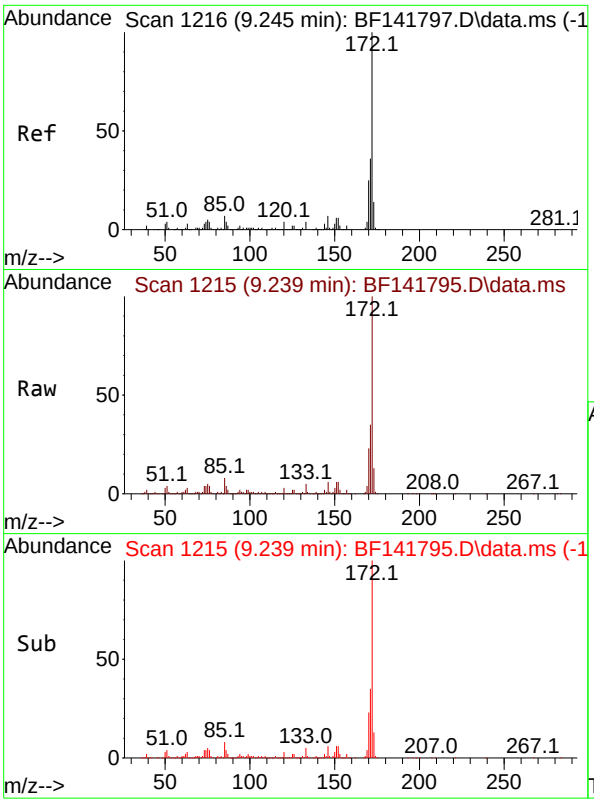


#44
2,4,5-Trichlorophenol
Concen: 9.860 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:196 Resp: 118017

Ion	Ratio	Lower	Upper
196	100		
198	100.1	79.7	119.5
97	54.5	44.2	66.2
132	29.2	24.3	36.5

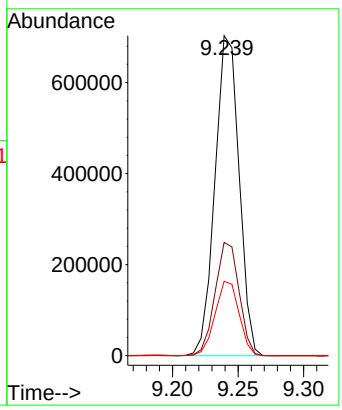




#45
2-Fluorobiphenyl
Concen: 22.244 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:172 Resp: 89879

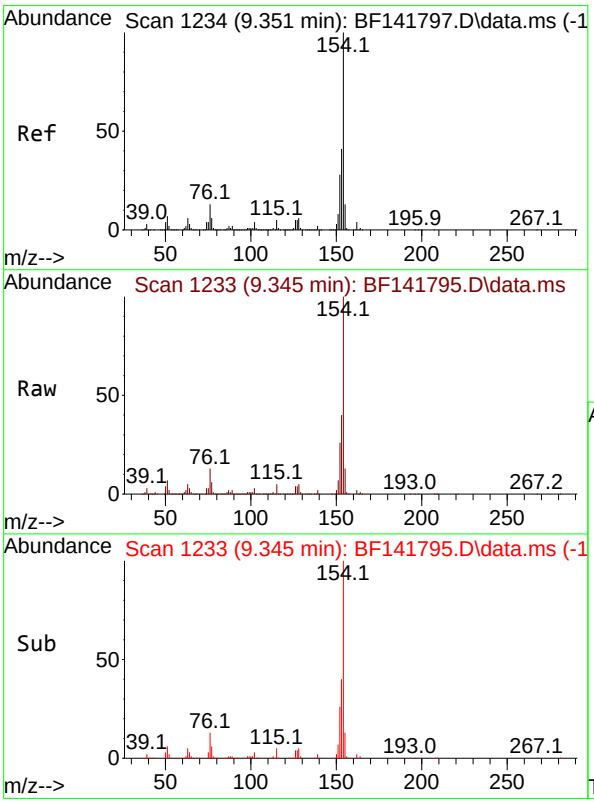
Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.3	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

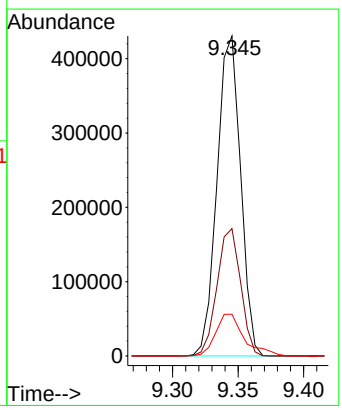
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

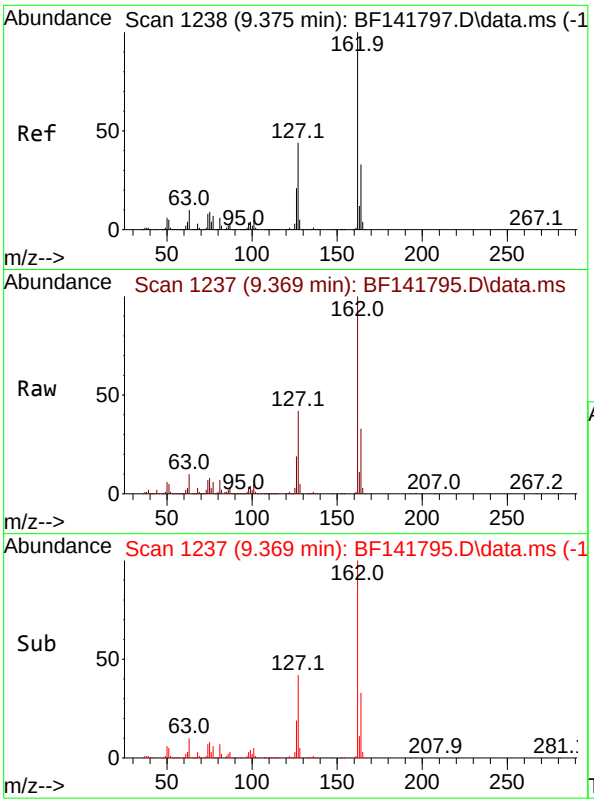


#46
1,1'-Biphenyl
Concen: 10.896 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:154 Resp: 537368

Ion	Ratio	Lower	Upper
154	100		
153	39.8	21.4	61.4
76	13.1	0.0	33.4

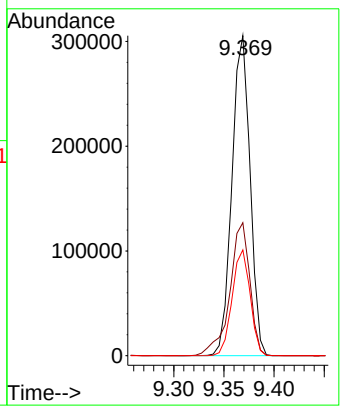




#47
2-Chloronaphthalene
Concen: 10.535 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:162 Resp: 38344

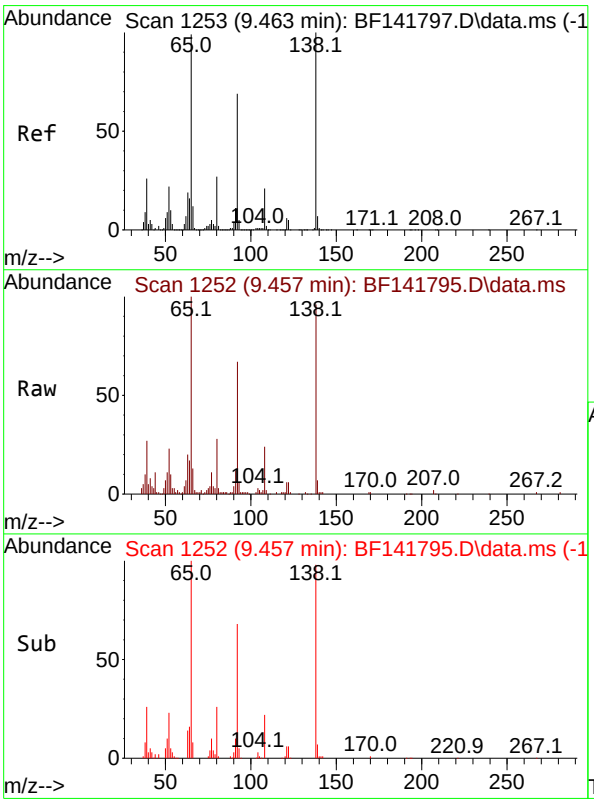
Ion	Ratio	Lower	Upper
162	100		
127	41.5	35.0	52.6
164	33.1	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

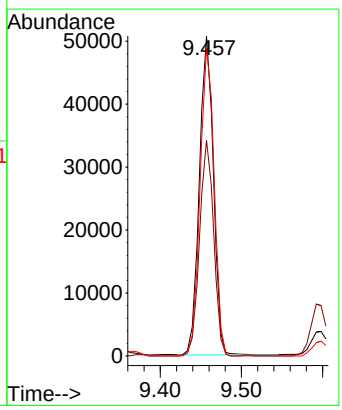
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

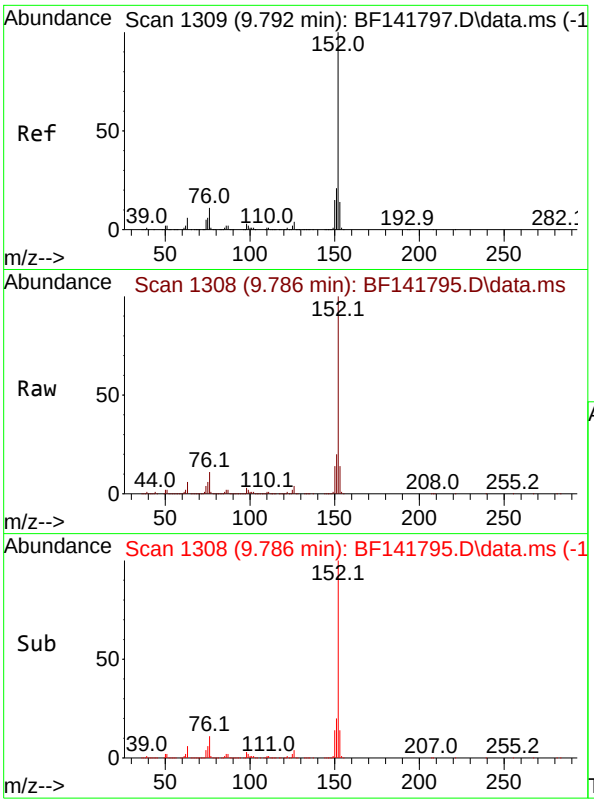


#48
2-Nitroaniline
Concen: 9.877 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 65 Resp: 60658

Ion	Ratio	Lower	Upper
65	100		
92	67.4	55.7	83.5
138	96.3	80.6	121.0

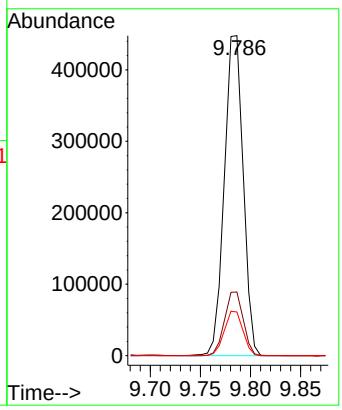




#49
Acenaphthylene
Concen: 10.739 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 58606

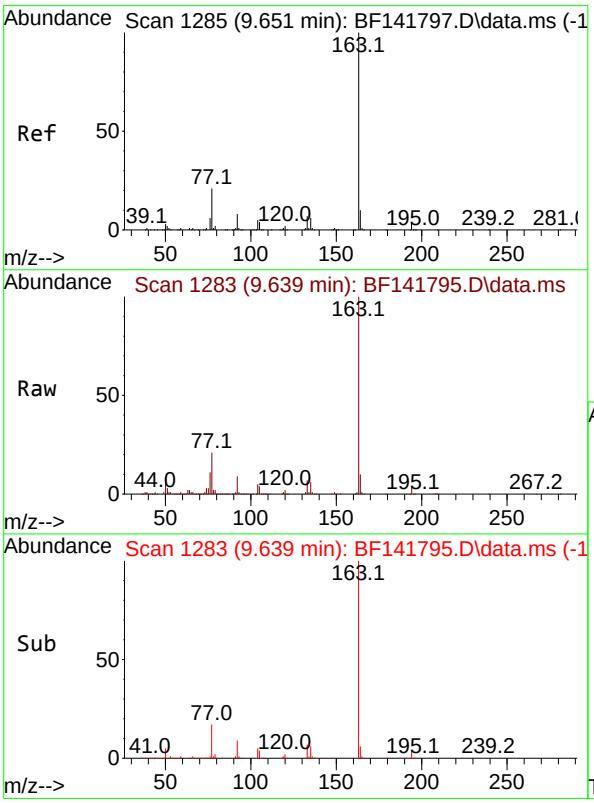
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	24.8
153	13.7	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

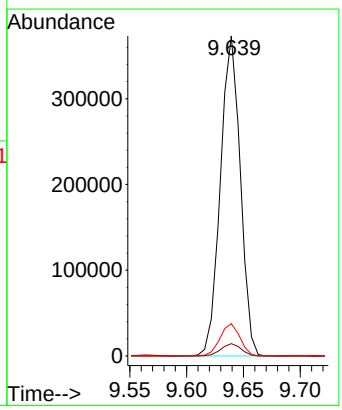
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

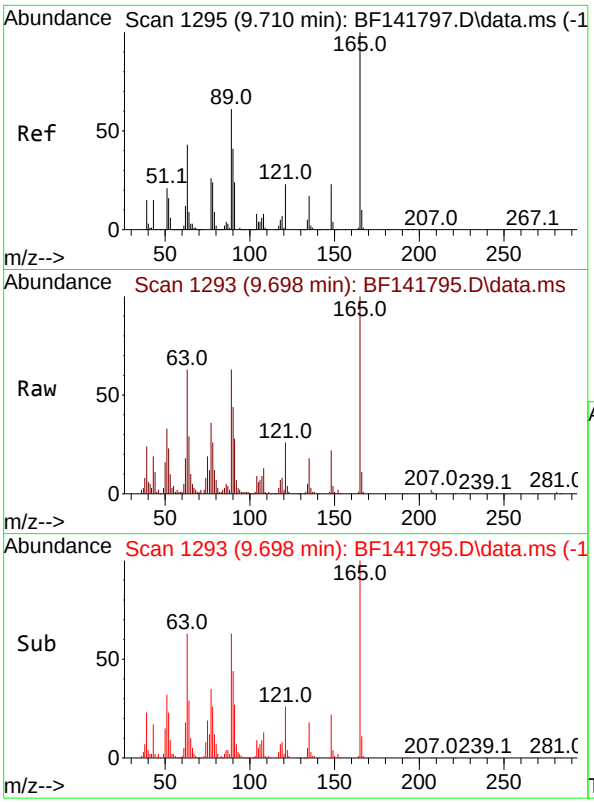


#50
Dimethylphthalate
Concen: 10.491 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:163 Resp: 455190

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.1	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 9.588 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

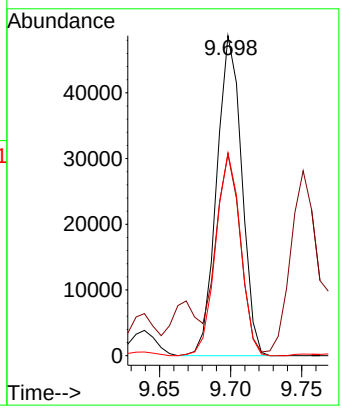
Tgt Ion:165 Resp: 5961

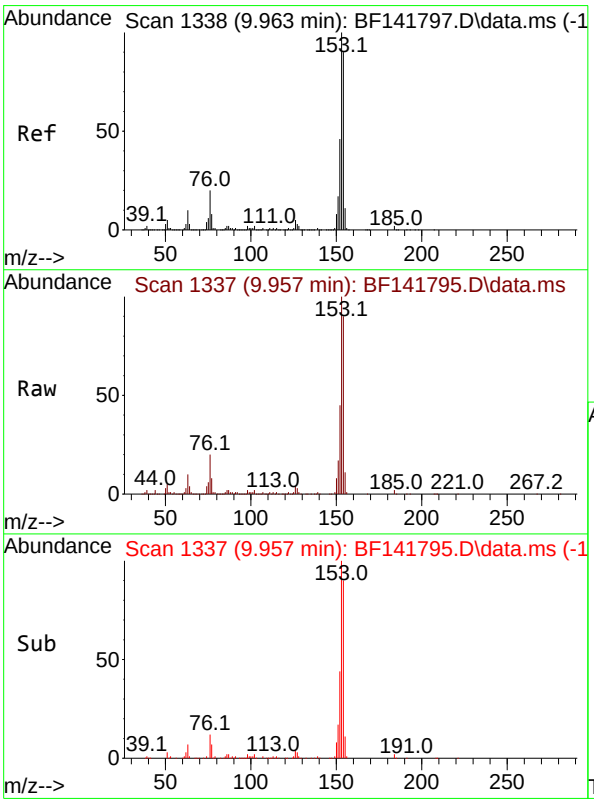
Ion	Ratio	Lower	Upper
165	100		
63	62.9	49.5	74.3
89	63.4	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

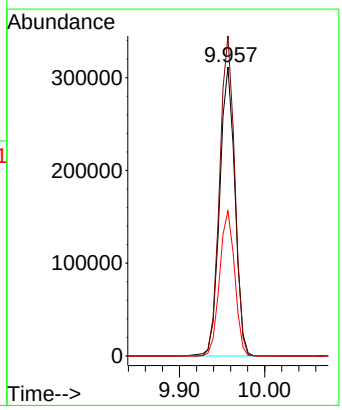


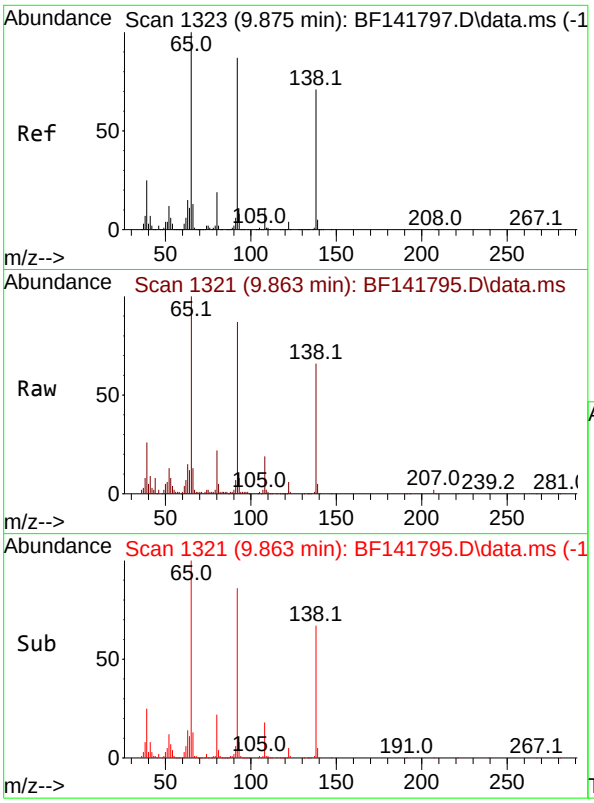


#52
Acenaphthene
Concen: 10.568 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:154 Resp: 389154

Ion	Ratio	Lower	Upper
154	100		
153	110.7	88.7	133.1
152	50.2	40.9	61.3





#53
3-Nitroaniline
Concen: 9.606 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

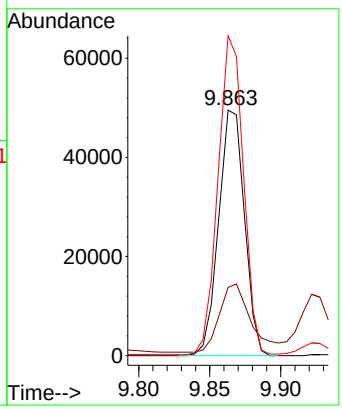
Tgt Ion:138 Resp: 6256

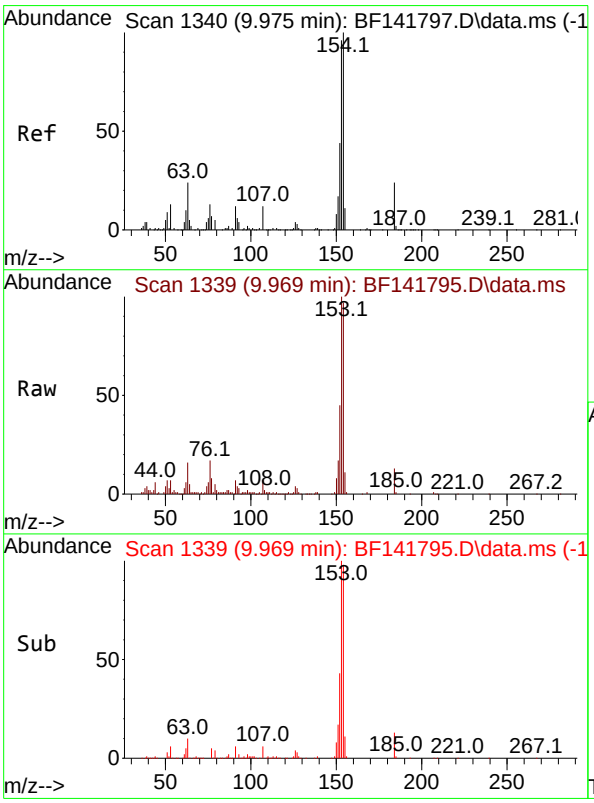
Ion	Ratio	Lower	Upper
138	100		
108	27.8	12.7	19.1#
92	130.3	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

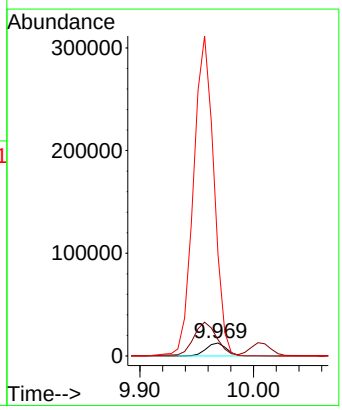


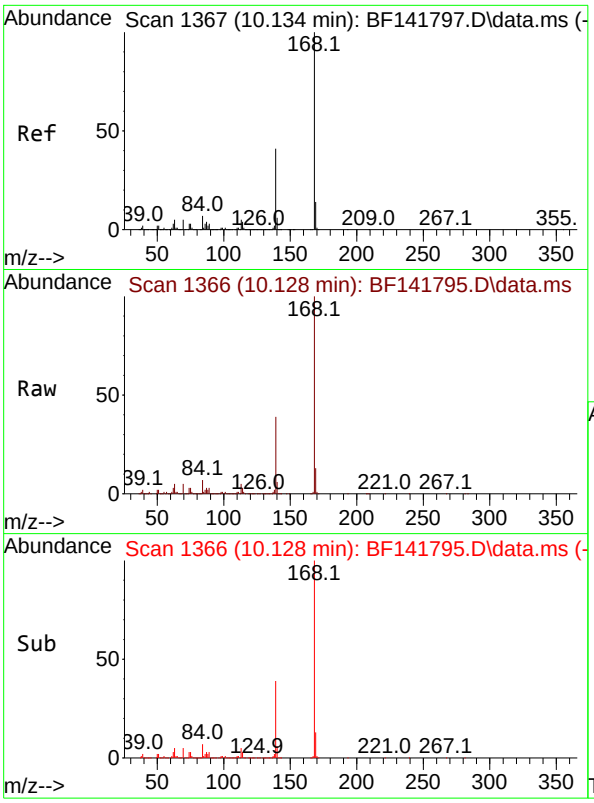


#54
2,4-Dinitrophenol
Concen: 10.881 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 15803

Ion	Ratio	Lower	Upper
184	100		
63	124.5	79.0	118.6#
154	775.6	335.8	503.8#

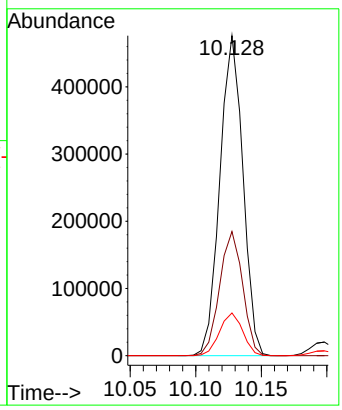




#55
Dibenzofuran
Concen: 10.843 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:168 Resp: 58112

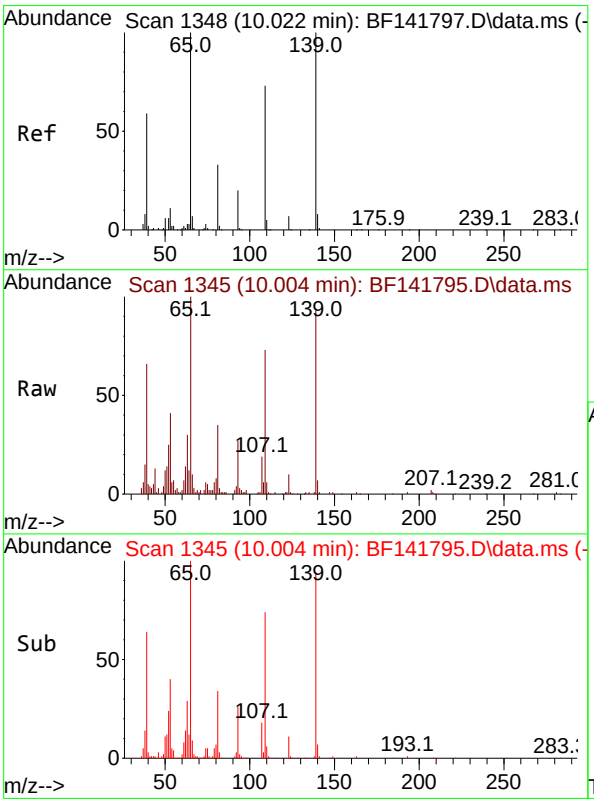
Ion	Ratio	Lower	Upper
168	100		
139	38.8	32.9	49.3
169	13.4	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

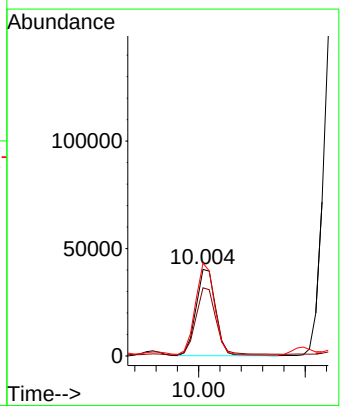
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

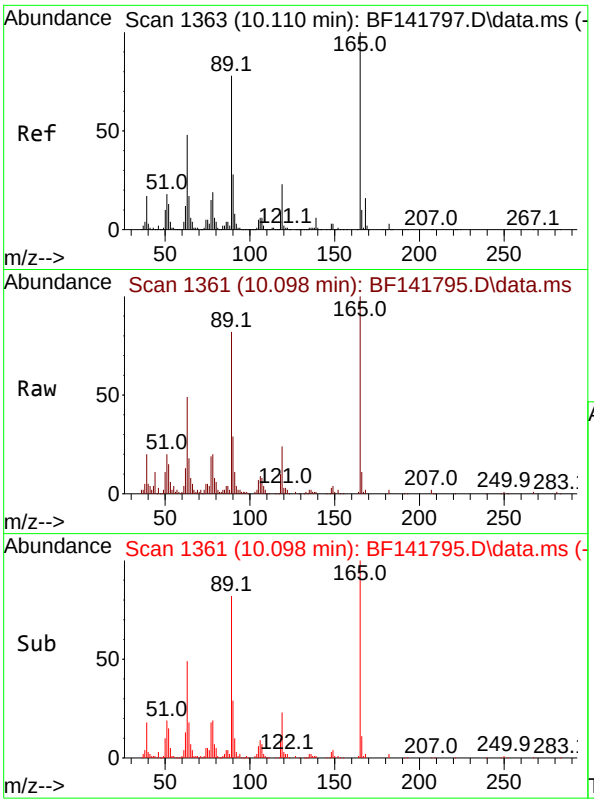


#56
4-Nitrophenol
Concen: 8.022 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:139 Resp: 51406

Ion	Ratio	Lower	Upper
139	100		
109	78.6	53.4	93.4
65	107.2	82.1	122.1

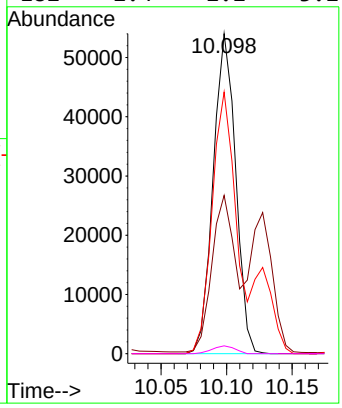




#57
2,4-Dinitrotoluene
Concen: 9.401 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:165 Resp: 6429

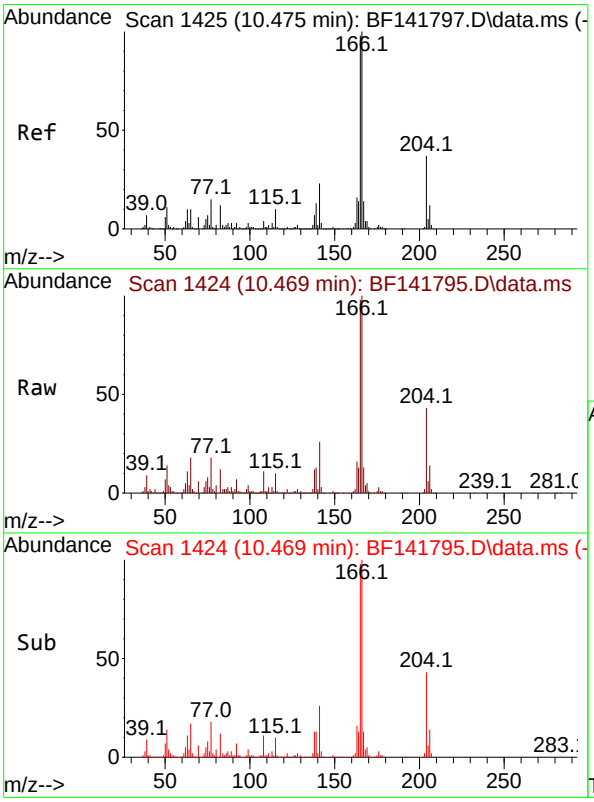
Ion	Ratio	Lower	Upper
165	100		
63	49.5	38.8	58.2
89	81.7	62.6	94.0
182	2.4	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

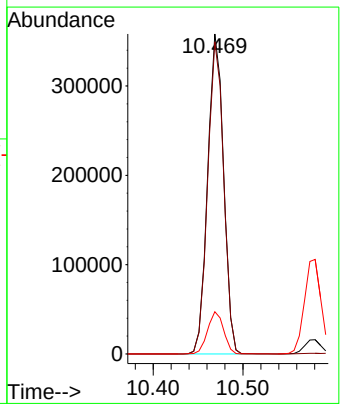
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

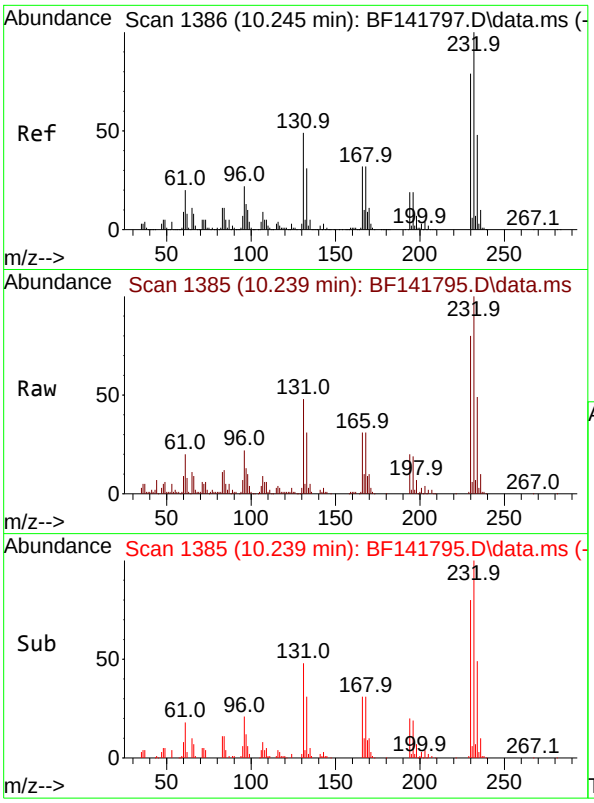


#58
Fluorene
Concen: 11.027 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:166 Resp: 442697

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.6	117.8
167	13.2	11.0	16.4

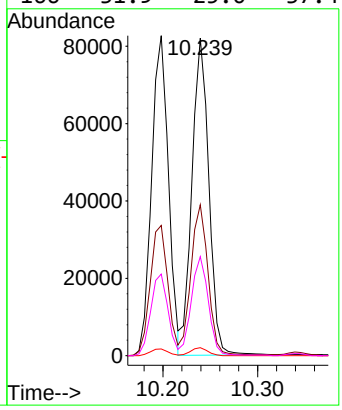




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.772 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:232 Resp: 10172

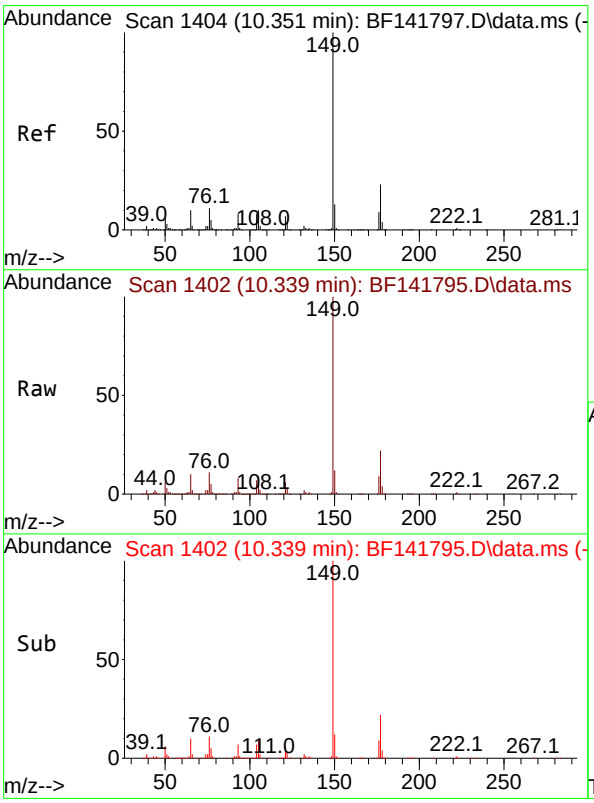
Ion	Ratio	Lower	Upper
232	100		
131	47.7	37.8	56.8
130	2.6	2.0	3.0
166	31.9	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

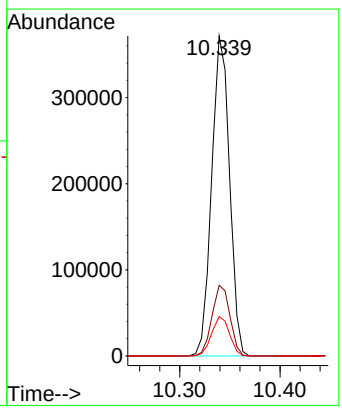
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

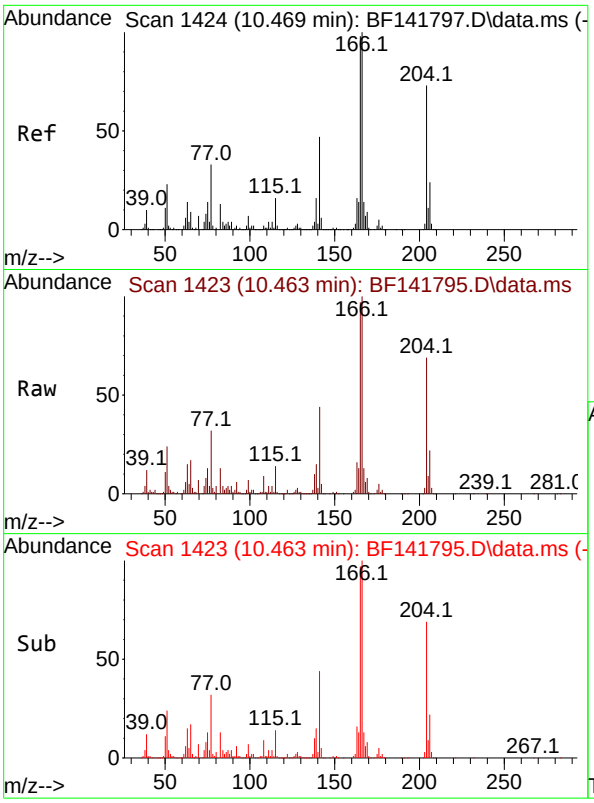


#60
Diethylphthalate
Concen: 10.520 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 457600

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.3	27.5
150	12.3	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 10.703 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

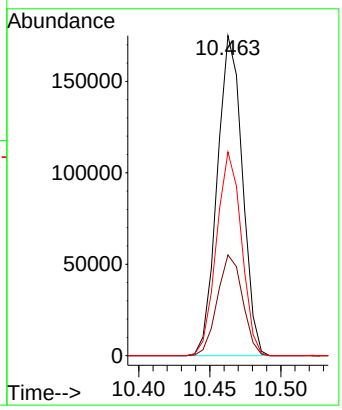
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

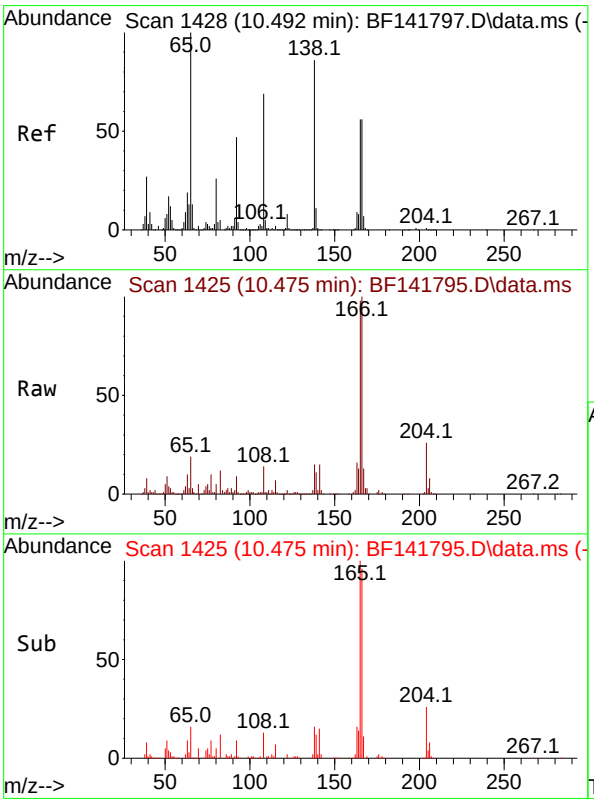
Tgt Ion:204 Resp: 21528

Ion	Ratio	Lower	Upper
204	100		
206	31.5	26.2	39.4
141	63.7	51.7	77.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

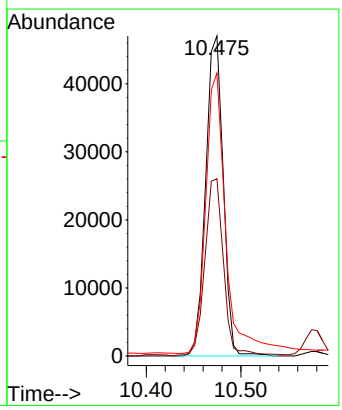


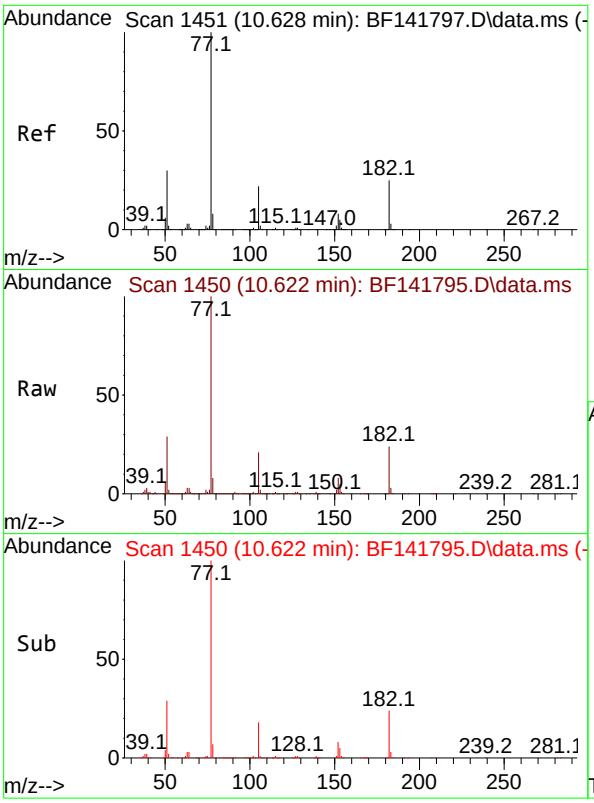


#62
4-Nitroaniline
Concen: 8.172 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:138 Resp: 60552

Ion	Ratio	Lower	Upper
138	100		
92	55.4	34.9	74.9
108	88.5	59.6	99.6

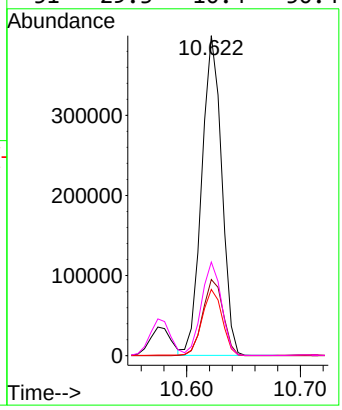




#63
Azobenzene
Concen: 10.631 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 48687

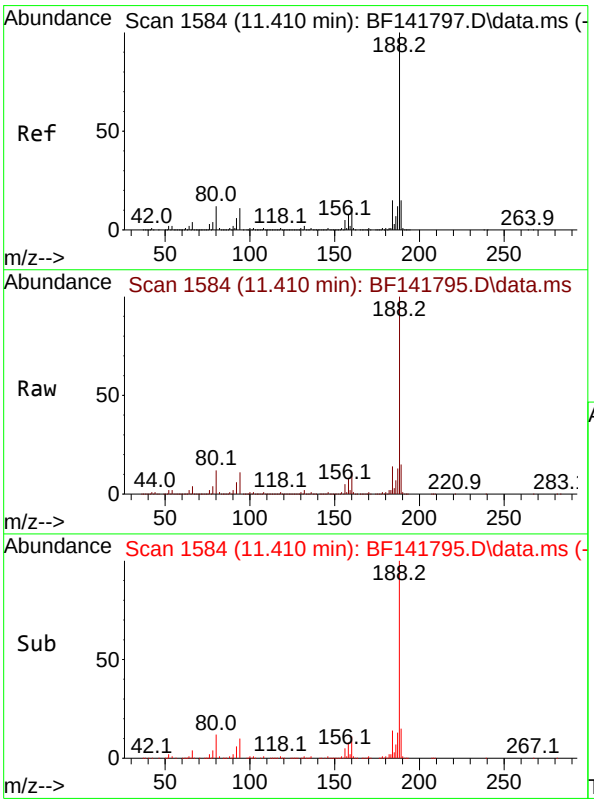
Ion	Ratio	Lower	Upper
77	100		
182	23.8	4.2	44.2
105	20.7	1.5	41.5
51	29.3	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

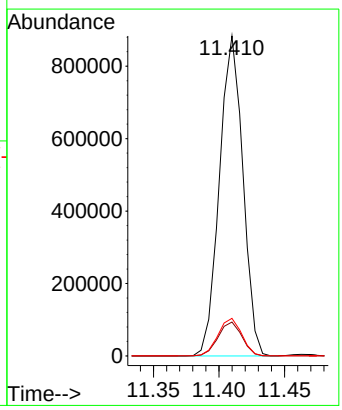
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

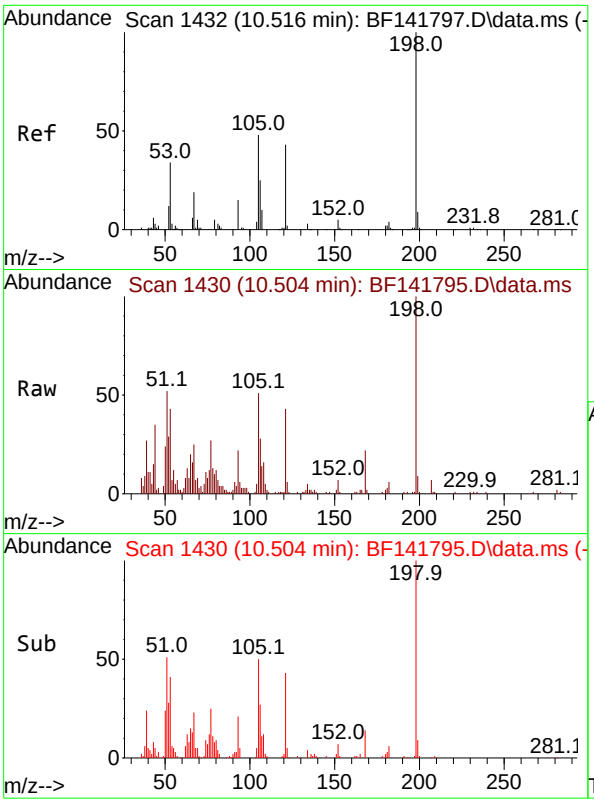


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:188 Resp: 1098842

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.9	13.3
80	11.7	9.7	14.5

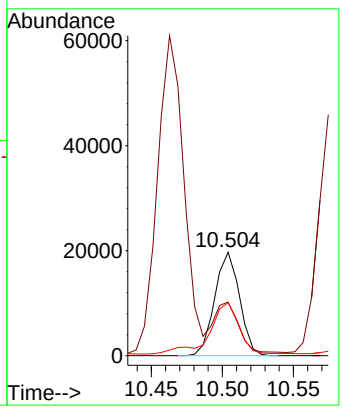




#65
4,6-Dinitro-2-methylphenol
Concen: 11.957 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:198 Resp: 2386

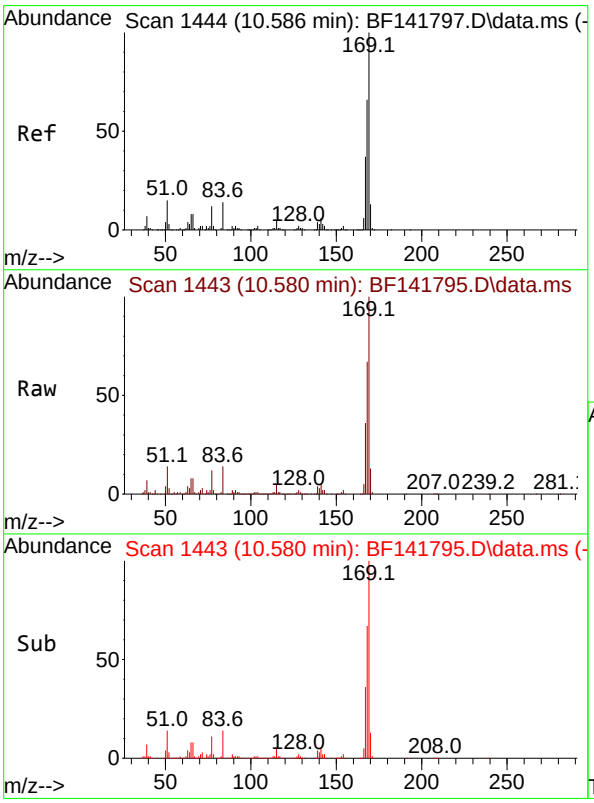
Ion	Ratio	Lower	Upper
198	100		
51	51.8	32.1	72.1
105	51.4	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

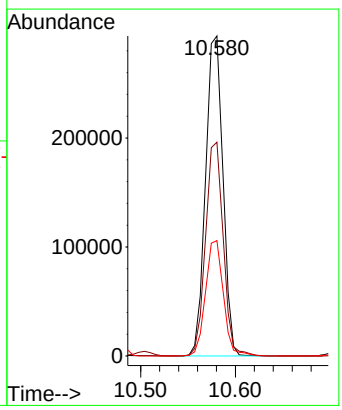
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

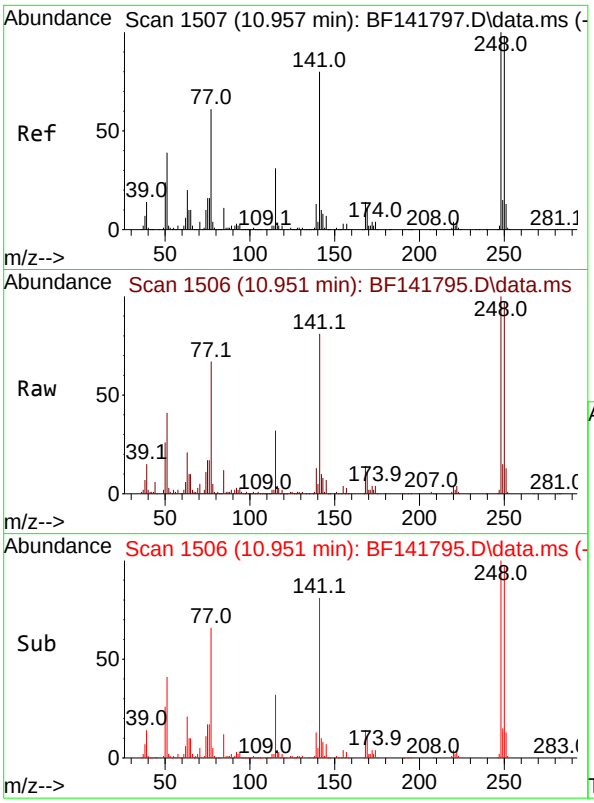


#66
n-Nitrosodiphenylamine
Concen: 10.369 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:169 Resp: 374119

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.0	79.6
167	36.1	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 10.165 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

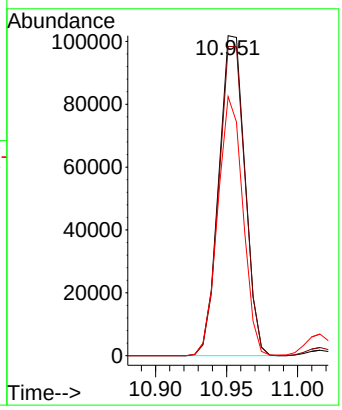
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

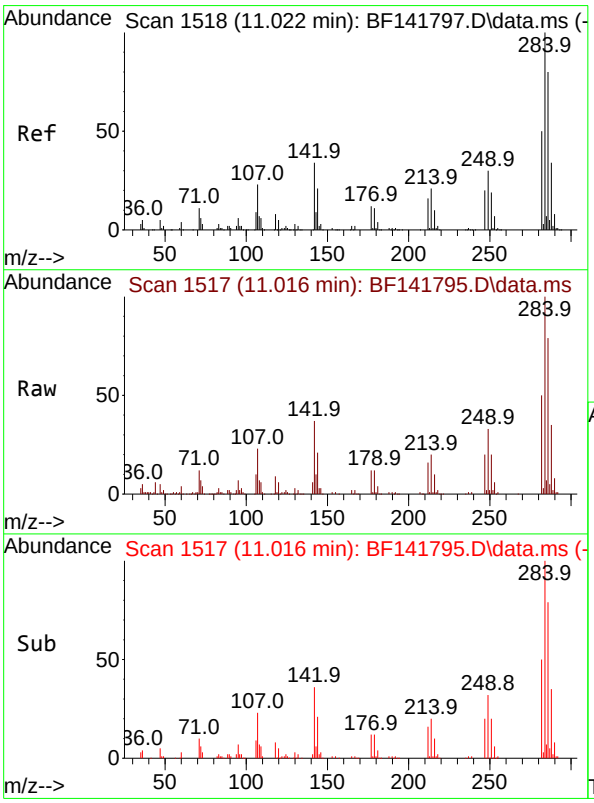
Tgt Ion:248 Resp: 13046

Ion	Ratio	Lower	Upper
248	100		
250	96.6	78.1	117.1
141	81.0	64.3	96.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

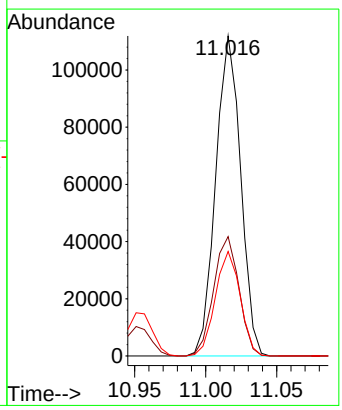


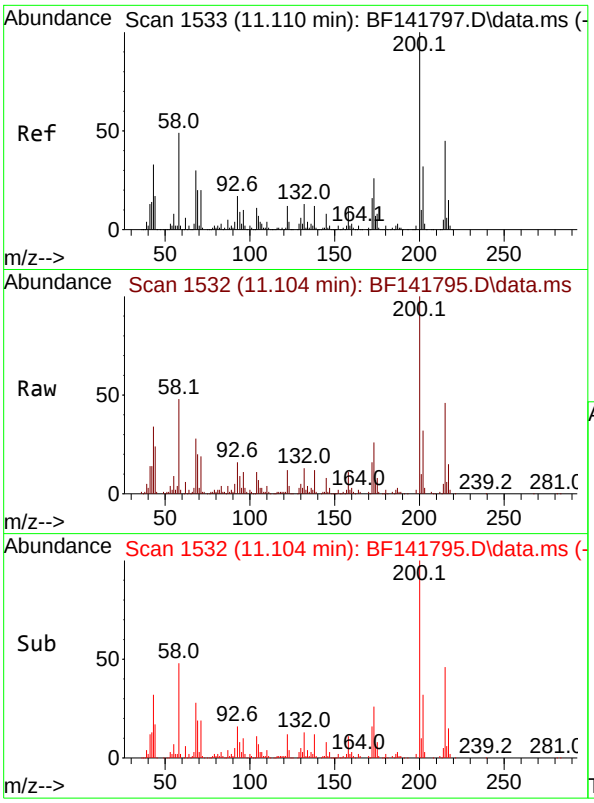


#68
Hexachlorobenzene
Concen: 10.081 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:284 Resp: 136626

Ion	Ratio	Lower	Upper
284	100		
142	37.3	28.2	42.2
249	32.7	25.5	38.3

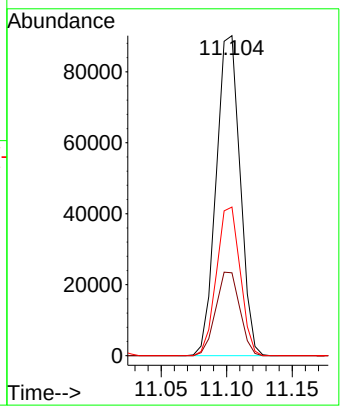




#69
Atrazine
Concen: 11.517 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:200 Resp: 11427

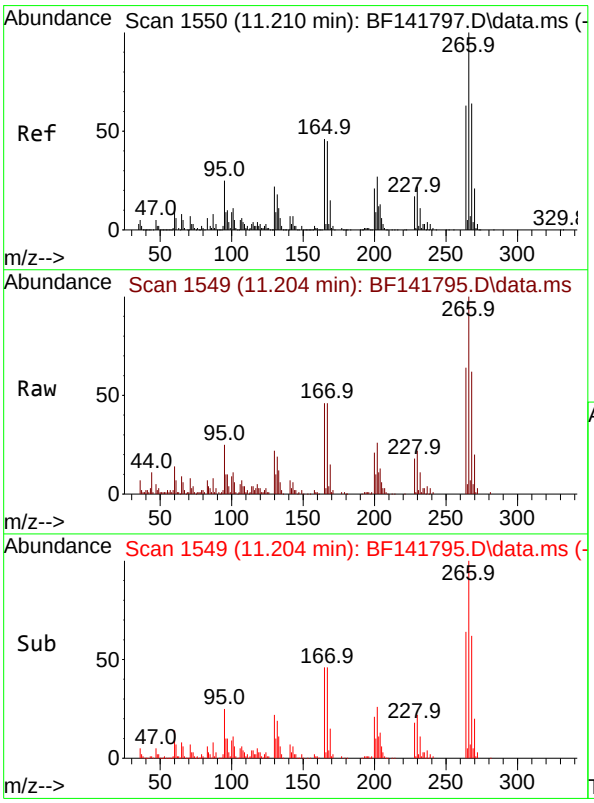
Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.6	45.6
215	46.5	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

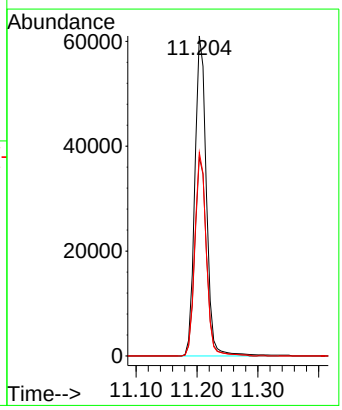
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

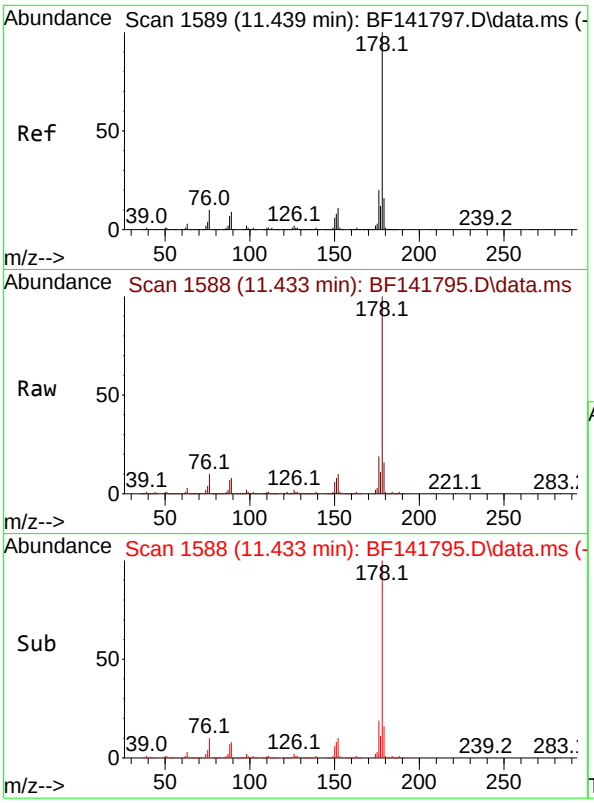


#70
Pentachlorophenol
Concen: 9.334 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:266 Resp: 80231

Ion	Ratio	Lower	Upper
266	100		
268	62.2	50.9	76.3
264	63.6	50.2	75.4

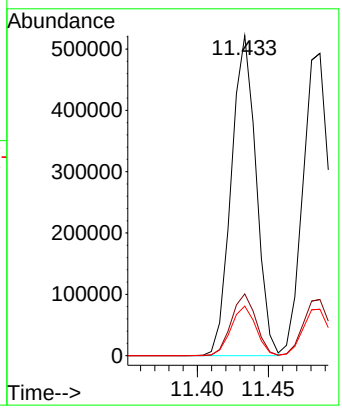




#71
Phenanthrene
Concen: 10.764 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 63269

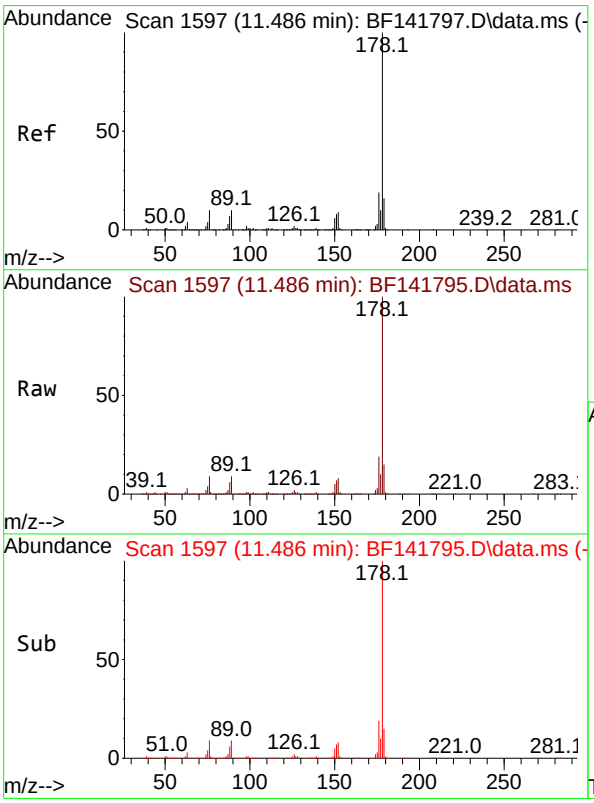
Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.0	24.0
179	15.5	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

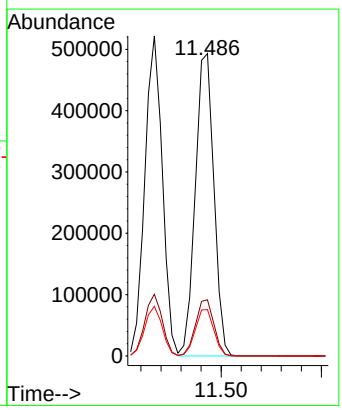
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

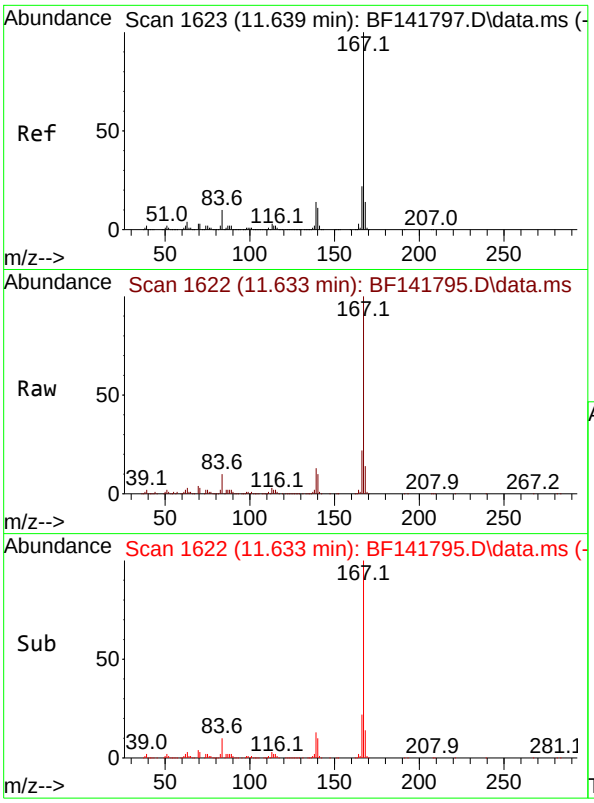


#72
Anthracene
Concen: 10.785 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 635314

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.4	23.0
179	15.4	12.8	19.2

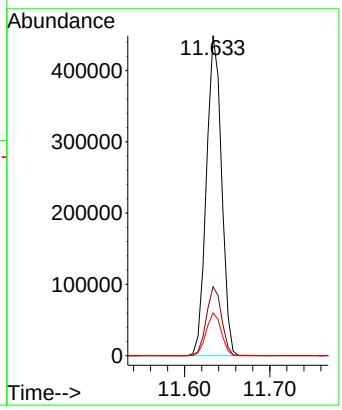




#73
Carbazole
Concen: 10.667 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:167 Resp: 55490

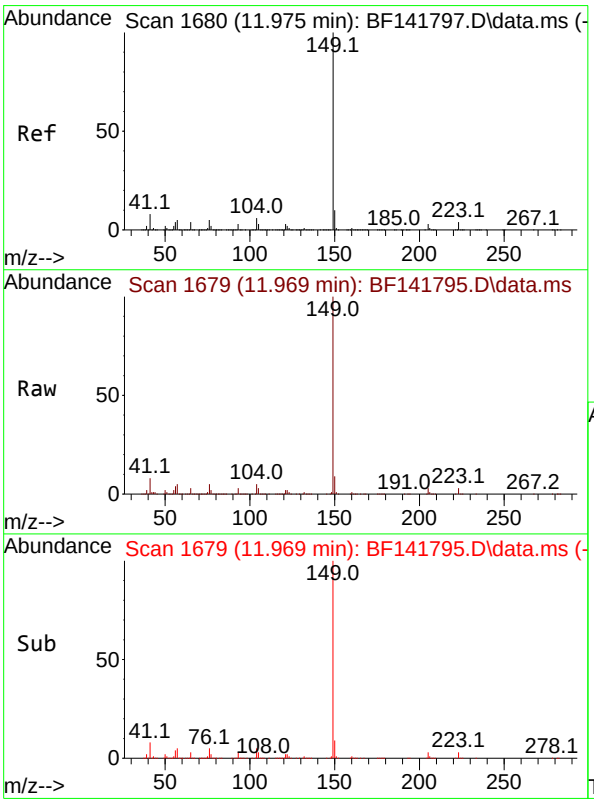
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.5	26.3
139	13.3	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

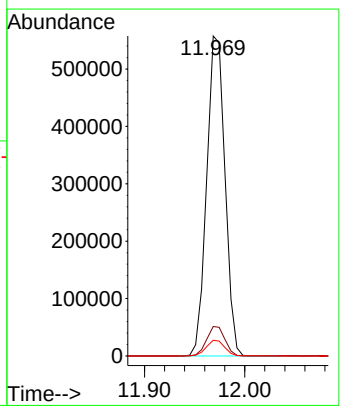
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

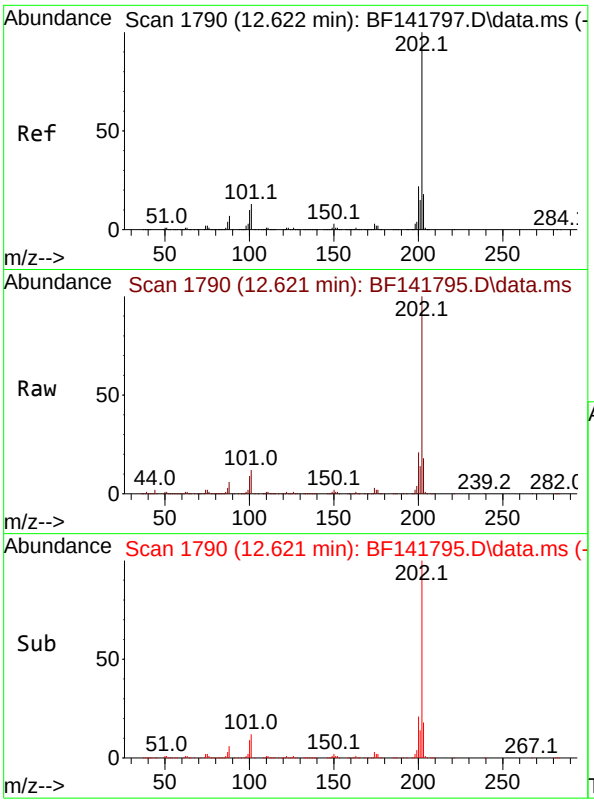


#74
Di-n-butylphthalate
Concen: 10.756 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 709254

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.7	11.5
104	4.9	4.4	6.6

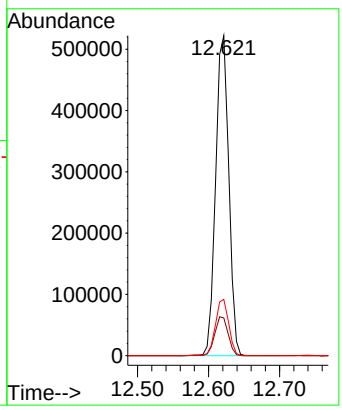




#75
Fluoranthene
Concen: 11.098 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 66837

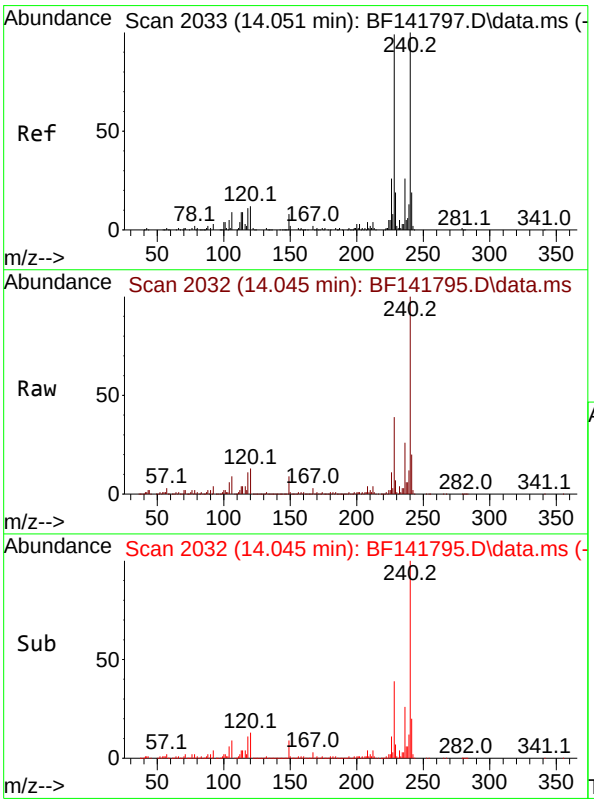
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.8
203	17.6	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

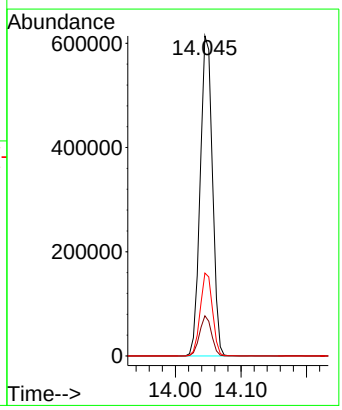
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

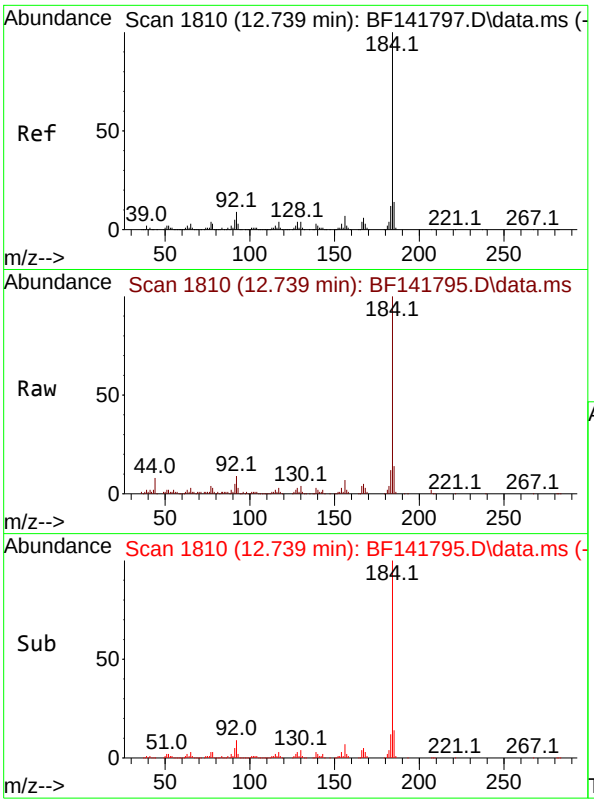


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:240 Resp: 800194

Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.7	14.5
236	25.9	21.0	31.4

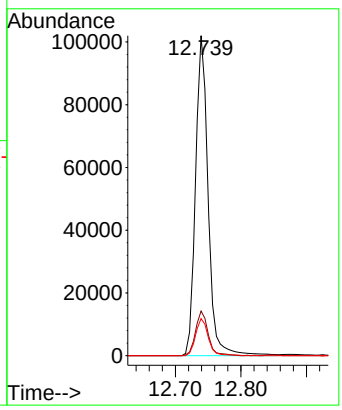




#77
Benzidine
Concen: 13.588 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 13685

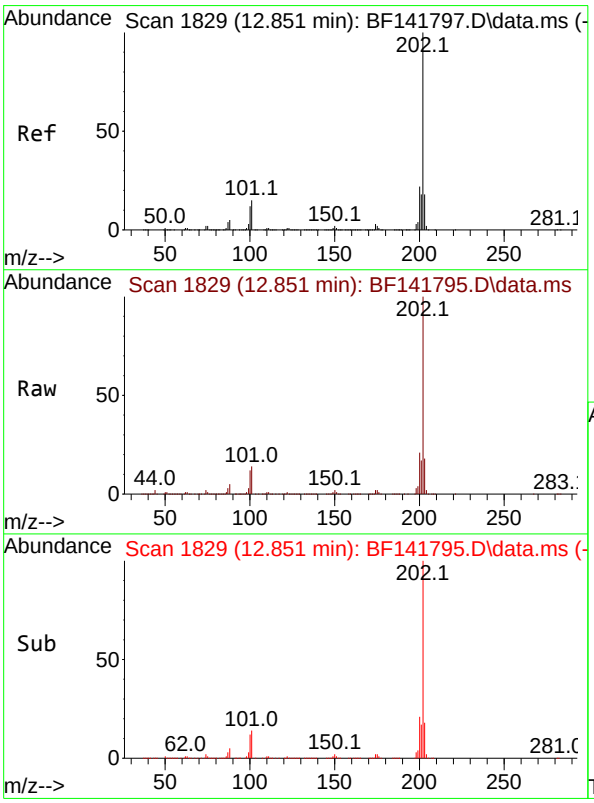
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.6	17.4
183	11.6	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

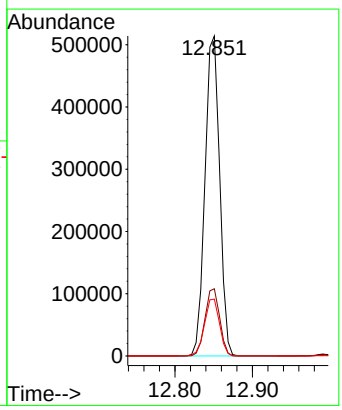
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

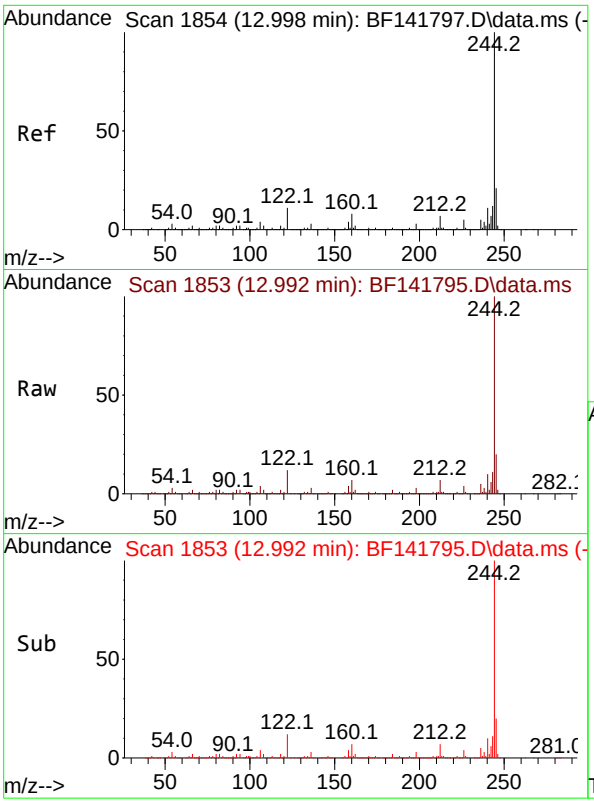


#78
Pyrene
Concen: 9.740 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 674877

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.4	26.0
203	17.7	14.6	22.0

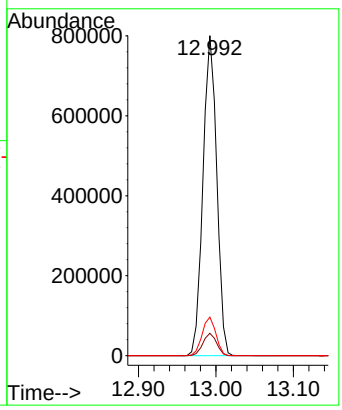




#79
Terphenyl-d14
Concen: 19.952 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:244 Resp: 98678

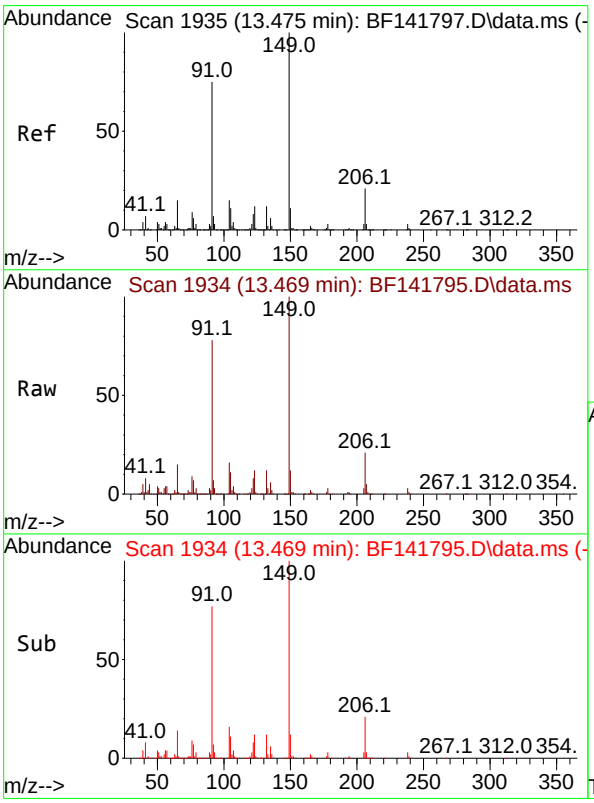
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	12.1	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

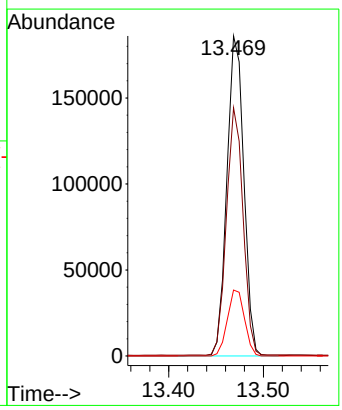
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

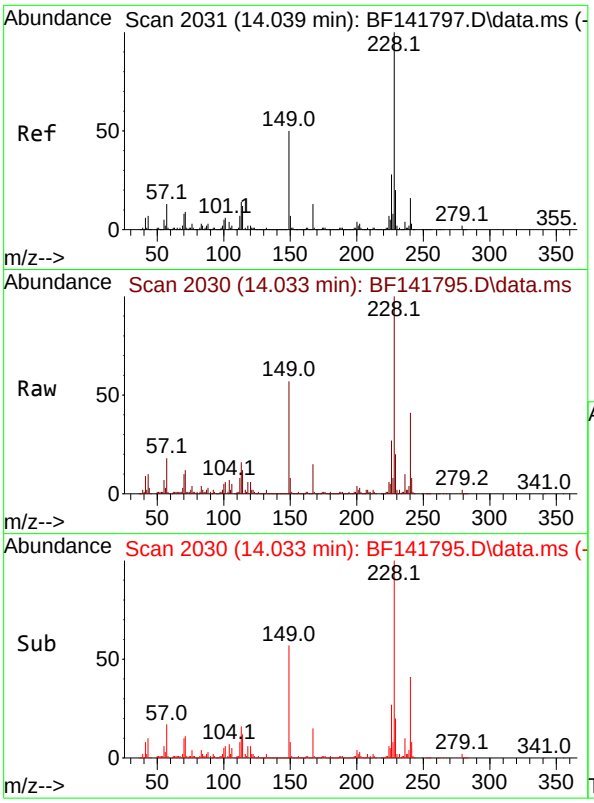


#80
Butylbenzylphthalate
Concen: 9.194 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 231474

Ion	Ratio	Lower	Upper
149	100		
91	77.5	60.1	90.1
206	20.6	16.8	25.2





#81
Benzo(a)anthracene
Concen: 10.496 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

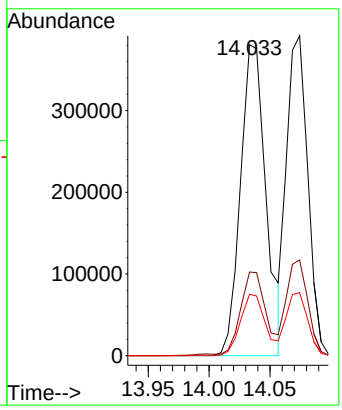
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

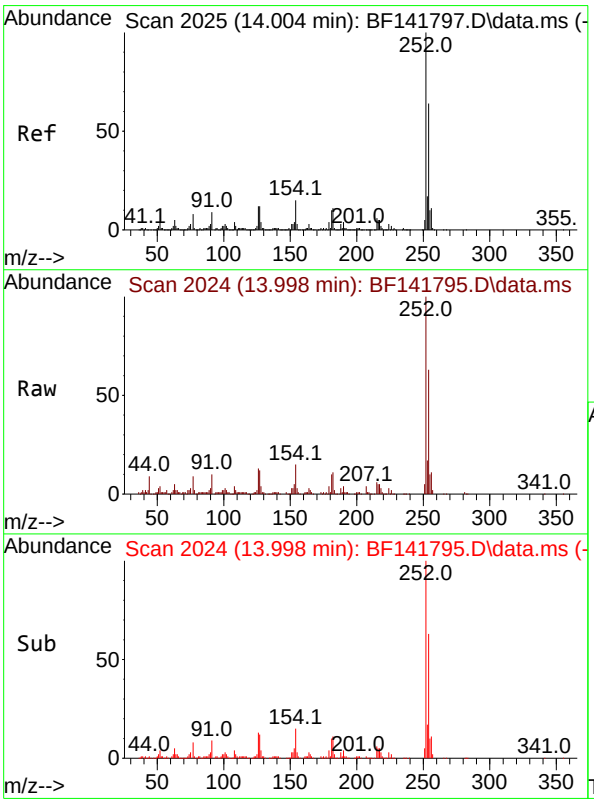
Tgt Ion:228 Resp: 55477

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.1	33.1
229	19.8	16.1	24.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

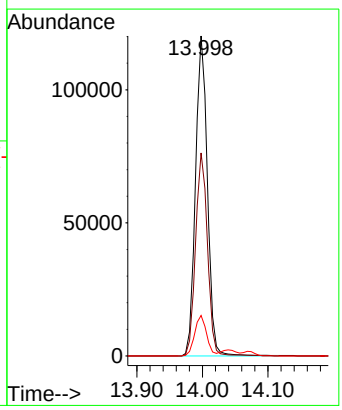


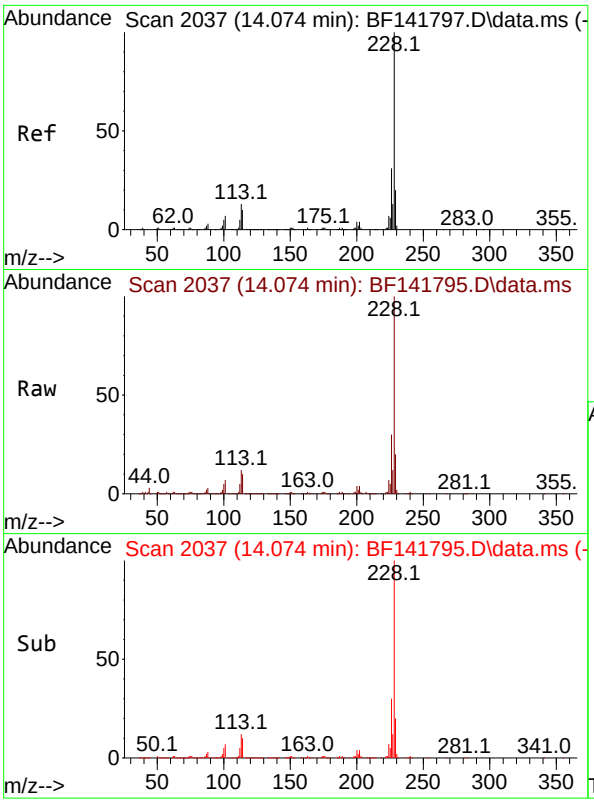


#82
3,3'-Dichlorobenzidine
Concen: 10.033 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 152147

Ion	Ratio	Lower	Upper
252	100		
254	63.5	51.4	77.0
126	12.7	9.8	14.6

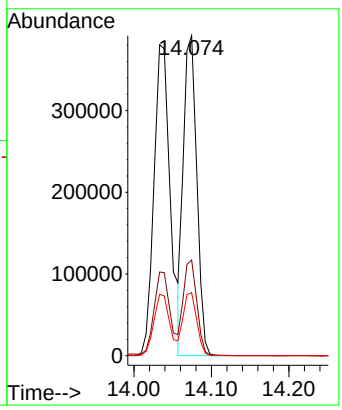




#83
Chrysene
Concen: 9.721 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:228 Resp: 47361

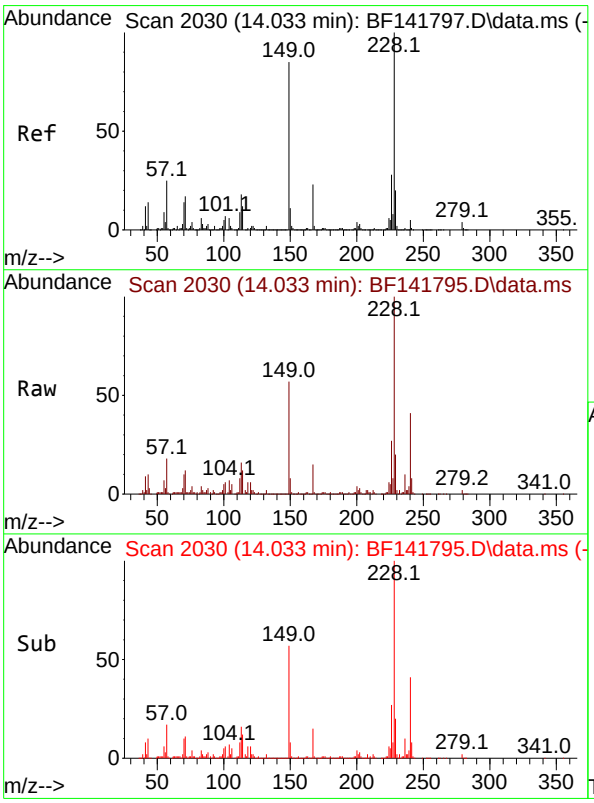
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	19.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

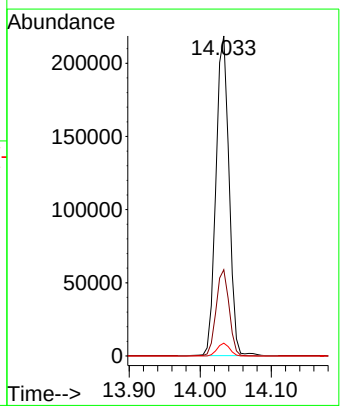
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

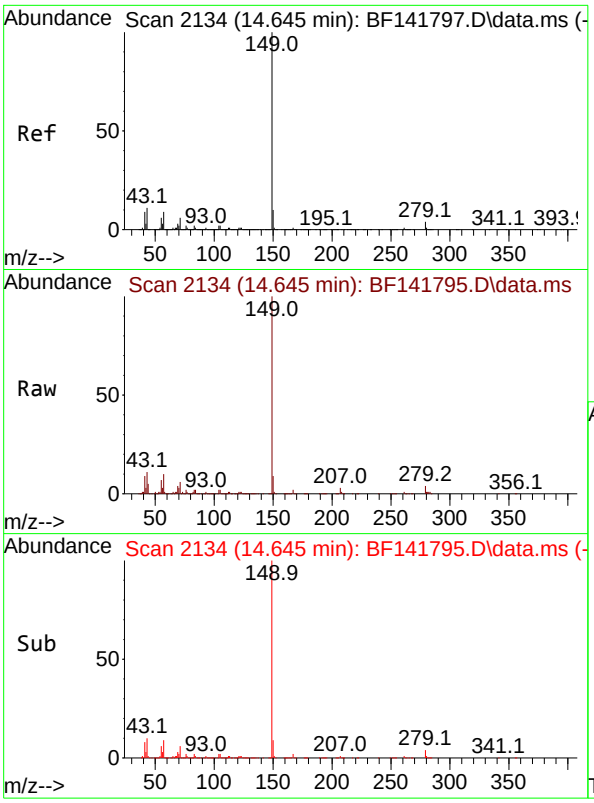


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.884 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:149 Resp: 278482

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.2	31.8
279	4.0	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 7.857 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

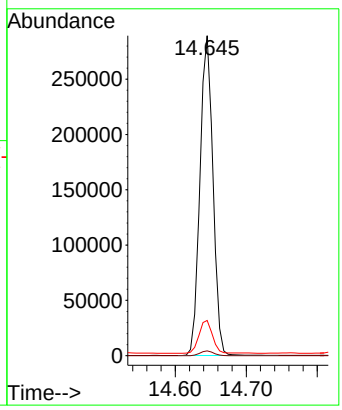
Tgt Ion:149 Resp: 36871

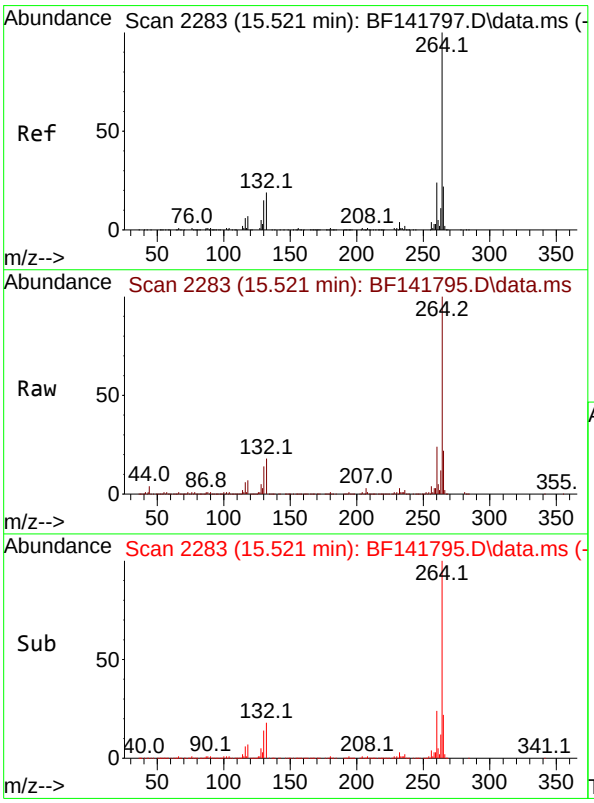
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.8	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

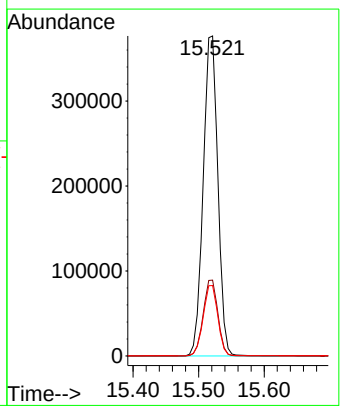


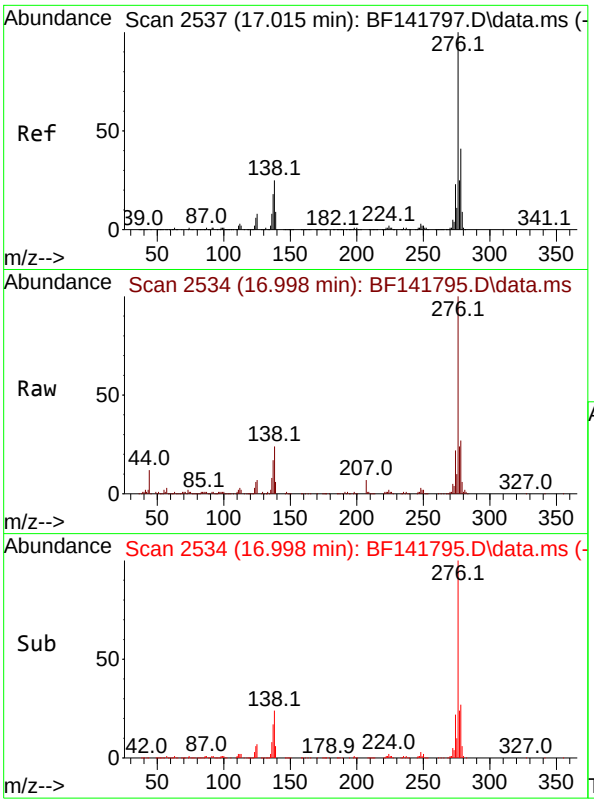


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:264 Resp: 586419

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	22.0	17.4	26.0

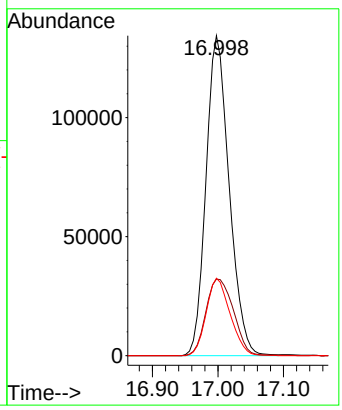




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.838 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 33001

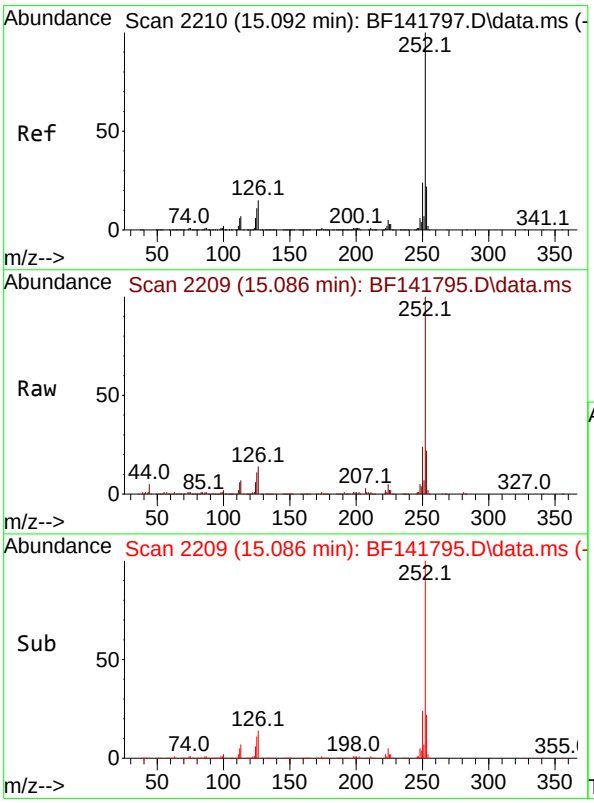
Ion	Ratio	Lower	Upper
276	100		
138	28.6	22.5	33.7
277	25.0	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

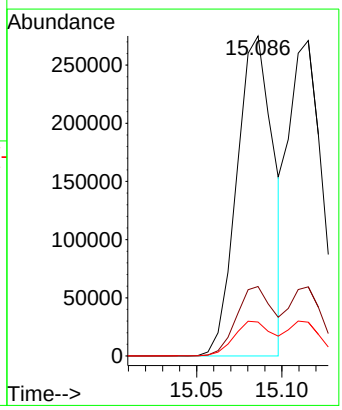
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

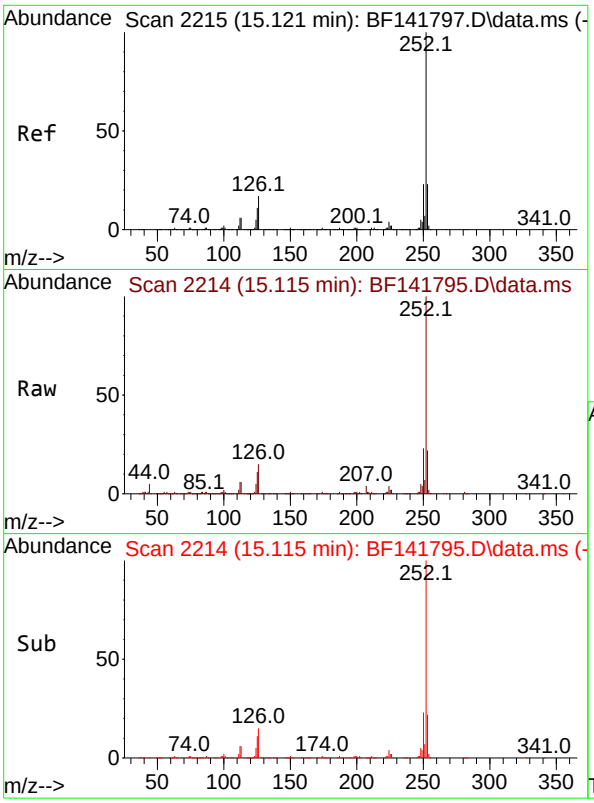


#88
Benzo(b)fluoranthene
Concen: 10.250 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 409420

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	10.6	8.6	13.0

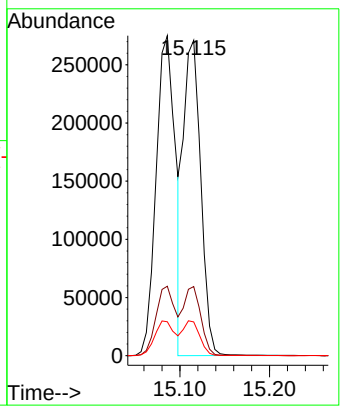




#89
Benzo(k)fluoranthene
Concen: 10.707 ng
RT: 15.115 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 36351

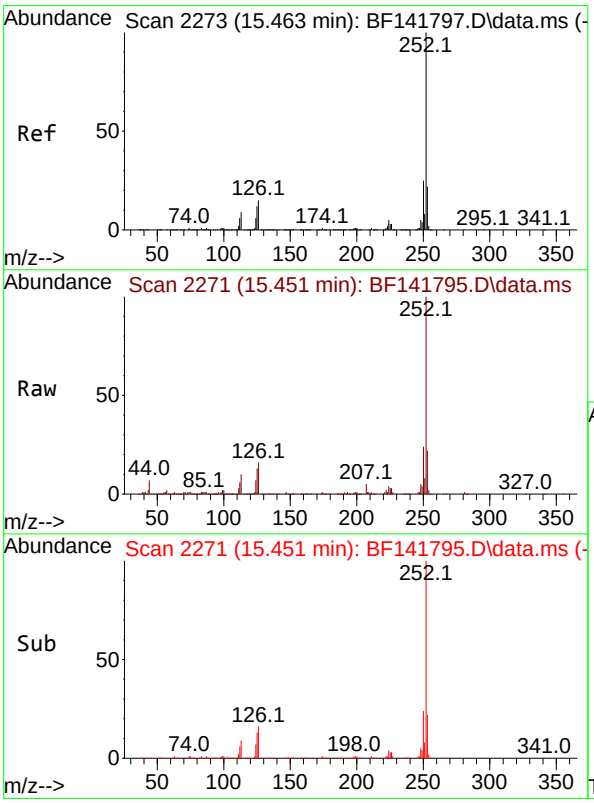
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	10.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

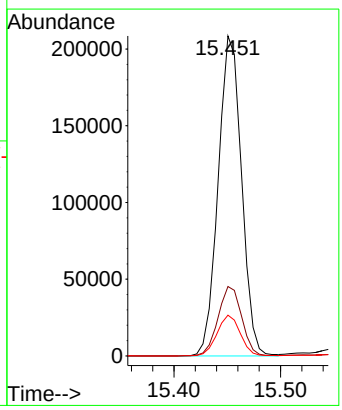
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

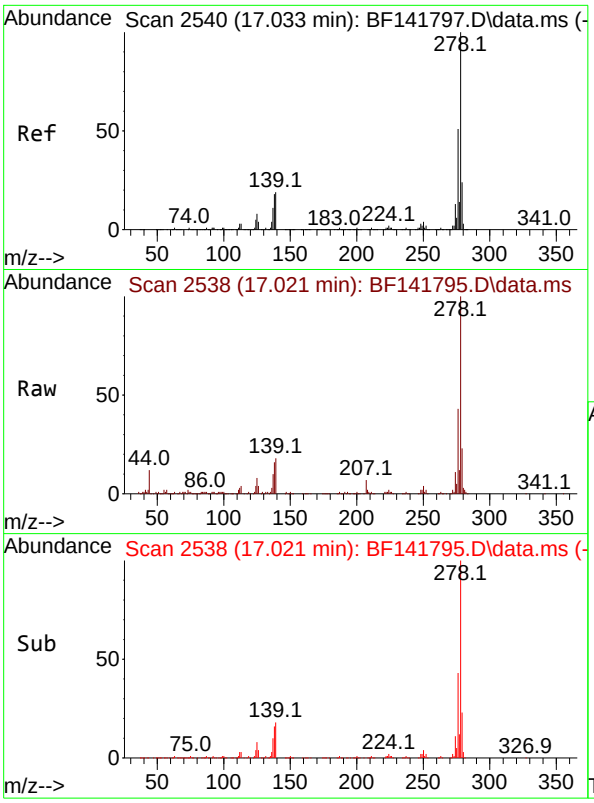


#90
Benzo(a)pyrene
Concen: 9.913 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 317564

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	12.8	9.4	14.2

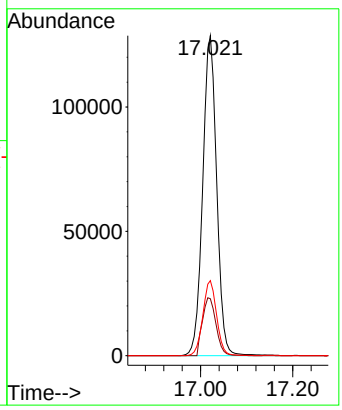




#91
Dibenzo(a,h)anthracene
Concen: 8.954 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:278 Resp: 27291

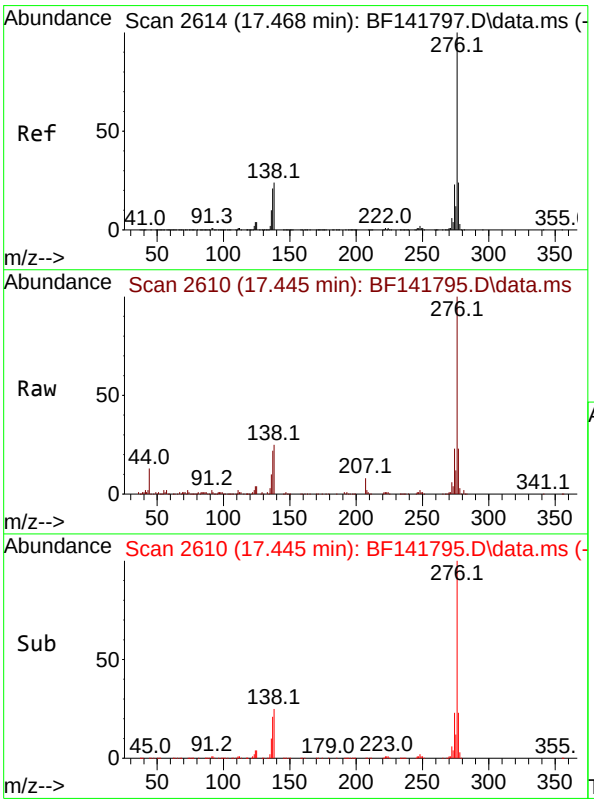
Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.9	22.3
279	23.4	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

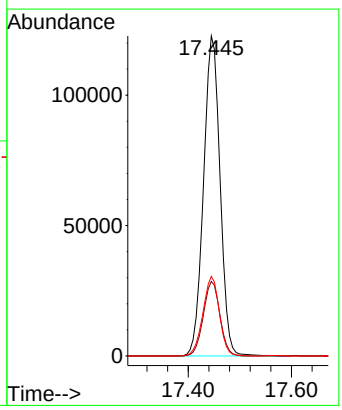
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 8.724 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 272428

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.4	29.0
138	24.9	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	282585	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	1143337	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	626338	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1041715	20.000	ng		0.00
76) Chrysene-d12	14.045	240	688606	20.000	ng		0.00
86) Perylene-d12	15.521	264	539147	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	749674	42.367	ng		0.00
7) Phenol-d6	6.498	99	976719	42.408	ng		-0.01
23) Nitrobenzene-d5	7.445	82	726034	40.590	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	235147	39.990	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1686318	43.170	ng		0.00
79) Terphenyl-d14	12.992	244	1785806	41.959	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	162630	20.255	ng		100
3) Pyridine	3.446	79	419991	21.024	ng		99
4) n-Nitrosodimethylamine	3.387	42	194836	20.270	ng		99
6) Aniline	6.551	93	510018	21.416	ng		99
8) 2-Chlorophenol	6.669	128	406583	21.241	ng		99
9) Benzaldehyde	6.440	77	289246	21.590	ng		99
10) Phenol	6.516	94	527399m	21.493	ng		
11) bis(2-Chloroethyl)ether	6.622	93	393290	20.964	ng		99
12) 1,3-Dichlorobenzene	6.828	146	435544	21.247	ng		99
13) 1,4-Dichlorobenzene	6.904	146	437770	21.195	ng		100
14) 1,2-Dichlorobenzene	7.057	146	416995	21.620	ng		99
15) Benzyl Alcohol	7.022	79	388176	21.089	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	607289	21.316	ng		99
17) 2-Methylphenol	7.128	107	329265	20.839	ng		99
18) Hexachloroethane	7.404	117	162363	21.002	ng		98
19) n-Nitroso-di-n-propyla...	7.293	70	316487	20.904	ng		99
20) 3+4-Methylphenols	7.281	107	425612	21.633	ng		98
22) Acetophenone	7.293	105	585913	21.041	ng	#	97
24) Nitrobenzene	7.463	77	395521	20.649	ng		97
25) Isophorone	7.704	82	789349	20.541	ng		99
26) 2-Nitrophenol	7.781	139	132844	18.604	ng		98
27) 2,4-Dimethylphenol	7.810	122	292966	20.740	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	513944	20.966	ng		99
29) 2,4-Dichlorophenol	8.016	162	338122	20.749	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	374188	20.955	ng		99
31) Naphthalene	8.192	128	1258082	21.409	ng		99
32) Benzoic acid	7.898	122	165613	19.487	ng		98
33) 4-Chloroaniline	8.234	127	454568	21.097	ng		100
34) Hexachlorobutadiene	8.310	225	230541	20.776	ng		98
35) Caprolactam	8.587	113	102898	20.521	ng		99
36) 4-Chloro-3-methylphenol	8.704	107	376094	20.776	ng		99
37) 2-Methylnaphthalene	8.881	142	826497	21.443	ng		99
38) 1-Methylnaphthalene	8.981	142	796808	21.545	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	377360	20.861	ng		99
41) Hexachlorocyclopentadiene	9.034	237	158105	20.943	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	238591	20.419	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	242709	20.976	ng		99
46) 1,1'-Biphenyl	9.345	154	1021081	21.418	ng		99
47) 2-Chloronaphthalene	9.369	162	752142	21.375	ng		99
48) 2-Nitroaniline	9.457	65	153869	18.870	ng		97
49) Acenaphthylene	9.786	152	1126303	21.349	ng		99
50) Dimethylphthalate	9.645	163	879870	20.977	ng		100
51) 2,6-Dinitrotoluene	9.704	165	144673	19.796	ng		98
52) Acenaphthene	9.957	154	749963	21.068	ng		99
53) 3-Nitroaniline	9.869	138	152114	19.664	ng	#	99
54) 2,4-Dinitrophenol	9.969	184	41521	19.116	ng	#	1
55) Dibenzofuran	10.128	168	1105278	21.332	ng		99
56) 4-Nitrophenol	10.010	139	123415	19.922	ng		98
57) 2,4-Dinitrotoluene	10.104	165	165949	19.214	ng		98
58) Fluorene	10.469	166	822264	21.187	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	210339	20.902	ng		99
60) Diethylphthalate	10.345	149	894118	21.264	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	409697	21.069	ng		99
62) 4-Nitroaniline	10.481	138	143482	20.031	ng		98
63) Azobenzene	10.622	77	942499	21.288	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	65163	19.161	ng		97
66) n-Nitrosodiphenylamine	10.581	169	717531	20.977	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	248503	20.423	ng		98
68) Hexachlorobenzene	11.016	284	265367	20.653	ng		97
69) Atrazine	11.104	200	203939	21.680	ng		99
70) Pentachlorophenol	11.210	266	167231	20.521	ng		99
71) Phenanthrene	11.433	178	1181769	21.209	ng		99
72) Anthracene	11.486	178	1203701	21.554	ng		99
73) Carbazole	11.639	167	1056147	21.416	ng		99
74) Di-n-butylphthalate	11.975	149	1345098	21.518	ng		99
75) Fluoranthene	12.622	202	1242031	21.753	ng		99
77) Benzidine	12.739	184	136521	15.752	ng		99
78) Pyrene	12.851	202	1249647	20.957	ng		99
80) Butylbenzylphthalate	13.469	149	442702	20.434	ng		98
81) Benzo(a)anthracene	14.039	228	953146	20.956	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	262708	20.132	ng		100
83) Chrysene	14.074	228	850641	20.288	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	542812	20.122	ng		100
85) Di-n-octyl phthalate	14.645	149	763685	18.910	ng		100
87) Indeno(1,2,3-cd)pyrene	17.004	276	668777	19.480	ng		99
88) Benzo(b)fluoranthene	15.086	252	826369	22.501	ng		100
89) Benzo(k)fluoranthene	15.116	252	592250	18.973	ng		99
90) Benzo(a)pyrene	15.457	252	610871	20.740	ng		99
91) Dibenzo(a,h)anthracene	17.027	278	552725	19.724	ng		98
92) Benzo(g,h,i)perylene	17.451	276	557705	19.426	ng		100

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

ICAL Form

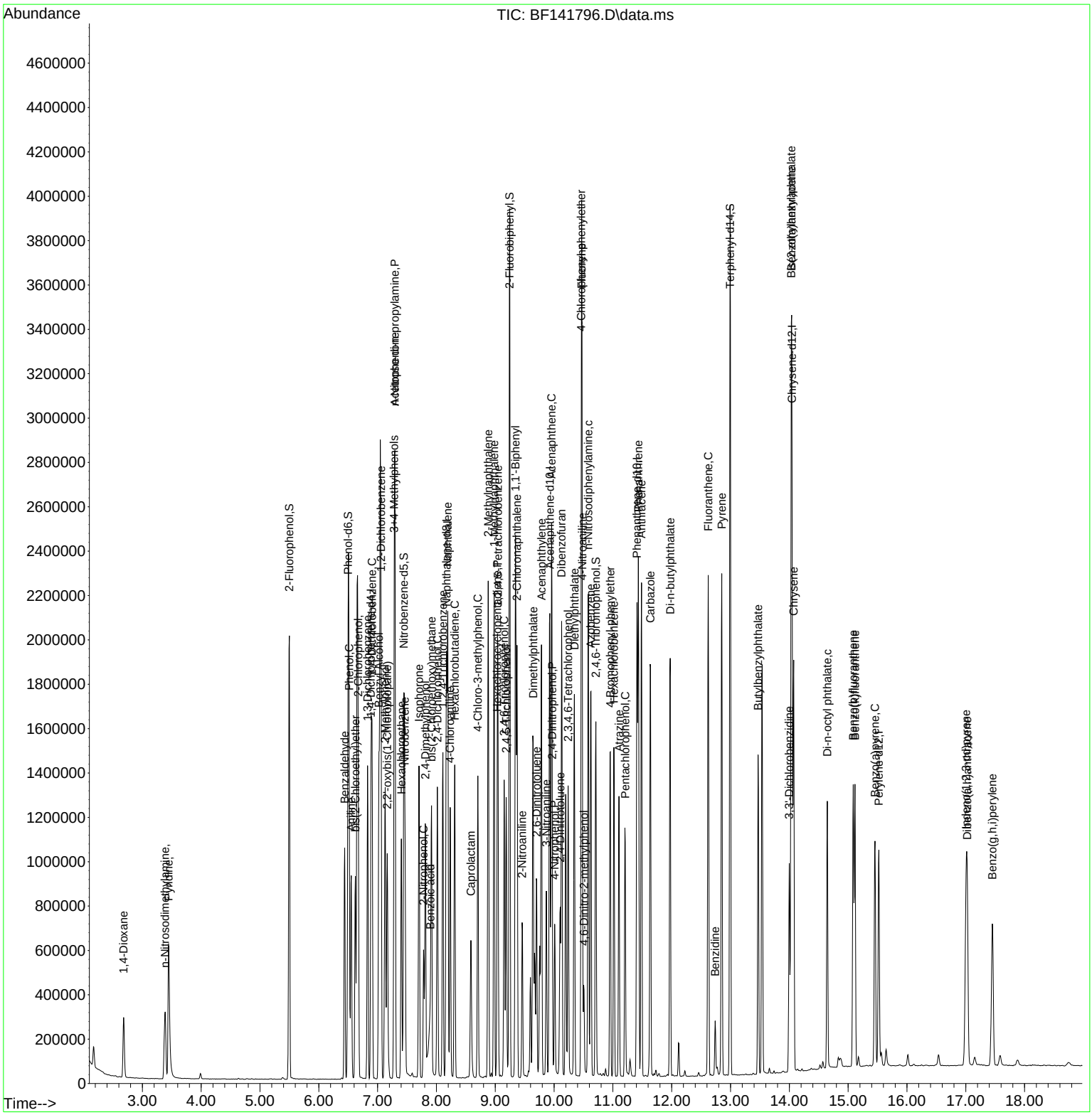
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

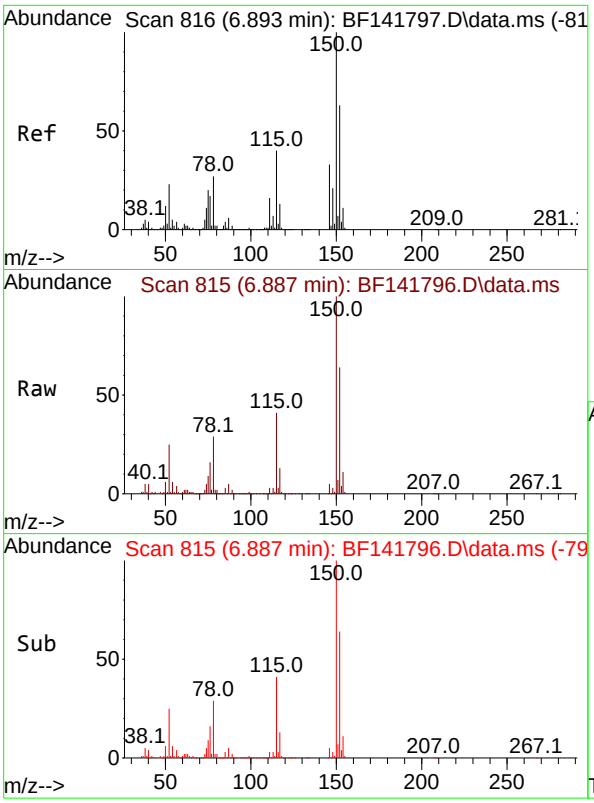
Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

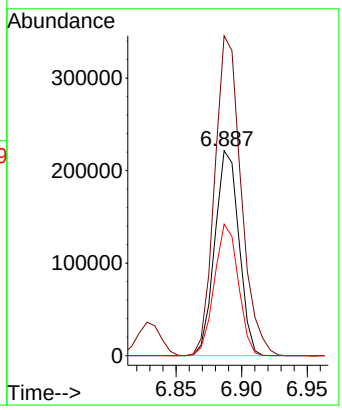




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 28258

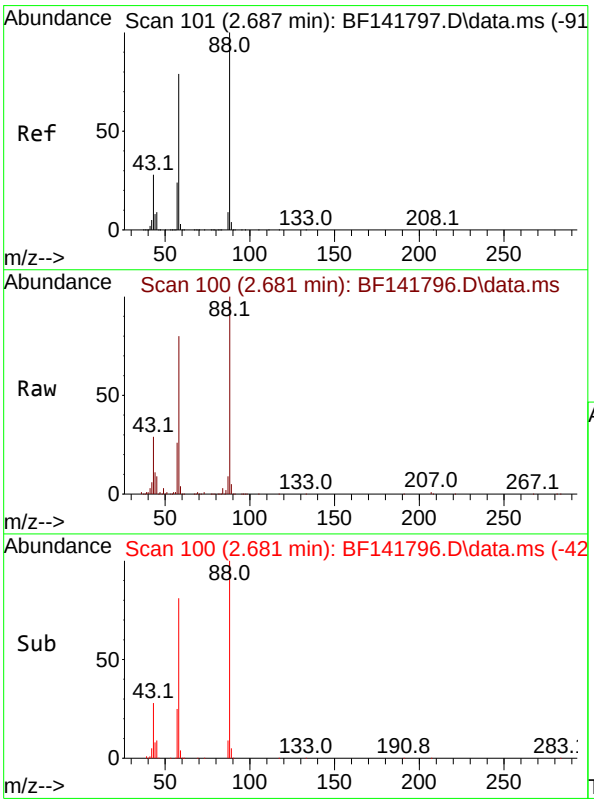
Ion	Ratio	Lower	Upper
152	100		
150	156.1	127.5	191.3
115	64.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

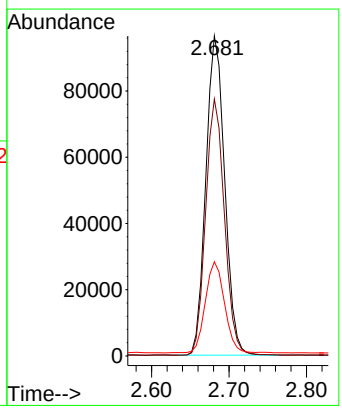
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

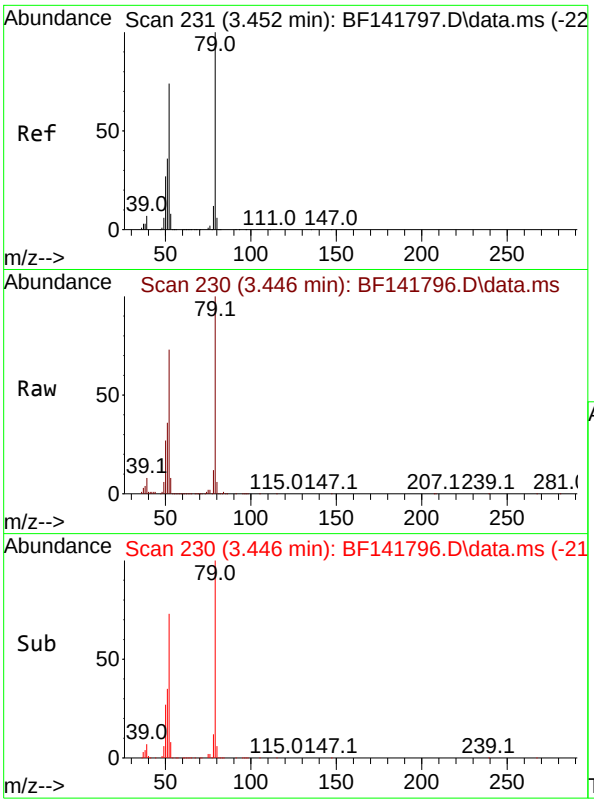


#2
1,4-Dioxane
Concen: 20.255 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 88 Resp: 162630

Ion	Ratio	Lower	Upper
88	100		
58	80.0	63.9	95.9
43	29.0	23.0	34.6

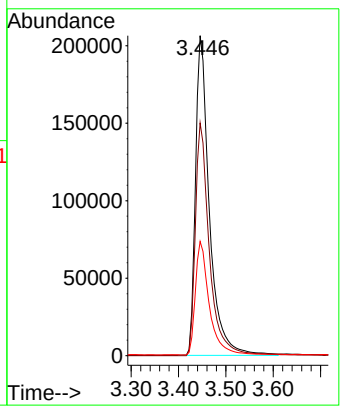




#3
Pyridine
Concen: 21.024 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 41999

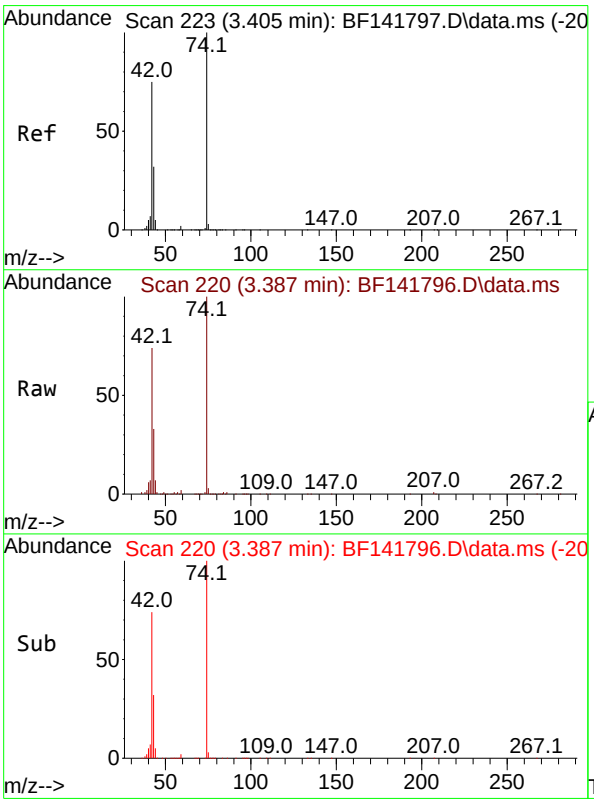
Ion	Ratio	Lower	Upper
79	100		
52	72.7	59.0	88.4
51	35.7	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

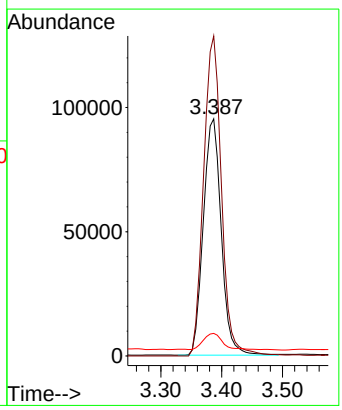
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

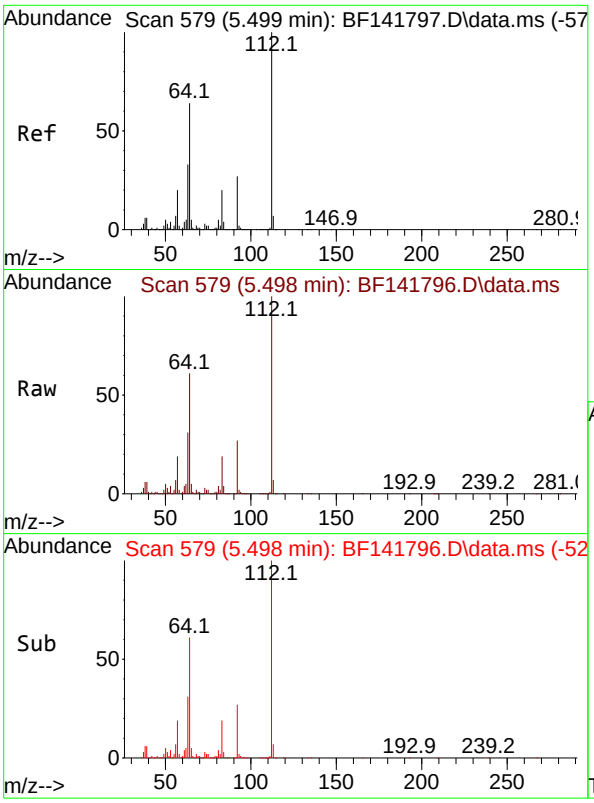


#4
n-Nitrosodimethylamine
Concen: 20.270 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 42 Resp: 194836

Ion	Ratio	Lower	Upper
42	100		
74	135.0	107.1	160.7
44	9.5	6.6	9.8

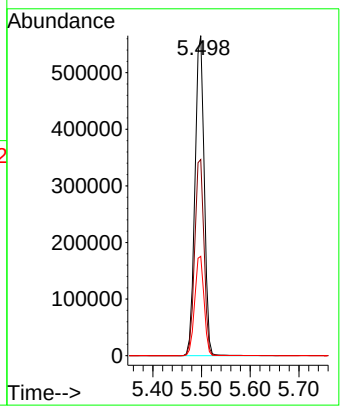




#5
2-Fluorophenol
Concen: 42.367 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:112 Resp: 74967

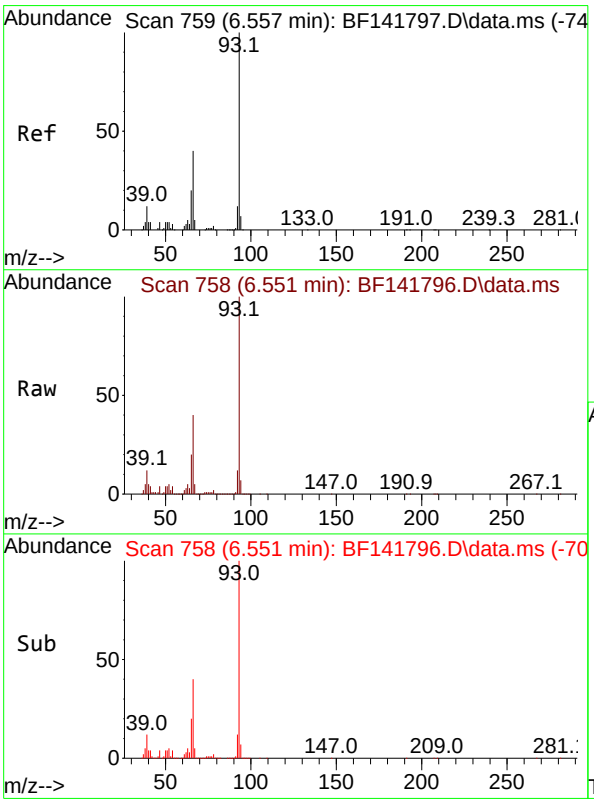
Ion	Ratio	Lower	Upper
112	100		
64	61.3	51.3	76.9
63	31.1	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

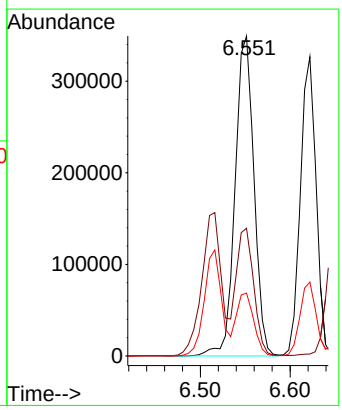
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

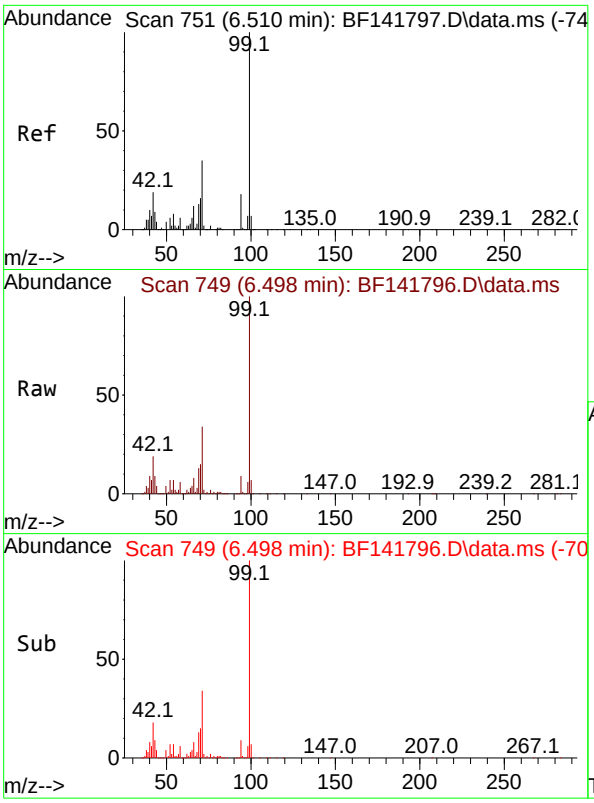


#6
Aniline
Concen: 21.416 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 510018

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.3	48.5
65	19.7	15.9	23.9

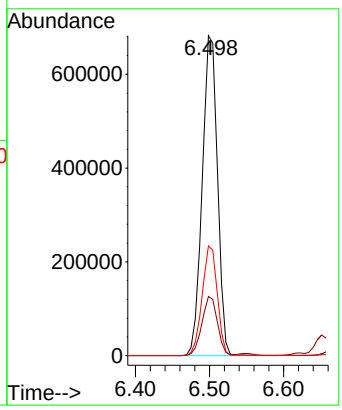




#7
Phenol-d6
Concen: 42.408 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 99 Resp: 97671

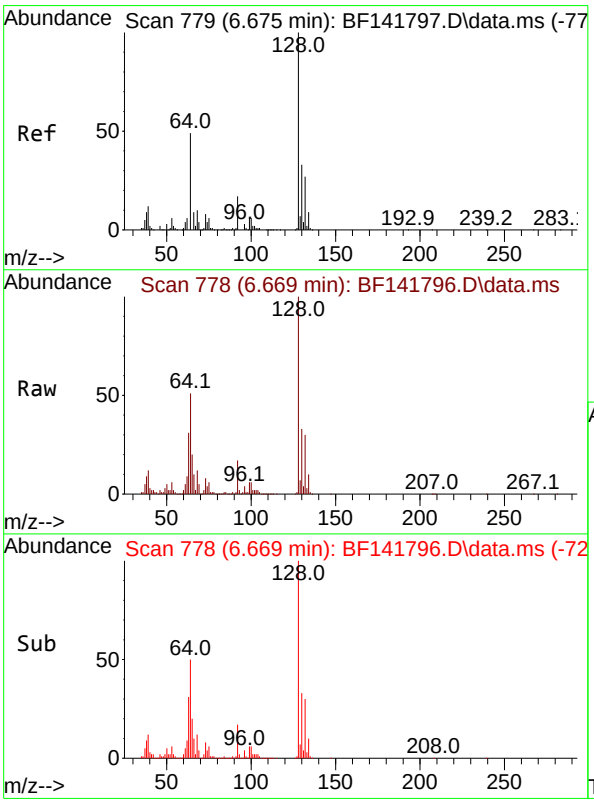
Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.2	22.8
71	34.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

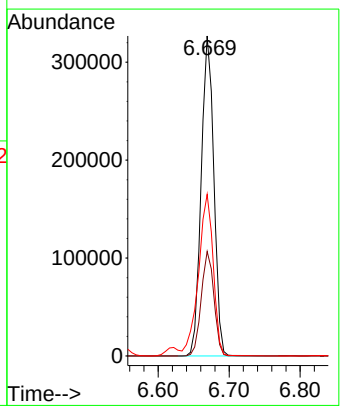
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

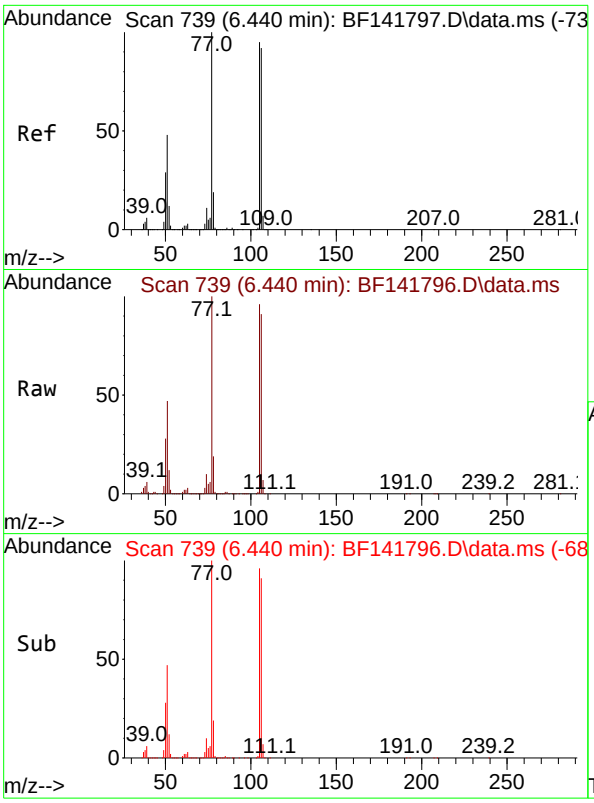


#8
2-Chlorophenol
Concen: 21.241 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 406583

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	50.5	31.1	71.1

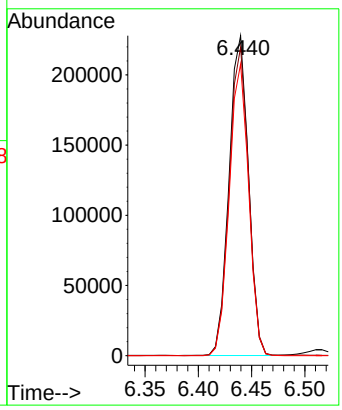




#9
Benzaldehyde
Concen: 21.590 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 28924

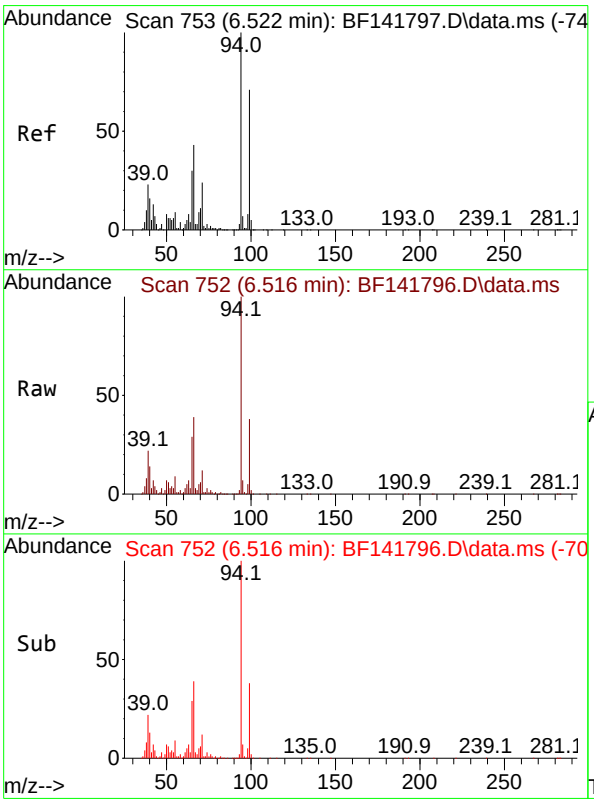
Ion	Ratio	Lower	Upper
77	100		
105	96.4	75.3	115.3
106	91.1	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

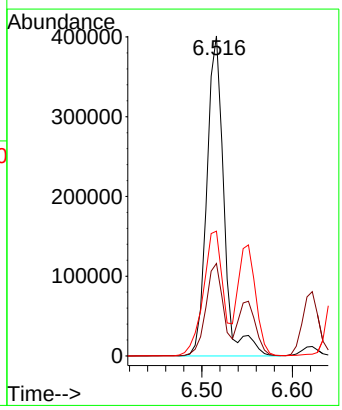
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

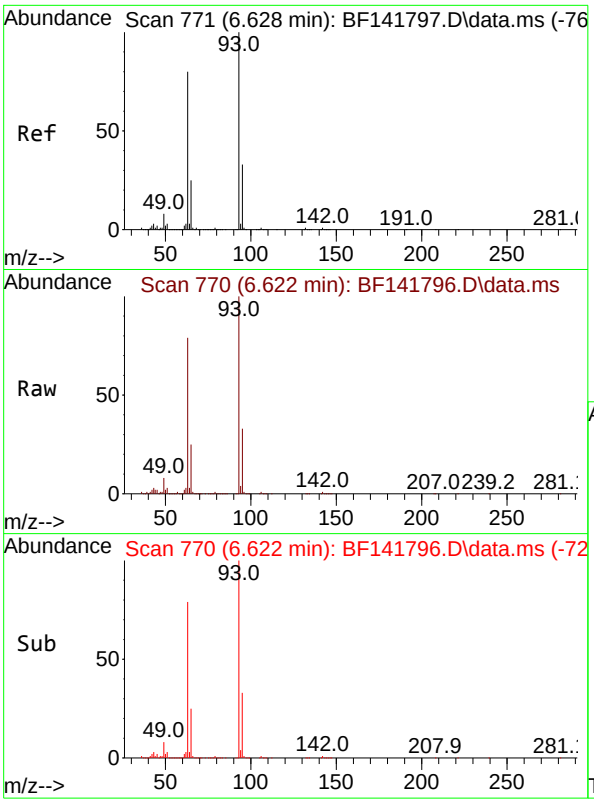


#10
Phenol
Concen: 21.493 ng m
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 94 Resp: 527399

Ion	Ratio	Lower	Upper
94	100		
65	28.9	10.2	50.2
66	39.0	23.2	63.2

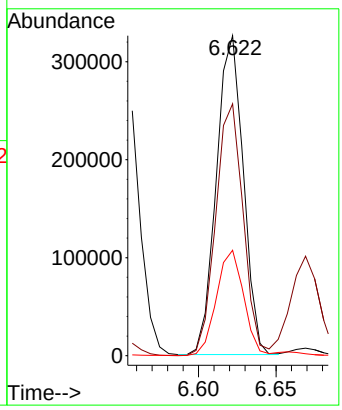




#11
bis(2-Chloroethyl)ether
Concen: 20.964 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 39329

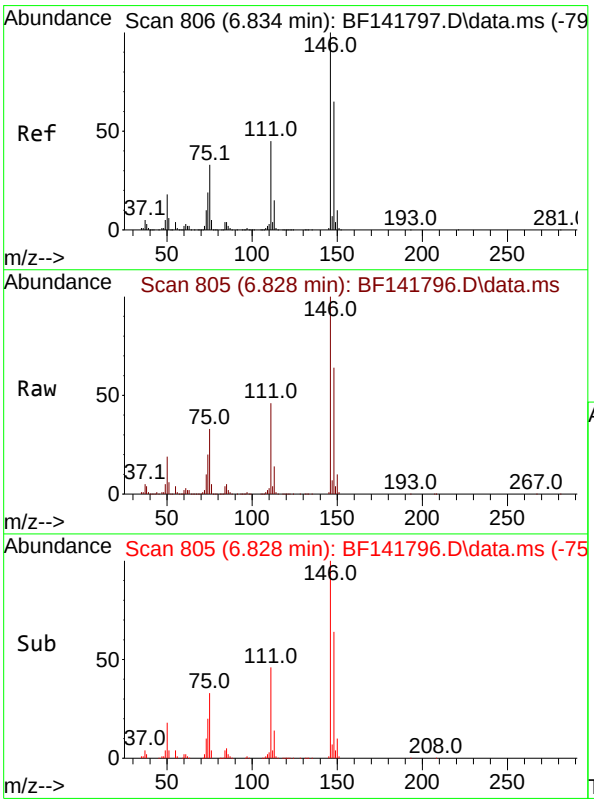
Ion	Ratio	Lower	Upper
93	100		
63	78.7	59.3	99.3
95	32.9	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

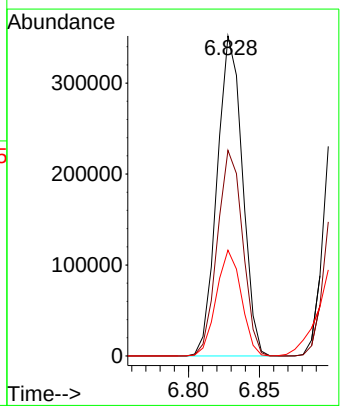
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

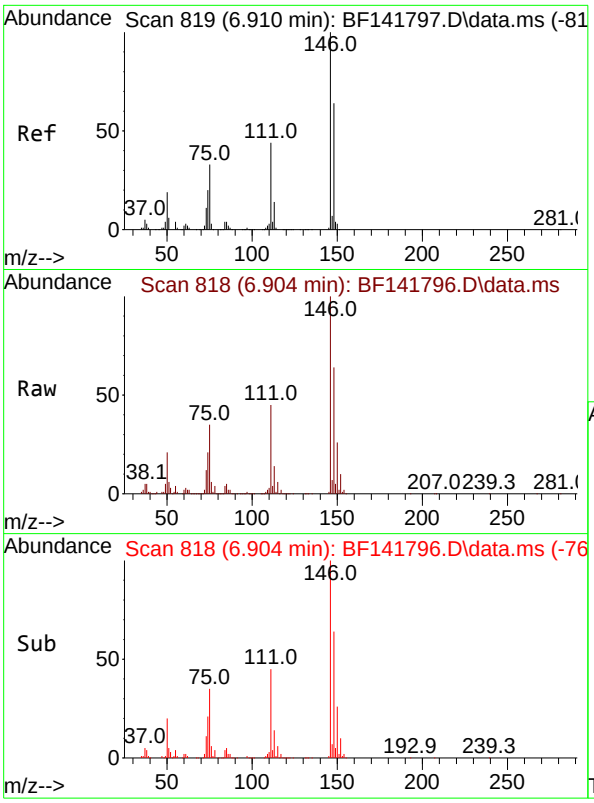


#12
1,3-Dichlorobenzene
Concen: 21.247 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 435544

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.8	77.6
75	33.0	26.2	39.4

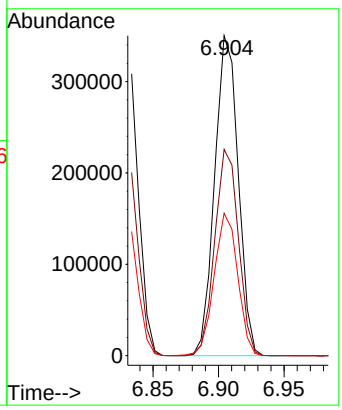




#13
1,4-Dichlorobenzene
Concen: 21.195 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 43777

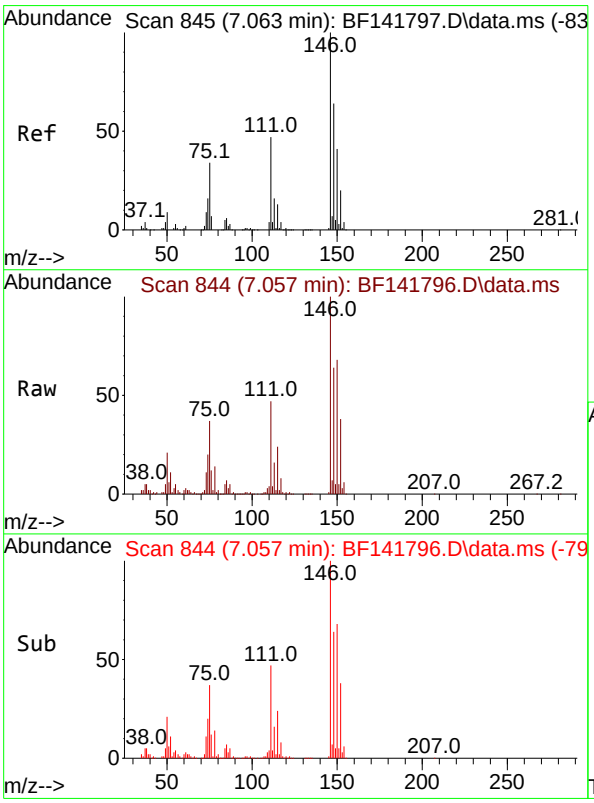
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.4	77.2
111	44.5	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

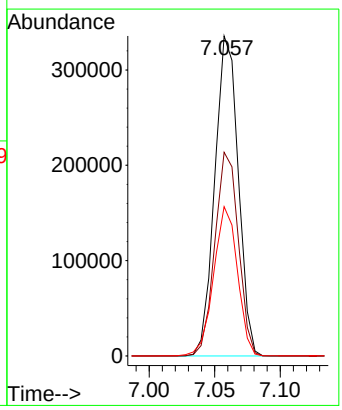
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

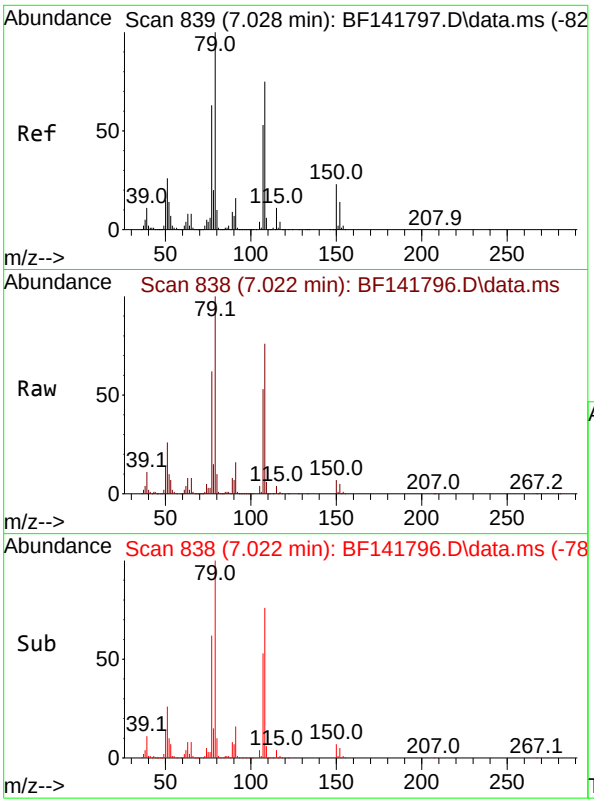


#14
1,2-Dichlorobenzene
Concen: 21.620 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 416995

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
111	46.6	37.8	56.6

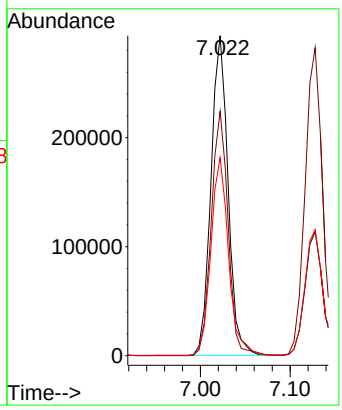




#15
Benzyl Alcohol
Concen: 21.089 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 38817

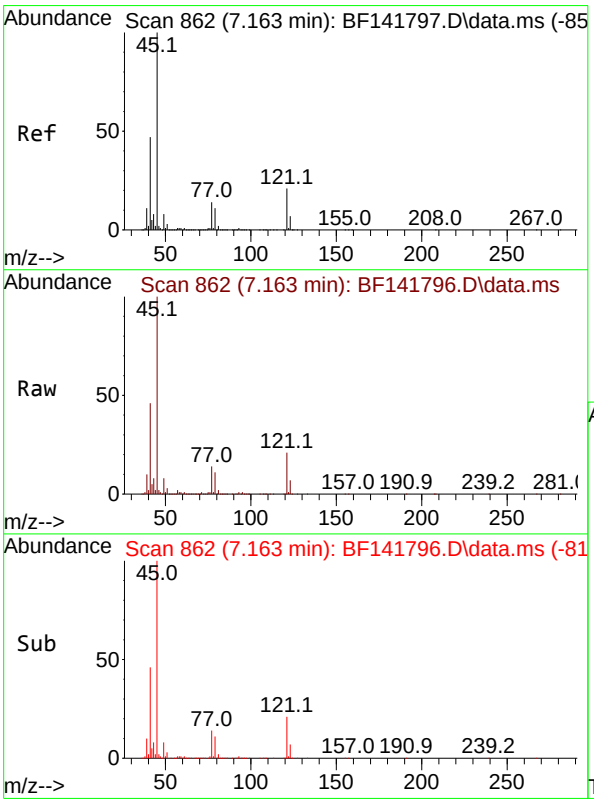
Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.2	90.2
77	61.9	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

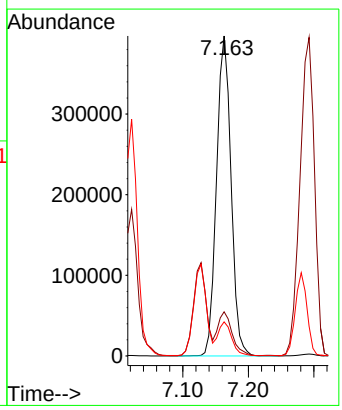
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

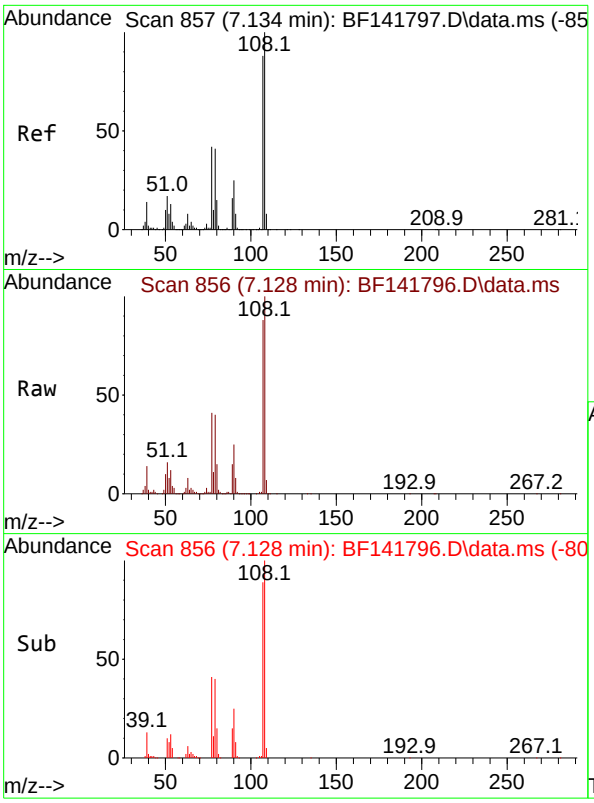


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.316 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 45 Resp: 607289

Ion	Ratio	Lower	Upper
45	100		
77	13.8	0.0	34.4
79	10.7	0.0	30.9

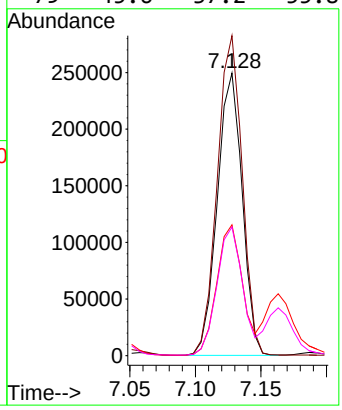




#17
2-Methylphenol
Concen: 20.839 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 32926

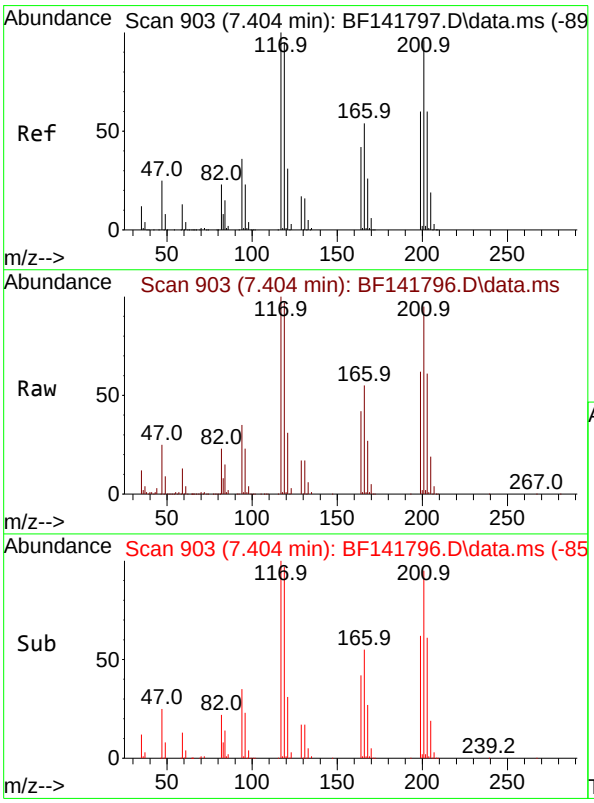
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	135.8
77	46.4	37.7	56.5
79	45.6	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

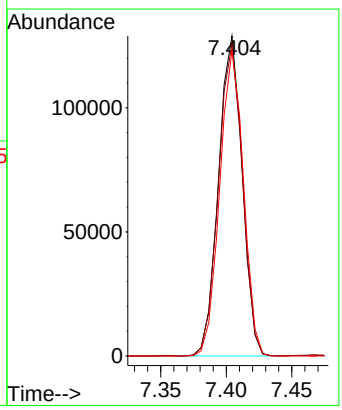
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

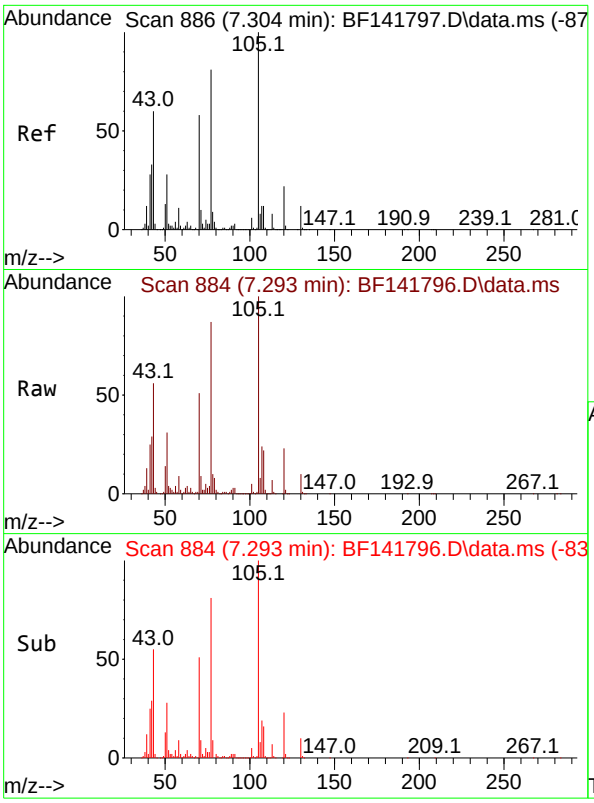


#18
Hexachloroethane
Concen: 21.002 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:117 Resp: 162363

Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.8	113.8
201	95.4	76.7	115.1

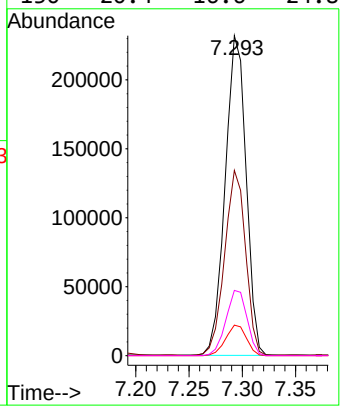




#19
n-Nitroso-di-n-propylamine
Concen: 20.904 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 70 Resp: 31648

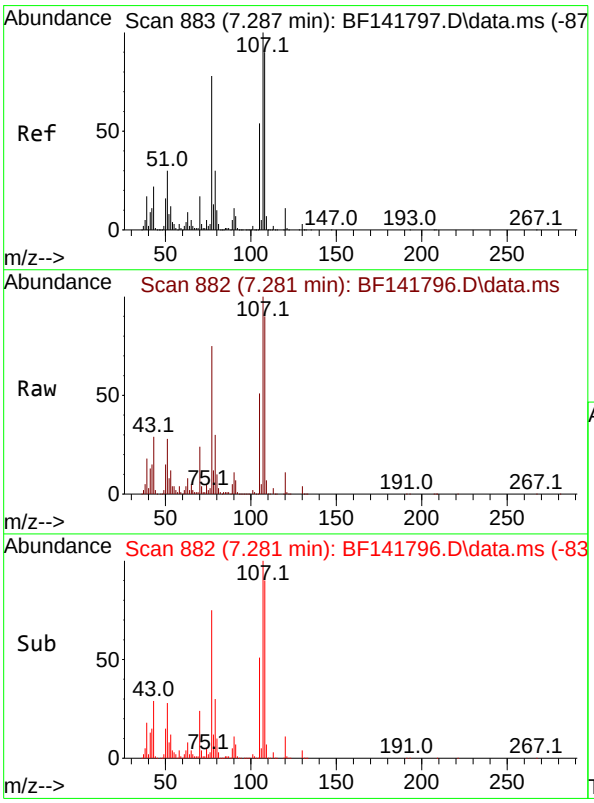
Ion	Ratio	Lower	Upper
70	100		
42	57.9	45.4	68.0
101	9.6	7.8	11.8
130	20.4	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

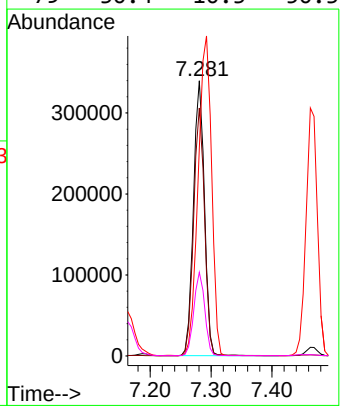
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

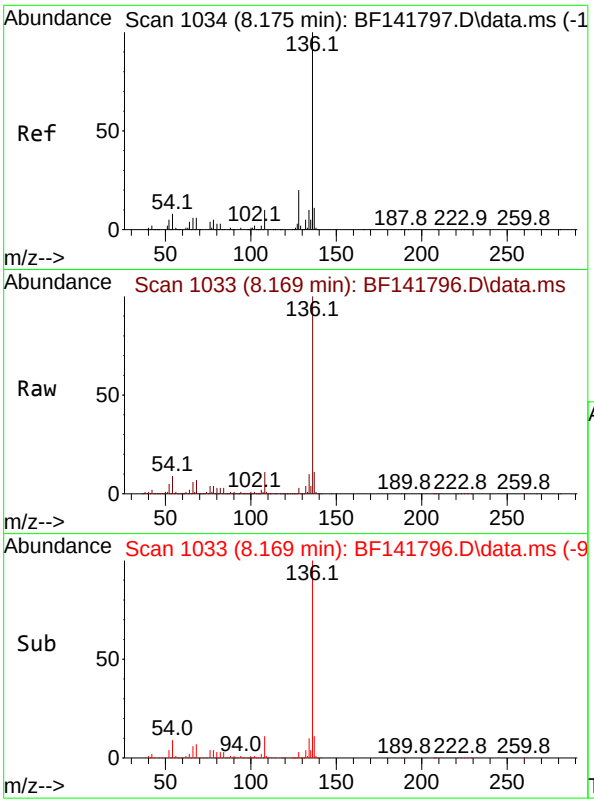


#20
3+4-Methylphenols
Concen: 21.633 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 425612

Ion	Ratio	Lower	Upper
107	100		
108	90.1	69.7	109.7
77	75.5	58.3	98.3
79	30.4	10.3	50.3

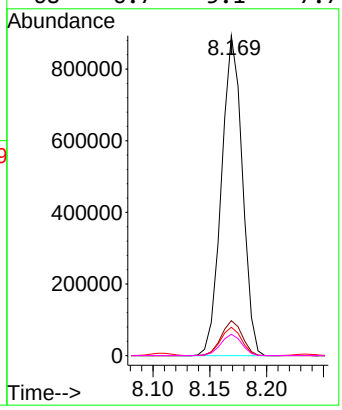




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:136 Resp: 114333

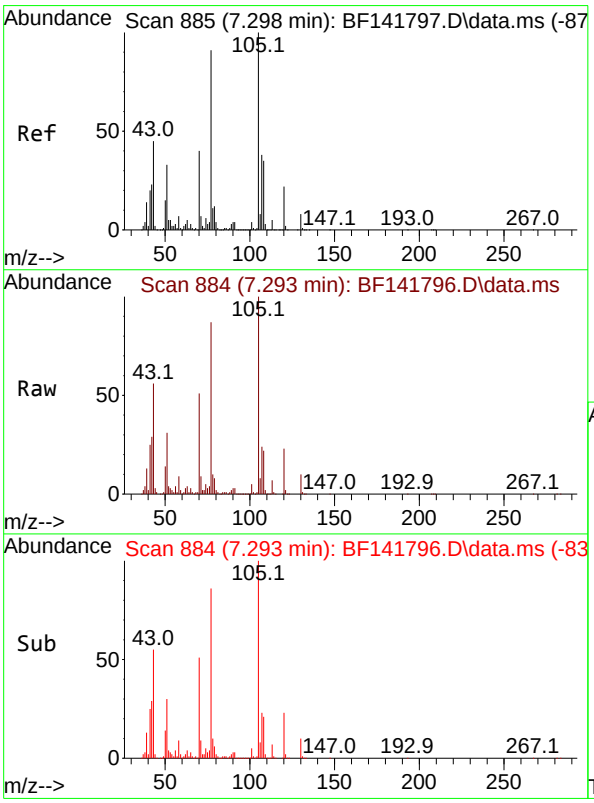
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.9	6.9	10.3
68	6.7	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

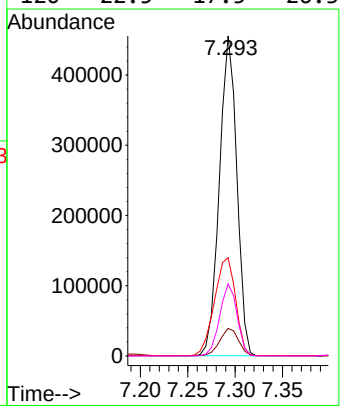
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

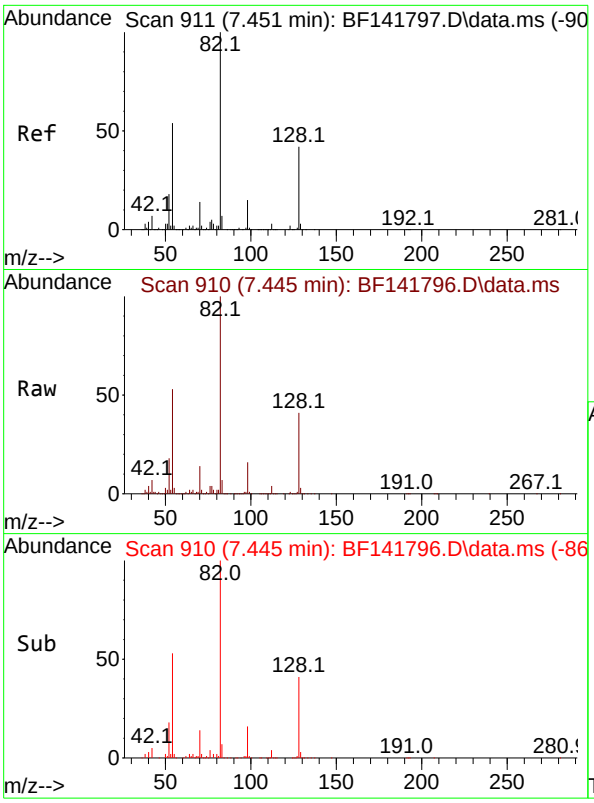


#22
Acetophenone
Concen: 21.041 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:105 Resp: 585913

Ion	Ratio	Lower	Upper
105	100		
71	8.6	5.4	8.0#
51	30.7	26.1	39.1
120	22.5	17.5	26.3





#23
Nitrobenzene-d5
Concen: 40.590 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

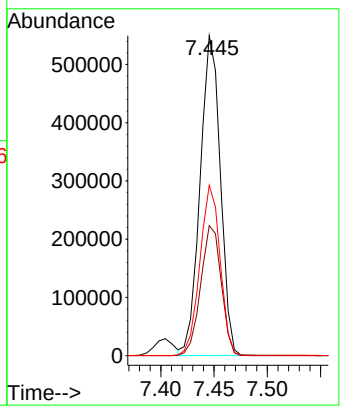
Tgt Ion: 82 Resp: 72603

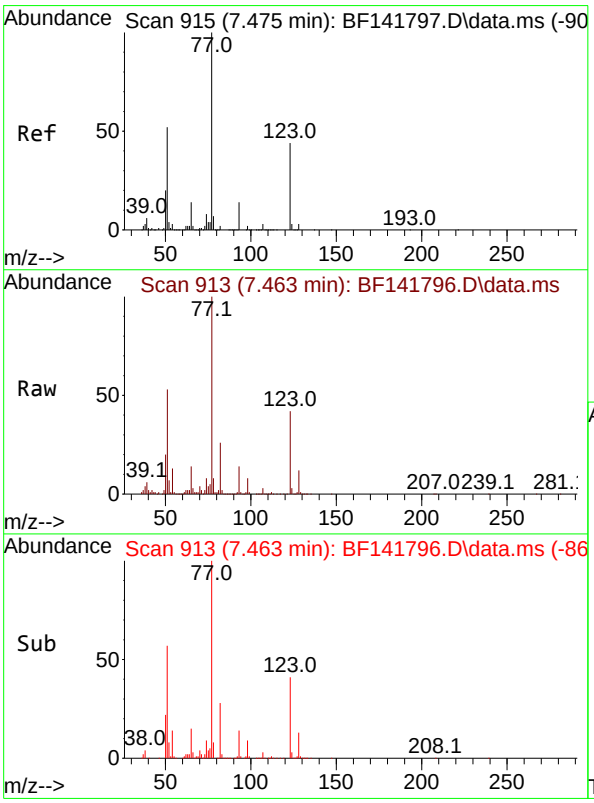
Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.5	50.3
54	53.3	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

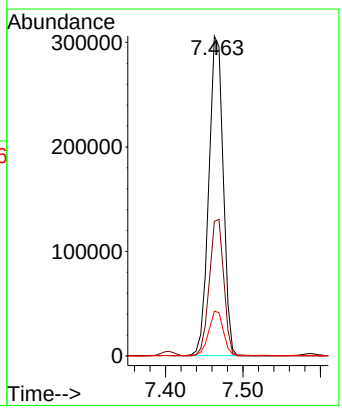


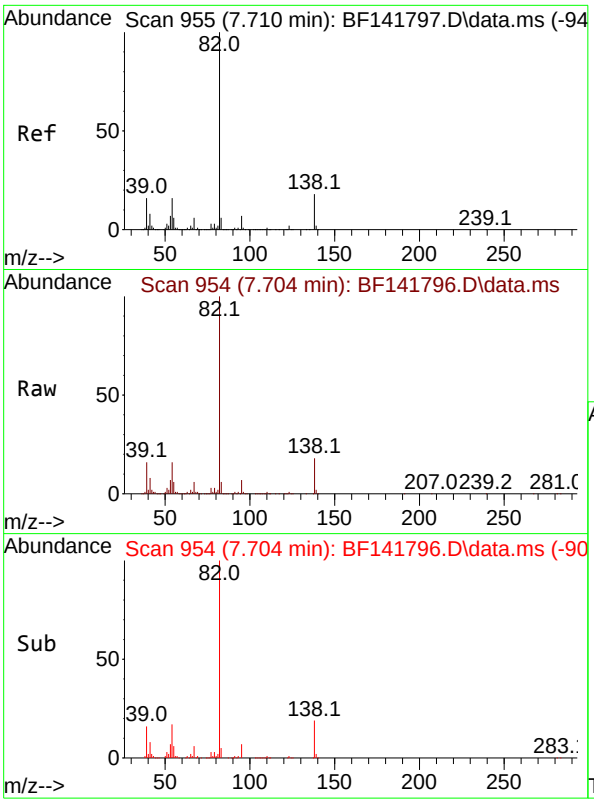


#24
Nitrobenzene
Concen: 20.649 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 395521

Ion	Ratio	Lower	Upper
77	100		
123	42.1	35.8	53.8
65	14.0	11.2	16.8





#25
Isophorone
Concen: 20.541 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

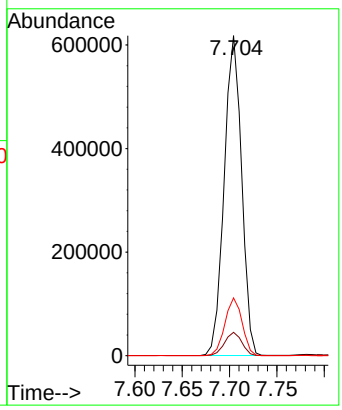
Tgt Ion: 82 Resp: 78934

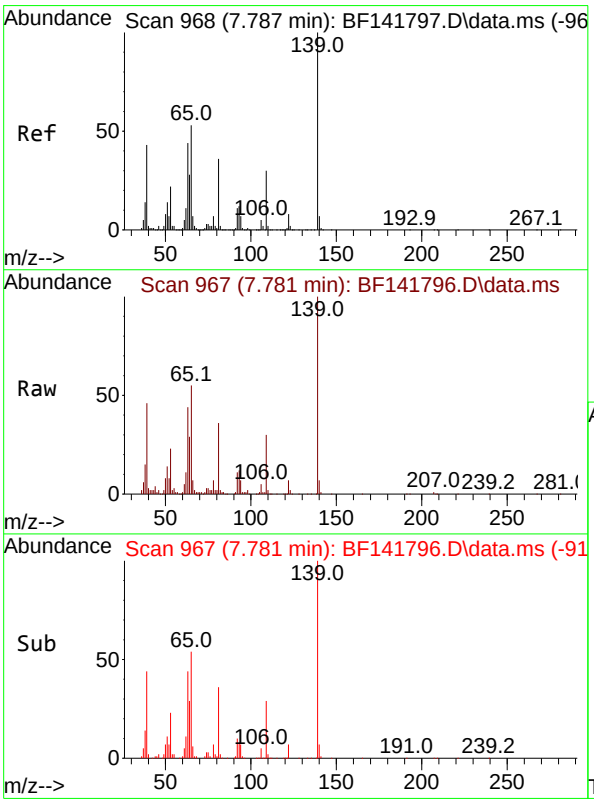
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.1	14.0	21.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

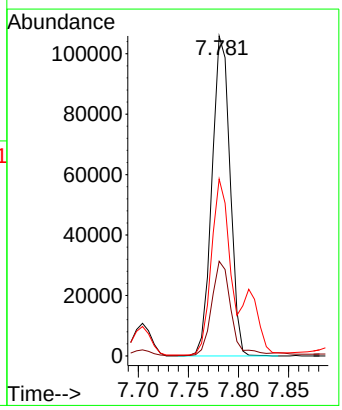


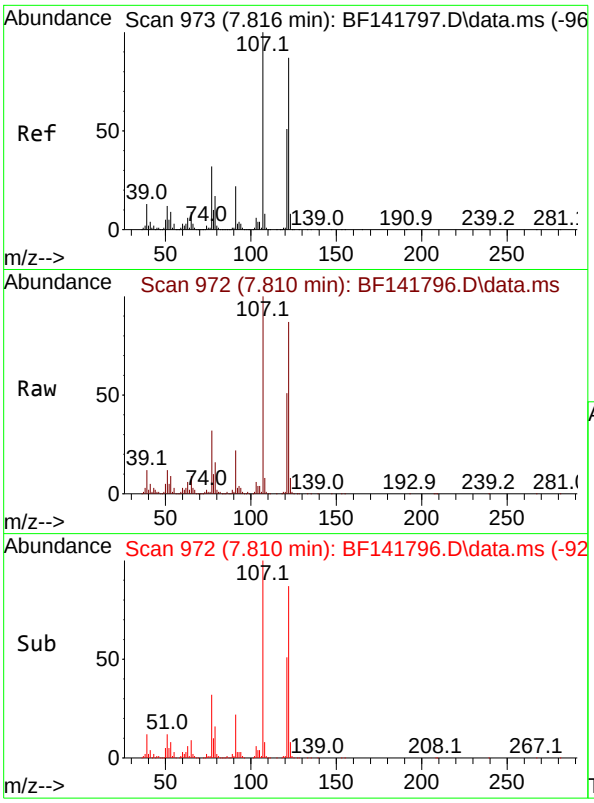


#26
2-Nitrophenol
Concen: 18.604 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:139 Resp: 132844

Ion	Ratio	Lower	Upper
139	100		
109	29.6	24.1	36.1
65	55.3	42.3	63.5

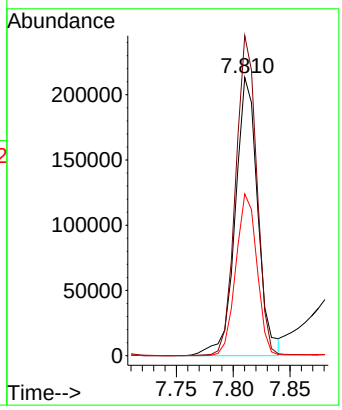




#27
2,4-Dimethylphenol
Concen: 20.740 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 29296

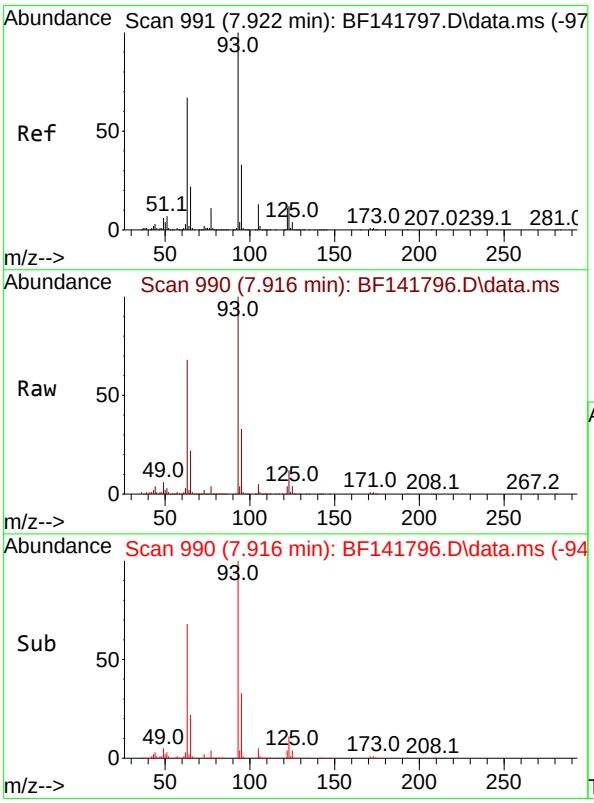
Ion	Ratio	Lower	Upper
122	100		
107	115.0	92.5	138.7
121	58.1	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

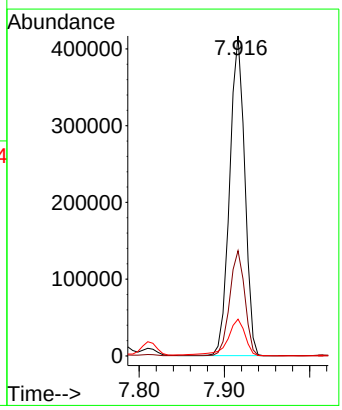
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

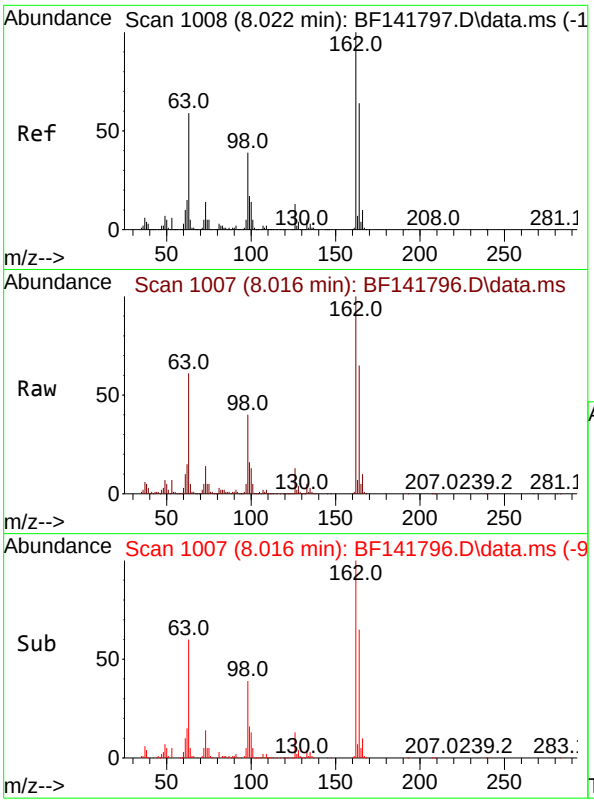


#28
bis(2-Chloroethoxy)methane
Concen: 20.966 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 513944

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.5	39.7
123	11.5	10.0	15.0

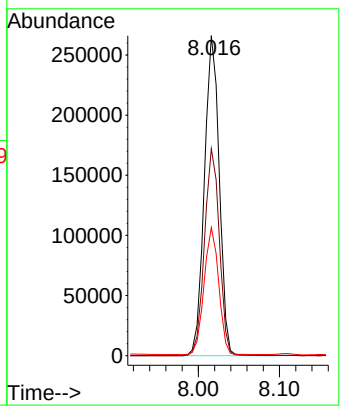




#29
2,4-Dichlorophenol
Concen: 20.749 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 33812

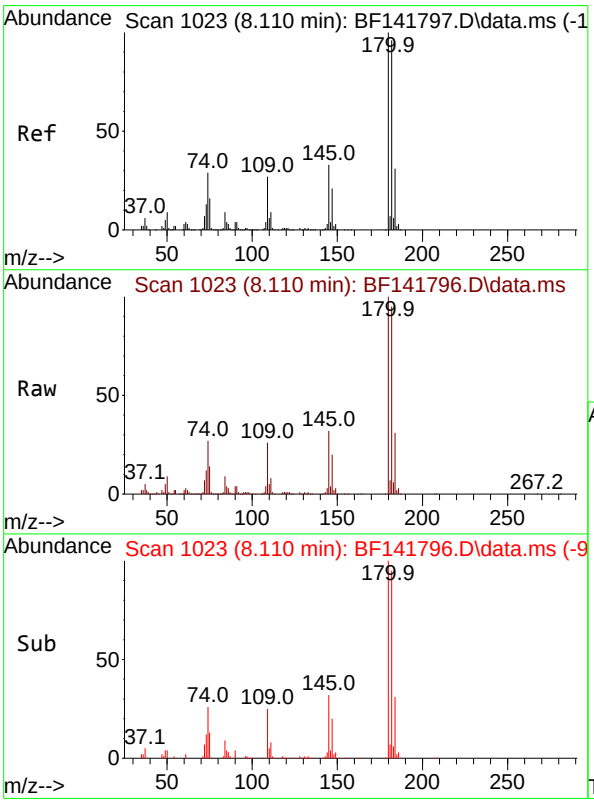
Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	40.0	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

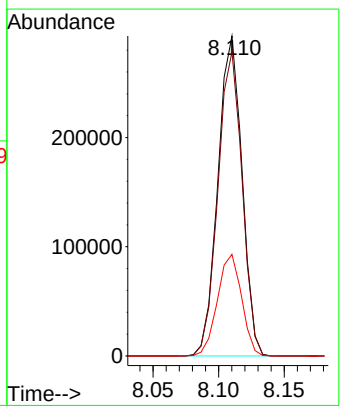
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

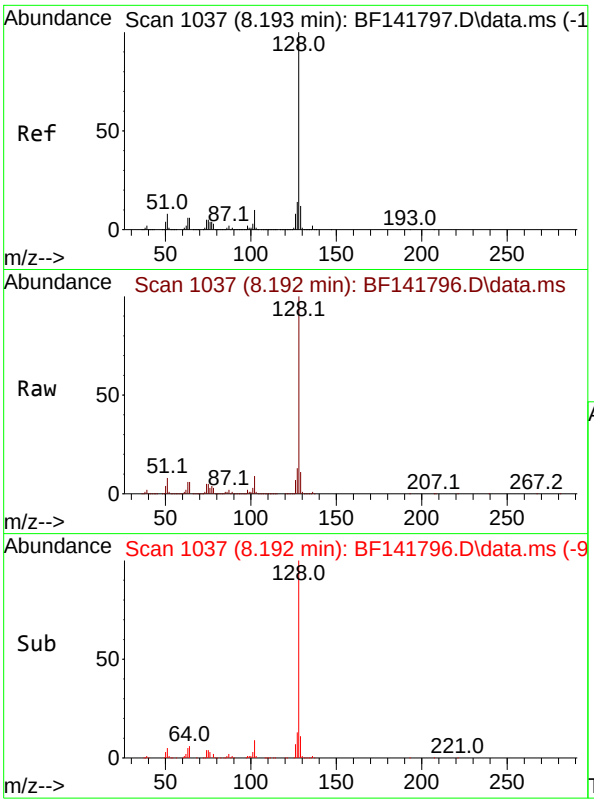


#30
1,2,4-Trichlorobenzene
Concen: 20.955 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:180 Resp: 374188

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
145	31.8	26.4	39.6

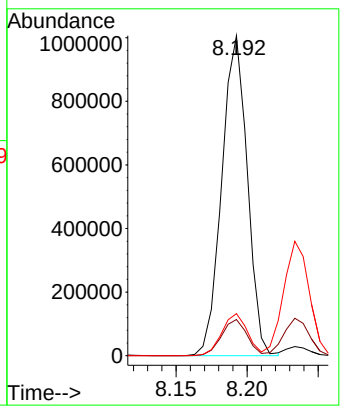




#31
Naphthalene
Concen: 21.409 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 125808

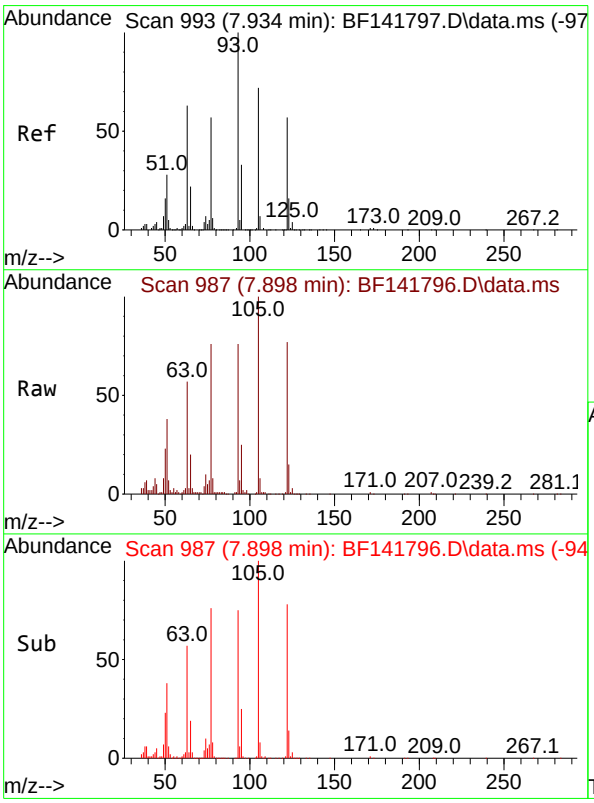
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

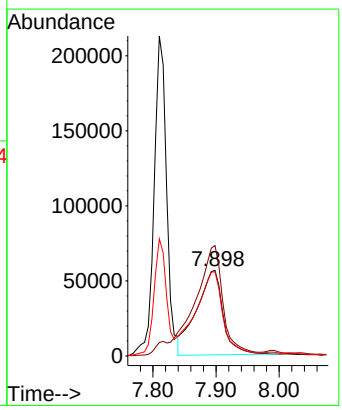
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

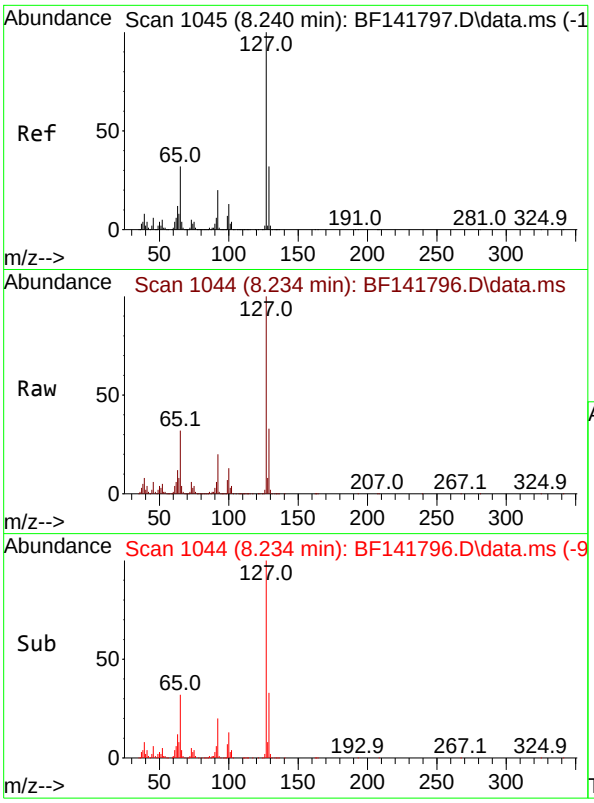


#32
Benzoic acid
Concen: 19.487 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.036 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 165613

Ion	Ratio	Lower	Upper
122	100		
105	129.2	105.8	145.8
77	98.4	79.9	119.9

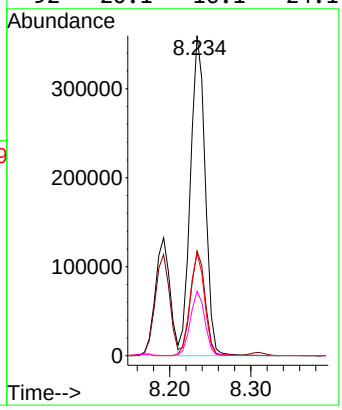




#33
4-Chloroaniline
Concen: 21.097 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:127 Resp: 45456

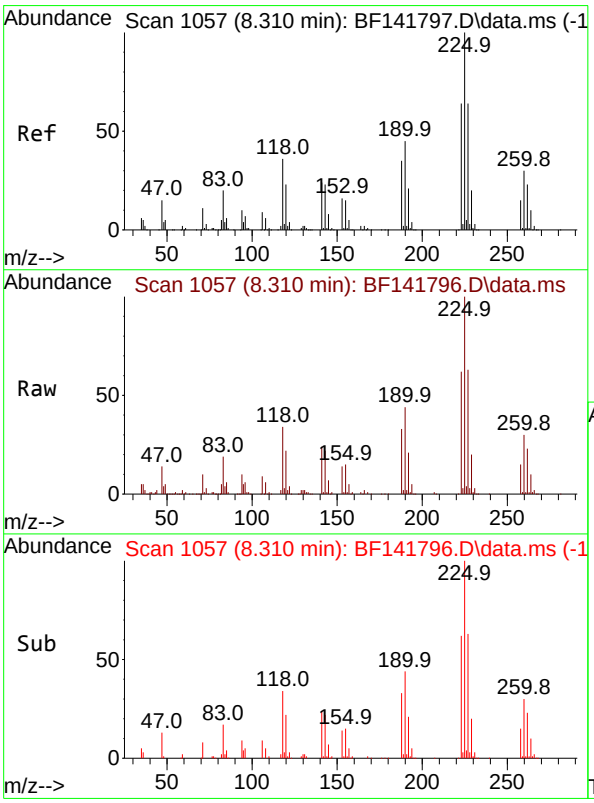
Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.0	25.7	38.5
92	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

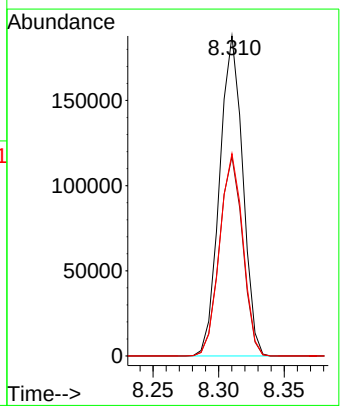
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

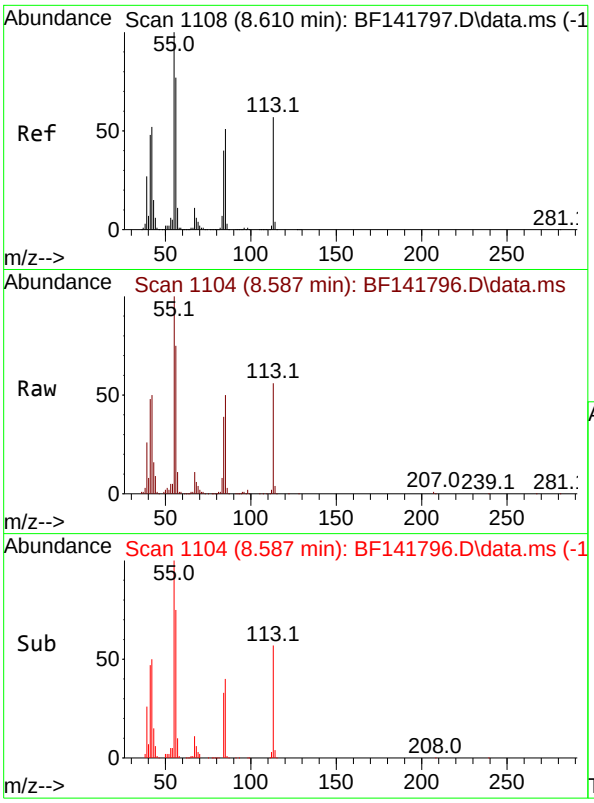


#34
Hexachlorobutadiene
Concen: 20.776 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:225 Resp: 230541

Ion	Ratio	Lower	Upper
225	100		
223	62.3	51.4	77.2
227	63.2	51.6	77.4





#35
Caprolactam
Concen: 20.521 ng
RT: 8.587 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

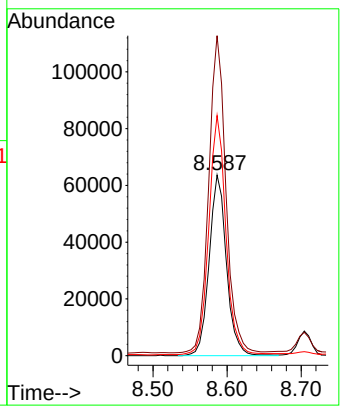
Tgt Ion:113 Resp: 10289

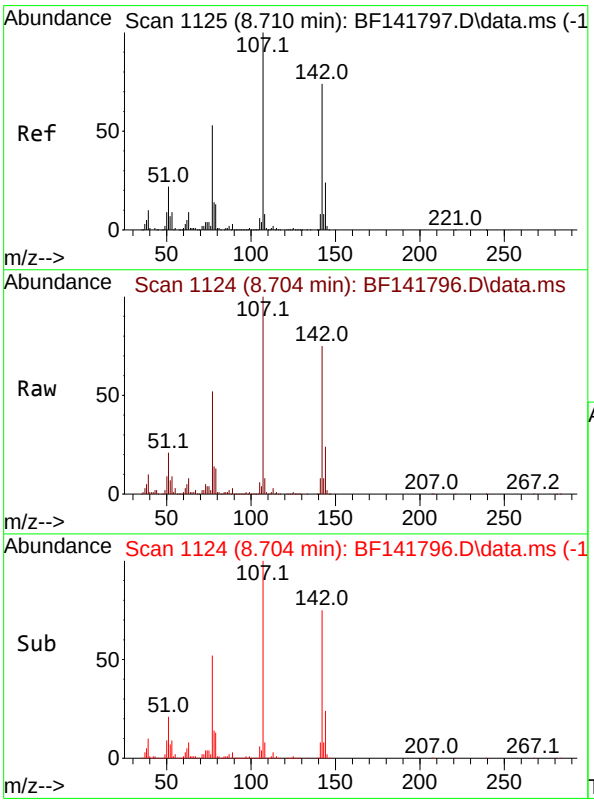
Ion	Ratio	Lower	Upper
113	100		
55	177.2	155.6	195.6
56	132.9	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

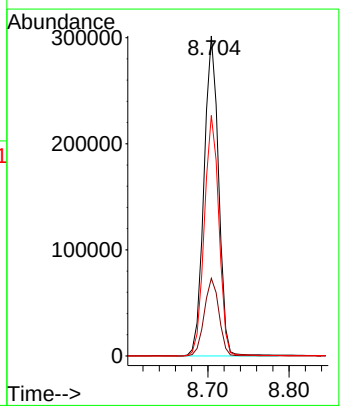


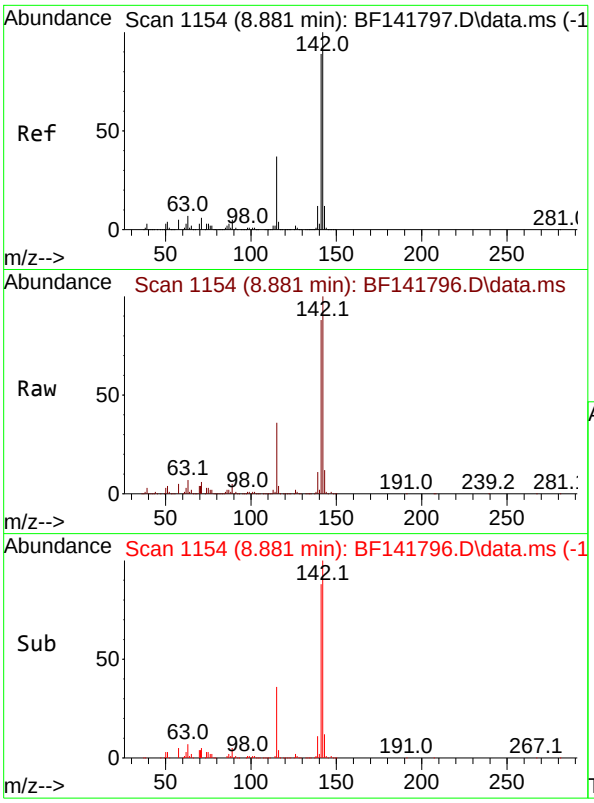


#36
4-Chloro-3-methylphenol
Concen: 20.776 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 376094

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.4	29.0
142	75.1	59.4	89.0

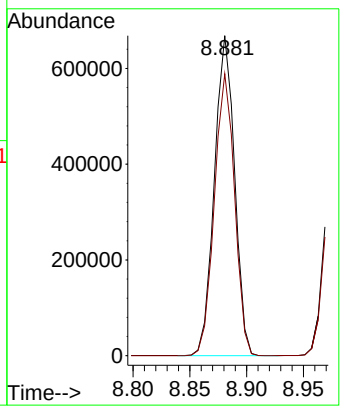




#37
2-Methylnaphthalene
Concen: 21.443 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 82649

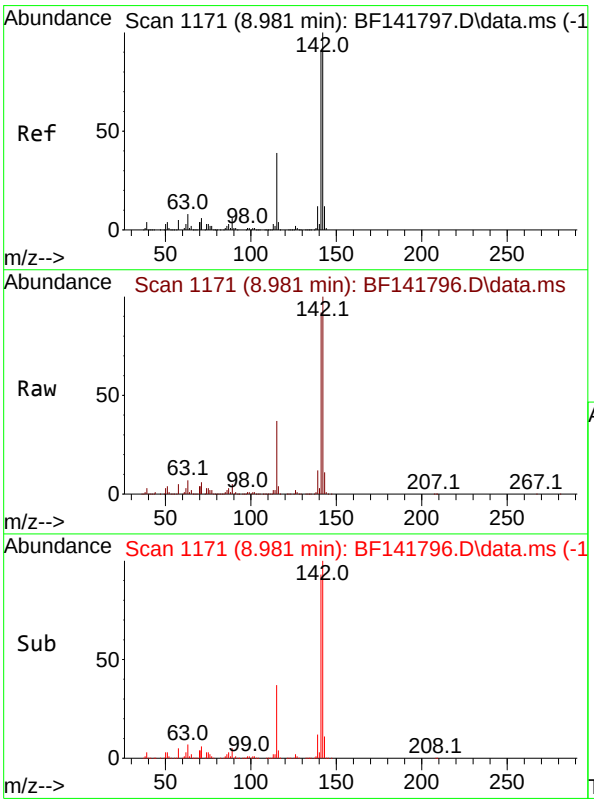
Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

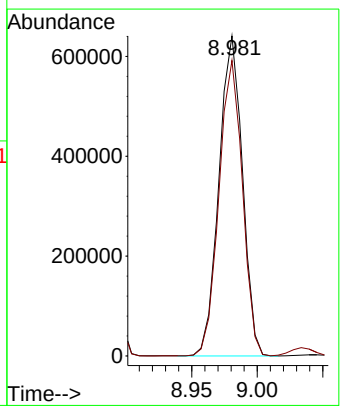
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

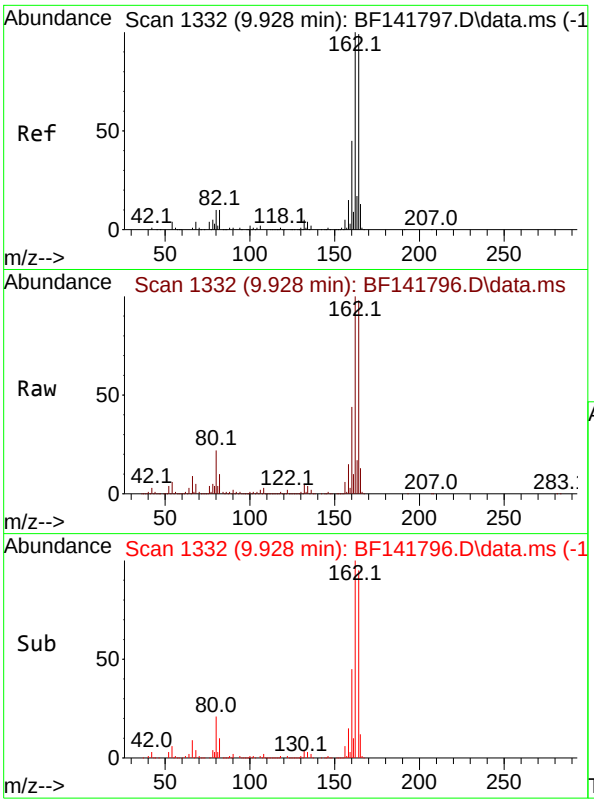


#38
1-Methylnaphthalene
Concen: 21.545 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 796808

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

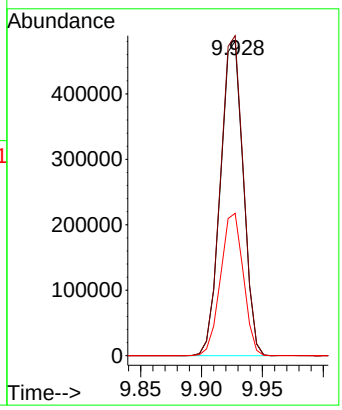




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:164 Resp: 62633

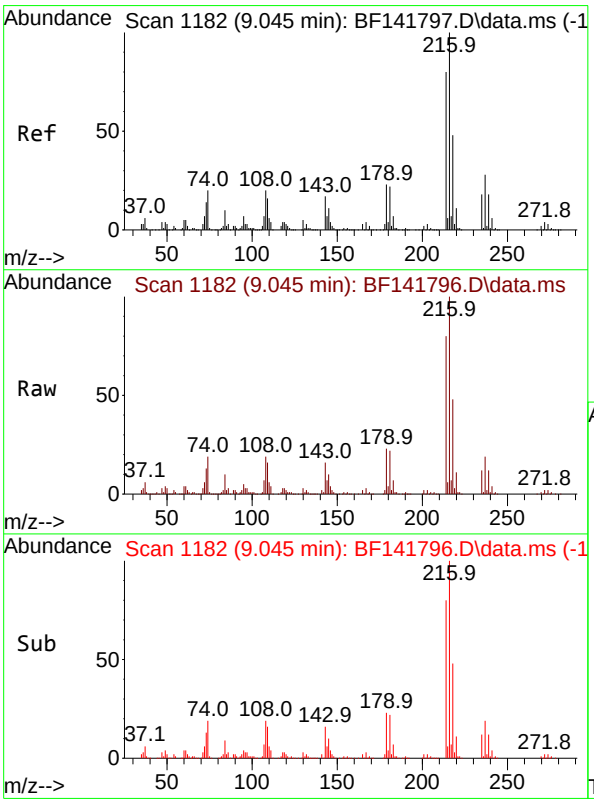
Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.3	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

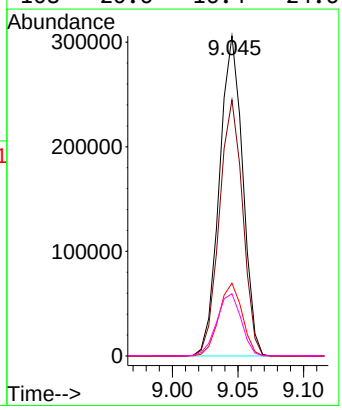
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

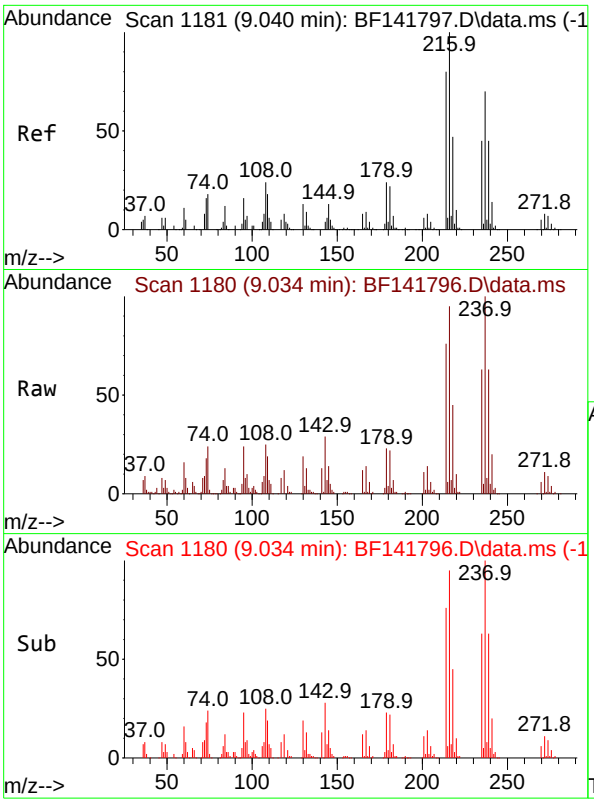


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.861 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:216 Resp: 377360

Ion	Ratio	Lower	Upper
216	100		
214	80.0	63.5	95.3
179	22.8	18.1	27.1
108	20.6	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 20.943 ng
RT: 9.034 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

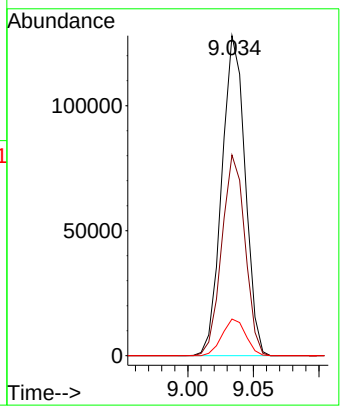
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

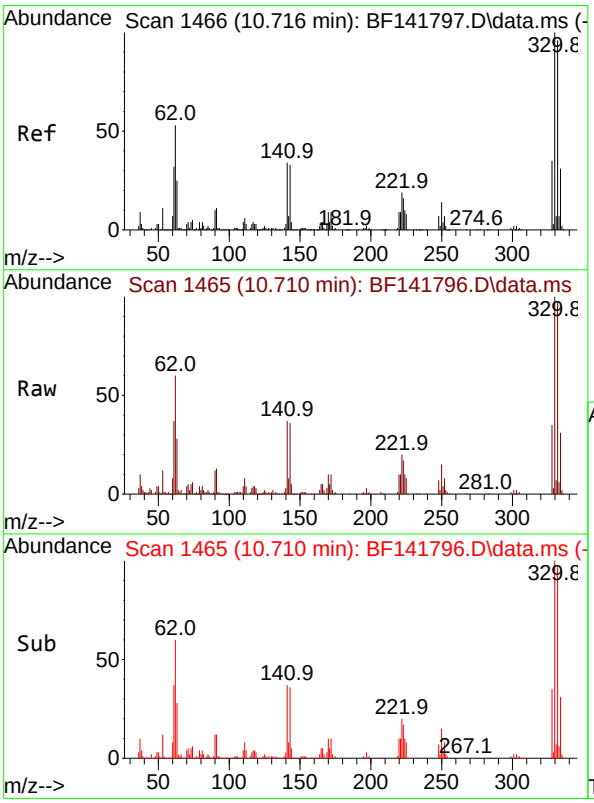
Tgt Ion:237 Resp: 15810

Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.3	83.3
272	11.4	0.0	31.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

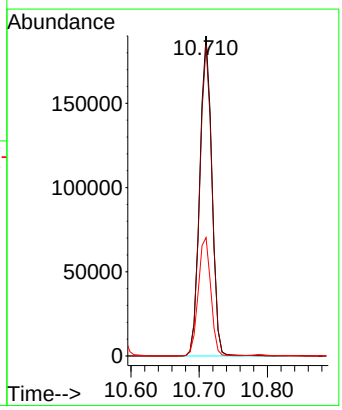


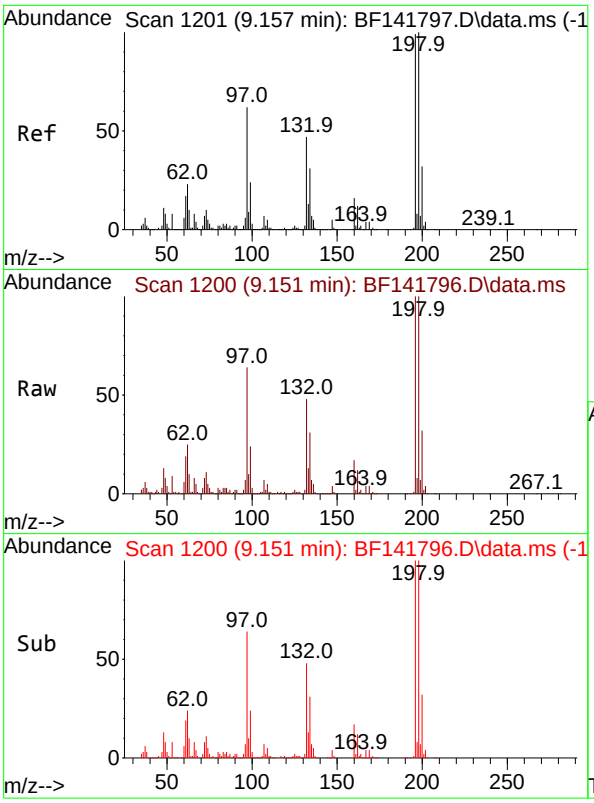


#42
2,4,6-Tribromophenol
Concen: 39.990 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:330 Resp: 235147

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.6	115.0
141	38.3	29.0	43.4





#43
2,4,6-Trichlorophenol
Concen: 20.419 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

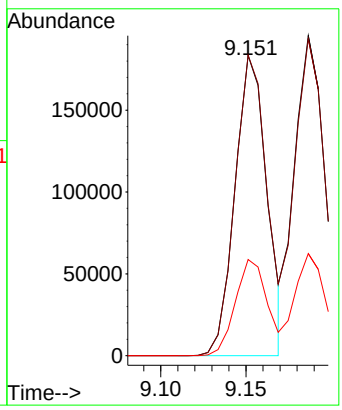
Tgt Ion:196 Resp: 23859

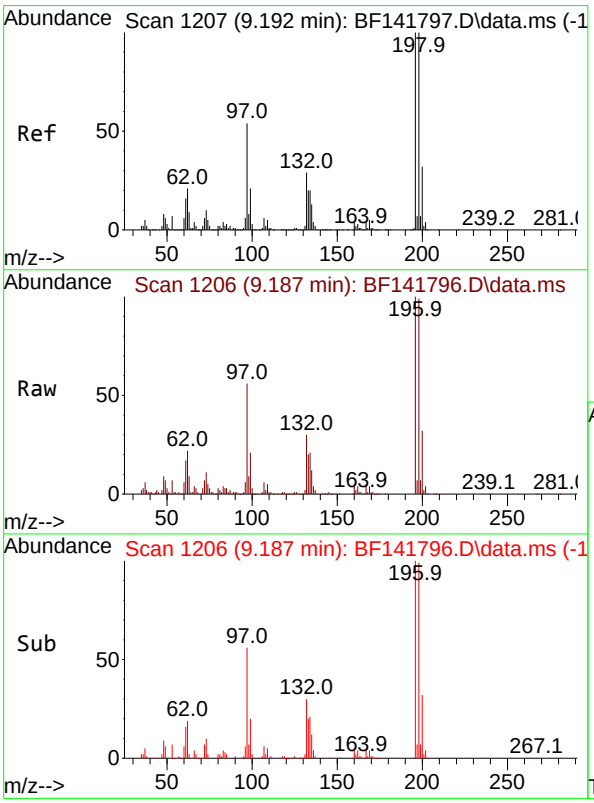
Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.4	120.6
200	32.0	25.7	38.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

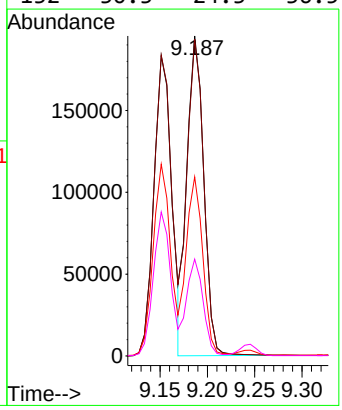


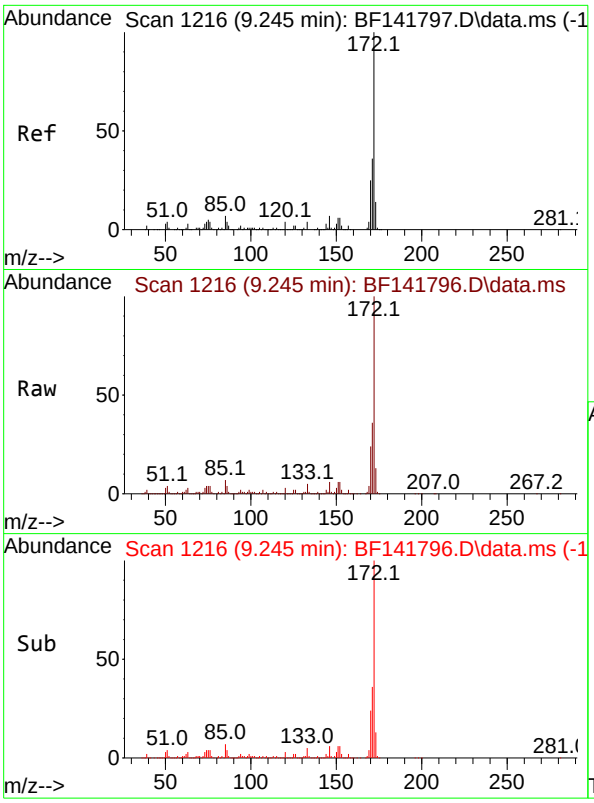


#44
2,4,5-Trichlorophenol
Concen: 20.976 ng
RT: 9.187 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:196 Resp: 242709

Ion	Ratio	Lower	Upper
196	100		
198	99.1	79.7	119.5
97	55.9	44.2	66.2
132	30.3	24.3	36.5

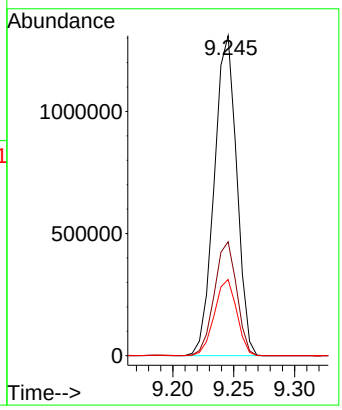




#45
2-Fluorobiphenyl
Concen: 43.170 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:172 Resp: 168631

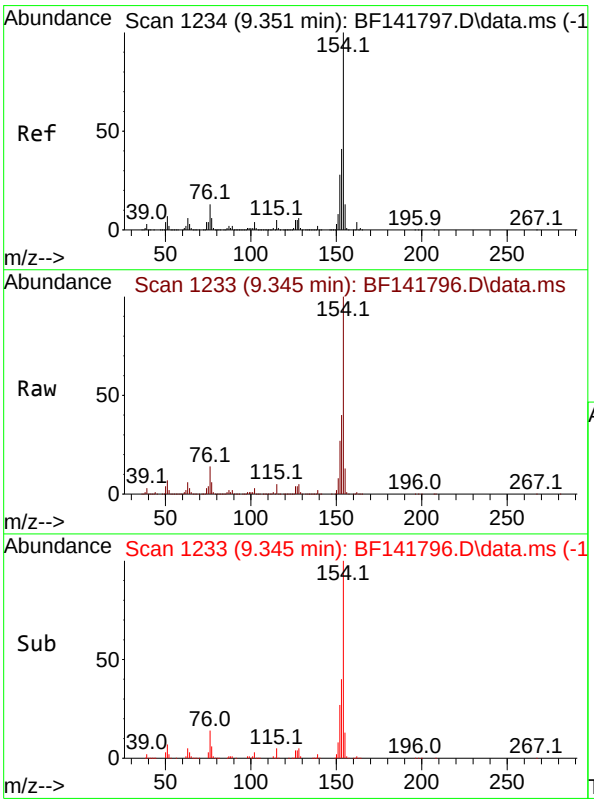
Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.8	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

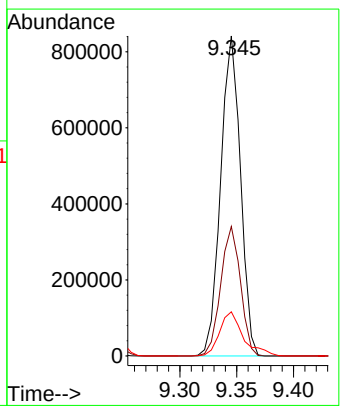
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

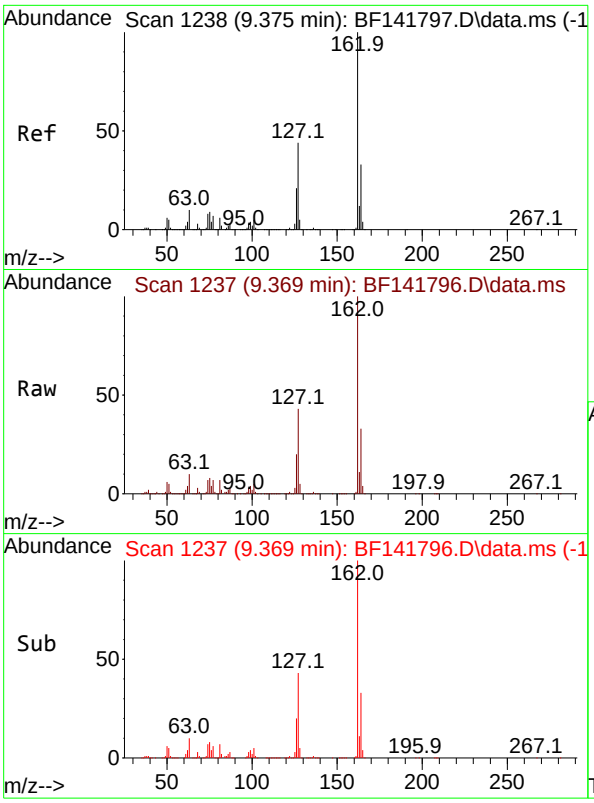


#46
1,1'-Biphenyl
Concen: 21.418 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:154 Resp: 1021081

Ion	Ratio	Lower	Upper
154	100		
153	40.4	21.4	61.4
76	13.8	0.0	33.4

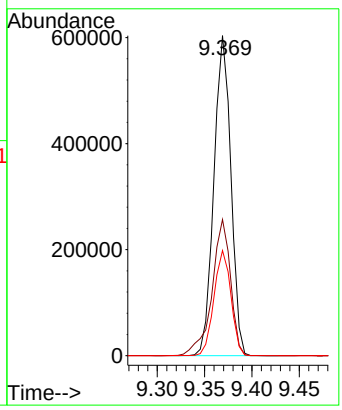




#47
2-Chloronaphthalene
Concen: 21.375 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 75214

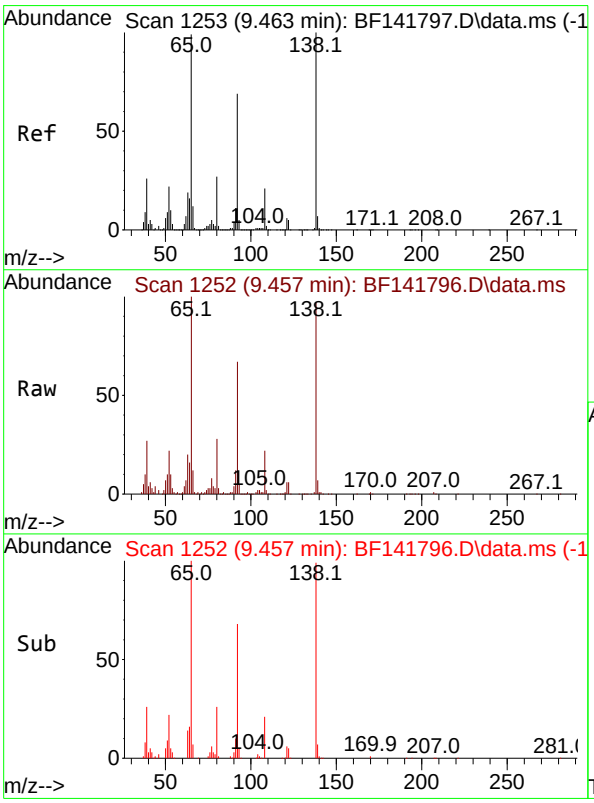
Ion	Ratio	Lower	Upper
162	100		
127	42.5	35.0	52.6
164	32.9	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

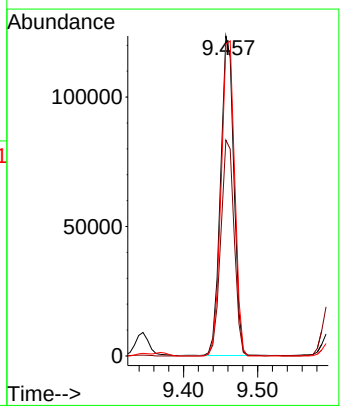
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

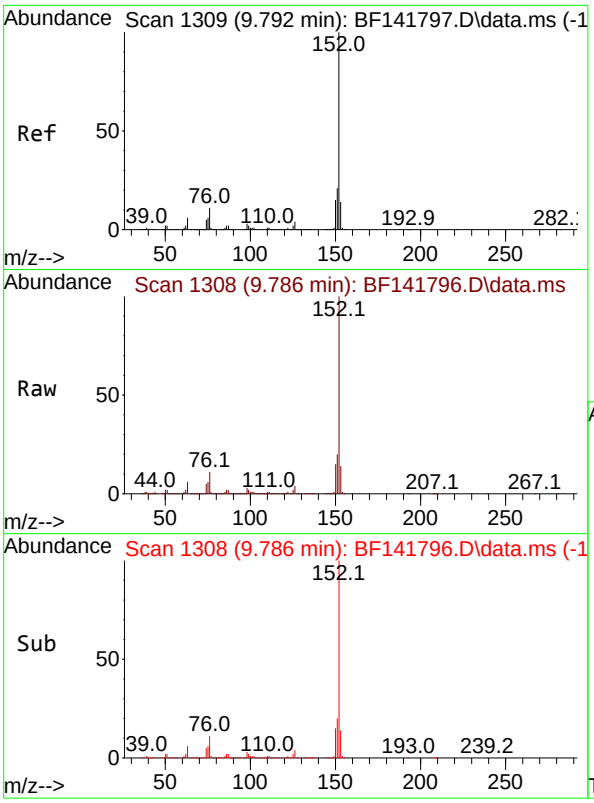


#48
2-Nitroaniline
Concen: 18.870 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 65 Resp: 153869

Ion	Ratio	Lower	Upper
65	100		
92	67.5	55.7	83.5
138	97.5	80.6	121.0

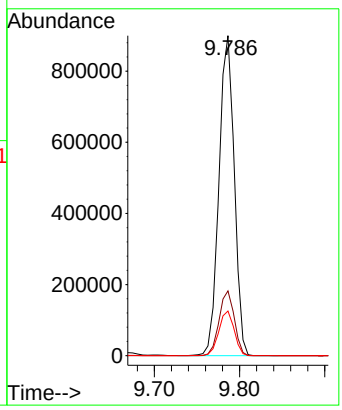




#49
Acenaphthylene
Concen: 21.349 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 112630

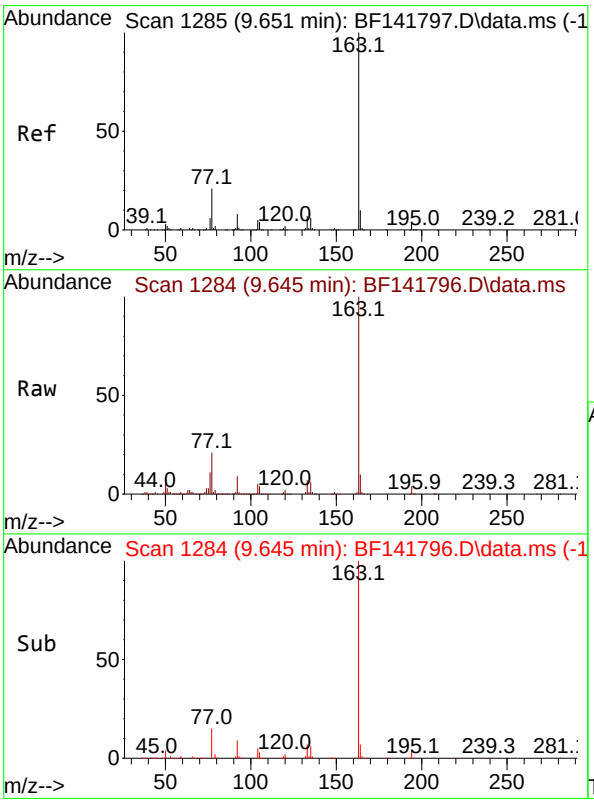
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	13.9	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

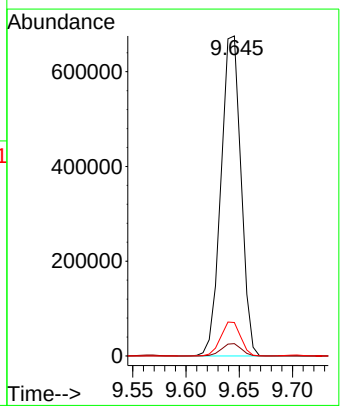
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

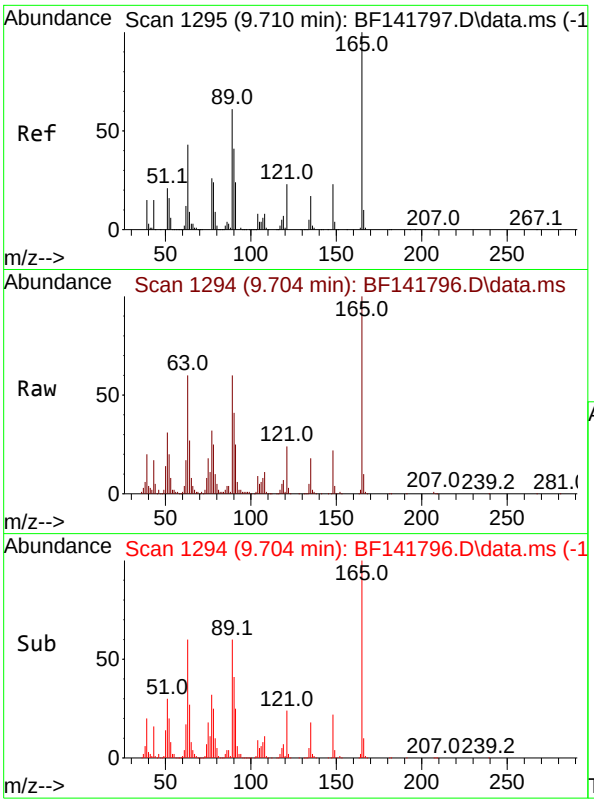


#50
Dimethylphthalate
Concen: 20.977 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:163 Resp: 879870

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 19.796 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

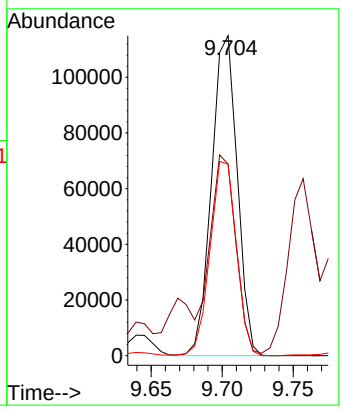
Tgt Ion:165 Resp: 14467

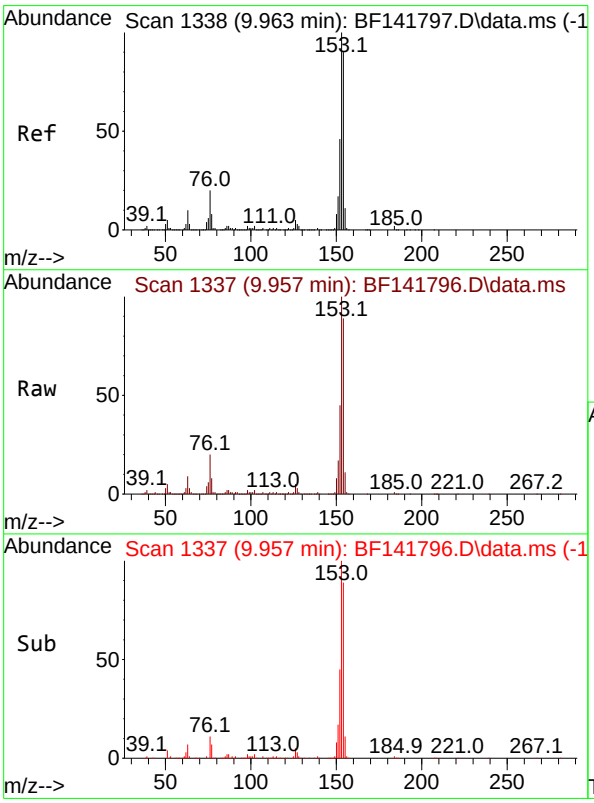
Ion	Ratio	Lower	Upper
165	100		
63	59.9	49.5	74.3
89	59.8	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

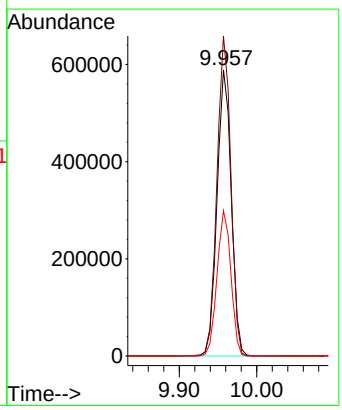


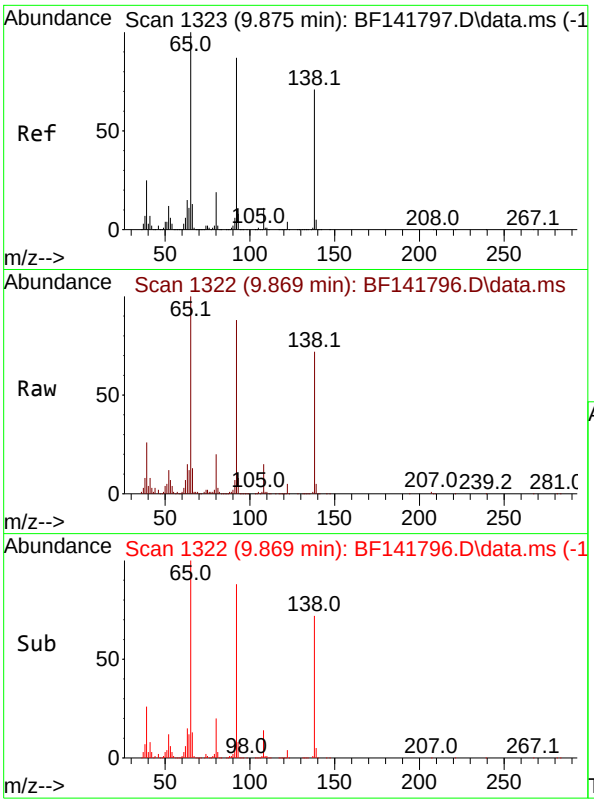


#52
Acenaphthene
Concen: 21.068 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:154 Resp: 749963

Ion	Ratio	Lower	Upper
154	100		
153	111.9	88.7	133.1
152	50.8	40.9	61.3





#53
3-Nitroaniline
Concen: 19.664 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

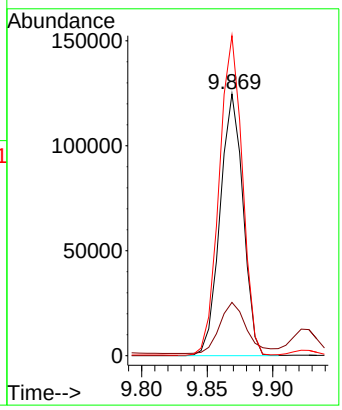
Tgt Ion:138 Resp: 15211

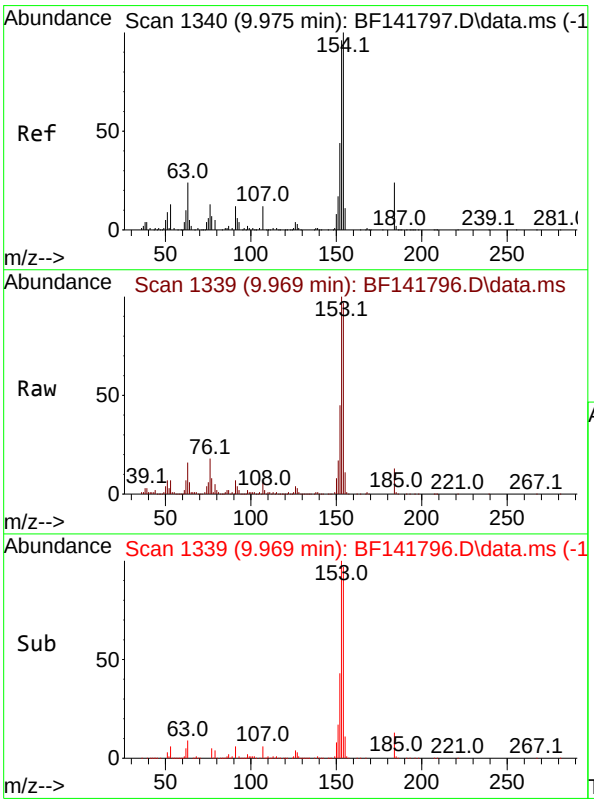
Ion	Ratio	Lower	Upper
138	100		
108	20.3	12.7	19.1#
92	122.3	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

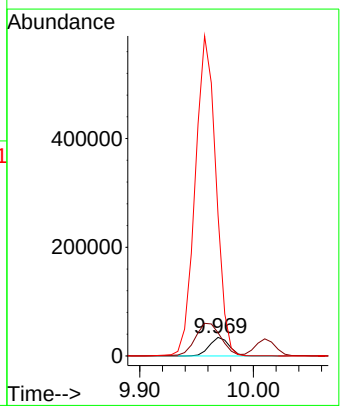


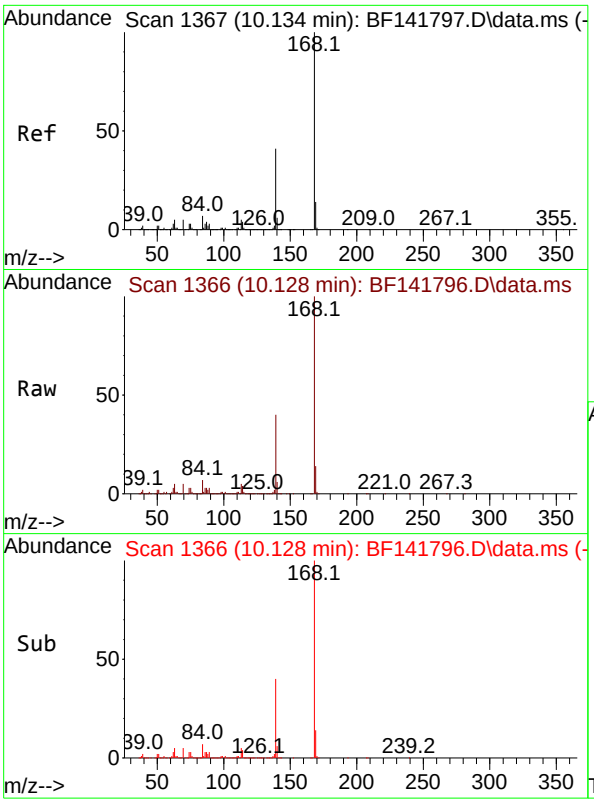


#54
2,4-Dinitrophenol
Concen: 19.116 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 41521

Ion	Ratio	Lower	Upper
184	100		
63	125.2	79.0	118.6#
154	760.8	335.8	503.8#

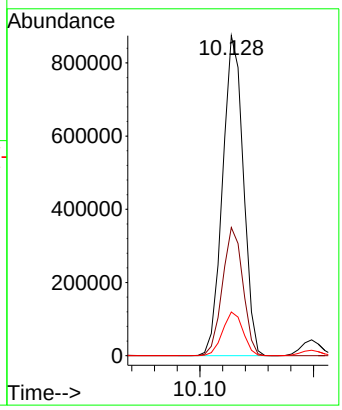




#55
Dibenzofuran
Concen: 21.332 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:168 Resp: 110527

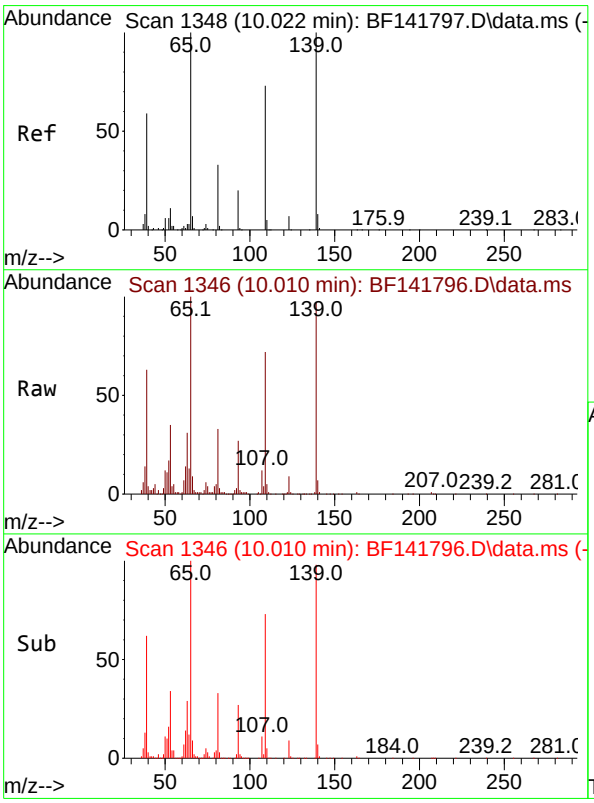
Ion	Ratio	Lower	Upper
168	100		
139	40.1	32.9	49.3
169	13.6	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

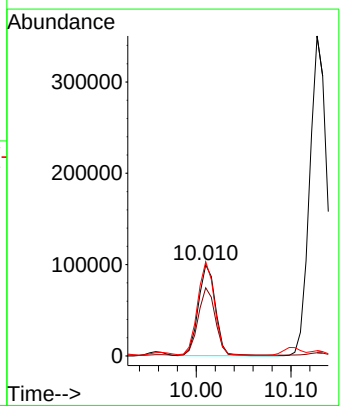
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

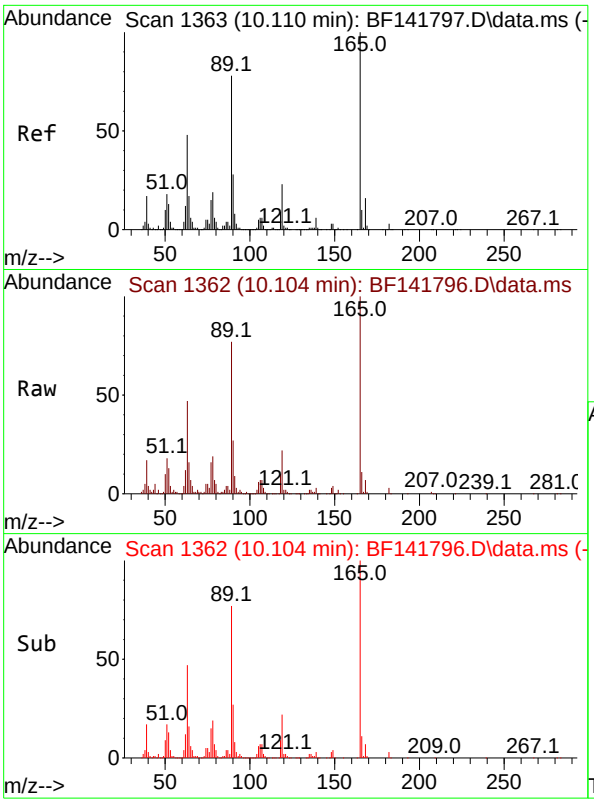


#56
4-Nitrophenol
Concen: 19.922 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:139 Resp: 123415

Ion	Ratio	Lower	Upper
139	100		
109	74.8	53.4	93.4
65	103.5	82.1	122.1

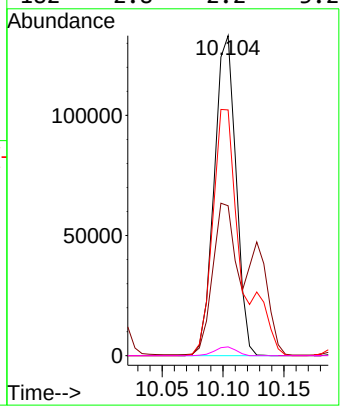




#57
2,4-Dinitrotoluene
Concen: 19.214 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:165 Resp: 16594

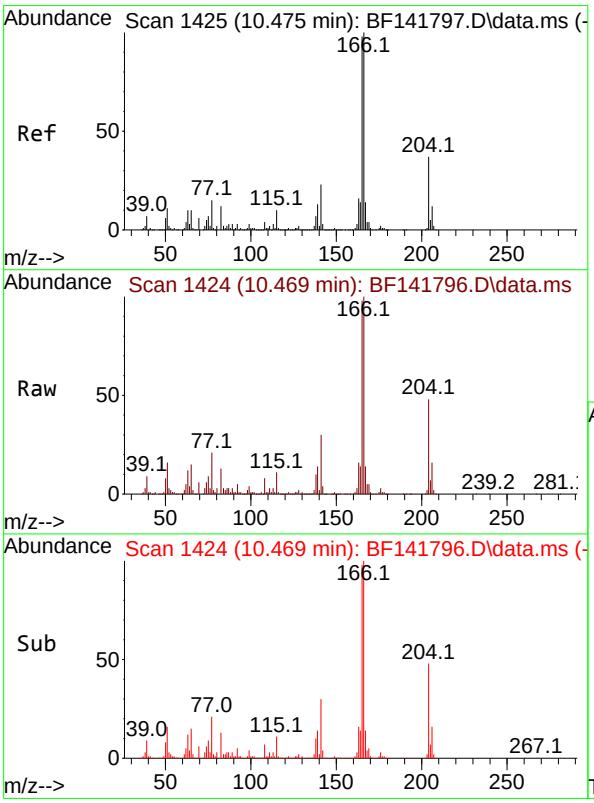
Ion	Ratio	Lower	Upper
165	100		
63	46.9	38.8	58.2
89	76.8	62.6	94.0
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

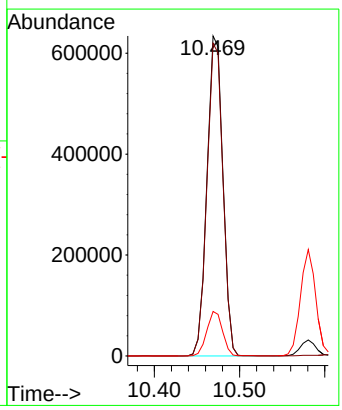
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

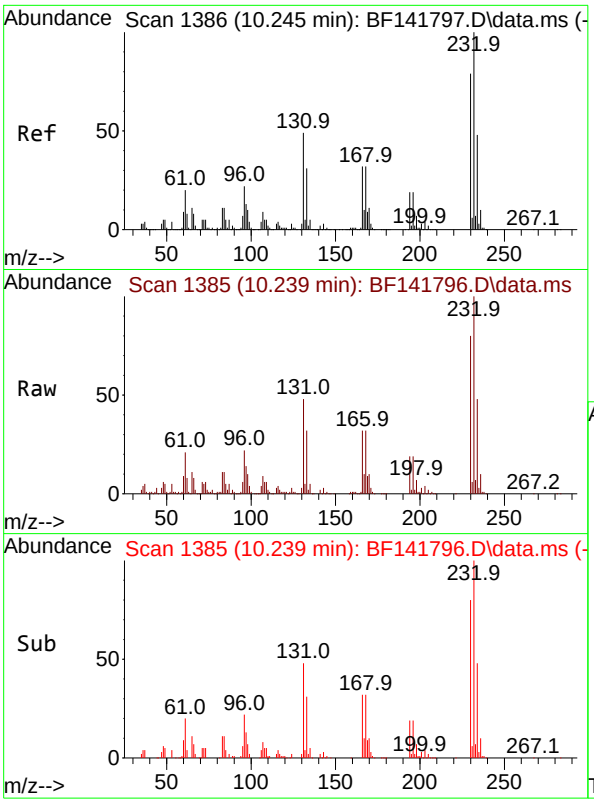


#58
Fluorene
Concen: 21.187 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:166 Resp: 822264

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.6	117.8
167	13.9	11.0	16.4

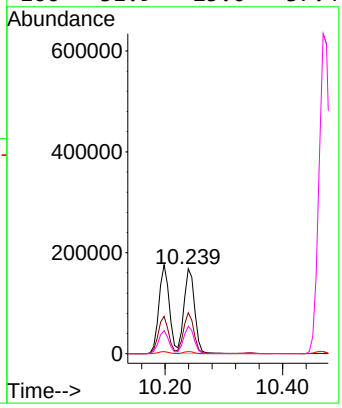




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.902 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:232 Resp: 21033

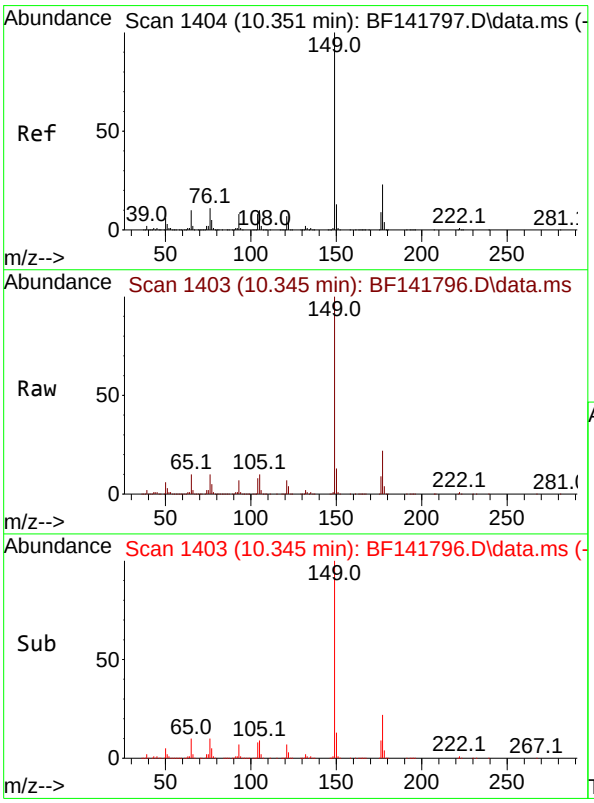
Ion	Ratio	Lower	Upper
232	100		
131	47.6	37.8	56.8
130	2.5	2.0	3.0
166	31.9	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

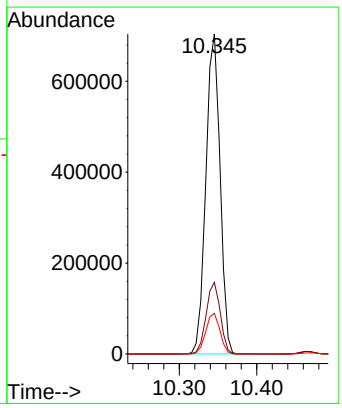
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

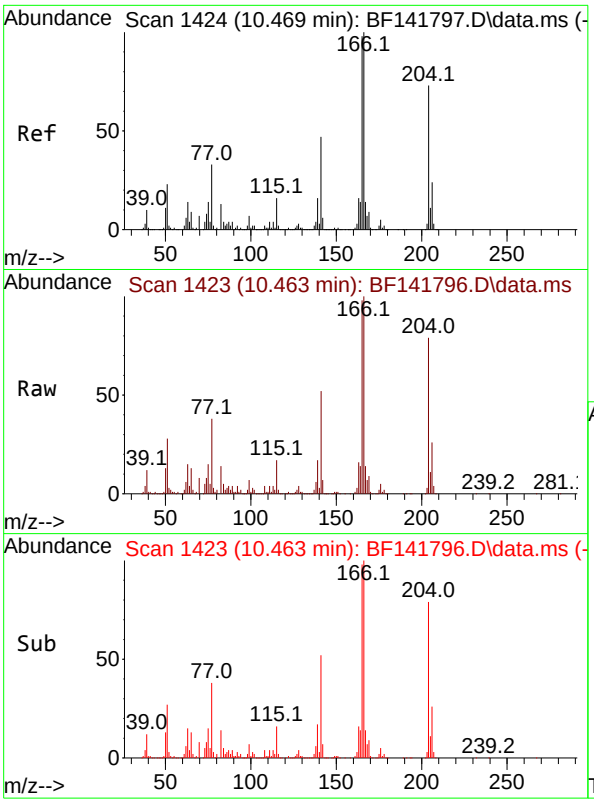


#60
Diethylphthalate
Concen: 21.264 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 894118

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.3	27.5
150	12.7	10.3	15.5

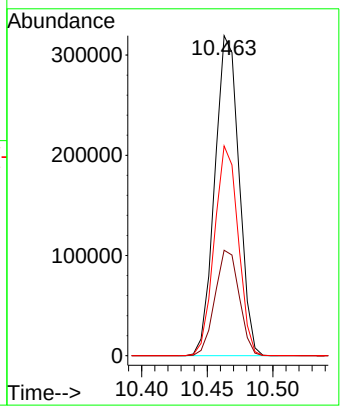




#61
4-Chlorophenyl-phenylether
Concen: 21.069 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:204 Resp: 40969

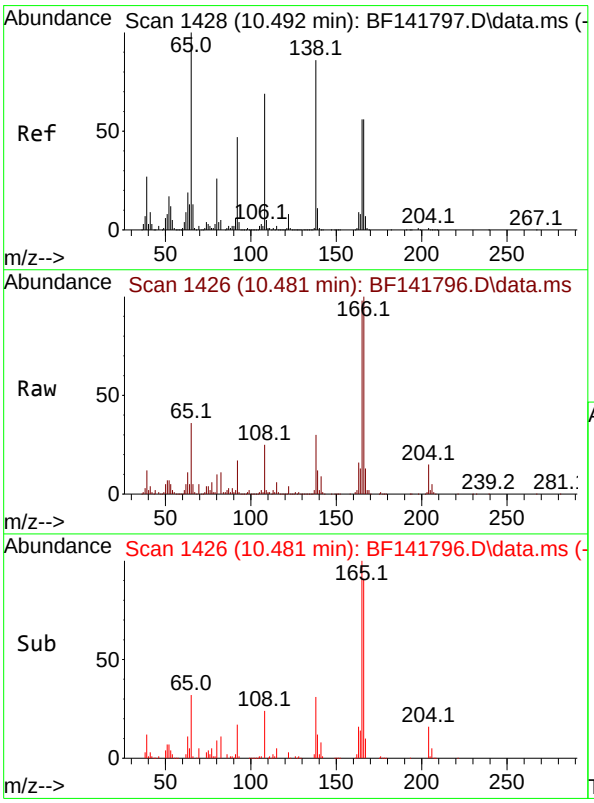
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	65.6	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

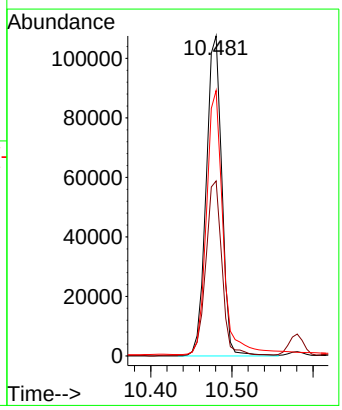
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

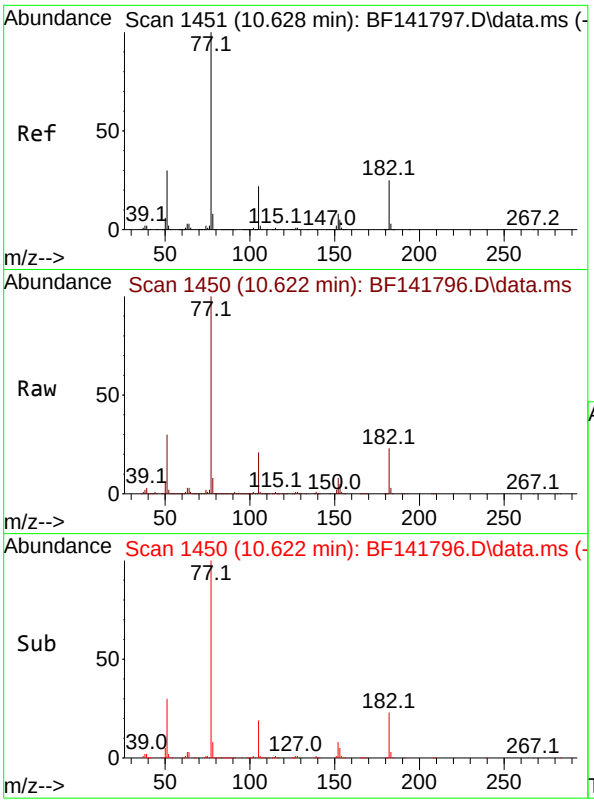


#62
4-Nitroaniline
Concen: 20.031 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:138 Resp: 143482

Ion	Ratio	Lower	Upper
138	100		
92	54.7	34.9	74.9
108	82.9	59.6	99.6

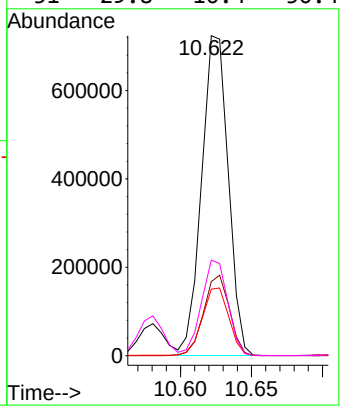




#63
Azobenzene
Concen: 21.288 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 942499

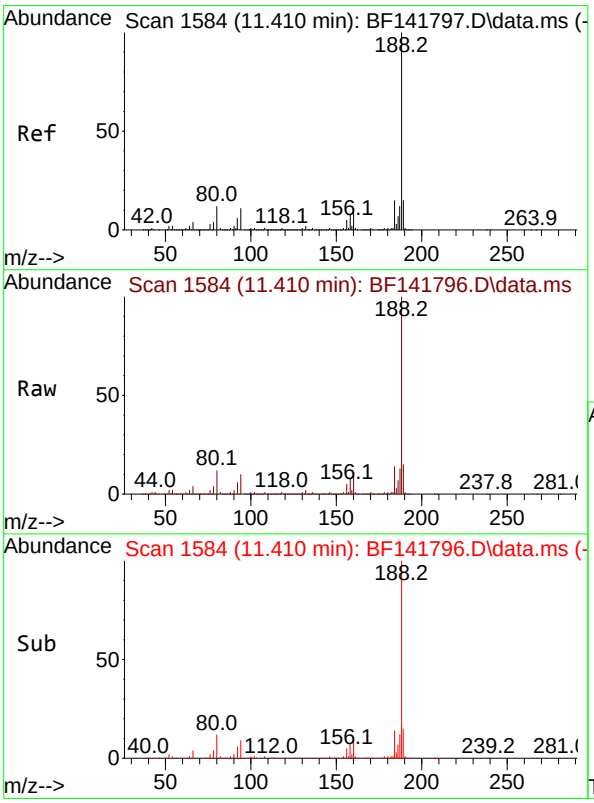
Ion	Ratio	Lower	Upper
77	100		
182	23.2	4.2	44.2
105	20.8	1.5	41.5
51	29.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

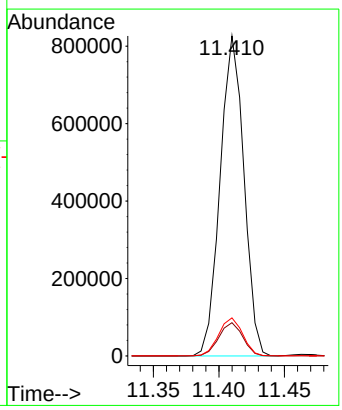
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

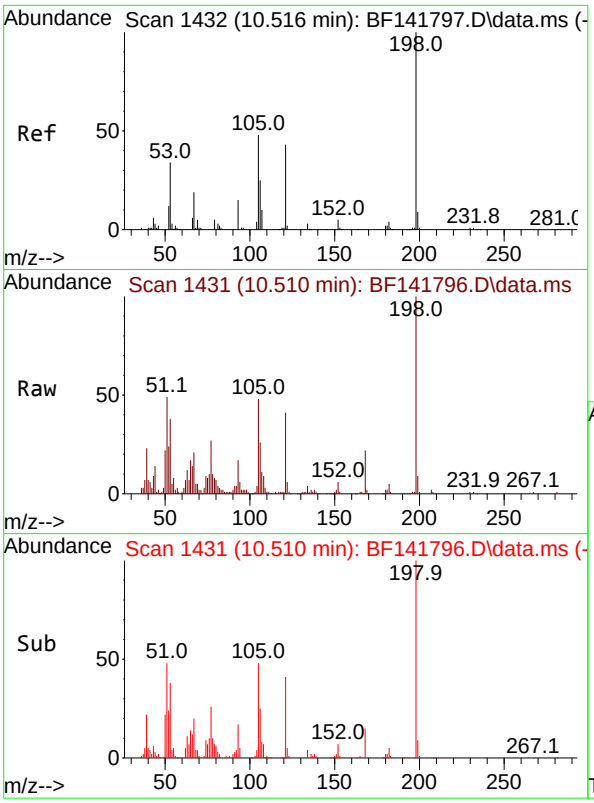


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:188 Resp: 1041715

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.9	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 19.161 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

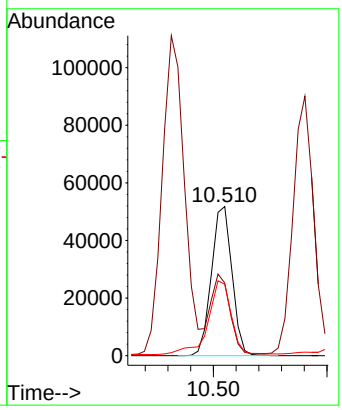
Tgt Ion:198 Resp: 6516

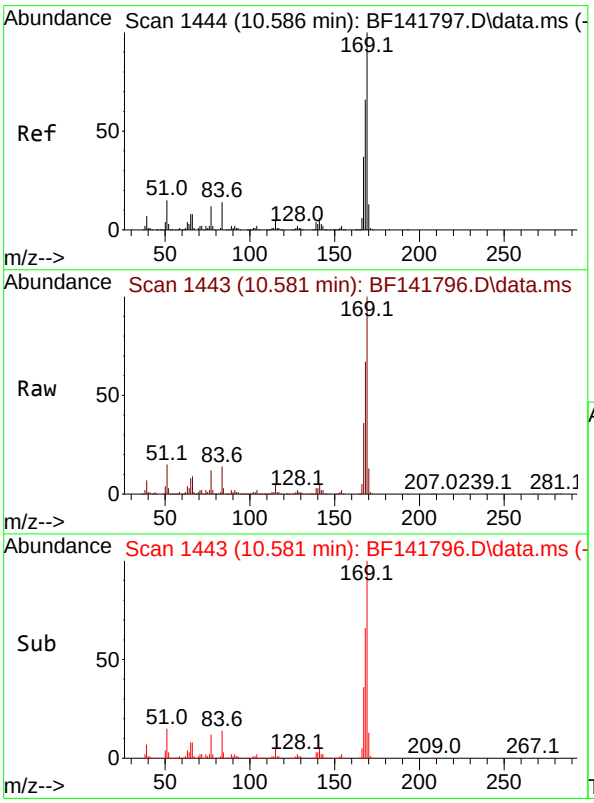
Ion	Ratio	Lower	Upper
198	100		
51	48.7	32.1	72.1
105	47.9	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

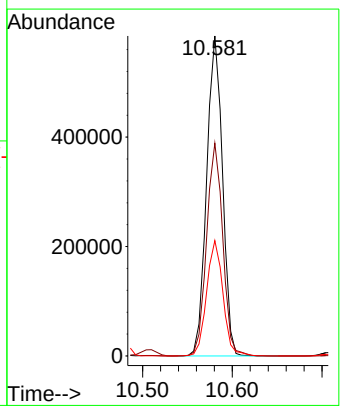


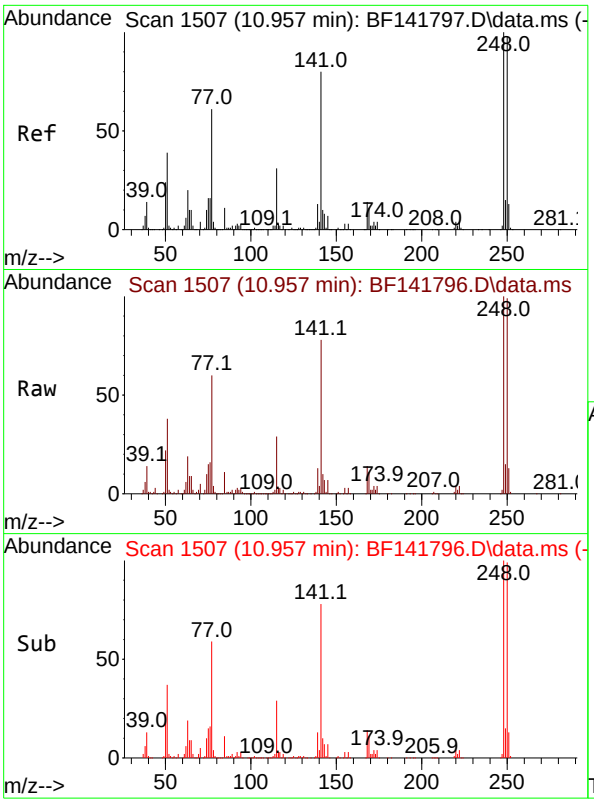


#66
n-Nitrosodiphenylamine
Concen: 20.977 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:169 Resp: 717531

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.6
167	36.0	29.3	43.9

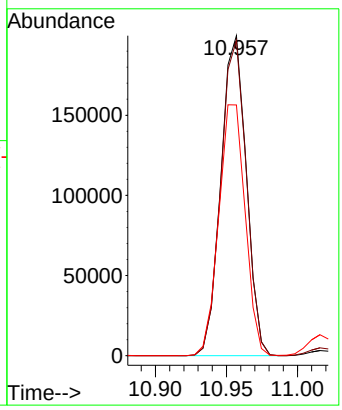




#67
4-Bromophenyl-phenylether
Concen: 20.423 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:248 Resp: 24850

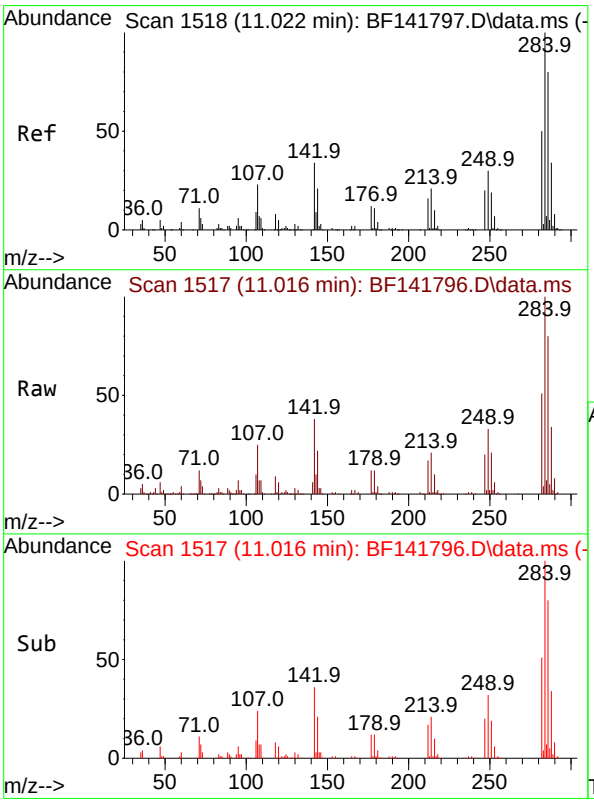
Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.1	117.1
141	78.3	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

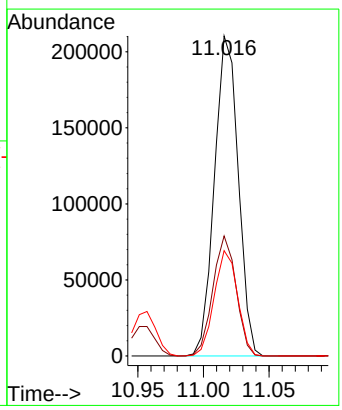
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

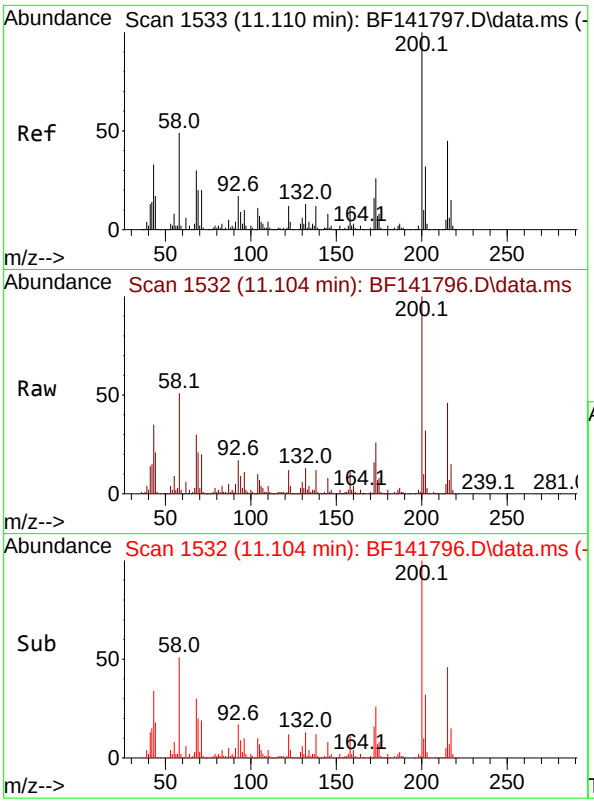


#68
Hexachlorobenzene
Concen: 20.653 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:284 Resp: 265367

Ion	Ratio	Lower	Upper
284	100		
142	37.5	28.2	42.2
249	32.9	25.5	38.3





#69
Atrazine
Concen: 21.680 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

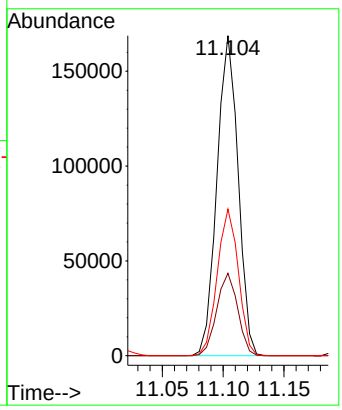
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

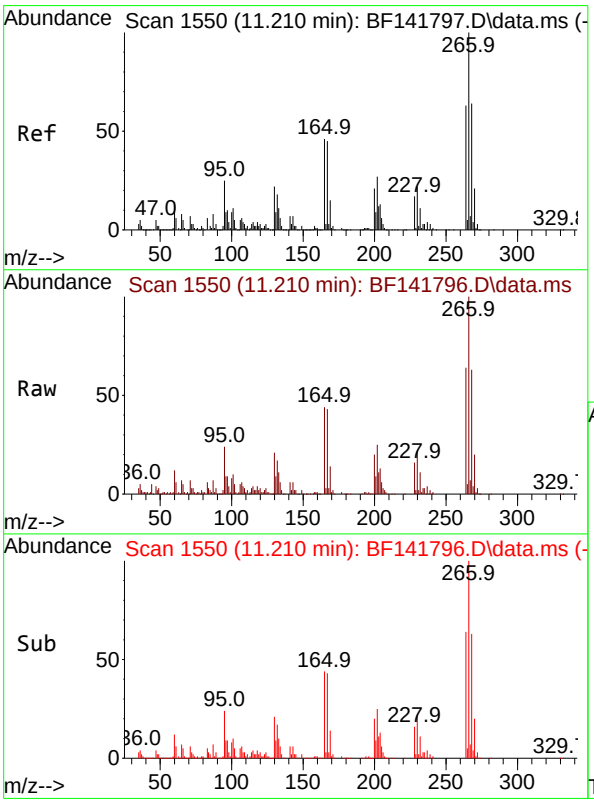
Tgt Ion:200 Resp: 20393

Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.6	45.6
215	45.8	25.3	65.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

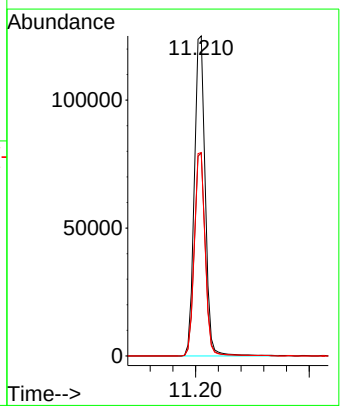


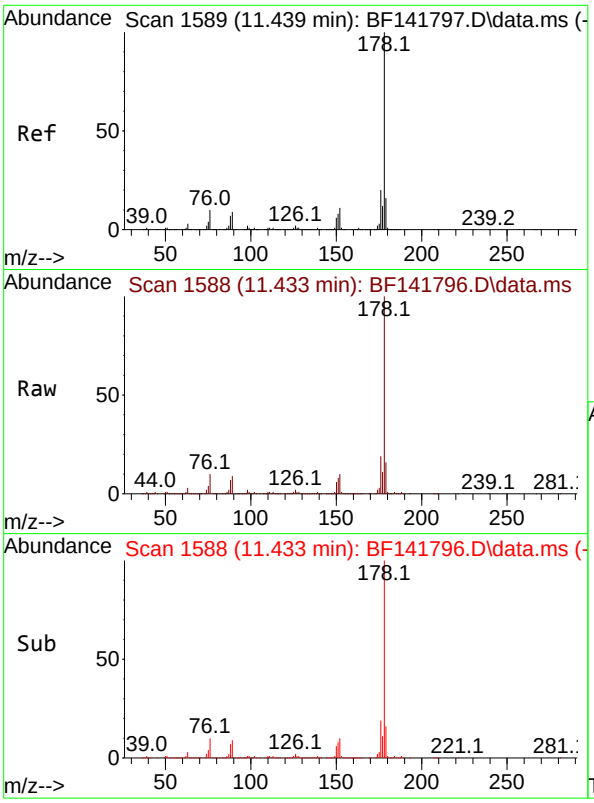


#70
Pentachlorophenol
Concen: 20.521 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:266 Resp: 167231

Ion	Ratio	Lower	Upper
266	100		
268	63.5	50.9	76.3
264	63.6	50.2	75.4

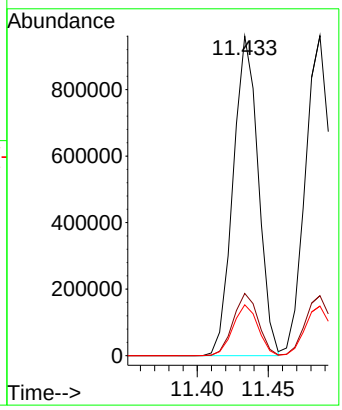




#71
Phenanthrene
Concen: 21.209 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 118176

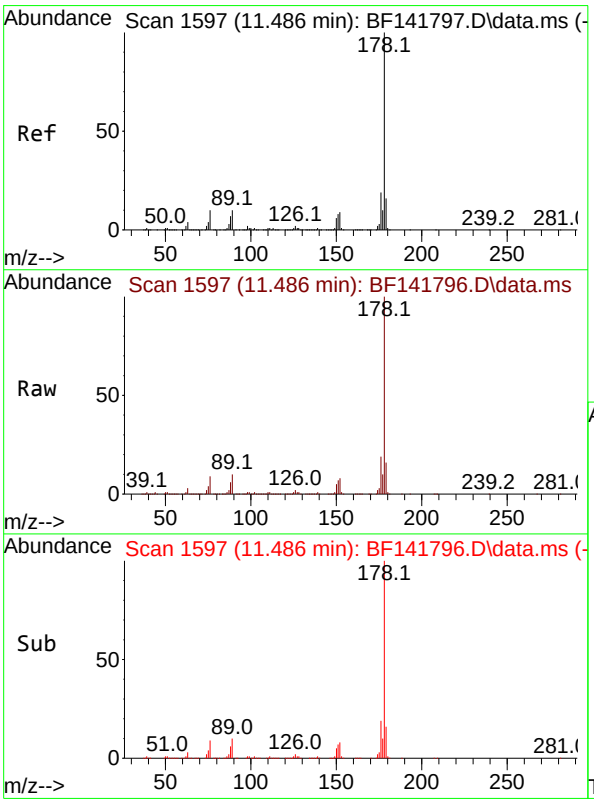
Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.9	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

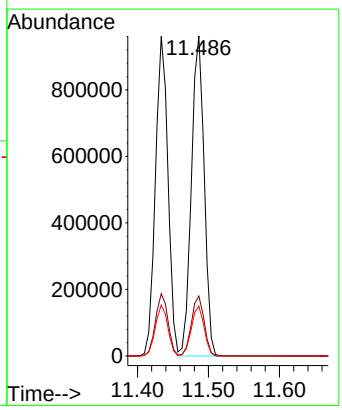
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

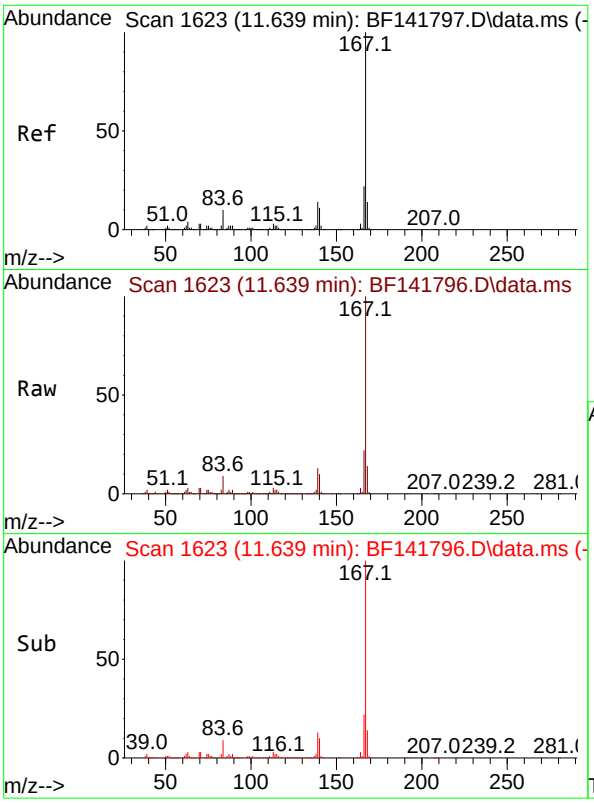


#72
Anthracene
Concen: 21.554 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 1203701

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.5	12.8	19.2

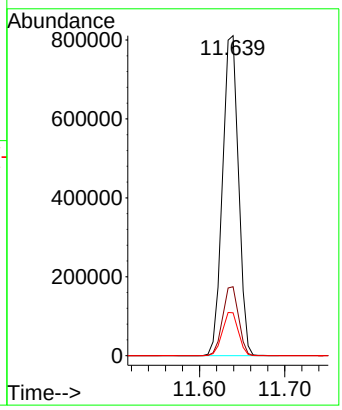




#73
Carbazole
Concen: 21.416 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:167 Resp: 105614

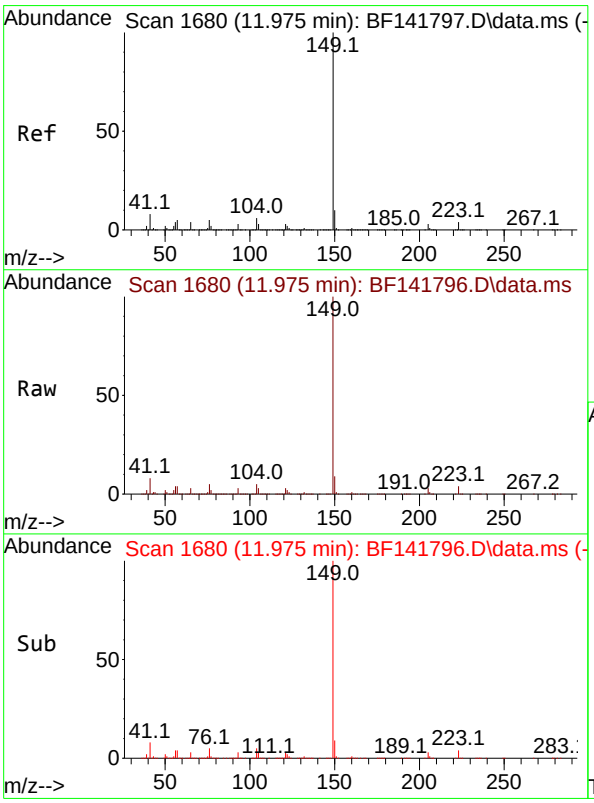
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.5	26.3
139	13.4	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

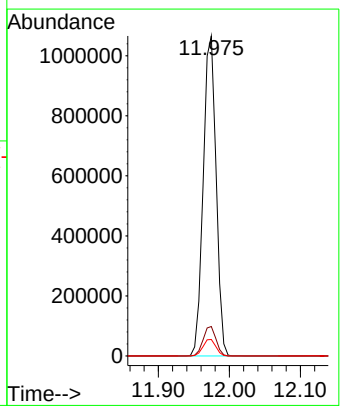
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

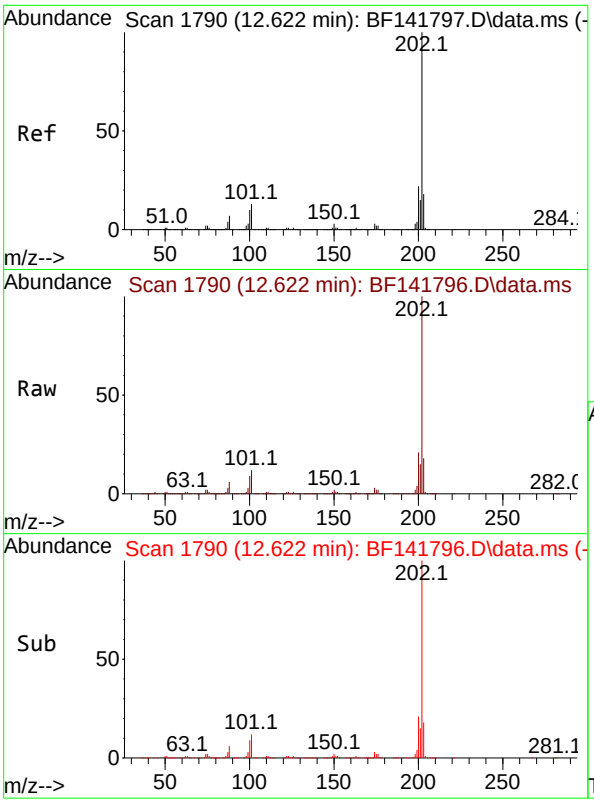


#74
Di-n-butylphthalate
Concen: 21.518 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 1345098

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.7	11.5
104	5.2	4.4	6.6

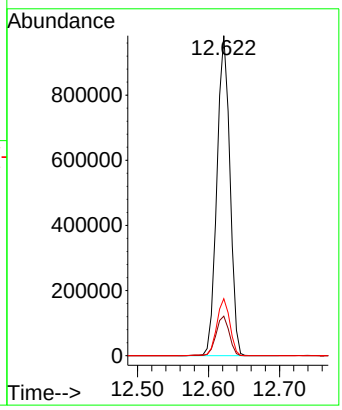




#75
Fluoranthene
Concen: 21.753 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 124203

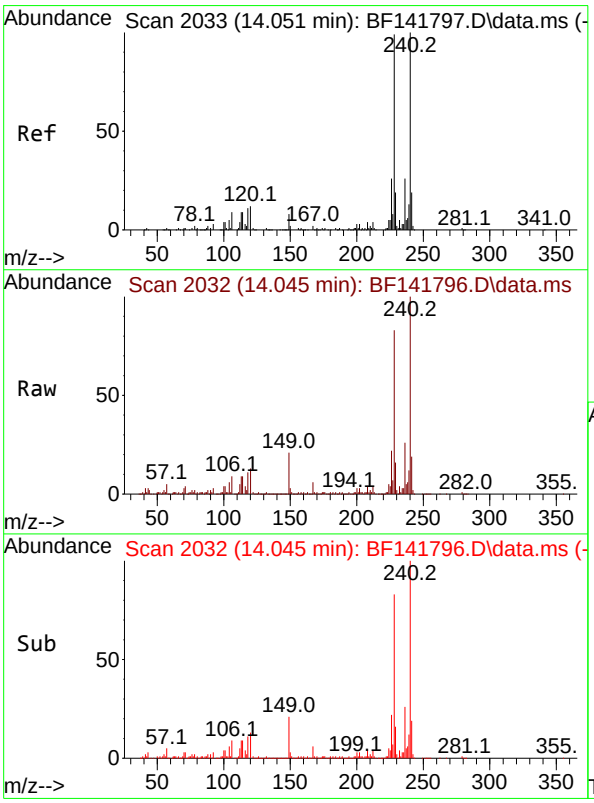
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	32.8
203	17.8	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

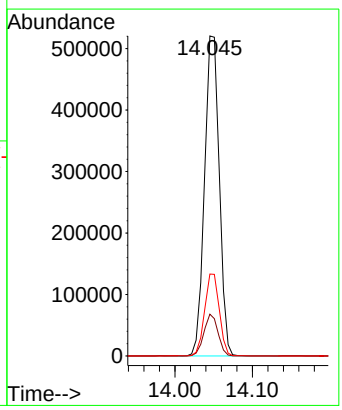
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

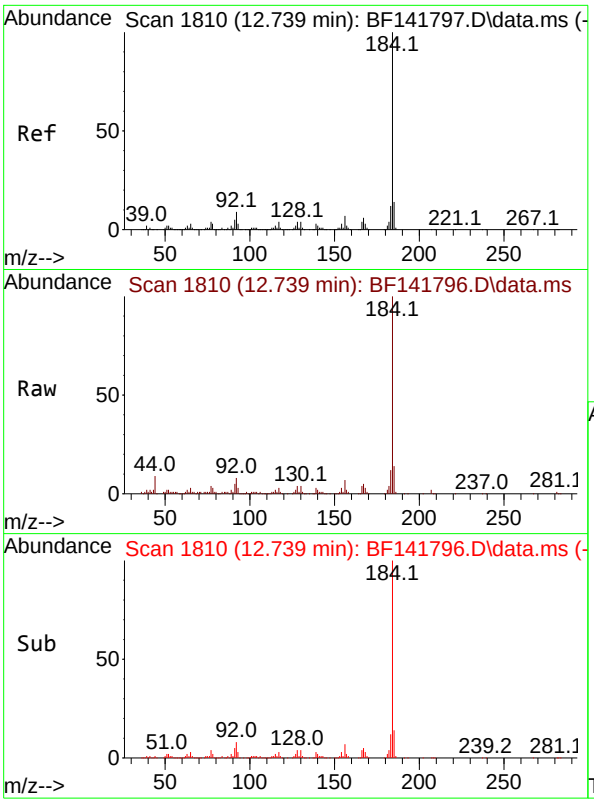


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:240 Resp: 688606

Ion	Ratio	Lower	Upper
240	100		
120	13.1	9.7	14.5
236	25.6	21.0	31.4

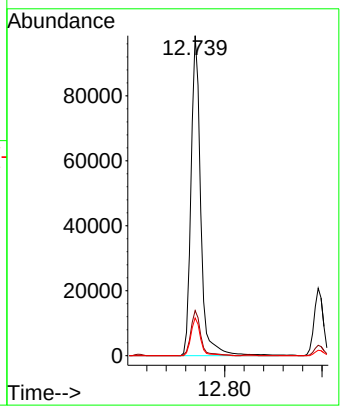




#77
Benzidine
Concen: 15.752 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 13652

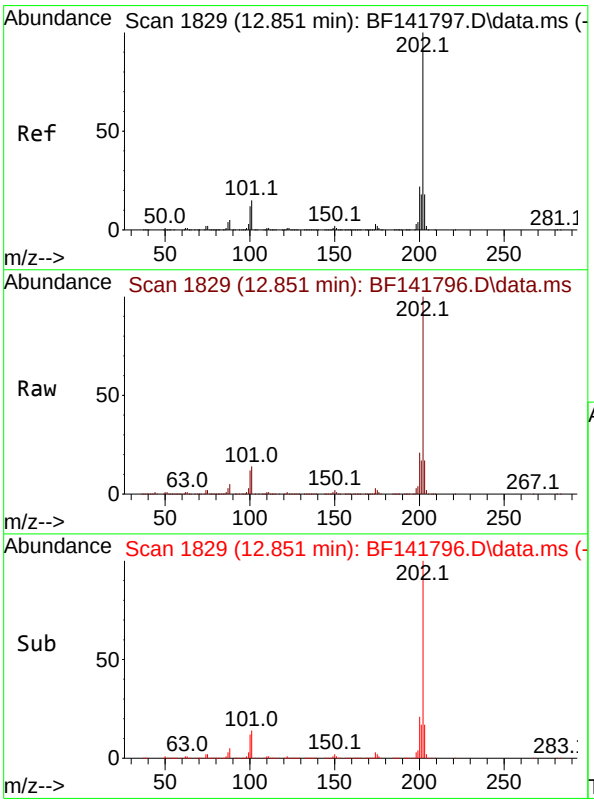
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.8	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

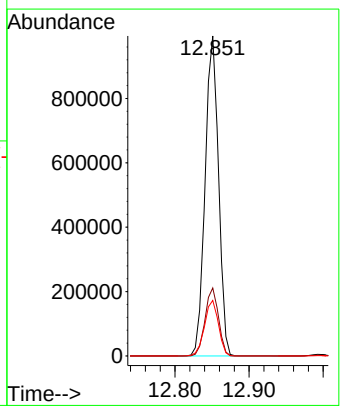
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

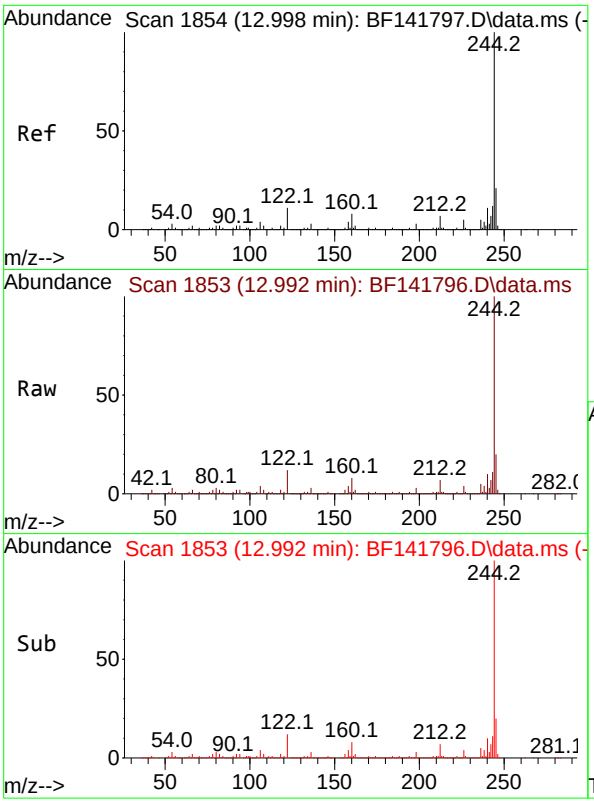


#78
Pyrene
Concen: 20.957 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 1249647

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	17.4	14.6	22.0

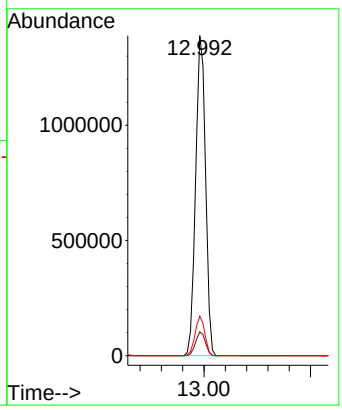




#79
Terphenyl-d14
Concen: 41.959 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:244 Resp: 178580

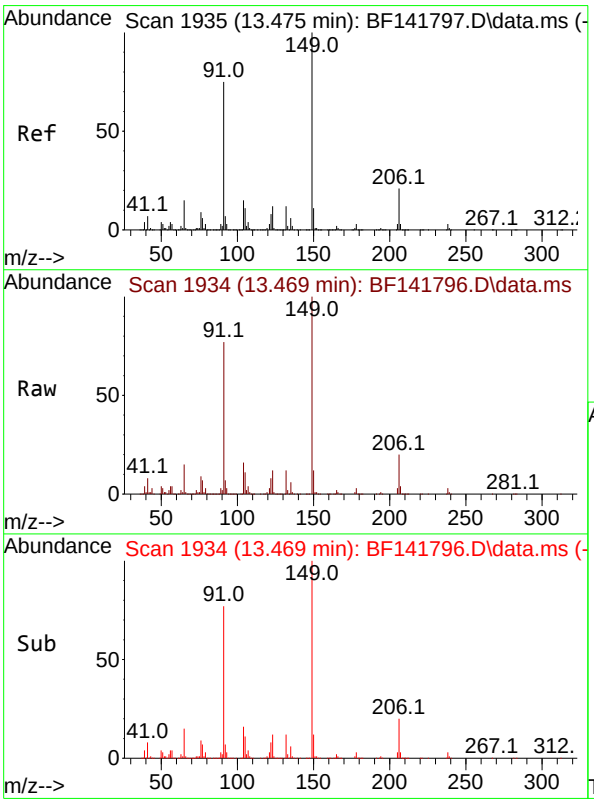
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	12.4	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

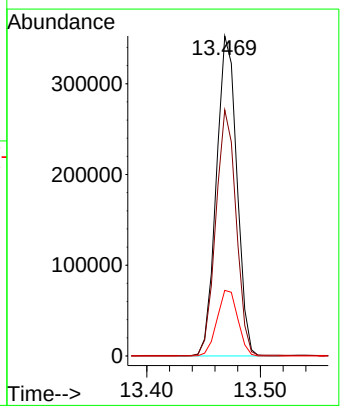
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

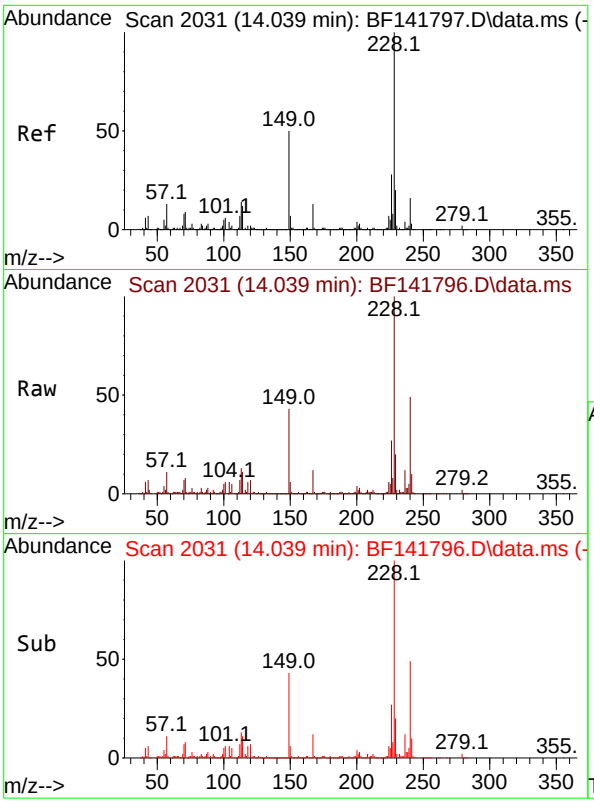


#80
Butylbenzylphthalate
Concen: 20.434 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 442702

Ion	Ratio	Lower	Upper
149	100		
91	76.9	60.1	90.1
206	20.5	16.8	25.2

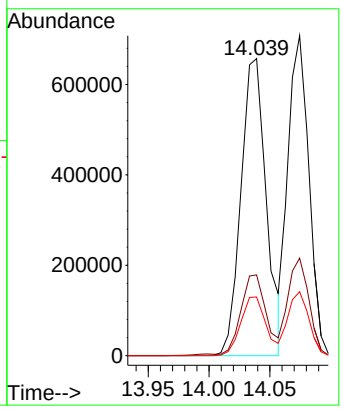




#81
Benzo(a)anthracene
Concen: 20.956 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 95314

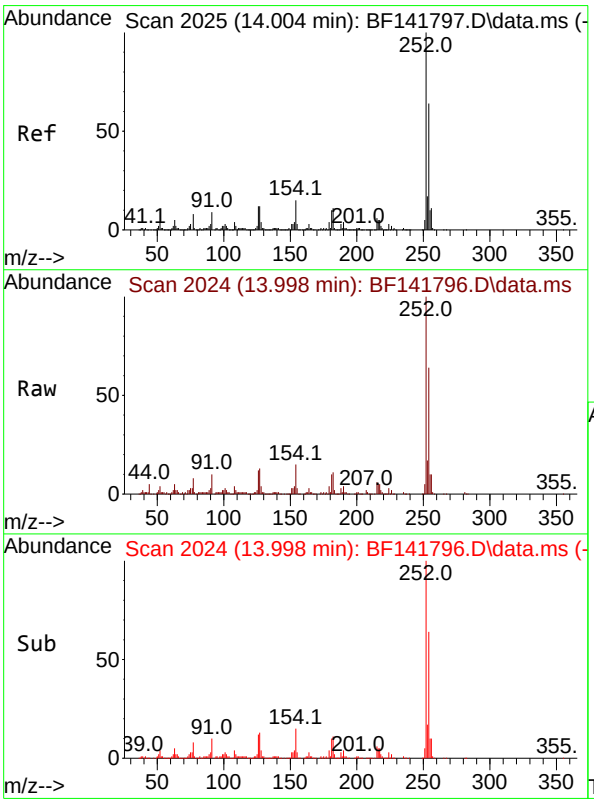
Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

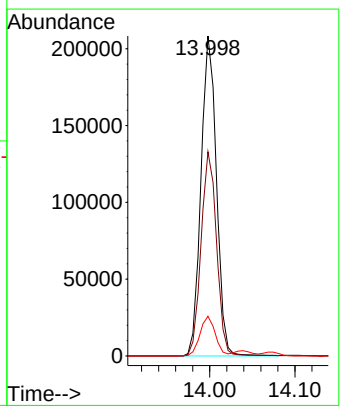
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

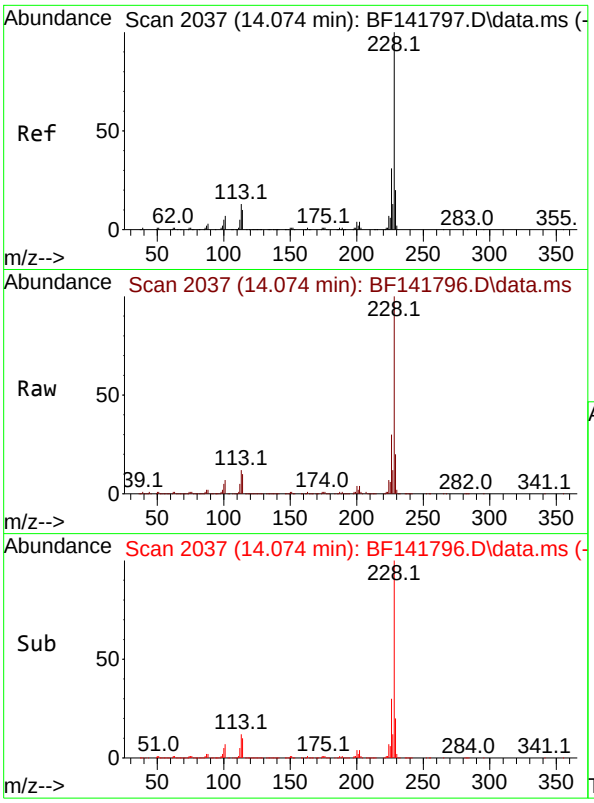


#82
3,3'-Dichlorobenzidine
Concen: 20.132 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 262708

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.4	77.0
126	12.4	9.8	14.6

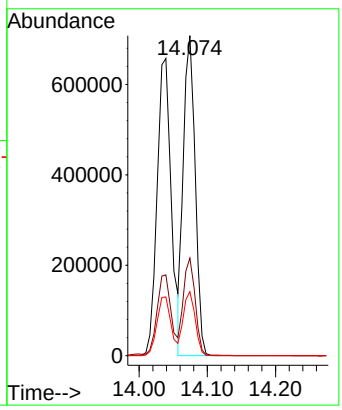




#83
Chrysene
Concen: 20.288 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 85064

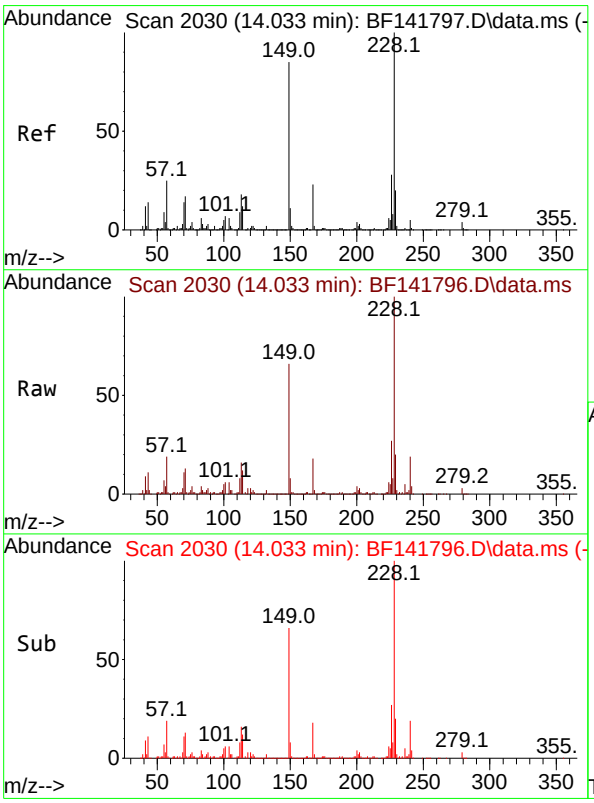
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

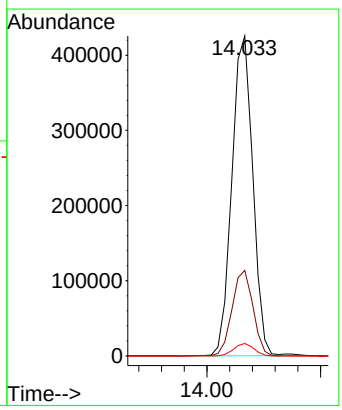
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

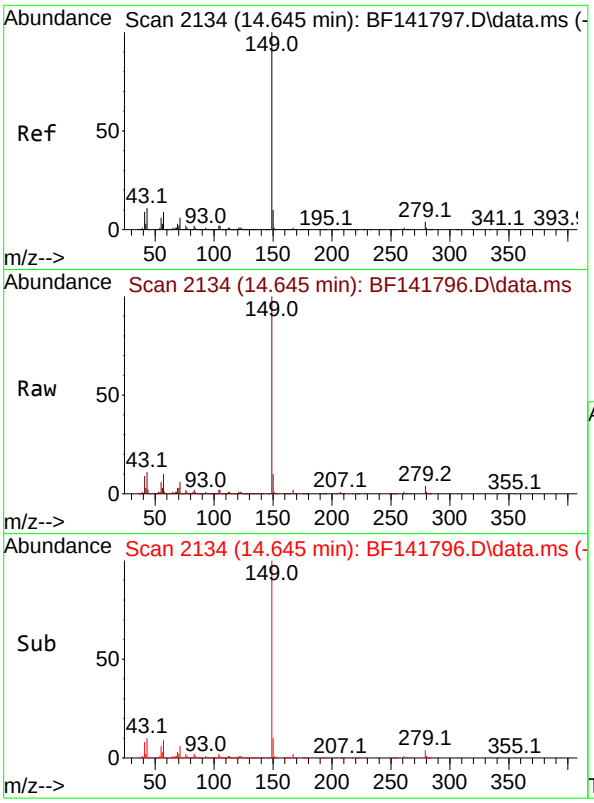


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.122 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 542812

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.2	31.8
279	3.9	3.3	4.9

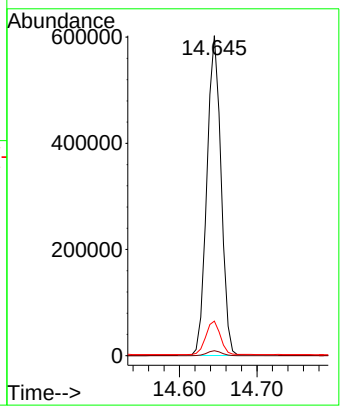




#85
Di-n-octyl phthalate
Concen: 18.910 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 76368

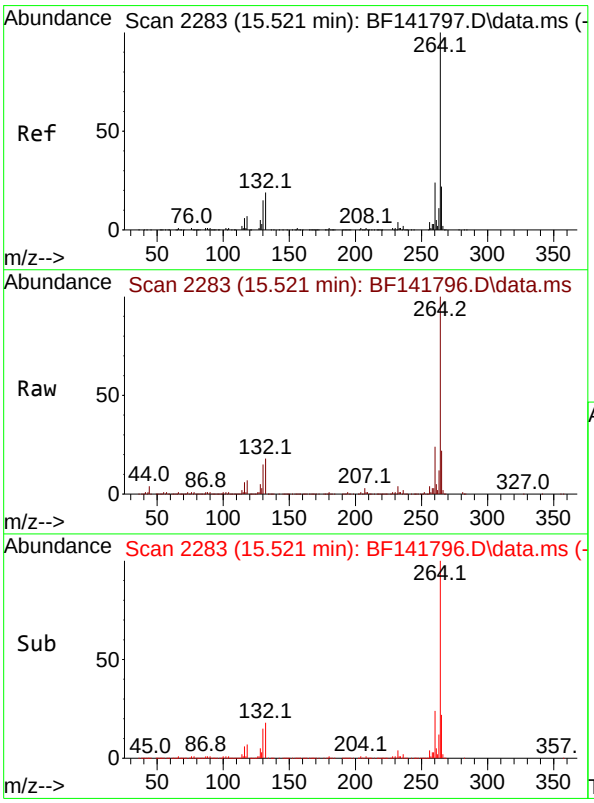
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.7	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

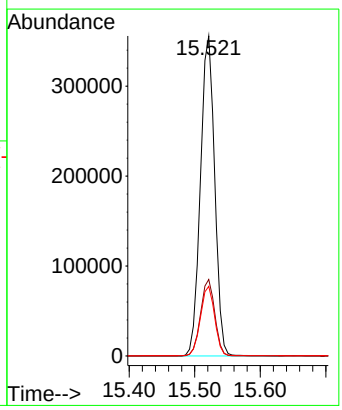
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

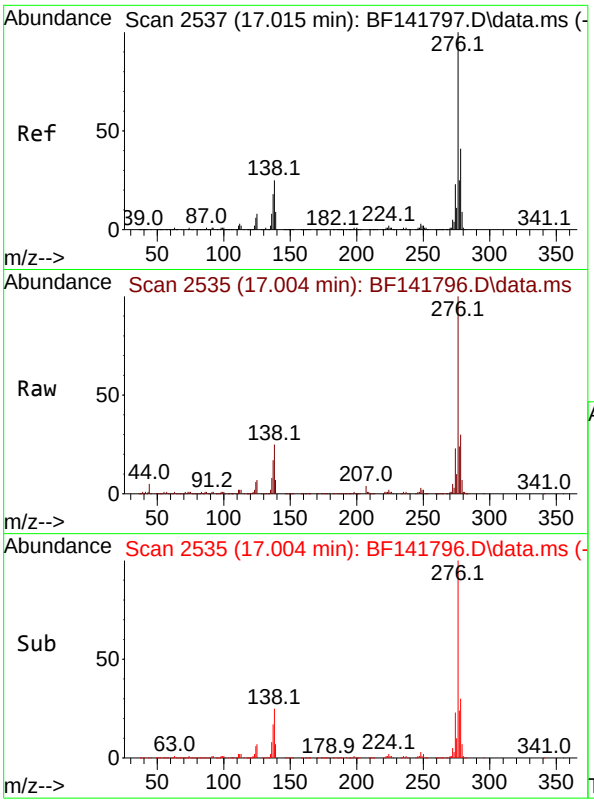


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:264 Resp: 539147

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	21.7	17.4	26.0

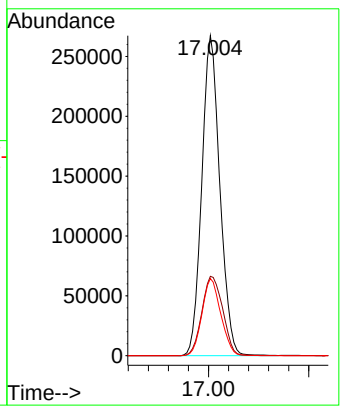




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.480 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 66877

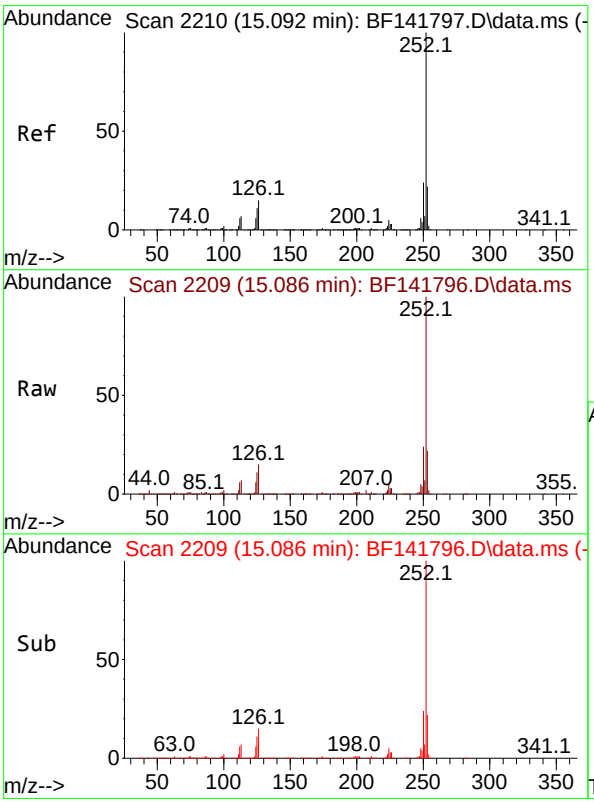
Ion	Ratio	Lower	Upper
276	100		
138	28.5	22.5	33.7
277	25.1	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

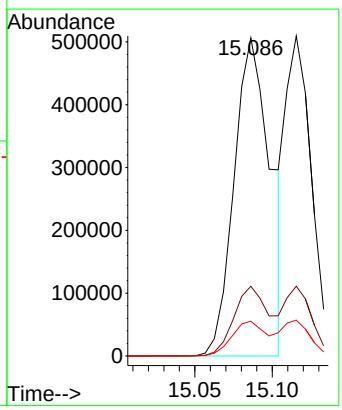
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

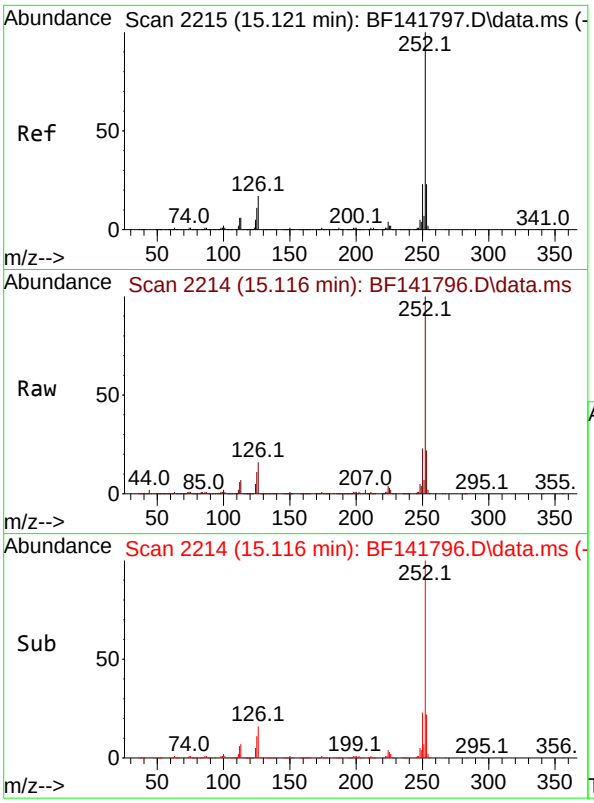


#88
Benzo(b)fluoranthene
Concen: 22.501 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 826369

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	10.9	8.6	13.0

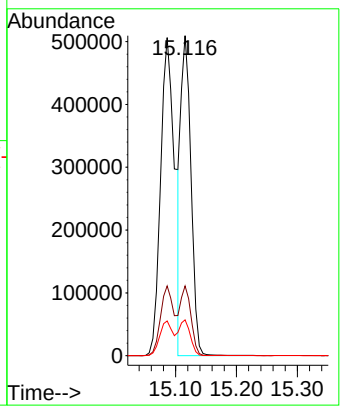




#89
Benzo(k)fluoranthene
Concen: 18.973 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 59225

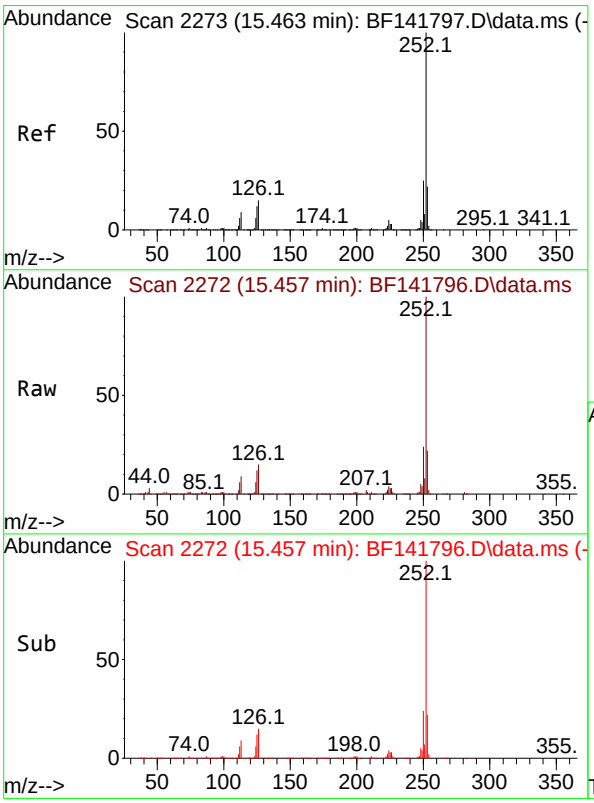
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.8
125	11.2	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

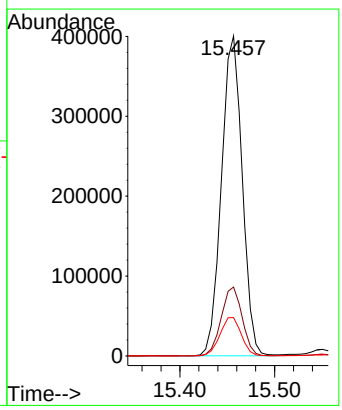
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

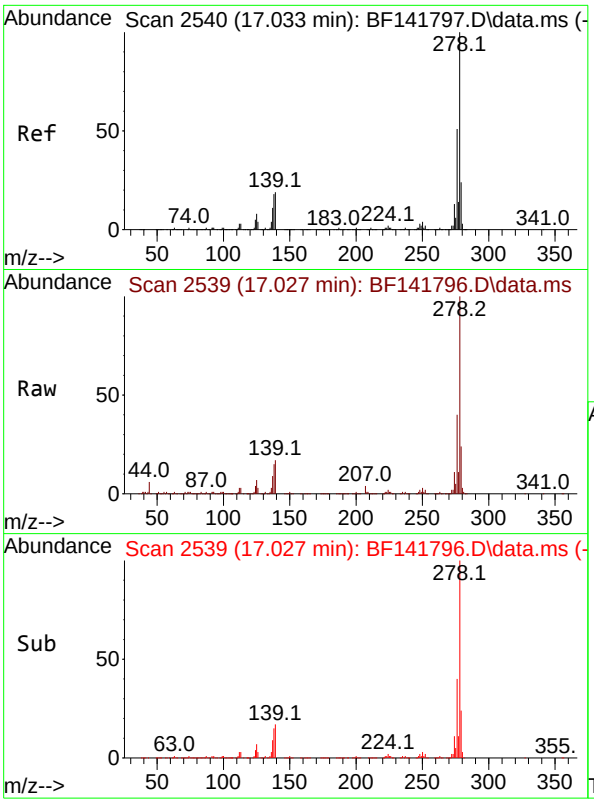


#90
Benzo(a)pyrene
Concen: 20.740 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 610871

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	12.0	9.4	14.2

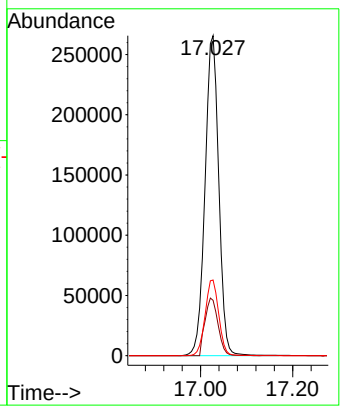




#91
Dibenzo(a,h)anthracene
Concen: 19.724 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:278 Resp: 55272

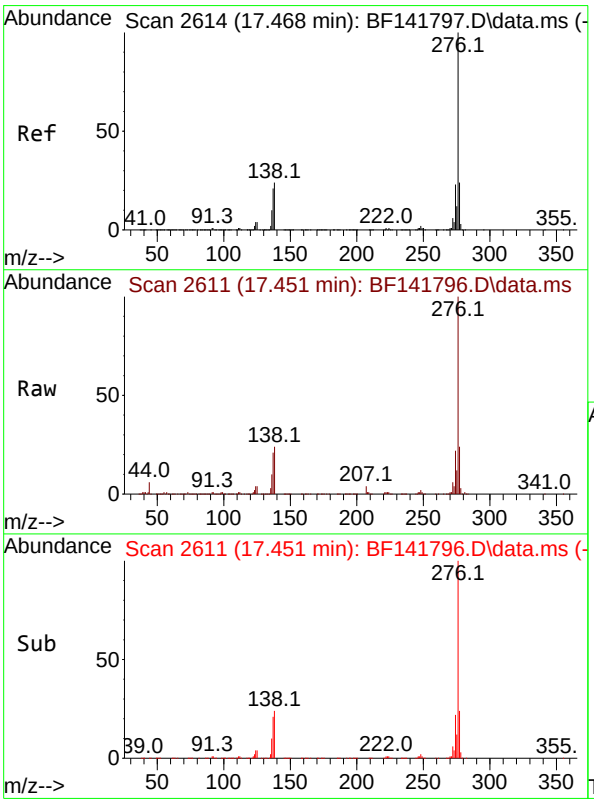
Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

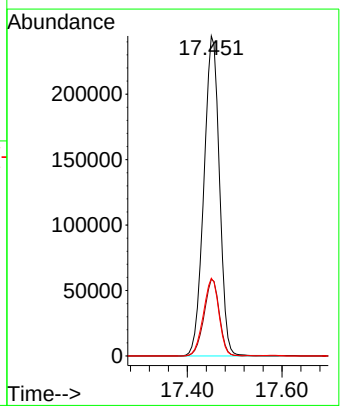
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 19.426 ng
RT: 17.451 min Scan# 2611
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 557705

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.4	29.0
138	24.3	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	288066	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	1155717	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	625246	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1031875	20.000	ng	0.00
76) Chrysene-d12	14.051	240	629307	20.000	ng	0.00
86) Perylene-d12	15.521	264	567240	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1481716	82.144	ng	0.00
7) Phenol-d6	6.510	99	1940706	82.660	ng	0.00
23) Nitrobenzene-d5	7.451	82	1577764	87.263	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	498702	84.959	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	3094072	79.348	ng	0.00
79) Terphenyl-d14	12.998	244	3170442	81.511	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.687	88	343299	41.944	ng	100
3) Pyridine	3.452	79	850494	41.764	ng	100
4) n-Nitrosodimethylamine	3.405	42	420465	42.911	ng	100
6) Aniline	6.557	93	1042452	42.941	ng	100
8) 2-Chlorophenol	6.675	128	813316	41.681	ng	100
9) Benzaldehyde	6.440	77	565698	41.423	ng	100
10) Phenol	6.522	94	1048185	41.904	ng	100
11) bis(2-Chloroethyl)ether	6.628	93	771641	40.349	ng	100
12) 1,3-Dichlorobenzene	6.834	146	866494	41.465	ng	100
13) 1,4-Dichlorobenzene	6.910	146	871351	41.384	ng	100
14) 1,2-Dichlorobenzene	7.063	146	807407	41.065	ng	100
15) Benzyl Alcohol	7.028	79	787264	41.957	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1197610	41.236	ng	100
17) 2-Methylphenol	7.134	107	670597	41.635	ng	100
18) Hexachloroethane	7.404	117	332747	42.223	ng	100
19) n-Nitroso-di-n-propyla...	7.304	70	626390	40.586	ng	100
20) 3+4-Methylphenols	7.287	107	830533	41.411	ng	100
22) Acetophenone	7.298	105	1147737	40.776	ng	100
24) Nitrobenzene	7.475	77	839887	43.379	ng	100
25) Isophorone	7.710	82	1575854	40.569	ng	100
26) 2-Nitrophenol	7.787	139	332584	39.357	ng	100
27) 2,4-Dimethylphenol	7.816	122	588158	41.191	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	1006606	40.624	ng	100
29) 2,4-Dichlorophenol	8.022	162	688860	41.819	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	737573	40.863	ng	100
31) Naphthalene	8.193	128	2410915	40.588	ng	100
32) Benzoic acid	7.934	122	442477	38.870	ng	100
33) 4-Chloroaniline	8.240	127	877082	40.271	ng	100
34) Hexachlorobutadiene	8.310	225	459338	40.952	ng	100
35) Caprolactam	8.610	113	211331m	41.695	ng	
36) 4-Chloro-3-methylphenol	8.710	107	752961	41.148	ng	100
37) 2-Methylnaphthalene	8.881	142	1565422	40.179	ng	100
38) 1-Methylnaphthalene	8.981	142	1506039	40.286	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	736508	40.786	ng	100
41) Hexachlorocyclopentadiene	9.040	237	323162	42.882	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	497182	42.623	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	478749	41.448	ng	100
46) 1,1'-Biphenyl	9.351	154	1899694	39.917	ng	100
47) 2-Chloronaphthalene	9.375	162	1419149	40.402	ng	100
48) 2-Nitroaniline	9.463	65	375120	39.827	ng	100
49) Acenaphthylene	9.792	152	2139722	40.629	ng	100
50) Dimethylphthalate	9.651	163	1704601	40.710	ng	100
51) 2,6-Dinitrotoluene	9.710	165	321129	40.557	ng	100
52) Acenaphthene	9.963	154	1437821	40.461	ng	100
53) 3-Nitroaniline	9.875	138	346294	41.045	ng	100
54) 2,4-Dinitrophenol	9.975	184	115933	39.874	ng	100
55) Dibenzofuran	10.134	168	2079139	40.198	ng	100
56) 4-Nitrophenol	10.022	139	285537	46.172	ng	100
57) 2,4-Dinitrotoluene	10.110	165	391858	40.635	ng	100
58) Fluorene	10.475	166	1536139	39.650	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	424277	42.235	ng	100
60) Diethylphthalate	10.351	149	1729522	41.203	ng	100
61) 4-Chlorophenyl-phenyle...	10.469	204	775274	39.939	ng	100
62) 4-Nitroaniline	10.492	138	333830	46.685	ng	100
63) Azobenzene	10.628	77	1796906	40.657	ng	100
65) 4,6-Dinitro-2-methylph...	10.516	198	179018	38.731	ng	100
66) n-Nitrosodiphenylamine	10.586	169	1371761	40.485	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	490816	40.722	ng	100
68) Hexachlorobenzene	11.022	284	518266	40.721	ng	100
69) Atrazine	11.110	200	369439	39.649	ng	100
70) Pentachlorophenol	11.210	266	347791	43.086	ng	100
71) Phenanthrene	11.439	178	2214957	40.130	ng	100
72) Anthracene	11.486	178	2204147	39.845	ng	100
73) Carbazole	11.639	167	1971491	40.358	ng	100
74) Di-n-butylphthalate	11.975	149	2493783	40.274	ng	100
75) Fluoranthene	12.622	202	2248284	39.753	ng	100
77) Benzidine	12.739	184	326609	41.235	ng	100
78) Pyrene	12.851	202	2259888	41.470	ng	100
80) Butylbenzylphthalate	13.475	149	840509	42.452	ng	100
81) Benzo(a)anthracene	14.039	228	1651930	39.742	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	494528	41.467	ng	100
83) Chrysene	14.074	228	1591812	41.543	ng	100
84) Bis(2-ethylhexyl)phtha...	14.033	149	1046693	42.458	ng	100
85) Di-n-octyl phthalate	14.645	149	1644901	44.568	ng	100
87) Indeno(1,2,3-cd)pyrene	17.015	276	1526575	42.264	ng	100
88) Benzo(b)fluoranthene	15.092	252	1481931	38.353	ng	100
89) Benzo(k)fluoranthene	15.121	252	1377470	41.943	ng	100
90) Benzo(a)pyrene	15.463	252	1269914	40.981	ng	100
91) Dibenzo(a,h)anthracene	17.033	278	1257866	42.664	ng	100
92) Benzo(g,h,i)perylene	17.468	276	1281590	42.430	ng	100

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

ICAL Form

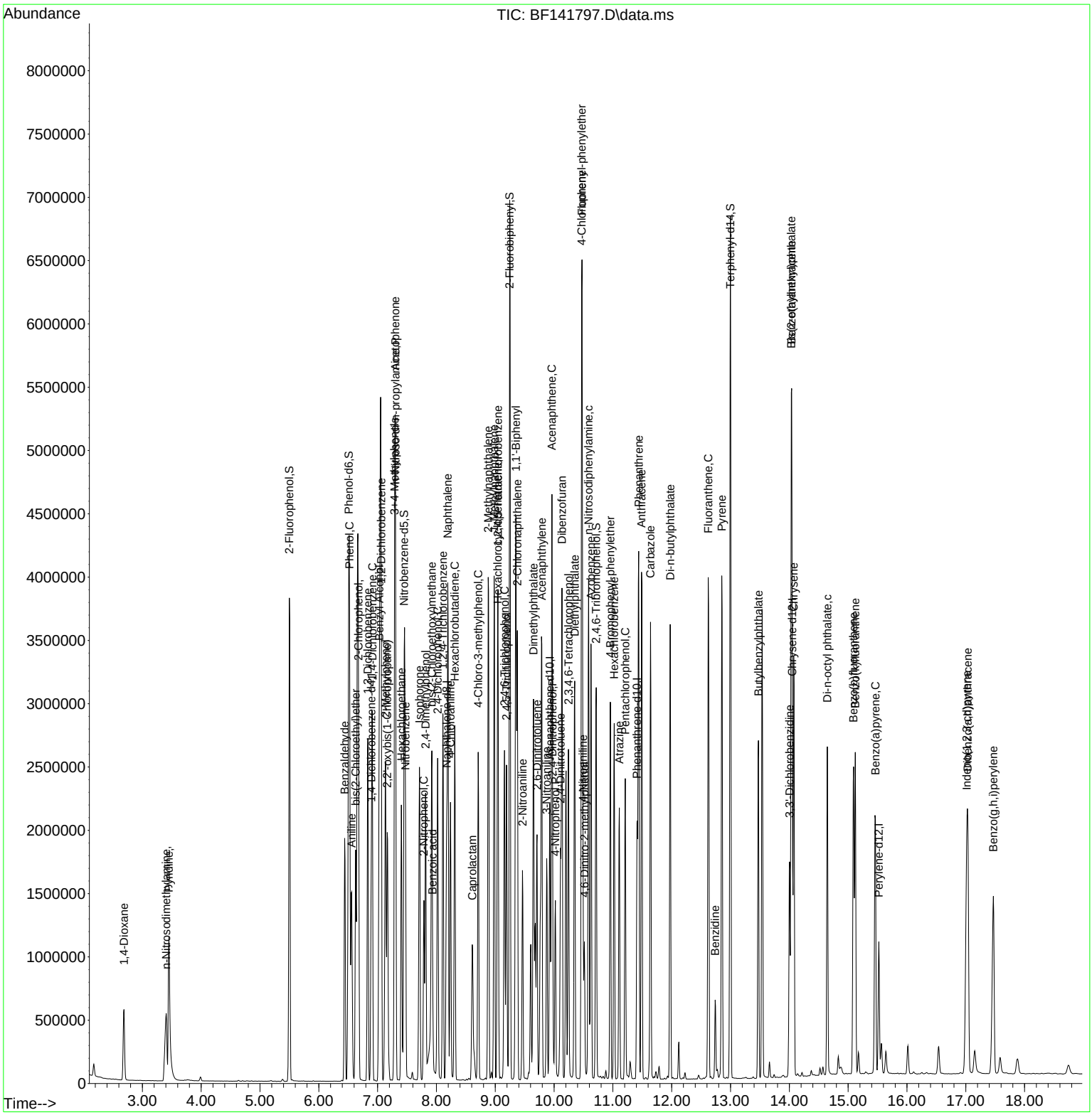
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

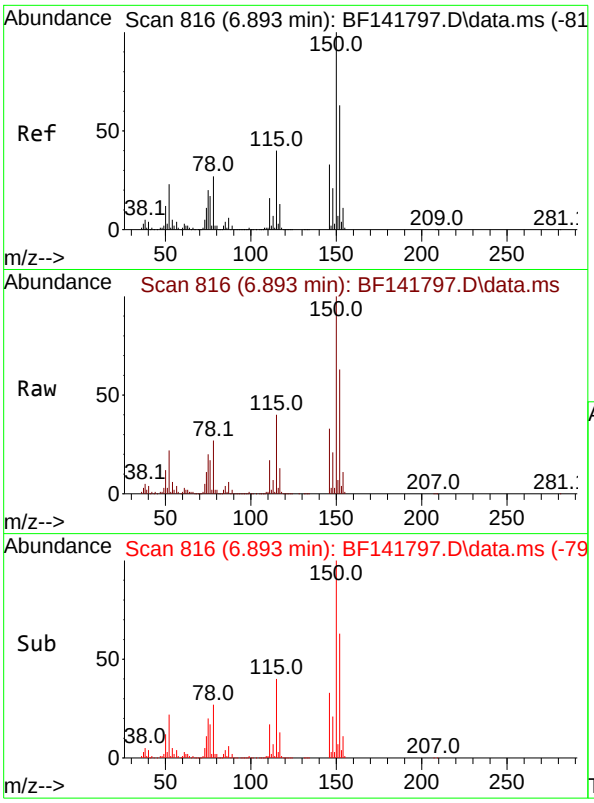
Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

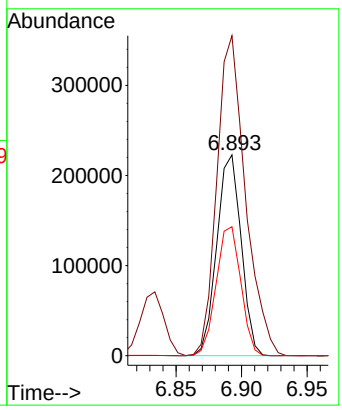




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:152 Resp: 28806

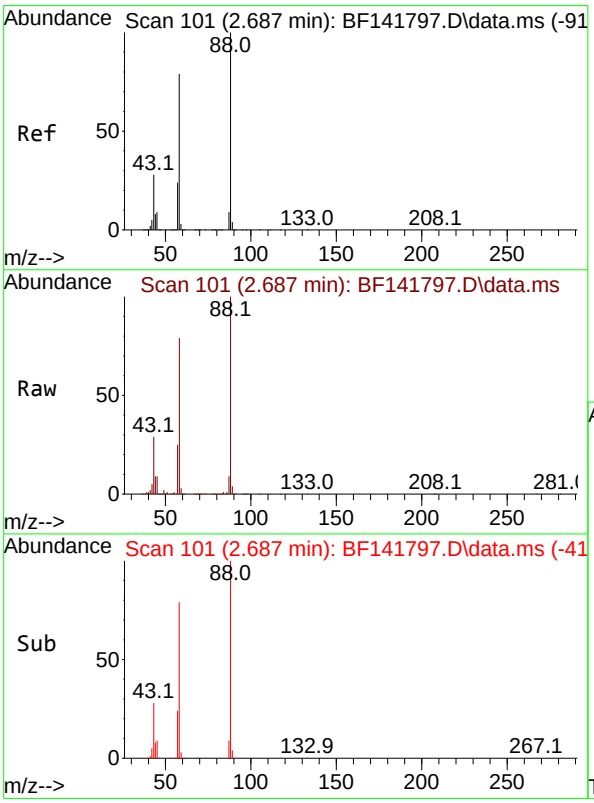
Ion	Ratio	Lower	Upper
152	100		
150	159.4	127.5	191.3
115	64.3	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

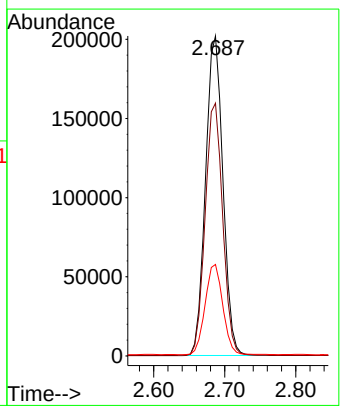
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

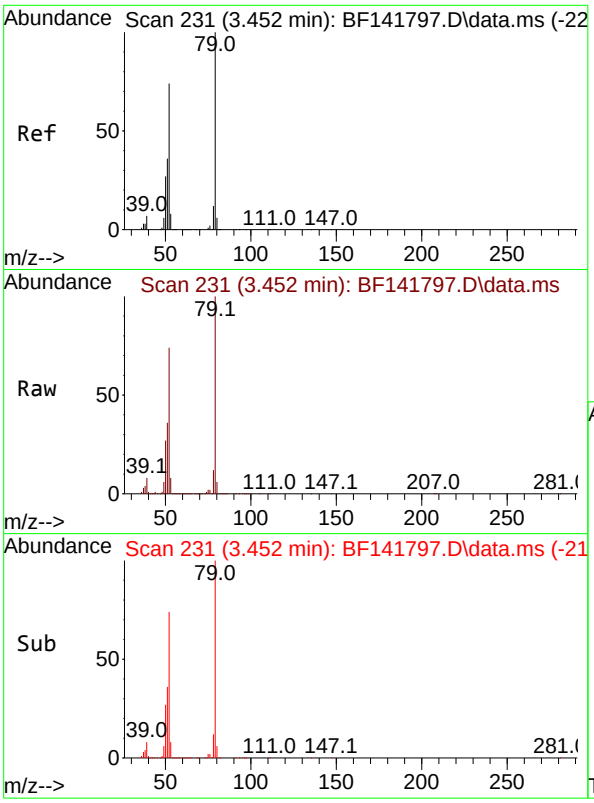


#2
1,4-Dioxane
Concen: 41.944 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 88 Resp: 343299

Ion	Ratio	Lower	Upper
88	100		
58	79.9	63.9	95.9
43	28.8	23.0	34.6





#3
Pyridine
Concen: 41.764 ng
RT: 3.452 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

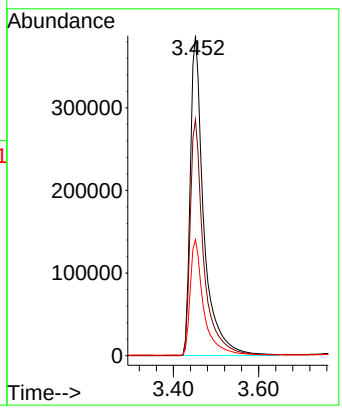
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

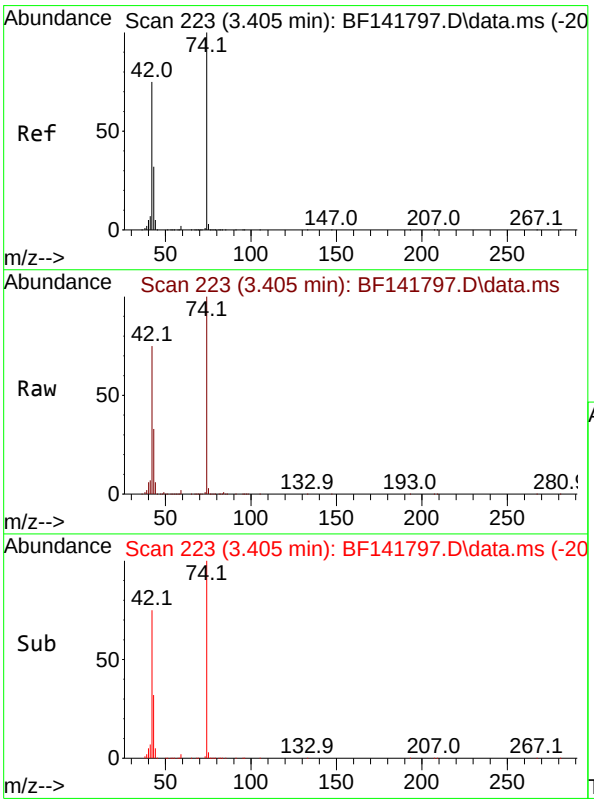
Tgt Ion: 79 Resp: 85049

Ion	Ratio	Lower	Upper
79	100		
52	73.7	59.0	88.4
51	36.2	29.0	43.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

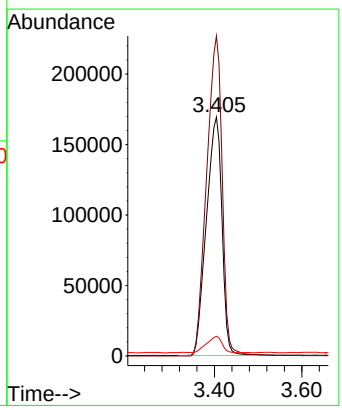


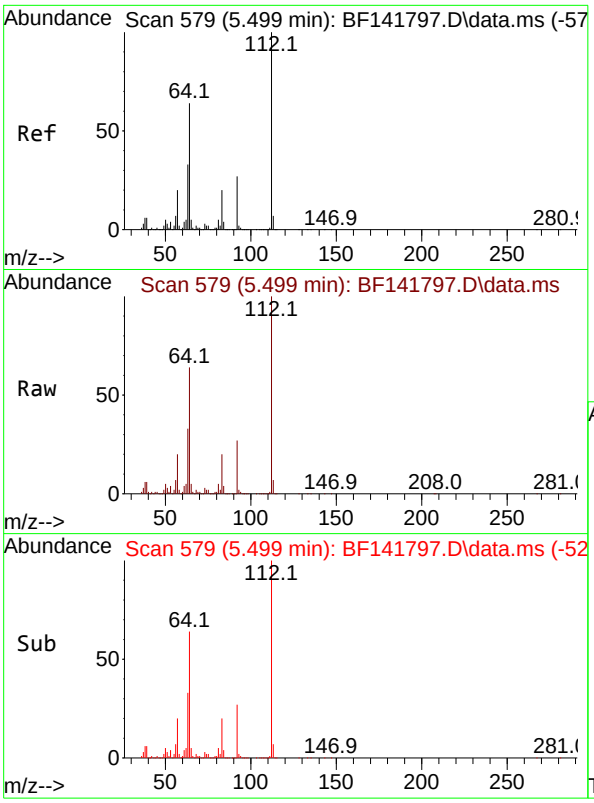


#4
n-Nitrosodimethylamine
Concen: 42.911 ng
RT: 3.405 min Scan# 223
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 42 Resp: 420465

Ion	Ratio	Lower	Upper
42	100		
74	133.9	107.1	160.7
44	8.2	6.6	9.8





#5
2-Fluorophenol
Concen: 82.144 ng
RT: 5.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

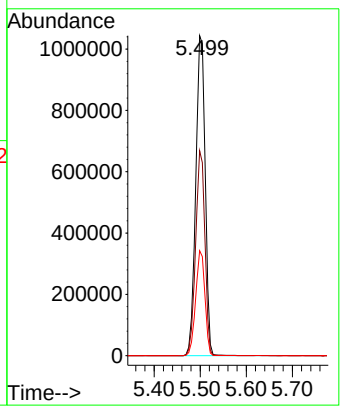
Tgt Ion:112 Resp: 148171(

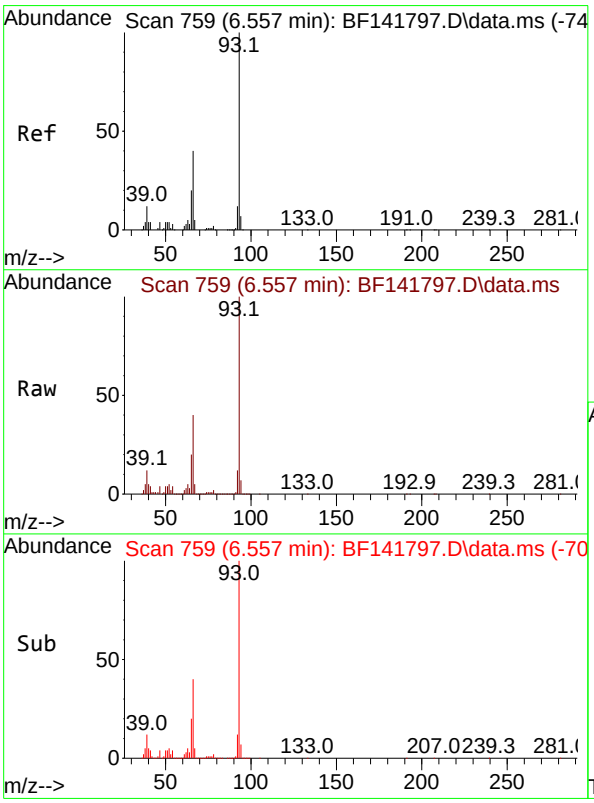
Ion	Ratio	Lower	Upper
112	100		
64	64.1	51.3	76.9
63	32.8	26.2	39.4

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

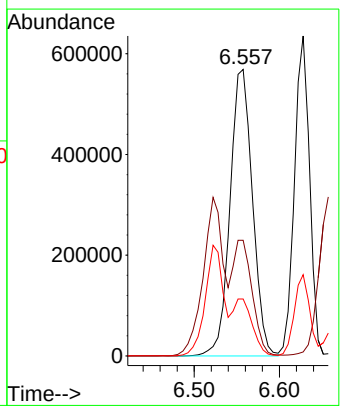


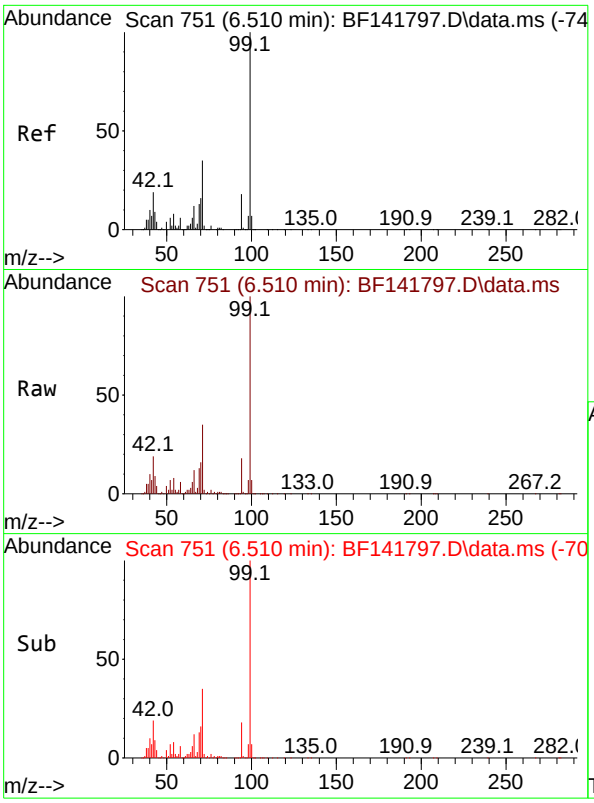


#6
Aniline
Concen: 42.941 ng
RT: 6.557 min Scan# 759
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 1042452

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	19.9	15.9	23.9

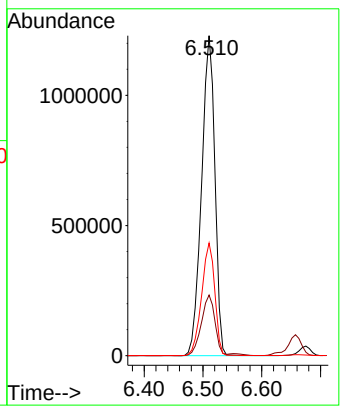




#7
Phenol-d6
Concen: 82.660 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 99 Resp: 194070

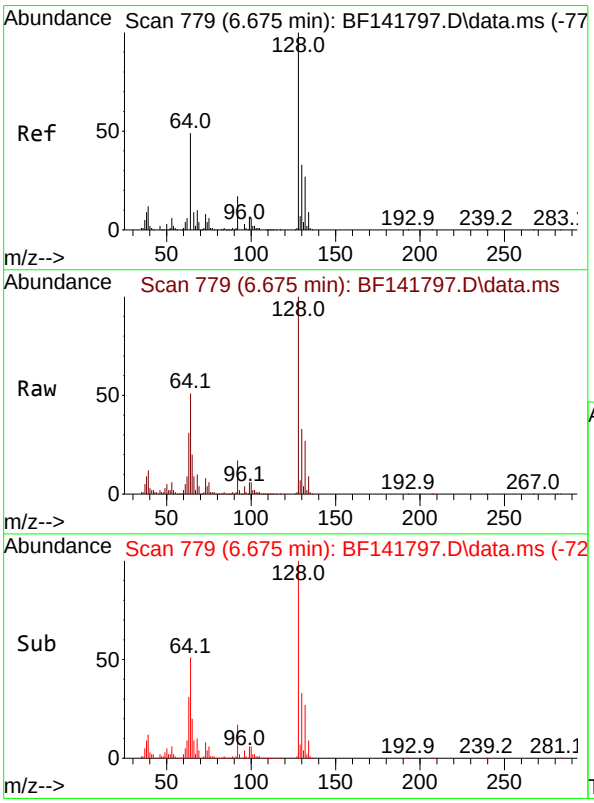
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	35.2	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

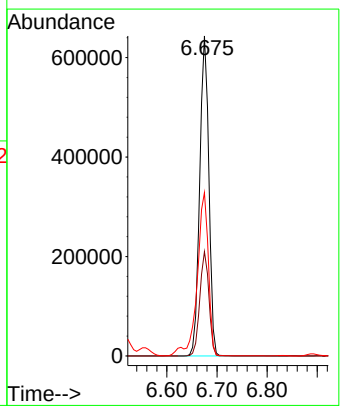
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

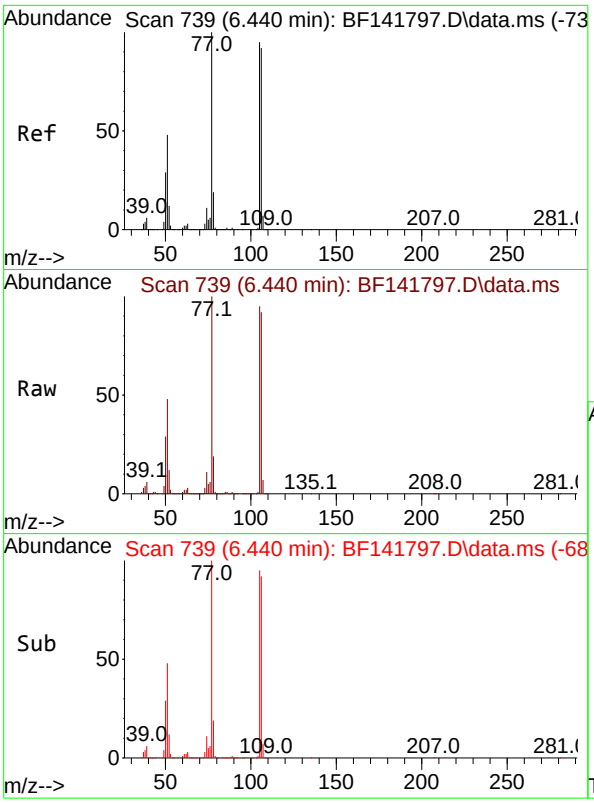


#8
2-Chlorophenol
Concen: 41.681 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 813316

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.6	52.6
64	51.1	31.1	71.1

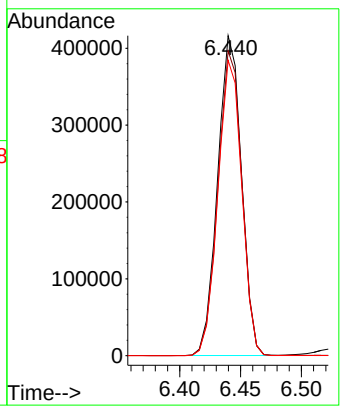




#9
Benzaldehyde
Concen: 41.423 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 56569

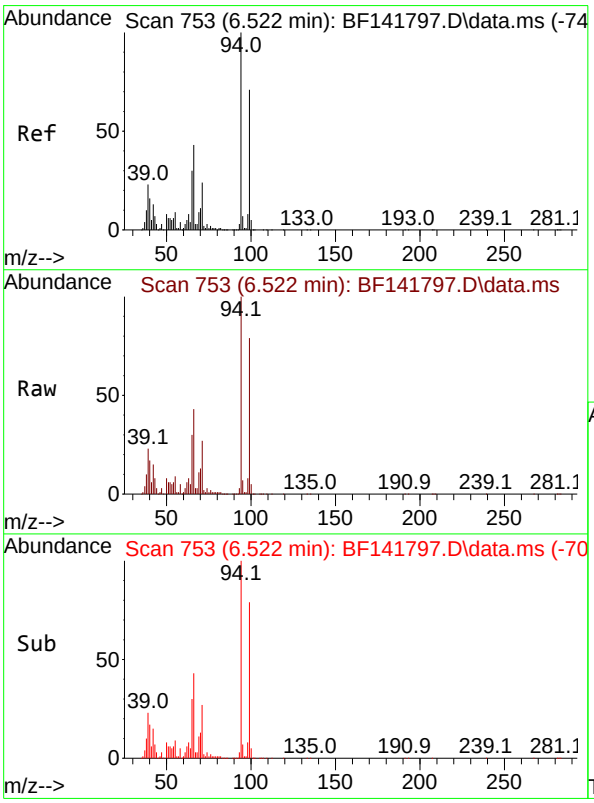
Ion	Ratio	Lower	Upper
77	100		
105	95.3	75.3	115.3
106	92.3	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

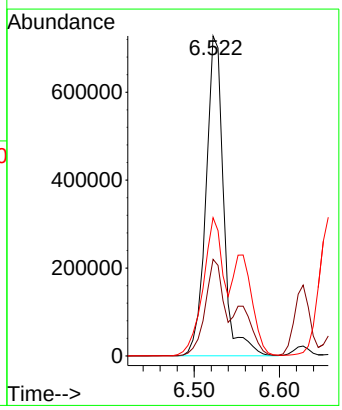
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

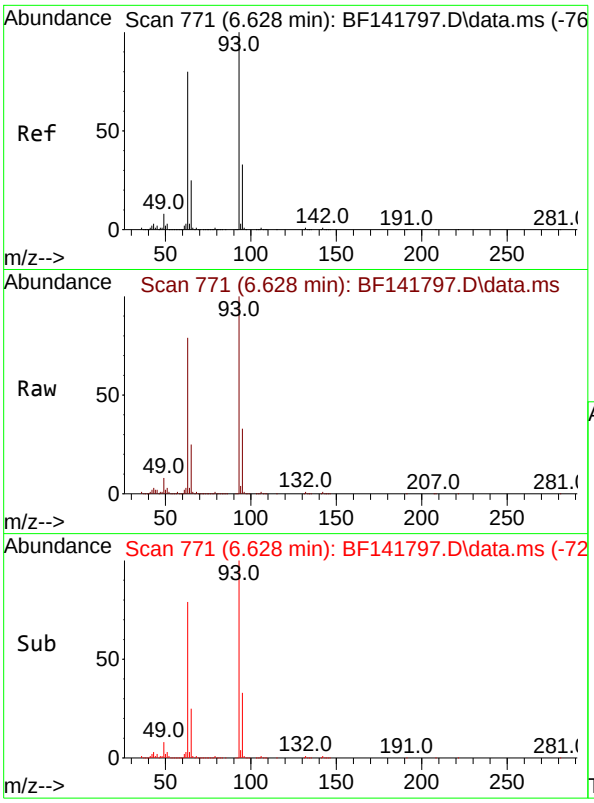


#10
Phenol
Concen: 41.904 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 94 Resp: 1048185

Ion	Ratio	Lower	Upper
94	100		
65	30.2	10.2	50.2
66	43.2	23.2	63.2

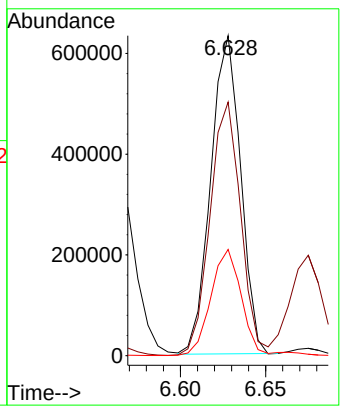




#11
bis(2-Chloroethyl)ether
Concen: 40.349 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 77164

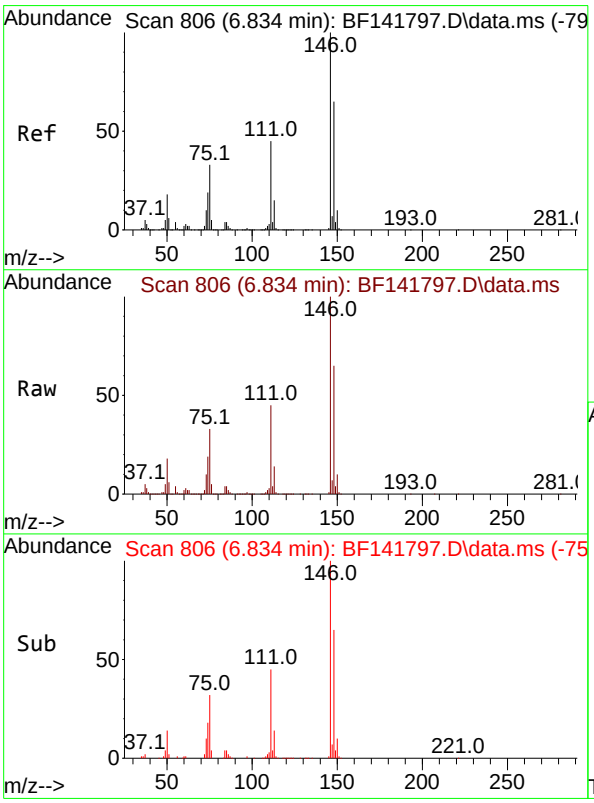
Ion	Ratio	Lower	Upper
93	100		
63	79.3	59.3	99.3
95	33.2	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

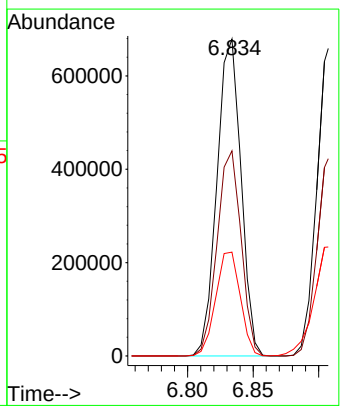
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

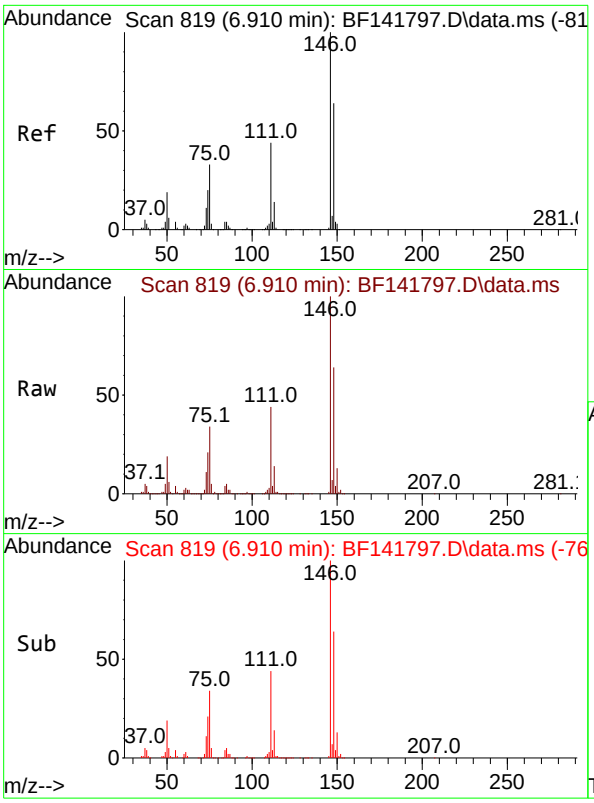


#12
1,3-Dichlorobenzene
Concen: 41.465 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 866494

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
75	32.8	26.2	39.4

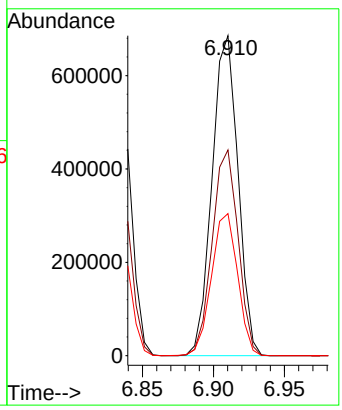




#13
1,4-Dichlorobenzene
Concen: 41.384 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 87135

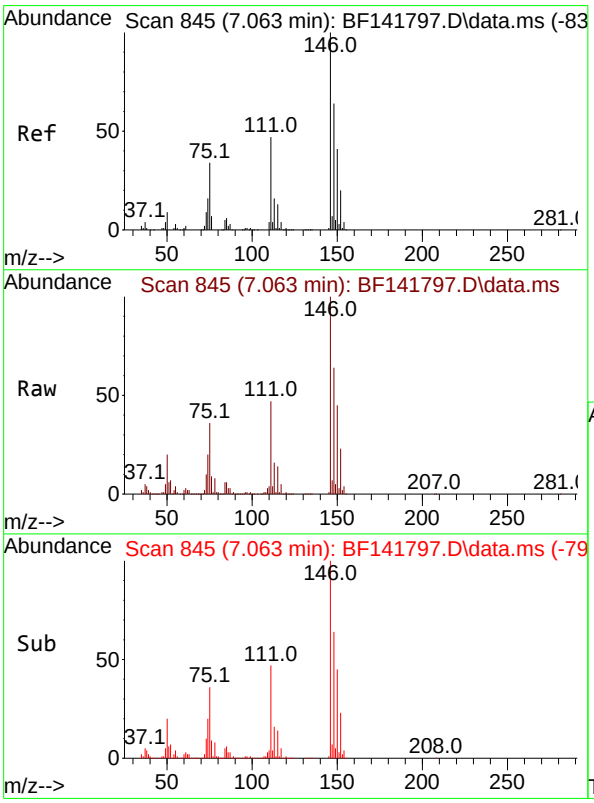
Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
111	44.4	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

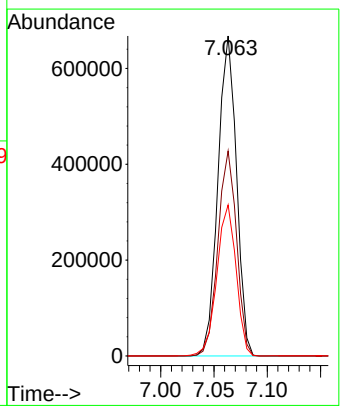
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

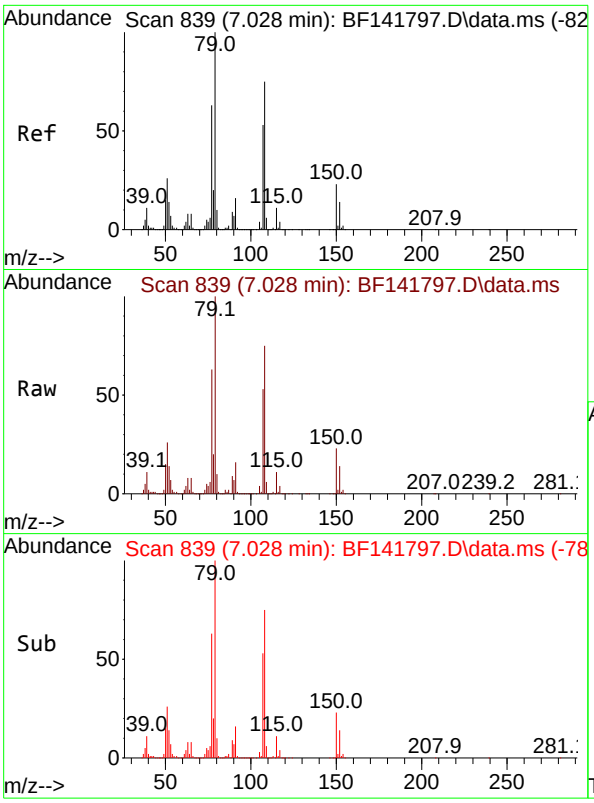


#14
1,2-Dichlorobenzene
Concen: 41.065 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 807407

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	47.2	37.8	56.6





#15
Benzyl Alcohol
Concen: 41.957 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

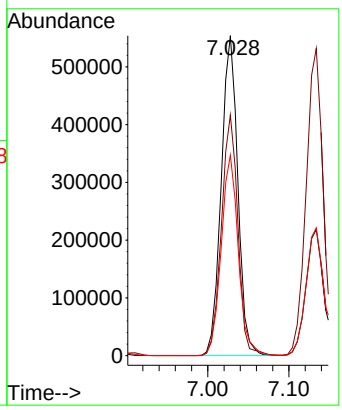
Tgt Ion: 79 Resp: 78726

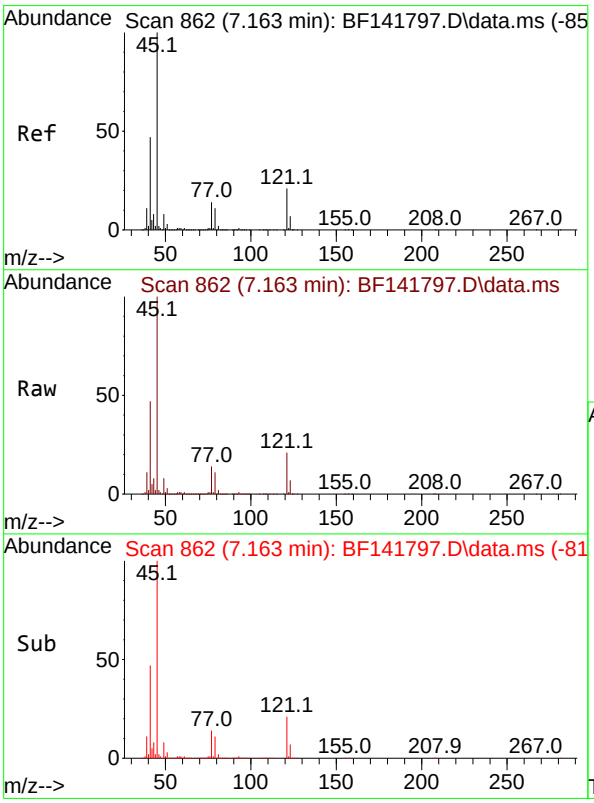
Ion	Ratio	Lower	Upper
79	100		
108	75.2	60.2	90.2
77	62.7	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

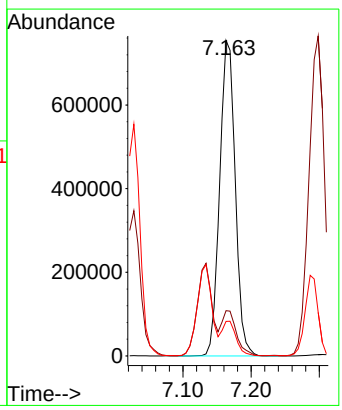


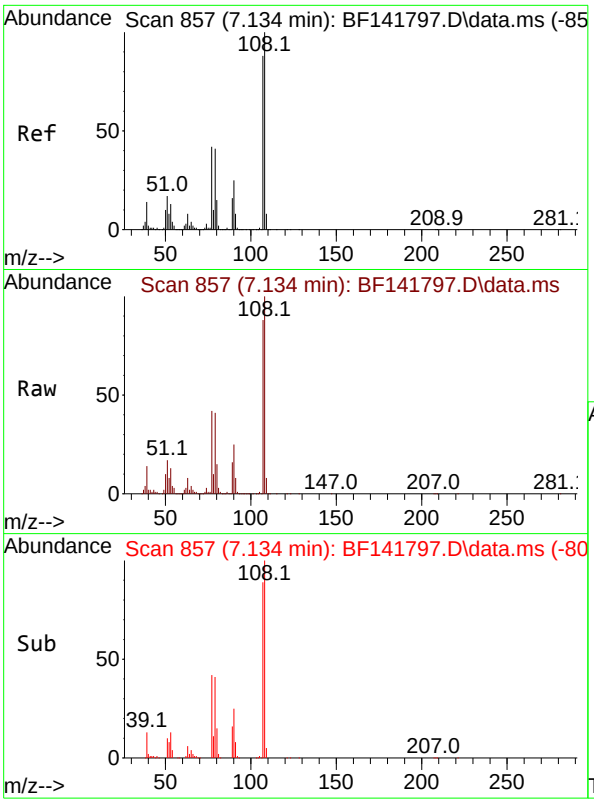


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.236 ng
RT: 7.163 min Scan# 862
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 45 Resp: 1197610

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.4
79	10.9	0.0	30.9

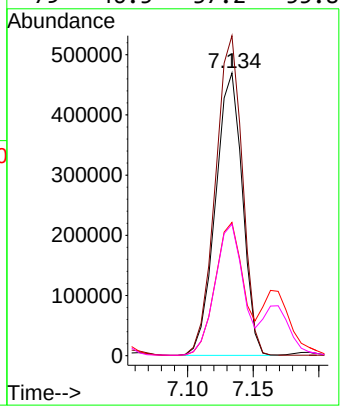




#17
2-Methylphenol
Concen: 41.635 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 67059

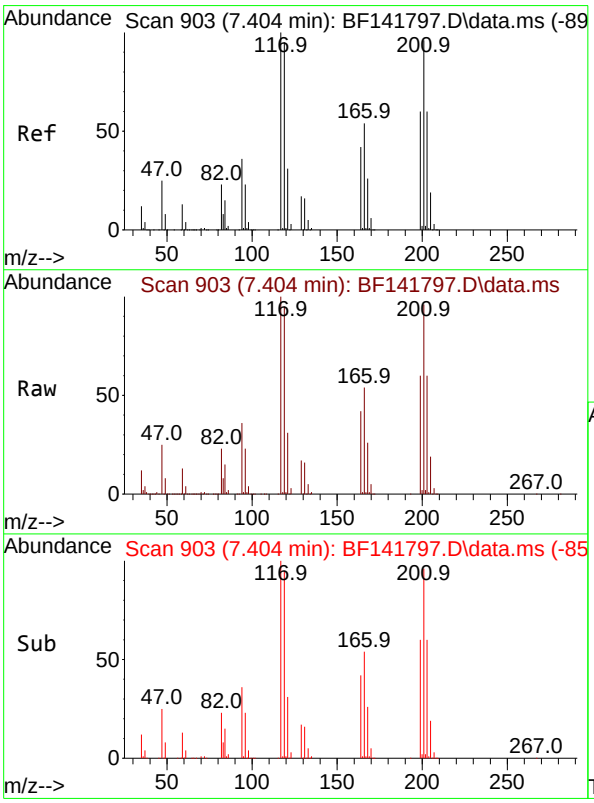
Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.6	135.8
77	47.1	37.7	56.5
79	46.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

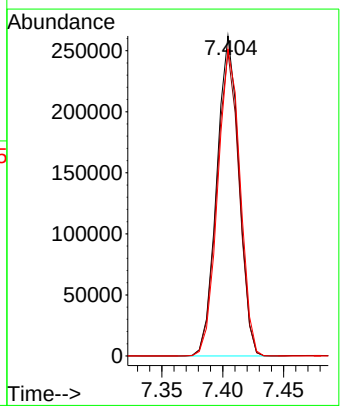
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

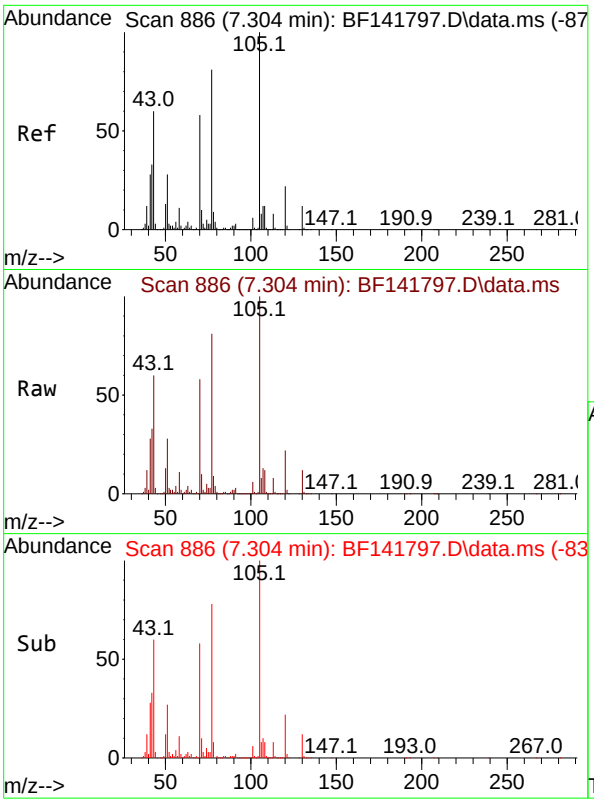


#18
Hexachloroethane
Concen: 42.223 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:117 Resp: 332747

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.8	113.8
201	95.9	76.7	115.1

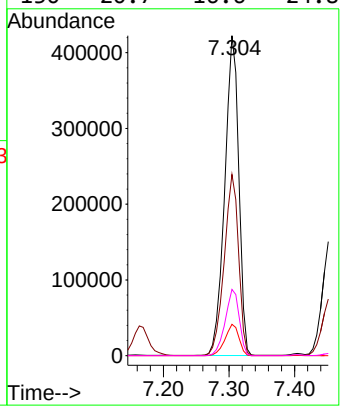




#19
n-Nitroso-di-n-propylamine
Concen: 40.586 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 70 Resp: 62639

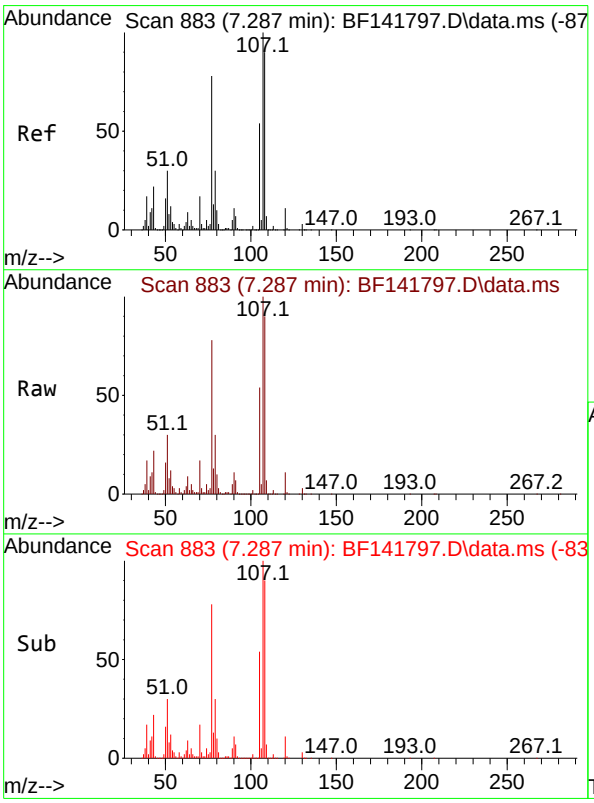
Ion	Ratio	Lower	Upper
70	100		
42	56.7	45.4	68.0
101	9.8	7.8	11.8
130	20.7	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

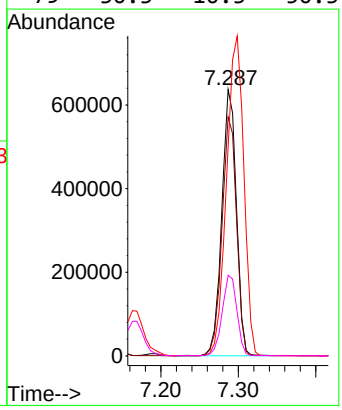
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

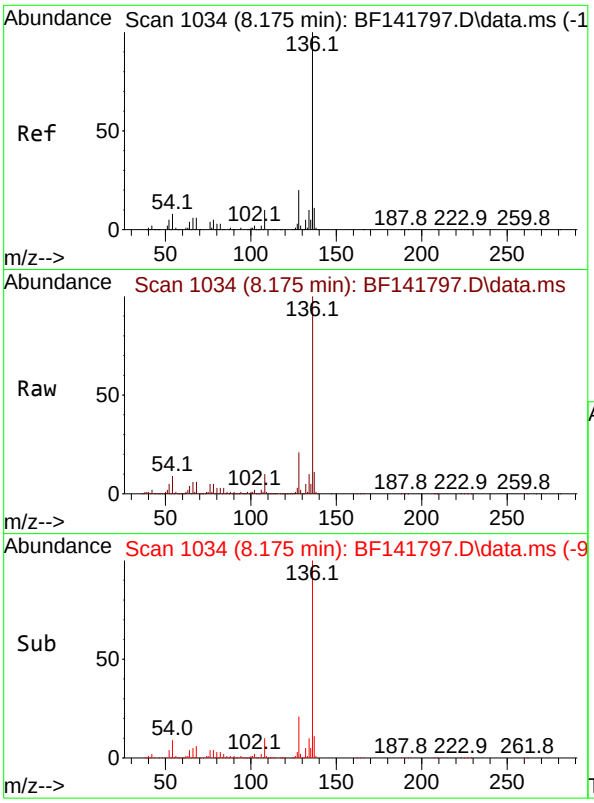


#20
3+4-Methylphenols
Concen: 41.411 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 830533

Ion	Ratio	Lower	Upper
107	100		
108	89.7	69.7	109.7
77	78.3	58.3	98.3
79	30.3	10.3	50.3





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

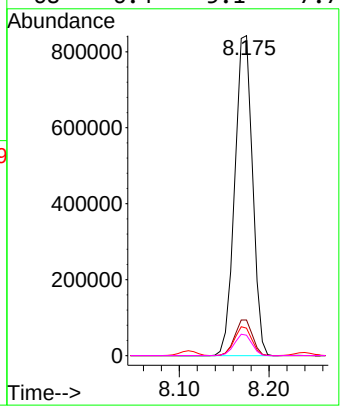
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

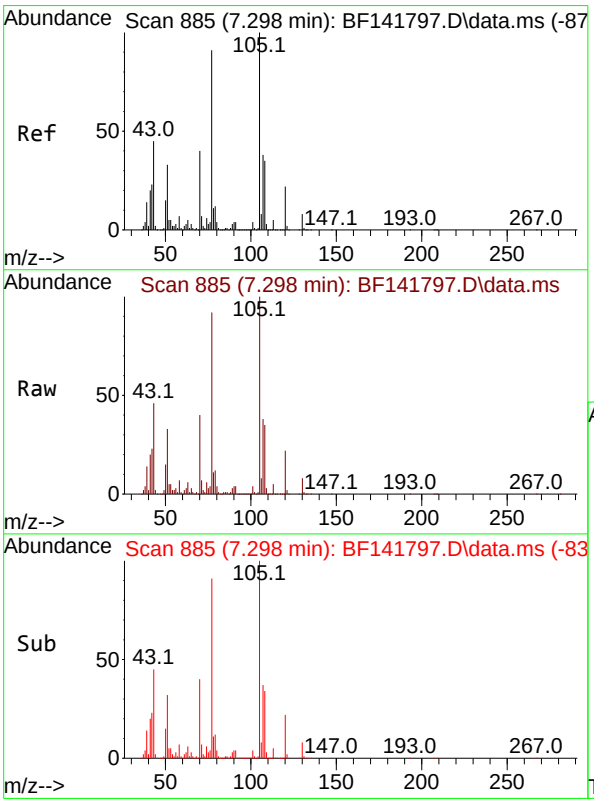
Tgt Ion:136 Resp: 115571

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.6	6.9	10.3
68	6.4	5.1	7.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

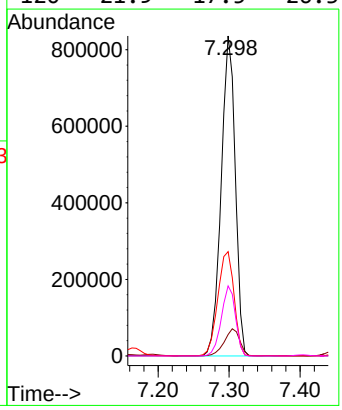


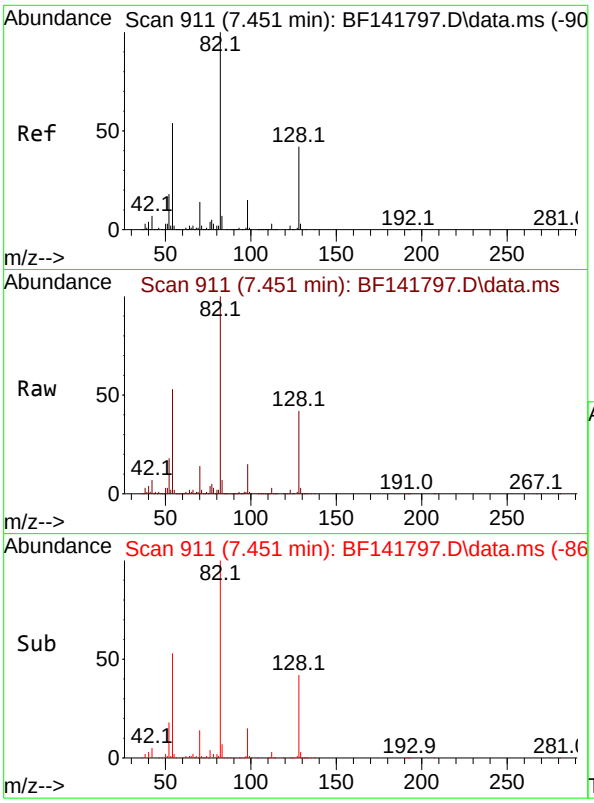


#22
Acetophenone
Concen: 40.776 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:105 Resp: 1147737

Ion	Ratio	Lower	Upper
105	100		
71	6.7	5.4	8.0
51	32.6	26.1	39.1
120	21.9	17.5	26.3

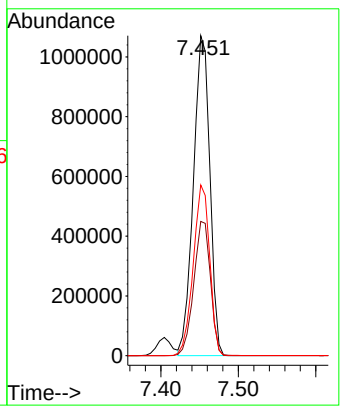




#23
Nitrobenzene-d5
Concen: 87.263 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157776

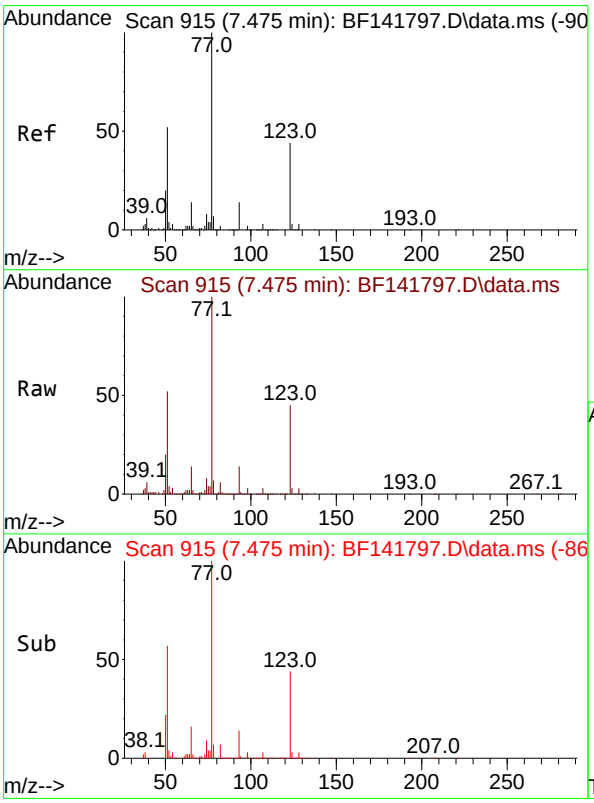
Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.5	50.3
54	53.4	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

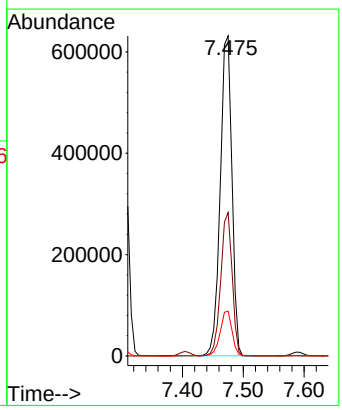
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

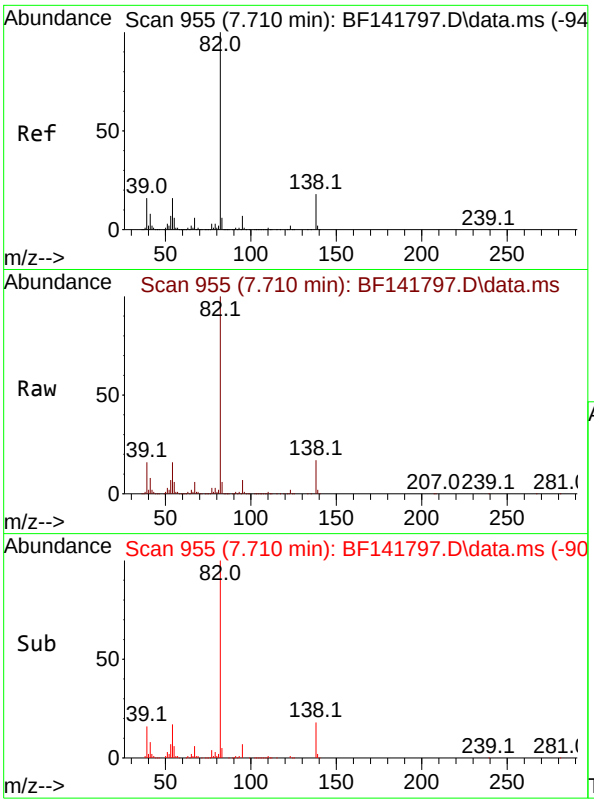


#24
Nitrobenzene
Concen: 43.379 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 839887

Ion	Ratio	Lower	Upper
77	100		
123	44.8	35.8	53.8
65	14.0	11.2	16.8

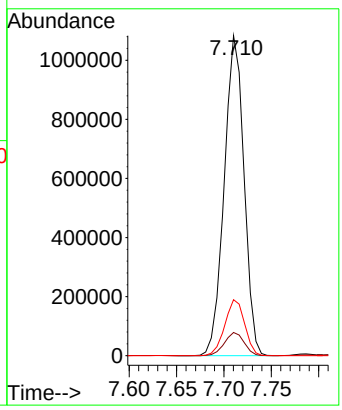




#25
Isophorone
Concen: 40.569 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157585

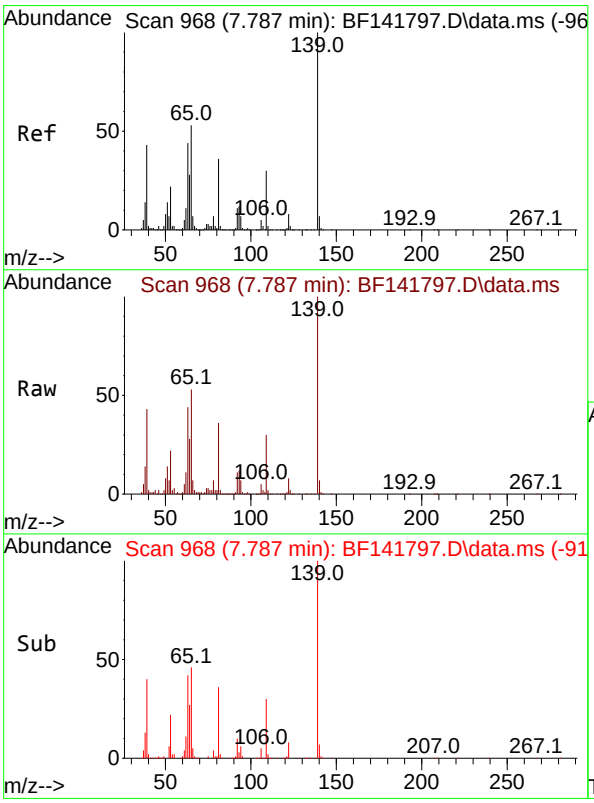
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.5	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

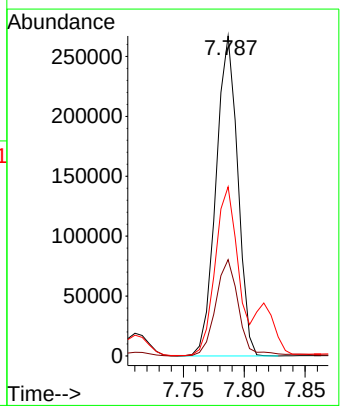
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

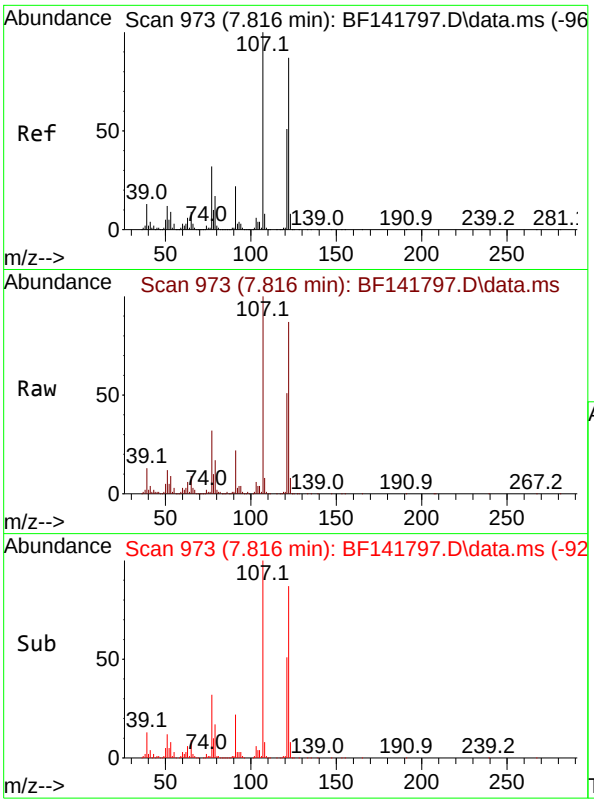


#26
2-Nitrophenol
Concen: 39.357 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:139 Resp: 332584

Ion	Ratio	Lower	Upper
139	100		
109	30.1	24.1	36.1
65	52.9	42.3	63.5

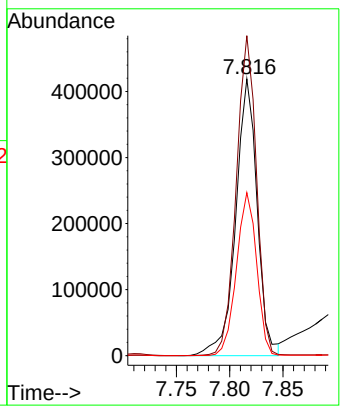




#27
2,4-Dimethylphenol
Concen: 41.191 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 58815

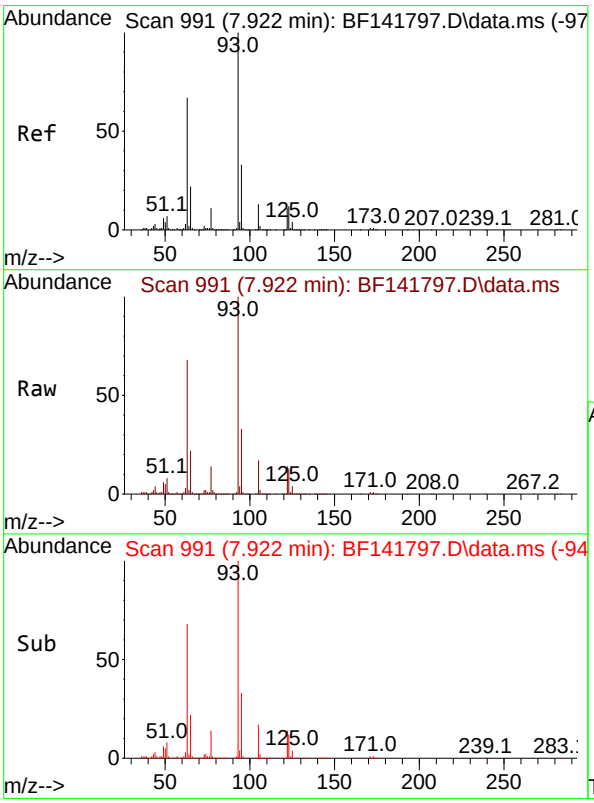
Ion	Ratio	Lower	Upper
122	100		
107	115.6	92.5	138.7
121	58.9	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

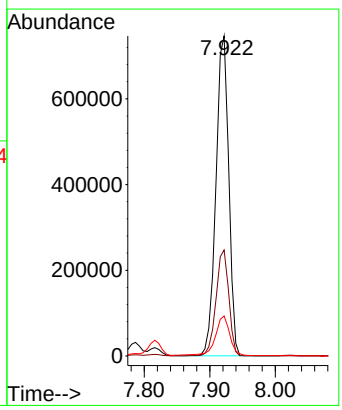
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

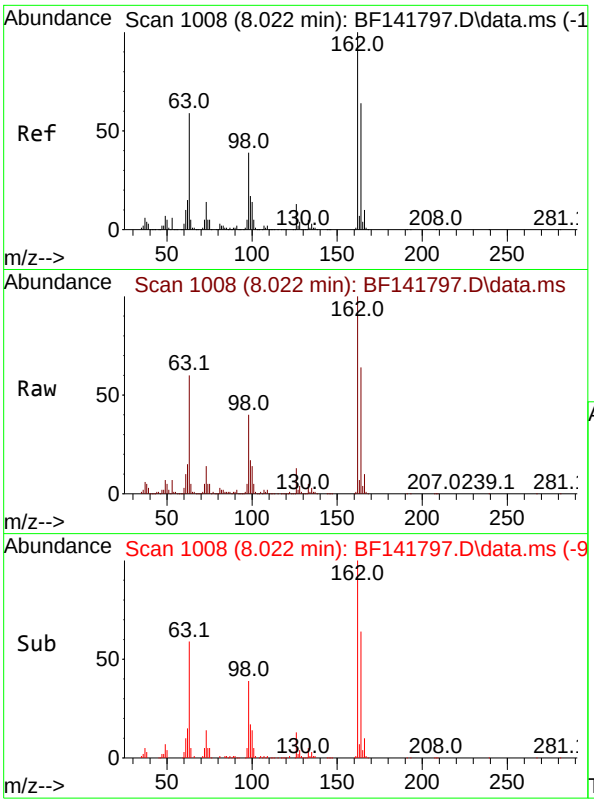


#28
bis(2-Chloroethoxy)methane
Concen: 40.624 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 1006606

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.5	39.7
123	12.5	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 41.819 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

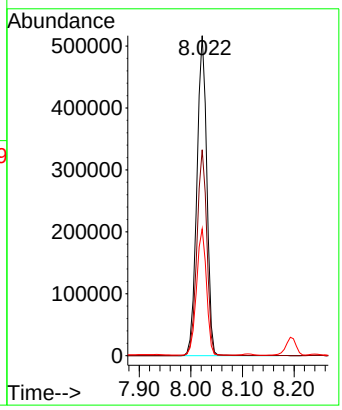
Tgt Ion:162 Resp: 68886

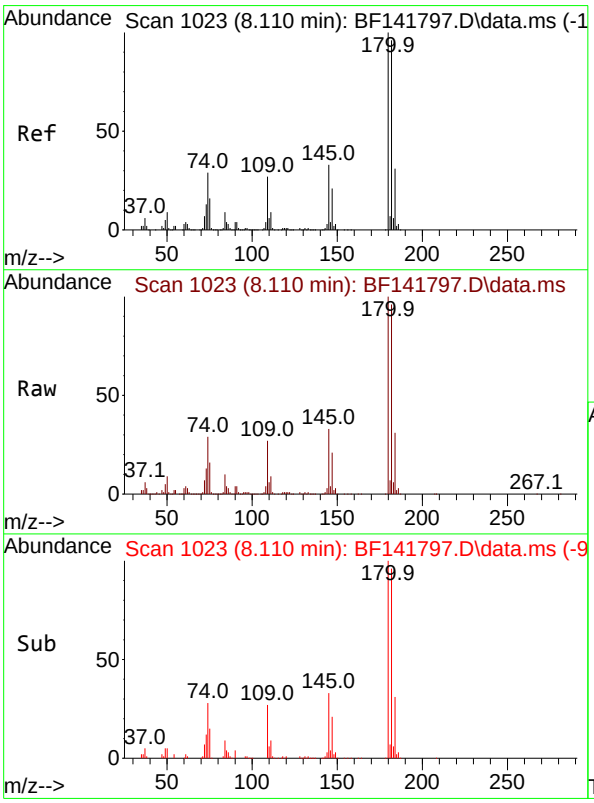
Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.3	84.3
98	39.6	19.6	59.6

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

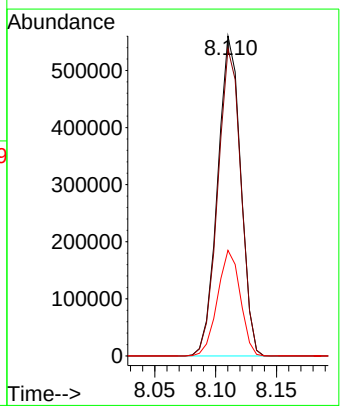


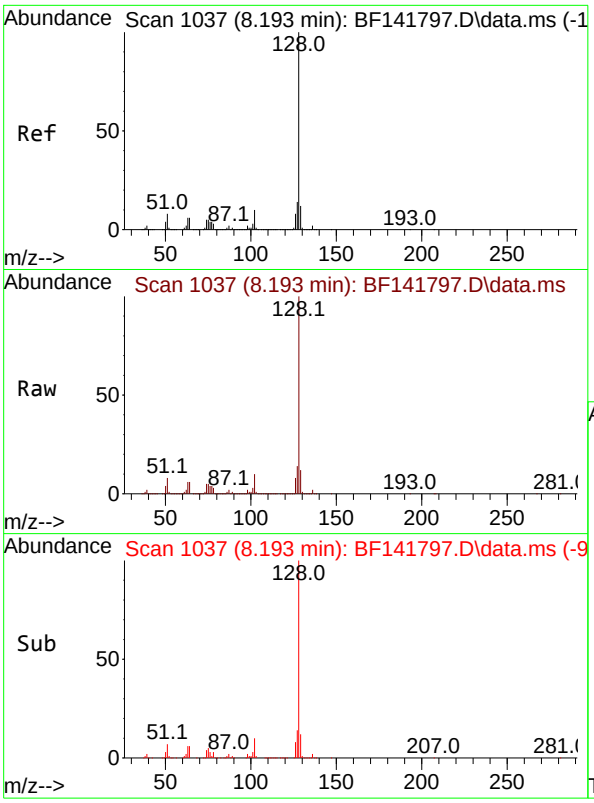


#30
1,2,4-Trichlorobenzene
Concen: 40.863 ng
RT: 8.110 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:180 Resp: 737573

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	33.0	26.4	39.6

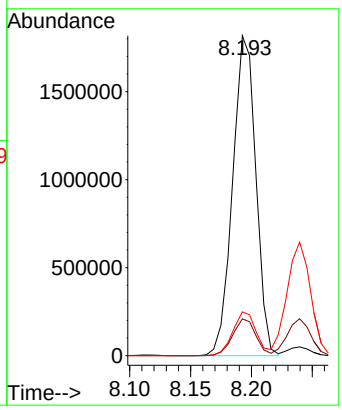




#31
Naphthalene
Concen: 40.588 ng
RT: 8.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 241091

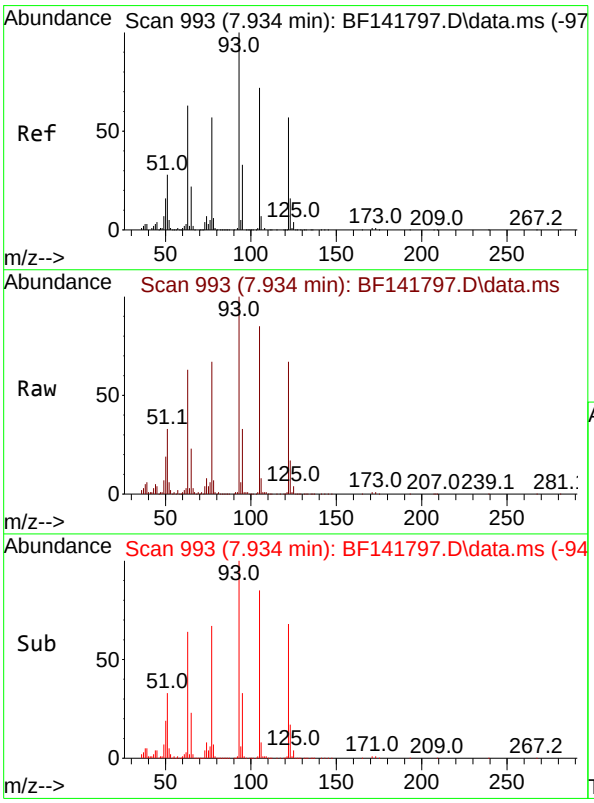
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

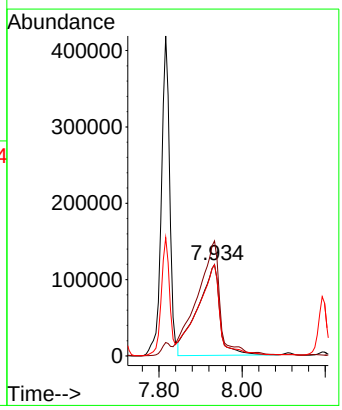
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

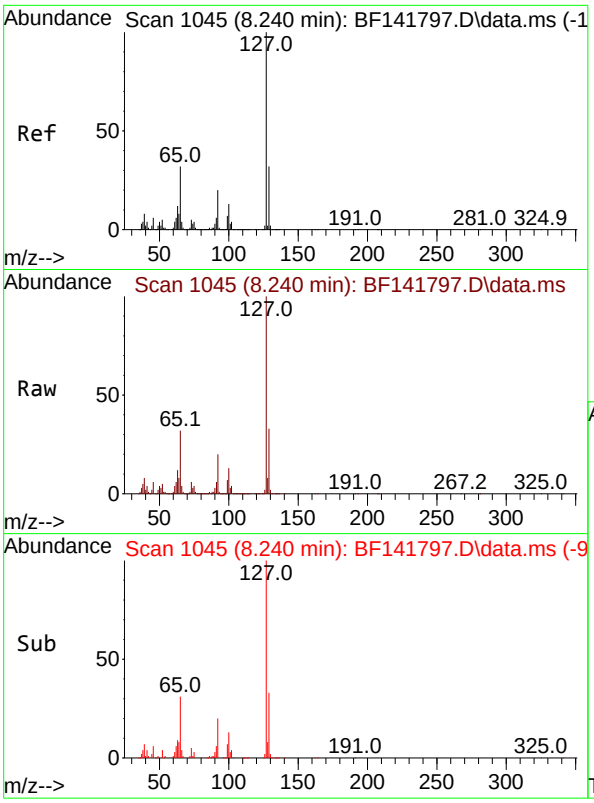


#32
Benzoic acid
Concen: 38.870 ng
RT: 7.934 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 442477

Ion	Ratio	Lower	Upper
122	100		
105	125.8	105.8	145.8
77	99.9	79.9	119.9

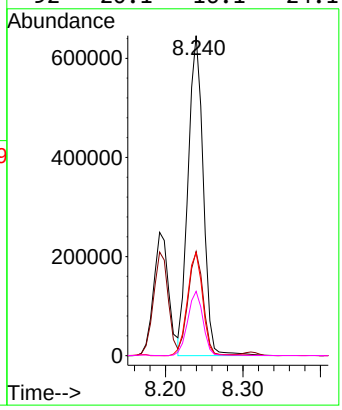




#33
4-Chloroaniline
Concen: 40.271 ng
RT: 8.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:127 Resp: 87708

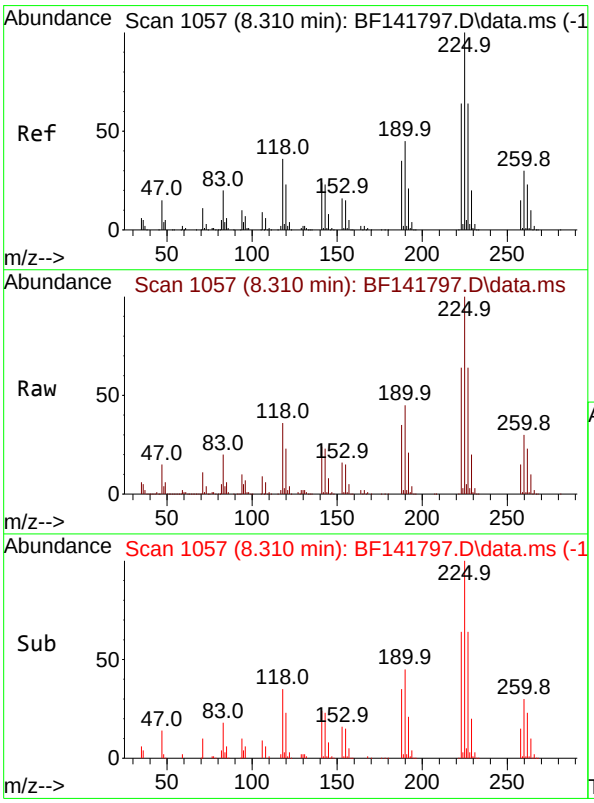
Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	32.1	25.7	38.5
92	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

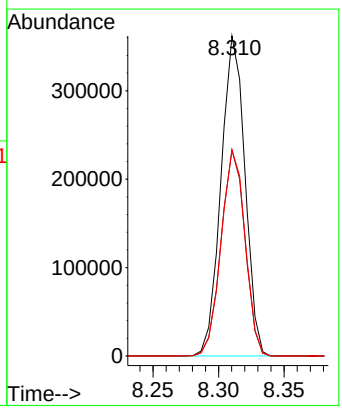
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

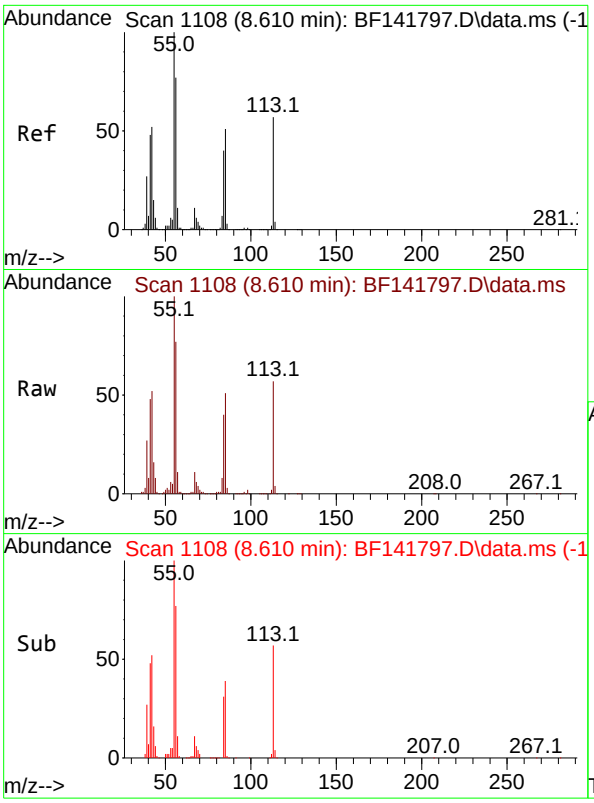


#34
Hexachlorobutadiene
Concen: 40.952 ng
RT: 8.310 min Scan# 1057
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:225 Resp: 459338

Ion	Ratio	Lower	Upper
225	100		
223	64.3	51.4	77.2
227	64.5	51.6	77.4





#35
Caprolactam
Concen: 41.695 ng m
RT: 8.610 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

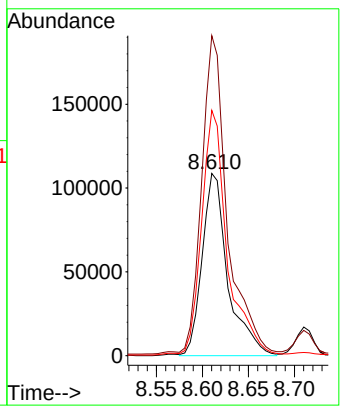
Tgt Ion:113 Resp: 21133

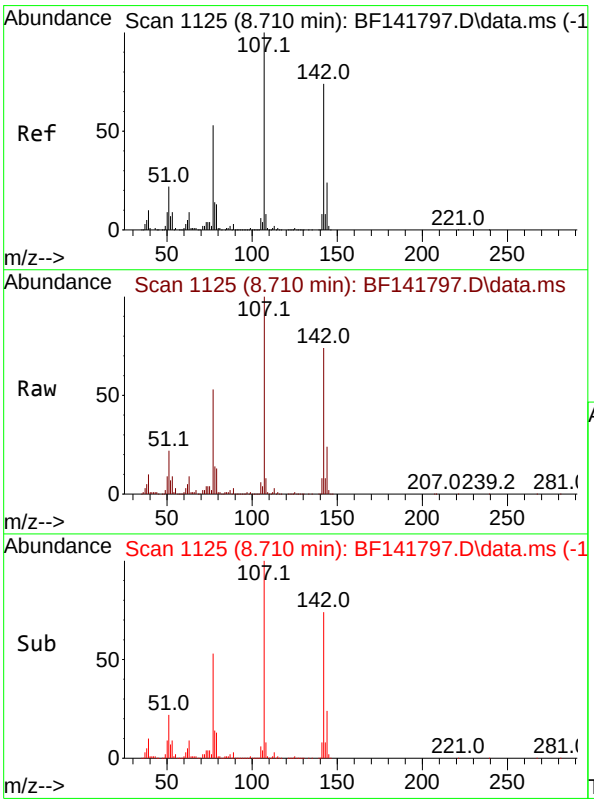
Ion	Ratio	Lower	Upper
113	100		
55	175.6	155.6	195.6
56	134.6	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

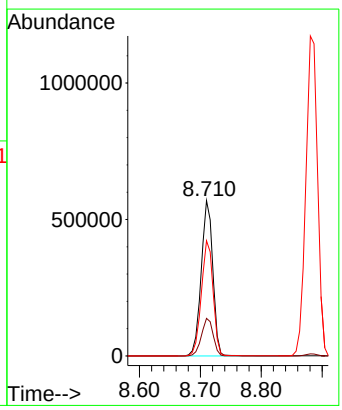


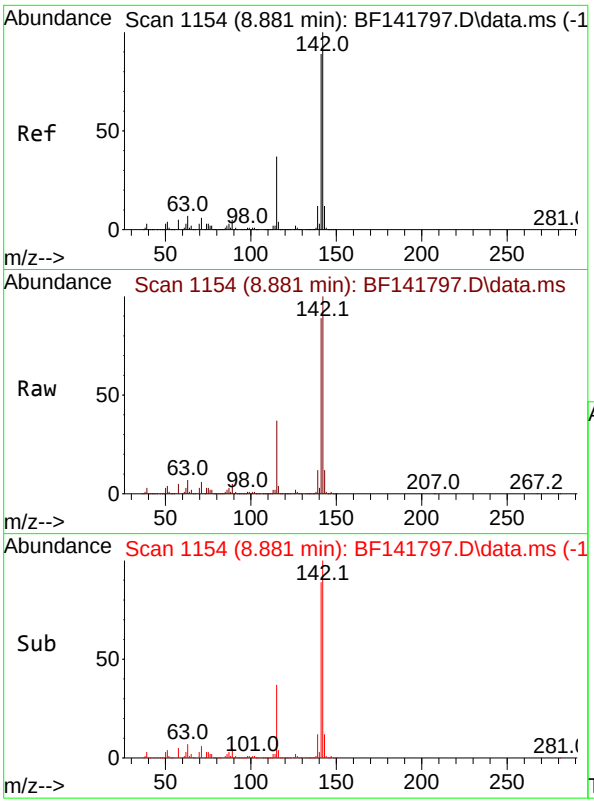


#36
4-Chloro-3-methylphenol
Concen: 41.148 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 752961

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.0
142	74.2	59.4	89.0

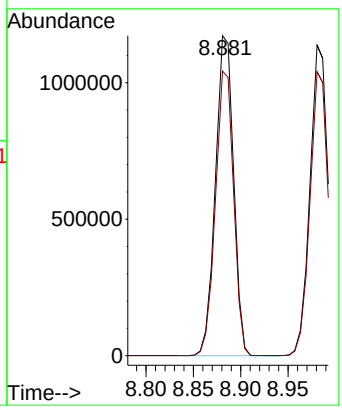




#37
2-Methylnaphthalene
Concen: 40.179 ng
RT: 8.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 156542

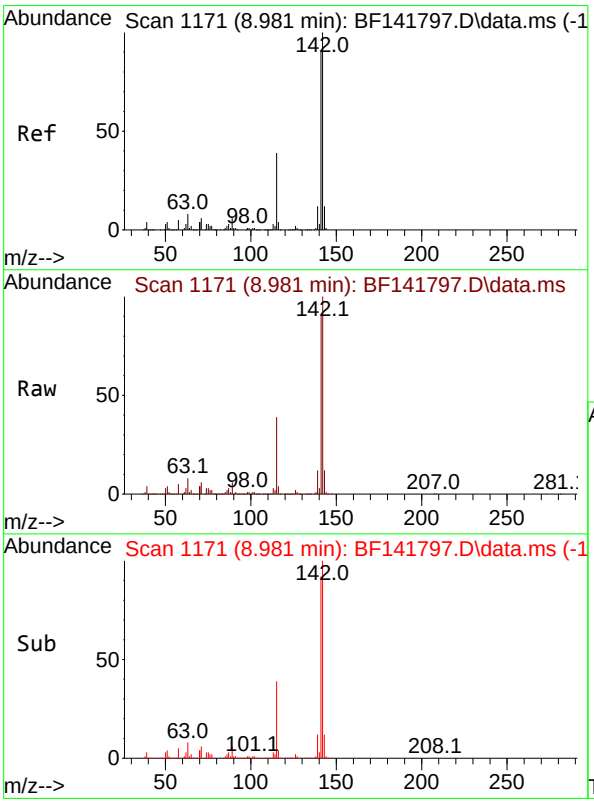
Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

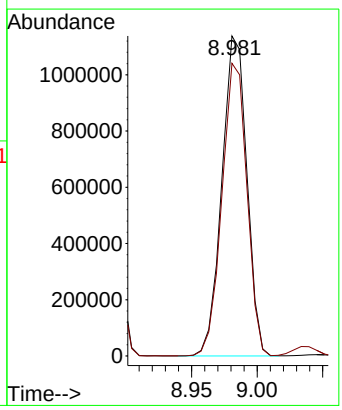
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

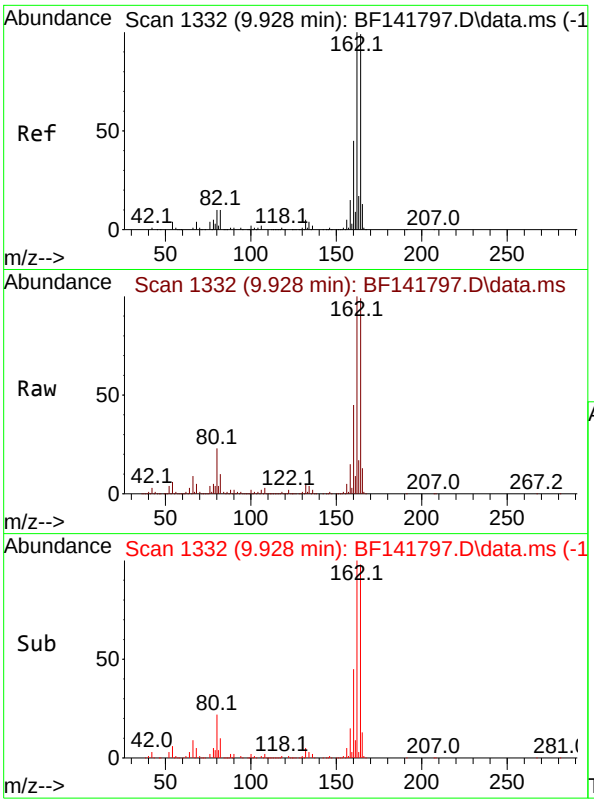


#38
1-Methylnaphthalene
Concen: 40.286 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 1506039

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7

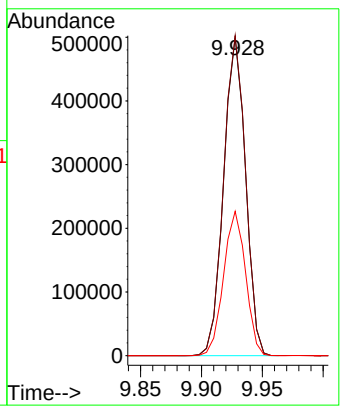




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:164 Resp: 62524

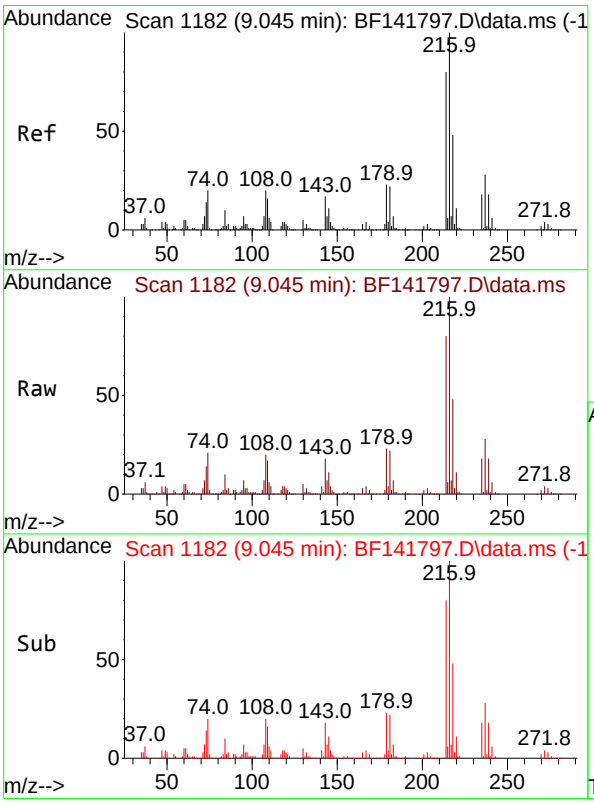
Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.6	120.8
160	45.4	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

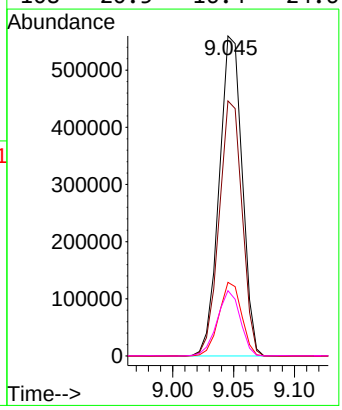
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

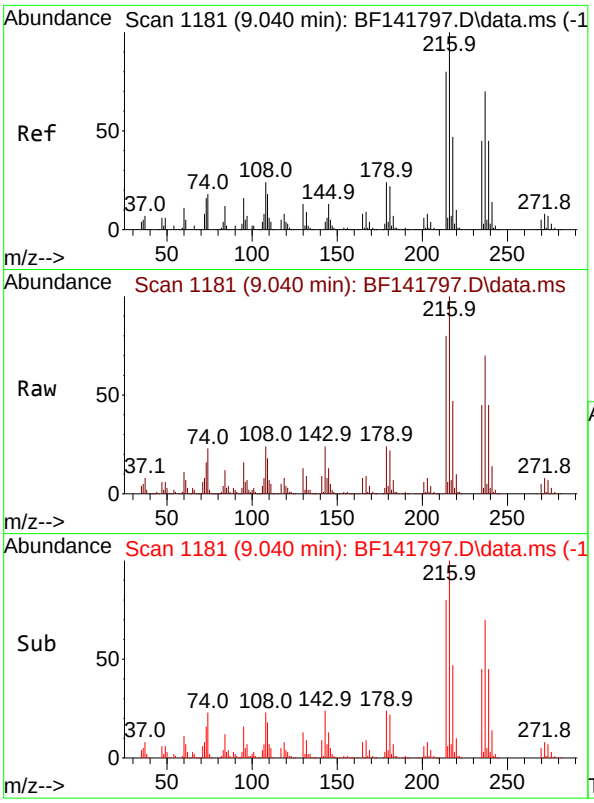


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.786 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:216 Resp: 736508

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.5	95.3
179	22.6	18.1	27.1
108	20.5	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 42.882 ng
RT: 9.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

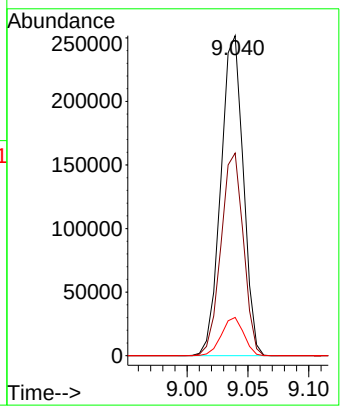
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

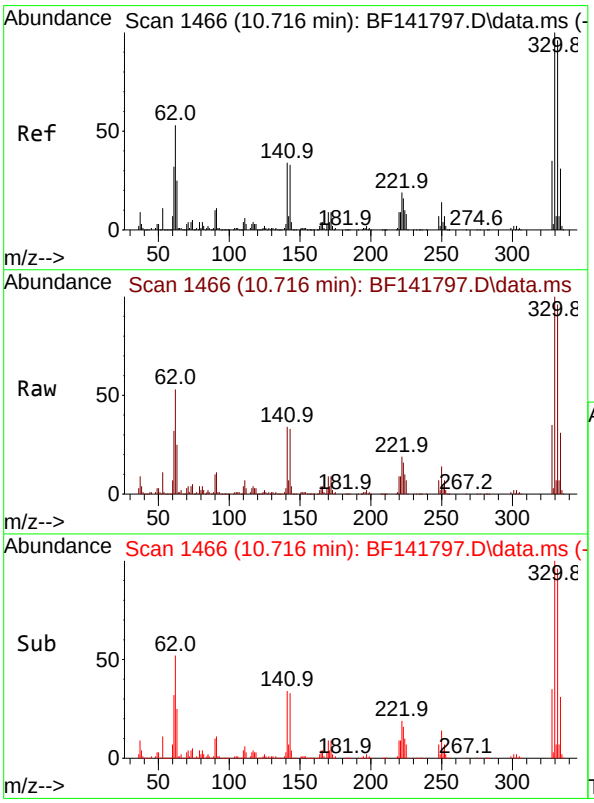
Tgt Ion:237 Resp: 32316

Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	11.9	0.0	31.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

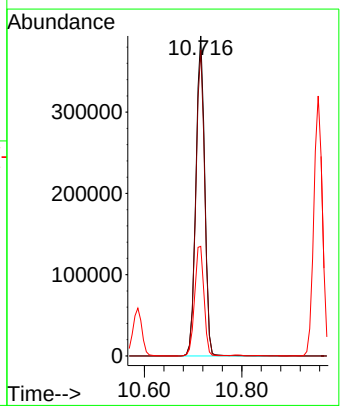


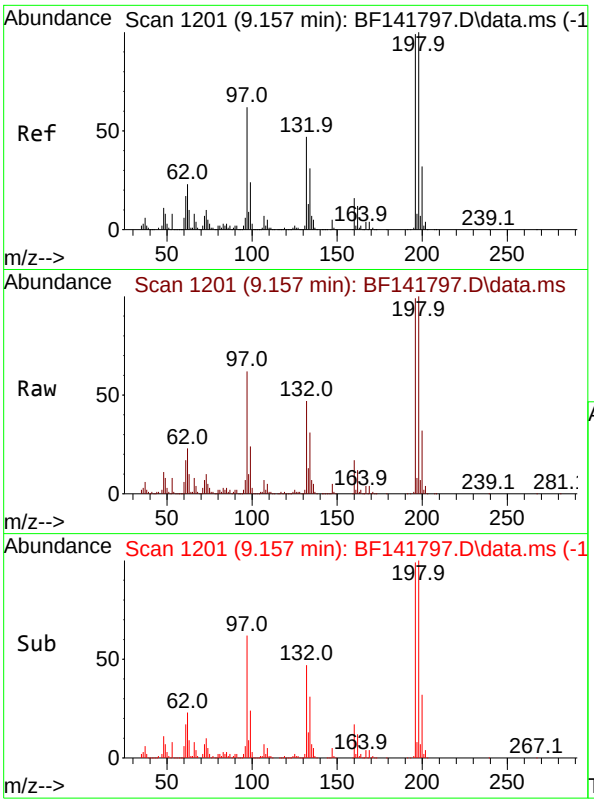


#42
2,4,6-Tribromophenol
Concen: 84.959 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:330 Resp: 498702

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.6	115.0
141	36.2	29.0	43.4

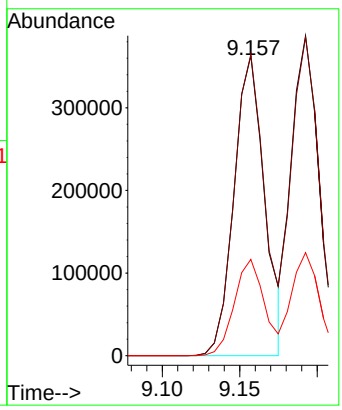




#43
2,4,6-Trichlorophenol
Concen: 42.623 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 49718

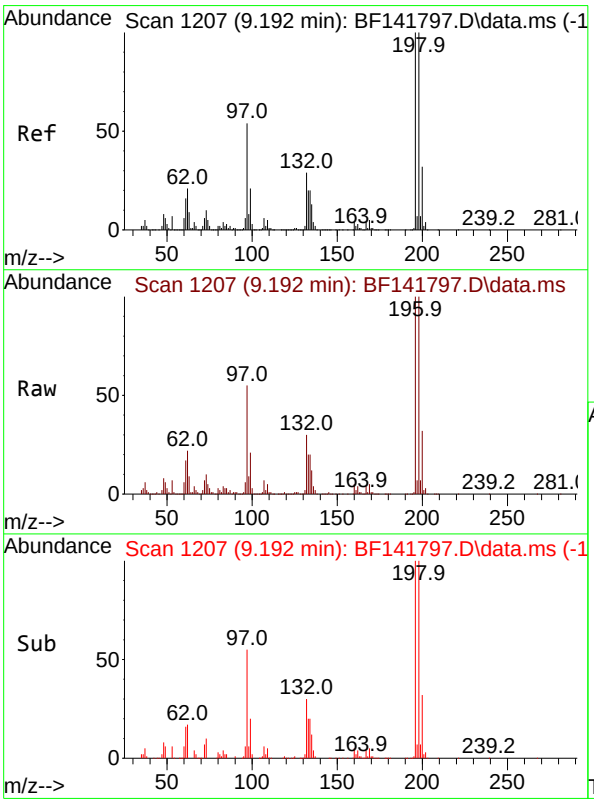
Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.4	120.6
200	32.1	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

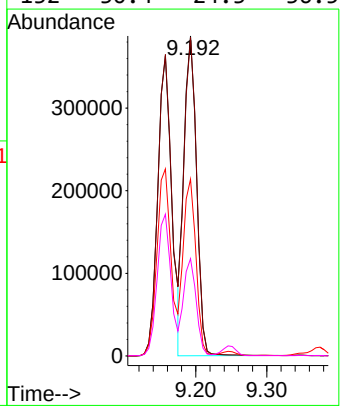
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

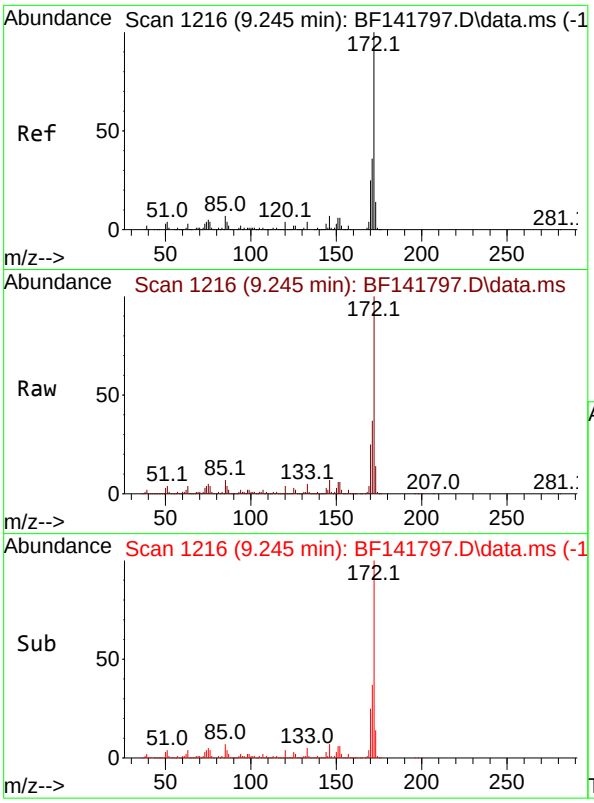


#44
2,4,5-Trichlorophenol
Concen: 41.448 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 478749

Ion	Ratio	Lower	Upper
196	100		
198	99.6	79.7	119.5
97	55.2	44.2	66.2
132	30.4	24.3	36.5

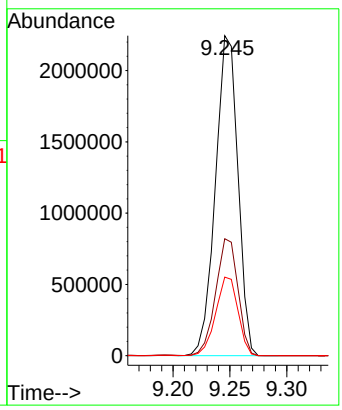




#45
2-Fluorobiphenyl
Concen: 79.348 ng
RT: 9.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:172 Resp: 309407

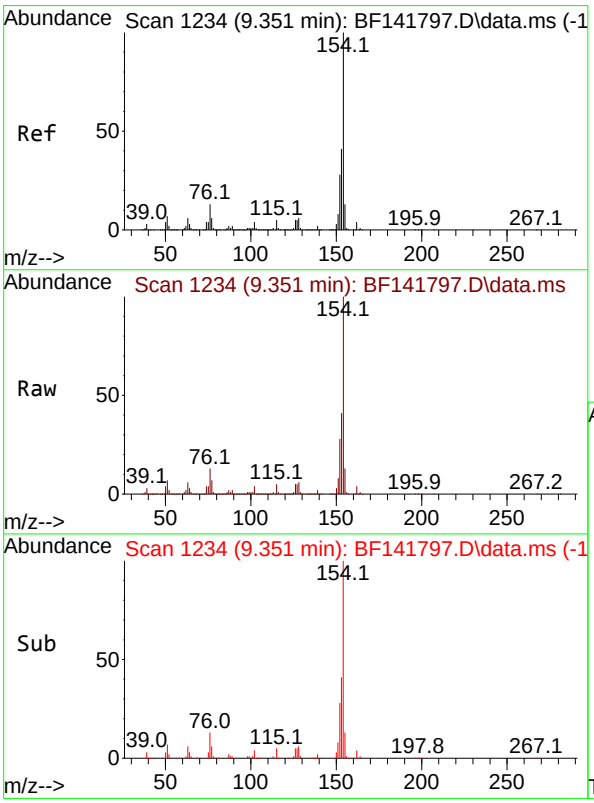
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.6	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

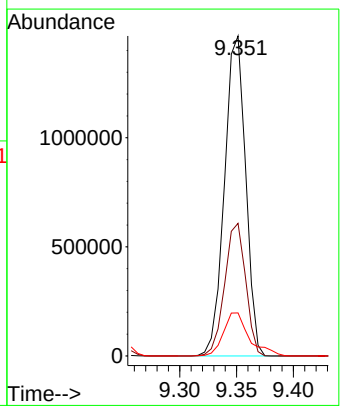
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

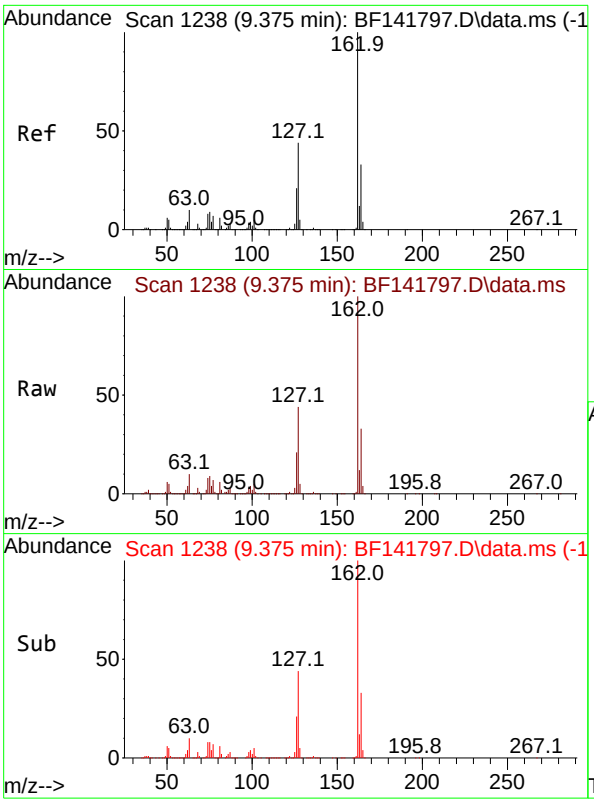


#46
1,1'-Biphenyl
Concen: 39.917 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:154 Resp: 1899694

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	13.4	0.0	33.4

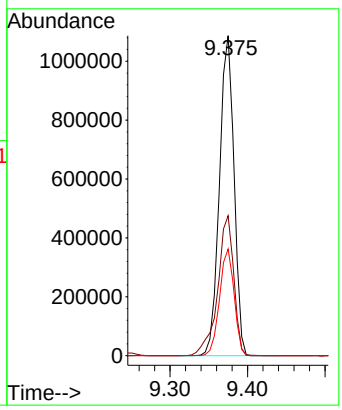




#47
2-Chloronaphthalene
Concen: 40.402 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:162 Resp: 141914

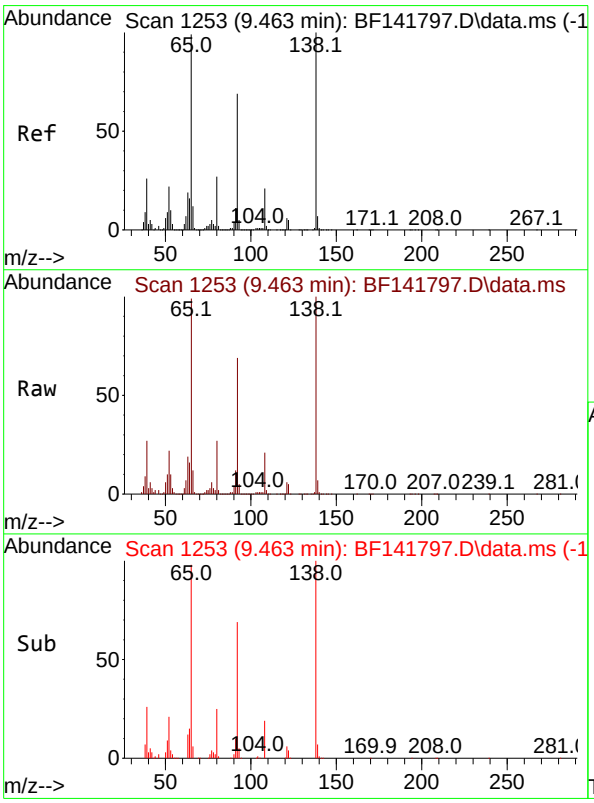
Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.0	52.6
164	33.3	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

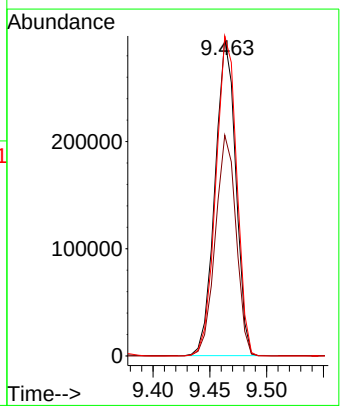
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

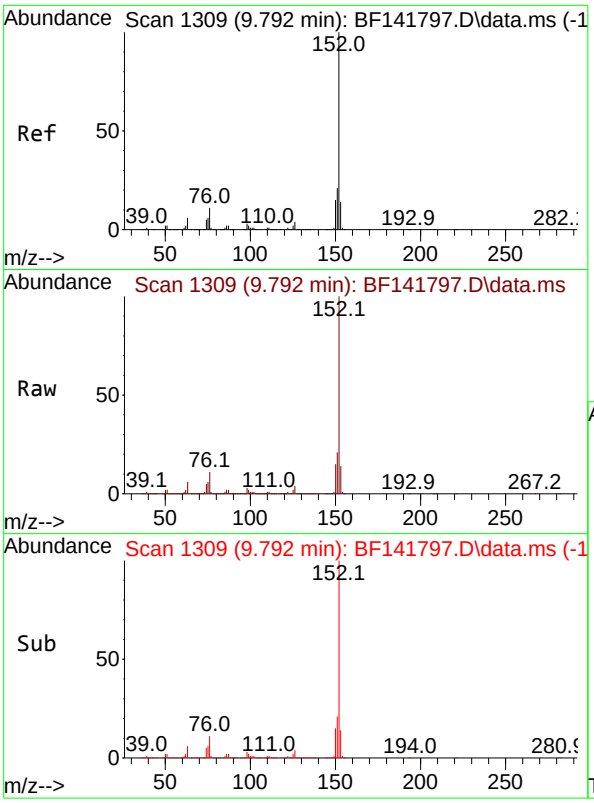


#48
2-Nitroaniline
Concen: 39.827 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 65 Resp: 375120

Ion	Ratio	Lower	Upper
65	100		
92	69.6	55.7	83.5
138	100.8	80.6	121.0





#49
Acenaphthylene
Concen: 40.629 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

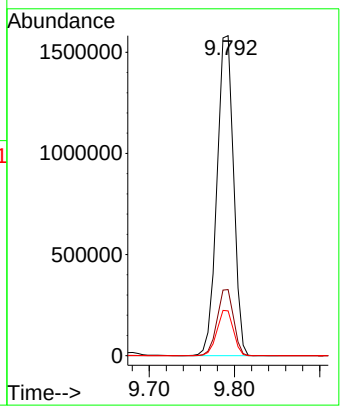
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

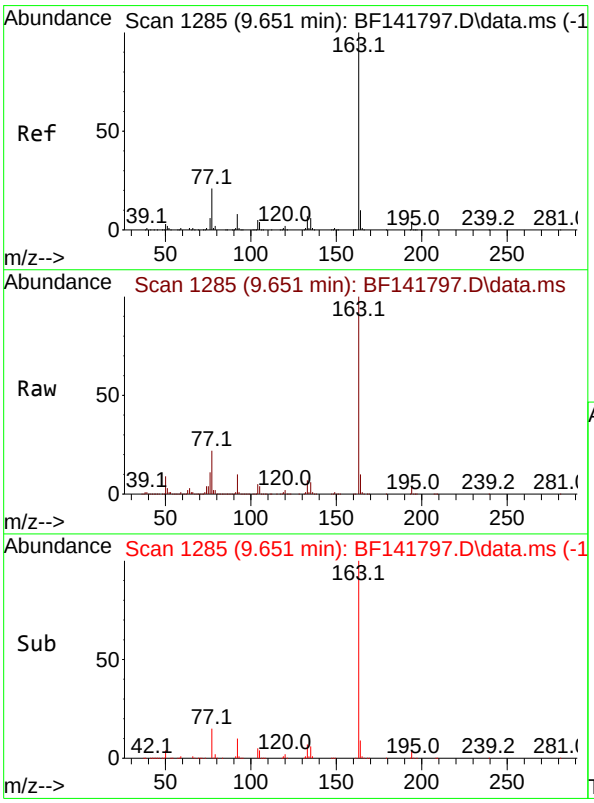
Tgt Ion:152 Resp: 213972

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	24.8
153	14.0	11.2	16.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

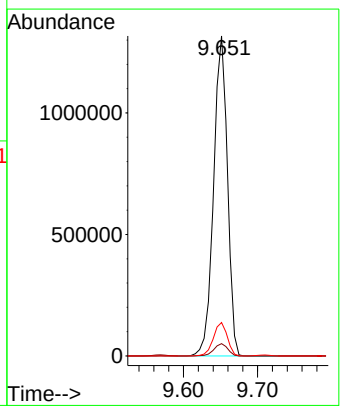


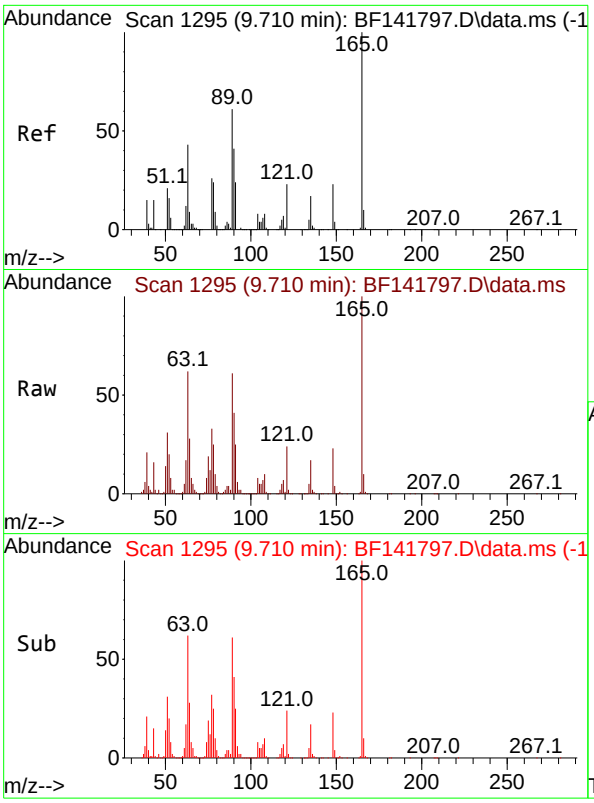


#50
Dimethylphthalate
Concen: 40.710 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:163 Resp: 1704601

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.5	8.4	12.6

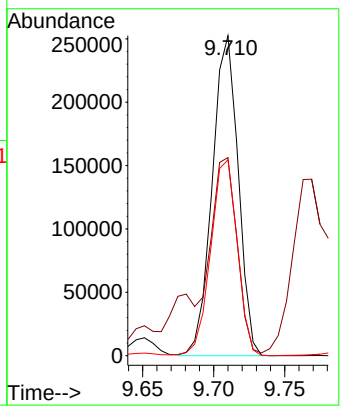




#51
2,6-Dinitrotoluene
Concen: 40.557 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 32112

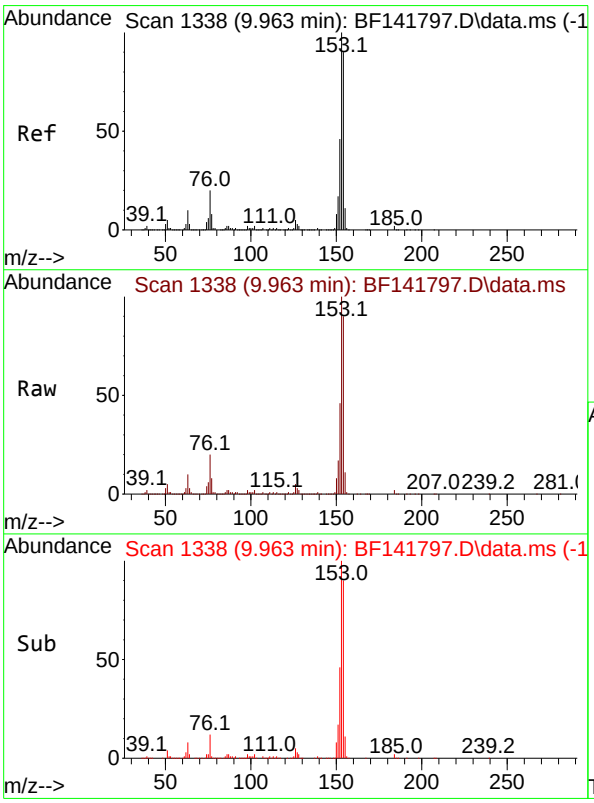
Ion	Ratio	Lower	Upper
165	100		
63	61.9	49.5	74.3
89	61.2	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

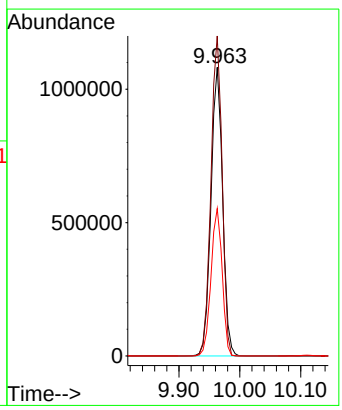
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

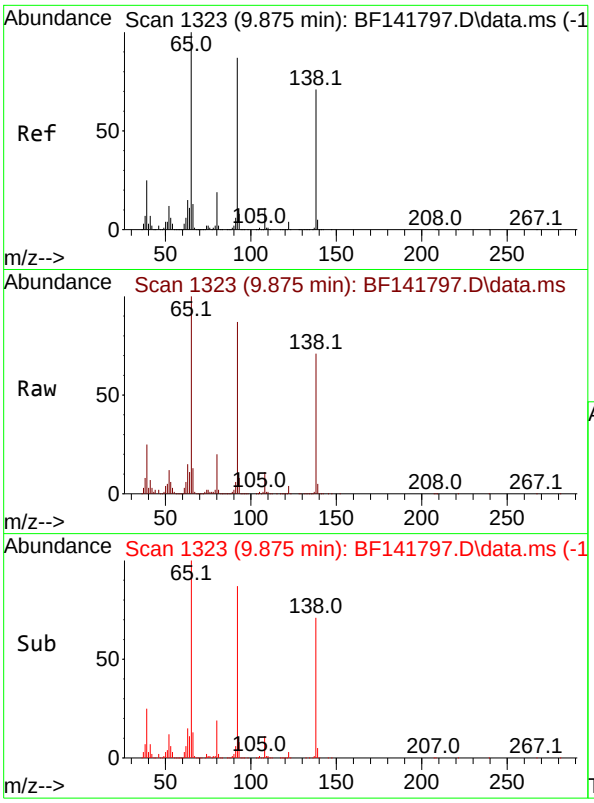


#52
Acenaphthene
Concen: 40.461 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:154 Resp: 1437821

Ion	Ratio	Lower	Upper
154	100		
153	110.9	88.7	133.1
152	51.1	40.9	61.3





#53
3-Nitroaniline
Concen: 41.045 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

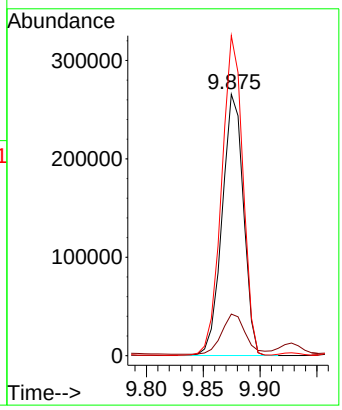
Tgt Ion:138 Resp: 34629

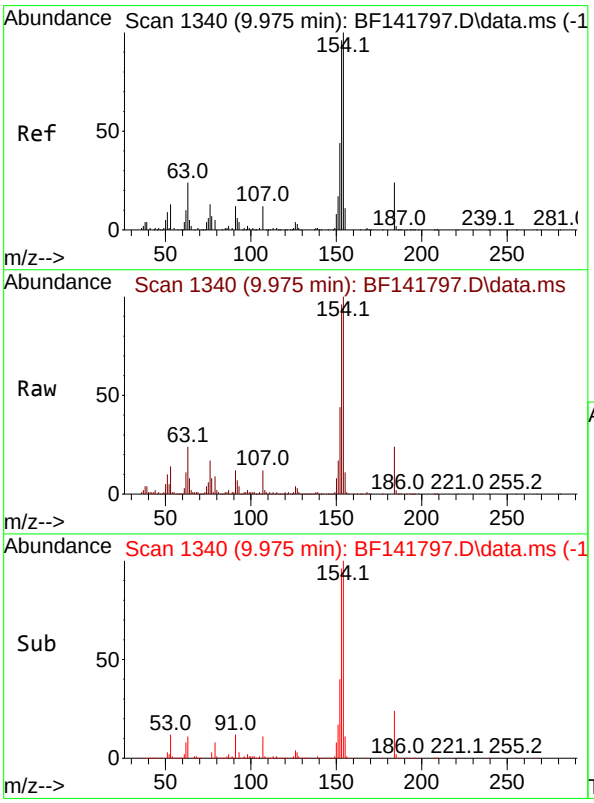
Ion	Ratio	Lower	Upper
138	100		
108	15.9	12.7	19.1
92	122.4	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

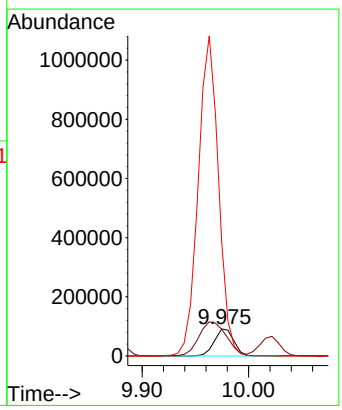


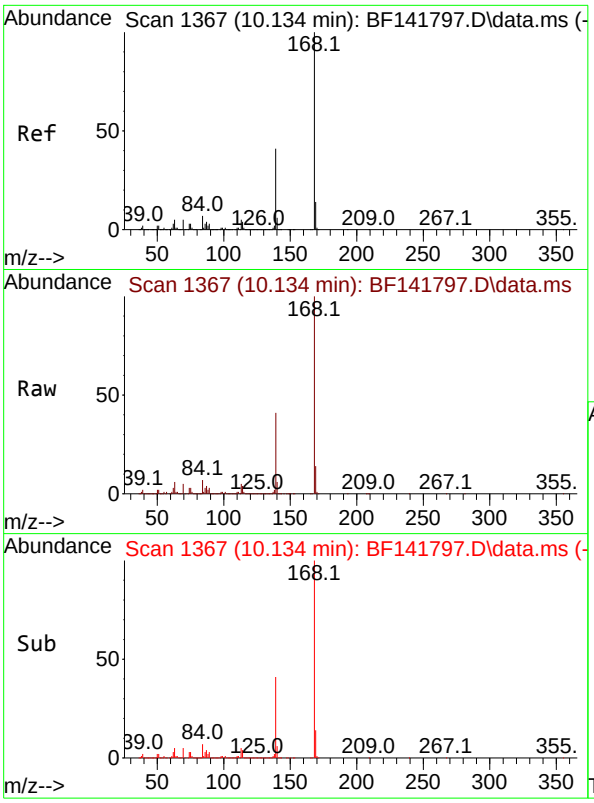


#54
2,4-Dinitrophenol
Concen: 39.874 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:184 Resp: 115933

Ion	Ratio	Lower	Upper
184	100		
63	98.8	79.0	118.6
154	419.8	335.8	503.8





#55
Dibenzofuran
Concen: 40.198 ng
RT: 10.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

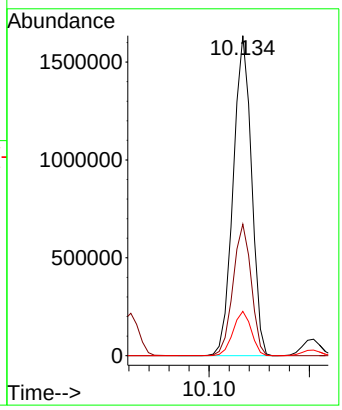
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

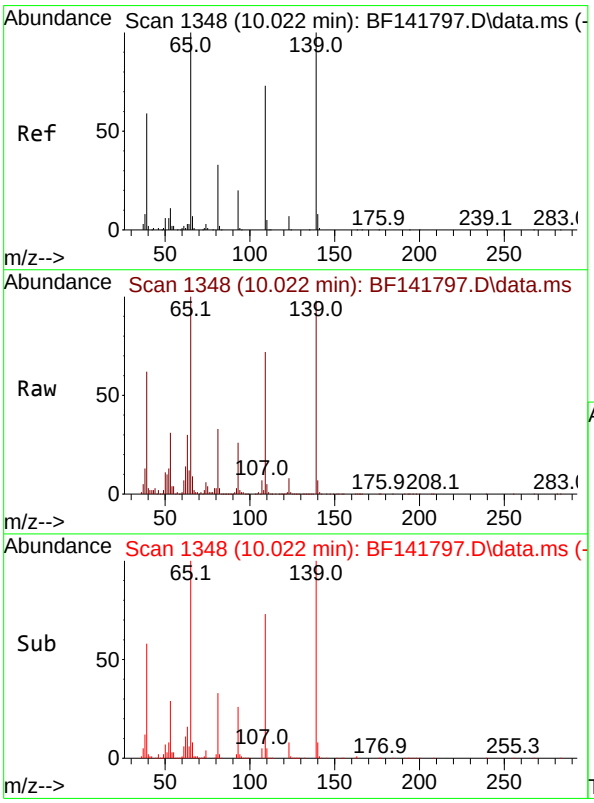
Tgt Ion:168 Resp: 207913

Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.9	49.3
169	13.9	11.1	16.7

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

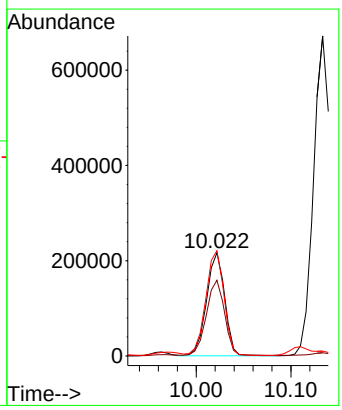


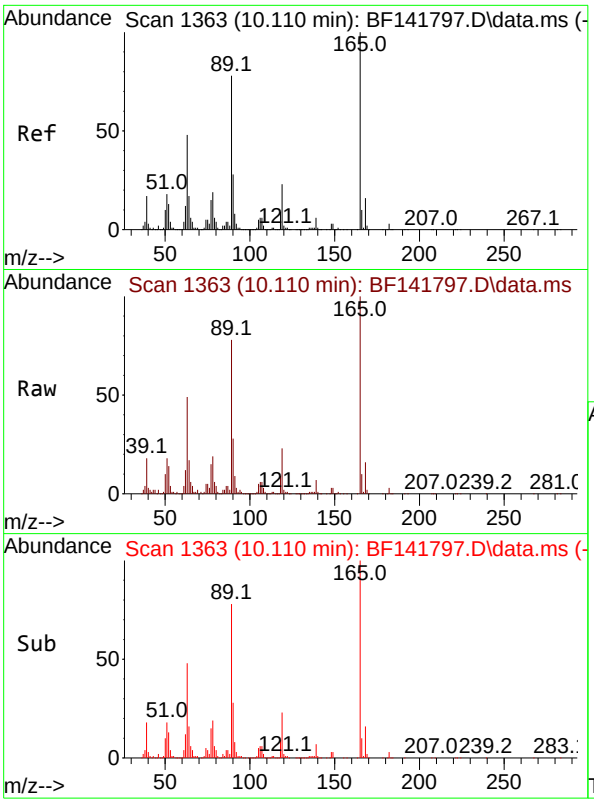


#56
4-Nitrophenol
Concen: 46.172 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:139 Resp: 285537

Ion	Ratio	Lower	Upper
139	100		
109	73.4	53.4	93.4
65	102.1	82.1	122.1

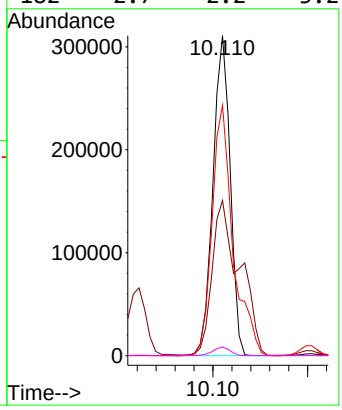




#57
2,4-Dinitrotoluene
Concen: 40.635 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 39185

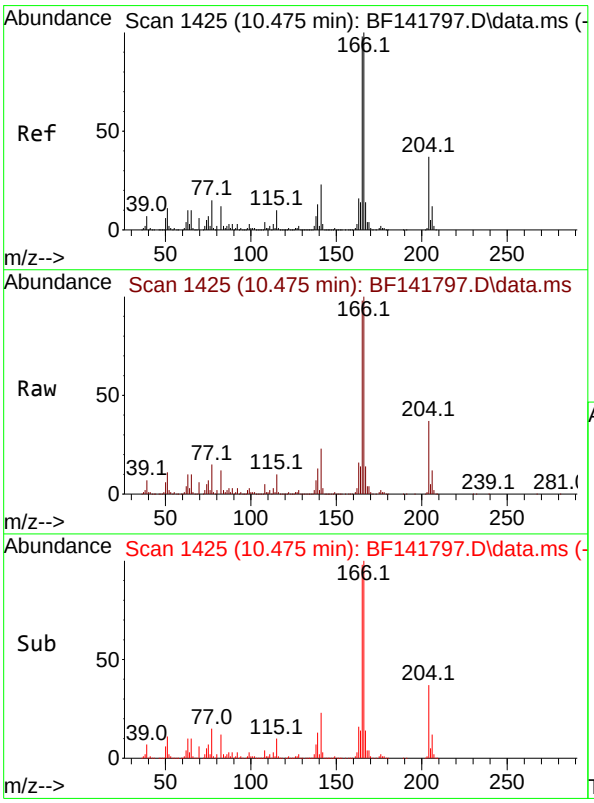
Ion	Ratio	Lower	Upper
165	100		
63	48.5	38.8	58.2
89	78.3	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

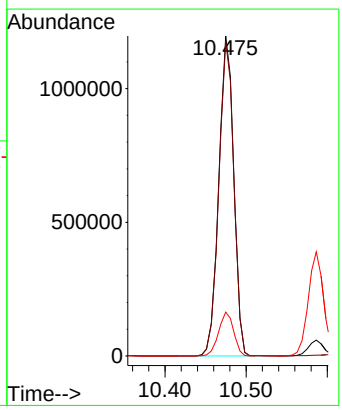
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

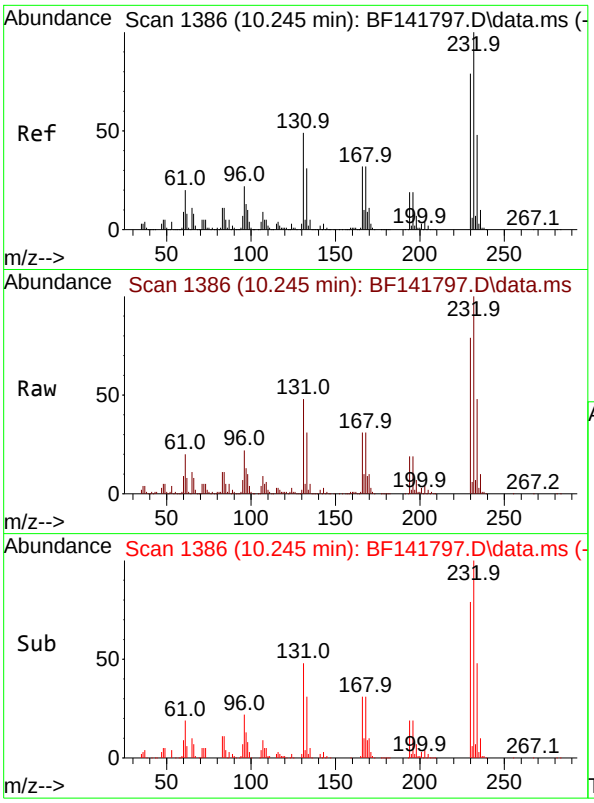


#58
Fluorene
Concen: 39.650 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:166 Resp: 1536139

Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.6	117.8
167	13.7	11.0	16.4

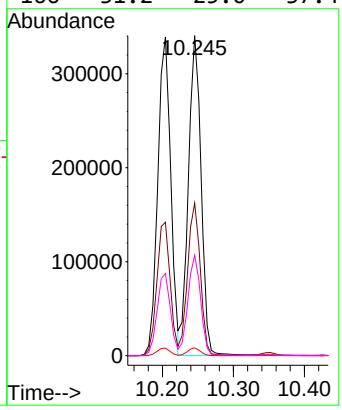




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.235 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:232 Resp: 42427

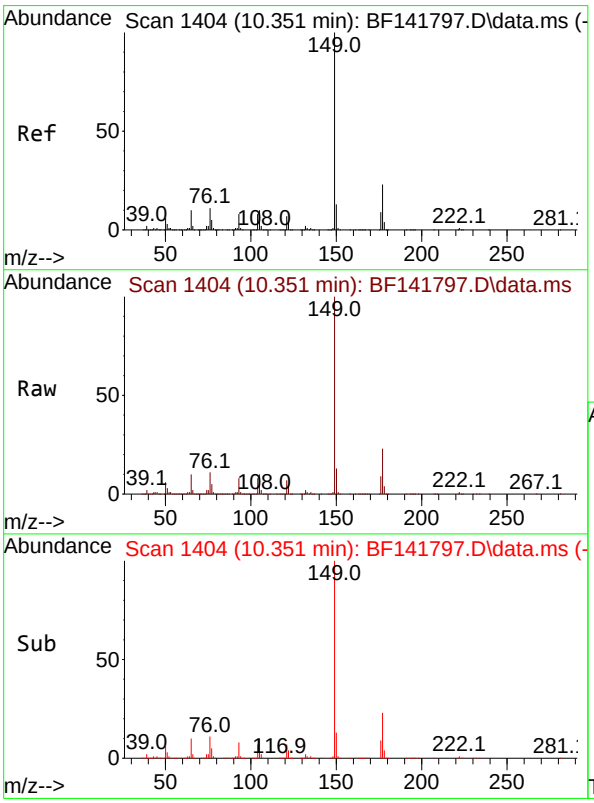
Ion	Ratio	Lower	Upper
232	100		
131	47.3	37.8	56.8
130	2.5	2.0	3.0
166	31.2	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

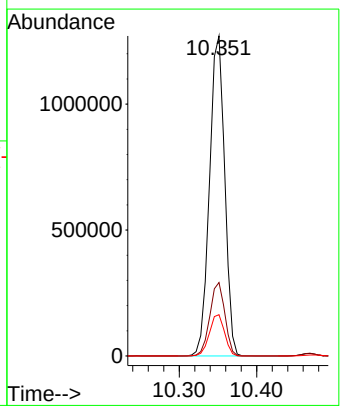
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

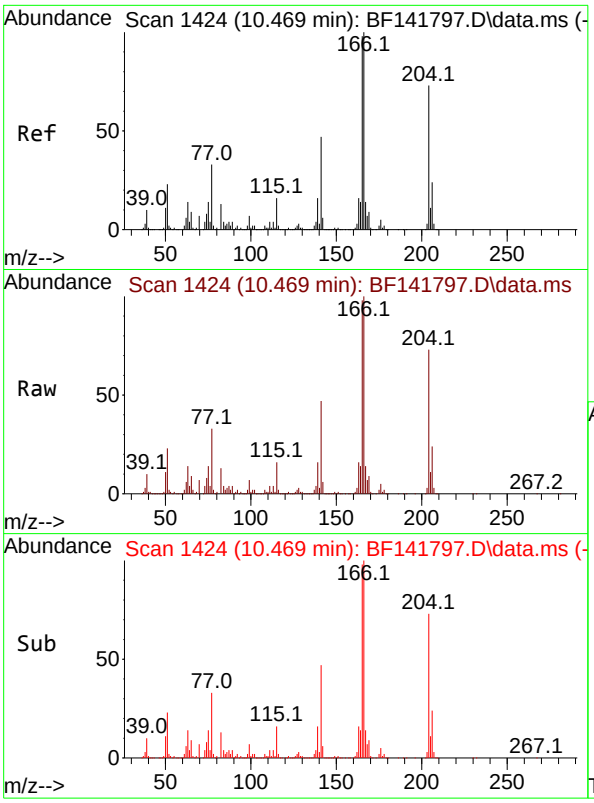


#60
Diethylphthalate
Concen: 41.203 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 1729522

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.9	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 39.939 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

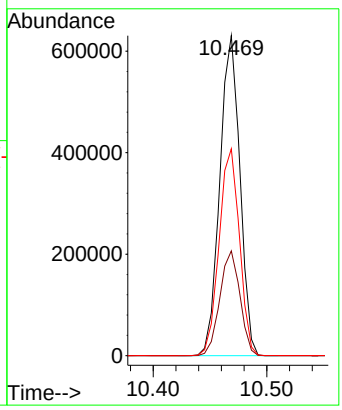
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

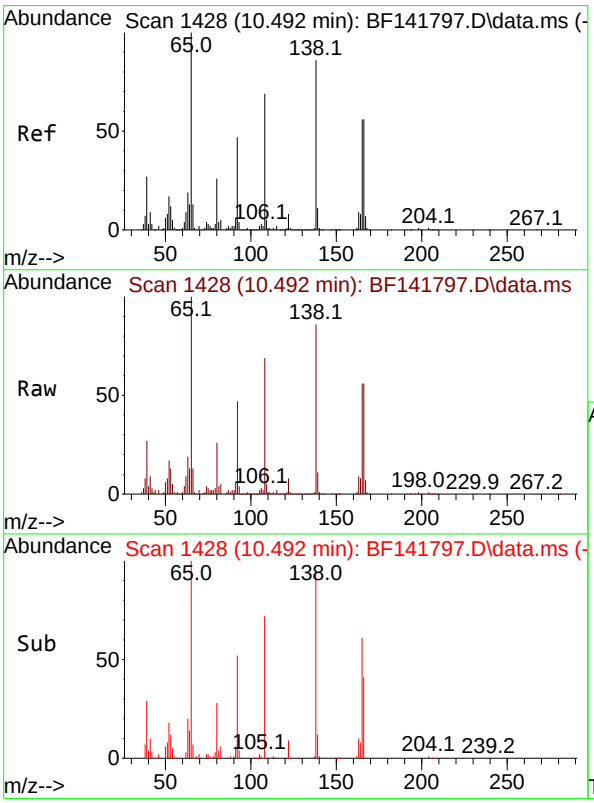
Tgt Ion:204 Resp: 77527

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.4
141	64.6	51.7	77.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

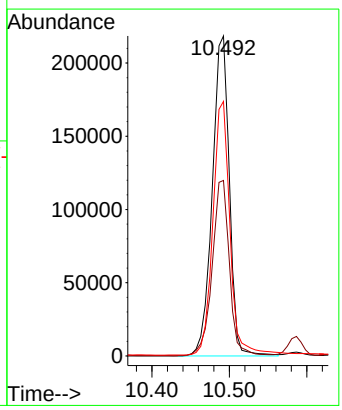


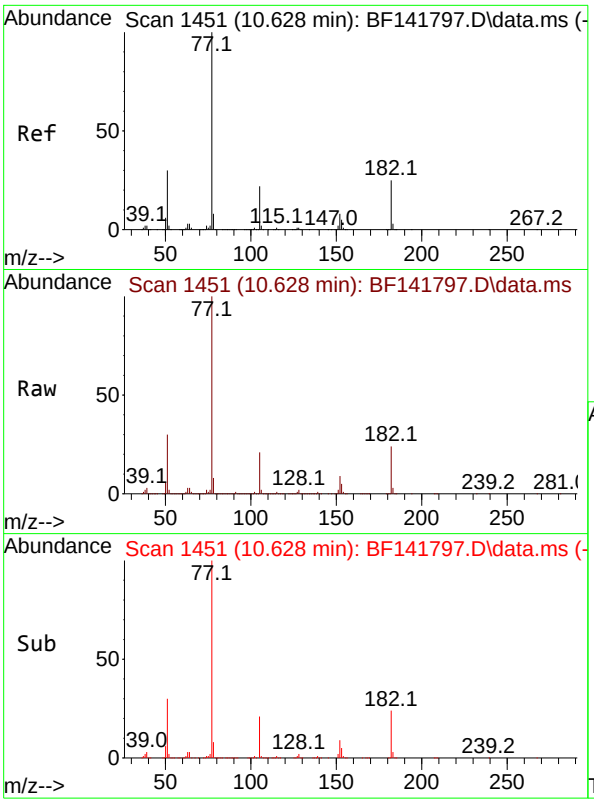


#62
4-Nitroaniline
Concen: 46.685 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:138 Resp: 333830

Ion	Ratio	Lower	Upper
138	100		
92	54.9	34.9	74.9
108	79.6	59.6	99.6

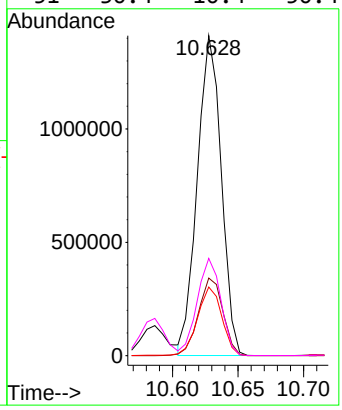




#63
Azobenzene
Concen: 40.657 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 179690

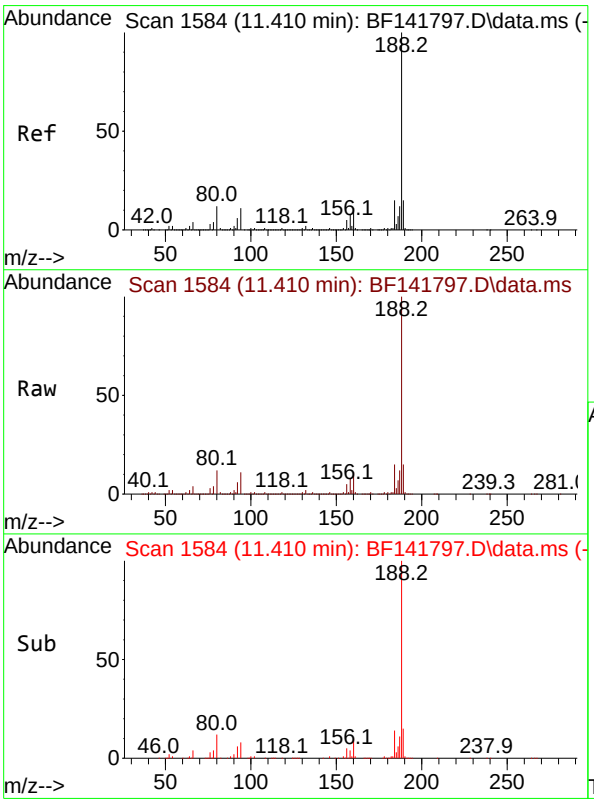
Ion	Ratio	Lower	Upper
77	100		
182	24.2	4.2	44.2
105	21.5	1.5	41.5
51	30.4	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

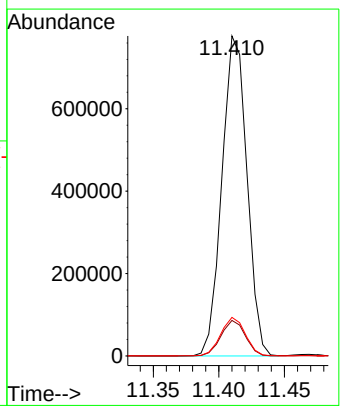
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

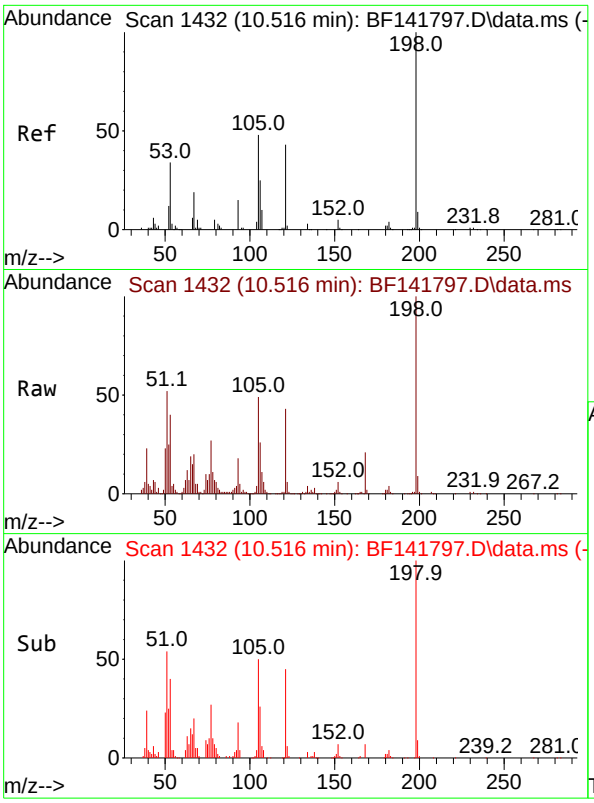


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:188 Resp: 1031875

Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.9	13.3
80	12.1	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 38.731 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

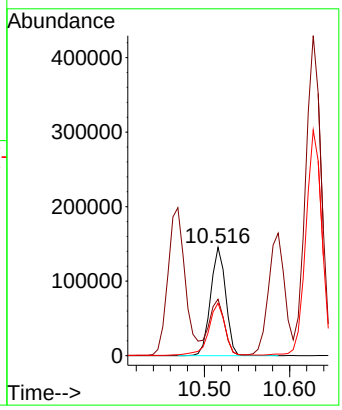
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

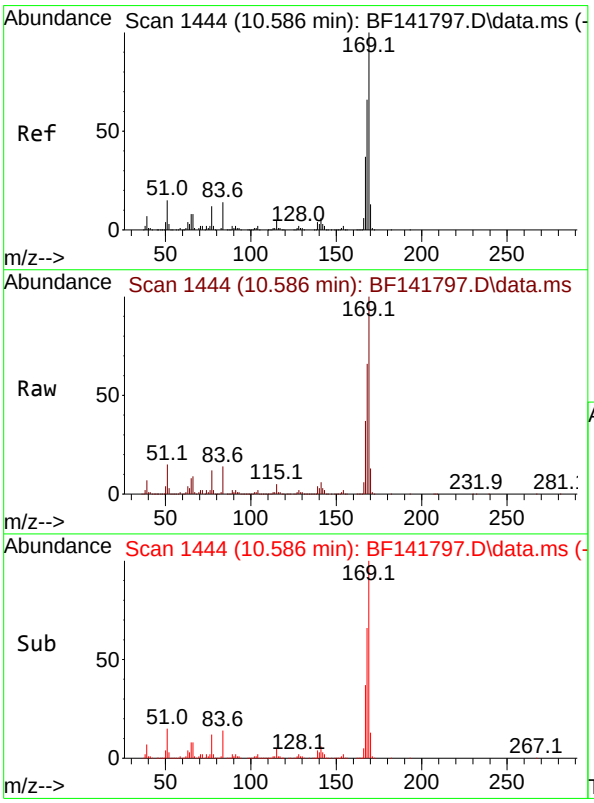
Tgt Ion:198 Resp: 179018

Ion	Ratio	Lower	Upper
198	100		
51	52.1	32.1	72.1
105	48.5	28.5	68.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

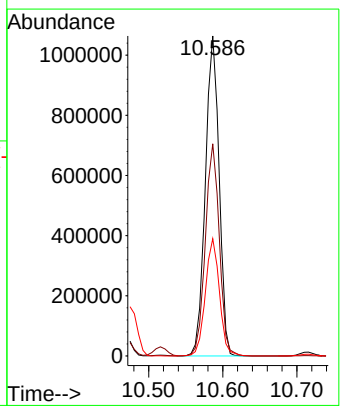


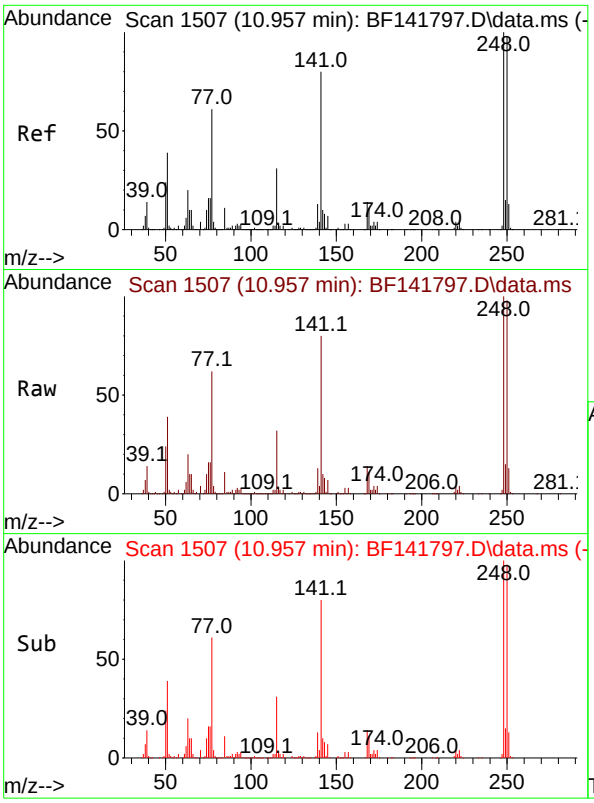


#66
n-Nitrosodiphenylamine
Concen: 40.485 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:169 Resp: 1371761

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.0	79.6
167	36.6	29.3	43.9

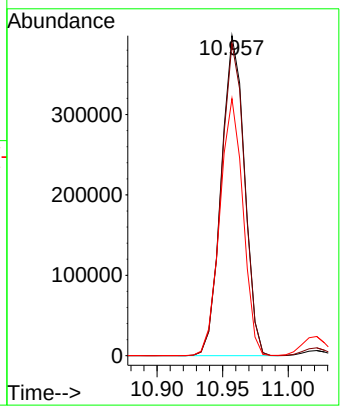




#67
4-Bromophenyl-phenylether
Concen: 40.722 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:248 Resp: 49081

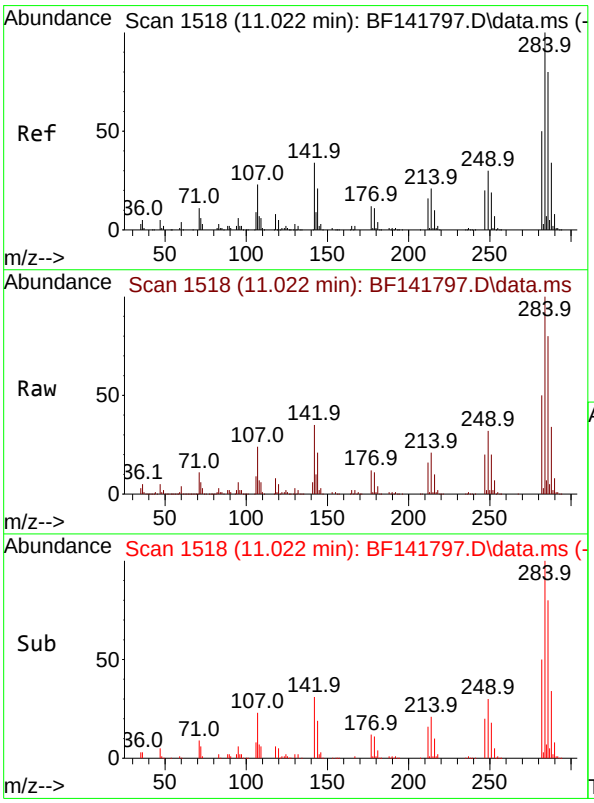
Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	80.4	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

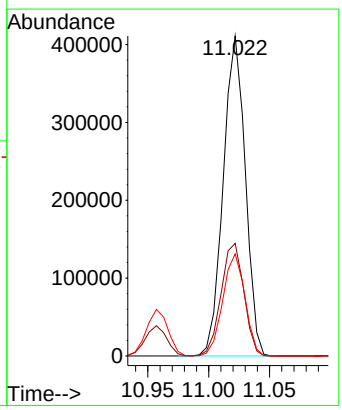
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

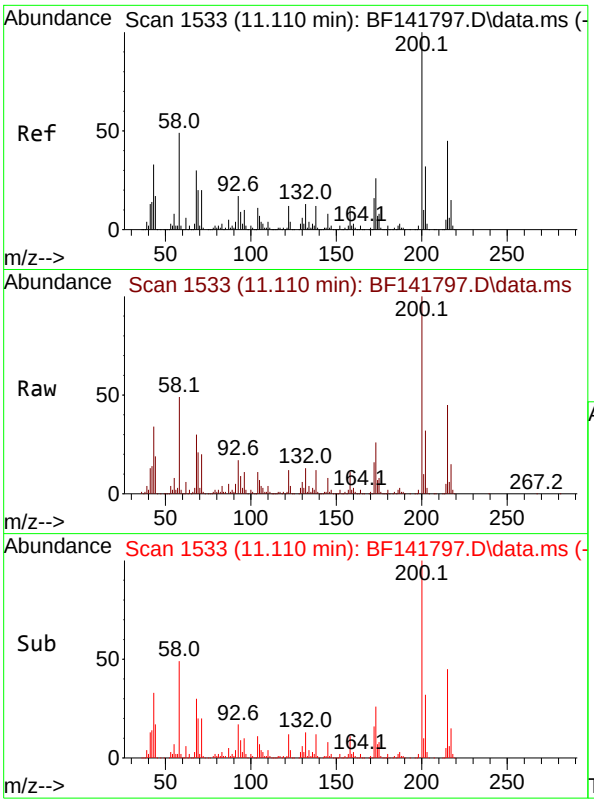


#68
Hexachlorobenzene
Concen: 40.721 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:284 Resp: 518266

Ion	Ratio	Lower	Upper
284	100		
142	35.2	28.2	42.2
249	31.9	25.5	38.3





#69
Atrazine
Concen: 39.649 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

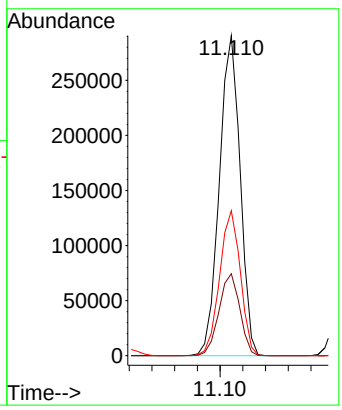
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

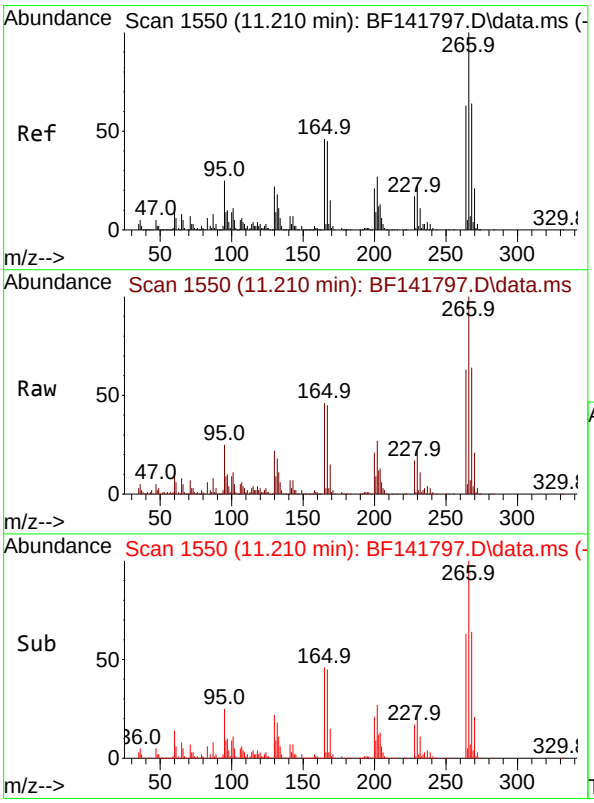
Tgt Ion:200 Resp: 36943

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	45.3	25.3	65.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

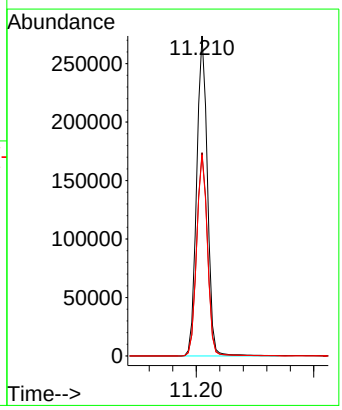


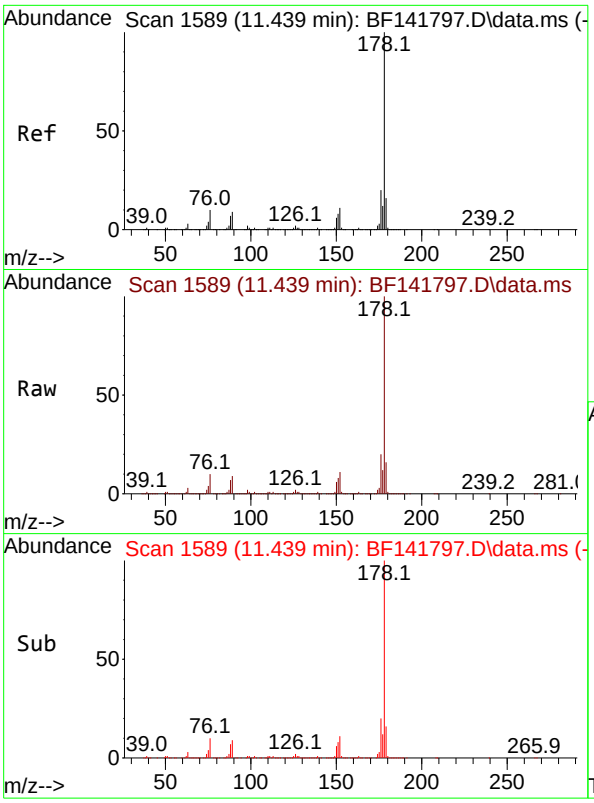


#70
Pentachlorophenol
Concen: 43.086 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:266 Resp: 347791

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.9	76.3
264	62.8	50.2	75.4

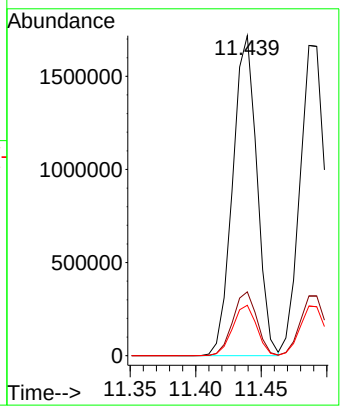




#71
Phenanthrene
Concen: 40.130 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 221495

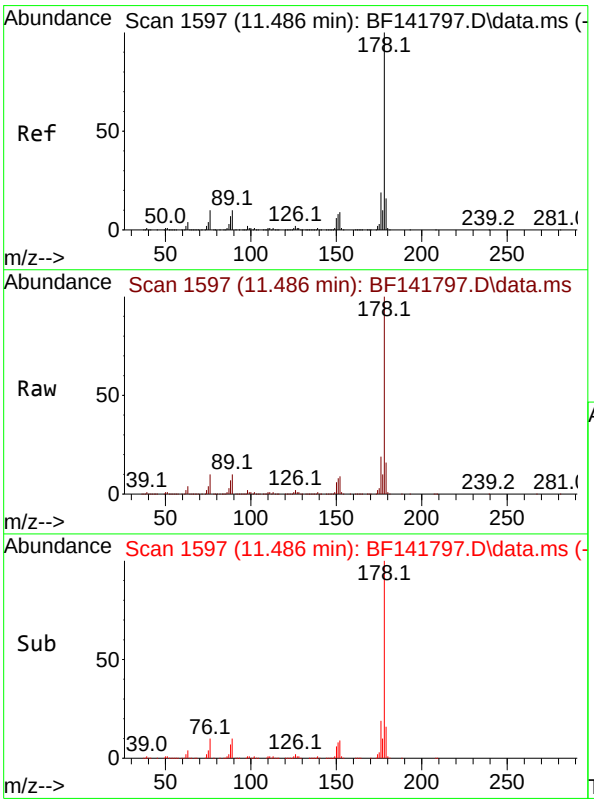
Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	15.8	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

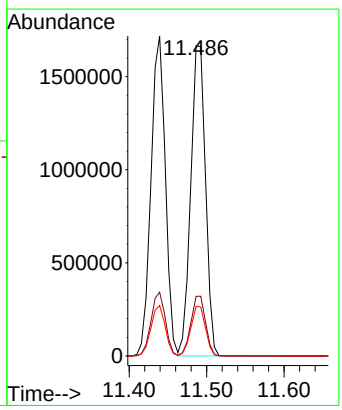
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

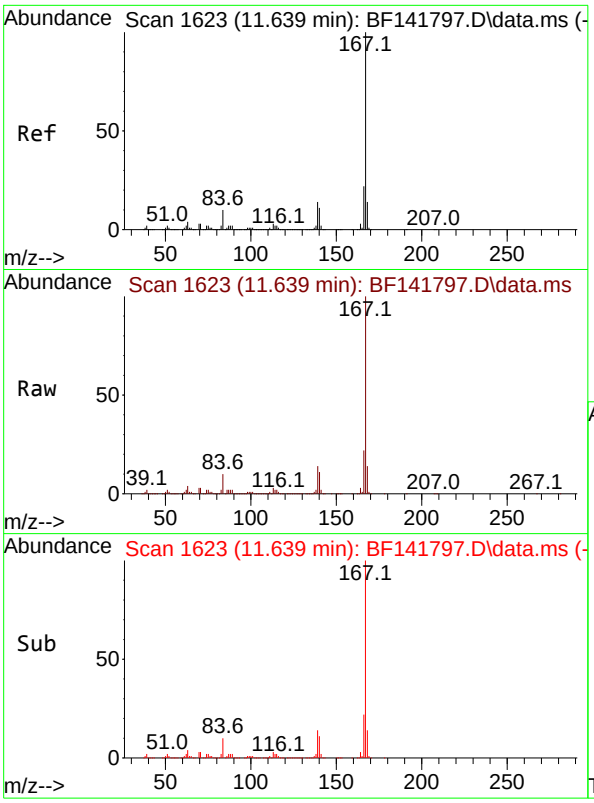


#72
Anthracene
Concen: 39.845 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 2204147

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	16.0	12.8	19.2

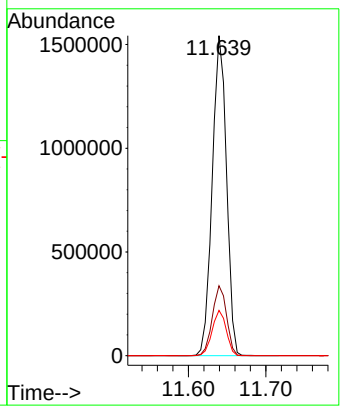




#73
Carbazole
Concen: 40.358 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:167 Resp: 197149

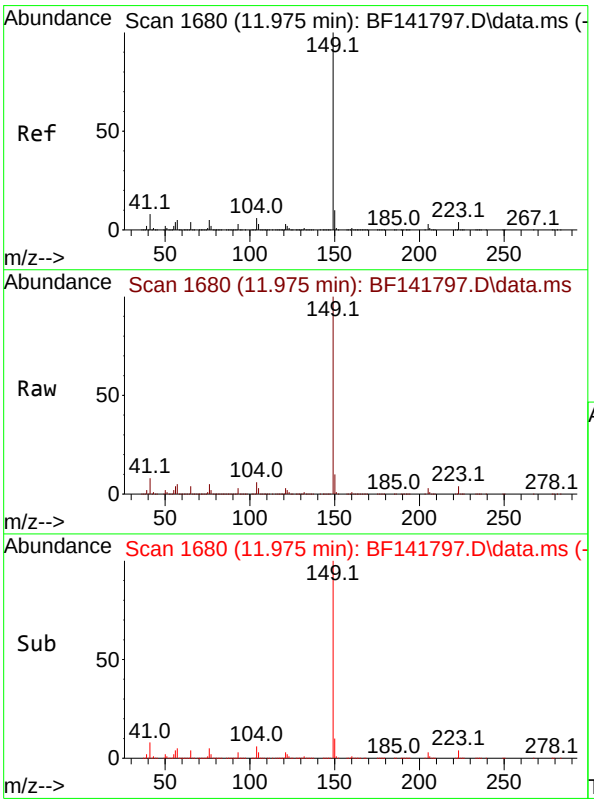
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.1	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

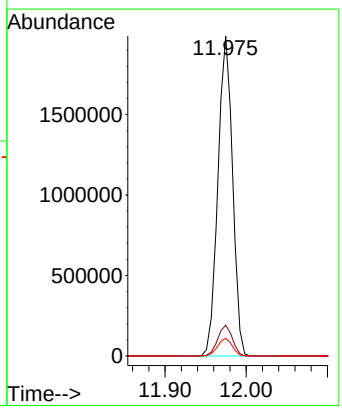
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

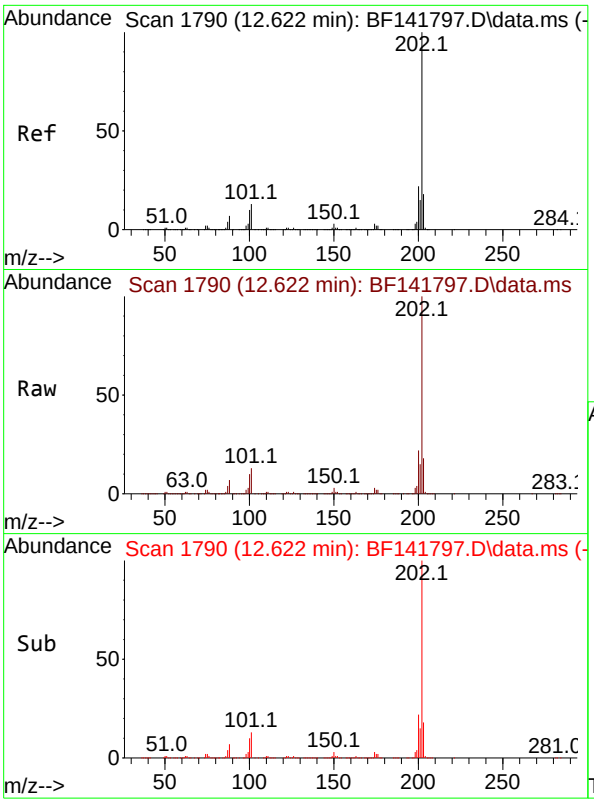


#74
Di-n-butylphthalate
Concen: 40.274 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 2493783

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.7	11.5
104	5.5	4.4	6.6

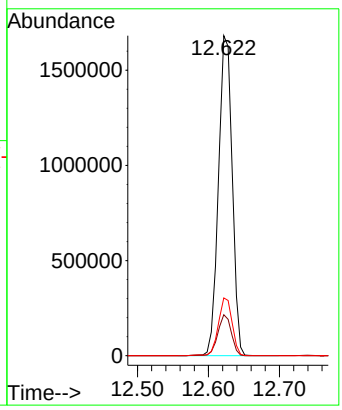




#75
Fluoranthene
Concen: 39.753 ng
RT: 12.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 224828

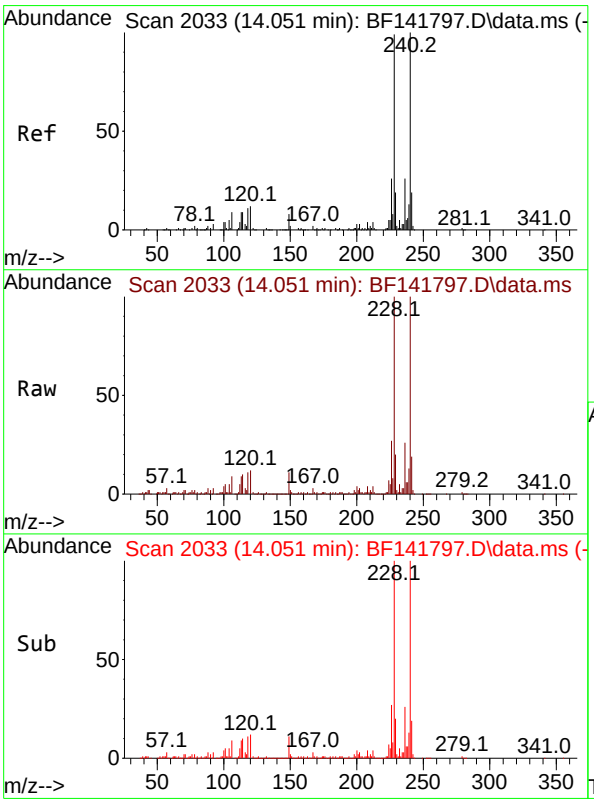
Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	32.8
203	18.0	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

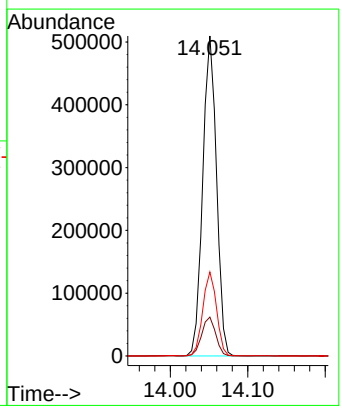
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

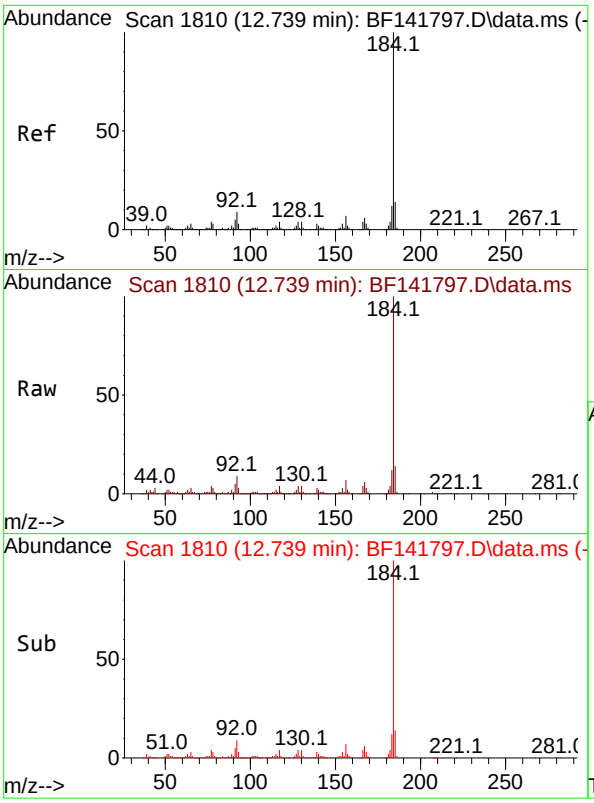


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:240 Resp: 629307

Ion	Ratio	Lower	Upper
240	100		
120	12.1	9.7	14.5
236	26.2	21.0	31.4





#77
Benzidine
Concen: 41.235 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

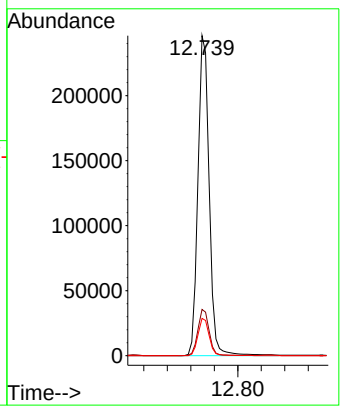
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

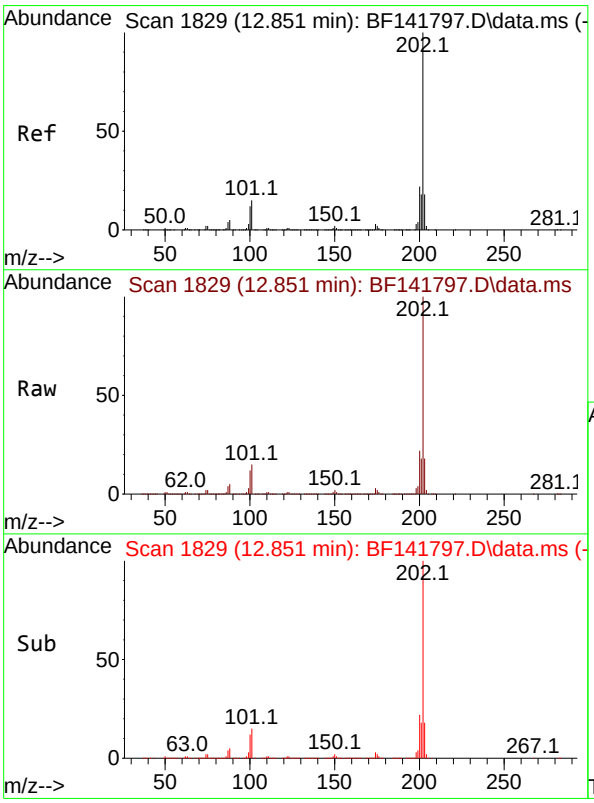
Tgt Ion:184 Resp: 32660

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	11.7	9.4	14.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

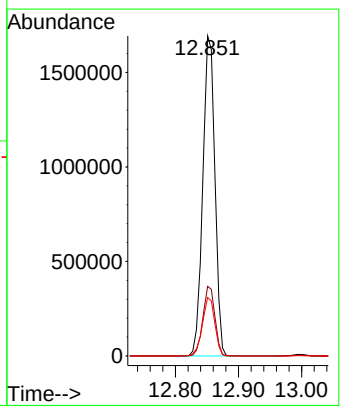


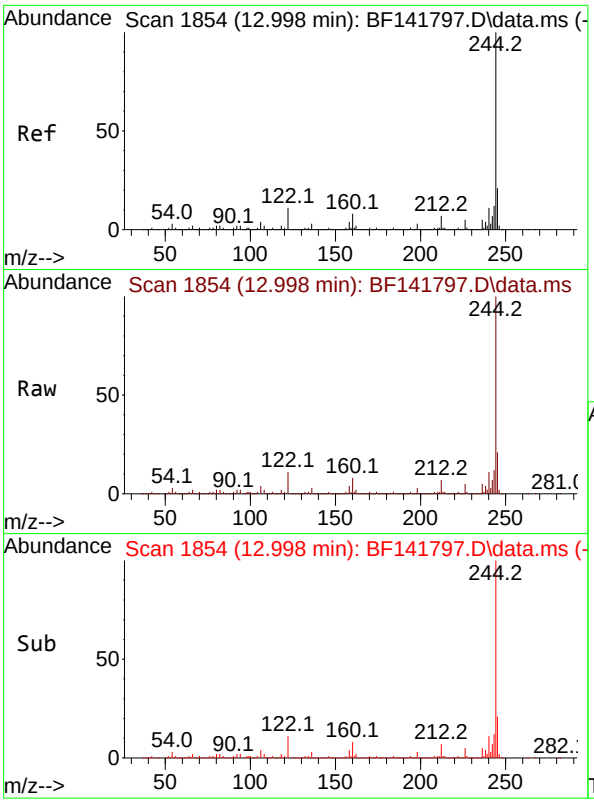


#78
Pyrene
Concen: 41.470 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 2259888

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.0
203	18.3	14.6	22.0

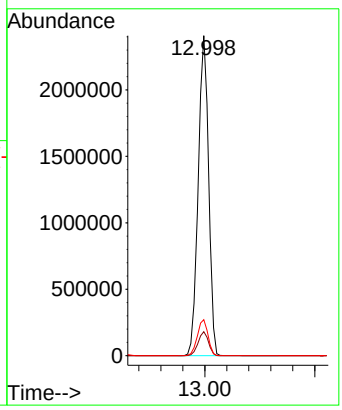




#79
Terphenyl-d14
Concen: 81.511 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:244 Resp: 317044

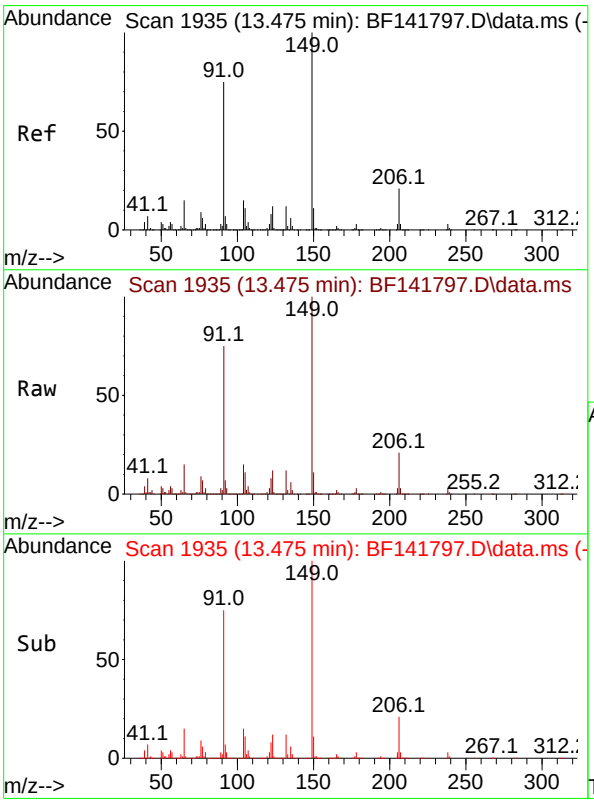
Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	11.3	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

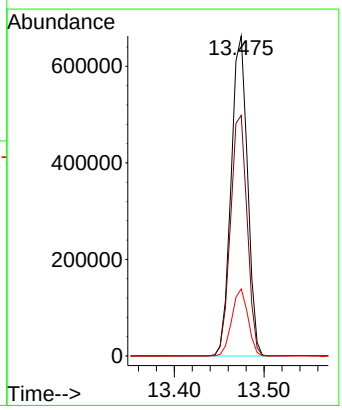
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

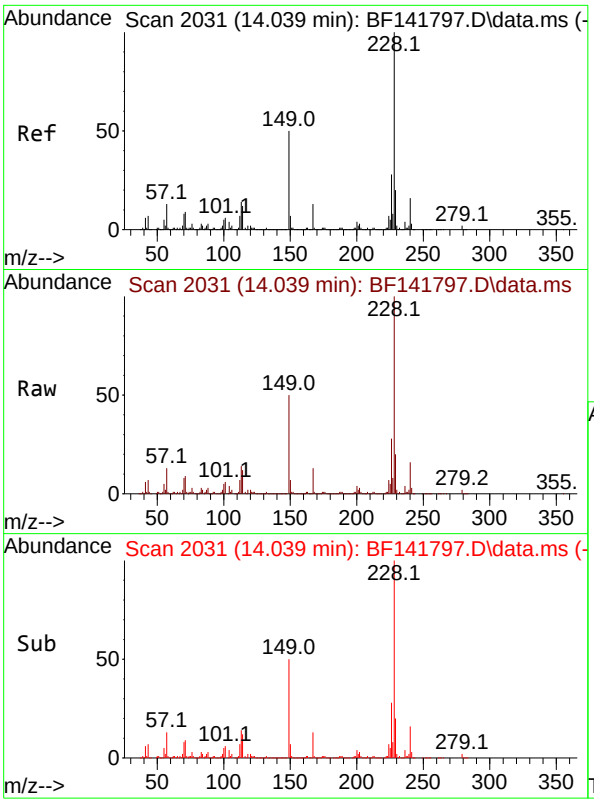


#80
Butylbenzylphthalate
Concen: 42.452 ng
RT: 13.475 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 840509

Ion	Ratio	Lower	Upper
149	100		
91	75.1	60.1	90.1
206	21.0	16.8	25.2

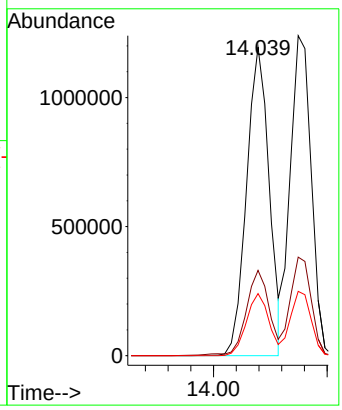




#81
Benzo(a)anthracene
Concen: 39.742 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 165193

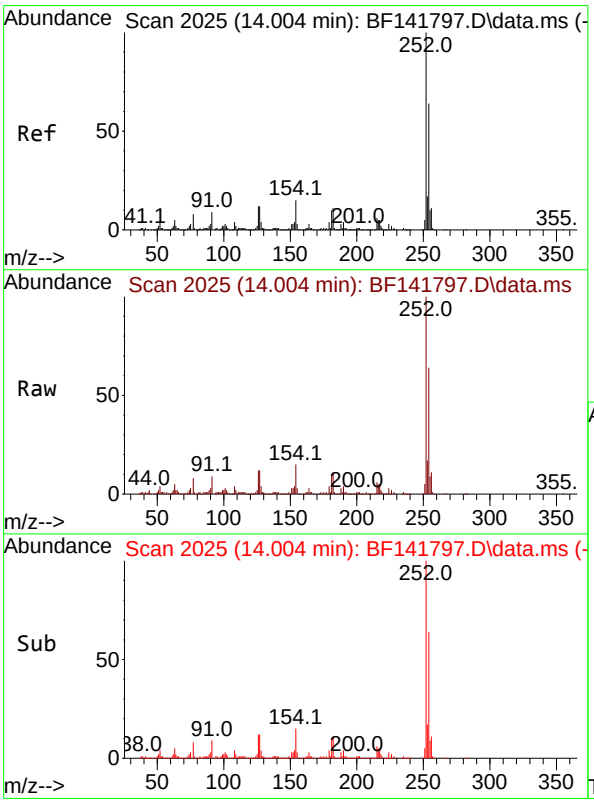
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.1	33.1
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

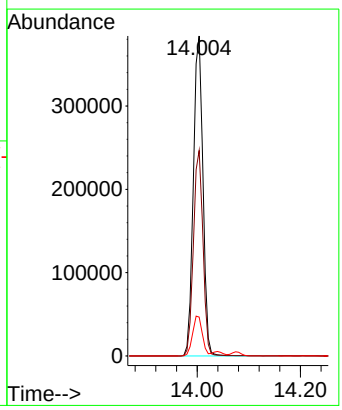
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

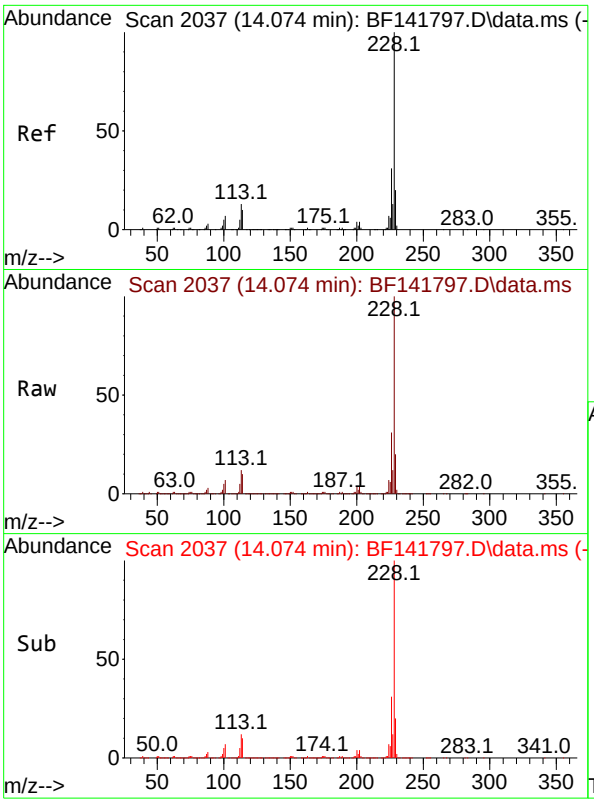


#82
3,3'-Dichlorobenzidine
Concen: 41.467 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 494528

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	12.2	9.8	14.6

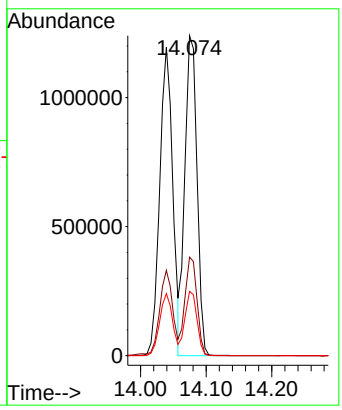




#83
Chrysene
Concen: 41.543 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 159181

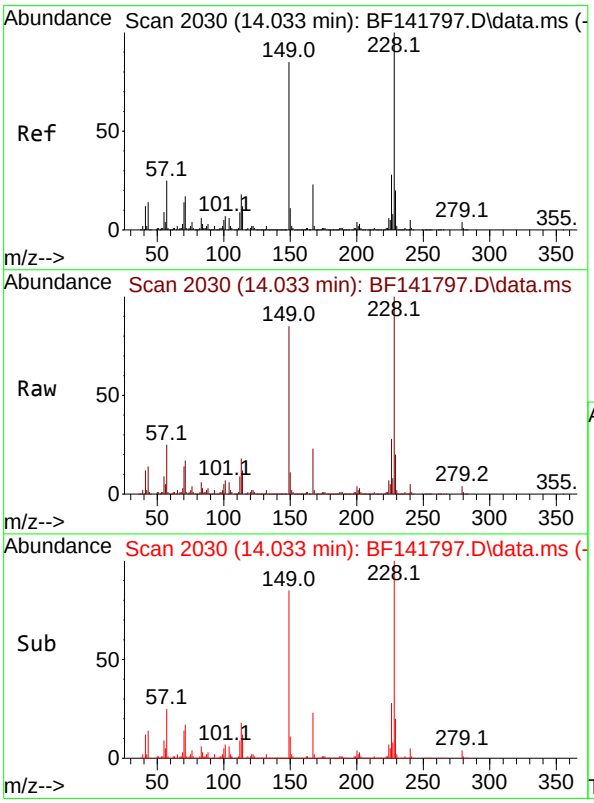
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

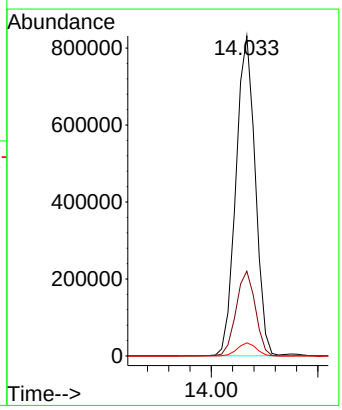
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

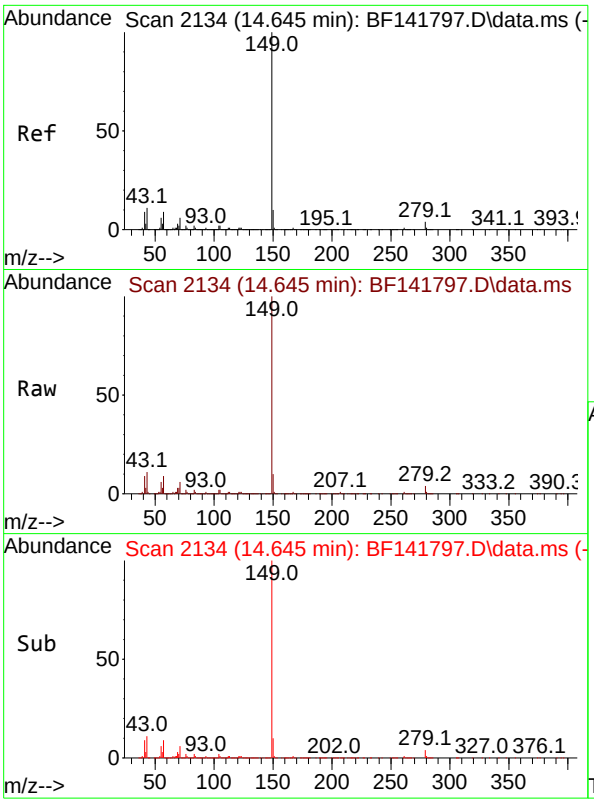


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.458 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 1046693

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.2	31.8
279	4.1	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 44.568 ng
RT: 14.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

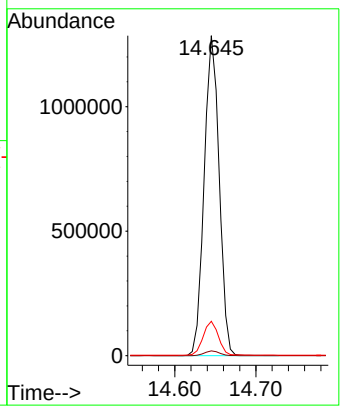
Tgt Ion:149 Resp: 164490

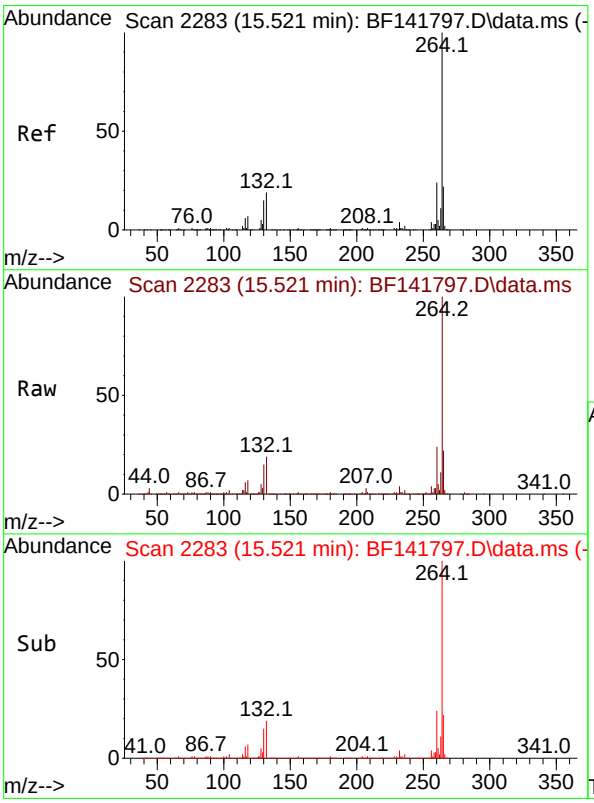
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.7	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

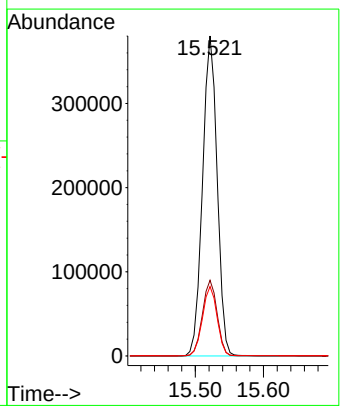


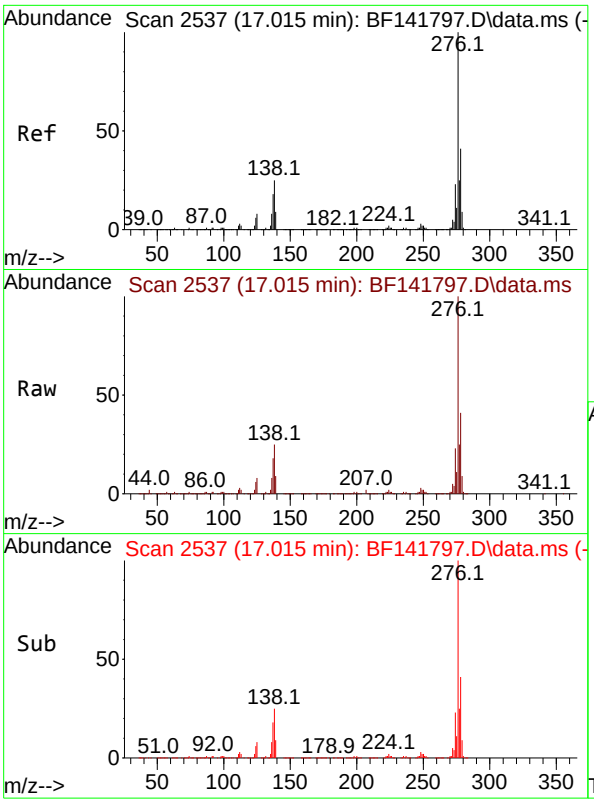


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:264 Resp: 567240

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.7	17.4	26.0

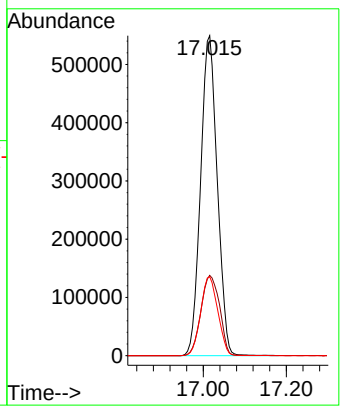




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.264 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 152657

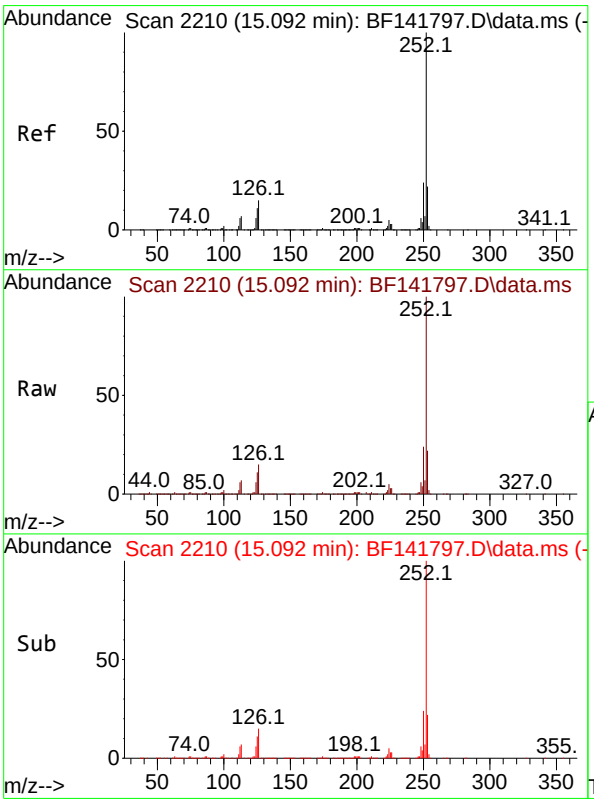
Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.5	33.7
277	25.4	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

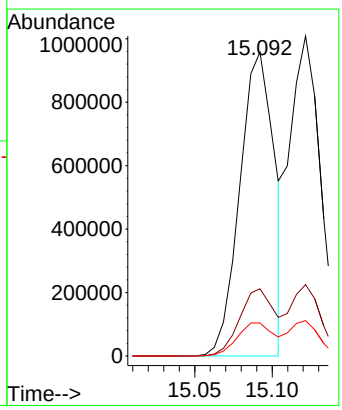
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

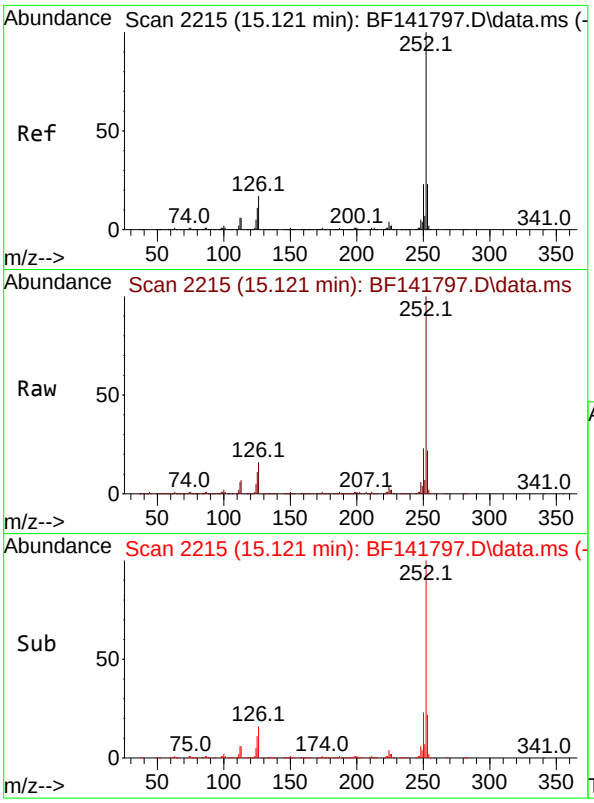


#88
Benzo(b)fluoranthene
Concen: 38.353 ng
RT: 15.092 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 1481931

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.8	8.6	13.0

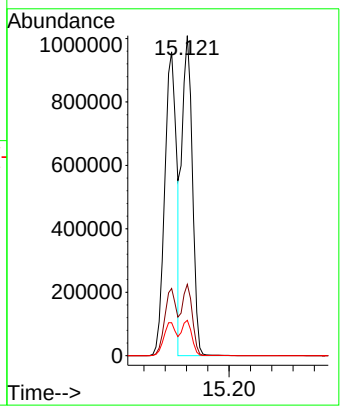




#89
Benzo(k)fluoranthene
Concen: 41.943 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 137747

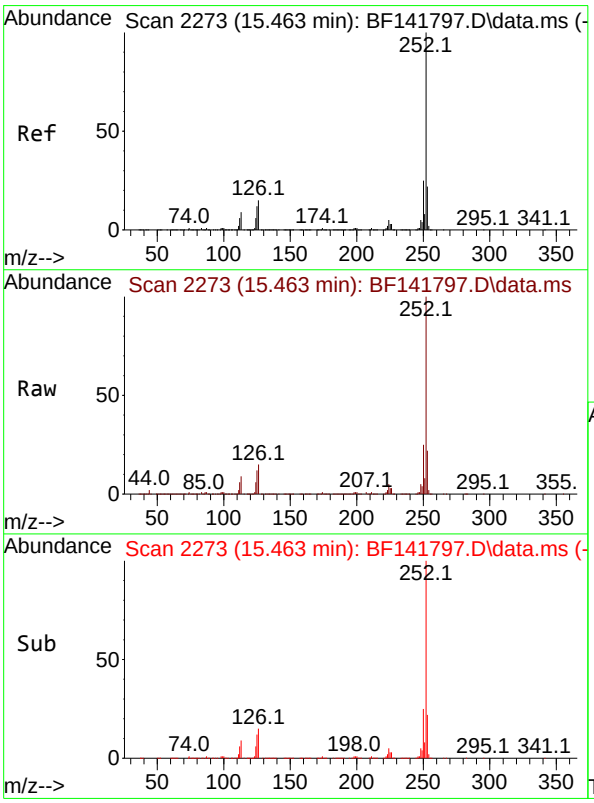
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

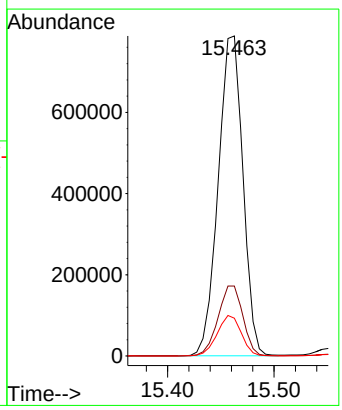
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

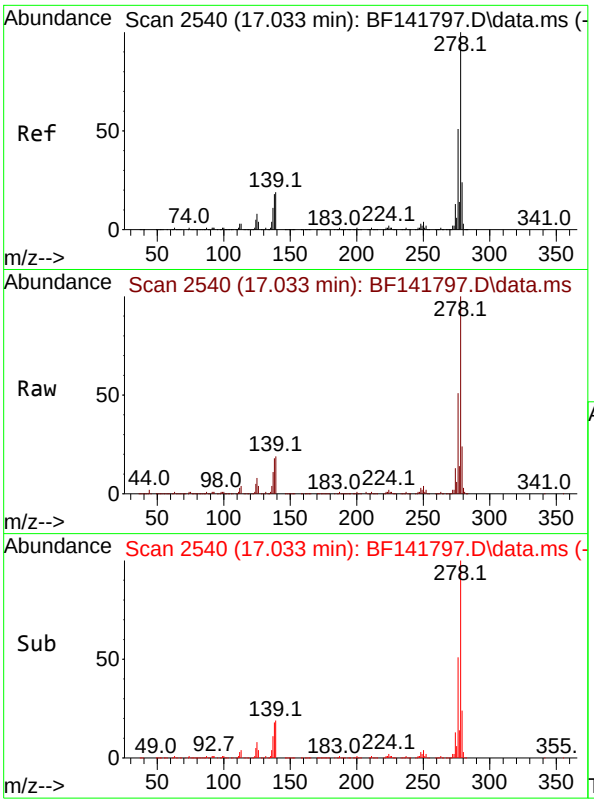


#90
Benzo(a)pyrene
Concen: 40.981 ng
RT: 15.463 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 1269914

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.8	9.4	14.2

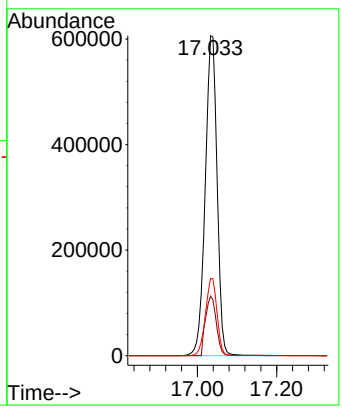




#91
Dibenzo(a,h)anthracene
Concen: 42.664 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:278 Resp: 125786

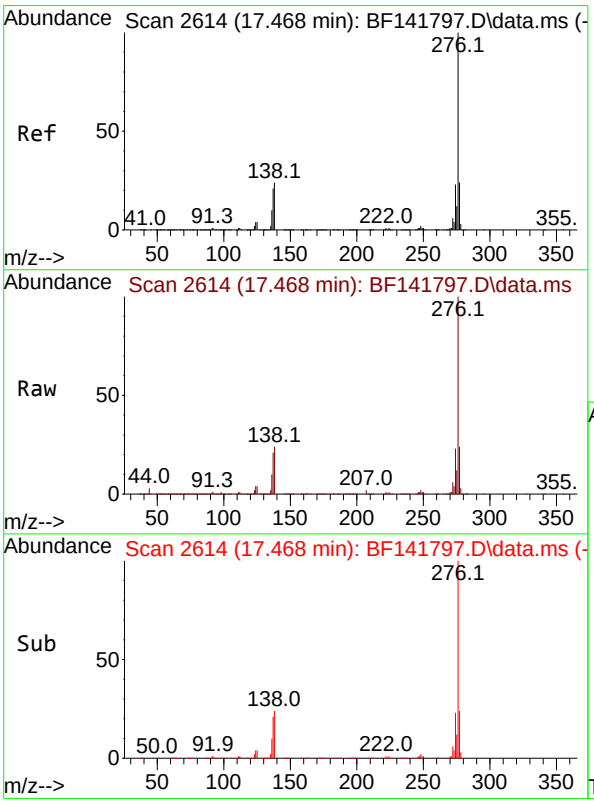
Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.9	22.3
279	24.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

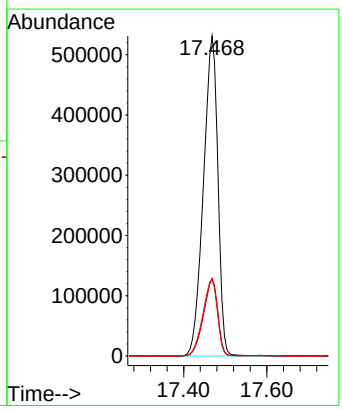
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 42.430 ng
RT: 17.468 min Scan# 2614
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 1281590

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	24.1	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	294968	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	1175652	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	632437	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1007266	20.000	ng		0.00
76) Chrysene-d12	14.051	240	571903	20.000	ng		0.00
86) Perylene-d12	15.521	264	520644	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	1747157	94.593	ng		0.00
7) Phenol-d6	6.510	99	2273216	94.557	ng		0.00
23) Nitrobenzene-d5	7.457	82	1953916	106.234	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	580093	97.701	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	3566962	90.435	ng		0.00
79) Terphenyl-d14	12.998	244	3516535	99.483	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	401754	47.937	ng		99
3) Pyridine	3.451	79	1017692	48.805	ng		99
4) n-Nitrosodimethylamine	3.404	42	497063	49.541	ng		99
6) Aniline	6.557	93	1210646	48.702	ng		100
8) 2-Chlorophenol	6.675	128	957860	47.940	ng		99
9) Benzaldehyde	6.440	77	644844	46.113	ng		99
10) Phenol	6.528	94	1210418	47.257	ng		99
11) bis(2-Chloroethyl)ether	6.628	93	943249	48.169	ng		99
12) 1,3-Dichlorobenzene	6.834	146	1016156	47.489	ng		99
13) 1,4-Dichlorobenzene	6.910	146	1024761	47.531	ng		100
14) 1,2-Dichlorobenzene	7.063	146	948038	47.090	ng		99
15) Benzyl Alcohol	7.028	79	927459	48.272	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1423138	47.854	ng		100
17) 2-Methylphenol	7.134	107	795600	48.240	ng		99
18) Hexachloroethane	7.404	117	393322	48.741	ng		99
19) n-Nitroso-di-n-propyla...	7.310	70	744192	47.090	ng		99
20) 3+4-Methylphenols	7.292	107	961623	46.825	ng	#	87
22) Acetophenone	7.298	105	1339971	46.798	ng		97
24) Nitrobenzene	7.475	77	1025625	52.073	ng		99
25) Isophorone	7.716	82	1886546	47.744	ng		99
26) 2-Nitrophenol	7.786	139	425765	48.354	ng		99
27) 2,4-Dimethylphenol	7.816	122	698393	48.082	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	1186179	47.060	ng		100
29) 2,4-Dichlorophenol	8.022	162	813150	48.527	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	875703	47.693	ng		99
31) Naphthalene	8.192	128	2820879	46.685	ng		100
32) Benzoic acid	7.945	122	587574	48.392	ng		99
33) 4-Chloroaniline	8.239	127	1028715	46.432	ng		99
34) Hexachlorobutadiene	8.310	225	551683	48.351	ng		99
35) Caprolactam	8.622	113	248725	48.241	ng		98
36) 4-Chloro-3-methylphenol	8.716	107	880725	47.314	ng		99
37) 2-Methylnaphthalene	8.886	142	1825639	46.064	ng		99
38) 1-Methylnaphthalene	8.986	142	1745465	45.899	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	868619	47.555	ng		100
41) Hexachlorocyclopentadiene	9.039	237	388222	50.930	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	578263	49.010	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

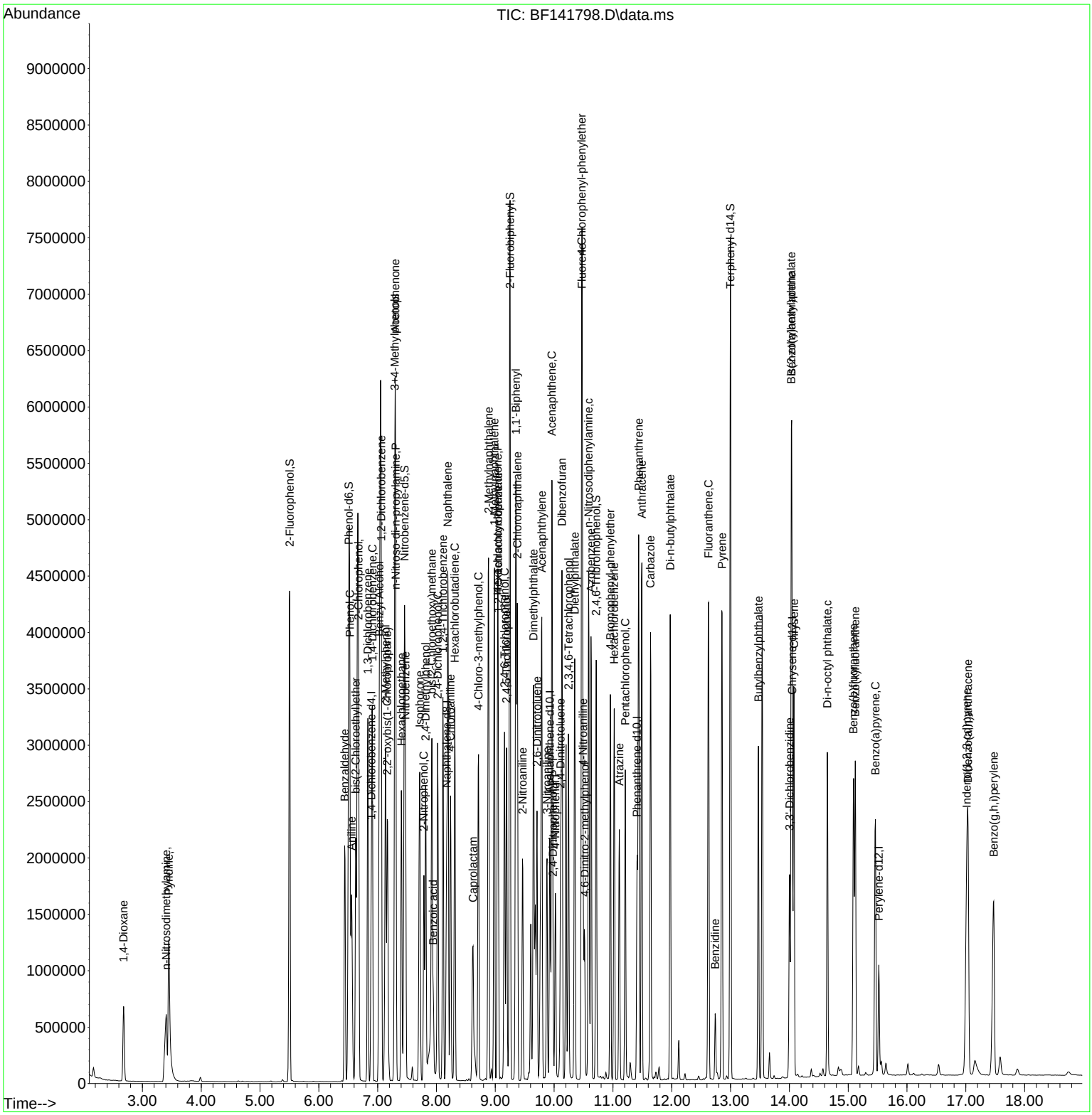
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	574978	49.213	ng		100
46) 1,1'-Biphenyl	9.351	154	2234592	46.420	ng		100
47) 2-Chloronaphthalene	9.375	162	1672555	47.075	ng		99
48) 2-Nitroaniline	9.463	65	469075	48.211	ng		98
49) Acenaphthylene	9.792	152	2466104	46.294	ng		99
50) Dimethylphthalate	9.651	163	1994958	47.103	ng		100
51) 2,6-Dinitrotoluene	9.710	165	396873	48.926	ng		99
52) Acenaphthene	9.963	154	1689163	46.994	ng		100
53) 3-Nitroaniline	9.880	138	417015	48.300	ng		97
54) 2,4-Dinitrophenol	9.980	184	151706	48.388	ng	#	8
55) Dibenzofuran	10.133	168	2422882	46.312	ng		100
56) 4-Nitrophenol	10.022	139	340020	54.357	ng		98
57) 2,4-Dinitrotoluene	10.110	165	490028	49.405	ng		100
58) Fluorene	10.475	166	1783757	45.518	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	489160	48.140	ng		97
60) Diethylphthalate	10.351	149	1991111	46.896	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	904835	46.084	ng		99
62) 4-Nitroaniline	10.492	138	391399	54.114	ng		98
63) Azobenzene	10.627	77	2087153	46.687	ng		100
65) 4,6-Dinitro-2-methylph...	10.522	198	227493	47.968	ng		95
66) n-Nitrosodiphenylamine	10.586	169	1588976	48.041	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	572161	48.631	ng		100
68) Hexachlorobenzene	11.022	284	605103	48.705	ng		99
69) Atrazine	11.110	200	374540	41.179	ng		99
70) Pentachlorophenol	11.210	266	400352	50.809	ng		100
71) Phenanthrene	11.439	178	2521849	46.806	ng		99
72) Anthracene	11.492	178	2522132	46.707	ng		100
73) Carbazole	11.639	167	2220778	46.572	ng		100
74) Di-n-butylphthalate	11.974	149	2839813	46.982	ng		100
75) Fluoranthene	12.627	202	2499217	45.269	ng		99
77) Benzidine	12.739	184	305582	42.453	ng		99
78) Pyrene	12.857	202	2484995	50.178	ng		100
80) Butylbenzylphthalate	13.474	149	929464	51.657	ng		99
81) Benzo(a)anthracene	14.039	228	1777948	47.067	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	520451	48.021	ng		99
83) Chrysene	14.080	228	1694396	48.659	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1159761	51.766	ng		100
85) Di-n-octyl phthalate	14.645	149	1865081	55.606	ng		100
87) Indeno(1,2,3-cd)pyrene	17.015	276	1740850	52.510	ng		100
88) Benzo(b)fluoranthene	15.092	252	1603729	45.220	ng		100
89) Benzo(k)fluoranthene	15.121	252	1516995	50.326	ng		100
90) Benzo(a)pyrene	15.462	252	1379319	48.495	ng		100
91) Dibenzo(a,h)anthracene	17.039	278	1423862	52.616	ng		99
92) Benzo(g,h,i)perylene	17.474	276	1469480	53.005	ng		99

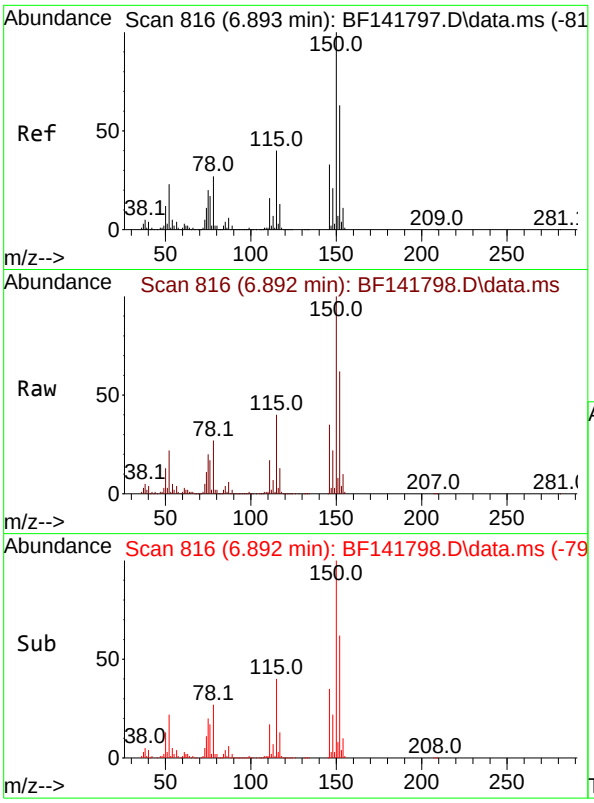
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141798.D
Acq On : 27 Feb 2025 17:46
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Feb 28 01:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration



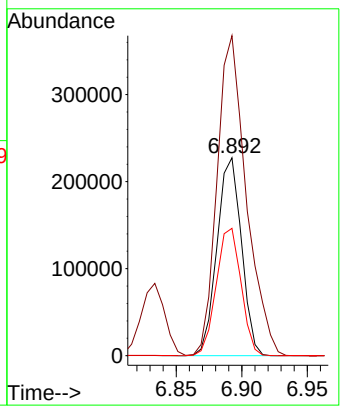


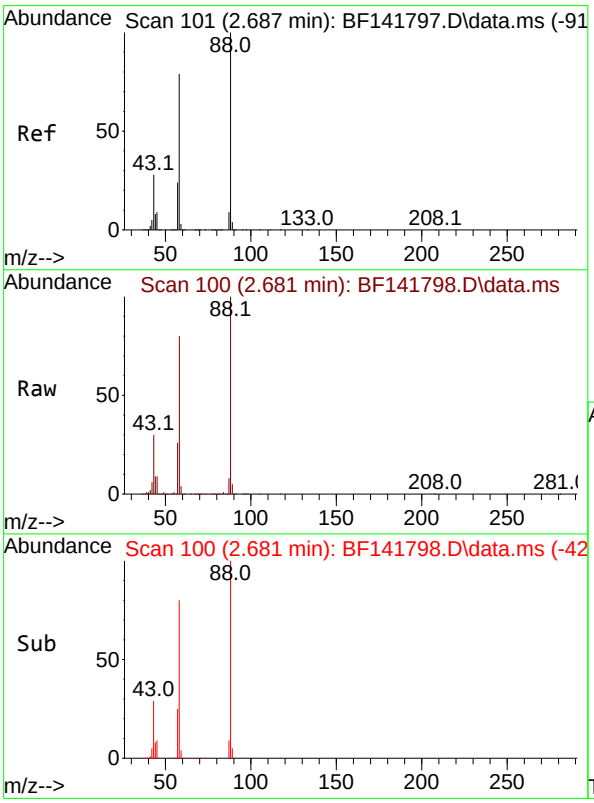
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 294968

Ion	Ratio	Lower	Upper
152	100		
150	161.7	127.5	191.3
115	64.3	51.4	77.2

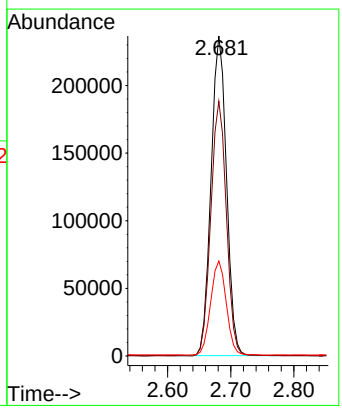


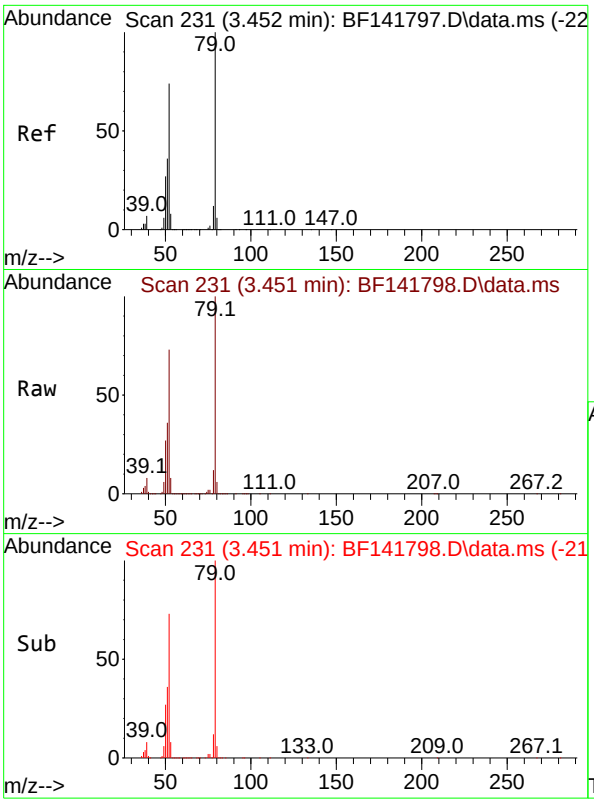


#2
1,4-Dioxane
Concen: 47.937 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 88 Resp: 401754

Ion	Ratio	Lower	Upper
88	100		
58	80.2	63.9	95.9
43	29.6	23.0	34.6



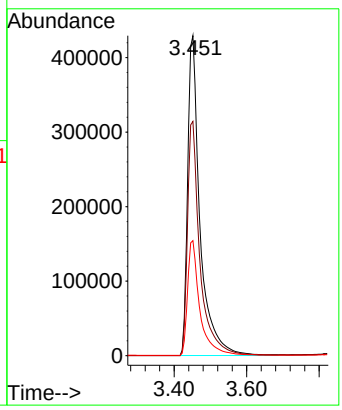


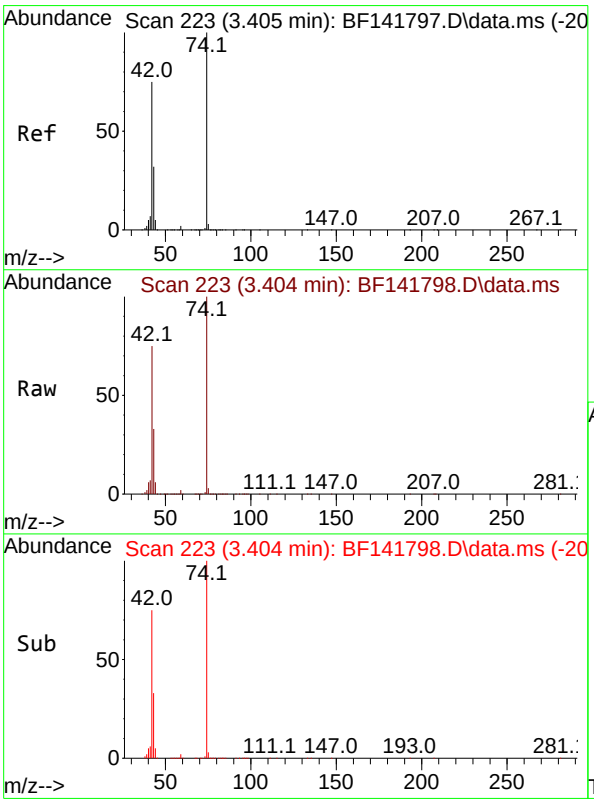
#3
Pyridine
Concen: 48.805 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 1017692

Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.9	29.0	43.4

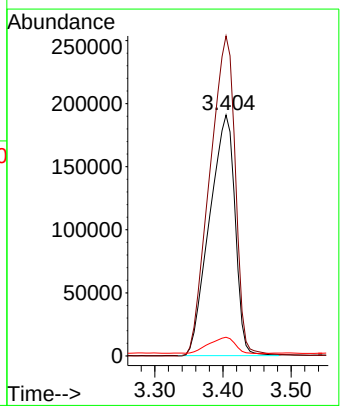


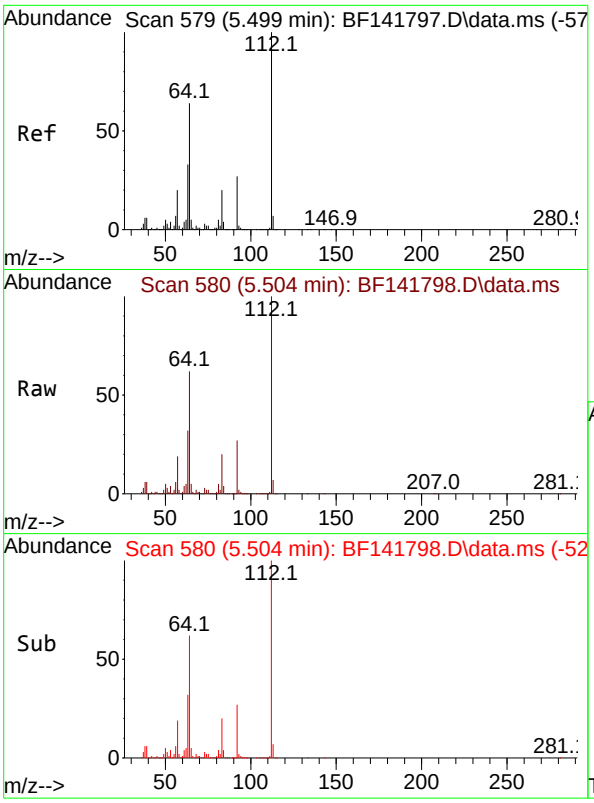


#4
n-Nitrosodimethylamine
Concen: 49.541 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 42 Resp: 497063

Ion	Ratio	Lower	Upper
42	100		
74	132.8	107.1	160.7
44	7.7	6.6	9.8



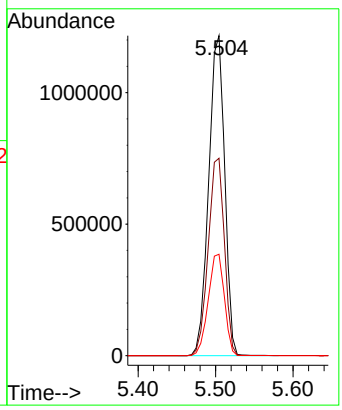


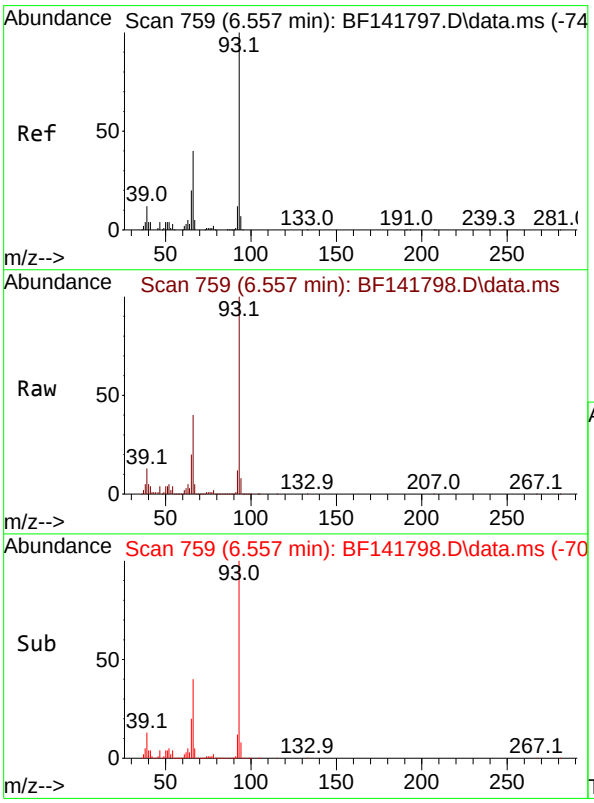
#5
2-Fluorophenol
Concen: 94.593 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 1747157

Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.3	76.9
63	31.7	26.2	39.4

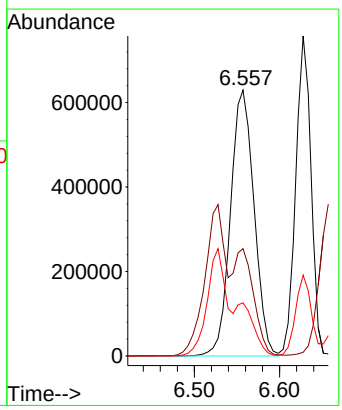


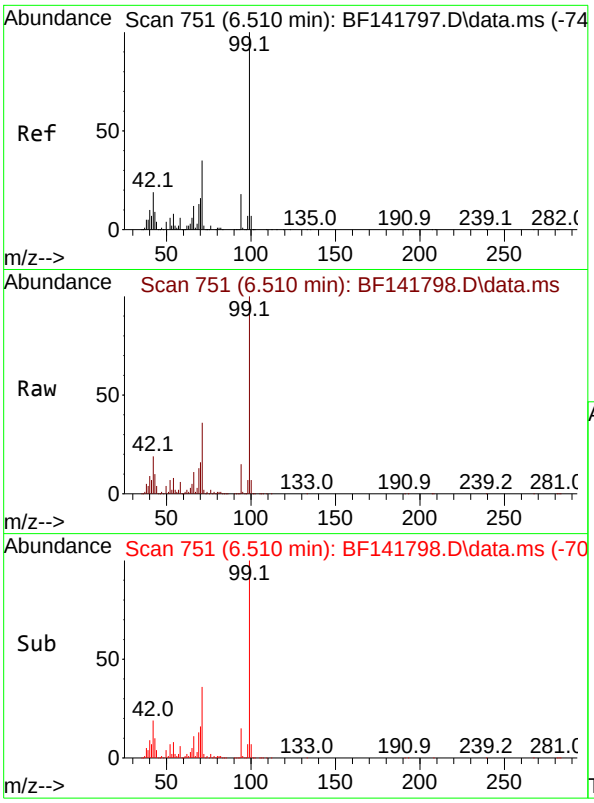


#6
Aniline
Concen: 48.702 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 93 Resp: 1210646

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	20.0	15.9	23.9



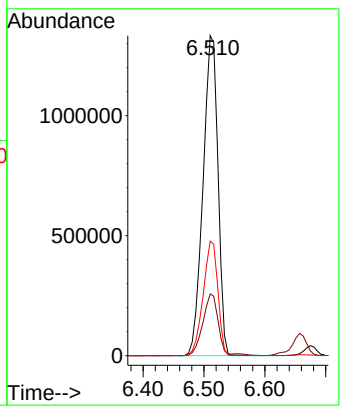


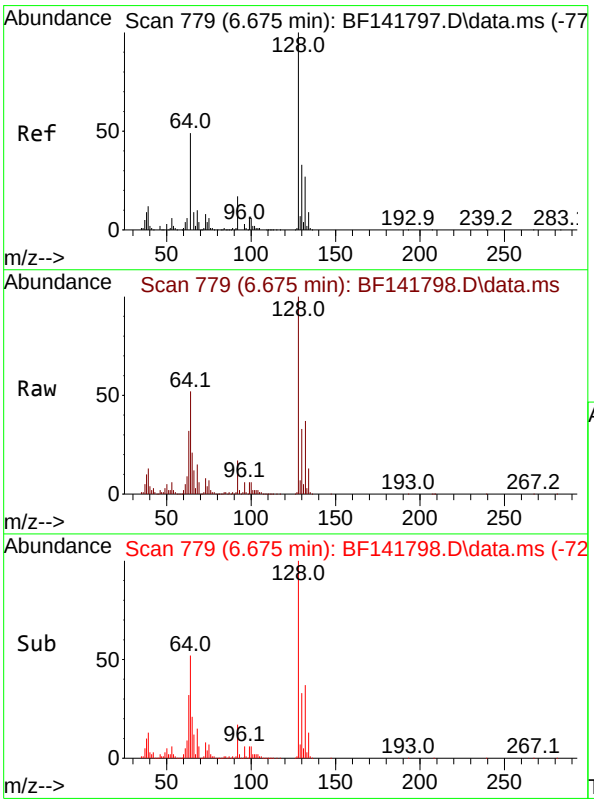
#7
Phenol-d6
Concen: 94.557 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 2273216

Ion	Ratio	Lower	Upper
99	100		
42	19.3	15.2	22.8
71	35.8	28.2	42.2

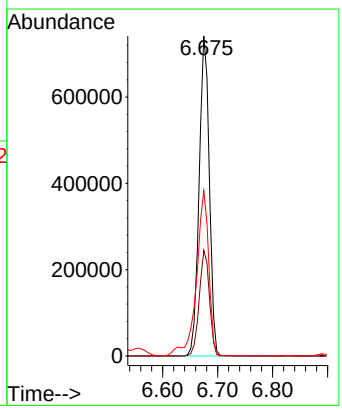


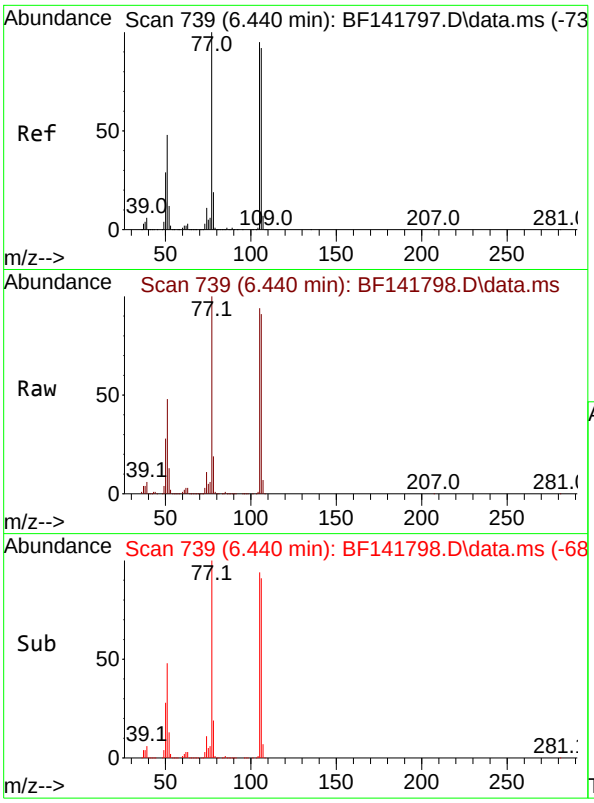


#8
2-Chlorophenol
Concen: 47.940 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:128 Resp: 957860

Ion	Ratio	Lower	Upper
128	100		
130	33.0	12.6	52.6
64	51.6	31.1	71.1



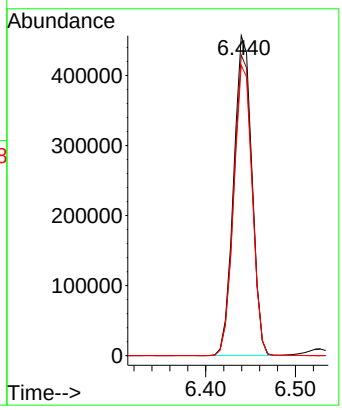


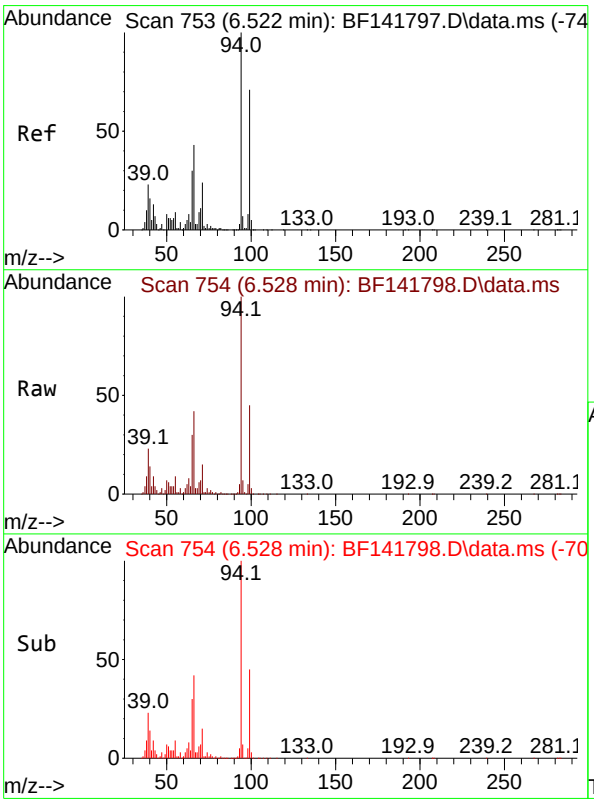
#9
Benzaldehyde
Concen: 46.113 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 644844

Ion	Ratio	Lower	Upper
77	100		
105	93.9	75.3	115.3
106	90.8	72.3	112.3

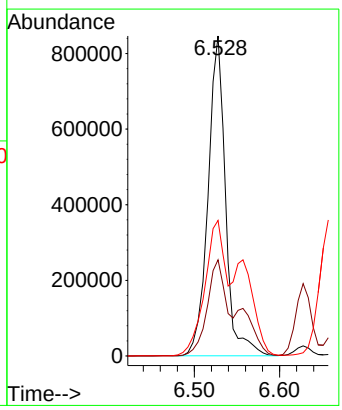


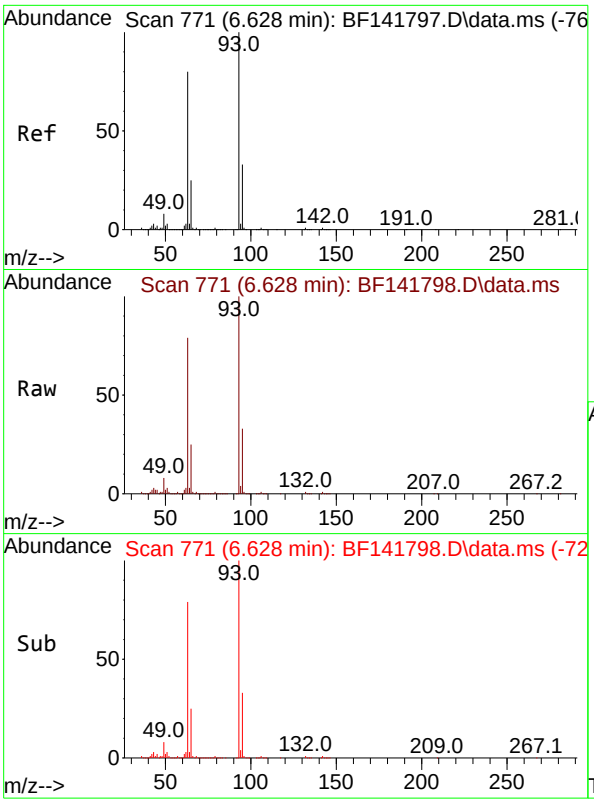


#10
Phenol
Concen: 47.257 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 94 Resp: 1210418

Ion	Ratio	Lower	Upper
94	100		
65	30.0	10.2	50.2
66	42.3	23.2	63.2



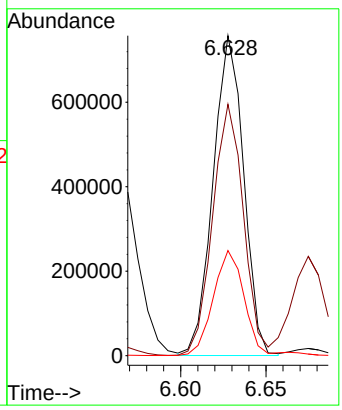


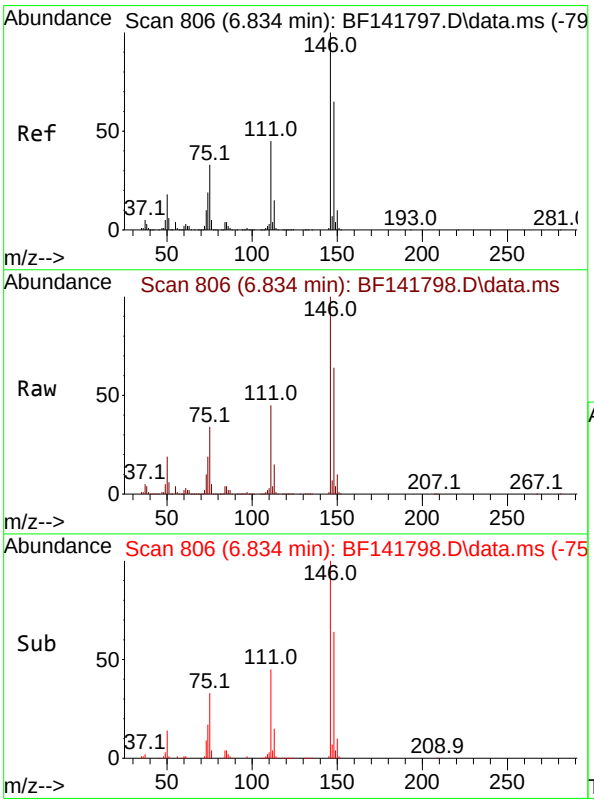
#11
bis(2-Chloroethyl)ether
Concen: 48.169 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 943249

Ion	Ratio	Lower	Upper
93	100		
63	78.6	59.3	99.3
95	32.9	13.2	53.2

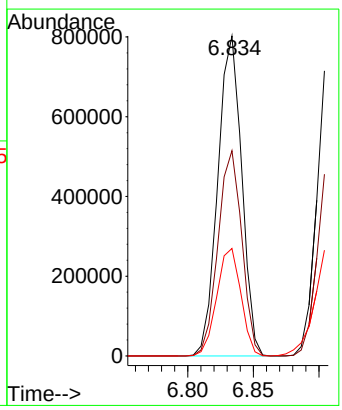


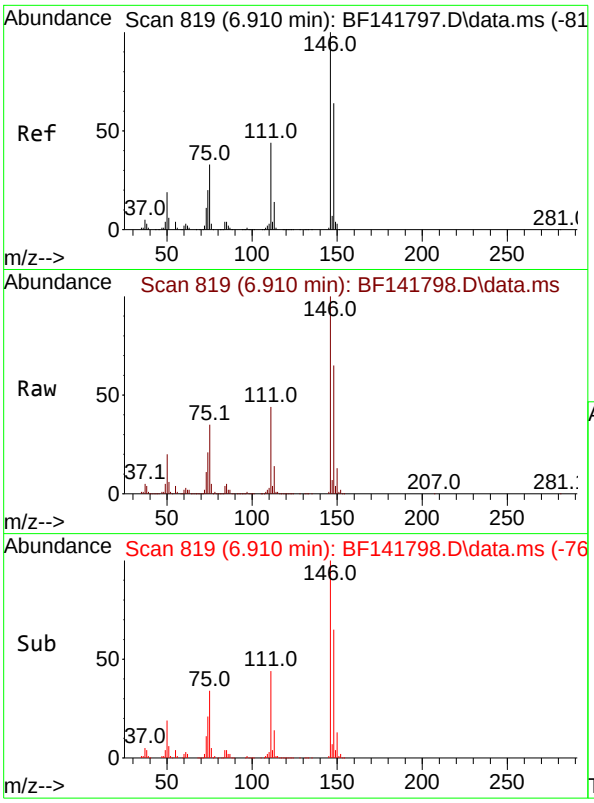


#12
1,3-Dichlorobenzene
Concen: 47.489 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:146 Resp: 1016156

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.6
75	33.6	26.2	39.4



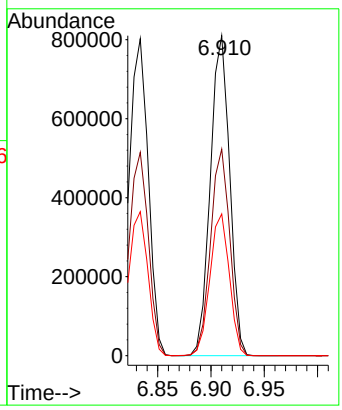


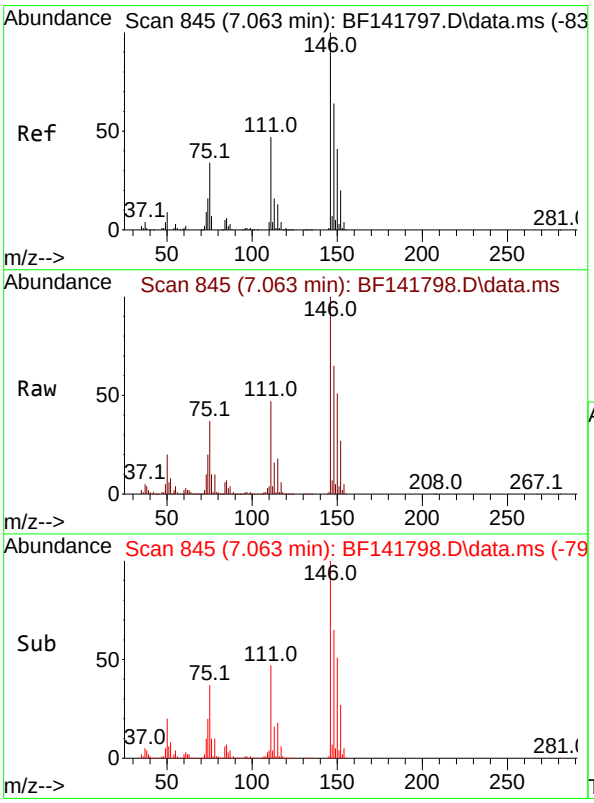
#13
1,4-Dichlorobenzene
Concen: 47.531 ng
RT: 6.910 min Scan# 81
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 1024761

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.4	77.2
111	44.3	35.5	53.3

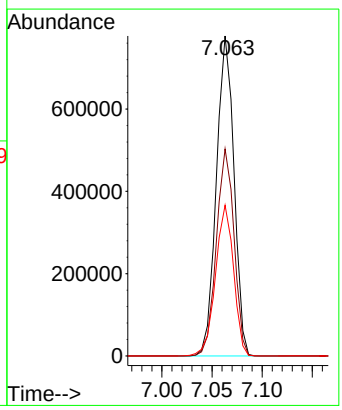


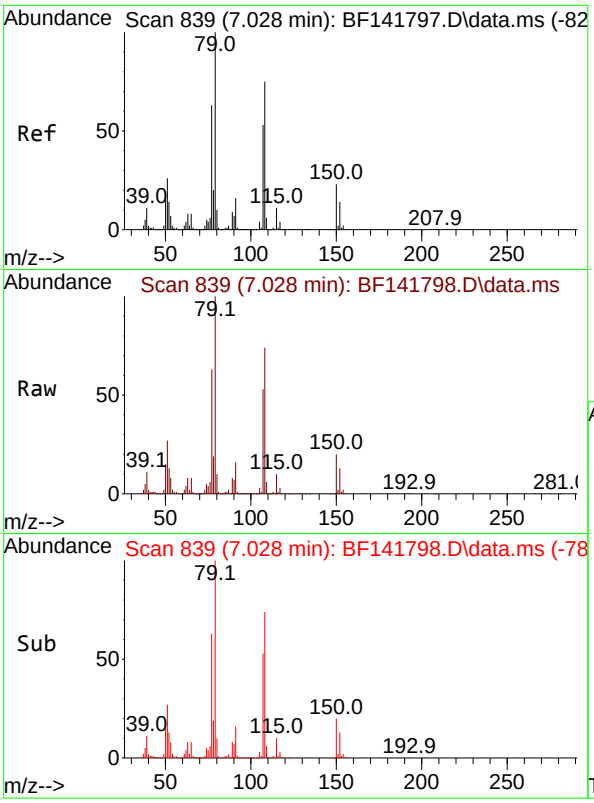


#14
1,2-Dichlorobenzene
Concen: 47.090 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:146 Resp: 948038

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.2	76.8
111	47.1	37.8	56.6



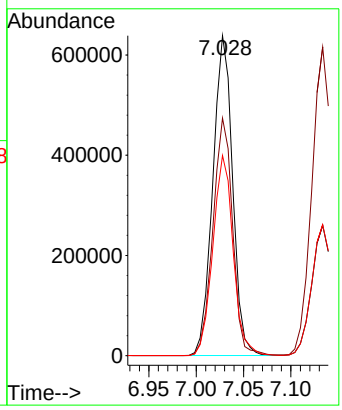


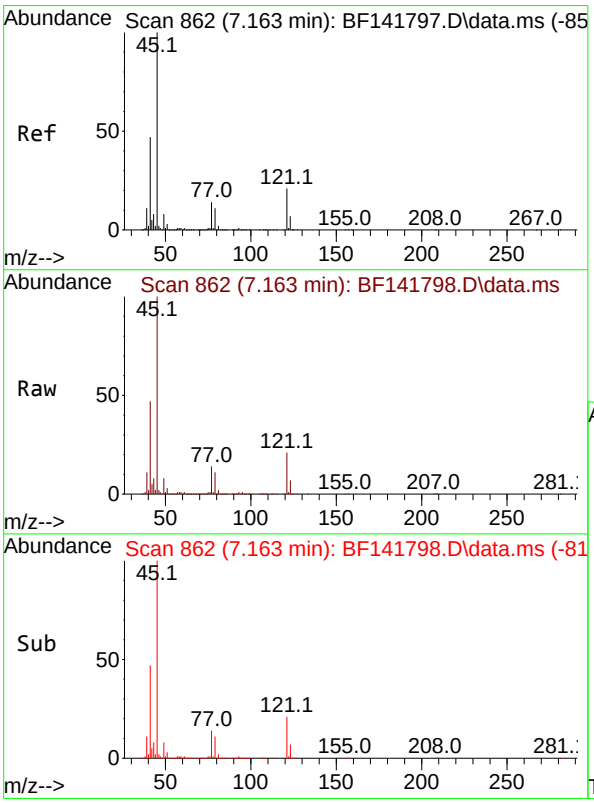
#15
Benzyl Alcohol
Concen: 48.272 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 927459

Ion	Ratio	Lower	Upper
79	100		
108	74.2	60.2	90.2
77	62.6	50.2	75.2

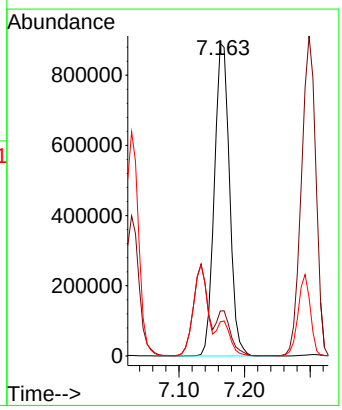


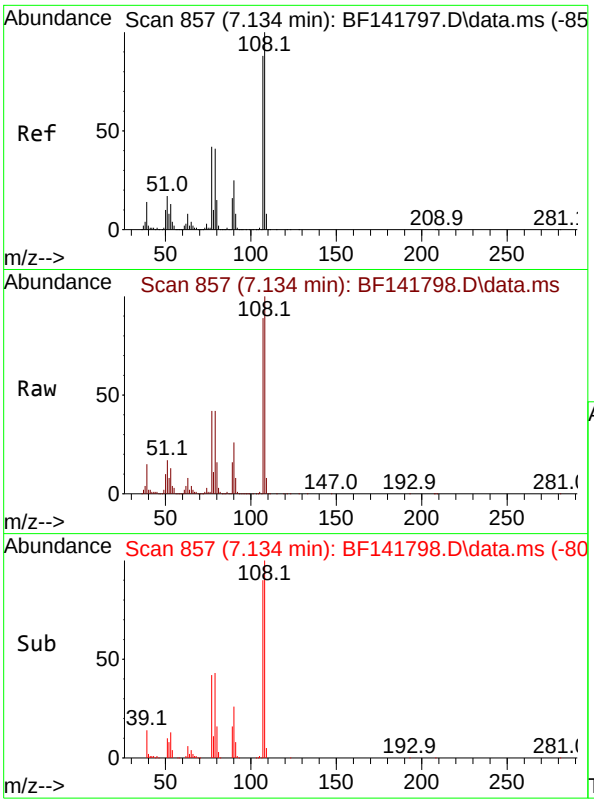


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.854 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 45 Resp: 1423138

Ion	Ratio	Lower	Upper
45	100		
77	14.4	0.0	34.4
79	10.9	0.0	30.9



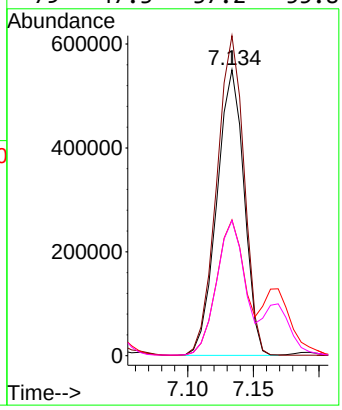


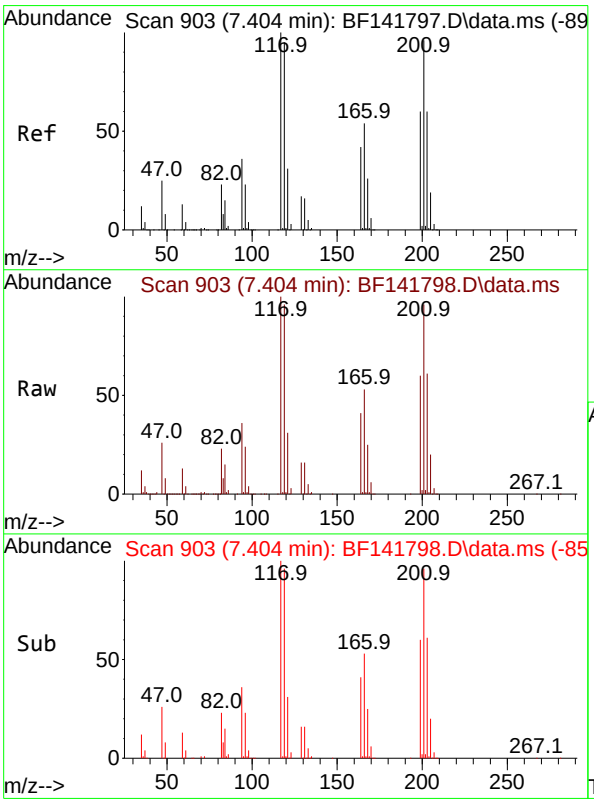
#17
2-Methylphenol
Concen: 48.240 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 795600

Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.6	135.8
77	47.5	37.7	56.5
79	47.3	37.2	55.8

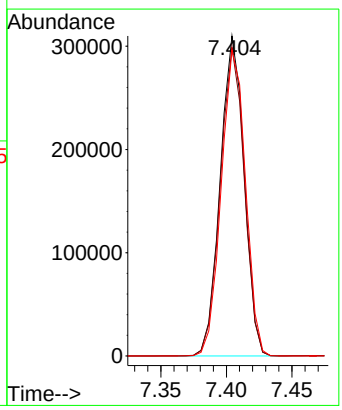


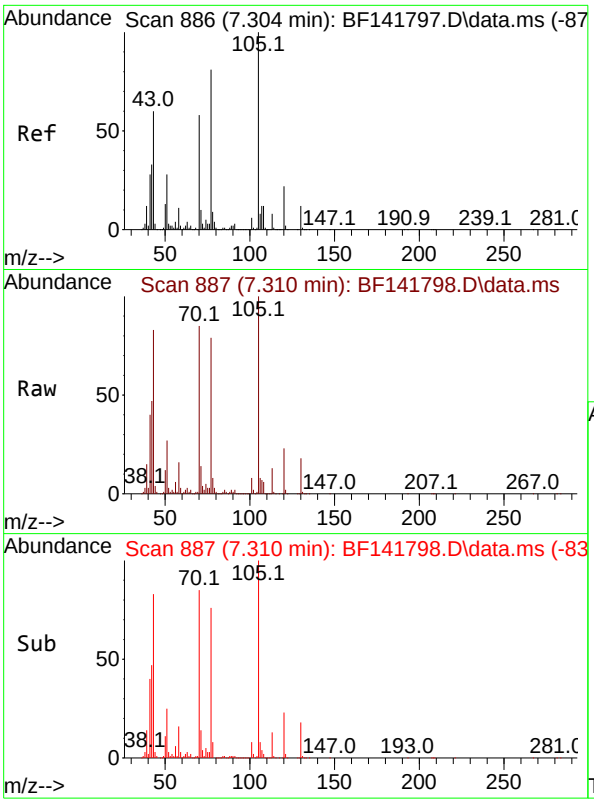


#18
Hexachloroethane
Concen: 48.741 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:117 Resp: 393322

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.8	113.8
201	95.6	76.7	115.1



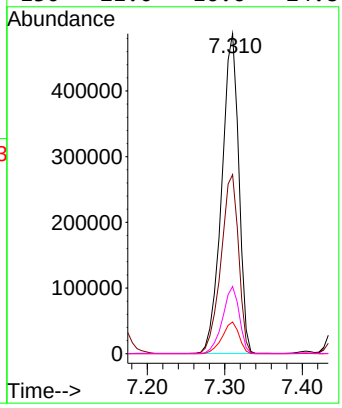


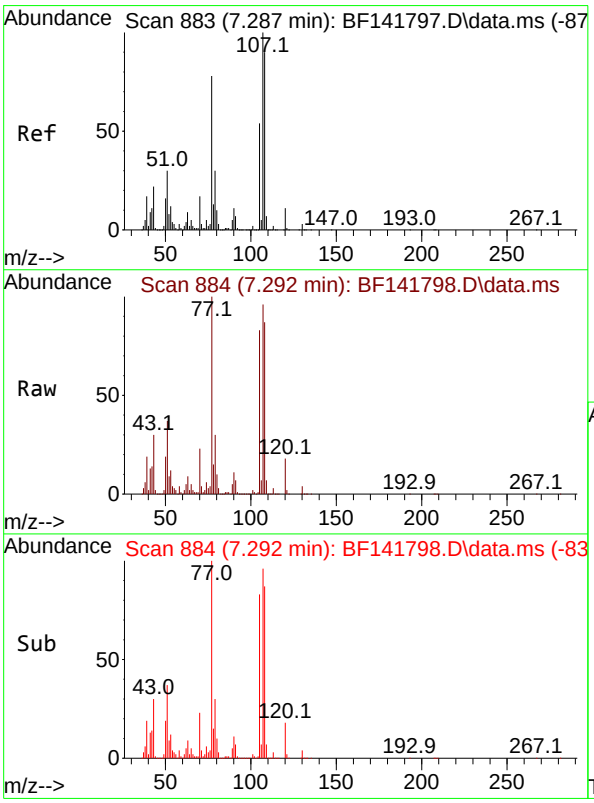
#19
n-Nitroso-di-n-propylamine
Concen: 47.090 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 744192

Ion	Ratio	Lower	Upper
70	100		
42	55.9	45.4	68.0
101	9.9	7.8	11.8
130	21.0	16.6	24.8

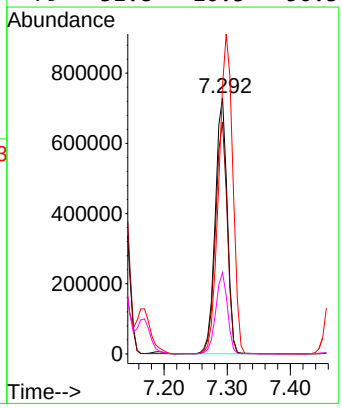


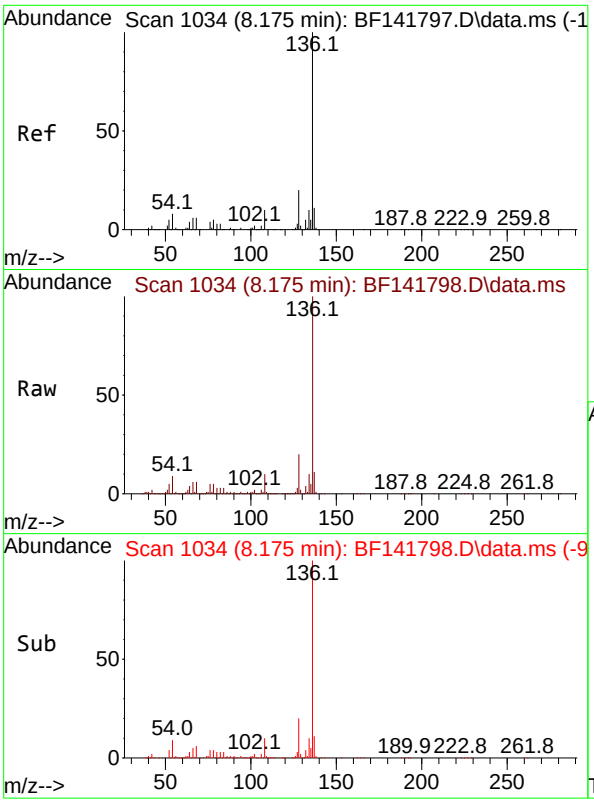


#20
3+4-Methylphenols
Concen: 46.825 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:107 Resp: 961623

Ion	Ratio	Lower	Upper
107	100		
108	90.6	69.7	109.7
77	104.7	58.3	98.3#
79	31.8	10.3	50.3



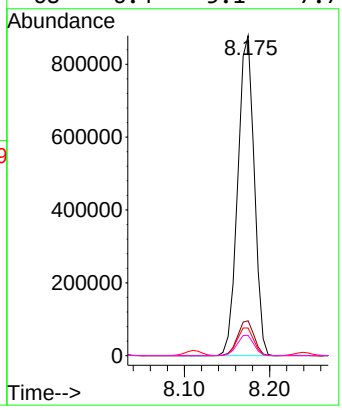


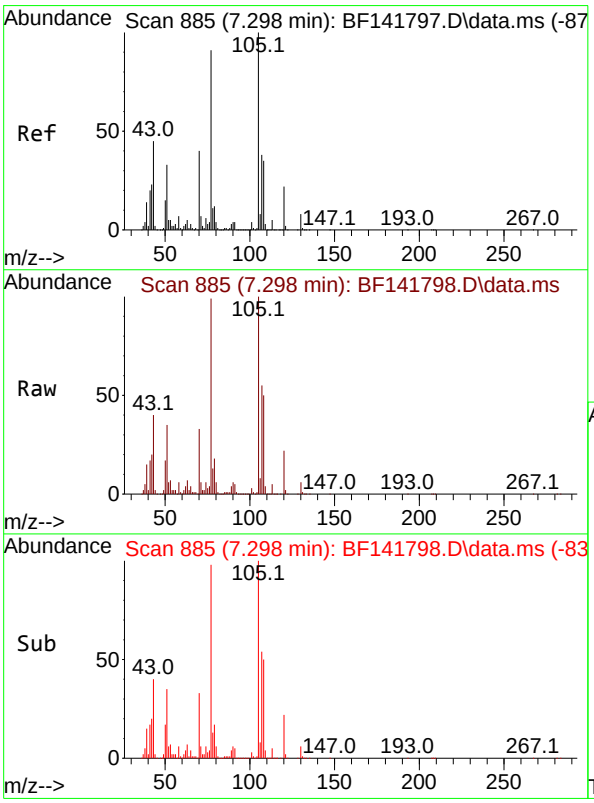
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 1175652

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	8.7	6.9	10.3
68	6.4	5.1	7.7

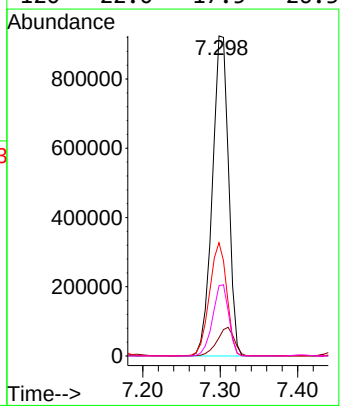


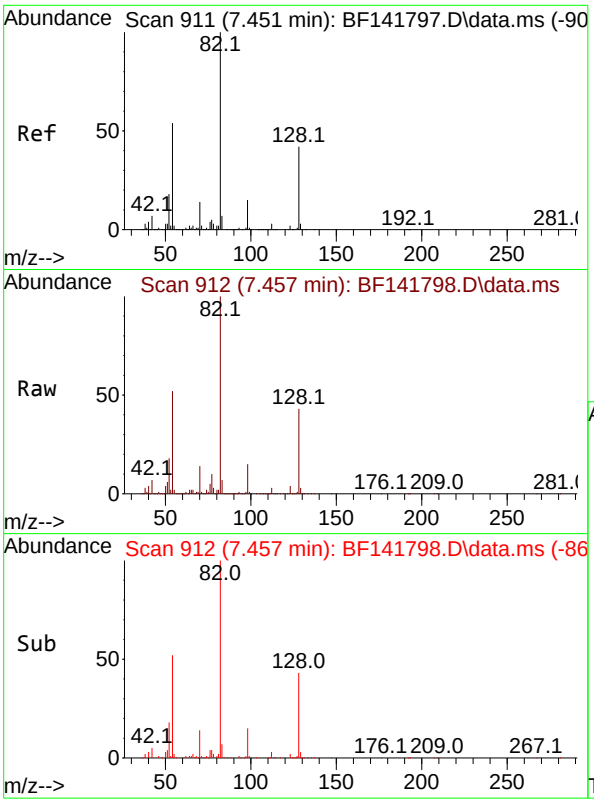


#22
Acetophenone
Concen: 46.798 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:105 Resp: 1339971

Ion	Ratio	Lower	Upper
105	100		
71	5.7	5.4	8.0
51	35.4	26.1	39.1
120	22.0	17.5	26.3



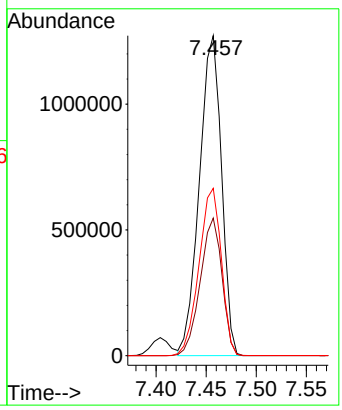


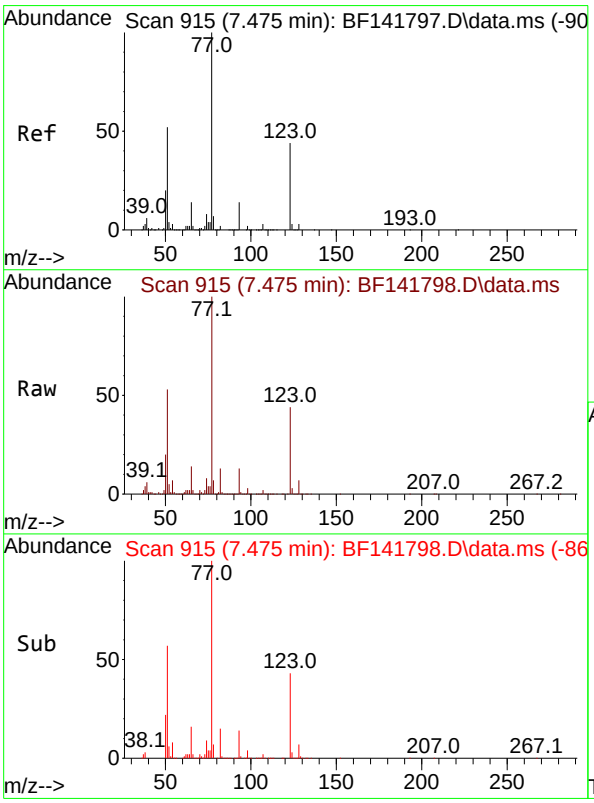
#23
Nitrobenzene-d5
Concen: 106.234 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1953916

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.5	50.3
54	52.3	42.7	64.1

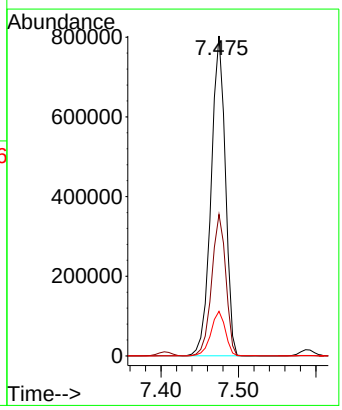


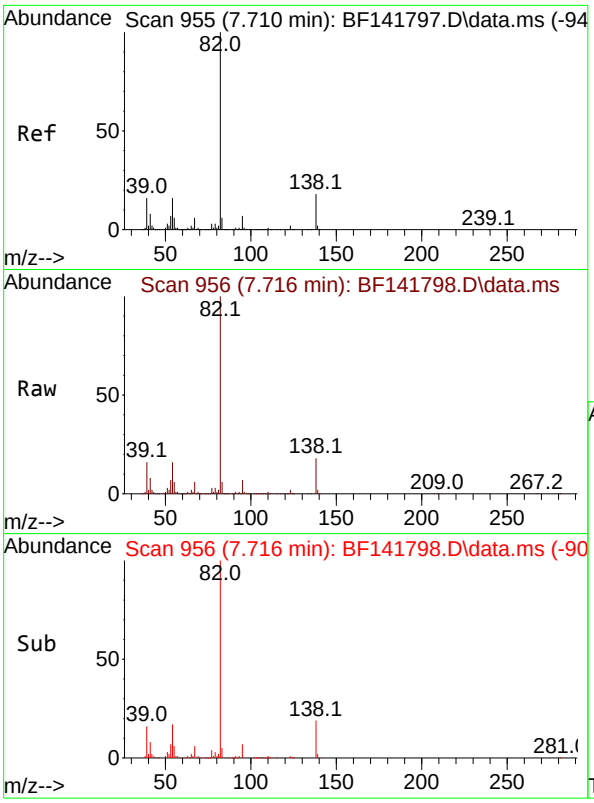


#24
Nitrobenzene
Concen: 52.073 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 77 Resp: 1025625

Ion	Ratio	Lower	Upper
77	100		
123	44.2	35.8	53.8
65	14.0	11.2	16.8



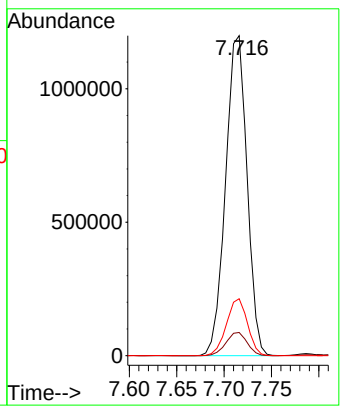


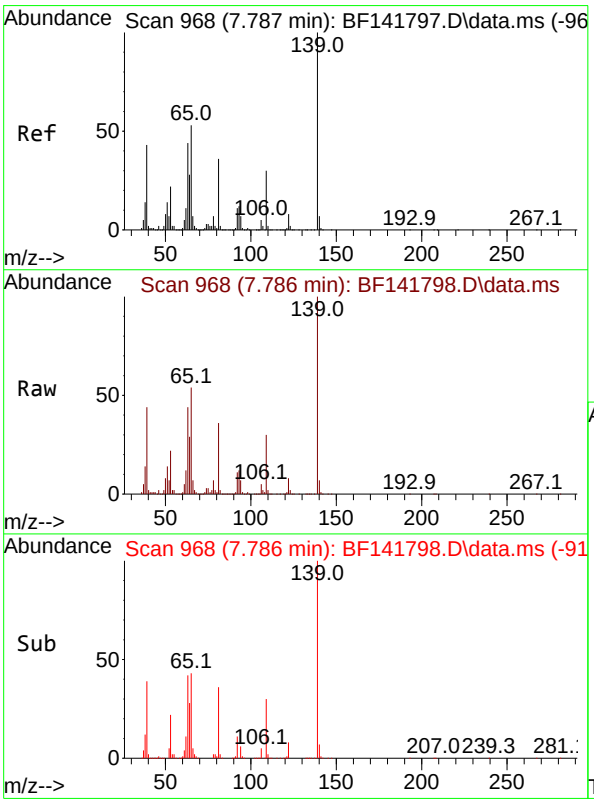
#25
Isophorone
Concen: 47.744 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1886546

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.8	14.0	21.0

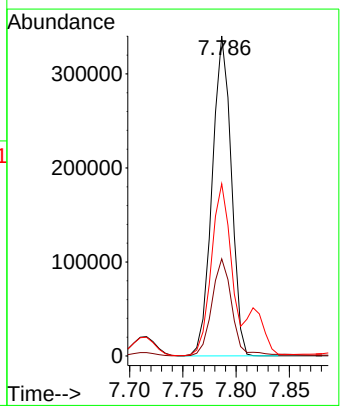


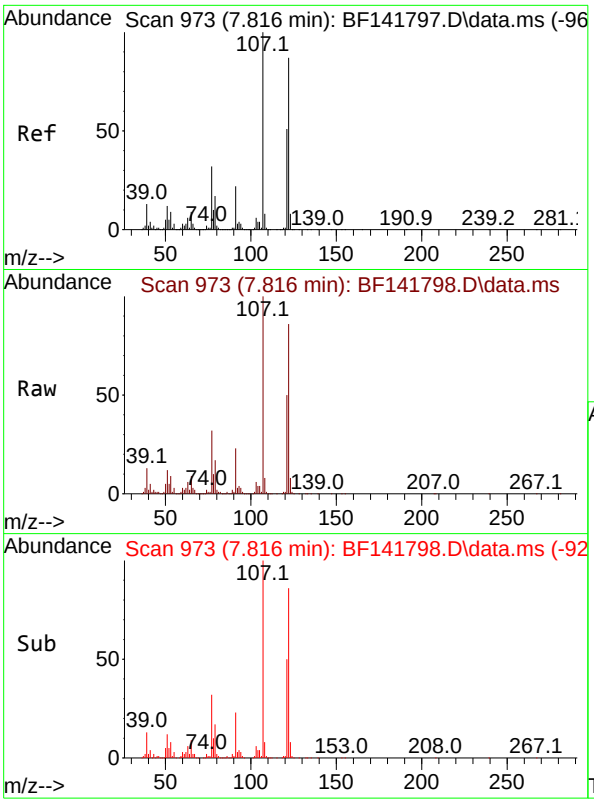


#26
2-Nitrophenol
Concen: 48.354 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:139 Resp: 425765

Ion	Ratio	Lower	Upper
139	100		
109	30.4	24.1	36.1
65	53.8	42.3	63.5



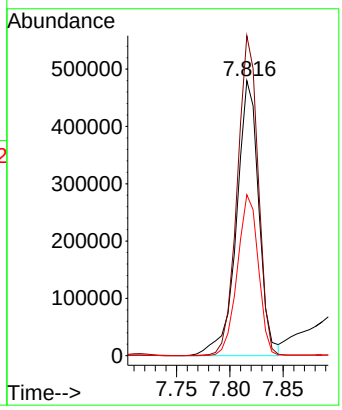


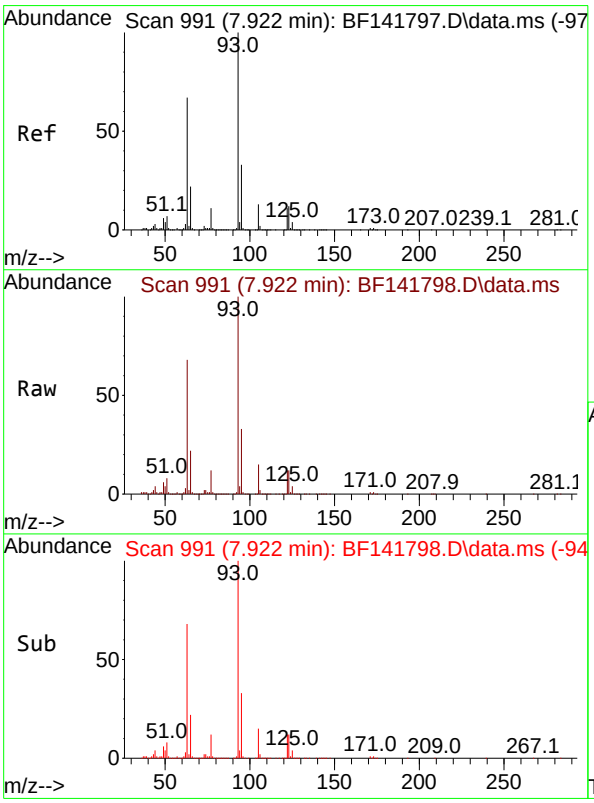
#27
2,4-Dimethylphenol
Concen: 48.082 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 698393

Ion	Ratio	Lower	Upper
122	100		
107	116.4	92.5	138.7
121	58.6	47.1	70.7

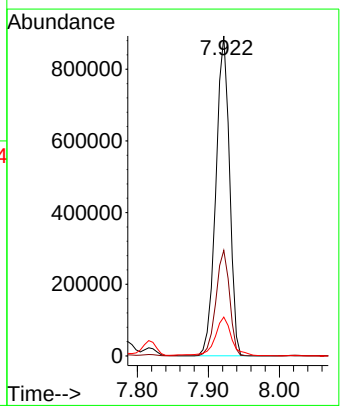


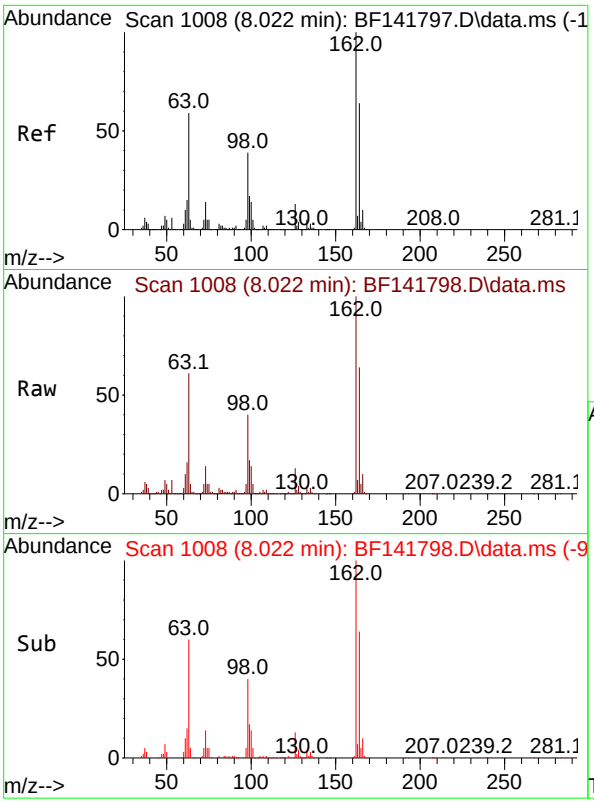


#28
bis(2-Chloroethoxy)methane
Concen: 47.060 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 93 Resp: 1186179

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.2	10.0	15.0



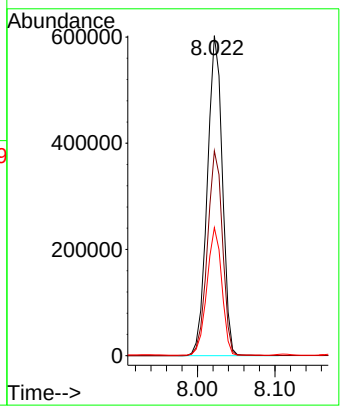


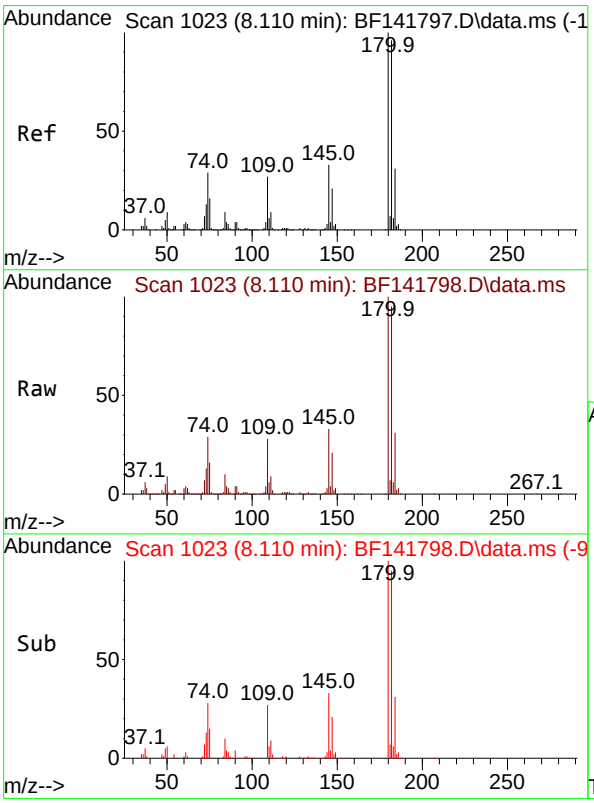
#29
2,4-Dichlorophenol
Concen: 48.527 ng
RT: 8.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 813150

Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.3	84.3
98	40.0	19.6	59.6

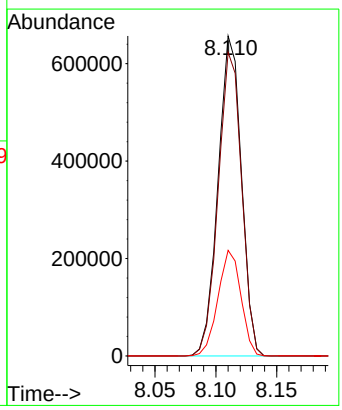


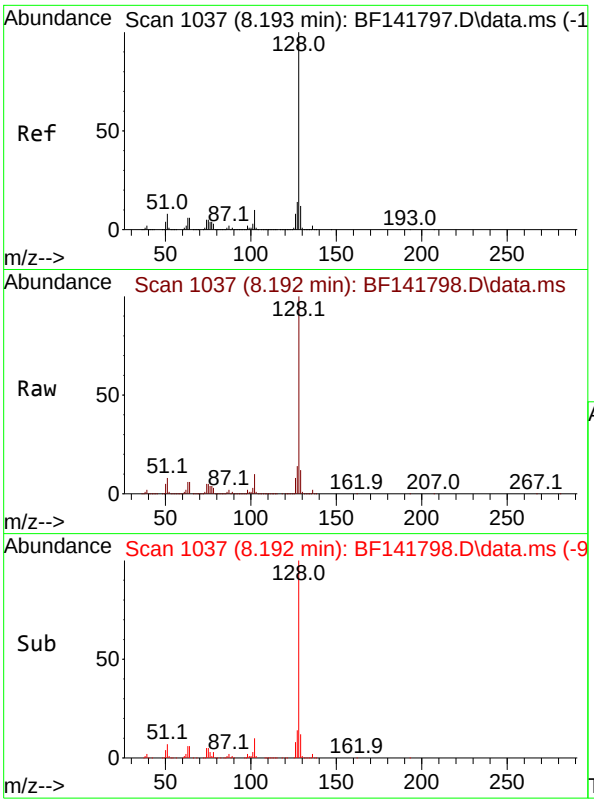


#30
1,2,4-Trichlorobenzene
Concen: 47.693 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:180 Resp: 875703

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.8	115.2
145	33.0	26.4	39.6



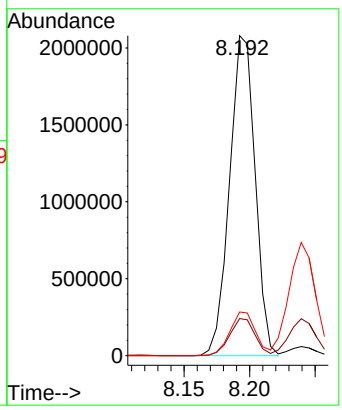


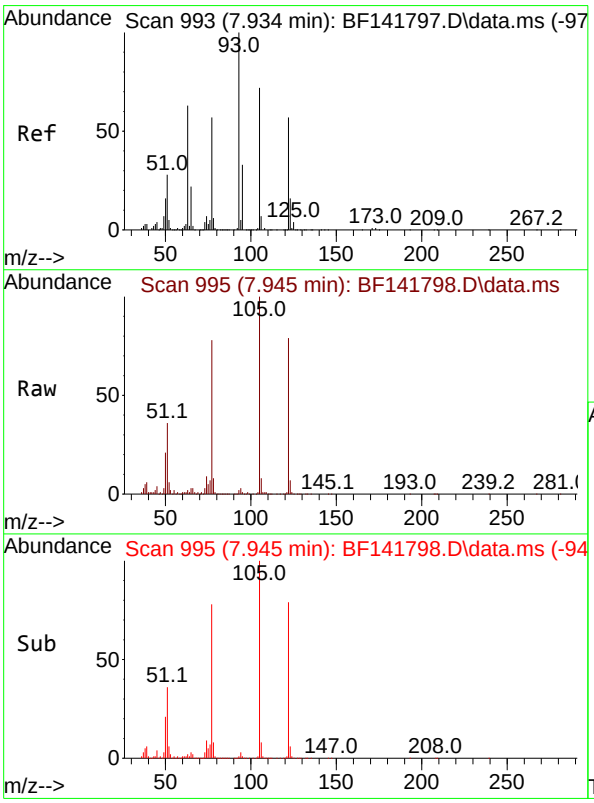
#31
Naphthalene
Concen: 46.685 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 2820879

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.2	13.8
127	13.7	11.0	16.4

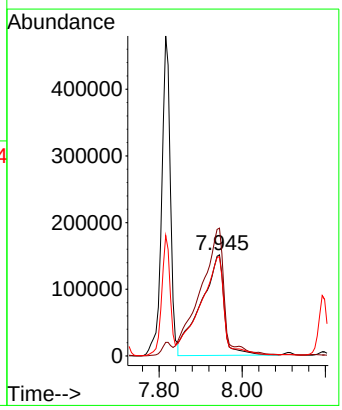


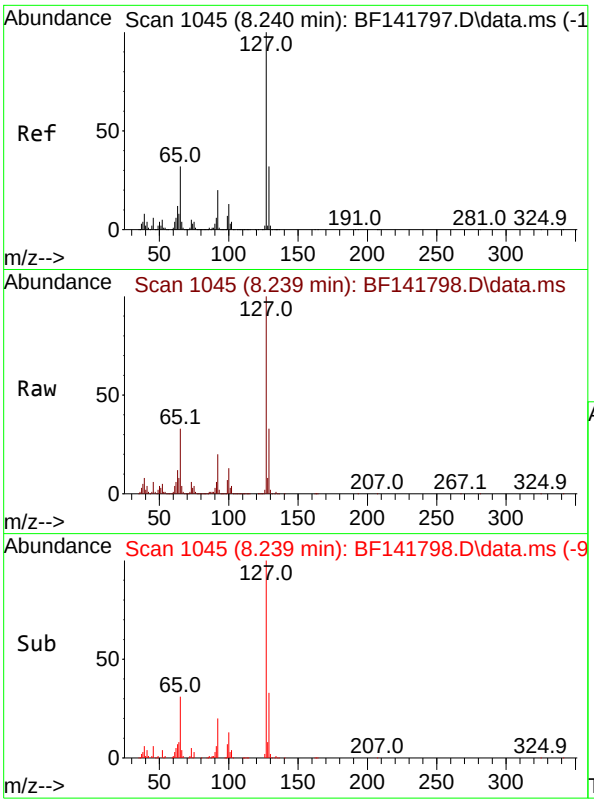


#32
Benzoic acid
Concen: 48.392 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.011 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:122 Resp: 587574

Ion	Ratio	Lower	Upper
122	100		
105	126.4	105.8	145.8
77	98.1	79.9	119.9



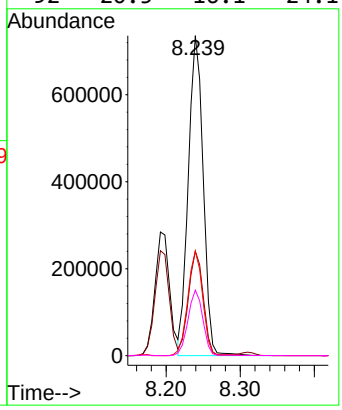


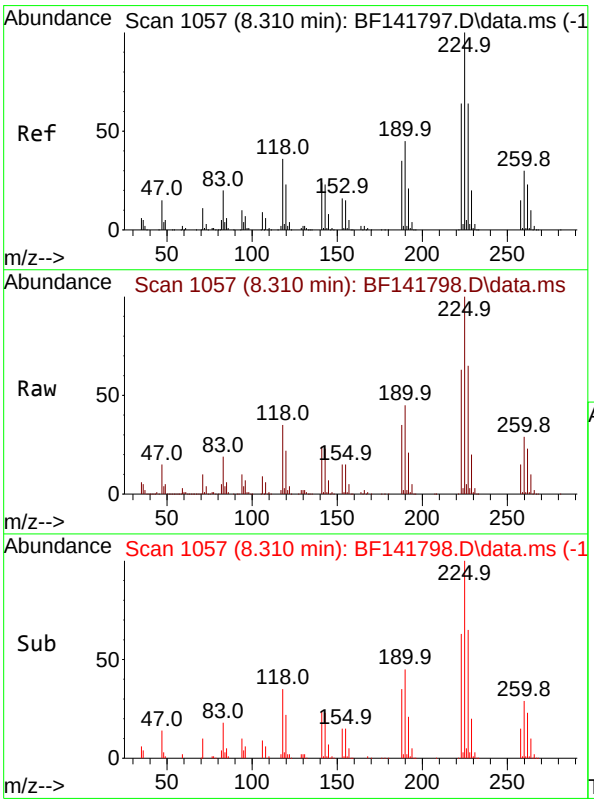
#33
4-Chloroaniline
Concen: 46.432 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 1028715

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.7	25.7	38.5
92	20.5	16.1	24.1

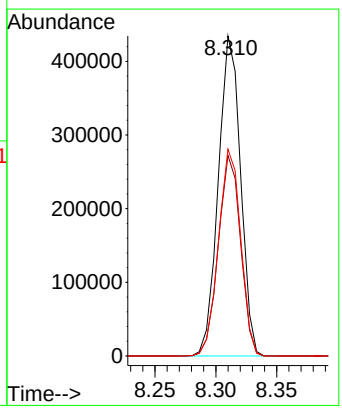


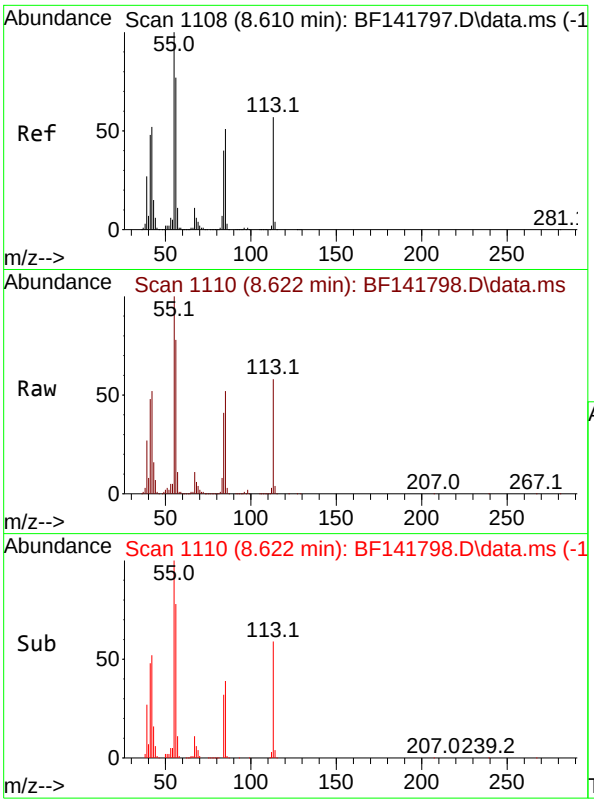


#34
Hexachlorobutadiene
Concen: 48.351 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:225 Resp: 551683

Ion	Ratio	Lower	Upper
225	100		
223	62.7	51.4	77.2
227	64.6	51.6	77.4



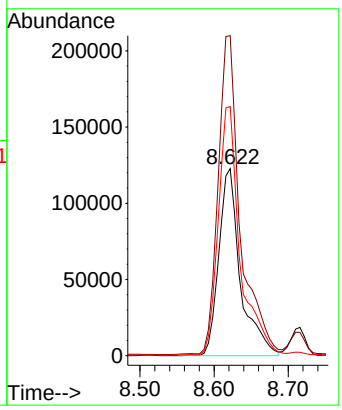


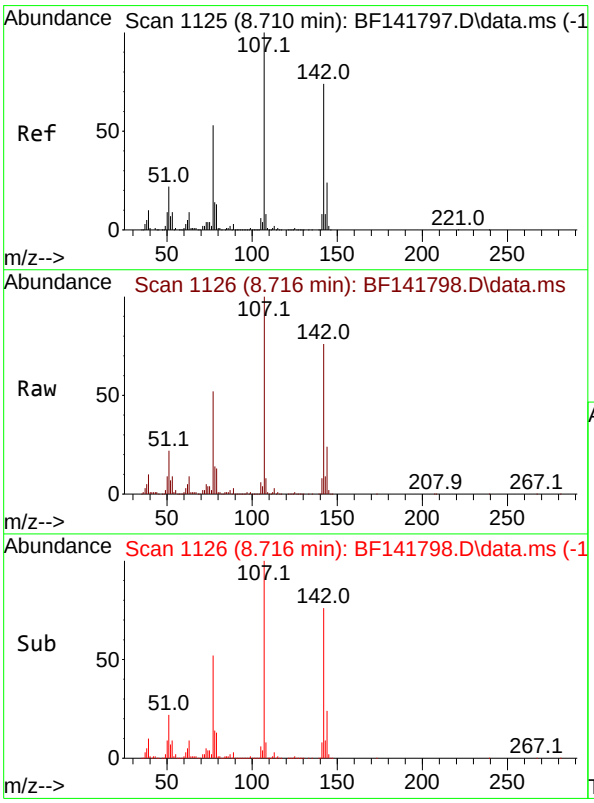
#35
Caprolactam
Concen: 48.241 ng
RT: 8.622 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 248725

Ion	Ratio	Lower	Upper
113	100		
55	171.1	155.6	195.6
56	133.2	114.6	154.6

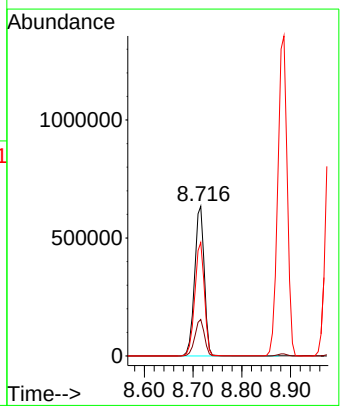


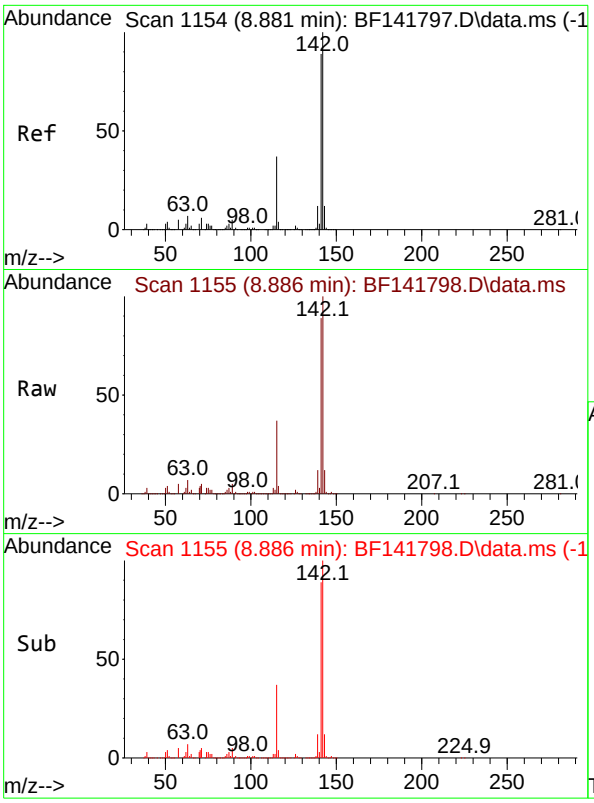


#36
4-Chloro-3-methylphenol
Concen: 47.314 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:107 Resp: 880725

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.4	29.0
142	75.8	59.4	89.0



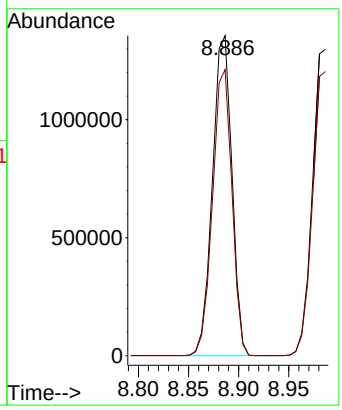


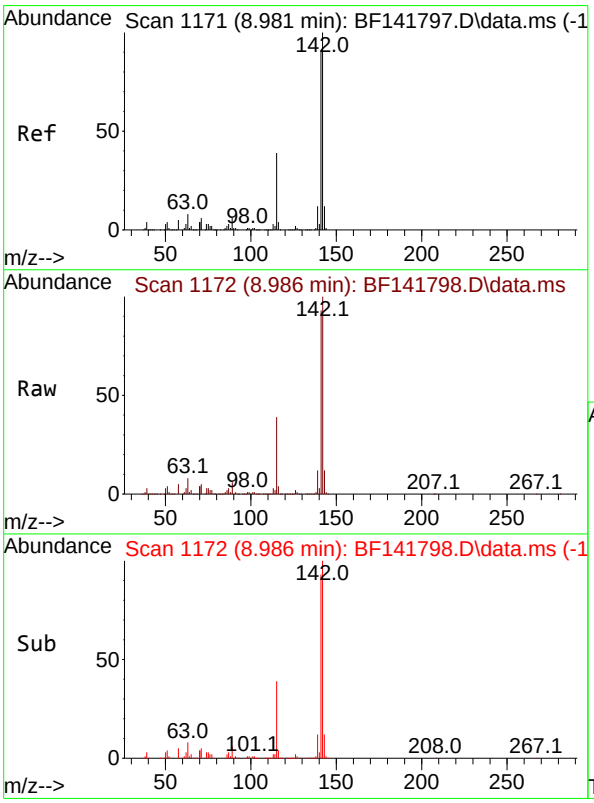
#37
2-Methylnaphthalene
Concen: 46.064 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1825639

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7

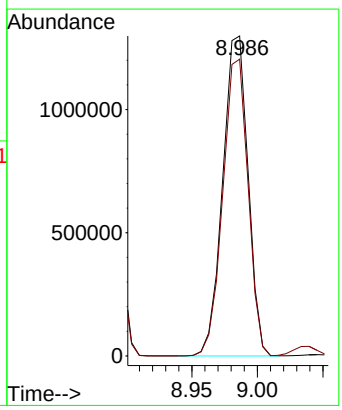


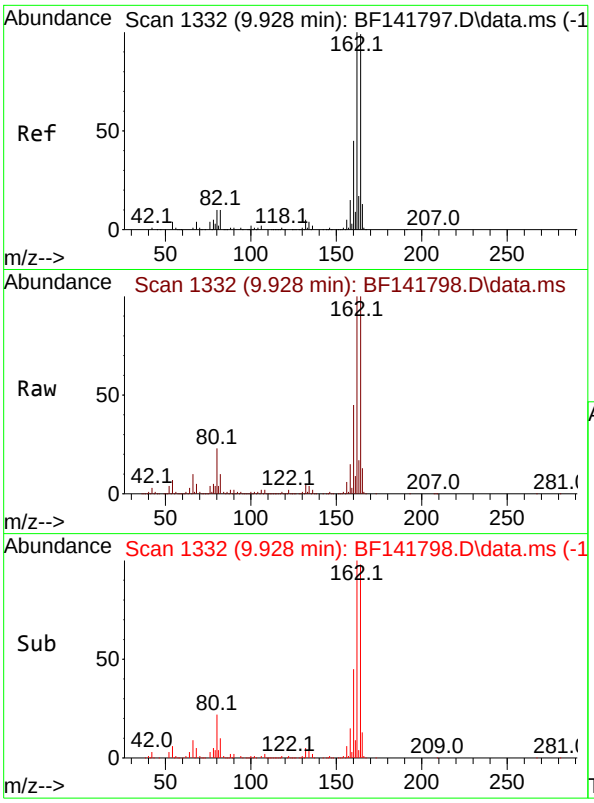


#38
1-Methylnaphthalene
Concen: 45.899 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:142 Resp: 1745465

Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.1	109.7



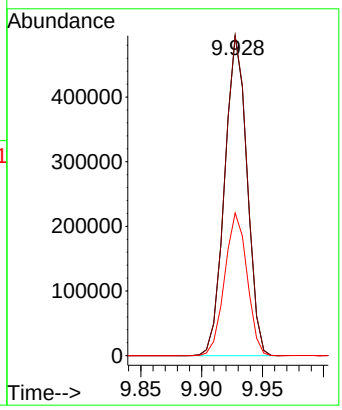


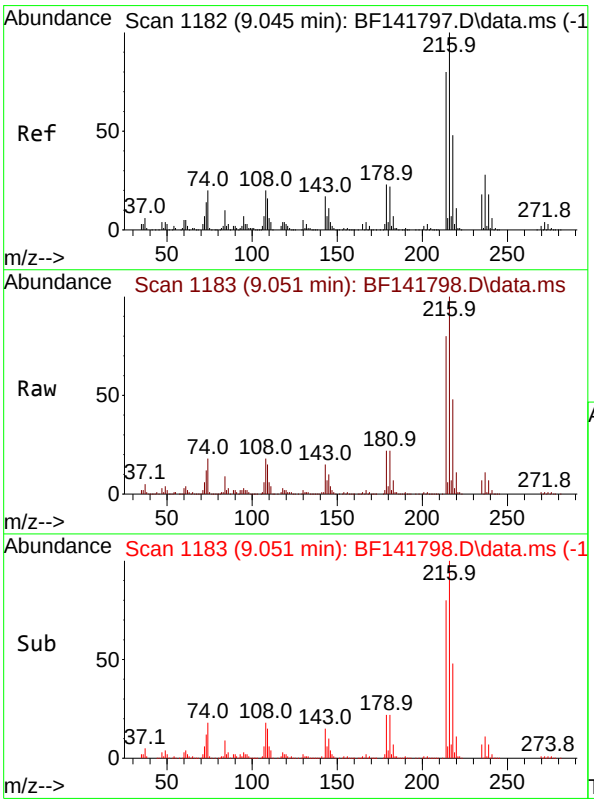
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 632437

Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.6	120.8
160	44.7	36.3	54.5

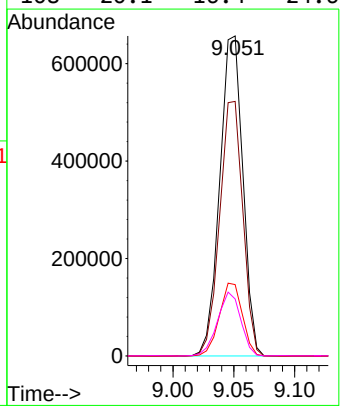


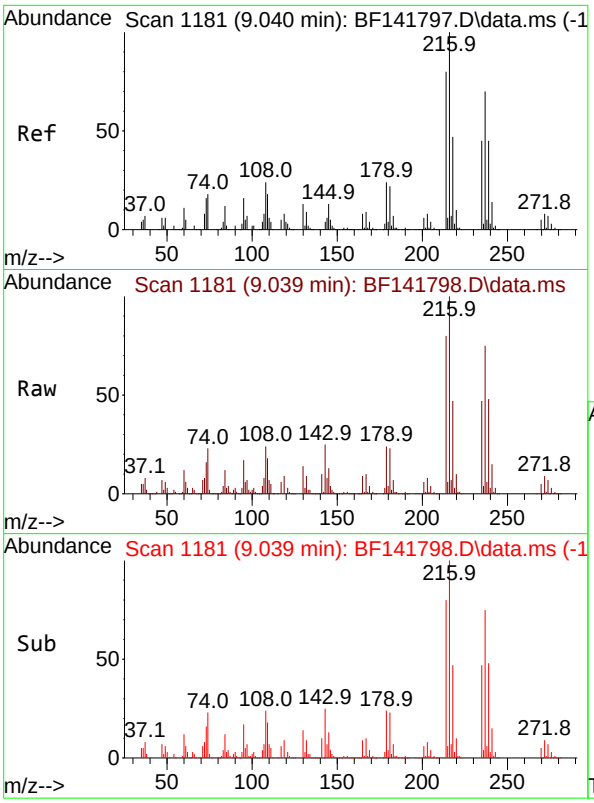


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.555 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:216 Resp: 868619

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.5	95.3
179	22.6	18.1	27.1
108	20.1	16.4	24.6



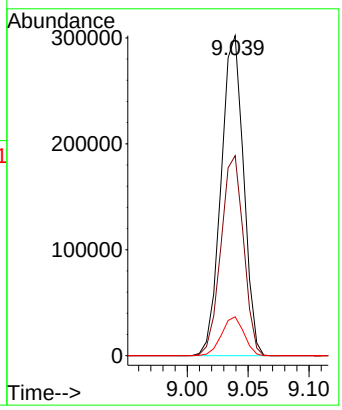


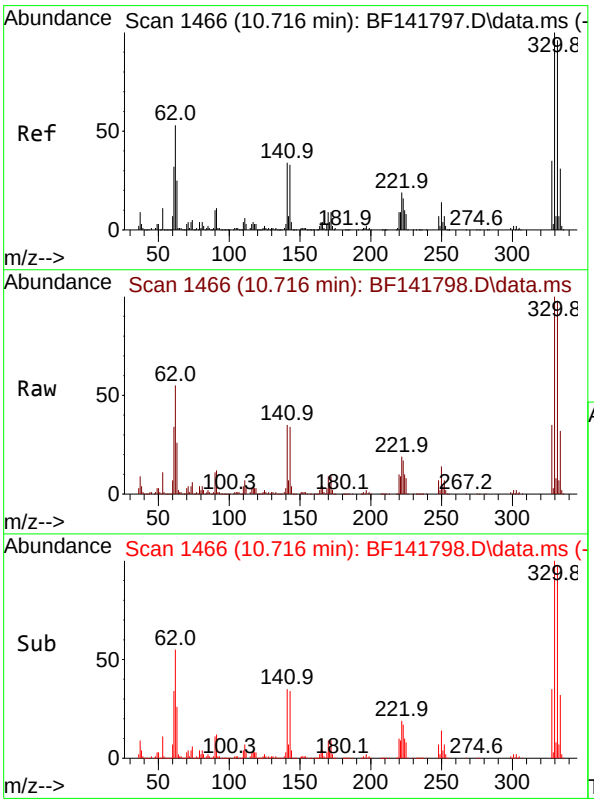
#41
Hexachlorocyclopentadiene
Concen: 50.930 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 388222

Ion	Ratio	Lower	Upper
237	100		
235	62.5	43.3	83.3
272	12.2	0.0	31.9

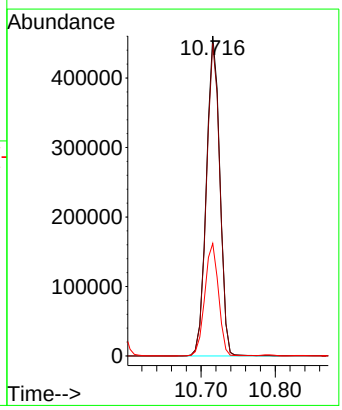


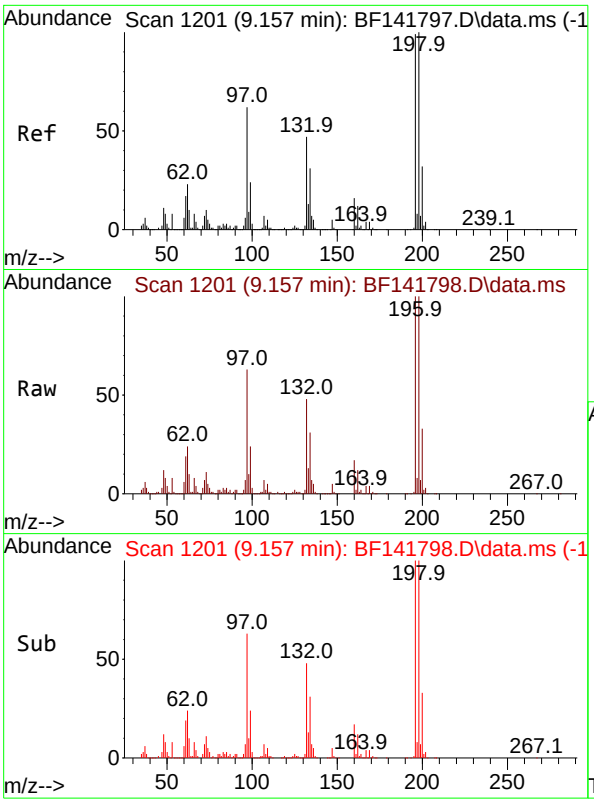


#42
2,4,6-Tribromophenol
Concen: 97.701 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:330 Resp: 580093

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.6	115.0
141	35.8	29.0	43.4



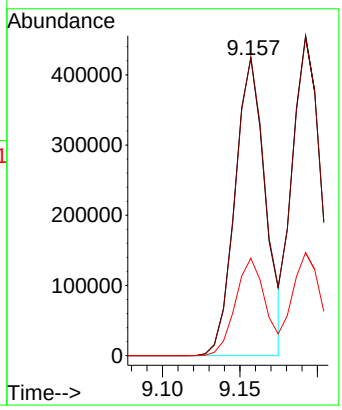


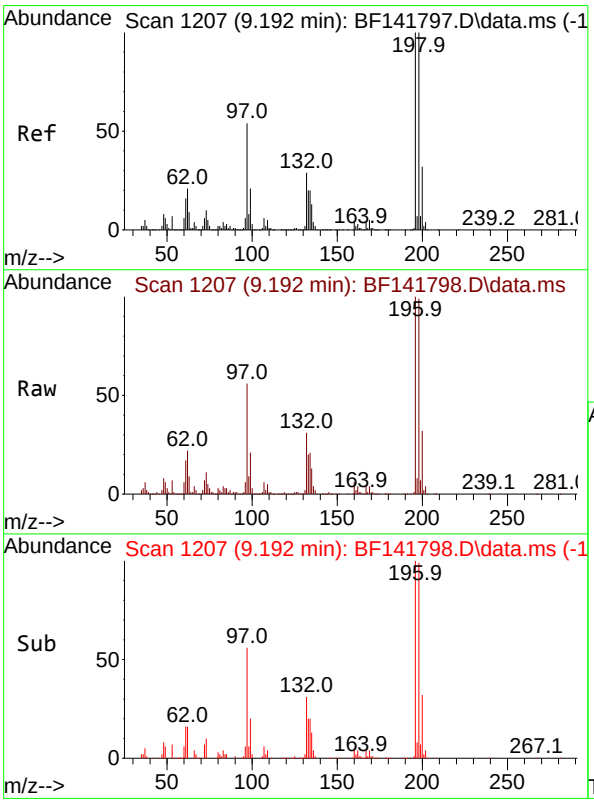
#43
2,4,6-Trichlorophenol
Concen: 49.010 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 578263

Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.4	120.6
200	32.7	25.7	38.5

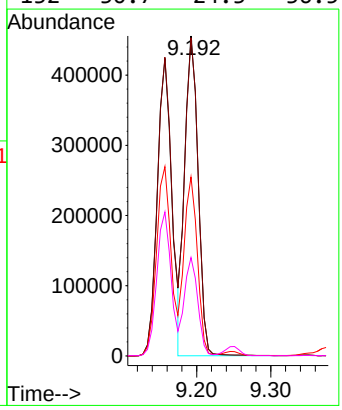


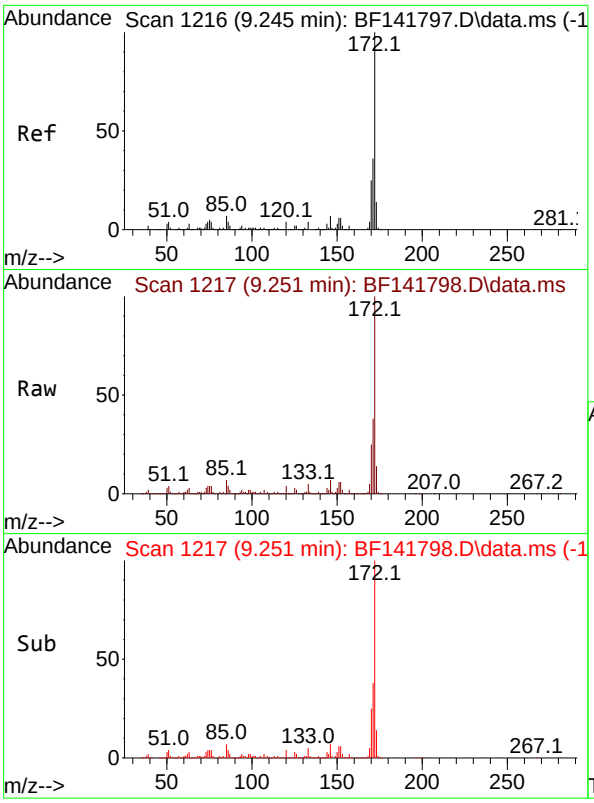


#44
2,4,5-Trichlorophenol
Concen: 49.213 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:196 Resp: 574978

Ion	Ratio	Lower	Upper
196	100		
198	99.5	79.7	119.5
97	55.9	44.2	66.2
132	30.7	24.3	36.5



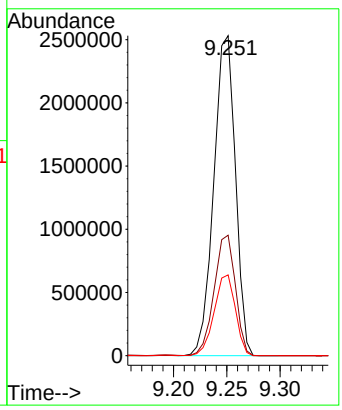


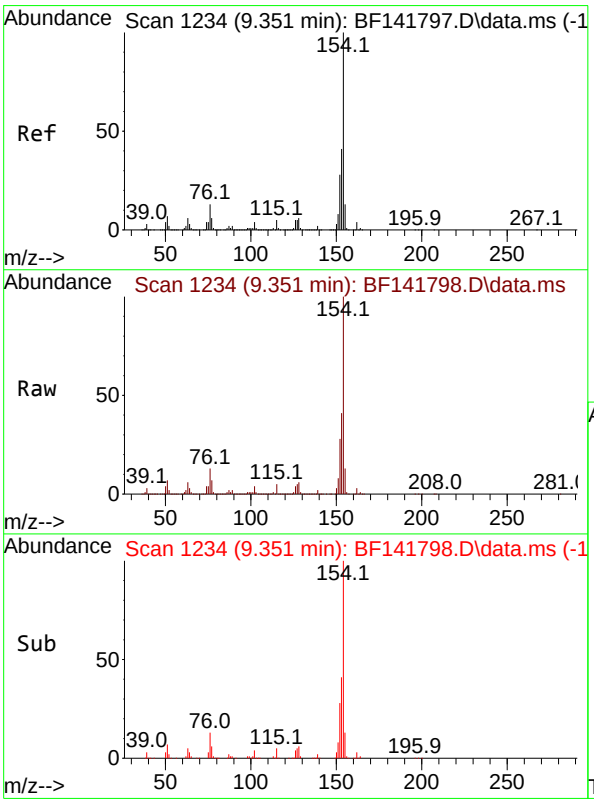
#45
2-Fluorobiphenyl
Concen: 90.435 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 3566962

Ion	Ratio	Lower	Upper
172	100		
171	37.6	29.2	43.8
170	25.2	19.7	29.5

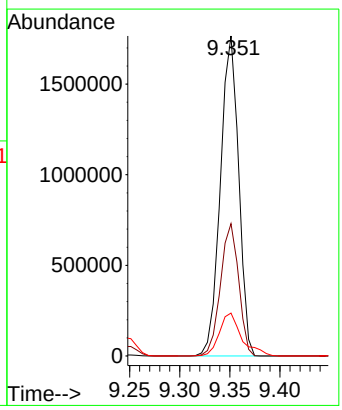


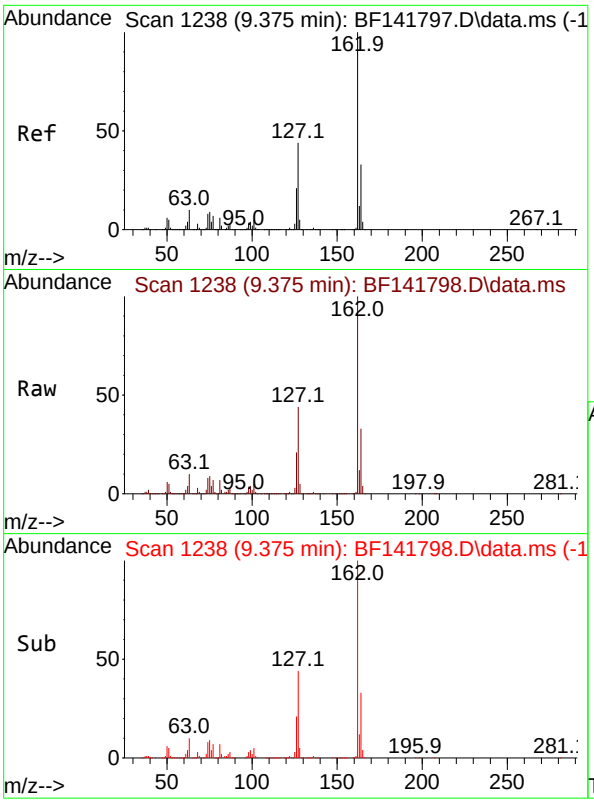


#46
1,1'-Biphenyl
Concen: 46.420 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:154 Resp: 2234592

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	13.4	0.0	33.4



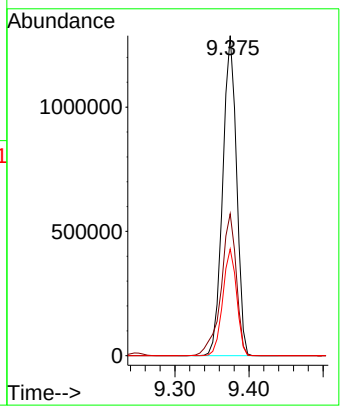


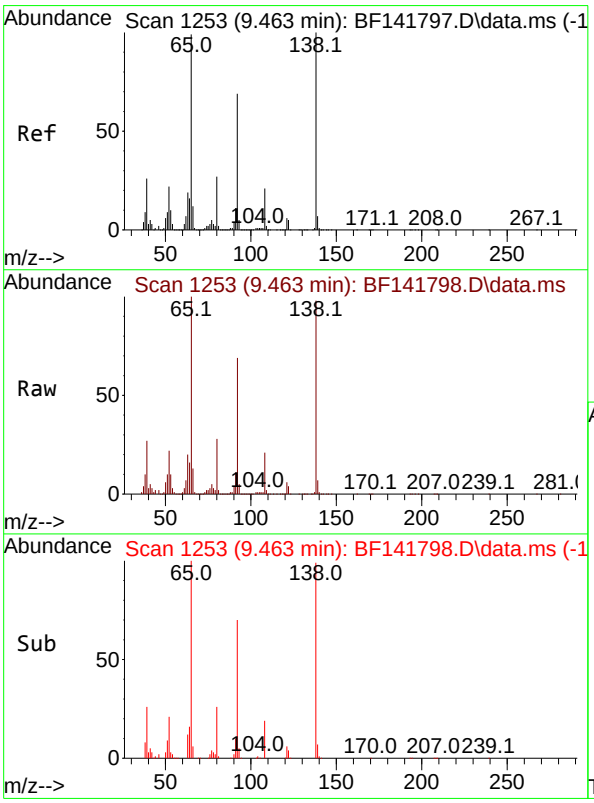
#47
2-Chloronaphthalene
Concen: 47.075 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 1672555

Ion	Ratio	Lower	Upper
162	100		
127	44.4	35.0	52.6
164	33.4	26.6	40.0

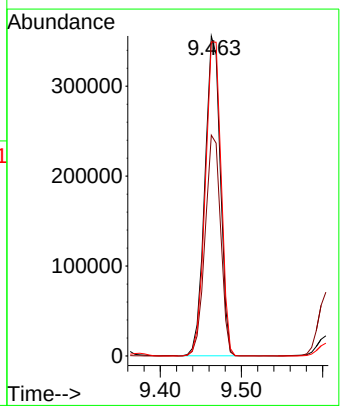


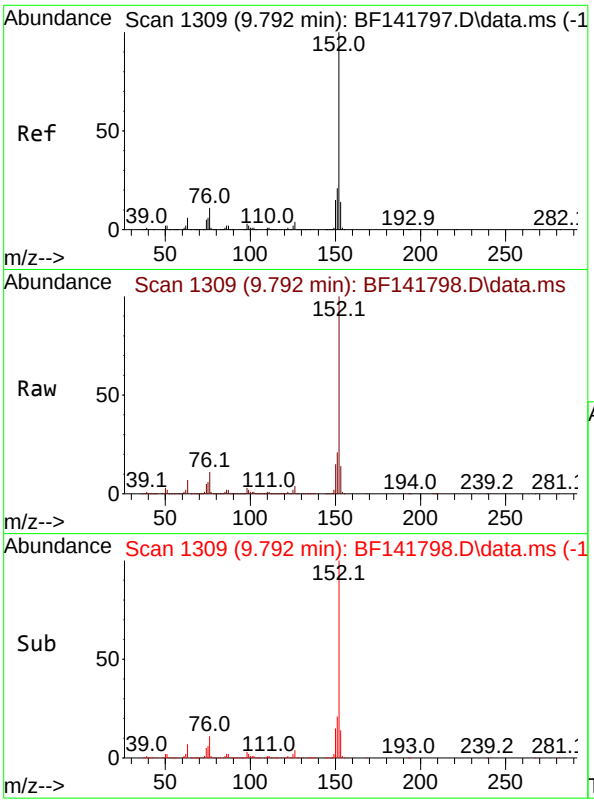


#48
2-Nitroaniline
Concen: 48.211 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion: 65 Resp: 469075

Ion	Ratio	Lower	Upper
65	100		
92	69.0	55.7	83.5
138	98.1	80.6	121.0



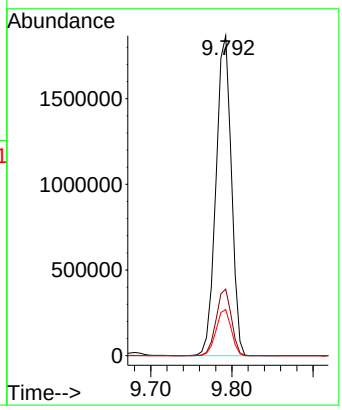


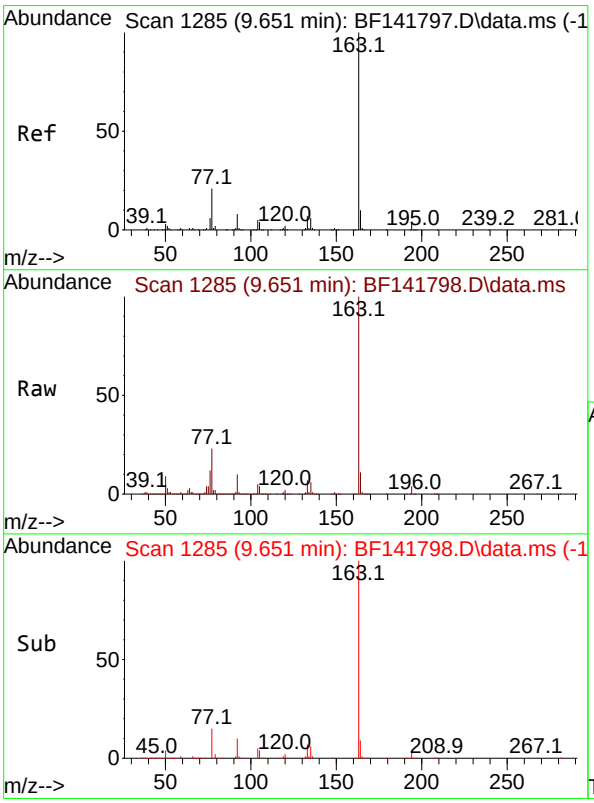
#49
Acenaphthylene
Concen: 46.294 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 2466104

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	24.8
153	14.4	11.2	16.8

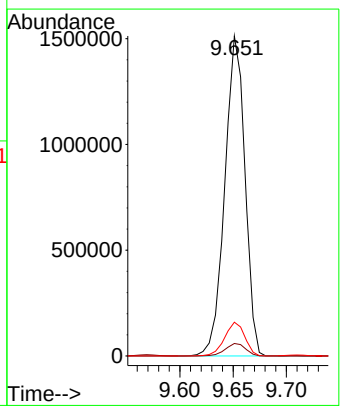


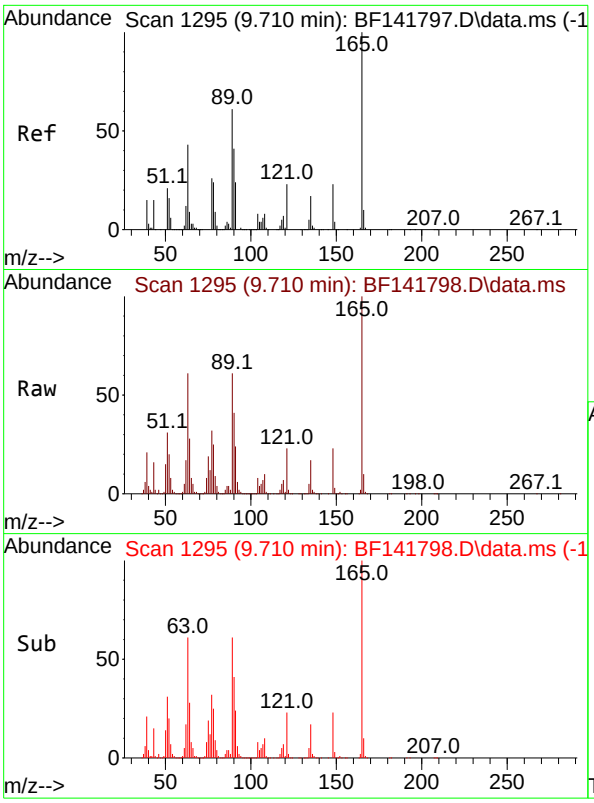


#50
Dimethylphthalate
Concen: 47.103 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:163 Resp: 1994958

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.5	8.4	12.6



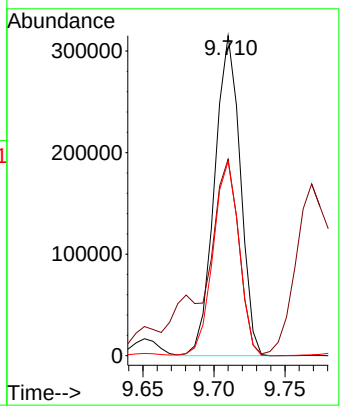


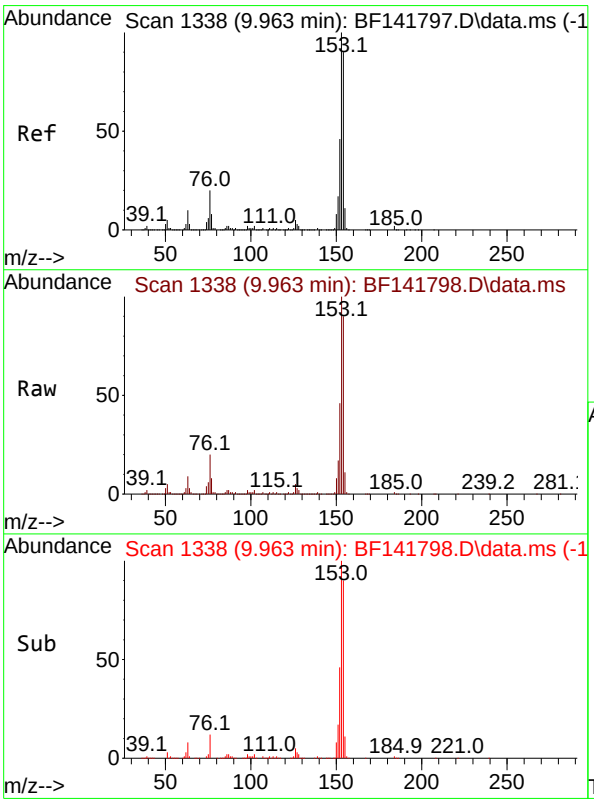
#51
2,6-Dinitrotoluene
Concen: 48.926 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 396873

Ion	Ratio	Lower	Upper
165	100		
63	61.4	49.5	74.3
89	60.8	49.0	73.4

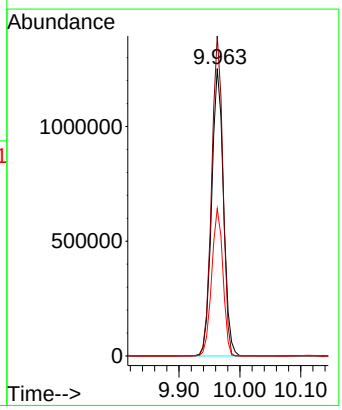


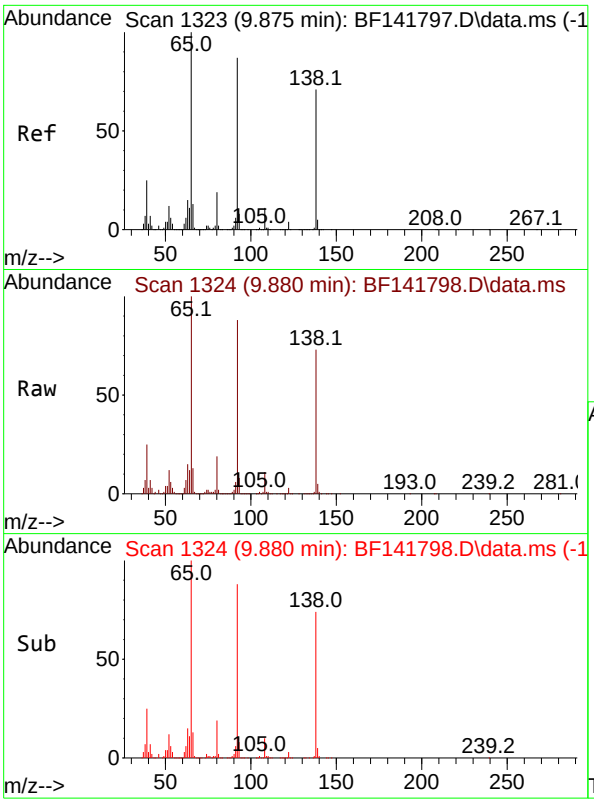


#52
Acenaphthene
Concen: 46.994 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:154 Resp: 1689163

Ion	Ratio	Lower	Upper
154	100		
153	111.4	88.7	133.1
152	51.3	40.9	61.3



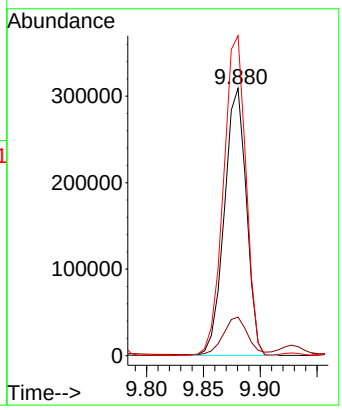


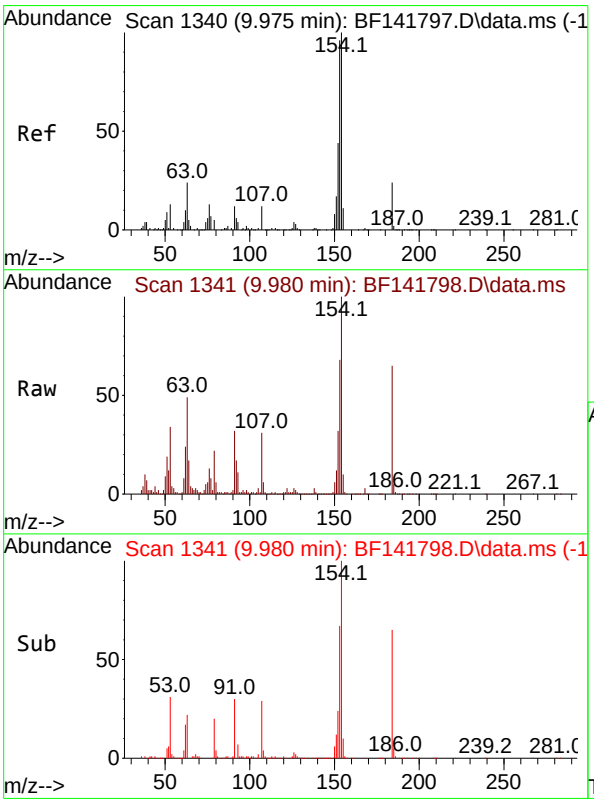
#53
3-Nitroaniline
Concen: 48.300 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 417015

Ion	Ratio	Lower	Upper
138	100		
108	14.5	12.7	19.1
92	119.7	97.9	146.9

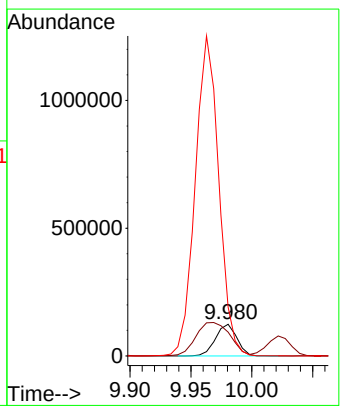


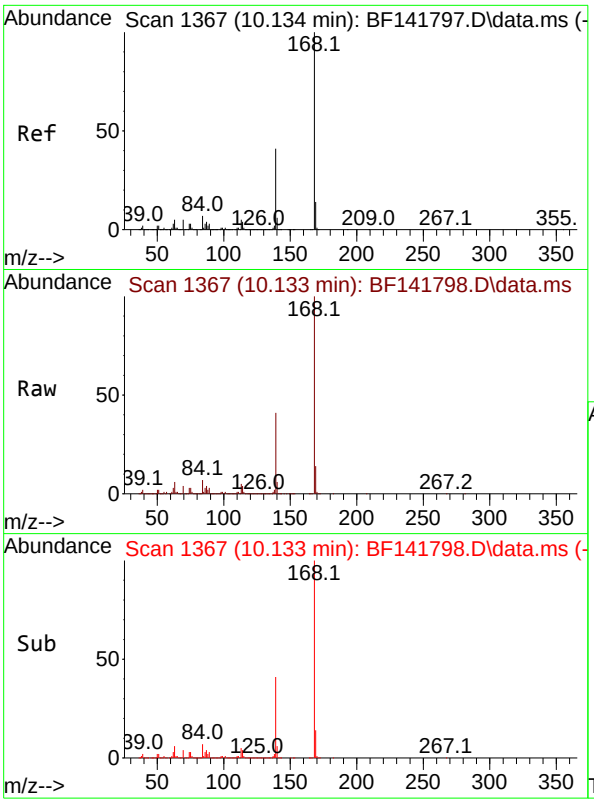


#54
2,4-Dinitrophenol
Concen: 48.388 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:184 Resp: 151706

Ion	Ratio	Lower	Upper
184	100		
63	75.3	79.0	118.6#
154	154.1	335.8	503.8#



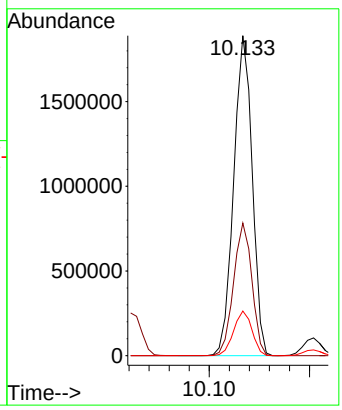


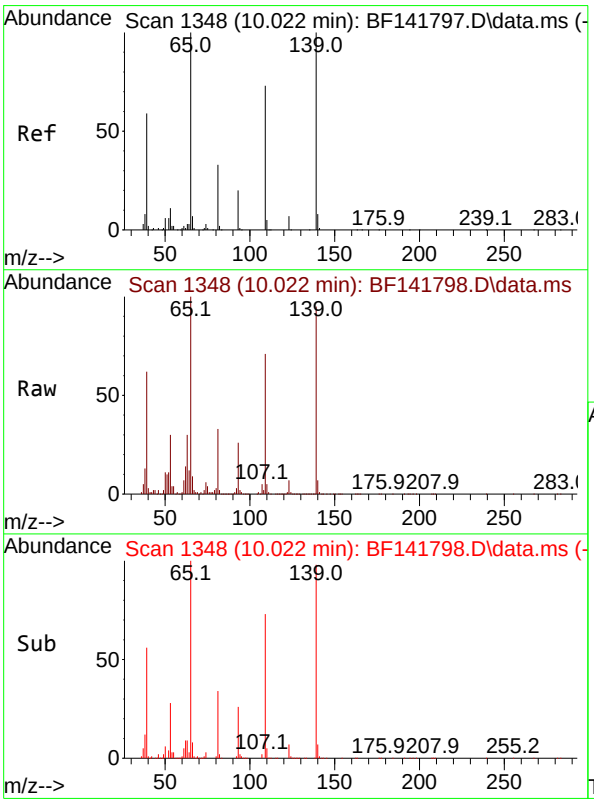
#55
Dibenzofuran
Concen: 46.312 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 2422882

Ion	Ratio	Lower	Upper
168	100		
139	41.4	32.9	49.3
169	14.0	11.1	16.7

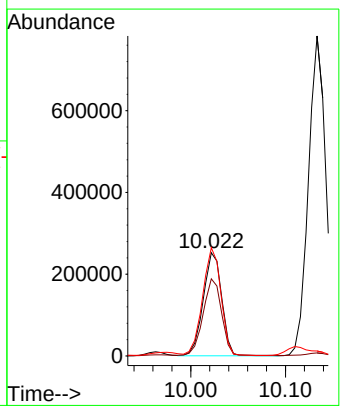


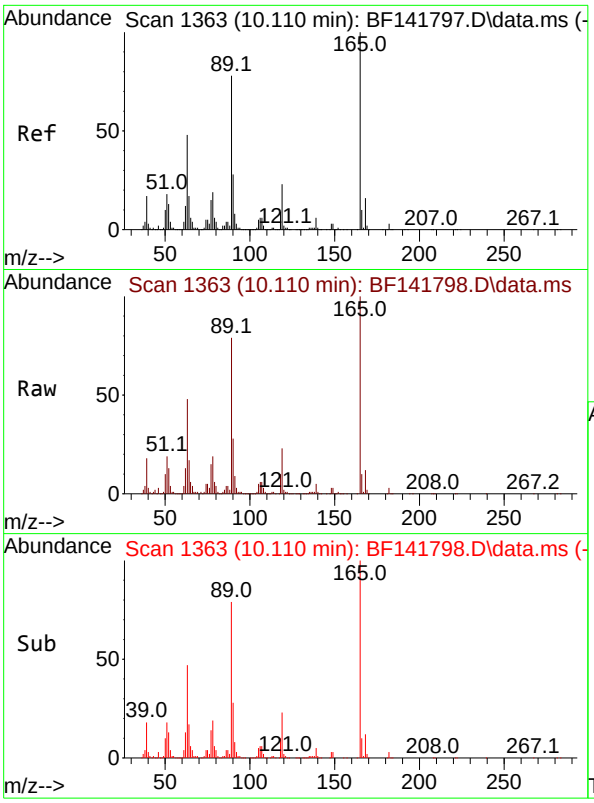


#56
4-Nitrophenol
Concen: 54.357 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:139 Resp: 340020

Ion	Ratio	Lower	Upper
139	100		
109	74.7	53.4	93.4
65	104.9	82.1	122.1



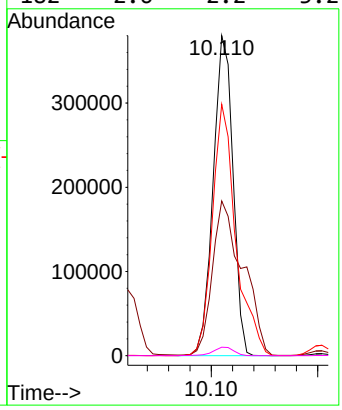


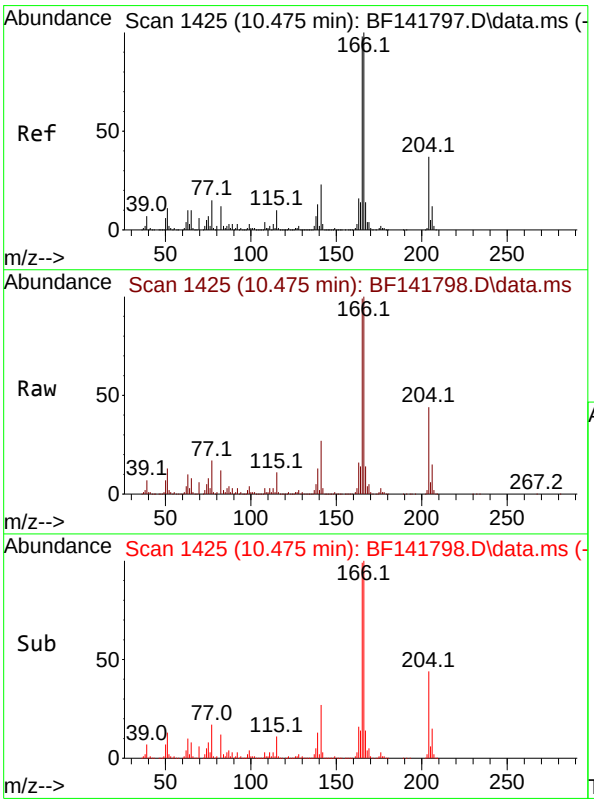
#57
2,4-Dinitrotoluene
Concen: 49.405 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 490028

Ion	Ratio	Lower	Upper
165	100		
63	48.4	38.8	58.2
89	78.6	62.6	94.0
182	2.6	2.2	3.2

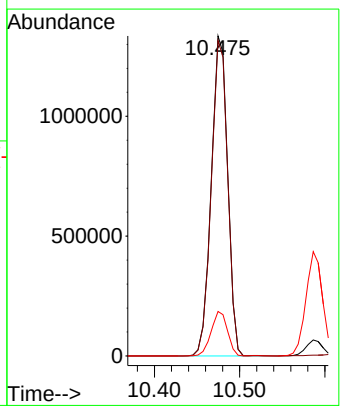


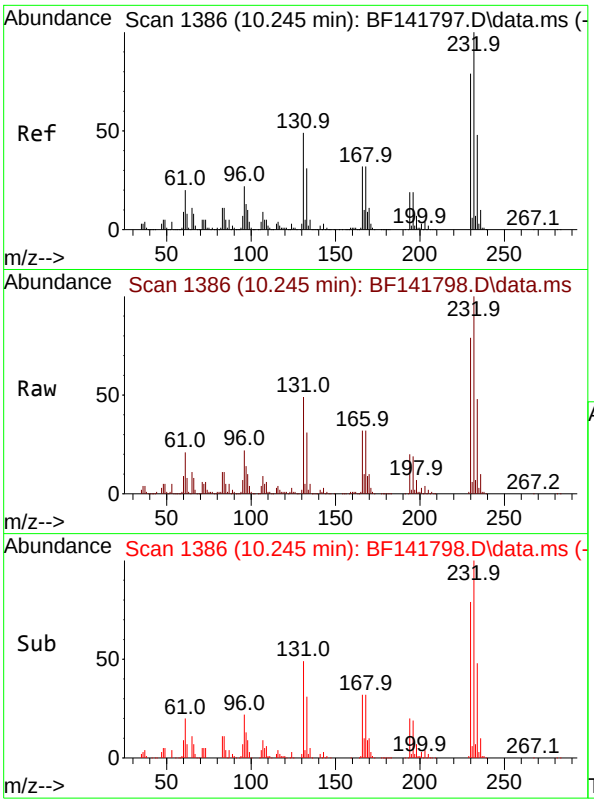


#58
Fluorene
Concen: 45.518 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:166 Resp: 1783757

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.6	117.8
167	13.9	11.0	16.4



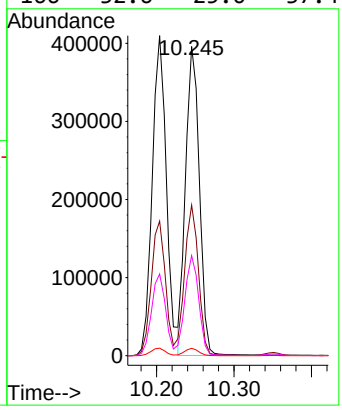


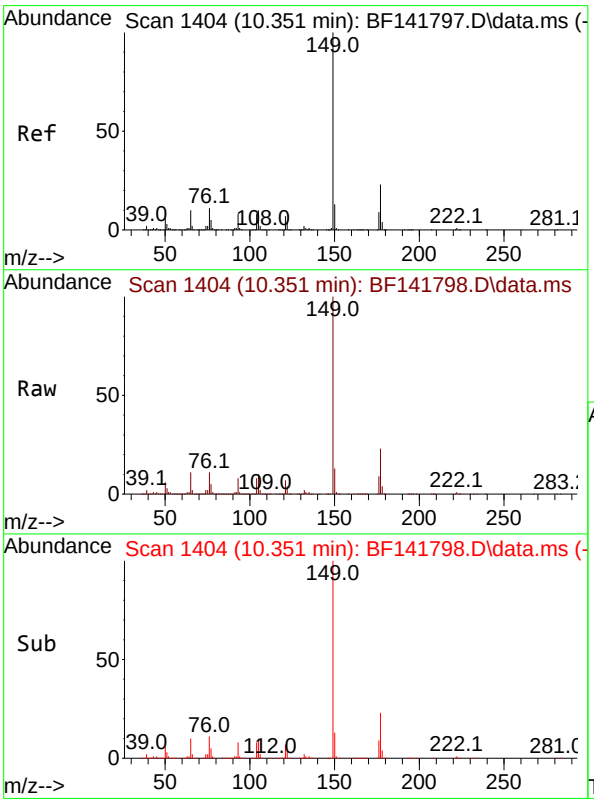
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.140 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 489160

Ion	Ratio	Lower	Upper
232	100		
131	49.4	37.8	56.8
130	2.4	2.0	3.0
166	32.6	25.0	37.4

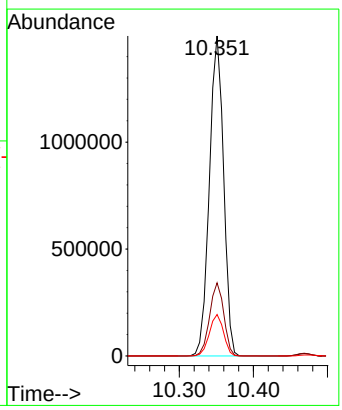


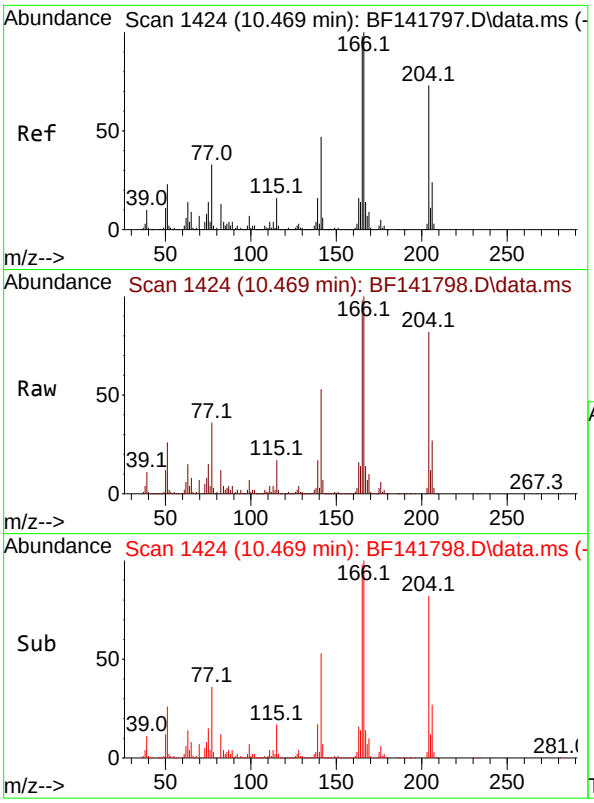


#60
Diethylphthalate
Concen: 46.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 1991111

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.3	27.5
150	12.9	10.3	15.5



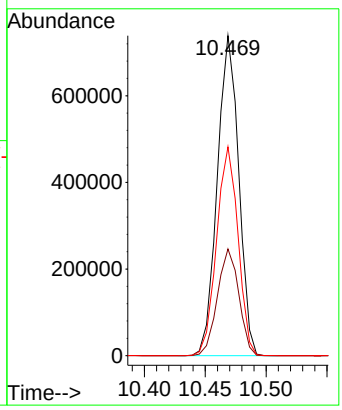


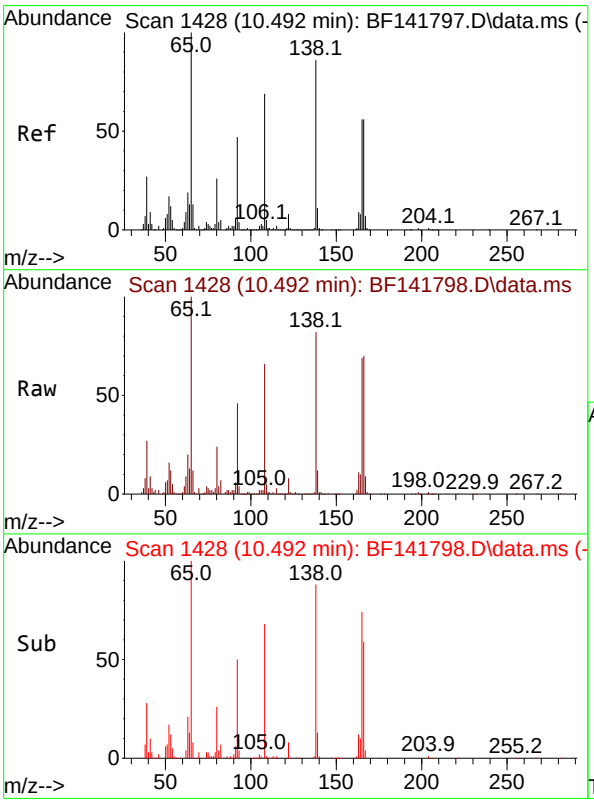
#61
4-Chlorophenyl-phenylether
Concen: 46.084 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 904835

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.2	39.4
141	65.3	51.7	77.5

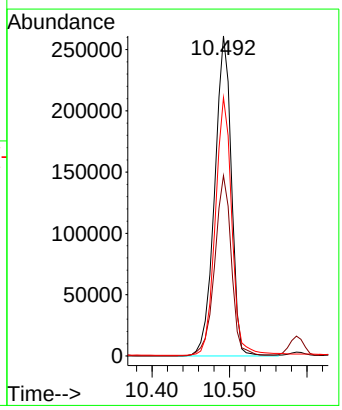


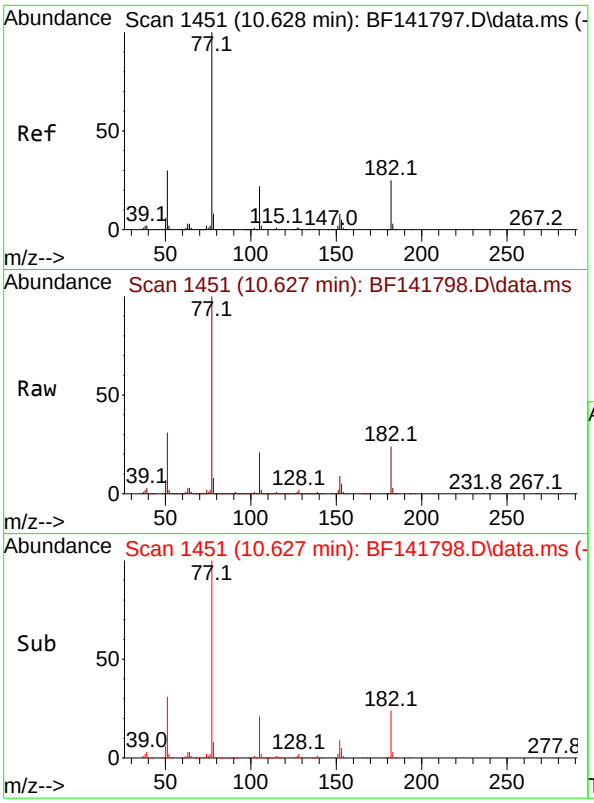


#62
4-Nitroaniline
Concen: 54.114 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:138 Resp: 391399

Ion	Ratio	Lower	Upper
138	100		
92	56.4	34.9	74.9
108	80.7	59.6	99.6



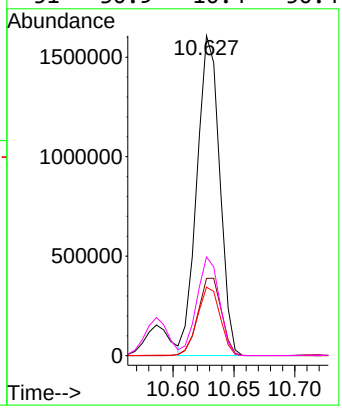


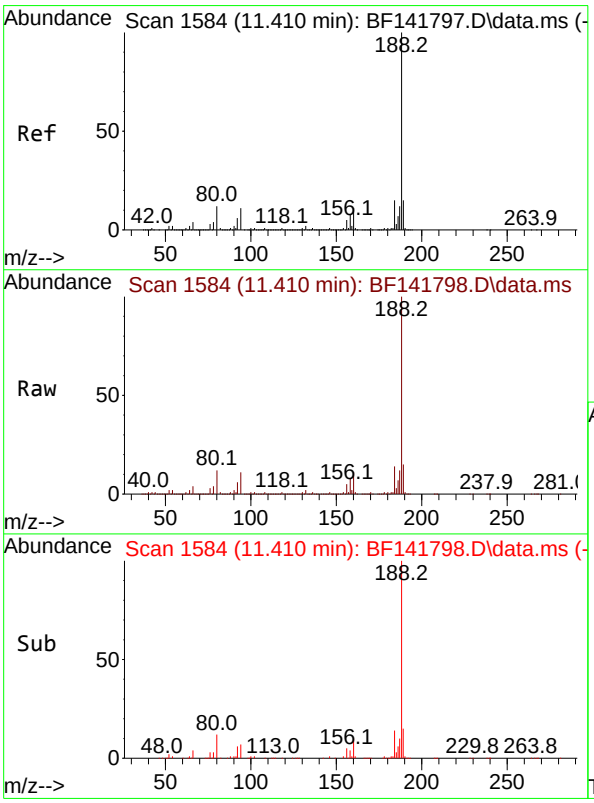
#63
Azobenzene
Concen: 46.687 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 2087153

Ion	Ratio	Lower	Upper
77	100		
182	24.2	4.2	44.2
105	21.4	1.5	41.5
51	30.9	10.4	50.4

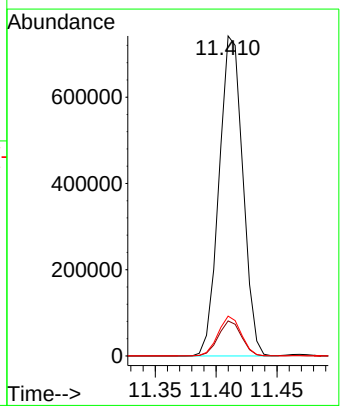


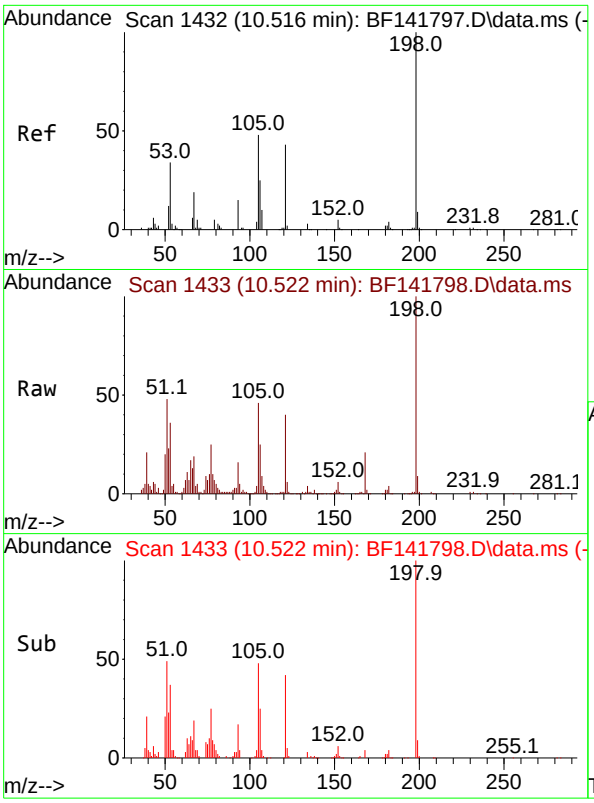


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:188 Resp: 1007266

Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.9	13.3
80	12.5	9.7	14.5



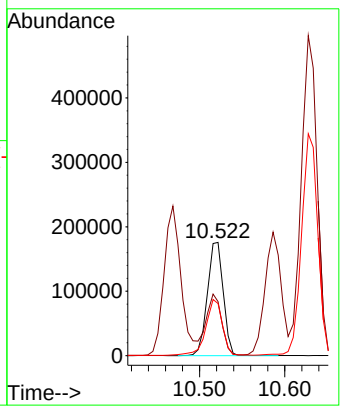


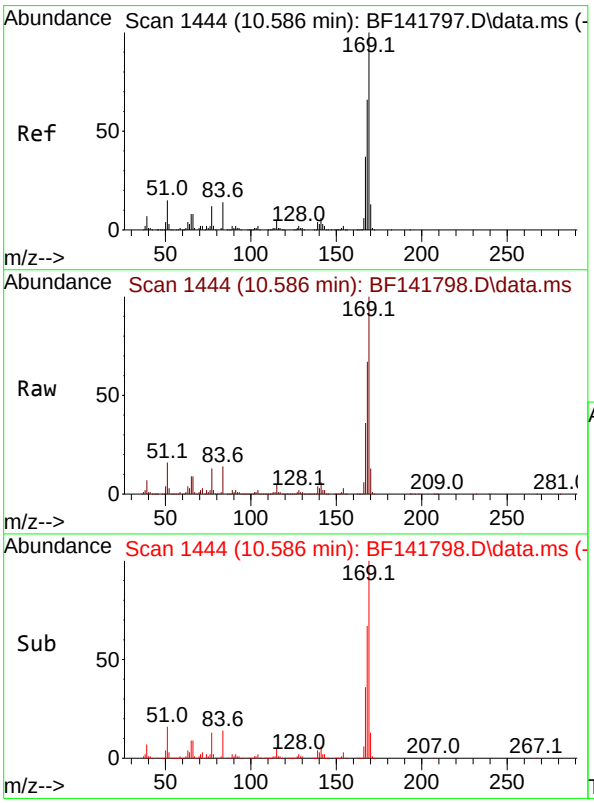
#65
4,6-Dinitro-2-methylphenol
Concen: 47.968 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 227493

Ion	Ratio	Lower	Upper
198	100		
51	47.7	32.1	72.1
105	46.1	28.5	68.5

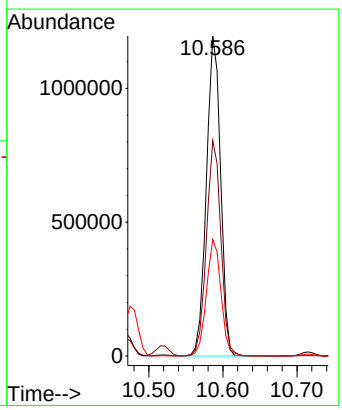


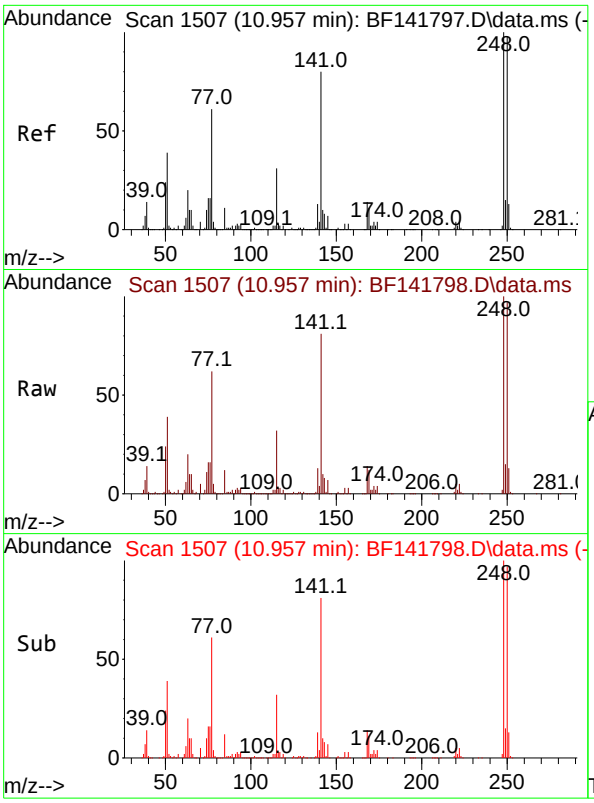


#66
n-Nitrosodiphenylamine
Concen: 48.041 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:169 Resp: 1588976

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.0	79.6
167	36.4	29.3	43.9



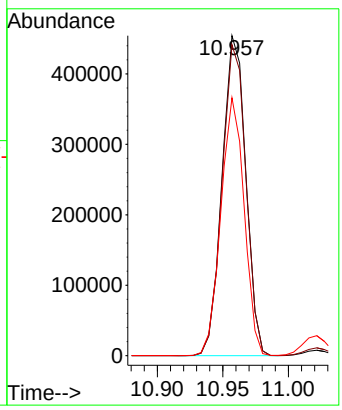


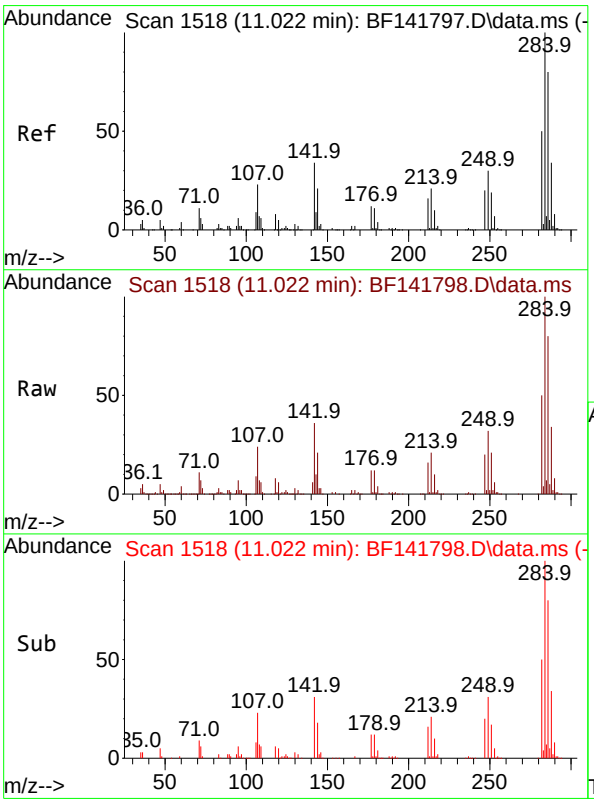
#67
4-Bromophenyl-phenylether
Concen: 48.631 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 572161

Ion	Ratio	Lower	Upper
248	100		
250	97.2	78.1	117.1
141	80.6	64.3	96.5

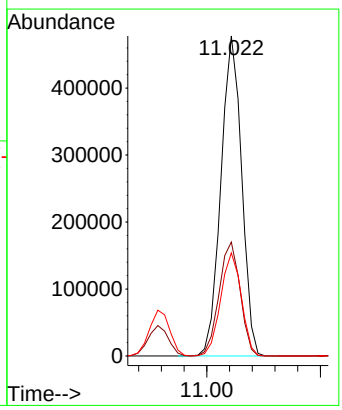


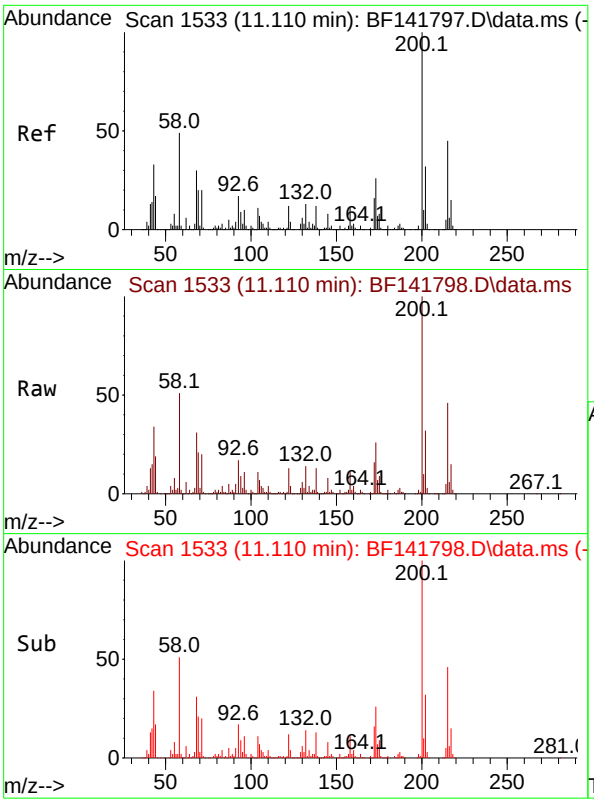


#68
Hexachlorobenzene
Concen: 48.705 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:284 Resp: 605103

Ion	Ratio	Lower	Upper
284	100		
142	35.6	28.2	42.2
249	32.2	25.5	38.3



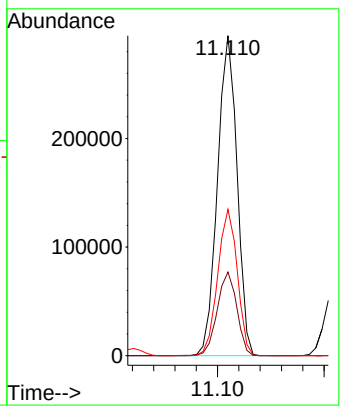


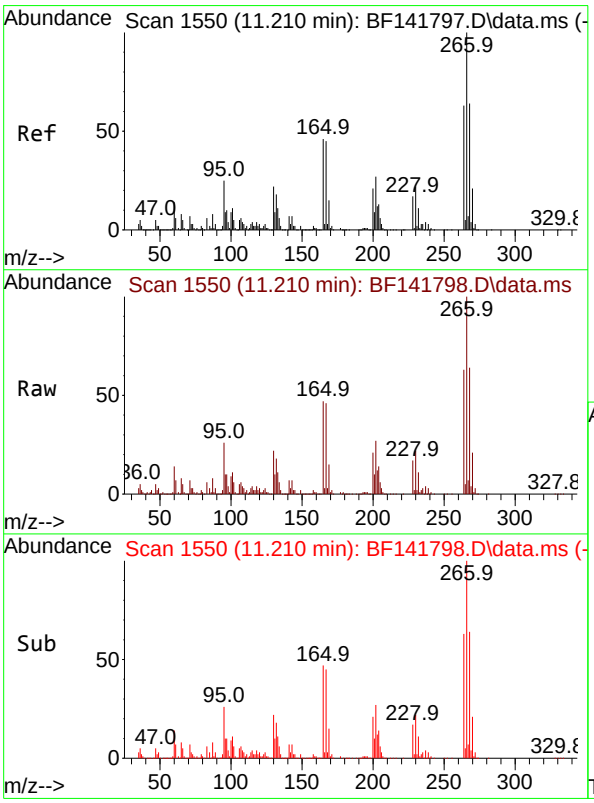
#69
Atrazine
Concen: 41.179 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 374540

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.6	45.6
215	45.7	25.3	65.3

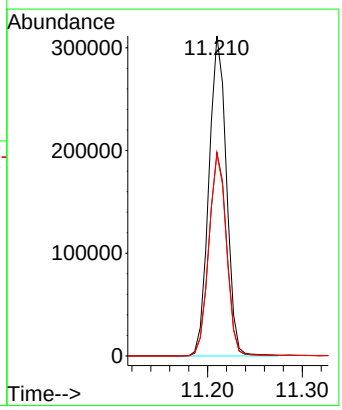


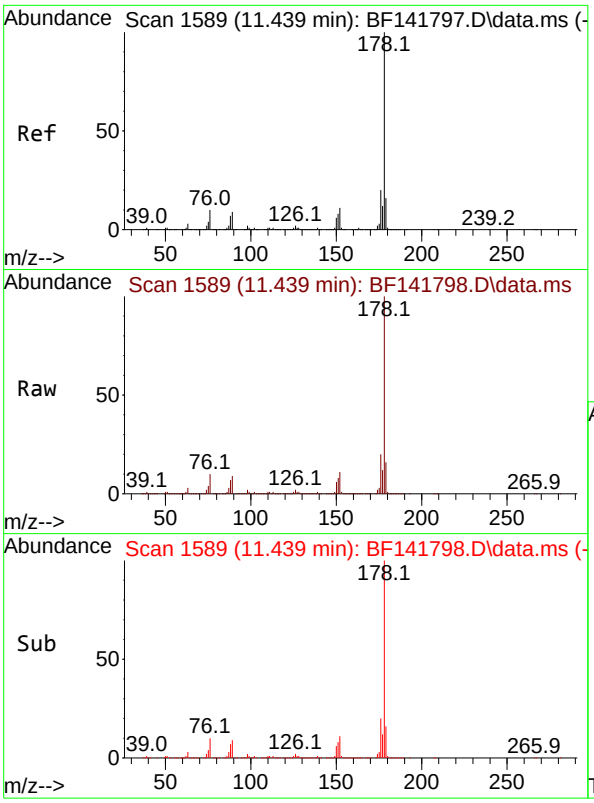


#70
Pentachlorophenol
Concen: 50.809 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:266 Resp: 400352

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.9	76.3
264	63.2	50.2	75.4



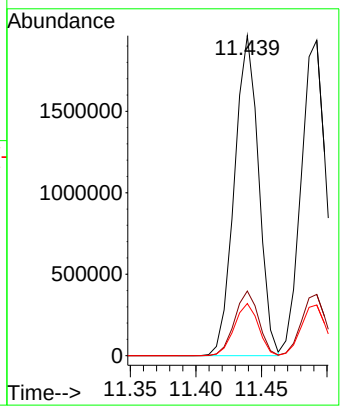


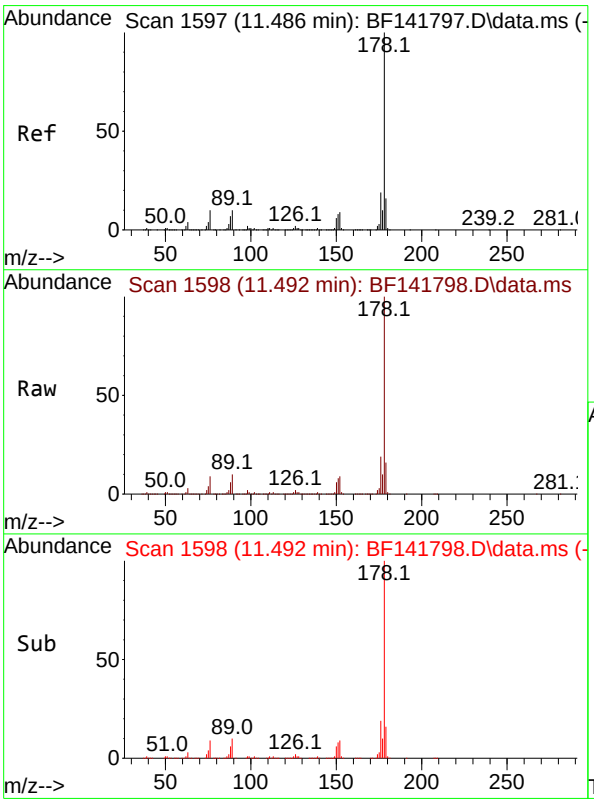
#71
Phenanthrene
Concen: 46.806 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 2521849

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	16.3	12.6	19.0

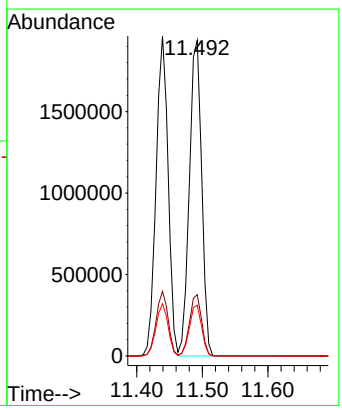


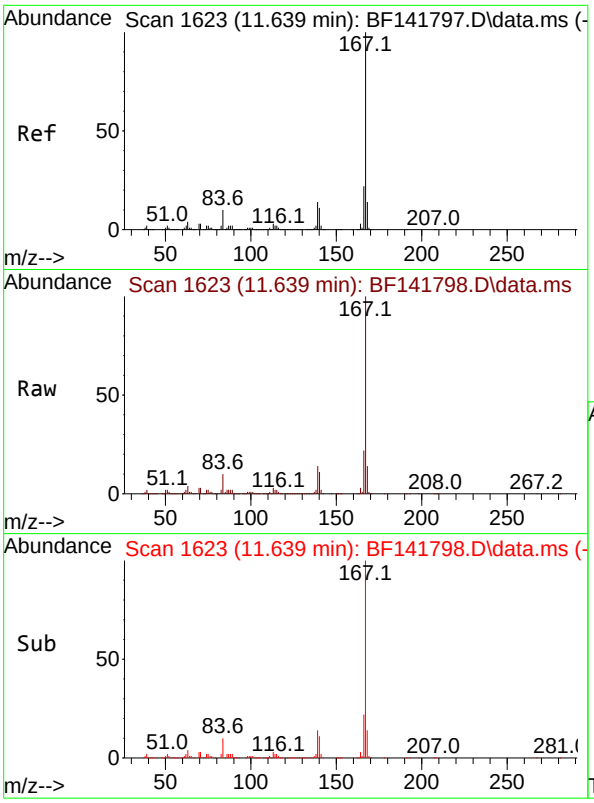


#72
Anthracene
Concen: 46.707 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:178 Resp: 2522132

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	16.1	12.8	19.2



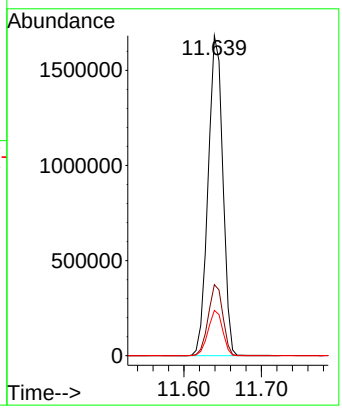


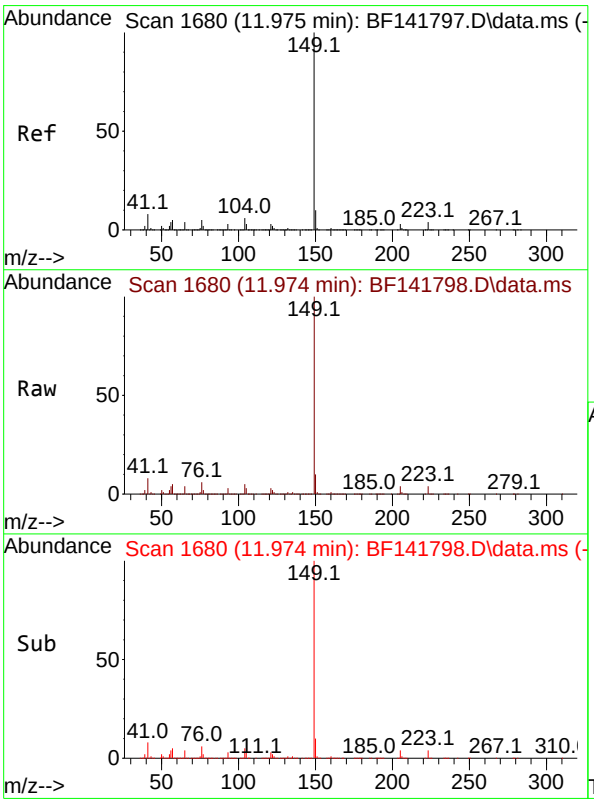
#73
Carbazole
Concen: 46.572 ng
RT: 11.639 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 2220778

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	14.2	11.3	16.9

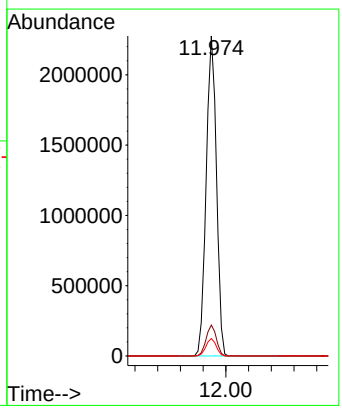


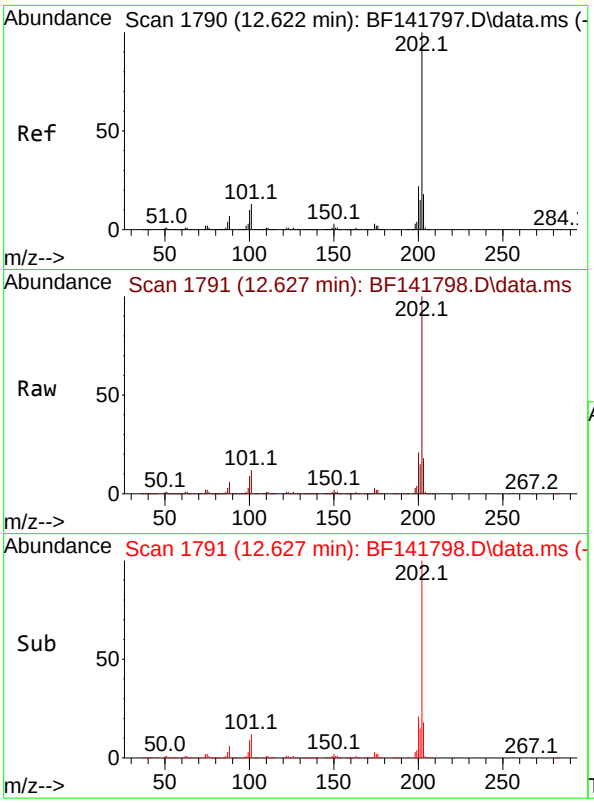


#74
Di-n-butylphthalate
Concen: 46.982 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 2839813

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.7	11.5
104	5.5	4.4	6.6



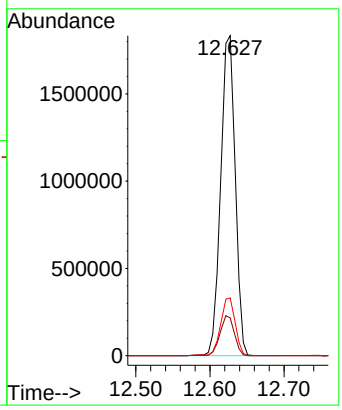


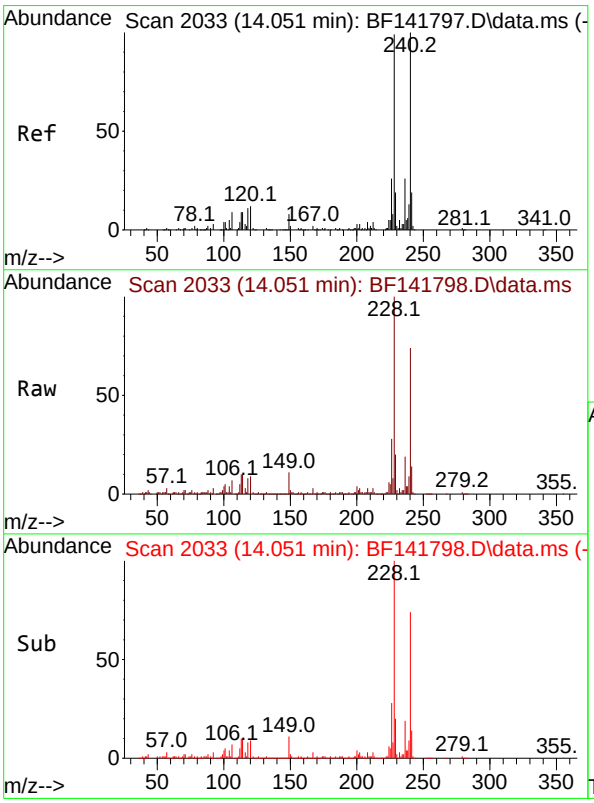
#75
Fluoranthene
Concen: 45.269 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 2499217

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.8
203	18.0	0.0	38.0

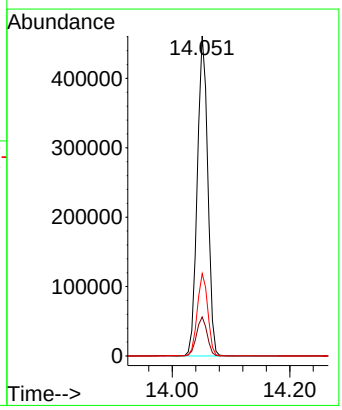


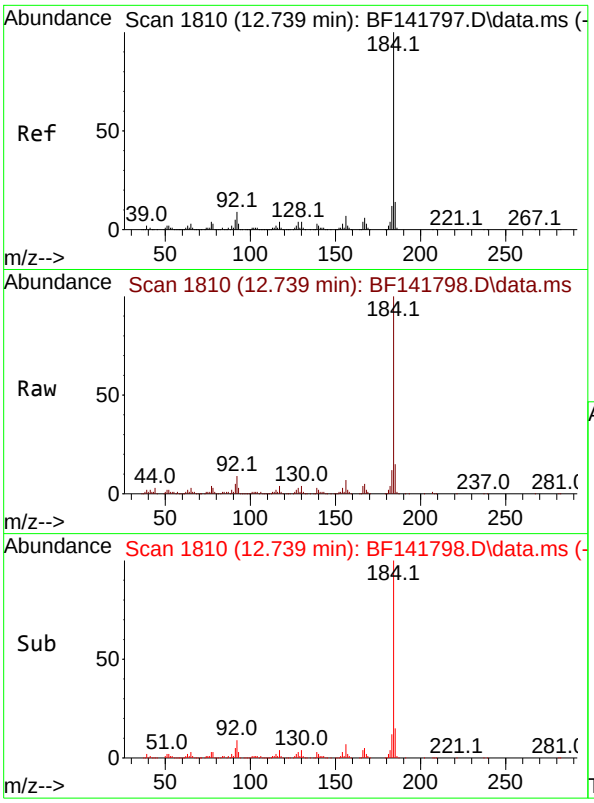


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:240 Resp: 571903

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	25.8	21.0	31.4



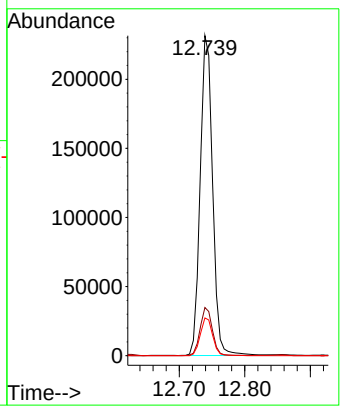


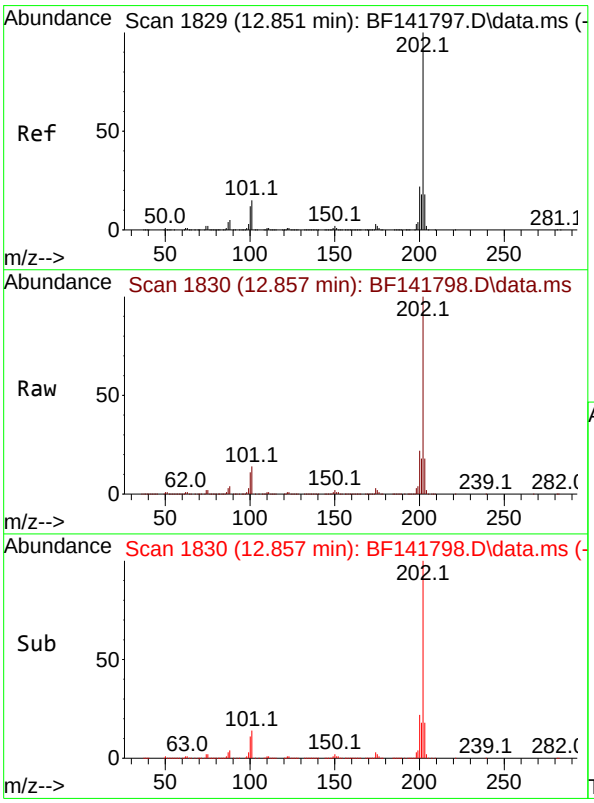
#77
Benzidine
Concen: 42.453 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 305582

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.6	17.4
183	11.8	9.4	14.0

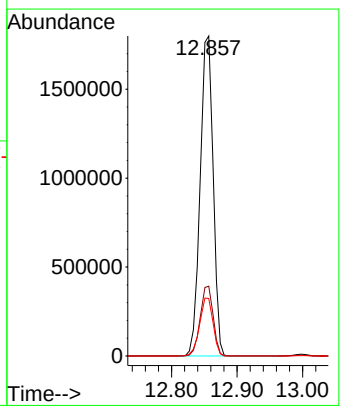


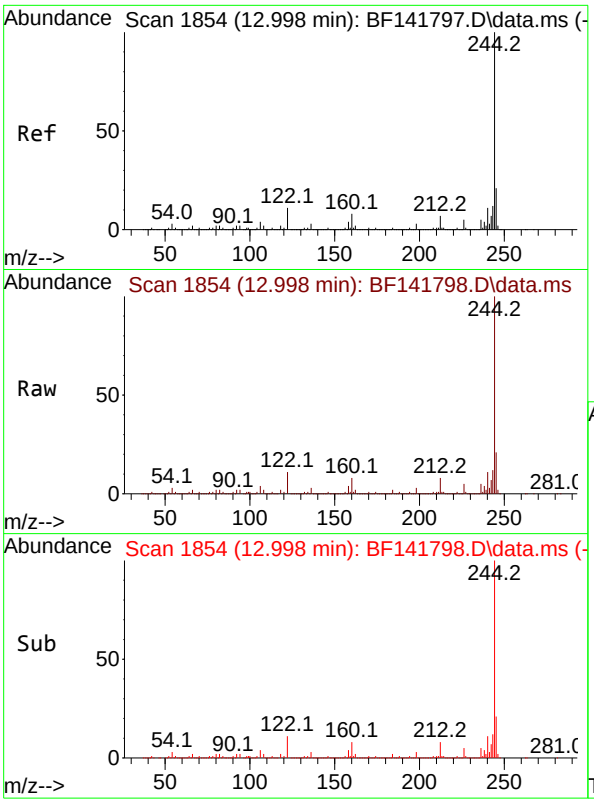


#78
Pyrene
Concen: 50.178 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:202 Resp: 2484995

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.4	26.0
203	18.0	14.6	22.0



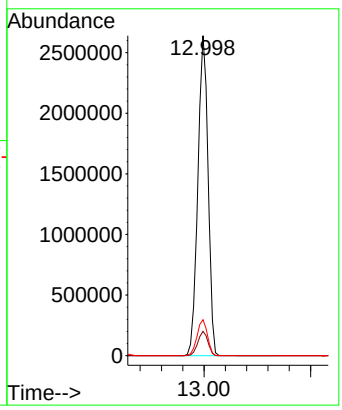


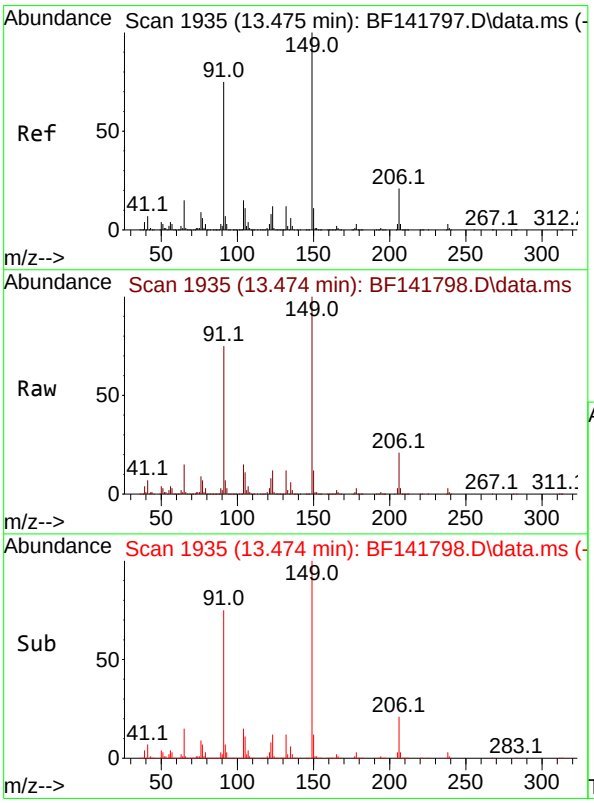
#79
Terphenyl-d14
Concen: 99.483 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 3516535

Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.0	9.0
122	11.3	9.0	13.6

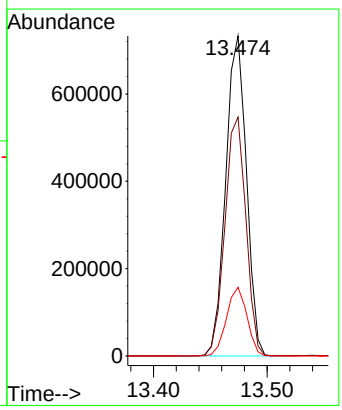


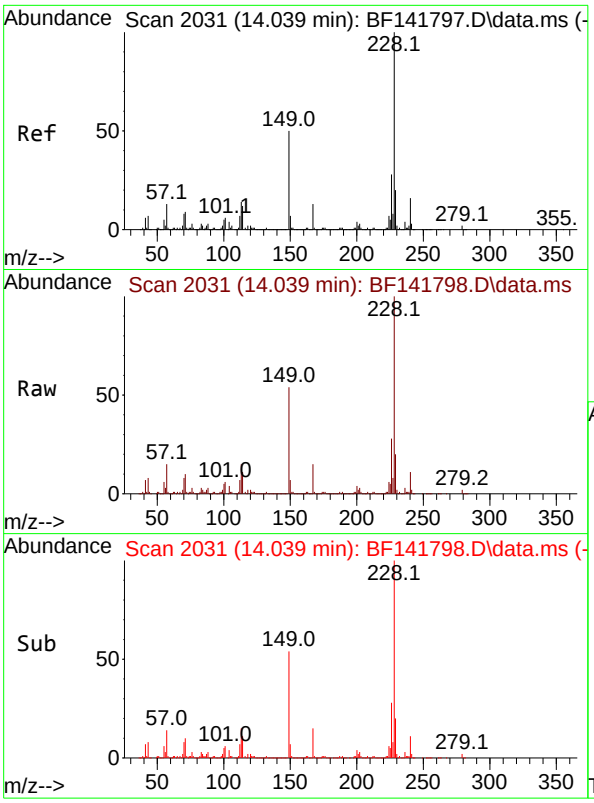


#80
Butylbenzylphthalate
Concen: 51.657 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 929464

Ion	Ratio	Lower	Upper
149	100		
91	74.7	60.1	90.1
206	21.4	16.8	25.2



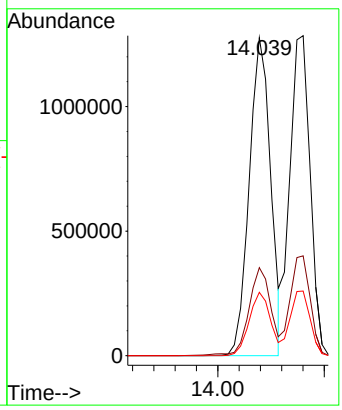


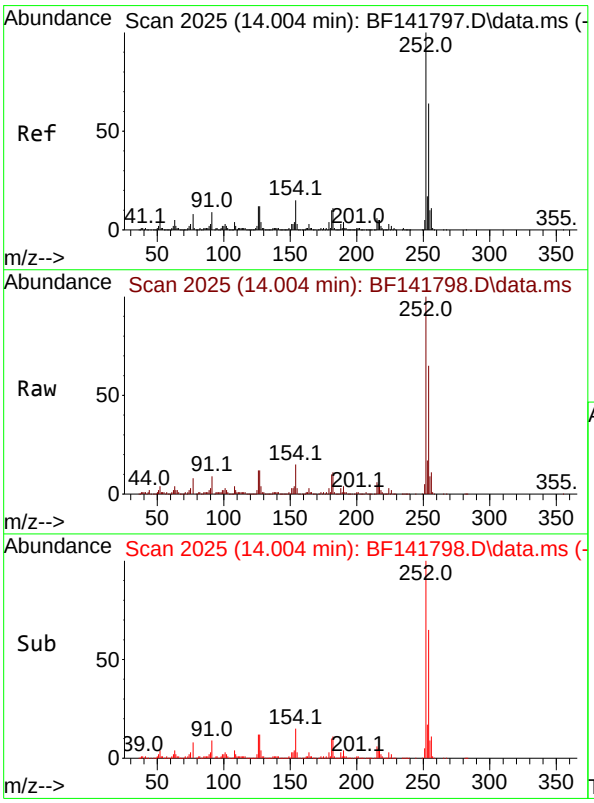
#81
Benzo(a)anthracene
Concen: 47.067 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1777948

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.1	33.1
229	19.9	16.1	24.1

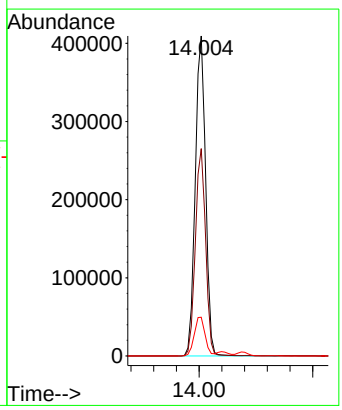


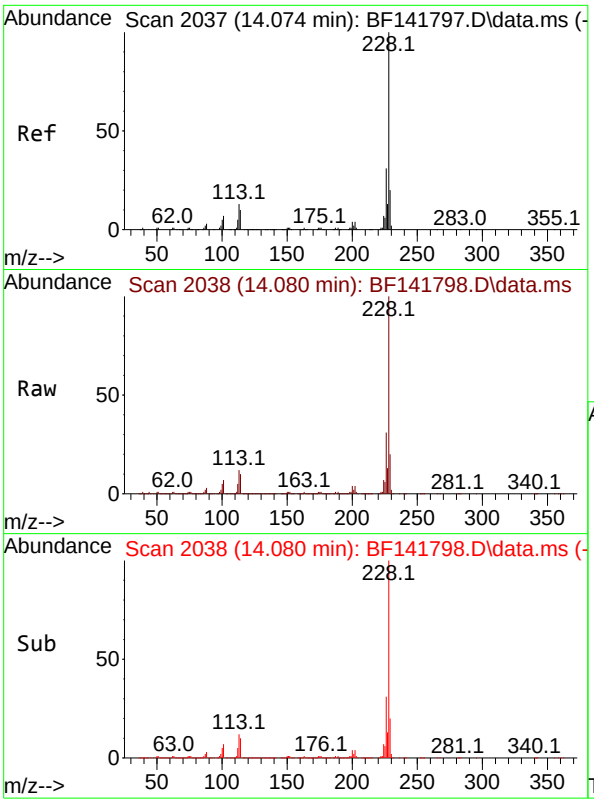


#82
3,3'-Dichlorobenzidine
Concen: 48.021 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 520451

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.4	77.0
126	12.1	9.8	14.6



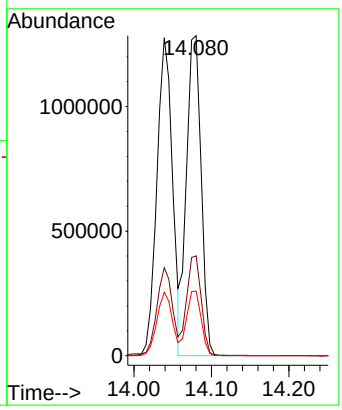


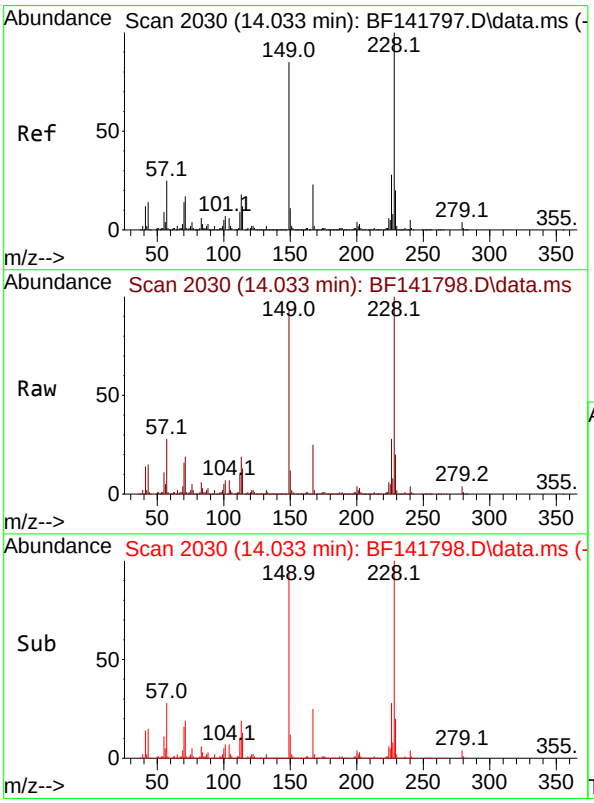
#83
Chrysene
Concen: 48.659 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1694396

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.6	37.0
229	20.2	16.1	24.1

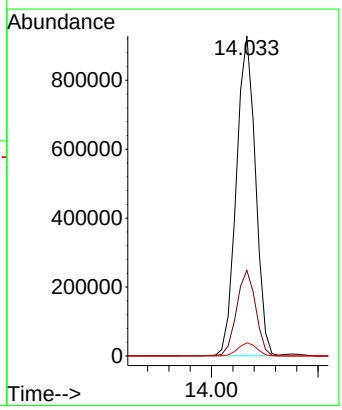


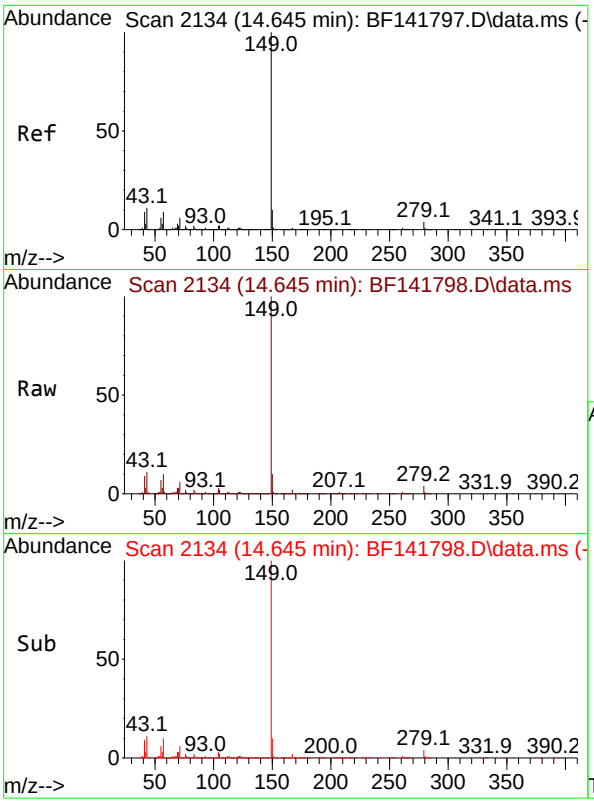


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.766 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:149 Resp: 1159761

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.2	31.8
279	4.1	3.3	4.9



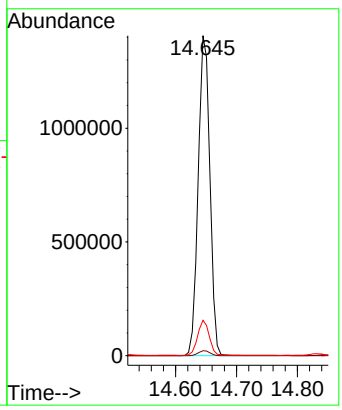


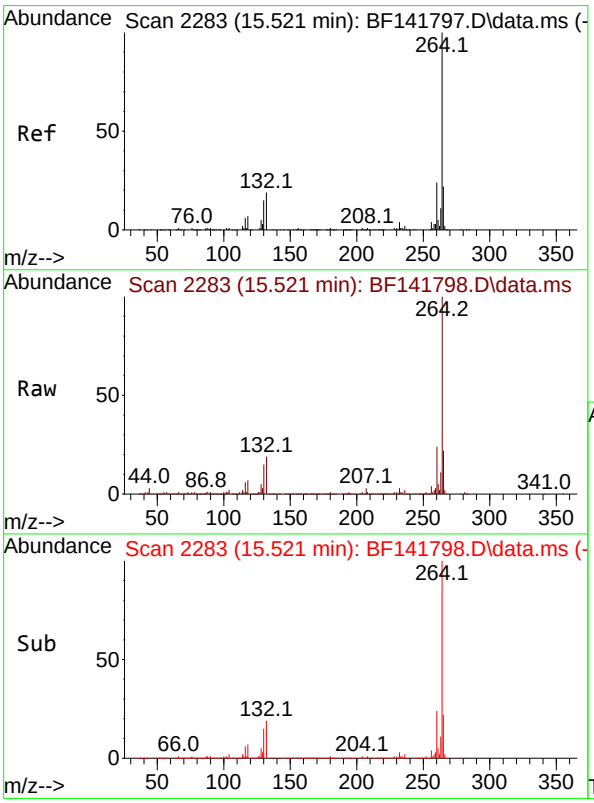
#85
Di-n-octyl phthalate
Concen: 55.606 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1865081

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.8	8.6	12.8

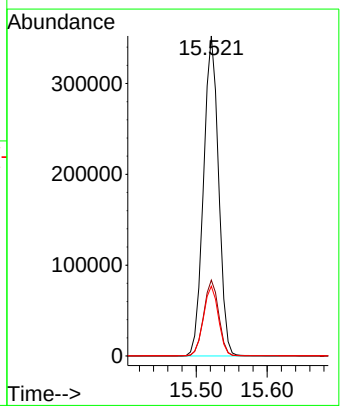


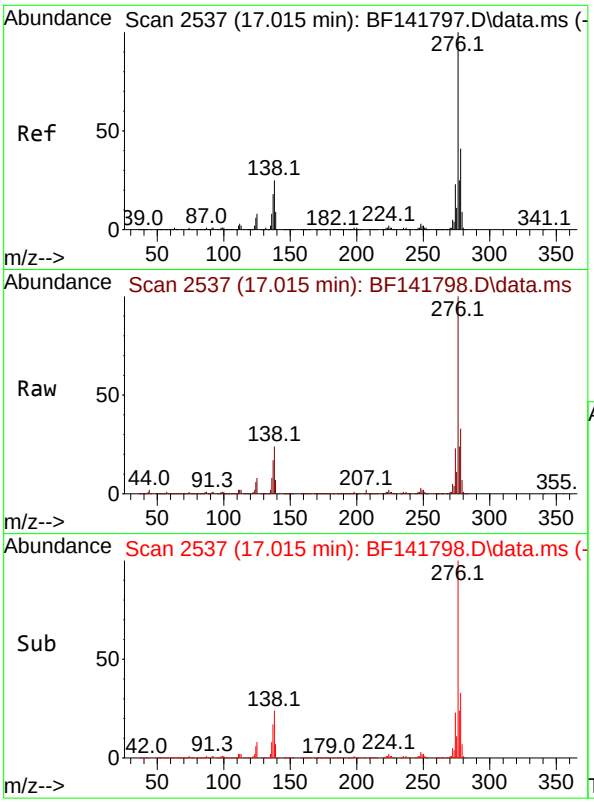


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:264 Resp: 520644

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.8	17.4	26.0



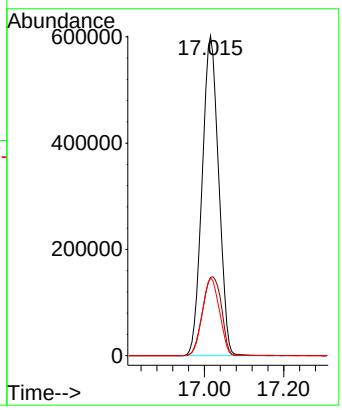


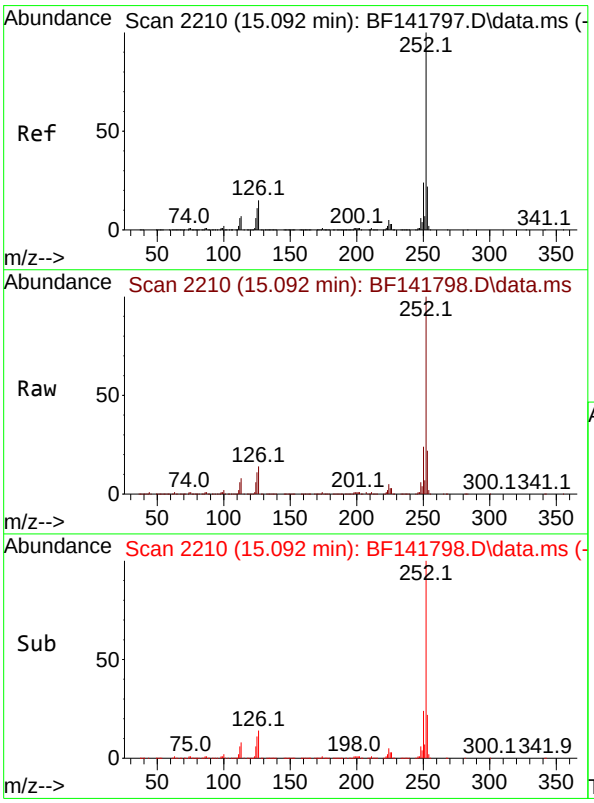
#87
Indeno(1,2,3-cd)pyrene
Concen: 52.510 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1740850

Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.5	33.7
277	25.1	20.3	30.5

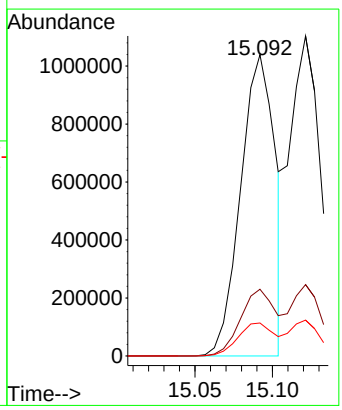


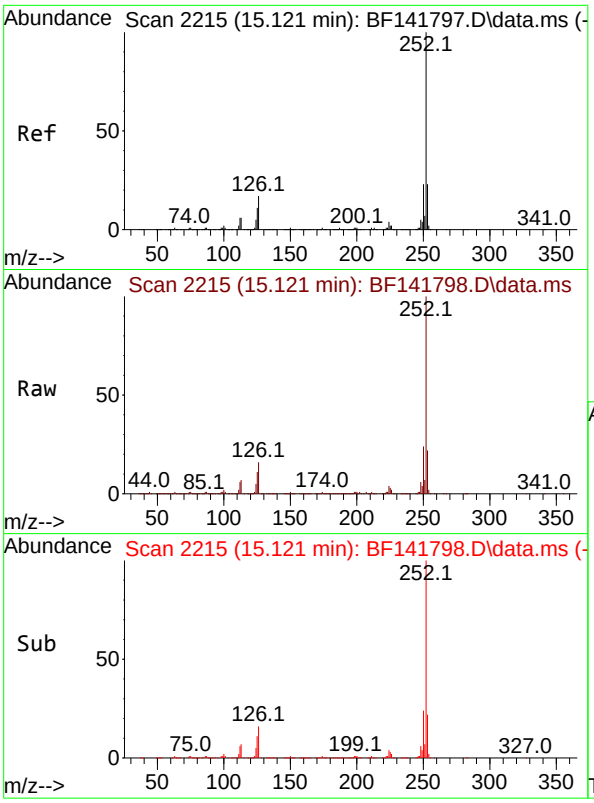


#88
Benzo(b)fluoranthene
Concen: 45.220 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 1603729

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	11.0	8.6	13.0



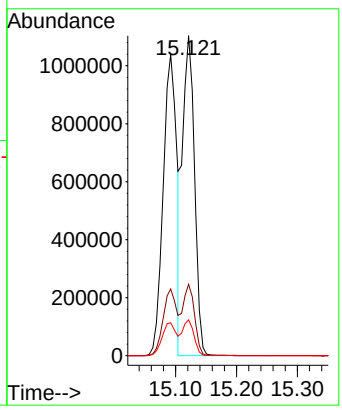


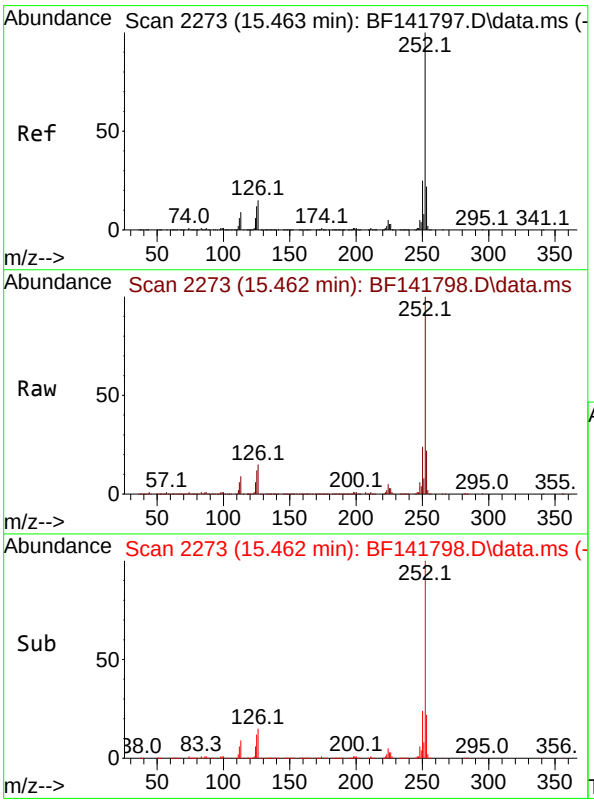
#89
Benzo(k)fluoranthene
Concen: 50.326 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 1516995

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	8.8	13.2

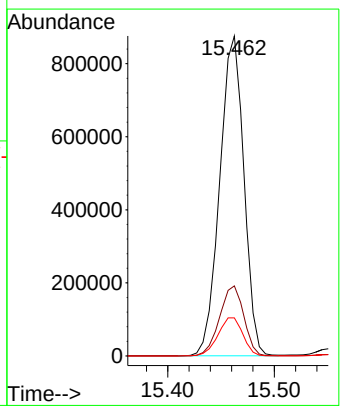


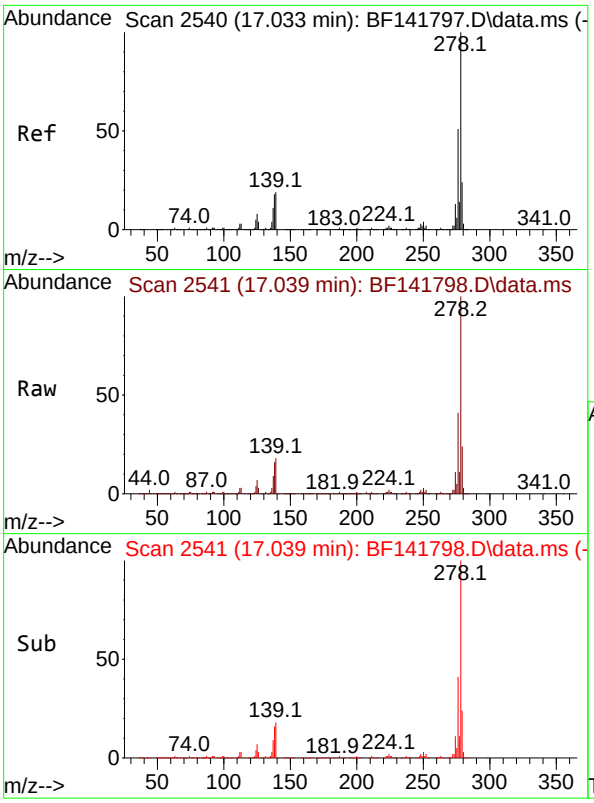


#90
Benzo(a)pyrene
Concen: 48.495 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:252 Resp: 1379319

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.9	9.4	14.2



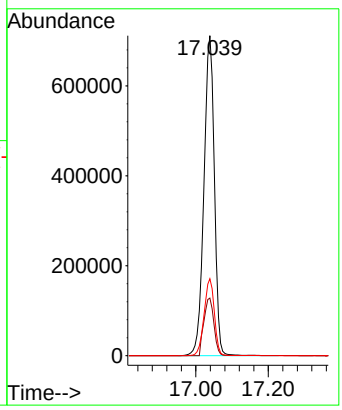


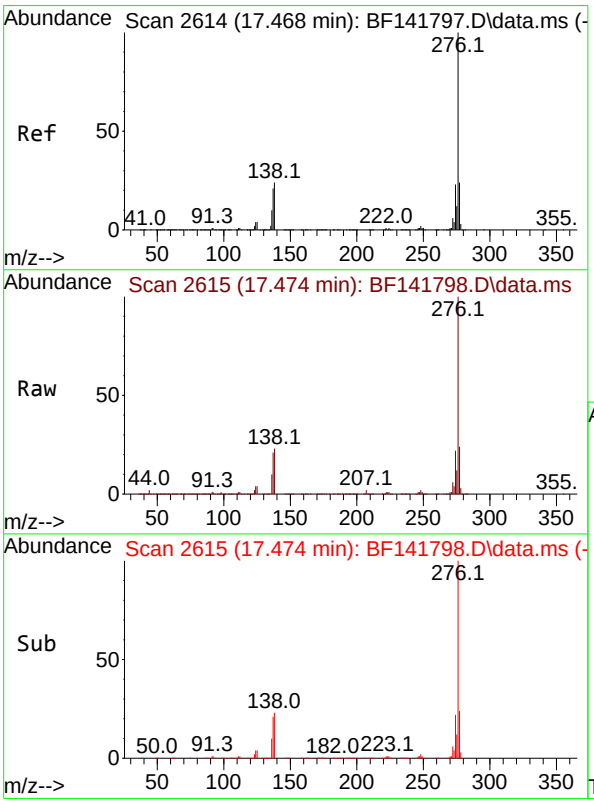
#91
Dibenzo(a,h)anthracene
Concen: 52.616 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 1423862

Ion	Ratio	Lower	Upper
278	100		
139	18.0	14.9	22.3
279	24.1	19.3	28.9

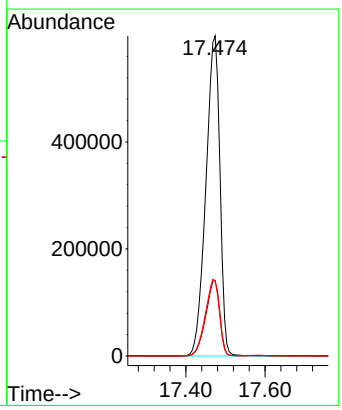




#92
Benzo(g,h,i)perylene
Concen: 53.005 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:276 Resp: 1469480

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.4	29.0
138	23.5	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	297770	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	1163023	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	617087	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	999271	20.000	ng	0.00
76) Chrysene-d12	14.051	240	562939	20.000	ng	0.00
86) Perylene-d12	15.521	264	517191	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	2100577	112.657	ng	0.00
7) Phenol-d6	6.516	99	2720970	112.117	ng	0.00
23) Nitrobenzene-d5	7.457	82	2374498	130.503	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	725271	125.191	ng	0.00
45) 2-Fluorobiphenyl	9.251	172	4223426	109.742	ng	0.00
79) Terphenyl-d14	12.998	244	4143891	119.098	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.681	88	494559	58.455	ng	99
3) Pyridine	3.451	79	1241030	58.955	ng	99
4) n-Nitrosodimethylamine	3.410	42	612676	60.489	ng	98
6) Aniline	6.557	93	1451456	57.840	ng	99
8) 2-Chlorophenol	6.681	128	1130771	56.061	ng	99
9) Benzaldehyde	6.445	77	736273	52.156	ng	99
10) Phenol	6.534	94	1451317	56.130	ng	97
11) bis(2-Chloroethyl)ether	6.634	93	1130421	57.184	ng	98
12) 1,3-Dichlorobenzene	6.834	146	1215544	56.273	ng	99
13) 1,4-Dichlorobenzene	6.910	146	1230489	56.536	ng	99
14) 1,2-Dichlorobenzene	7.063	146	1134751	55.834	ng	100
15) Benzyl Alcohol	7.034	79	1108848	57.170	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	1706347	56.838	ng	99
17) 2-Methylphenol	7.134	107	968603	58.177	ng	99
18) Hexachloroethane	7.404	117	473809	58.163	ng	99
19) n-Nitroso-di-n-propyla...	7.316	70	899573	56.387	ng	99
20) 3+4-Methylphenols	7.292	107	1144144	55.188	ng	95
22) Acetophenone	7.304	105	1588210	56.070	ng	99
24) Nitrobenzene	7.475	77	1244392	63.867	ng	98
25) Isophorone	7.716	82	2297900	58.786	ng	100
26) 2-Nitrophenol	7.786	139	540018	60.712	ng	98
27) 2,4-Dimethylphenol	7.822	122	832135	57.912	ng	100
28) bis(2-Chloroethoxy)met...	7.922	93	1423641	57.094	ng	100
29) 2,4-Dichlorophenol	8.028	162	981508	59.211	ng	100
30) 1,2,4-Trichlorobenzene	8.116	180	1051434	57.885	ng	100
31) Naphthalene	8.198	128	3313144	55.427	ng	99
32) Benzoic acid	7.957	122	749284	60.158	ng	99
33) 4-Chloroaniline	8.245	127	1243216	56.723	ng	100
34) Hexachlorobutadiene	8.310	225	666891	59.082	ng	99
35) Caprolactam	8.628	113	309453	60.671	ng	98
36) 4-Chloro-3-methylphenol	8.716	107	1082457	58.783	ng	99
37) 2-Methylnaphthalene	8.886	142	2160902	55.115	ng	100
38) 1-Methylnaphthalene	8.986	142	2071154	55.054	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	1024373	57.477	ng	99
41) Hexachlorocyclopentadiene	9.039	237	458054	61.586	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	681760	59.220	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

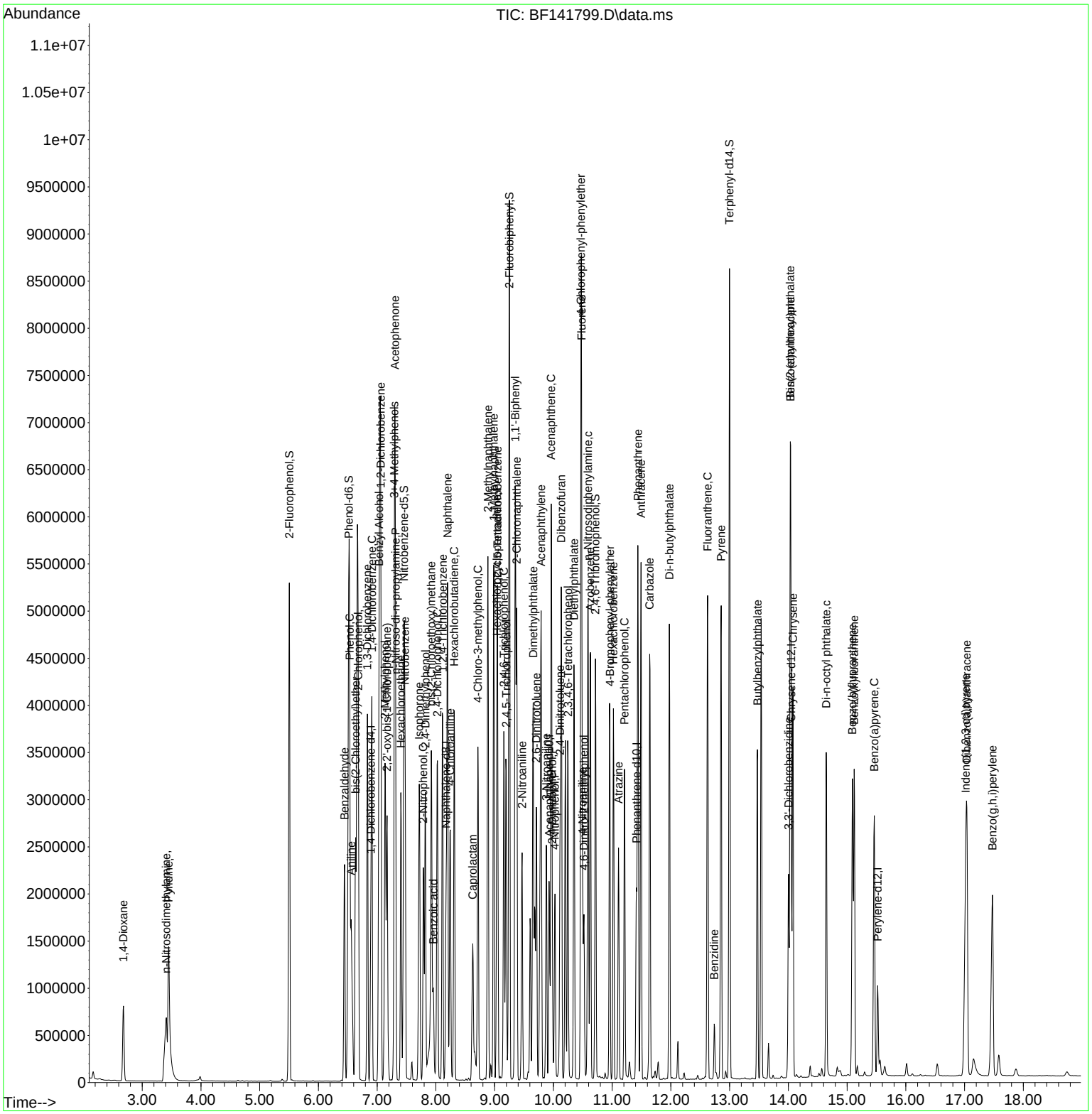
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	703662	61.725	ng		99
46) 1,1'-Biphenyl	9.351	154	2626139	55.911	ng		99
47) 2-Chloronaphthalene	9.375	162	1982513	57.187	ng		99
48) 2-Nitroaniline	9.469	65	590092	60.902	ng		98
49) Acenaphthylene	9.792	152	2954653	56.845	ng		100
50) Dimethylphthalate	9.657	163	2379542	57.581	ng		100
51) 2,6-Dinitrotoluene	9.710	165	491402	61.325	ng		98
52) Acenaphthene	9.963	154	2006502	57.211	ng		99
53) 3-Nitroaniline	9.880	138	521575	61.078	ng		99
54) 2,4-Dinitrophenol	9.980	184	207307	62.312	ng	#	13
55) Dibenzofuran	10.133	168	2854091	55.911	ng		99
56) 4-Nitrophenol	10.028	139	424581	69.564	ng		100
57) 2,4-Dinitrotoluene	10.116	165	601539	61.246	ng		99
58) Fluorene	10.480	166	2099887	54.917	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	596455	60.159	ng		99
60) Diethylphthalate	10.351	149	2360216	56.972	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	1079059	56.324	ng		98
62) 4-Nitroaniline	10.498	138	490806	69.546	ng		99
63) Azobenzene	10.627	77	2453259	56.242	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	300954	61.255	ng		99
66) n-Nitrosodiphenylamine	10.592	169	1867463	56.913	ng		98
67) 4-Bromophenyl-phenylether	10.963	248	688777	59.012	ng		97
68) Hexachlorobenzene	11.022	284	726507	58.945	ng		98
69) Atrazine	11.110	200	416878	46.200	ng		100
70) Pentachlorophenol	11.210	266	492228	62.968	ng		99
71) Phenanthrene	11.439	178	3002094	56.165	ng		99
72) Anthracene	11.492	178	2966353	55.373	ng		99
73) Carbazole	11.639	167	2612132	55.217	ng		99
74) Di-n-butylphthalate	11.974	149	3338525	55.675	ng		99
75) Fluoranthene	12.627	202	2940034	53.680	ng		99
77) Benzidine	12.739	184	306135	43.207	ng		99
78) Pyrene	12.857	202	2927964	60.064	ng		100
80) Butylbenzylphthalate	13.474	149	1126511	63.605	ng		100
81) Benzo(a)anthracene	14.039	228	2130928	57.309	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	614898	57.639	ng		100
83) Chrysene	14.080	228	2040957	59.545	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1398602	63.421	ng		99
85) Di-n-octyl phthalate	14.645	149	2225625	67.411	ng		99
87) Indeno(1,2,3-cd)pyrene	17.021	276	2127125	64.589	ng		100
88) Benzo(b)fluoranthene	15.092	252	2126076	60.349	ng		99
89) Benzo(k)fluoranthene	15.121	252	1614240	53.909	ng		100
90) Benzo(a)pyrene	15.462	252	1676196	59.327	ng		99
91) Dibenzo(a,h)anthracene	17.039	278	1708189	63.544	ng		100
92) Benzo(g,h,i)perylene	17.474	276	1792957	65.105	ng		99

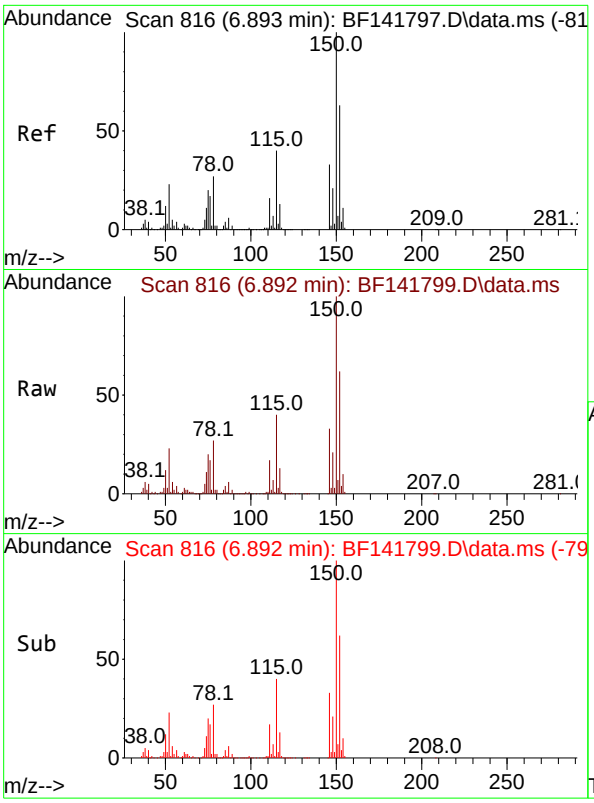
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141799.D
Acq On : 27 Feb 2025 18:15
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Quant Time: Feb 28 01:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration



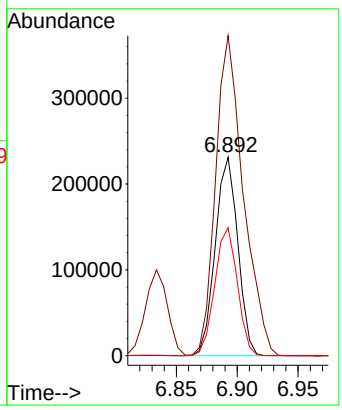


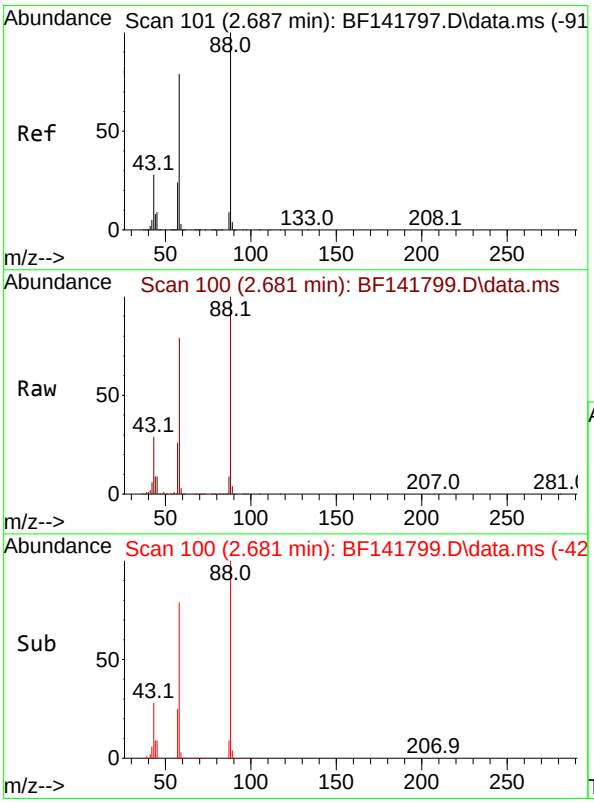
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 297770

Ion	Ratio	Lower	Upper
152	100		
150	161.3	127.5	191.3
115	64.5	51.4	77.2

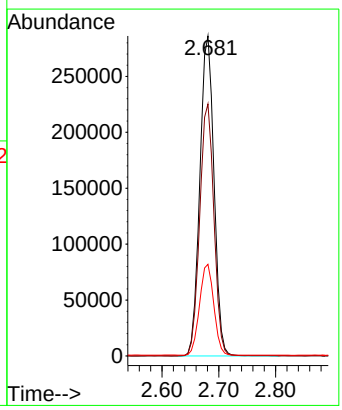


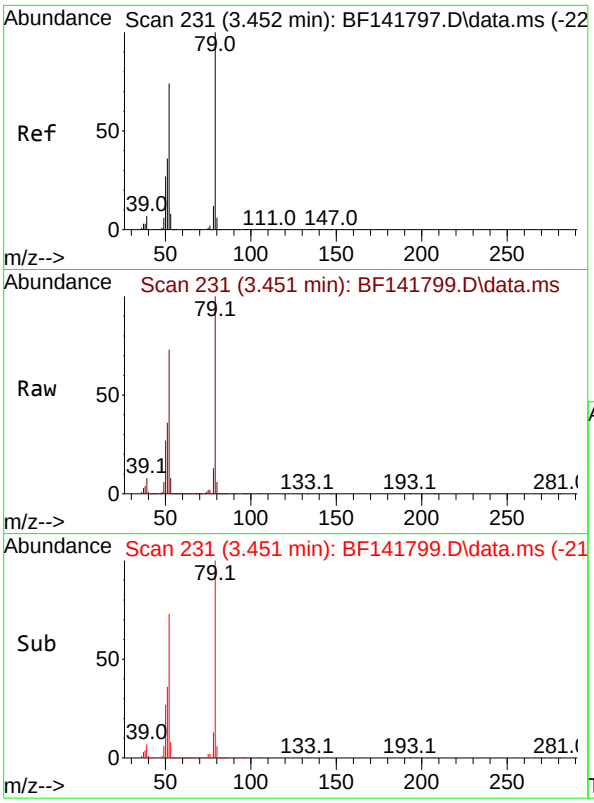


#2
1,4-Dioxane
Concen: 58.455 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 88 Resp: 494559

Ion	Ratio	Lower	Upper
88	100		
58	79.2	63.9	95.9
43	28.6	23.0	34.6



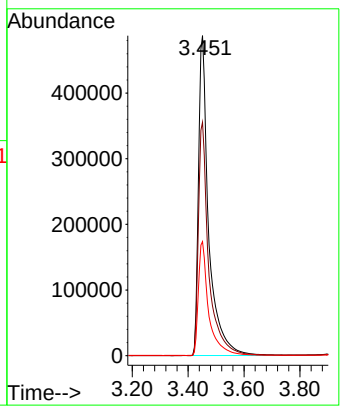


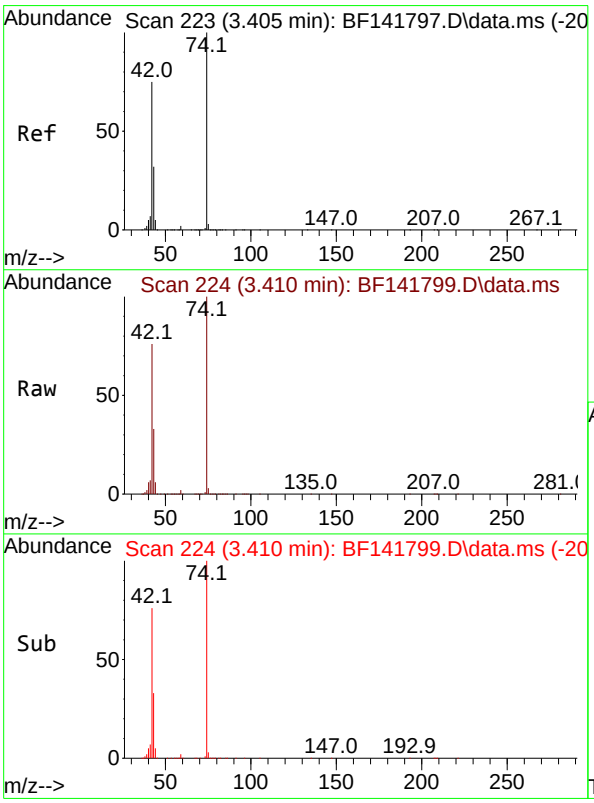
#3
Pyridine
Concen: 58.955 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 1241030

Ion	Ratio	Lower	Upper
79	100		
52	73.0	59.0	88.4
51	35.6	29.0	43.4

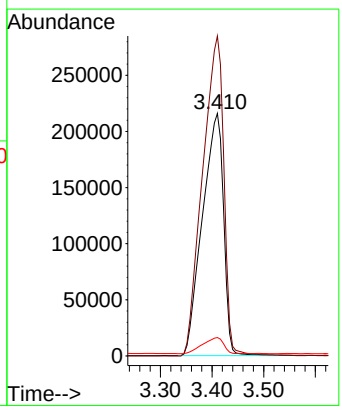


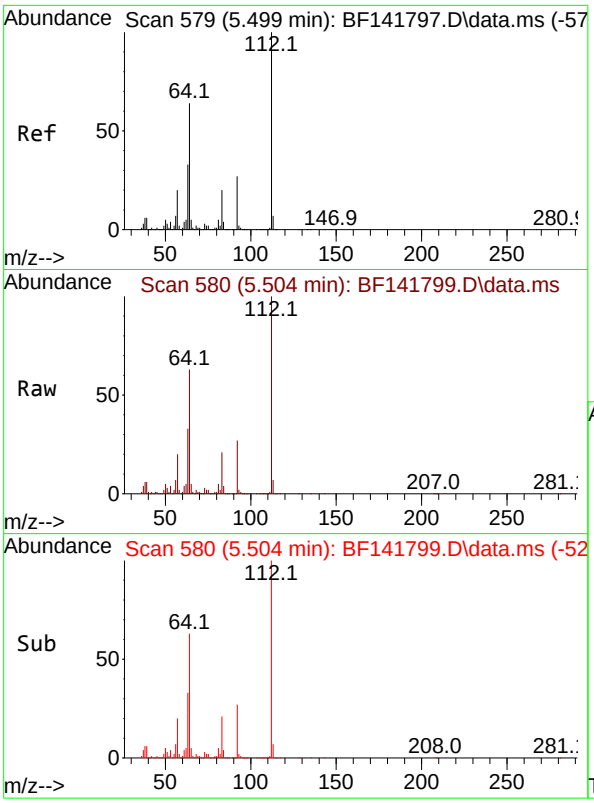


#4
n-Nitrosodimethylamine
Concen: 60.489 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 42 Resp: 612676

Ion	Ratio	Lower	Upper
42	100		
74	131.9	107.1	160.7
44	7.6	6.6	9.8



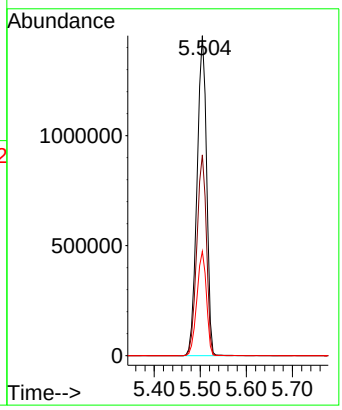


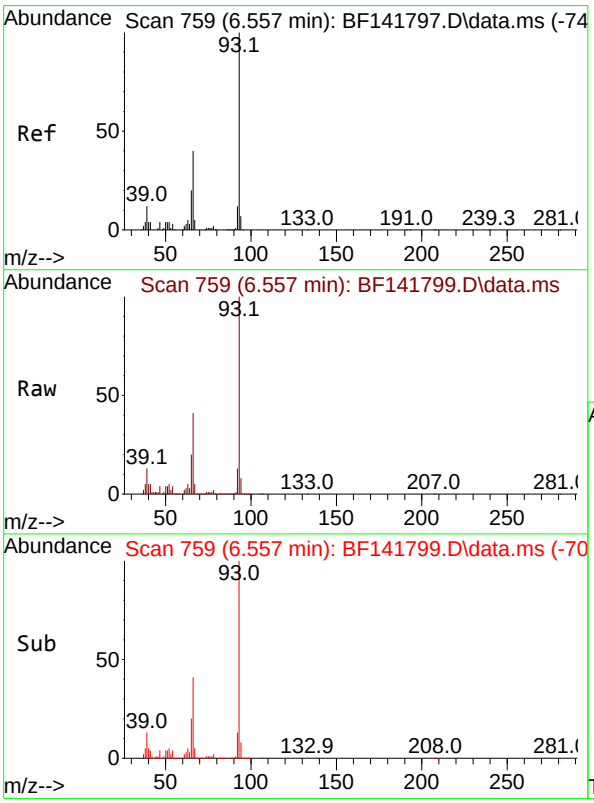
#5
2-Fluorophenol
Concen: 112.657 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 2100577

Ion	Ratio	Lower	Upper
112	100		
64	62.8	51.3	76.9
63	32.6	26.2	39.4

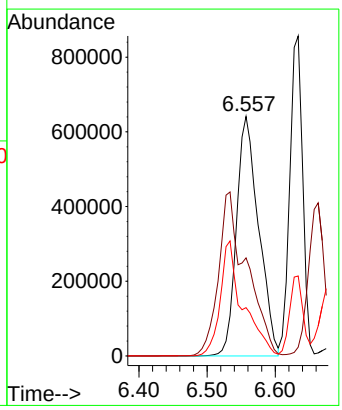


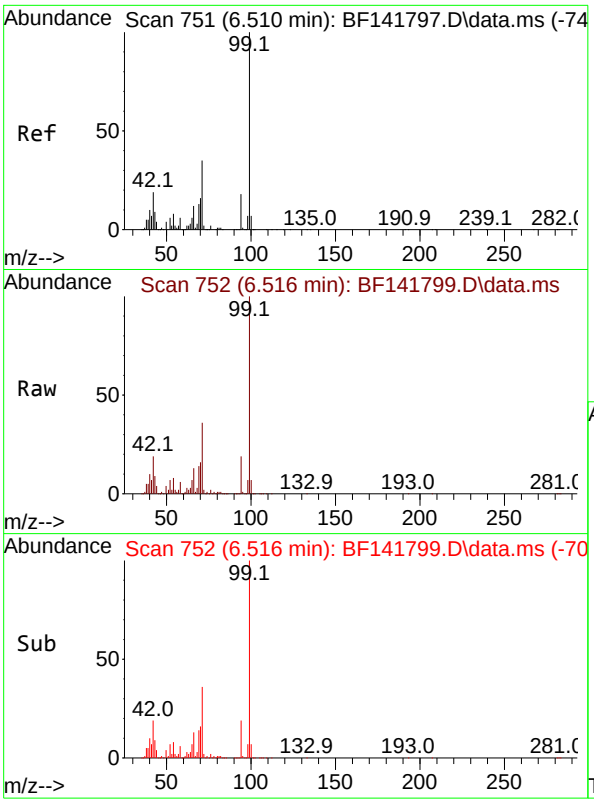


#6
Aniline
Concen: 57.840 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 93 Resp: 1451456

Ion	Ratio	Lower	Upper
93	100		
66	41.0	32.3	48.5
65	20.2	15.9	23.9



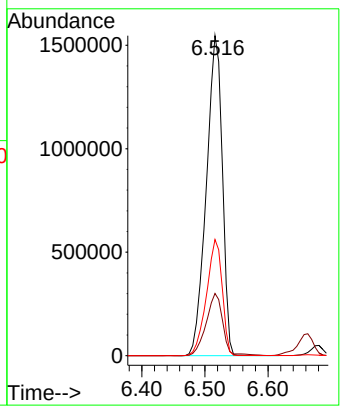


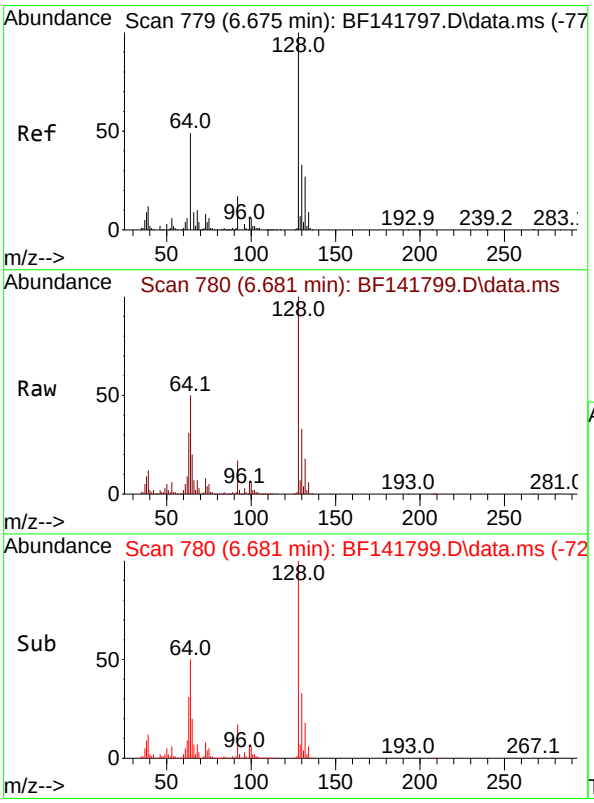
#7
Phenol-d6
Concen: 112.117 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 2720970

Ion	Ratio	Lower	Upper
99	100		
42	19.5	15.2	22.8
71	36.3	28.2	42.2

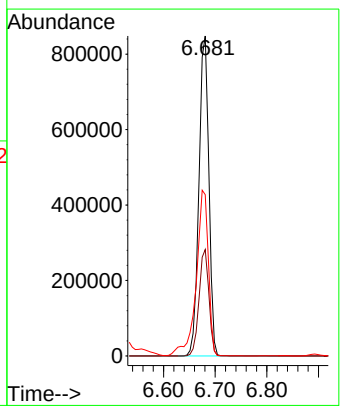


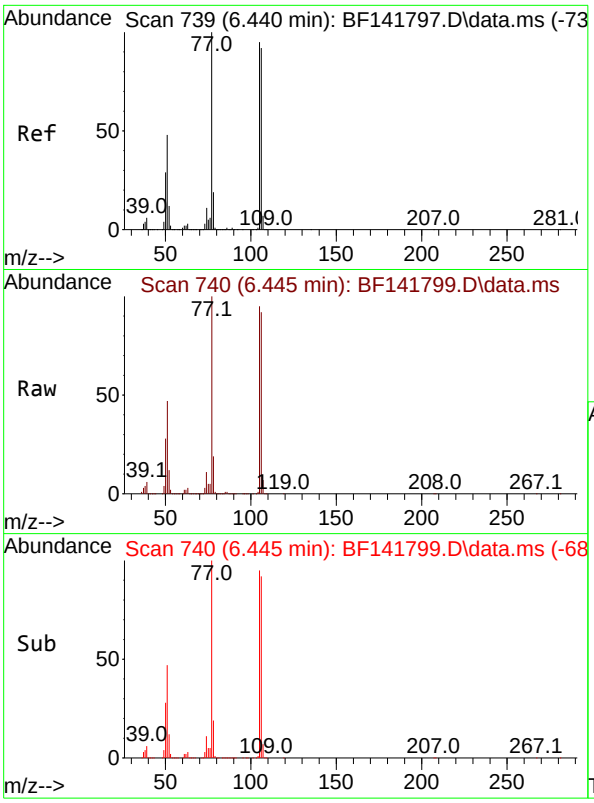


#8
2-Chlorophenol
Concen: 56.061 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:128 Resp: 1130771

Ion	Ratio	Lower	Upper
128	100		
130	33.3	12.6	52.6
64	50.4	31.1	71.1



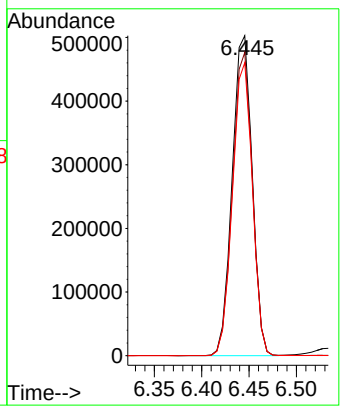


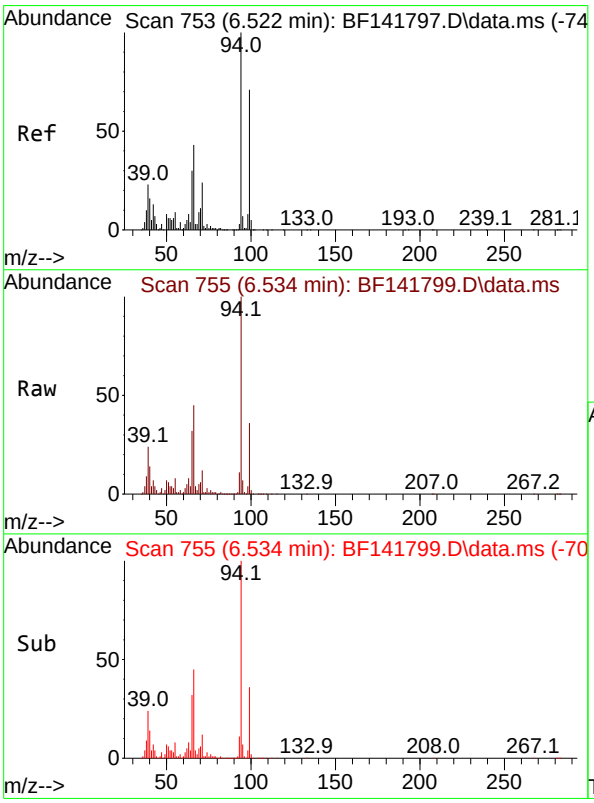
#9
Benzaldehyde
Concen: 52.156 ng
RT: 6.445 min Scan# 74
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 736273

Ion	Ratio	Lower	Upper
77	100		
105	94.7	75.3	115.3
106	91.6	72.3	112.3

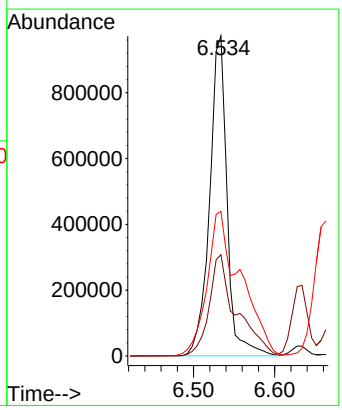


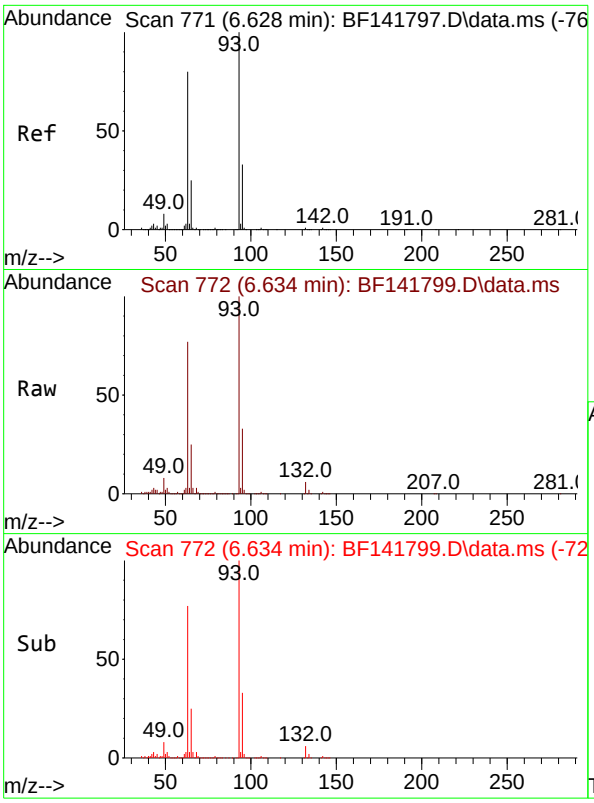


#10
Phenol
Concen: 56.130 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 94 Resp: 1451317

Ion	Ratio	Lower	Upper
94	100		
65	31.7	10.2	50.2
66	45.1	23.2	63.2



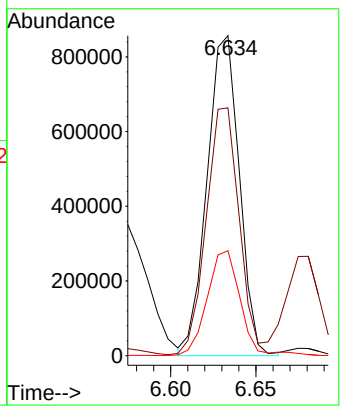


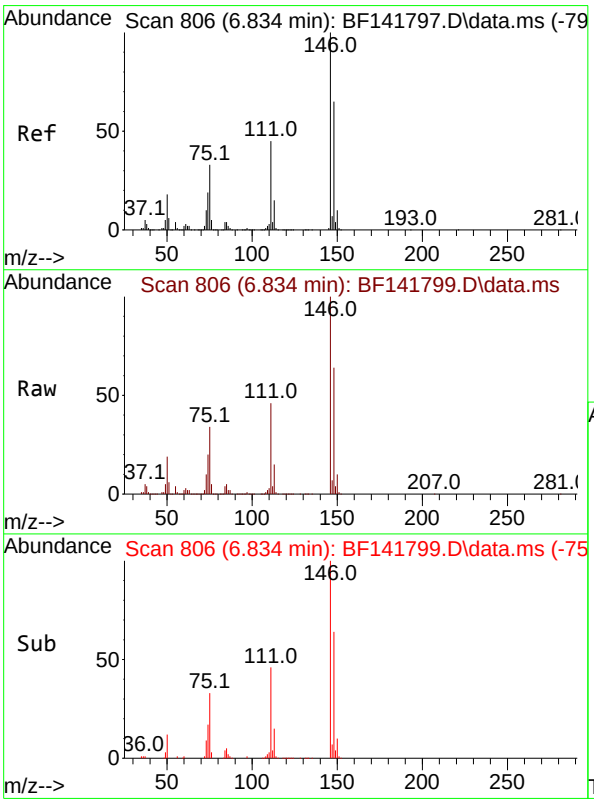
#11
bis(2-Chloroethyl)ether
Concen: 57.184 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 1130421

Ion	Ratio	Lower	Upper
93	100		
63	77.4	59.3	99.3
95	32.8	13.2	53.2

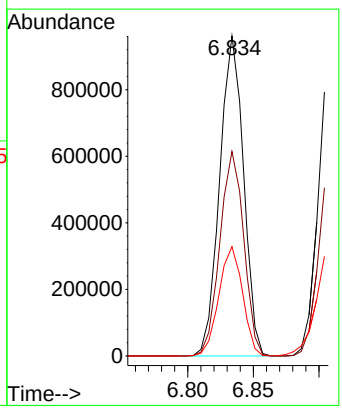


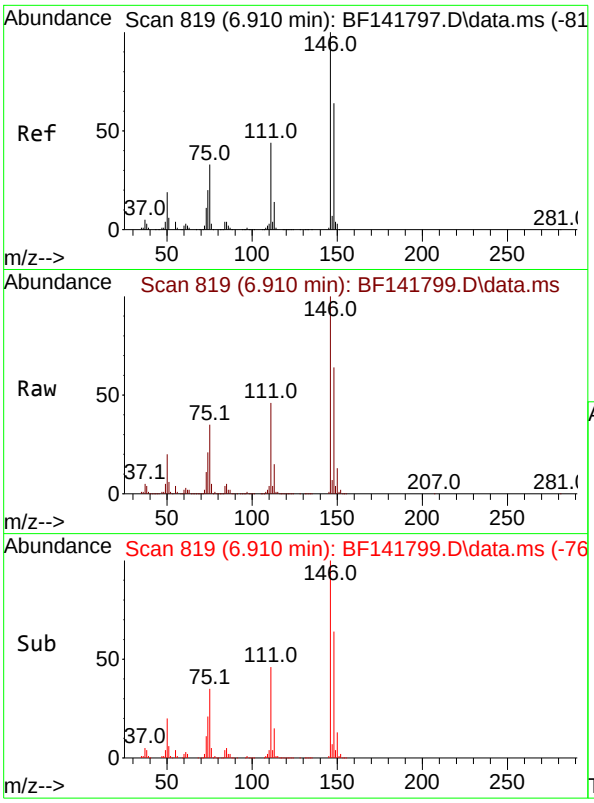


#12
1,3-Dichlorobenzene
Concen: 56.273 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:146 Resp: 1215544

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.6
75	34.1	26.2	39.4



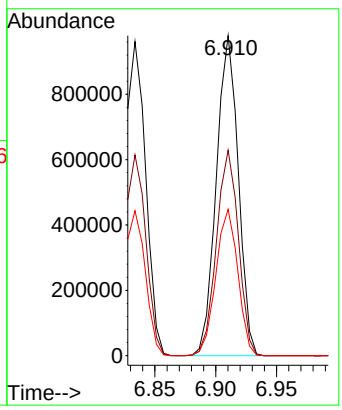


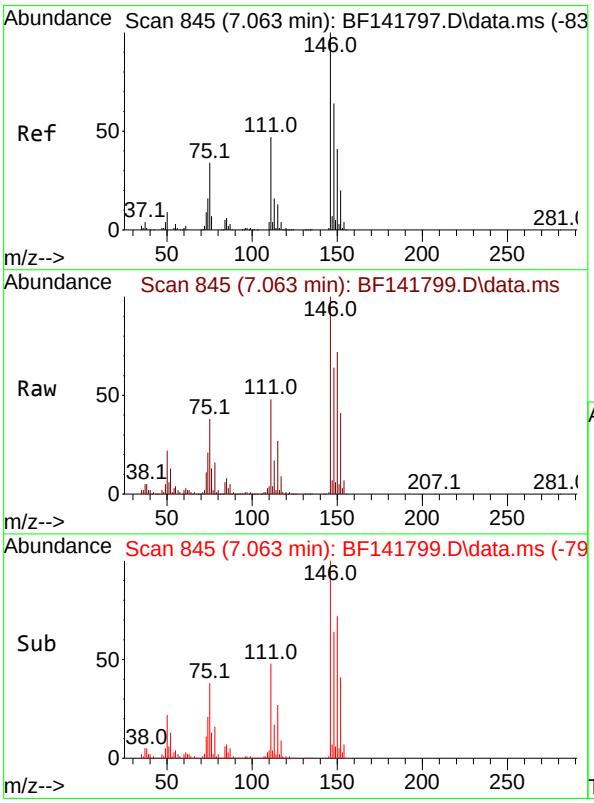
#13
1,4-Dichlorobenzene
Concen: 56.536 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 1230489

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
111	45.8	35.5	53.3

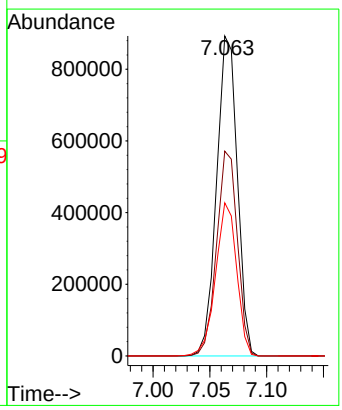


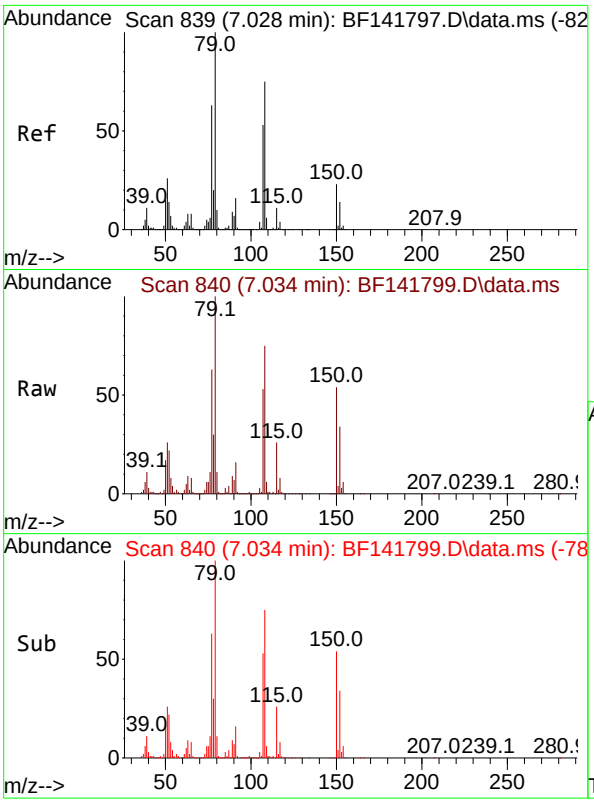


#14
1,2-Dichlorobenzene
Concen: 55.834 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:146 Resp: 1134751

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	47.8	37.8	56.6



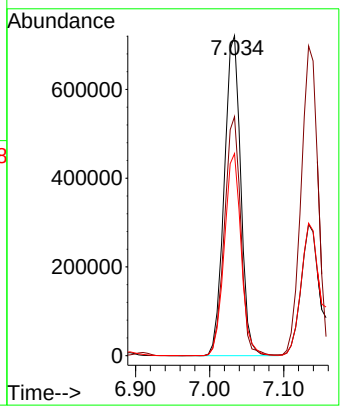


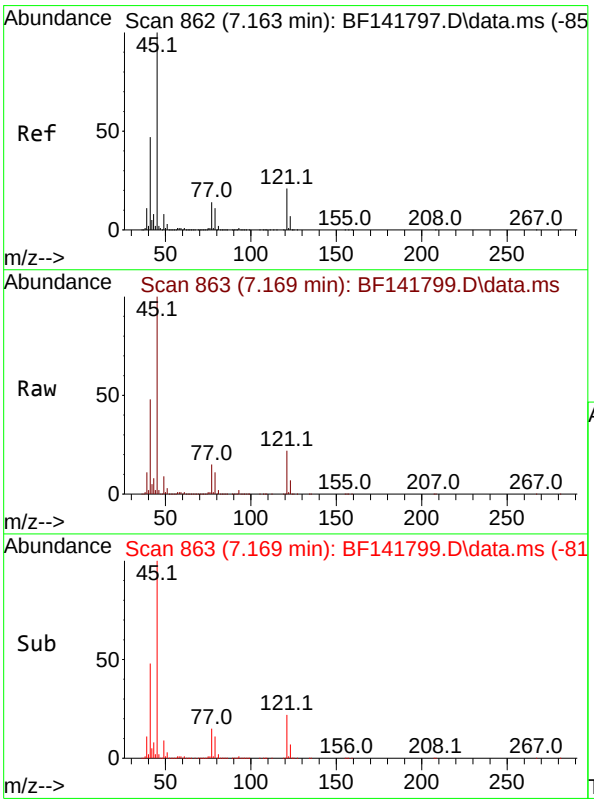
#15
Benzyl Alcohol
Concen: 57.170 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 1108848

Ion	Ratio	Lower	Upper
79	100		
108	74.7	60.2	90.2
77	63.2	50.2	75.2

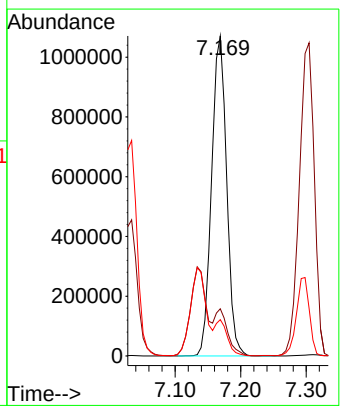


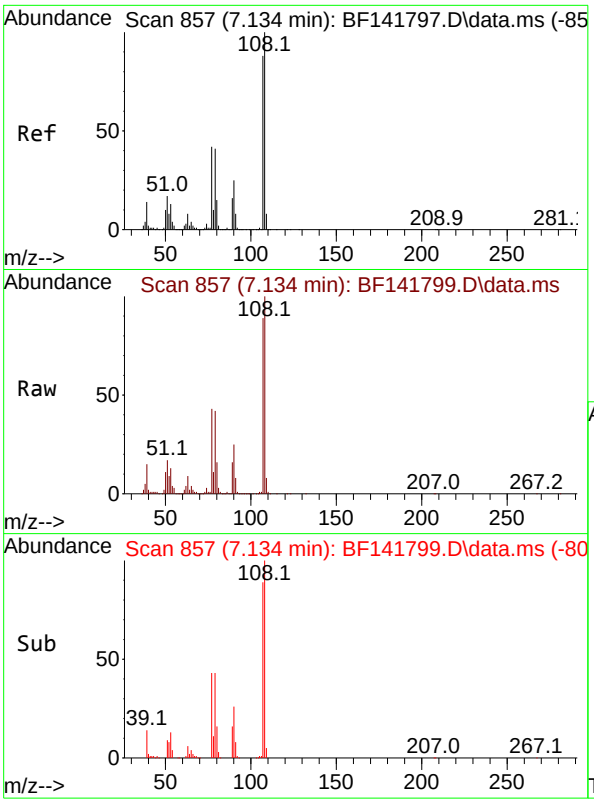


#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.838 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 45 Resp: 1706347

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	34.4
79	11.4	0.0	30.9



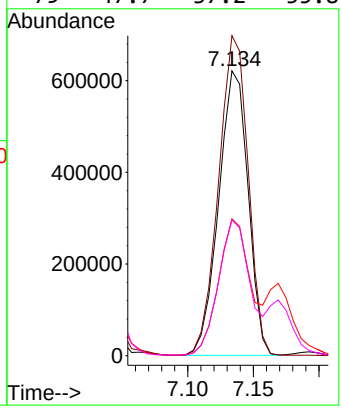


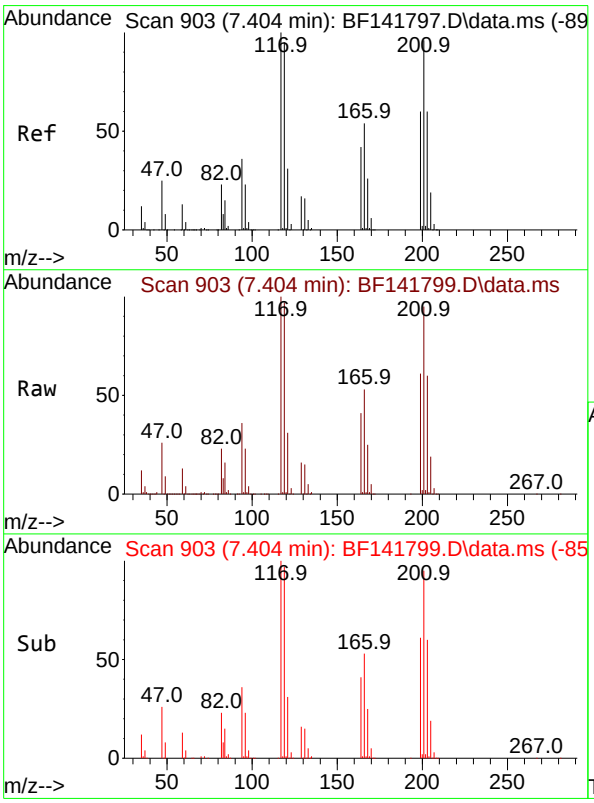
#17
2-Methylphenol
Concen: 58.177 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 968603

Ion	Ratio	Lower	Upper
107	100		
108	112.4	90.6	135.8
77	48.0	37.7	56.5
79	47.7	37.2	55.8

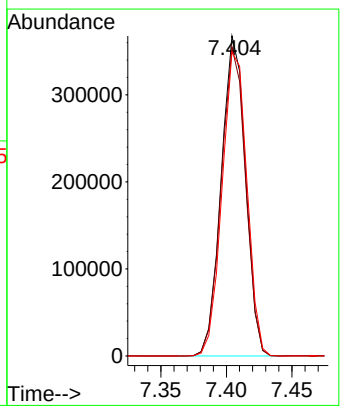


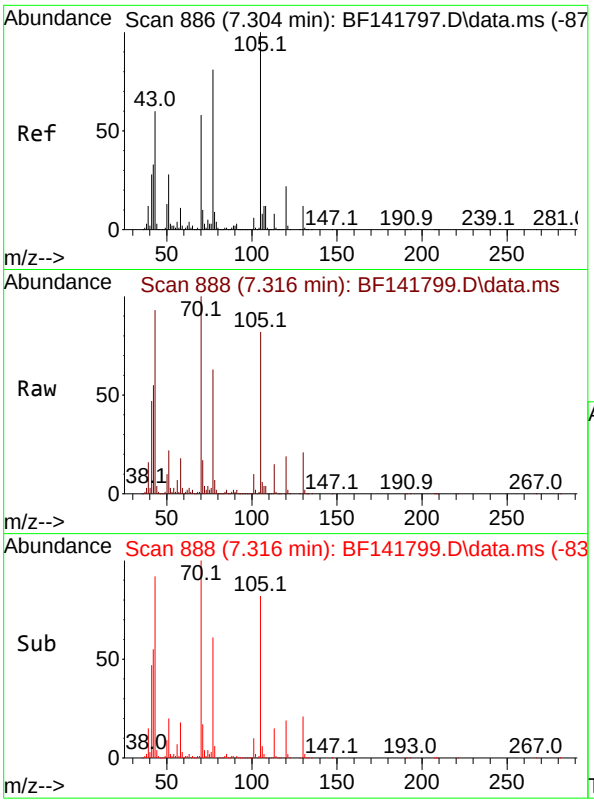


#18
Hexachloroethane
Concen: 58.163 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:117 Resp: 473809

Ion	Ratio	Lower	Upper
117	100		
119	96.5	75.8	113.8
201	95.0	76.7	115.1



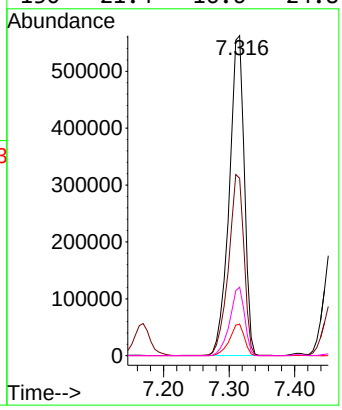


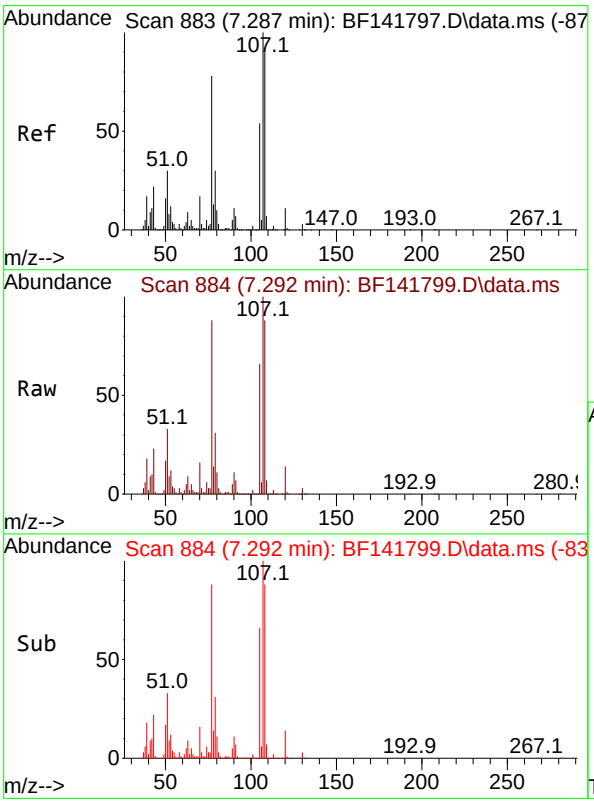
#19
n-Nitroso-di-n-propylamine
Concen: 56.387 ng
RT: 7.316 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 899573

Ion	Ratio	Lower	Upper
70	100		
42	55.5	45.4	68.0
101	9.9	7.8	11.8
130	21.4	16.6	24.8

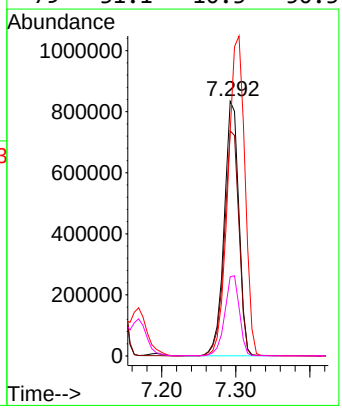


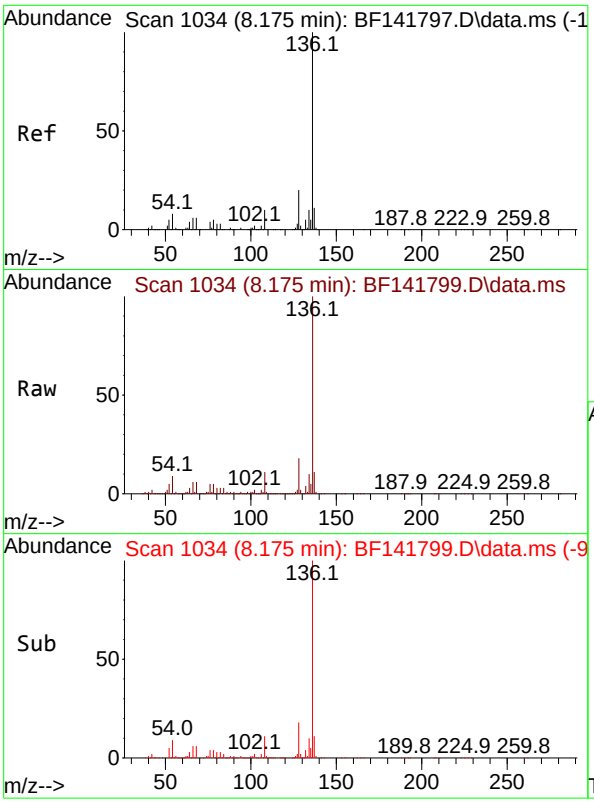


#20
3+4-Methylphenols
Concen: 55.188 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:107 Resp: 1144144

Ion	Ratio	Lower	Upper
107	100		
108	88.4	69.7	109.7
77	88.3	58.3	98.3
79	31.1	10.3	50.3



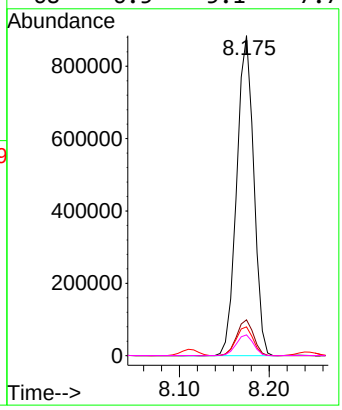


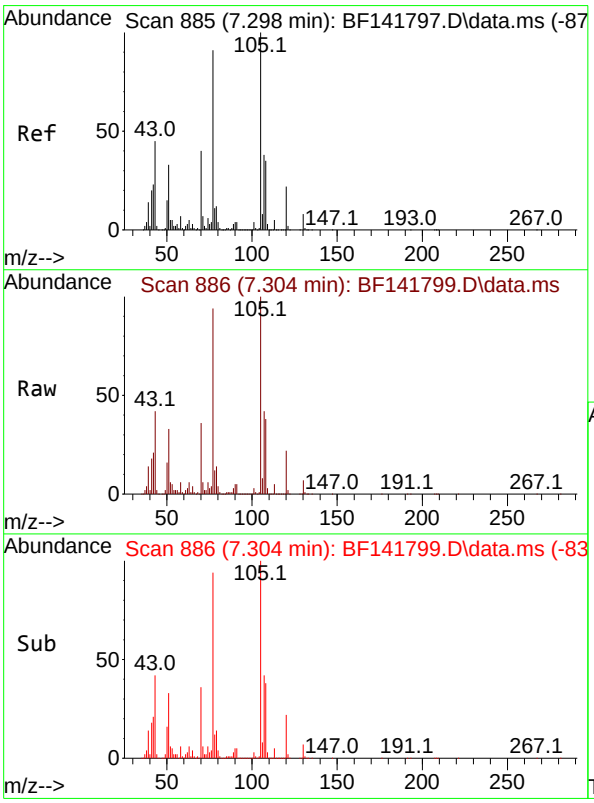
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 1163023

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.0	6.9	10.3
68	6.5	5.1	7.7

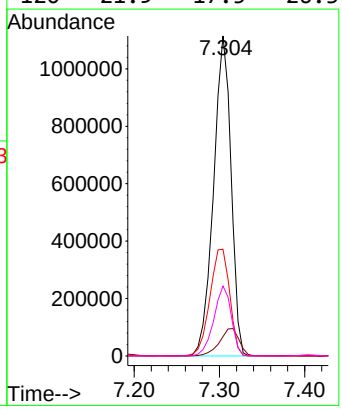


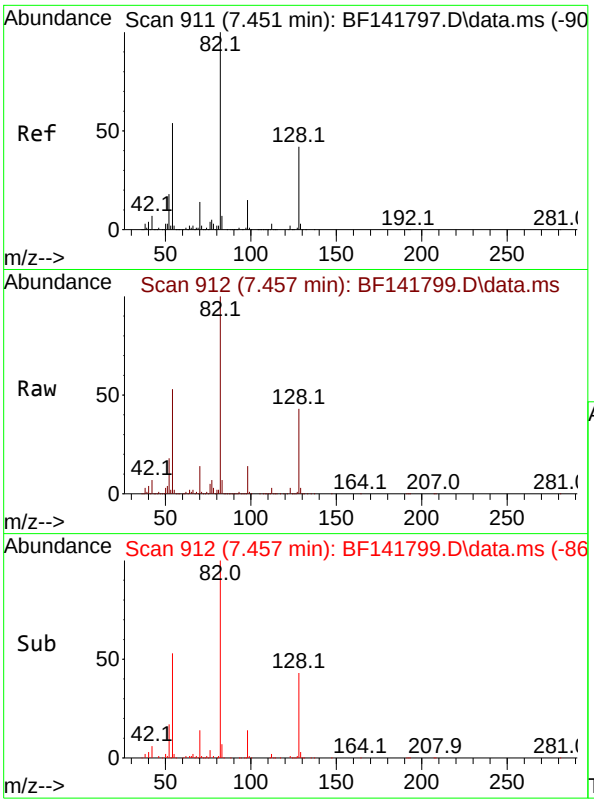


#22
Acetophenone
Concen: 56.070 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:105 Resp: 1588210

Ion	Ratio	Lower	Upper
105	100		
71	6.1	5.4	8.0
51	33.4	26.1	39.1
120	21.9	17.5	26.3



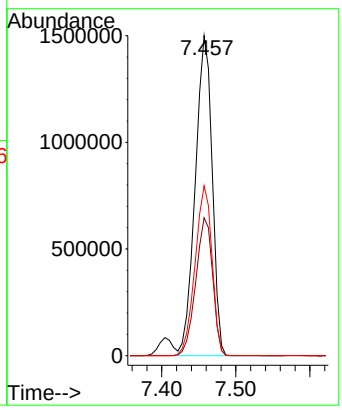


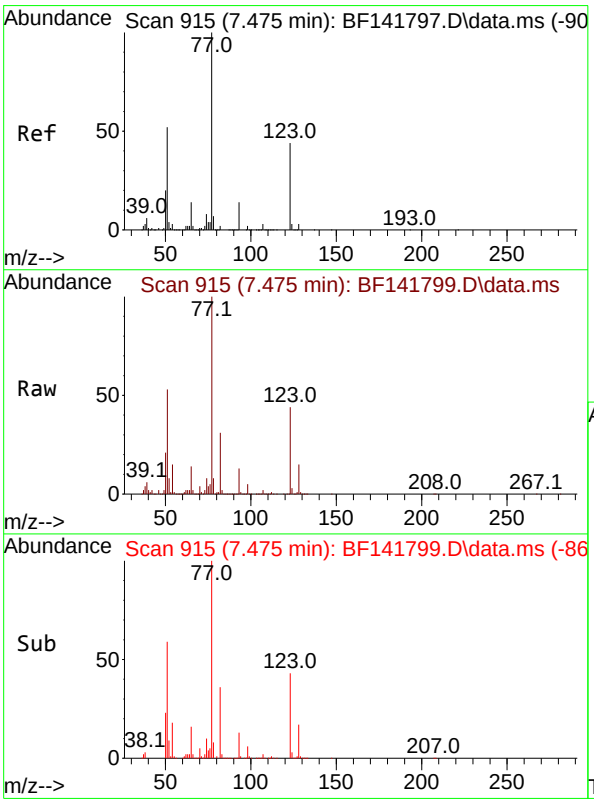
#23
Nitrobenzene-d5
Concen: 130.503 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 2374498

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.5	50.3
54	53.1	42.7	64.1

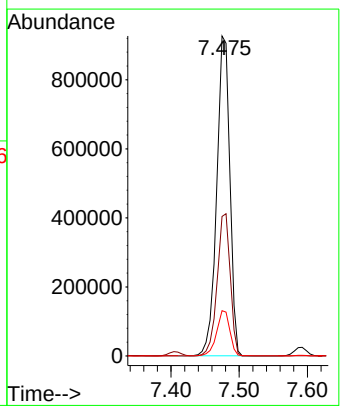


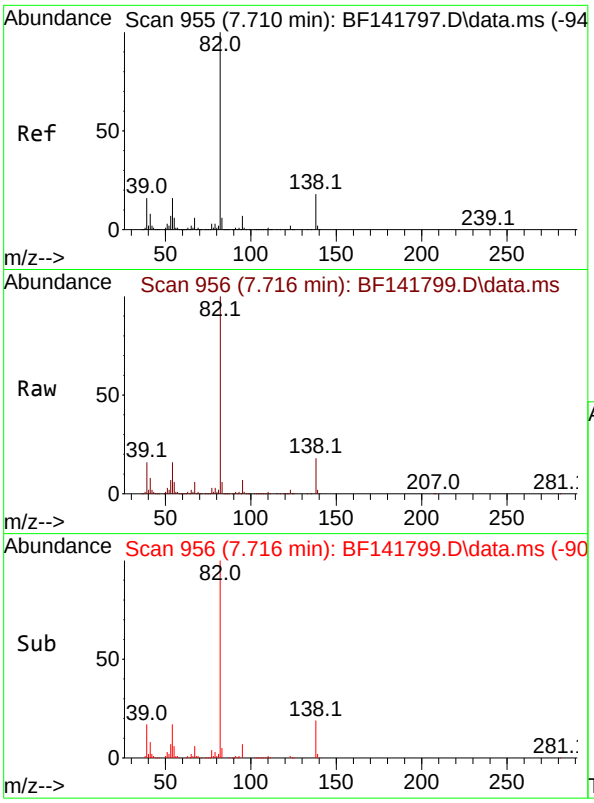


#24
Nitrobenzene
Concen: 63.867 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 77 Resp: 1244392

Ion	Ratio	Lower	Upper
77	100		
123	43.6	35.8	53.8
65	14.2	11.2	16.8



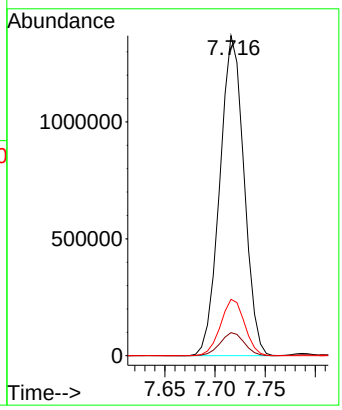


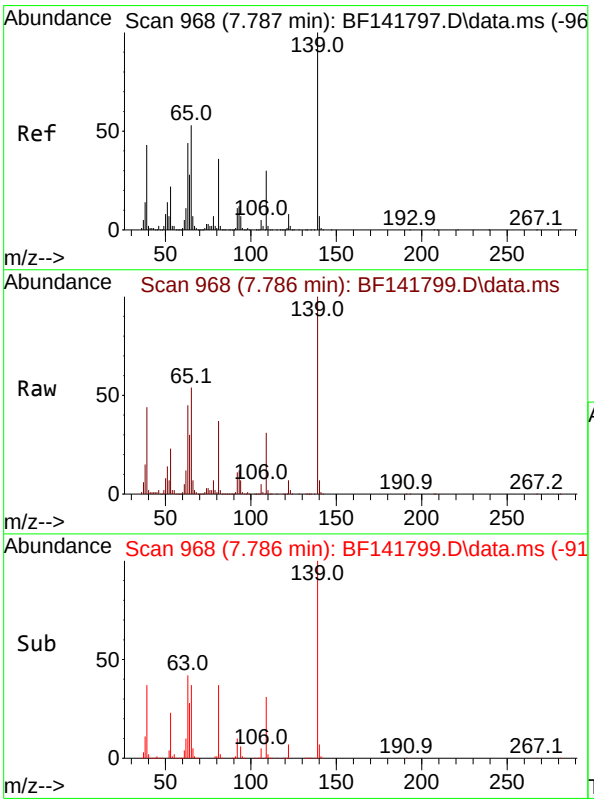
#25
Isophorone
Concen: 58.786 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 2297900

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	17.6	14.0	21.0

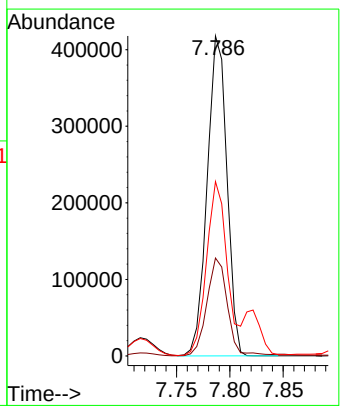


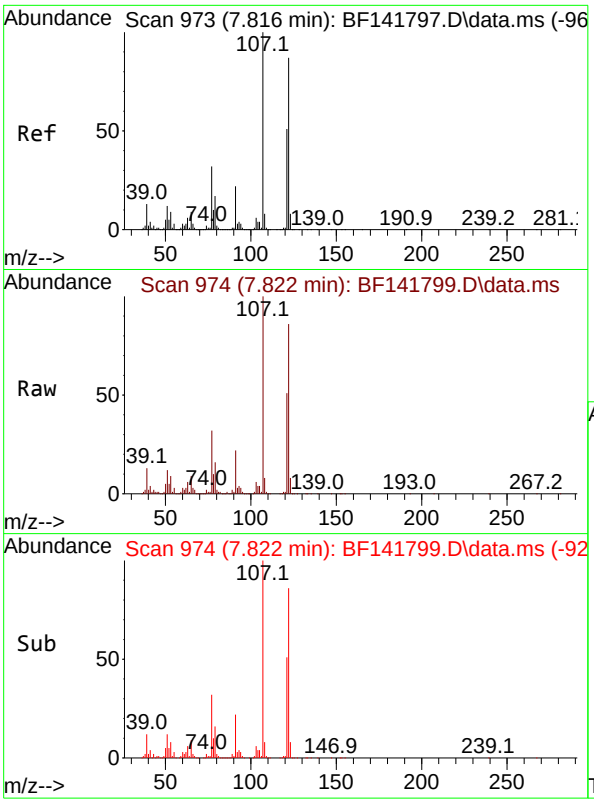


#26
2-Nitrophenol
Concen: 60.712 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:139 Resp: 540018

Ion	Ratio	Lower	Upper
139	100		
109	30.6	24.1	36.1
65	54.5	42.3	63.5



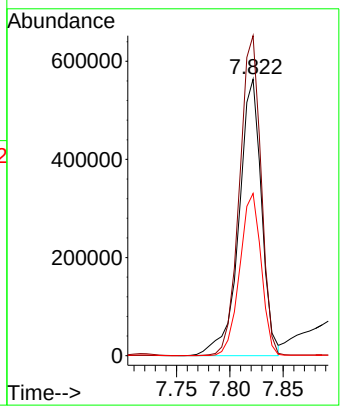


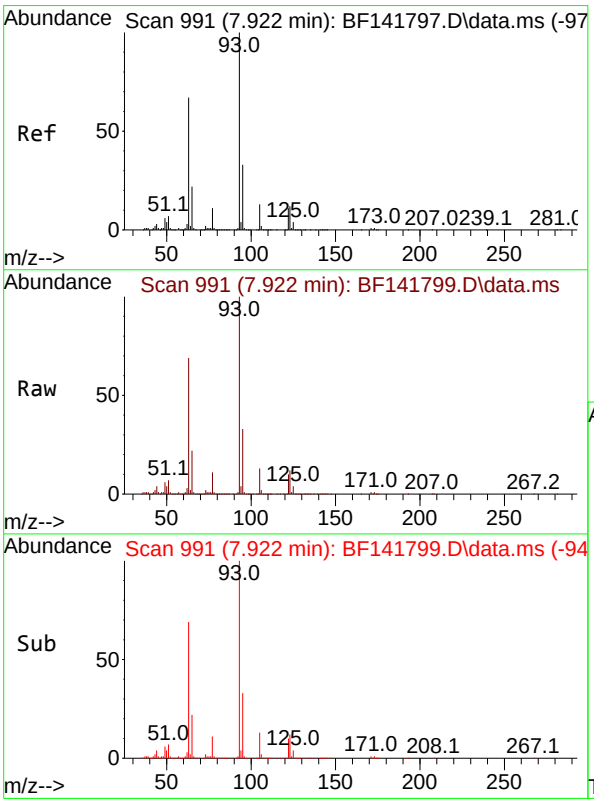
#27
2,4-Dimethylphenol
Concen: 57.912 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 832135

Ion	Ratio	Lower	Upper
122	100		
107	115.7	92.5	138.7
121	58.7	47.1	70.7

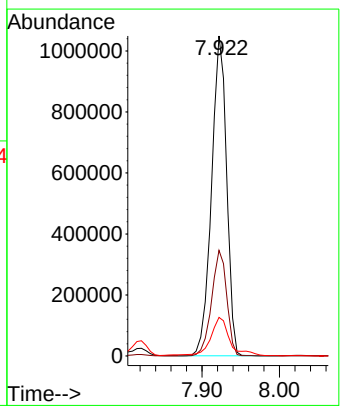


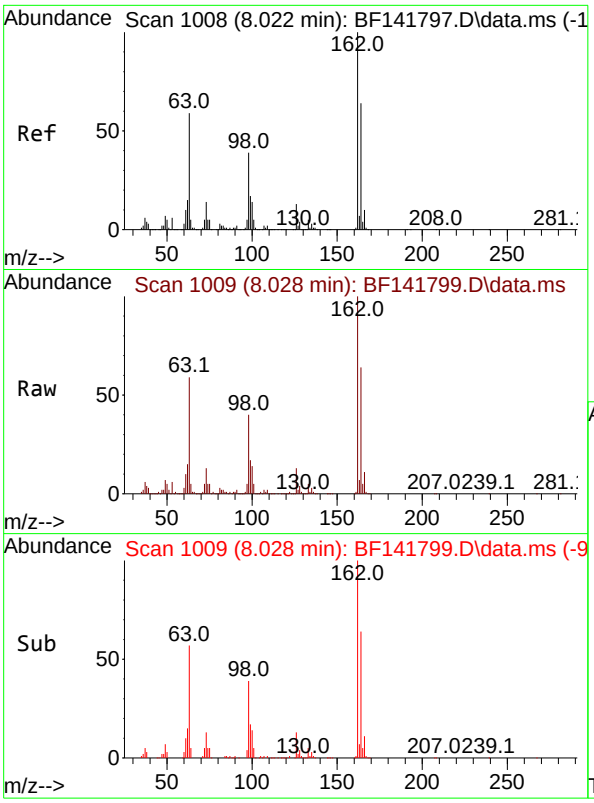


#28
bis(2-Chloroethoxy)methane
Concen: 57.094 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 93 Resp: 1423641

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.1	10.0	15.0



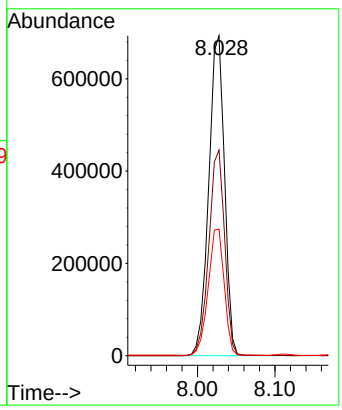


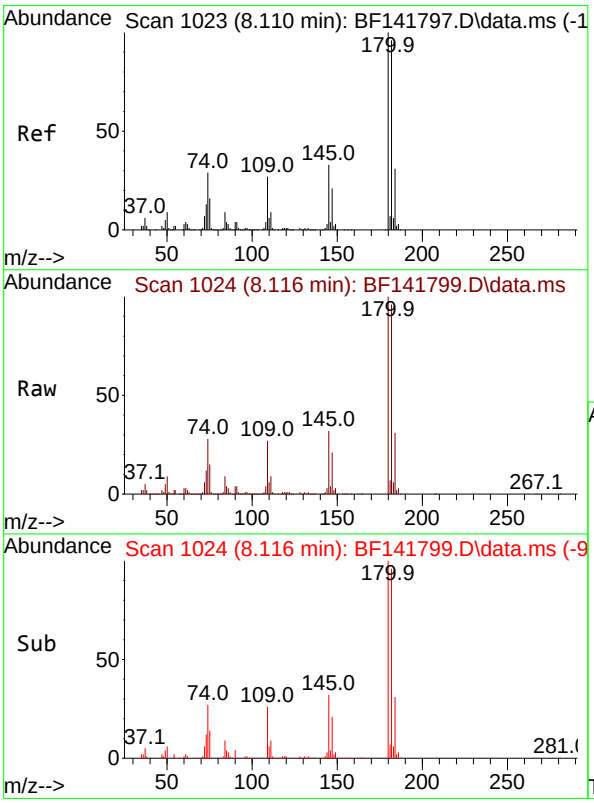
#29
2,4-Dichlorophenol
Concen: 59.211 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 981508

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.3	84.3
98	39.5	19.6	59.6

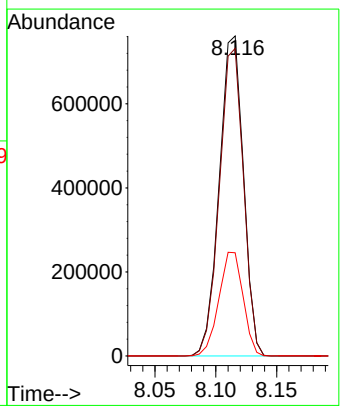


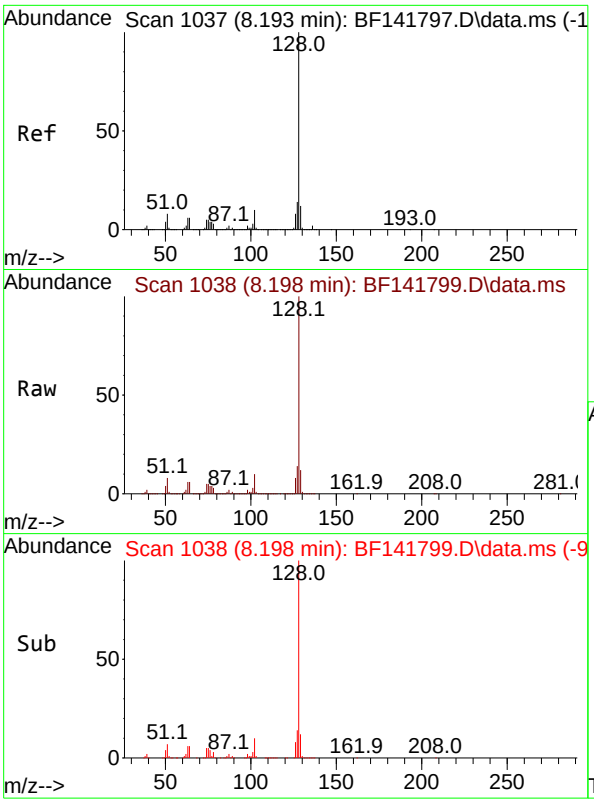


#30
1,2,4-Trichlorobenzene
Concen: 57.885 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:180 Resp: 1051434

Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.8	115.2
145	32.2	26.4	39.6



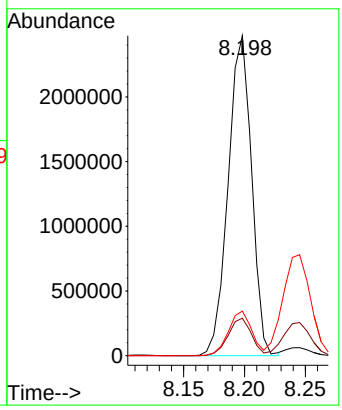


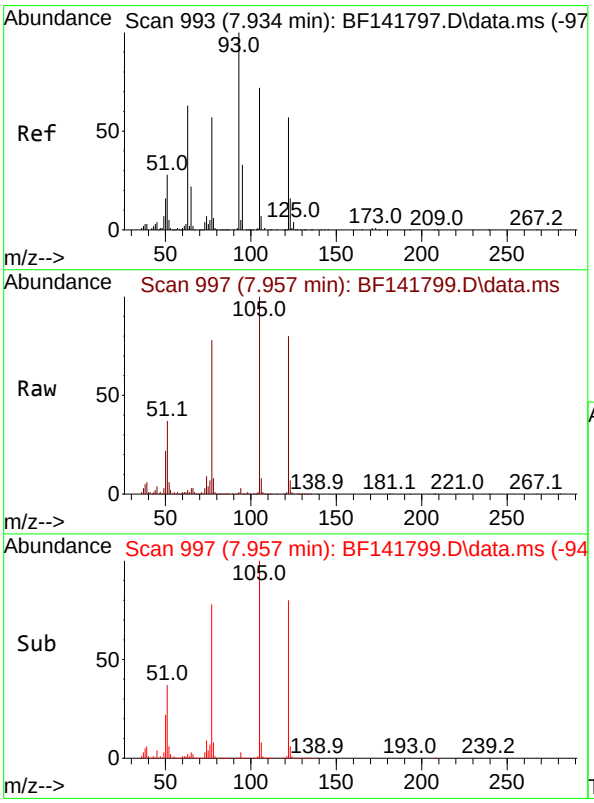
#31
Naphthalene
Concen: 55.427 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 3313144

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.2	13.8
127	13.9	11.0	16.4

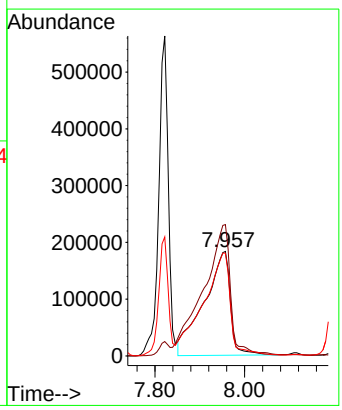


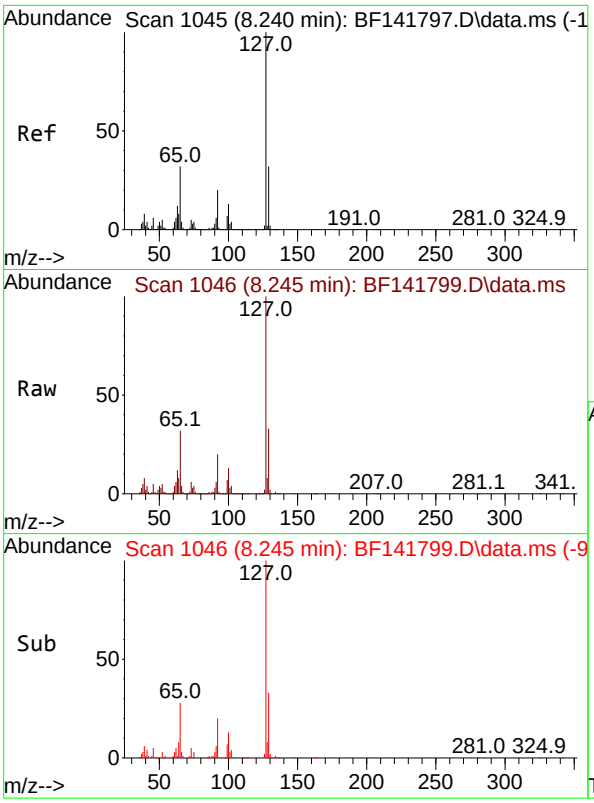


#32
Benzoic acid
Concen: 60.158 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.023 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:122 Resp: 749284

Ion	Ratio	Lower	Upper
122	100		
105	125.7	105.8	145.8
77	98.5	79.9	119.9



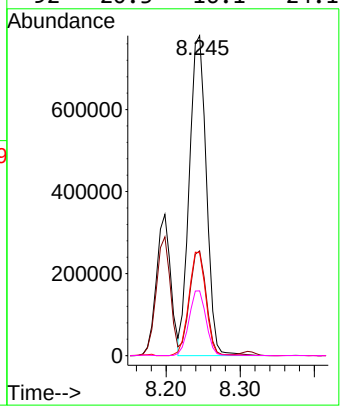


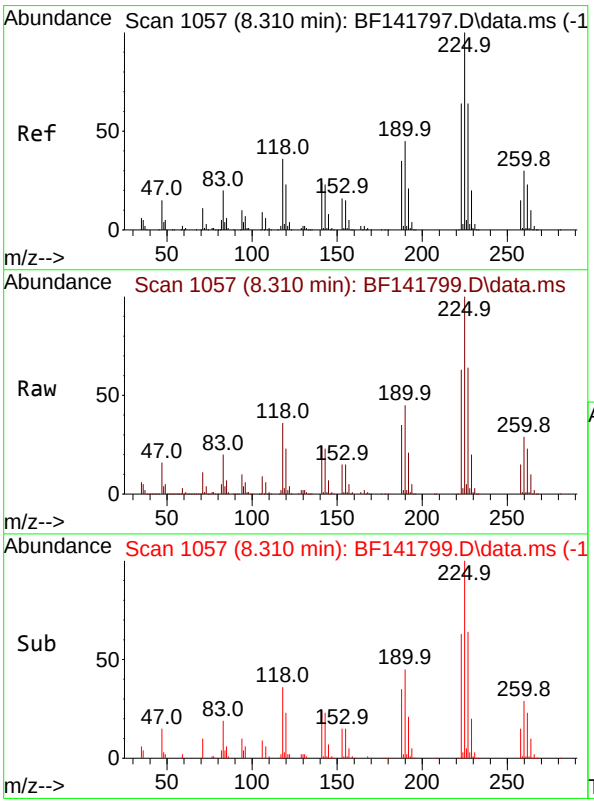
#33
4-Chloroaniline
Concen: 56.723 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 1243216

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.1	39.1
65	32.2	25.7	38.5
92	20.3	16.1	24.1

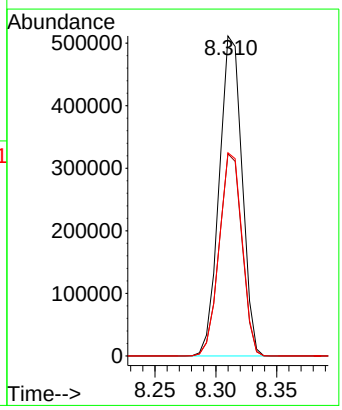


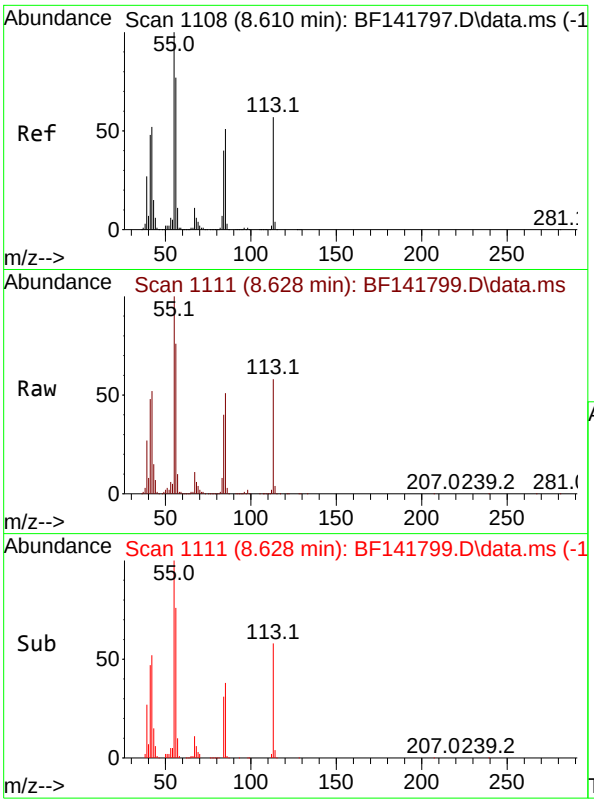


#34
Hexachlorobutadiene
Concen: 59.082 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:225 Resp: 666891

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.2
227	63.5	51.6	77.4



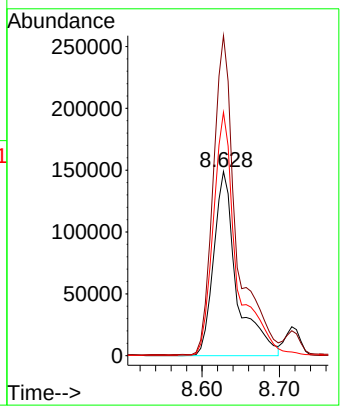


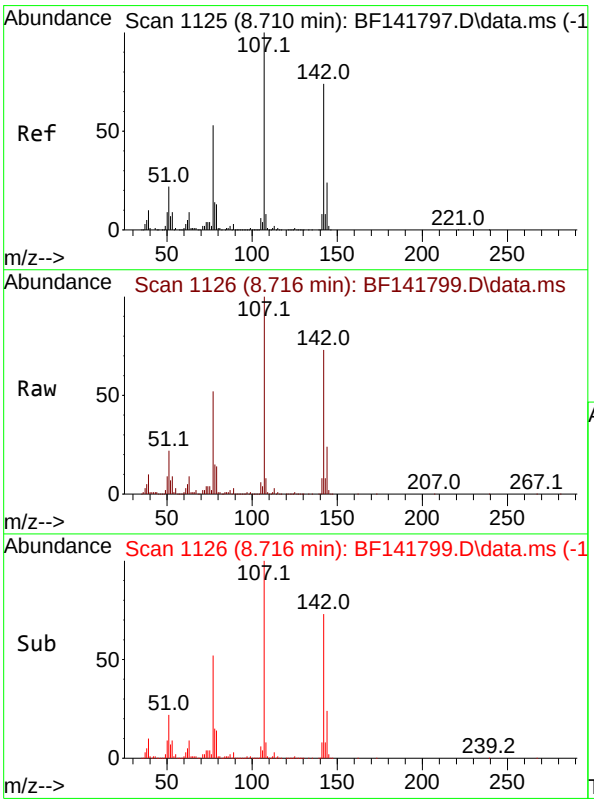
#35
Caprolactam
Concen: 60.671 ng
RT: 8.628 min Scan# 11
Delta R.T. 0.018 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 309453

Ion	Ratio	Lower	Upper
113	100		
55	173.8	155.6	195.6
56	132.2	114.6	154.6

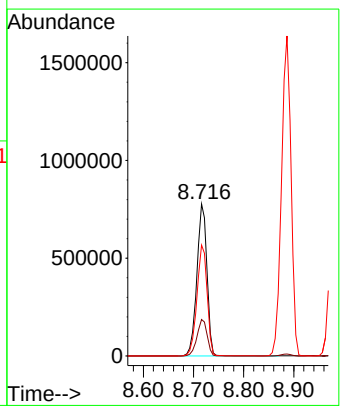


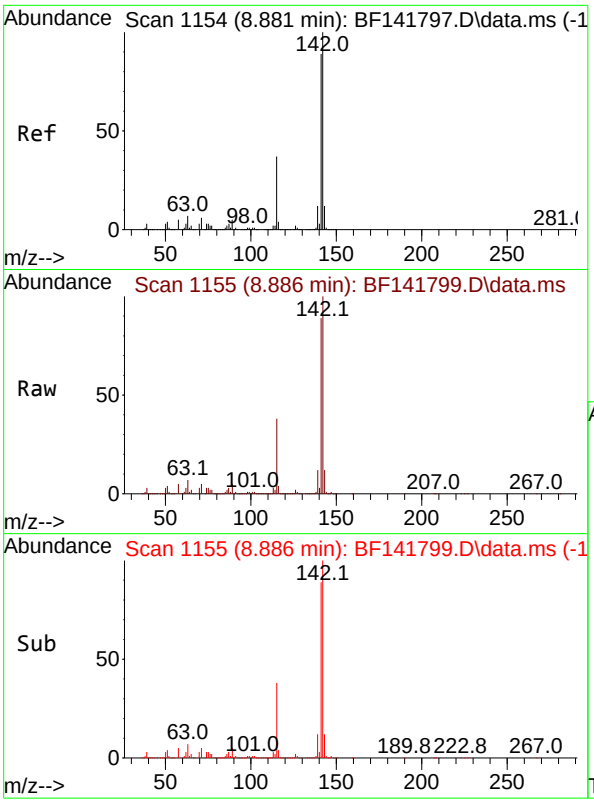


#36
4-Chloro-3-methylphenol
Concen: 58.783 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:107 Resp: 1082457

Ion	Ratio	Lower	Upper
107	100		
144	24.0	19.4	29.0
142	73.0	59.4	89.0



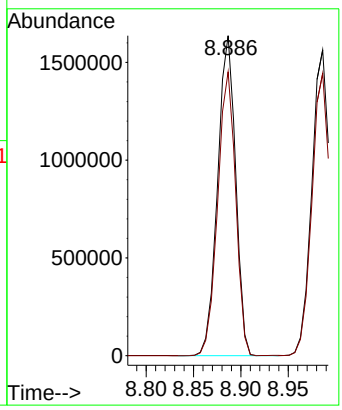


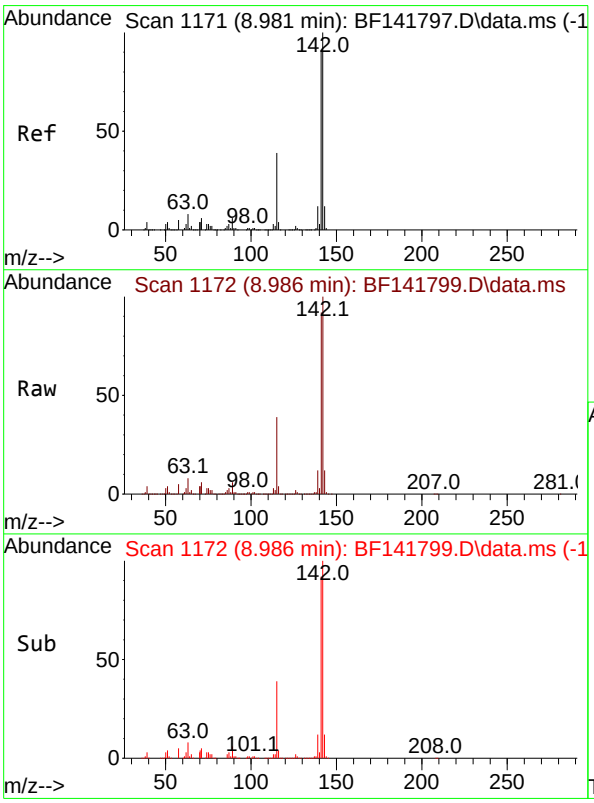
#37
2-Methylnaphthalene
Concen: 55.115 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 2160902

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.1	106.7

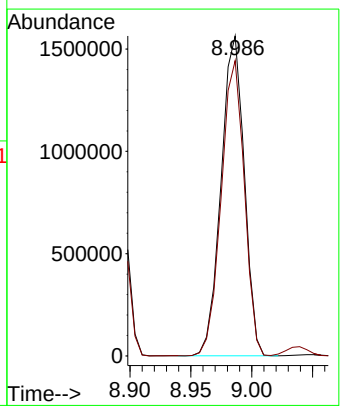


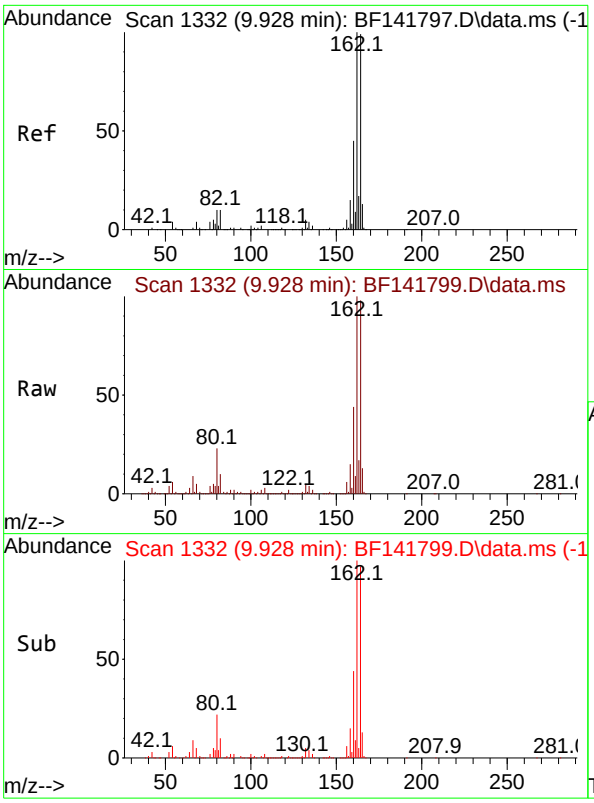


#38
1-Methylnaphthalene
Concen: 55.054 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:142 Resp: 2071154

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



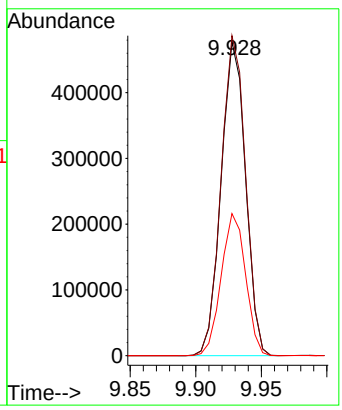


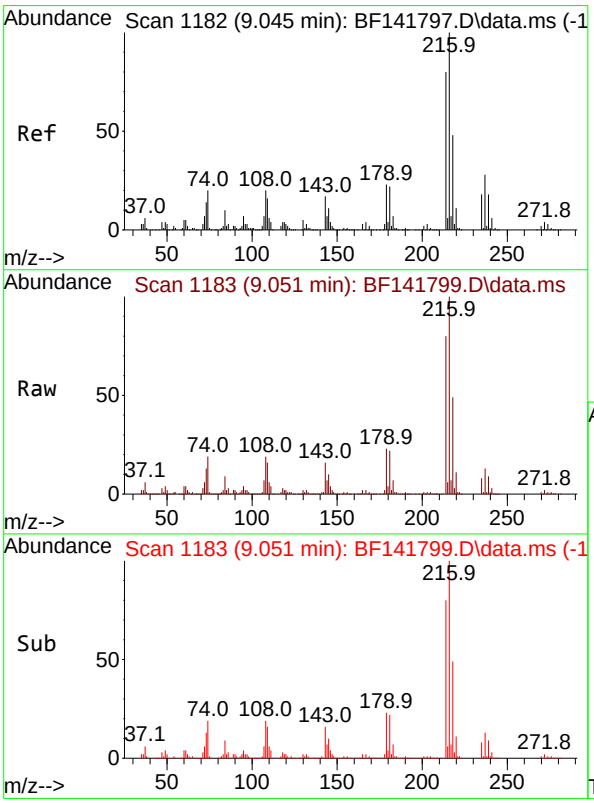
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 617087

Ion	Ratio	Lower	Upper
164	100		
162	102.0	80.6	120.8
160	45.3	36.3	54.5

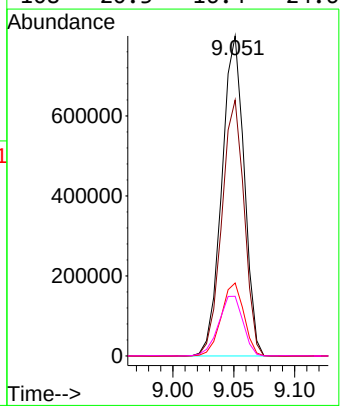


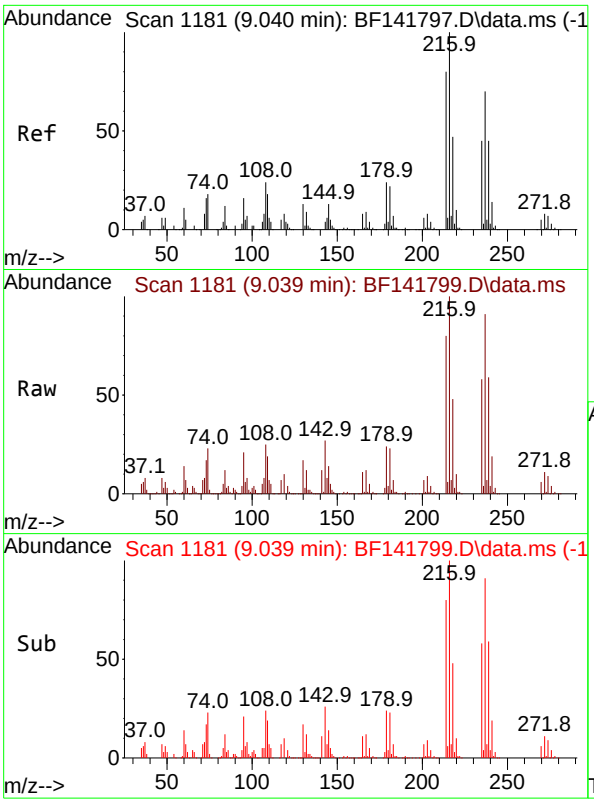


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.477 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:216 Resp: 1024373

Ion	Ratio	Lower	Upper
216	100		
214	79.8	63.5	95.3
179	23.0	18.1	27.1
108	20.3	16.4	24.6



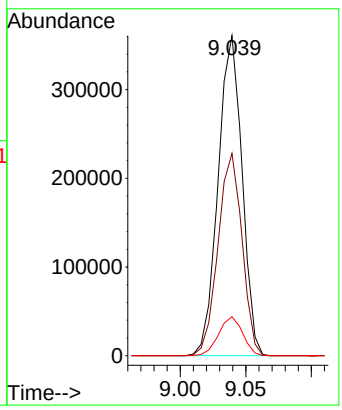


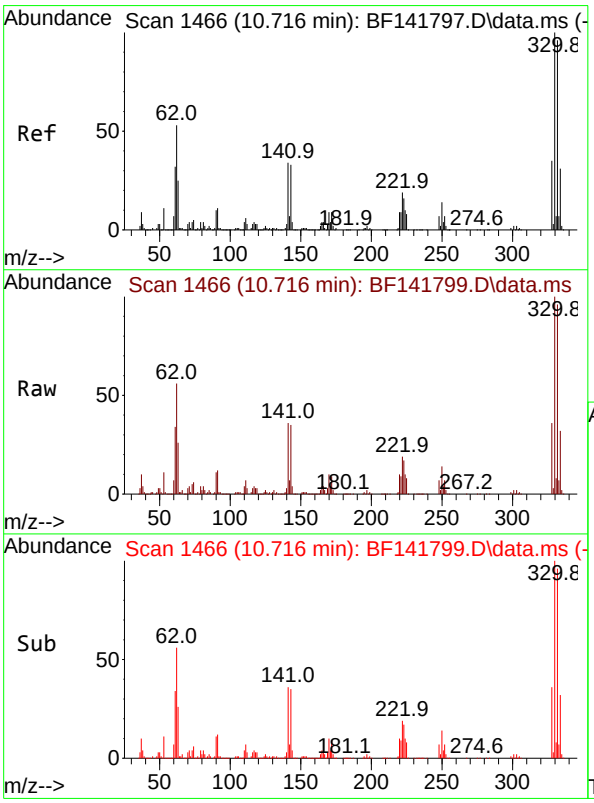
#41
Hexachlorocyclopentadiene
Concen: 61.586 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 458054

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.3	83.3
272	12.2	0.0	31.9

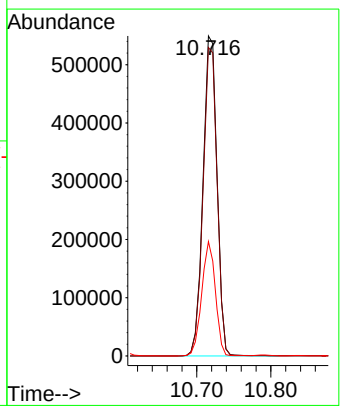


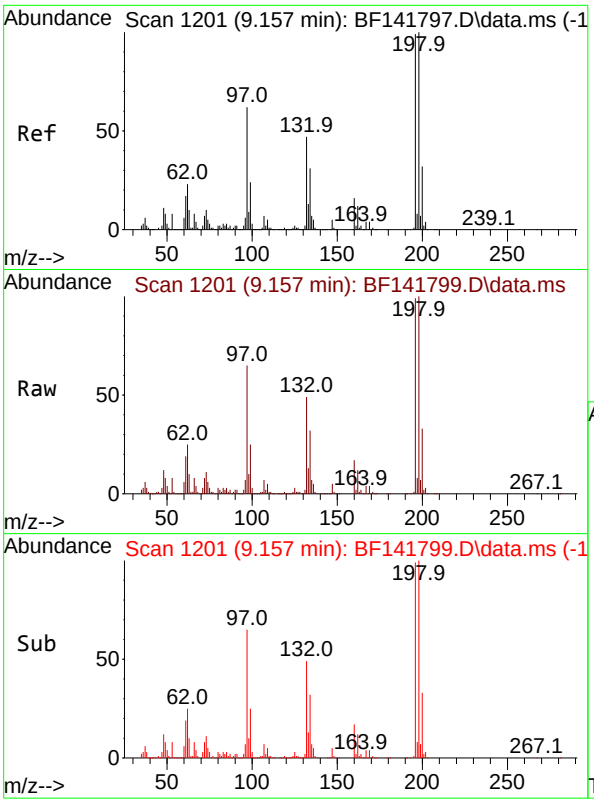


#42
2,4,6-Tribromophenol
Concen: 125.191 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:330 Resp: 725271

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.6	115.0
141	34.9	29.0	43.4



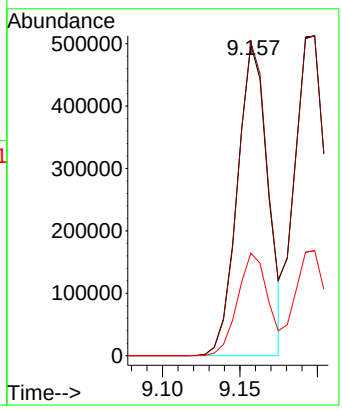


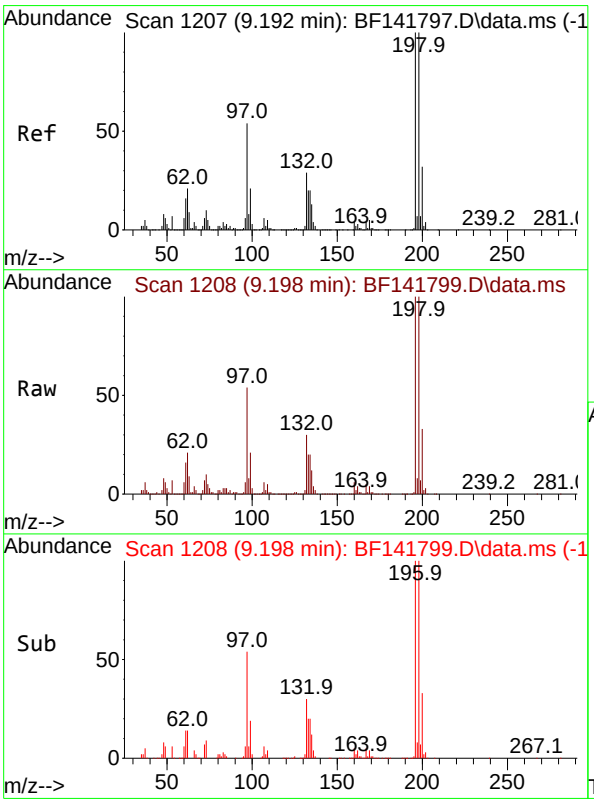
#43
2,4,6-Trichlorophenol
Concen: 59.220 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 681760

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.4	120.6
200	33.0	25.7	38.5

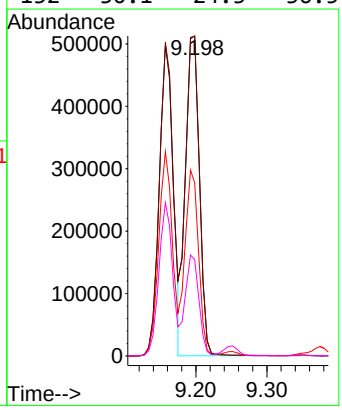


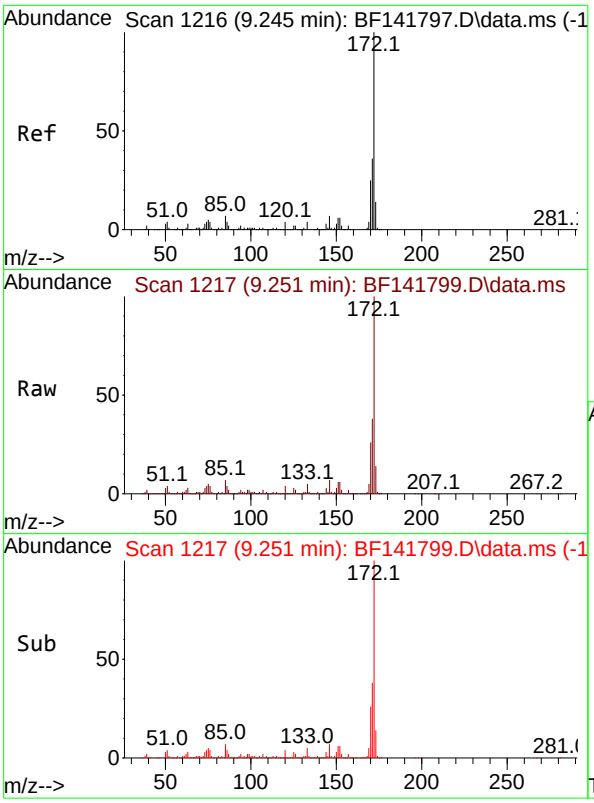


#44
2,4,5-Trichlorophenol
Concen: 61.725 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:196 Resp: 703662

Ion	Ratio	Lower	Upper
196	100		
198	100.1	79.7	119.5
97	54.1	44.2	66.2
132	30.1	24.3	36.5



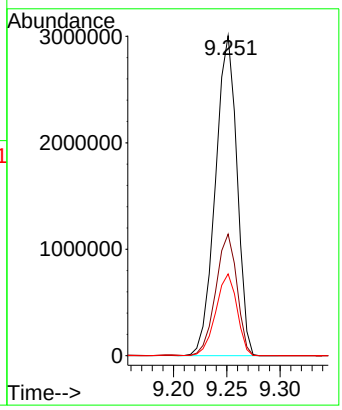


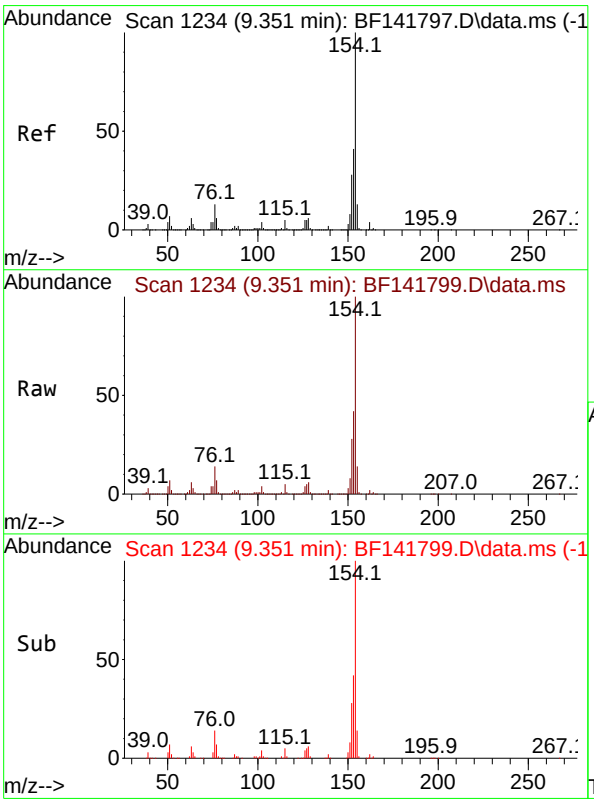
#45
2-Fluorobiphenyl
Concen: 109.742 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 4223426

Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.2	43.8
170	25.5	19.7	29.5

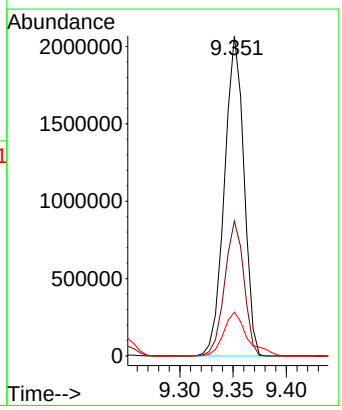


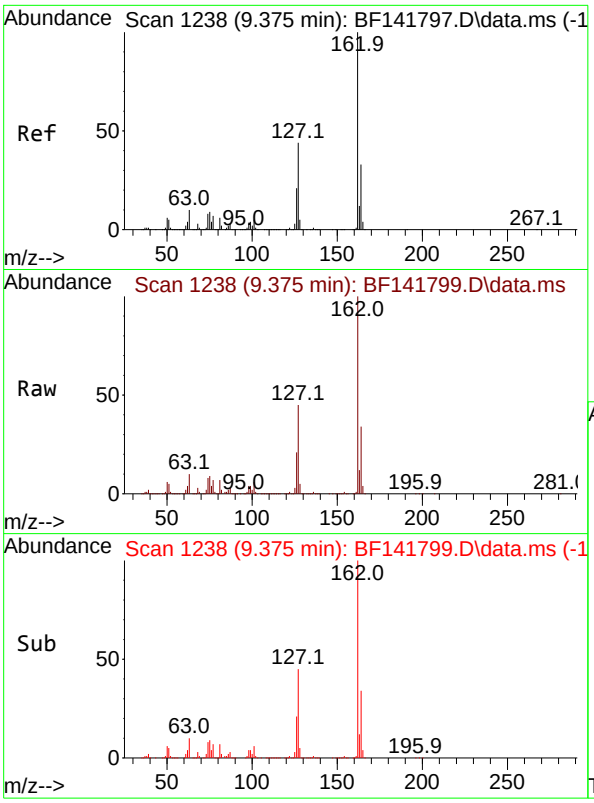


#46
1,1'-Biphenyl
Concen: 55.911 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:154 Resp: 2626139

Ion	Ratio	Lower	Upper
154	100		
153	42.2	21.4	61.4
76	13.7	0.0	33.4



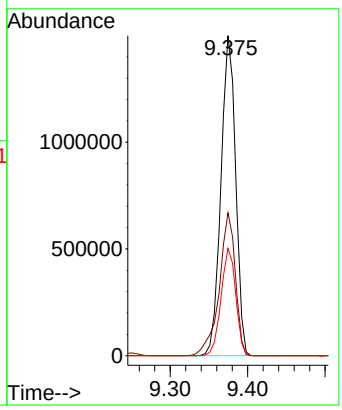


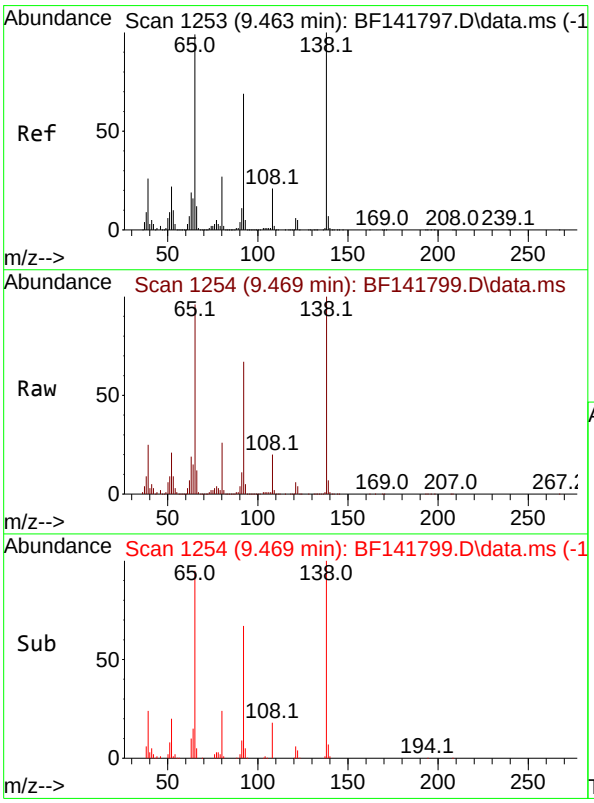
#47
2-Chloronaphthalene
Concen: 57.187 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1982513

Ion	Ratio	Lower	Upper
162	100		
127	44.6	35.0	52.6
164	33.5	26.6	40.0

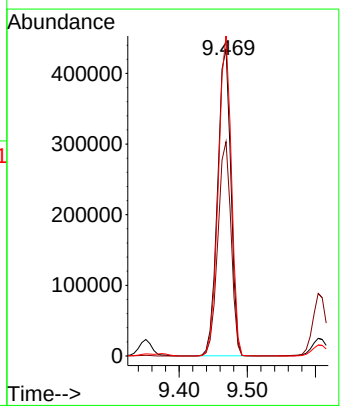


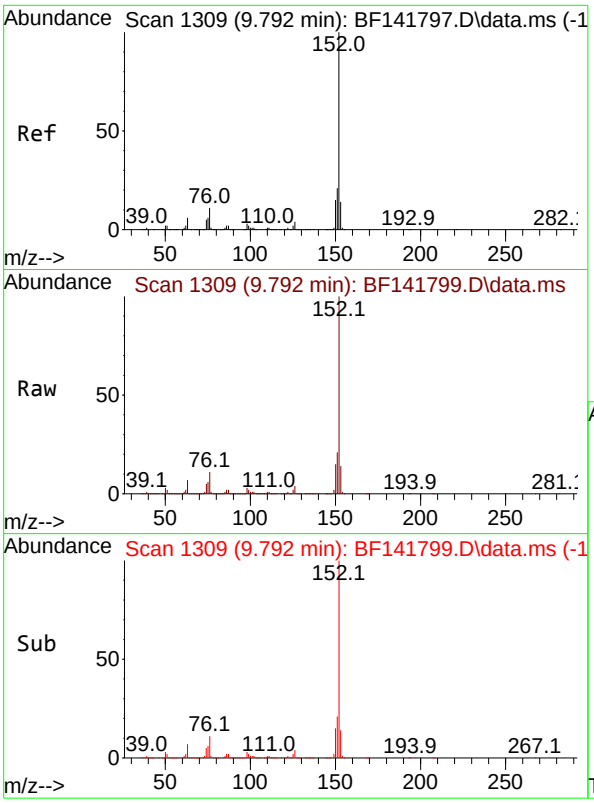


#48
2-Nitroaniline
Concen: 60.902 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion: 65 Resp: 590092

Ion	Ratio	Lower	Upper
65	100		
92	69.8	55.7	83.5
138	104.2	80.6	121.0



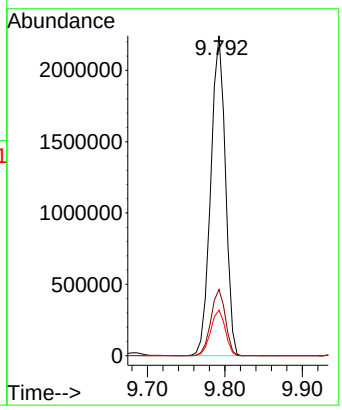


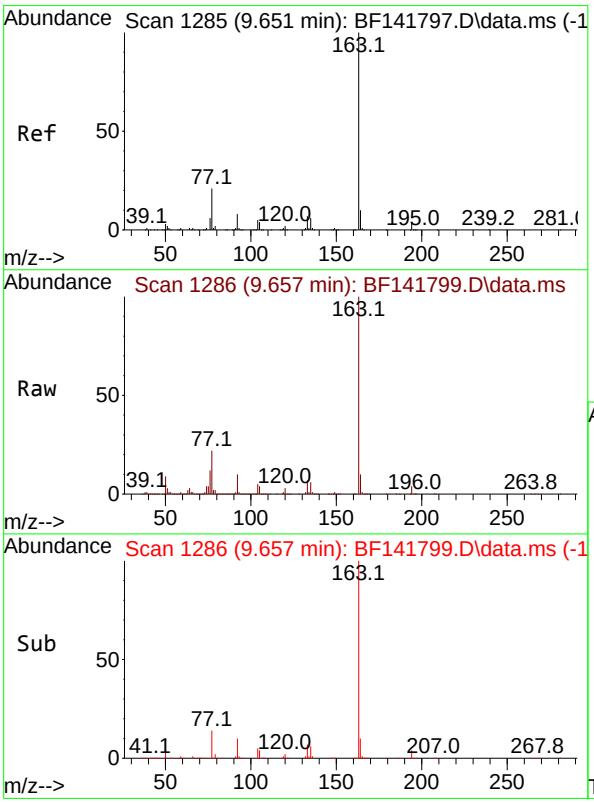
#49
Acenaphthylene
Concen: 56.845 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 2954653

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	24.8
153	14.3	11.2	16.8

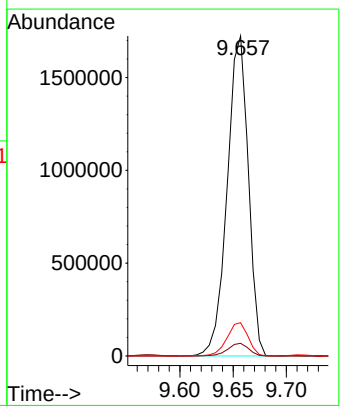


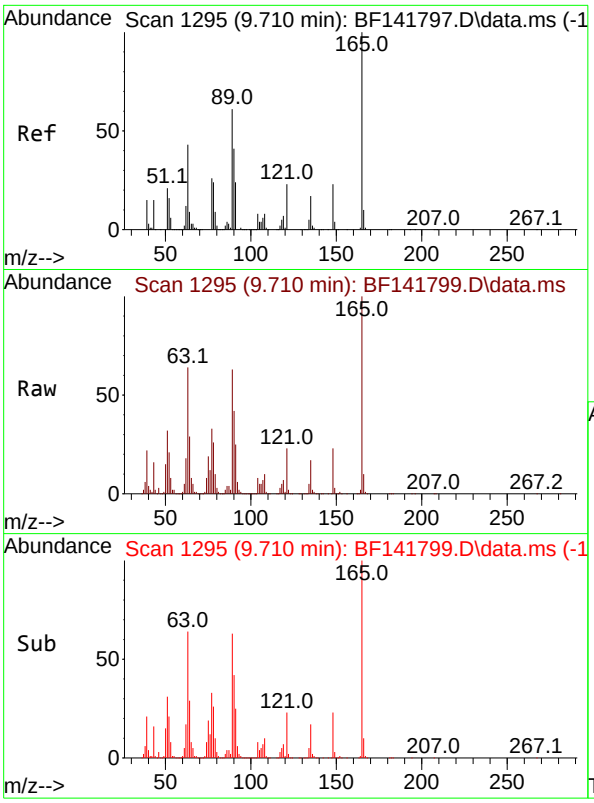


#50
Dimethylphthalate
Concen: 57.581 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:163 Resp: 2379542

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.4	8.4	12.6



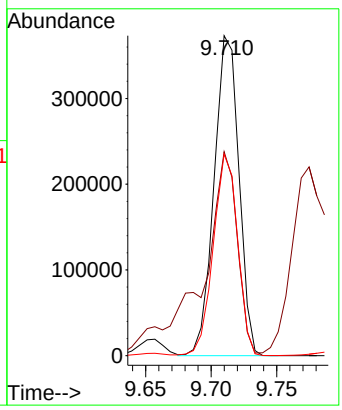


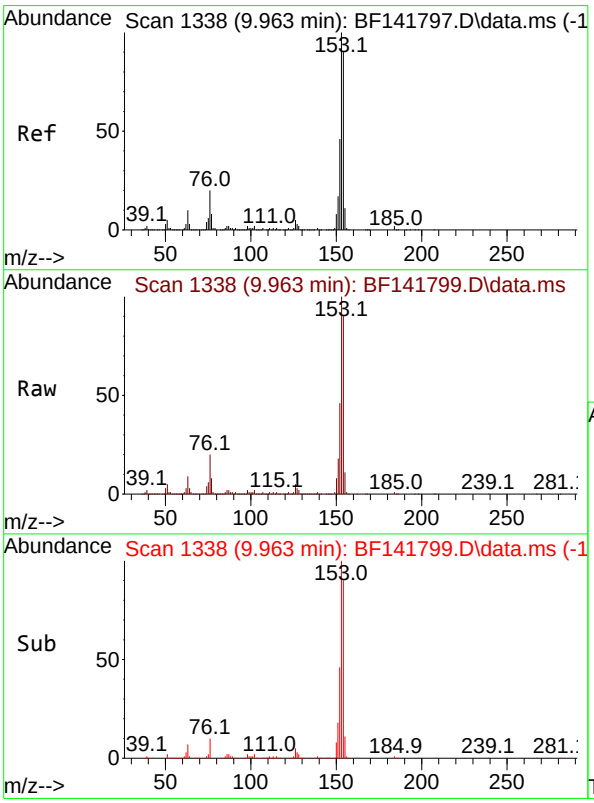
#51
2,6-Dinitrotoluene
Concen: 61.325 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 491402

Ion	Ratio	Lower	Upper
165	100		
63	63.8	49.5	74.3
89	63.0	49.0	73.4

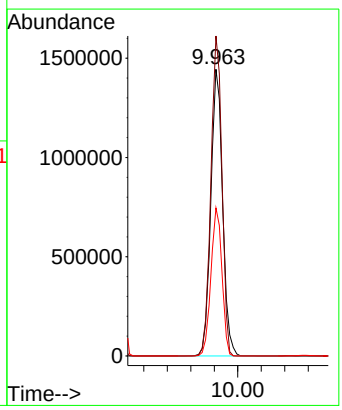


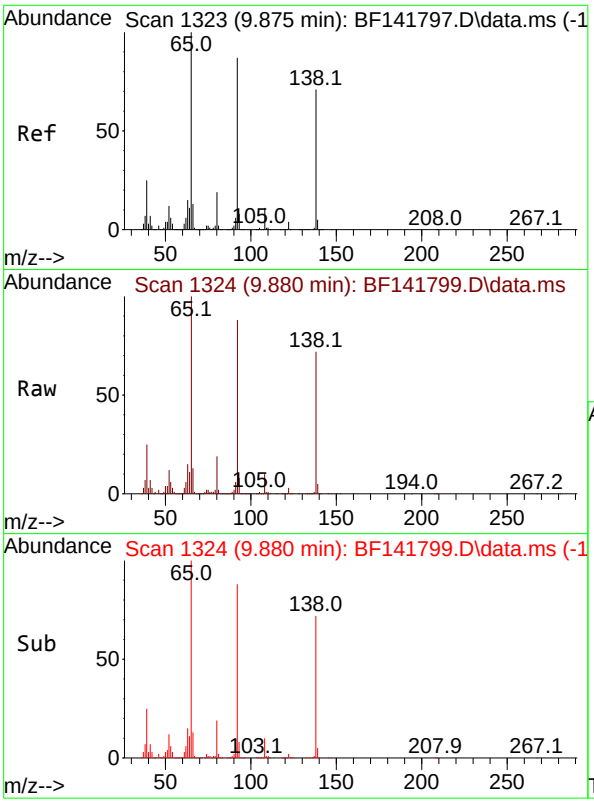


#52
Acenaphthene
Concen: 57.211 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:154 Resp: 2006502

Ion	Ratio	Lower	Upper
154	100		
153	111.6	88.7	133.1
152	51.6	40.9	61.3



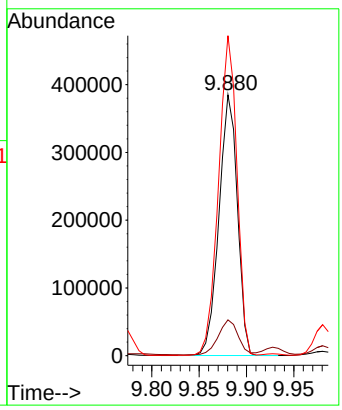


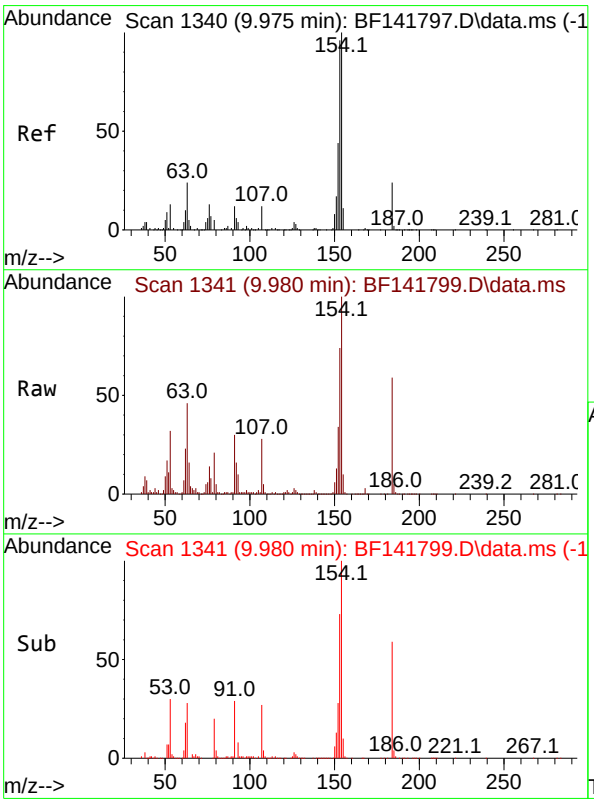
#53
3-Nitroaniline
Concen: 61.078 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 521575

Ion	Ratio	Lower	Upper
138	100		
108	13.7	12.7	19.1
92	122.7	97.9	146.9

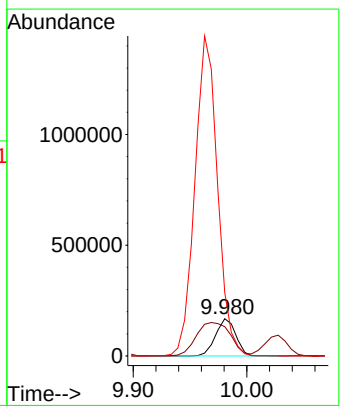


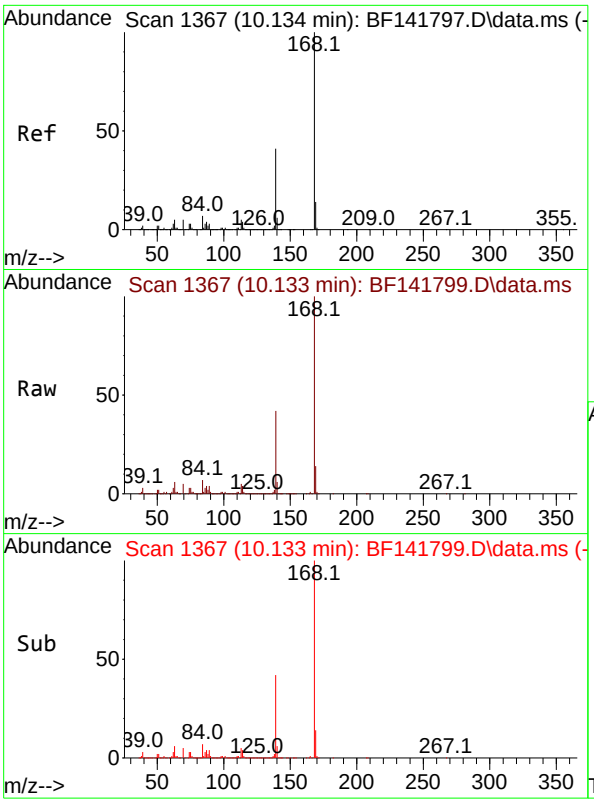


#54
2,4-Dinitrophenol
Concen: 62.312 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:184 Resp: 207307

Ion	Ratio	Lower	Upper
184	100		
63	78.8	79.0	118.6#
154	169.7	335.8	503.8#



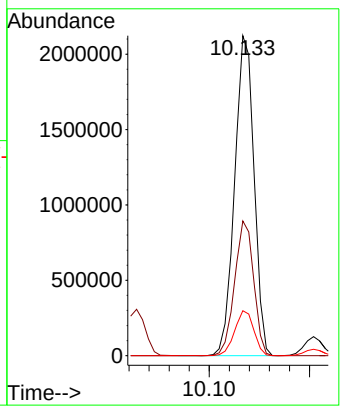


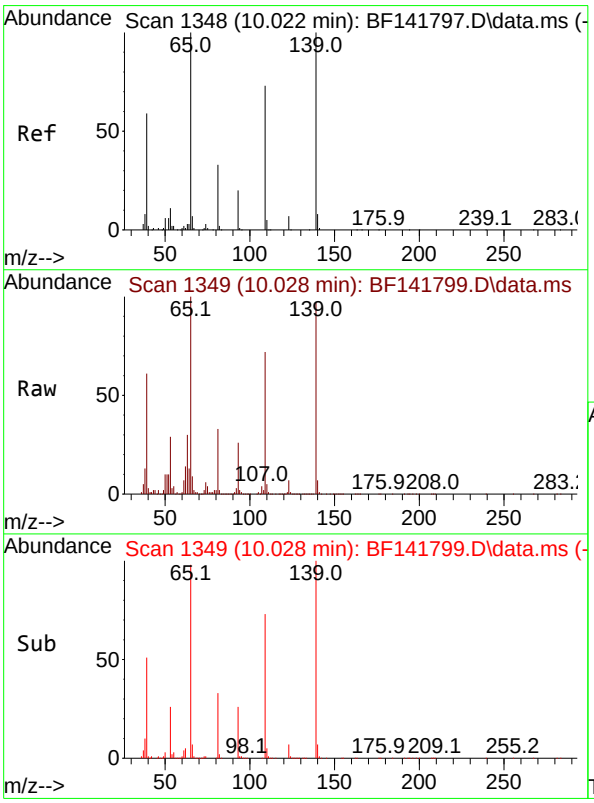
#55
Dibenzofuran
Concen: 55.911 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 2854091

Ion	Ratio	Lower	Upper
168	100		
139	42.1	32.9	49.3
169	14.1	11.1	16.7

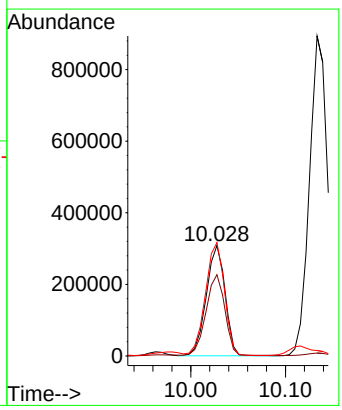


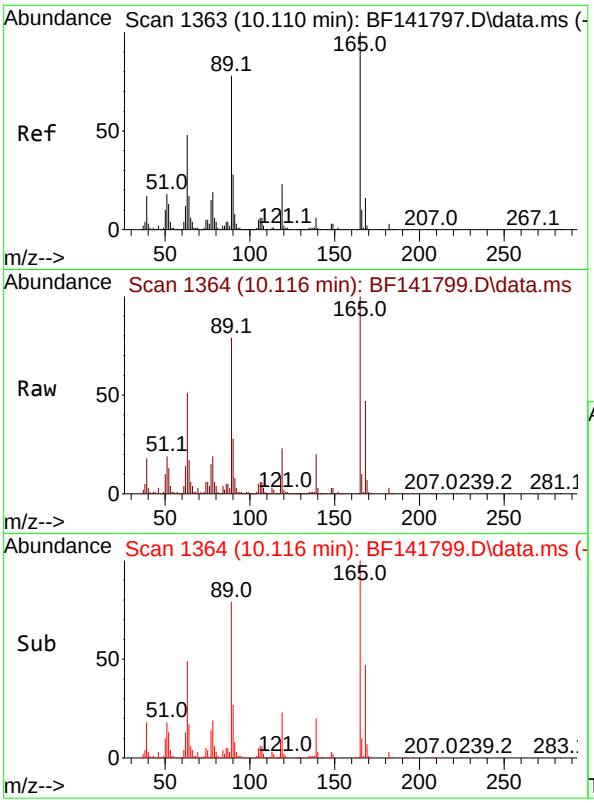


#56
4-Nitrophenol
Concen: 69.564 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:139 Resp: 424581

Ion	Ratio	Lower	Upper
139	100		
109	73.6	53.4	93.4
65	102.7	82.1	122.1



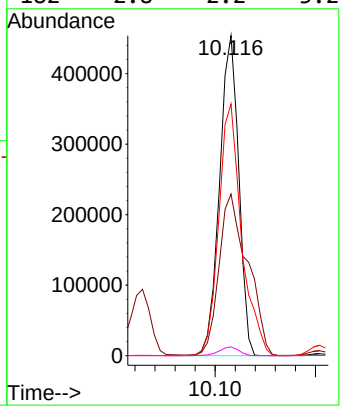


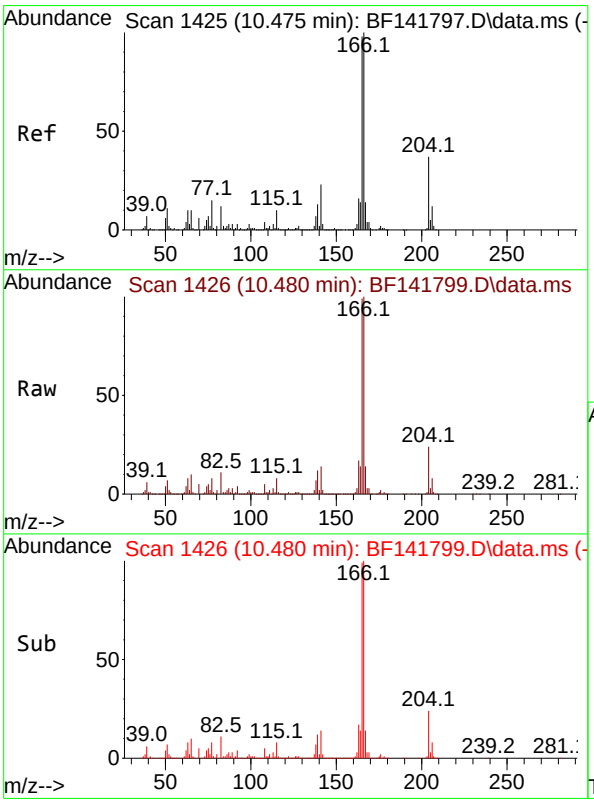
#57
2,4-Dinitrotoluene
Concen: 61.246 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 601539

Ion	Ratio	Lower	Upper
165	100		
63	50.5	38.8	58.2
89	78.7	62.6	94.0
182	2.8	2.2	3.2

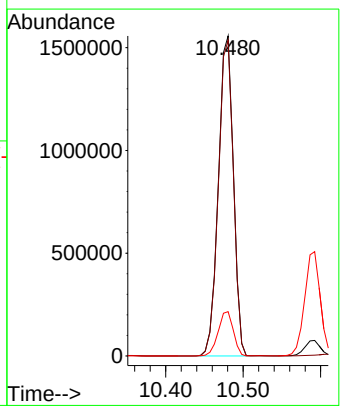


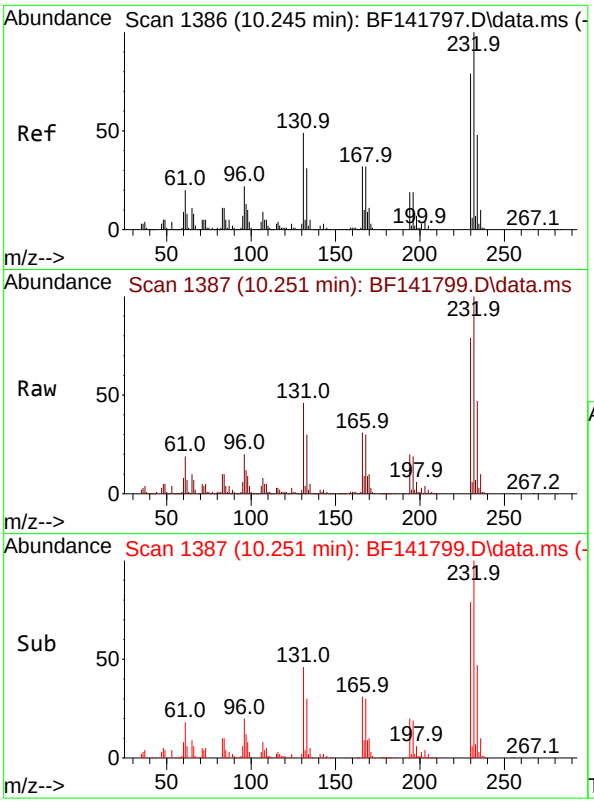


#58
Fluorene
Concen: 54.917 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:166 Resp: 2099887

Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.6	117.8
167	13.9	11.0	16.4



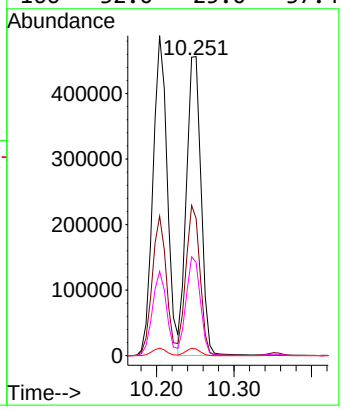


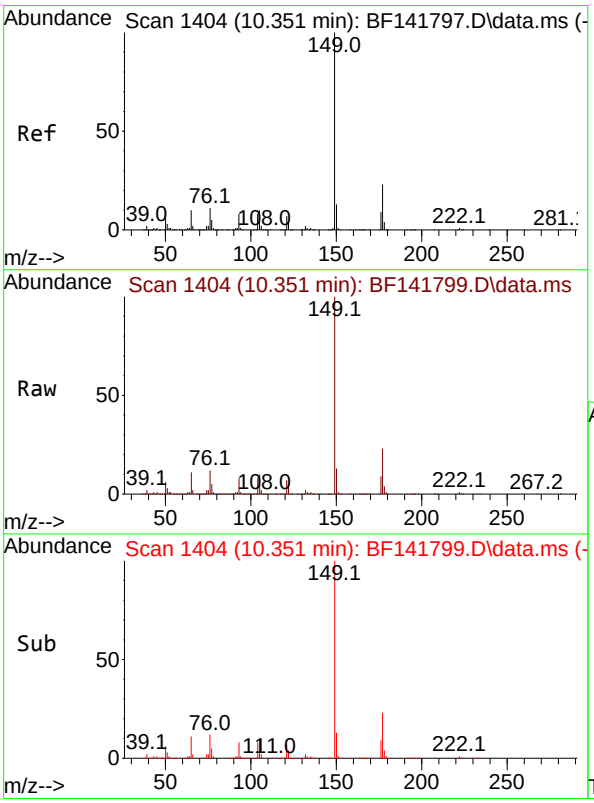
#59
2,3,4,6-Tetrachlorophenol
Concen: 60.159 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 596455

Ion	Ratio	Lower	Upper
232	100		
131	47.9	37.8	56.8
130	2.4	2.0	3.0
166	32.0	25.0	37.4

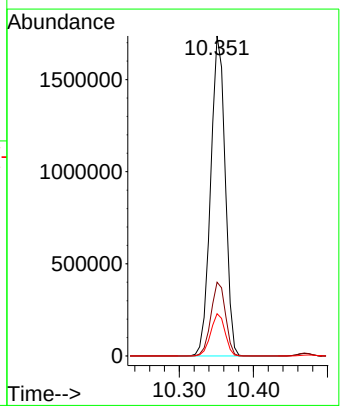


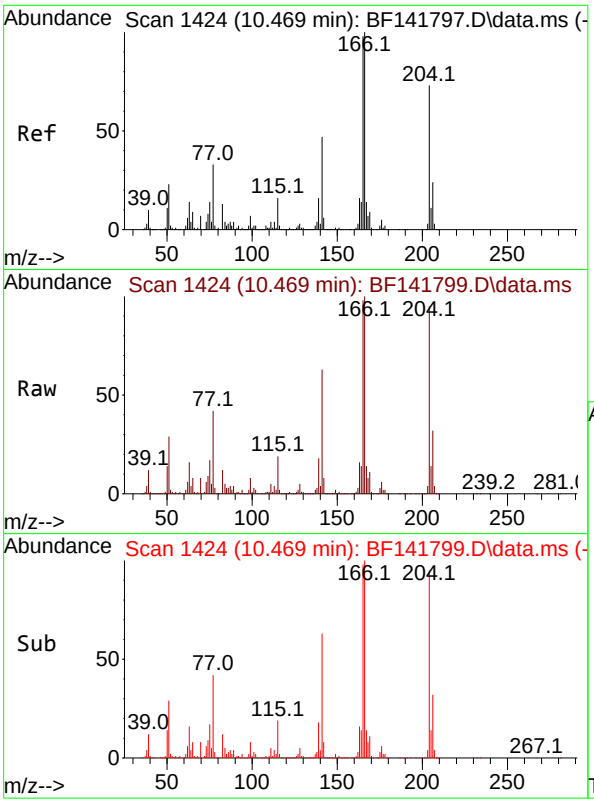


#60
Diethylphthalate
Concen: 56.972 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 2360216

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.3	27.5
150	13.2	10.3	15.5



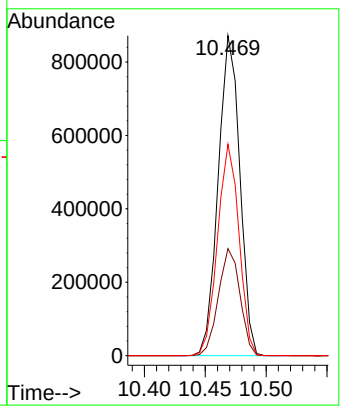


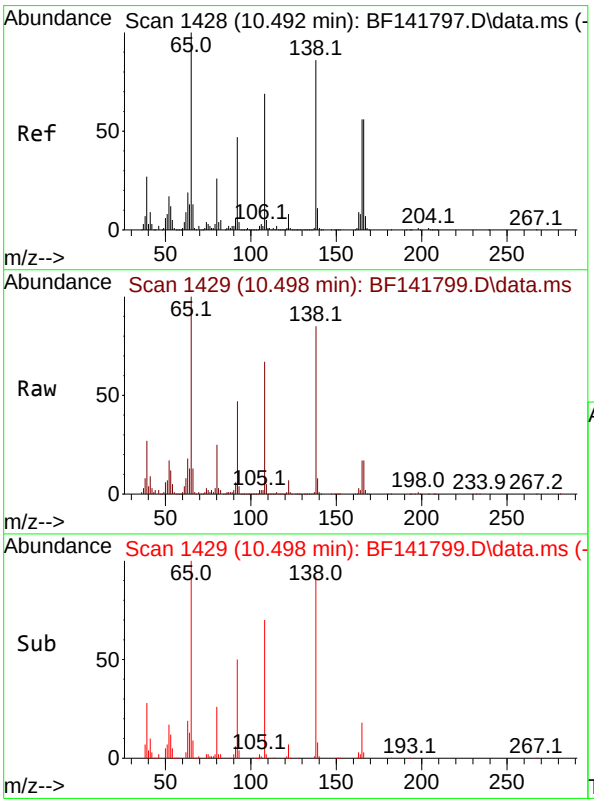
#61
4-Chlorophenyl-phenylether
Concen: 56.324 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 1079059

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.2	39.4
141	66.0	51.7	77.5

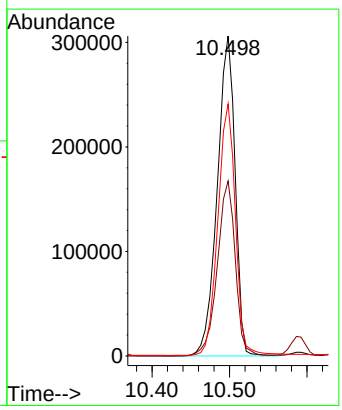


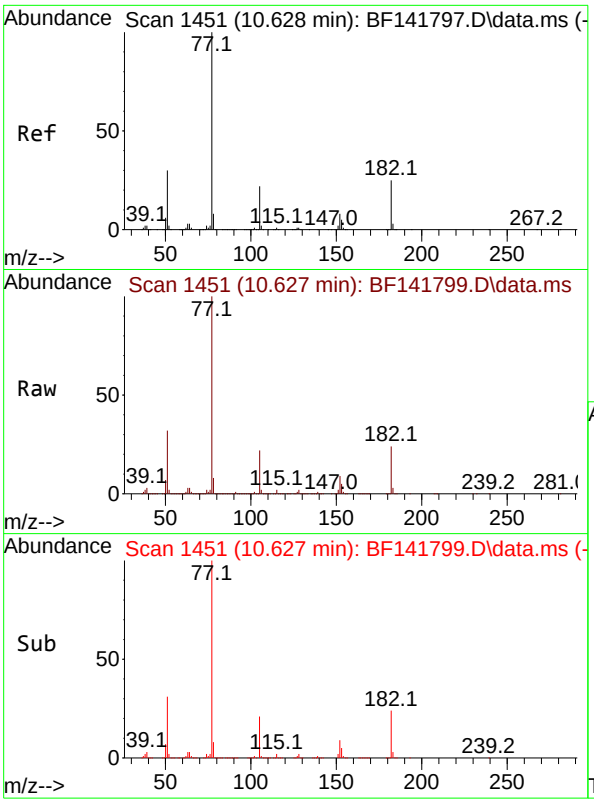


#62
4-Nitroaniline
Concen: 69.546 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:138 Resp: 490806

Ion	Ratio	Lower	Upper
138	100		
92	54.7	34.9	74.9
108	78.8	59.6	99.6



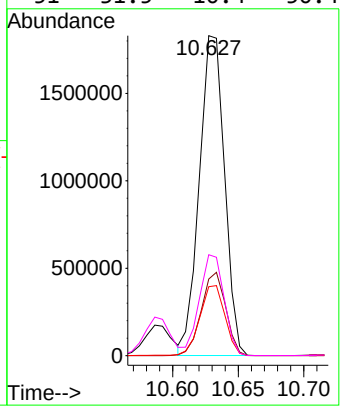


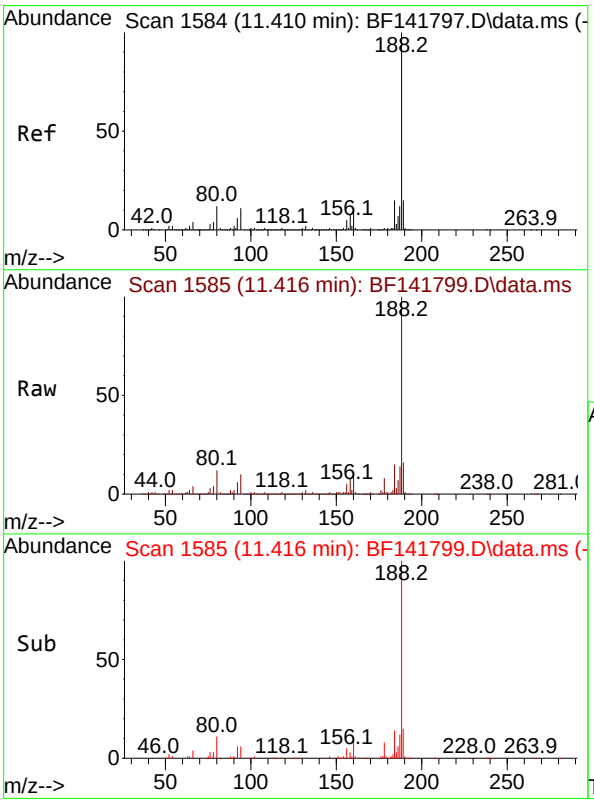
#63
Azobenzene
Concen: 56.242 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 2453259

Ion	Ratio	Lower	Upper
77	100		
182	23.9	4.2	44.2
105	21.5	1.5	41.5
51	31.5	10.4	50.4

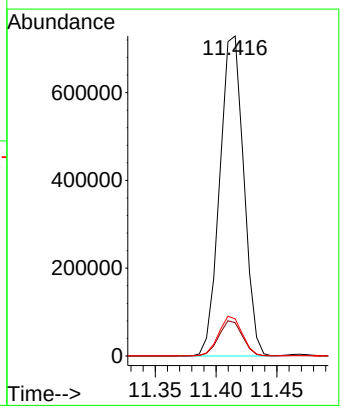


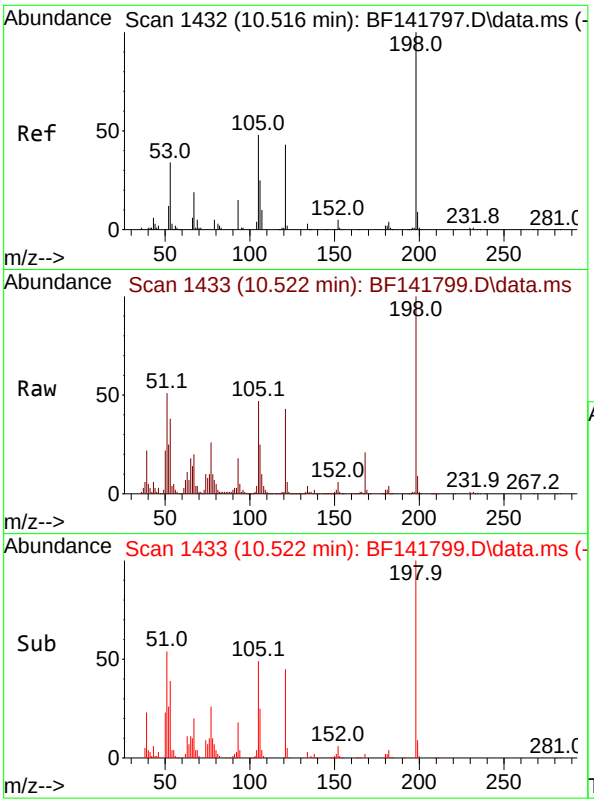


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:188 Resp: 999271

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.6	9.7	14.5



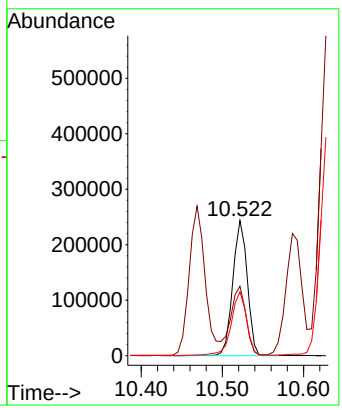


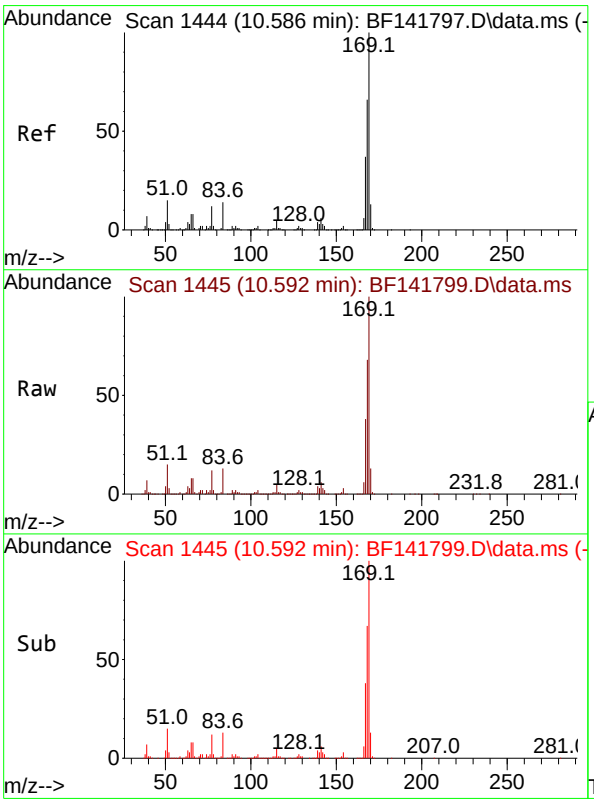
#65
4,6-Dinitro-2-methylphenol
Concen: 61.255 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 300954

Ion	Ratio	Lower	Upper
198	100		
51	51.4	32.1	72.1
105	47.2	28.5	68.5

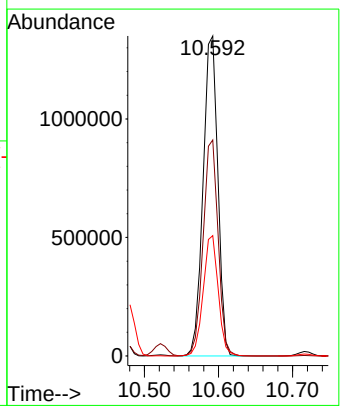


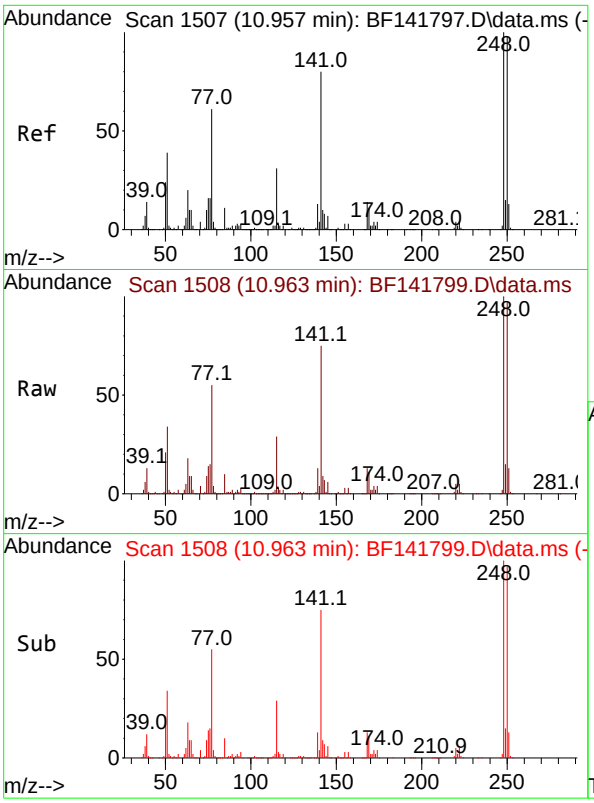


#66
n-Nitrosodiphenylamine
Concen: 56.913 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:169 Resp: 1867463

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.0	79.6
167	37.6	29.3	43.9



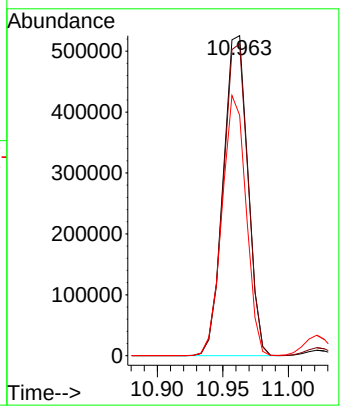


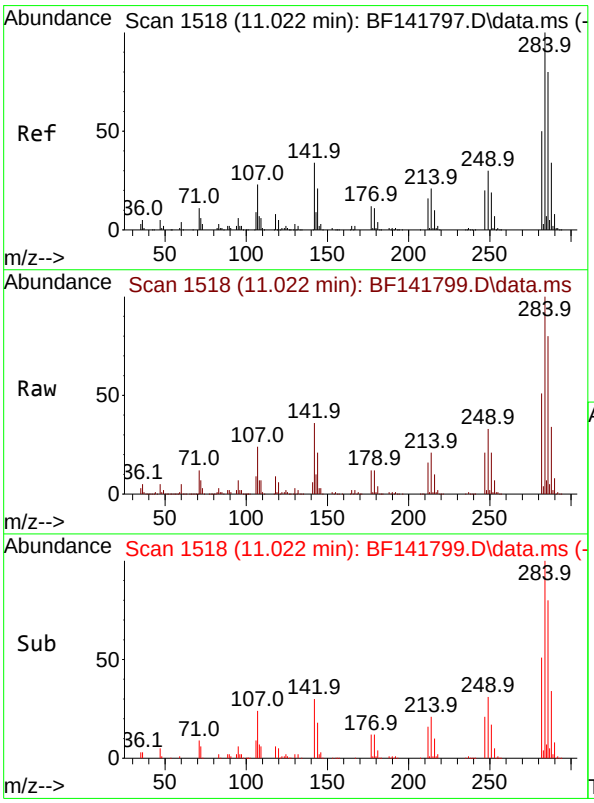
#67
4-Bromophenyl-phenylether
Concen: 59.012 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 688777

Ion	Ratio	Lower	Upper
248	100		
250	97.5	78.1	117.1
141	75.2	64.3	96.5

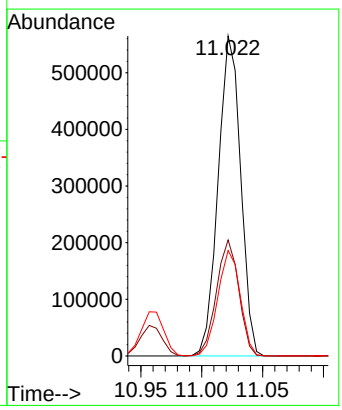


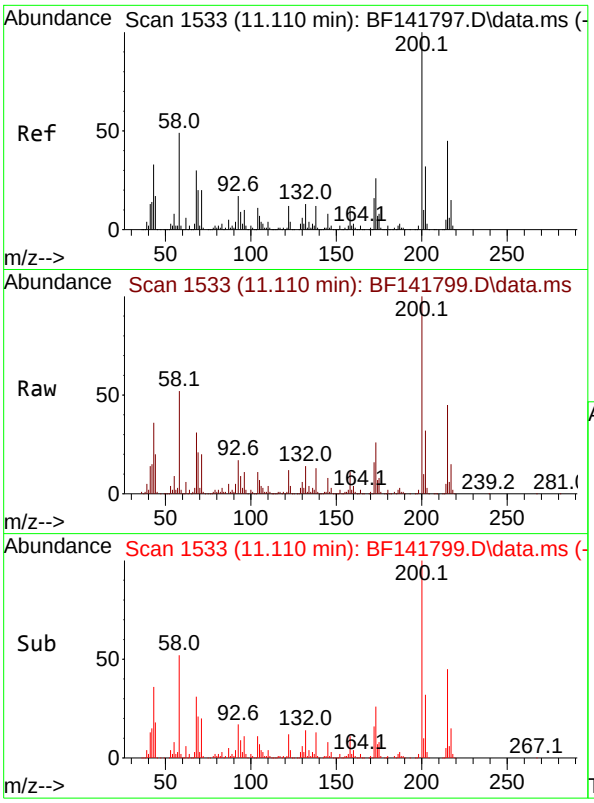


#68
Hexachlorobenzene
Concen: 58.945 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:284 Resp: 726507

Ion	Ratio	Lower	Upper
284	100		
142	36.3	28.2	42.2
249	33.0	25.5	38.3



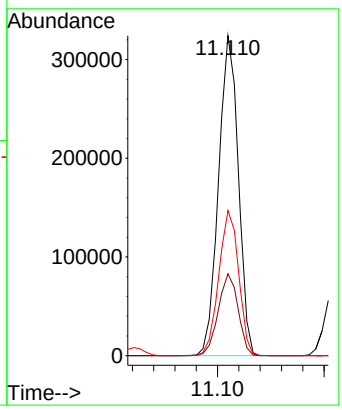


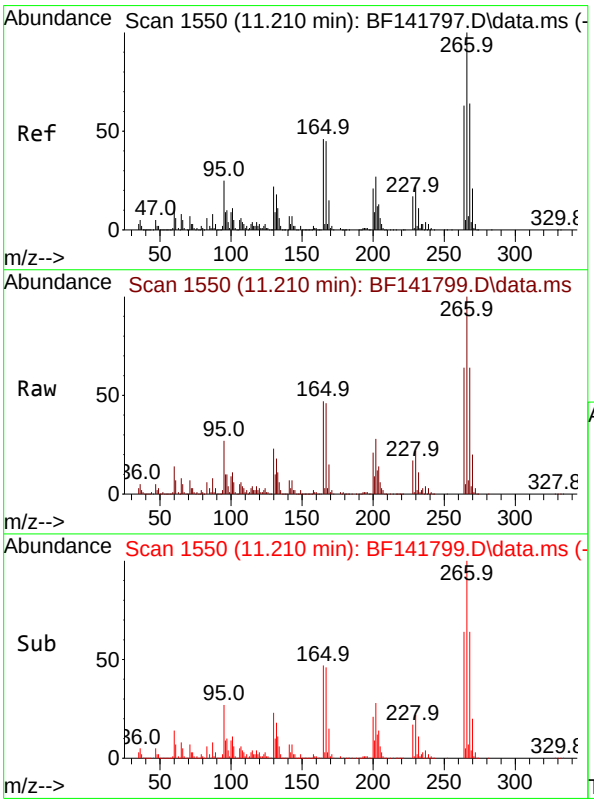
#69
Atrazine
Concen: 46.200 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 416878

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	45.3	25.3	65.3

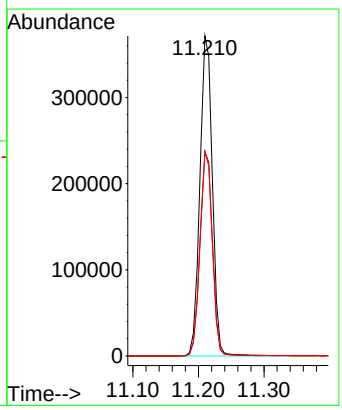


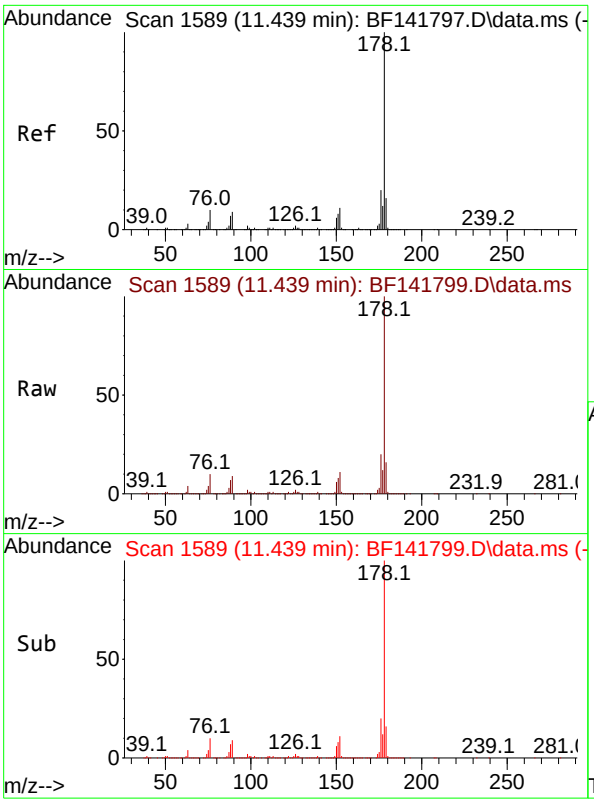


#70
Pentachlorophenol
Concen: 62.968 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:266 Resp: 492228

Ion	Ratio	Lower	Upper
266	100		
268	63.9	50.9	76.3
264	63.8	50.2	75.4



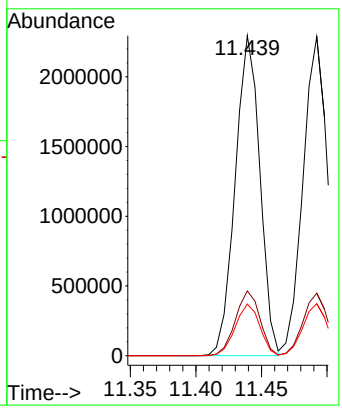


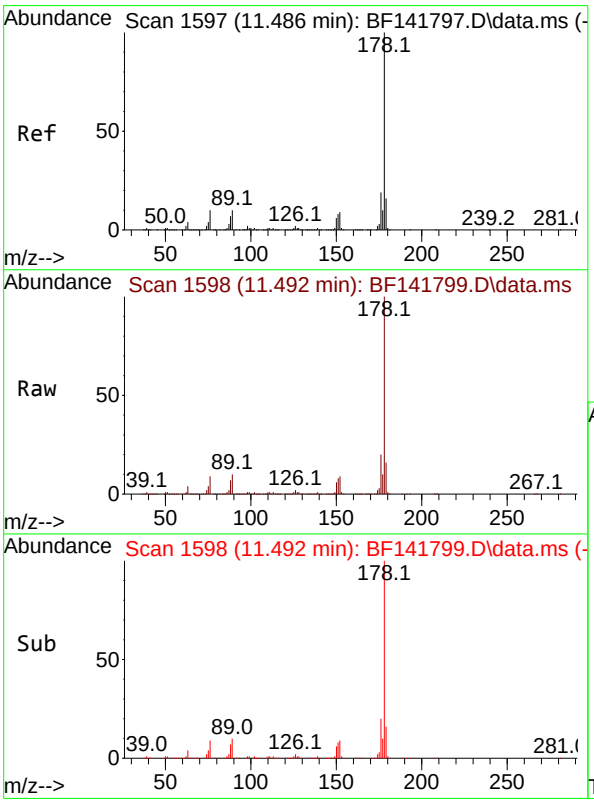
#71
Phenanthrene
Concen: 56.165 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 3002094

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	16.2	12.6	19.0

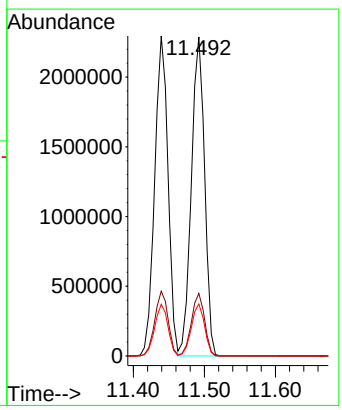


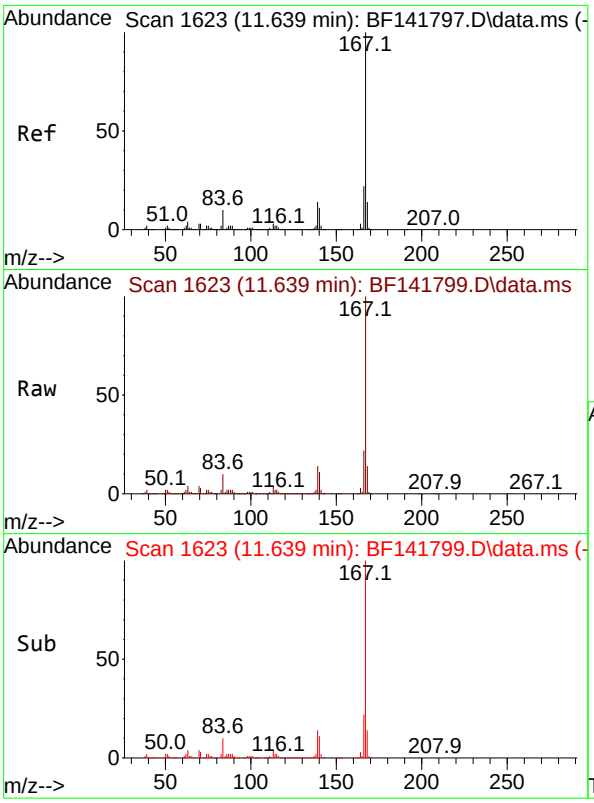


#72
Anthracene
Concen: 55.373 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:178 Resp: 2966353

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	16.3	12.8	19.2



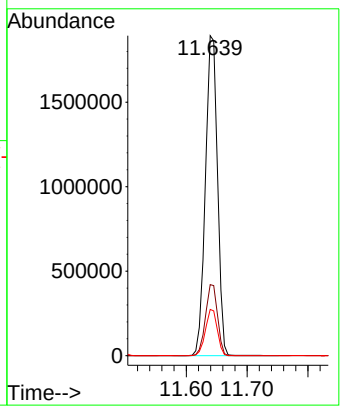


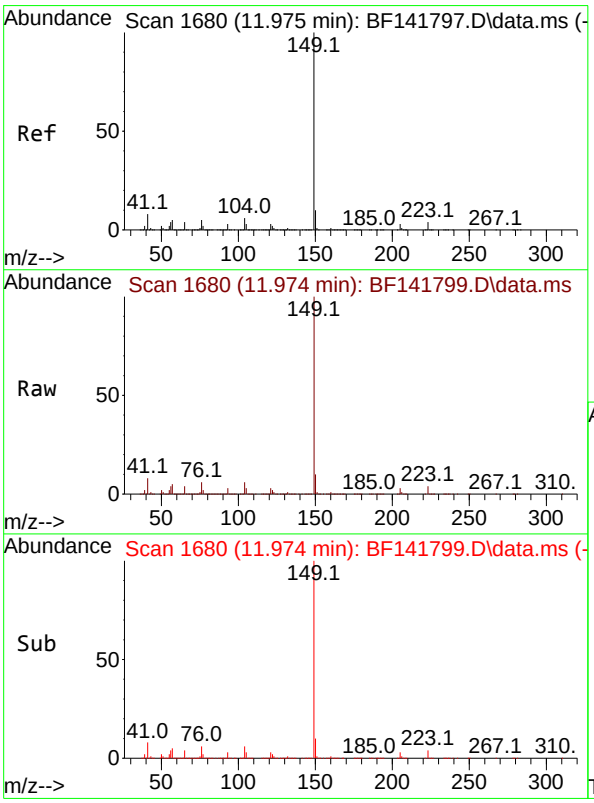
#73
Carbazole
Concen: 55.217 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 2612132

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	14.5	11.3	16.9

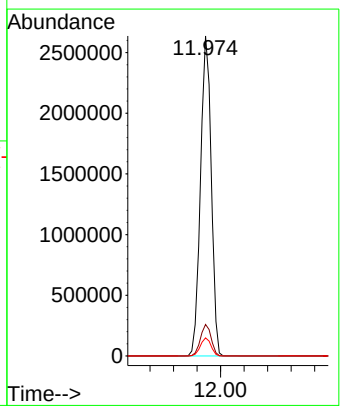


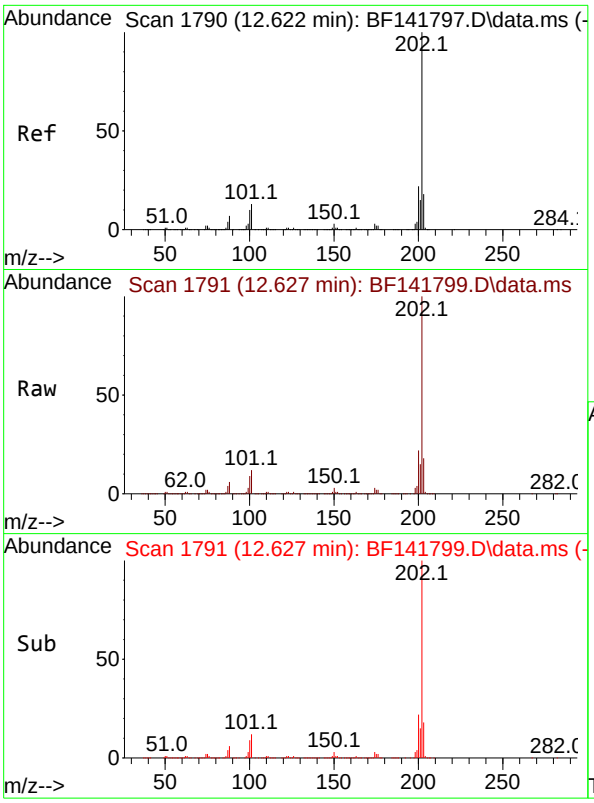


#74
Di-n-butylphthalate
Concen: 55.675 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 3338525

Ion	Ratio	Lower	Upper
149	100		
150	9.9	7.7	11.5
104	5.7	4.4	6.6



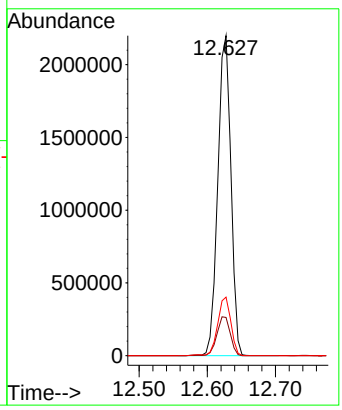


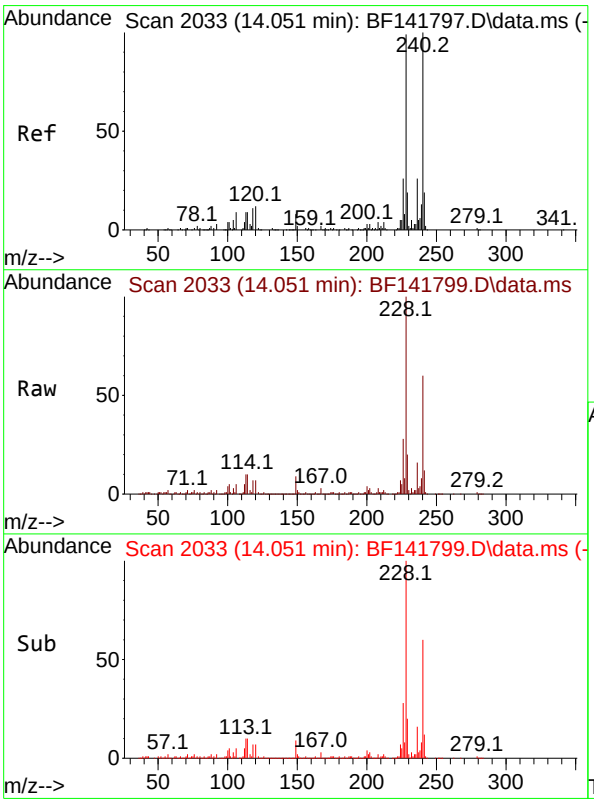
#75
Fluoranthene
Concen: 53.680 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 2940034

Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	32.8
203	18.3	0.0	38.0

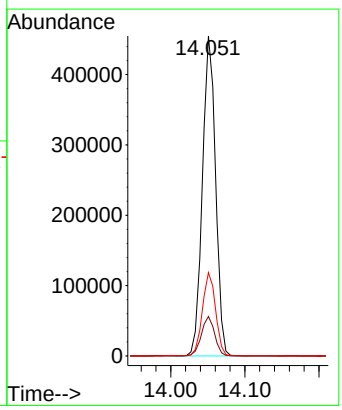


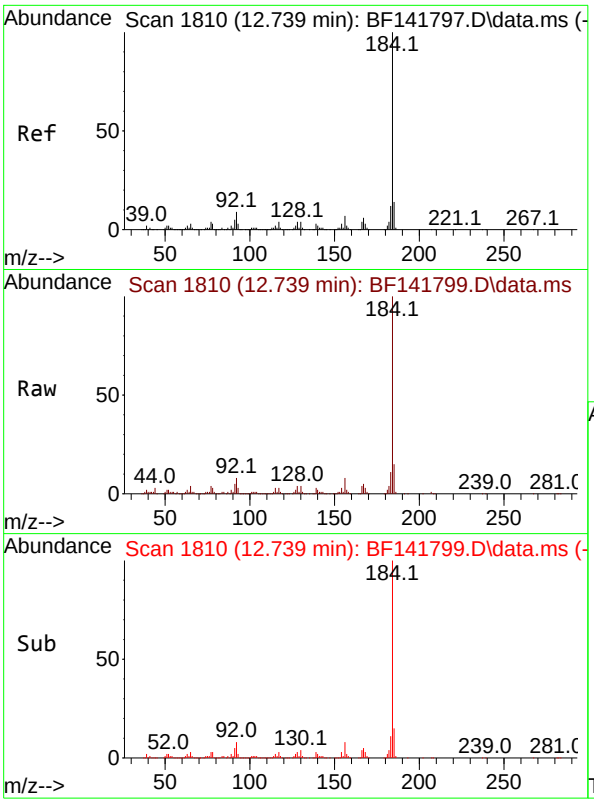


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:240 Resp: 562939

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.7	14.5
236	26.0	21.0	31.4



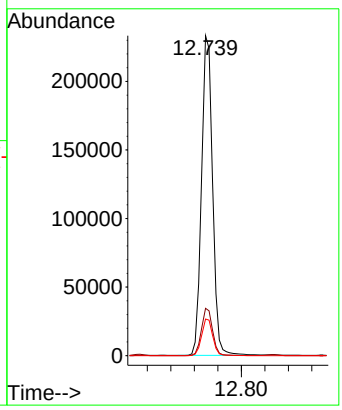


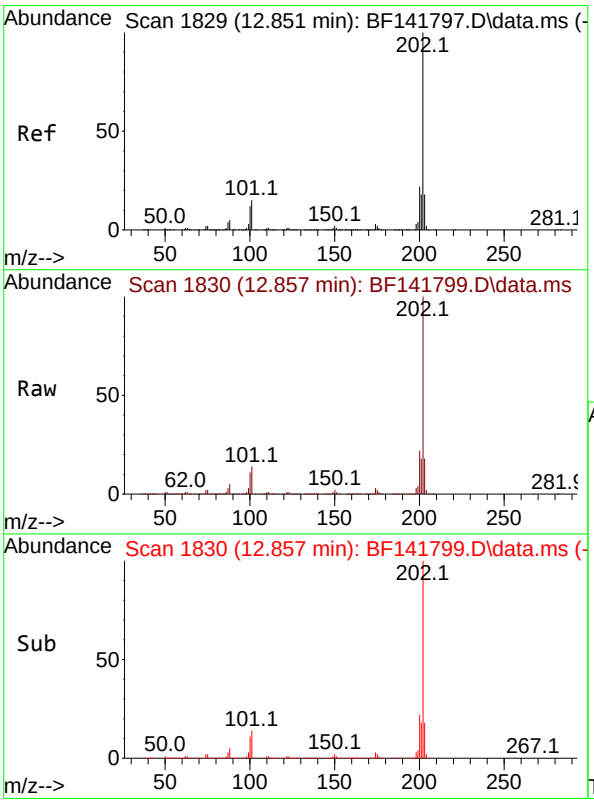
#77
Benzidine
Concen: 43.207 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 306135

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.6	17.4
183	11.4	9.4	14.0

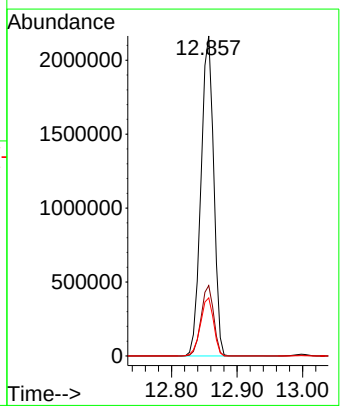


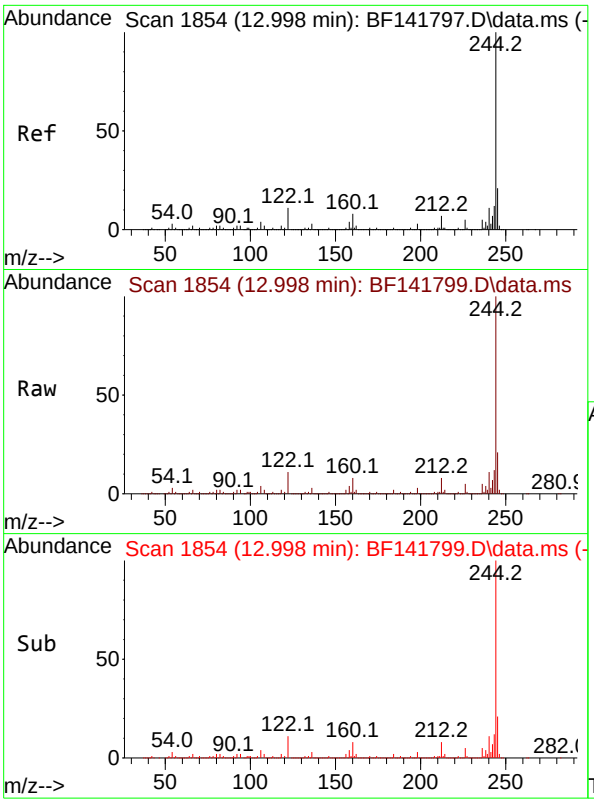


#78
Pyrene
Concen: 60.064 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:202 Resp: 2927964

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.0
203	18.2	14.6	22.0



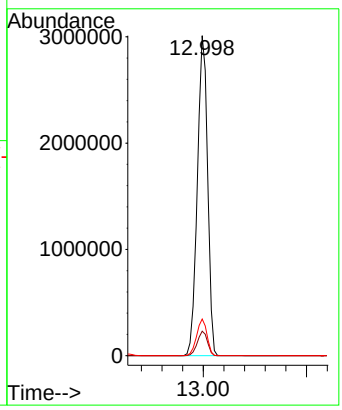


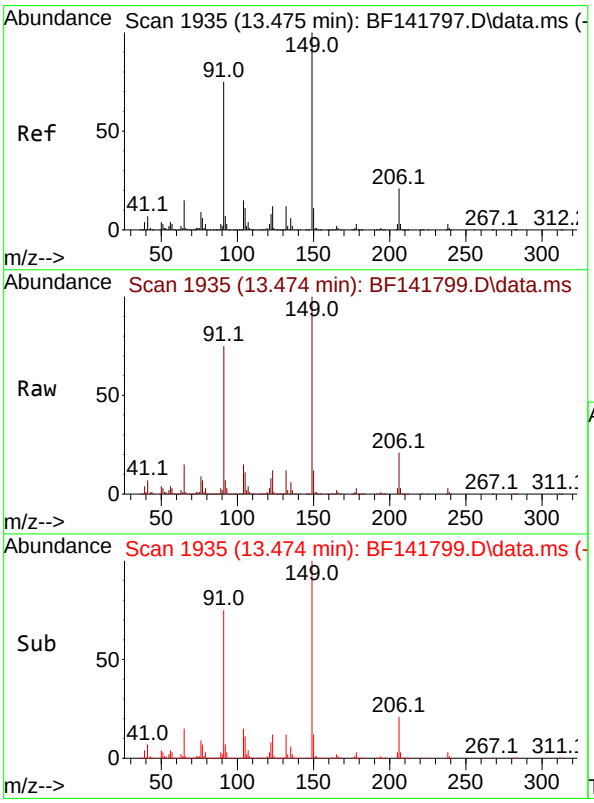
#79
Terphenyl-d14
Concen: 119.098 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 4143891

Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.0	9.0
122	11.5	9.0	13.6

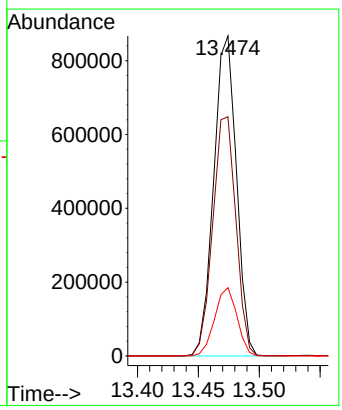


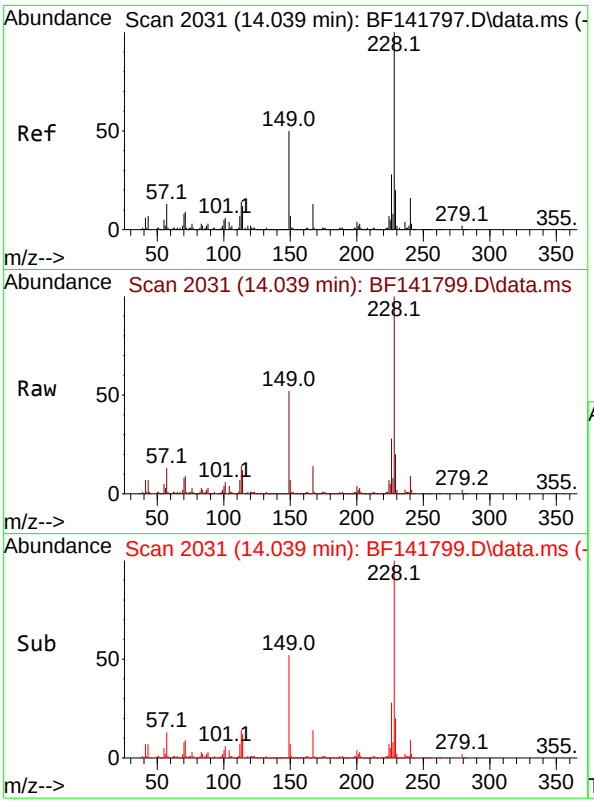


#80
Butylbenzylphthalate
Concen: 63.605 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 1126511

Ion	Ratio	Lower	Upper
149	100		
91	74.8	60.1	90.1
206	21.3	16.8	25.2



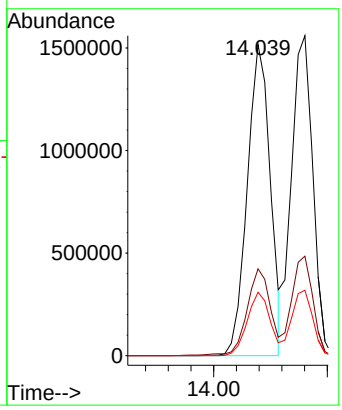


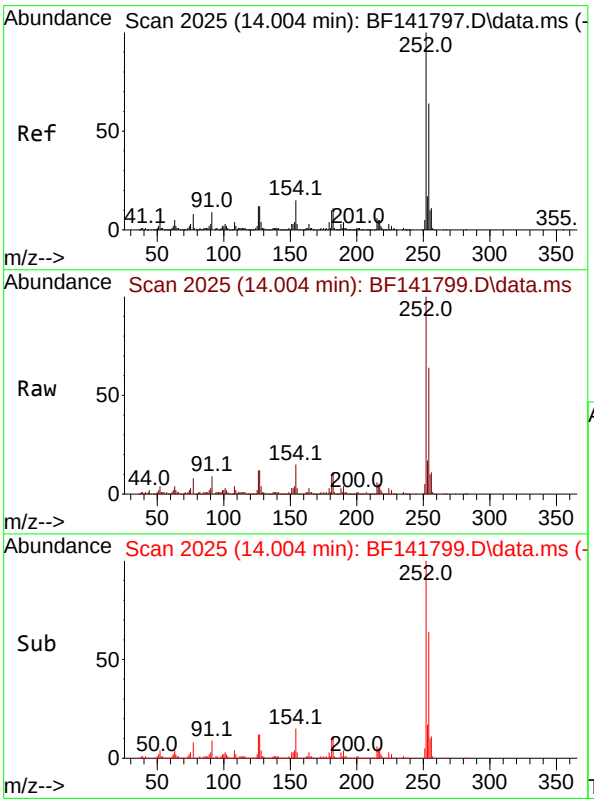
#81
Benzo(a)anthracene
Concen: 57.309 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 2130928

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.1	33.1
229	20.4	16.1	24.1

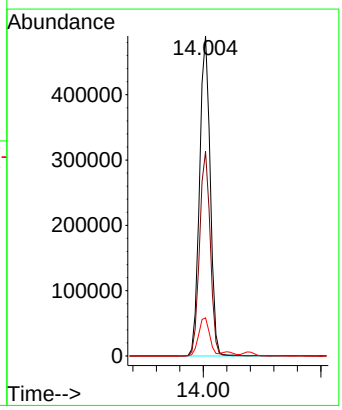


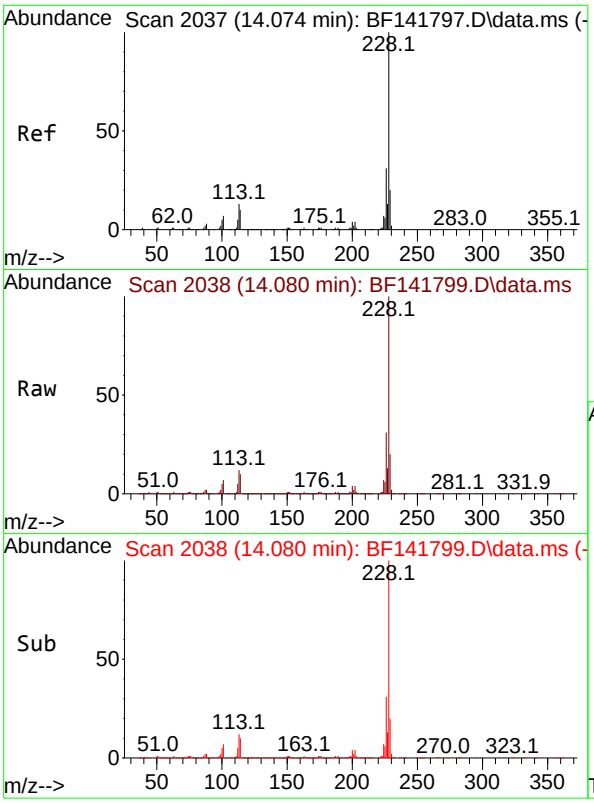


#82
3,3'-Dichlorobenzidine
Concen: 57.639 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 614898

Ion	Ratio	Lower	Upper
252	100		
254	63.9	51.4	77.0
126	11.9	9.8	14.6



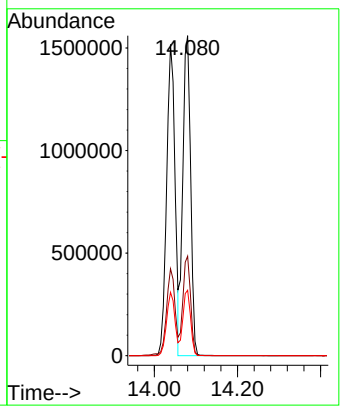


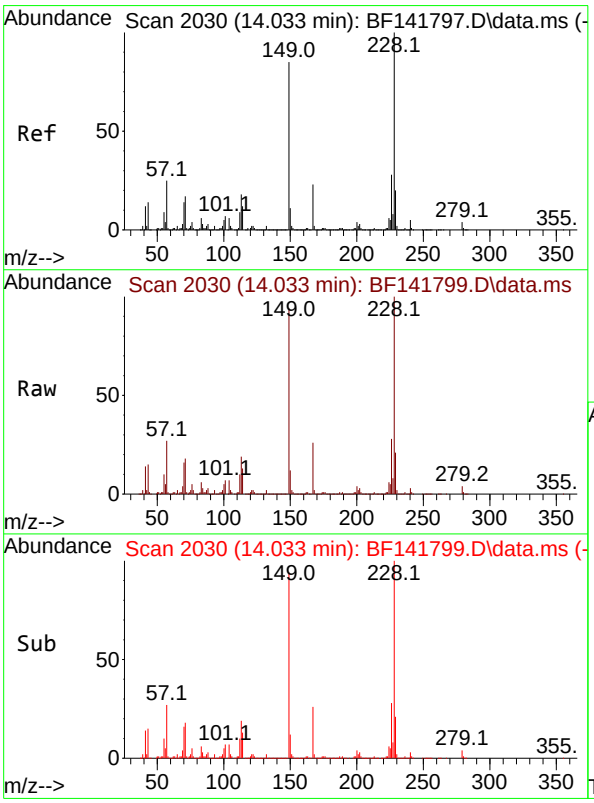
#83
Chrysene
Concen: 59.545 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 2040957

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	20.4	16.1	24.1

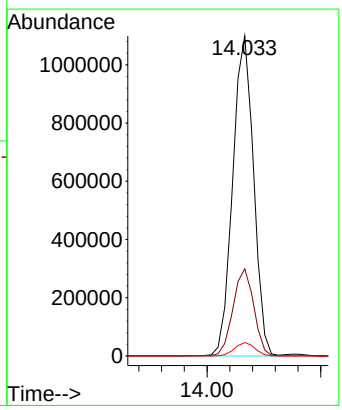


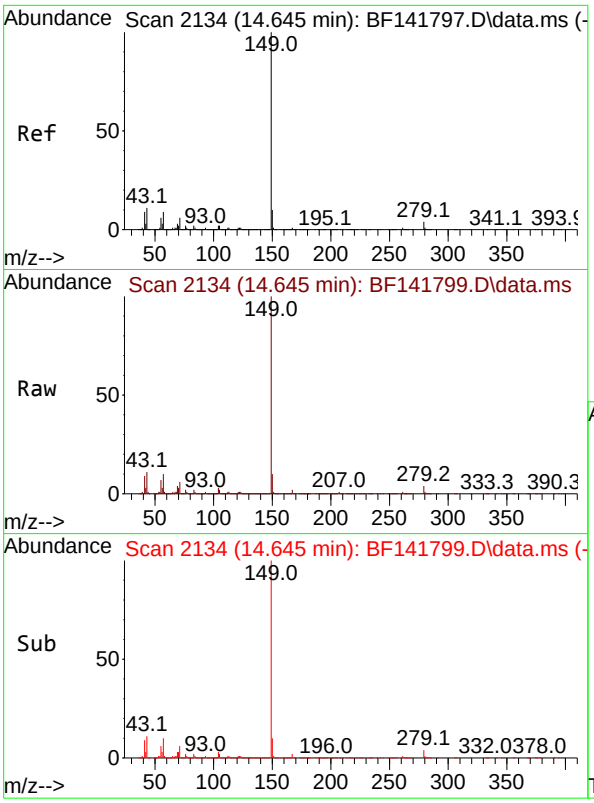


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.421 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:149 Resp: 1398602

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.2	31.8
279	4.2	3.3	4.9



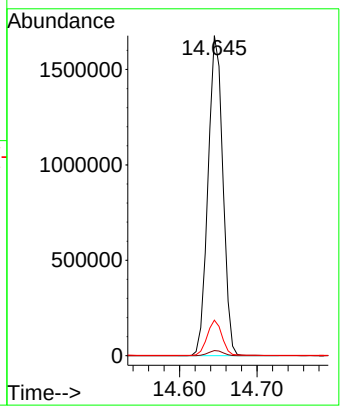


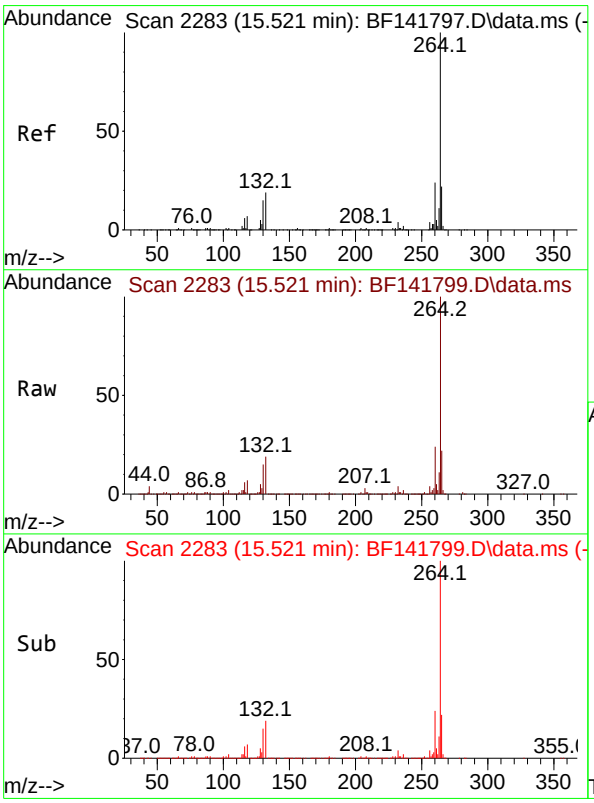
#85
Di-n-octyl phthalate
Concen: 67.411 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 2225625

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.0	8.6	12.8

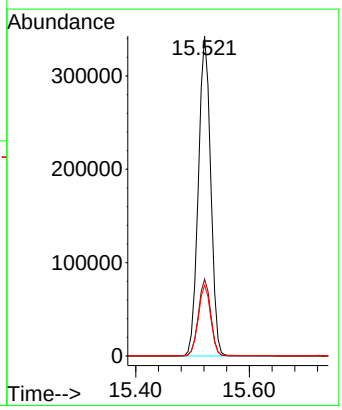


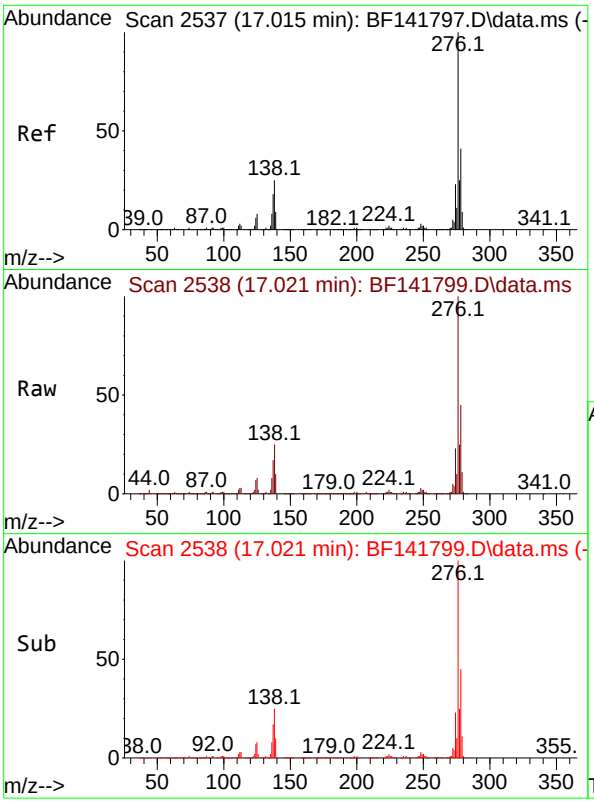


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:264 Resp: 517191

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.9	28.3
265	22.1	17.4	26.0



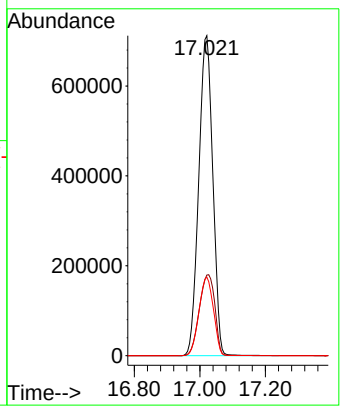


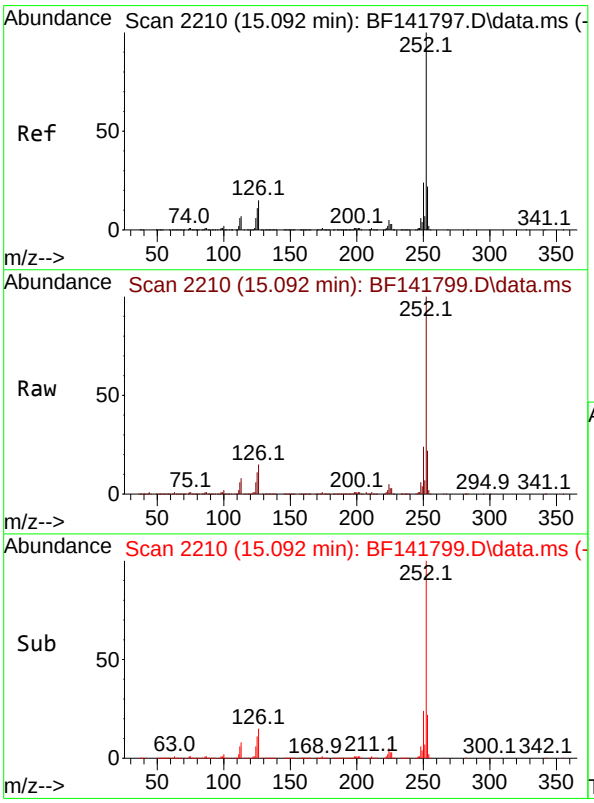
#87
Indeno(1,2,3-cd)pyrene
Concen: 64.589 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 2127125

Ion	Ratio	Lower	Upper
276	100		
138	28.0	22.5	33.7
277	25.4	20.3	30.5

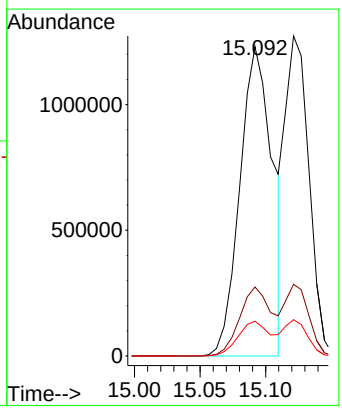


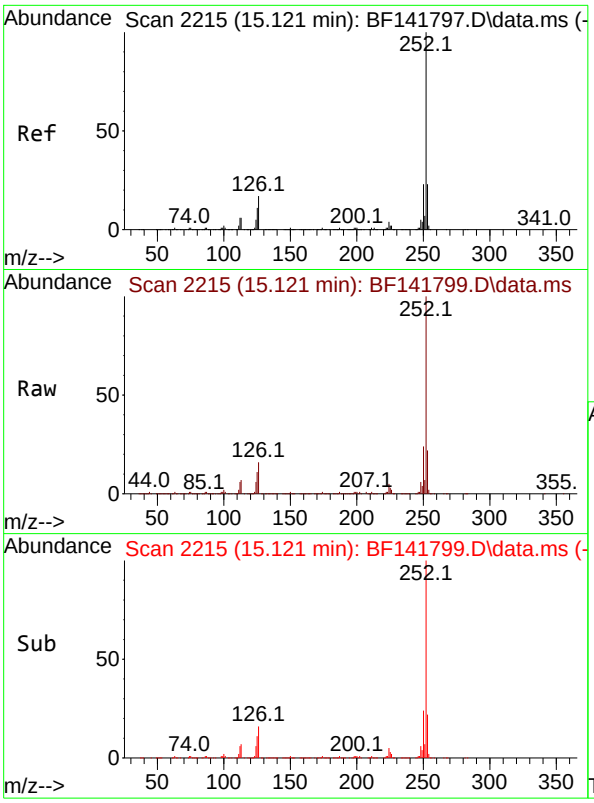


#88
Benzo(b)fluoranthene
Concen: 60.349 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 2126076

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	11.2	8.6	13.0



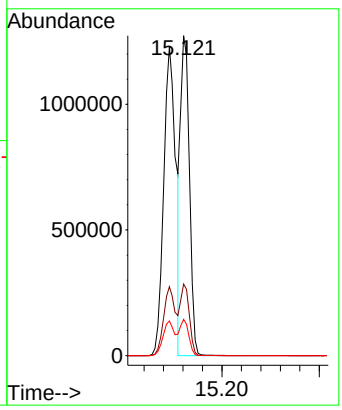


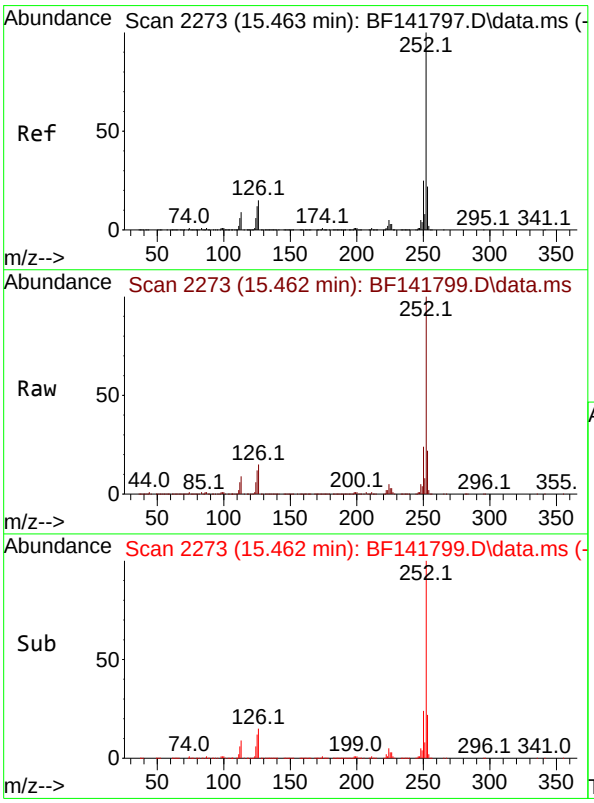
#89
Benzo(k)fluoranthene
Concen: 53.909 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 1614240

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	11.4	8.8	13.2

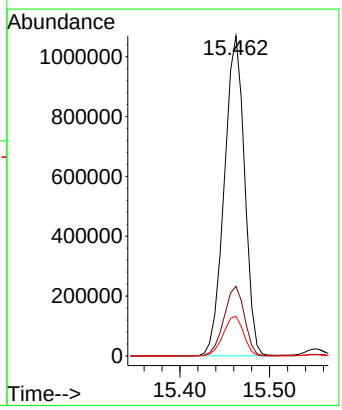


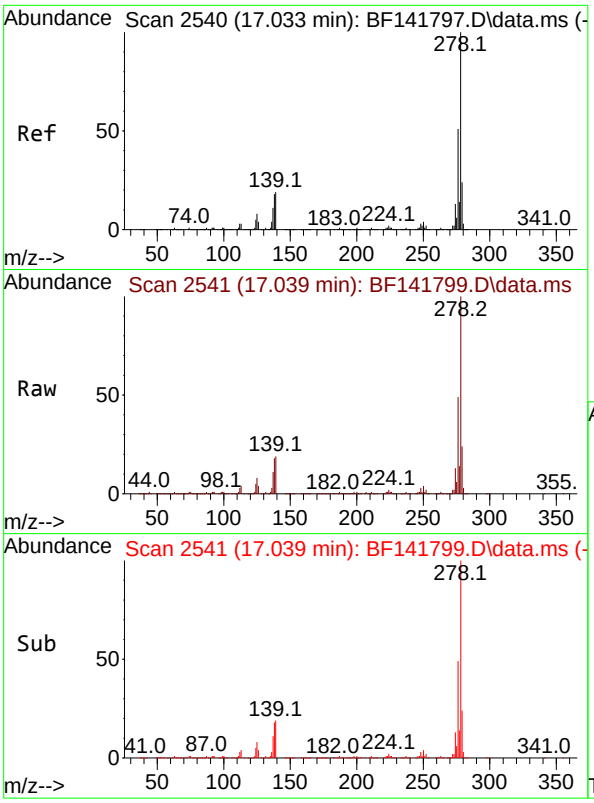


#90
Benzo(a)pyrene
Concen: 59.327 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:252 Resp: 1676196

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	12.4	9.4	14.2



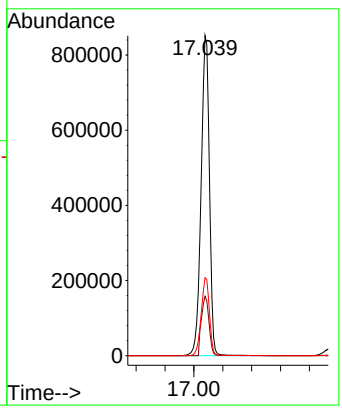


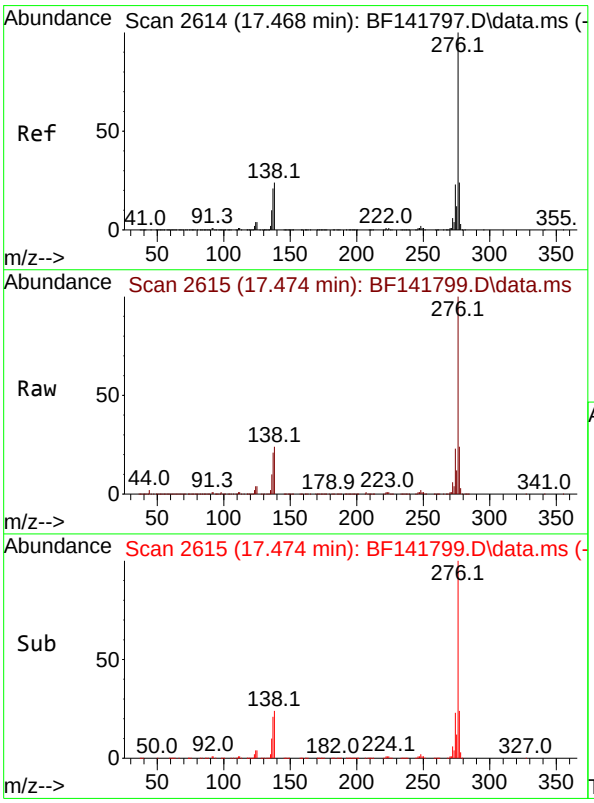
#91
Dibenzo(a,h)anthracene
Concen: 63.544 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 1708189

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.9	22.3
279	24.4	19.3	28.9

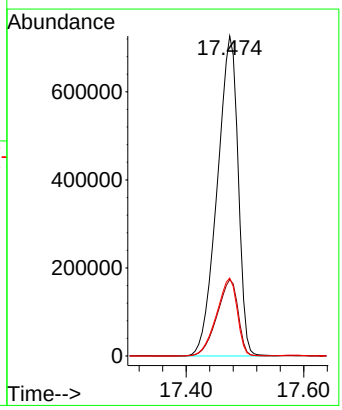




#92
Benzo(g,h,i)perylene
Concen: 65.105 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:276 Resp: 1792957

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	24.3	19.3	28.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	288826	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	1114934	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	596680	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	953117	20.000	ng		0.00
76) Chrysene-d12	14.051	240	523206	20.000	ng		0.00
86) Perylene-d12	15.521	264	508610	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	2612441	144.448	ng		0.00
7) Phenol-d6	6.522	99	3411771	144.934	ng		0.01
23) Nitrobenzene-d5	7.463	82	3027619	173.576	ng		0.01
42) 2,4,6-Tribromophenol	10.722	330	924112	164.969	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	5006600	134.541	ng		0.00
79) Terphenyl-d14	13.004	244	4843134	149.765	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.675	88	624874	76.145	ng		100
3) Pyridine	3.446	79	1560139	76.409	ng		99
4) n-Nitrosodimethylamine	3.410	42	788941	80.304	ng		98
6) Aniline	6.551	93	1743358m	71.624	ng		
8) 2-Chlorophenol	6.681	128	1409554	72.047	ng		99
9) Benzaldehyde	6.445	77	801799	58.556	ng		100
10) Phenol	6.539	94	1807328m	72.063	ng		
11) bis(2-Chloroethyl)ether	6.634	93	1461868	76.240	ng		96
12) 1,3-Dichlorobenzene	6.834	146	1510694	72.103	ng		99
13) 1,4-Dichlorobenzene	6.910	146	1522041	72.097	ng		99
14) 1,2-Dichlorobenzene	7.069	146	1370457	69.519	ng		99
15) Benzyl Alcohol	7.034	79	1363091	72.454	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.169	45	2095843	71.973	ng		98
17) 2-Methylphenol	7.139	107	1211432	75.016	ng		99
18) Hexachloroethane	7.404	117	593057	75.056	ng		98
19) n-Nitroso-di-n-propyla...	7.322	70	1126427	72.793	ng		98
20) 3+4-Methylphenols	7.298	107	1383814	68.816	ng	#	88
22) Acetophenone	7.310	105	1933636	71.209	ng		99
24) Nitrobenzene	7.481	77	1579955	84.587	ng		100
25) Isophorone	7.722	82	2894041	77.230	ng		100
26) 2-Nitrophenol	7.792	139	705125	81.046	ng		100
27) 2,4-Dimethylphenol	7.822	122	1051076	76.304	ng		99
28) bis(2-Chloroethoxy)met...	7.928	93	1759255	73.596	ng		99
29) 2,4-Dichlorophenol	8.028	162	1227409	77.239	ng		99
30) 1,2,4-Trichlorobenzene	8.116	180	1304033	74.888	ng		99
31) Naphthalene	8.198	128	4040110	70.504	ng		99
32) Benzoic acid	7.975	122	1008619	81.363	ng		99
33) 4-Chloroaniline	8.251	127	1607098	76.489	ng		100
34) Hexachlorobutadiene	8.316	225	836069	77.265	ng		99
35) Caprolactam	8.639	113	383145	78.359	ng		99
36) 4-Chloro-3-methylphenol	8.722	107	1349234	76.431	ng		99
37) 2-Methylnaphthalene	8.886	142	2637302	70.167	ng		99
38) 1-Methylnaphthalene	8.986	142	2541019	70.457	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	1288540	74.773	ng		99
41) Hexachlorocyclopentadiene	9.039	237	564266	78.461	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	898797	80.742	ng		99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	859610	77.984	ng		99
46) 1,1'-Biphenyl	9.357	154	3156440	69.499	ng		99
47) 2-Chloronaphthalene	9.380	162	2401468	71.641	ng		98
48) 2-Nitroaniline	9.469	65	770567	80.727	ng		99
49) Acenaphthylene	9.792	152	3512076	69.880	ng		99
50) Dimethylphthalate	9.663	163	2921217	73.107	ng		100
51) 2,6-Dinitrotoluene	9.716	165	622623	79.481	ng		100
52) Acenaphthene	9.969	154	2480302	73.139	ng		100
53) 3-Nitroaniline	9.886	138	667119	79.835	ng		97
54) 2,4-Dinitrophenol	9.986	184	277943	79.409	ng	#	1
55) Dibenzofuran	10.139	168	3427897	69.448	ng		98
56) 4-Nitrophenol	10.033	139	541317	91.723	ng		100
57) 2,4-Dinitrotoluene	10.122	165	764012	79.344	ng		97
58) Fluorene	10.480	166	2557382	69.170	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	752913	78.537	ng		99
60) Diethylphthalate	10.357	149	2893471	72.232	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	1341441	72.414	ng		99
62) 4-Nitroaniline	10.504	138	611855	89.663	ng		99
63) Azobenzene	10.633	77	3013185	71.441	ng		98
65) 4,6-Dinitro-2-methylph...	10.527	198	393349	80.929	ng		98
66) n-Nitrosodiphenylamine	10.592	169	2313580	73.923	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	852216	76.550	ng		98
68) Hexachlorobenzene	11.027	284	902644	76.782	ng		97
70) Pentachlorophenol	11.216	266	610264	81.849	ng		100
71) Phenanthrene	11.439	178	3584436	70.307	ng		99
72) Anthracene	11.492	178	3550480	69.487	ng		98
73) Carbazole	11.645	167	3130504	69.380	ng		99
74) Di-n-butylphthalate	11.974	149	3944814	68.971	ng		99
75) Fluoranthene	12.627	202	3496011	66.922	ng		99
77) Benzidine	12.745	184	660393	100.283	ng		99
78) Pyrene	12.857	202	3466035	76.502	ng		99
80) Butylbenzylphthalate	13.474	149	1364388	82.887	ng		100
81) Benzo(a)anthracene	14.039	228	2703093	78.217	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	762858	76.939	ng		100
83) Chrysene	14.080	228	2394861	75.176	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1730418	84.426	ng		99
85) Di-n-octyl phthalate	14.645	149	2821762	91.958	ng		100
87) Indeno(1,2,3-cd)pyrene	17.027	276	2842850	87.778	ng		99
88) Benzo(b)fluoranthene	15.092	252	2556011	73.777	ng		98
89) Benzo(k)fluoranthene	15.127	252	2184261	74.176	ng		99
90) Benzo(a)pyrene	15.468	252	2156583	77.617	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	2269377	85.844	ng		99
92) Benzo(g,h,i)perylene	17.486	276	2397751	88.534	ng		99

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

ICAL Form

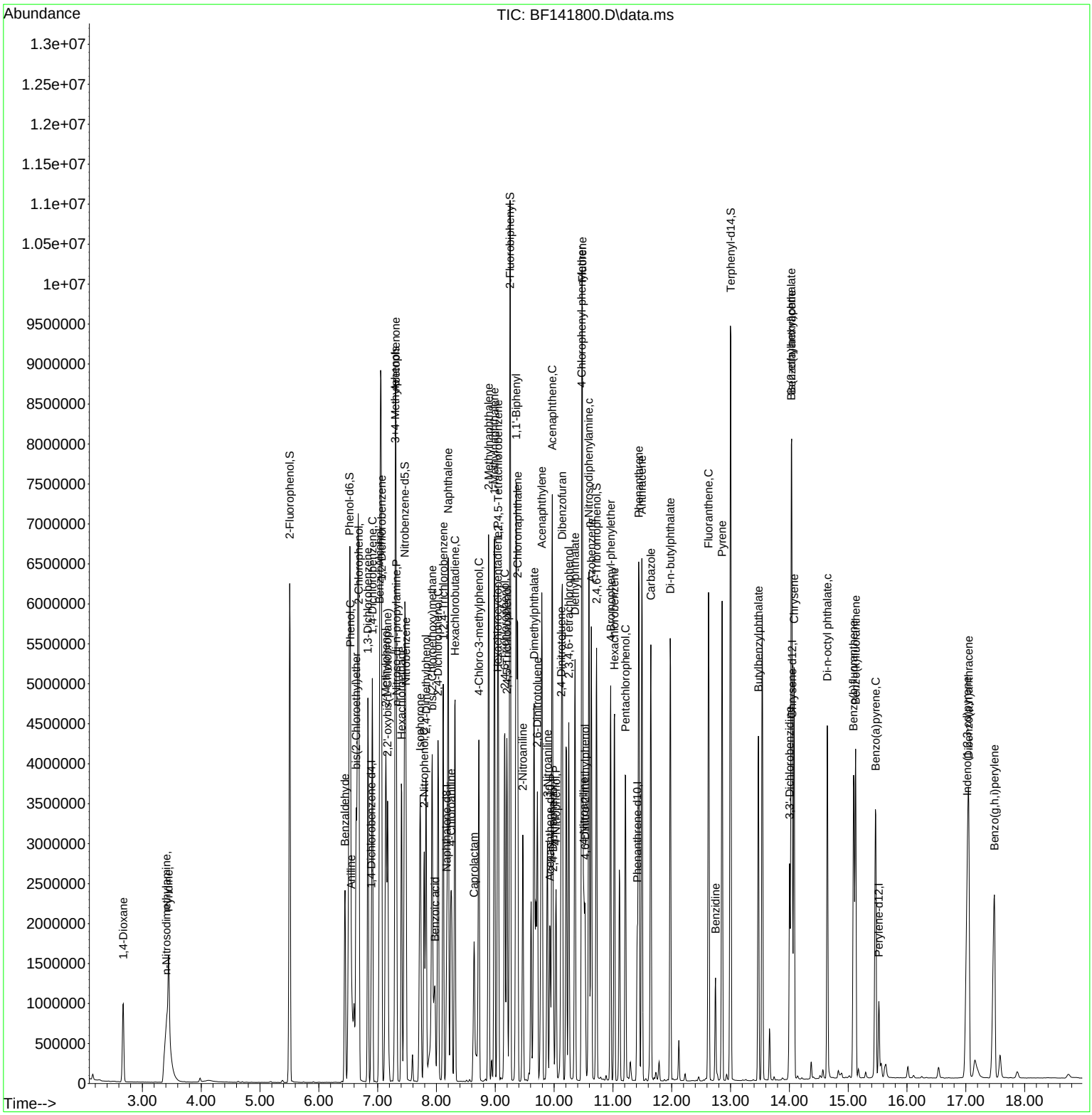
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

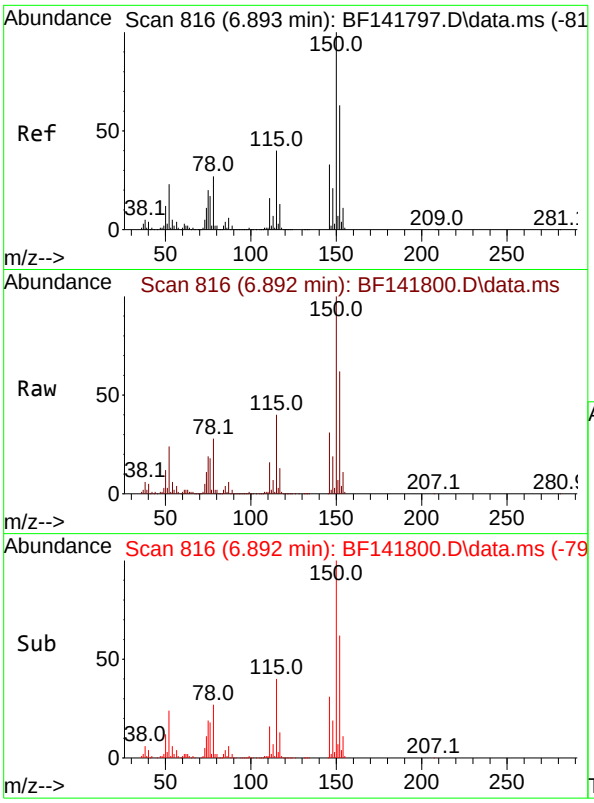
Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

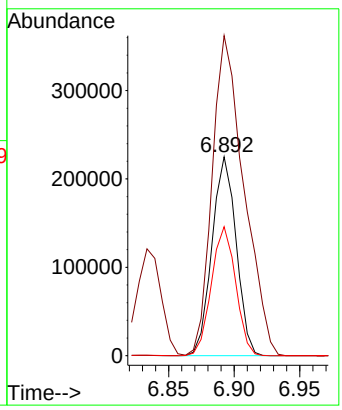




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 28882

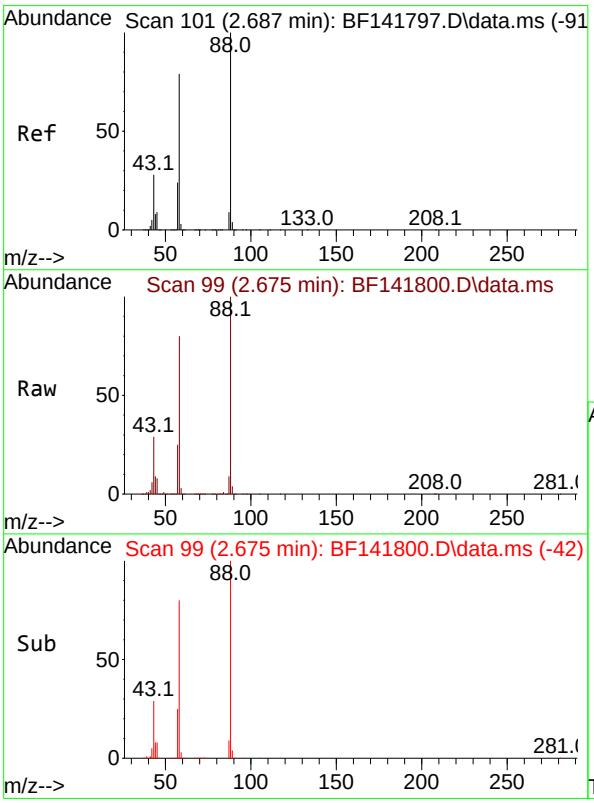
Ion	Ratio	Lower	Upper
152	100		
150	160.9	127.5	191.3
115	64.9	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

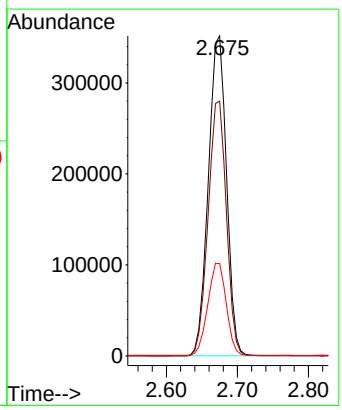
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

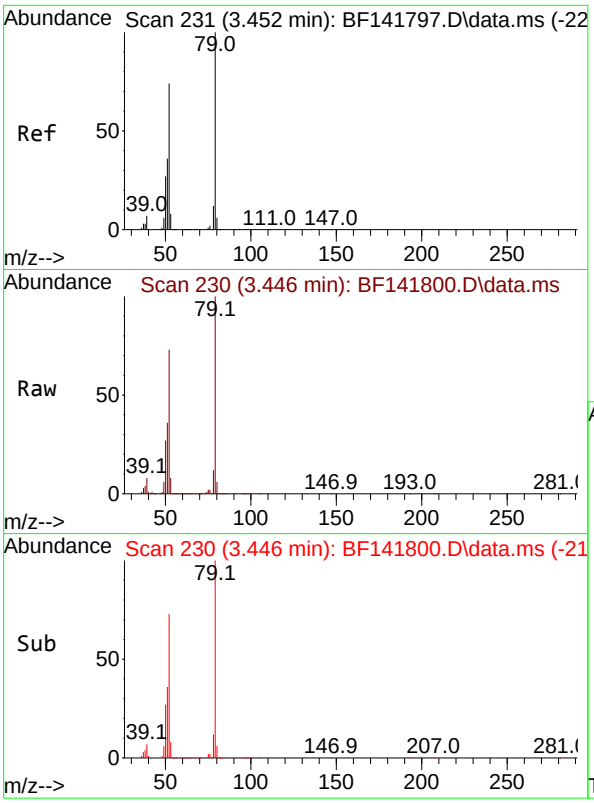


#2
1,4-Dioxane
Concen: 76.145 ng
RT: 2.675 min Scan# 99
Delta R.T. -0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 88 Resp: 624874

Ion	Ratio	Lower	Upper
88	100		
58	80.3	63.9	95.9
43	29.2	23.0	34.6

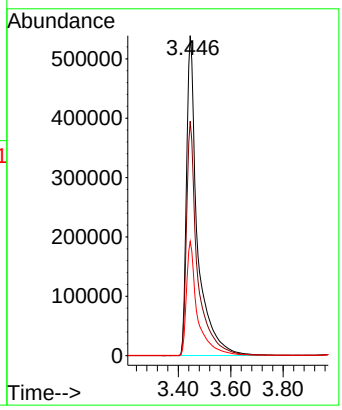




#3
Pyridine
Concen: 76.409 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 79 Resp: 156013

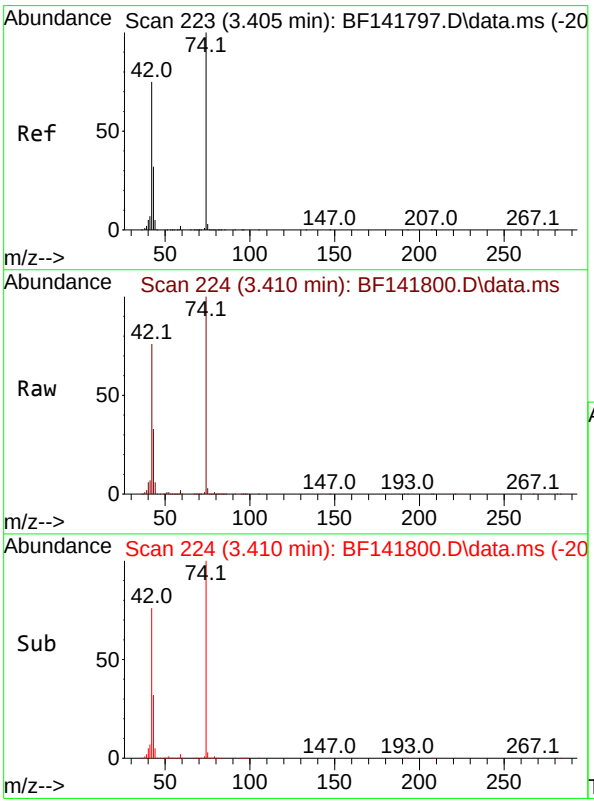
Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.7	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

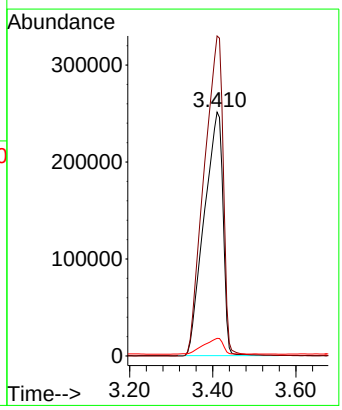
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

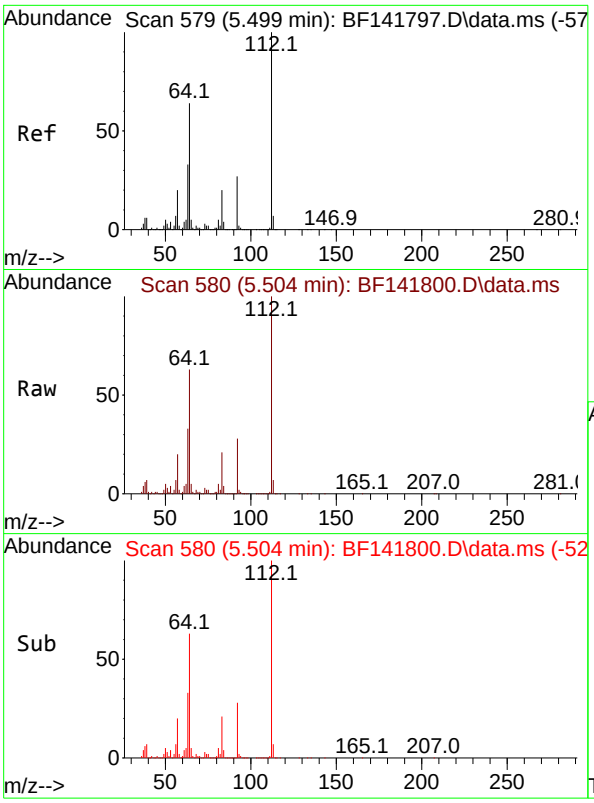


#4
n-Nitrosodimethylamine
Concen: 80.304 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 42 Resp: 788941

Ion	Ratio	Lower	Upper
42	100		
74	131.2	107.1	160.7
44	7.2	6.6	9.8





#5
2-Fluorophenol
Concen: 144.448 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

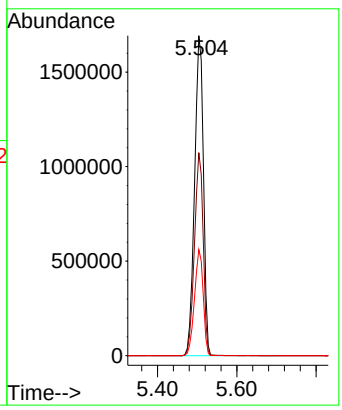
Tgt Ion:112 Resp: 261244

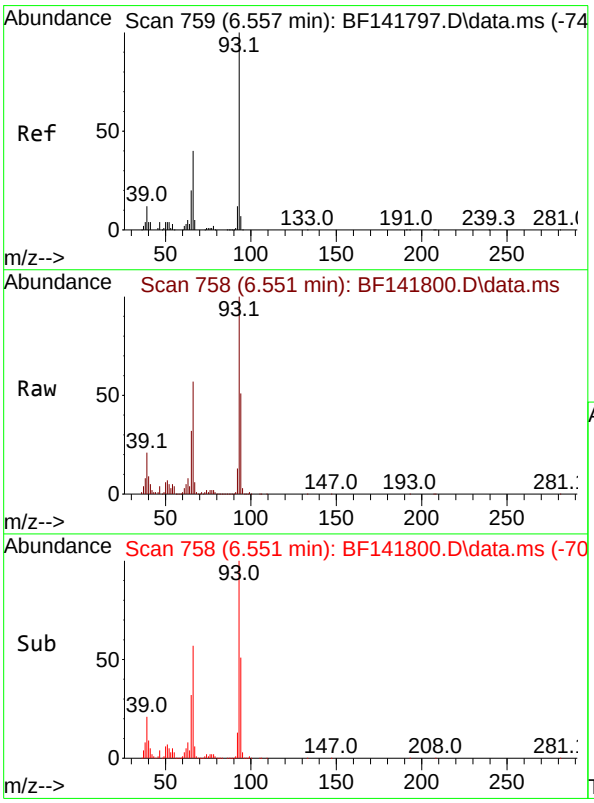
Ion	Ratio	Lower	Upper
112	100		
64	63.5	51.3	76.9
63	33.1	26.2	39.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

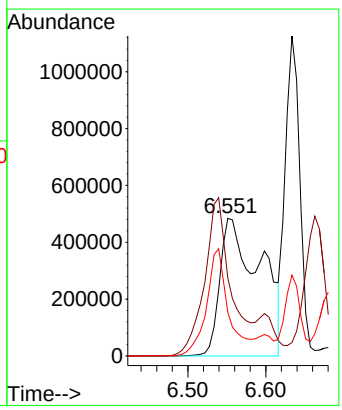


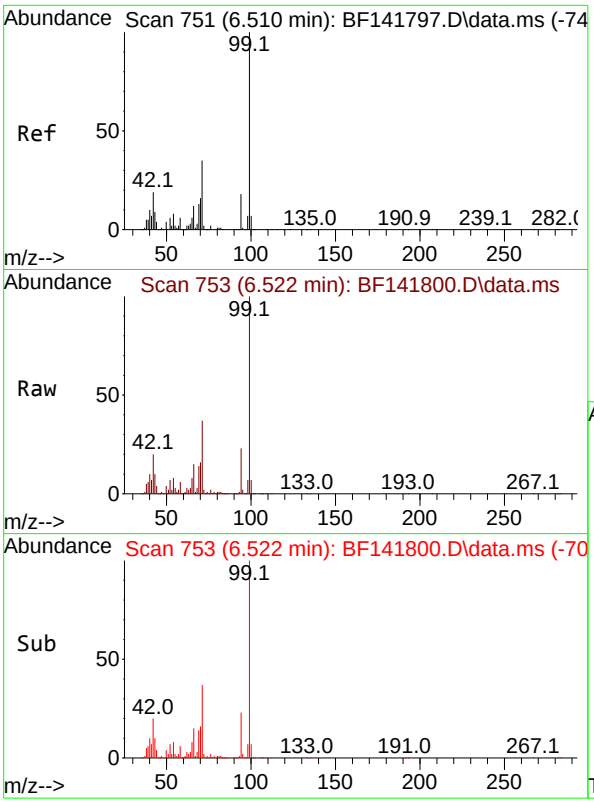


#6
Aniline
Concen: 71.624 ng m
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 1743358

Ion	Ratio	Lower	Upper
93	100		
66	56.8	32.3	48.5#
65	31.8	15.9	23.9#

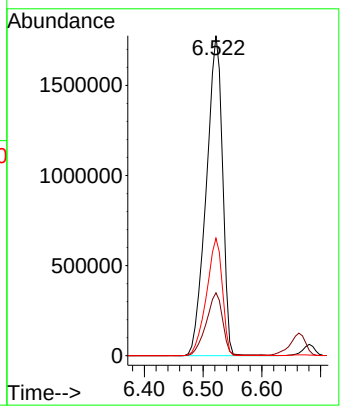




#7
Phenol-d6
Concen: 144.934 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 99 Resp: 341177

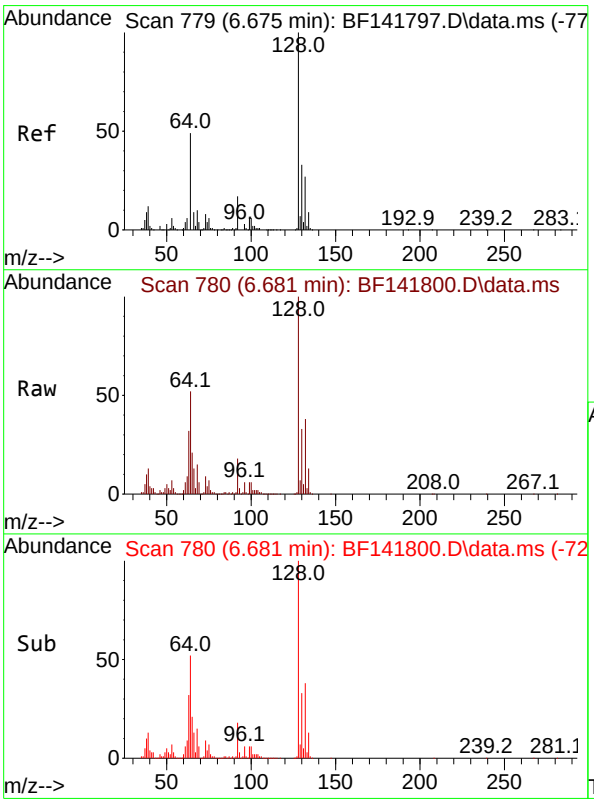
Ion	Ratio	Lower	Upper
99	100		
42	19.7	15.2	22.8
71	36.7	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

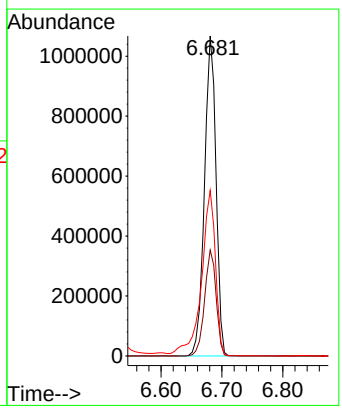
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

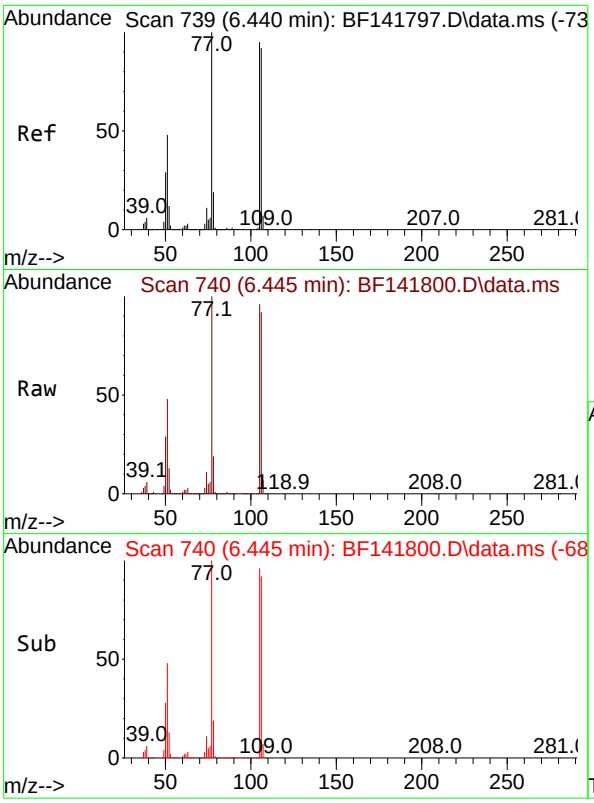


#8
2-Chlorophenol
Concen: 72.047 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:128 Resp: 1409554

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.6	52.6
64	51.7	31.1	71.1

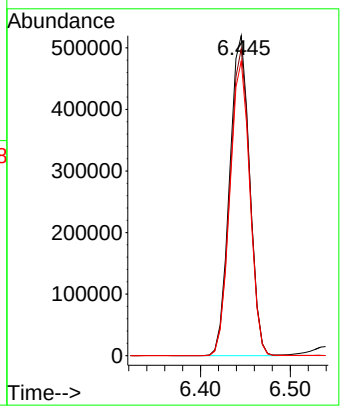




#9
Benzaldehyde
Concen: 58.556 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 80179

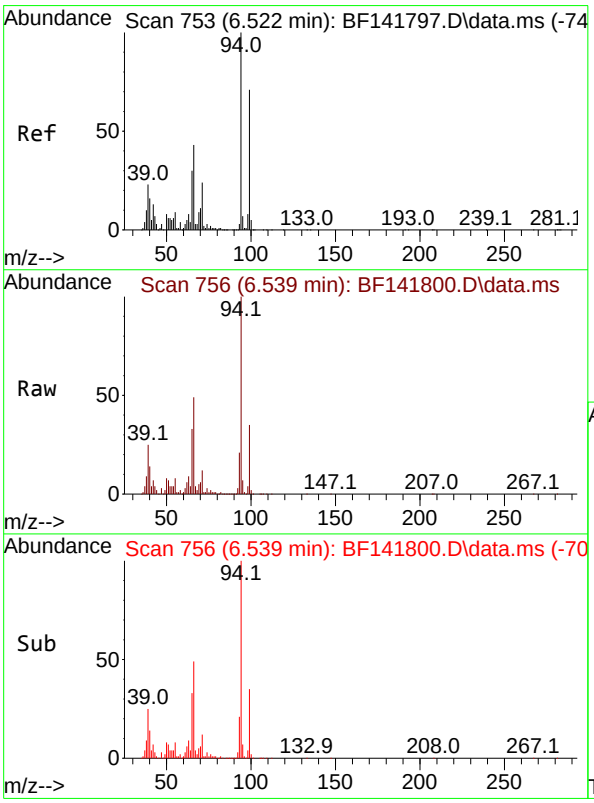
Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.3	115.3
106	92.1	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

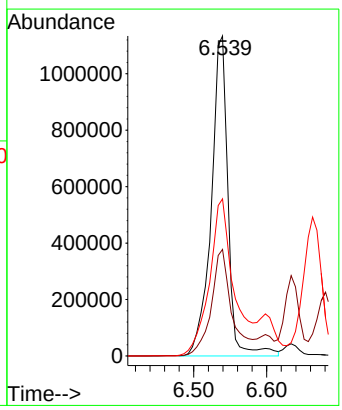
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

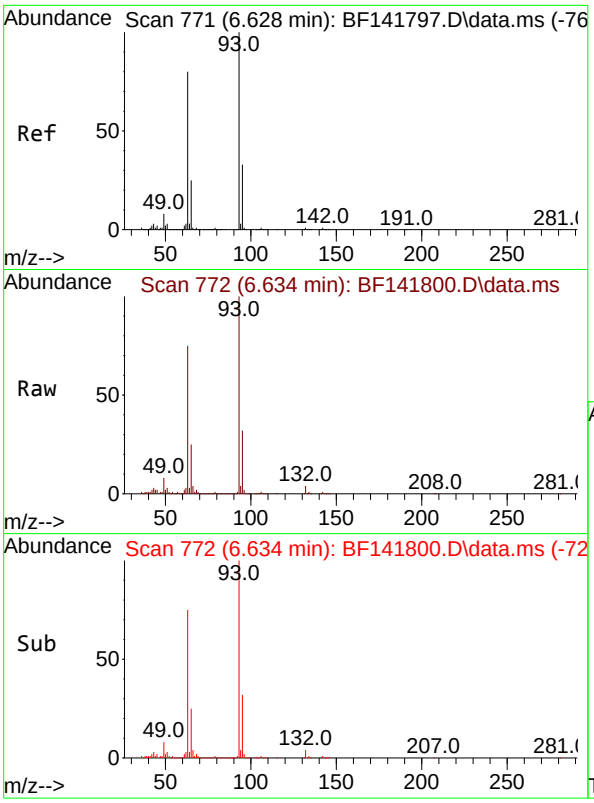


#10
Phenol
Concen: 72.063 ng m
RT: 6.539 min Scan# 756
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 94 Resp: 1807328

Ion	Ratio	Lower	Upper
94	100		
65	33.3	10.2	50.2
66	49.1	23.2	63.2

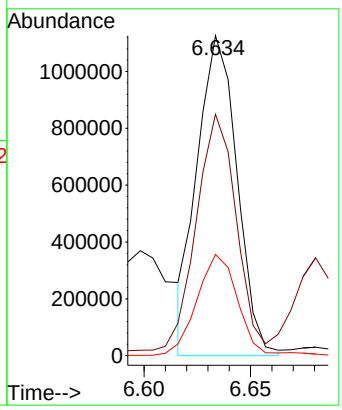




#11
bis(2-Chloroethyl)ether
Concen: 76.240 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 146186

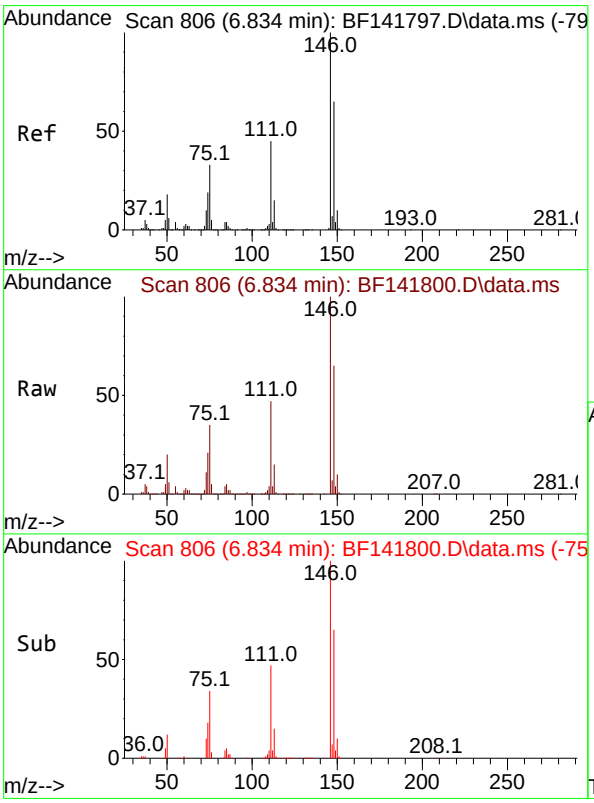
Ion	Ratio	Lower	Upper
93	100		
63	75.5	59.3	99.3
95	31.7	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

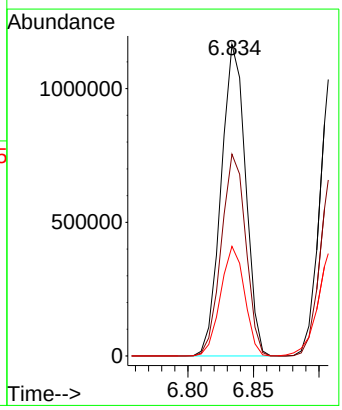
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

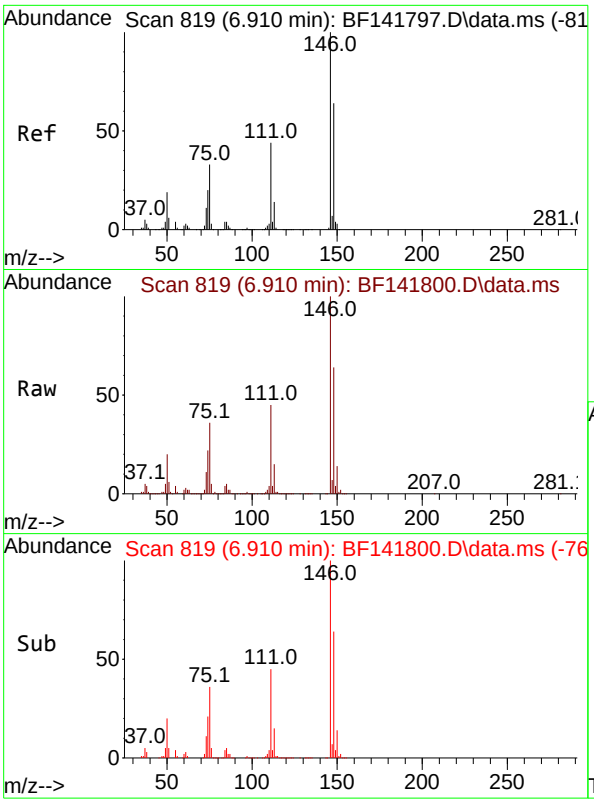


#12
1,3-Dichlorobenzene
Concen: 72.103 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 1510694

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.8	77.6
75	35.2	26.2	39.4

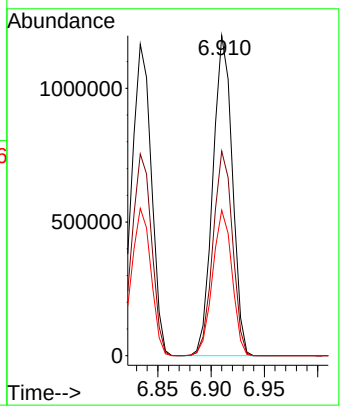




#13
1,4-Dichlorobenzene
Concen: 72.097 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 152204

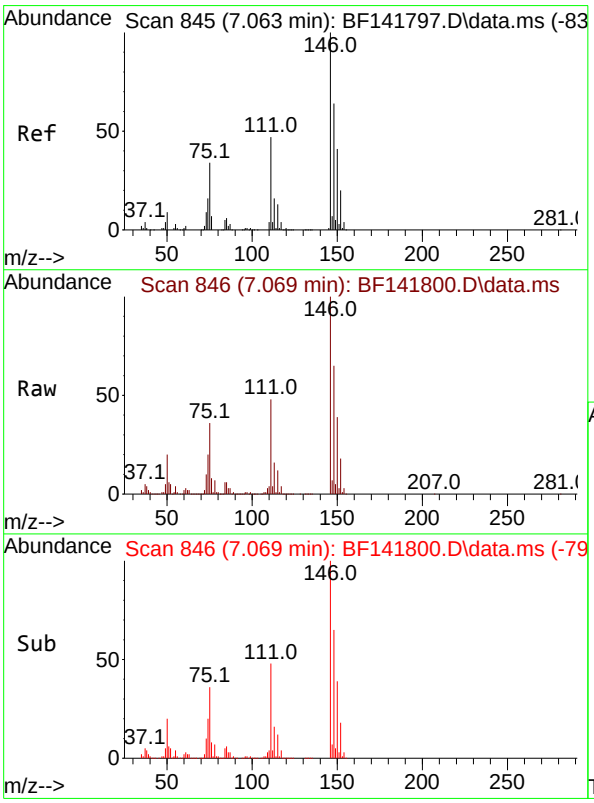
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.4	77.2
111	45.5	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

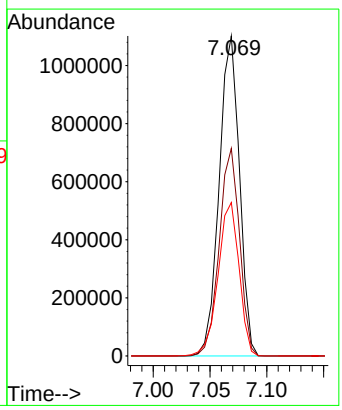
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

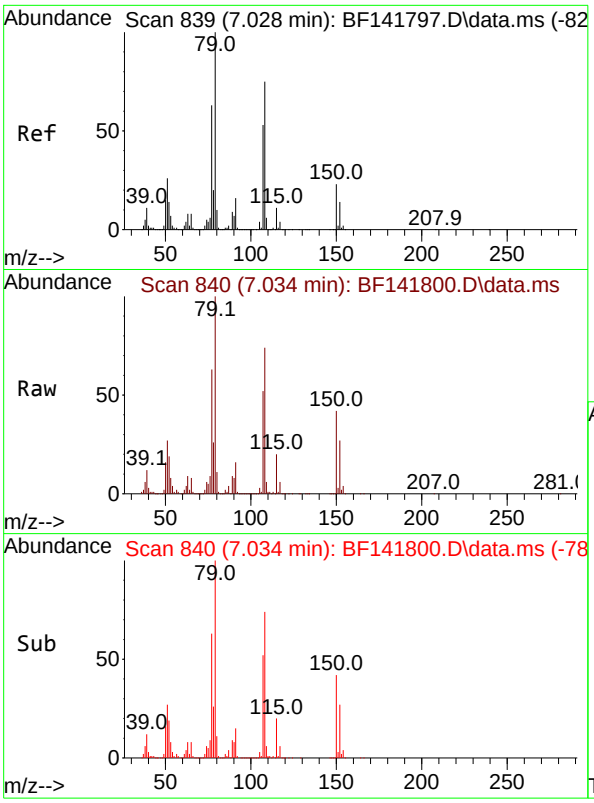


#14
1,2-Dichlorobenzene
Concen: 69.519 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 1370457

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.2	76.8
111	48.0	37.8	56.6





#15
Benzyl Alcohol
Concen: 72.454 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

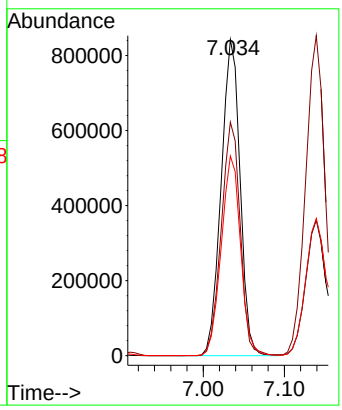
Tgt Ion: 79 Resp: 136309

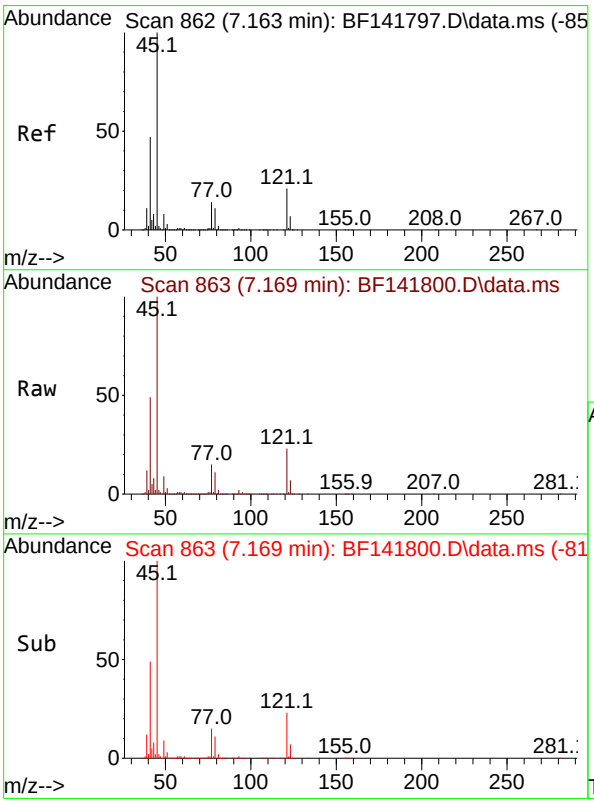
Ion	Ratio	Lower	Upper
79	100		
108	73.9	60.2	90.2
77	63.2	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

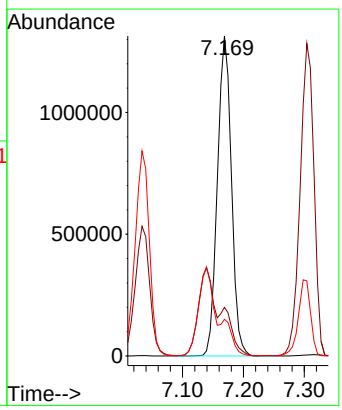


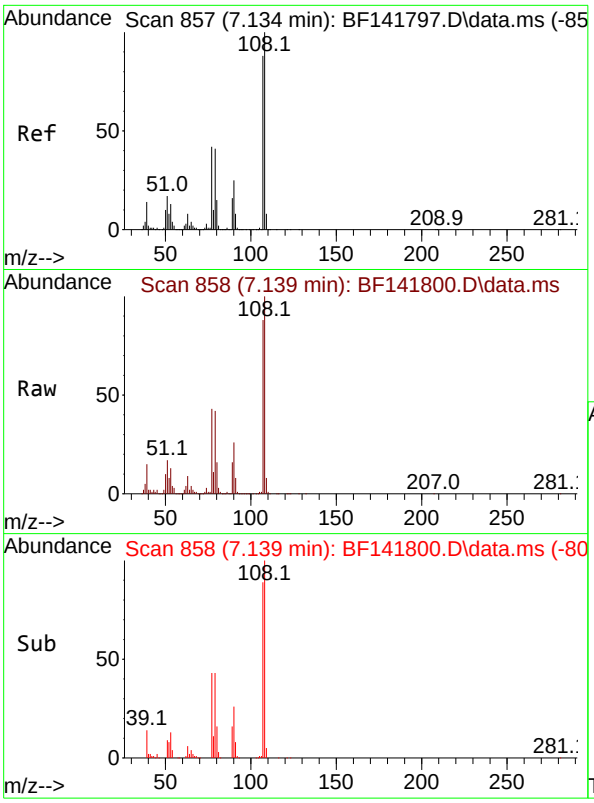


#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.973 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 45 Resp: 2095843

Ion	Ratio	Lower	Upper
45	100		
77	15.2	0.0	34.4
79	11.5	0.0	30.9

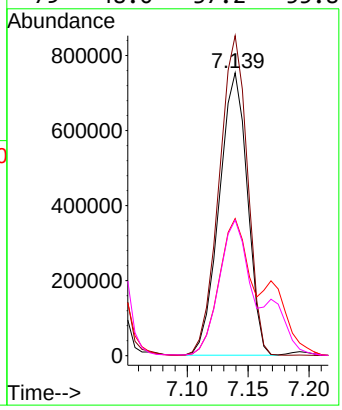




#17
2-Methylphenol
Concen: 75.016 ng
RT: 7.139 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 121143

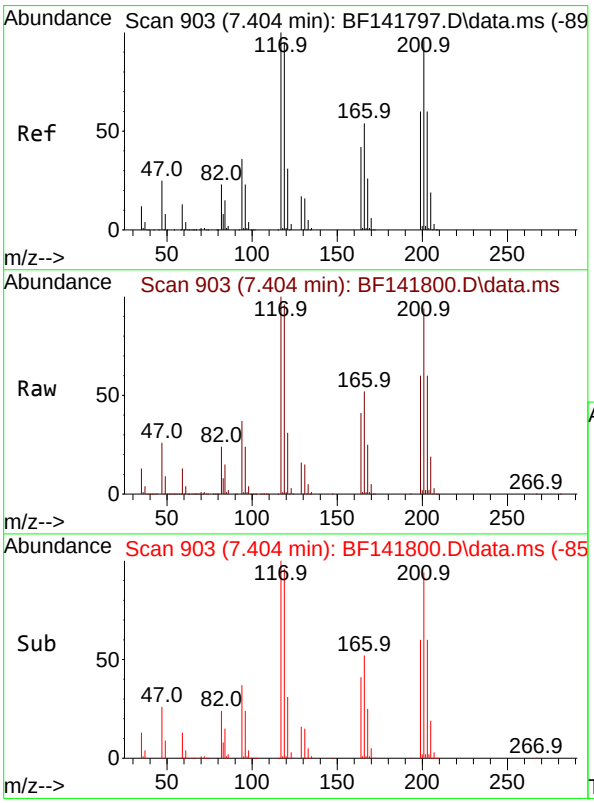
Ion	Ratio	Lower	Upper
107	100		
108	113.1	90.6	135.8
77	48.5	37.7	56.5
79	48.0	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

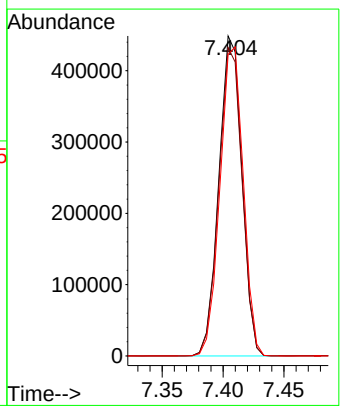
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

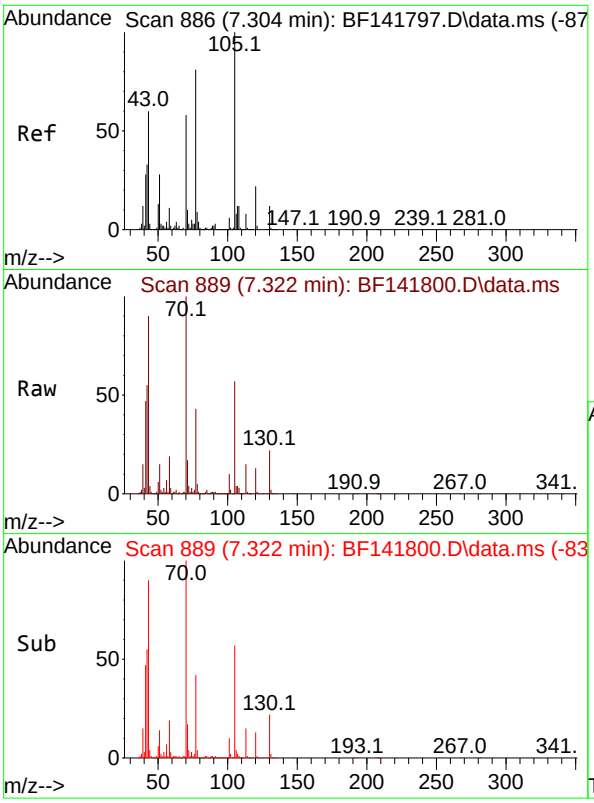


#18
Hexachloroethane
Concen: 75.056 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:117 Resp: 593057

Ion	Ratio	Lower	Upper
117	100		
119	96.3	75.8	113.8
201	94.2	76.7	115.1

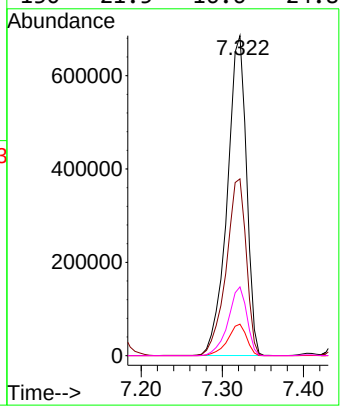




#19
n-Nitroso-di-n-propylamine
Concen: 72.793 ng
RT: 7.322 min Scan# 8
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 70 Resp: 112642

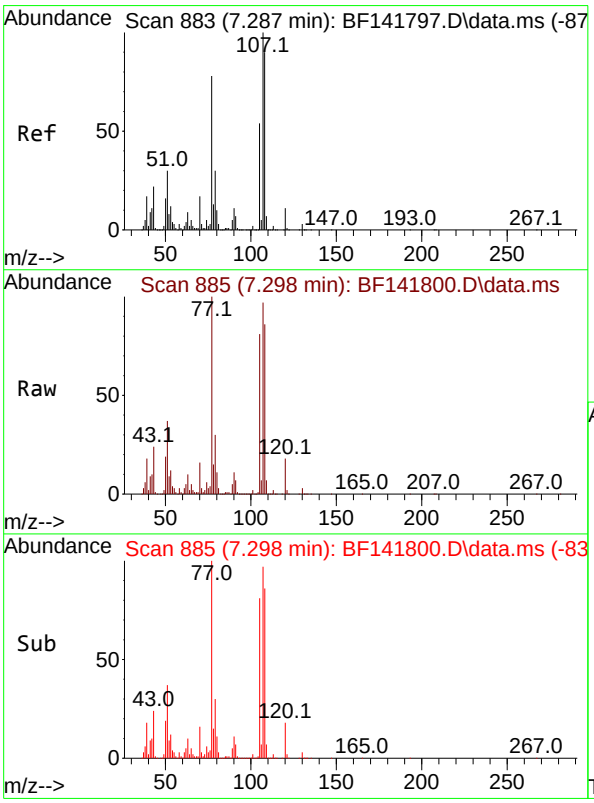
Ion	Ratio	Lower	Upper
70	100		
42	55.3	45.4	68.0
101	9.8	7.8	11.8
130	21.5	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

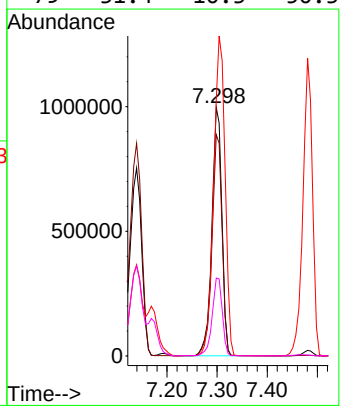
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

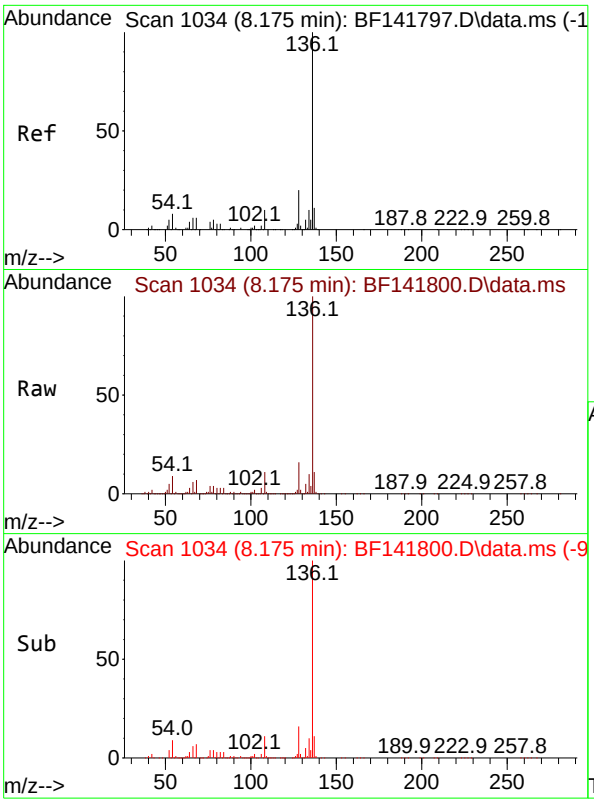


#20
3+4-Methylphenols
Concen: 68.816 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 1383814

Ion	Ratio	Lower	Upper
107	100		
108	89.1	69.7	109.7
77	103.3	58.3	98.3#
79	31.4	10.3	50.3

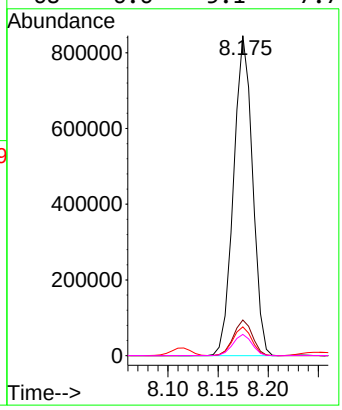




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:136 Resp: 111493

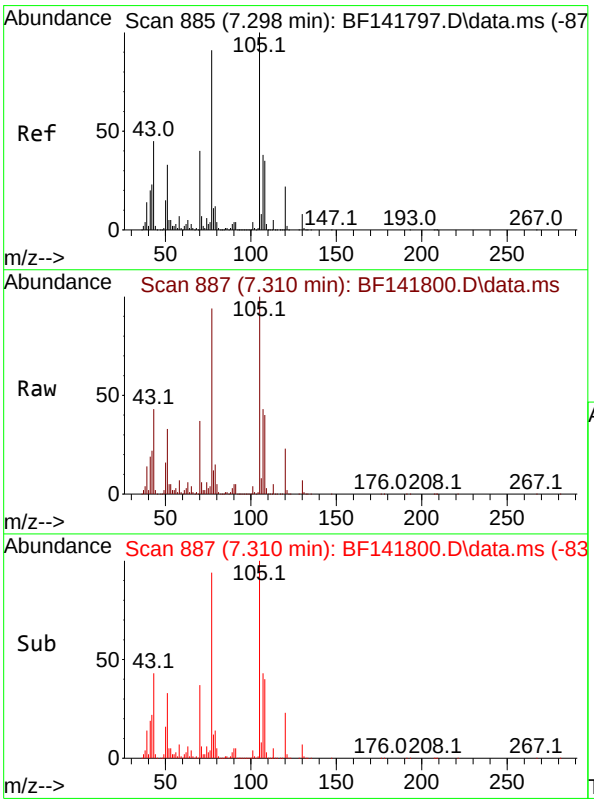
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.0	6.9	10.3
68	6.6	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

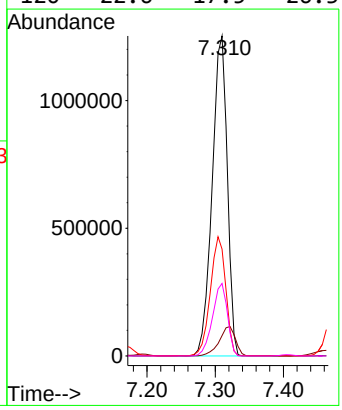
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

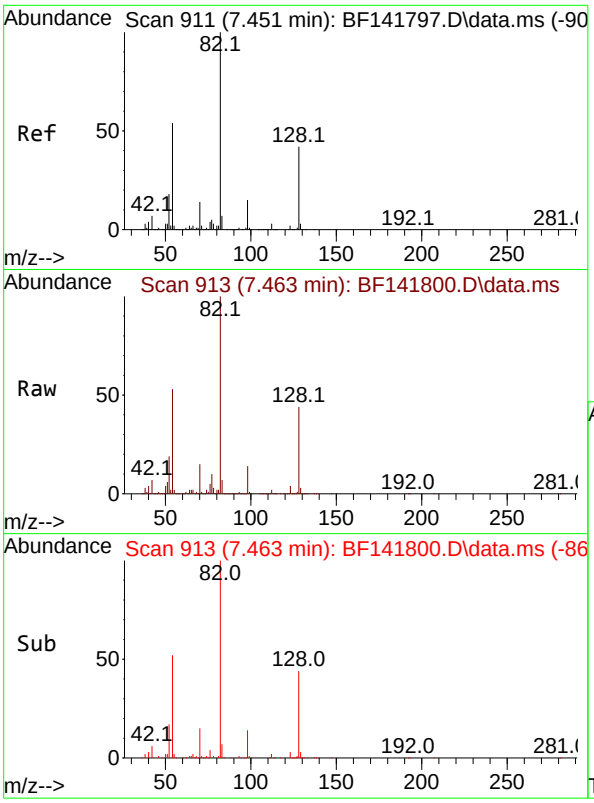


#22
Acetophenone
Concen: 71.209 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:105 Resp: 1933636

Ion	Ratio	Lower	Upper
105	100		
71	6.3	5.4	8.0
51	33.4	26.1	39.1
120	22.6	17.5	26.3

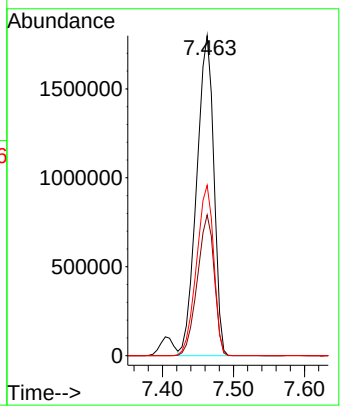




#23
Nitrobenzene-d5
Concen: 173.576 ng
RT: 7.463 min Scan# 9
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 302761

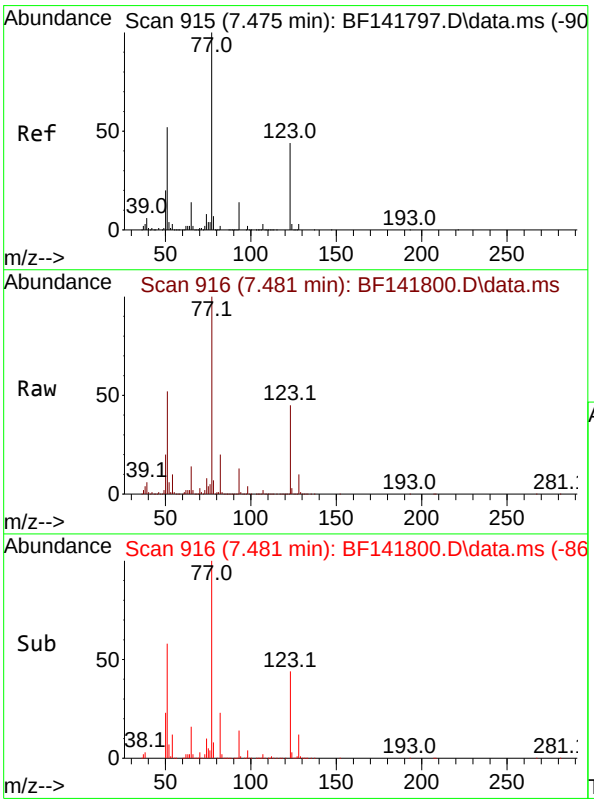
Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	53.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

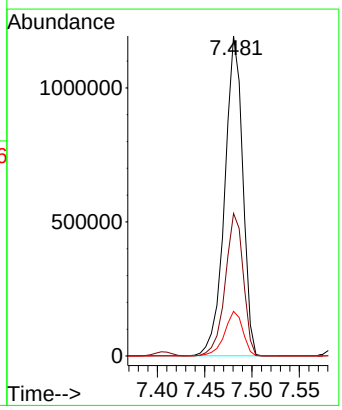
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

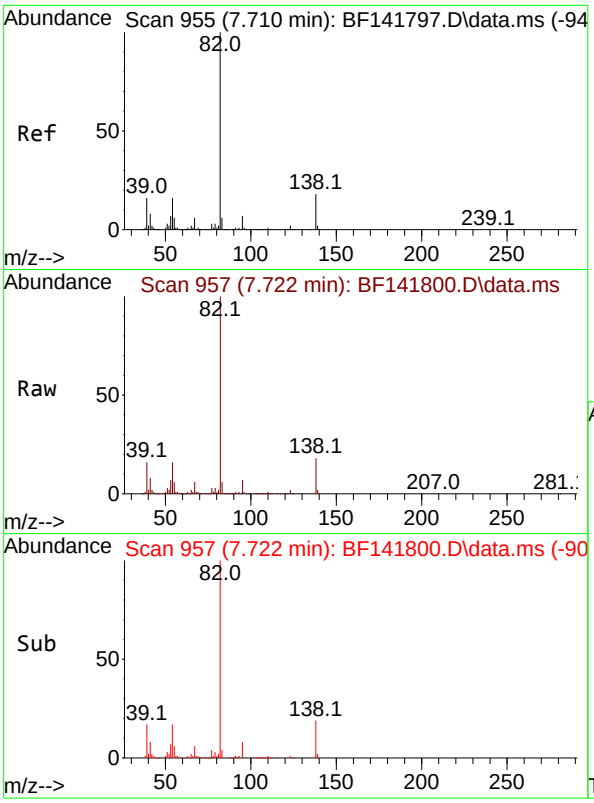


#24
Nitrobenzene
Concen: 84.587 ng
RT: 7.481 min Scan# 916
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 1579955

Ion	Ratio	Lower	Upper
77	100		
123	44.5	35.8	53.8
65	14.0	11.2	16.8

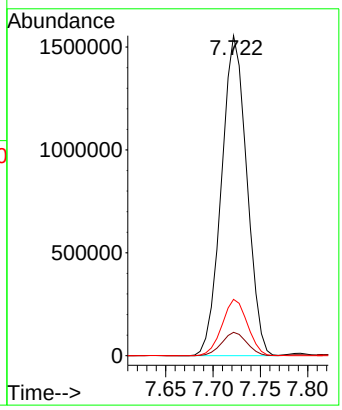




#25
Isophorone
Concen: 77.230 ng
RT: 7.722 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 289404

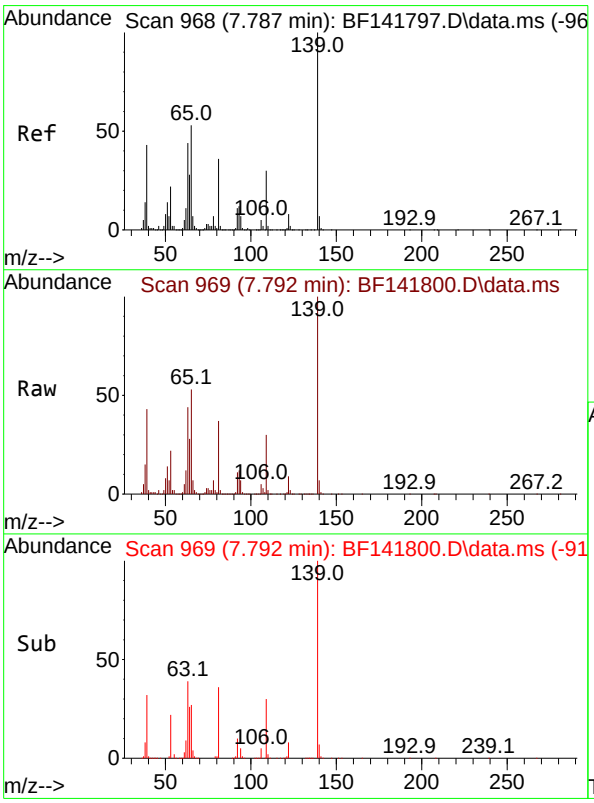
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.6	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

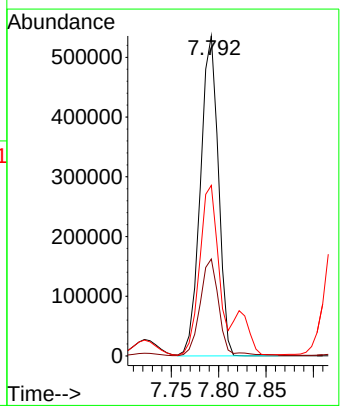
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

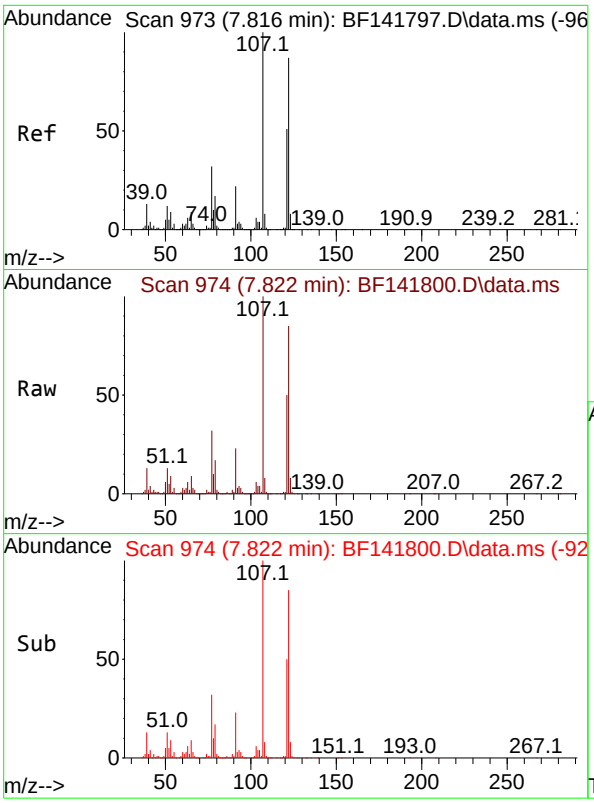


#26
2-Nitrophenol
Concen: 81.046 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.005 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:139 Resp: 705125

Ion	Ratio	Lower	Upper
139	100		
109	30.3	24.1	36.1
65	53.3	42.3	63.5

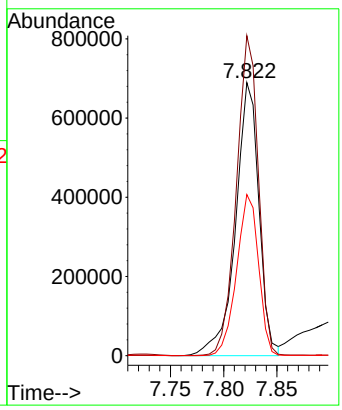




#27
2,4-Dimethylphenol
Concen: 76.304 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 105107

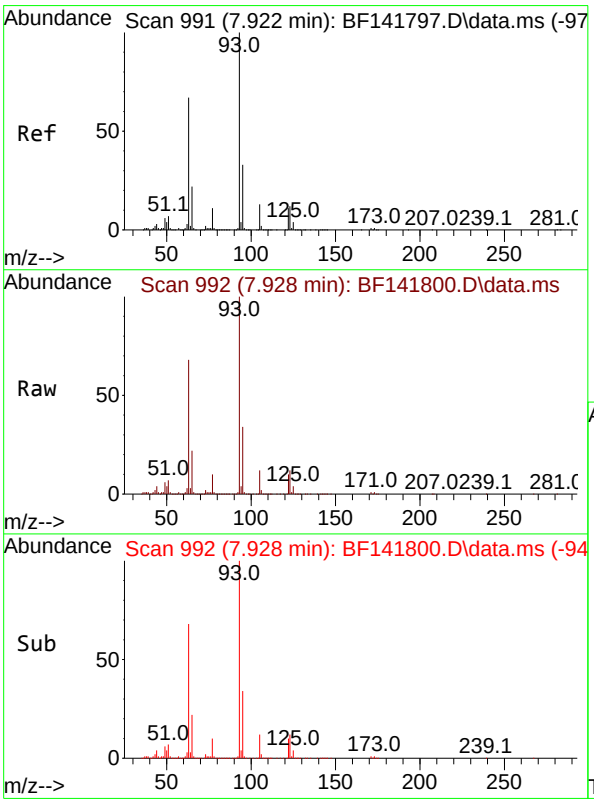
Ion	Ratio	Lower	Upper
122	100		
107	117.2	92.5	138.7
121	59.0	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

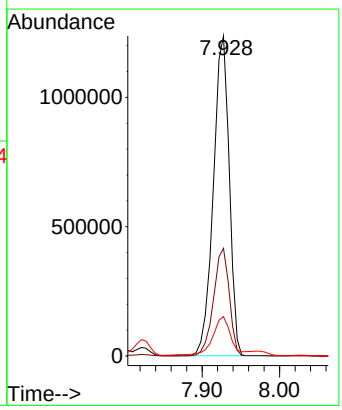
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

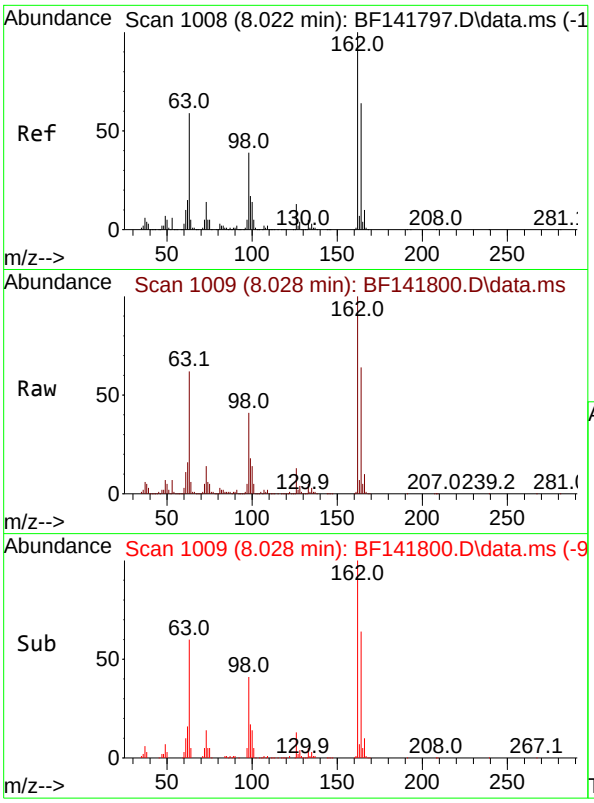


#28
bis(2-Chloroethoxy)methane
Concen: 73.596 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 1759255

Ion	Ratio	Lower	Upper
93	100		
95	33.7	26.5	39.7
123	12.3	10.0	15.0





#29
2,4-Dichlorophenol
Concen: 77.239 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

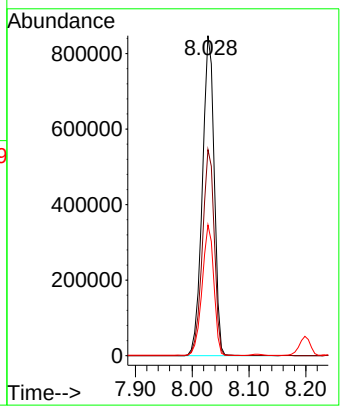
Tgt Ion:162 Resp: 122740

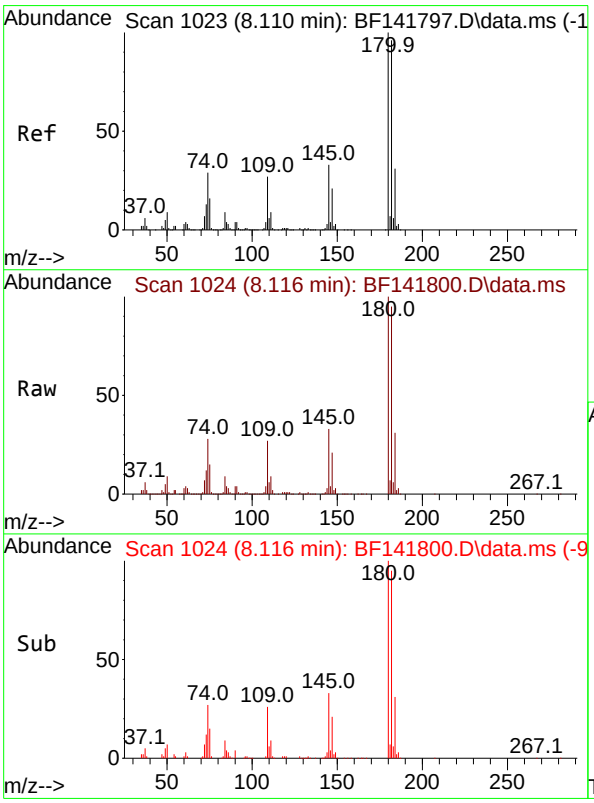
Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.3	84.3
98	40.8	19.6	59.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

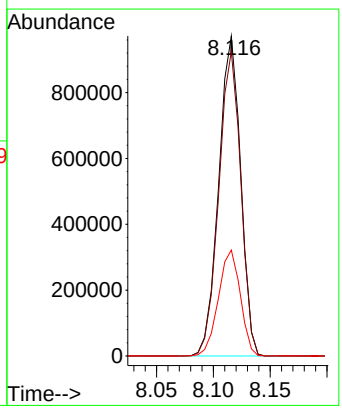


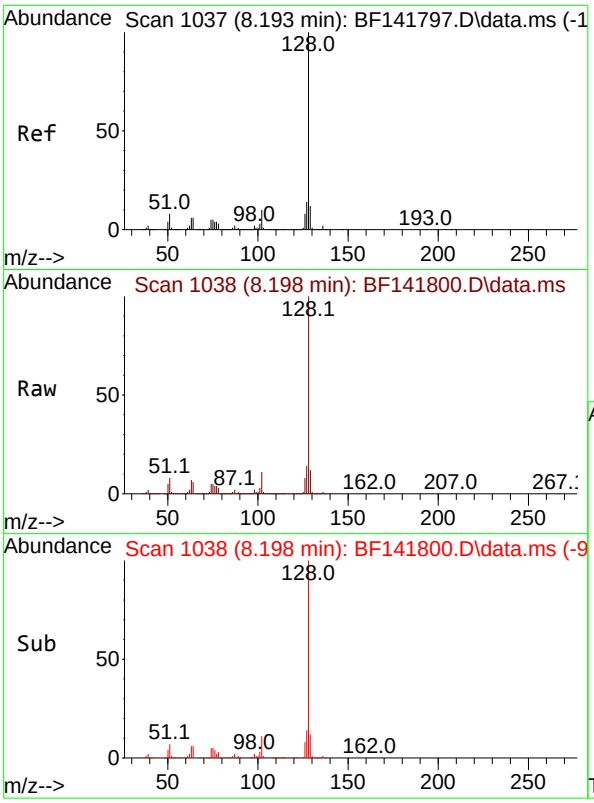


#30
1,2,4-Trichlorobenzene
Concen: 74.888 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:180 Resp: 1304033

Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
145	33.1	26.4	39.6





#31
Naphthalene
Concen: 70.504 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

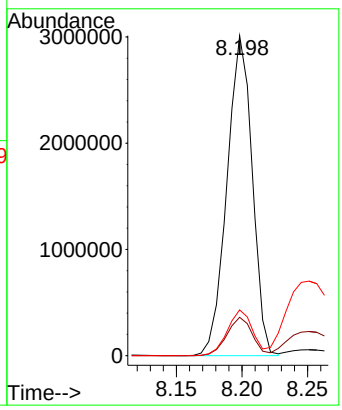
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

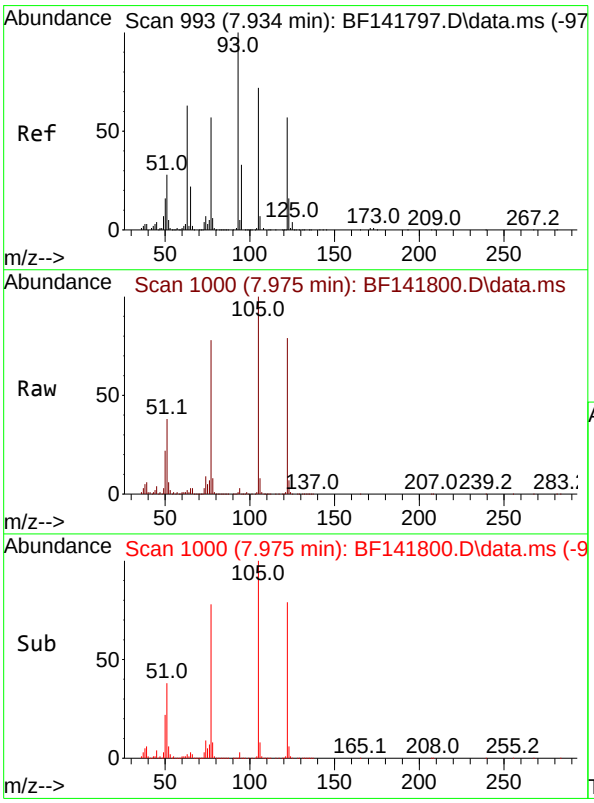
Tgt Ion:128 Resp: 404011

Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.2	13.8
127	14.3	11.0	16.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

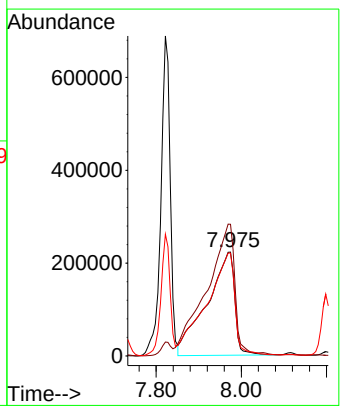


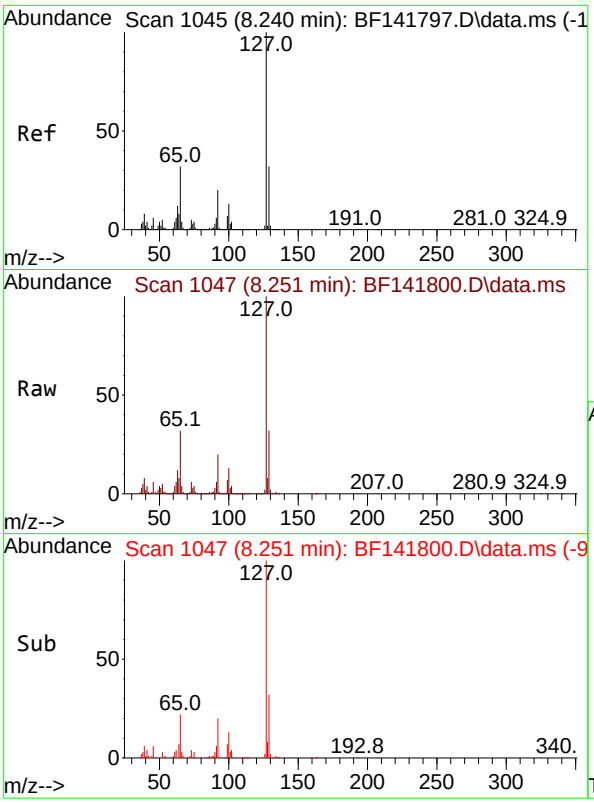


#32
Benzoic acid
Concen: 81.363 ng
RT: 7.975 min Scan# 1000
Delta R.T. 0.041 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 1008619

Ion	Ratio	Lower	Upper
122	100		
105	126.8	105.8	145.8
77	99.0	79.9	119.9

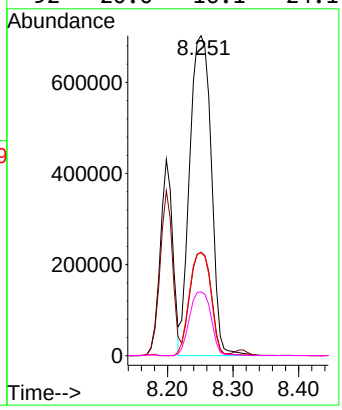




#33
4-Chloroaniline
Concen: 76.489 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:127 Resp: 160709

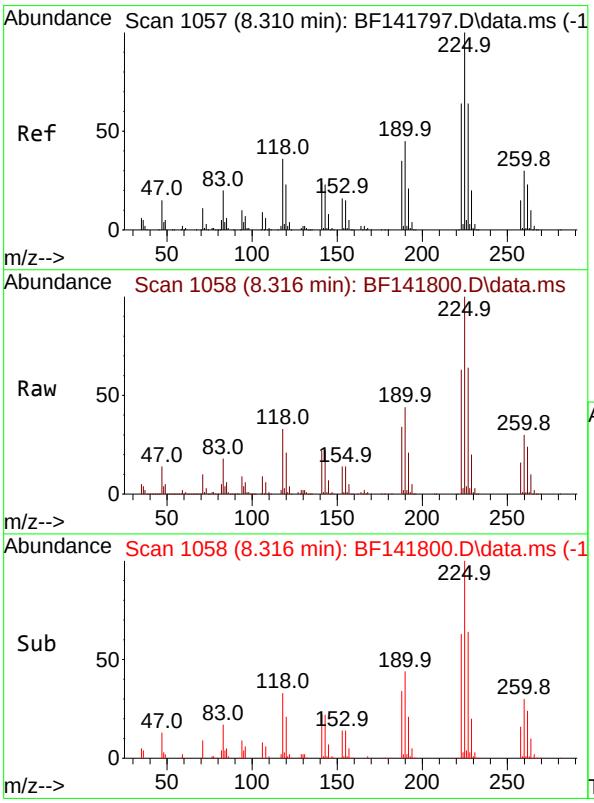
Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.1	39.1
65	32.2	25.7	38.5
92	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

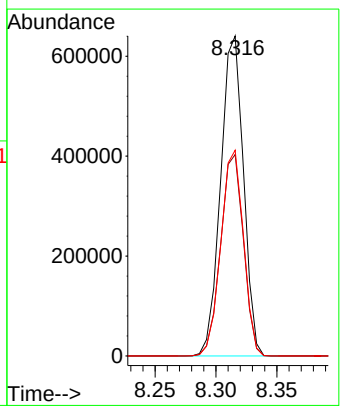
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

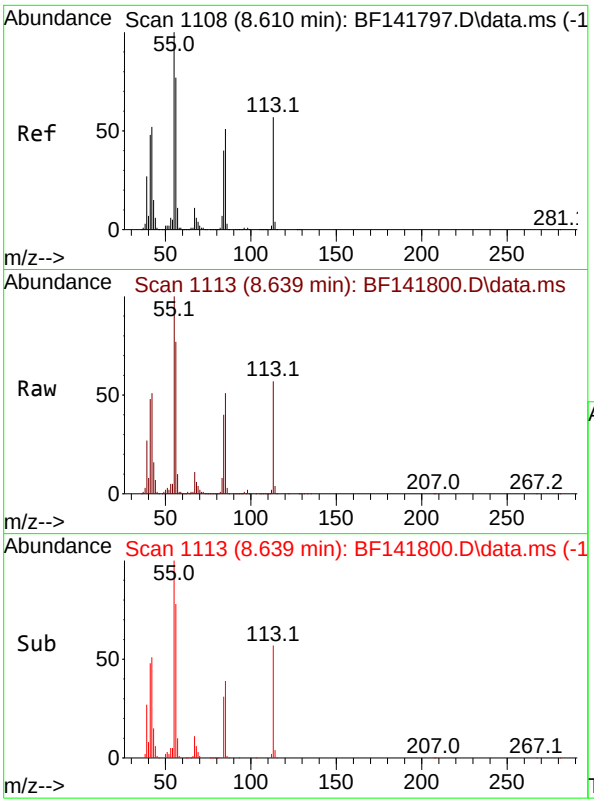


#34
Hexachlorobutadiene
Concen: 77.265 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:225 Resp: 836069

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.4	77.2
227	64.3	51.6	77.4





#35
Caprolactam
Concen: 78.359 ng
RT: 8.639 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

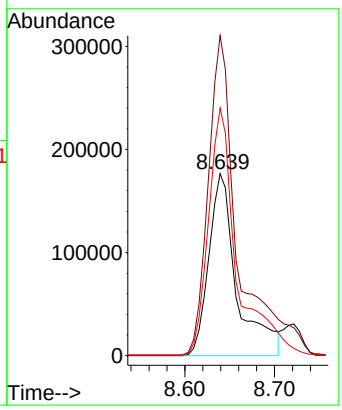
Tgt Ion:113 Resp: 38314

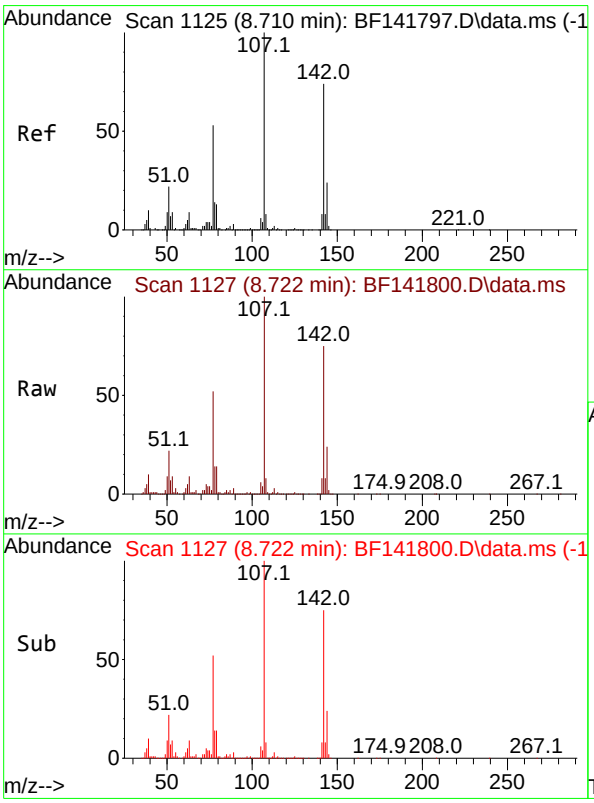
Ion	Ratio	Lower	Upper
113	100		
55	175.7	155.6	195.6
56	136.0	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

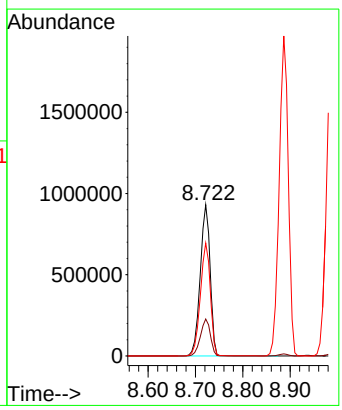


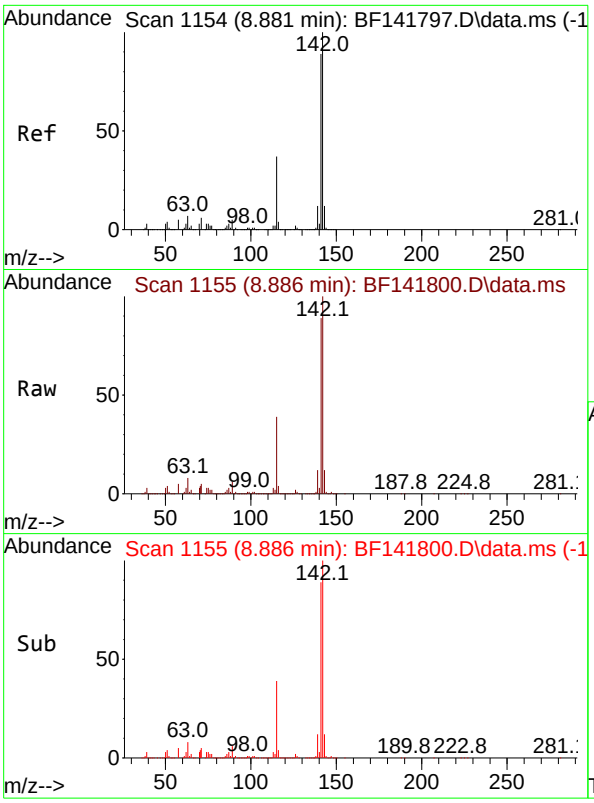


#36
4-Chloro-3-methylphenol
Concen: 76.431 ng
RT: 8.722 min Scan# 1127
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 1349234

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.4	29.0
142	74.7	59.4	89.0

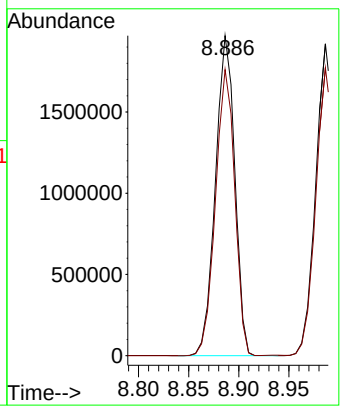




#37
2-Methylnaphthalene
Concen: 70.167 ng
RT: 8.886 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 263730

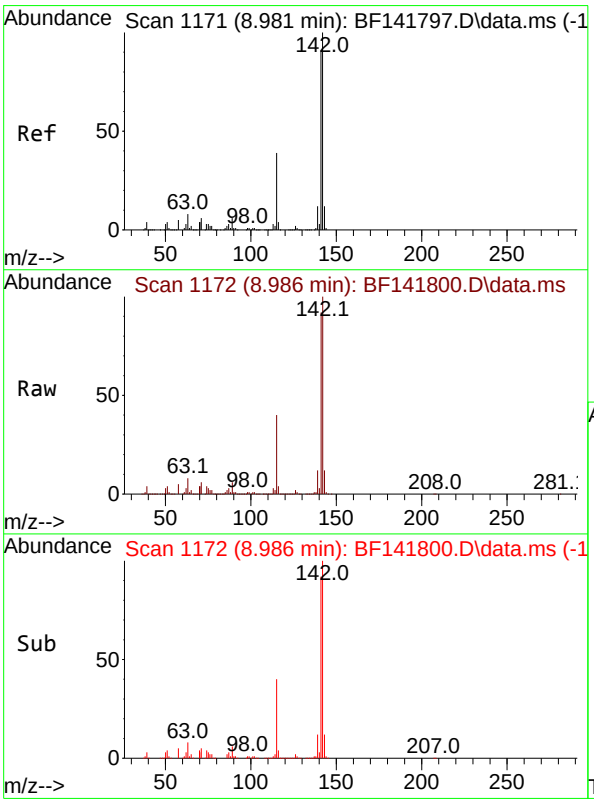
Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

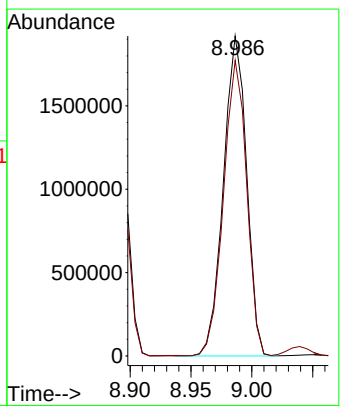
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

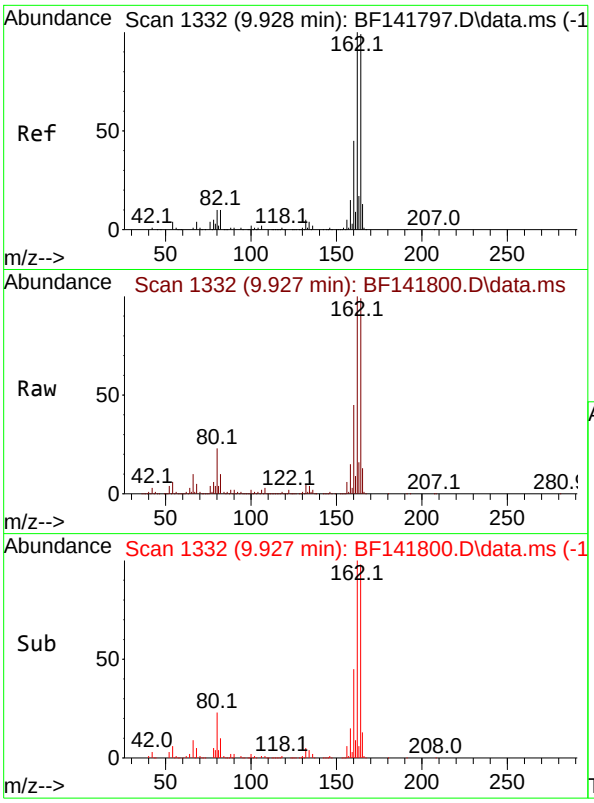


#38
1-Methylnaphthalene
Concen: 70.457 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 2541019

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

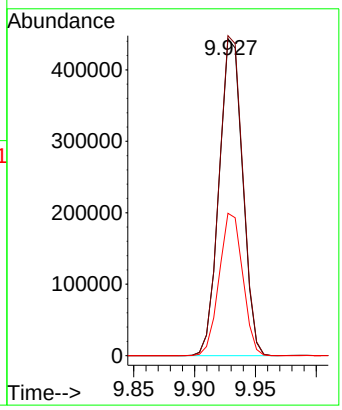




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:164 Resp: 59668

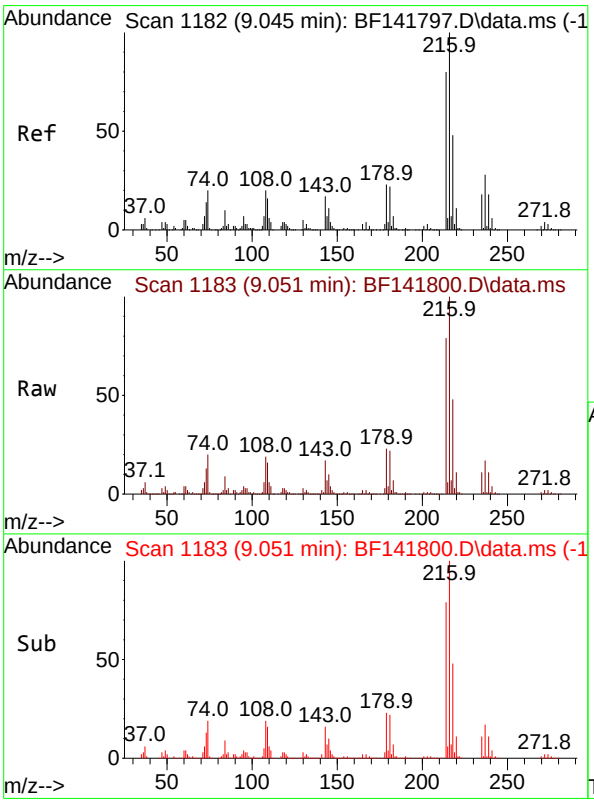
Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.6	120.8
160	44.9	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

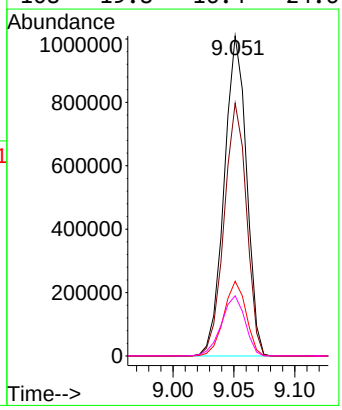
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

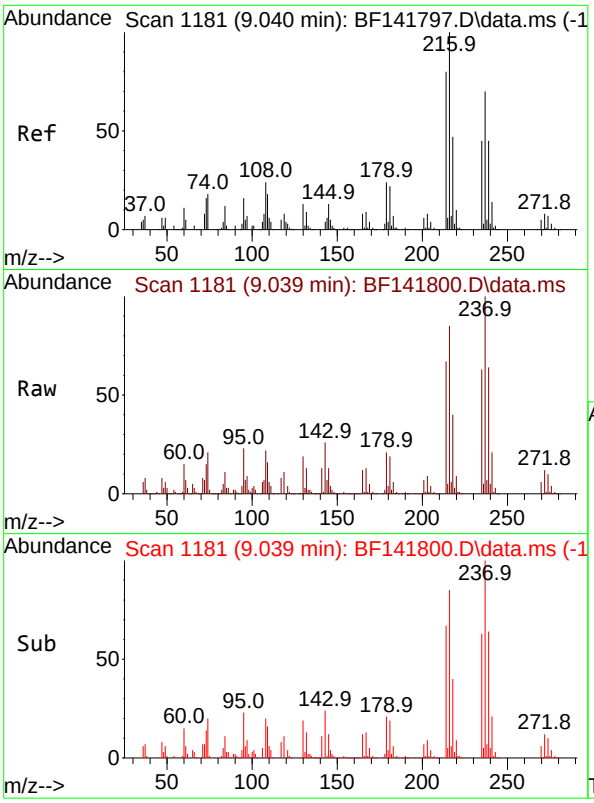


#40
1,2,4,5-Tetrachlorobenzene
Concen: 74.773 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:216 Resp: 1288540

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.5	95.3
179	23.2	18.1	27.1
108	19.8	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 78.461 ng
RT: 9.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

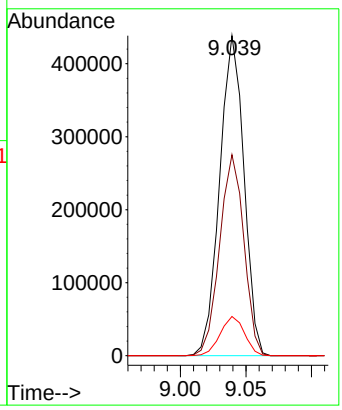
Tgt Ion:237 Resp: 56426

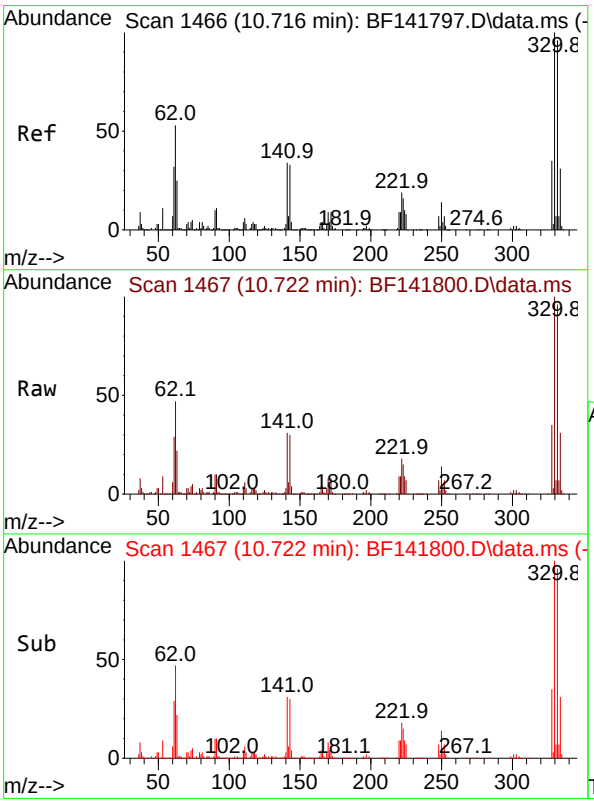
Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.3	83.3
272	12.3	0.0	31.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

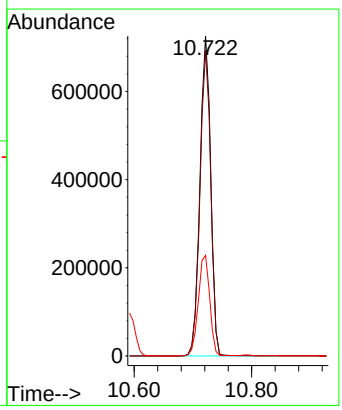


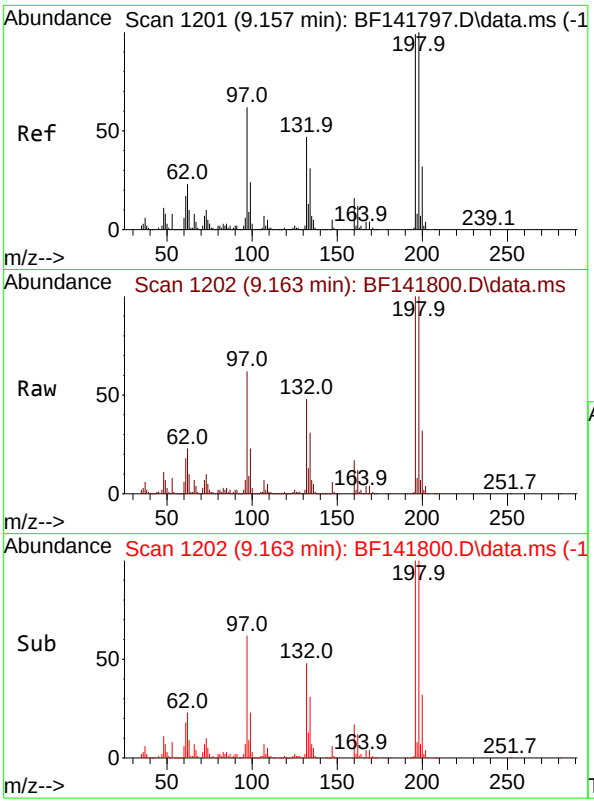


#42
2,4,6-Tribromophenol
Concen: 164.969 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:330 Resp: 924112

Ion	Ratio	Lower	Upper
330	100		
332	95.4	76.6	115.0
141	33.3	29.0	43.4

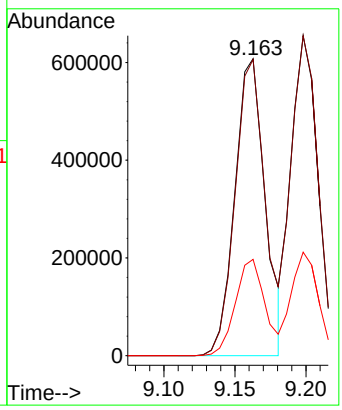




#43
2,4,6-Trichlorophenol
Concen: 80.742 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 89879

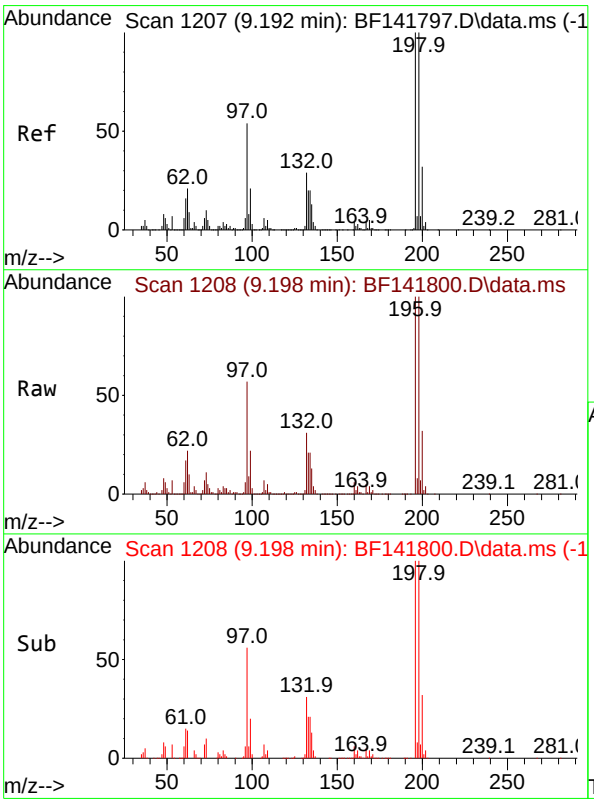
Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.4	120.6
200	32.4	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

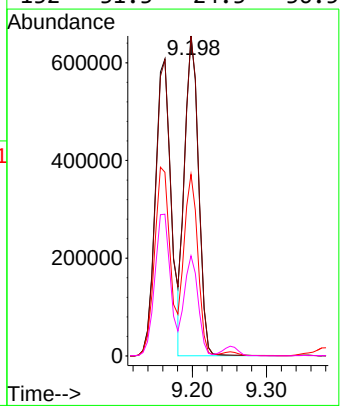
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

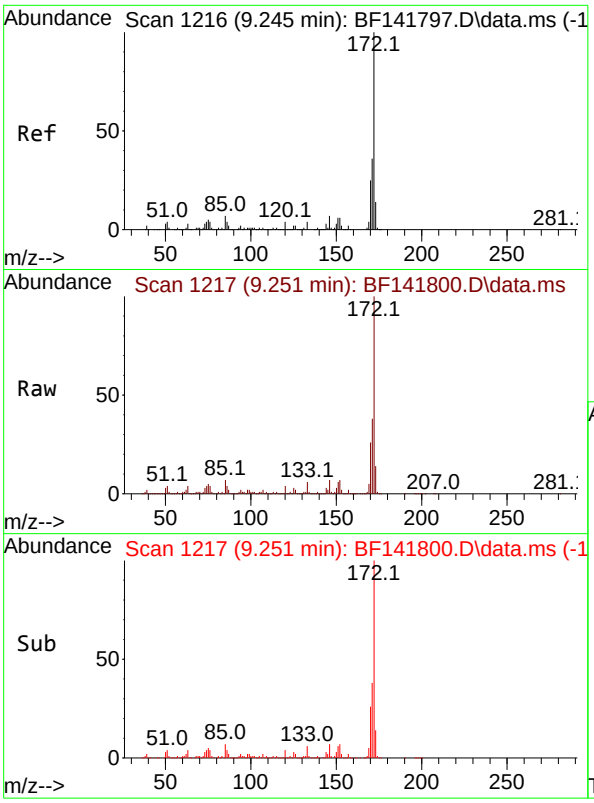


#44
2,4,5-Trichlorophenol
Concen: 77.984 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 859610

Ion	Ratio	Lower	Upper
196	100		
198	99.9	79.7	119.5
97	56.8	44.2	66.2
132	31.3	24.3	36.5

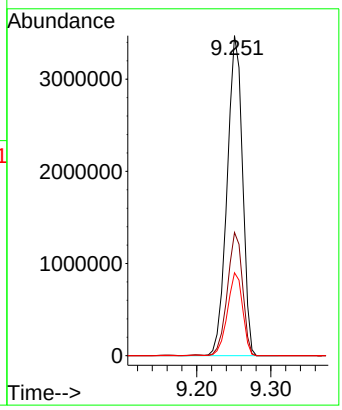




#45
2-Fluorobiphenyl
Concen: 134.541 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:172 Resp: 500660

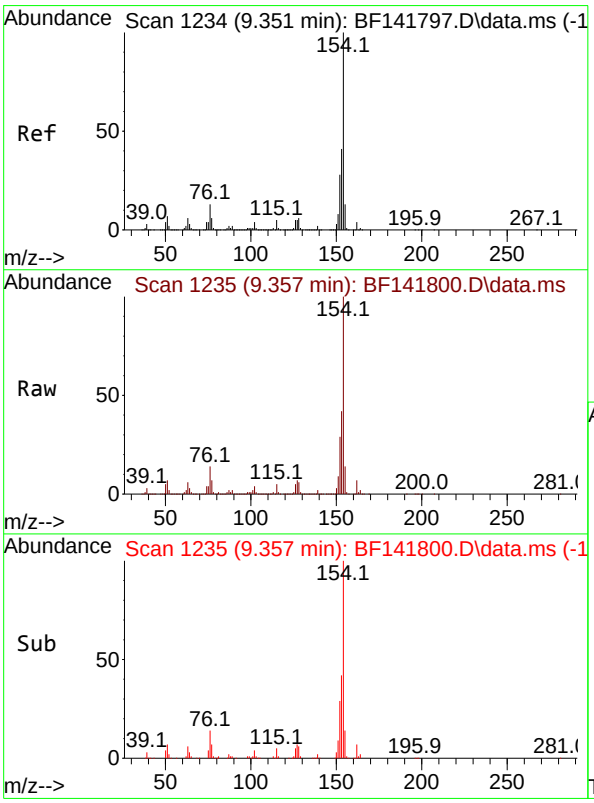
Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.2	43.8
170	25.9	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

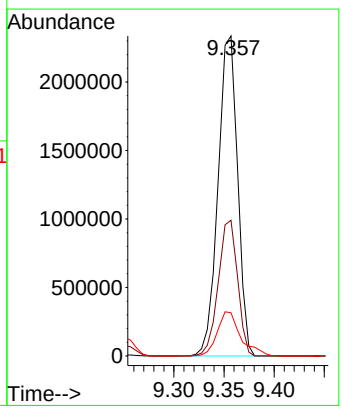
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

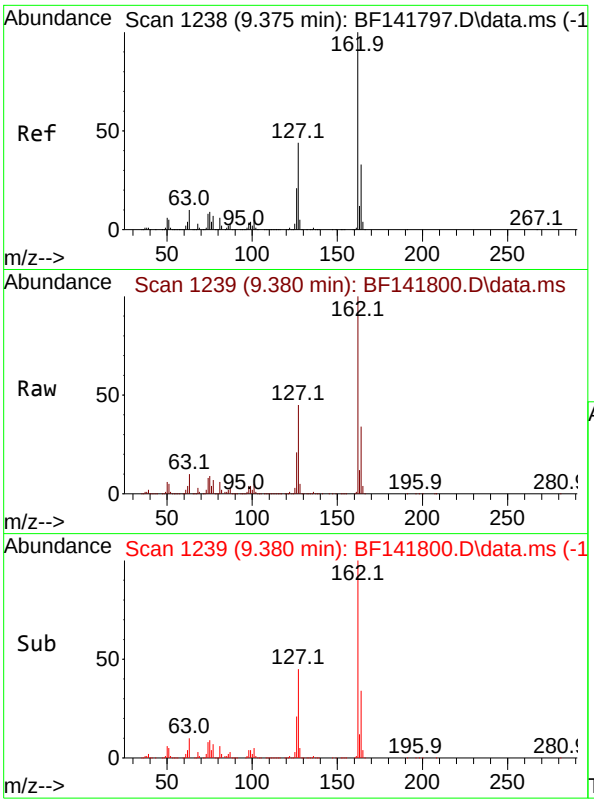


#46
1,1'-Biphenyl
Concen: 69.499 ng
RT: 9.357 min Scan# 1235
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:154 Resp: 3156440

Ion	Ratio	Lower	Upper
154	100		
153	42.4	21.4	61.4
76	13.5	0.0	33.4

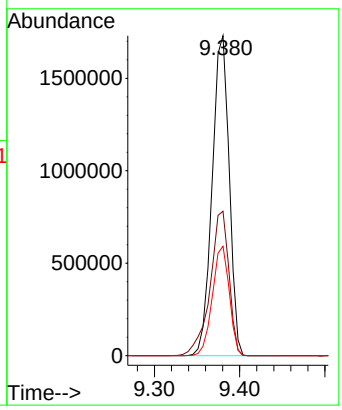




#47
2-Chloronaphthalene
Concen: 71.641 ng
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:162 Resp: 240146

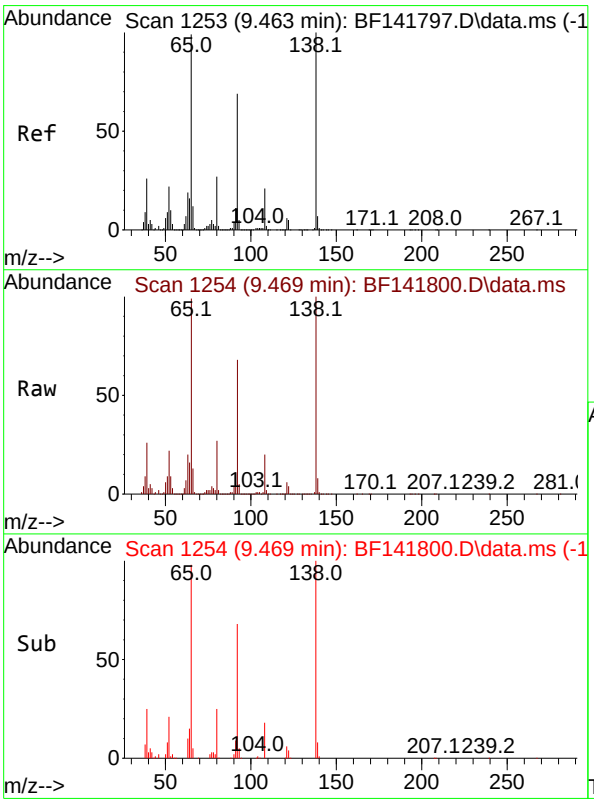
Ion	Ratio	Lower	Upper
162	100		
127	45.2	35.0	52.6
164	34.2	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

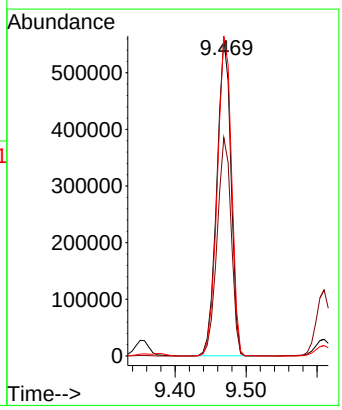
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

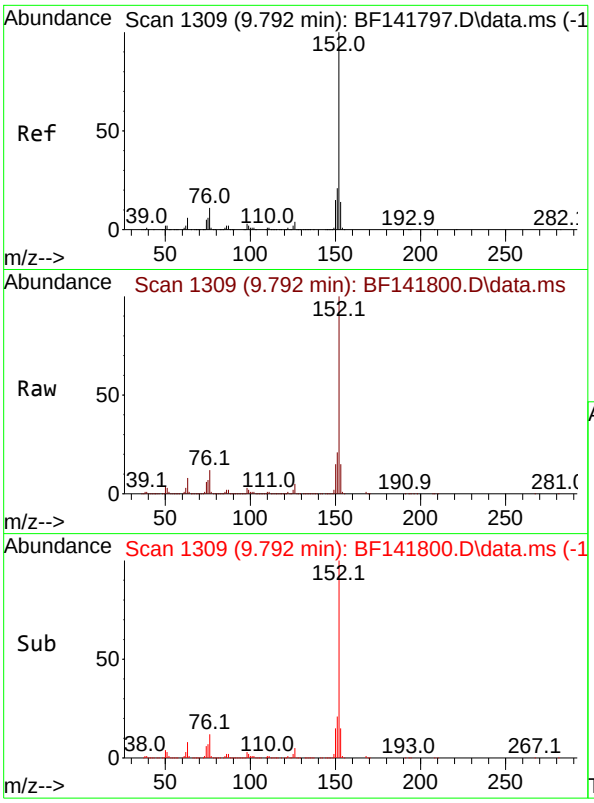


#48
2-Nitroaniline
Concen: 80.727 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 65 Resp: 770567

Ion	Ratio	Lower	Upper
65	100		
92	68.7	55.7	83.5
138	100.7	80.6	121.0

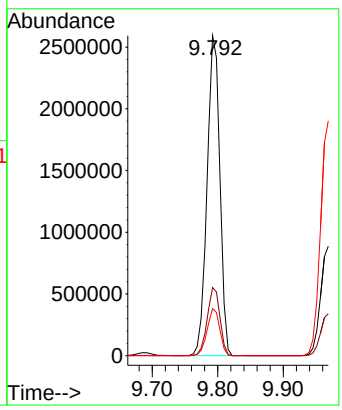




#49
Acenaphthylene
Concen: 69.880 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 351207

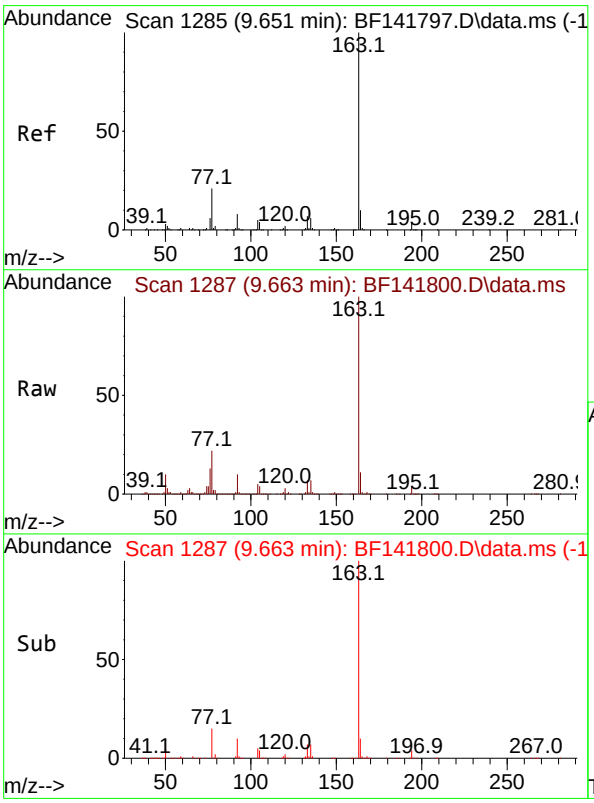
Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.6	24.8
153	14.7	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

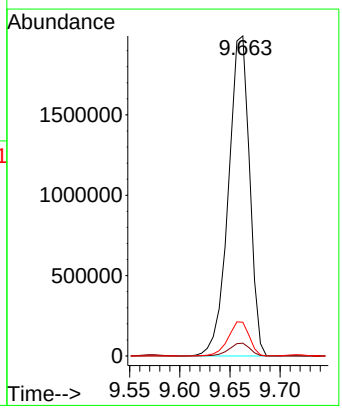
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

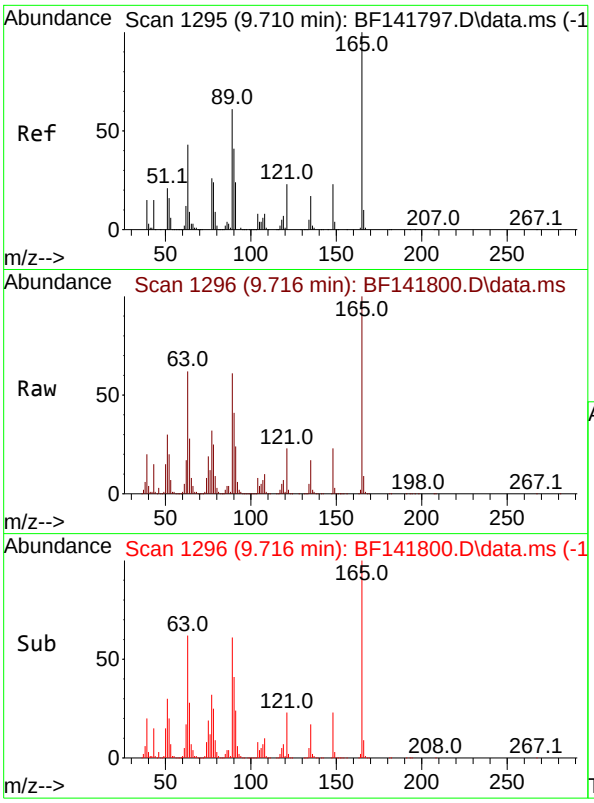


#50
Dimethylphthalate
Concen: 73.107 ng
RT: 9.663 min Scan# 1287
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:163 Resp: 2921217

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.5	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 79.481 ng
RT: 9.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

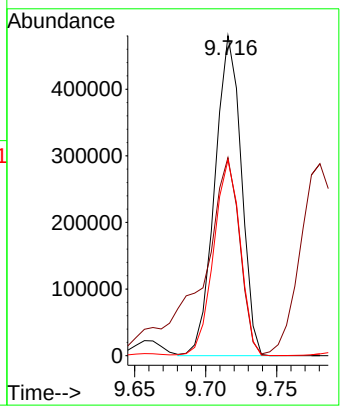
Tgt Ion:165 Resp: 62262

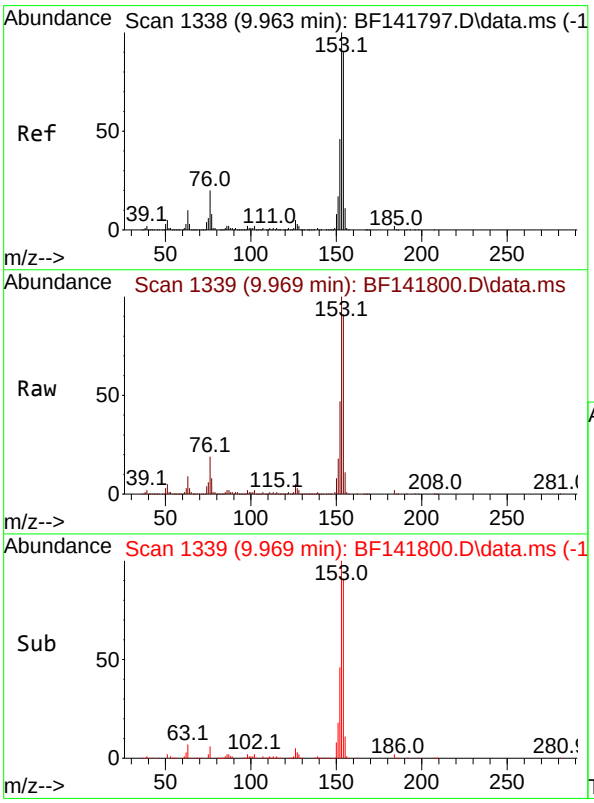
Ion	Ratio	Lower	Upper
165	100		
63	61.9	49.5	74.3
89	61.1	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

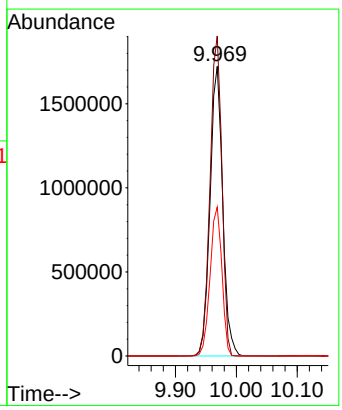


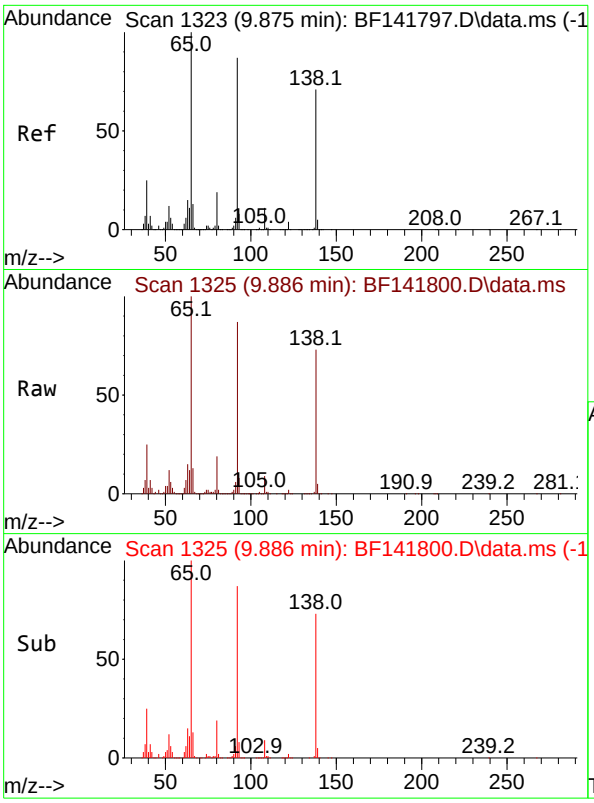


#52
Acenaphthene
Concen: 73.139 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:154 Resp: 2480302

Ion	Ratio	Lower	Upper
154	100		
153	110.5	88.7	133.1
152	51.5	40.9	61.3





#53
3-Nitroaniline
Concen: 79.835 ng
RT: 9.886 min Scan# 1
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

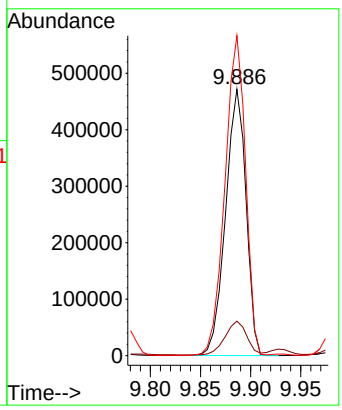
Tgt Ion:138 Resp: 66711

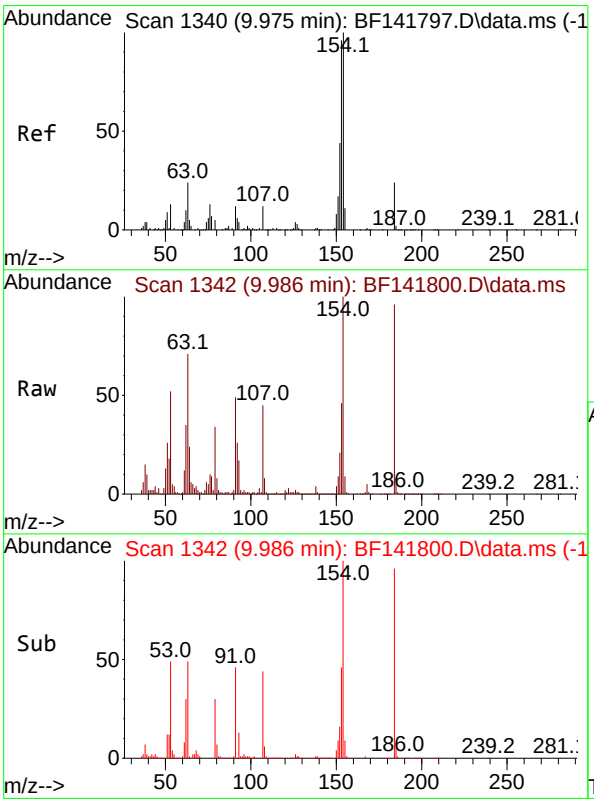
Ion	Ratio	Lower	Upper
138	100		
108	13.0	12.7	19.1
92	120.1	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

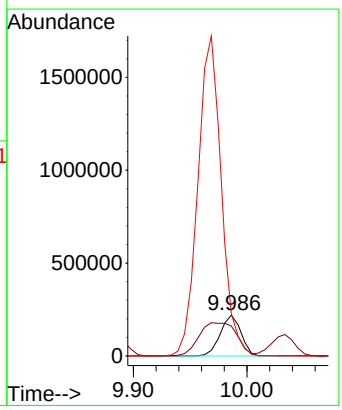


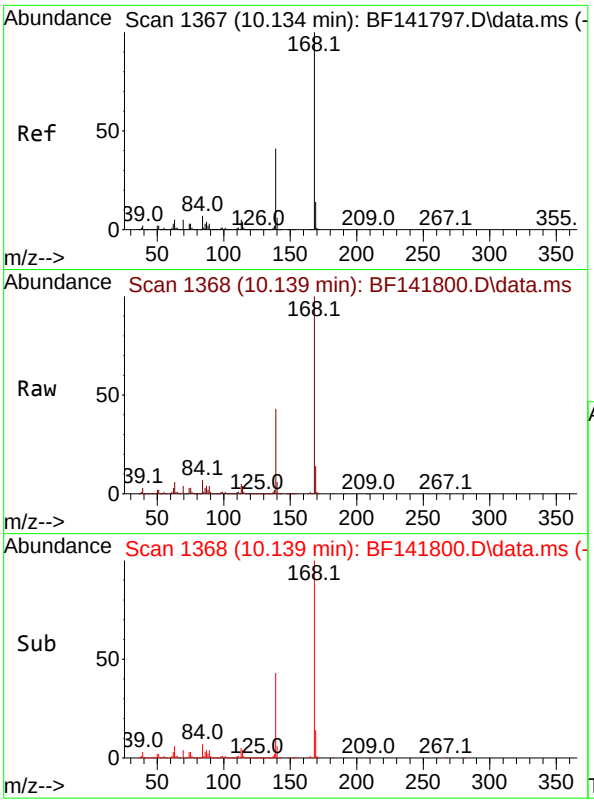


#54
2,4-Dinitrophenol
Concen: 79.409 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:184 Resp: 277943

Ion	Ratio	Lower	Upper
184	100		
63	73.4	79.0	118.6#
154	103.9	335.8	503.8#

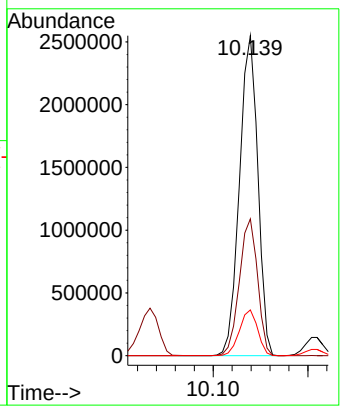




#55
Dibenzofuran
Concen: 69.448 ng
RT: 10.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:168 Resp: 342789

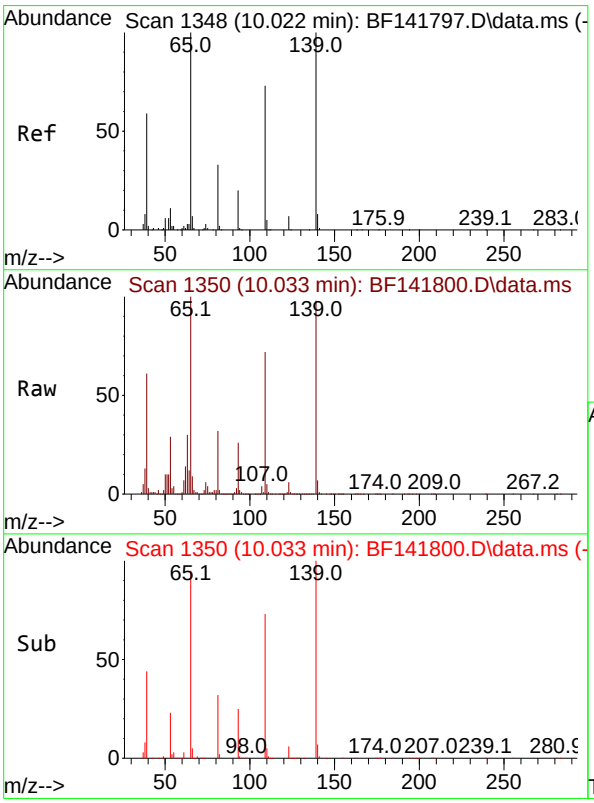
Ion	Ratio	Lower	Upper
168	100		
139	42.7	32.9	49.3
169	14.3	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

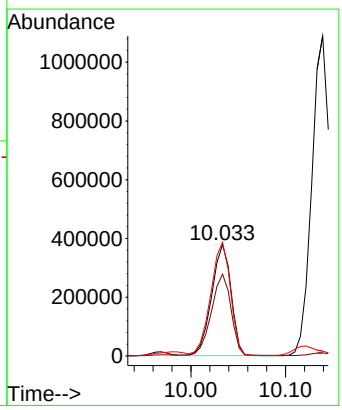
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

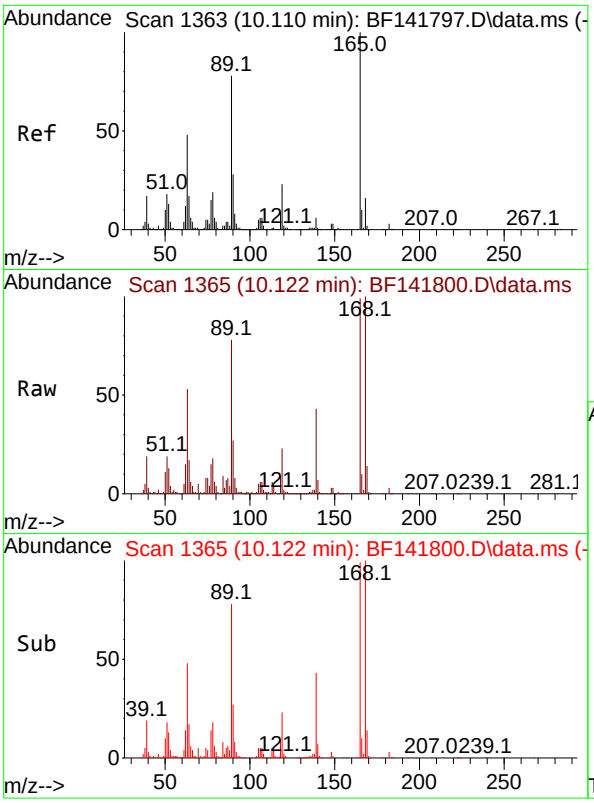


#56
4-Nitrophenol
Concen: 91.723 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:139 Resp: 541317

Ion	Ratio	Lower	Upper
139	100		
109	73.6	53.4	93.4
65	102.2	82.1	122.1

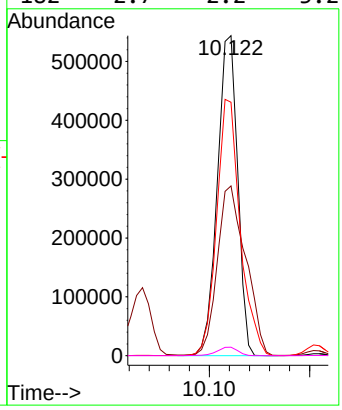




#57
2,4-Dinitrotoluene
Concen: 79.344 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:165 Resp: 76401

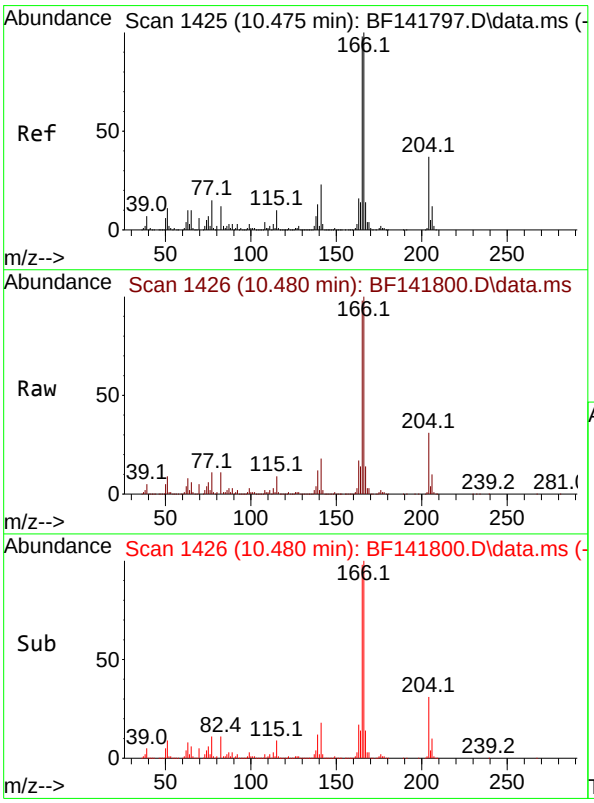
Ion	Ratio	Lower	Upper
165	100		
63	53.1	38.8	58.2
89	79.2	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

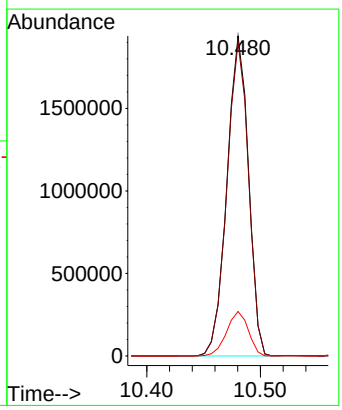
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

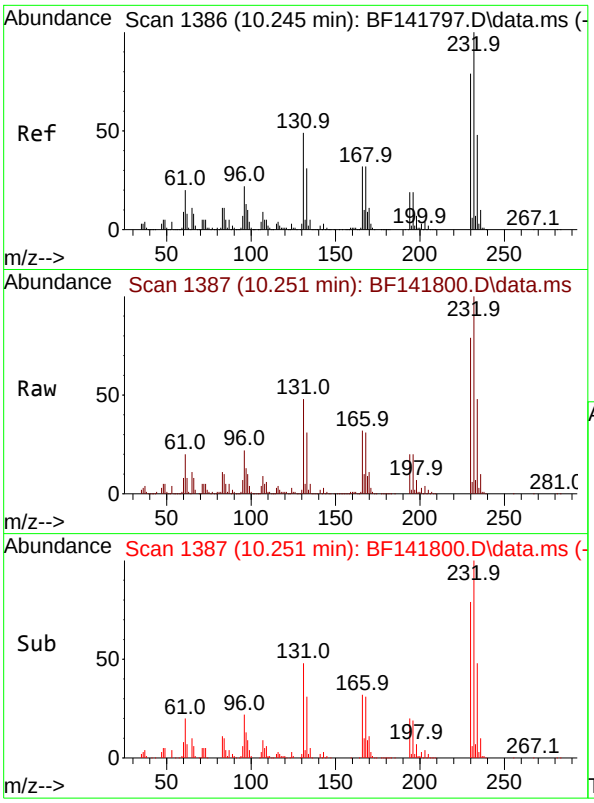


#58
Fluorene
Concen: 69.170 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:166 Resp: 2557382

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.6	117.8
167	13.9	11.0	16.4

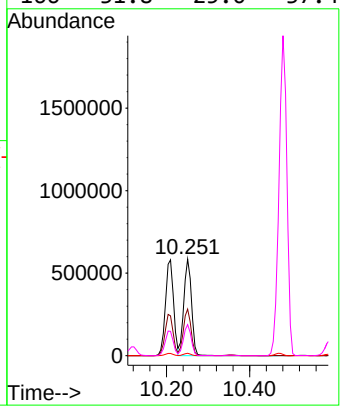




#59
2,3,4,6-Tetrachlorophenol
Concen: 78.537 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:232 Resp: 75291

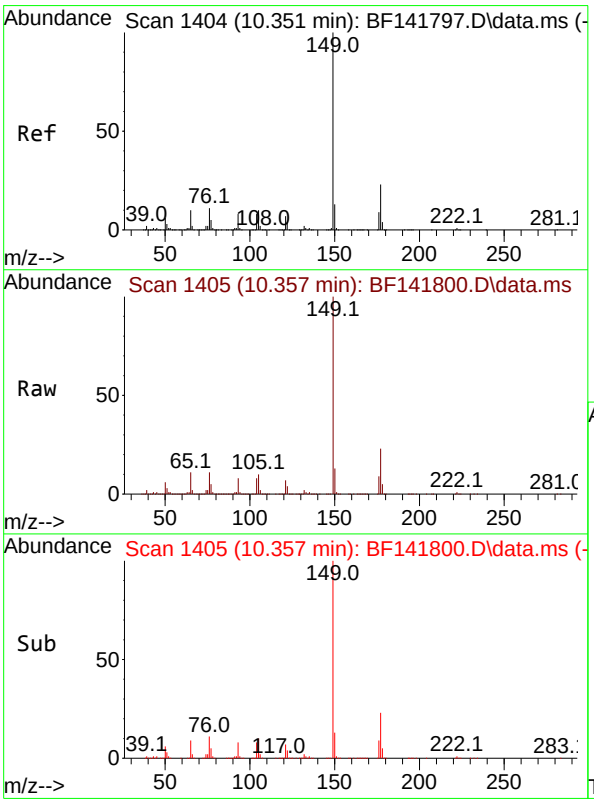
Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.8	56.8
130	2.4	2.0	3.0
166	31.8	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

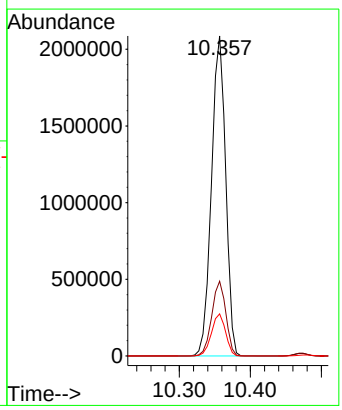
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

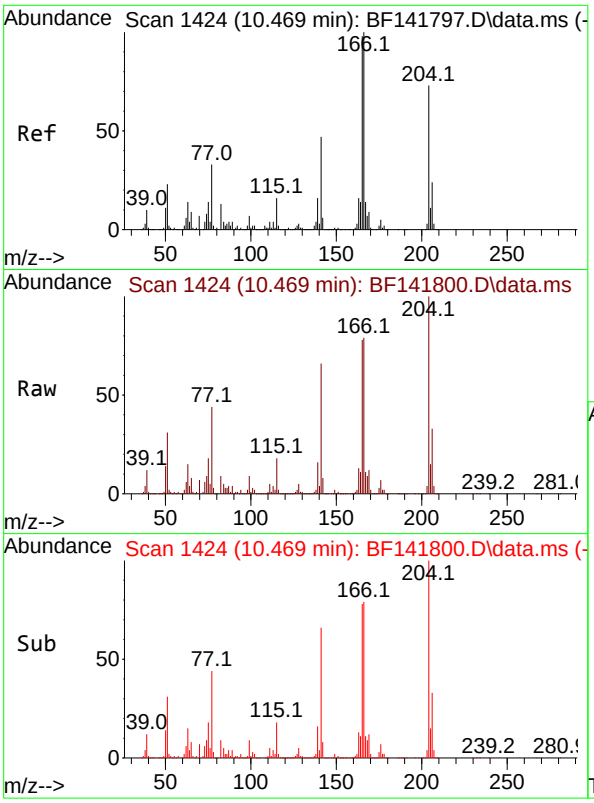


#60
Diethylphthalate
Concen: 72.232 ng
RT: 10.357 min Scan# 1405
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 2893471

Ion	Ratio	Lower	Upper
149	100		
177	23.3	18.3	27.5
150	13.2	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 72.414 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

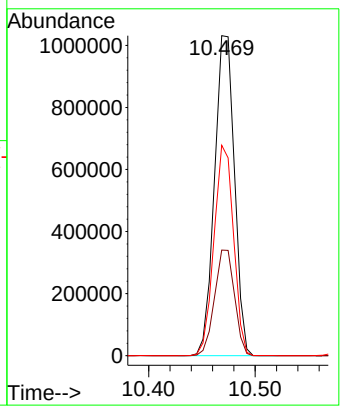
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

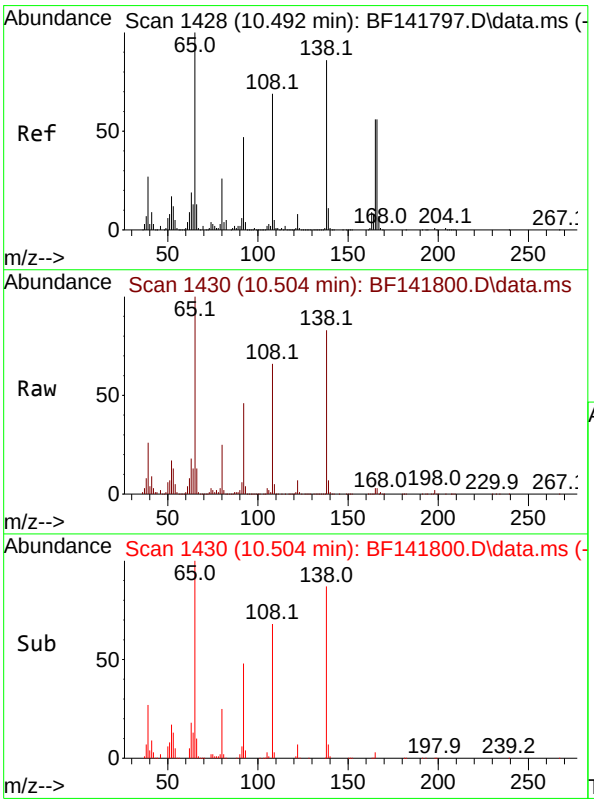
Tgt Ion:204 Resp: 134144

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.2	39.4
141	65.7	51.7	77.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

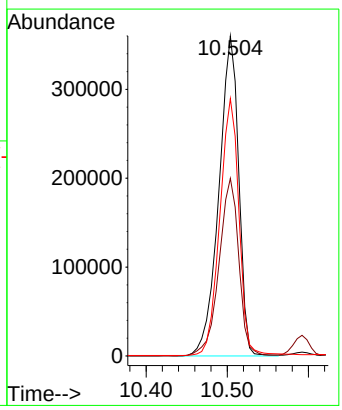


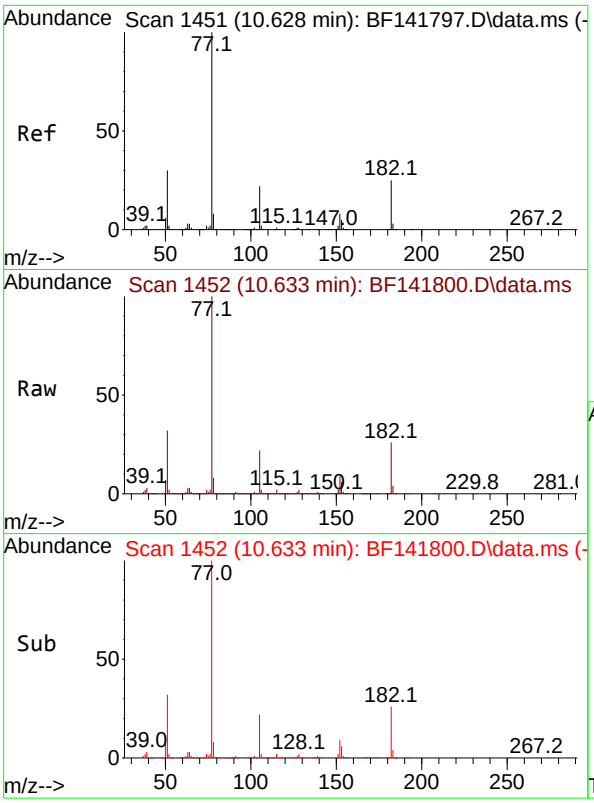


#62
4-Nitroaniline
Concen: 89.663 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:138 Resp: 611855

Ion	Ratio	Lower	Upper
138	100		
92	55.5	34.9	74.9
108	80.4	59.6	99.6

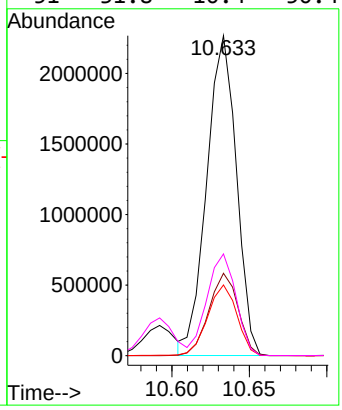




#63
Azobenzene
Concen: 71.441 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 301318

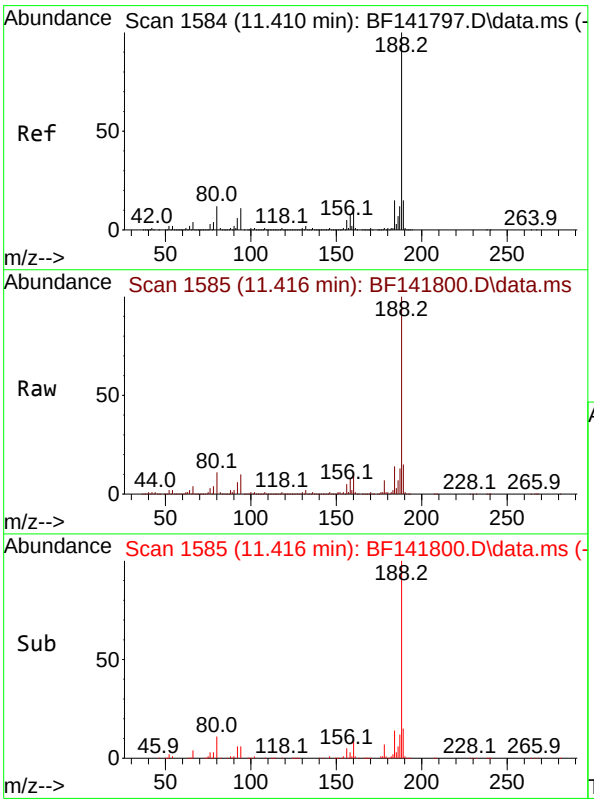
Ion	Ratio	Lower	Upper
77	100		
182	25.7	4.2	44.2
105	22.1	1.5	41.5
51	31.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

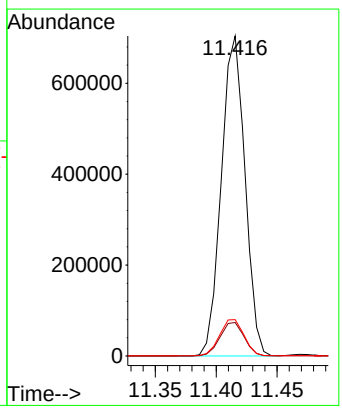
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

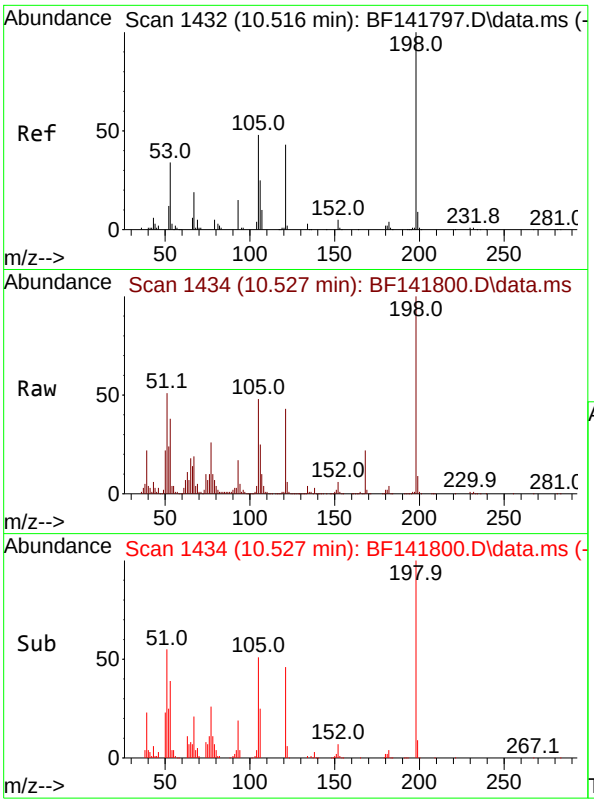


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:188 Resp: 953117

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.4	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 80.929 ng
RT: 10.527 min Scan# 14
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

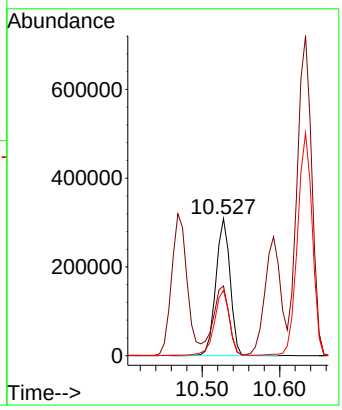
Tgt Ion:198 Resp: 39334

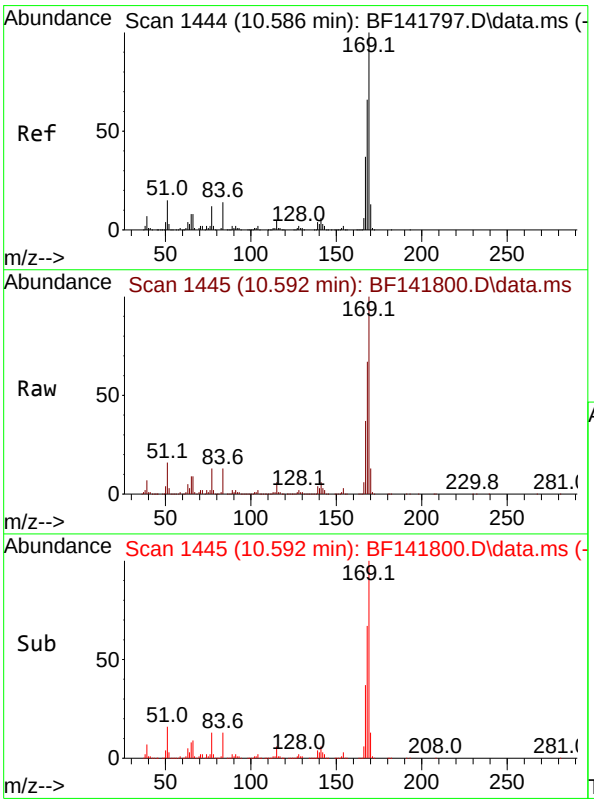
Ion	Ratio	Lower	Upper
198	100		
51	50.9	32.1	72.1
105	47.7	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

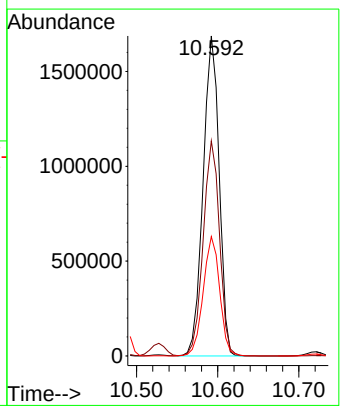


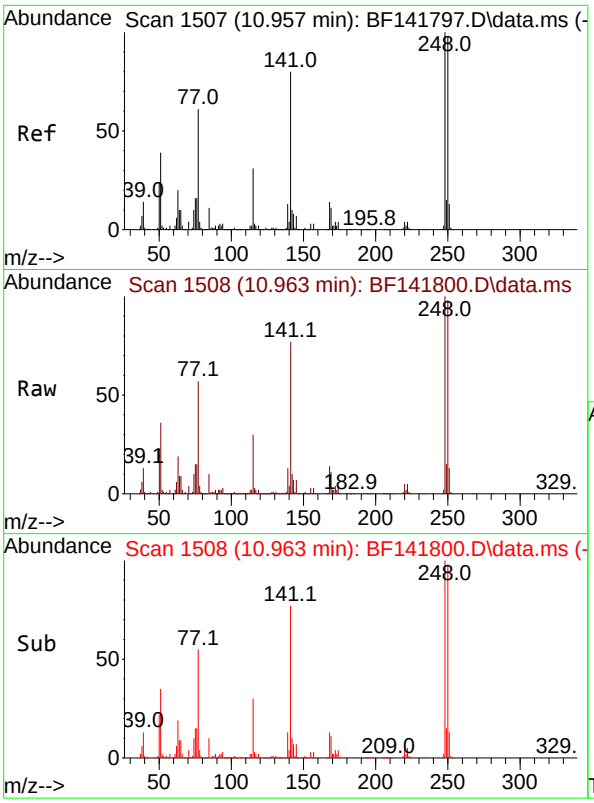


#66
n-Nitrosodiphenylamine
Concen: 73.923 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:169 Resp: 2313580

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.0	79.6
167	37.3	29.3	43.9

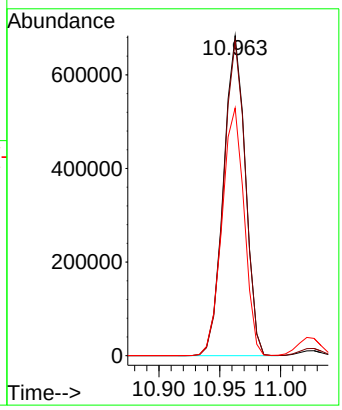




#67
4-Bromophenyl-phenylether
Concen: 76.550 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:248 Resp: 85221

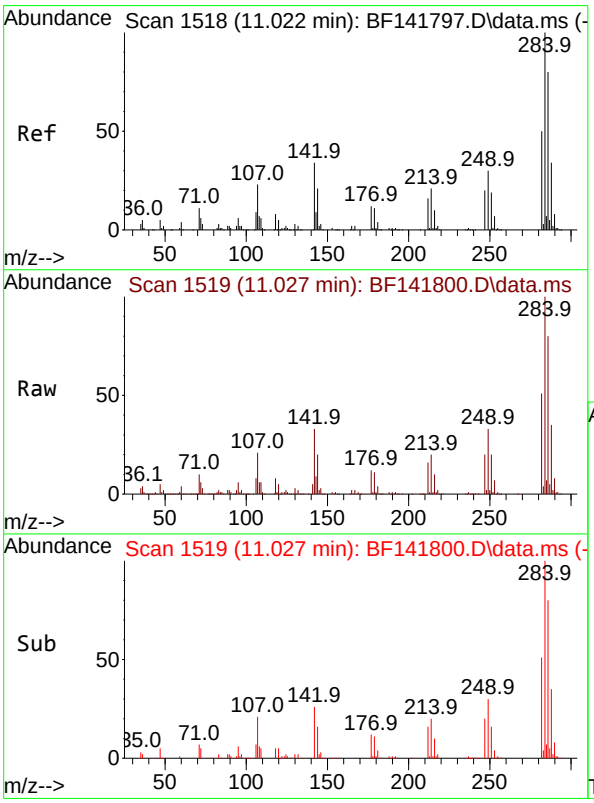
Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.1	117.1
141	77.4	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

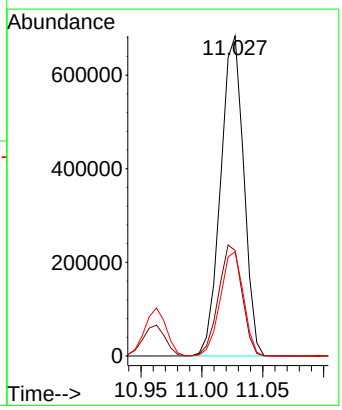
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

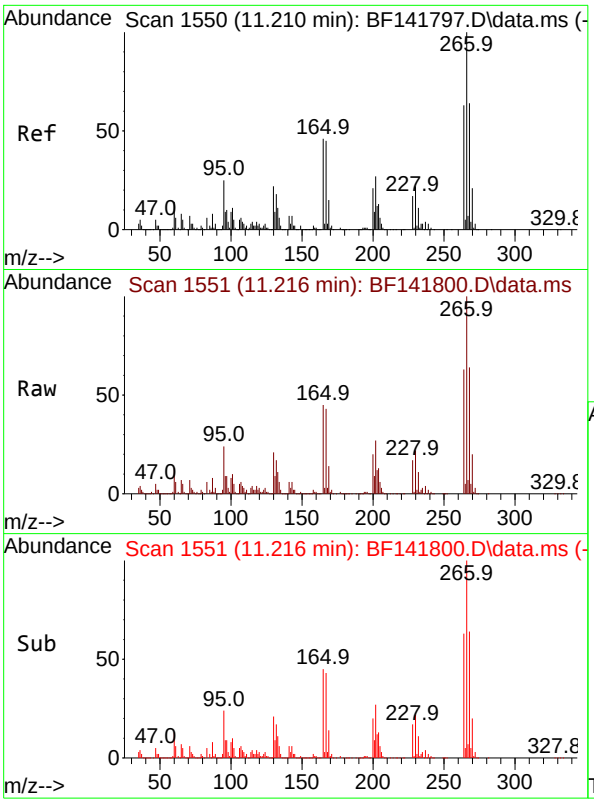


#68
Hexachlorobenzene
Concen: 76.782 ng
RT: 11.027 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:284 Resp: 902644

Ion	Ratio	Lower	Upper
284	100		
142	33.0	28.2	42.2
249	32.5	25.5	38.3

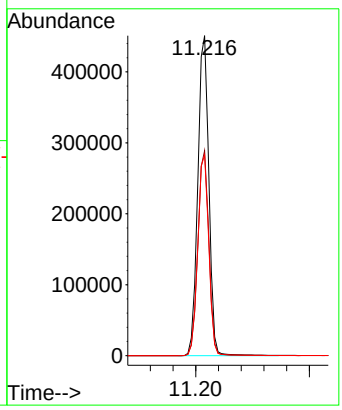




#70
Pentachlorophenol
Concen: 81.849 ng
RT: 11.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:266 Resp: 61026

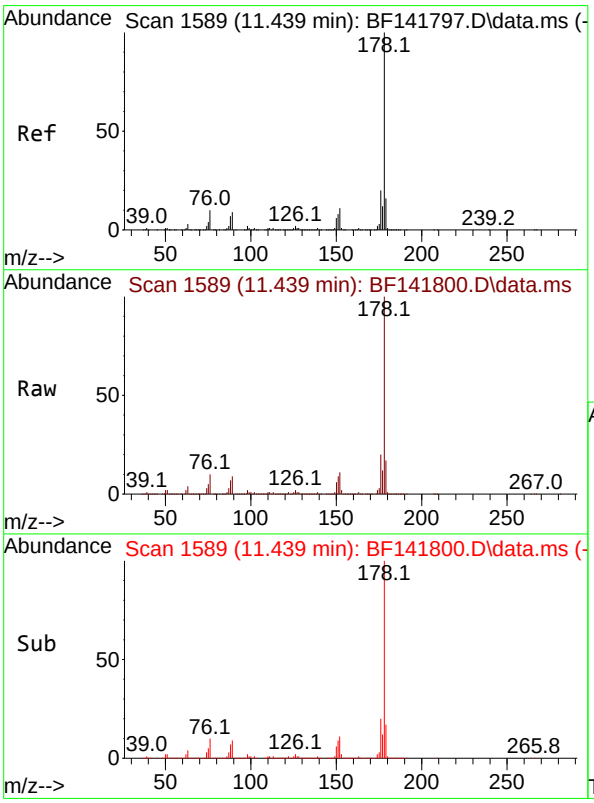
Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.9	76.3
264	62.8	50.2	75.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

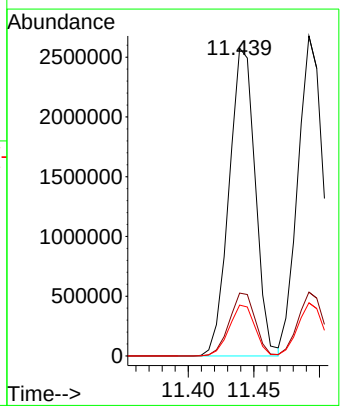
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

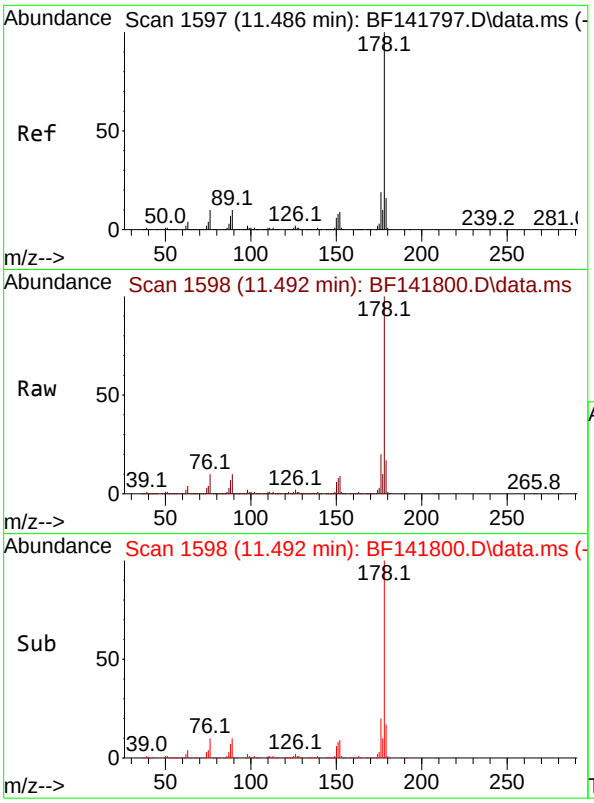


#71
Phenanthrene
Concen: 70.307 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 3584436

Ion	Ratio	Lower	Upper
178	100		
176	20.4	16.0	24.0
179	16.5	12.6	19.0

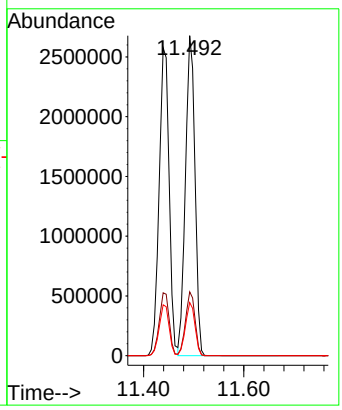




#72
Anthracene
Concen: 69.487 ng
RT: 11.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 355048

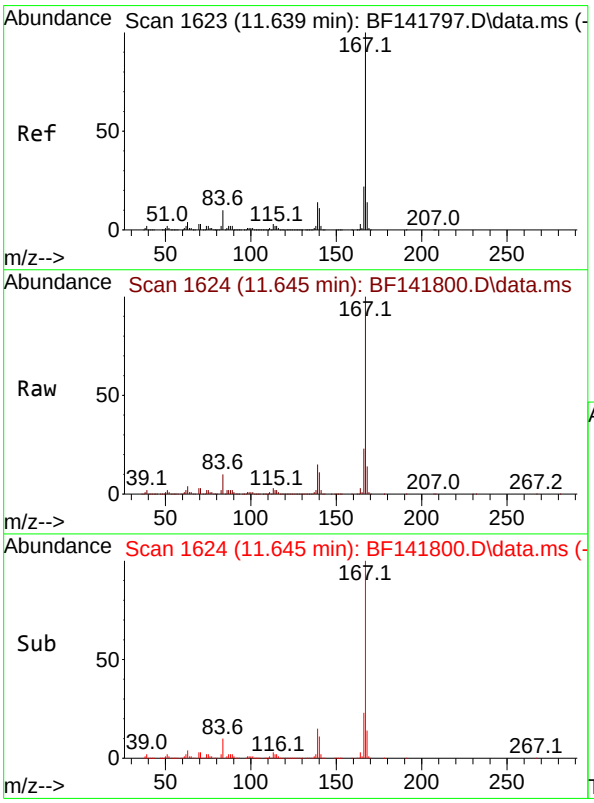
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.4	23.0
179	16.6	12.8	19.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

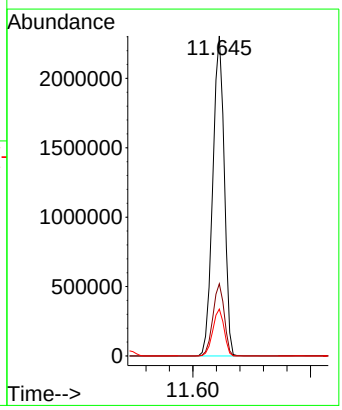
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

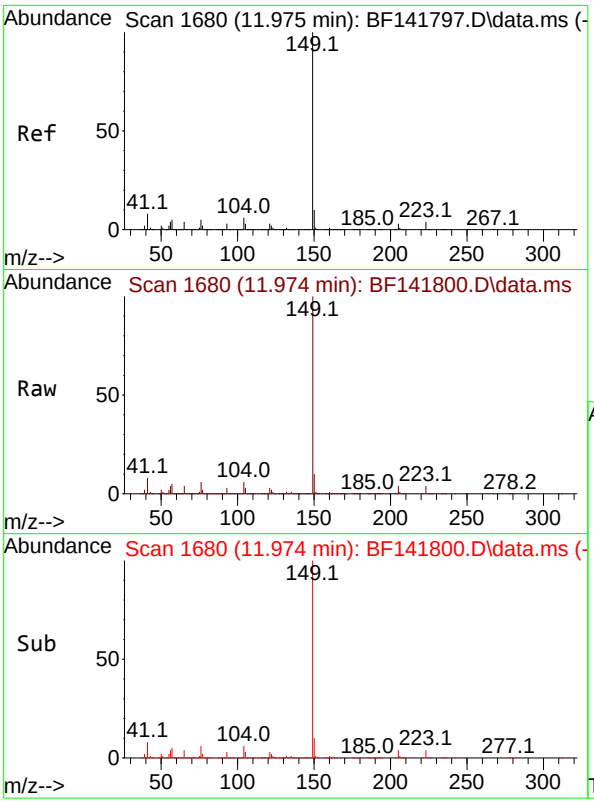


#73
Carbazole
Concen: 69.380 ng
RT: 11.645 min Scan# 1624
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:167 Resp: 3130504

Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.5	26.3
139	14.7	11.3	16.9

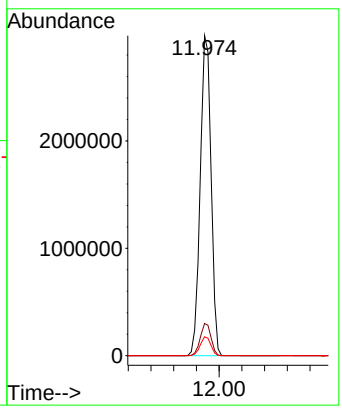




#74
Di-n-butylphthalate
Concen: 68.971 ng
RT: 11.974 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 394481

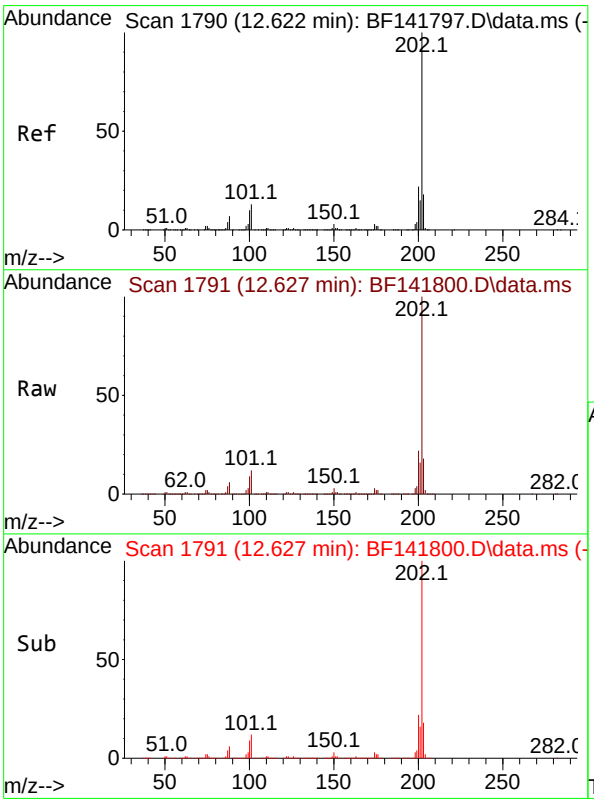
Ion	Ratio	Lower	Upper
149	100		
150	10.1	7.7	11.5
104	5.9	4.4	6.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

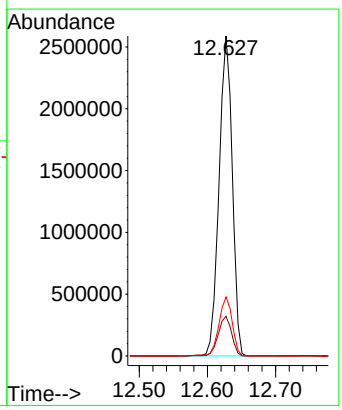
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

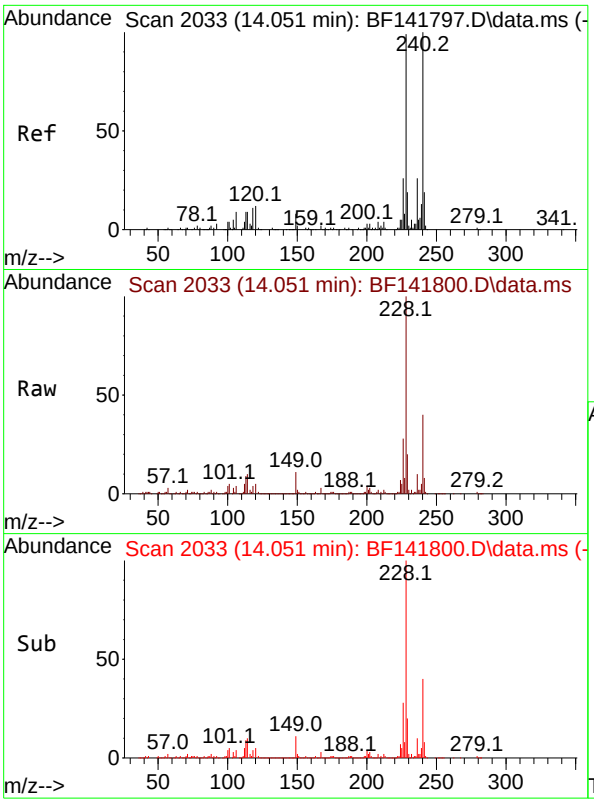


#75
Fluoranthene
Concen: 66.922 ng
RT: 12.627 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 3496011

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	32.8
203	18.5	0.0	38.0

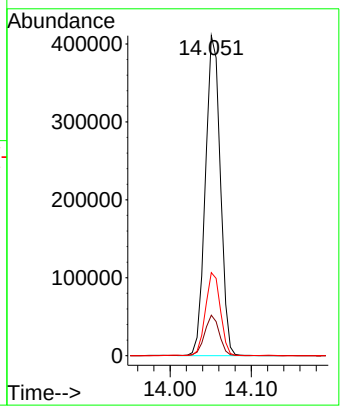




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:240 Resp: 52320

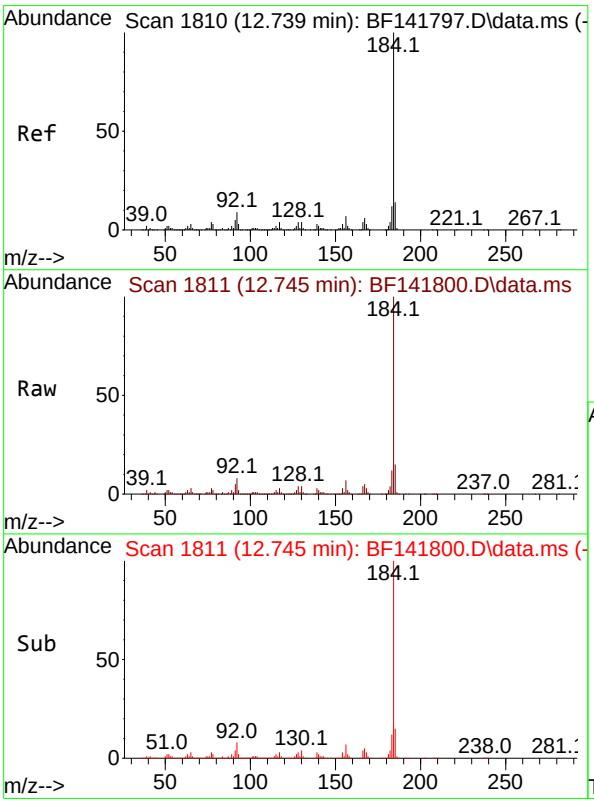
Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.7	14.5
236	26.0	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

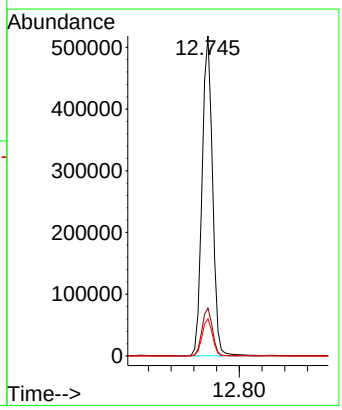
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

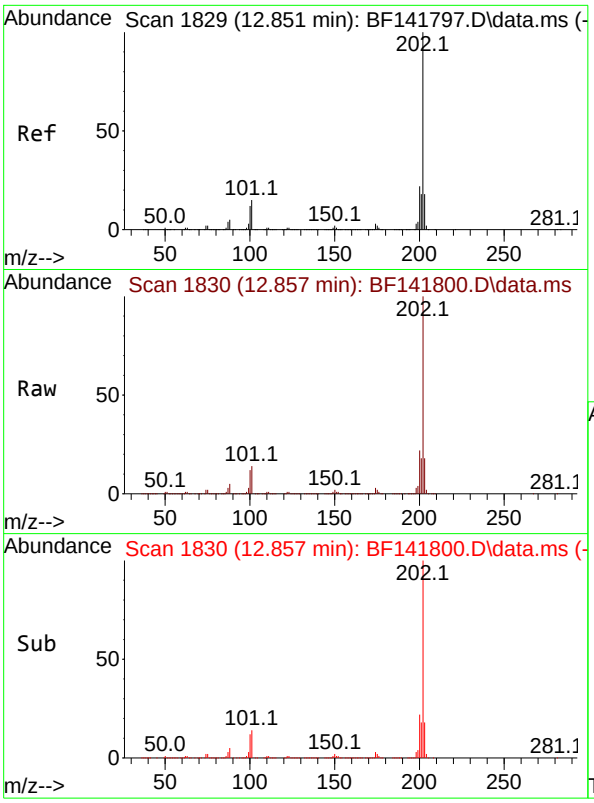


#77
Benzidine
Concen: 100.283 ng
RT: 12.745 min Scan# 1811
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:184 Resp: 660393

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.6	17.4
183	11.6	9.4	14.0

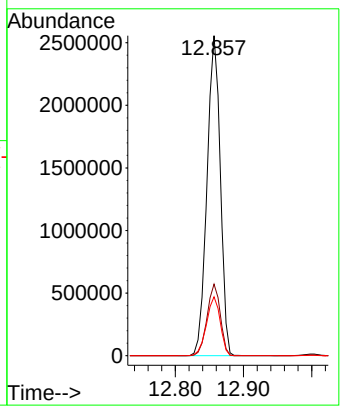




#78
Pyrene
Concen: 76.502 ng
RT: 12.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 346603

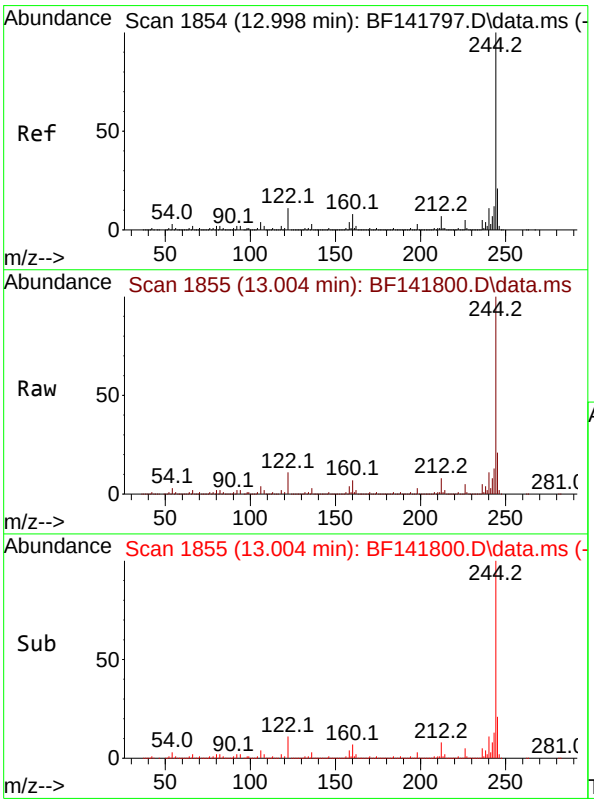
Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.4	26.0
203	18.4	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

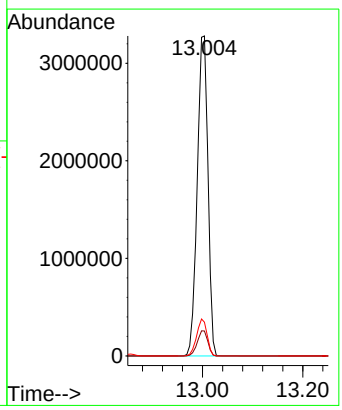
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

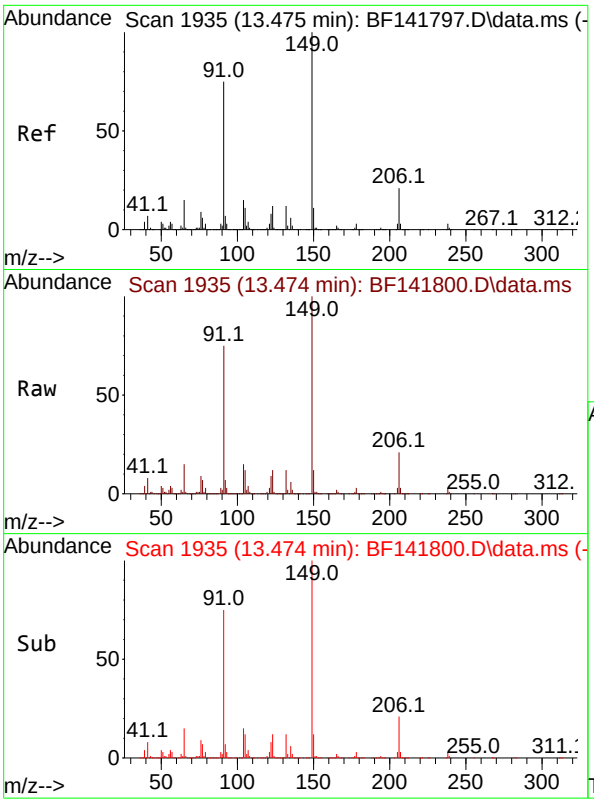


#79
Terphenyl-d14
Concen: 149.765 ng
RT: 13.004 min Scan# 1855
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:244 Resp: 4843134

Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.0	9.0
122	10.5	9.0	13.6

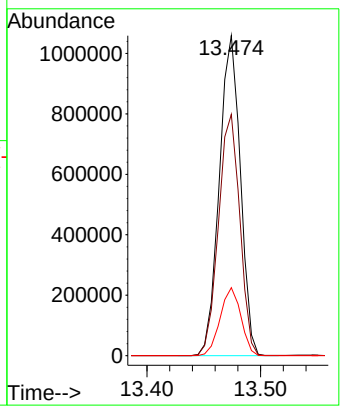




#80
Butylbenzylphthalate
Concen: 82.887 ng
RT: 13.474 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 136438

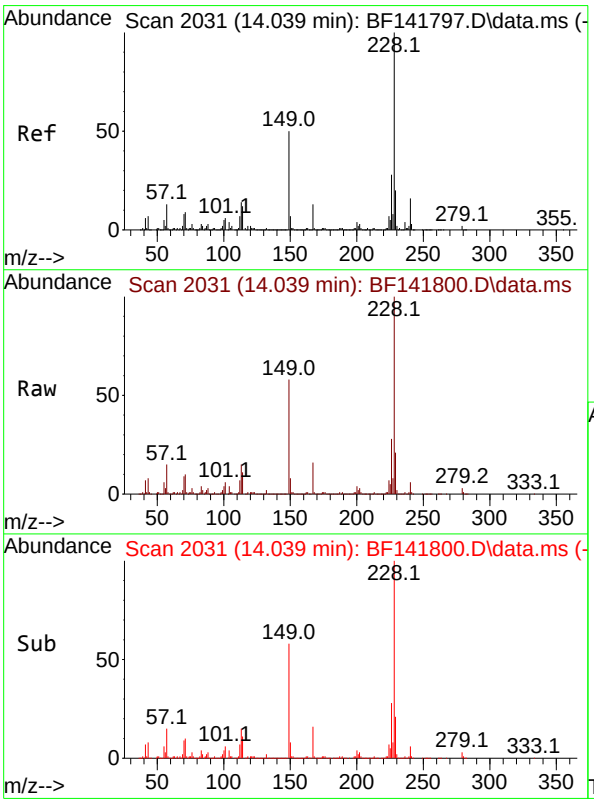
Ion	Ratio	Lower	Upper
149	100		
91	75.4	60.1	90.1
206	21.2	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

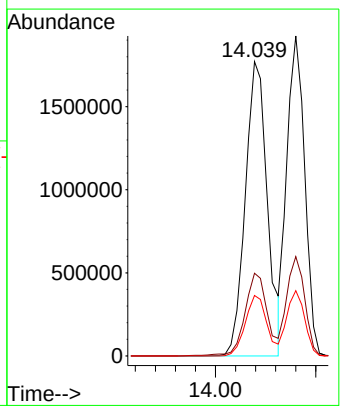
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

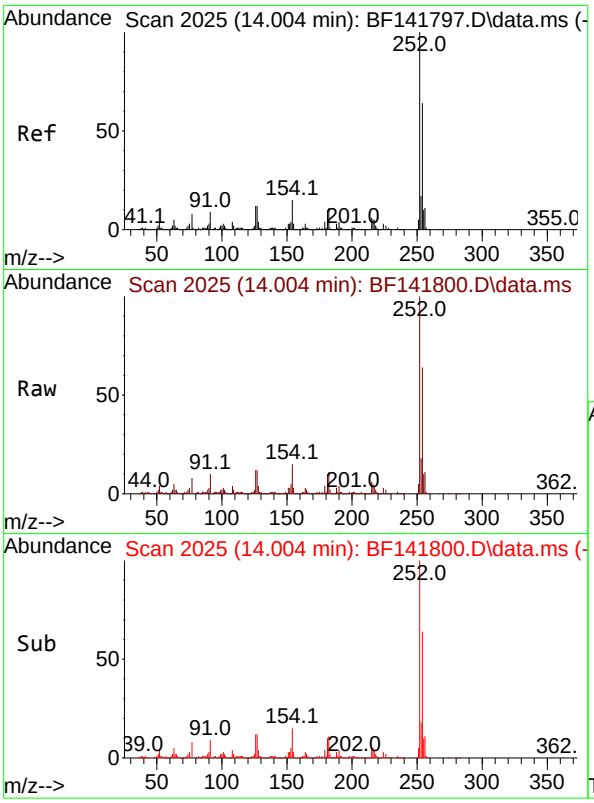


#81
Benzo(a)anthracene
Concen: 78.217 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:228 Resp: 2703093

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.1	33.1
229	20.6	16.1	24.1

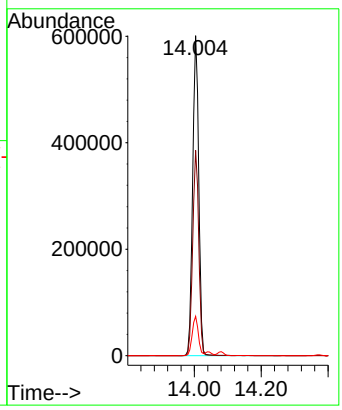




#82
3,3'-Dichlorobenzidine
Concen: 76.939 ng
RT: 14.004 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 76285

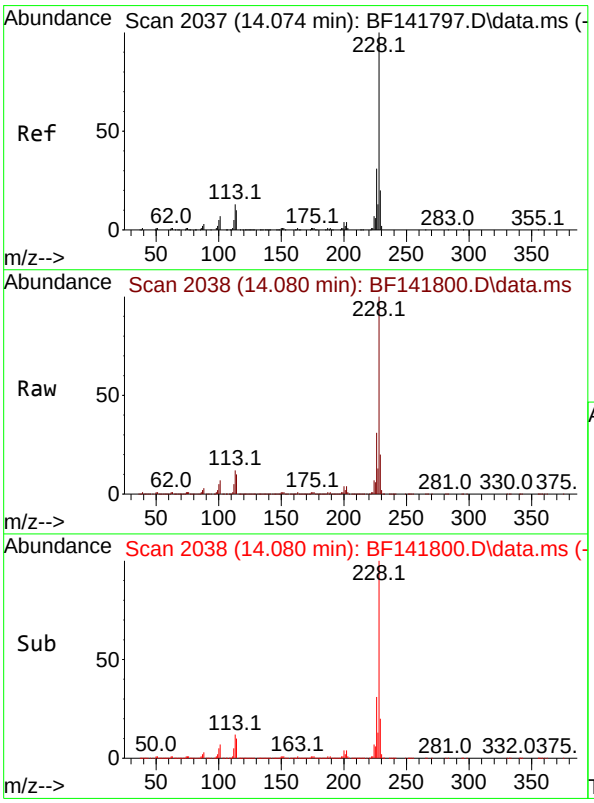
Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	12.3	9.8	14.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

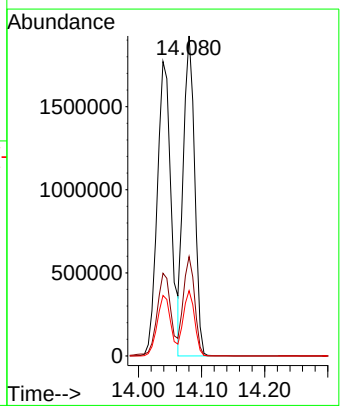
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

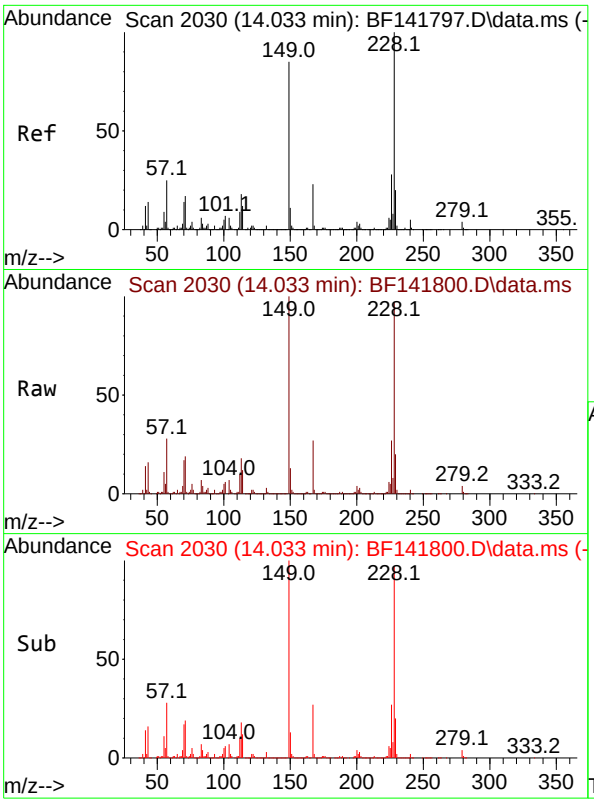


#83
Chrysene
Concen: 75.176 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:228 Resp: 2394861

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	20.4	16.1	24.1





#84
Bis(2-ethylhexyl)phthalate
Concen: 84.426 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

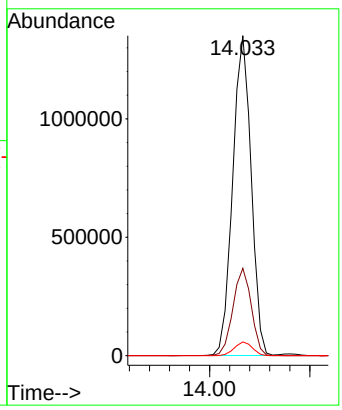
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

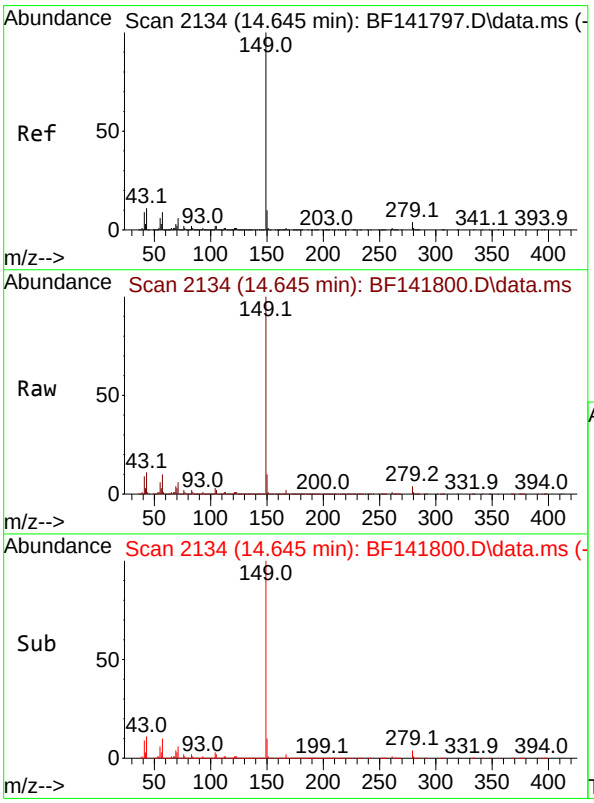
Tgt Ion:149 Resp: 173041

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.2	31.8
279	4.3	3.3	4.9

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

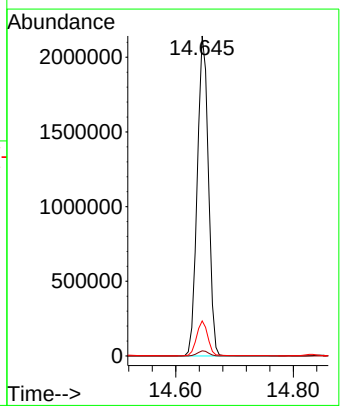


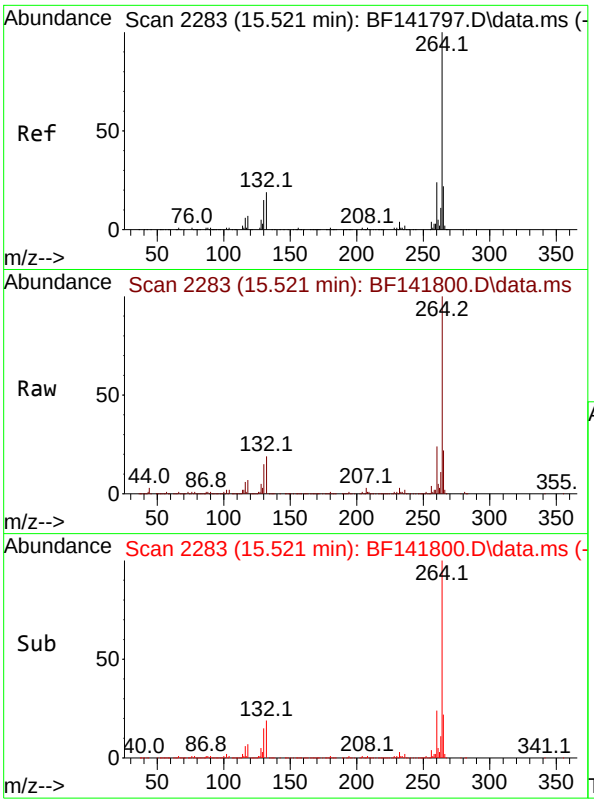


#85
Di-n-octyl phthalate
Concen: 91.958 ng
RT: 14.645 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 2821762

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.9	8.6	12.8

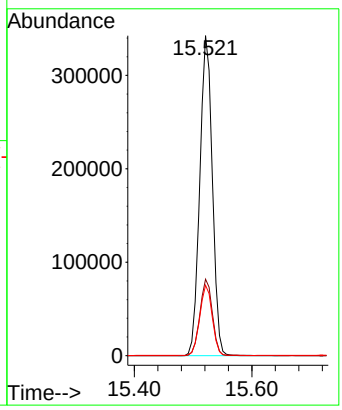




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:264 Resp: 50861

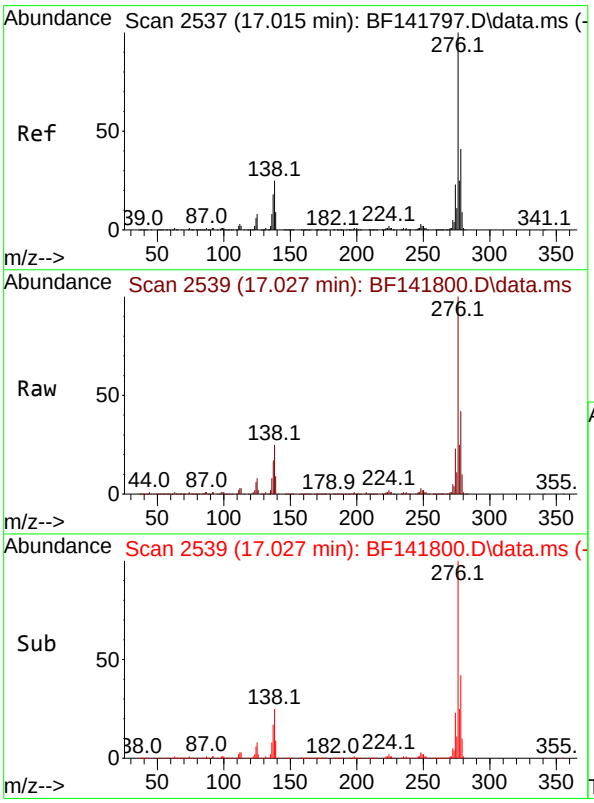
Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	22.0	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

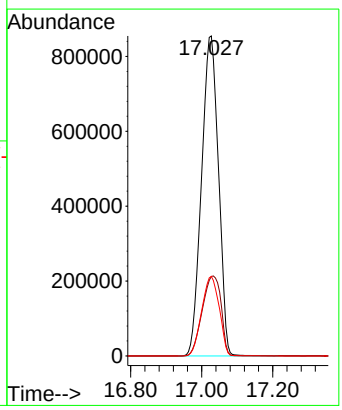
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

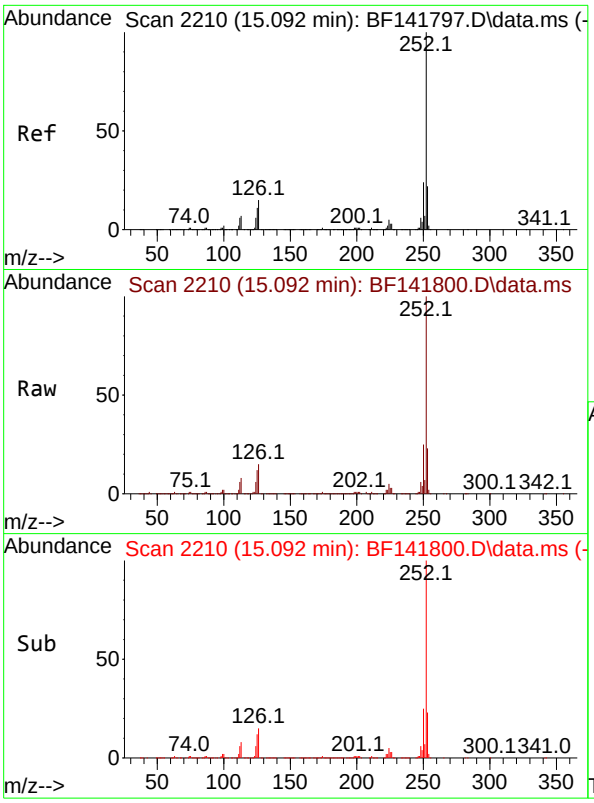


#87
Indeno(1,2,3-cd)pyrene
Concen: 87.778 ng
RT: 17.027 min Scan# 2539
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:276 Resp: 2842850

Ion	Ratio	Lower	Upper
276	100		
138	27.7	22.5	33.7
277	25.7	20.3	30.5

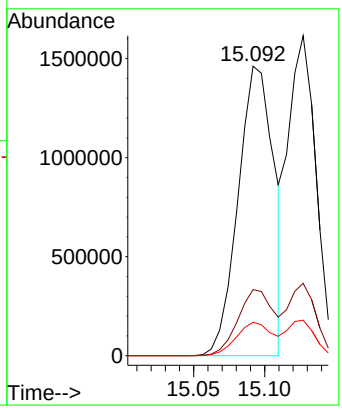




#88
Benzo(b)fluoranthene
Concen: 73.777 ng
RT: 15.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 255601

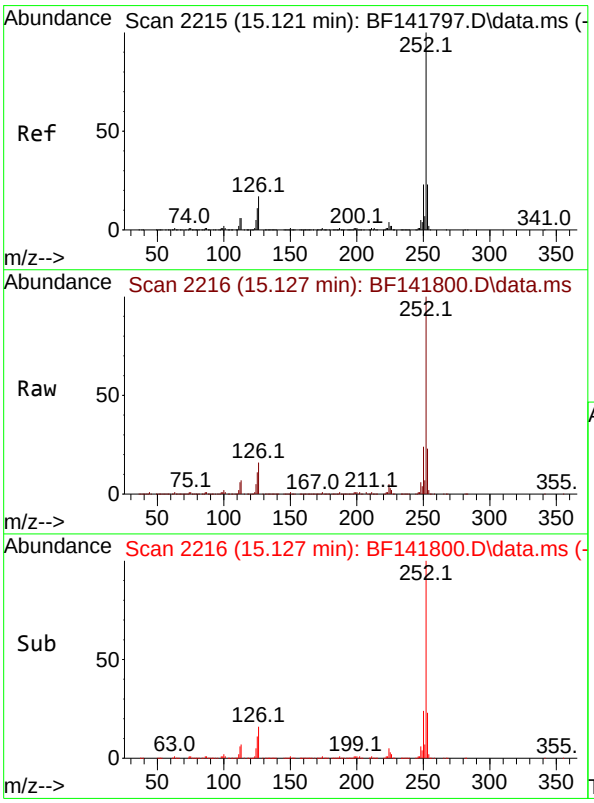
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	11.6	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

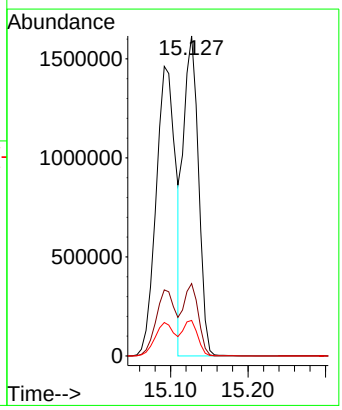
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

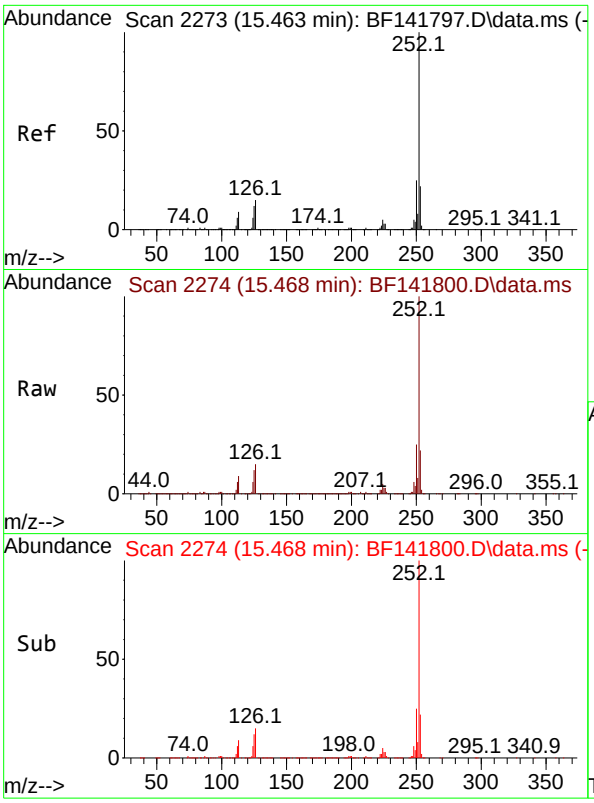


#89
Benzo(k)fluoranthene
Concen: 74.176 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 2184261

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	11.1	8.8	13.2





#90
Benzo(a)pyrene
Concen: 77.617 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

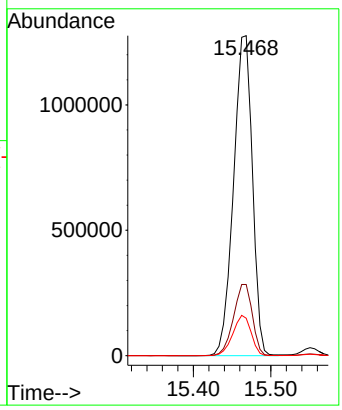
Tgt Ion:252 Resp: 215658

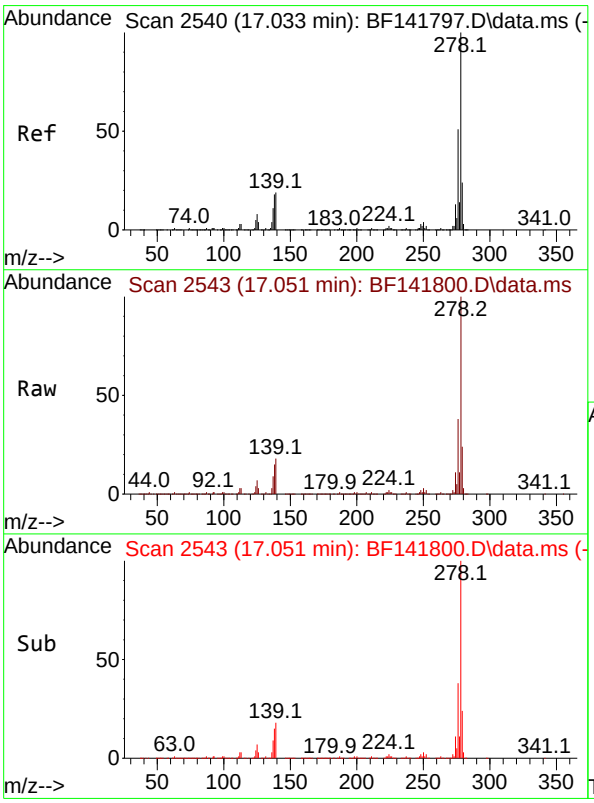
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.7	9.4	14.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

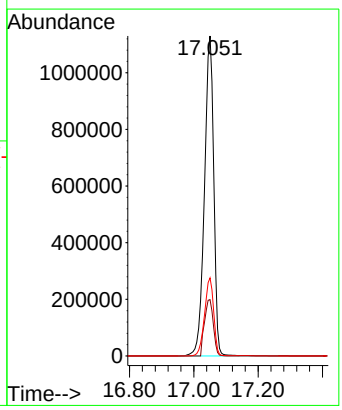


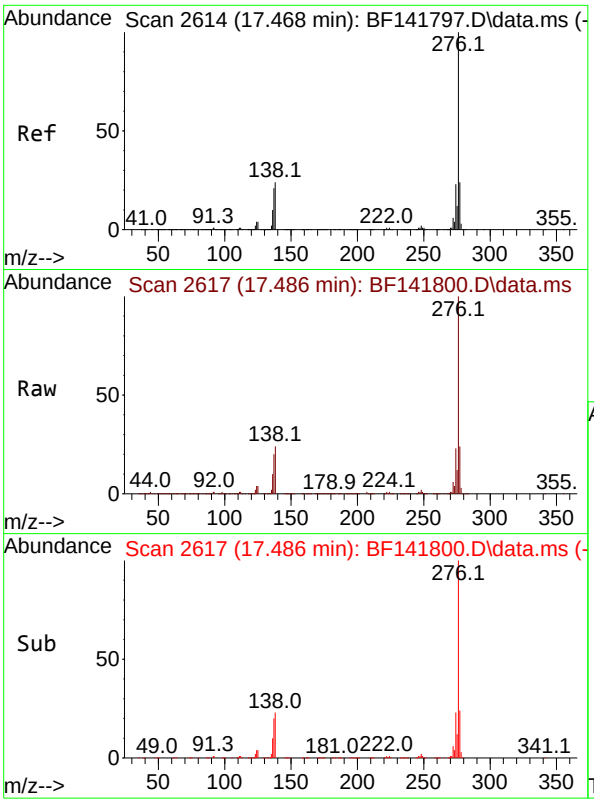


#91
Dibenzo(a,h)anthracene
Concen: 85.844 ng
RT: 17.051 min Scan# 2543
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:278 Resp: 2269377

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.9	22.3
279	24.4	19.3	28.9

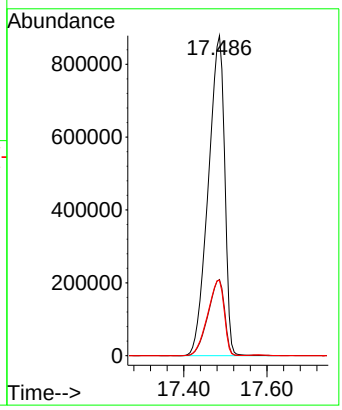




#92
Benzo(g,h,i)perylene
Concen: 88.534 ng
RT: 17.486 min Scan# 2
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:276 Resp: 239775

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	23.5	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	336406	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	1367272	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	753741	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	1211382	20.000	ng		0.00
76) Chrysene-d12	14.051	240	696919	20.000	ng		0.00
86) Perylene-d12	15.521	264	634238	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	1736670	82.443	ng		0.00
7) Phenol-d6	6.510	99	2276751	83.039	ng		0.00
23) Nitrobenzene-d5	7.457	82	2025812	94.707	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	596677	84.321	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	3570541	75.957	ng		0.00
79) Terphenyl-d14	12.998	244	3534753	82.060	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	396533	41.486	ng		100
3) Pyridine	3.446	79	1012428	42.572	ng		99
4) n-Nitrosodimethylamine	3.404	42	498621	43.575	ng		99
6) Aniline	6.557	93	1221626	42.857	ng		100
8) 2-Chlorophenol	6.675	128	957321	42.011	ng		100
9) Benzaldehyde	6.440	77	696694	43.684	ng		99
10) Phenol	6.528	94	1219216	41.614	ng		99
11) bis(2-Chloroethyl)ether	6.628	93	932690	41.763	ng		99
12) 1,3-Dichlorobenzene	6.834	146	1012705	41.498	ng		99
13) 1,4-Dichlorobenzene	6.910	146	1009763	41.066	ng		99
14) 1,2-Dichlorobenzene	7.063	146	938112	40.857	ng		100
15) Benzyl Alcohol	7.028	79	932679	42.564	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1447535	42.679	ng		99
17) 2-Methylphenol	7.134	107	796850	42.365	ng		100
18) Hexachloroethane	7.404	117	389901	42.366	ng		99
19) n-Nitroso-di-n-propyla...	7.310	70	748423	41.525	ng		99
20) 3+4-Methylphenols	7.292	107	979968	41.840	ng	#	85
22) Acetophenone	7.298	105	1345874	40.417	ng		98
24) Nitrobenzene	7.475	77	1047974	45.751	ng		100
25) Isophorone	7.710	82	1881562	40.944	ng		99
26) 2-Nitrophenol	7.787	139	462297	45.447	ng		99
27) 2,4-Dimethylphenol	7.816	122	708317	41.931	ng		100
28) bis(2-Chloroethoxy)met...	7.922	93	1183035	40.357	ng		100
29) 2,4-Dichlorophenol	8.022	162	821536	42.157	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	870339	40.757	ng		100
31) Naphthalene	8.192	128	2800645	39.854	ng		100
32) Benzoic acid	7.939	122	635541	45.545	ng		99
33) 4-Chloroaniline	8.239	127	1033113	40.096	ng		99
34) Hexachlorobutadiene	8.310	225	544620	41.042	ng		99
35) Caprolactam	8.616	113	256209	42.737	ng		99
36) 4-Chloro-3-methylphenol	8.710	107	905842	41.844	ng		100
37) 2-Methylnaphthalene	8.881	142	1830313	39.710	ng		99
38) 1-Methylnaphthalene	8.981	142	1752937	39.635	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	872629	40.086	ng		100
41) Hexachlorocyclopentadiene	9.039	237	354082	38.975	ng		98
43) 2,4,6-Trichlorophenol	9.157	196	592786	42.156	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	582125	41.806	ng		100
46) 1,1'-Biphenyl	9.351	154	2229687	38.864	ng		100
47) 2-Chloronaphthalene	9.375	162	1663643	39.288	ng		100
48) 2-Nitroaniline	9.463	65	514104	44.684	ng		99
49) Acenaphthylene	9.792	152	2533613	39.907	ng		100
50) Dimethylphthalate	9.651	163	2031698	40.250	ng		100
51) 2,6-Dinitrotoluene	9.710	165	425445	44.292	ng		97
52) Acenaphthene	9.963	154	1734464	40.488	ng		99
53) 3-Nitroaniline	9.881	138	449174	43.938	ng		95
54) 2,4-Dinitrophenol	9.981	184	176378	47.494	ng	#	1
55) Dibenzofuran	10.133	168	2456099	39.391	ng		100
56) 4-Nitrophenol	10.022	139	370704	49.725	ng		99
57) 2,4-Dinitrotoluene	10.110	165	536914	45.704	ng		99
58) Fluorene	10.475	166	1800318	38.547	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	515976	42.607	ng		100
60) Diethylphthalate	10.351	149	2018830	39.896	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	901998	38.546	ng		99
62) 4-Nitroaniline	10.492	138	421232	48.866	ng		99
63) Azobenzene	10.628	77	2141198	40.188	ng		99
65) 4,6-Dinitro-2-methylph...	10.516	198	256241	45.441	ng		99
66) n-Nitrosodiphenylamine	10.586	169	1608263	40.431	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	574667	40.614	ng		99
68) Hexachlorobenzene	11.022	284	608067	40.697	ng		99
69) Atrazine	11.110	200	420733	38.463	ng		99
70) Pentachlorophenol	11.210	266	417260	44.032	ng		100
71) Phenanthrene	11.439	178	2557877	39.475	ng		100
72) Anthracene	11.486	178	2540876	39.126	ng		99
73) Carbazole	11.639	167	2254761	39.317	ng		100
74) Di-n-butylphthalate	11.975	149	2874276	39.540	ng		100
75) Fluoranthene	12.622	202	2552790	38.448	ng		100
77) Benzidine	12.739	184	657519	74.959	ng		99
78) Pyrene	12.851	202	2553211	42.307	ng		100
80) Butylbenzylphthalate	13.469	149	957186	43.655	ng		98
81) Benzo(a)anthracene	14.039	228	1852195	40.236	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	573075	43.392	ng		100
83) Chrysene	14.074	228	1718188	40.491	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	1183508	43.350	ng		99
85) Di-n-octyl phthalate	14.645	149	1881499	46.033	ng		99
87) Indeno(1,2,3-cd)pyrene	17.015	276	1767077	43.754	ng		100
88) Benzo(b)fluoranthene	15.086	252	1710890	39.602	ng		99
89) Benzo(k)fluoranthene	15.121	252	1454422	39.608	ng		99
90) Benzo(a)pyrene	15.457	252	1416788	40.891	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	1440368	43.693	ng		100
92) Benzo(g,h,i)perylene	17.468	276	1484943	43.969	ng		99

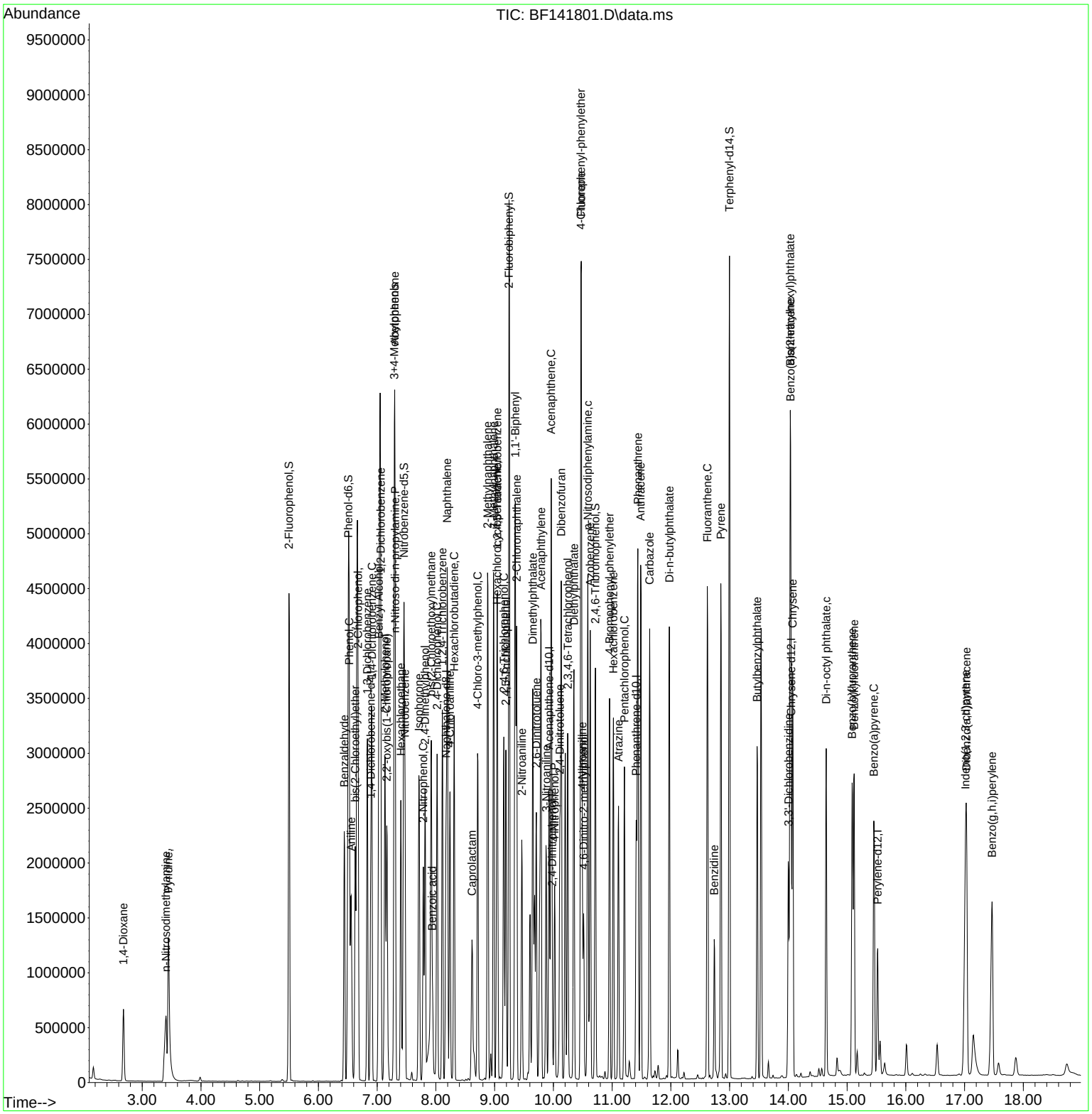
(#) = qualifier out of range (m) = manual integration (+) = signals summed

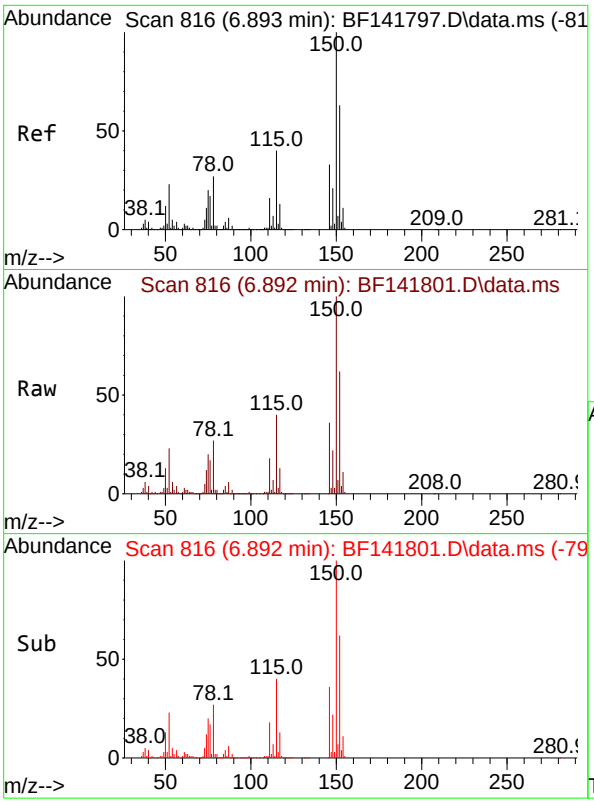
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



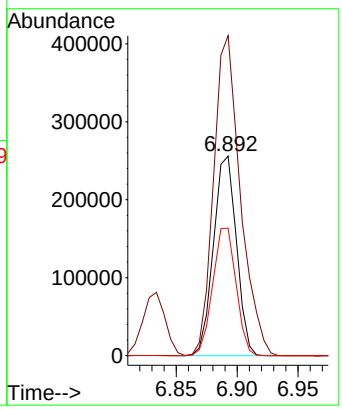


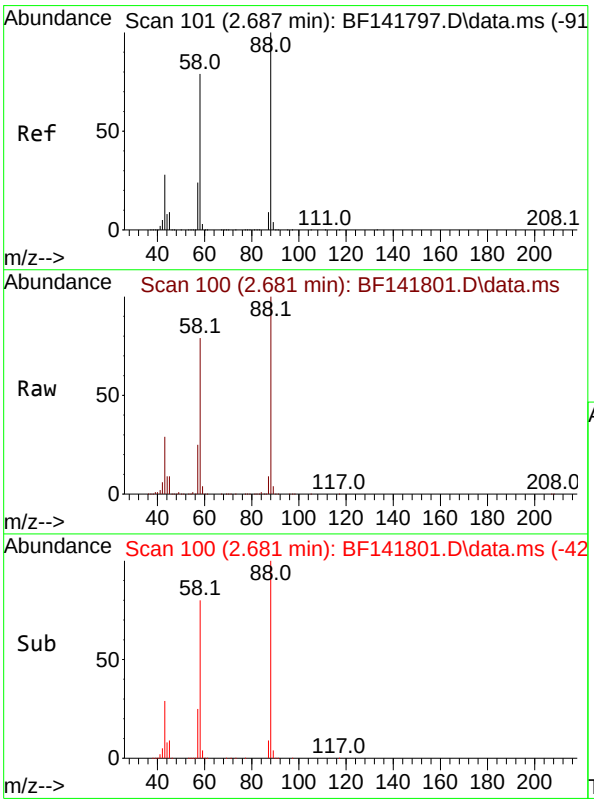
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 8
Delta R.T. -0.001 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:152 Resp: 336406

Ion	Ratio	Lower	Upper
152	100		
150	160.3	127.5	191.3
115	63.9	51.4	77.2

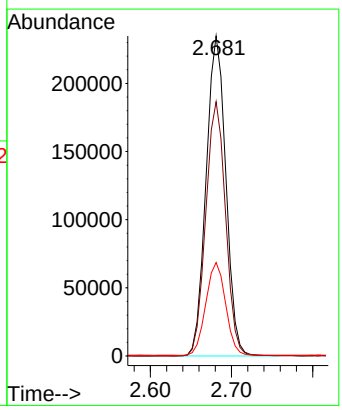


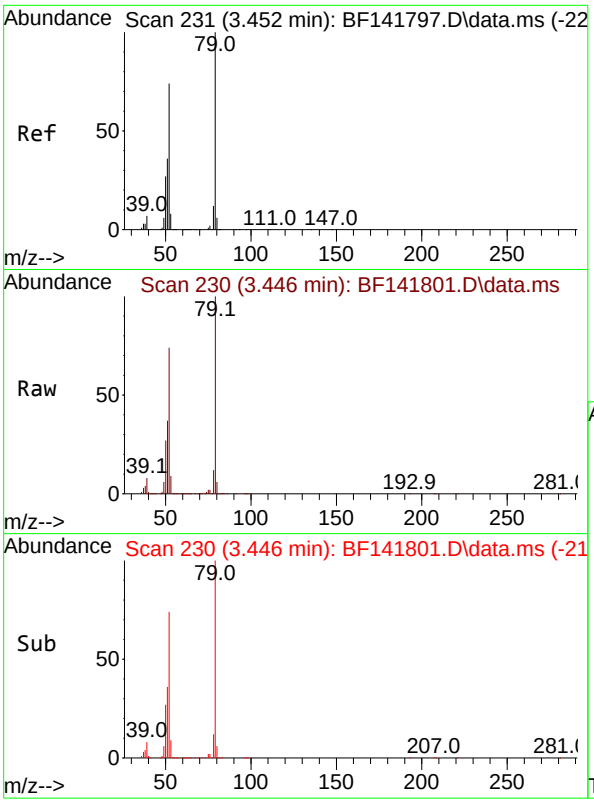


#2
1,4-Dioxane
Concen: 41.486 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 88 Resp: 396533

Ion	Ratio	Lower	Upper
88	100		
58	79.7	63.9	95.9
43	29.0	23.0	34.6



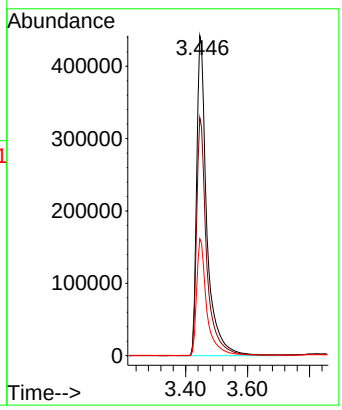


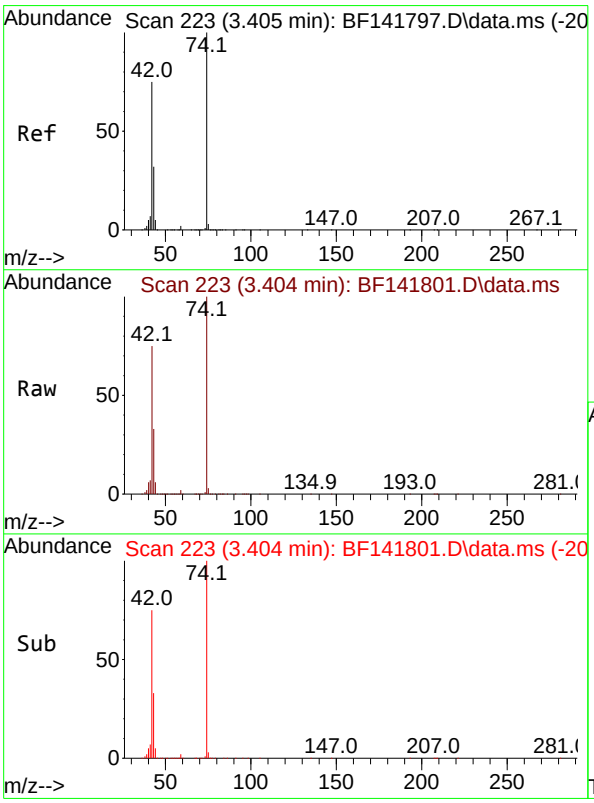
#3
Pyridine
Concen: 42.572 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 79 Resp: 1012428

Ion	Ratio	Lower	Upper
79	100		
52	74.3	59.0	88.4
51	36.5	29.0	43.4

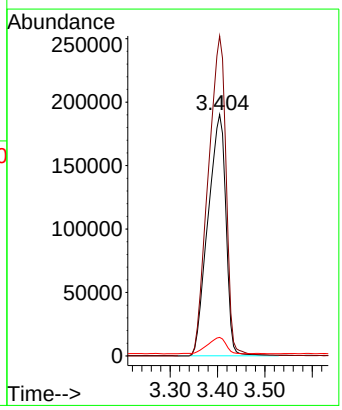


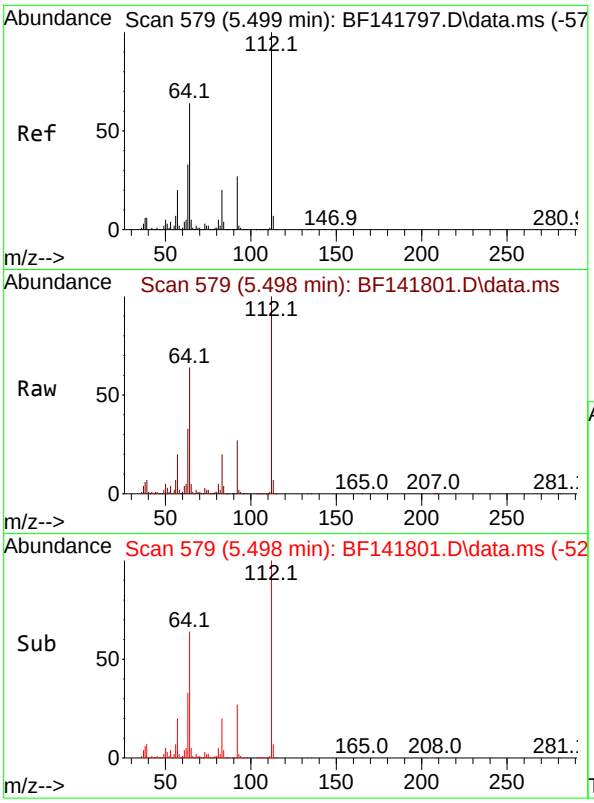


#4
n-Nitrosodimethylamine
Concen: 43.575 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 42 Resp: 498621

Ion	Ratio	Lower	Upper
42	100		
74	132.5	107.1	160.7
44	7.7	6.6	9.8



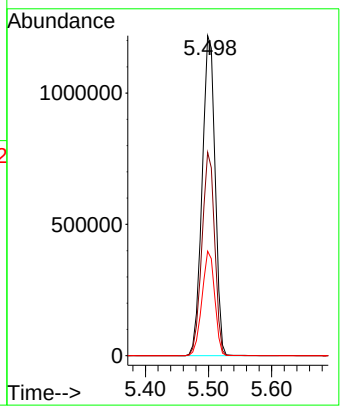


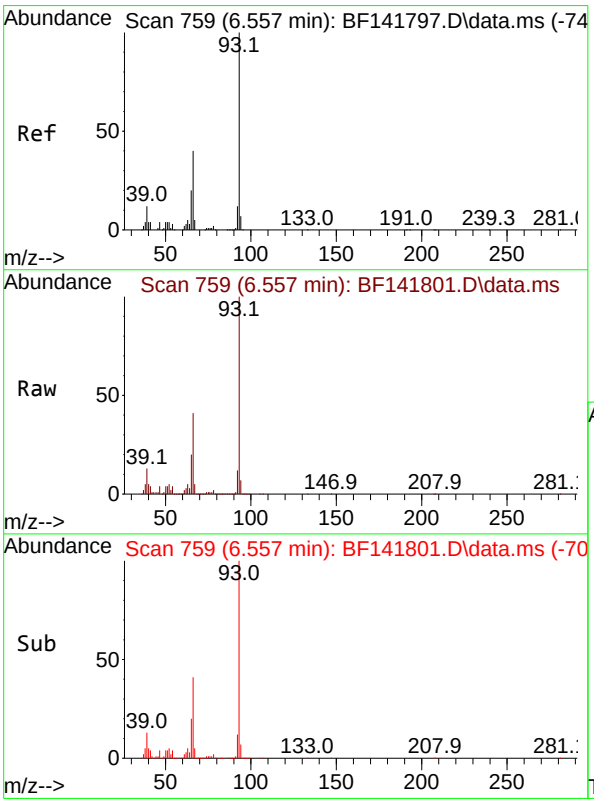
#5
2-Fluorophenol
Concen: 82.443 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:112 Resp: 1736670

Ion	Ratio	Lower	Upper
112	100		
64	63.5	51.3	76.9
63	32.6	26.2	39.4

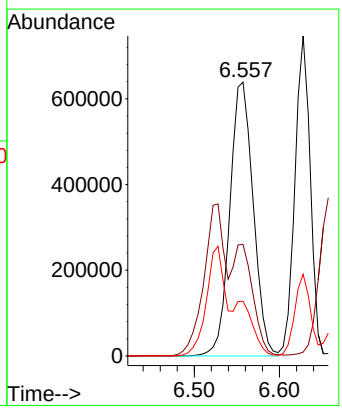




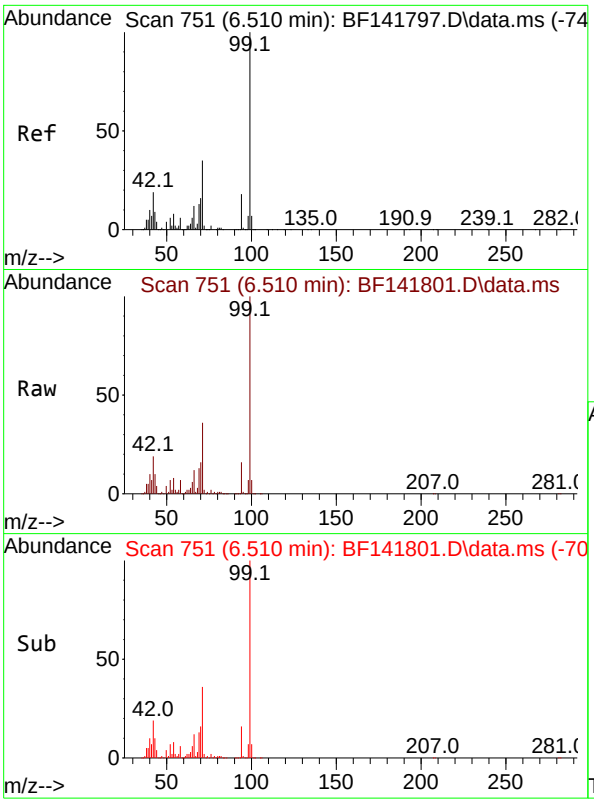
#6
Aniline
Concen: 42.857 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 93 Resp: 1221626

Ion	Ratio	Lower	Upper
93	100		
66	40.7	32.3	48.5
65	20.0	15.9	23.9



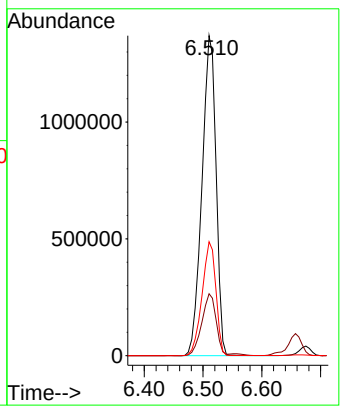
Instrument :
BNA_F
ClientSampleId :
ICVBF022725

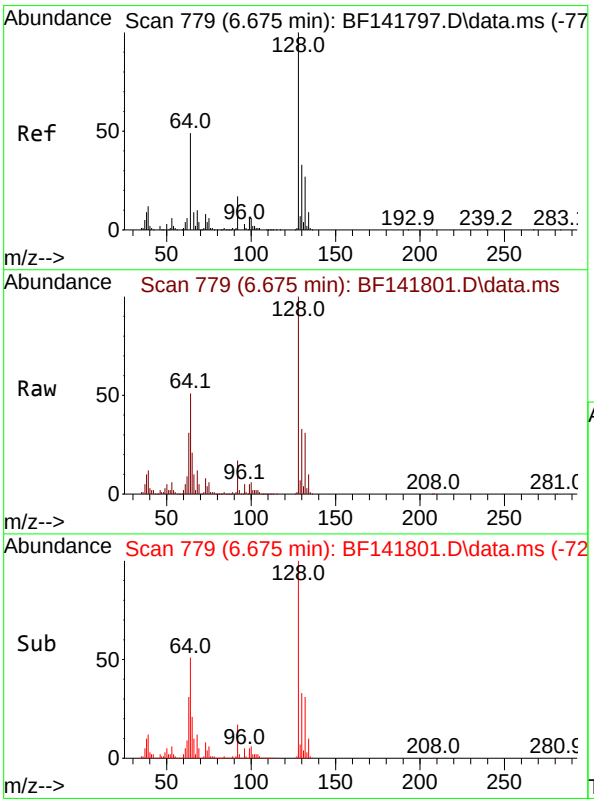


#7
Phenol-d6
Concen: 83.039 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 99 Resp: 2276751

Ion	Ratio	Lower	Upper
99	100		
42	19.4	15.2	22.8
71	35.6	28.2	42.2

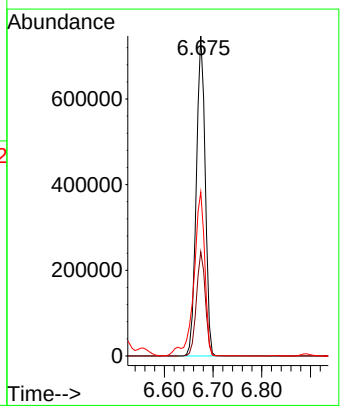


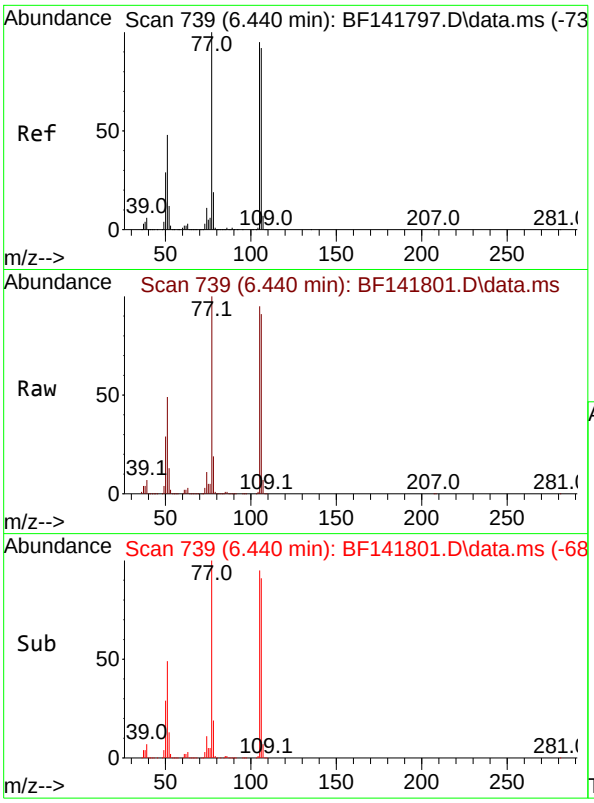


#8
2-Chlorophenol
Concen: 42.011 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:128 Resp: 957321

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	51.2	31.1	71.1



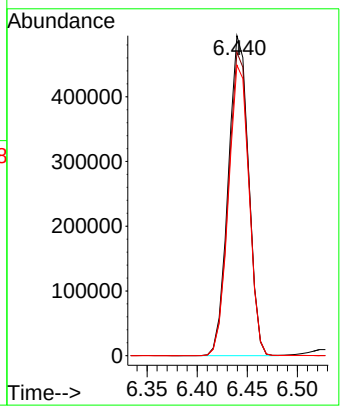


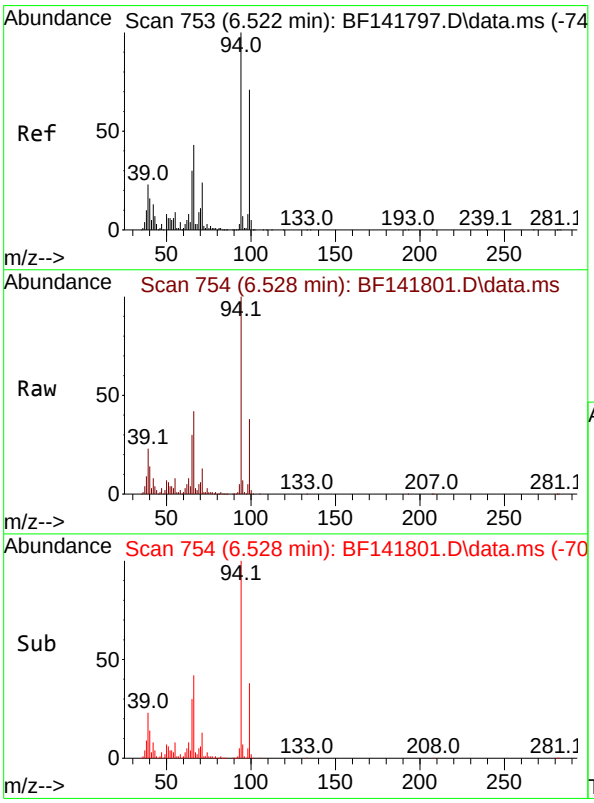
#9
Benzaldehyde
Concen: 43.684 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 77 Resp: 696694

Ion	Ratio	Lower	Upper
77	100		
105	94.8	75.3	115.3
106	90.8	72.3	112.3

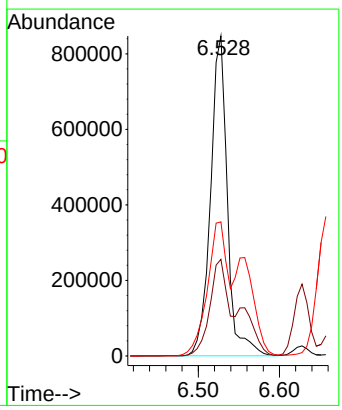


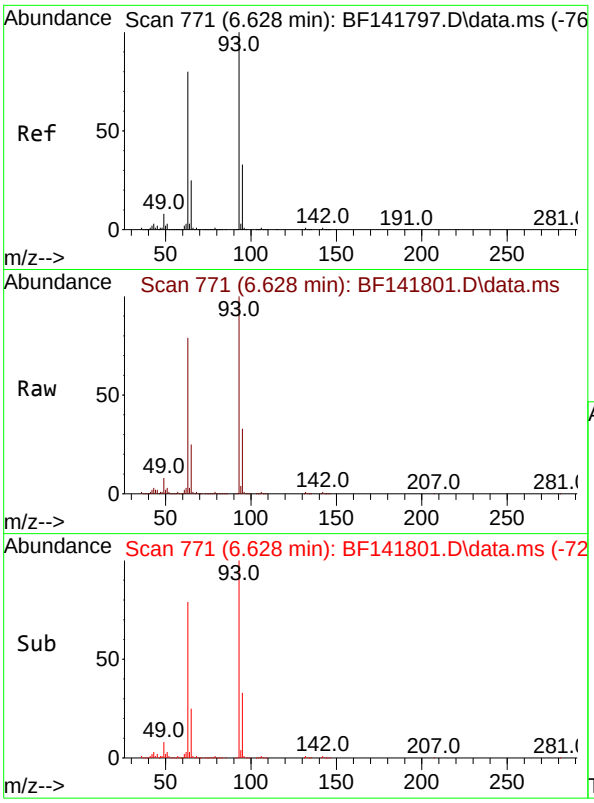


#10
Phenol
Concen: 41.614 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 94 Resp: 1219216

Ion	Ratio	Lower	Upper
94	100		
65	30.2	10.2	50.2
66	41.9	23.2	63.2



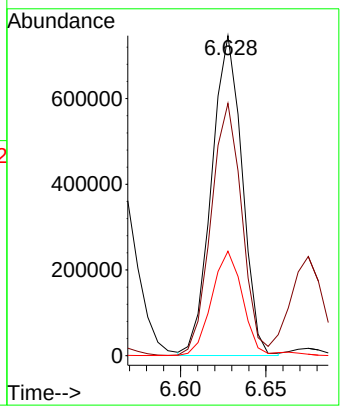


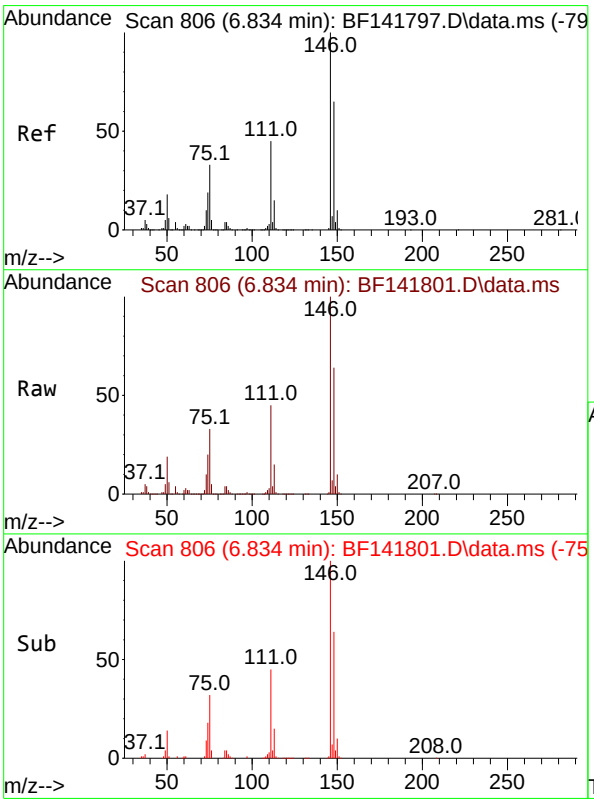
#11
bis(2-Chloroethyl)ether
Concen: 41.763 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 93 Resp: 932690

Ion	Ratio	Lower	Upper
93	100		
63	78.9	59.3	99.3
95	32.6	13.2	53.2

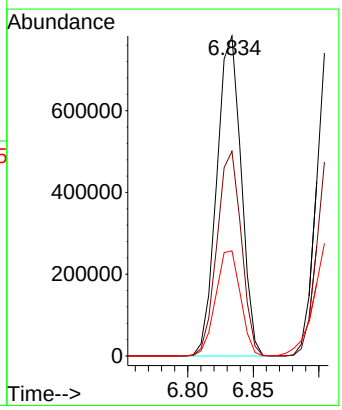


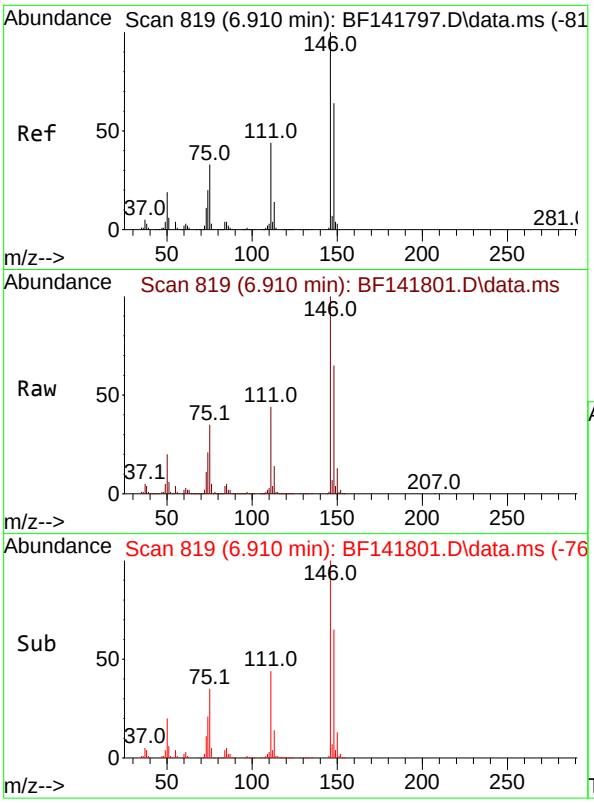


#12
1,3-Dichlorobenzene
Concen: 41.498 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:146 Resp: 1012705

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.6
75	32.9	26.2	39.4



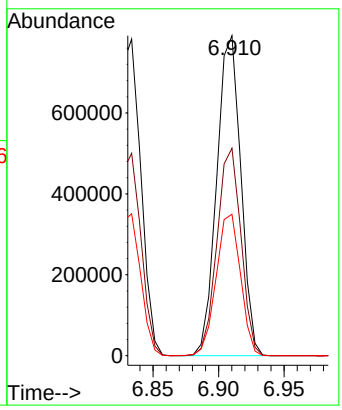


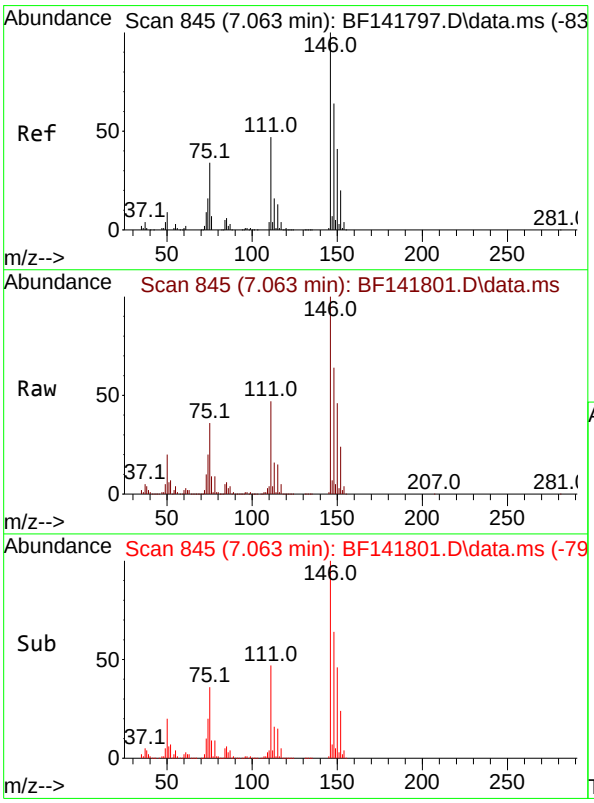
#13
1,4-Dichlorobenzene
Concen: 41.066 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:146 Resp: 1009763

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.4	77.2
111	44.2	35.5	53.3

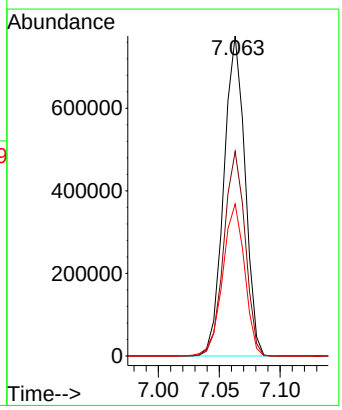


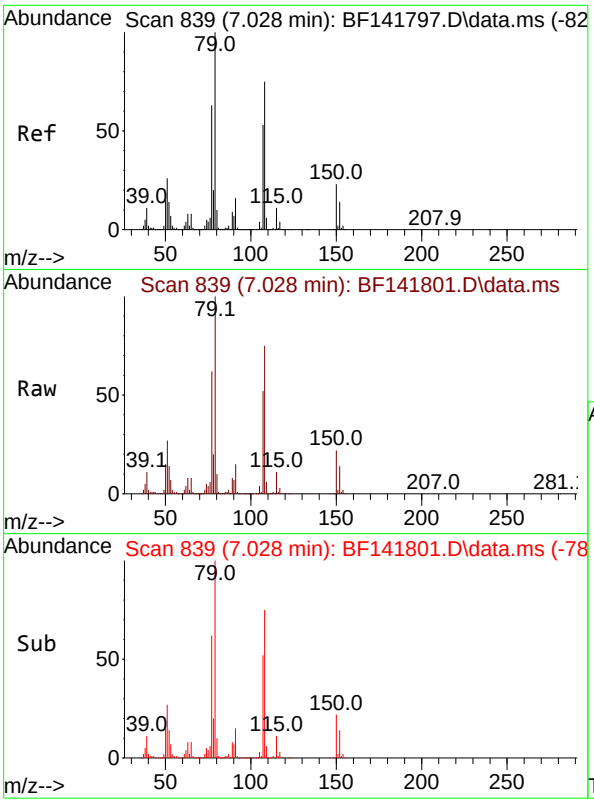


#14
1,2-Dichlorobenzene
Concen: 40.857 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:146 Resp: 938112

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	47.5	37.8	56.6



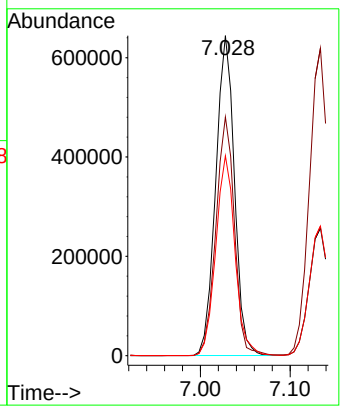


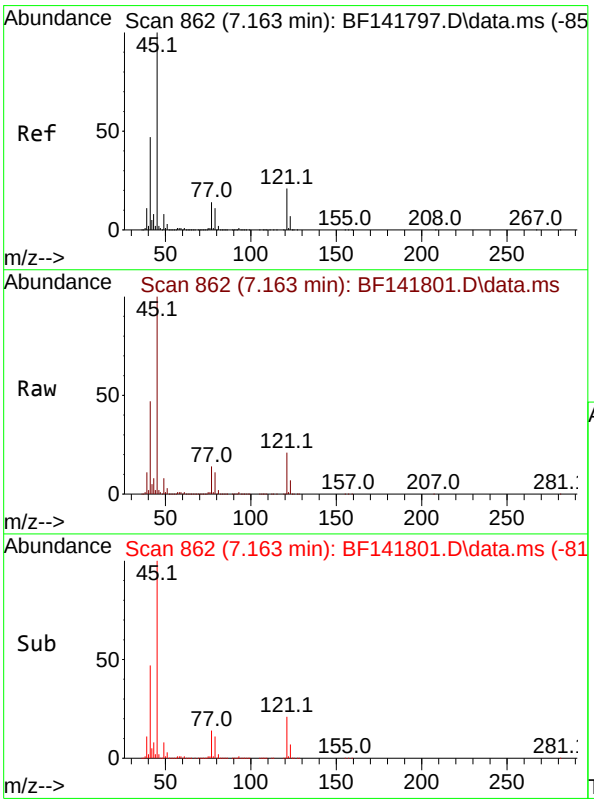
#15
Benzyl Alcohol
Concen: 42.564 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 79 Resp: 932679

Ion	Ratio	Lower	Upper
79	100		
108	74.6	60.2	90.2
77	62.5	50.2	75.2

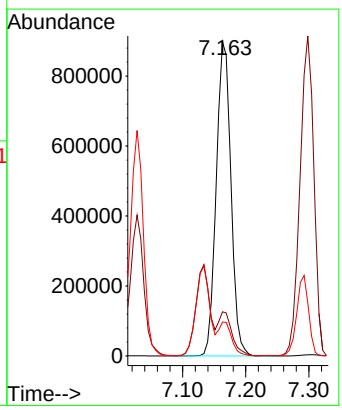


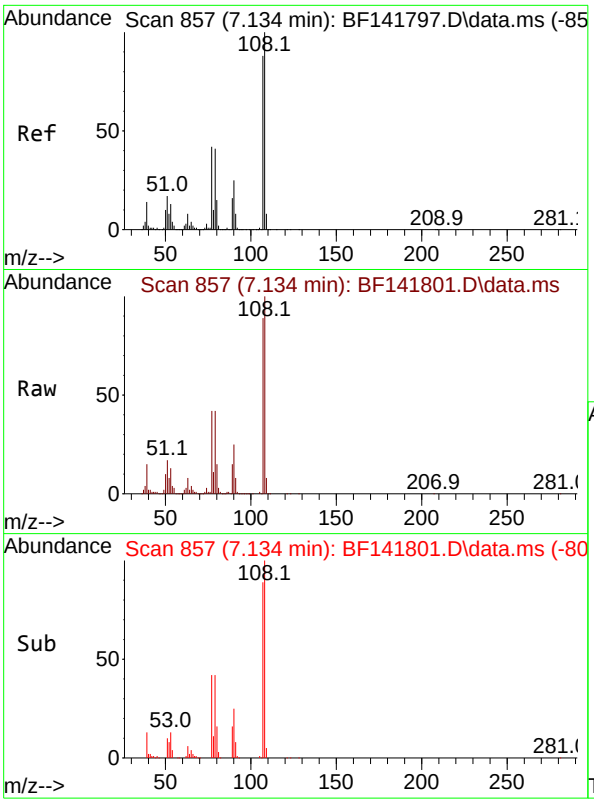


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.679 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 45 Resp: 1447535

Ion	Ratio	Lower	Upper
45	100		
77	14.1	0.0	34.4
79	10.8	0.0	30.9



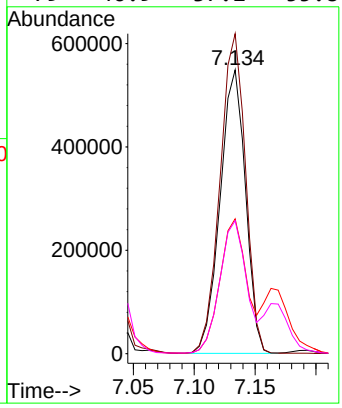


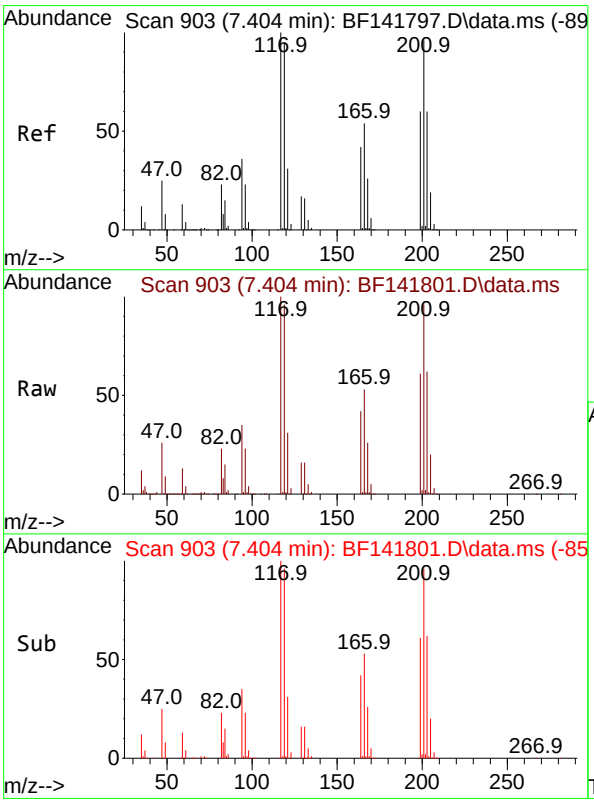
#17
2-Methylphenol
Concen: 42.365 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:107 Resp: 796850

Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.6	135.8
77	47.6	37.7	56.5
79	46.9	37.2	55.8

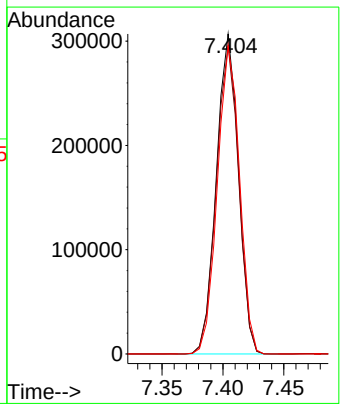


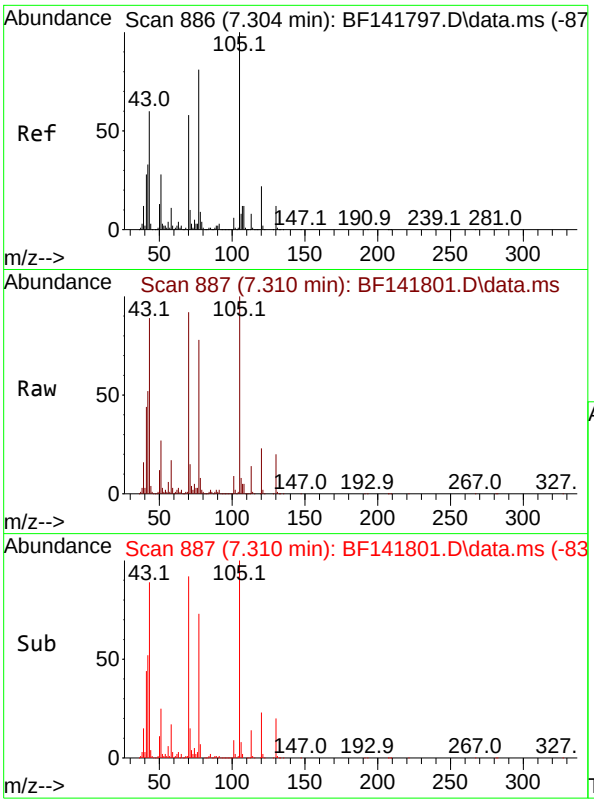


#18
Hexachloroethane
Concen: 42.366 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:117 Resp: 389901

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.8	113.8
201	96.2	76.7	115.1



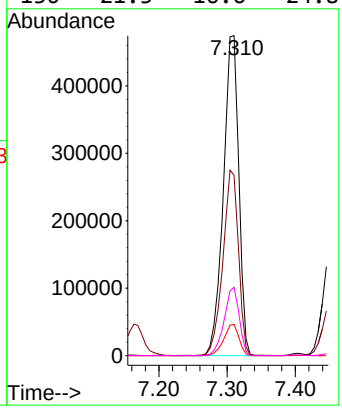


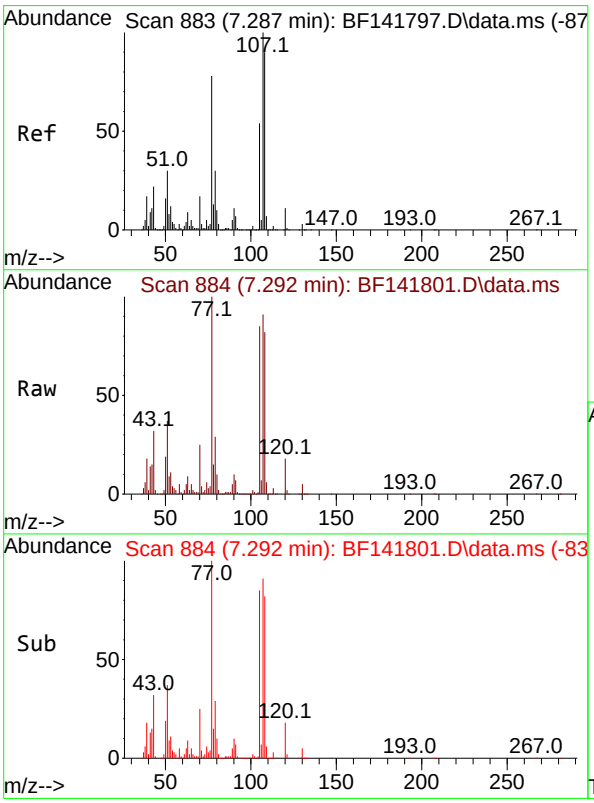
#19
n-Nitroso-di-n-propylamine
Concen: 41.525 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 70 Resp: 748423

Ion	Ratio	Lower	Upper
70	100		
42	56.4	45.4	68.0
101	9.8	7.8	11.8
130	21.3	16.6	24.8

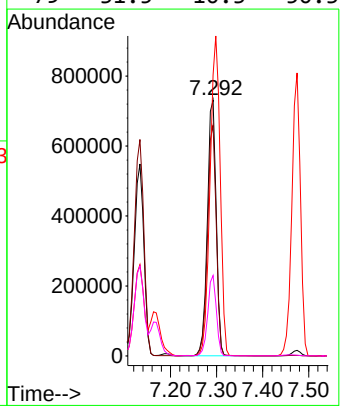


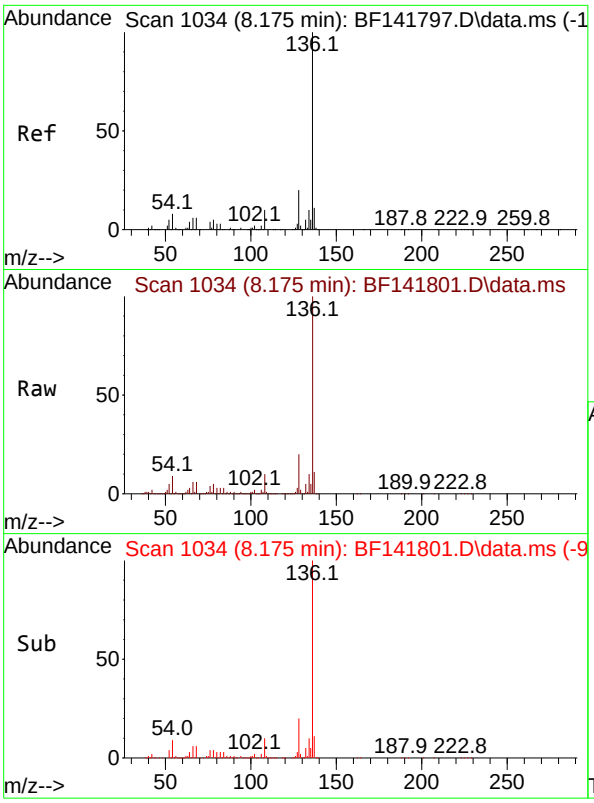


#20
3+4-Methylphenols
Concen: 41.840 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:107 Resp: 979968

Ion	Ratio	Lower	Upper
107	100		
108	90.2	69.7	109.7
77	109.8	58.3	98.3#
79	31.5	10.3	50.3



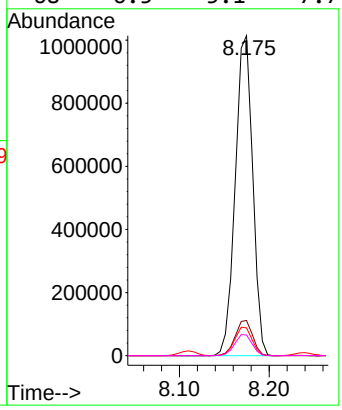


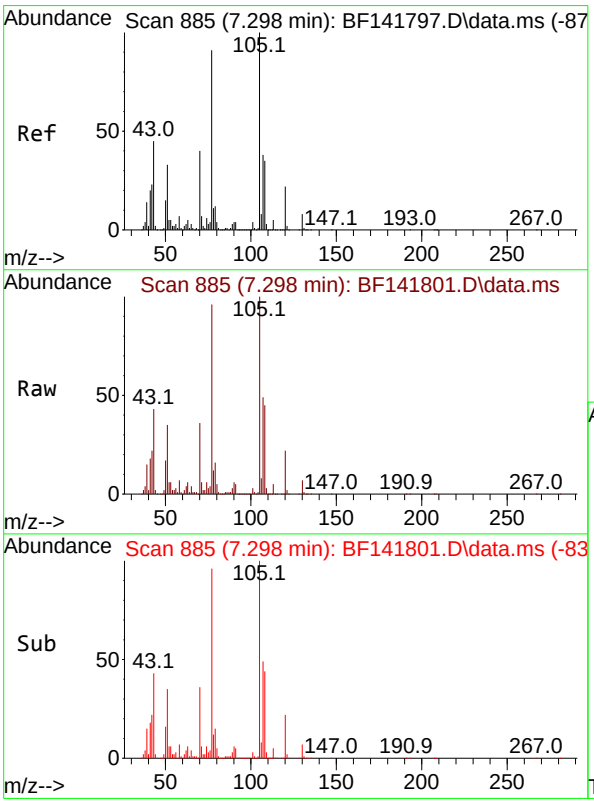
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:136 Resp: 1367272

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.7	6.9	10.3
68	6.5	5.1	7.7

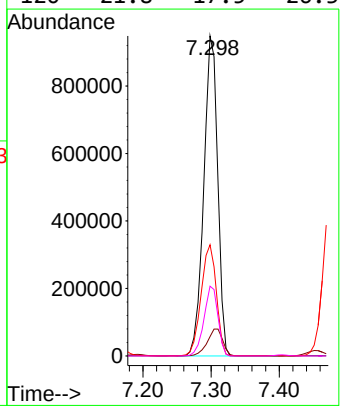


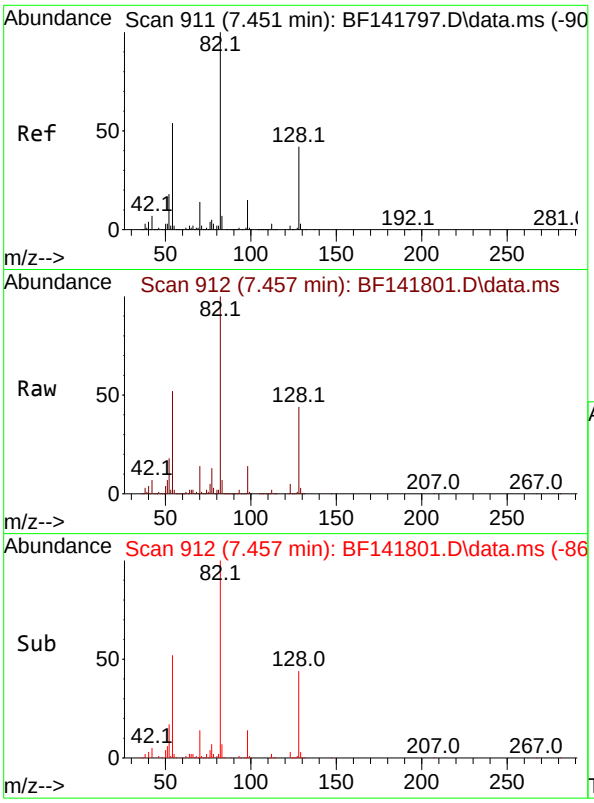


#22
Acetophenone
Concen: 40.417 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:105 Resp: 1345874

Ion	Ratio	Lower	Upper
105	100		
71	6.1	5.4	8.0
51	34.8	26.1	39.1
120	21.8	17.5	26.3



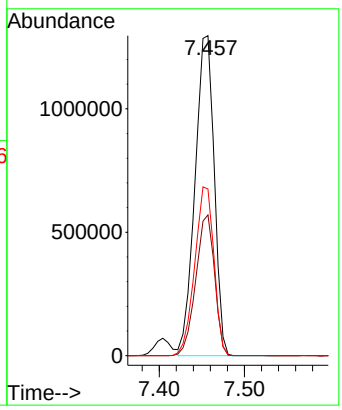


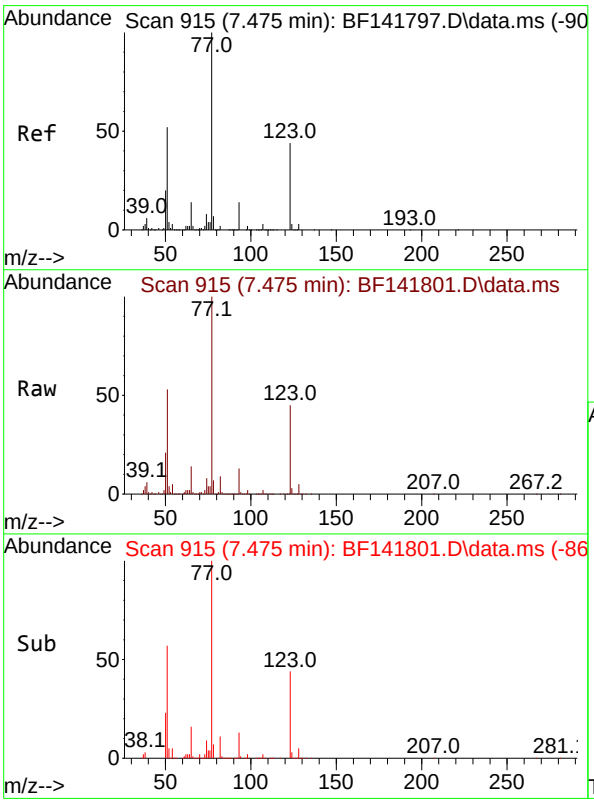
#23
Nitrobenzene-d5
Concen: 94.707 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 82 Resp: 2025812

Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	52.1	42.7	64.1

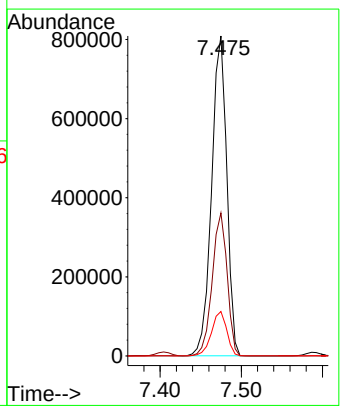


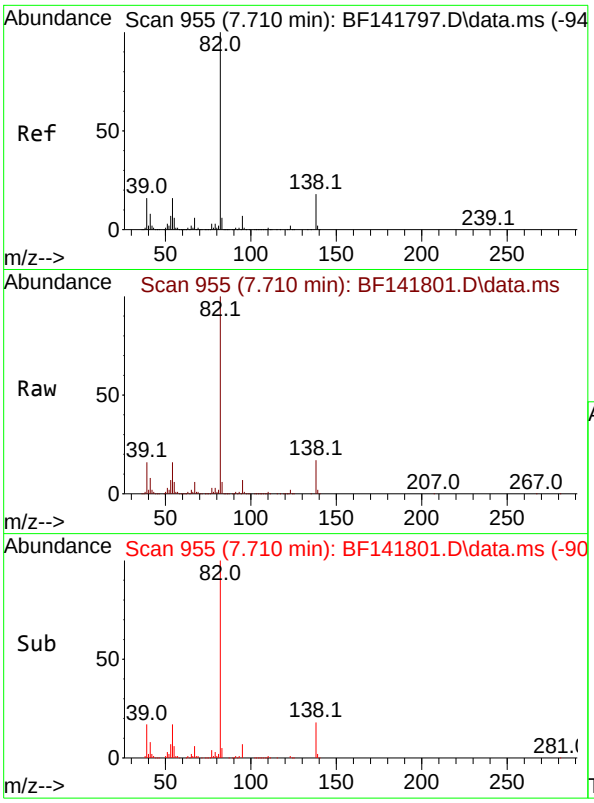


#24
Nitrobenzene
Concen: 45.751 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 77 Resp: 1047974

Ion	Ratio	Lower	Upper
77	100		
123	44.7	35.8	53.8
65	13.9	11.2	16.8



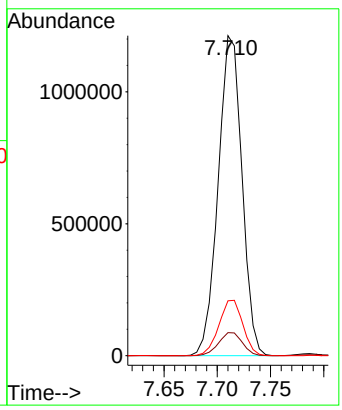


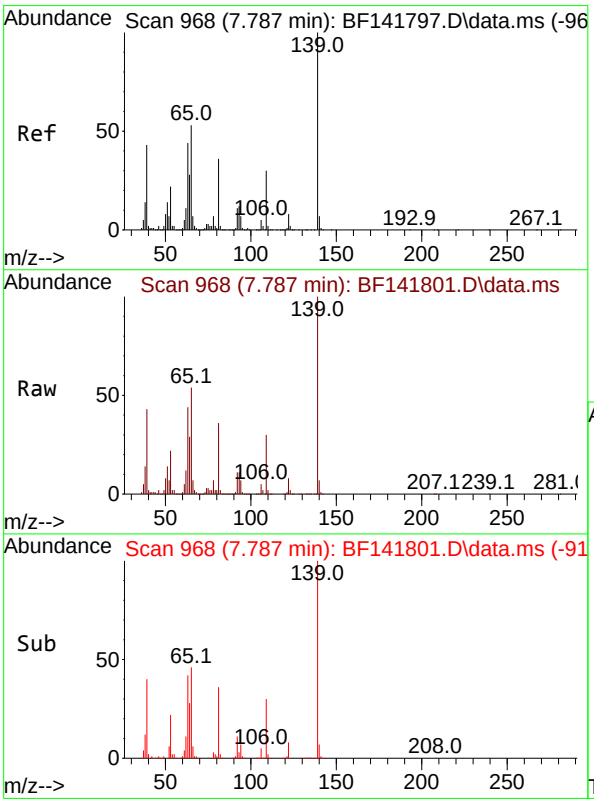
#25
Isophorone
Concen: 40.944 ng
RT: 7.710 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 82 Resp: 1881562

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	17.2	14.0	21.0

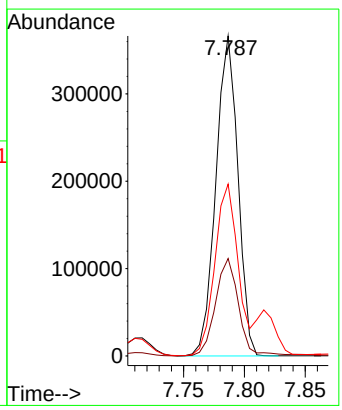


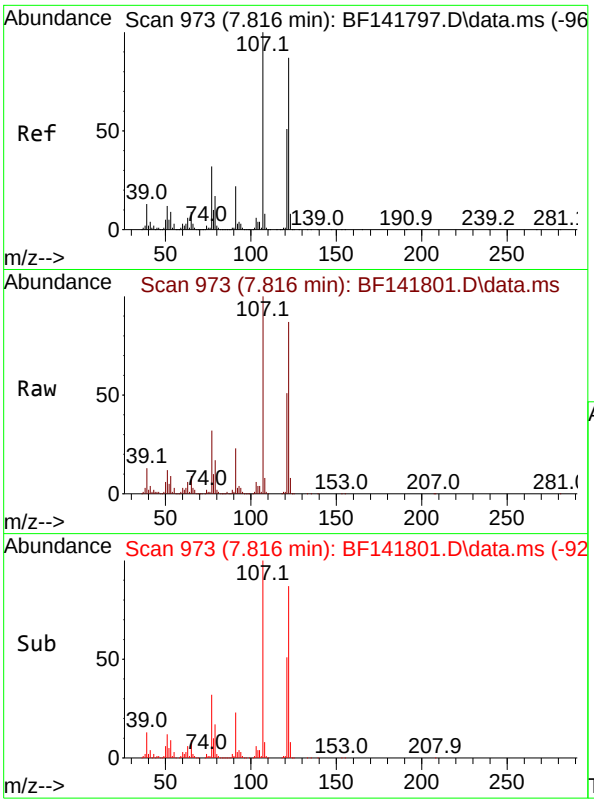


#26
2-Nitrophenol
Concen: 45.447 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:139 Resp: 462297

Ion	Ratio	Lower	Upper
139	100		
109	30.5	24.1	36.1
65	53.7	42.3	63.5



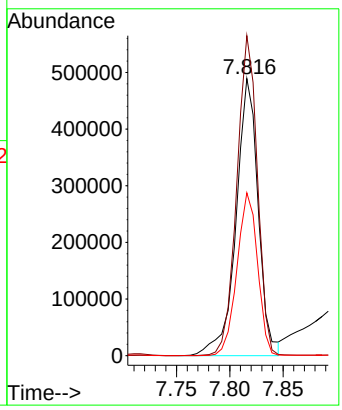


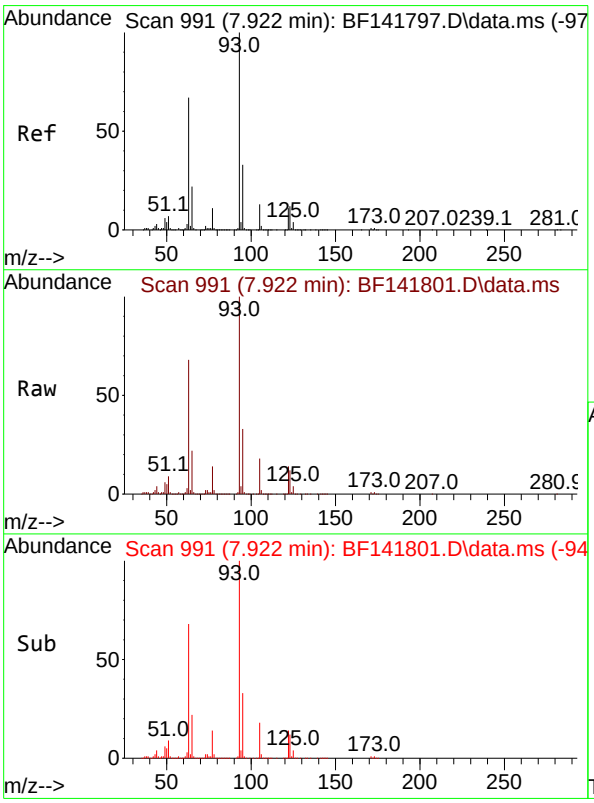
#27
2,4-Dimethylphenol
Concen: 41.931 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:122 Resp: 708317

Ion	Ratio	Lower	Upper
122	100		
107	115.5	92.5	138.7
121	58.8	47.1	70.7

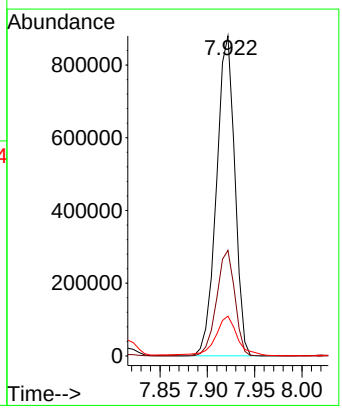


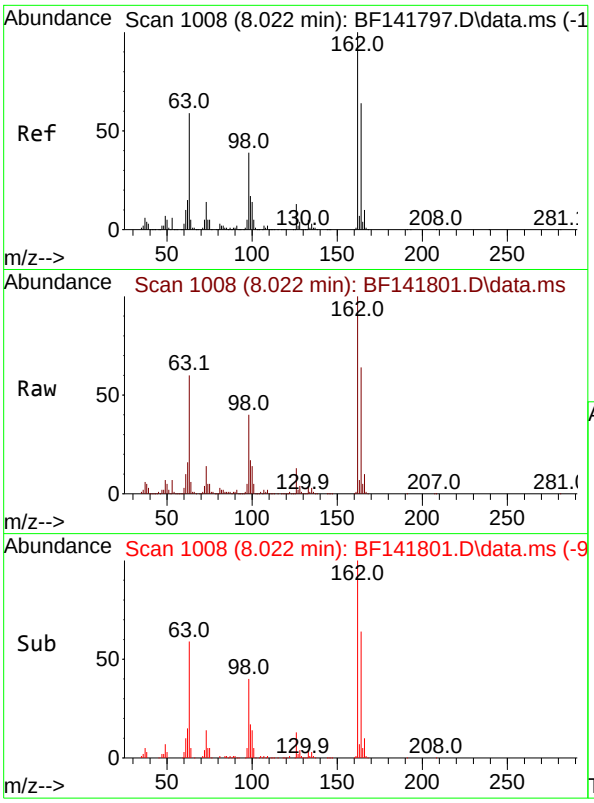


#28
bis(2-Chloroethoxy)methane
Concen: 40.357 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 93 Resp: 1183035

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.4	10.0	15.0



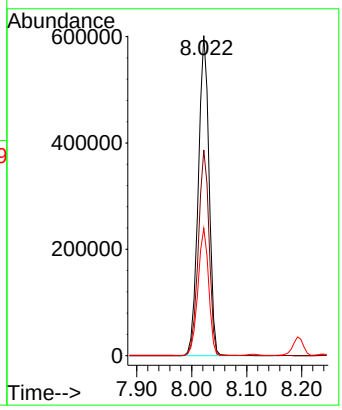


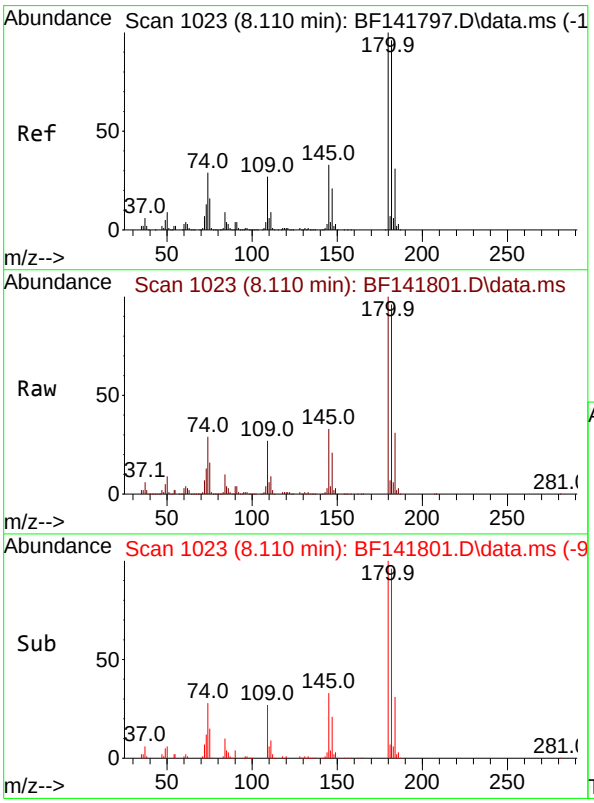
#29
2,4-Dichlorophenol
Concen: 42.157 ng
RT: 8.022 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:162 Resp: 821536

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.3	84.3
98	39.8	19.6	59.6

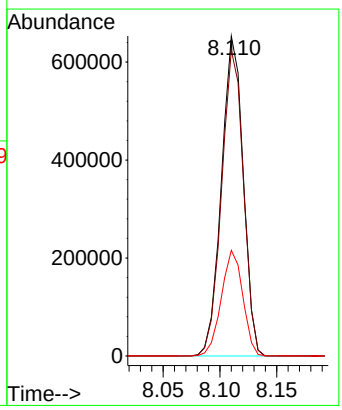


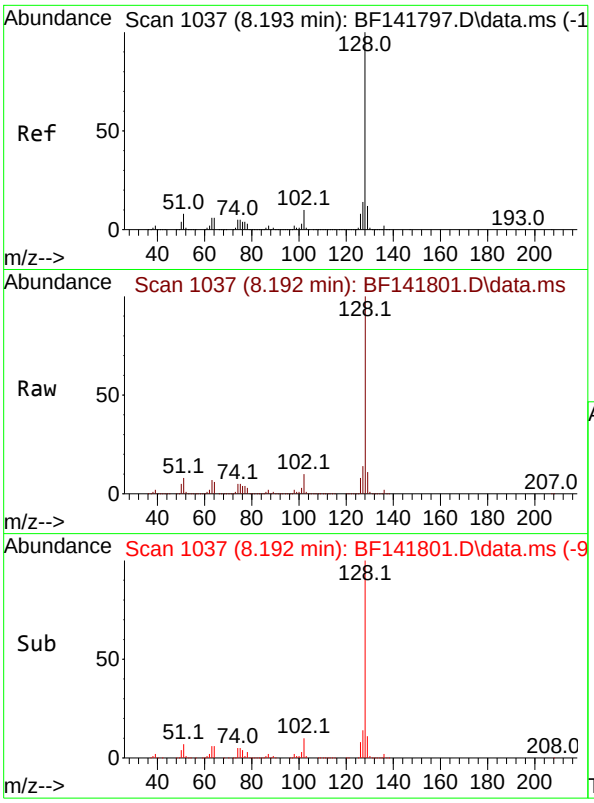


#30
1,2,4-Trichlorobenzene
Concen: 40.757 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:180 Resp: 870339

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.8	115.2
145	33.0	26.4	39.6



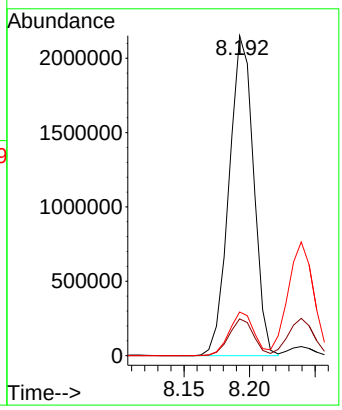


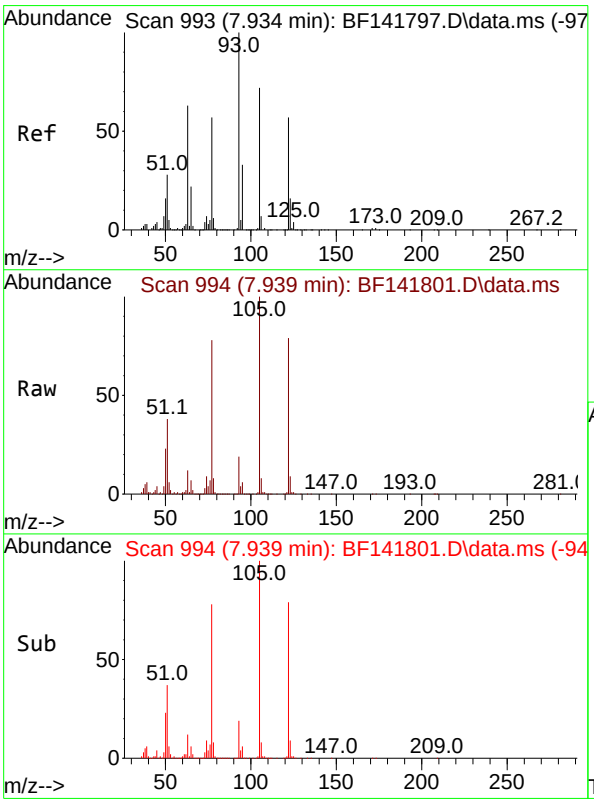
#31
Naphthalene
Concen: 39.854 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:128 Resp: 2800645

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.4

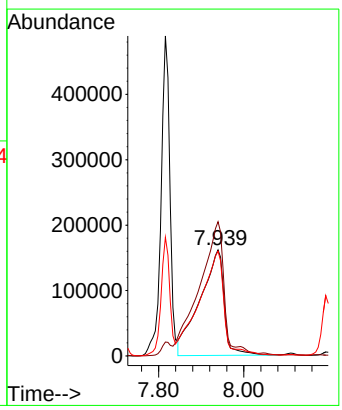


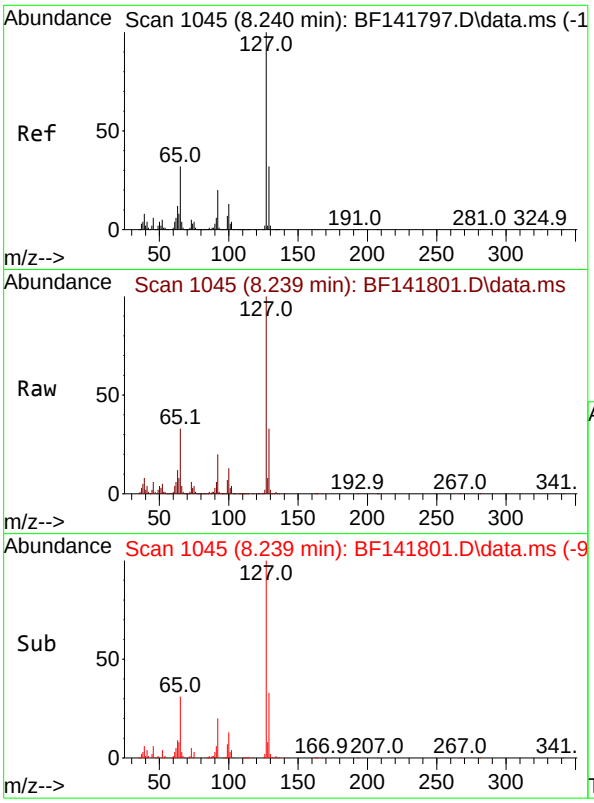


#32
Benzoic acid
Concen: 45.545 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.005 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:122 Resp: 635541

Ion	Ratio	Lower	Upper
122	100		
105	126.6	105.8	145.8
77	98.8	79.9	119.9



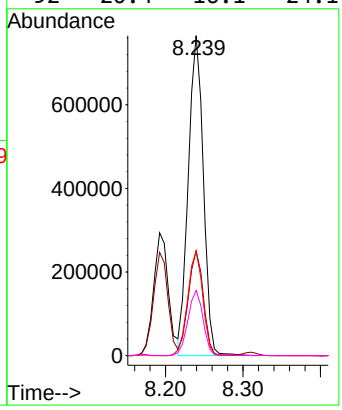


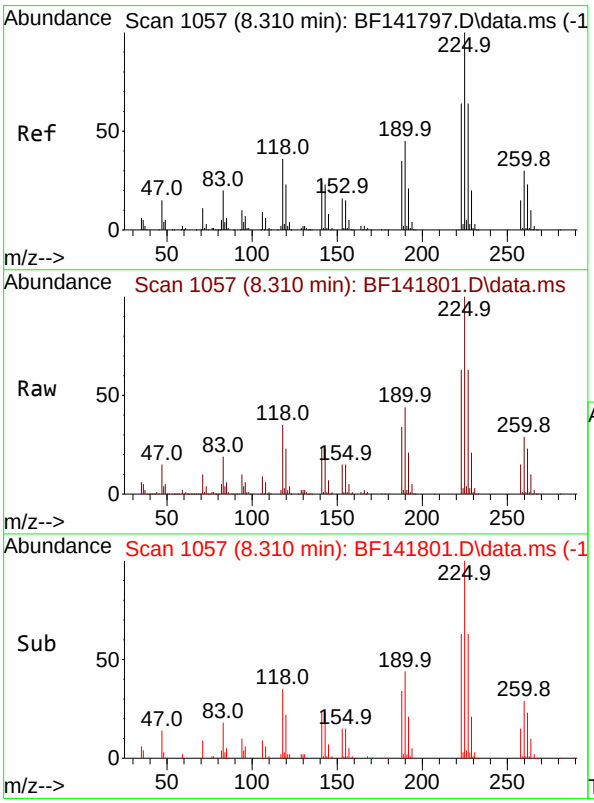
#33
4-Chloroaniline
Concen: 40.096 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:127 Resp: 1033113

Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.6	25.7	38.5
92	20.4	16.1	24.1

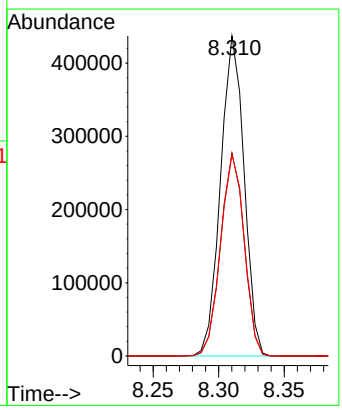


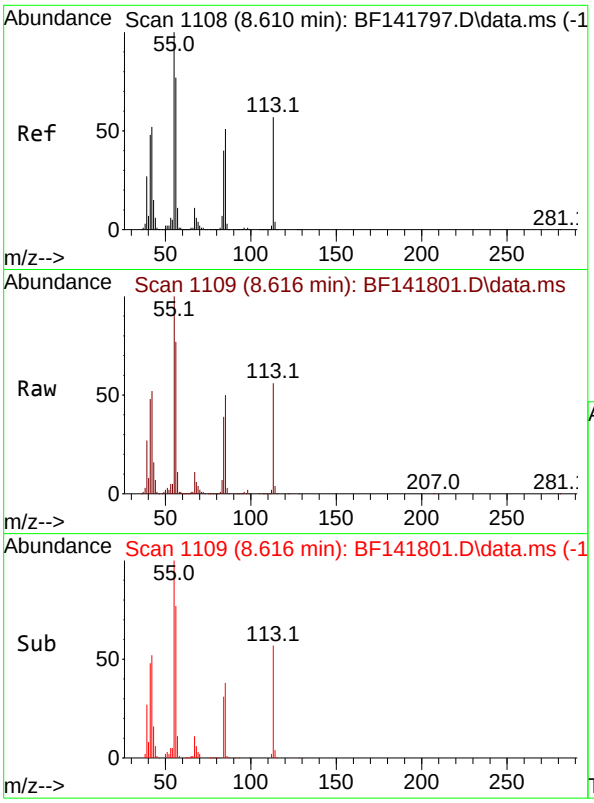


#34
Hexachlorobutadiene
Concen: 41.042 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:225 Resp: 544620

Ion	Ratio	Lower	Upper
225	100		
223	63.4	51.4	77.2
227	63.0	51.6	77.4



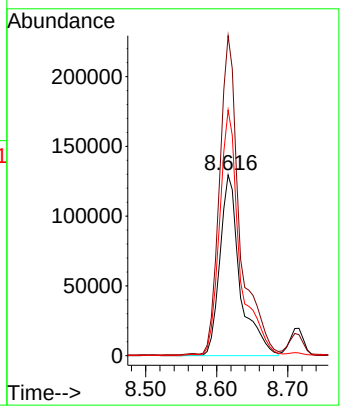


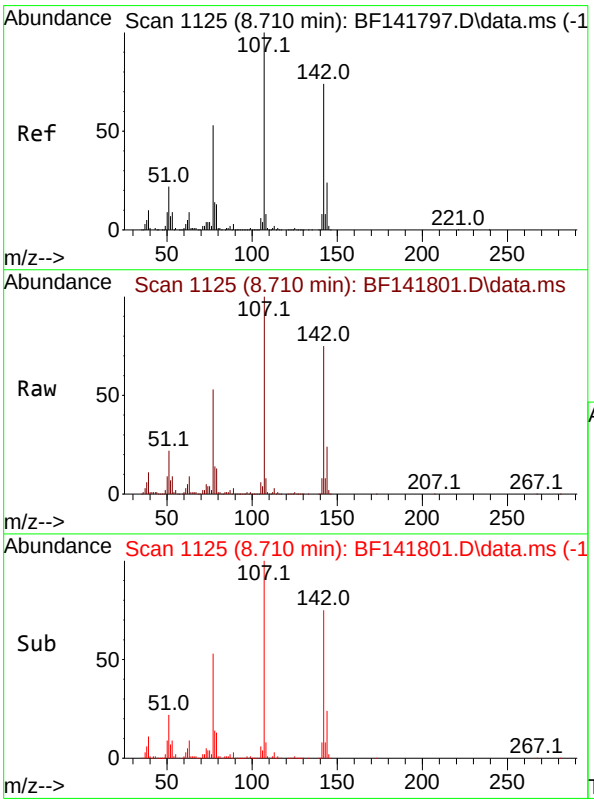
#35
Caprolactam
Concen: 42.737 ng
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:113 Resp: 256209

Ion	Ratio	Lower	Upper
113	100		
55	177.0	155.6	195.6
56	135.9	114.6	154.6

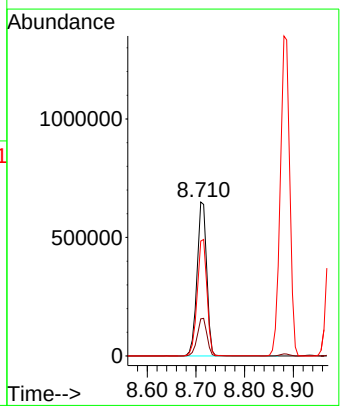


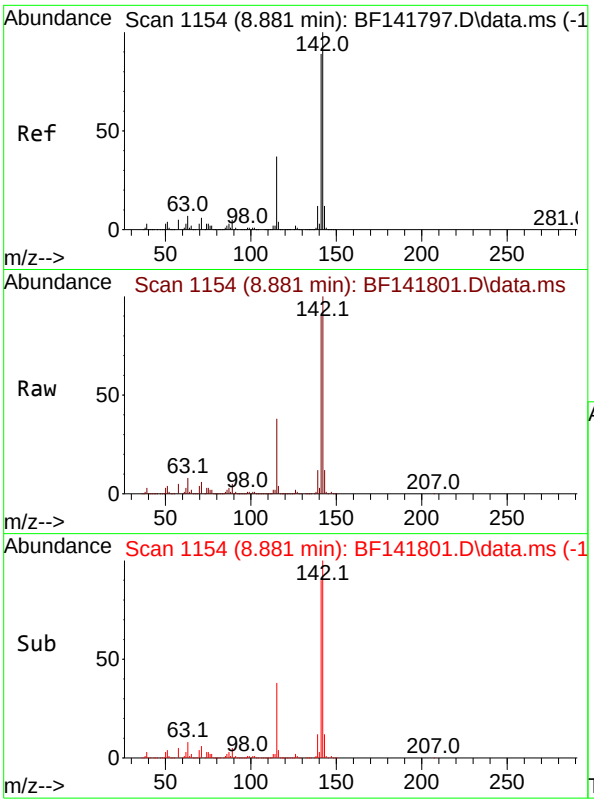


#36
4-Chloro-3-methylphenol
Concen: 41.844 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:107 Resp: 905842

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.4	29.0
142	74.6	59.4	89.0



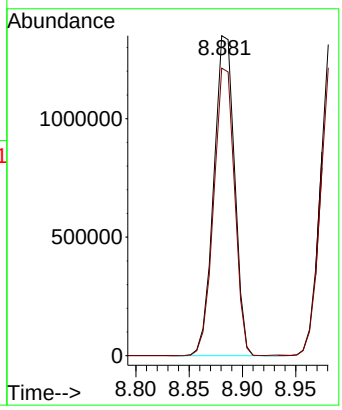


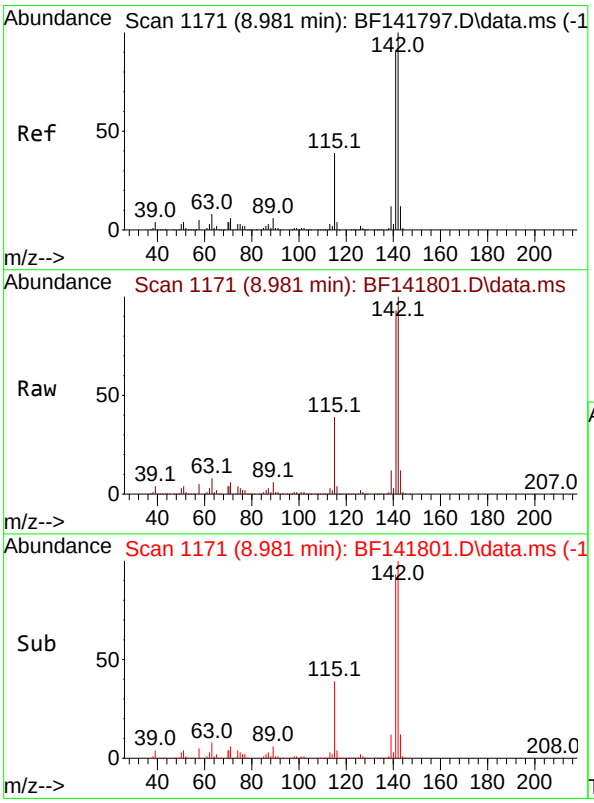
#37
2-Methylnaphthalene
Concen: 39.710 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:142 Resp: 1830313

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.1	106.7

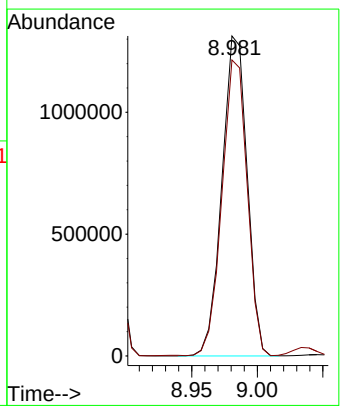


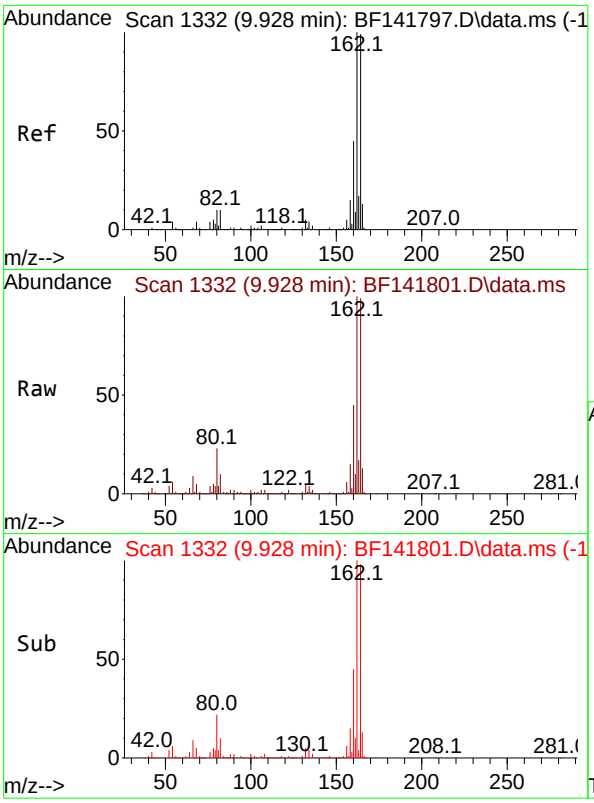


#38
1-Methylnaphthalene
Concen: 39.635 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:142 Resp: 1752937

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7



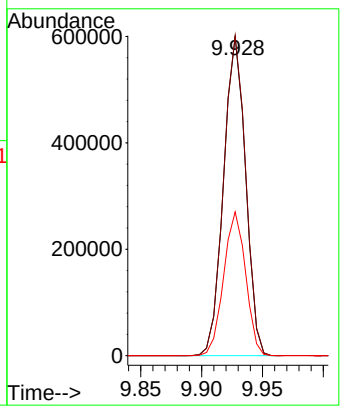


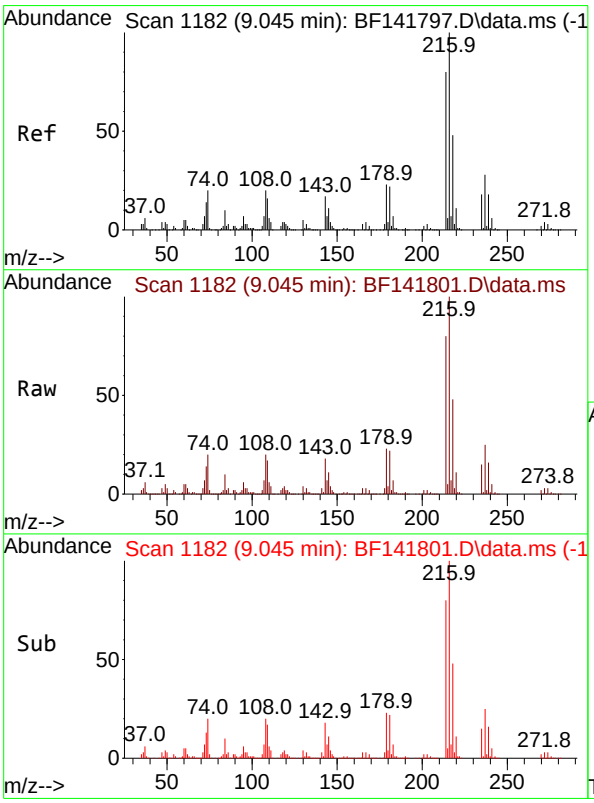
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:164 Resp: 753741

Ion	Ratio	Lower	Upper
164	100		
162	100.6	80.6	120.8
160	45.2	36.3	54.5

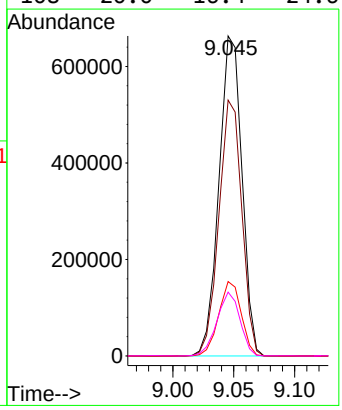


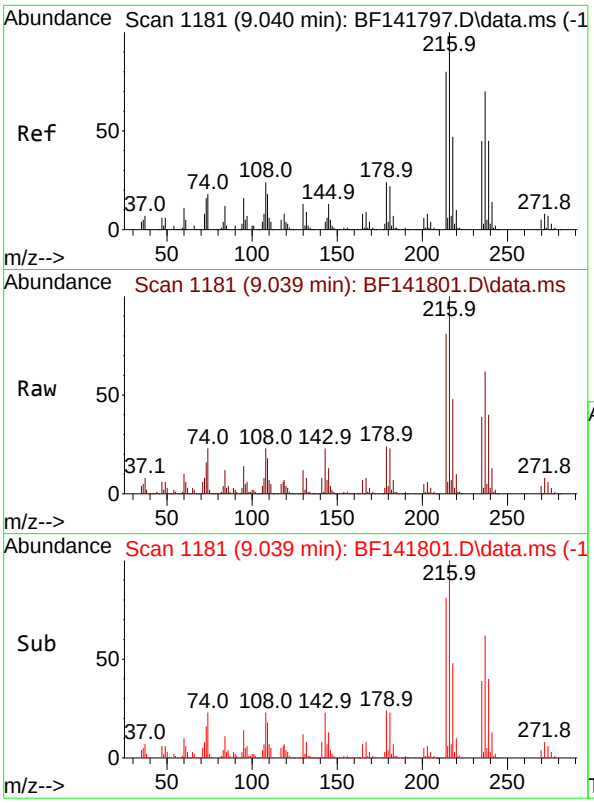


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.086 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:216 Resp: 872629

Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.5	95.3
179	22.8	18.1	27.1
108	20.0	16.4	24.6



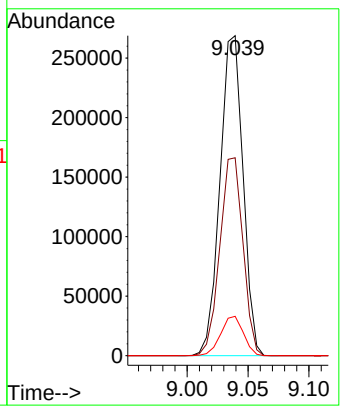


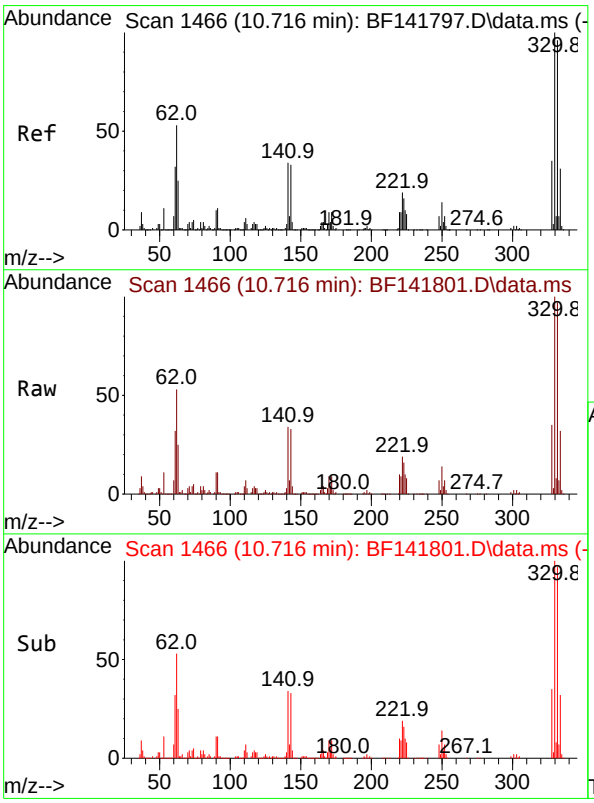
#41
Hexachlorocyclopentadiene
Concen: 38.975 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:237 Resp: 354082

Ion	Ratio	Lower	Upper
237	100		
235	61.8	43.3	83.3
272	12.3	0.0	31.9

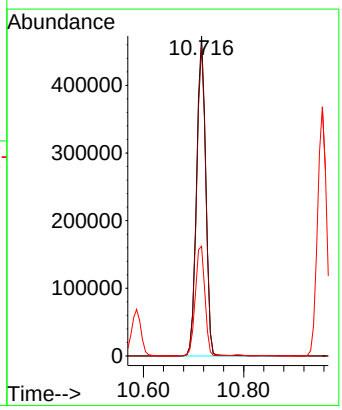


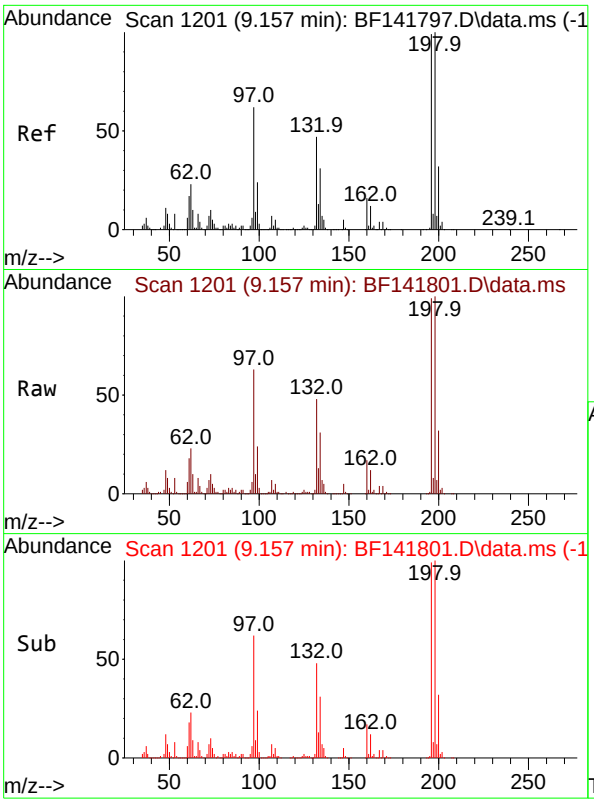


#42
2,4,6-Tribromophenol
Concen: 84.321 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:330 Resp: 596677

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.6	115.0
141	36.1	29.0	43.4



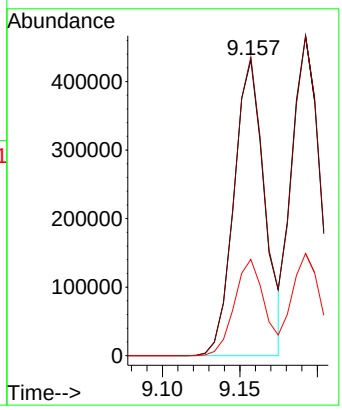


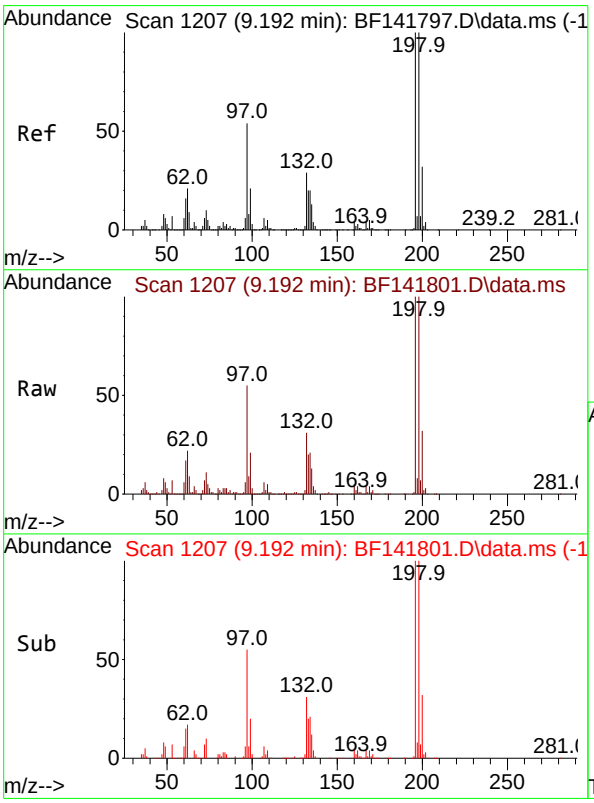
#43
2,4,6-Trichlorophenol
Concen: 42.156 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:196 Resp: 592786

Ion	Ratio	Lower	Upper
196	100		
198	101.0	80.4	120.6
200	32.6	25.7	38.5

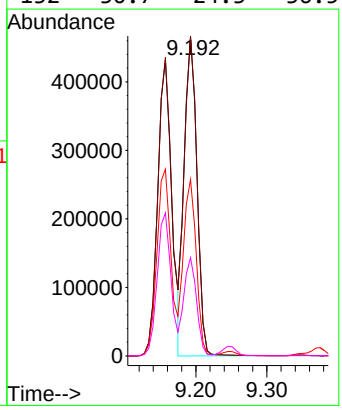


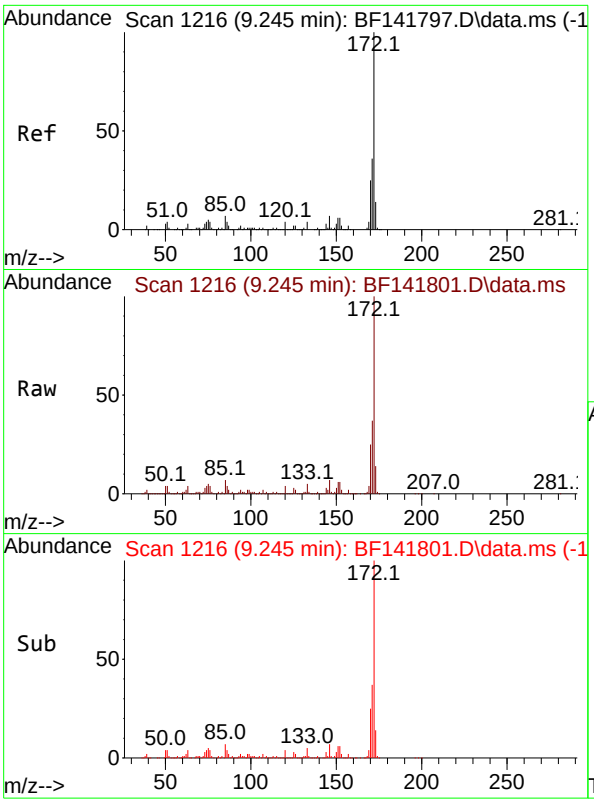


#44
2,4,5-Trichlorophenol
Concen: 41.806 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:196 Resp: 582125

Ion	Ratio	Lower	Upper
196	100		
198	99.8	79.7	119.5
97	55.2	44.2	66.2
132	30.7	24.3	36.5



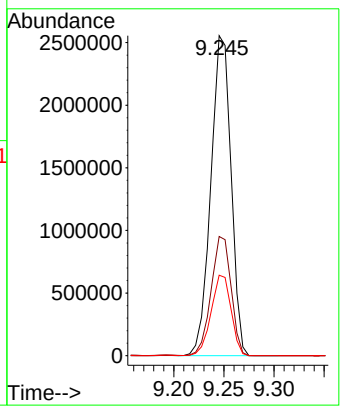


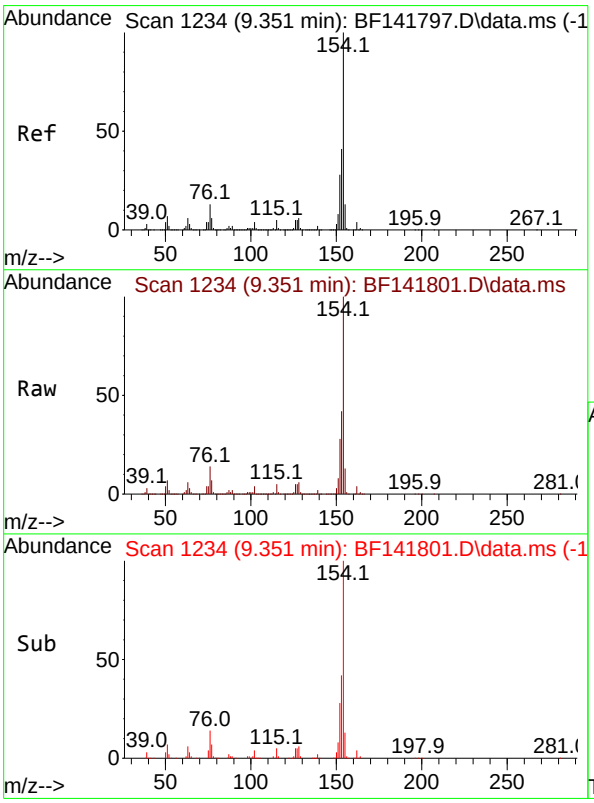
#45
2-Fluorobiphenyl
Concen: 75.957 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:172 Resp: 3570541

Ion	Ratio	Lower	Upper
172	100		
171	37.2	29.2	43.8
170	25.1	19.7	29.5

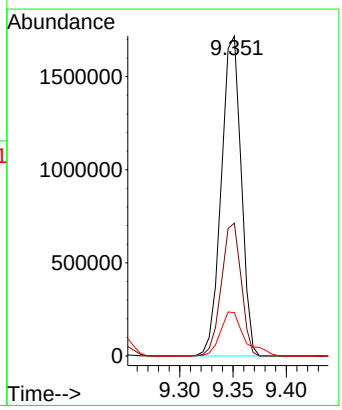


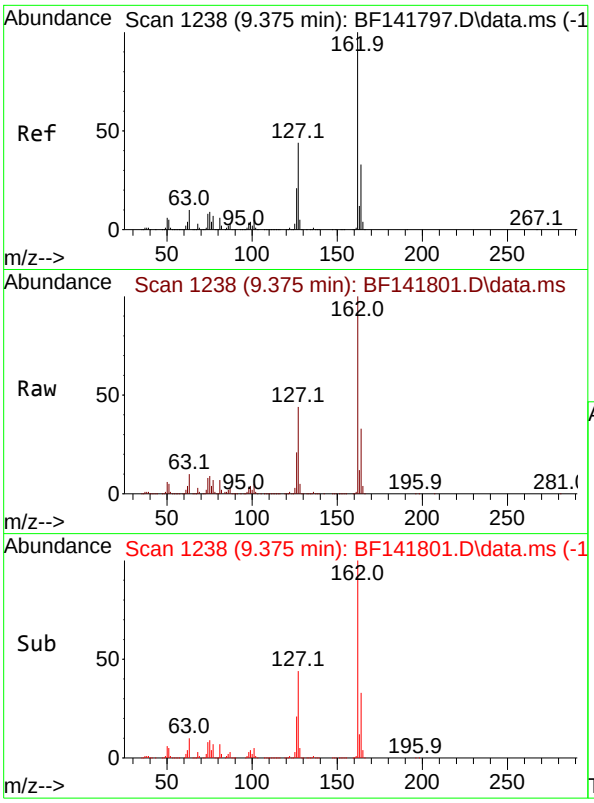


#46
1,1'-Biphenyl
Concen: 38.864 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:154 Resp: 2229687

Ion	Ratio	Lower	Upper
154	100		
153	41.5	21.4	61.4
76	13.6	0.0	33.4



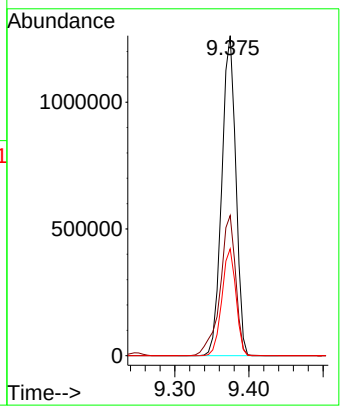


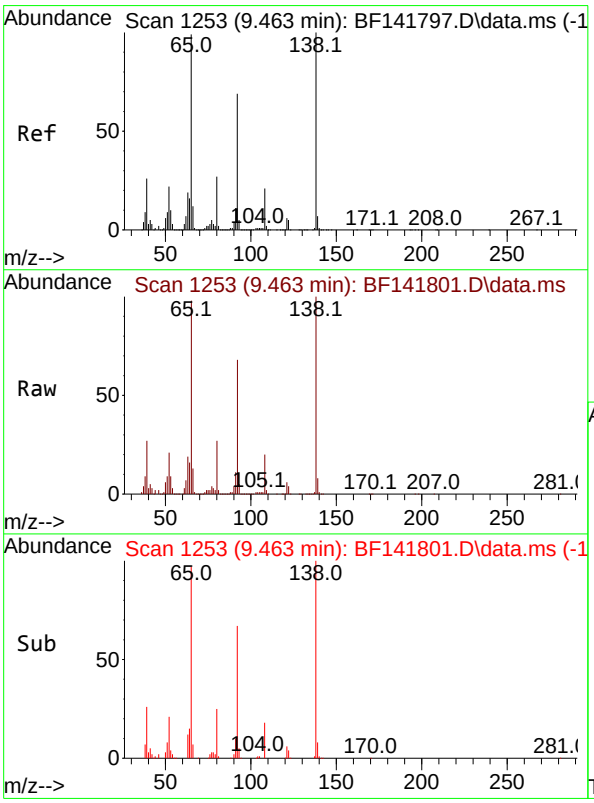
#47
2-Chloronaphthalene
Concen: 39.288 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:162 Resp: 1663643

Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.0	52.6
164	33.4	26.6	40.0

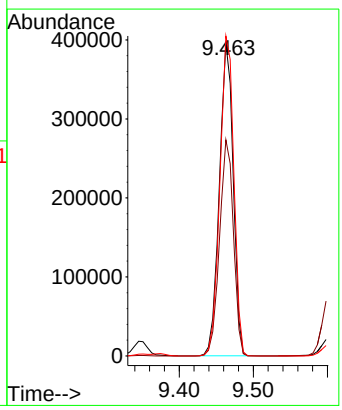


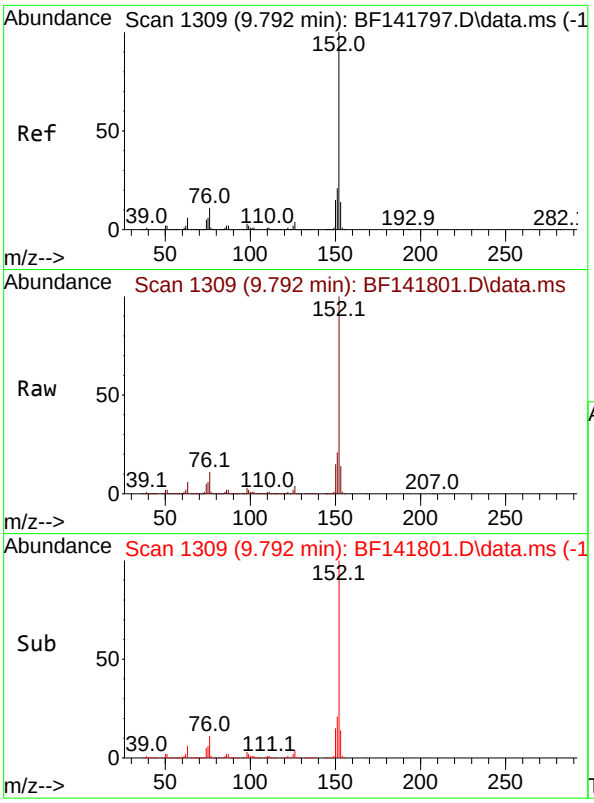


#48
2-Nitroaniline
Concen: 44.684 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion: 65 Resp: 514104

Ion	Ratio	Lower	Upper
65	100		
92	69.1	55.7	83.5
138	102.2	80.6	121.0



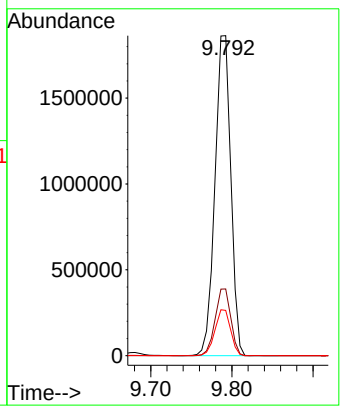


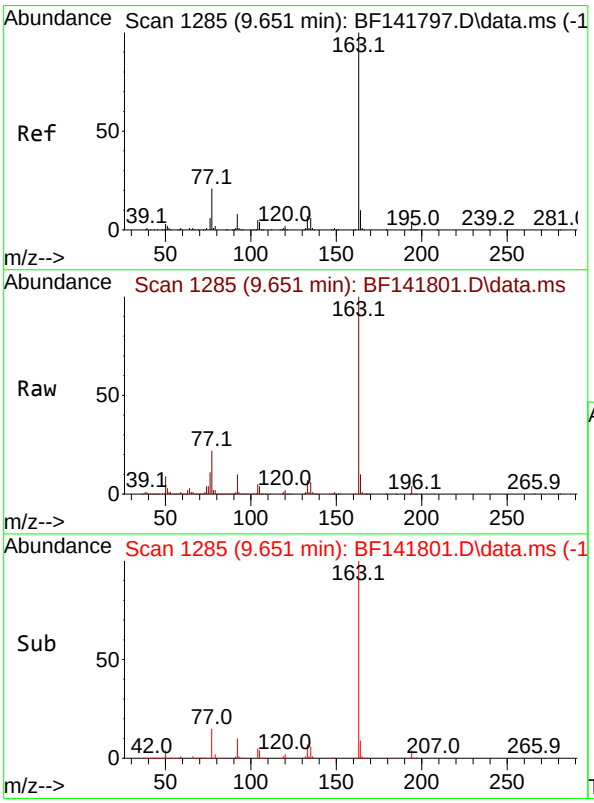
#49
Acenaphthylene
Concen: 39.907 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:152 Resp: 2533613

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	24.8
153	14.1	11.2	16.8

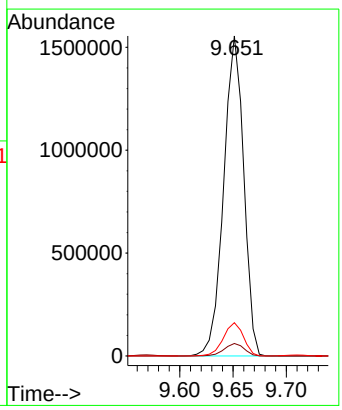


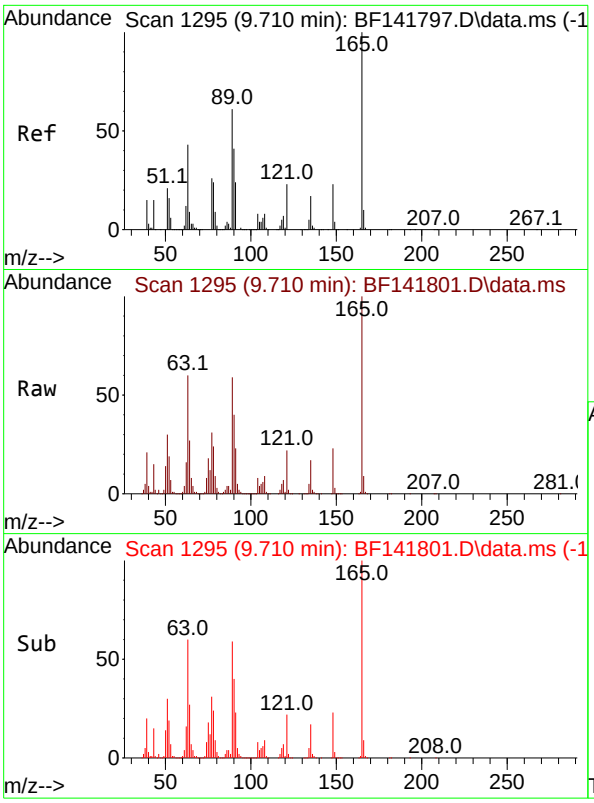


#50
Dimethylphthalate
Concen: 40.250 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:163 Resp: 2031698

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.4	8.4	12.6



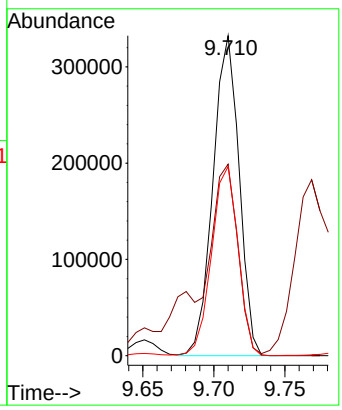


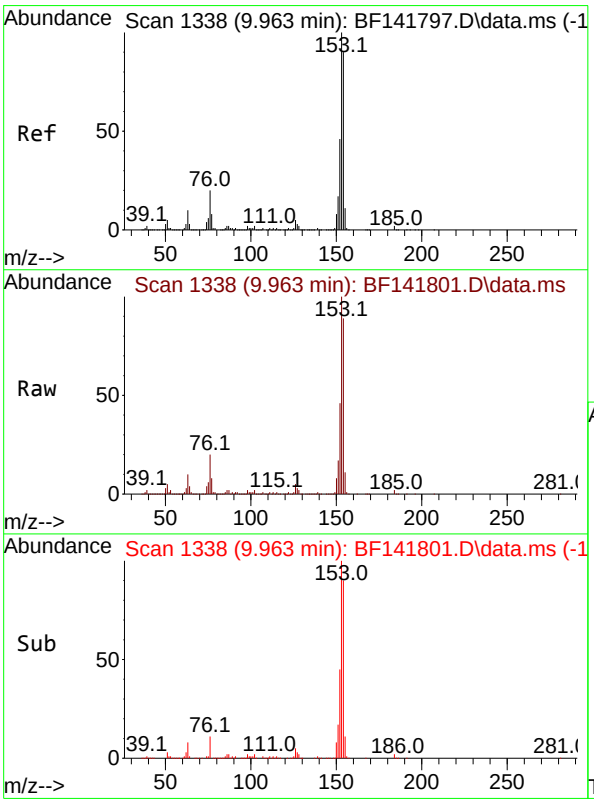
#51
2,6-Dinitrotoluene
Concen: 44.292 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:165 Resp: 425445

Ion	Ratio	Lower	Upper
165	100		
63	59.8	49.5	74.3
89	59.1	49.0	73.4

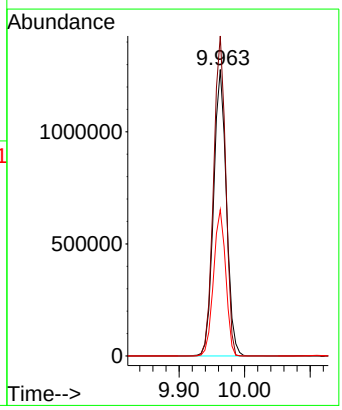


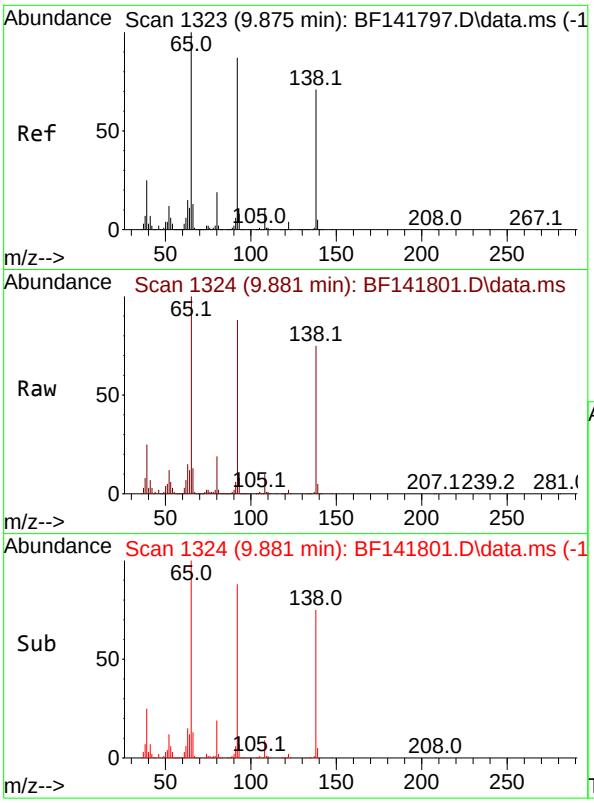


#52
Acenaphthene
Concen: 40.488 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:154 Resp: 1734464

Ion	Ratio	Lower	Upper
154	100		
153	111.7	88.7	133.1
152	51.0	40.9	61.3



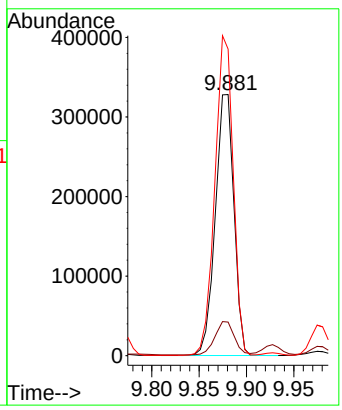


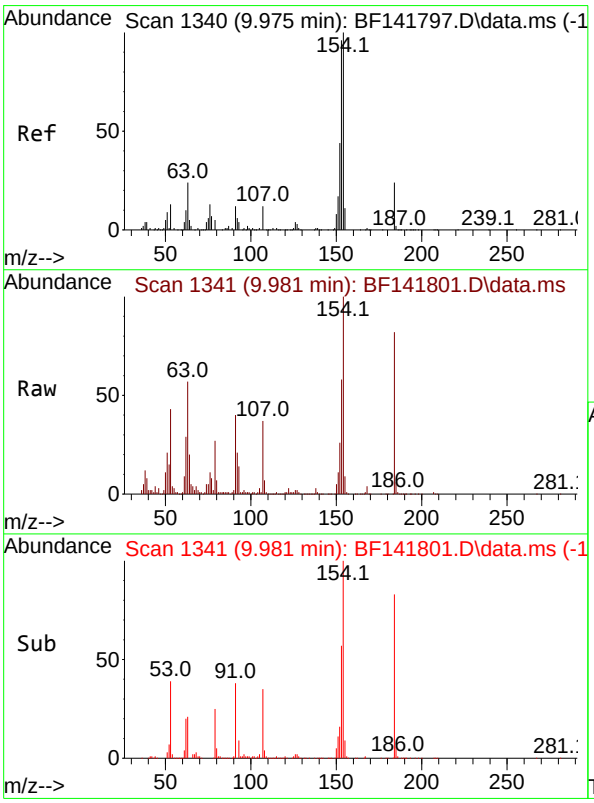
#53
3-Nitroaniline
Concen: 43.938 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:138 Resp: 449174

Ion	Ratio	Lower	Upper
138	100		
108	12.9	12.7	19.1
92	117.4	97.9	146.9

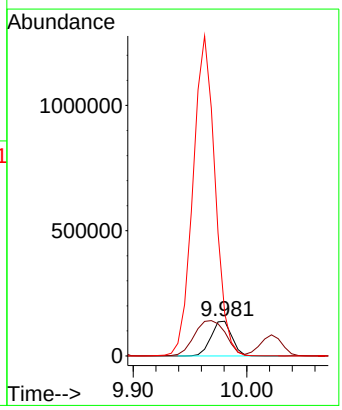


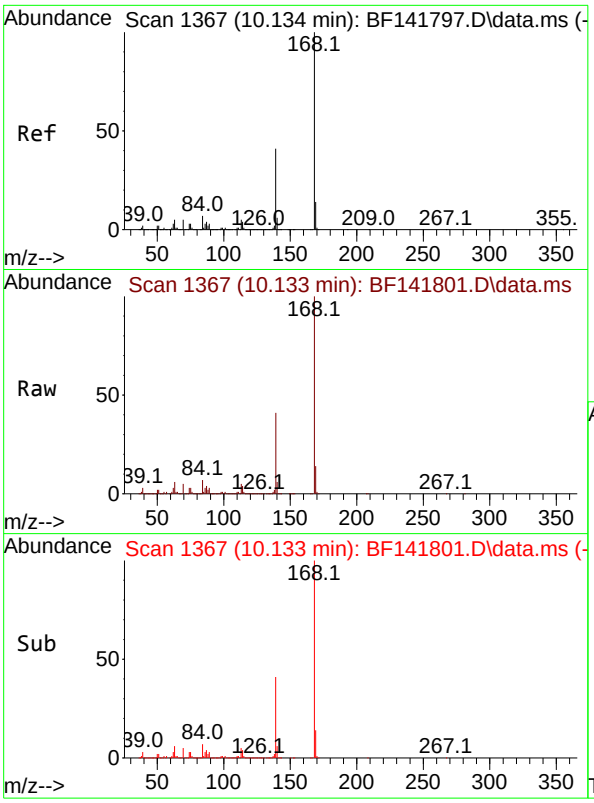


#54
2,4-Dinitrophenol
Concen: 47.494 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:184 Resp: 176378

Ion	Ratio	Lower	Upper
184	100		
63	69.1	79.0	118.6#
154	121.2	335.8	503.8#



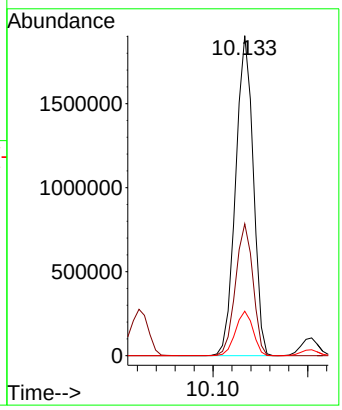


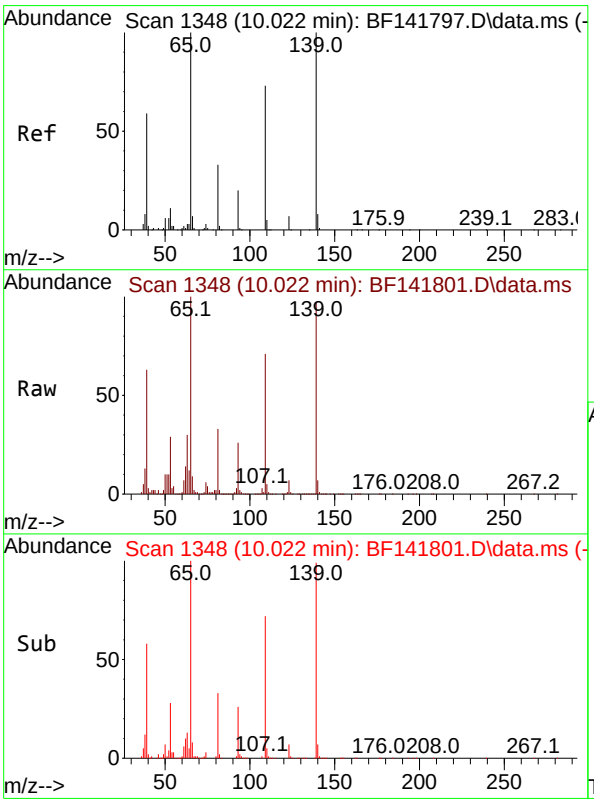
#55
Dibenzofuran
Concen: 39.391 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:168 Resp: 2456099

Ion	Ratio	Lower	Upper
168	100		
139	41.2	32.9	49.3
169	13.9	11.1	16.7

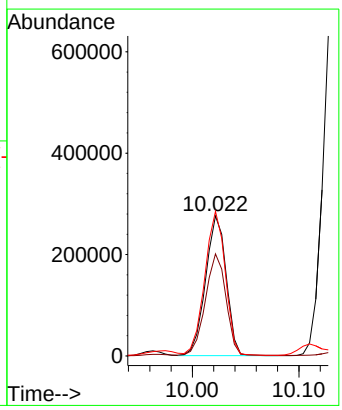


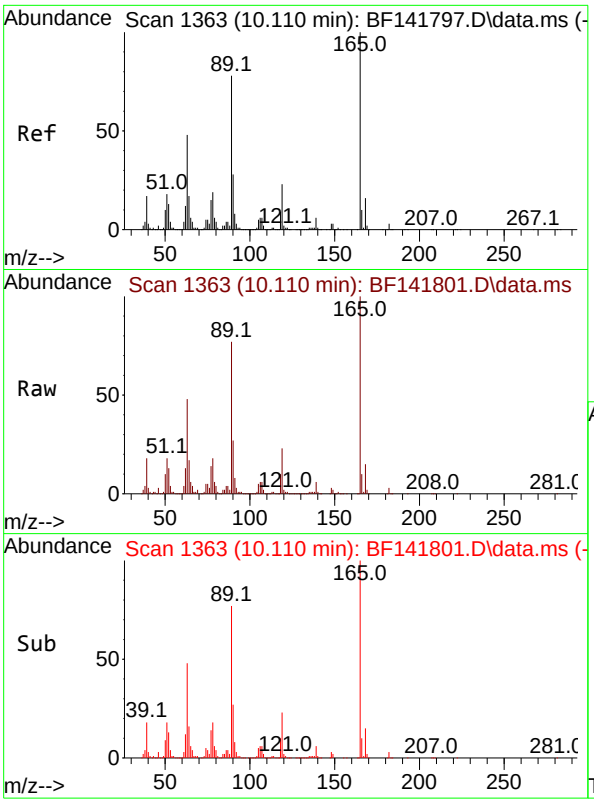


#56
4-Nitrophenol
Concen: 49.725 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:139 Resp: 370704

Ion	Ratio	Lower	Upper
139	100		
109	72.9	53.4	93.4
65	103.3	82.1	122.1



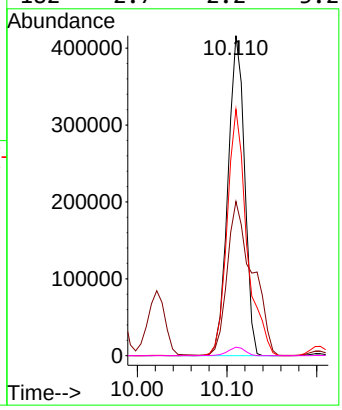


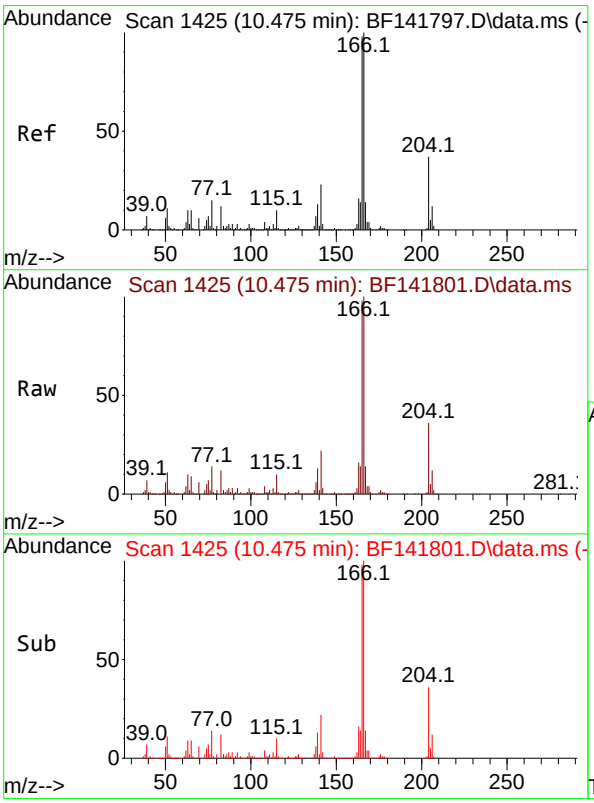
#57
2,4-Dinitrotoluene
Concen: 45.704 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:165 Resp: 536914

Ion	Ratio	Lower	Upper
165	100		
63	48.2	38.8	58.2
89	77.0	62.6	94.0
182	2.7	2.2	3.2

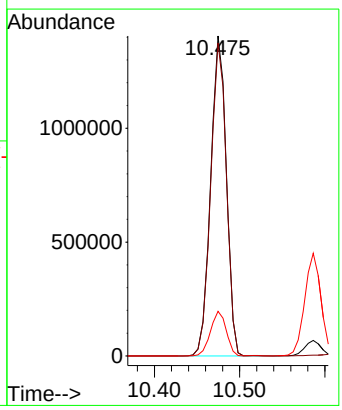


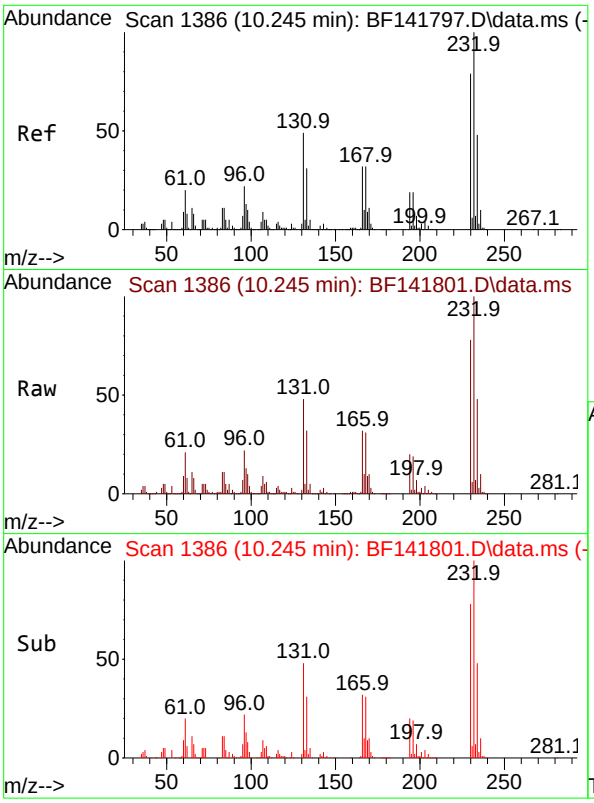


#58
Fluorene
Concen: 38.547 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:166 Resp: 1800318

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.6	117.8
167	14.0	11.0	16.4



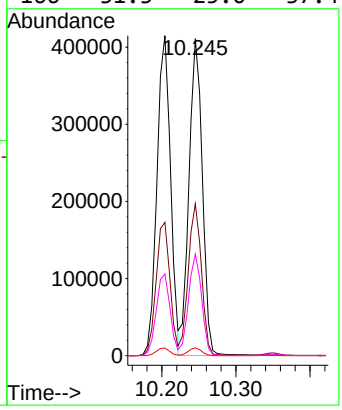


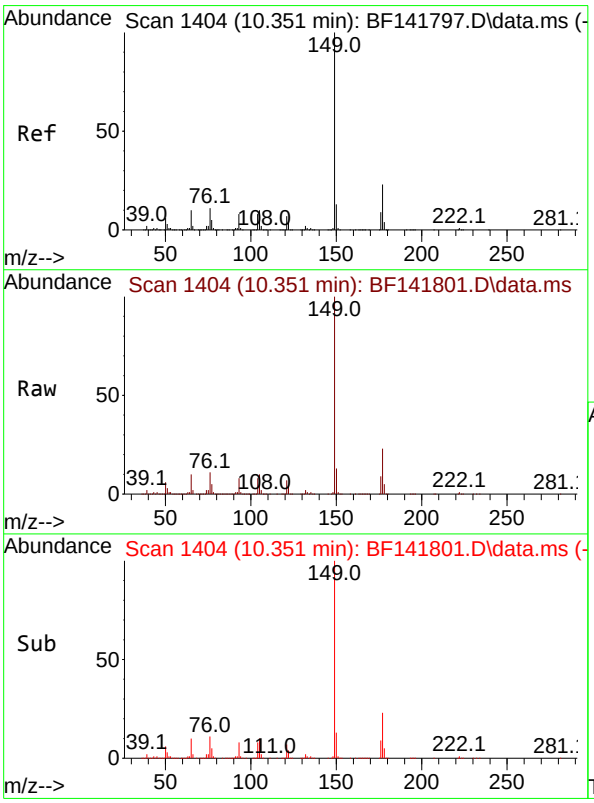
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.607 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:232 Resp: 515976

Ion	Ratio	Lower	Upper
232	100		
131	47.1	37.8	56.8
130	2.5	2.0	3.0
166	31.3	25.0	37.4

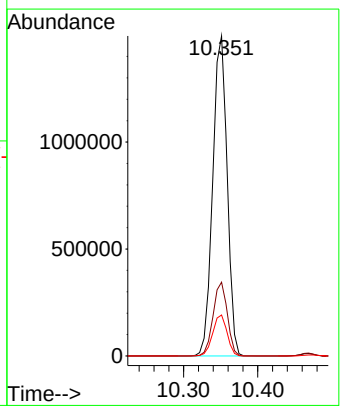


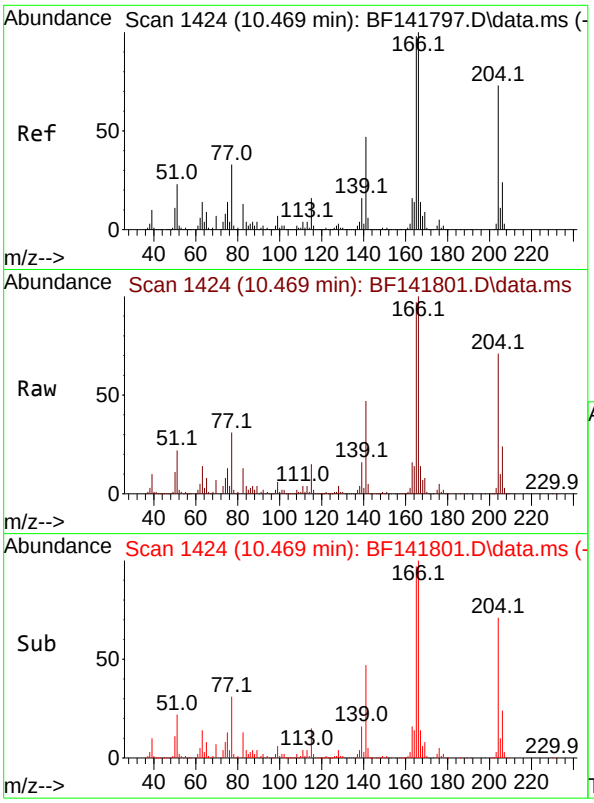


#60
Diethylphthalate
Concen: 39.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 2018830

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.3	27.5
150	12.8	10.3	15.5



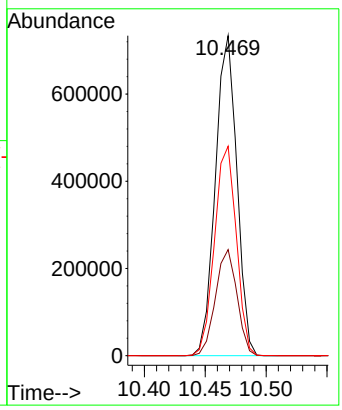


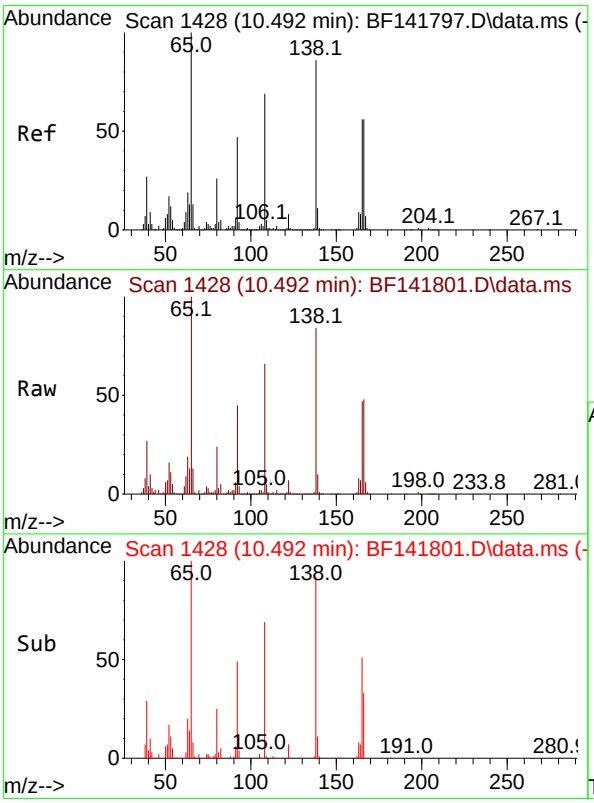
#61
4-Chlorophenyl-phenylether
Concen: 38.546 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:204 Resp: 901998

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.2	39.4
141	65.4	51.7	77.5

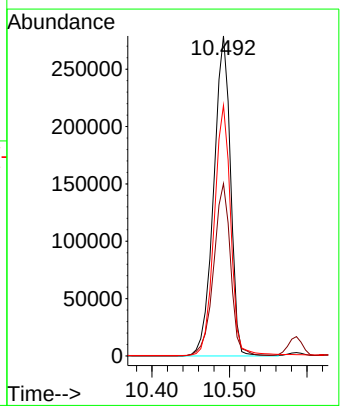


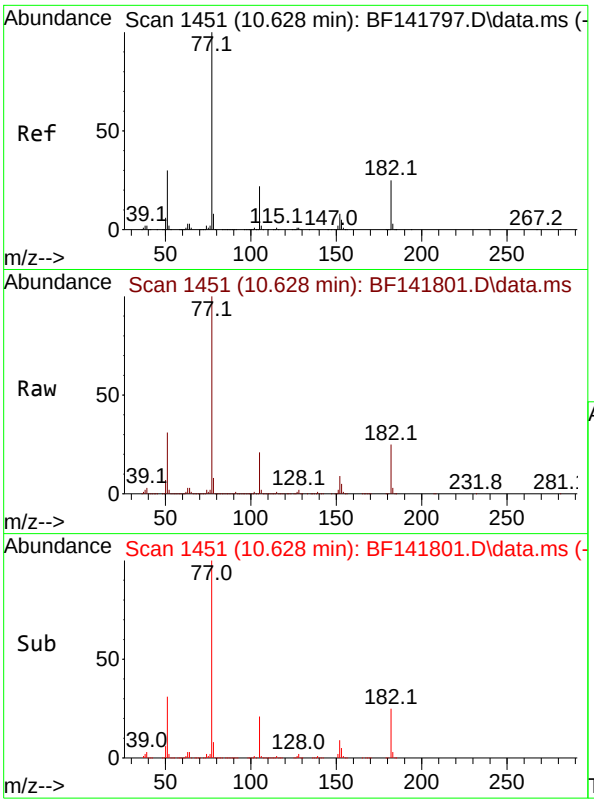


#62
4-Nitroaniline
Concen: 48.866 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:138 Resp: 421232

Ion	Ratio	Lower	Upper
138	100		
92	53.9	34.9	74.9
108	78.3	59.6	99.6



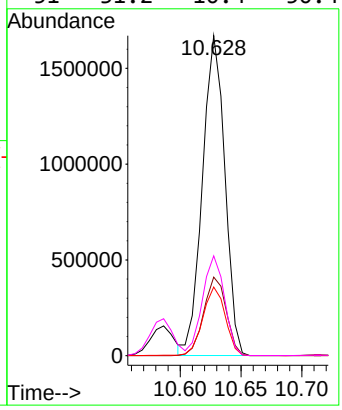


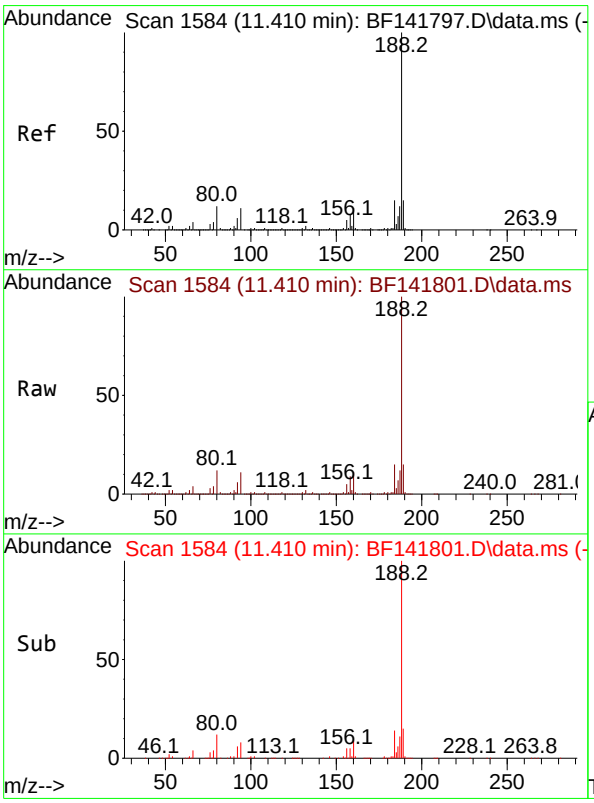
#63
Azobenzene
Concen: 40.188 ng
RT: 10.628 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion: 77 Resp: 2141198

Ion	Ratio	Lower	Upper
77	100		
182	24.5	4.2	44.2
105	21.4	1.5	41.5
51	31.2	10.4	50.4

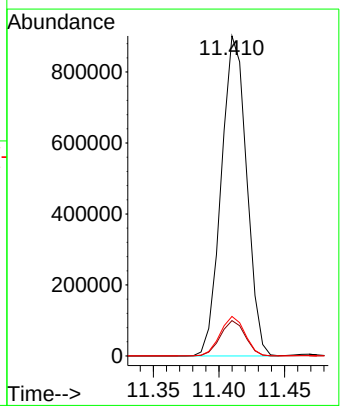


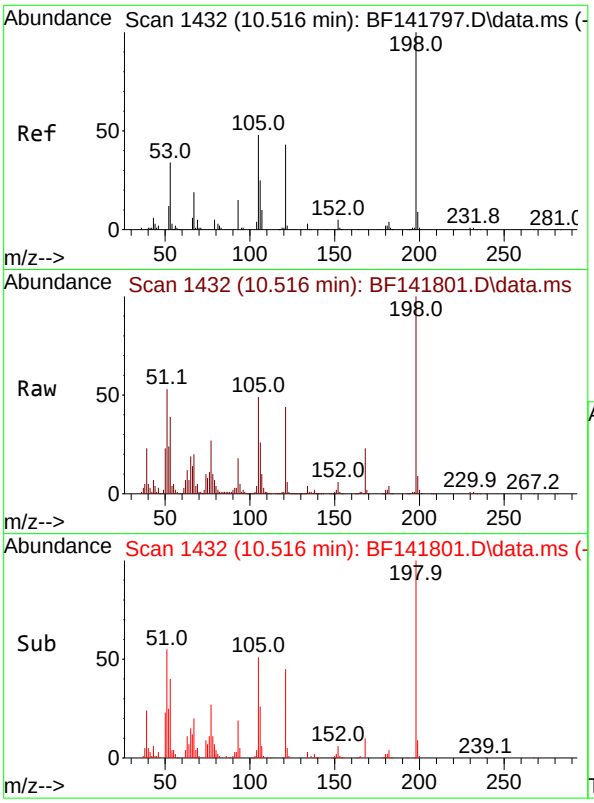


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:188 Resp: 1211382

Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.9	13.3
80	12.3	9.7	14.5



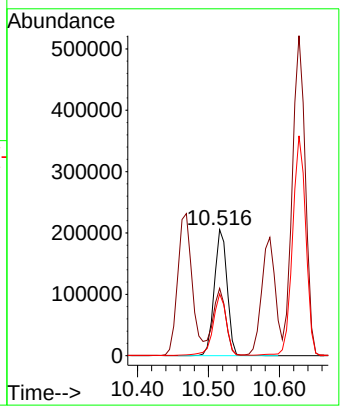


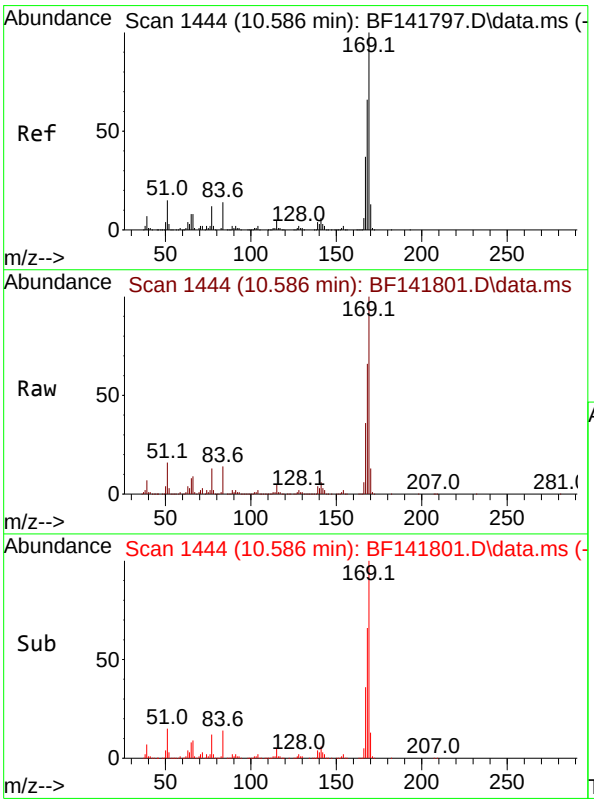
#65
4,6-Dinitro-2-methylphenol
Concen: 45.441 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:198 Resp: 256241

Ion	Ratio	Lower	Upper
198	100		
51	53.4	32.1	72.1
105	49.0	28.5	68.5

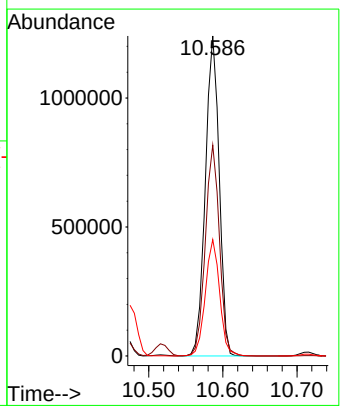


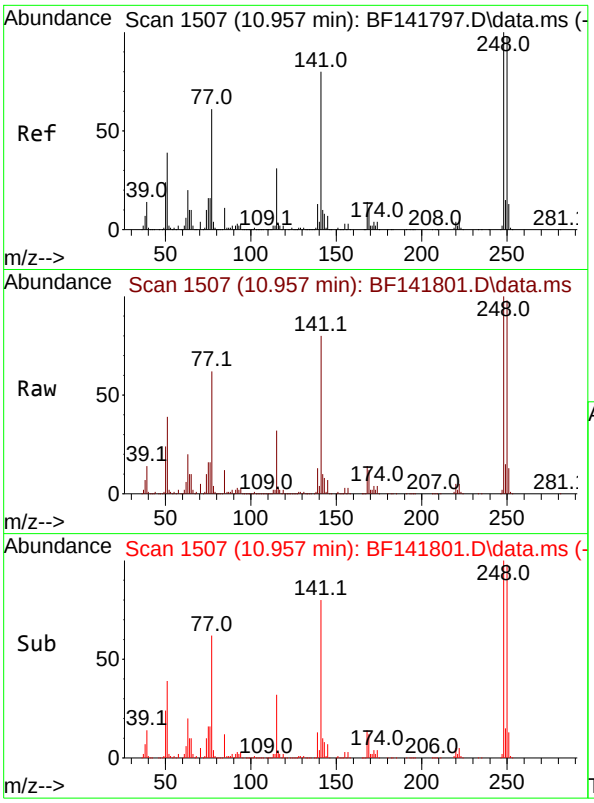


#66
n-Nitrosodiphenylamine
Concen: 40.431 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:169 Resp: 1608263

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.0	79.6
167	36.4	29.3	43.9



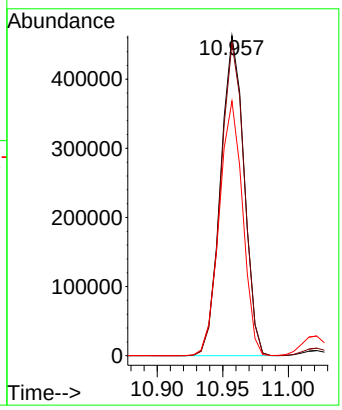


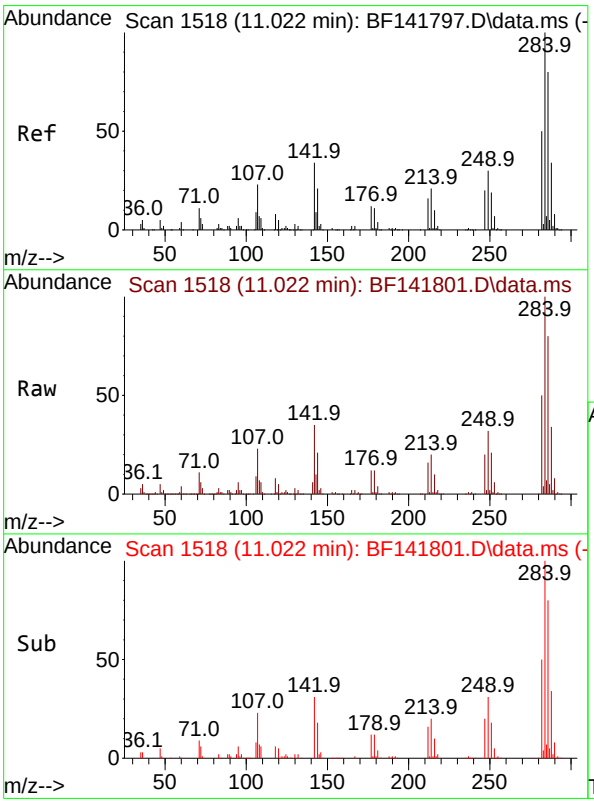
#67
4-Bromophenyl-phenylether
Concen: 40.614 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:248 Resp: 574667

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.1	117.1
141	79.5	64.3	96.5

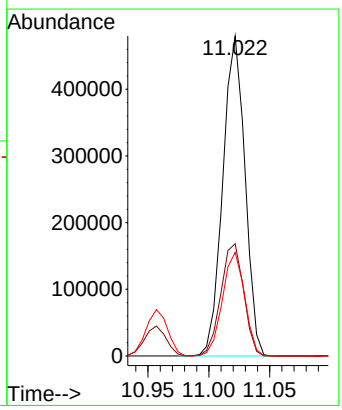


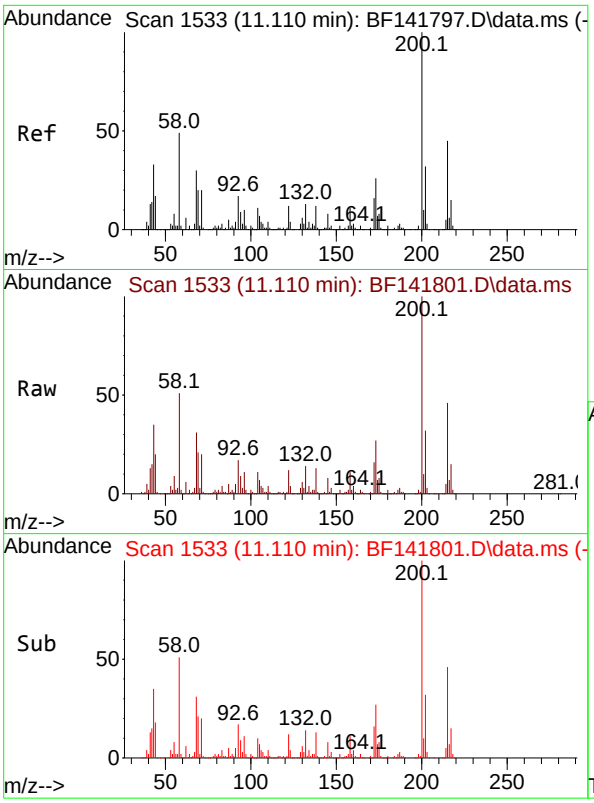


#68
Hexachlorobenzene
Concen: 40.697 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:284 Resp: 608067

Ion	Ratio	Lower	Upper
284	100		
142	35.0	28.2	42.2
249	32.4	25.5	38.3



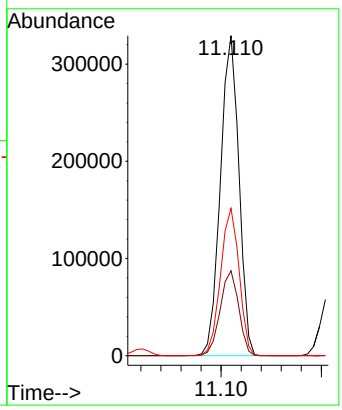


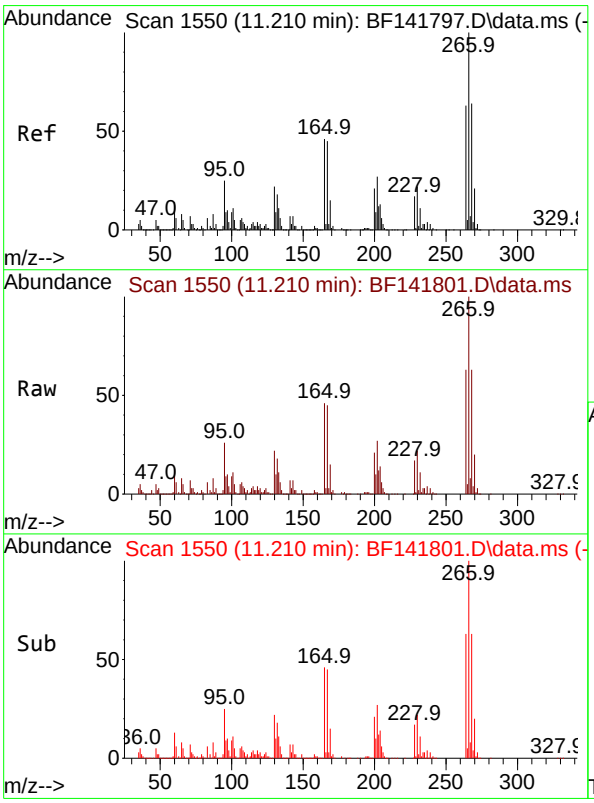
#69
Atrazine
Concen: 38.463 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:200 Resp: 420733

Ion	Ratio	Lower	Upper
200	100		
173	26.5	5.6	45.6
215	46.1	25.3	65.3

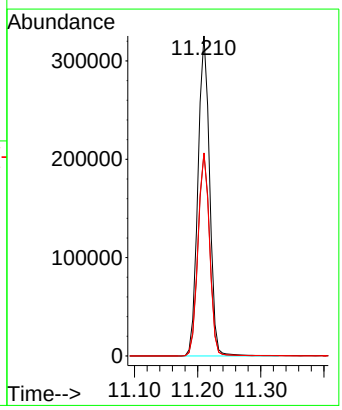


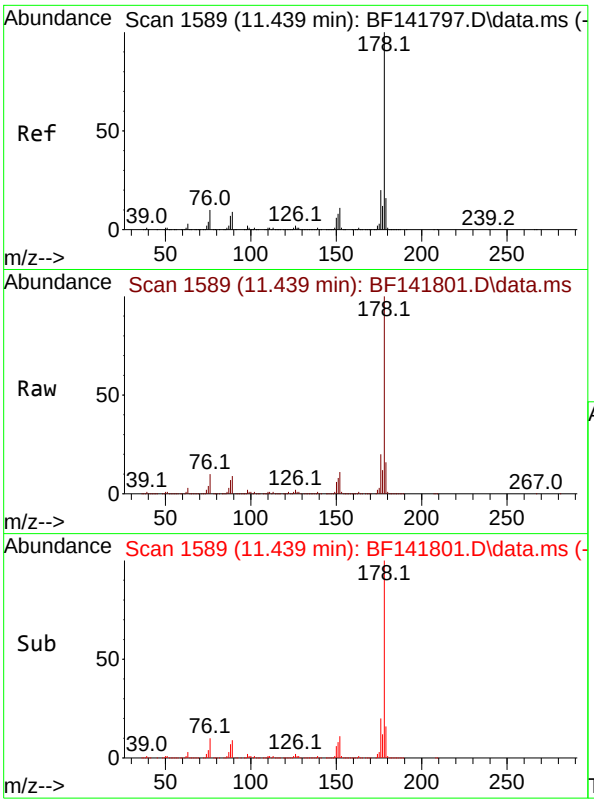


#70
Pentachlorophenol
Concen: 44.032 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:266 Resp: 417260

Ion	Ratio	Lower	Upper
266	100		
268	63.5	50.9	76.3
264	63.4	50.2	75.4



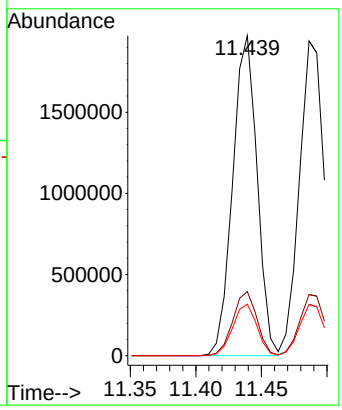


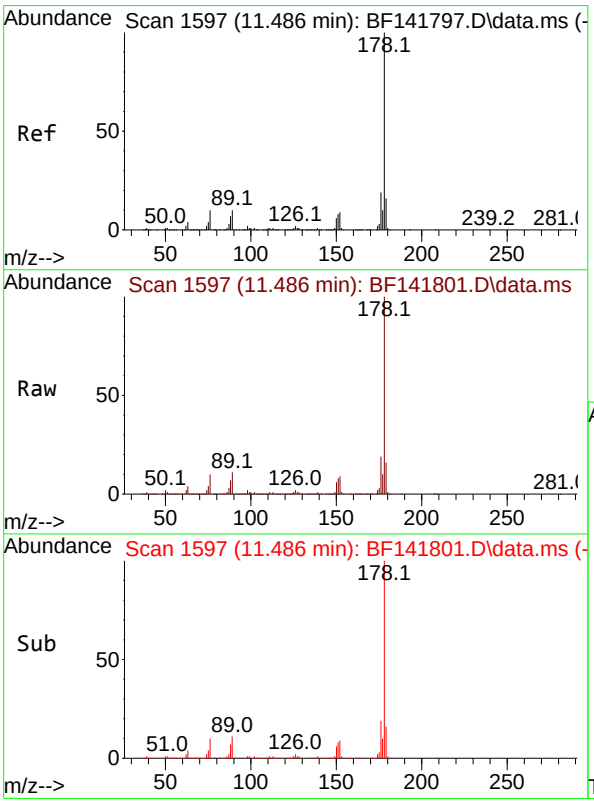
#71
Phenanthrene
Concen: 39.475 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:178 Resp: 2557877

Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	16.1	12.6	19.0

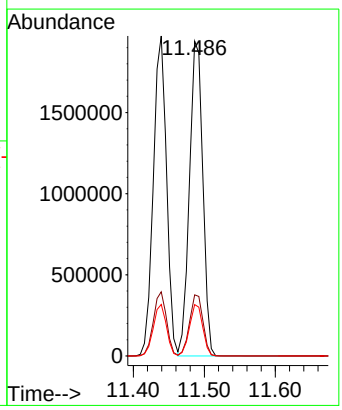


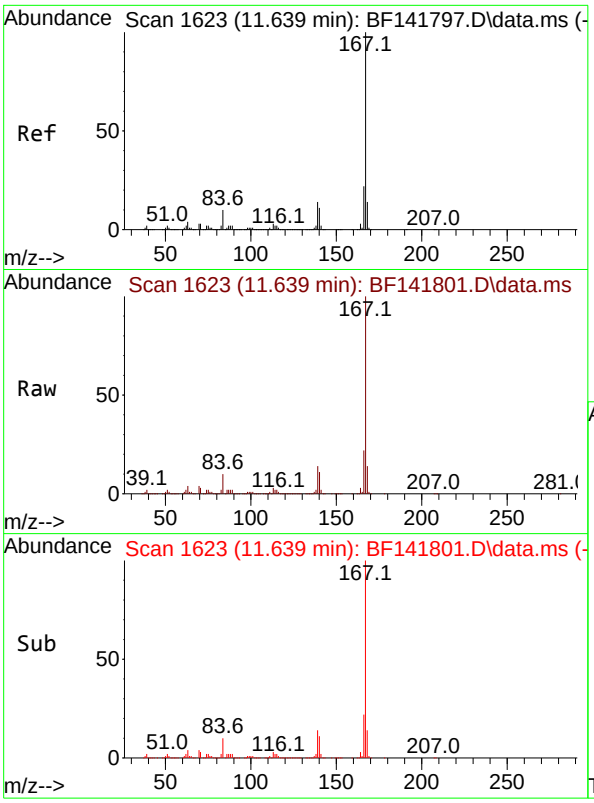


#72
Anthracene
Concen: 39.126 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:178 Resp: 2540876

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	16.3	12.8	19.2



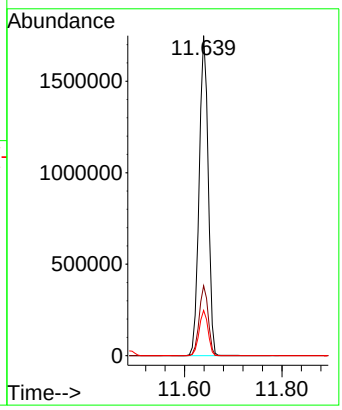


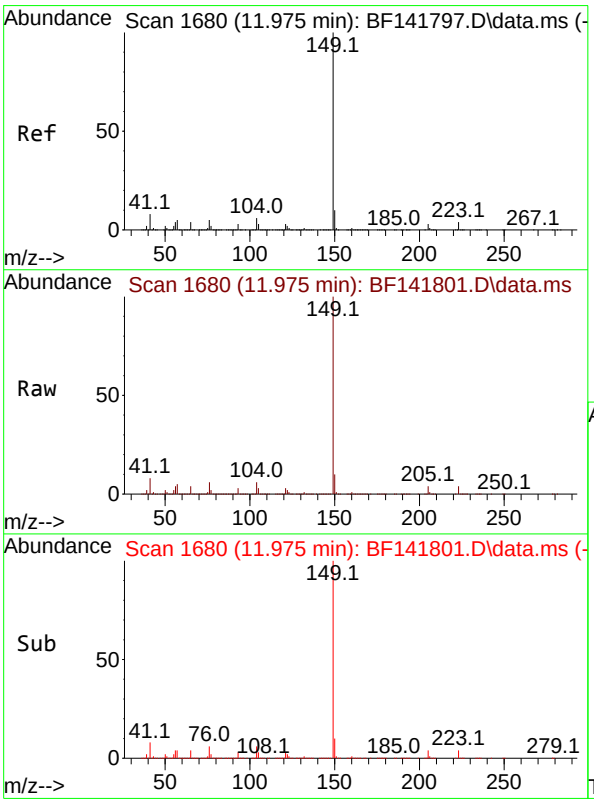
#73
Carbazole
Concen: 39.317 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:167 Resp: 2254761

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.2	11.3	16.9

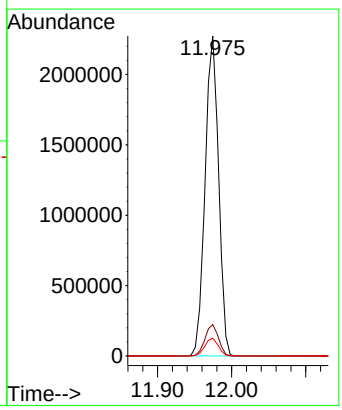


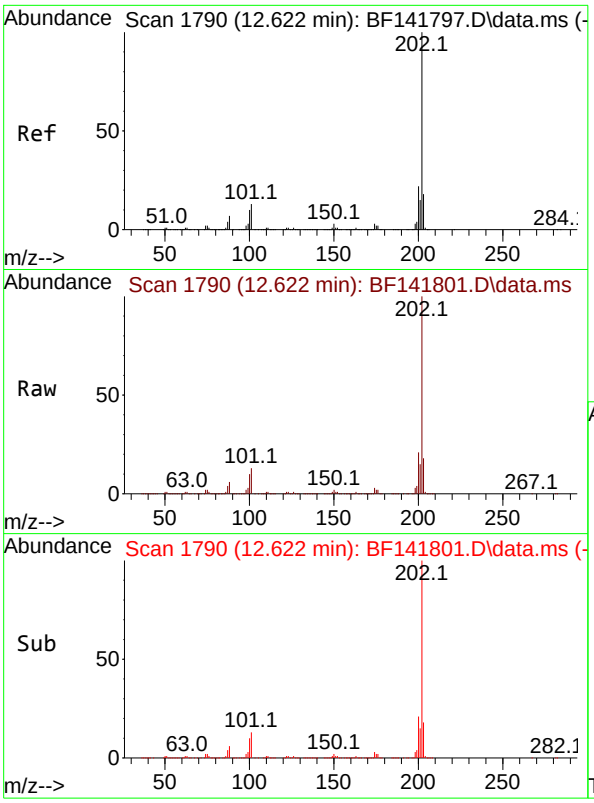


#74
Di-n-butylphthalate
Concen: 39.540 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 2874276

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.7	11.5
104	5.5	4.4	6.6



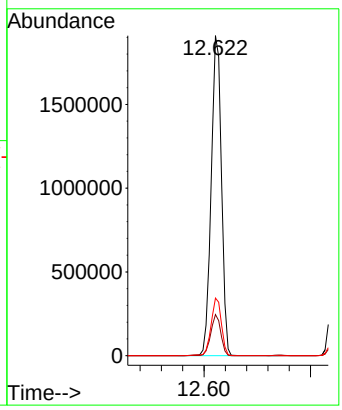


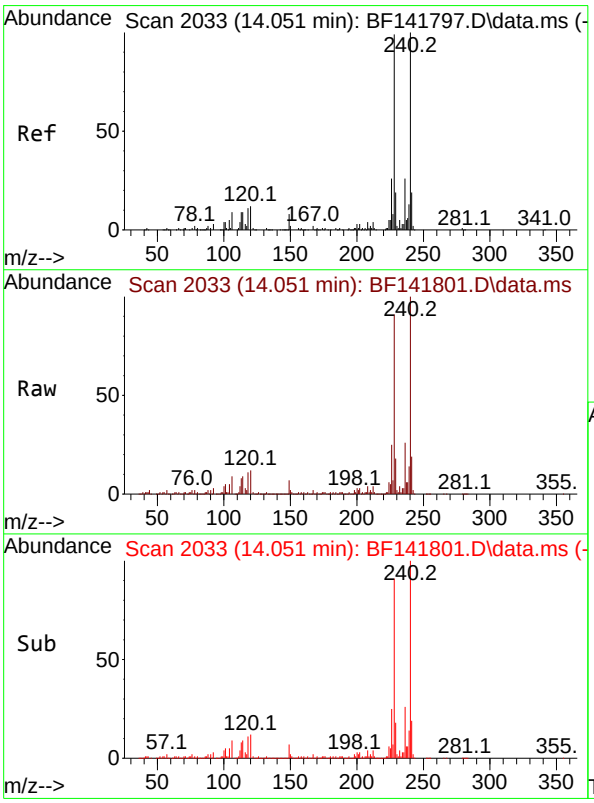
#75
Fluoranthene
Concen: 38.448 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:202 Resp: 2552790

Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	32.8
203	18.0	0.0	38.0

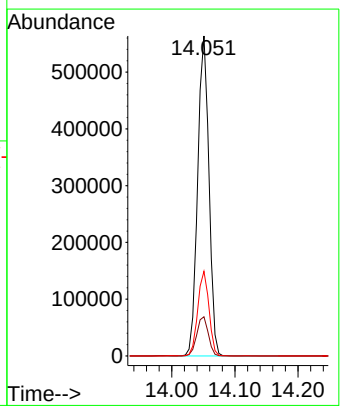


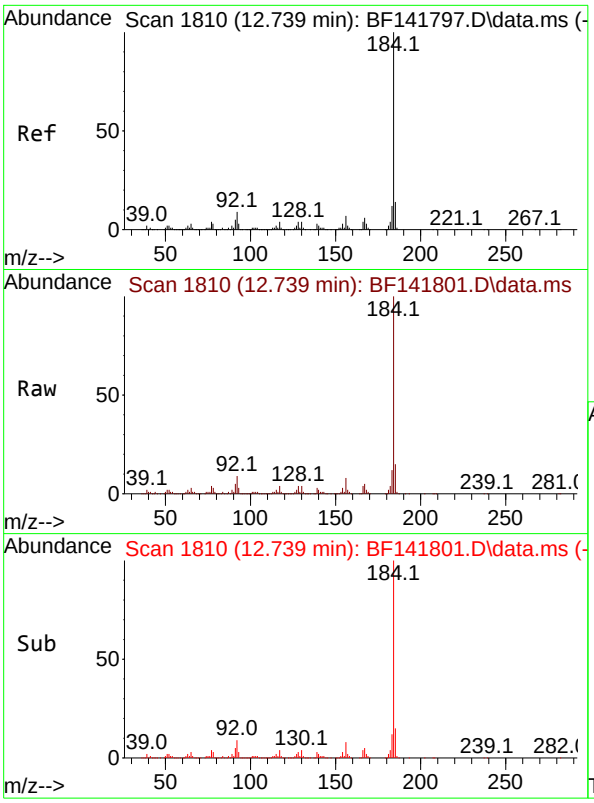


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:240 Resp: 696919

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.7	14.5
236	26.5	21.0	31.4



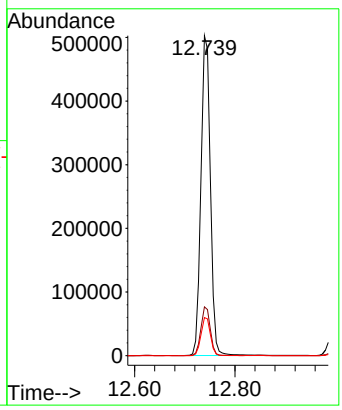


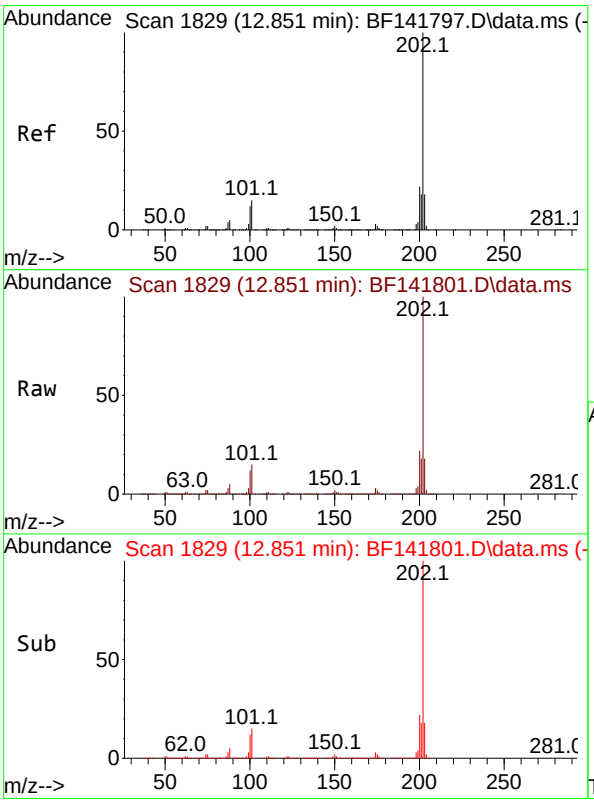
#77
Benzidine
Concen: 74.959 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:184 Resp: 657519

Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.6	17.4
183	11.9	9.4	14.0

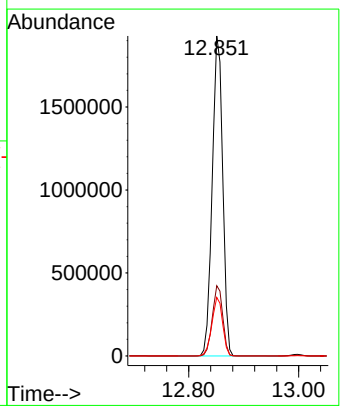


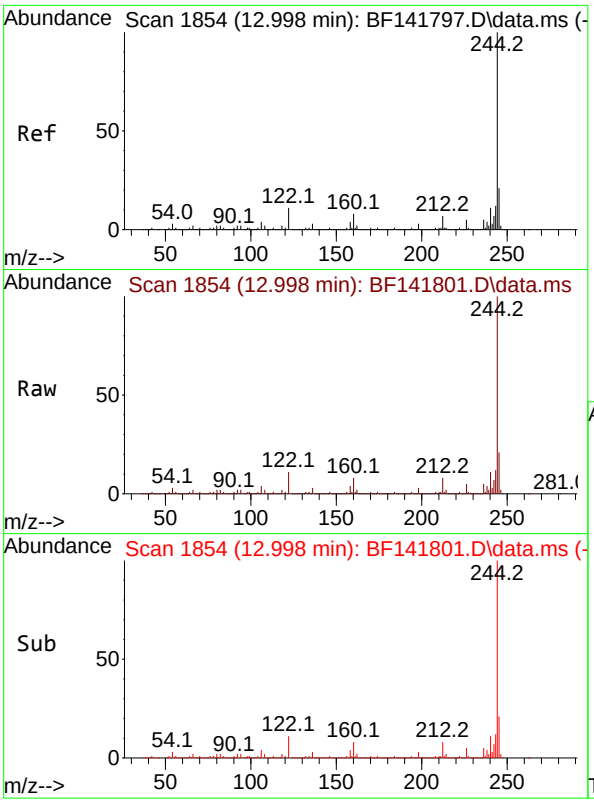


#78
Pyrene
Concen: 42.307 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:202 Resp: 2553211

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.4	26.0
203	18.3	14.6	22.0



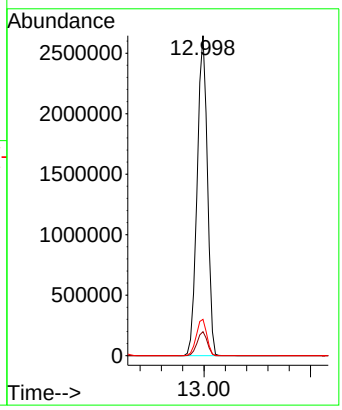


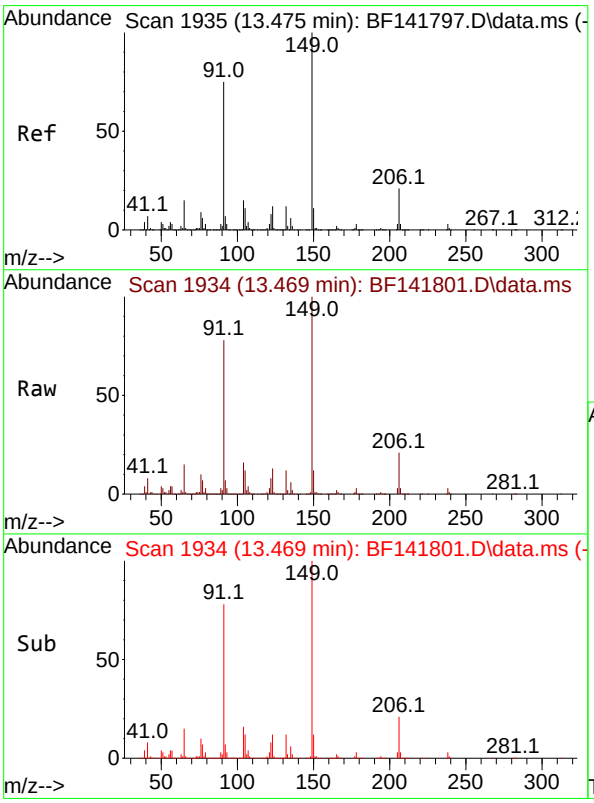
#79
Terphenyl-d14
Concen: 82.060 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:244 Resp: 3534753

Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	11.3	9.0	13.6

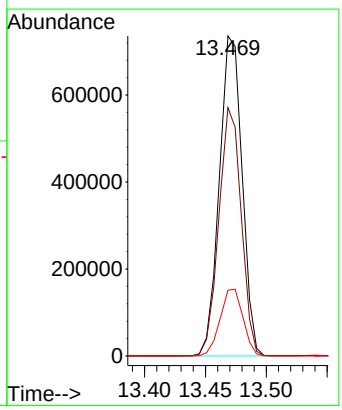


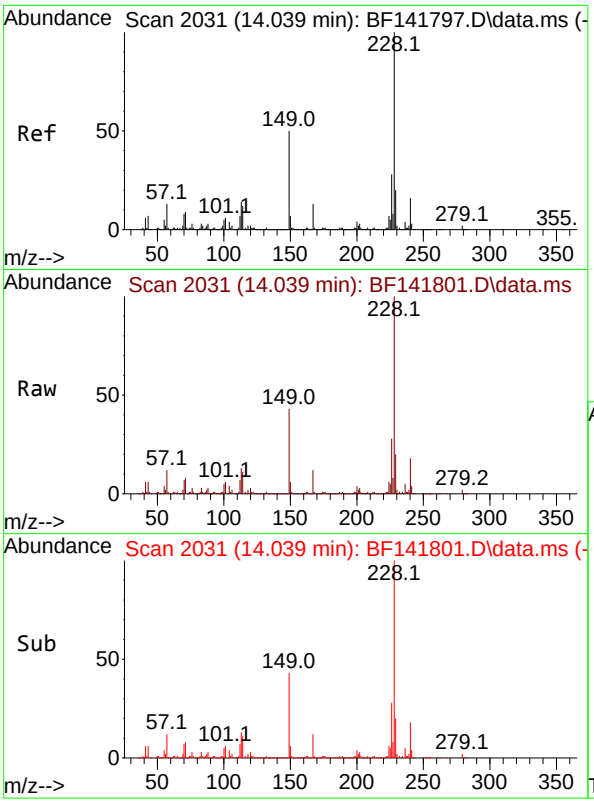


#80
Butylbenzylphthalate
Concen: 43.655 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 957186

Ion	Ratio	Lower	Upper
149	100		
91	77.6	60.1	90.1
206	20.5	16.8	25.2



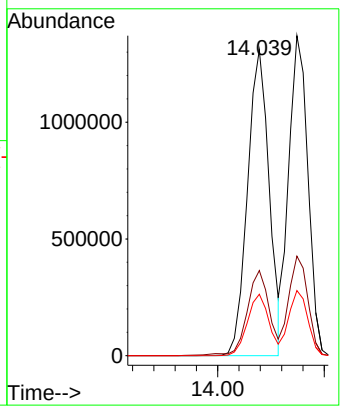


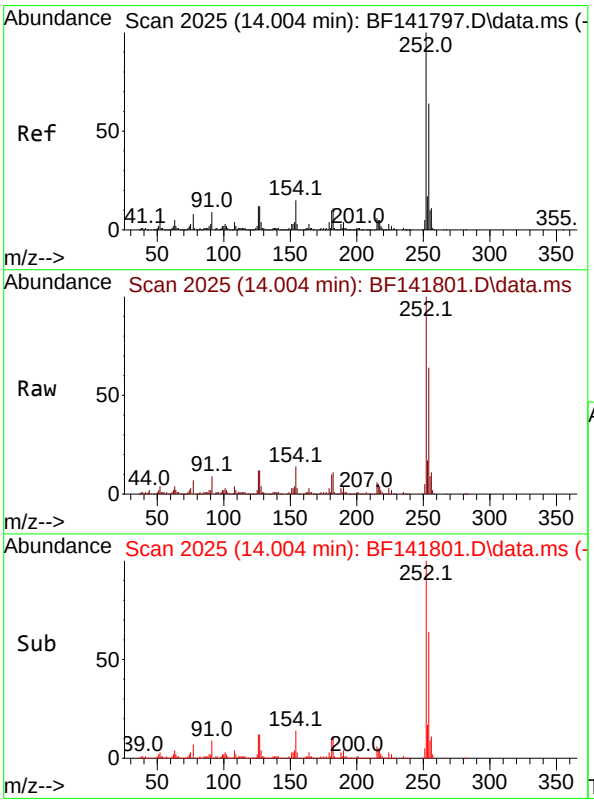
#81
Benzo(a)anthracene
Concen: 40.236 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:228 Resp: 1852195

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.1	33.1
229	20.1	16.1	24.1

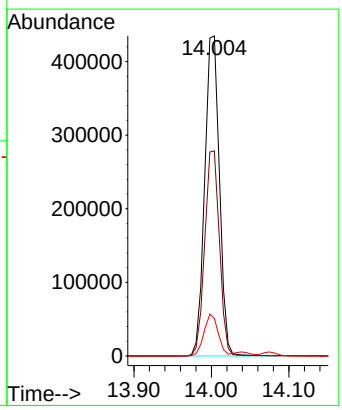


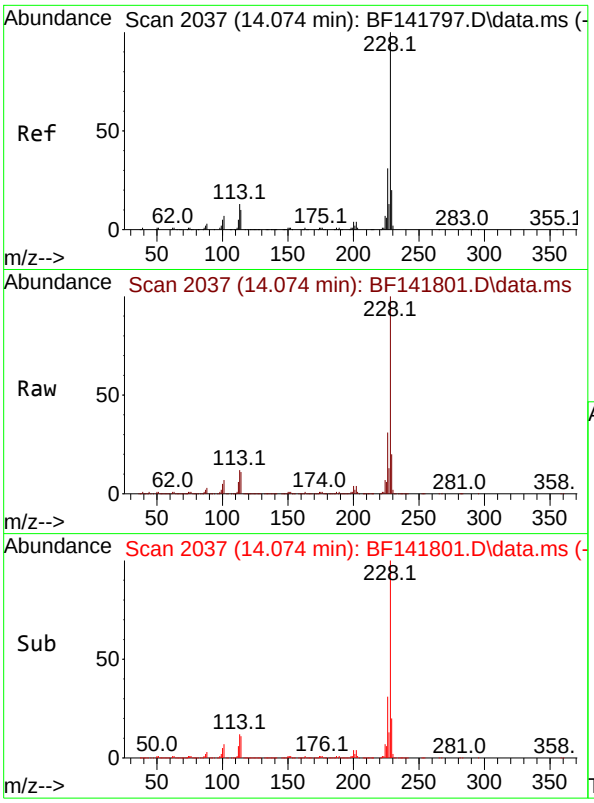


#82
3,3'-Dichlorobenzidine
Concen: 43.392 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 573075

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.4	77.0
126	11.8	9.8	14.6



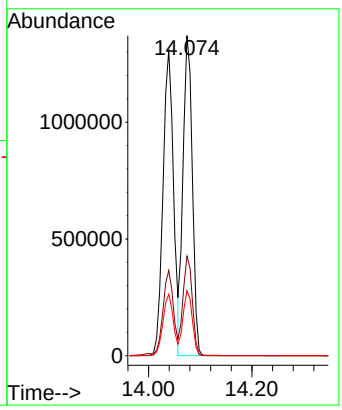


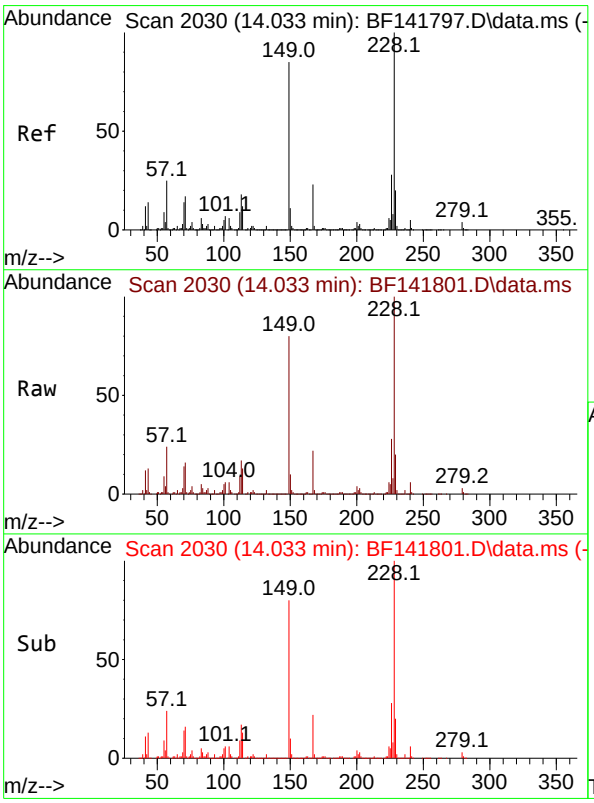
#83
Chrysene
Concen: 40.491 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:228 Resp: 1718188

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.6	37.0
229	20.4	16.1	24.1

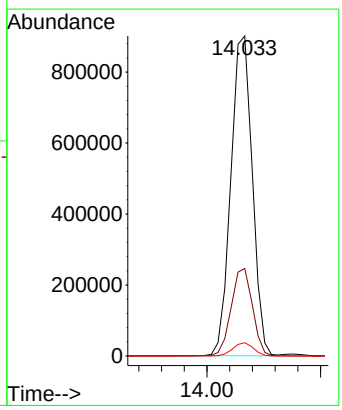


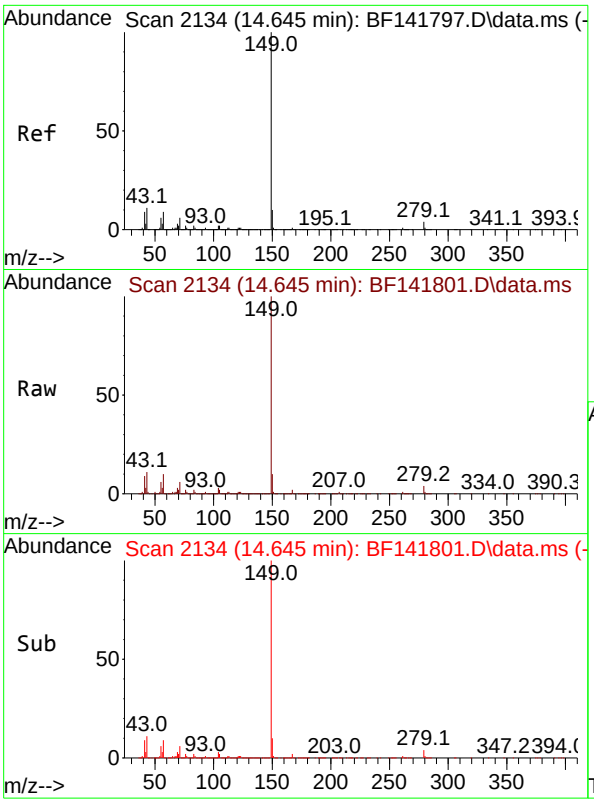


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.350 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:149 Resp: 1183508

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.2	31.8
279	4.2	3.3	4.9



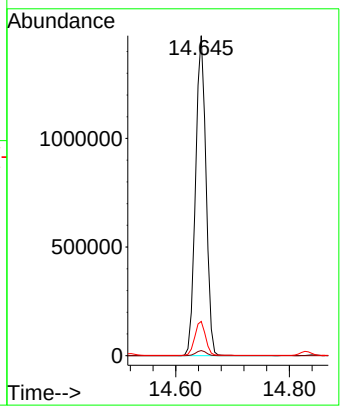


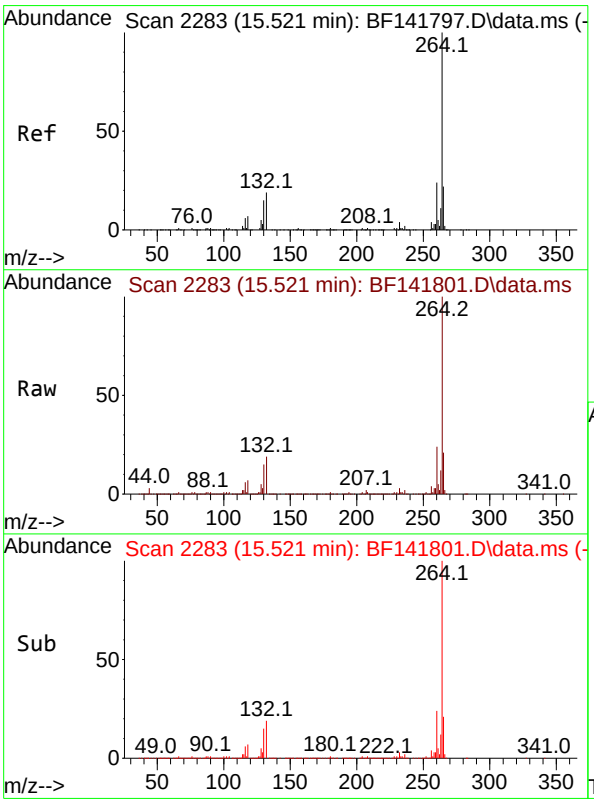
#85
Di-n-octyl phthalate
Concen: 46.033 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:149 Resp: 1881499

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.0	8.6	12.8

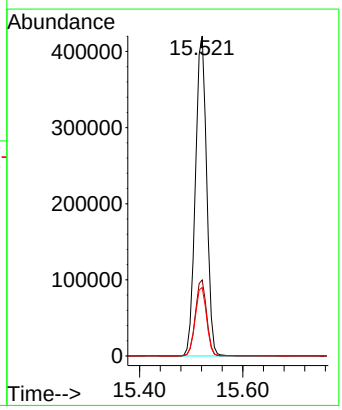


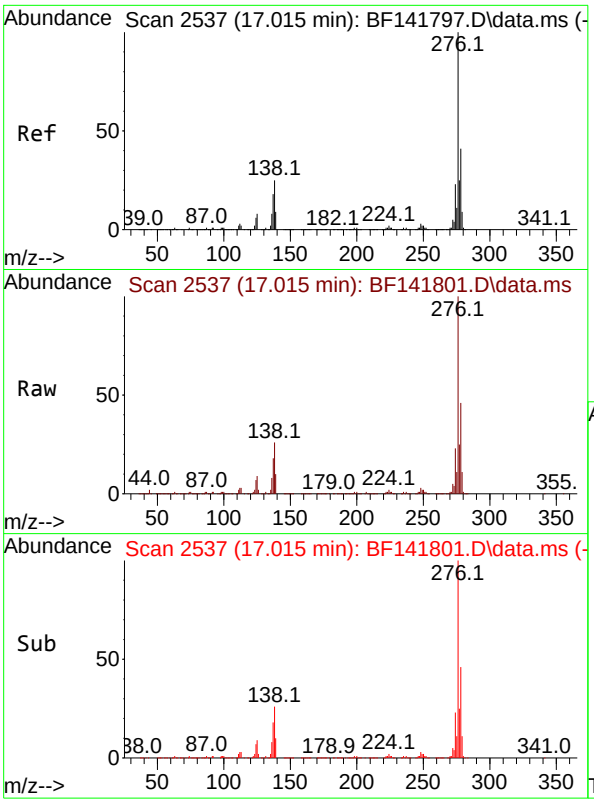


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:264 Resp: 634238

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.9	28.3
265	21.4	17.4	26.0



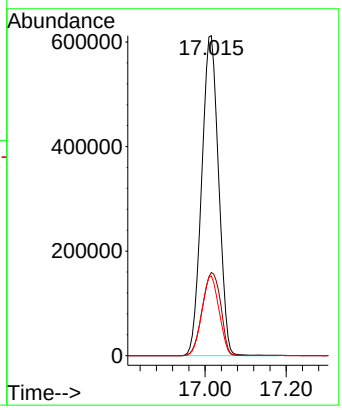


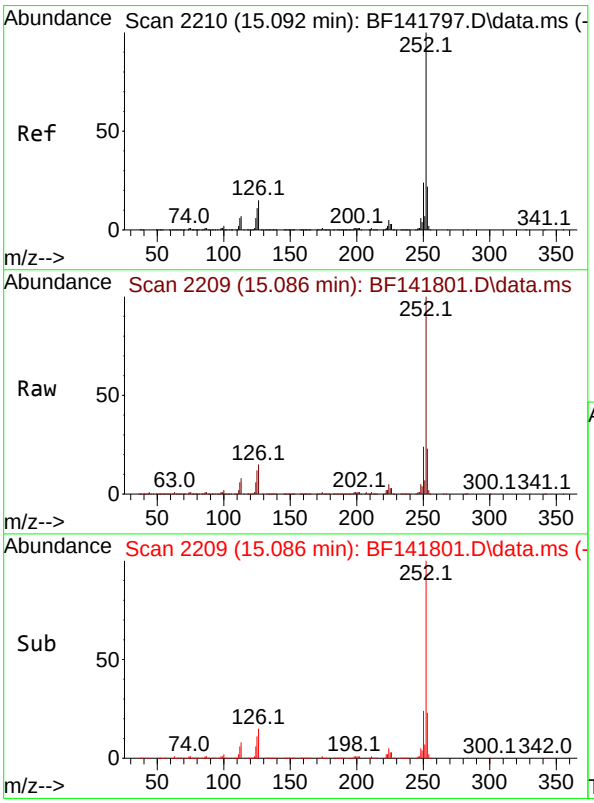
#87
Indeno(1,2,3-cd)pyrene
Concen: 43.754 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:276 Resp: 1767077

Ion	Ratio	Lower	Upper
276	100		
138	28.3	22.5	33.7
277	25.3	20.3	30.5

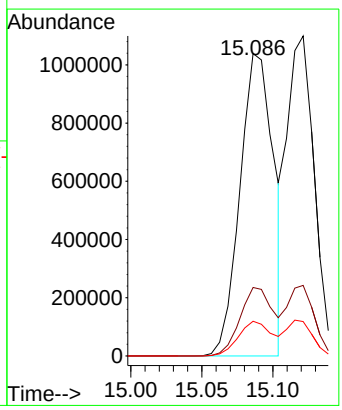


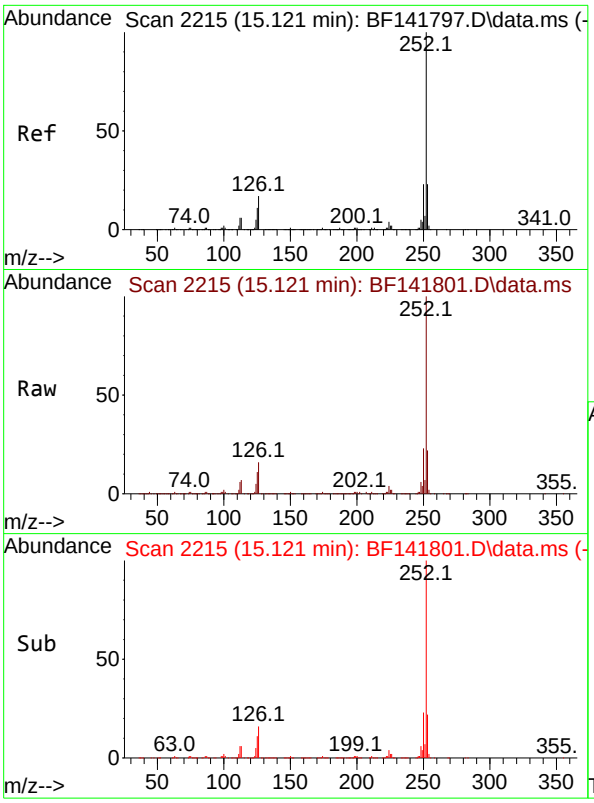


#88
Benzo(b)fluoranthene
Concen: 39.602 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 1710890

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	11.5	8.6	13.0



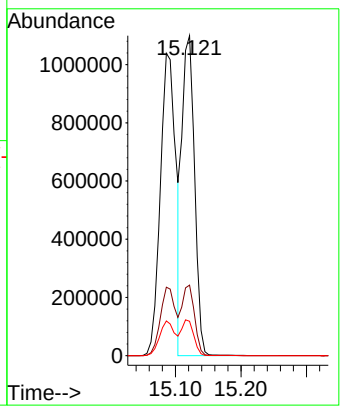


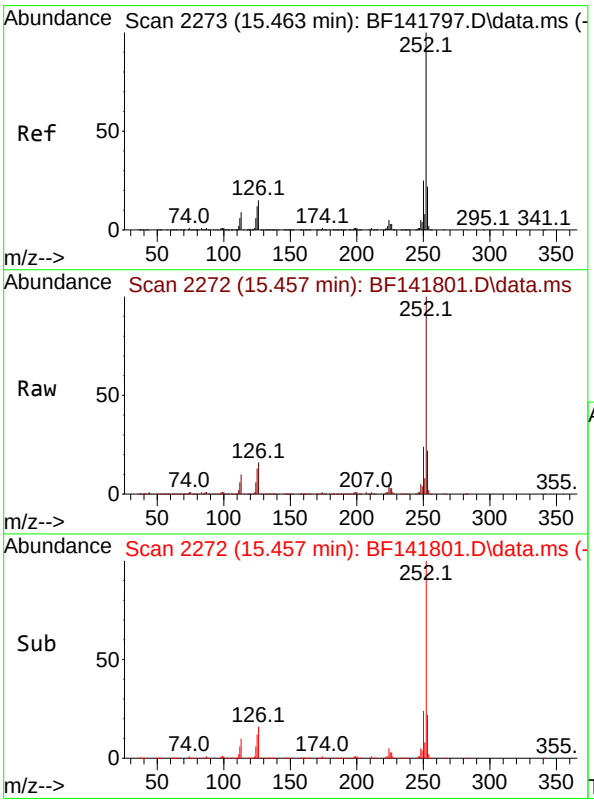
#89
Benzo(k)fluoranthene
Concen: 39.608 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:252 Resp: 1454422

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.8	8.8	13.2

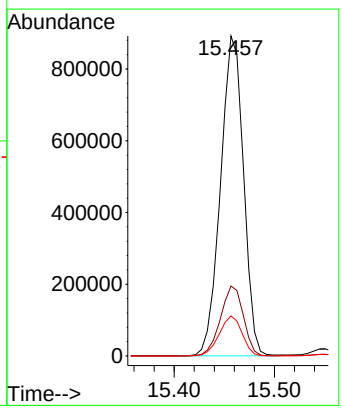


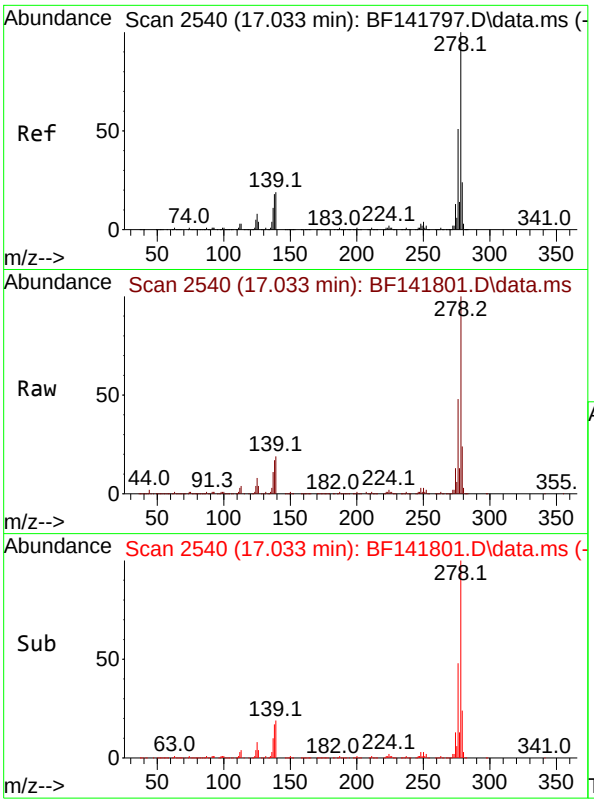


#90
Benzo(a)pyrene
Concen: 40.891 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:252 Resp: 1416788

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	12.5	9.4	14.2



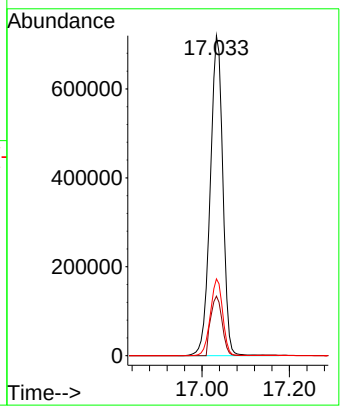


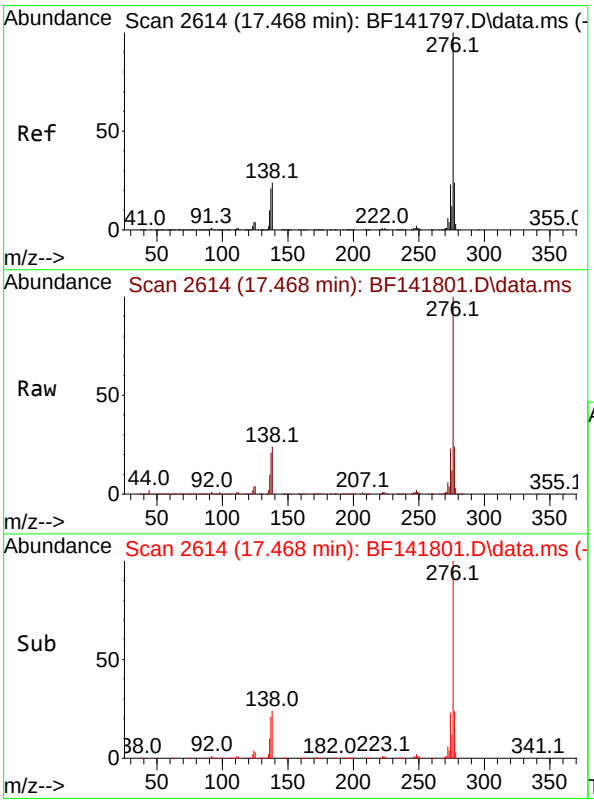
#91
Dibenzo(a,h)anthracene
Concen: 43.693 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:278 Resp: 1440368

Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.9	22.3
279	24.0	19.3	28.9

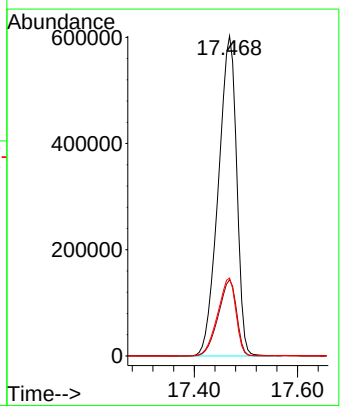




#92
Benzo(g,h,i)perylene
Concen: 43.969 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:276 Resp: 1484943

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.4	29.0
138	24.4	19.3	28.9



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	117	0.00
2		1,4-Dioxane	0.568	0.589	-3.7	116	0.00
3		Pyridine	1.414	1.505	-6.4	119	0.00
4		n-Nitrosodimethylamine	0.680	0.741	-9.0	119	0.00
5	S	2-Fluorophenol	1.252	1.291	-3.1	117	0.00
6		Aniline	1.695	1.816	-7.1	117	0.00
7	S	Phenol-d6	1.630	1.692	-3.8	117	0.00
8		2-Chlorophenol	1.355	1.423	-5.0	118	0.00
9		Benzaldehyde	0.948	1.035	-9.2	123	0.00
10	C	Phenol	1.742	1.812	-4.0	116	0.00
11		bis(2-Chloroethyl)ether	1.328	1.386	-4.4	121	0.00
12		1,3-Dichlorobenzene	1.451	1.505	-3.7	117	0.00
13	C	1,4-Dichlorobenzene	1.462	1.501	-2.7	116	0.00
14		1,2-Dichlorobenzene	1.365	1.394	-2.1	116	0.00
15		Benzyl Alcohol	1.303	1.386	-6.4	118	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	2.151	-6.7	121	0.00
17		2-Methylphenol	1.118	1.184	-5.9	119	0.00
18		Hexachloroethane	0.547	0.580	-6.0	117	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	1.112	-3.7	119	0.00
20		3+4-Methylphenols	1.392	1.457	-4.7	118	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00
22		Acetophenone	0.487	0.492	-1.0	117	0.00
23	S	Nitrobenzene-d5	0.313	0.370	-18.2	128	0.00
24		Nitrobenzene	0.335	0.383	-14.3	125	0.00
25		Isophorone	0.672	0.688	-2.4	119	0.00
26	C	2-Nitrophenol	0.127	0.169	-33.1#	139	0.00
27		2,4-Dimethylphenol	0.247	0.259	-4.9	120	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.433	-0.9	118	0.00
29	C	2,4-Dichlorophenol	0.285	0.300	-5.3	119	0.00
30		1,2,4-Trichlorobenzene	0.312	0.318	-1.9	118	0.00
31		Naphthalene	1.028	1.024	0.4	116	0.00
32		Benzoic acid	0.179	0.232	-29.6#	144	0.00
33		4-Chloroaniline	0.377	0.378	-0.3	118	0.00
34	C	Hexachlorobutadiene	0.194	0.199	-2.6	119	0.00
35		Caprolactam	0.088	0.094	-6.8	121	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.331	-4.4	120	0.00
37		2-Methylnaphthalene	0.674	0.669	0.7	117	0.00
38		1-Methylnaphthalene	0.647	0.641	0.9	116	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	121	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.579	-0.2	118	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.235	2.5	110	0.00
42	S	2,4,6-Tribromophenol	0.188	0.198	-5.3	120	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.393	-5.4	119	0.00
44		2,4,5-Trichlorophenol	0.369	0.386	-4.6	122	0.00
45	S	2-Fluorobiphenyl	1.247	1.184	5.1	115	0.00
46		1,1'-Biphenyl	1.522	1.479	2.8	117	0.00
47		2-Chloronaphthalene	1.124	1.104	1.8	117	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	0.260	0.341	-31.2#	137	0.00
49		Acenaphthylene	1.685	1.681	0.2	118	0.00
50		Dimethylphthalate	1.339	1.348	-0.7	119	0.00
51		2,6-Dinitrotoluene	0.226	0.282	-24.8	132	0.00
52	C	Acenaphthene	1.137	1.151	-1.2	121	0.00
53		3-Nitroaniline	0.241	0.298	-23.7	130	0.00
54	P	2,4-Dinitrophenol	0.089	0.117	-31.5#	152#	0.00
55		Dibenzofuran	1.654	1.629	1.5	118	0.00
56	P	4-Nitrophenol	0.198	0.246	-24.2	130	0.00
57		2,4-Dinitrotoluene	0.269	0.356	-32.3#	137	0.00
58		Fluorene	1.239	1.194	3.6	117	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.342	-6.5	122	0.00
60		Diethylphthalate	1.343	1.339	0.3	117	0.00
61		4-Chlorophenyl-phenylether	0.621	0.598	3.7	116	0.00
62		4-Nitroaniline	0.229	0.279	-21.8	126	0.00
63		Azobenzene	1.414	1.420	-0.4	119	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.106	-30.9#	143	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.664	-1.1	117	0.00
67		4-Bromophenyl-phenylether	0.234	0.237	-1.3	117	0.00
68		Hexachlorobenzene	0.247	0.251	-1.6	117	0.00
69		Atrazine	0.181	0.174	3.9	114	0.00
70	C	Pentachlorophenol	0.156	0.172	-10.3	120	0.00
71		Phenanthrene	1.070	1.056	1.3	115	0.00
72		Anthracene	1.072	1.049	2.1	115	0.00
73		Carbazole	0.947	0.931	1.7	114	0.00
74		Di-n-butylphthalate	1.200	1.186	1.2	115	0.00
75	C	Fluoranthene	1.096	1.054	3.8	114	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
77		Benzidine	0.252	0.472	-87.3#	201#	0.00
78		Pyrene	1.732	1.832	-5.8	113	0.00
79	S	Terphenyl-d14	1.236	1.268	-2.6	111	0.00
80		Butylbenzylphthalate	0.629	0.687	-9.2	114	0.00
81		Benzo(a)anthracene	1.321	1.329	-0.6	112	0.00
82		3,3'-Dichlorobenzidine	0.379	0.411	-8.4	116	0.00
83		Chrysene	1.218	1.233	-1.2	108	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.849	-8.4	113	0.00
85	c	Di-n-octyl phthalate	1.173	1.350	-15.1	114	0.00
86	I	Perylene-d12	1.000	1.000	0.0	112	0.00
87		Indeno(1,2,3-cd)pyrene	1.274	1.393	-9.3	116	0.00
88		Benzo(b)fluoranthene	1.362	1.349	1.0	115	0.00
89		Benzo(k)fluoranthene	1.158	1.147	0.9	106	0.00
90	C	Benzo(a)pyrene	1.093	1.117	-2.2	112	0.00
91		Dibenzo(a,h)anthracene	1.040	1.136	-9.2	115	0.00
92		Benzo(g,h,i)perylene	1.065	1.171	-10.0	116	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 = 1

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	117	0.00
2		1,4-Dioxane	40.000	41.486	-3.7	116	0.00
3		Pyridine	40.000	42.572	-6.4	119	0.00
4		n-Nitrosodimethylamine	40.000	43.575	-8.9	119	0.00
5	S	2-Fluorophenol	80.000	82.443	-3.1	117	0.00
6		Aniline	40.000	42.857	-7.1	117	0.00
7	S	Phenol-d6	80.000	83.039	-3.8	117	0.00
8		2-Chlorophenol	40.000	42.011	-5.0	118	0.00
9		Benzaldehyde	40.000	43.684	-9.2	123	0.00
10	C	Phenol	40.000	41.614	-4.0	116	0.00
11		bis(2-Chloroethyl)ether	40.000	41.763	-4.4	121	0.00
12		1,3-Dichlorobenzene	40.000	41.498	-3.7	117	0.00
13	C	1,4-Dichlorobenzene	40.000	41.066	-2.7	116	0.00
14		1,2-Dichlorobenzene	40.000	40.857	-2.1	116	0.00
15		Benzyl Alcohol	40.000	42.564	-6.4	118	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	42.679	-6.7	121	0.00
17		2-Methylphenol	40.000	42.365	-5.9	119	0.00
18		Hexachloroethane	40.000	42.366	-5.9	117	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.525	-3.8	119	0.00
20		3+4-Methylphenols	40.000	41.840	-4.6	118	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	118	0.00
22		Acetophenone	40.000	40.417	-1.0	117	0.00
23	S	Nitrobenzene-d5	80.000	94.707	-18.4	128	0.00
24		Nitrobenzene	40.000	45.751	-14.4	125	0.00
25		Isophorone	40.000	40.944	-2.4	119	0.00
26	C	2-Nitrophenol	40.000	45.447	-13.6	139	0.00
27		2,4-Dimethylphenol	40.000	41.931	-4.8	120	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.357	-0.9	118	0.00
29	C	2,4-Dichlorophenol	40.000	42.157	-5.4	119	0.00
30		1,2,4-Trichlorobenzene	40.000	40.757	-1.9	118	0.00
31		Naphthalene	40.000	39.854	0.4	116	0.00
32		Benzoic acid	40.000	45.545	-13.9	144	0.00
33		4-Chloroaniline	40.000	40.096	-0.2	118	0.00
34	C	Hexachlorobutadiene	40.000	41.042	-2.6	119	0.00
35		Caprolactam	40.000	42.737	-6.8	121	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.844	-4.6	120	0.00
37		2-Methylnaphthalene	40.000	39.710	0.7	117	0.00
38		1-Methylnaphthalene	40.000	39.635	0.9	116	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	121	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.086	-0.2	118	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.975	2.6	110	0.00
42	S	2,4,6-Tribromophenol	80.000	84.321	-5.4	120	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.156	-5.4	119	0.00
44		2,4,5-Trichlorophenol	40.000	41.806	-4.5	122	0.00
45	S	2-Fluorobiphenyl	80.000	75.957	5.1	115	0.00
46		1,1'-Biphenyl	40.000	38.864	2.8	117	0.00
47		2-Chloronaphthalene	40.000	39.288	1.8	117	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	44.684	-11.7	137	0.00
49		Acenaphthylene	40.000	39.907	0.2	118	0.00
50		Dimethylphthalate	40.000	40.250	-0.6	119	0.00
51		2,6-Dinitrotoluene	40.000	44.292	-10.7	132	0.00
52	C	Acenaphthene	40.000	40.488	-1.2	121	0.00
53		3-Nitroaniline	40.000	43.938	-9.8	130	0.00
54	P	2,4-Dinitrophenol	40.000	47.494	-18.7	152	0.00
55		Dibenzofuran	40.000	39.391	1.5	118	0.00
56	P	4-Nitrophenol	40.000	49.725	-24.3	130	0.00
57		2,4-Dinitrotoluene	40.000	45.704	-14.3	137	0.00
58		Fluorene	40.000	38.547	3.6	117	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.607	-6.5	122	0.00
60		Diethylphthalate	40.000	39.896	0.3	117	0.00
61		4-Chlorophenyl-phenylether	40.000	38.546	3.6	116	0.00
62		4-Nitroaniline	40.000	48.866	-22.2	126	0.00
63		Azobenzene	40.000	40.188	-0.5	119	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	117	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.441	-13.6	143	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.431	-1.1	117	0.00
67		4-Bromophenyl-phenylether	40.000	40.614	-1.5	117	0.00
68		Hexachlorobenzene	40.000	40.697	-1.7	117	0.00
69		Atrazine	40.000	38.463	3.8	114	0.00
70	C	Pentachlorophenol	40.000	44.032	-10.1	120	0.00
71		Phenanthrene	40.000	39.475	1.3	115	0.00
72		Anthracene	40.000	39.126	2.2	115	0.00
73		Carbazole	40.000	39.317	1.7	114	0.00
74		Di-n-butylphthalate	40.000	39.540	1.2	115	0.00
75	C	Fluoranthene	40.000	38.448	3.9	114	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	111	0.00
77		Benzidine	40.000	74.959	-87.4#	201	0.00
78		Pyrene	40.000	42.307	-5.8	113	0.00
79	S	Terphenyl-d14	80.000	82.060	-2.6	111	0.00
80		Butylbenzylphthalate	40.000	43.655	-9.1	114	0.00
81		Benzo(a)anthracene	40.000	40.236	-0.6	112	0.00
82		3,3'-Dichlorobenzidine	40.000	43.392	-8.5	116	0.00
83		Chrysene	40.000	40.491	-1.2	108	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	43.350	-8.4	113	0.00
85	c	Di-n-octyl phthalate	40.000	46.033	-15.1	114	0.00
86	I	Perylene-d12	20.000	20.000	0.0	112	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	43.754	-9.4	116	0.00
88		Benzo(b)fluoranthene	40.000	39.602	1.0	115	0.00
89		Benzo(k)fluoranthene	40.000	39.608	1.0	106	0.00
90	C	Benzo(a)pyrene	40.000	40.891	-2.2	112	0.00
91		Dibenzo(a,h)anthracene	40.000	43.693	-9.2	115	0.00
92		Benzo(g,h,i)perylene	40.000	43.969	-9.9	116	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141801.D
Acq On : 27 Feb 2025 19:45
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Quant Time: Feb 28 01:51:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.834		-12.0	
Phenol-d6	1.630	1.613		-1.0	
Phenol	1.742	1.734		-0.5	20.0
bis(2-Chloroethyl)ether	1.328	1.232		-7.2	
2-Chlorophenol	1.355	1.354		-0.1	
2-Methylphenol	1.118	1.094		-2.1	
2,2-oxybis(1-Chloropropane)	2.016	1.771		-12.2	
Acetophenone	0.487	0.480		-1.4	
3+4-Methylphenols	1.392	1.384		-0.6	
n-Nitroso-di-n-propylamine	1.072	0.955	0.050	-10.9	
Nitrobenzene-d5	0.313	0.371		18.5	
Hexachloroethane	0.547	0.522		-4.6	
Nitrobenzene	0.335	0.375		11.9	
Isophorone	0.672	0.633		-5.8	
2-Nitrophenol	0.127	0.179		40.9	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.395		-7.9	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.378		0.3	
Hexachlorobutadiene	0.194	0.187		-3.6	20.0
Caprolactam	0.088	0.098		11.4	
4-Chloro-3-methylphenol	0.317	0.324		2.2	20.0
2-Methylnaphthalene	0.674	0.657		-2.5	
Hexachlorocyclopentadiene	0.241	0.235	0.050	-2.5	
2,4,6-Trichlorophenol	0.373	0.395		5.9	20.0
2-Fluorobiphenyl	1.247	1.230		-1.4	
2,4,5-Trichlorophenol	0.369	0.412		11.7	
1,1-Biphenyl	1.522	1.505		-1.1	
2-Chloronaphthalene	1.124	1.144		1.8	
2-Nitroaniline	0.260	0.374		43.8	
Dimethylphthalate	1.339	1.326		-1.0	
Acenaphthylene	1.685	1.726		2.4	
2,6-Dinitrotoluene	0.226	0.297		31.4	
3-Nitroaniline	0.241	0.328		36.1	
Acenaphthene	1.137	1.188		4.5	20.0
2,4-Dinitrophenol	0.089	0.149	0.050	67.4	
4-Nitrophenol	0.198	0.283	0.050	42.9	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/05/2025 10:09

Lab File ID: BF141835.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.670		1.0	
2,4-Dinitrotoluene	0.269	0.392		45.7	
Diethylphthalate	1.343	1.320		-1.7	
4-Chlorophenyl-phenylether	0.621	0.606		-2.4	
Fluorene	1.239	1.253		1.1	
4-Nitroaniline	0.229	0.330		44.1	
4,6-Dinitro-2-methylphenol	0.081	0.122		50.6	
n-Nitrosodiphenylamine	0.657	0.638		-2.9	20.0
2,4,6-Tribromophenol	0.188	0.210		11.7	
4-Bromophenyl-phenylether	0.234	0.223		-4.7	
Hexachlorobenzene	0.247	0.245		-0.8	
Atrazine	0.181	0.156		-13.8	
Pentachlorophenol	0.156	0.176		12.8	20.0
Phenanthrene	1.070	1.082		1.1	
Anthracene	1.072	1.088		1.5	
Carbazole	0.947	0.990		4.5	
Di-n-butylphthalate	1.200	1.131		-5.8	
Fluoranthene	1.096	1.157		5.6	20.0
Pyrene	1.732	1.722		-0.6	
Terphenyl-d14	1.236	1.190		-3.7	
Butylbenzylphthalate	0.629	0.646		2.7	
3,3-Dichlorobenzidine	0.379	0.382		0.8	
Benzo(a)anthracene	1.321	1.308		-1.0	
Chrysene	1.218	1.190		-2.3	
Bis(2-ethylhexyl)phthalate	0.783	0.807		3.1	
Di-n-octyl phthalate	1.173	1.132		-3.5	20.0
Benzo(b)fluoranthene	1.362	1.368		0.4	
Benzo(k)fluoranthene	1.158	1.057		-8.7	
Benzo(a)pyrene	1.093	1.074		-1.7	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.310		2.8	
Dibenzo(a,h)anthracene	1.040	1.067		2.6	
Benzo(g,h,i)perylene	1.065	1.105		3.8	
1,2,4,5-Tetrachlorobenzene	0.578	0.577		-0.2	
1,4-Dioxane	0.568	0.571		0.5	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.351		9.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	246608	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	945299	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	507589	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	873644	20.000	ng	0.00
76) Chrysene-d12	14.045	240	595765	20.000	ng	0.00
86) Perylene-d12	15.510	264	513355	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1246062	80.693	ng	0.00
7) Phenol-d6	6.510	99	1590960	79.155	ng	0.00
23) Nitrobenzene-d5	7.445	82	1402310	94.823	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	425699	89.332	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2496418	78.861	ng	0.00
79) Terphenyl-d14	12.992	244	2834884	76.987	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.681	88	281849	40.225	ng	99
3) Pyridine	3.452	79	705001	40.439	ng	98
4) n-Nitrosodimethylamine	3.393	42	341742	40.740	ng	97
6) Aniline	6.551	93	828160	39.633	ng	99
8) 2-Chlorophenol	6.669	128	667898	39.983	ng	99
9) Benzaldehyde	6.440	77	411185	35.170	ng	98
10) Phenol	6.522	94	855332	39.824	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	607625	37.114	ng	99
12) 1,3-Dichlorobenzene	6.828	146	705872	39.458	ng	99
13) 1,4-Dichlorobenzene	6.904	146	715372	39.687	ng	99
14) 1,2-Dichlorobenzene	7.057	146	664849	39.499	ng	100
15) Benzyl Alcohol	7.022	79	627467	39.062	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	873469	35.131	ng	99
17) 2-Methylphenol	7.128	107	539412	39.120	ng	99
18) Hexachloroethane	7.398	117	257495	38.167	ng	99
19) n-Nitroso-di-n-propyla...	7.298	70	470848	35.637	ng	100
20) 3+4-Methylphenols	7.281	107	682535	39.753	ng	95
22) Acetophenone	7.292	105	907232	39.406	ng	98
24) Nitrobenzene	7.469	77	708702	44.751	ng	99
25) Isophorone	7.704	82	1195819	37.638	ng	99
26) 2-Nitrophenol	7.781	139	337701	47.760	ng	99
27) 2,4-Dimethylphenol	7.810	122	469729	40.220	ng	100
28) bis(2-Chloroethoxy)met...	7.916	93	747705	36.892	ng	99
29) 2,4-Dichlorophenol	8.016	162	550338	40.846	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	590525	39.998	ng	99
31) Naphthalene	8.192	128	1922662	39.574	ng	99
32) Benzoic acid	7.922	122	468479	48.051	ng	99
33) 4-Chloroaniline	8.234	127	714189	40.091	ng	100
34) Hexachlorobutadiene	8.304	225	354160	38.603	ng	99
35) Caprolactam	8.604	113	185176	44.676	ng	93
36) 4-Chloro-3-methylphenol	8.710	107	612816	40.944	ng	97
37) 2-Methylnaphthalene	8.881	142	1241689	38.964	ng	100
38) 1-Methylnaphthalene	8.981	142	1218817	39.860	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	585654	39.950	ng	99
41) Hexachlorocyclopentadiene	9.034	237	238457	38.977	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	400730	42.317	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

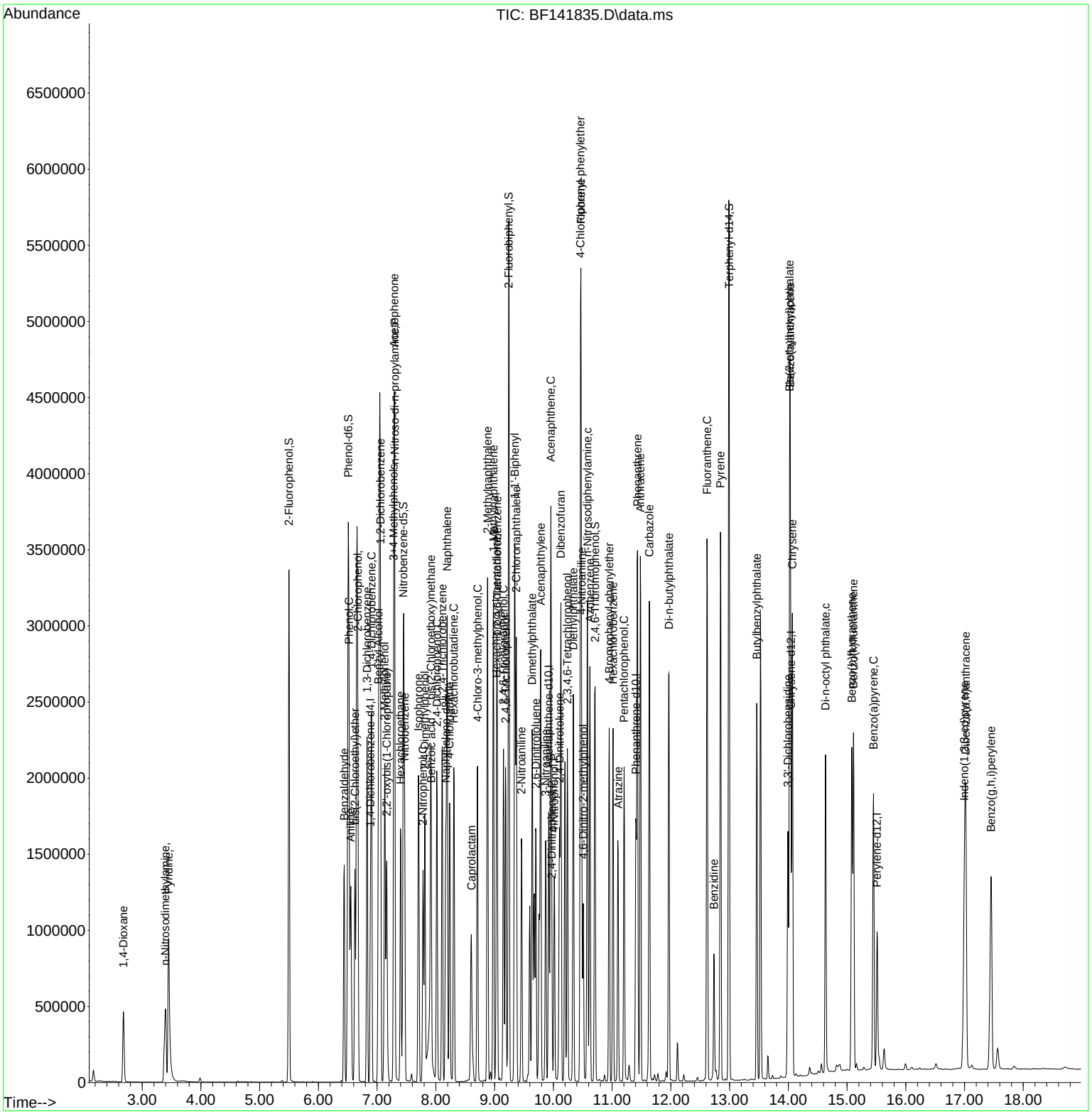
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	418618	44.643	ng		100
46) 1,1'-Biphenyl	9.345	154	1527684	39.541	ng		100
47) 2-Chloronaphthalene	9.369	162	1161554	40.733	ng		99
48) 2-Nitroaniline	9.457	65	379633	48.579	ng		99
49) Acenaphthylene	9.786	152	1752309	40.985	ng		99
50) Dimethylphthalate	9.639	163	1345931	39.595	ng		100
51) 2,6-Dinitrotoluene	9.704	165	301676	46.487	ng		91
52) Acenaphthene	9.957	154	1206437	41.819	ng		99
53) 3-Nitroaniline	9.869	138	332516	48.006	ng	#	96
54) 2,4-Dinitrophenol	9.975	184	151609	57.060	ng	#	1
55) Dibenzofuran	10.128	168	1695006	40.368	ng		99
56) 4-Nitrophenol	10.016	139	287143	57.194	ng		98
57) 2,4-Dinitrotoluene	10.104	165	398234	49.981	ng		93
58) Fluorene	10.469	166	1272485	40.458	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	356479	43.711	ng		99
60) Diethylphthalate	10.339	149	1340314	39.332	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	615259	39.043	ng		99
62) 4-Nitroaniline	10.480	138	334806	57.675	ng		95
63) Azobenzene	10.622	77	1373599	38.283	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	213658	51.268	ng		94
66) n-Nitrosodiphenylamine	10.581	169	1114485	38.849	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	389763	38.195	ng		97
68) Hexachlorobenzene	11.016	284	427268	39.651	ng		99
69) Atrazine	11.104	200	272033	34.483	ng		98
70) Pentachlorophenol	11.204	266	308128	45.085	ng		99
71) Phenanthrene	11.433	178	1890507	40.455	ng		99
72) Anthracene	11.480	178	1901419	40.598	ng		99
73) Carbazole	11.633	167	1730017	41.829	ng		100
74) Di-n-butylphthalate	11.969	149	1976148	37.694	ng		99
75) Fluoranthene	12.616	202	2021622	42.219	ng		99
77) Benzidine	12.733	184	455419	60.734	ng		100
78) Pyrene	12.845	202	2051898	39.773	ng		100
80) Butylbenzylphthalate	13.463	149	769482	41.053	ng		99
81) Benzo(a)anthracene	14.033	228	1559065	39.619	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	454914	40.293	ng		99
83) Chrysene	14.069	228	1417476	39.076	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	961512	41.198	ng		99
85) Di-n-octyl phthalate	14.633	149	1348427	38.592	ng		99
87) Indeno(1,2,3-cd)pyrene	16.998	276	1345046	41.147	ng		98
88) Benzo(b)fluoranthene	15.080	252	1404956	40.178	ng		100
89) Benzo(k)fluoranthene	15.110	252	1085559	36.524	ng		100
90) Benzo(a)pyrene	15.451	252	1102749	39.322	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	1095326	41.050	ng		98
92) Benzo(g,h,i)perylene	17.451	276	1134958	41.520	ng		99

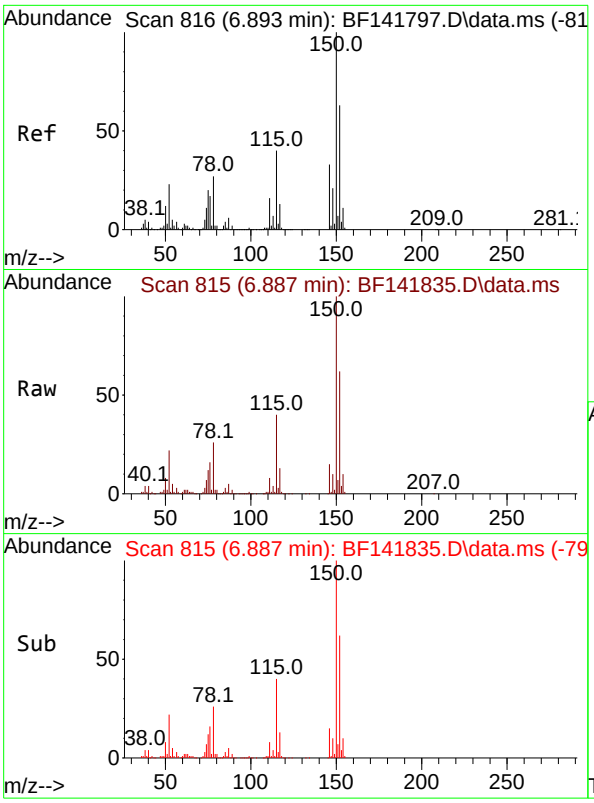
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



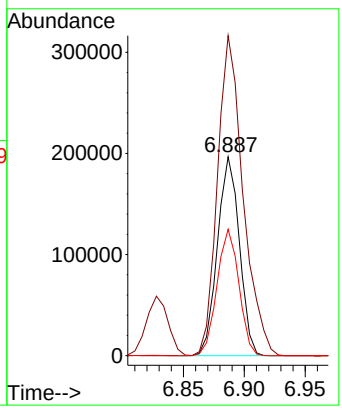


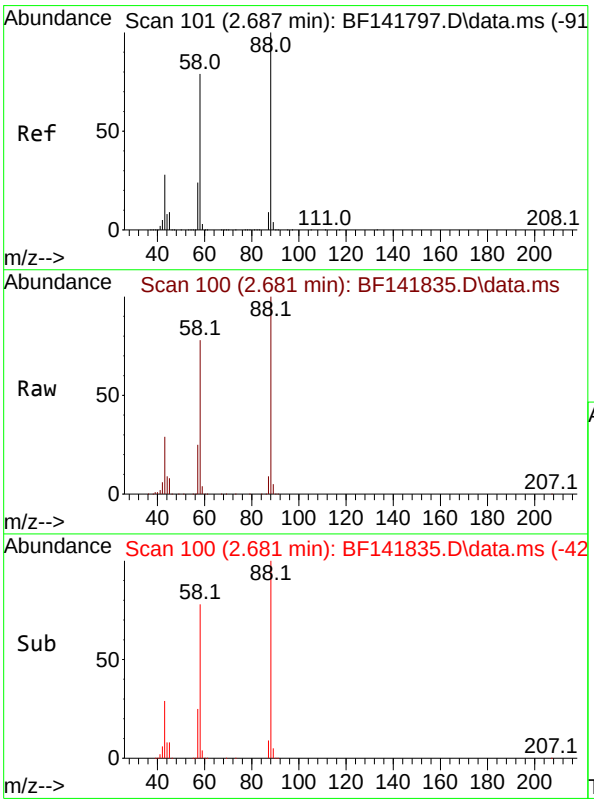
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 246608

Ion	Ratio	Lower	Upper
152	100		
150	160.8	127.5	191.3
115	63.6	51.4	77.2

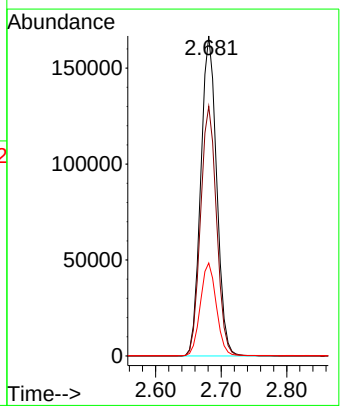


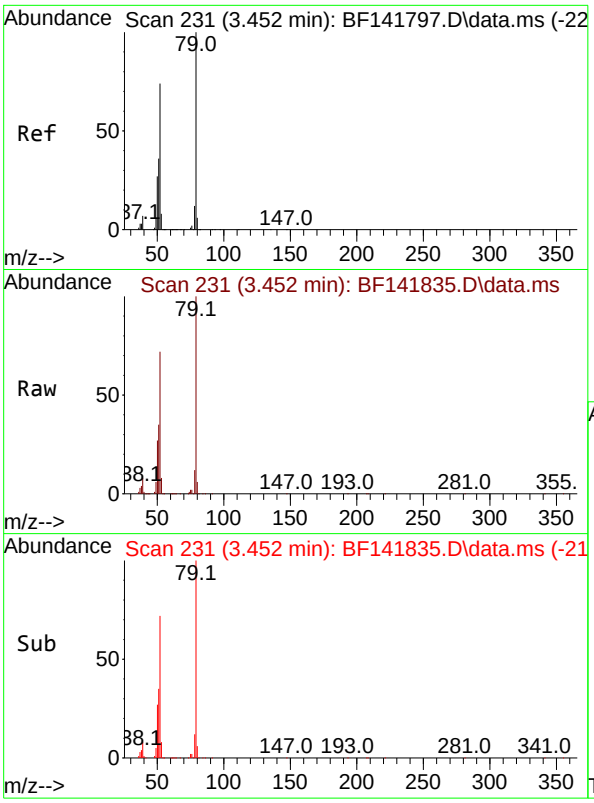


#2
1,4-Dioxane
Concen: 40.225 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 88 Resp: 281849

Ion	Ratio	Lower	Upper
88	100		
58	78.5	63.9	95.9
43	28.9	23.0	34.6



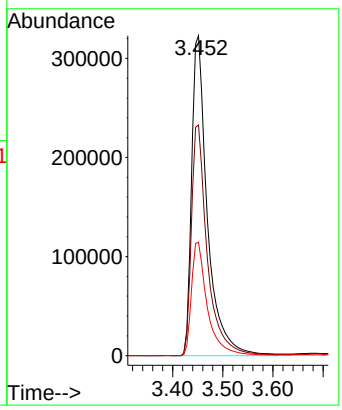


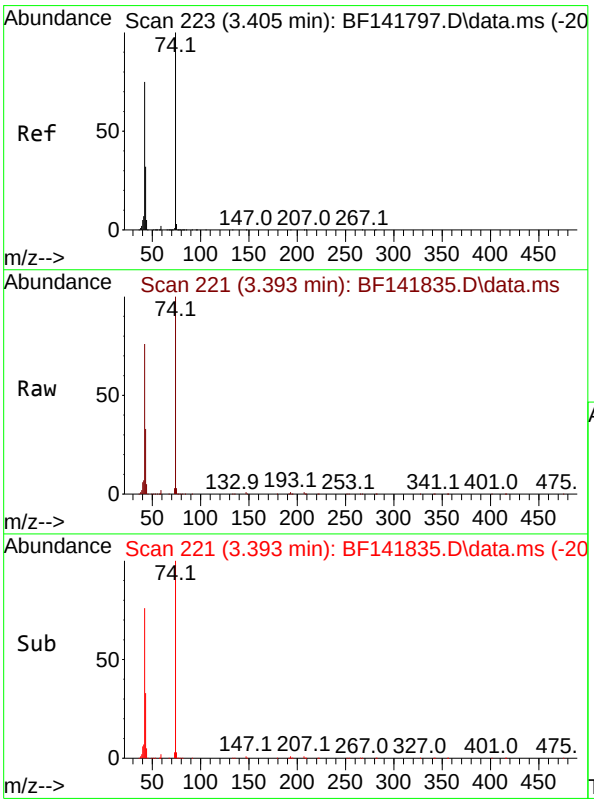
#3
Pyridine
Concen: 40.439 ng
RT: 3.452 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 705001

Ion	Ratio	Lower	Upper
79	100		
52	72.1	59.0	88.4
51	35.4	29.0	43.4

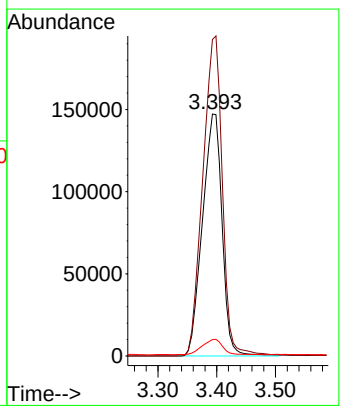


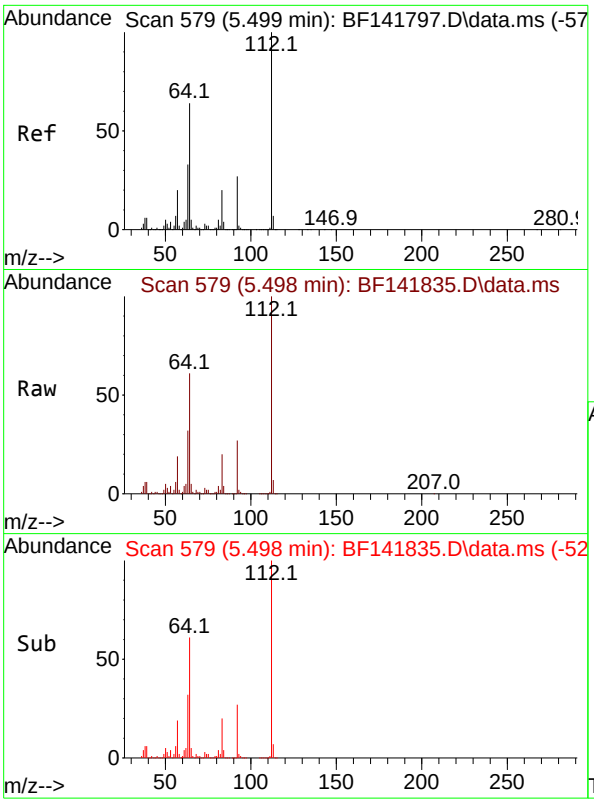


#4
n-Nitrosodimethylamine
Concen: 40.740 ng
RT: 3.393 min Scan# 221
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 42 Resp: 341742

Ion	Ratio	Lower	Upper
42	100		
74	130.9	107.1	160.7
44	6.7	6.6	9.8



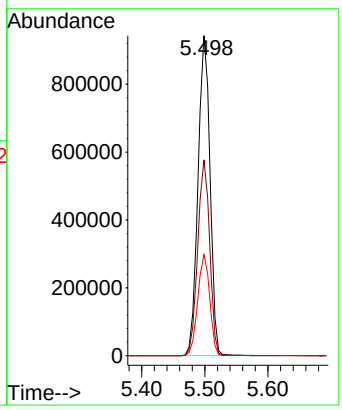


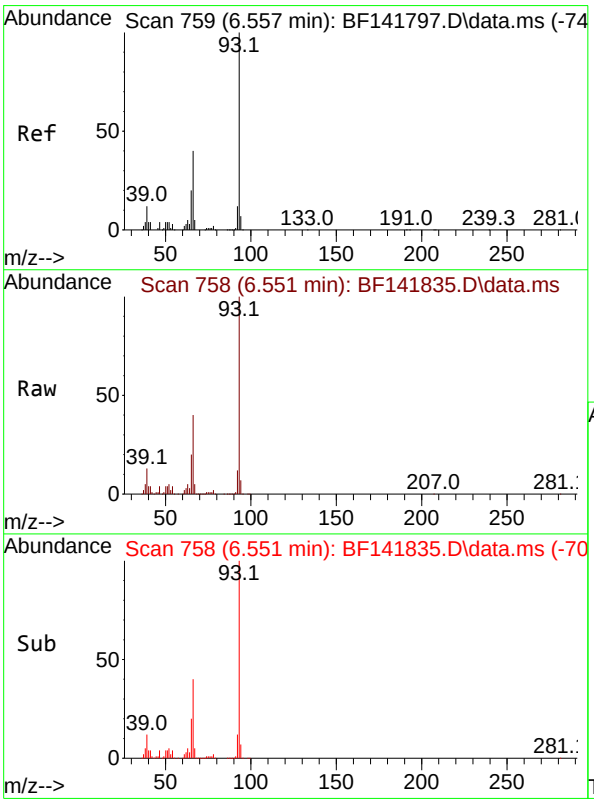
#5
2-Fluorophenol
Concen: 80.693 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 1246062

Ion	Ratio	Lower	Upper
112	100		
64	61.2	51.3	76.9
63	31.6	26.2	39.4

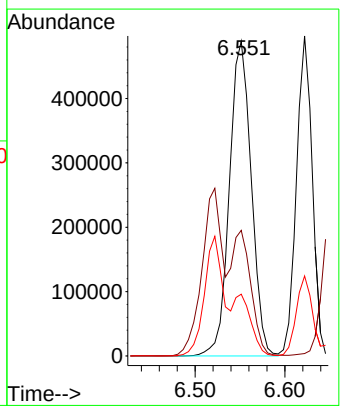


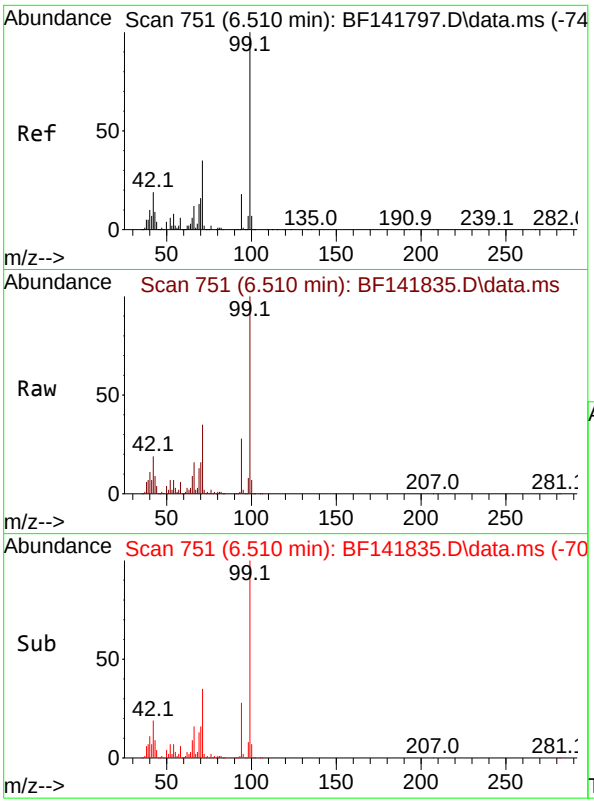


#6
Aniline
Concen: 39.633 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 93 Resp: 828160

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.3	48.5
65	19.6	15.9	23.9



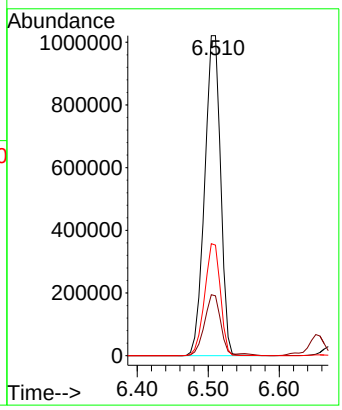


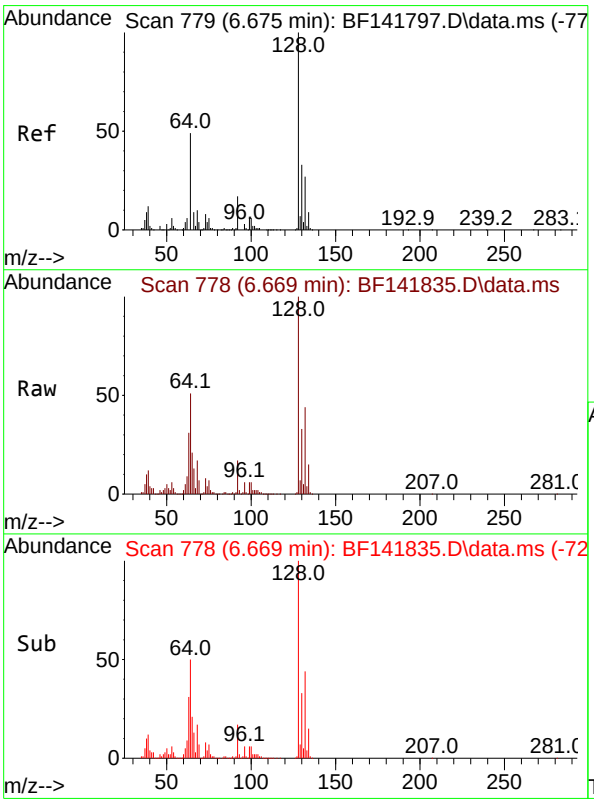
#7
Phenol-d6
Concen: 79.155 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1590960

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.2	22.8
71	34.6	28.2	42.2

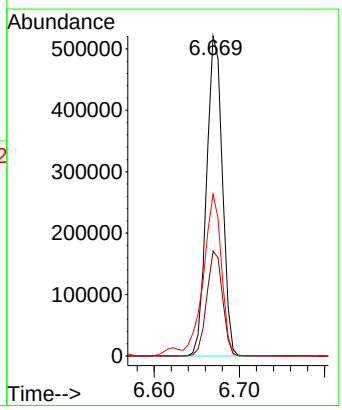


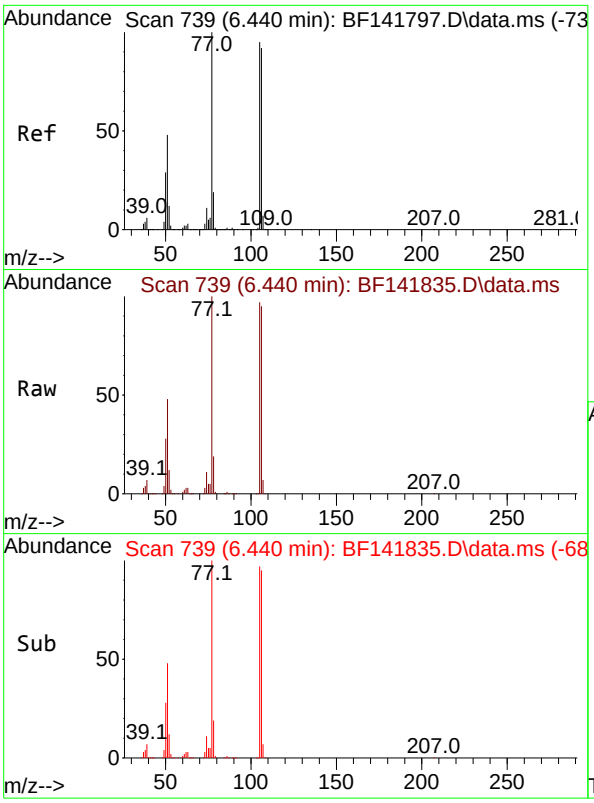


#8
2-Chlorophenol
Concen: 39.983 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:128 Resp: 667898

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.6	52.6
64	50.5	31.1	71.1



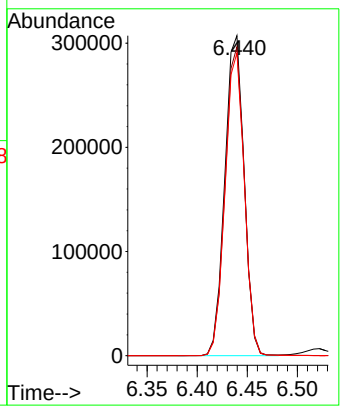


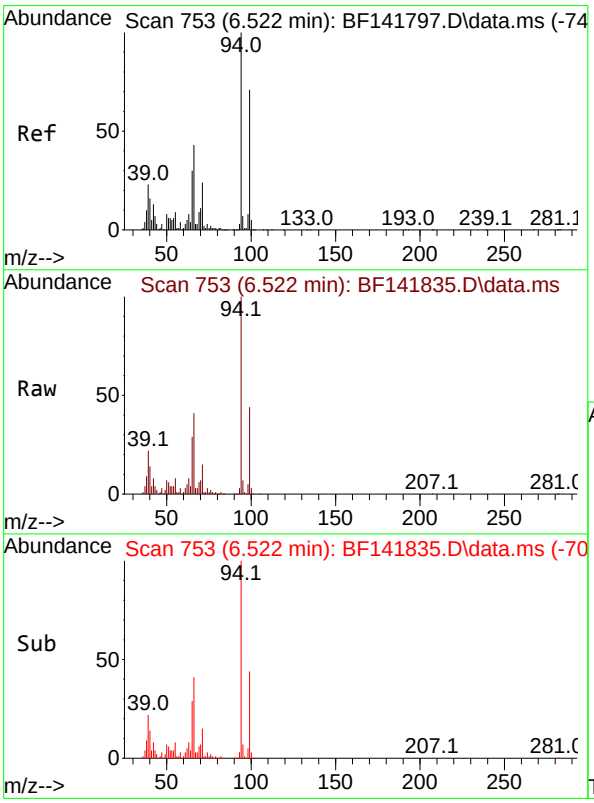
#9
Benzaldehyde
Concen: 35.170 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 411185

Ion	Ratio	Lower	Upper
77	100		
105	96.5	75.3	115.3
106	94.6	72.3	112.3

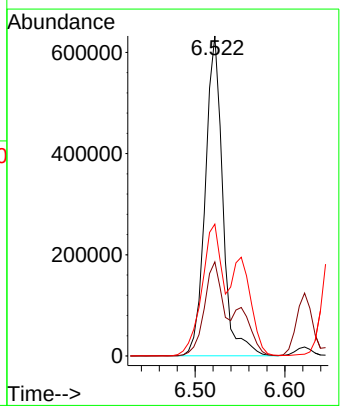


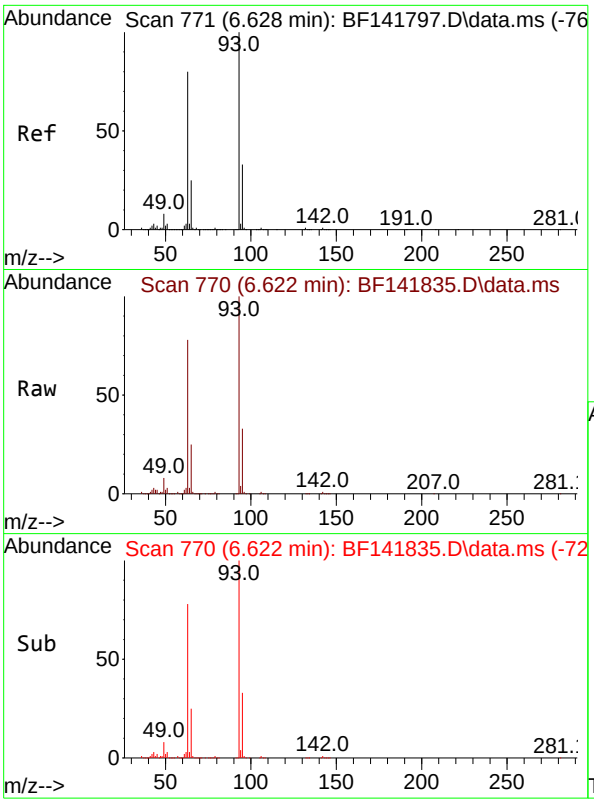


#10
Phenol
Concen: 39.824 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 94 Resp: 855332

Ion	Ratio	Lower	Upper
94	100		
65	29.4	10.2	50.2
66	41.2	23.2	63.2



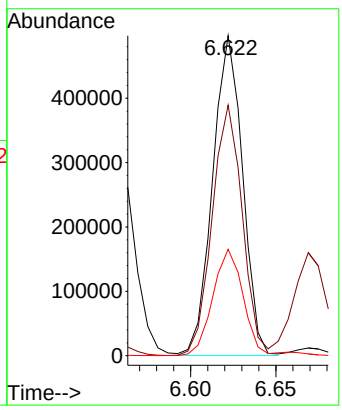


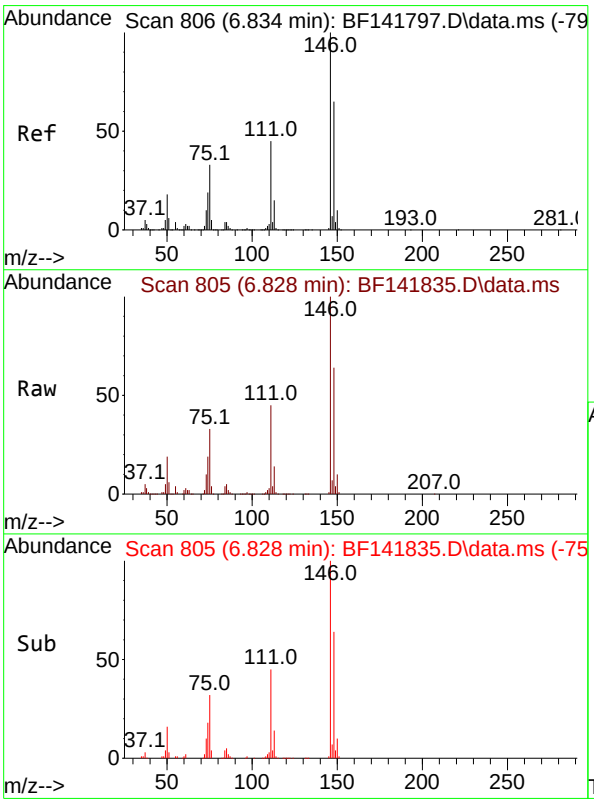
#11
bis(2-Chloroethyl)ether
Concen: 37.114 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 607625

Ion	Ratio	Lower	Upper
93	100		
63	78.3	59.3	99.3
95	33.2	13.2	53.2

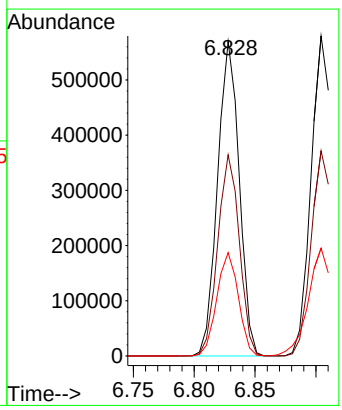


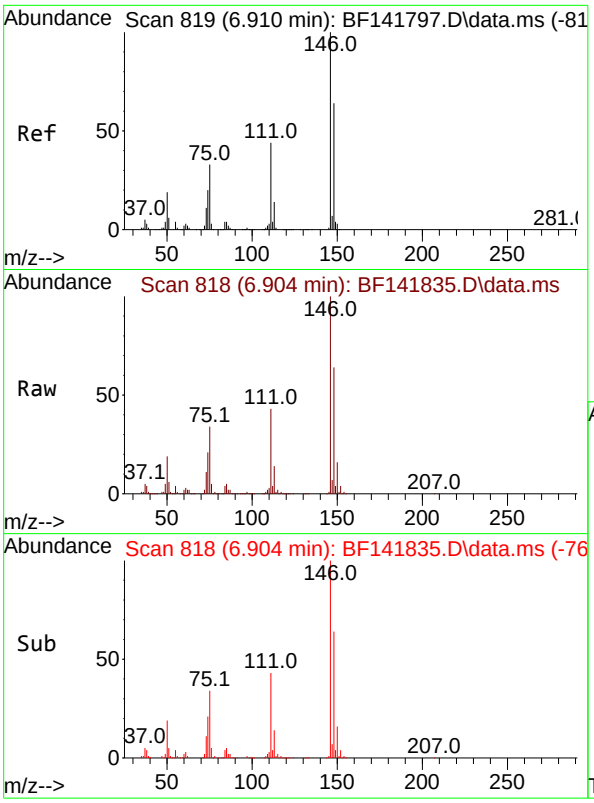


#12
1,3-Dichlorobenzene
Concen: 39.458 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:146 Resp: 705872

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.6
75	32.9	26.2	39.4



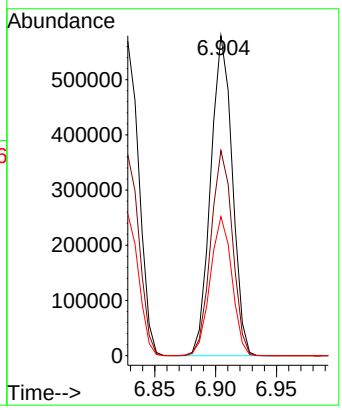


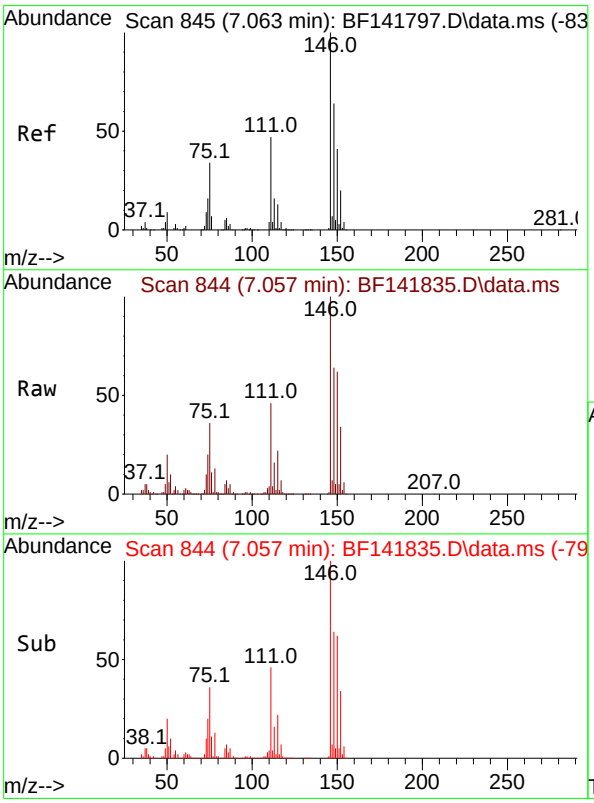
#13
1,4-Dichlorobenzene
Concen: 39.687 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 715372

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.4	77.2
111	43.5	35.5	53.3

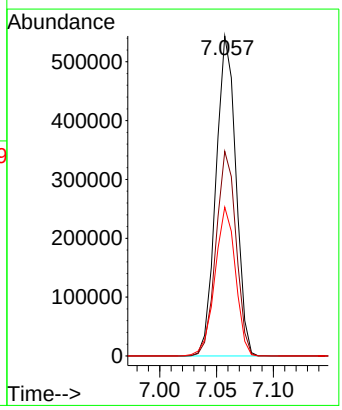


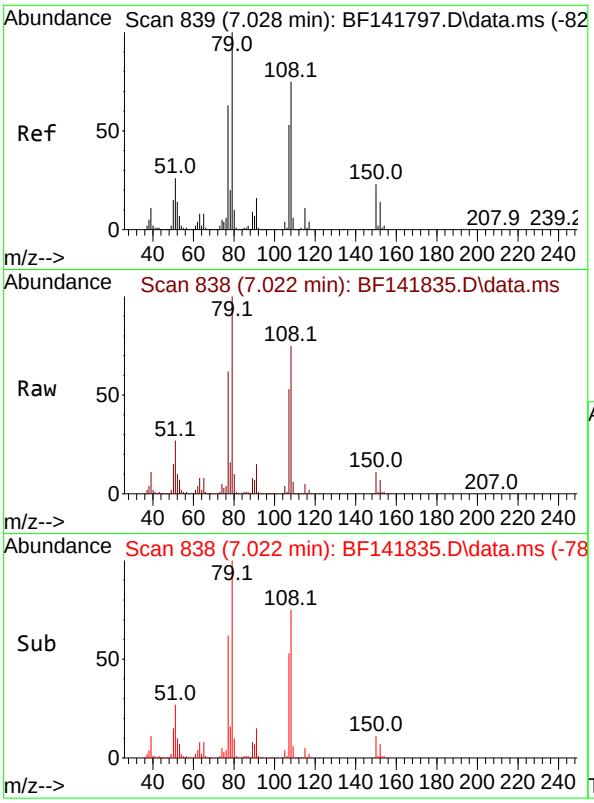


#14
1,2-Dichlorobenzene
Concen: 39.499 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:146 Resp: 664849

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	46.5	37.8	56.6



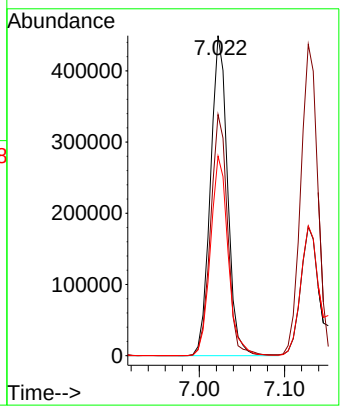


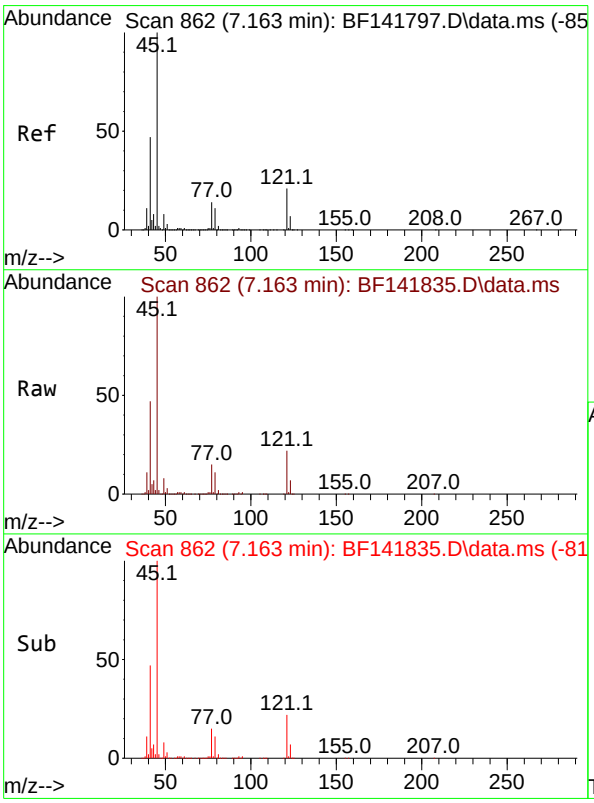
#15
Benzyl Alcohol
Concen: 39.062 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 627467

Ion	Ratio	Lower	Upper
79	100		
108	75.4	60.2	90.2
77	62.4	50.2	75.2

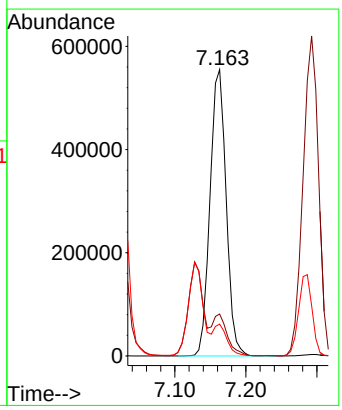


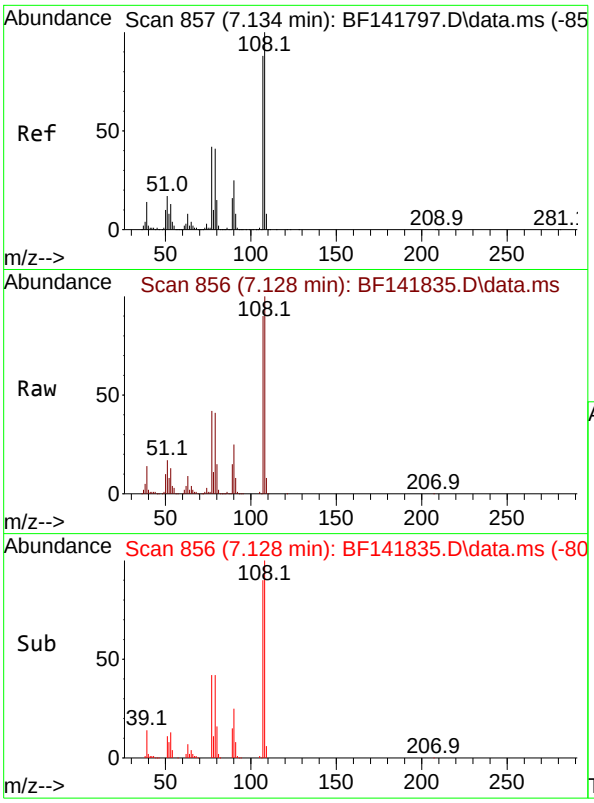


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.131 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 45 Resp: 873469

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	34.4
79	11.1	0.0	30.9



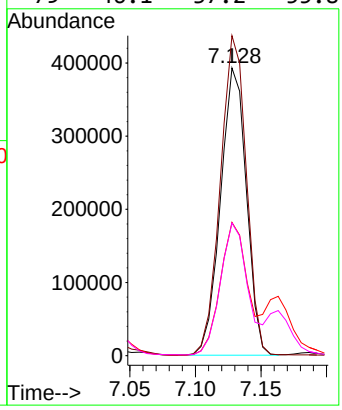


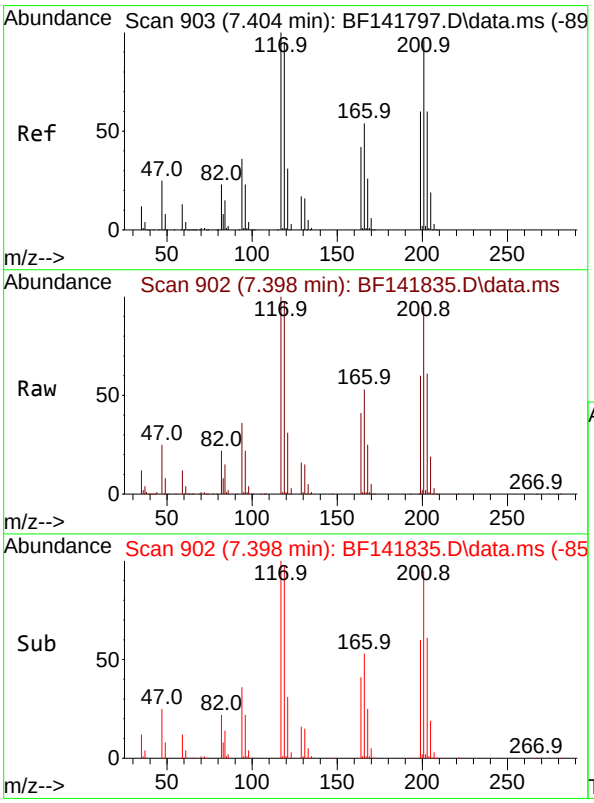
#17
2-Methylphenol
Concen: 39.120 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 539412

Ion	Ratio	Lower	Upper
107	100		
108	111.2	90.6	135.8
77	46.3	37.7	56.5
79	46.1	37.2	55.8

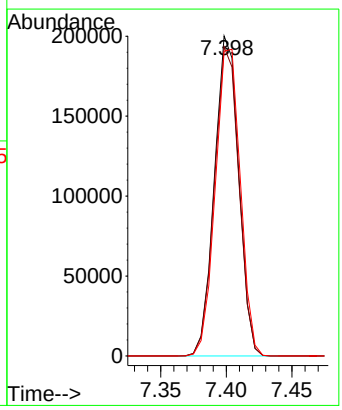


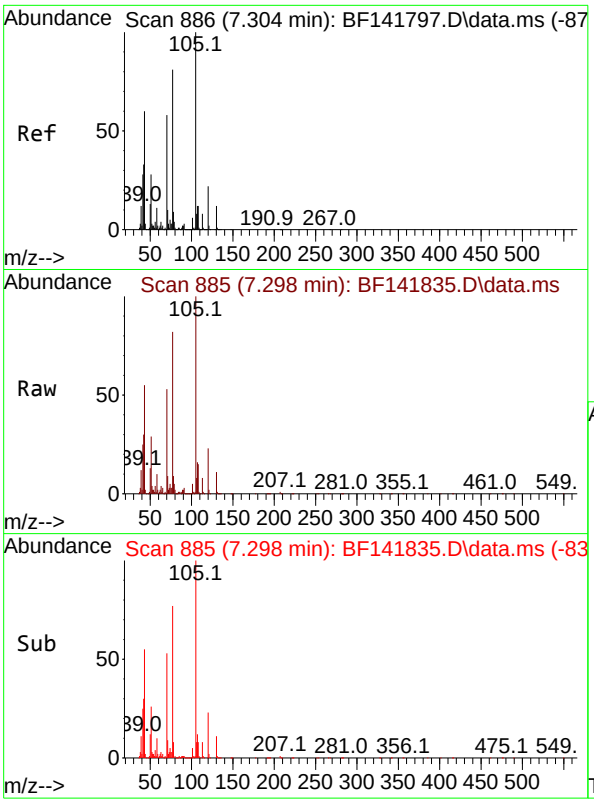


#18
Hexachloroethane
Concen: 38.167 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:117 Resp: 257495

Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.8	113.8
201	95.3	76.7	115.1



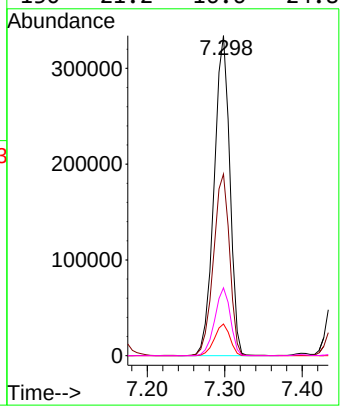


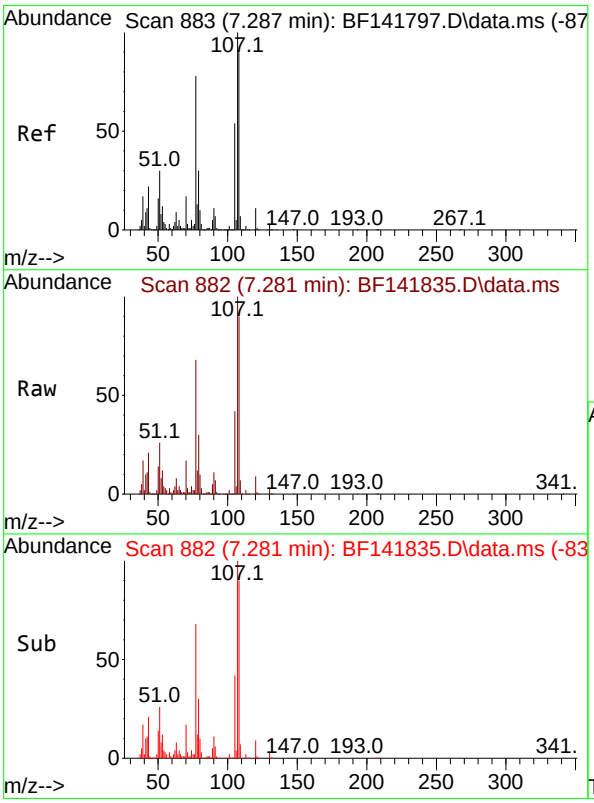
#19
n-Nitroso-di-n-propylamine
Concen: 35.637 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 470848

Ion	Ratio	Lower	Upper
70	100		
42	56.8	45.4	68.0
101	9.9	7.8	11.8
130	21.2	16.6	24.8

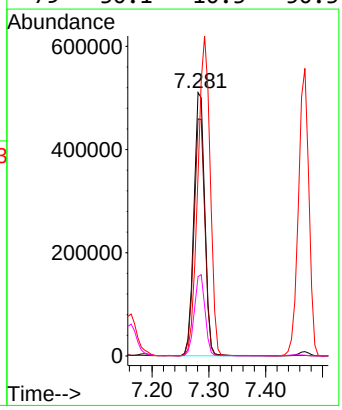


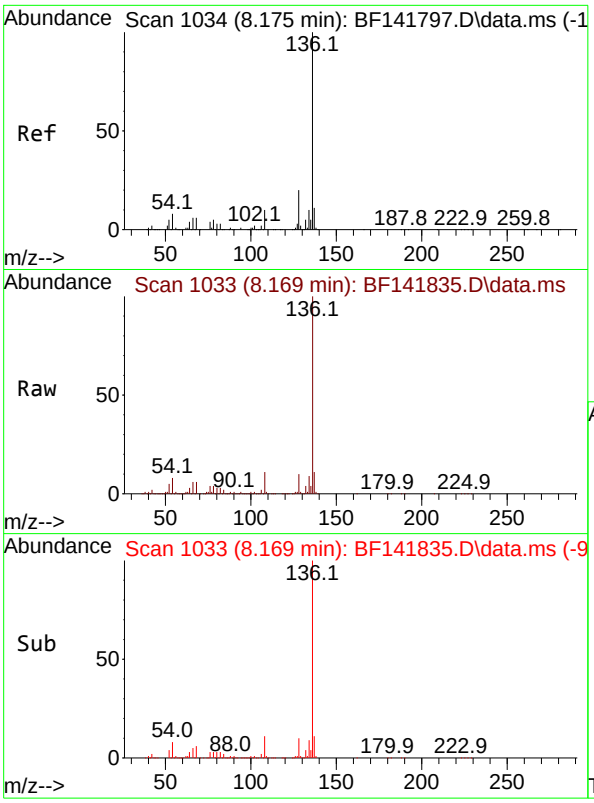


#20
3+4-Methylphenols
Concen: 39.753 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:107 Resp: 682535

Ion	Ratio	Lower	Upper
107	100		
108	90.0	69.7	109.7
77	68.4	58.3	98.3
79	30.1	10.3	50.3



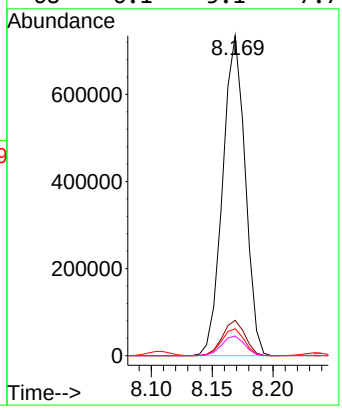


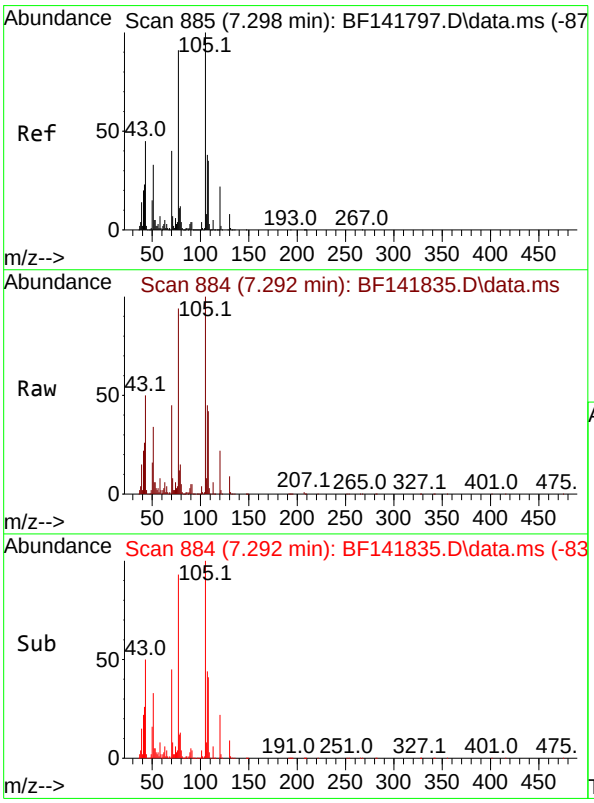
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 945299

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.4	6.9	10.3
68	6.1	5.1	7.7

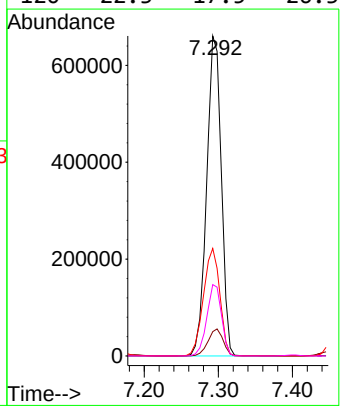


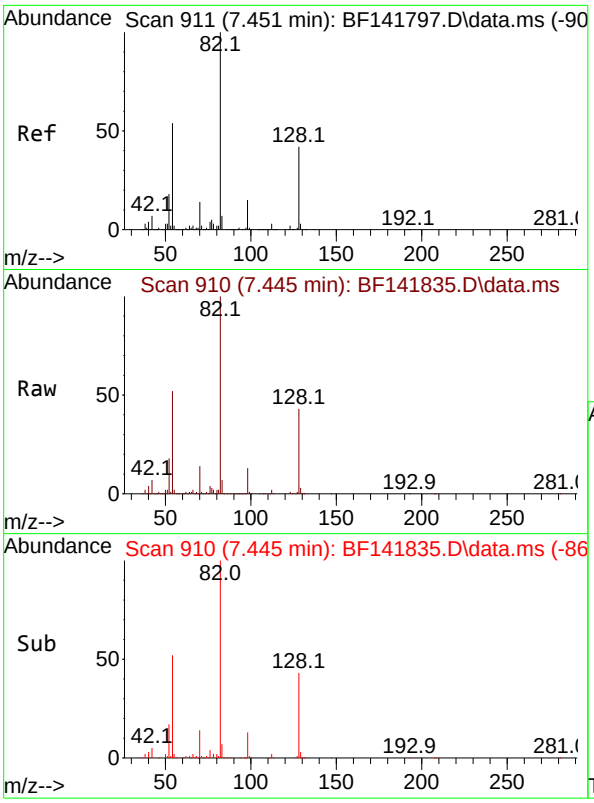


#22
Acetophenone
Concen: 39.406 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:105 Resp: 907232

Ion	Ratio	Lower	Upper
105	100		
71	7.6	5.4	8.0
51	33.6	26.1	39.1
120	22.3	17.5	26.3



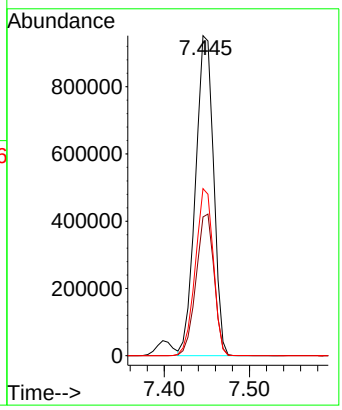


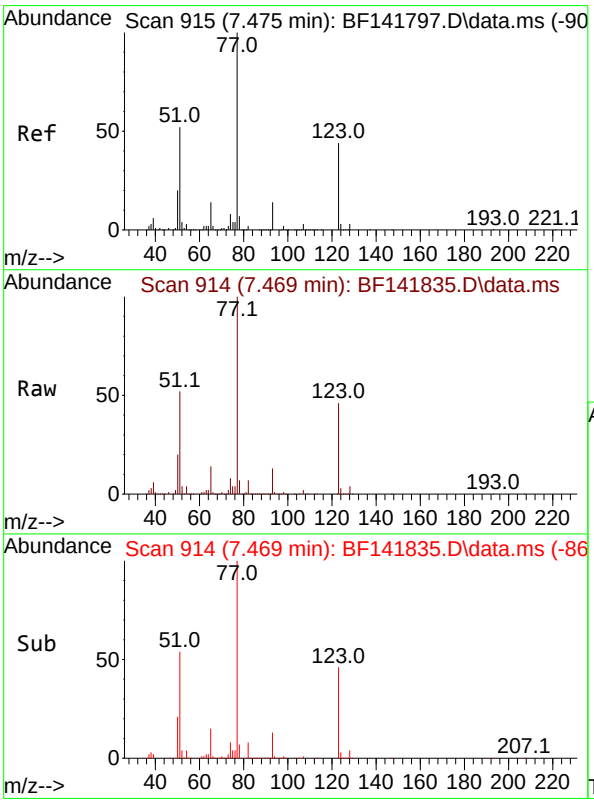
#23
Nitrobenzene-d5
Concen: 94.823 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1402310

Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.5	50.3
54	52.2	42.7	64.1

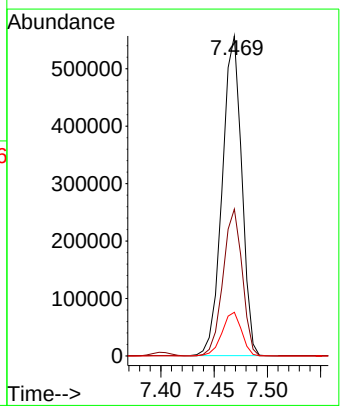


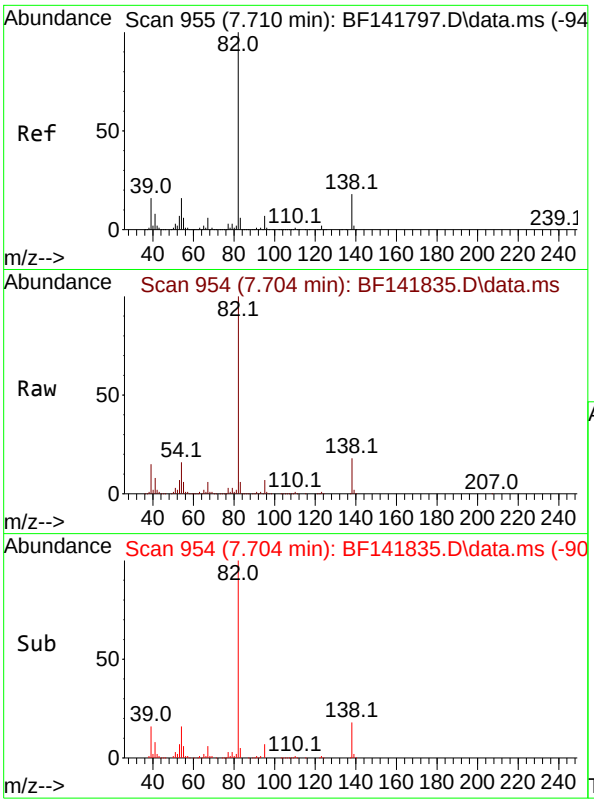


#24
Nitrobenzene
Concen: 44.751 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 77 Resp: 708702

Ion	Ratio	Lower	Upper
77	100		
123	45.9	35.8	53.8
65	13.7	11.2	16.8



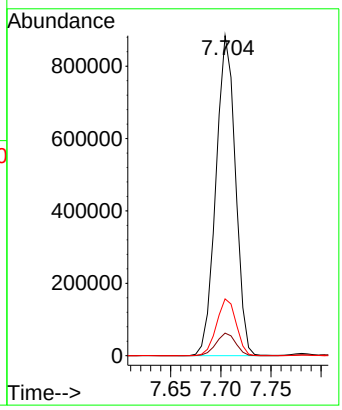


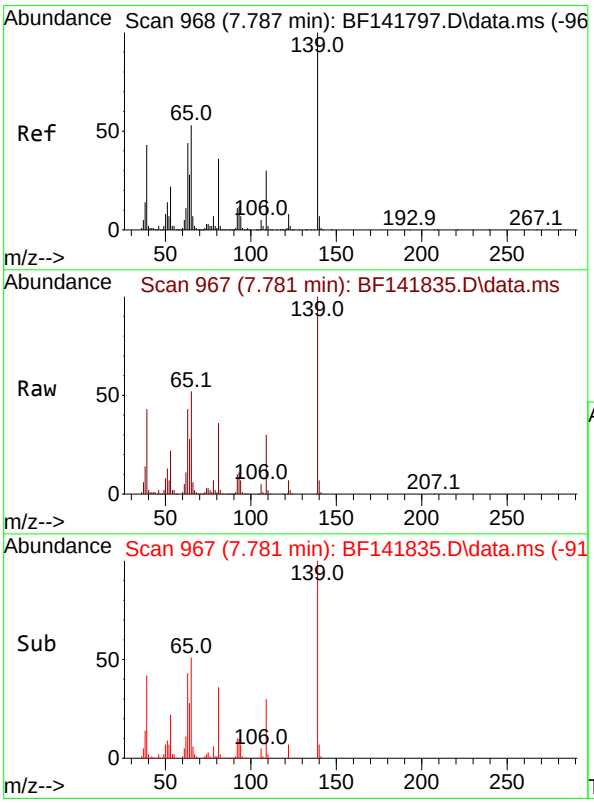
#25
Isophorone
Concen: 37.638 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1195819

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.8
138	17.8	14.0	21.0

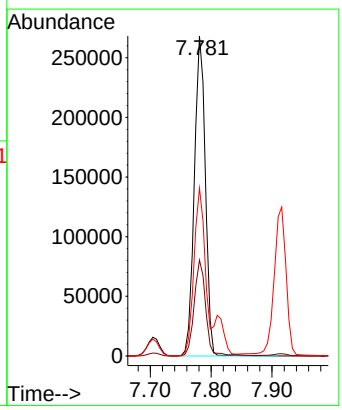


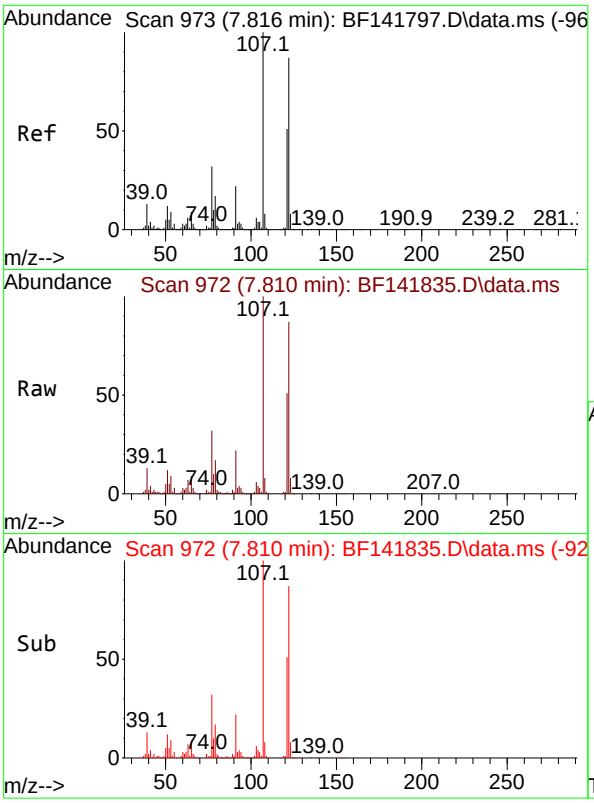


#26
2-Nitrophenol
Concen: 47.760 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:139 Resp: 337701

Ion	Ratio	Lower	Upper
139	100		
109	29.9	24.1	36.1
65	52.4	42.3	63.5



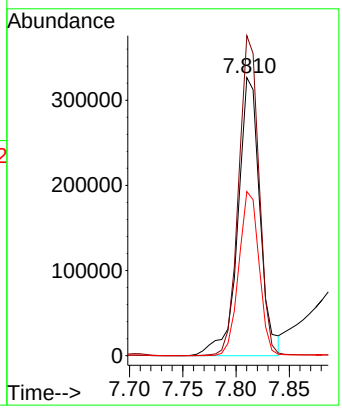


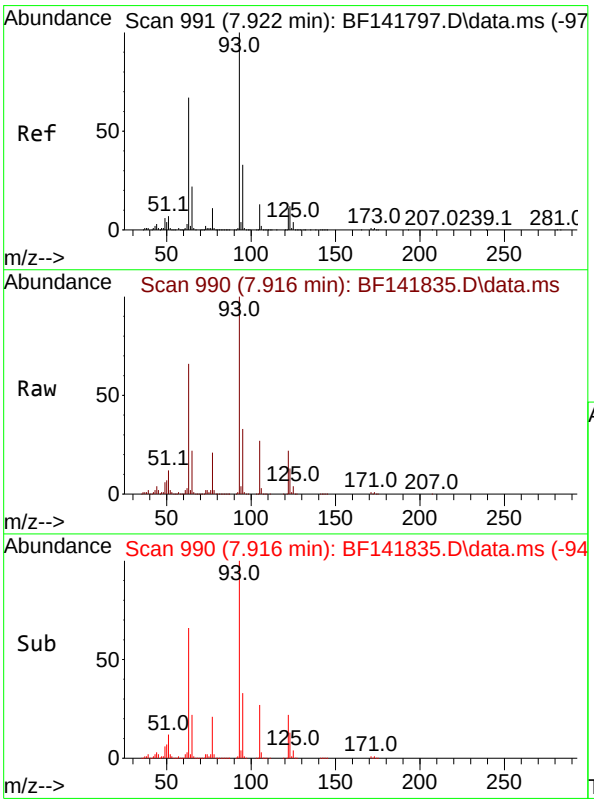
#27
2,4-Dimethylphenol
Concen: 40.220 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 469729

Ion	Ratio	Lower	Upper
122	100		
107	115.1	92.5	138.7
121	59.0	47.1	70.7

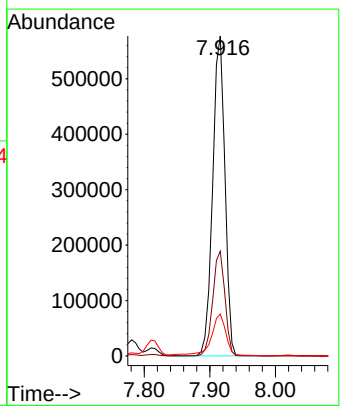


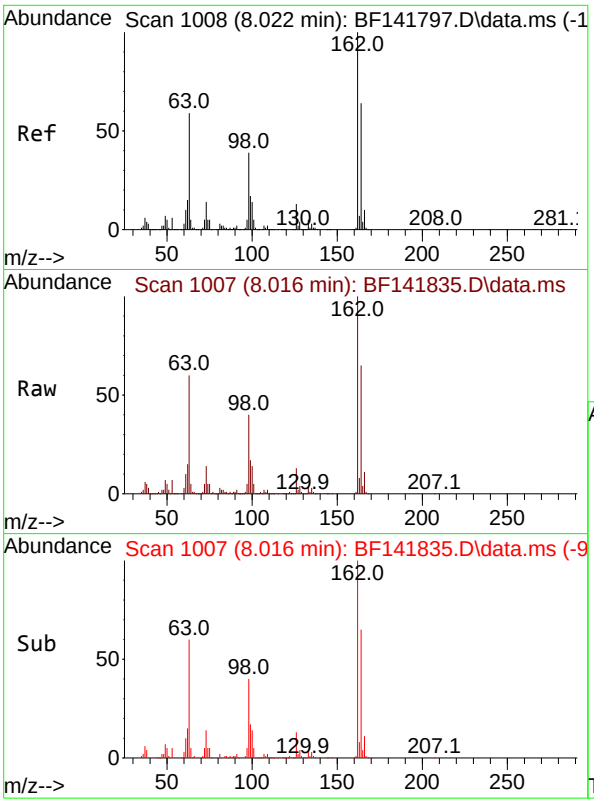


#28
bis(2-Chloroethoxy)methane
Concen: 36.892 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 93 Resp: 747705

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.5	39.7
123	13.1	10.0	15.0



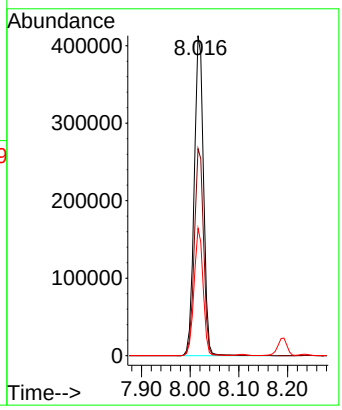


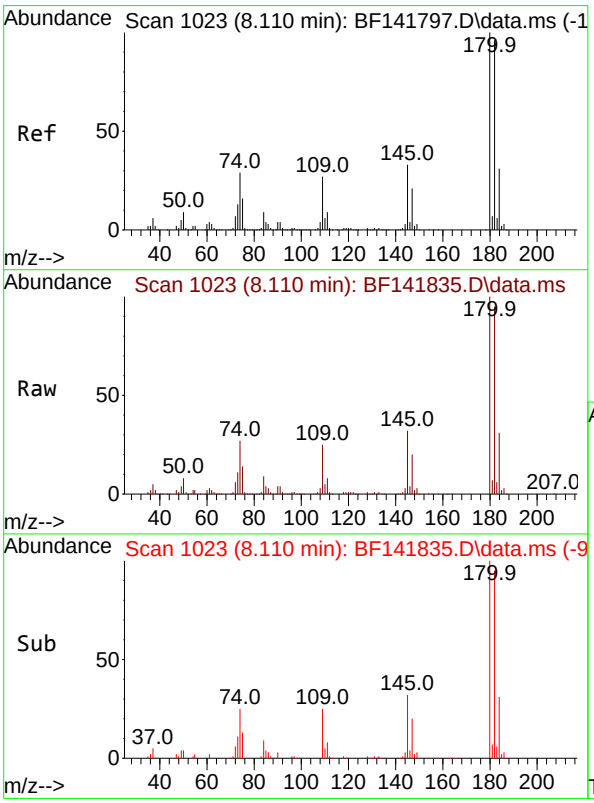
#29
2,4-Dichlorophenol
Concen: 40.846 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 550338

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	39.8	19.6	59.6

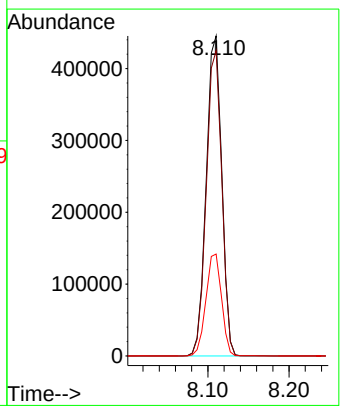


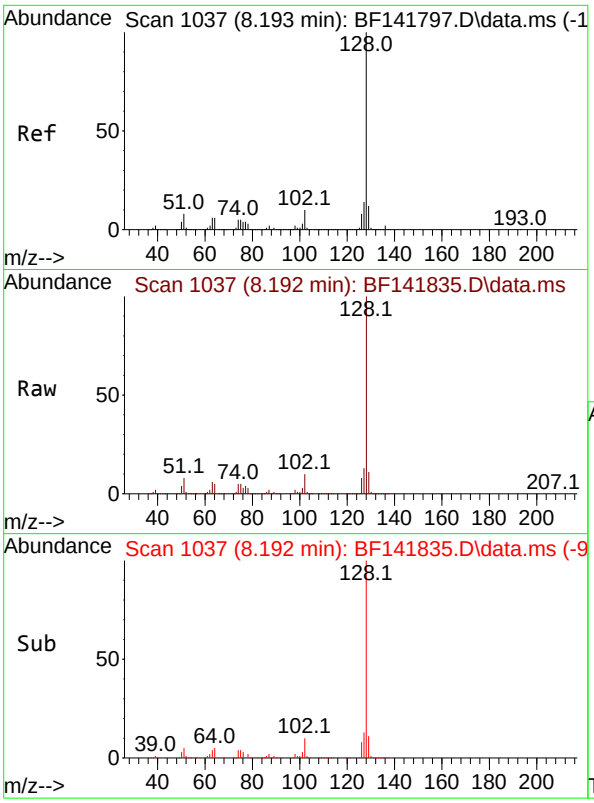


#30
1,2,4-Trichlorobenzene
Concen: 39.998 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:180 Resp: 590525

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.8	115.2
145	31.9	26.4	39.6



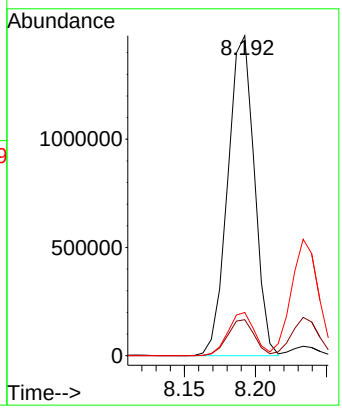


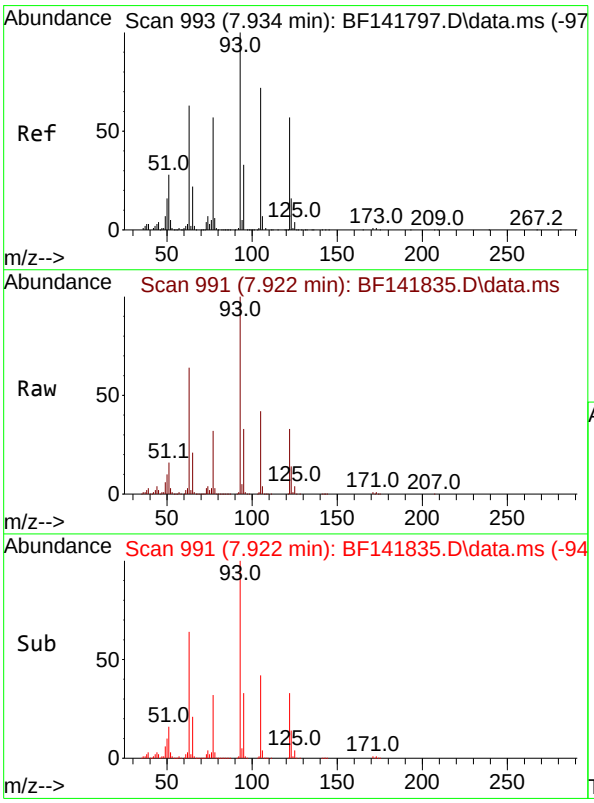
#31
Naphthalene
Concen: 39.574 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1922662

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.5	11.0	16.4

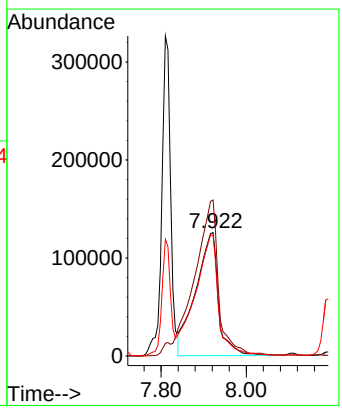


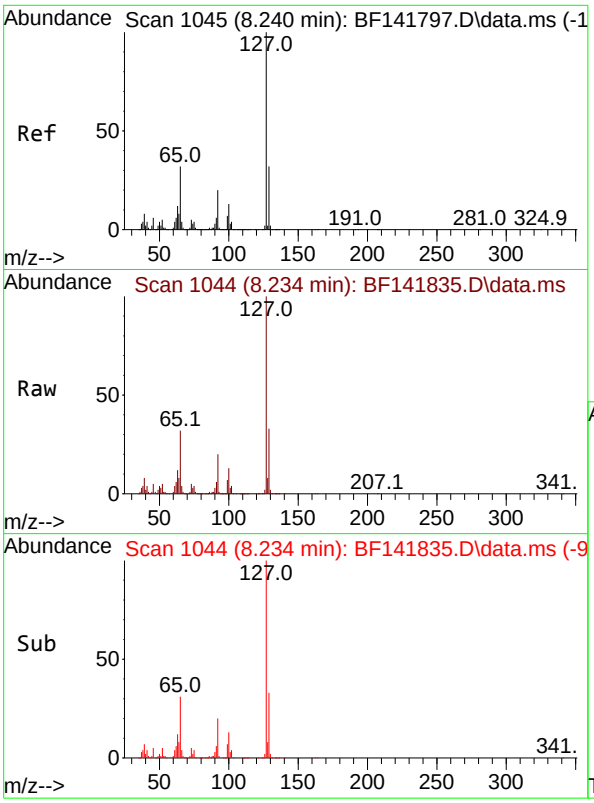


#32
Benzoic acid
Concen: 48.051 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:122 Resp: 468479

Ion	Ratio	Lower	Upper
122	100		
105	126.5	105.8	145.8
77	97.8	79.9	119.9



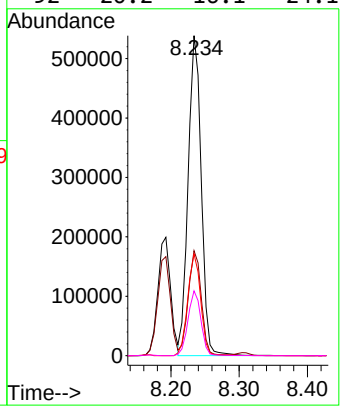


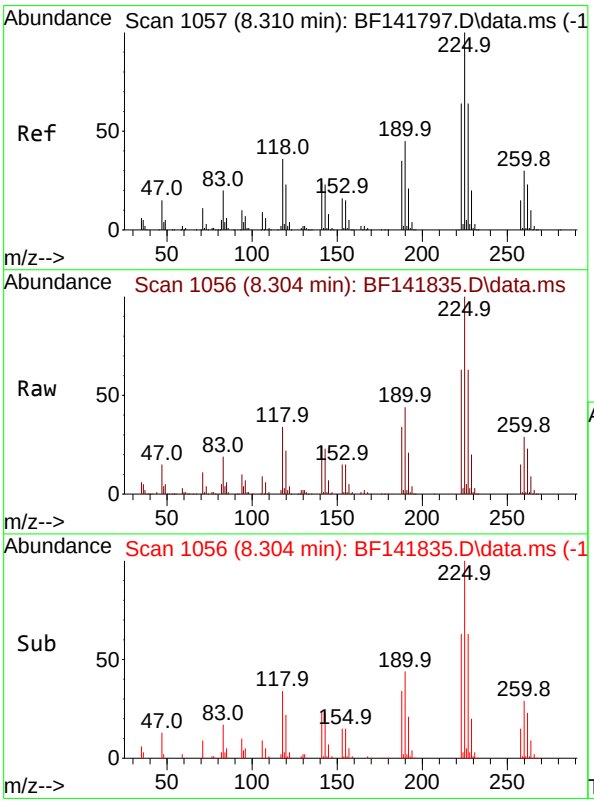
#33
4-Chloroaniline
Concen: 40.091 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 714189

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.1	39.1
65	31.7	25.7	38.5
92	20.2	16.1	24.1

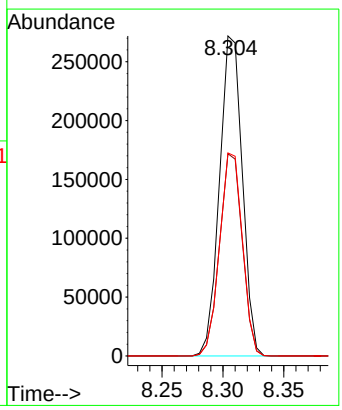


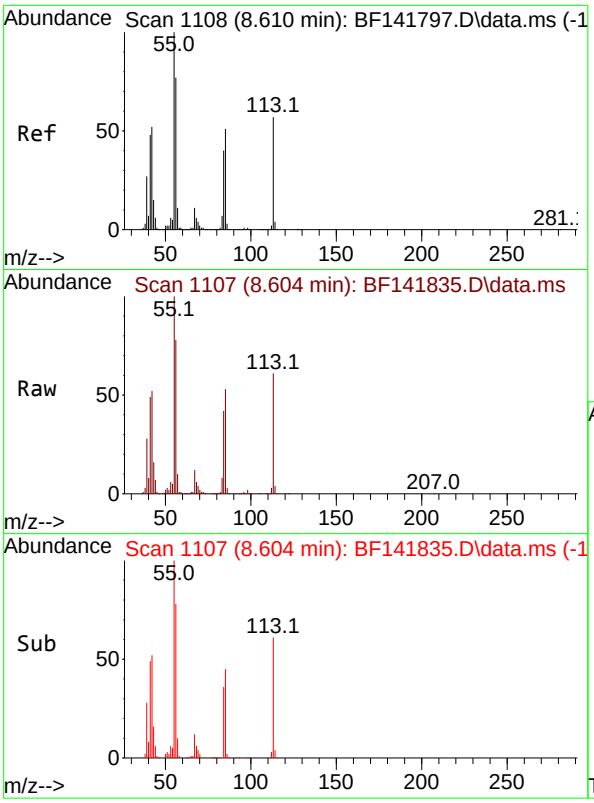


#34
Hexachlorobutadiene
Concen: 38.603 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:225 Resp: 354160

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.2
227	63.5	51.6	77.4



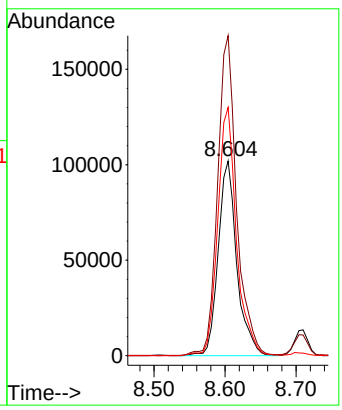


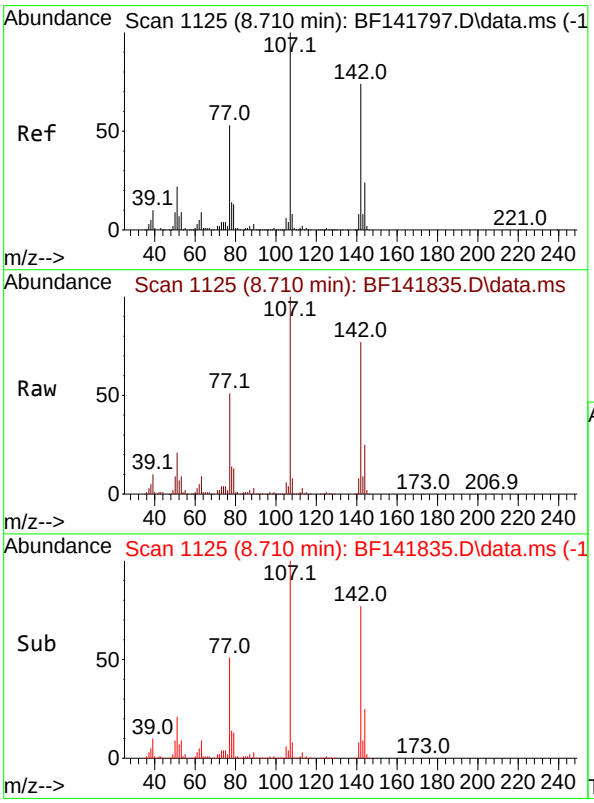
#35
Caprolactam
Concen: 44.676 ng
RT: 8.604 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 185176

Ion	Ratio	Lower	Upper
113	100		
55	164.3	155.6	195.6
56	127.4	114.6	154.6

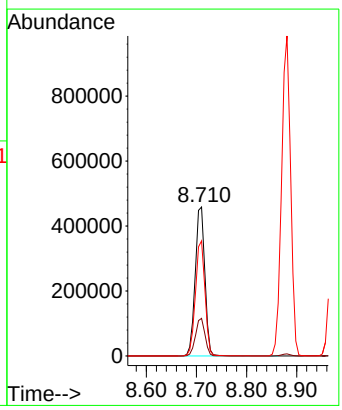


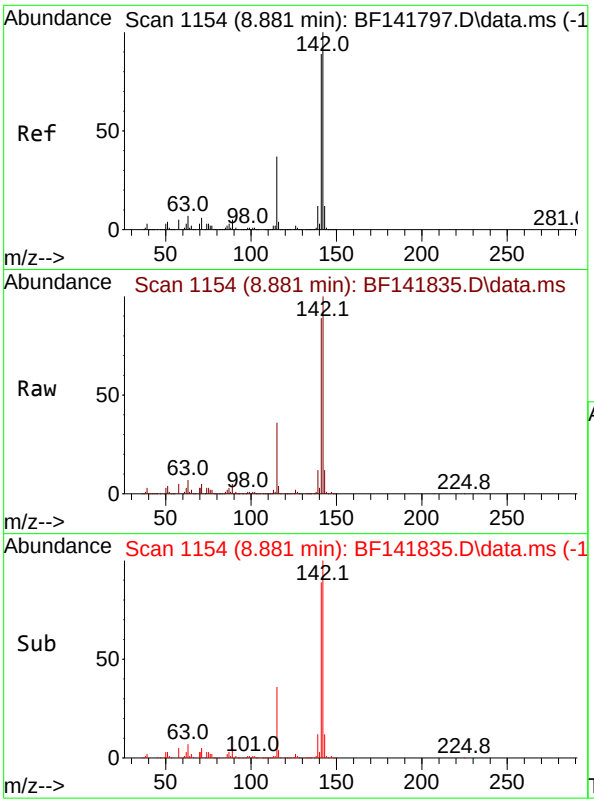


#36
4-Chloro-3-methylphenol
Concen: 40.944 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:107 Resp: 612816

Ion	Ratio	Lower	Upper
107	100		
144	25.2	19.4	29.0
142	77.2	59.4	89.0



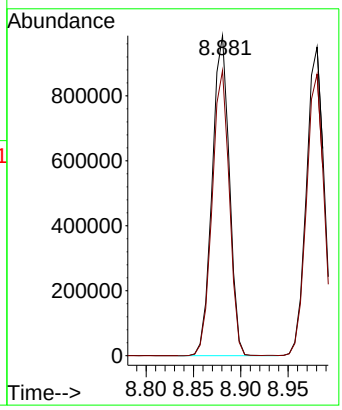


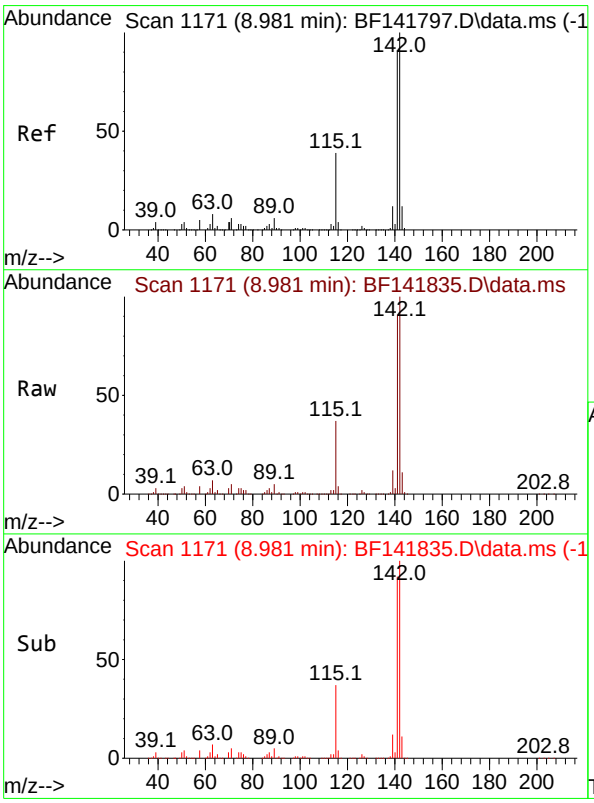
#37
2-Methylnaphthalene
Concen: 38.964 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 1241689

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.1	106.7

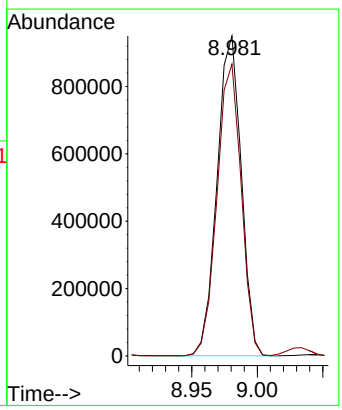


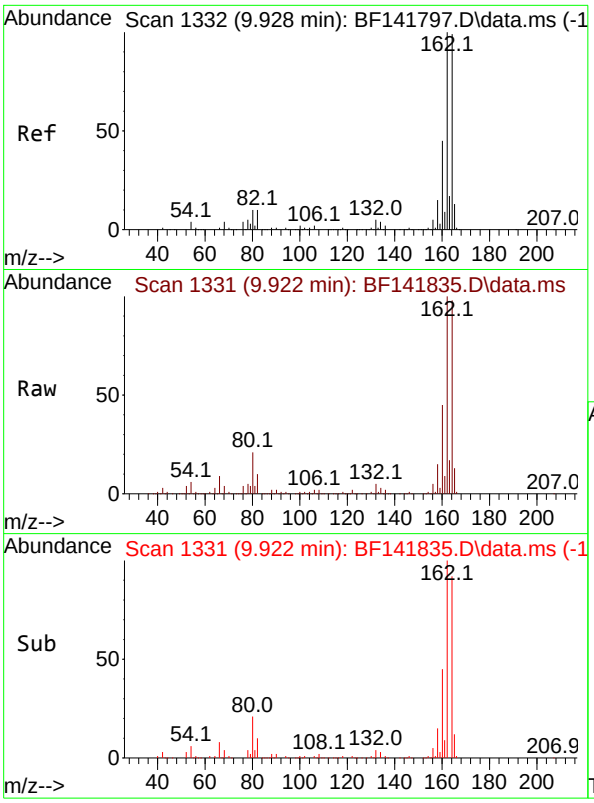


#38
1-Methylnaphthalene
Concen: 39.860 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:142 Resp: 1218817

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.1	109.7



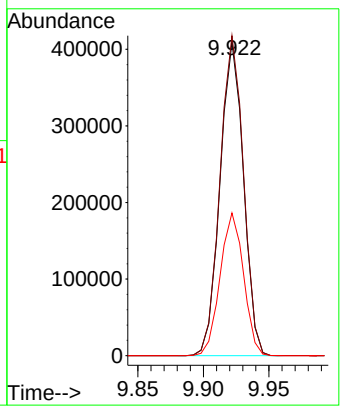


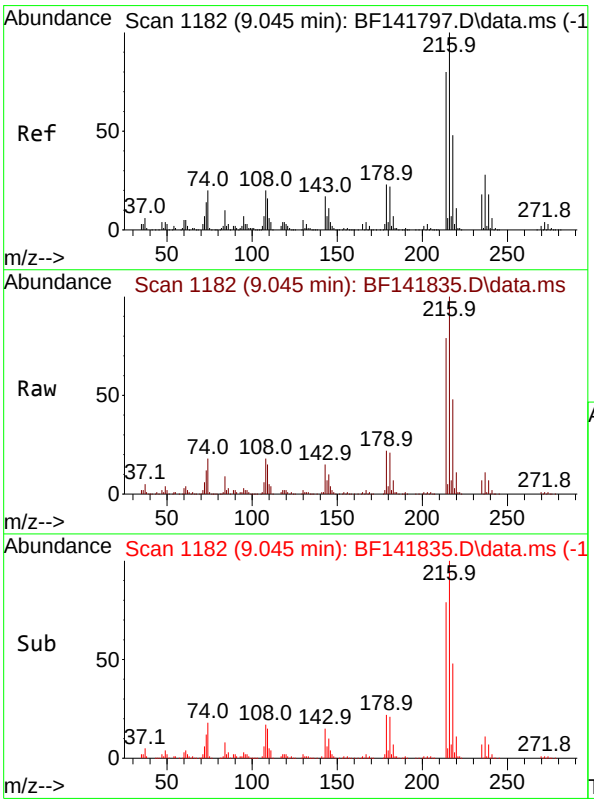
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 507589

Ion	Ratio	Lower	Upper
164	100		
162	102.1	80.6	120.8
160	45.5	36.3	54.5

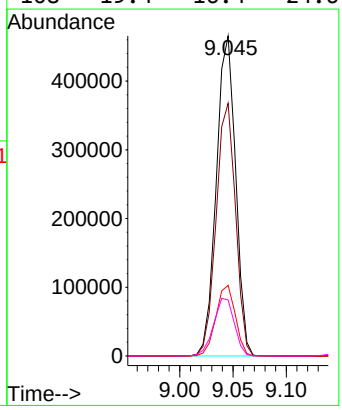


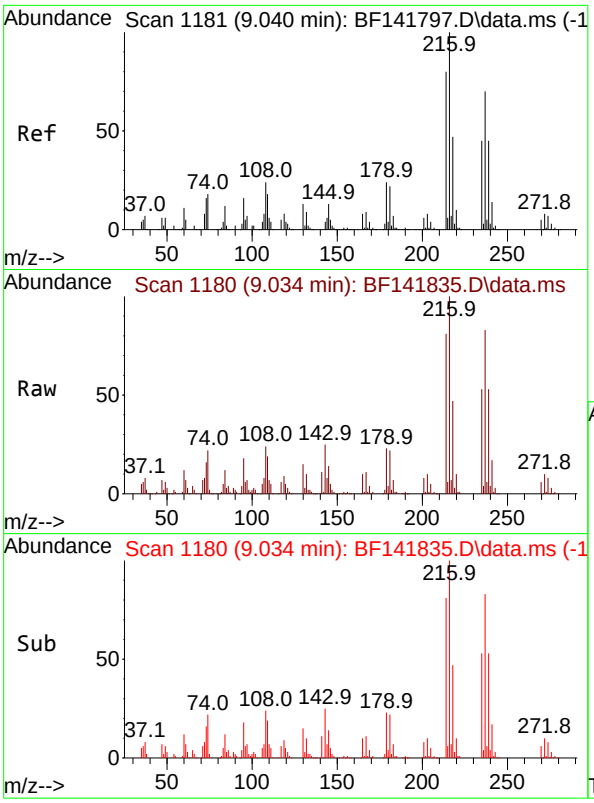


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.950 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:216 Resp: 585654

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.5	95.3
179	22.2	18.1	27.1
108	19.4	16.4	24.6



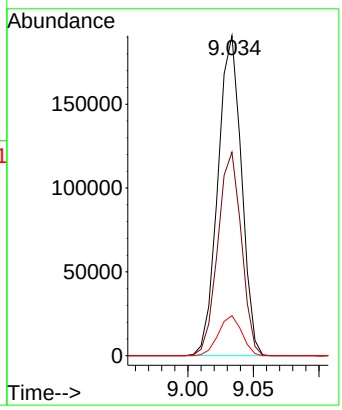


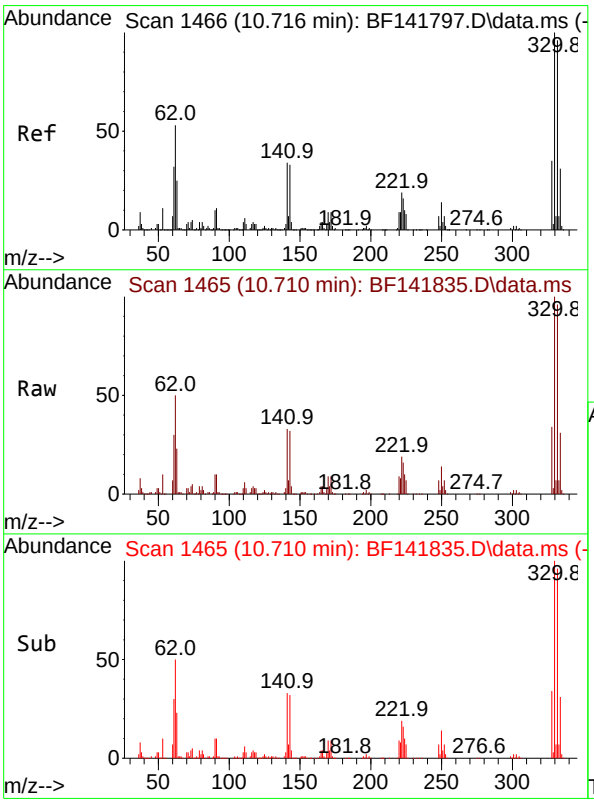
#41
Hexachlorocyclopentadiene
Concen: 38.977 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 238457

Ion	Ratio	Lower	Upper
237	100		
235	63.6	43.3	83.3
272	12.5	0.0	31.9

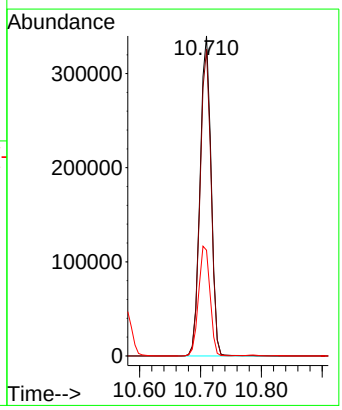


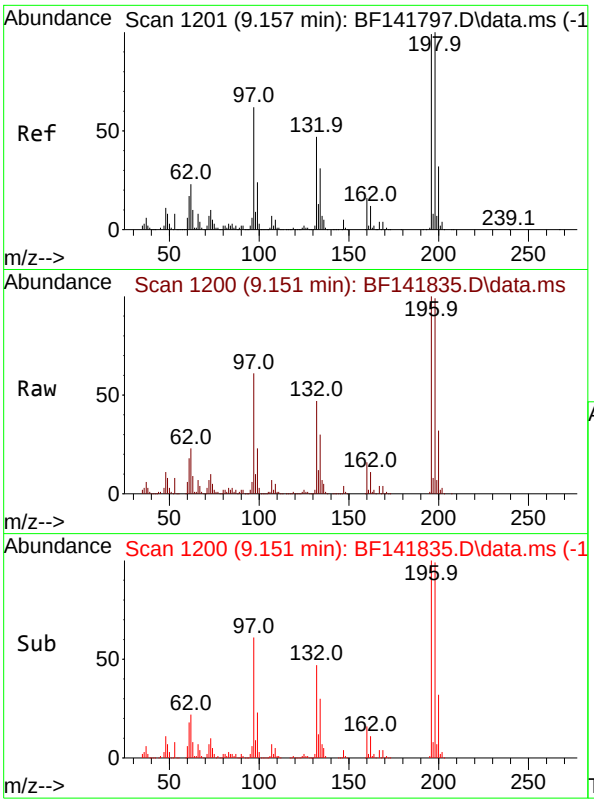


#42
2,4,6-Tribromophenol
Concen: 89.332 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:330 Resp: 425699

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	115.0
141	35.7	29.0	43.4



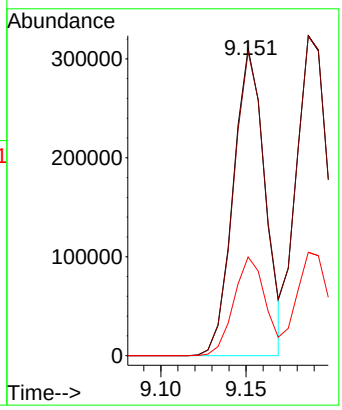


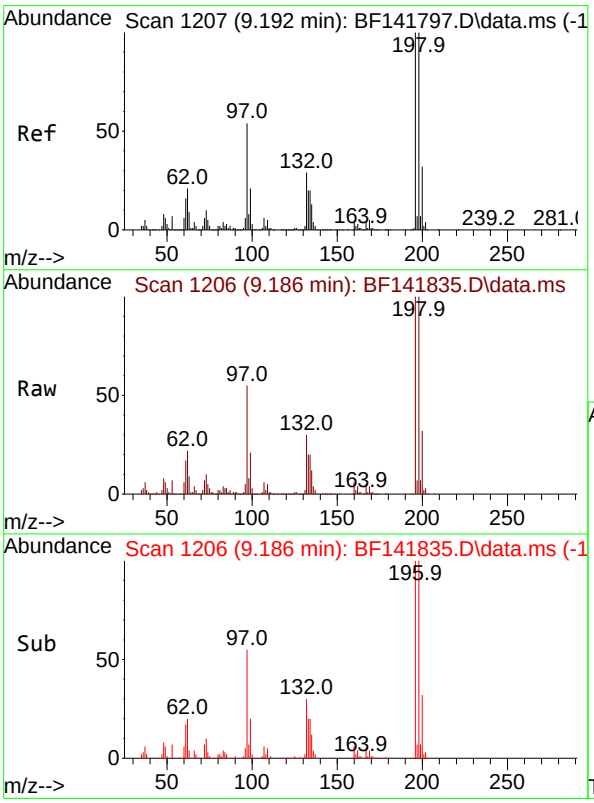
#43
2,4,6-Trichlorophenol
Concen: 42.317 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 400730

Ion	Ratio	Lower	Upper
196	100		
198	98.9	80.4	120.6
200	32.1	25.7	38.5

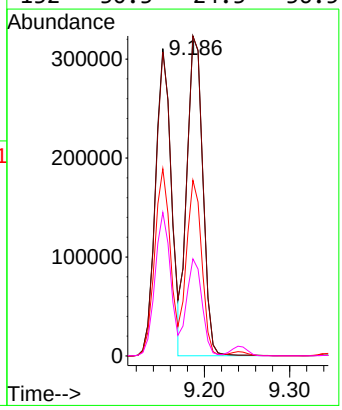


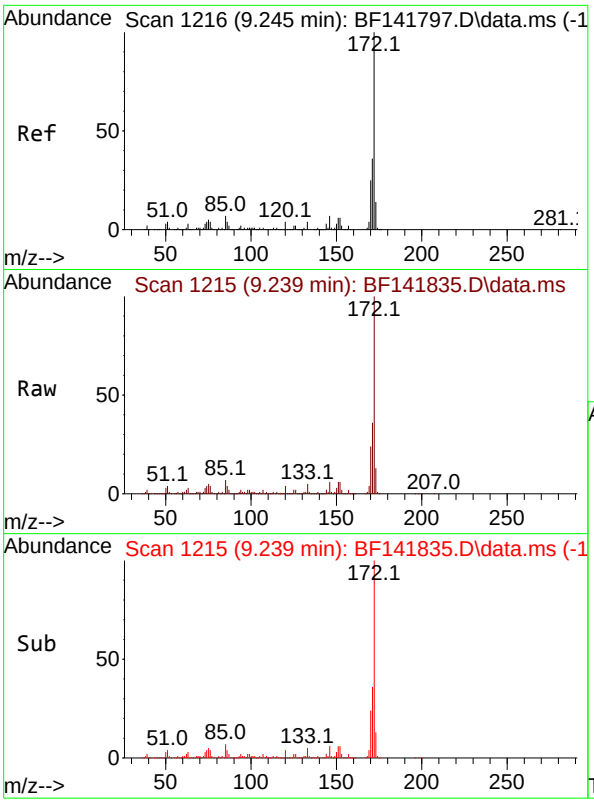


#44
2,4,5-Trichlorophenol
Concen: 44.643 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:196 Resp: 418618

Ion	Ratio	Lower	Upper
196	100		
198	99.9	79.7	119.5
97	54.9	44.2	66.2
132	30.3	24.3	36.5



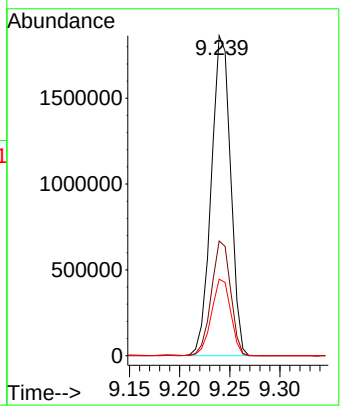


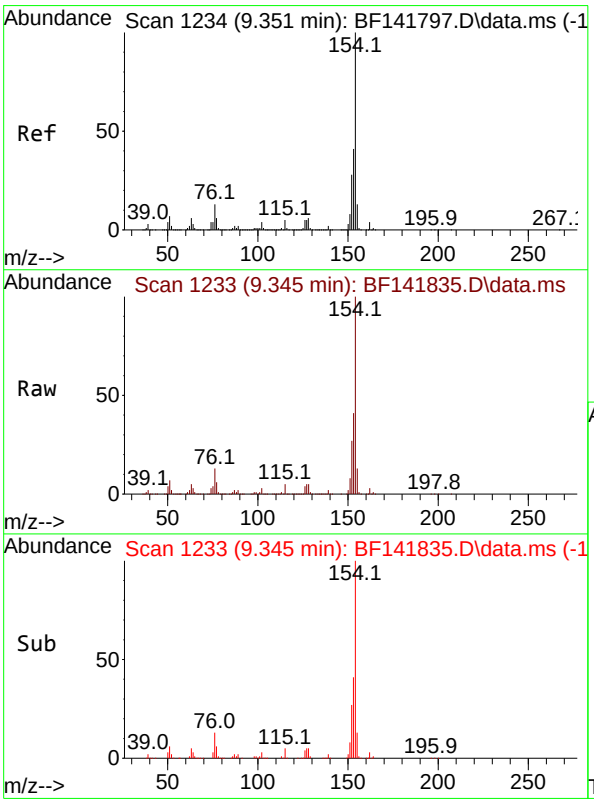
#45
2-Fluorobiphenyl
Concen: 78.861 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2496418

Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.2	43.8
170	23.9	19.7	29.5

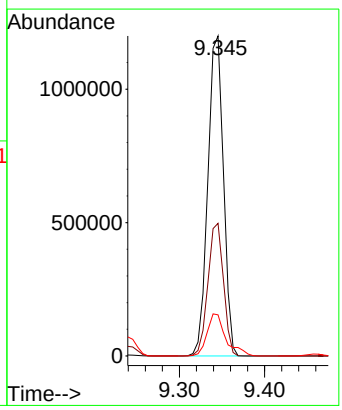


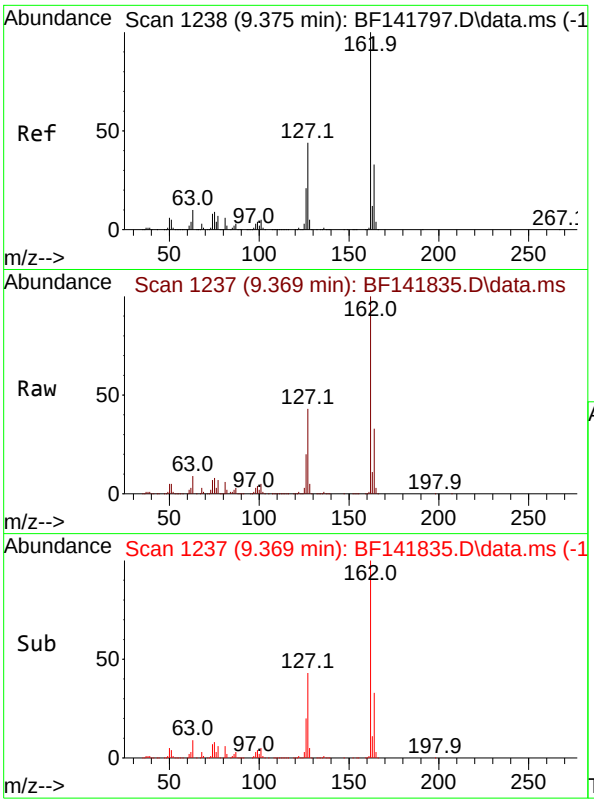


#46
1,1'-Biphenyl
Concen: 39.541 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:154 Resp: 1527684

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.4	61.4
76	12.9	0.0	33.4



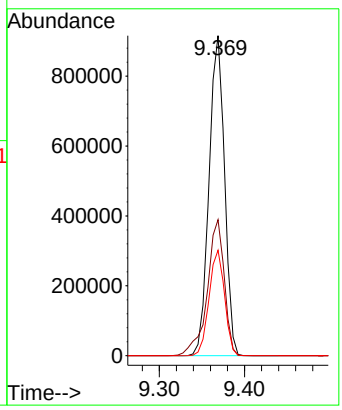


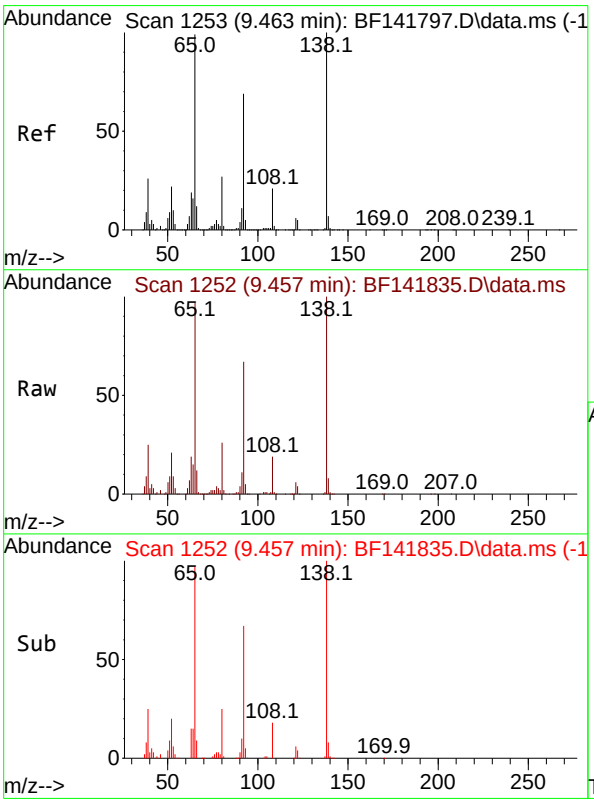
#47
2-Chloronaphthalene
Concen: 40.733 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 1161554

Ion	Ratio	Lower	Upper
162	100		
127	42.5	35.0	52.6
164	32.9	26.6	40.0

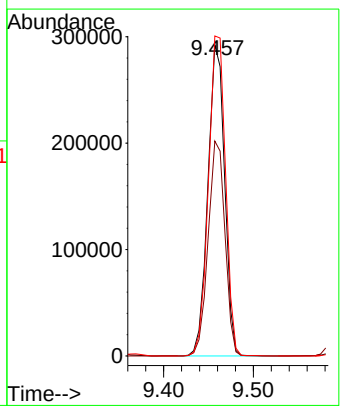


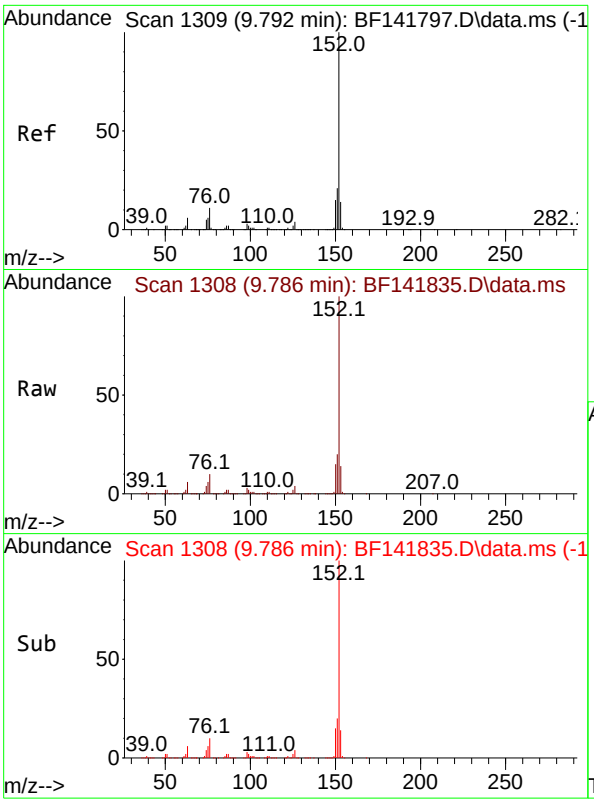


#48
2-Nitroaniline
Concen: 48.579 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion: 65 Resp: 379633

Ion	Ratio	Lower	Upper
65	100		
92	69.0	55.7	83.5
138	102.8	80.6	121.0



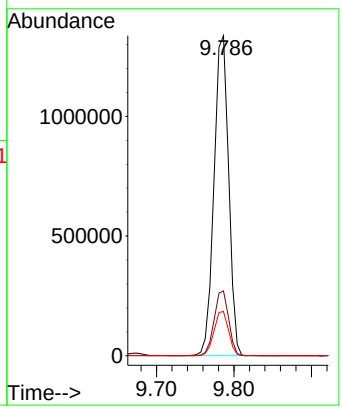


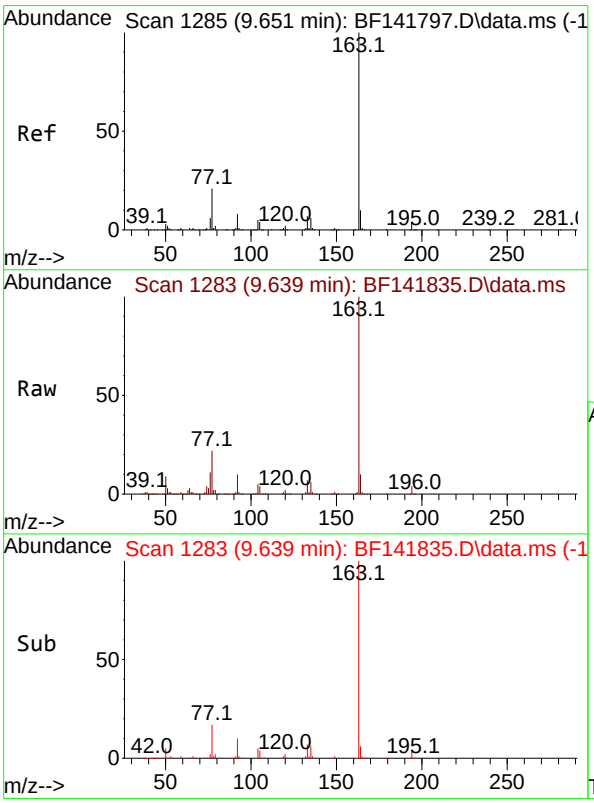
#49
Acenaphthylene
Concen: 40.985 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1752309

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	24.8
153	13.8	11.2	16.8

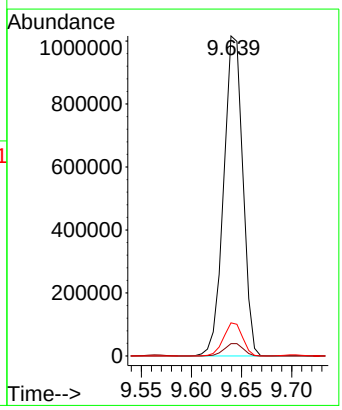


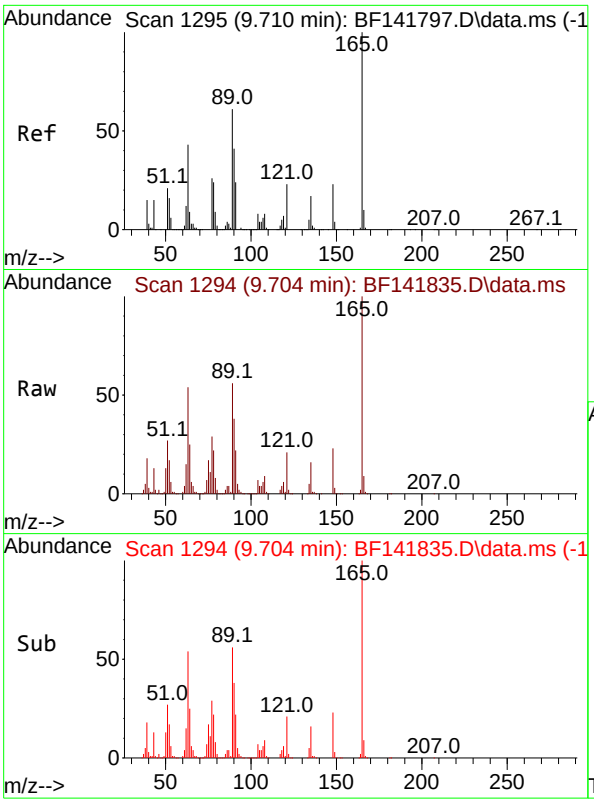


#50
Dimethylphthalate
Concen: 39.595 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:163 Resp: 1345931

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.4	8.4	12.6



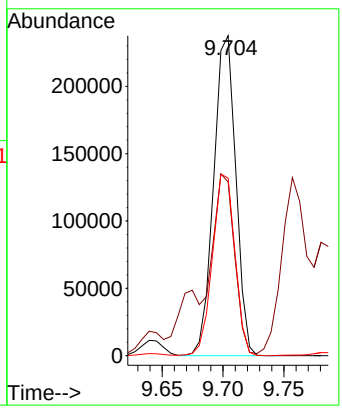


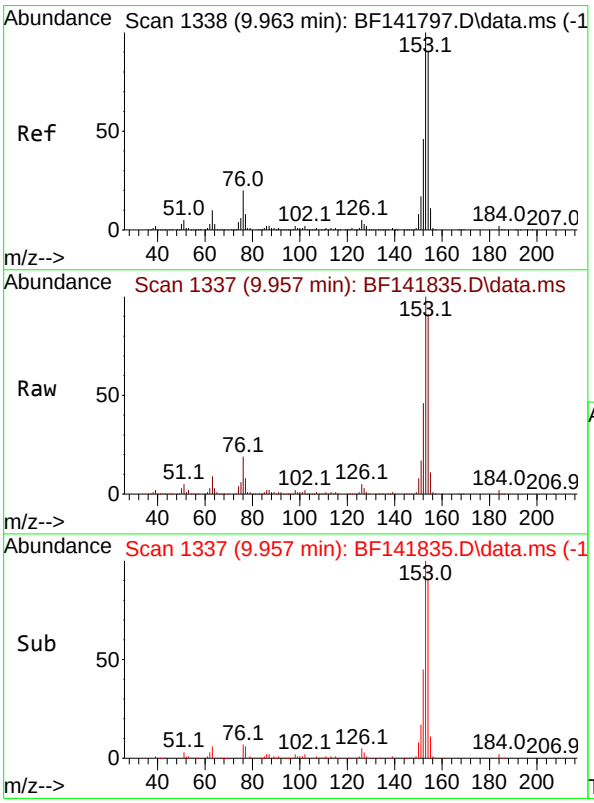
#51
2,6-Dinitrotoluene
Concen: 46.487 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 301676

Ion	Ratio	Lower	Upper
165	100		
63	54.2	49.5	74.3
89	55.5	49.0	73.4

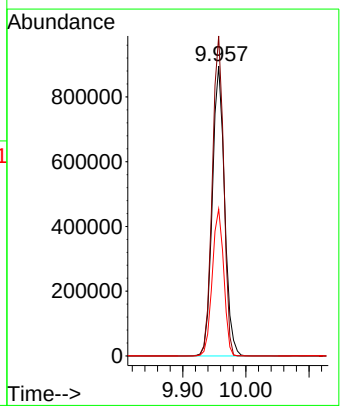


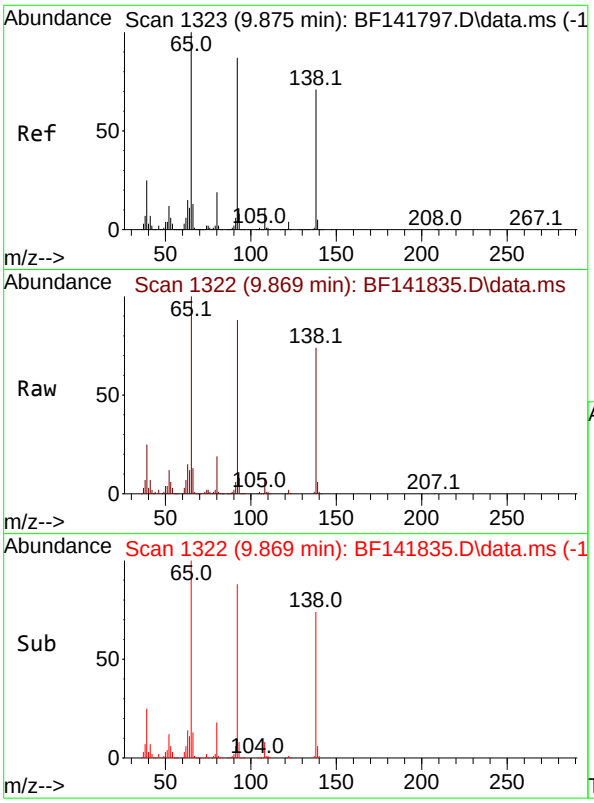


#52
Acenaphthene
Concen: 41.819 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:154 Resp: 1206437

Ion	Ratio	Lower	Upper
154	100		
153	110.4	88.7	133.1
152	50.7	40.9	61.3



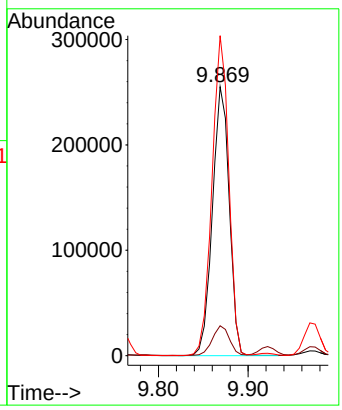


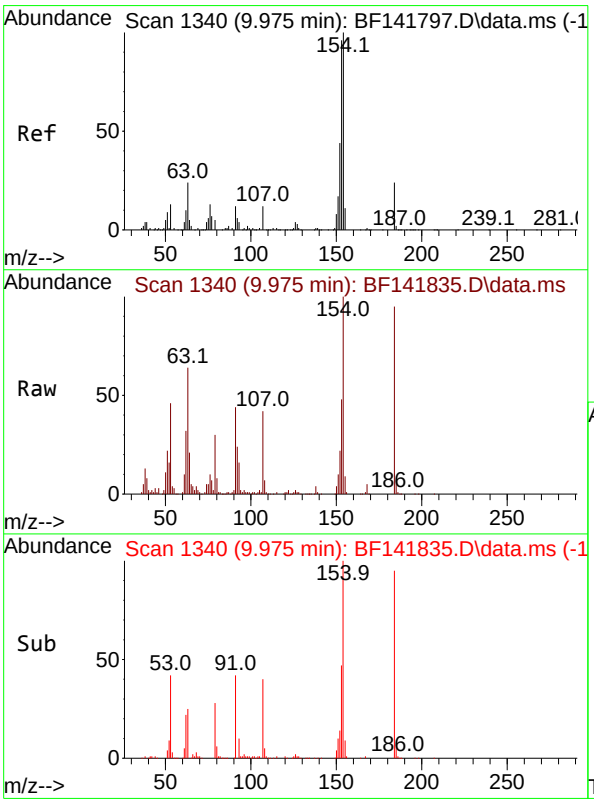
#53
3-Nitroaniline
Concen: 48.006 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 332516

Ion	Ratio	Lower	Upper
138	100		
108	11.1	12.7	19.1#
92	119.0	97.9	146.9

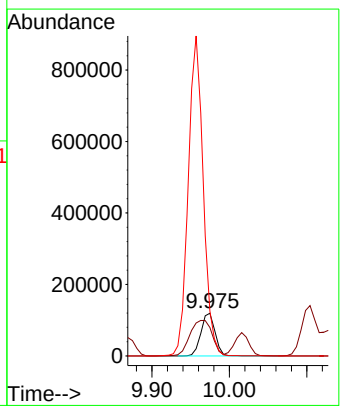


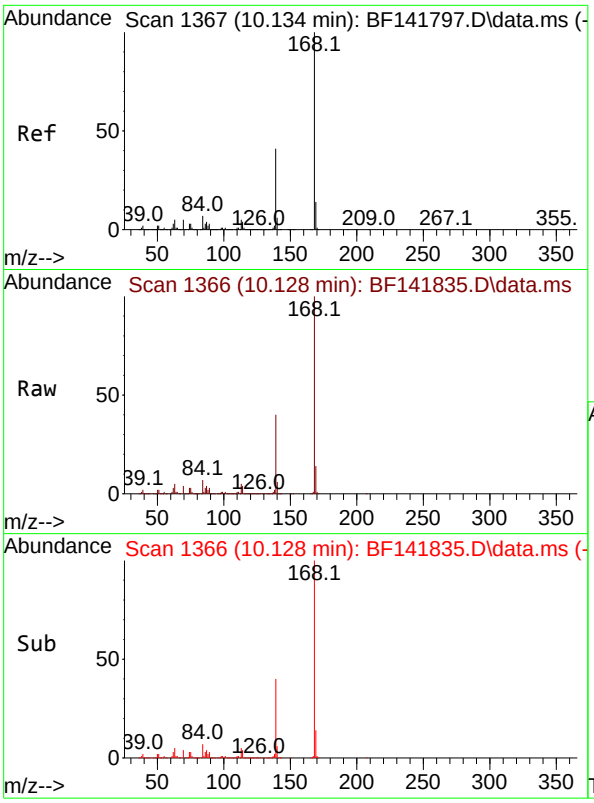


#54
2,4-Dinitrophenol
Concen: 57.060 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:184 Resp: 151609

Ion	Ratio	Lower	Upper
184	100		
63	66.7	79.0	118.6#
154	105.0	335.8	503.8#



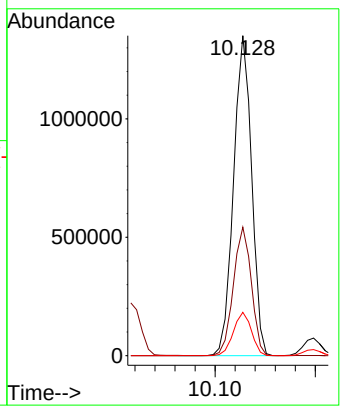


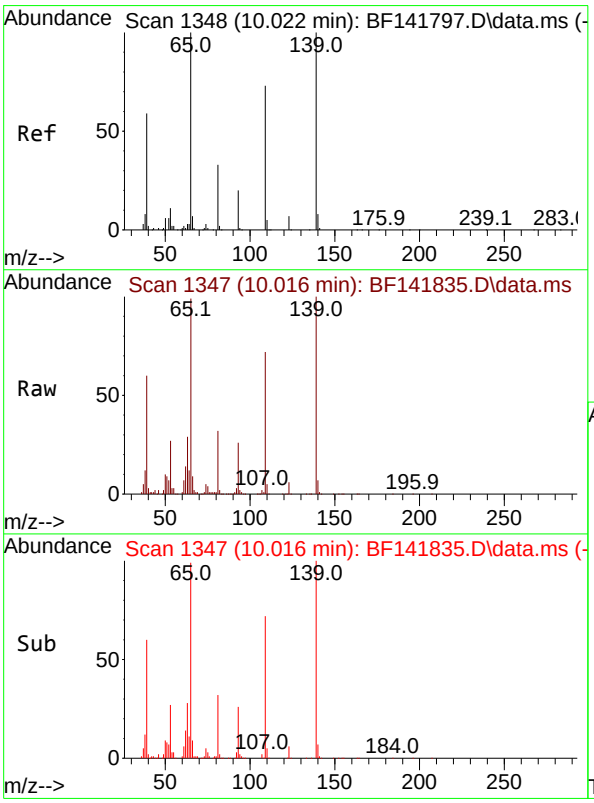
#55
Dibenzofuran
Concen: 40.368 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1695006

Ion	Ratio	Lower	Upper
168	100		
139	40.2	32.9	49.3
169	13.5	11.1	16.7

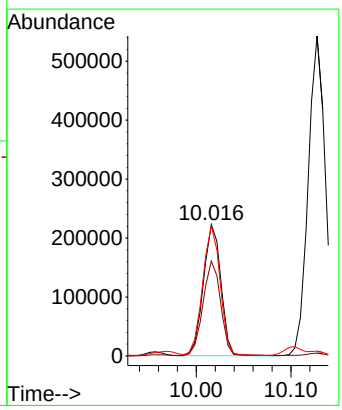


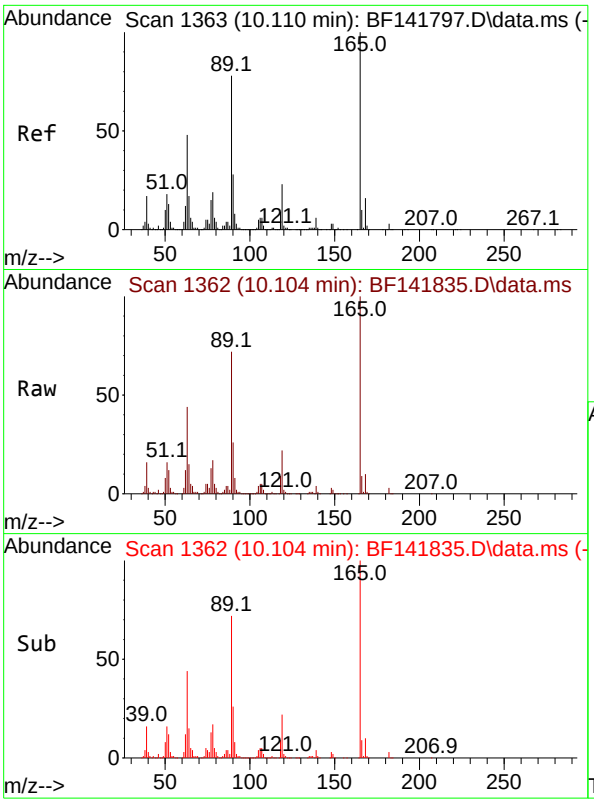


#56
4-Nitrophenol
Concen: 57.194 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:139 Resp: 287143

Ion	Ratio	Lower	Upper
139	100		
109	72.2	53.4	93.4
65	98.9	82.1	122.1



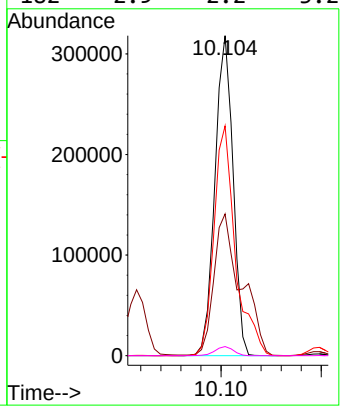


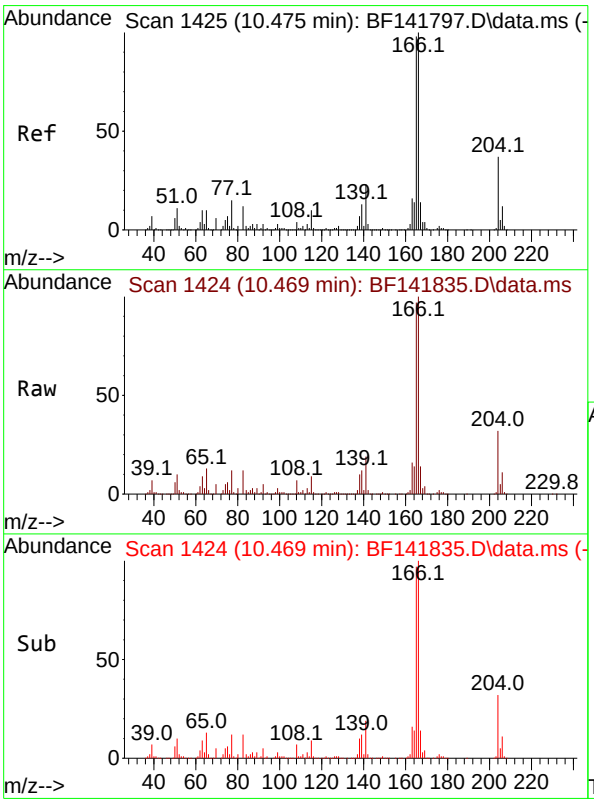
#57
2,4-Dinitrotoluene
Concen: 49.981 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 398234

Ion	Ratio	Lower	Upper
165	100		
63	44.3	38.8	58.2
89	71.8	62.6	94.0
182	2.9	2.2	3.2

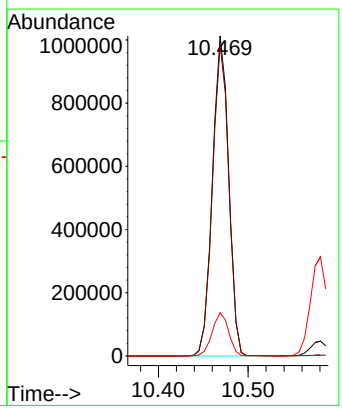


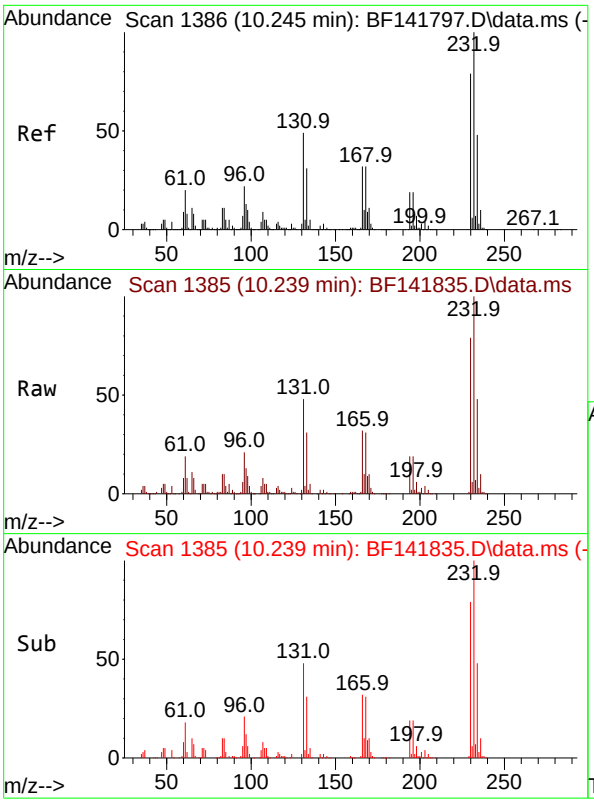


#58
Fluorene
Concen: 40.458 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:166 Resp: 1272485

Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.6	117.8
167	13.6	11.0	16.4



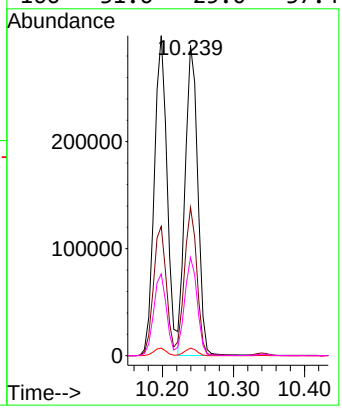


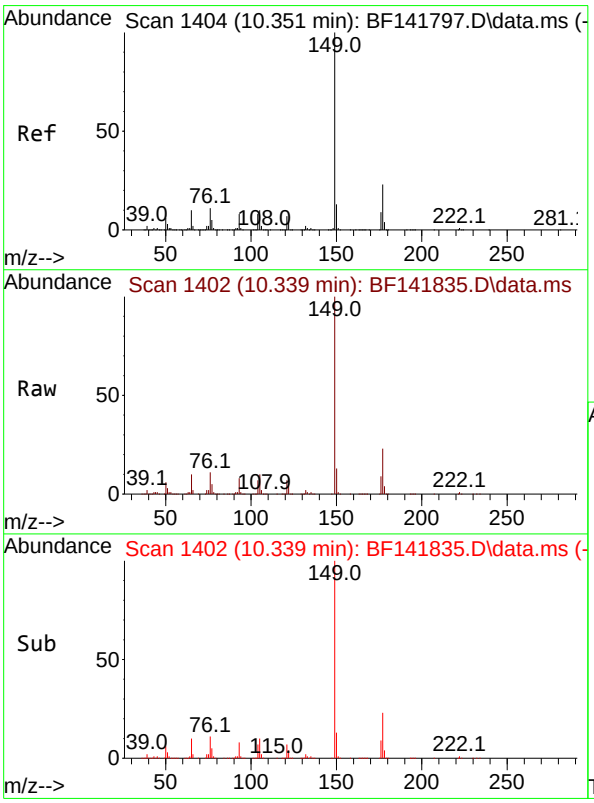
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.711 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 356479

Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.8	56.8
130	2.4	2.0	3.0
166	31.6	25.0	37.4

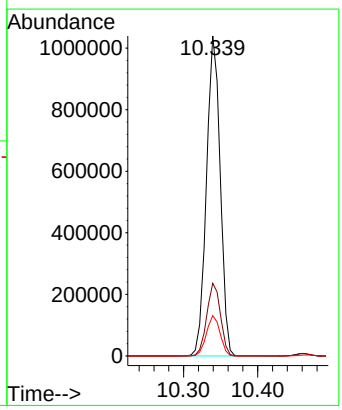


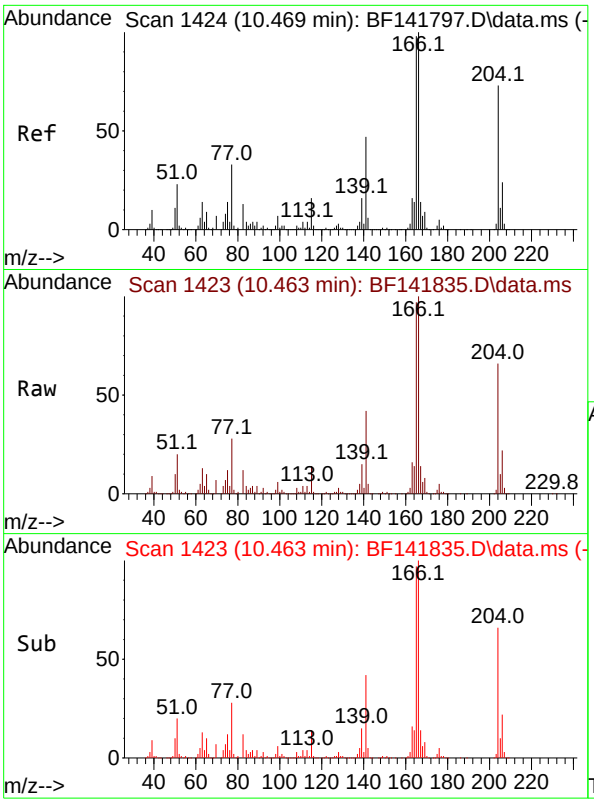


#60
Diethylphthalate
Concen: 39.332 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 1340314

Ion	Ratio	Lower	Upper
149	100		
177	22.7	18.3	27.5
150	12.6	10.3	15.5



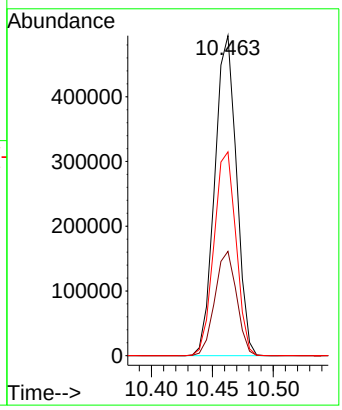


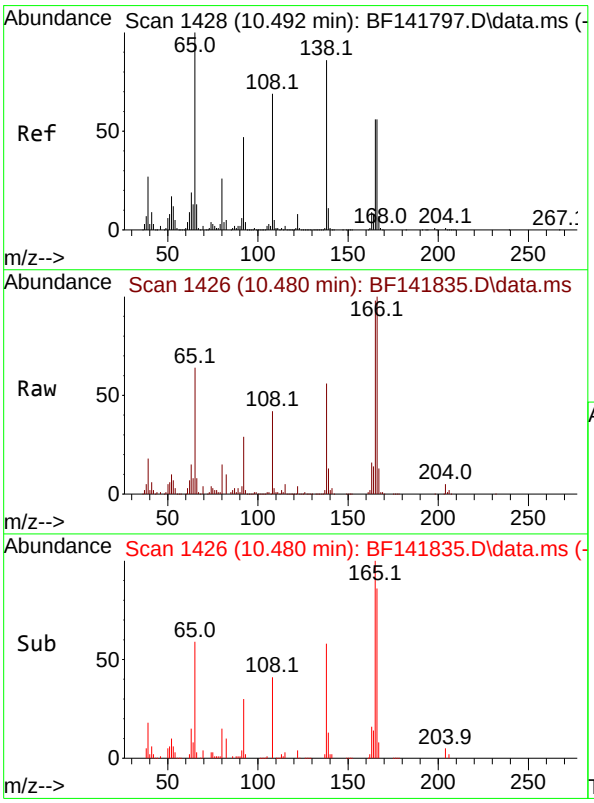
#61
4-Chlorophenyl-phenylether
Concen: 39.043 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 615259

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.2	39.4
141	63.7	51.7	77.5

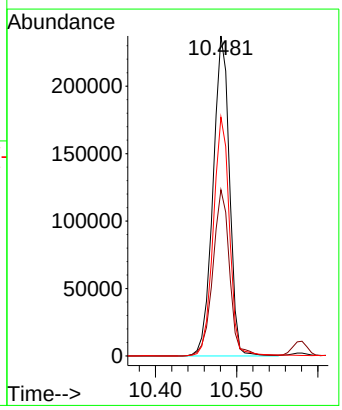


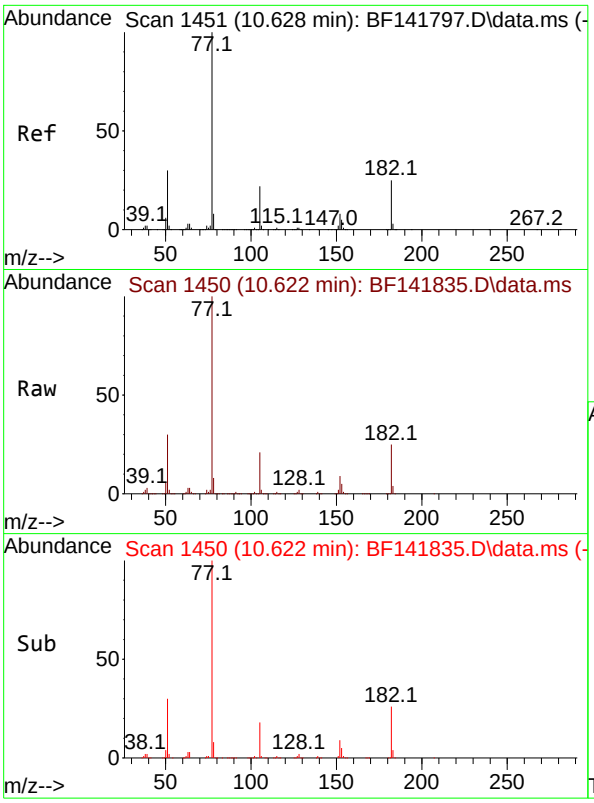


#62
4-Nitroaniline
Concen: 57.675 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:138 Resp: 334806

Ion	Ratio	Lower	Upper
138	100		
92	52.0	34.9	74.9
108	74.6	59.6	99.6



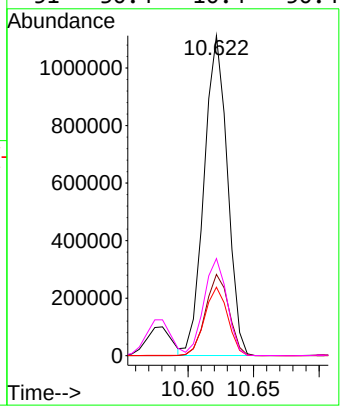


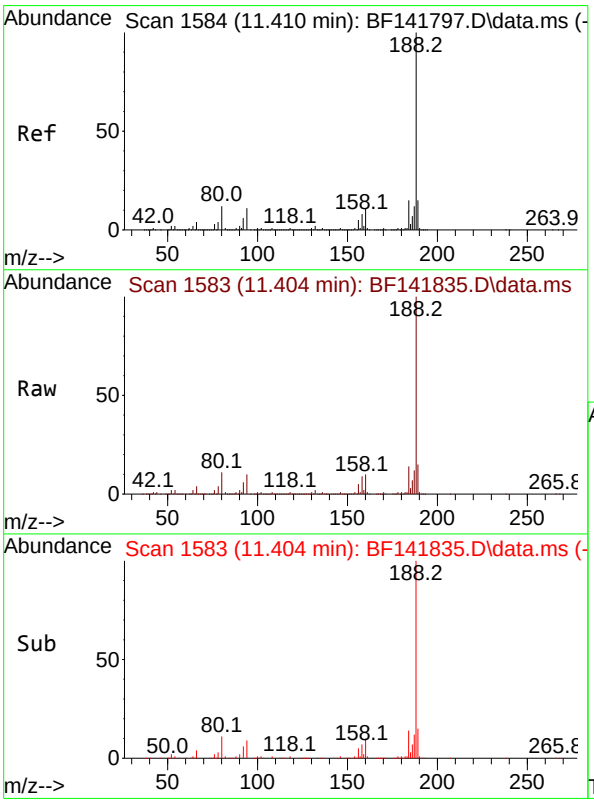
#63
Azobenzene
Concen: 38.283 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1373599

Ion	Ratio	Lower	Upper
77	100		
182	25.4	4.2	44.2
105	21.4	1.5	41.5
51	30.4	10.4	50.4

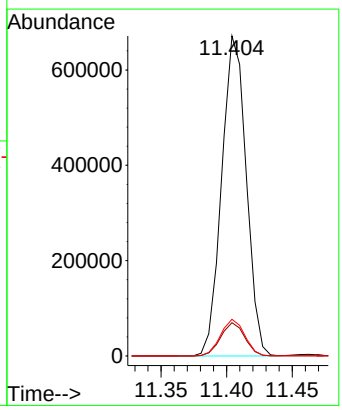


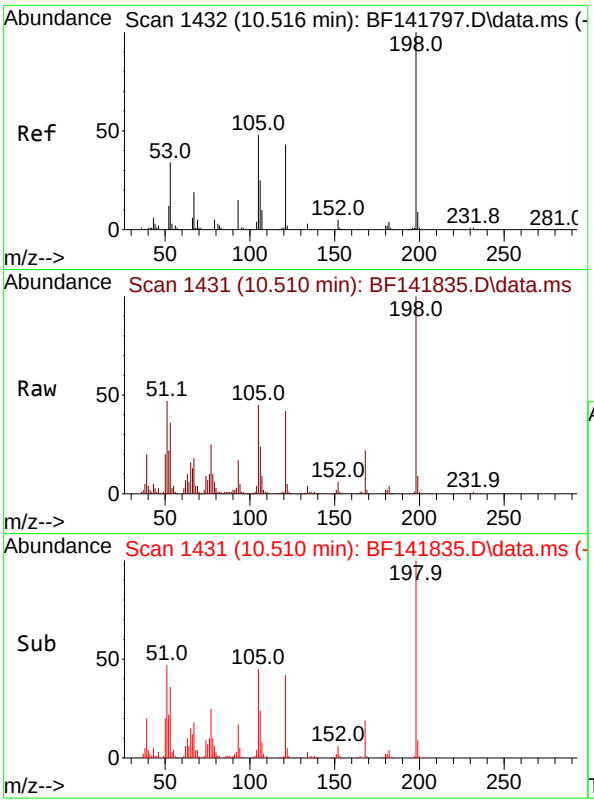


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:188 Resp: 873644

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.9	13.3
80	11.4	9.7	14.5



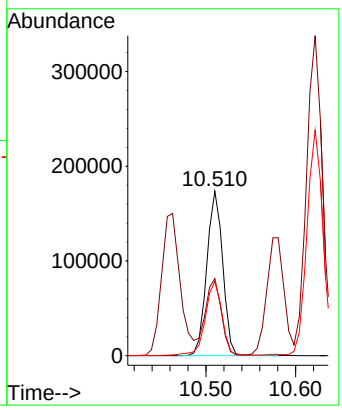


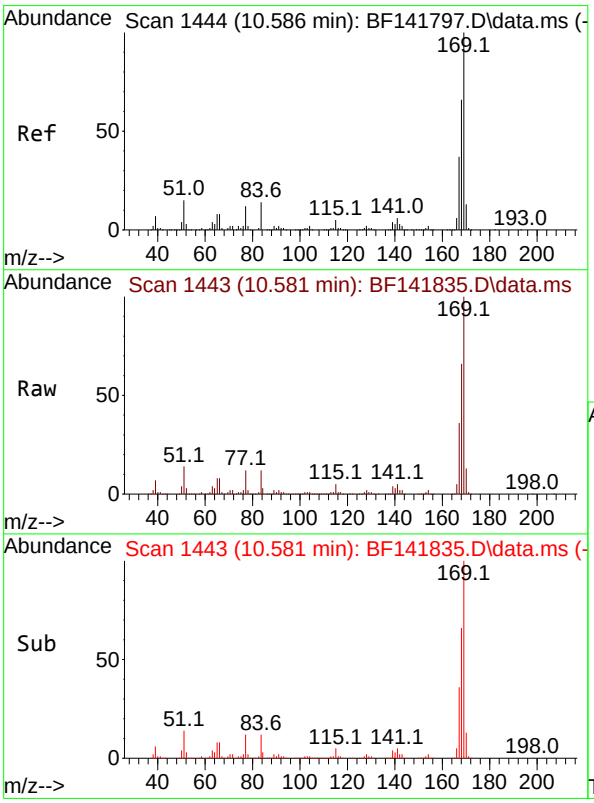
#65
4,6-Dinitro-2-methylphenol
Concen: 51.268 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 213658

Ion	Ratio	Lower	Upper
198	100		
51	46.9	32.1	72.1
105	45.1	28.5	68.5

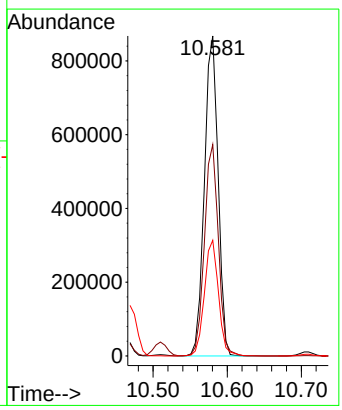


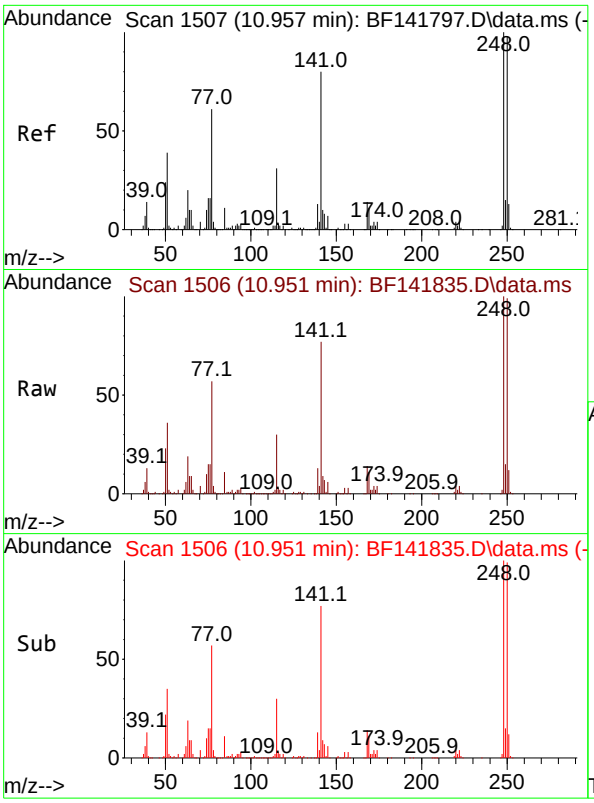


#66
n-Nitrosodiphenylamine
Concen: 38.849 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:169 Resp: 1114485

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.0	79.6
167	36.2	29.3	43.9



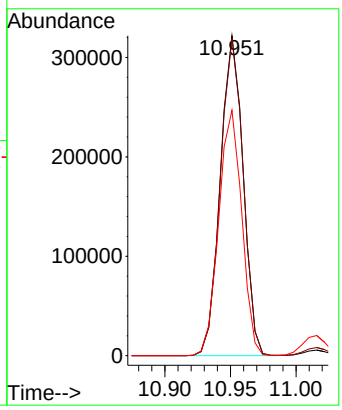


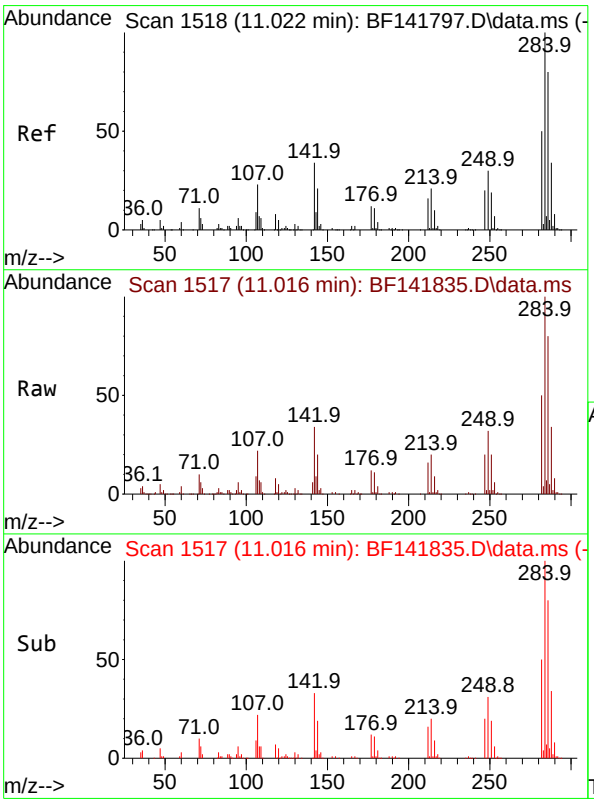
#67
4-Bromophenyl-phenylether
Concen: 38.195 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 389763

Ion	Ratio	Lower	Upper
248	100		
250	99.0	78.1	117.1
141	76.7	64.3	96.5

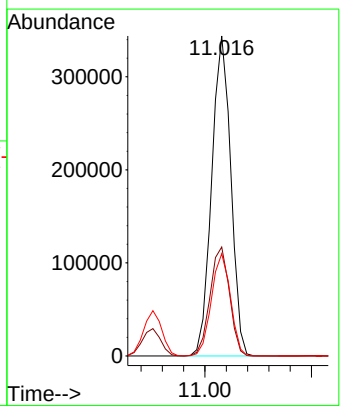


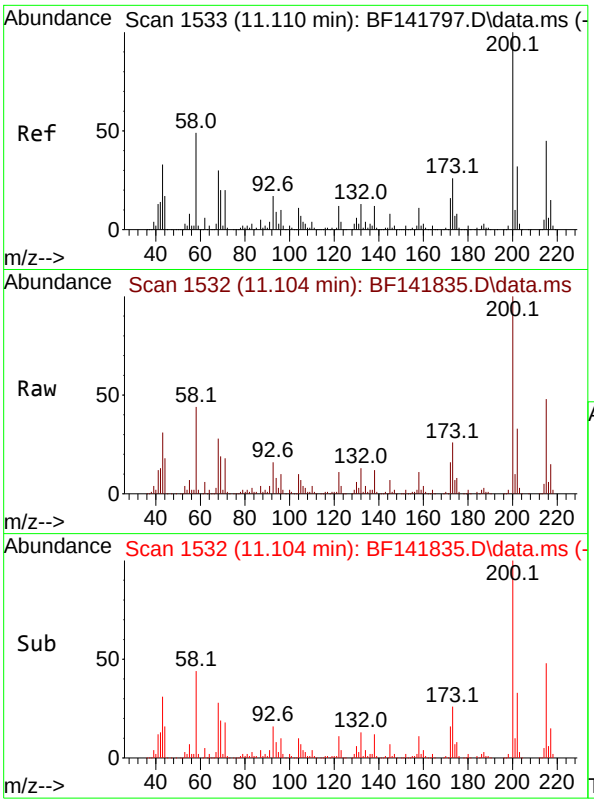


#68
Hexachlorobenzene
Concen: 39.651 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:284 Resp: 427268

Ion	Ratio	Lower	Upper
284	100		
142	34.1	28.2	42.2
249	31.9	25.5	38.3



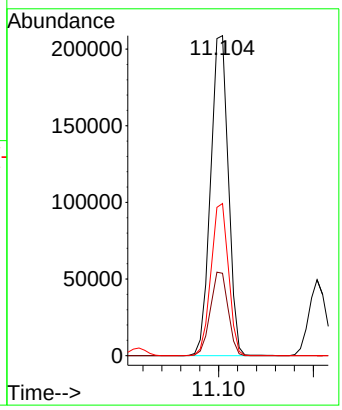


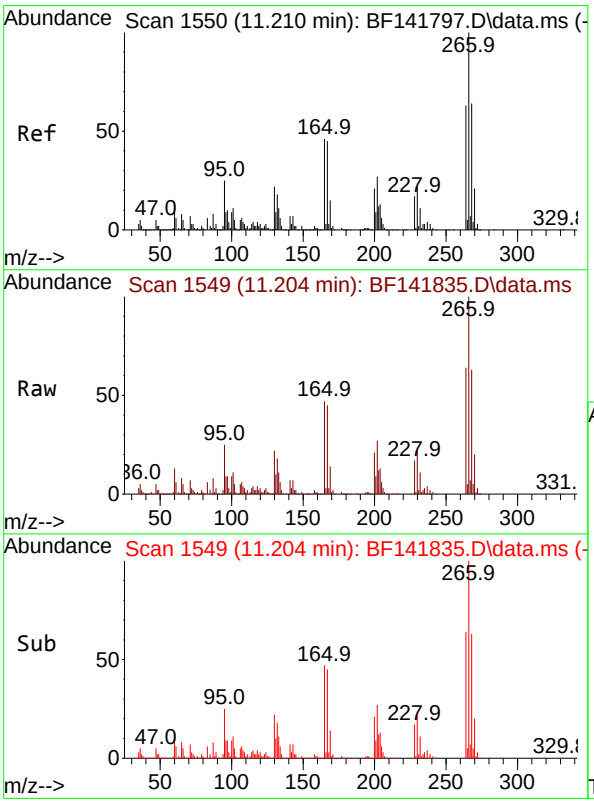
#69
Atrazine
Concen: 34.483 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 272033

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.6	45.6
215	47.6	25.3	65.3

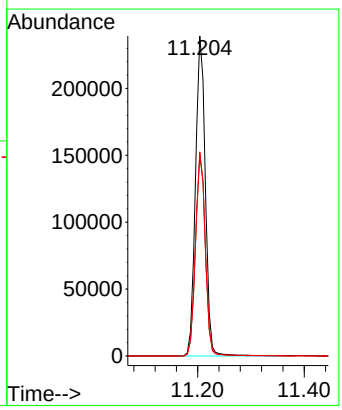


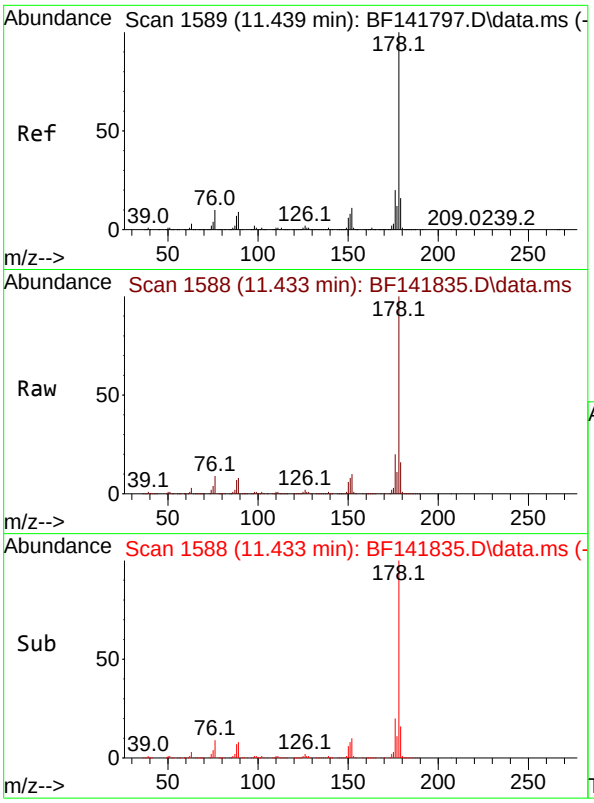


#70
Pentachlorophenol
Concen: 45.085 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:266 Resp: 308128

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.9	76.3
264	63.8	50.2	75.4



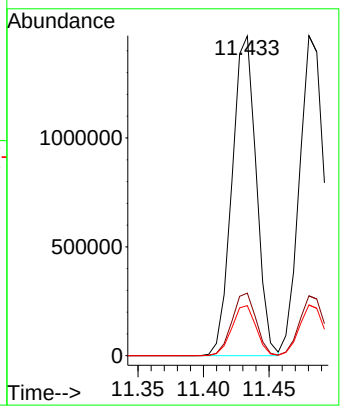


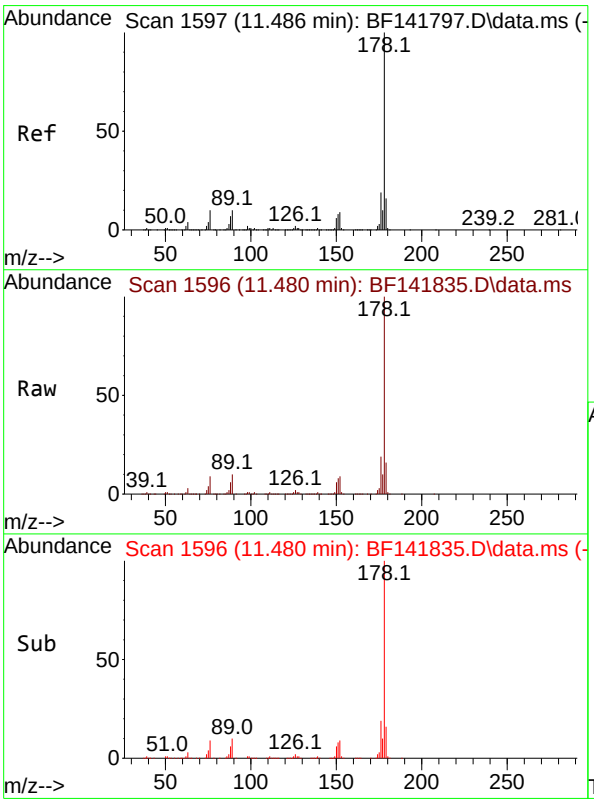
#71
Phenanthrene
Concen: 40.455 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1890507

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	15.7	12.6	19.0

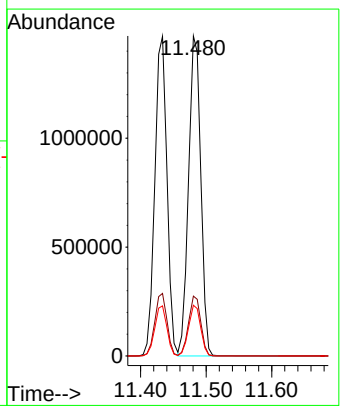


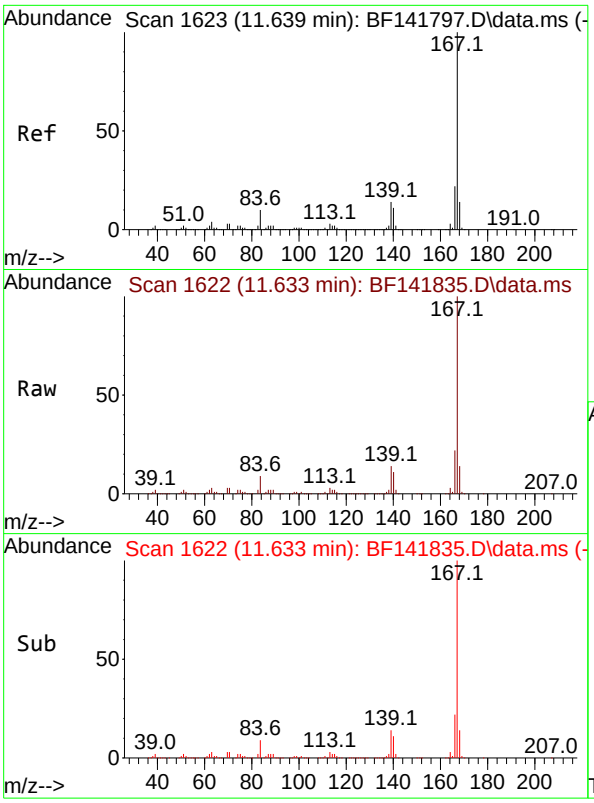


#72
Anthracene
Concen: 40.598 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:178 Resp: 1901419

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.0
179	15.8	12.8	19.2



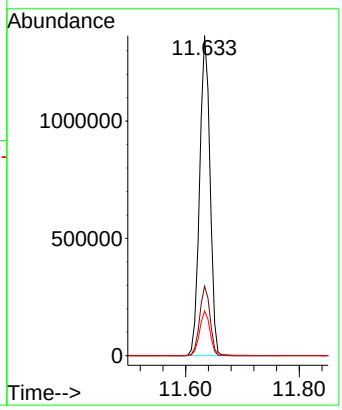


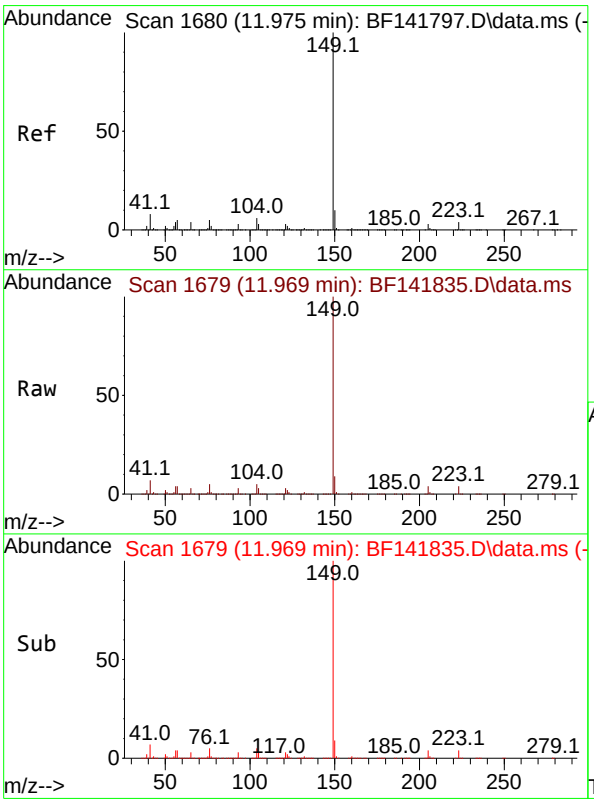
#73
Carbazole
Concen: 41.829 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1730017

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	14.0	11.3	16.9

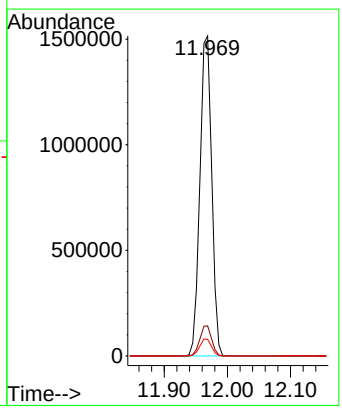


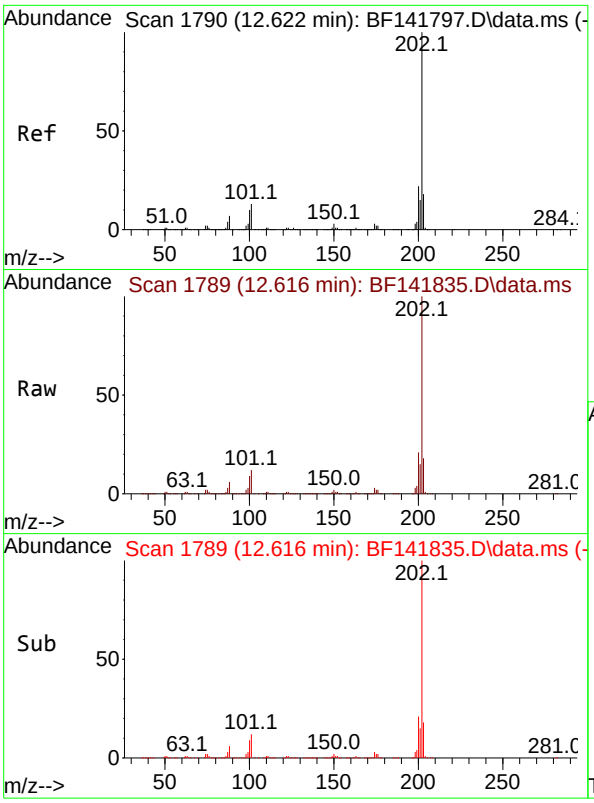


#74
Di-n-butylphthalate
Concen: 37.694 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 1976148

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.7	11.5
104	5.2	4.4	6.6



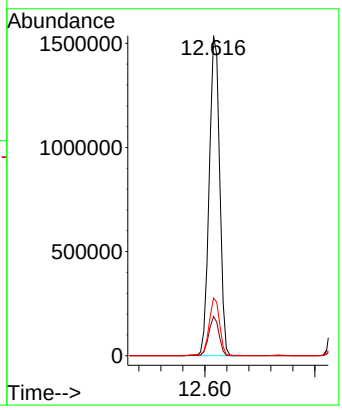


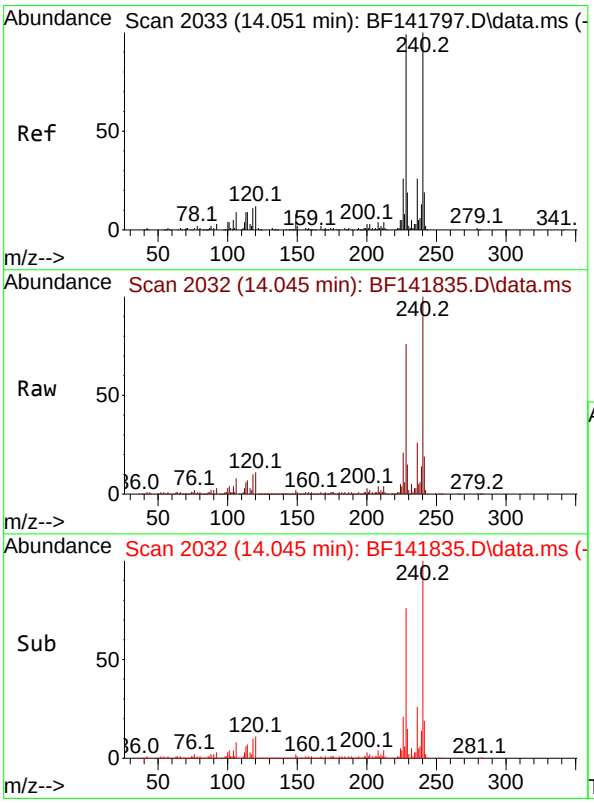
#75
Fluoranthene
Concen: 42.219 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 2021622

Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	32.8
203	18.0	0.0	38.0

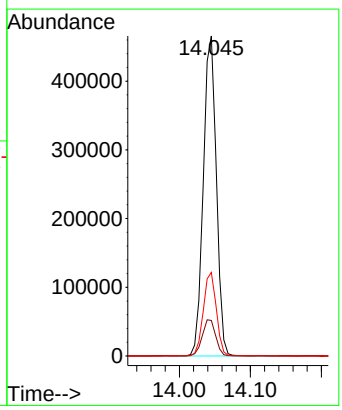


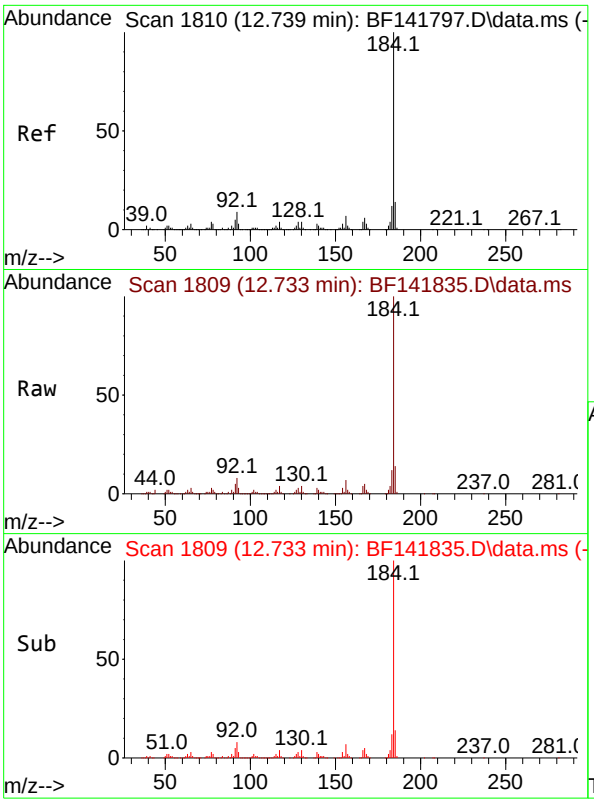


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:240 Resp: 595765

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.7	14.5
236	26.1	21.0	31.4



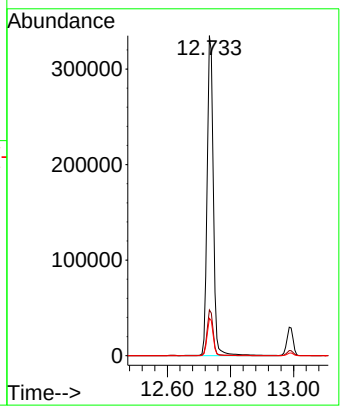


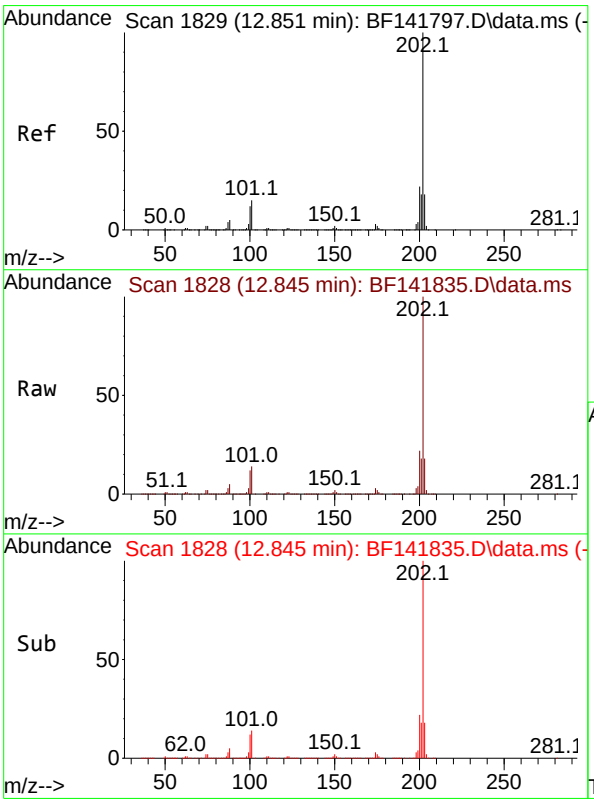
#77
Benzidine
Concen: 60.734 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 455419

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.6	17.4
183	11.7	9.4	14.0

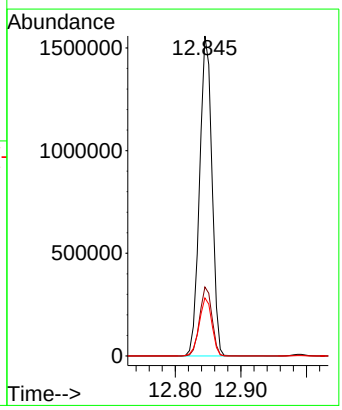


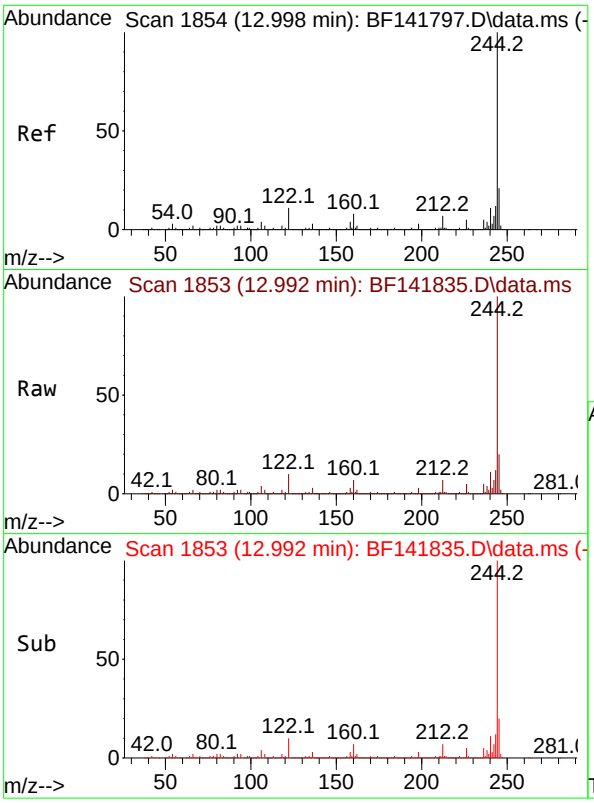


#78
Pyrene
Concen: 39.773 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:202 Resp: 2051898

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.0
203	18.2	14.6	22.0



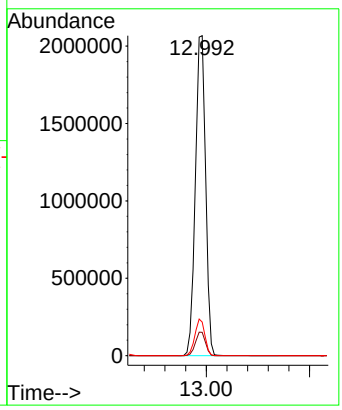


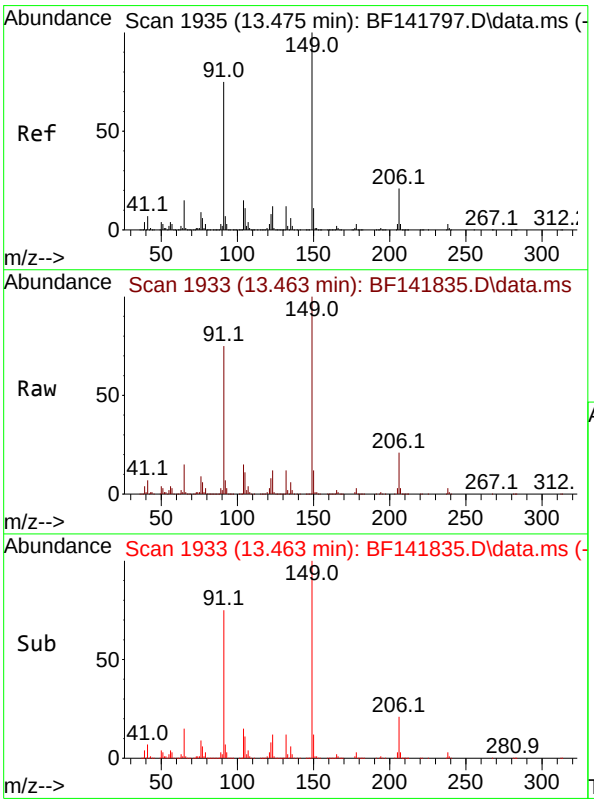
#79
Terphenyl-d14
Concen: 76.987 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 2834884

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	10.5	9.0	13.6

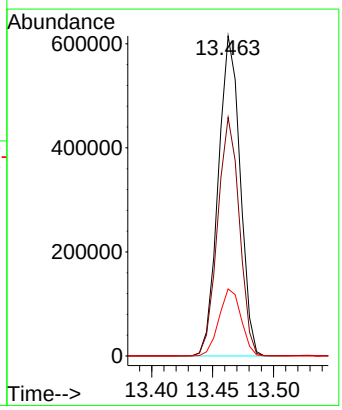


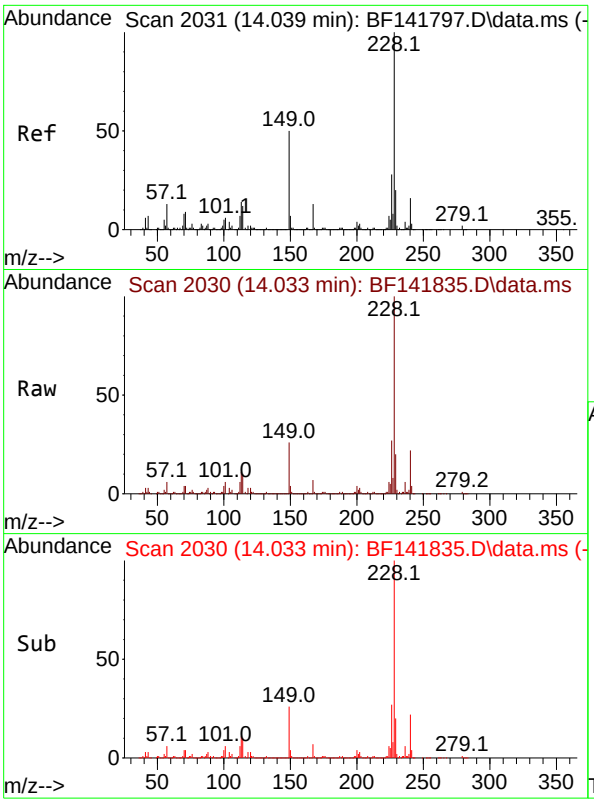


#80
Butylbenzylphthalate
Concen: 41.053 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 769482

Ion	Ratio	Lower	Upper
149	100		
91	74.5	60.1	90.1
206	20.9	16.8	25.2



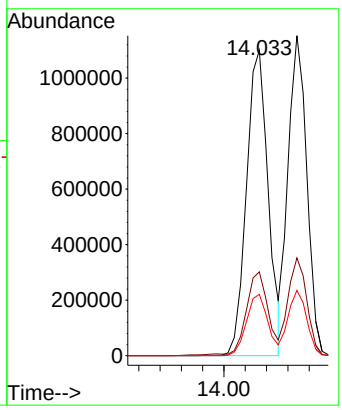


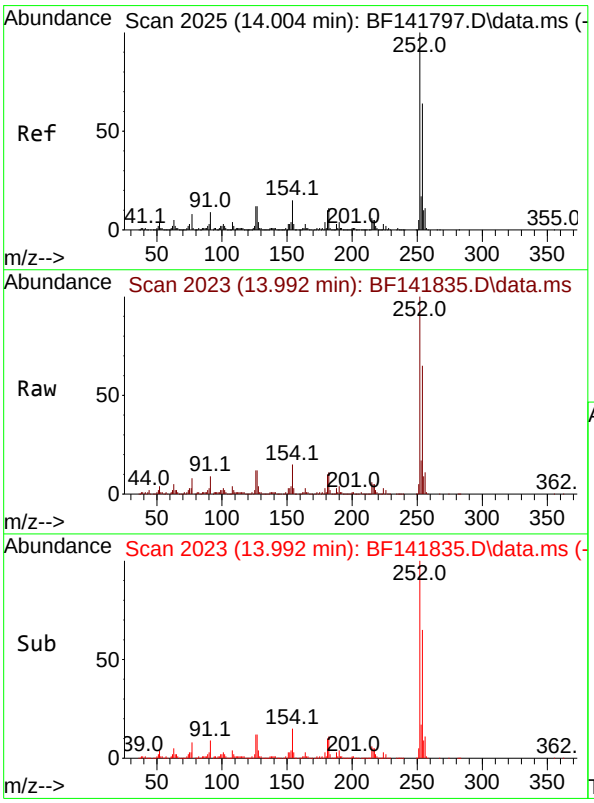
#81
Benzo(a)anthracene
Concen: 39.619 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1559065

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.1	33.1
229	20.1	16.1	24.1

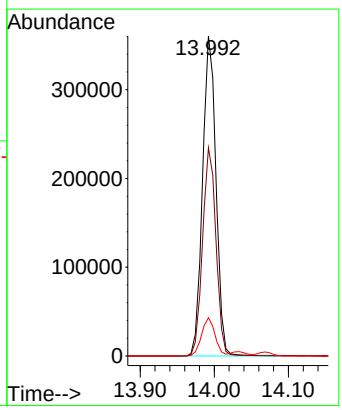


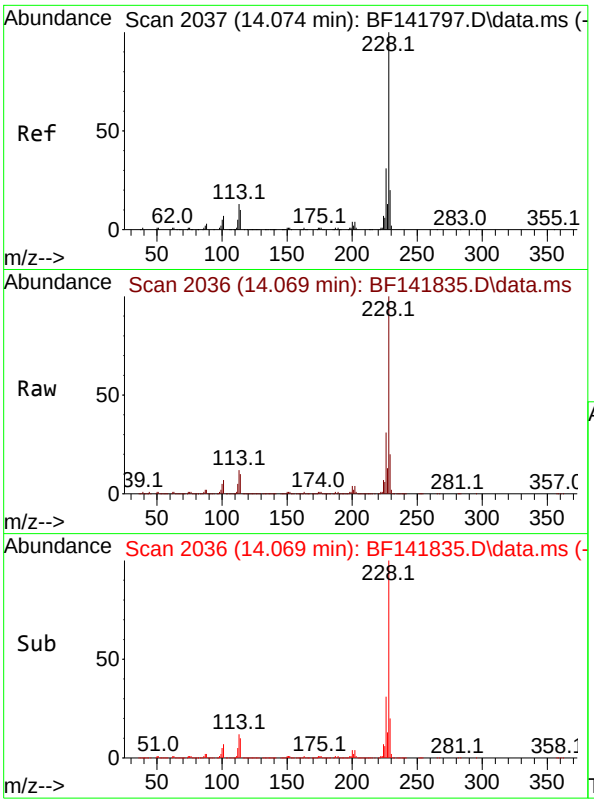


#82
3,3'-Dichlorobenzidine
Concen: 40.293 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 454914

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.4	77.0
126	12.0	9.8	14.6



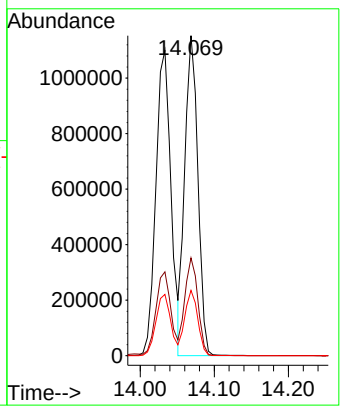


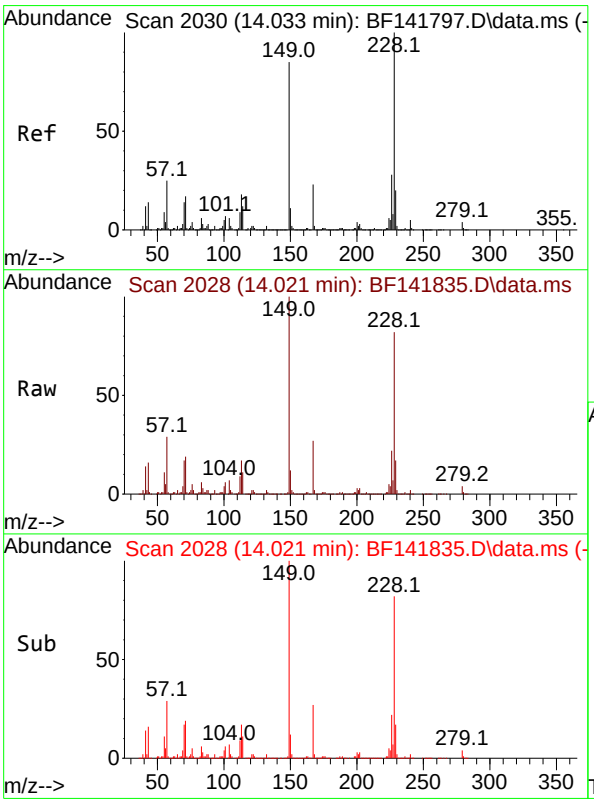
#83
Chrysene
Concen: 39.076 ng
RT: 14.069 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1417476

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.6	37.0
229	20.4	16.1	24.1

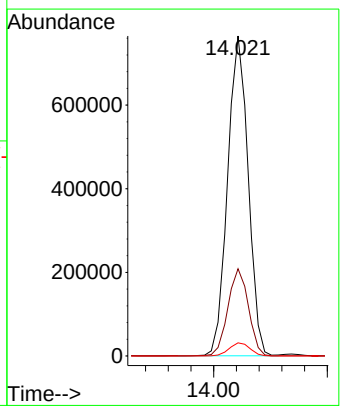


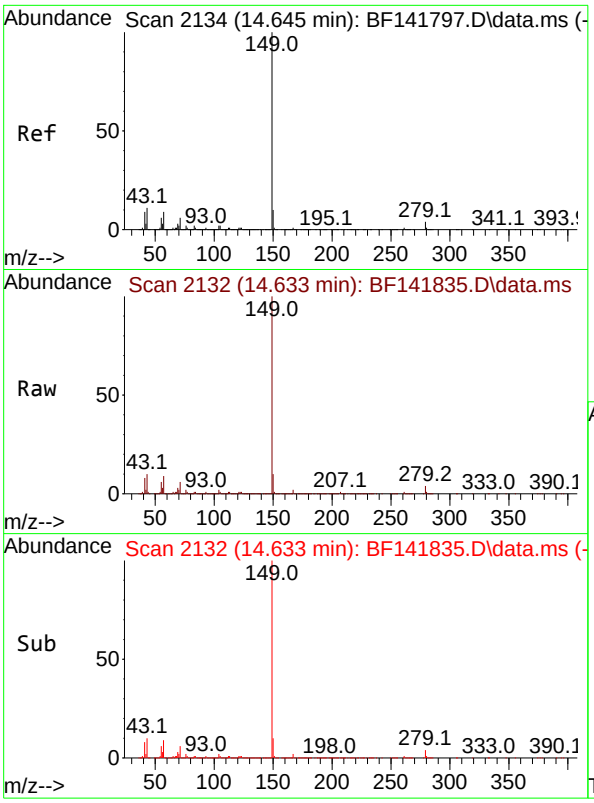


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.198 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:149 Resp: 961512

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.2	31.8
279	4.1	3.3	4.9



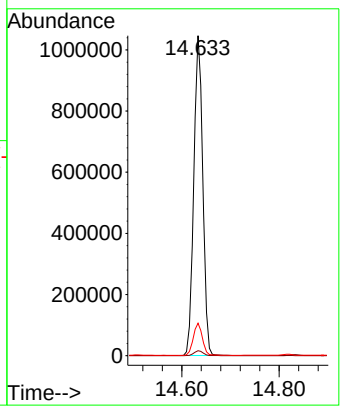


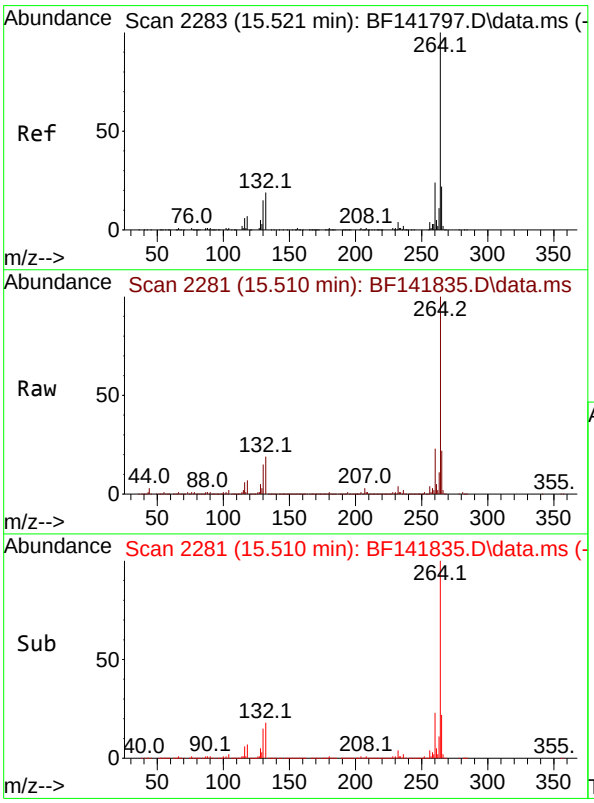
#85
Di-n-octyl phthalate
Concen: 38.592 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1348427

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	10.1	8.6	12.8

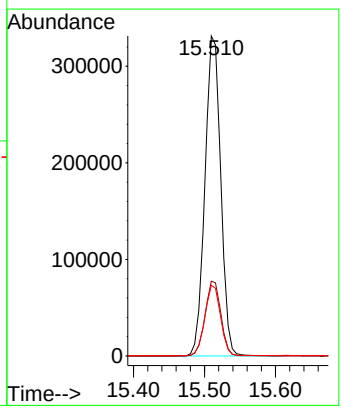


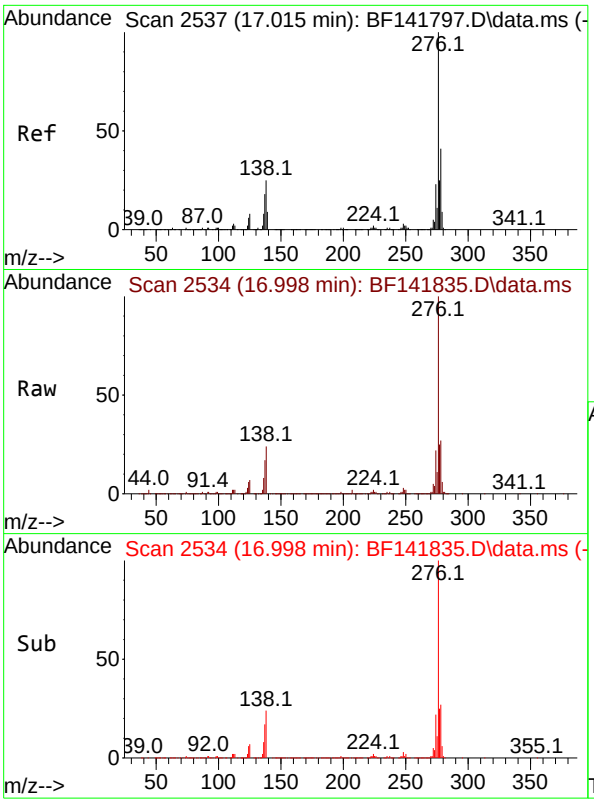


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:264 Resp: 513355

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.9	28.3
265	22.1	17.4	26.0



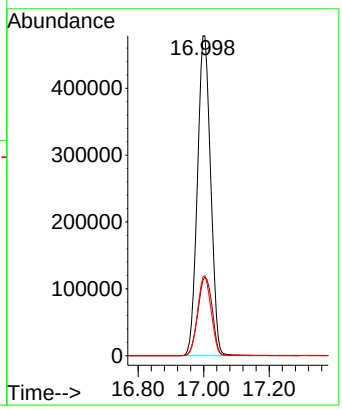


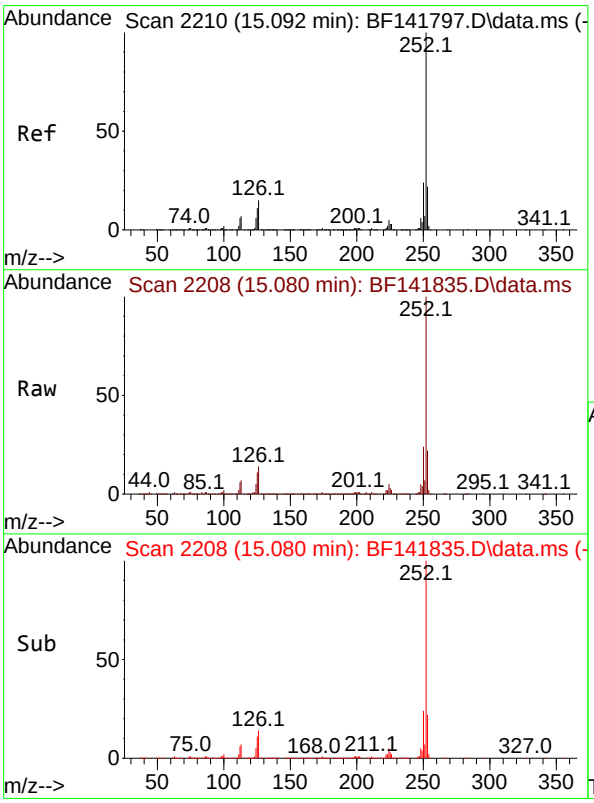
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.147 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1345046

Ion	Ratio	Lower	Upper
276	100		
138	26.6	22.5	33.7
277	25.4	20.3	30.5

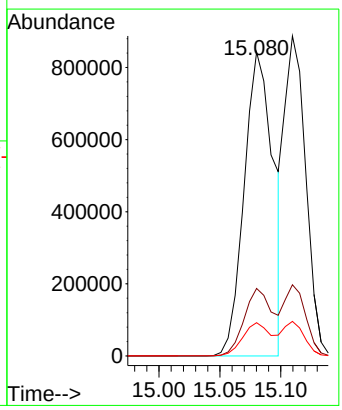


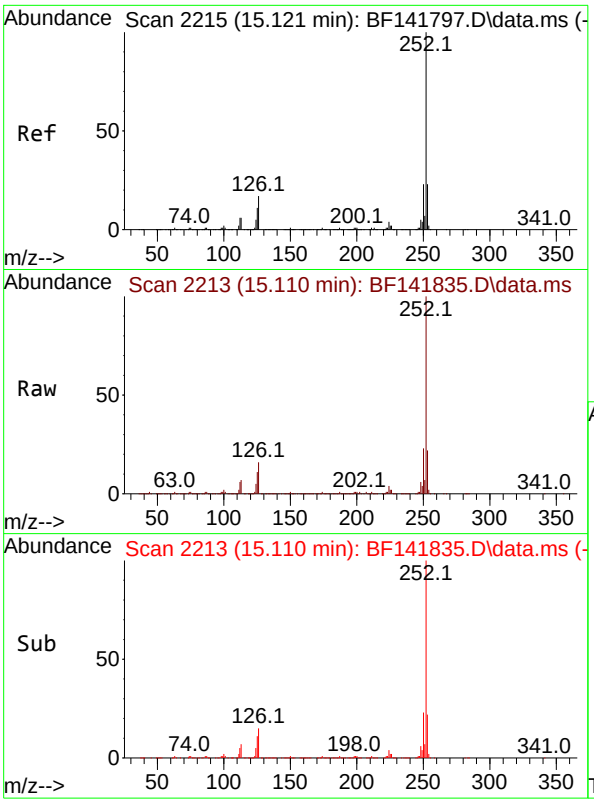


#88
Benzo(b)fluoranthene
Concen: 40.178 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 1404956

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	11.0	8.6	13.0



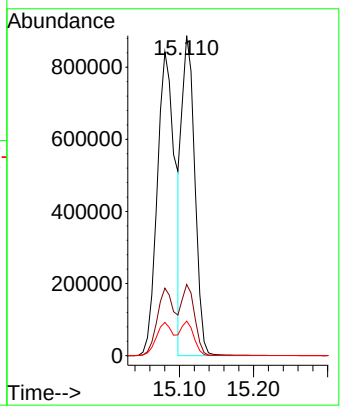


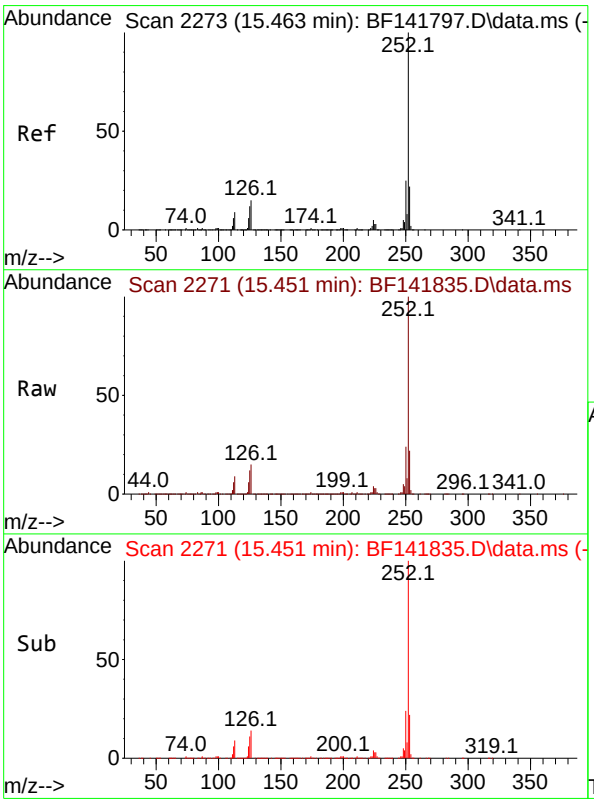
#89
Benzo(k)fluoranthene
Concen: 36.524 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 1085559

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.8	8.8	13.2

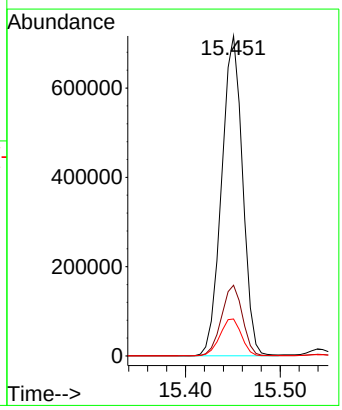


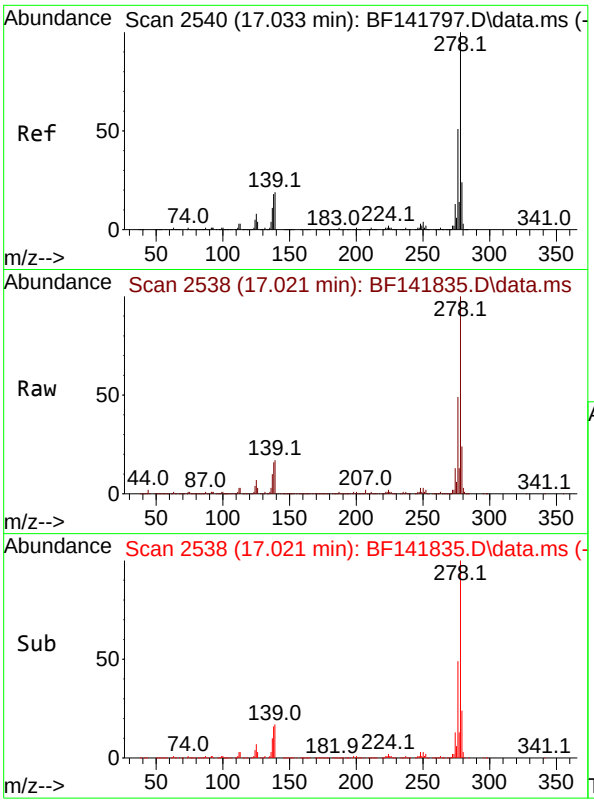


#90
Benzo(a)pyrene
Concen: 39.322 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:252 Resp: 1102749

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	11.5	9.4	14.2



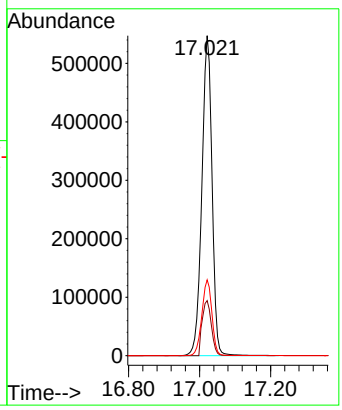


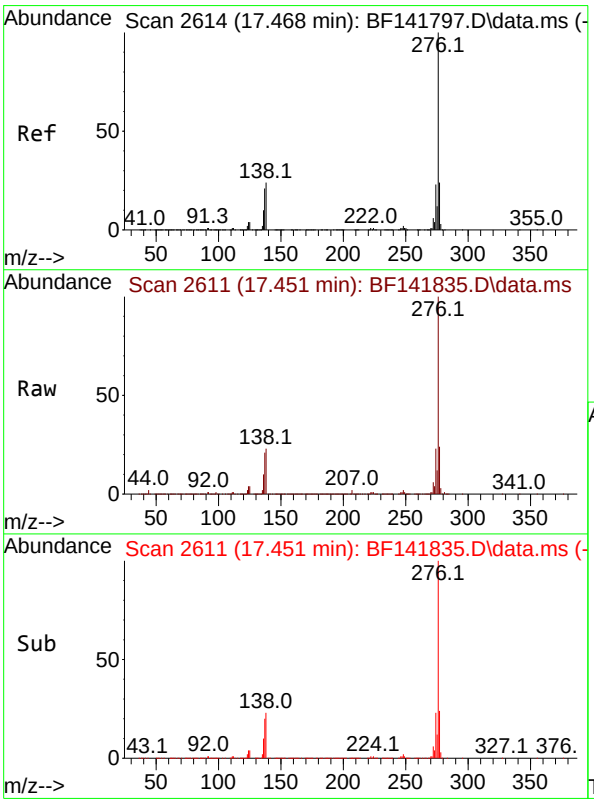
#91
Dibenzo(a,h)anthracene
Concen: 41.050 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 1095326

Ion	Ratio	Lower	Upper
278	100		
139	17.2	14.9	22.3
279	23.7	19.3	28.9

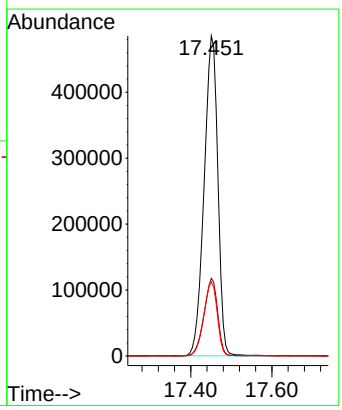




#92
Benzo(g,h,i)perylene
Concen: 41.520 ng
RT: 17.451 min Scan# 2611
Delta R.T. -0.018 min
Lab File: BF141835.D
Acq: 05 Mar 2025 10:09

Tgt Ion:276 Resp: 1134958

Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.4	29.0
138	23.2	19.3	28.9



Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	86	0.00
2		1,4-Dioxane	0.568	0.571	-0.5	82	0.00
3		Pyridine	1.414	1.429	-1.1	83	0.00
4		n-Nitrosodimethylamine	0.680	0.693	-1.9	81	-0.01
5	S	2-Fluorophenol	1.252	1.263	-0.9	84	0.00
6		Aniline	1.695	1.679	0.9	79	0.00
7	S	Phenol-d6	1.630	1.613	1.0	82	0.00
8		2-Chlorophenol	1.355	1.354	0.1	82	0.00
9		Benzaldehyde	0.948	0.834	12.0	73	0.00
10	C	Phenol	1.742	1.734	0.5	82	0.00
11		bis(2-Chloroethyl)ether	1.328	1.232	7.2	79	0.00
12		1,3-Dichlorobenzene	1.451	1.431	1.4	81	0.00
13	C	1,4-Dichlorobenzene	1.462	1.450	0.8	82	0.00
14		1,2-Dichlorobenzene	1.365	1.348	1.2	82	0.00
15		Benzyl Alcohol	1.303	1.272	2.4	80	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	1.771	12.2	73	0.00
17		2-Methylphenol	1.118	1.094	2.1	80	0.00
18		Hexachloroethane	0.547	0.522	4.6	77	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	0.955	10.9	75	0.00
20		3+4-Methylphenols	1.392	1.384	0.6	82	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00
22		Acetophenone	0.487	0.480	1.4	79	0.00
23	S	Nitrobenzene-d5	0.313	0.371	-18.5	89	0.00
24		Nitrobenzene	0.335	0.375	-11.9	84	0.00
25		Isophorone	0.672	0.633	5.8	76	0.00
26	C	2-Nitrophenol	0.127	0.179	-40.9#	102	0.00
27		2,4-Dimethylphenol	0.247	0.248	-0.4	80	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.395	7.9	74	0.00
29	C	2,4-Dichlorophenol	0.285	0.291	-2.1	80	0.00
30		1,2,4-Trichlorobenzene	0.312	0.312	0.0	80	0.00
31		Naphthalene	1.028	1.017	1.1	80	0.00
32		Benzoic acid	0.179	0.248	-38.5#	106	-0.01
33		4-Chloroaniline	0.377	0.378	-0.3	81	0.00
34	C	Hexachlorobutadiene	0.194	0.187	3.6	77	0.00
35		Caprolactam	0.088	0.098	-11.4	88	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.324	-2.2	81	0.00
37		2-Methylnaphthalene	0.674	0.657	2.5	79	0.00
38		1-Methylnaphthalene	0.647	0.645	0.3	81	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	81	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.577	0.2	80	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.235	2.5	74	0.00
42	S	2,4,6-Tribromophenol	0.188	0.210	-11.7	85	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.395	-5.9	81	0.00
44		2,4,5-Trichlorophenol	0.369	0.412	-11.7	87	0.00
45	S	2-Fluorobiphenyl	1.247	1.230	1.4	81	0.00
46		1,1'-Biphenyl	1.522	1.505	1.1	80	0.00
47		2-Chloronaphthalene	1.124	1.144	-1.8	82	0.00

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	0.260	0.374	-43.8#	101	0.00
49		Acenaphthylene	1.685	1.726	-2.4	82	0.00
50		Dimethylphthalate	1.339	1.326	1.0	79	-0.01
51		2,6-Dinitrotoluene	0.226	0.297	-31.4#	94	0.00
52	C	Acenaphthene	1.137	1.188	-4.5	84	0.00
53		3-Nitroaniline	0.241	0.328	-36.1#	96	0.00
54	P	2,4-Dinitrophenol	0.089	0.149	-67.4#	131	0.00
55		Dibenzofuran	1.654	1.670	-1.0	82	0.00
56	P	4-Nitrophenol	0.198	0.283	-42.9#	101	0.00
57		2,4-Dinitrotoluene	0.269	0.392	-45.7#	102	0.00
58		Fluorene	1.239	1.253	-1.1	83	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.351	-9.3	84	0.00
60		Diethylphthalate	1.343	1.320	1.7	77	-0.01
61		4-Chlorophenyl-phenylether	0.621	0.606	2.4	79	0.00
62		4-Nitroaniline	0.229	0.330	-44.1#	100	-0.01
63		Azobenzene	1.414	1.353	4.3	76	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.122	-50.6#	119	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.638	2.9	81	0.00
67		4-Bromophenyl-phenylether	0.234	0.223	4.7	79	0.00
68		Hexachlorobenzene	0.247	0.245	0.8	82	0.00
69		Atrazine	0.181	0.156	13.8	74	0.00
70	C	Pentachlorophenol	0.156	0.176	-12.8	89	0.00
71		Phenanthrene	1.070	1.082	-1.1	85	0.00
72		Anthracene	1.072	1.088	-1.5	86	0.00
73		Carbazole	0.947	0.990	-4.5	88	0.00
74		Di-n-butylphthalate	1.200	1.131	5.7	79	0.00
75	C	Fluoranthene	1.096	1.157	-5.6	90	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
77		Benzidine	0.252	0.382	-51.6#	139	0.00
78		Pyrene	1.732	1.722	0.6	91	0.00
79	S	Terphenyl-d14	1.236	1.190	3.7	89	0.00
80		Butylbenzylphthalate	0.629	0.646	-2.7	92	-0.01
81		Benzo(a)anthracene	1.321	1.308	1.0	94	0.00
82		3,3'-Dichlorobenzidine	0.379	0.382	-0.8	92	-0.01
83		Chrysene	1.218	1.190	2.3	89	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.807	-3.1	92	-0.01
85	c	Di-n-octyl phthalate	1.173	1.132	3.5	82	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	91	-0.01
87		Indeno(1,2,3-cd)pyrene	1.274	1.310	-2.8	88	-0.02
88		Benzo(b)fluoranthene	1.362	1.368	-0.4	95	-0.01
89		Benzo(k)fluoranthene	1.158	1.057	8.7	79	-0.01
90	C	Benzo(a)pyrene	1.093	1.074	1.7	87	-0.01
91		Dibenzo(a,h)anthracene	1.040	1.067	-2.6	87	-0.01
92		Benzo(g,h,i)perylene	1.065	1.105	-3.8	89	-0.02

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 = 1

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	86	0.00
2		1,4-Dioxane	40.000	40.225	-0.6	82	0.00
3		Pyridine	40.000	40.439	-1.1	83	0.00
4		n-Nitrosodimethylamine	40.000	40.740	-1.9	81	-0.01
5	S	2-Fluorophenol	80.000	80.693	-0.9	84	0.00
6		Aniline	40.000	39.633	0.9	79	0.00
7	S	Phenol-d6	80.000	79.155	1.1	82	0.00
8		2-Chlorophenol	40.000	39.983	0.0	82	0.00
9		Benzaldehyde	40.000	35.170	12.1	73	0.00
10	C	Phenol	40.000	39.824	0.4	82	0.00
11		bis(2-Chloroethyl)ether	40.000	37.114	7.2	79	0.00
12		1,3-Dichlorobenzene	40.000	39.458	1.4	81	0.00
13	C	1,4-Dichlorobenzene	40.000	39.687	0.8	82	0.00
14		1,2-Dichlorobenzene	40.000	39.499	1.3	82	0.00
15		Benzyl Alcohol	40.000	39.062	2.3	80	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.131	12.2	73	0.00
17		2-Methylphenol	40.000	39.120	2.2	80	0.00
18		Hexachloroethane	40.000	38.167	4.6	77	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.637	10.9	75	0.00
20		3+4-Methylphenols	40.000	39.753	0.6	82	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	82	0.00
22		Acetophenone	40.000	39.406	1.5	79	0.00
23	S	Nitrobenzene-d5	80.000	94.823	-18.5	89	0.00
24		Nitrobenzene	40.000	44.751	-11.9	84	0.00
25		Isophorone	40.000	37.638	5.9	76	0.00
26	C	2-Nitrophenol	40.000	47.760	-19.4	102	0.00
27		2,4-Dimethylphenol	40.000	40.220	-0.5	80	0.00
28		bis(2-Chloroethoxy)methane	40.000	36.892	7.8	74	0.00
29	C	2,4-Dichlorophenol	40.000	40.846	-2.1	80	0.00
30		1,2,4-Trichlorobenzene	40.000	39.998	0.0	80	0.00
31		Naphthalene	40.000	39.574	1.1	80	0.00
32		Benzoic acid	40.000	48.051	-20.1	106	-0.01
33		4-Chloroaniline	40.000	40.091	-0.2	81	0.00
34	C	Hexachlorobutadiene	40.000	38.603	3.5	77	0.00
35		Caprolactam	40.000	44.676	-11.7	88	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.944	-2.4	81	0.00
37		2-Methylnaphthalene	40.000	38.964	2.6	79	0.00
38		1-Methylnaphthalene	40.000	39.860	0.4	81	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	81	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.950	0.1	80	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.977	2.6	74	0.00
42	S	2,4,6-Tribromophenol	80.000	89.332	-11.7	85	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.317	-5.8	81	0.00
44		2,4,5-Trichlorophenol	40.000	44.643	-11.6	87	0.00
45	S	2-Fluorobiphenyl	80.000	78.861	1.4	81	0.00
46		1,1'-Biphenyl	40.000	39.541	1.1	80	0.00
47		2-Chloronaphthalene	40.000	40.733	-1.8	82	0.00

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	48.579	-21.4	101	0.00
49		Acenaphthylene	40.000	40.985	-2.5	82	0.00
50		Dimethylphthalate	40.000	39.595	1.0	79	-0.01
51		2,6-Dinitrotoluene	40.000	46.487	-16.2	94	0.00
52	C	Acenaphthene	40.000	41.819	-4.5	84	0.00
53		3-Nitroaniline	40.000	48.006	-20.0	96	0.00
54	P	2,4-Dinitrophenol	40.000	57.060	-42.7#	131	0.00
55		Dibenzofuran	40.000	40.368	-0.9	82	0.00
56	P	4-Nitrophenol	40.000	57.194	-43.0#	101	0.00
57		2,4-Dinitrotoluene	40.000	49.981	-25.0	102	0.00
58		Fluorene	40.000	40.458	-1.1	83	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	43.711	-9.3	84	0.00
60		Diethylphthalate	40.000	39.332	1.7	77	-0.01
61		4-Chlorophenyl-phenylether	40.000	39.043	2.4	79	0.00
62		4-Nitroaniline	40.000	57.675	-44.2#	100	-0.01
63		Azobenzene	40.000	38.283	4.3	76	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	85	0.00
65		4,6-Dinitro-2-methylphenol	40.000	51.268	-28.2#	119	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.849	2.9	81	0.00
67		4-Bromophenyl-phenylether	40.000	38.195	4.5	79	0.00
68		Hexachlorobenzene	40.000	39.651	0.9	82	0.00
69		Atrazine	40.000	34.483	13.8	74	0.00
70	C	Pentachlorophenol	40.000	45.085	-12.7	89	0.00
71		Phenanthrene	40.000	40.455	-1.1	85	0.00
72		Anthracene	40.000	40.598	-1.5	86	0.00
73		Carbazole	40.000	41.829	-4.6	88	0.00
74		Di-n-butylphthalate	40.000	37.694	5.8	79	0.00
75	C	Fluoranthene	40.000	42.219	-5.5	90	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.00
77		Benzidine	40.000	60.734	-51.8#	139	0.00
78		Pyrene	40.000	39.773	0.6	91	0.00
79	S	Terphenyl-d14	80.000	76.987	3.8	89	0.00
80		Butylbenzylphthalate	40.000	41.053	-2.6	92	-0.01
81		Benzo(a)anthracene	40.000	39.619	1.0	94	0.00
82		3,3'-Dichlorobenzidine	40.000	40.293	-0.7	92	-0.01
83		Chrysene	40.000	39.076	2.3	89	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.198	-3.0	92	-0.01
85	c	Di-n-octyl phthalate	40.000	38.592	3.5	82	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	91	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	41.147	-2.9	88	-0.02
88		Benzo(b)fluoranthene	40.000	40.178	-0.4	95	-0.01
89		Benzo(k)fluoranthene	40.000	36.524	8.7	79	-0.01
90	C	Benzo(a)pyrene	40.000	39.322	1.7	87	-0.01
91		Dibenzo(a,h)anthracene	40.000	41.050	-2.6	87	-0.01
92		Benzo(g,h,i)perylene	40.000	41.520	-3.8	89	-0.02

Sample Results: **BF141835.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141835.D
Acq On : 05 Mar 2025 10:09
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 05 11:27:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BF141858.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.252	1.263		0.9	
Benzaldehyde	0.948	0.847		-10.7	
Phenol-d6	1.630	1.584		-2.8	
Phenol	1.742	1.692		-2.9	20.0
bis(2-Chloroethyl)ether	1.328	1.246		-6.2	
2-Chlorophenol	1.355	1.366		0.8	
2-Methylphenol	1.118	1.076		-3.8	
2,2-oxybis(1-Chloropropane)	2.016	1.664		-17.5	
Acetophenone	0.487	0.490		0.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	0.946	0.050	-11.8	
Nitrobenzene-d5	0.313	0.382		22.0	
Hexachloroethane	0.547	0.554		1.3	
Nitrobenzene	0.335	0.382		14.0	
Isophorone	0.672	0.635		-5.5	
2-Nitrophenol	0.127	0.188		48.0	20.0
2,4-Dimethylphenol	0.247	0.253		2.4	
bis(2-Chloroethoxy)methane	0.429	0.412		-4.0	
2,4-Dichlorophenol	0.285	0.305		7.0	20.0
Naphthalene	1.028	1.054		2.5	
4-Chloroaniline	0.377	0.374		-0.8	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
Caprolactam	0.088	0.093		5.7	
4-Chloro-3-methylphenol	0.317	0.330		4.1	20.0
2-Methylnaphthalene	0.674	0.684		1.5	
Hexachlorocyclopentadiene	0.241	0.266	0.050	10.4	
2,4,6-Trichlorophenol	0.373	0.399		7.0	20.0
2-Fluorobiphenyl	1.247	1.292		3.6	
2,4,5-Trichlorophenol	0.369	0.413		11.9	
1,1-Biphenyl	1.522	1.560		2.5	
2-Chloronaphthalene	1.124	1.157		2.9	
2-Nitroaniline	0.260	0.356		36.9	
Dimethylphthalate	1.339	1.363		1.8	
Acenaphthylene	1.685	1.735		3.0	
2,6-Dinitrotoluene	0.226	0.300		32.7	
3-Nitroaniline	0.241	0.314		30.3	
Acenaphthene	1.137	1.209		6.3	20.0
2,4-Dinitrophenol	0.089	0.159	0.050	78.7	
4-Nitrophenol	0.198	0.262	0.050	32.3	

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: JPCL01

Lab Code: CHEM Case No.: Q1487 SAS No.: Q1487 SDG No.: Q1487

Instrument ID: BNA_F Calibration Date/Time: 03/06/2025 09:52

Lab File ID: BF141858.D Init. Calib. Date(s): 02/27/2025 02/27/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:17 18:45

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.654	1.682		1.7	
2,4-Dinitrotoluene	0.269	0.396		47.2	
Diethylphthalate	1.343	1.344		0.1	
4-Chlorophenyl-phenylether	0.621	0.640		3.1	
Fluorene	1.239	1.270		2.5	
4-Nitroaniline	0.229	0.307		34.1	
4,6-Dinitro-2-methylphenol	0.081	0.132		63.0	
n-Nitrosodiphenylamine	0.657	0.670		2.0	20.0
2,4,6-Tribromophenol	0.188	0.224		19.1	
4-Bromophenyl-phenylether	0.234	0.243		3.8	
Hexachlorobenzene	0.247	0.266		7.7	
Atrazine	0.181	0.155		-14.4	
Pentachlorophenol	0.156	0.186		19.2	20.0
Phenanthrene	1.070	1.115		4.2	
Anthracene	1.072	1.115		4.0	
Carbazole	0.947	0.988		4.3	
Di-n-butylphthalate	1.200	1.188		-1.0	
Fluoranthene	1.096	1.142		4.2	20.0
Pyrene	1.732	1.820		5.1	
Terphenyl-d14	1.236	1.301		5.3	
Butylbenzylphthalate	0.629	0.650		3.3	
3,3-Dichlorobenzidine	0.379	0.405		6.9	
Benzo(a)anthracene	1.321	1.360		3.0	
Chrysene	1.218	1.218		0.0	
Bis(2-ethylhexyl)phthalate	0.783	0.799		2.0	
Di-n-octyl phthalate	1.173	1.163		-0.9	20.0
Benzo(b)fluoranthene	1.362	1.388		1.9	
Benzo(k)fluoranthene	1.158	1.073		-7.3	
Benzo(a)pyrene	1.093	1.113		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.507		18.3	
Dibenzo(a,h)anthracene	1.040	1.220		17.3	
Benzo(g,h,i)perylene	1.065	1.282		20.4	
1,2,4,5-Tetrachlorobenzene	0.578	0.607		5.0	
1,4-Dioxane	0.568	0.556		-2.1	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.362		12.8	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	207866	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	779725	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	422269	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	691934	20.000	ng	0.00
76) Chrysene-d12	14.045	240	434521	20.000	ng	0.00
86) Perylene-d12	15.515	264	382575	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1050190	80.684	ng	0.00
7) Phenol-d6	6.510	99	1317214	77.750	ng	0.00
23) Nitrobenzene-d5	7.445	82	1192671	97.772	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	378753	95.540	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2181831	82.849	ng	0.00
79) Terphenyl-d14	12.986	244	2261369	84.201	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.663	88	231018	39.116	ng	97
3) Pyridine	3.434	79	570443	38.819	ng	97
4) n-Nitrosodimethylamine	3.381	42	275112	38.909	ng	98
6) Aniline	6.551	93	662584	37.619	ng	99
8) 2-Chlorophenol	6.669	128	567877	40.331	ng	99
9) Benzaldehyde	6.439	77	351965	35.716	ng	96
10) Phenol	6.522	94	703333	38.850	ng	99
11) bis(2-Chloroethyl)ether	6.622	93	517816	37.524	ng	97
12) 1,3-Dichlorobenzene	6.828	146	605732	40.171	ng	100
13) 1,4-Dichlorobenzene	6.904	146	625404	41.163	ng	99
14) 1,2-Dichlorobenzene	7.057	146	568001	40.035	ng	99
15) Benzyl Alcohol	7.022	79	524097	38.708	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	691607	33.001	ng	97
17) 2-Methylphenol	7.128	107	447215	38.479	ng	99
18) Hexachloroethane	7.398	117	230292	40.497	ng	98
19) n-Nitroso-di-n-propyla...	7.298	70	393107	35.298	ng	98
20) 3+4-Methylphenols	7.281	107	568081	39.253	ng	95
22) Acetophenone	7.292	105	764218	40.243	ng	100
24) Nitrobenzene	7.469	77	596360	45.653	ng	97
25) Isophorone	7.704	82	990974	37.814	ng	98
26) 2-Nitrophenol	7.781	139	292782	49.968	ng	99
27) 2,4-Dimethylphenol	7.810	122	394540	40.956	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	642746	38.448	ng	99
29) 2,4-Dichlorophenol	8.016	162	475671	42.802	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	518388	42.568	ng	99
31) Naphthalene	8.192	128	1644085	41.026	ng	99
32) Benzoic acid	7.916	122	390032	48.428	ng	98
33) 4-Chloroaniline	8.233	127	583547	39.713	ng	99
34) Hexachlorobutadiene	8.304	225	324659	42.902	ng	99
35) Caprolactam	8.598	113	144396	42.235	ng	89
36) 4-Chloro-3-methylphenol	8.704	107	514325	41.661	ng	99
37) 2-Methylnaphthalene	8.880	142	1066438	40.571	ng	99
38) 1-Methylnaphthalene	8.980	142	1024218	40.609	ng	98
40) 1,2,4,5-Tetrachloroben...	9.045	216	513015	42.066	ng	99
41) Hexachlorocyclopentadiene	9.033	237	224284	44.067	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	336951	42.772	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

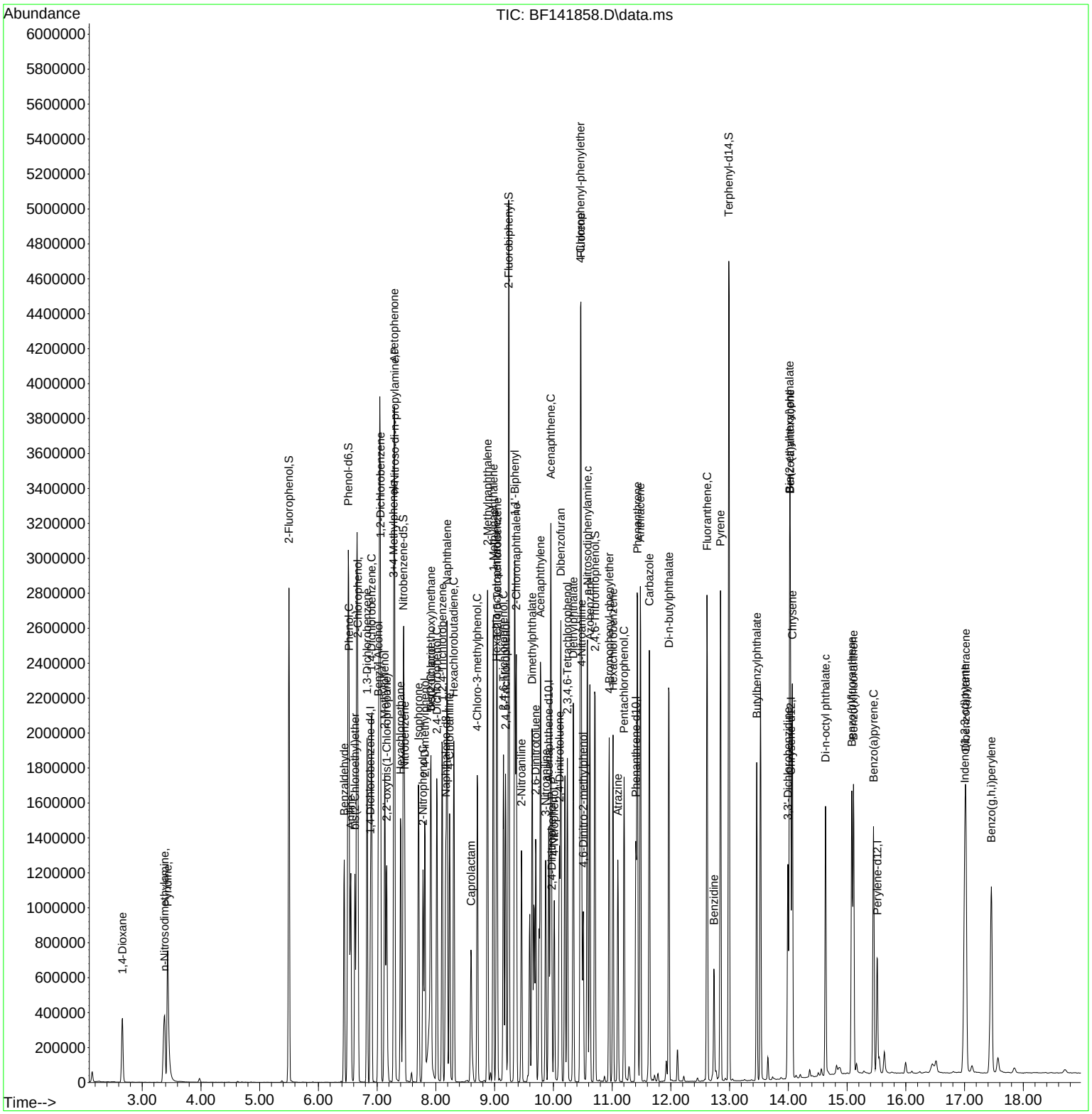
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	349000	44.739	ng		98
46) 1,1'-Biphenyl	9.345	154	1317612	40.994	ng		99
47) 2-Chloronaphthalene	9.369	162	977366	41.199	ng		99
48) 2-Nitroaniline	9.457	65	301038	46.508	ng		95
49) Acenaphthylene	9.780	152	1465550	41.204	ng		99
50) Dimethylphthalate	9.639	163	1150740	40.693	ng		100
51) 2,6-Dinitrotoluene	9.698	165	253007	46.842	ng		96
52) Acenaphthene	9.957	154	1020635	42.527	ng		99
53) 3-Nitroaniline	9.869	138	265149	46.137	ng	#	95
54) 2,4-Dinitrophenol	9.975	184	134035	59.722	ng	#	1
55) Dibenzofuran	10.127	168	1420674	40.671	ng		100
56) 4-Nitrophenol	10.016	139	221169	52.954	ng		97
57) 2,4-Dinitrotoluene	10.104	165	334417	50.419	ng		90
58) Fluorene	10.469	166	1072855	41.003	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	306137	45.123	ng		100
60) Diethylphthalate	10.339	149	1135424	40.052	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	540721	41.246	ng		98
62) 4-Nitroaniline	10.480	138	259275	53.688	ng		97
63) Azobenzene	10.622	77	1146863	38.422	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	182658	54.694	ng		90
66) n-Nitrosodiphenylamine	10.580	169	927726	40.832	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	336262	41.606	ng		98
68) Hexachlorobenzene	11.016	284	367747	43.090	ng		98
69) Atrazine	11.098	200	214392	34.313	ng		98
70) Pentachlorophenol	11.204	266	256754	47.434	ng		99
71) Phenanthrene	11.433	178	1542542	41.677	ng		99
72) Anthracene	11.480	178	1542354	41.580	ng		99
73) Carbazole	11.633	167	1367611	41.751	ng		100
74) Di-n-butylphthalate	11.969	149	1643939	39.592	ng		99
75) Fluoranthene	12.616	202	1579732	41.655	ng		98
77) Benzidine	12.733	184	350744	64.132	ng		100
78) Pyrene	12.845	202	1581543	42.032	ng		99
80) Butylbenzylphthalate	13.463	149	565050	41.333	ng		97
81) Benzo(a)anthracene	14.033	228	1181513	41.166	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	352265	42.780	ng		100
83) Chrysene	14.068	228	1058301	40.001	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	694013	40.771	ng		99
85) Di-n-octyl phthalate	14.633	149	1010509	39.653	ng		97
87) Indeno(1,2,3-cd)pyrene	17.003	276	1152756	47.319	ng		97
88) Benzo(b)fluoranthene	15.080	252	1062079	40.755	ng		99
89) Benzo(k)fluoranthene	15.110	252	821007	37.066	ng		99
90) Benzo(a)pyrene	15.451	252	851884	40.761	ng		99
91) Dibenzo(a,h)anthracene	17.021	278	933839	46.962	ng		98
92) Benzo(g,h,i)perylene	17.456	276	980552	48.133	ng		97

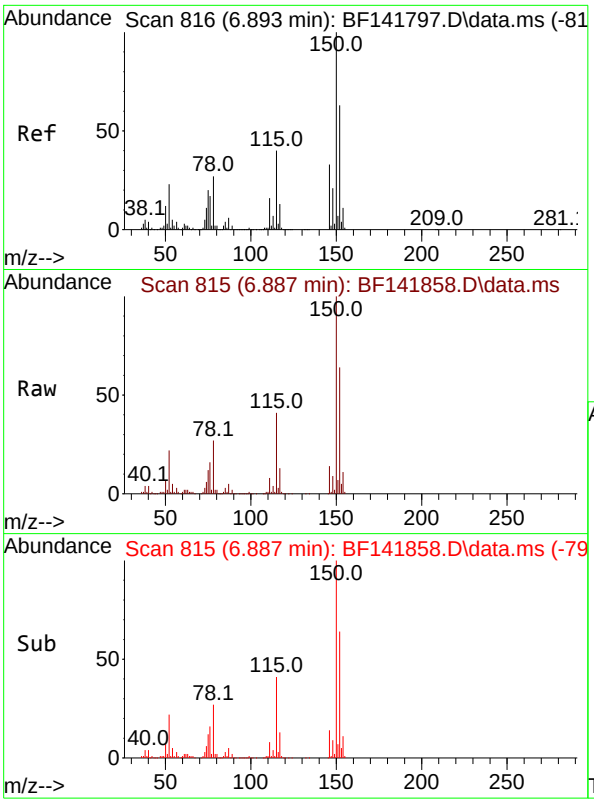
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



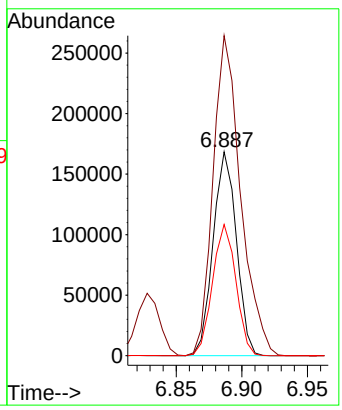


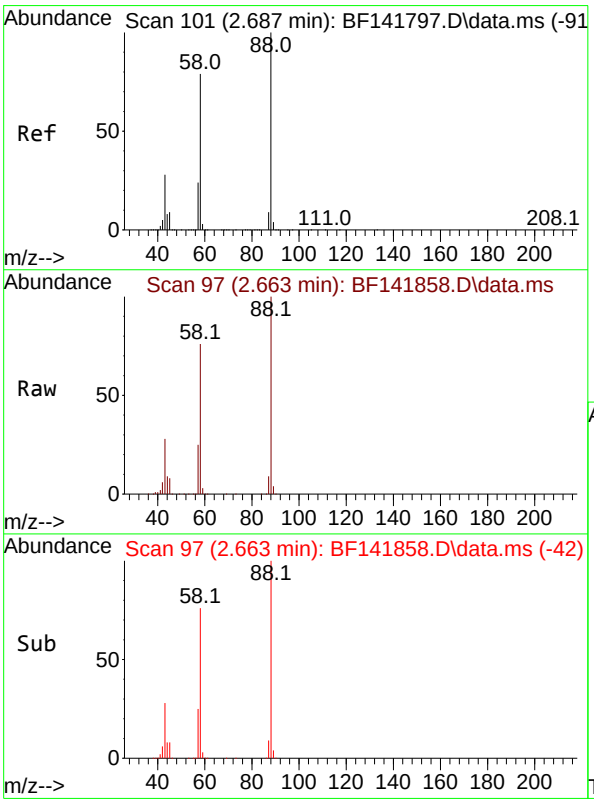
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 207866

Ion	Ratio	Lower	Upper
152	100		
150	157.0	127.5	191.3
115	64.3	51.4	77.2

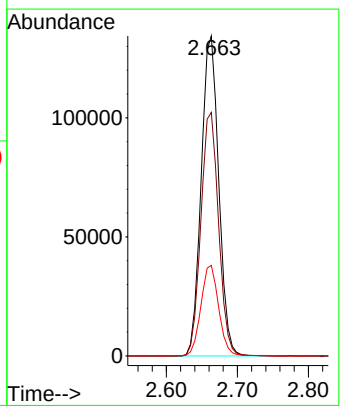


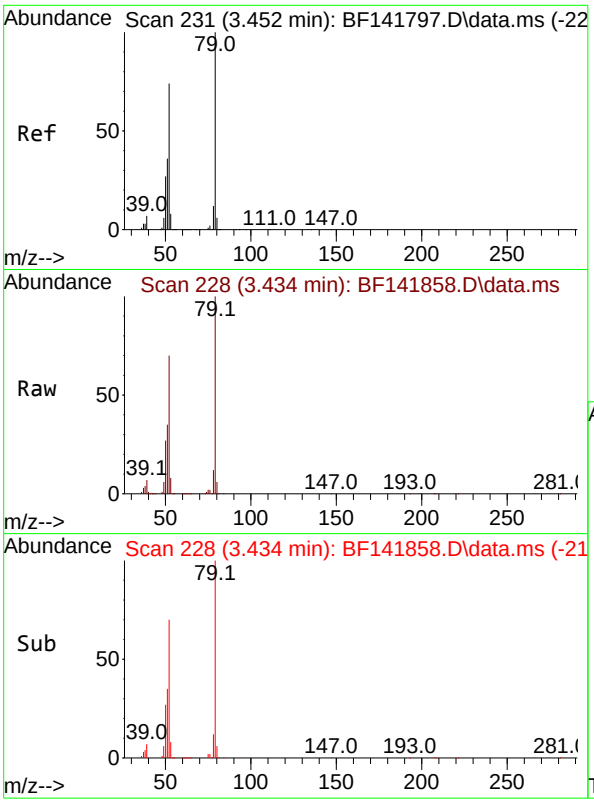


#2
1,4-Dioxane
Concen: 39.116 ng
RT: 2.663 min Scan# 97
Delta R.T. -0.024 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 88 Resp: 231018

Ion	Ratio	Lower	Upper
88	100		
58	76.7	63.9	95.9
43	28.9	23.0	34.6



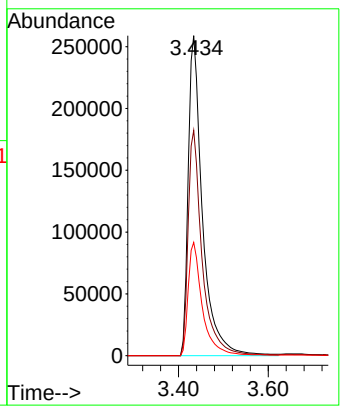


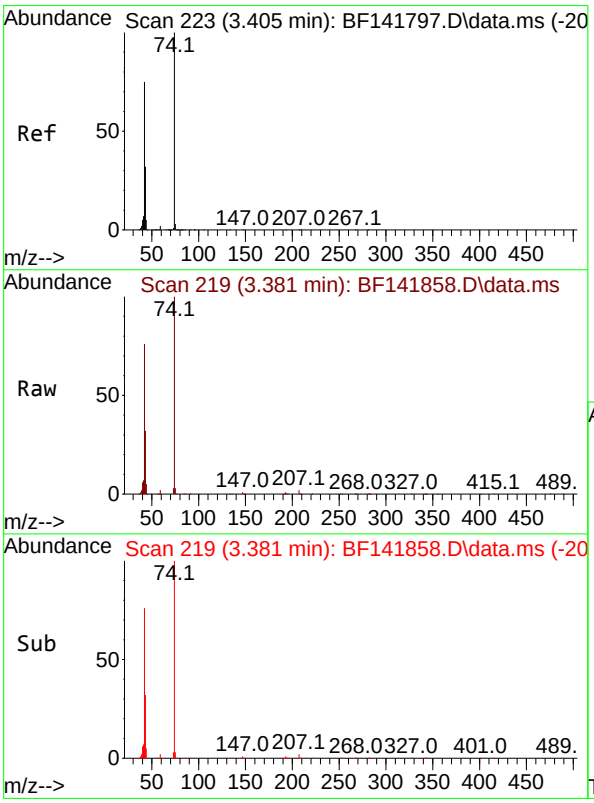
#3
Pyridine
Concen: 38.819 ng
RT: 3.434 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 570443

Ion	Ratio	Lower	Upper
79	100		
52	70.4	59.0	88.4
51	35.4	29.0	43.4

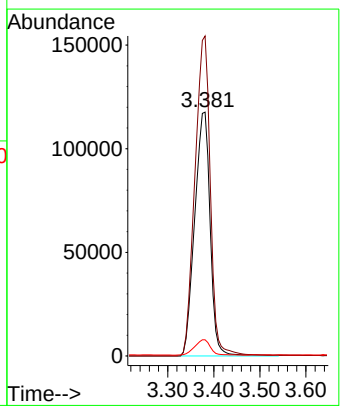


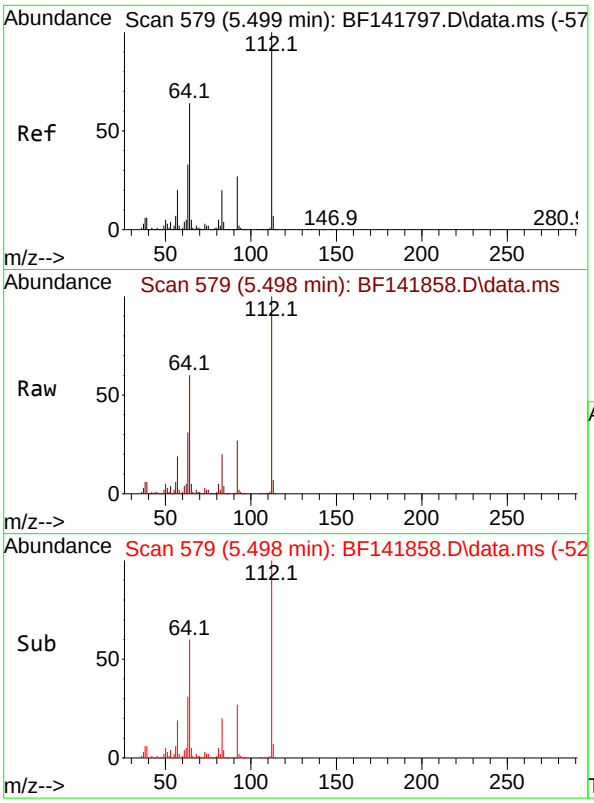


#4
n-Nitrosodimethylamine
Concen: 38.909 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 42 Resp: 275112

Ion	Ratio	Lower	Upper
42	100		
74	131.2	107.1	160.7
44	6.6	6.6	9.8



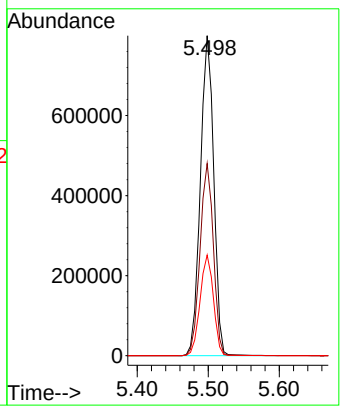


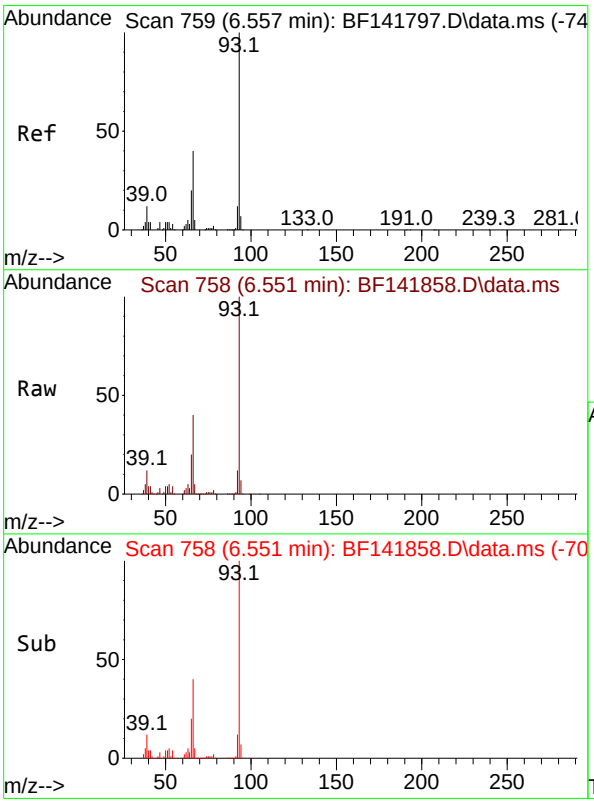
#5
2-Fluorophenol
Concen: 80.684 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 1050190

Ion	Ratio	Lower	Upper
112	100		
64	60.0	51.3	76.9
63	31.5	26.2	39.4

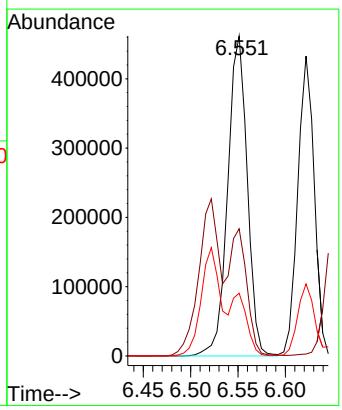


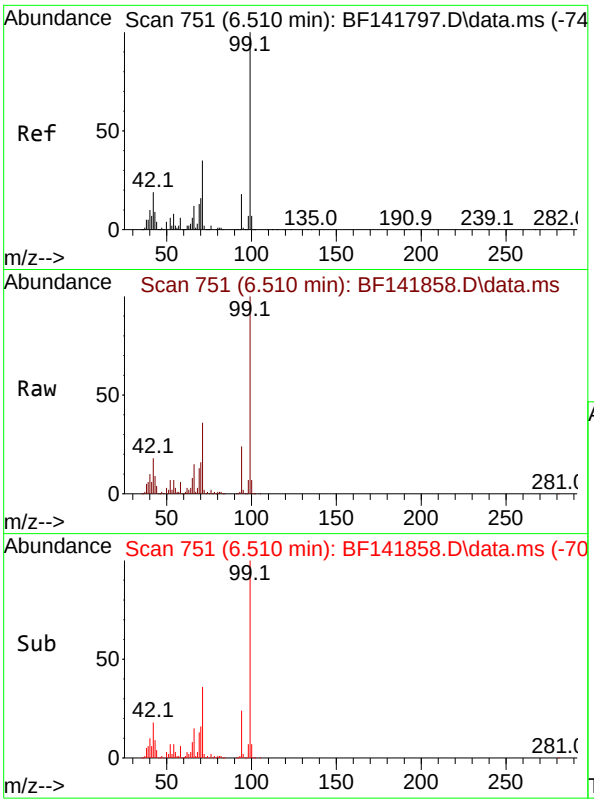


#6
Aniline
Concen: 37.619 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 93 Resp: 662584

Ion	Ratio	Lower	Upper
93	100		
66	39.7	32.3	48.5
65	19.6	15.9	23.9



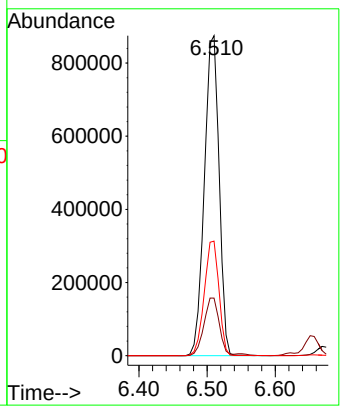


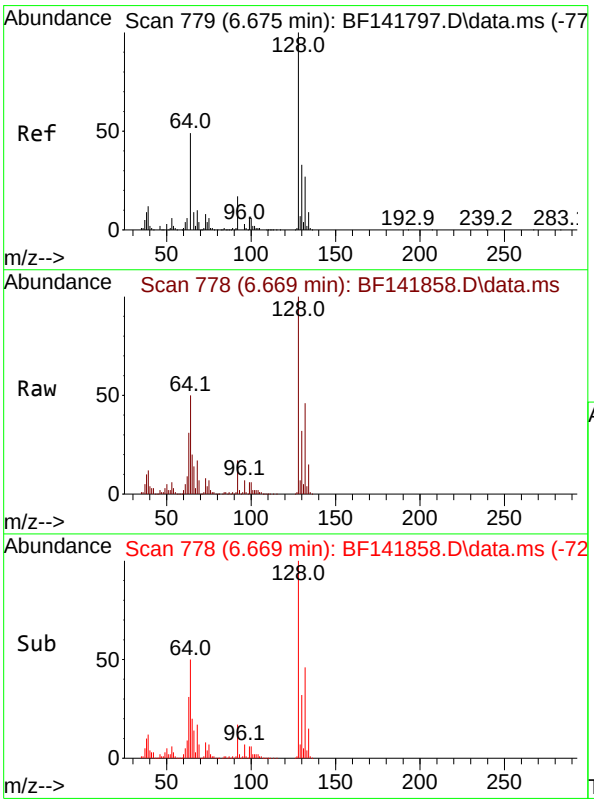
#7
Phenol-d6
Concen: 77.750 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1317214

Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.2	22.8
71	35.8	28.2	42.2

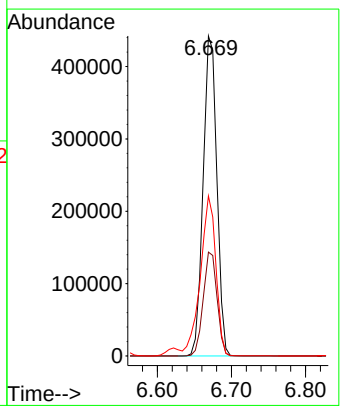


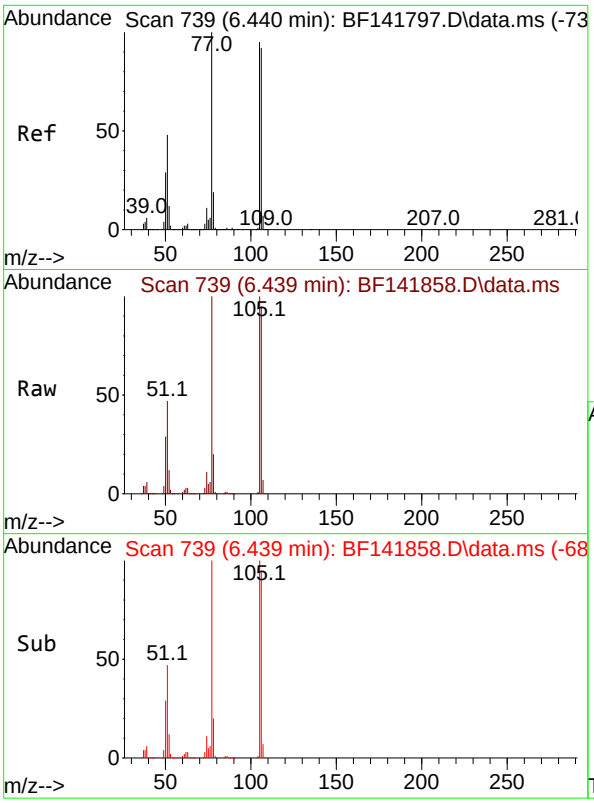


#8
2-Chlorophenol
Concen: 40.331 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:128 Resp: 567877

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	50.0	31.1	71.1



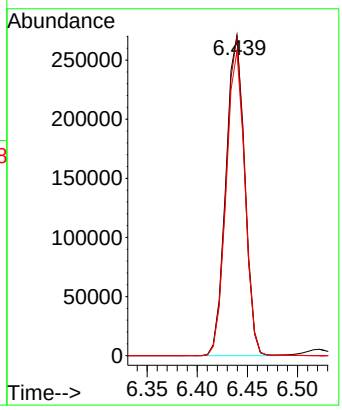


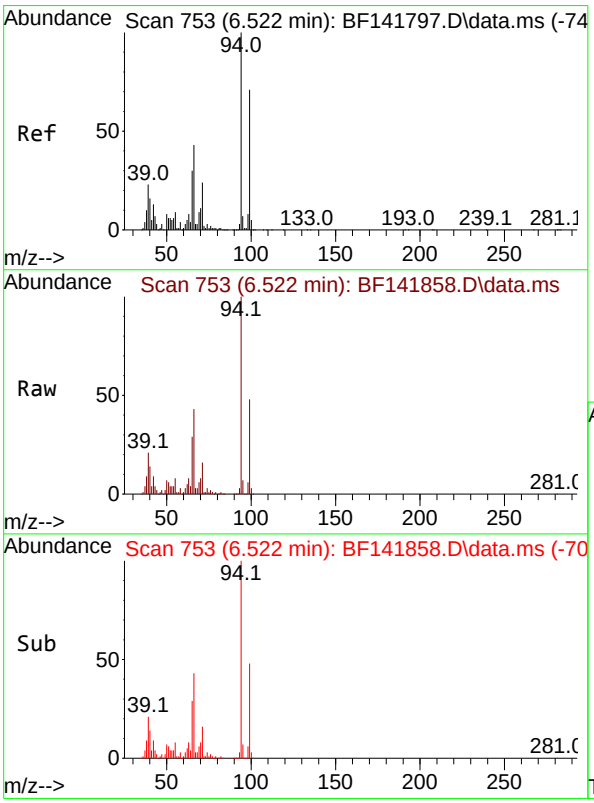
#9
Benzaldehyde
Concen: 35.716 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 351965

Ion	Ratio	Lower	Upper
77	100		
105	99.8	75.3	115.3
106	95.1	72.3	112.3

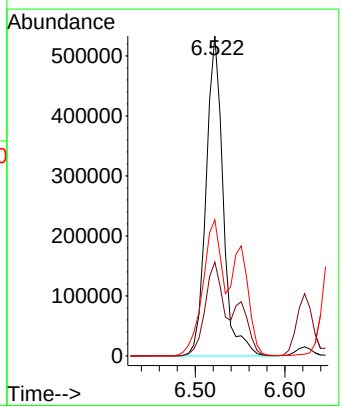


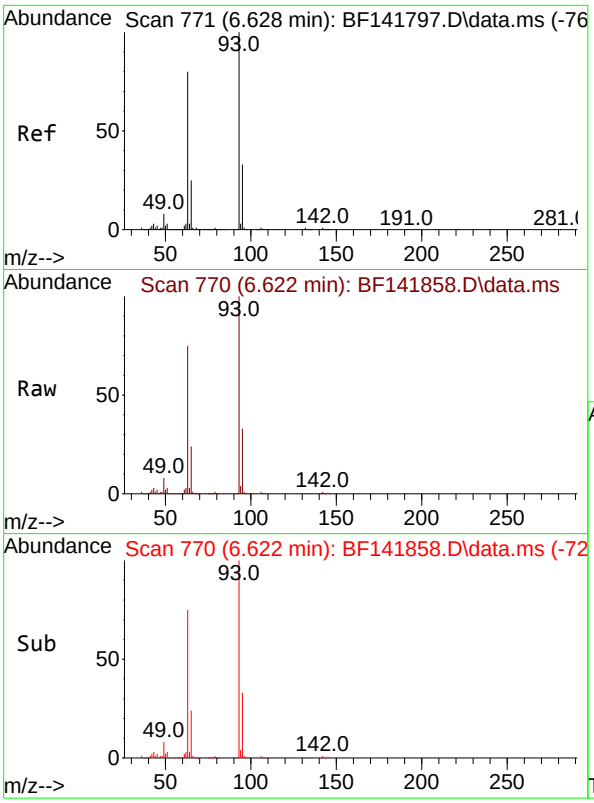


#10
Phenol
Concen: 38.850 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 94 Resp: 703333

Ion	Ratio	Lower	Upper
94	100		
65	29.3	10.2	50.2
66	42.5	23.2	63.2



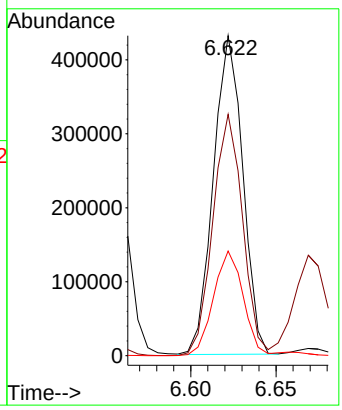


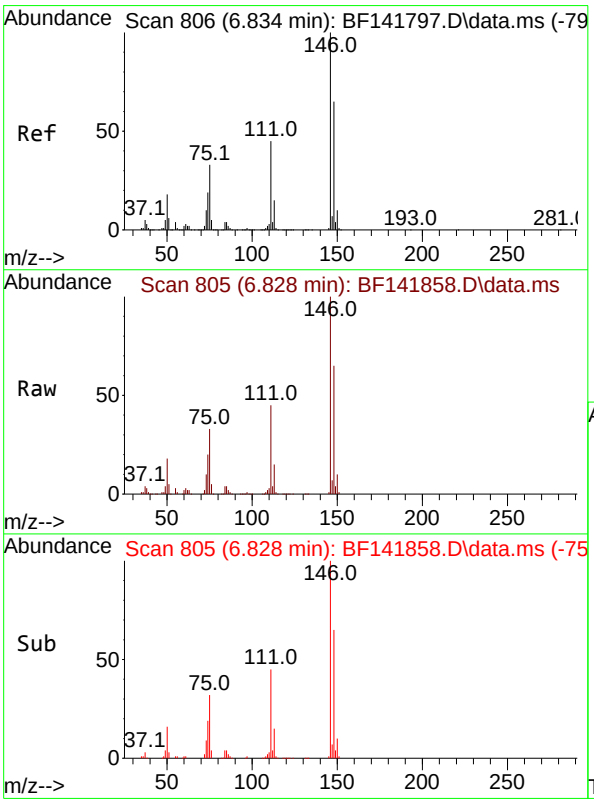
#11
bis(2-Chloroethyl)ether
Concen: 37.524 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 517816

Ion	Ratio	Lower	Upper
93	100		
63	75.4	59.3	99.3
95	32.7	13.2	53.2

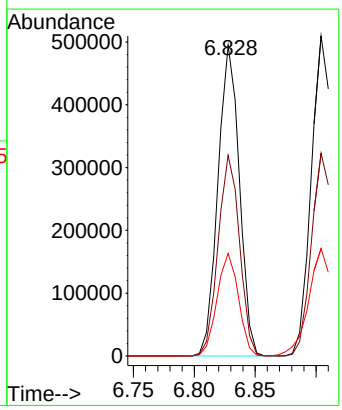


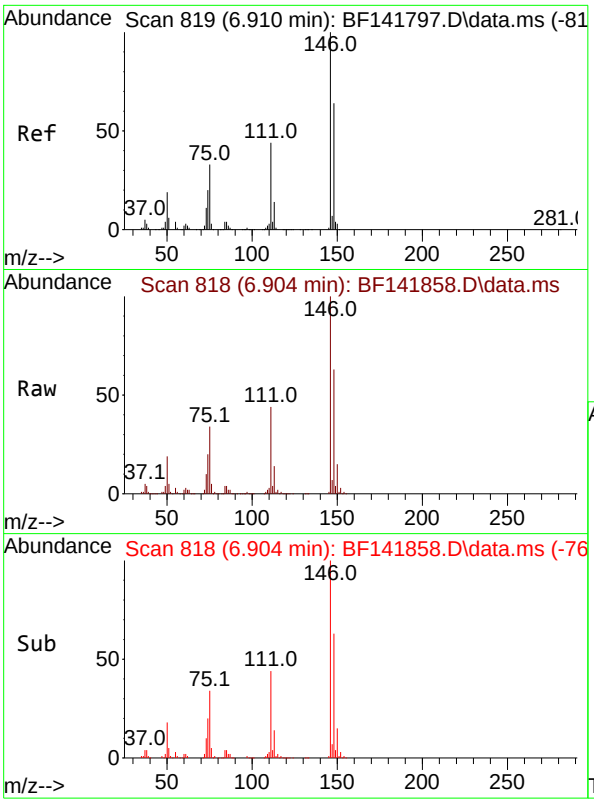


#12
1,3-Dichlorobenzene
Concen: 40.171 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:146 Resp: 605732

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.8	77.6
75	33.0	26.2	39.4



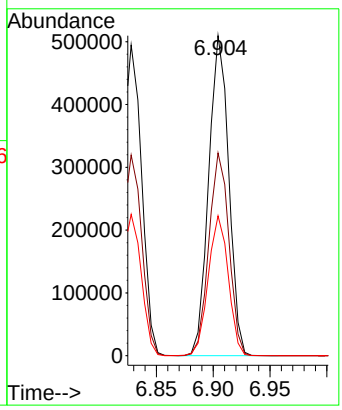


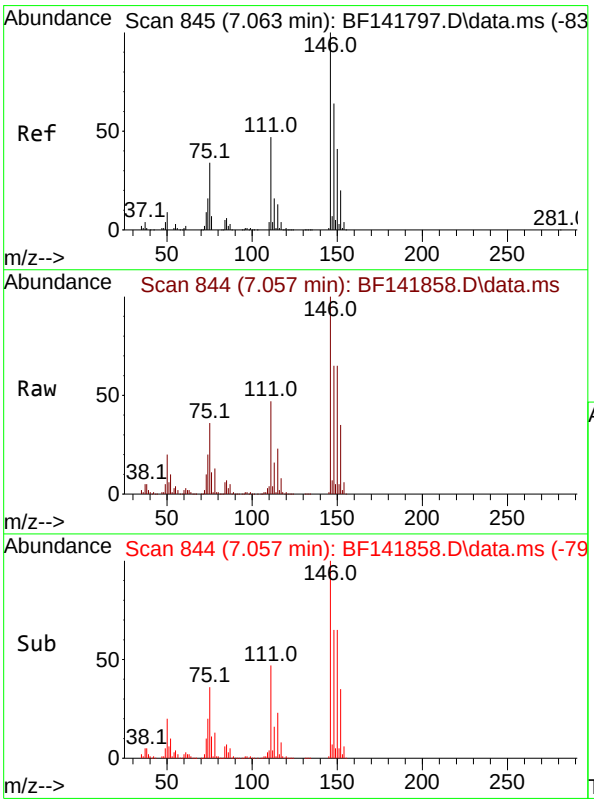
#13
1,4-Dichlorobenzene
Concen: 41.163 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 625404

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.4	77.2
111	43.7	35.5	53.3

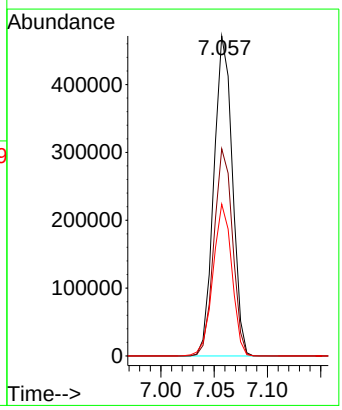


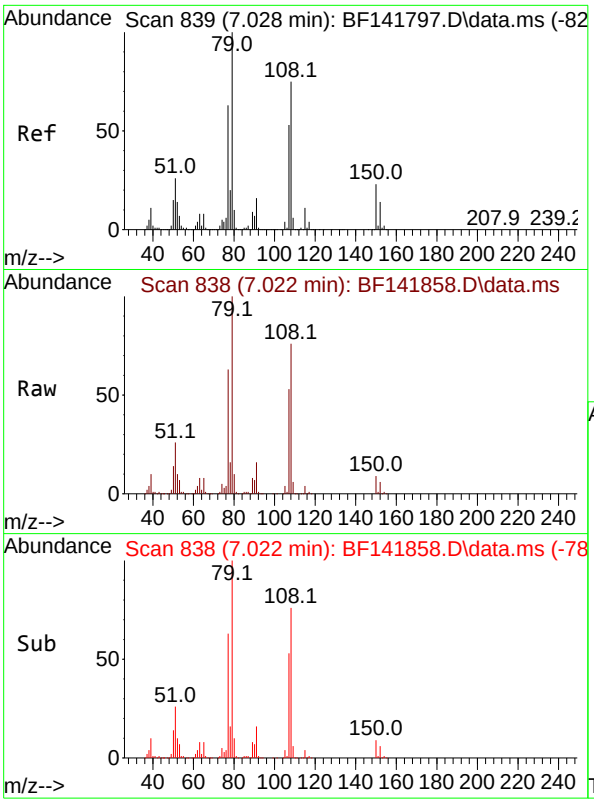


#14
1,2-Dichlorobenzene
Concen: 40.035 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:146 Resp: 568001

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.2	76.8
111	47.5	37.8	56.6



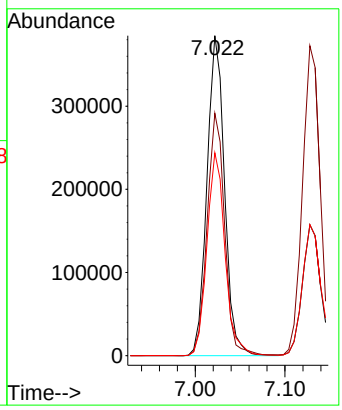


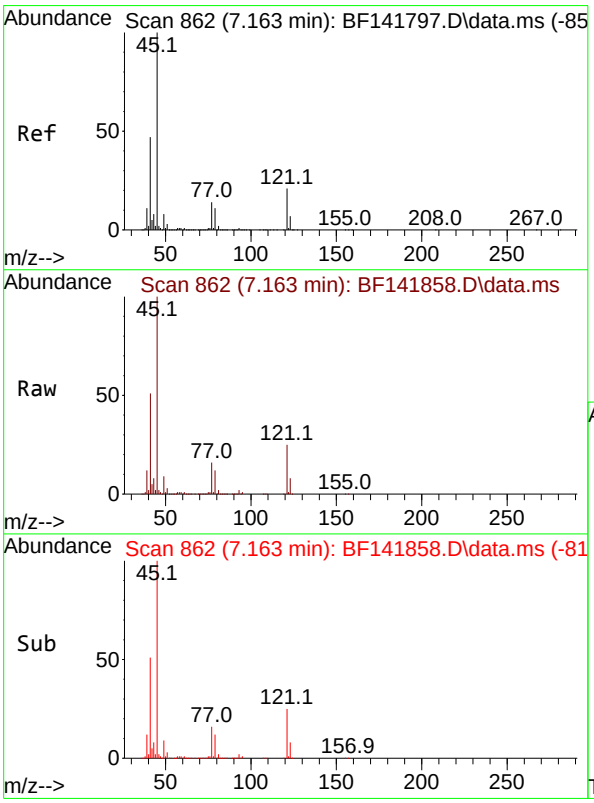
#15
Benzyl Alcohol
Concen: 38.708 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 524097

Ion	Ratio	Lower	Upper
79	100		
108	75.8	60.2	90.2
77	63.4	50.2	75.2

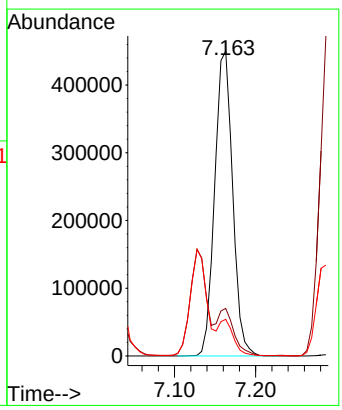


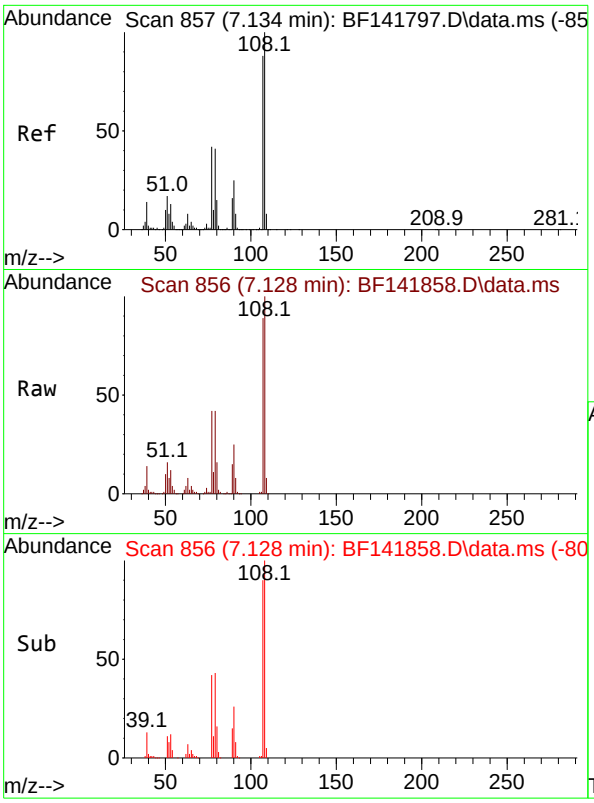


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.001 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 45 Resp: 691607

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.4
79	12.0	0.0	30.9



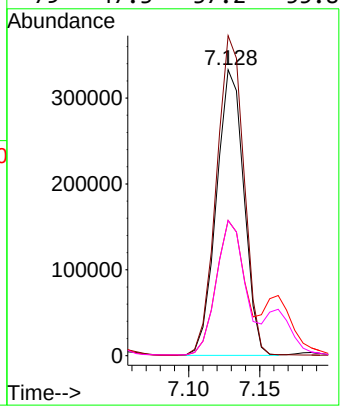


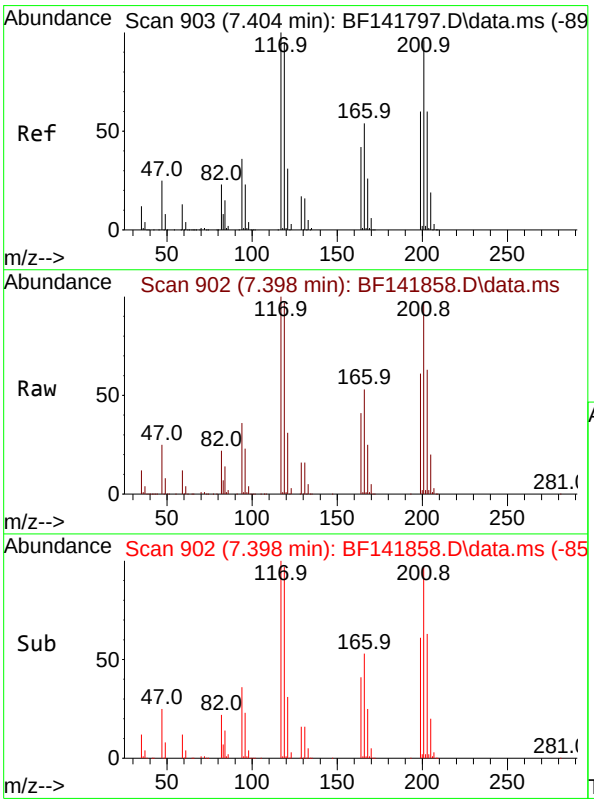
#17
2-Methylphenol
Concen: 38.479 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 447215

Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.6	135.8
77	47.3	37.7	56.5
79	47.3	37.2	55.8

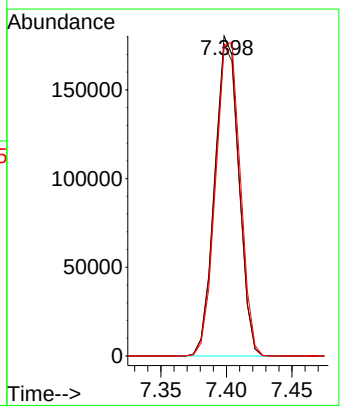


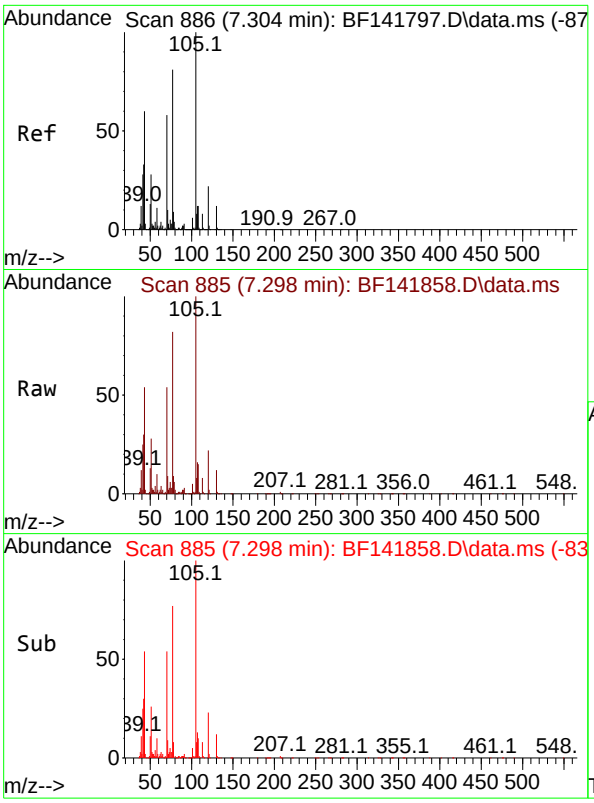


#18
Hexachloroethane
Concen: 40.497 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:117 Resp: 230292

Ion	Ratio	Lower	Upper
117	100		
119	97.4	75.8	113.8
201	97.1	76.7	115.1



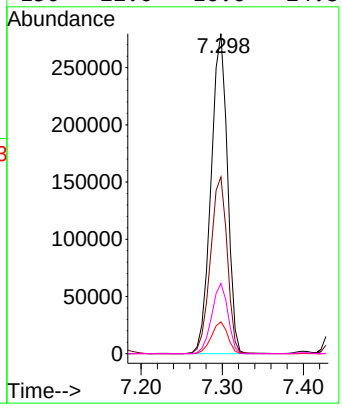


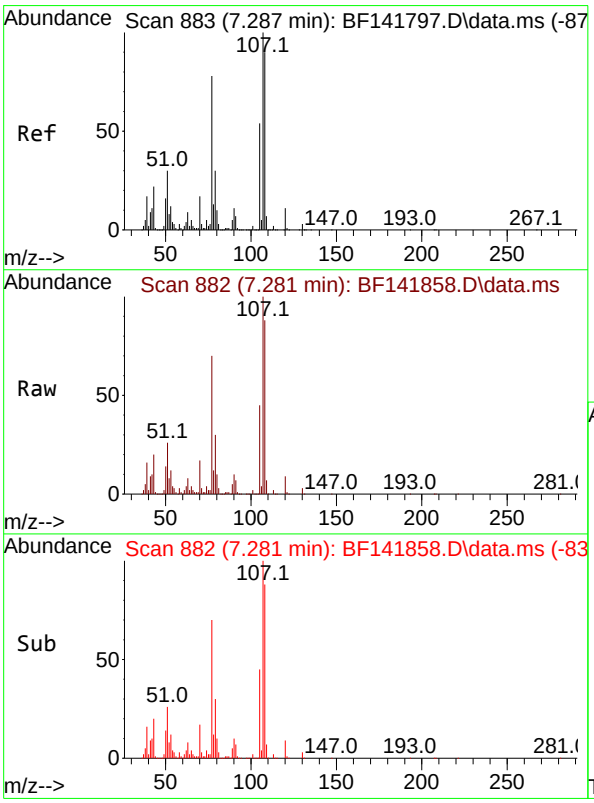
#19
n-Nitroso-di-n-propylamine
Concen: 35.298 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 393107

Ion	Ratio	Lower	Upper
70	100		
42	55.3	45.4	68.0
101	10.0	7.8	11.8
130	22.0	16.6	24.8

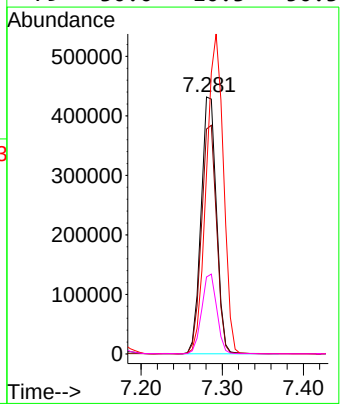


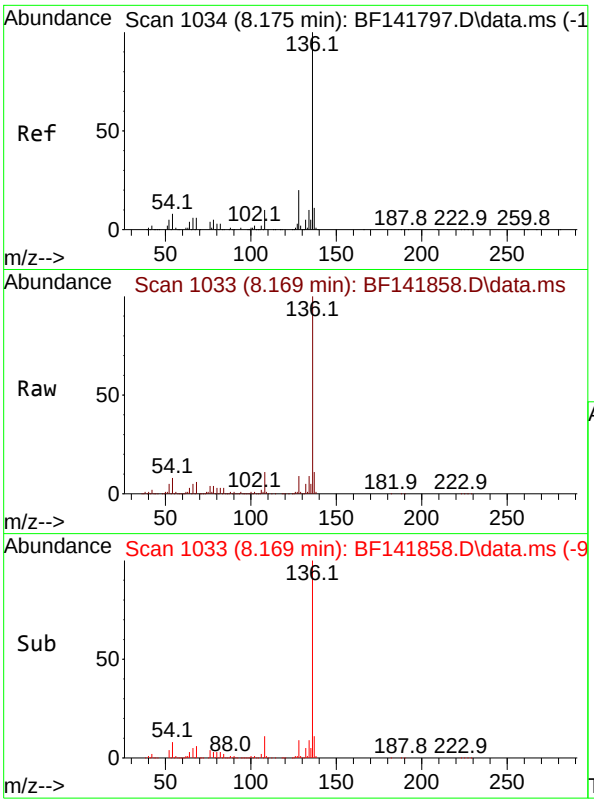


#20
3+4-Methylphenols
Concen: 39.253 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:107 Resp: 568081

Ion	Ratio	Lower	Upper
107	100		
108	87.5	69.7	109.7
77	70.1	58.3	98.3
79	30.0	10.3	50.3



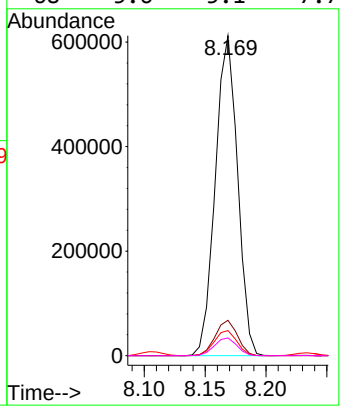


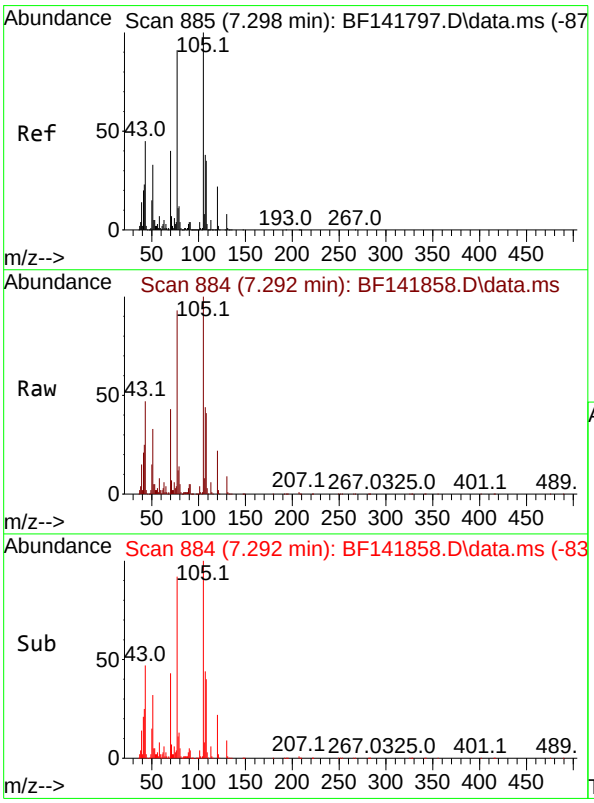
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 779725

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.9	6.9	10.3
68	5.6	5.1	7.7

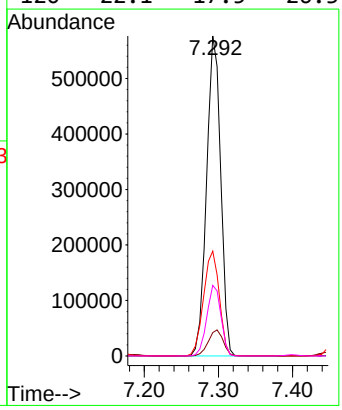


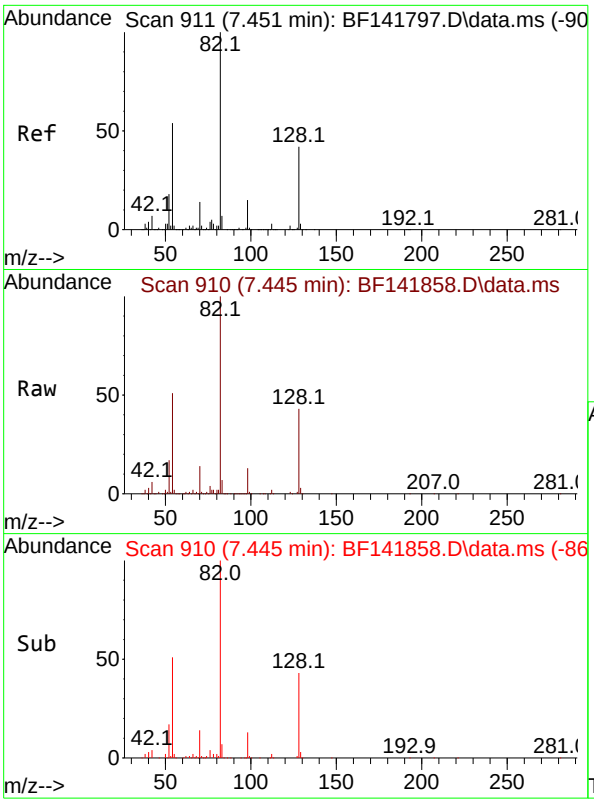


#22
Acetophenone
Concen: 40.243 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:105 Resp: 764218

Ion	Ratio	Lower	Upper
105	100		
71	7.3	5.4	8.0
51	32.8	26.1	39.1
120	22.1	17.5	26.3



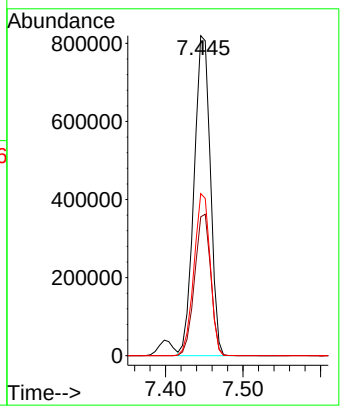


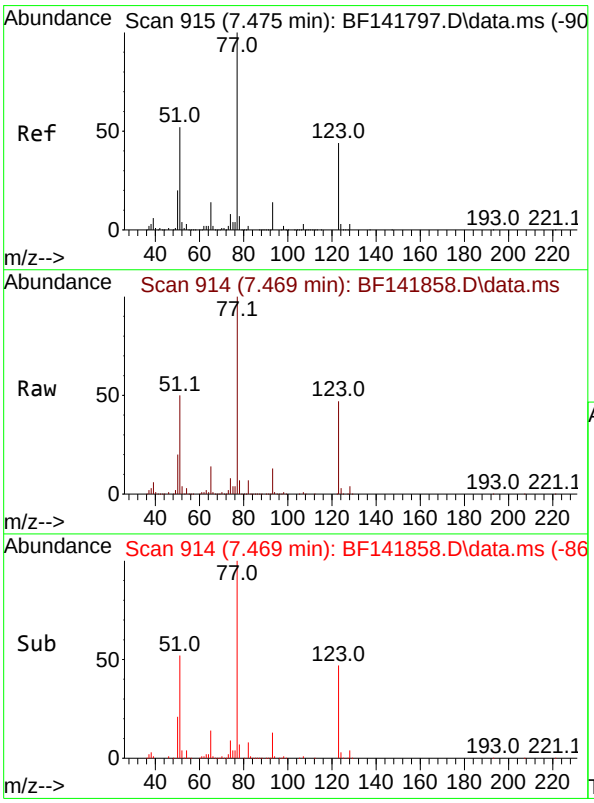
#23
Nitrobenzene-d5
Concen: 97.772 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1192671

Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.5	50.3
54	50.7	42.7	64.1

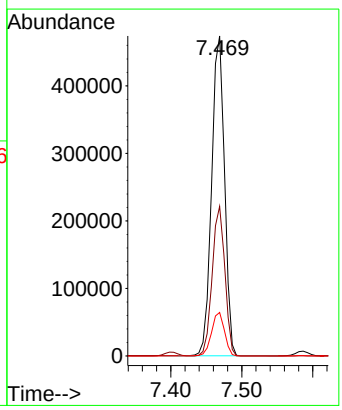


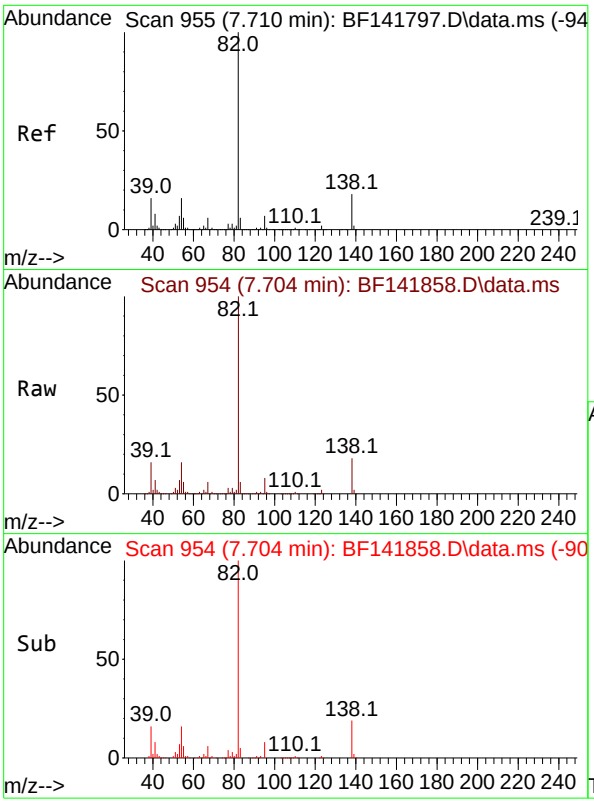


#24
Nitrobenzene
Concen: 45.653 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 77 Resp: 596360

Ion	Ratio	Lower	Upper
77	100		
123	46.8	35.8	53.8
65	13.6	11.2	16.8



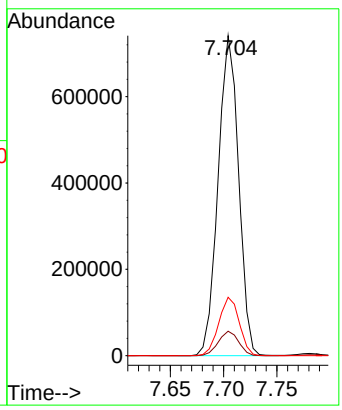


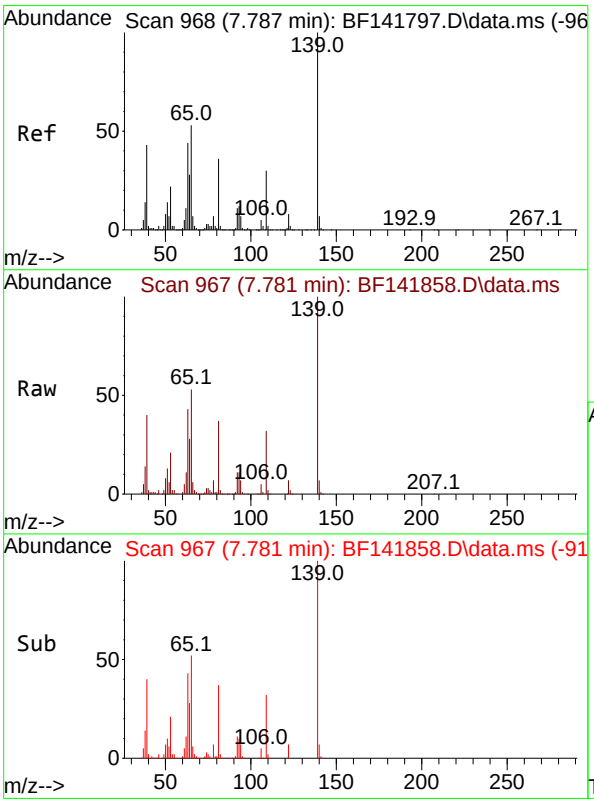
#25
Isophorone
Concen: 37.814 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 990974

Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.8
138	18.3	14.0	21.0

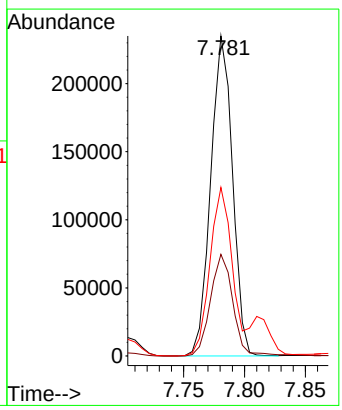


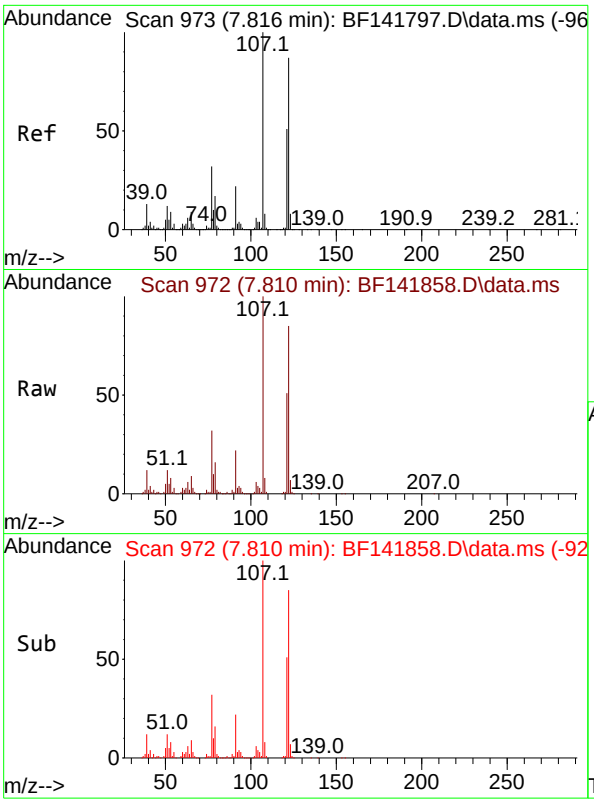


#26
2-Nitrophenol
Concen: 49.968 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:139 Resp: 292782

Ion	Ratio	Lower	Upper
139	100		
109	31.8	24.1	36.1
65	52.6	42.3	63.5



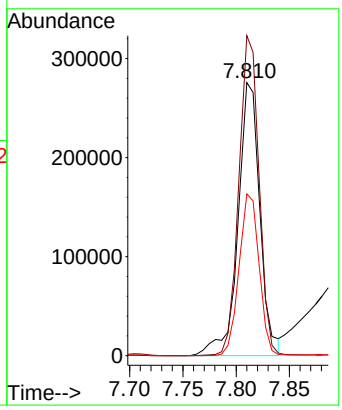


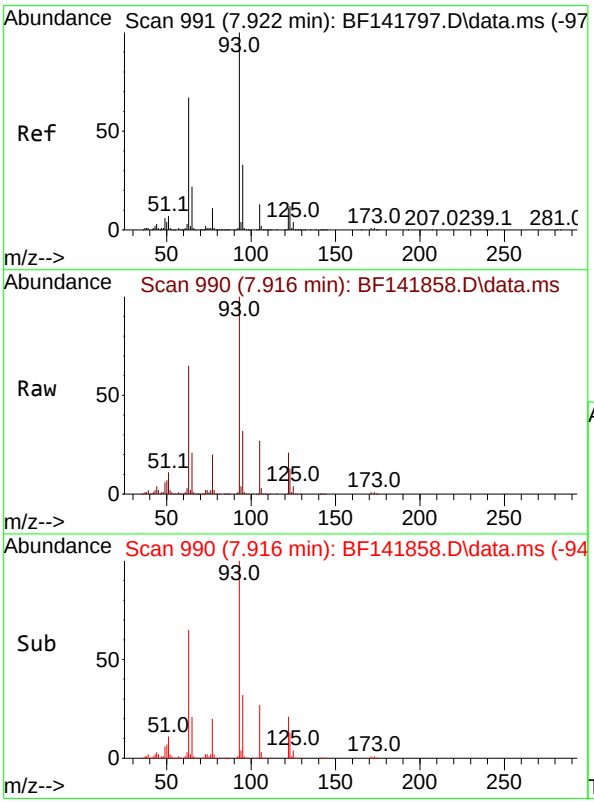
#27
2,4-Dimethylphenol
Concen: 40.956 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 394540

Ion	Ratio	Lower	Upper
122	100		
107	117.1	92.5	138.7
121	59.2	47.1	70.7

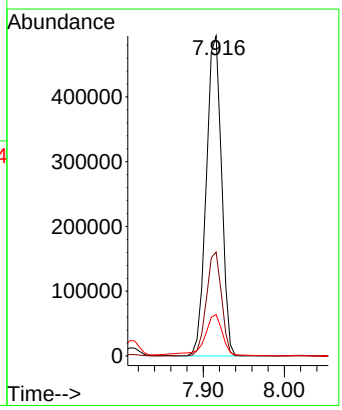


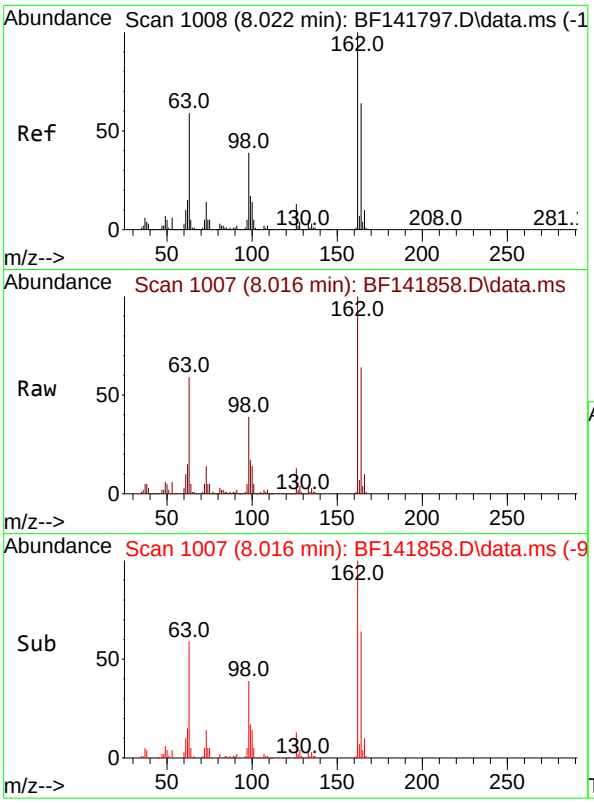


#28
bis(2-Chloroethoxy)methane
Concen: 38.448 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 93 Resp: 642746

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.5	39.7
123	13.0	10.0	15.0



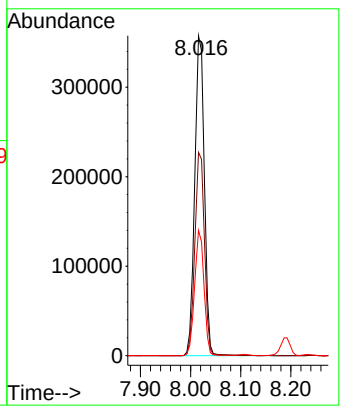


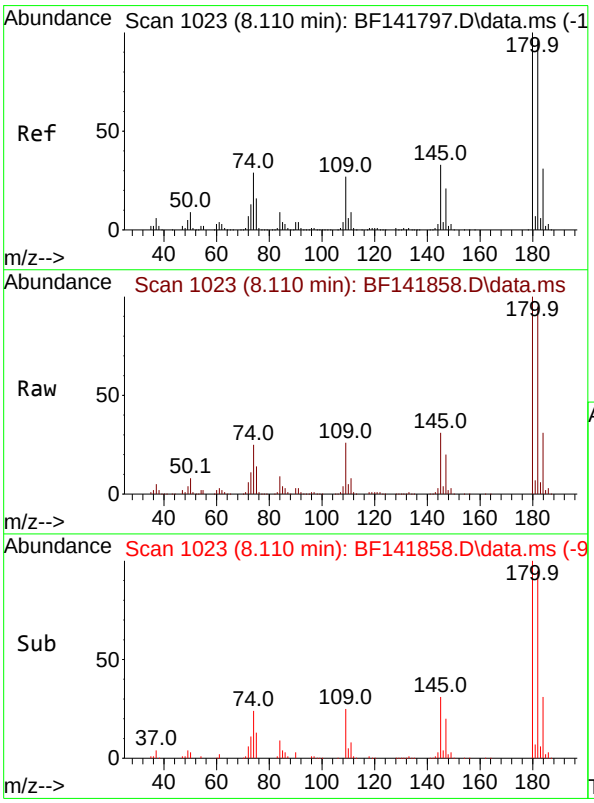
#29
2,4-Dichlorophenol
Concen: 42.802 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 475671

Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.3	84.3
98	39.1	19.6	59.6

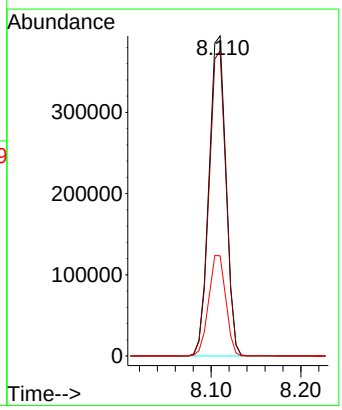


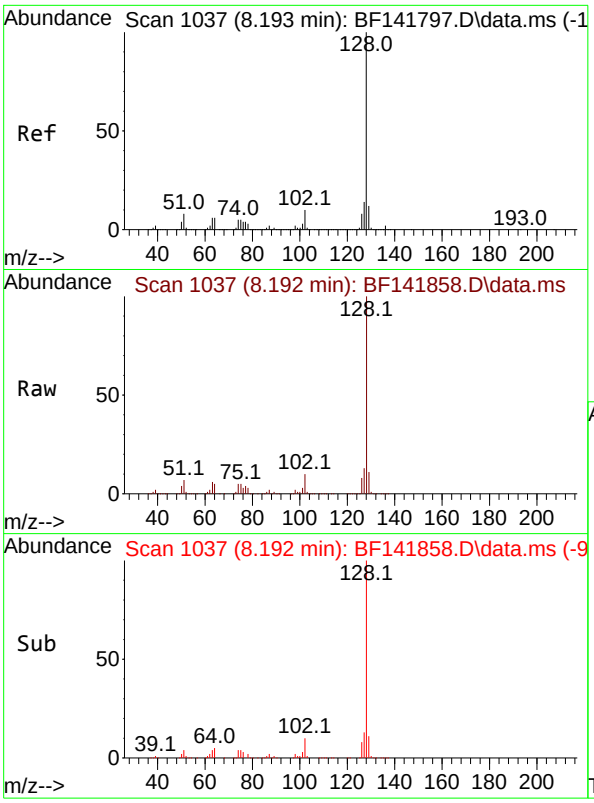


#30
1,2,4-Trichlorobenzene
Concen: 42.568 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:180 Resp: 518388

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.8	115.2
145	31.3	26.4	39.6



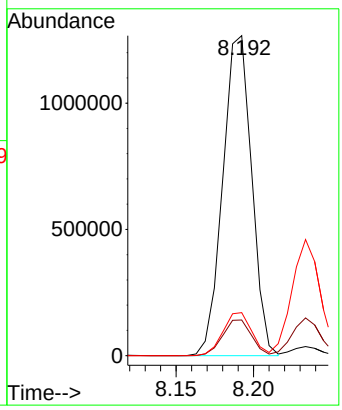


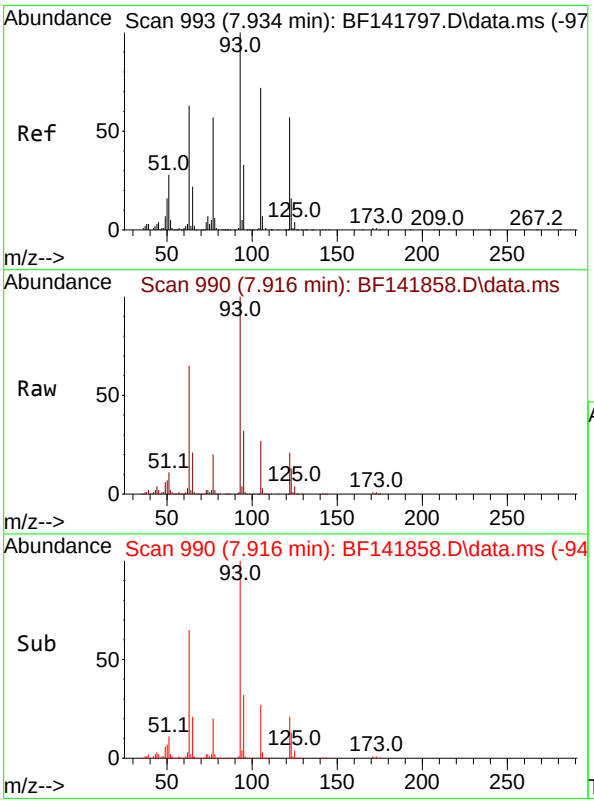
#31
Naphthalene
Concen: 41.026 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1644085

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.4	11.0	16.4

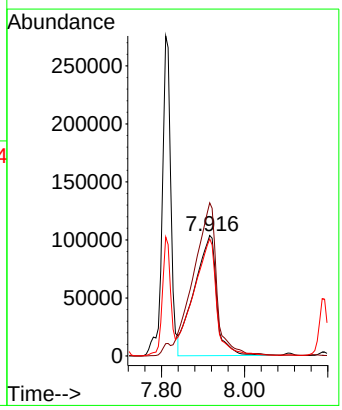


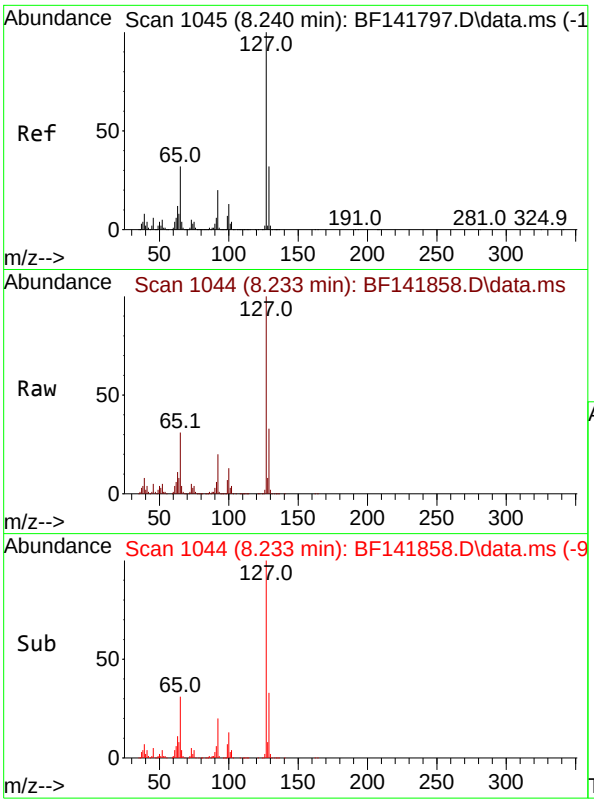


#32
Benzoic acid
Concen: 48.428 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.018 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:122 Resp: 390032

Ion	Ratio	Lower	Upper
122	100		
105	127.1	105.8	145.8
77	97.3	79.9	119.9



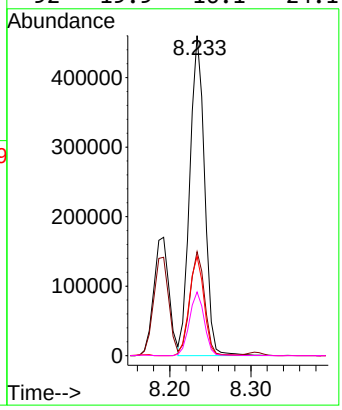


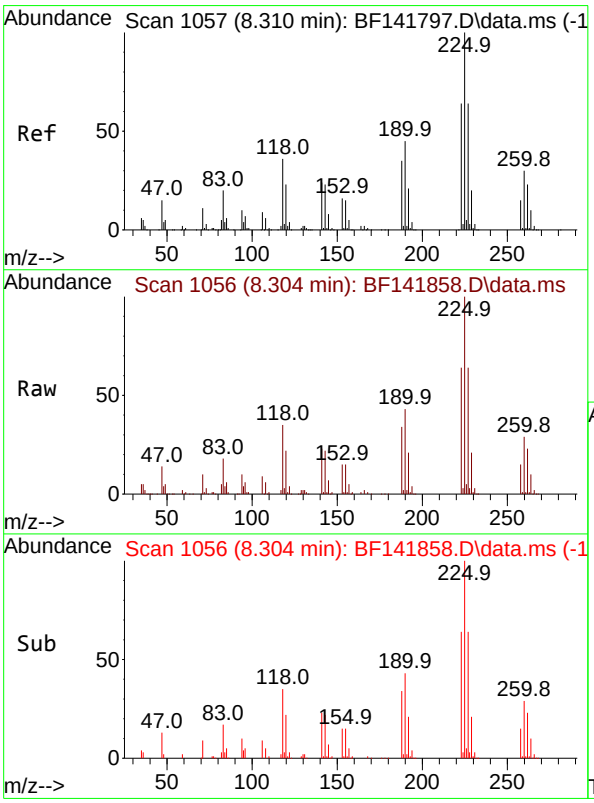
#33
4-Chloroaniline
Concen: 39.713 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 583547

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.1	39.1
65	31.0	25.7	38.5
92	19.9	16.1	24.1

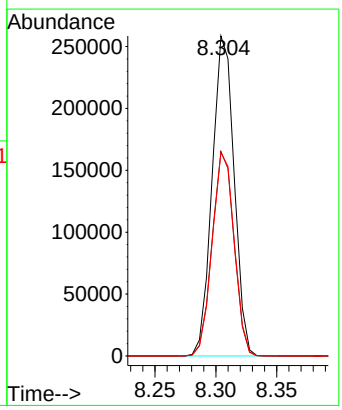


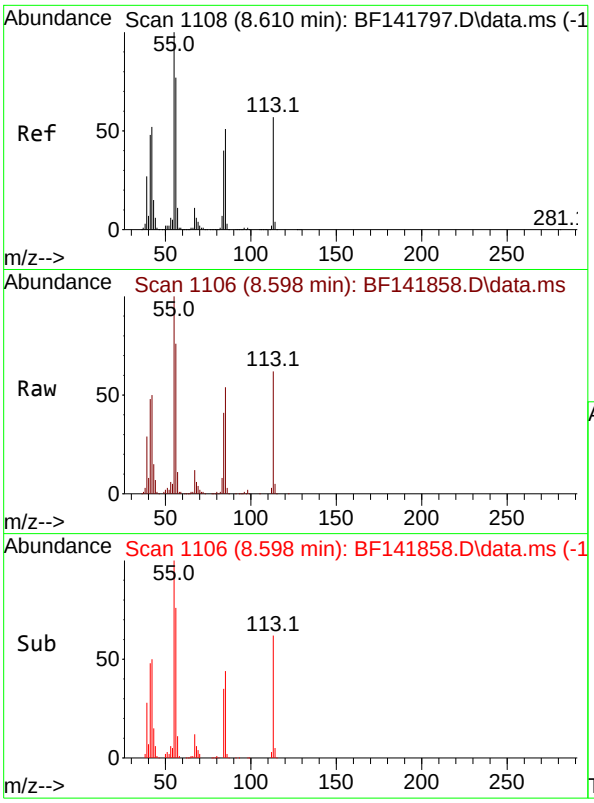


#34
Hexachlorobutadiene
Concen: 42.902 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:225 Resp: 324659

Ion	Ratio	Lower	Upper
225	100		
223	63.9	51.4	77.2
227	63.6	51.6	77.4



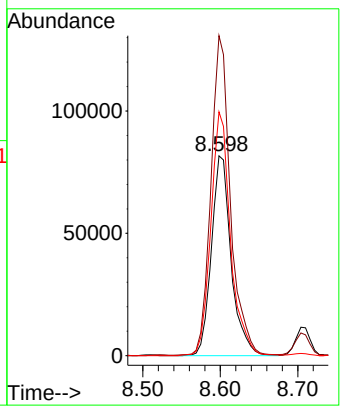


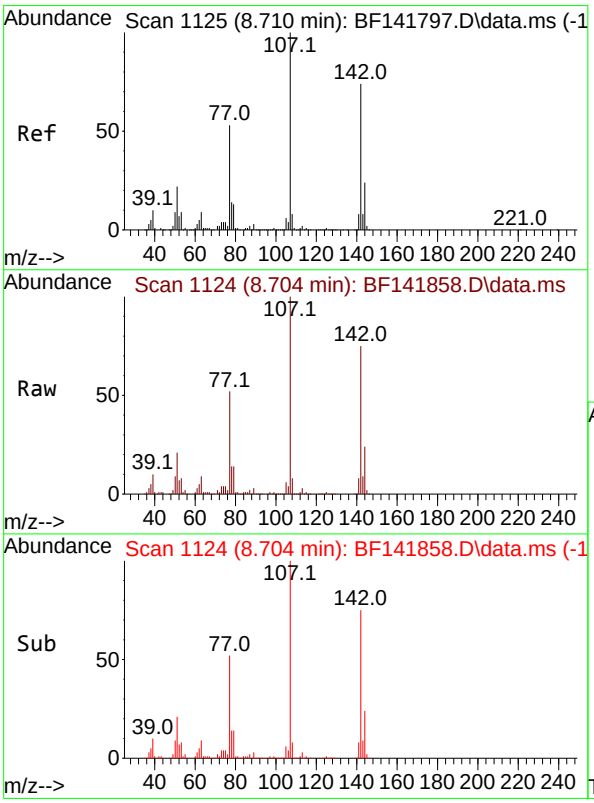
#35
Caprolactam
Concen: 42.235 ng
RT: 8.598 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 144396

Ion	Ratio	Lower	Upper
113	100		
55	160.1	155.6	195.6
56	122.0	114.6	154.6

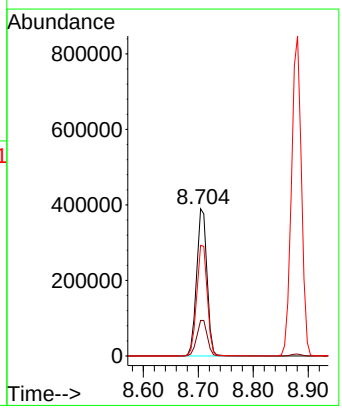


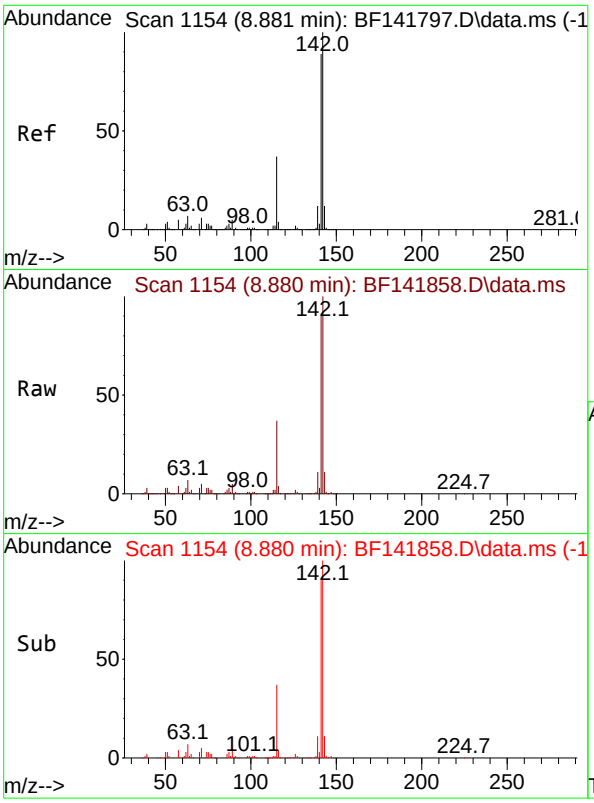


#36
4-Chloro-3-methylphenol
Concen: 41.661 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:107 Resp: 514325

Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.4	29.0
142	75.1	59.4	89.0



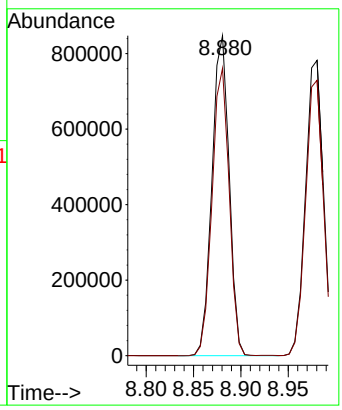


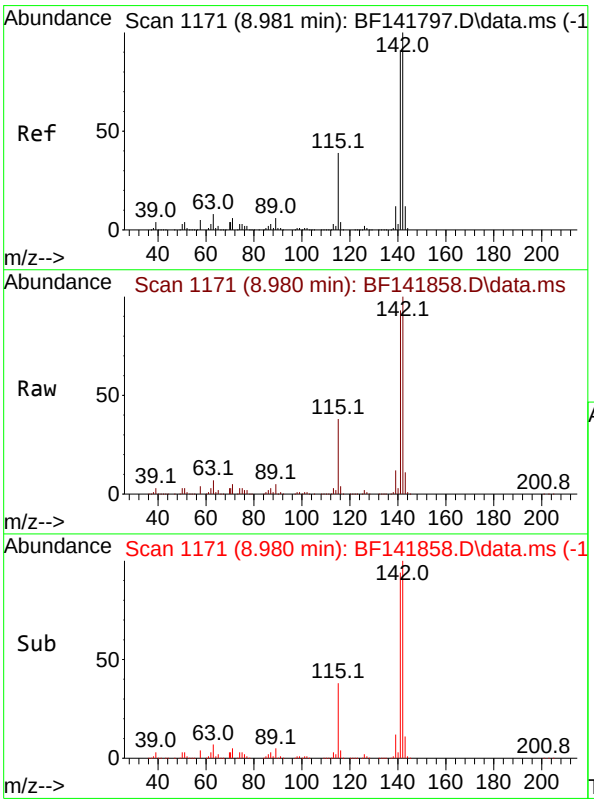
#37
2-Methylnaphthalene
Concen: 40.571 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 1066438

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.1	106.7

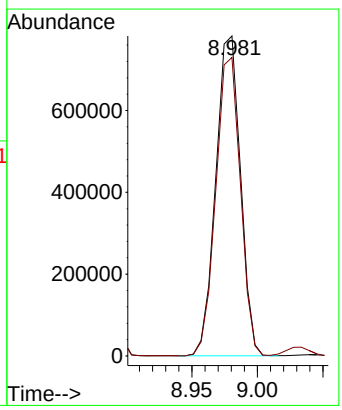


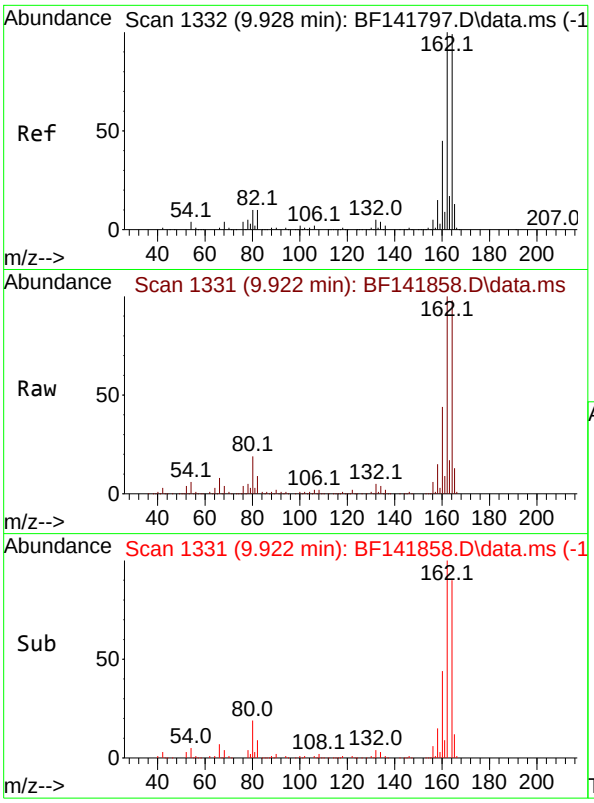


#38
1-Methylnaphthalene
Concen: 40.609 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:142 Resp: 1024218

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.1	109.7



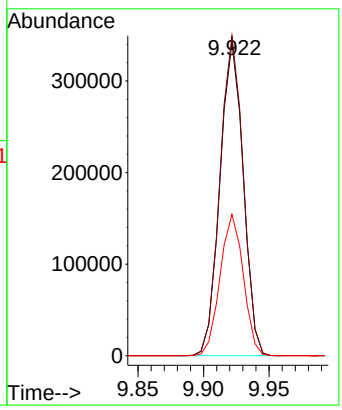


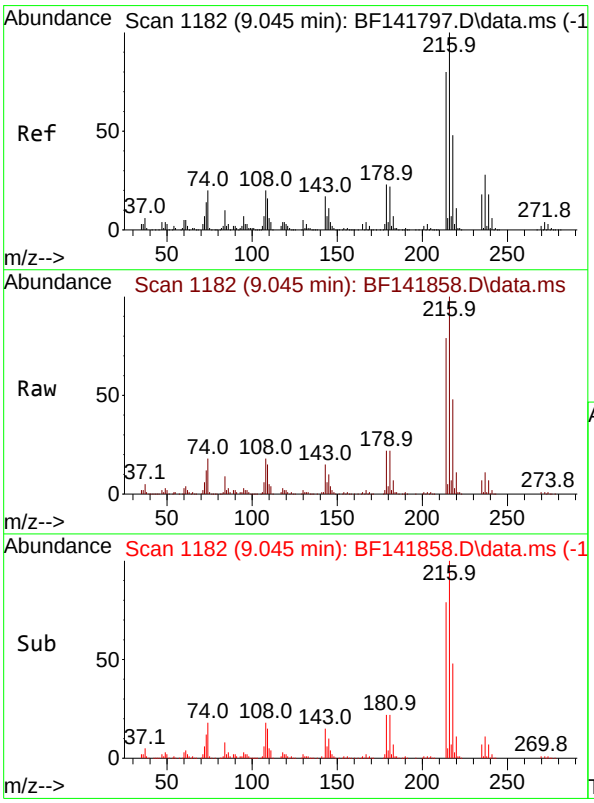
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 422269

Ion	Ratio	Lower	Upper
164	100		
162	102.2	80.6	120.8
160	45.1	36.3	54.5

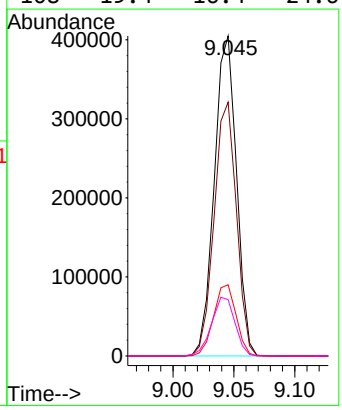


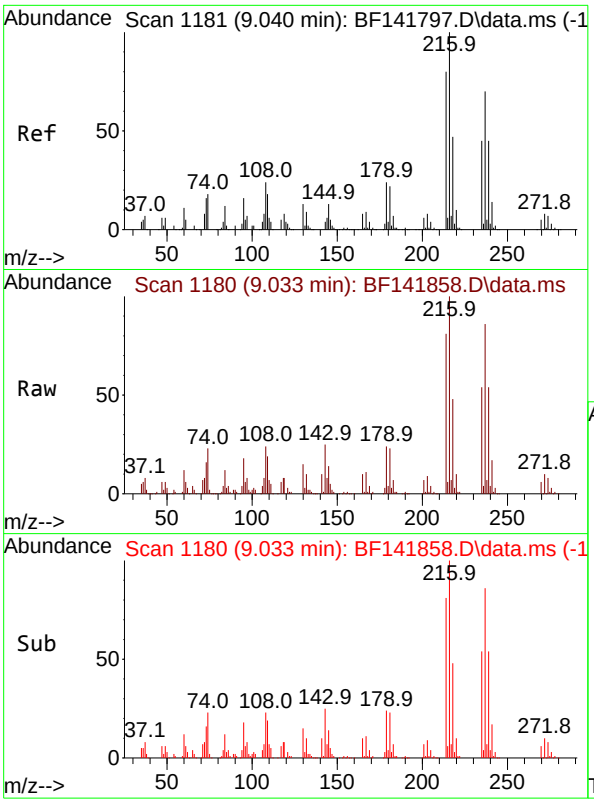


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.066 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:216 Resp: 513015

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.5	95.3
179	22.6	18.1	27.1
108	19.4	16.4	24.6



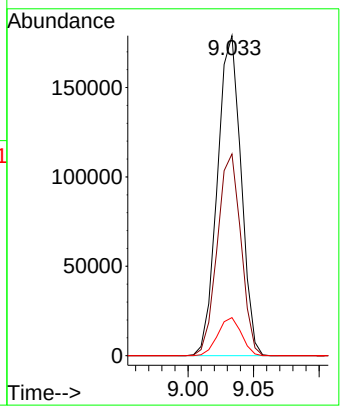


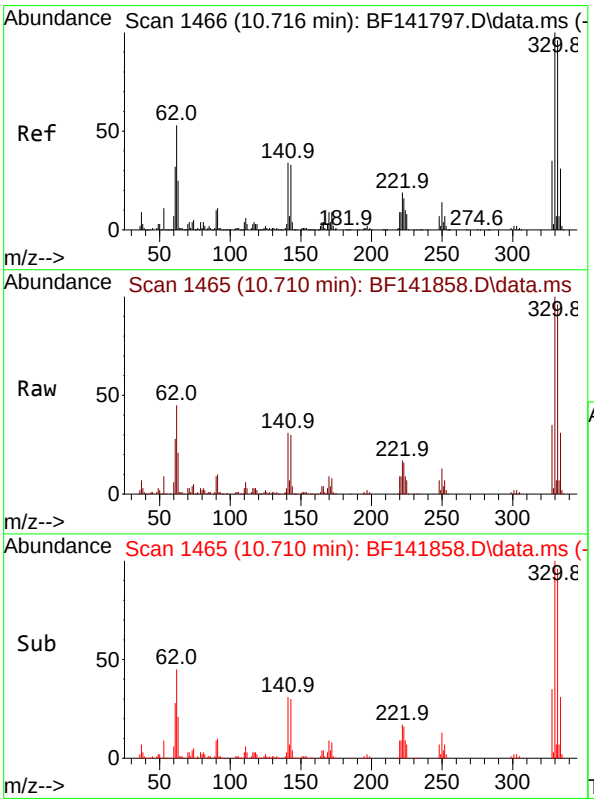
#41
Hexachlorocyclopentadiene
Concen: 44.067 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 224284

Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.3	83.3
272	11.9	0.0	31.9

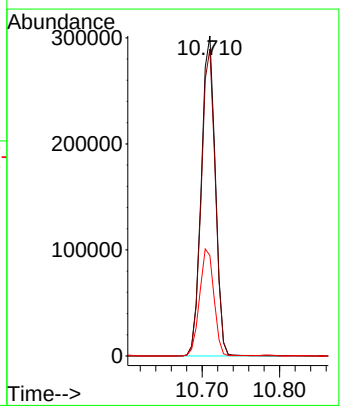


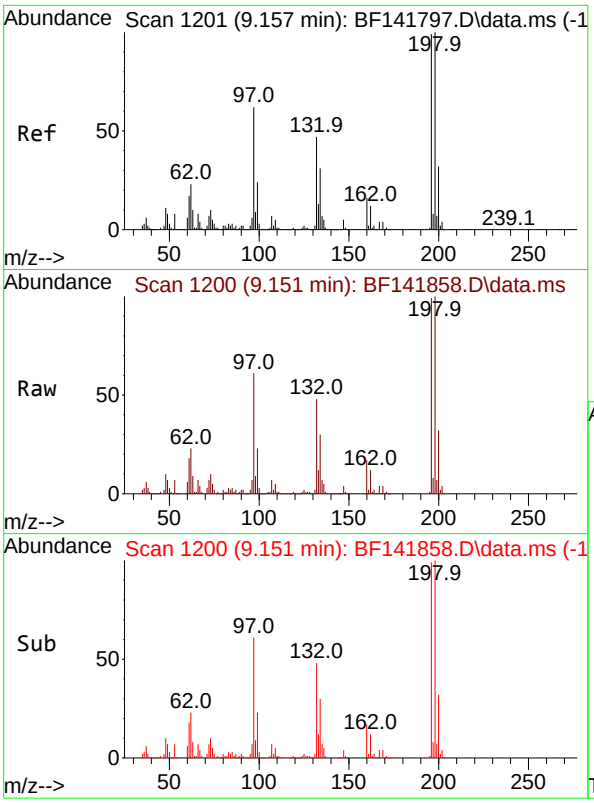


#42
2,4,6-Tribromophenol
Concen: 95.540 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:330 Resp: 378753

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.6	115.0
141	34.3	29.0	43.4



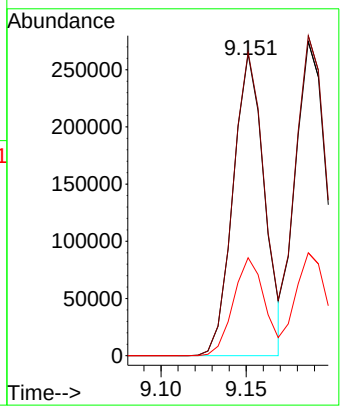


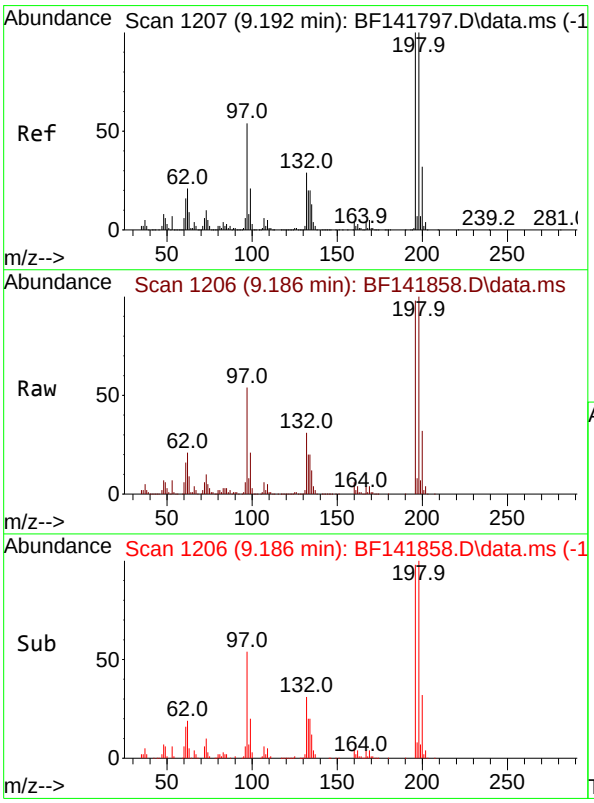
#43
2,4,6-Trichlorophenol
Concen: 42.772 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 336951

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.4	120.6
200	32.4	25.7	38.5

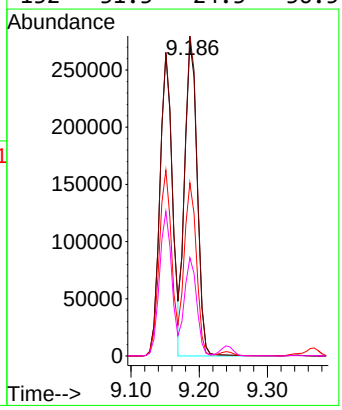


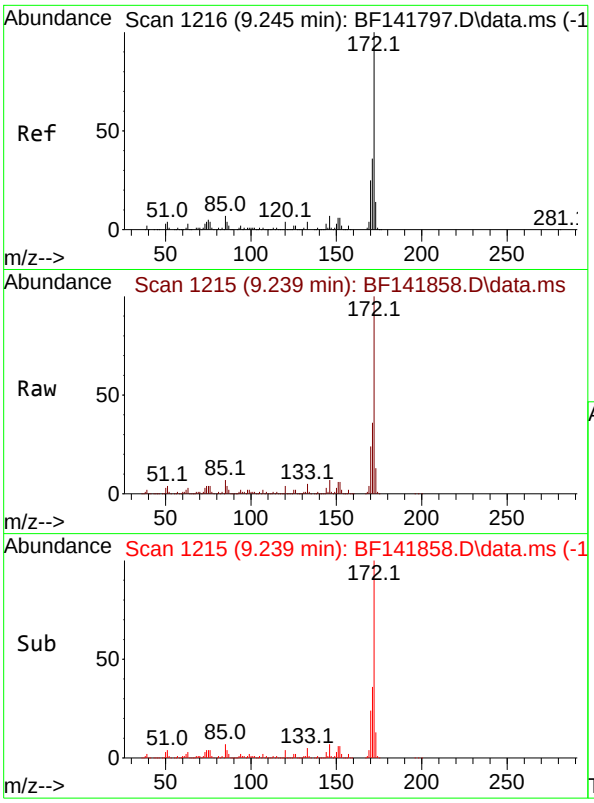


#44
2,4,5-Trichlorophenol
Concen: 44.739 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:196 Resp: 349000

Ion	Ratio	Lower	Upper
196	100		
198	101.9	79.7	119.5
97	55.1	44.2	66.2
132	31.3	24.3	36.5



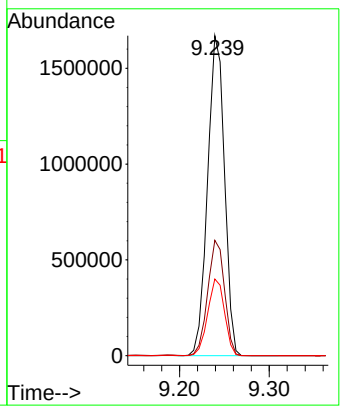


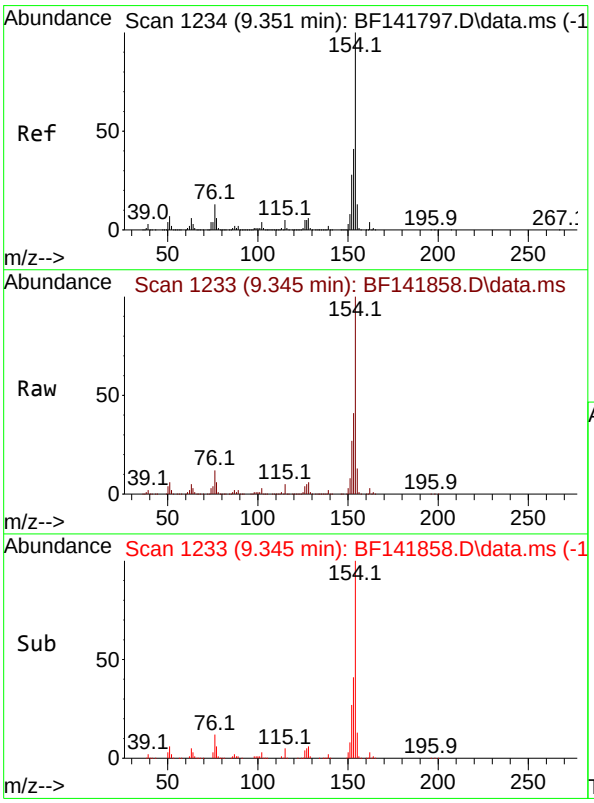
#45
2-Fluorobiphenyl
Concen: 82.849 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2181831

Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.2	43.8
170	24.0	19.7	29.5

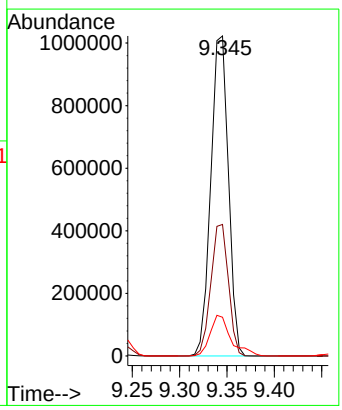


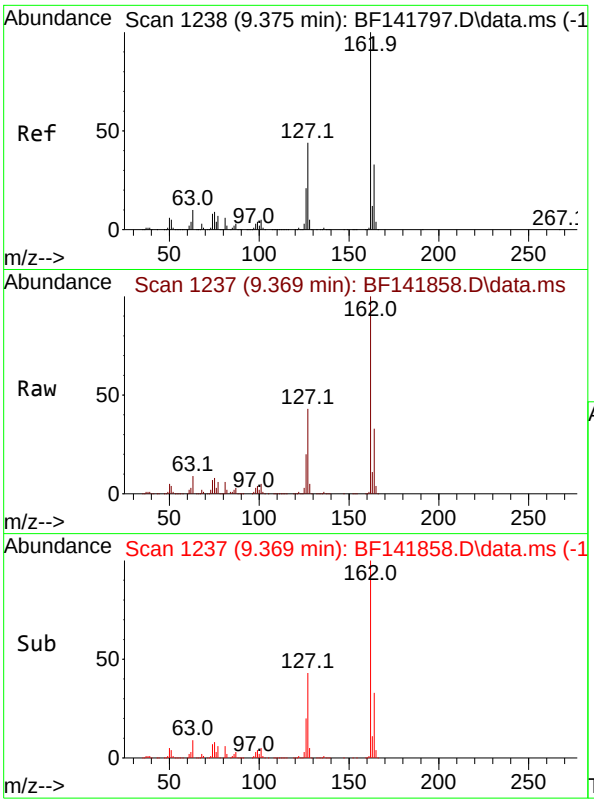


#46
1,1'-Biphenyl
Concen: 40.994 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:154 Resp: 1317612

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.4	61.4
76	12.1	0.0	33.4



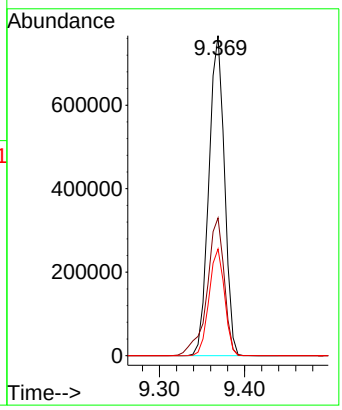


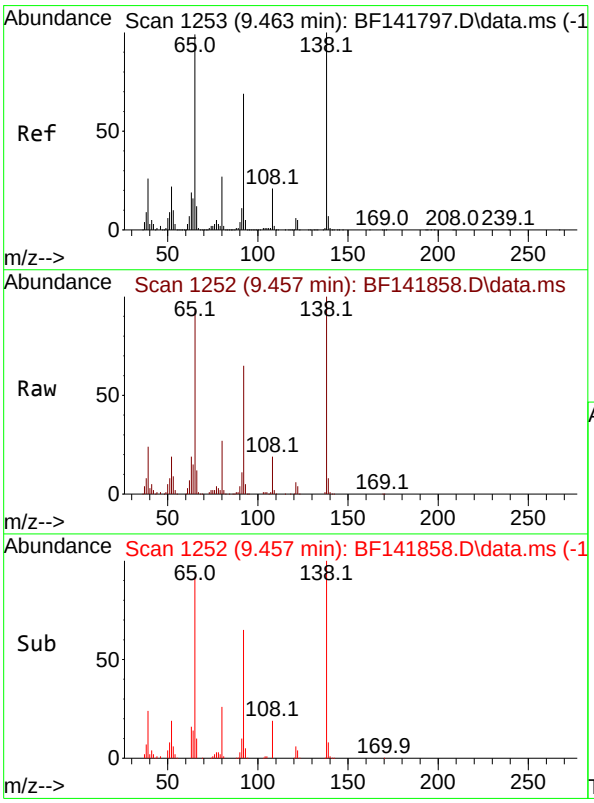
#47
2-Chloronaphthalene
Concen: 41.199 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 977366

Ion	Ratio	Lower	Upper
162	100		
127	43.1	35.0	52.6
164	33.4	26.6	40.0

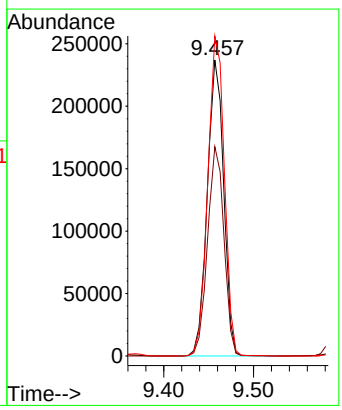


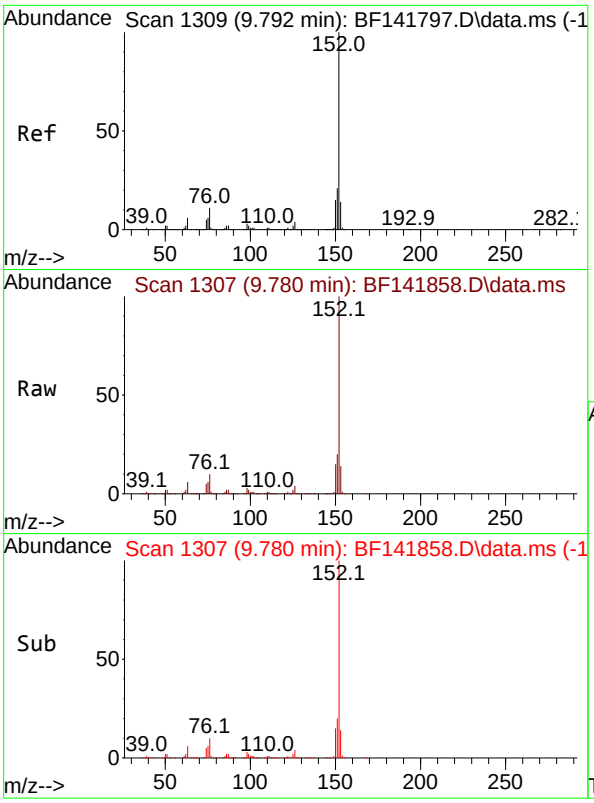


#48
2-Nitroaniline
Concen: 46.508 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion: 65 Resp: 301038

Ion	Ratio	Lower	Upper
65	100		
92	70.7	55.7	83.5
138	108.1	80.6	121.0



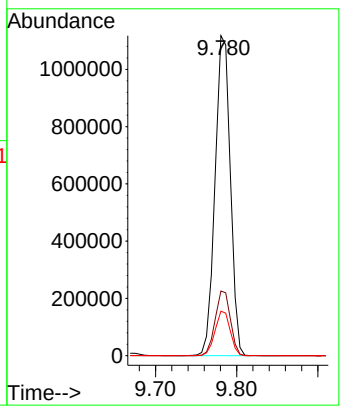


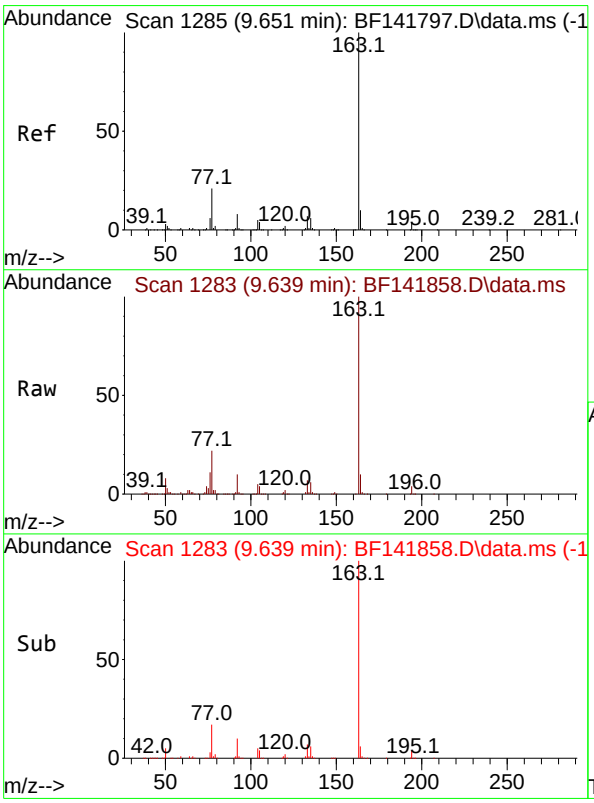
#49
Acenaphthylene
Concen: 41.204 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1465550

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	13.9	11.2	16.8

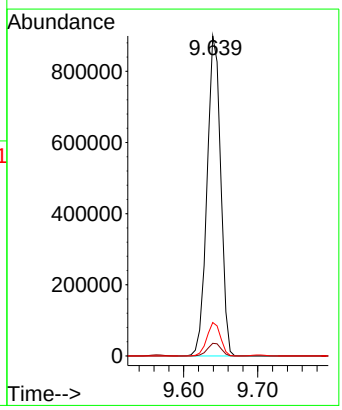


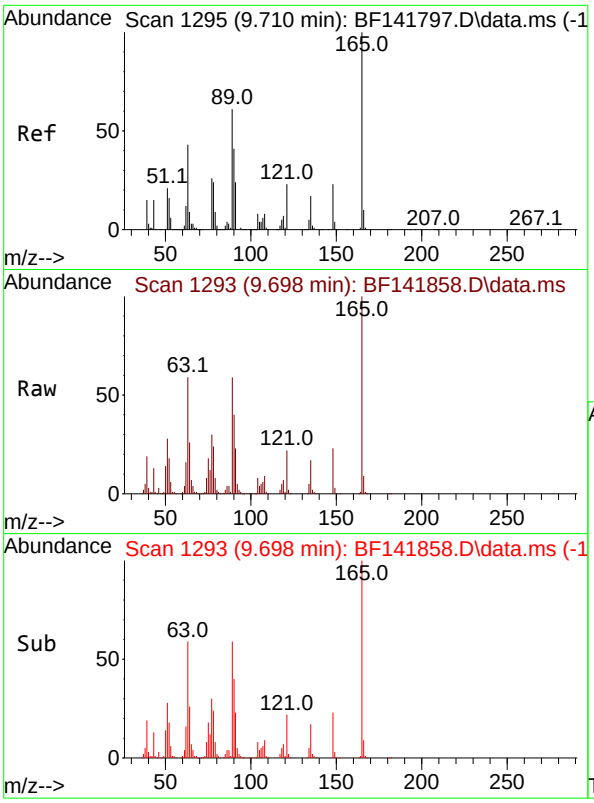


#50
Dimethylphthalate
Concen: 40.693 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:163 Resp: 1150740

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.5	8.4	12.6



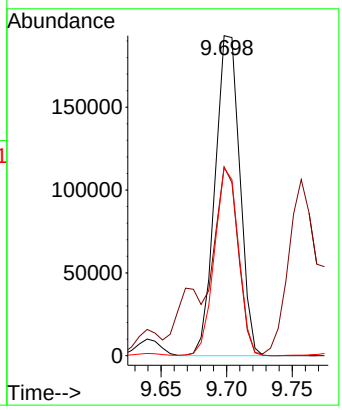


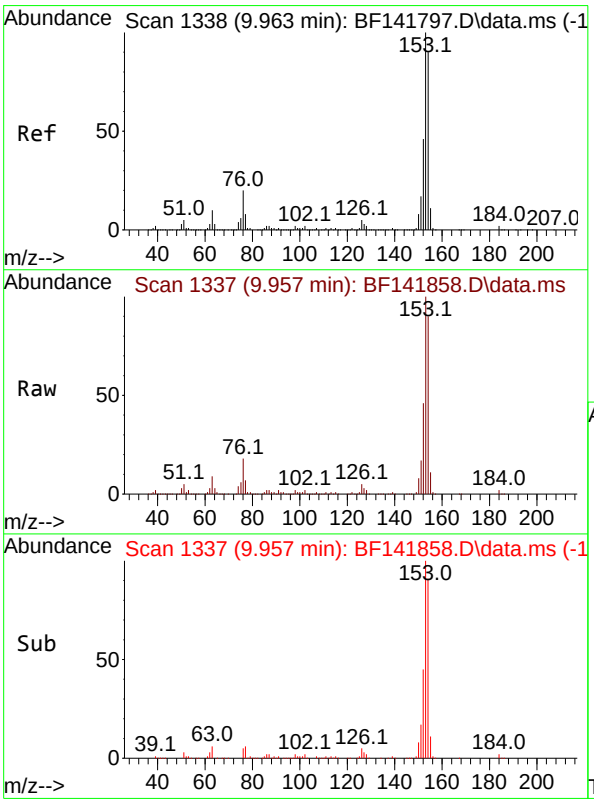
#51
2,6-Dinitrotoluene
Concen: 46.842 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 253007

Ion	Ratio	Lower	Upper
165	100		
63	59.0	49.5	74.3
89	58.7	49.0	73.4

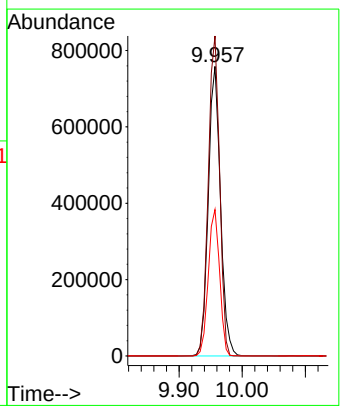


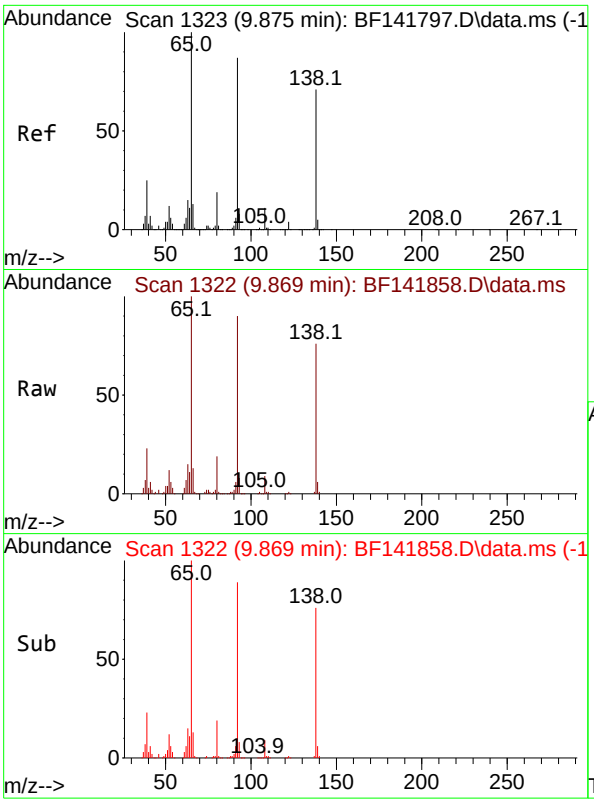


#52
Acenaphthene
Concen: 42.527 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:154 Resp: 1020635

Ion	Ratio	Lower	Upper
154	100		
153	110.5	88.7	133.1
152	50.5	40.9	61.3



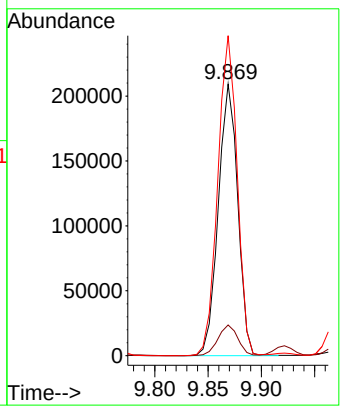


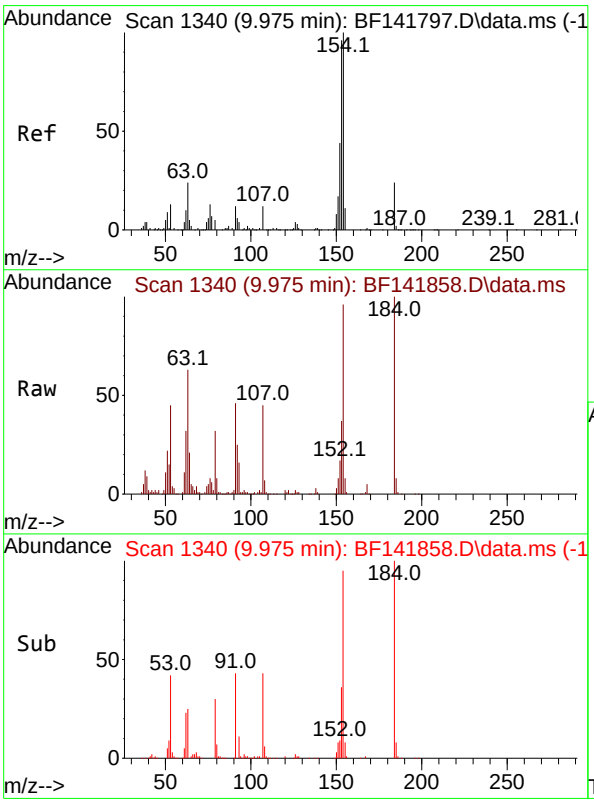
#53
3-Nitroaniline
Concen: 46.137 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 265149

Ion	Ratio	Lower	Upper
138	100		
108	11.3	12.7	19.1#
92	117.8	97.9	146.9

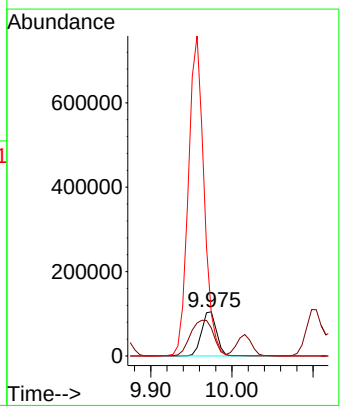


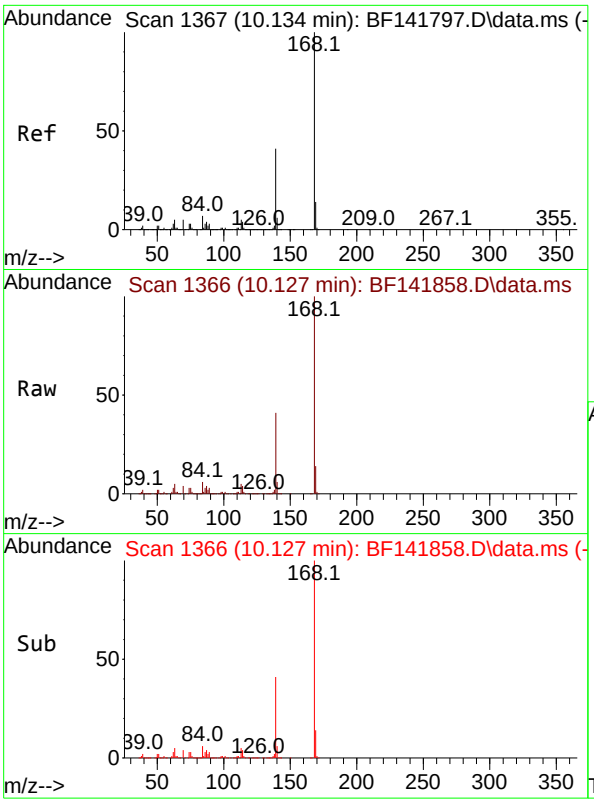


#54
2,4-Dinitrophenol
Concen: 59.722 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:184 Resp: 134035

Ion	Ratio	Lower	Upper
184	100		
63	63.5	79.0	118.6#
154	95.7	335.8	503.8#



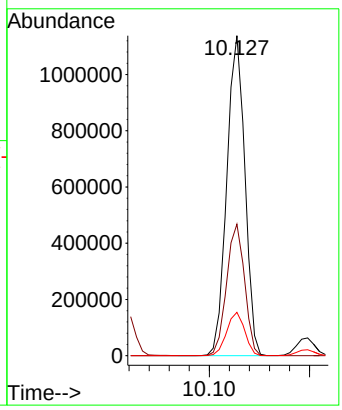


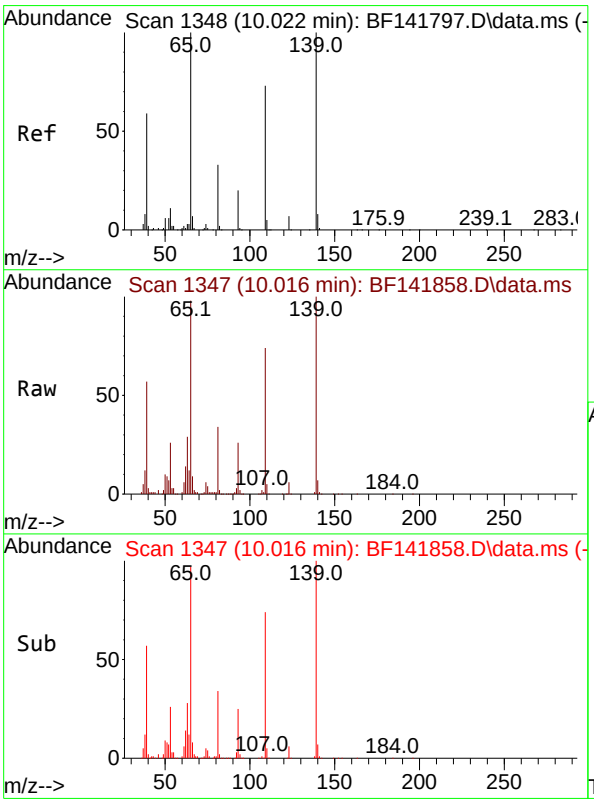
#55
Dibenzofuran
Concen: 40.671 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1420674

Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.9	49.3
169	13.5	11.1	16.7

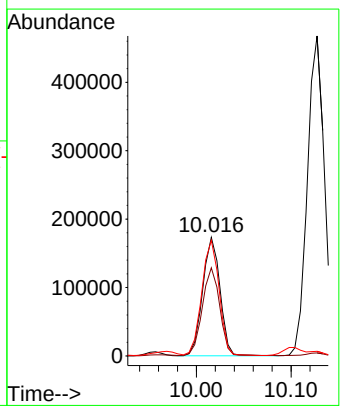


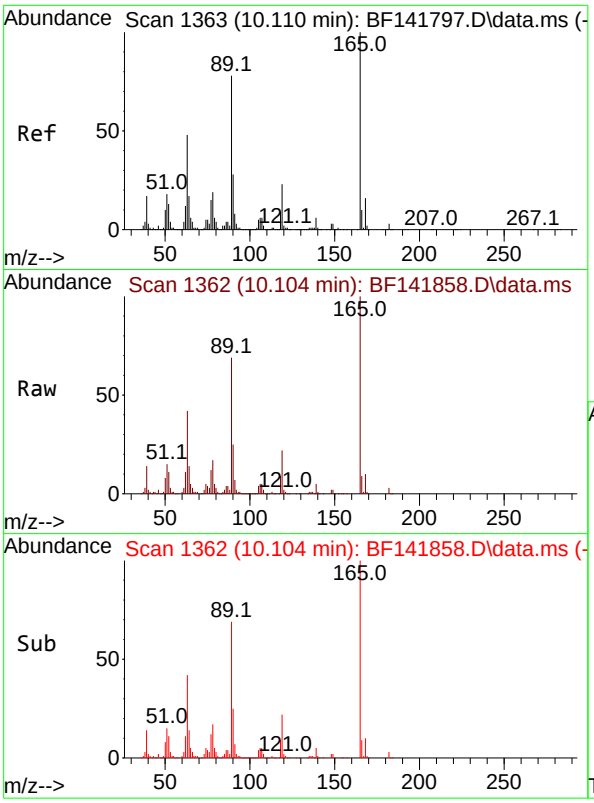


#56
4-Nitrophenol
Concen: 52.954 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:139 Resp: 221169

Ion	Ratio	Lower	Upper
139	100		
109	74.4	53.4	93.4
65	97.6	82.1	122.1



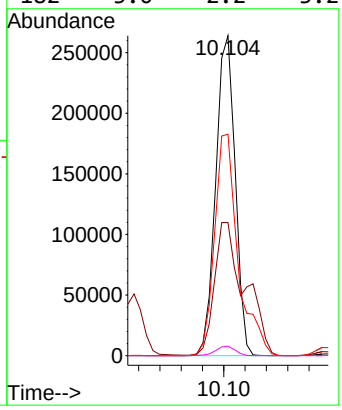


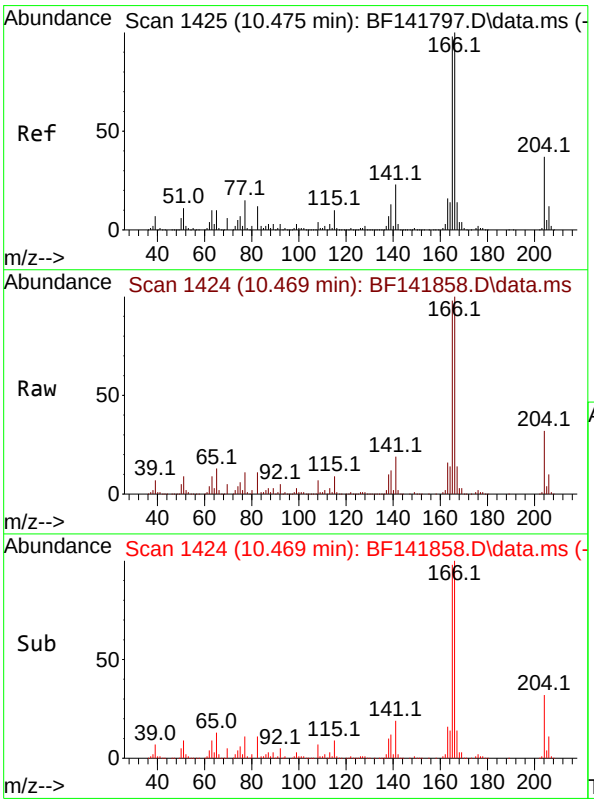
#57
2,4-Dinitrotoluene
Concen: 50.419 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 334417

Ion	Ratio	Lower	Upper
165	100		
63	41.6	38.8	58.2
89	69.2	62.6	94.0
182	3.0	2.2	3.2

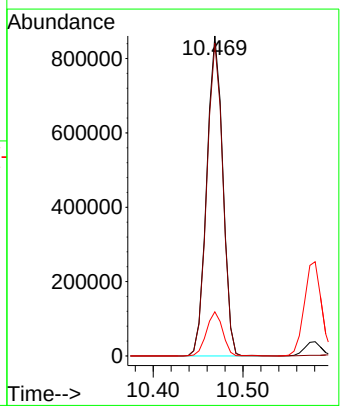


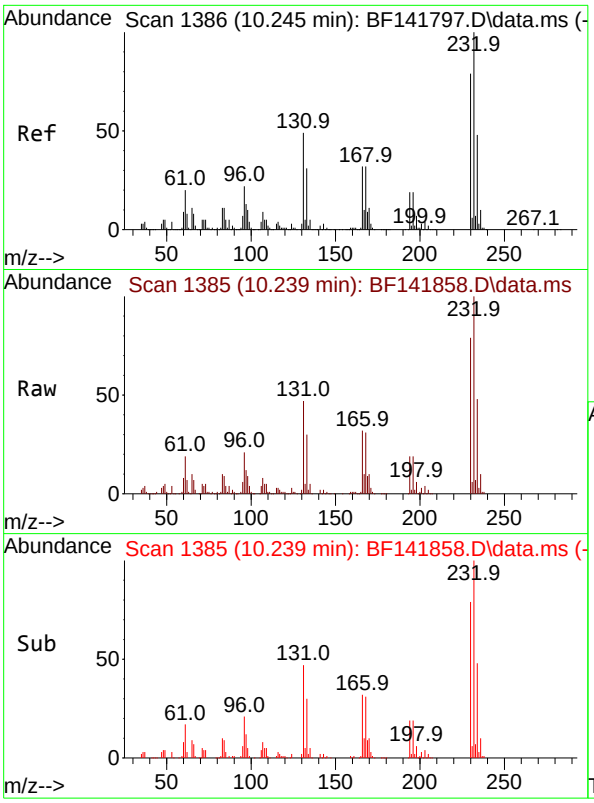


#58
Fluorene
Concen: 41.003 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:166 Resp: 1072855

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.6	117.8
167	13.8	11.0	16.4



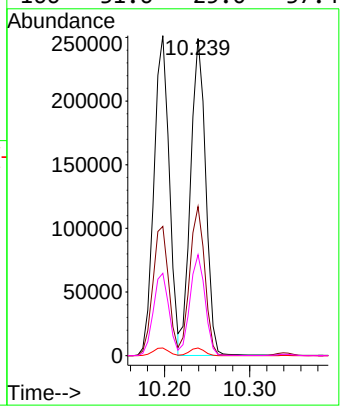


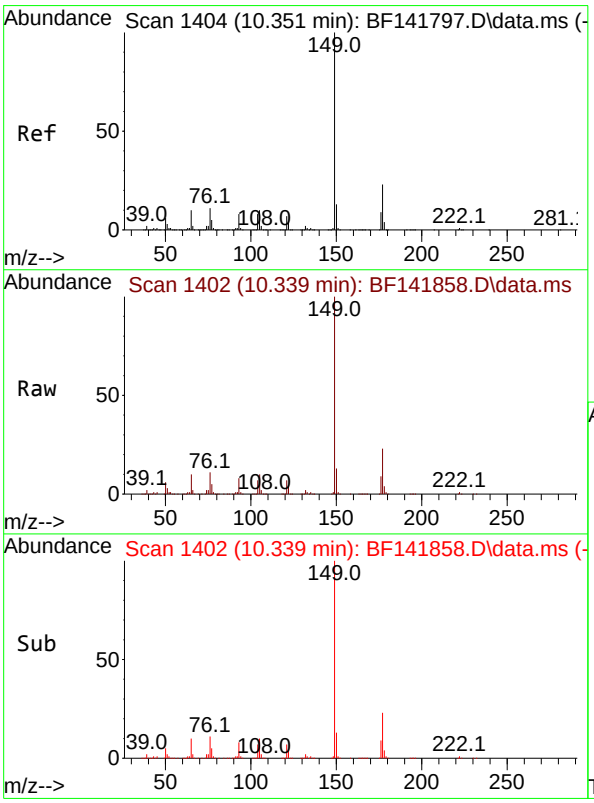
#59
2,3,4,6-Tetrachlorophenol
Concen: 45.123 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 306137

Ion	Ratio	Lower	Upper
232	100		
131	47.1	37.8	56.8
130	2.4	2.0	3.0
166	31.6	25.0	37.4

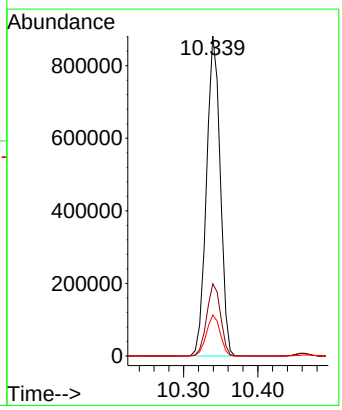


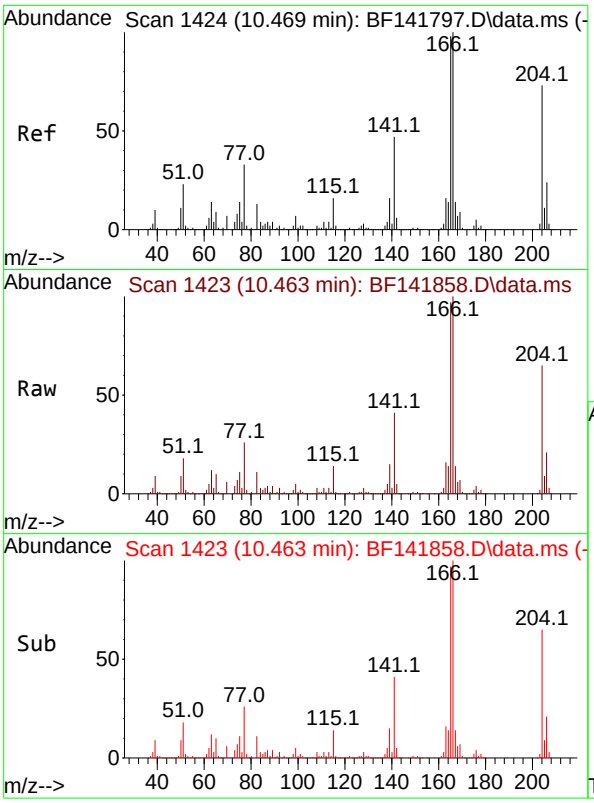


#60
Diethylphthalate
Concen: 40.052 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 1135424

Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.3	27.5
150	12.8	10.3	15.5



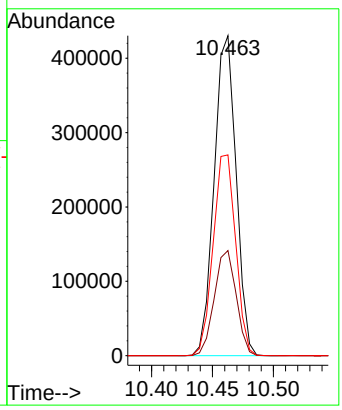


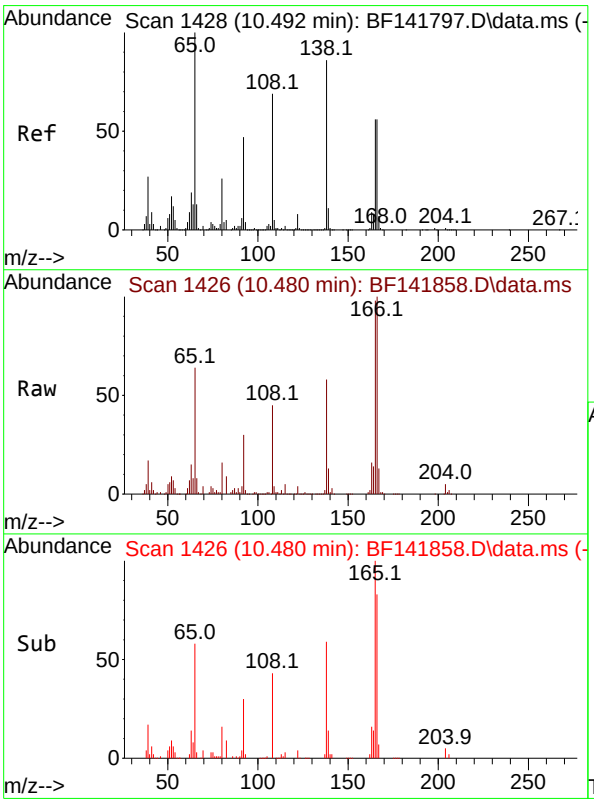
#61
4-Chlorophenyl-phenylether
Concen: 41.246 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 540721

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	62.8	51.7	77.5

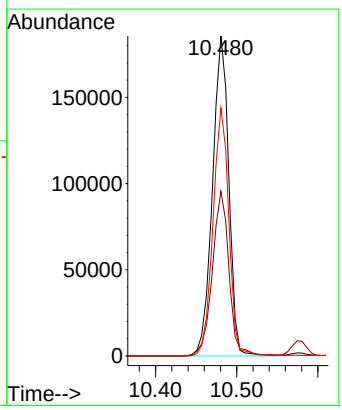


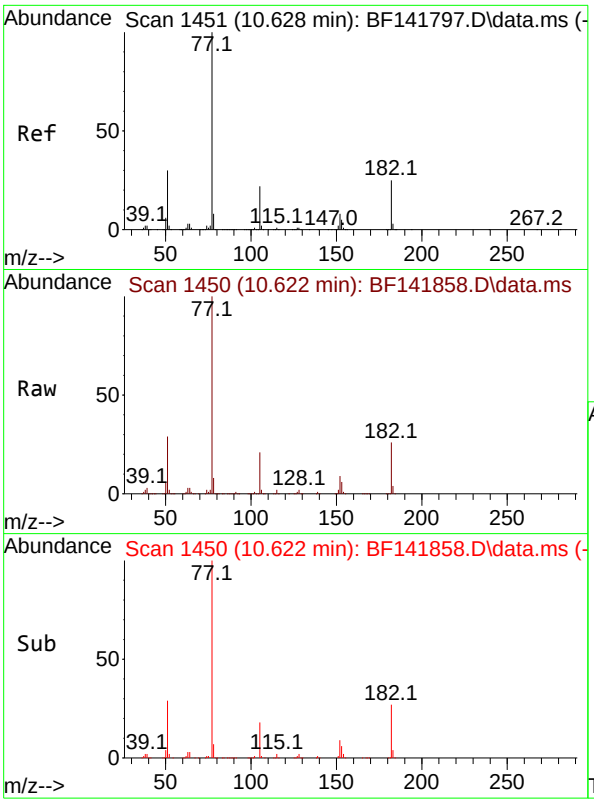


#62
4-Nitroaniline
Concen: 53.688 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:138 Resp: 259275

Ion	Ratio	Lower	Upper
138	100		
92	51.4	34.9	74.9
108	77.5	59.6	99.6



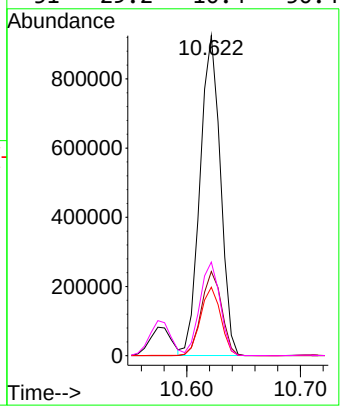


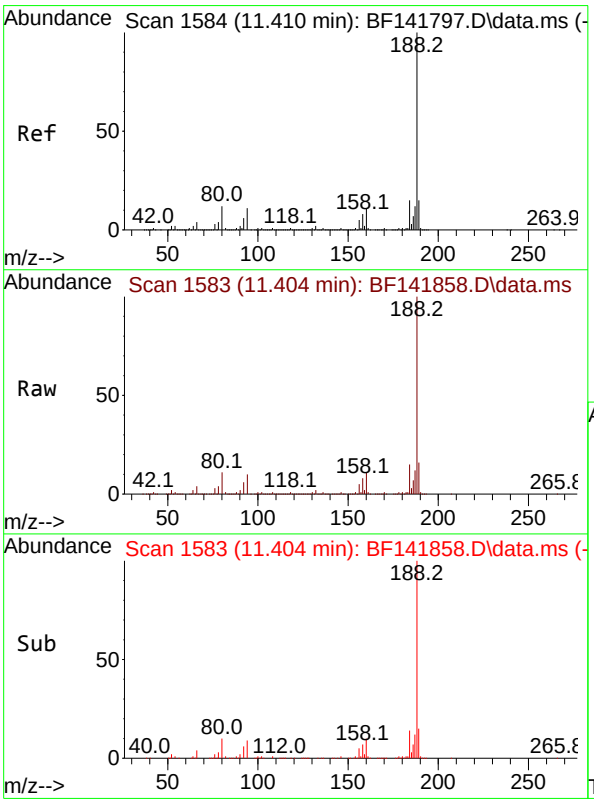
#63
Azobenzene
Concen: 38.422 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1146863

Ion	Ratio	Lower	Upper
77	100		
182	26.3	4.2	44.2
105	21.4	1.5	41.5
51	29.2	10.4	50.4

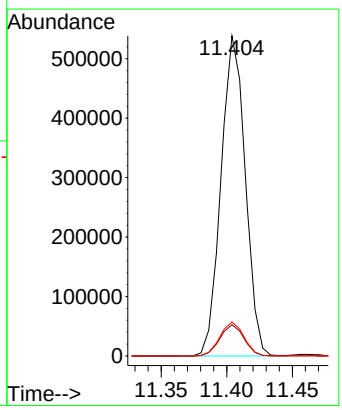


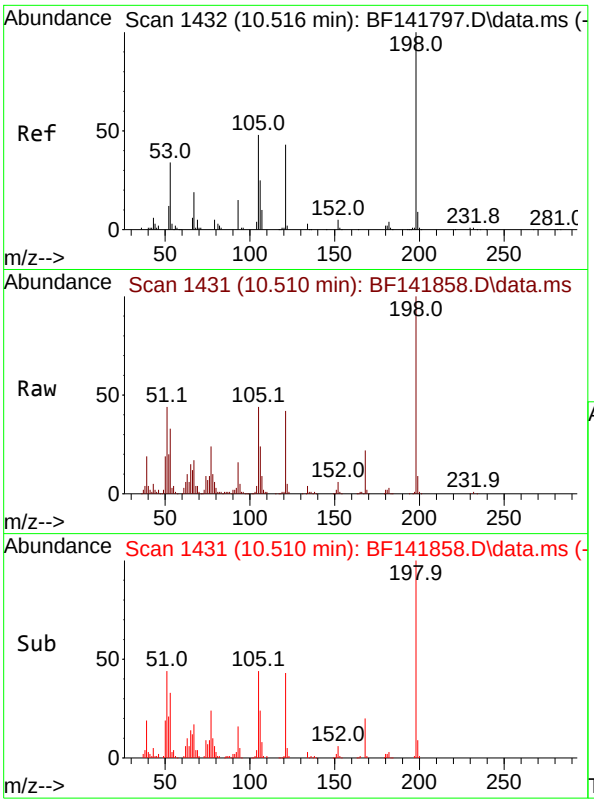


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:188 Resp: 691934

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.9	13.3
80	10.6	9.7	14.5



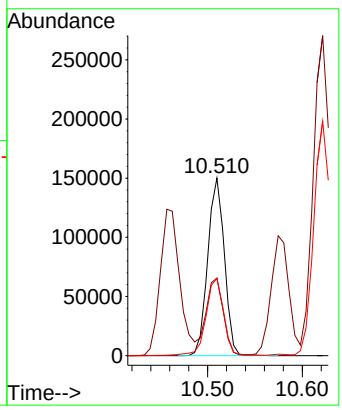


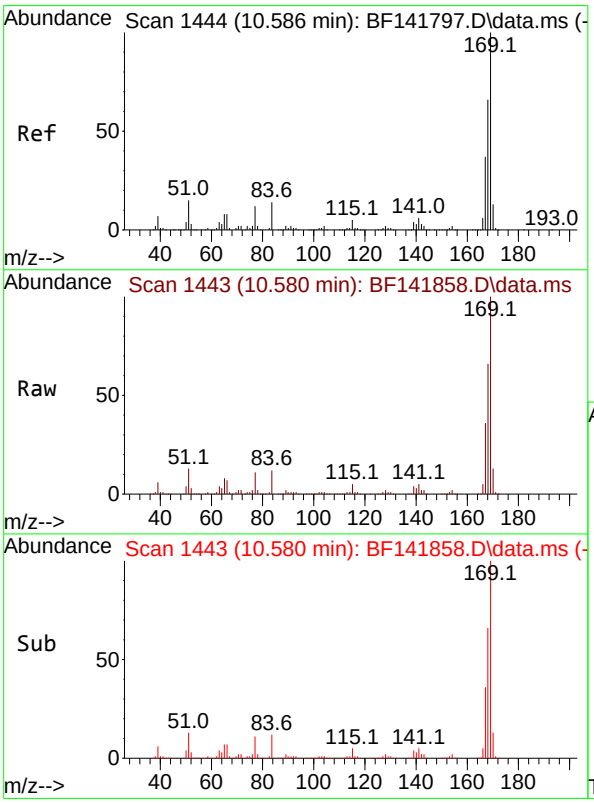
#65
4,6-Dinitro-2-methylphenol
Concen: 54.694 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 182658

Ion	Ratio	Lower	Upper
198	100		
51	43.7	32.1	72.1
105	43.6	28.5	68.5

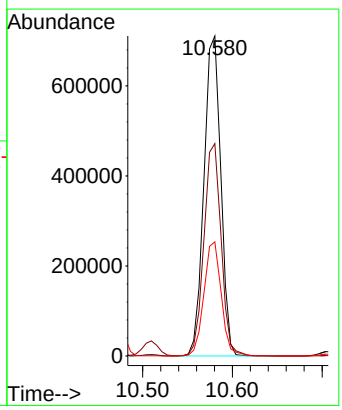


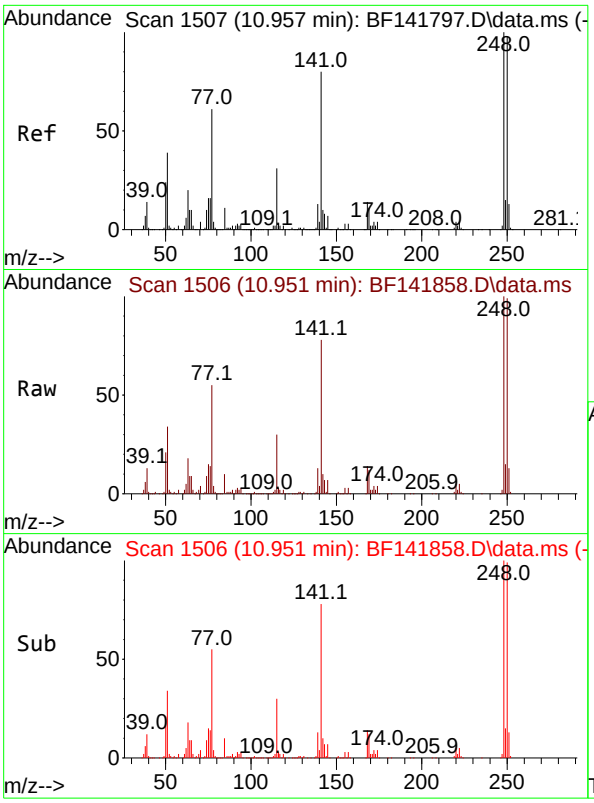


#66
n-Nitrosodiphenylamine
Concen: 40.832 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:169 Resp: 927726

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.6
167	35.7	29.3	43.9



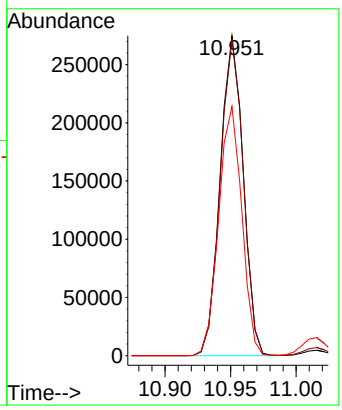


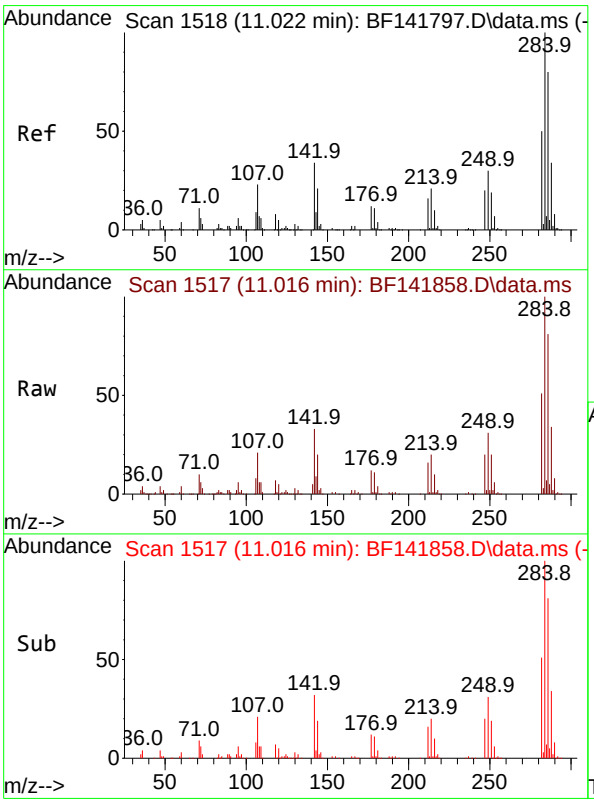
#67
4-Bromophenyl-phenylether
Concen: 41.606 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 336262

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.1	117.1
141	77.9	64.3	96.5

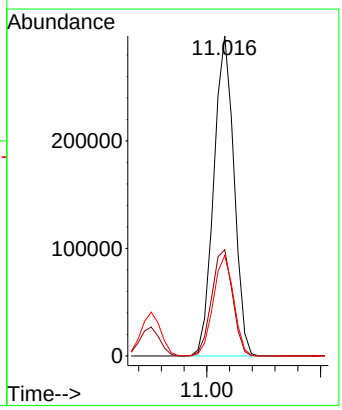


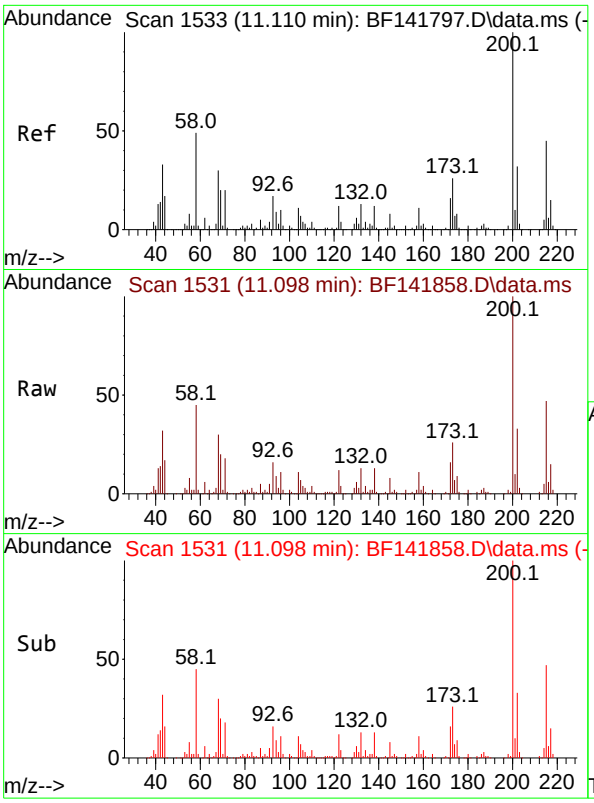


#68
Hexachlorobenzene
Concen: 43.090 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:284 Resp: 367747

Ion	Ratio	Lower	Upper
284	100		
142	33.2	28.2	42.2
249	31.4	25.5	38.3



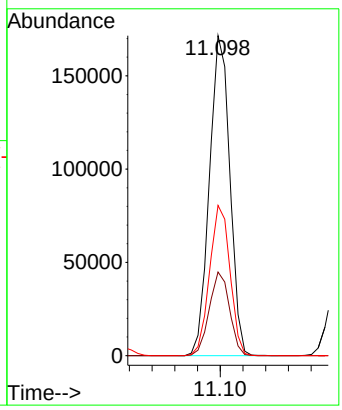


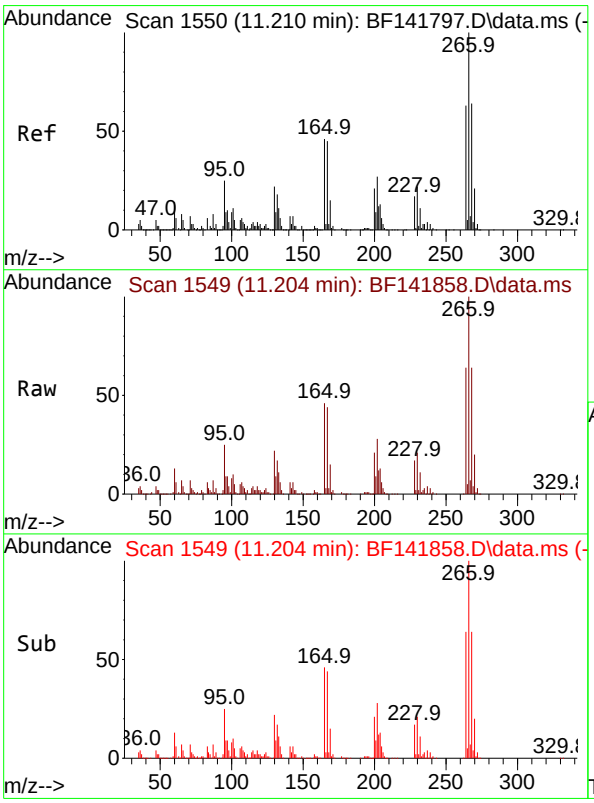
#69
Atrazine
Concen: 34.313 ng
RT: 11.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 214392

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.6	45.6
215	47.0	25.3	65.3

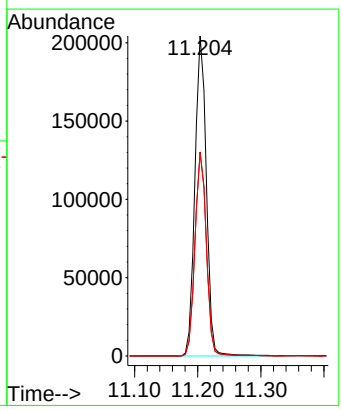


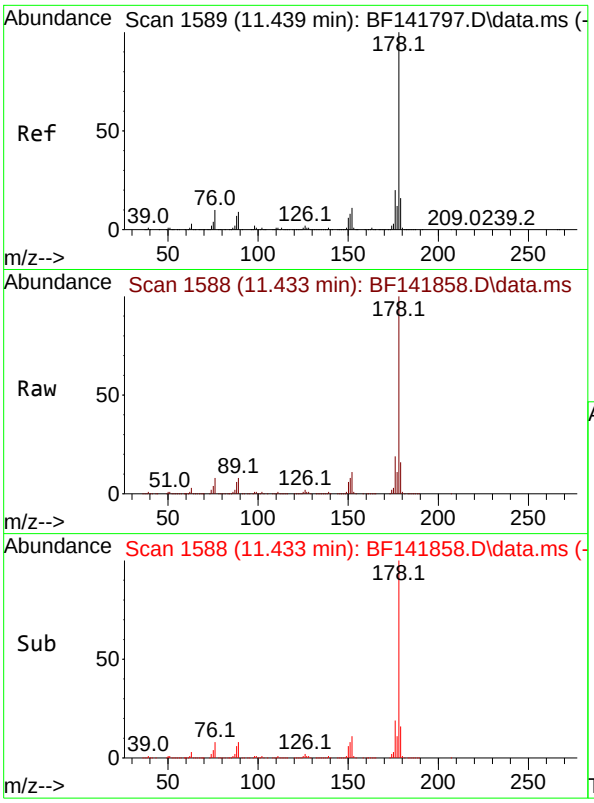


#70
Pentachlorophenol
Concen: 47.434 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:266 Resp: 256754

Ion	Ratio	Lower	Upper
266	100		
268	63.8	50.9	76.3
264	63.5	50.2	75.4



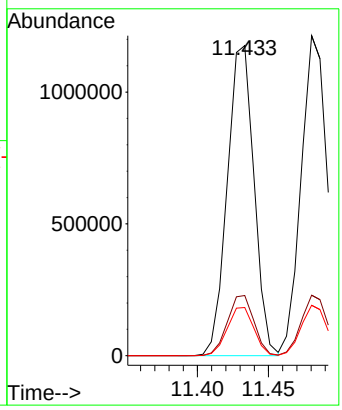


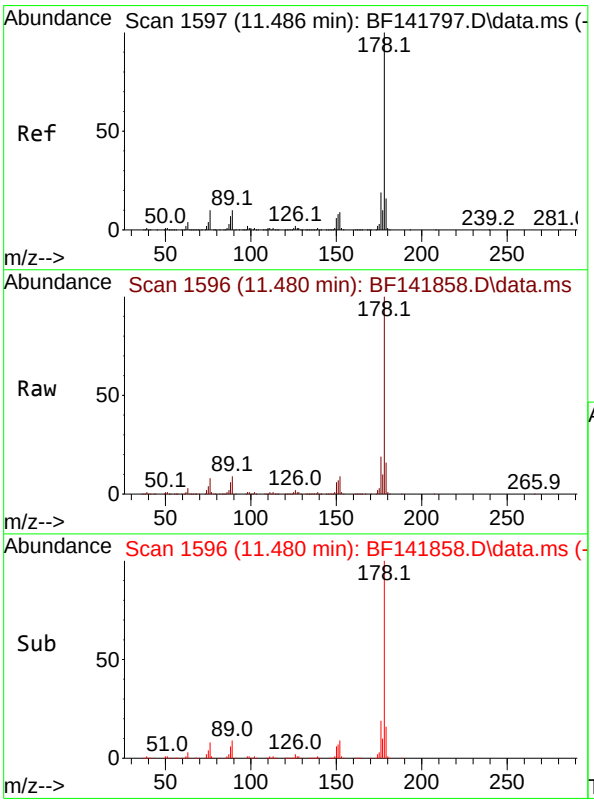
#71
Phenanthrene
Concen: 41.677 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1542542

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.0	24.0
179	15.6	12.6	19.0

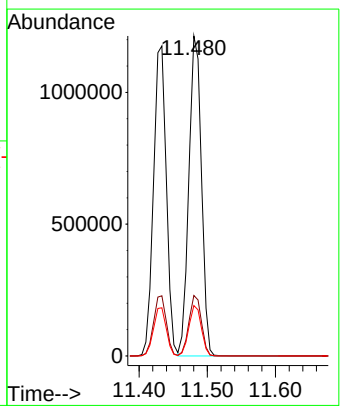


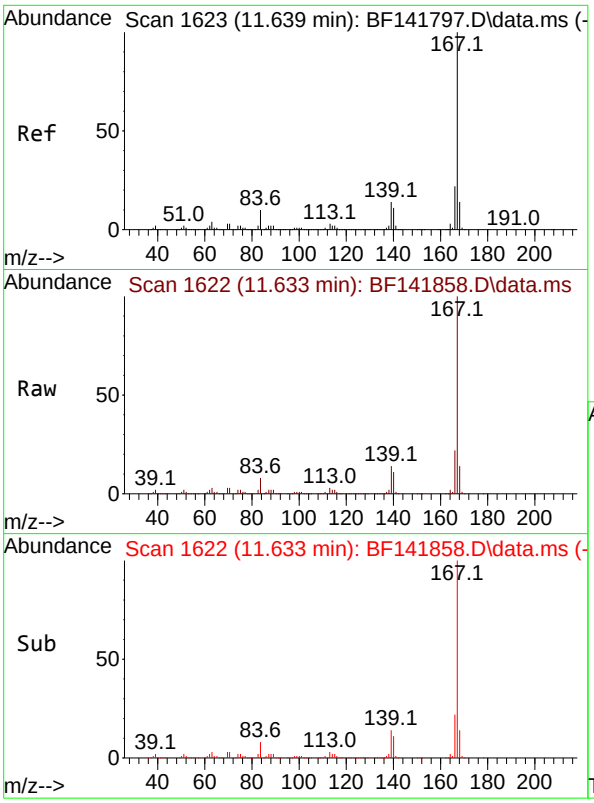


#72
Anthracene
Concen: 41.580 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:178 Resp: 1542354

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.8	12.8	19.2



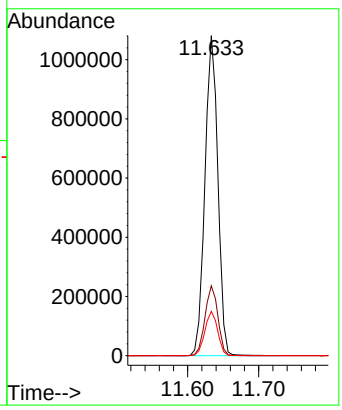


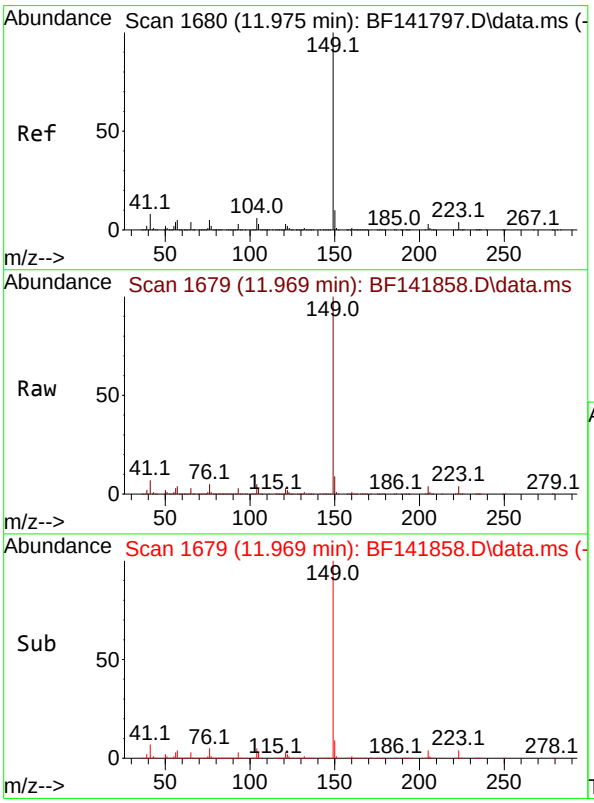
#73
Carbazole
Concen: 41.751 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1367611

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.8	11.3	16.9

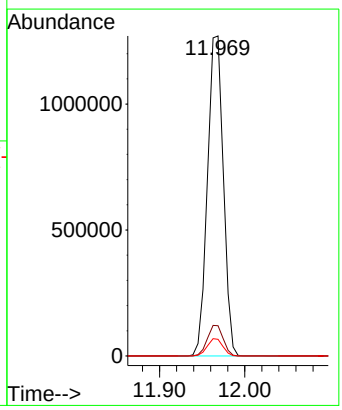


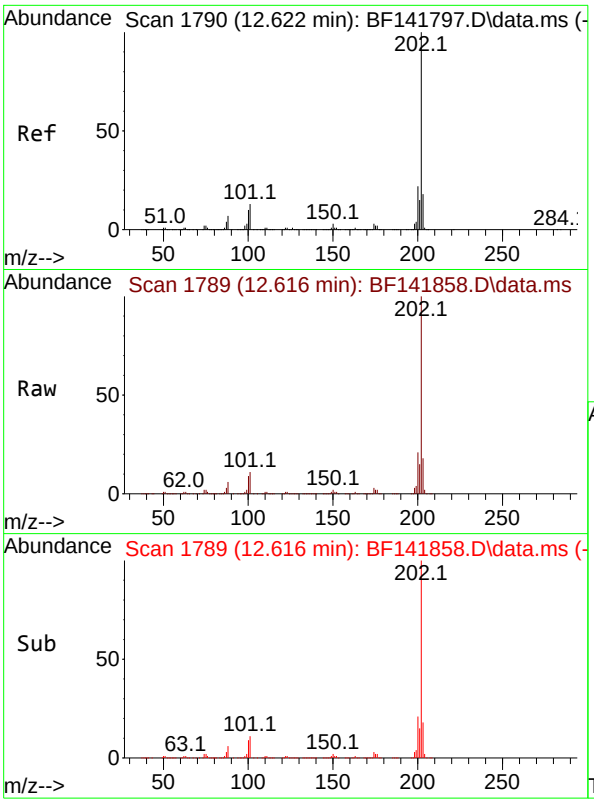


#74
Di-n-butylphthalate
Concen: 39.592 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 1643939

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.2	4.4	6.6



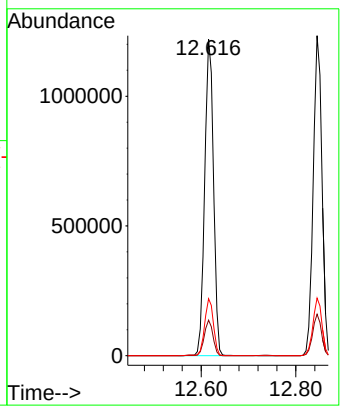


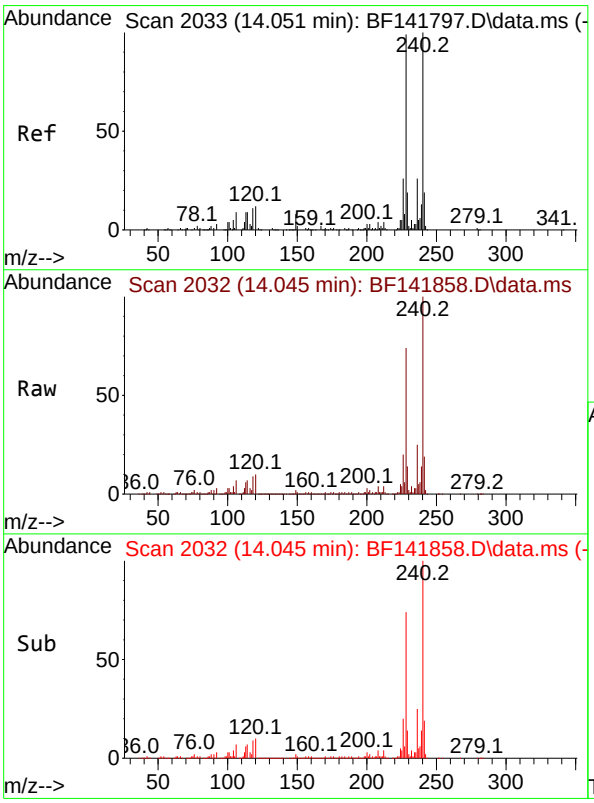
#75
Fluoranthene
Concen: 41.655 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1579732

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	32.8
203	18.0	0.0	38.0

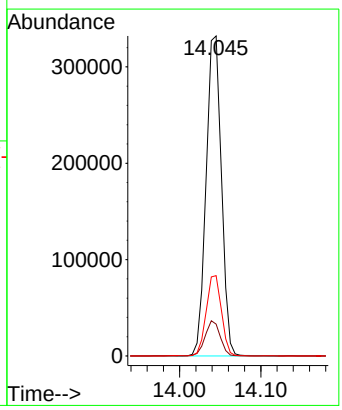


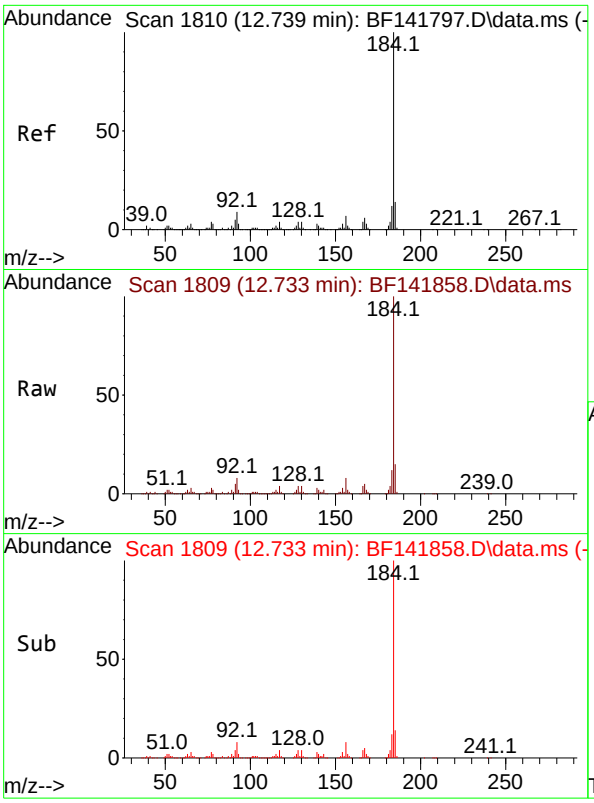


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:240 Resp: 434521

Ion	Ratio	Lower	Upper
240	100		
120	10.0	9.7	14.5
236	25.1	21.0	31.4



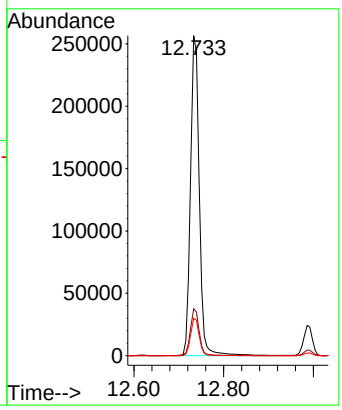


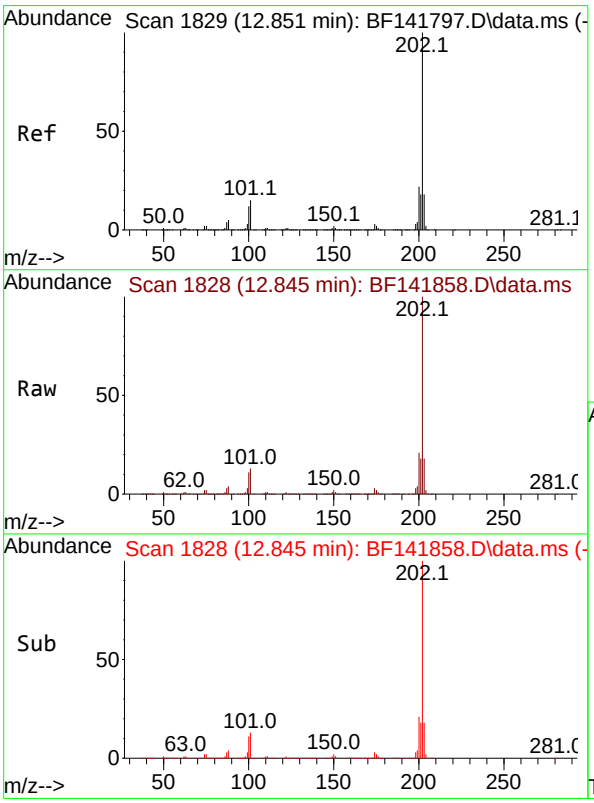
#77
Benzidine
Concen: 64.132 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 350744

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.6	17.4
183	11.6	9.4	14.0

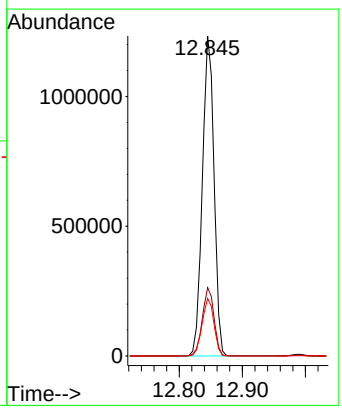


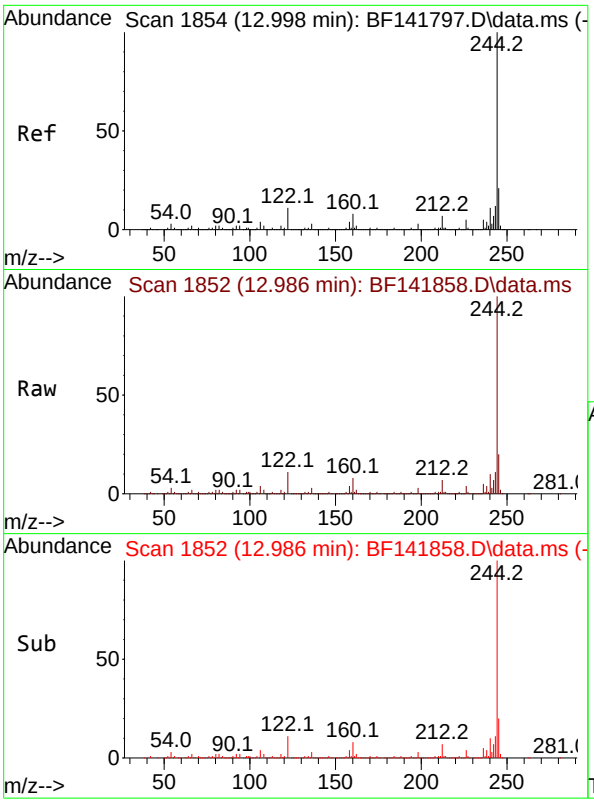


#78
Pyrene
Concen: 42.032 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:202 Resp: 1581543

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	18.0	14.6	22.0



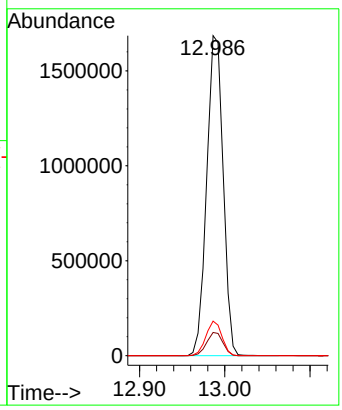


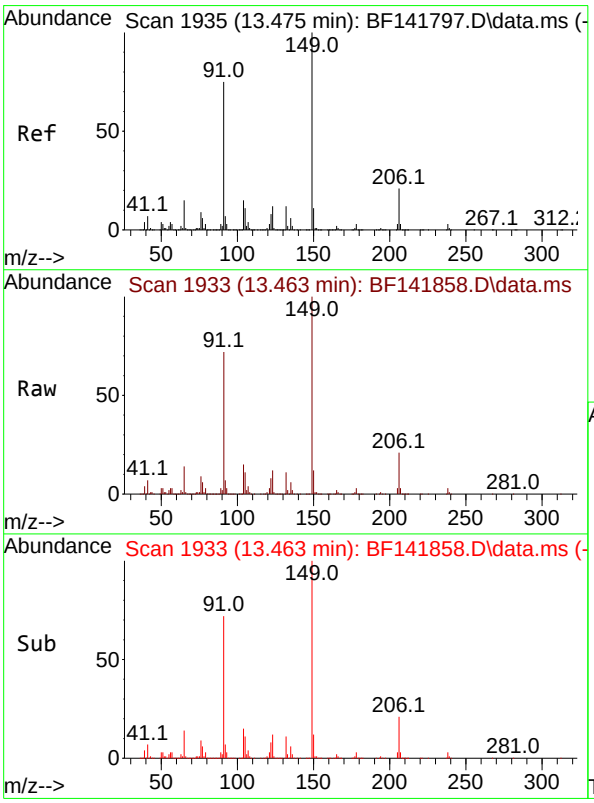
#79
Terphenyl-d14
Concen: 84.201 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 2261369

Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	10.8	9.0	13.6

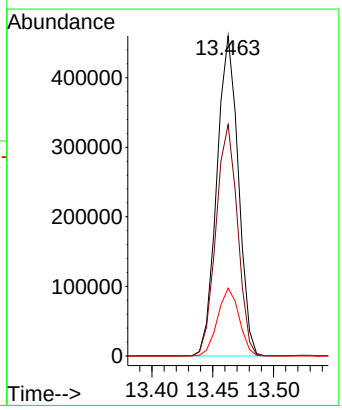


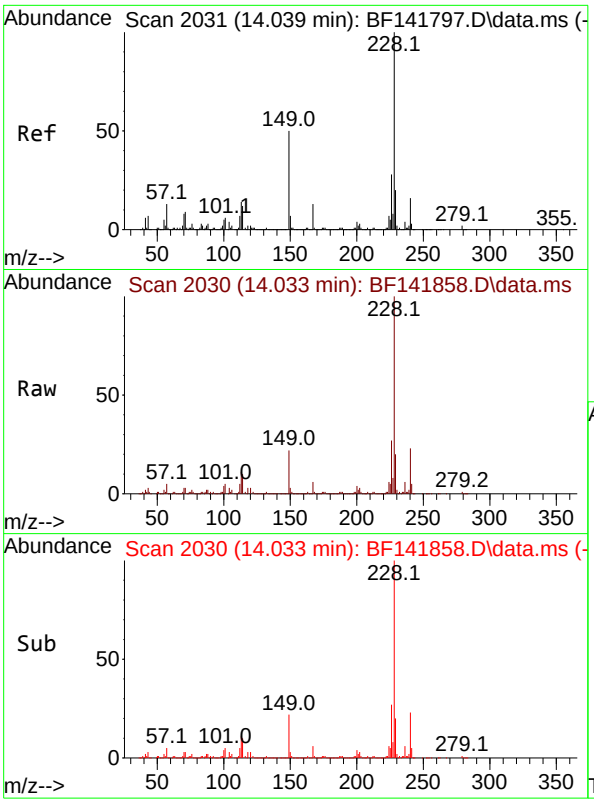


#80
Butylbenzylphthalate
Concen: 41.333 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 565050

Ion	Ratio	Lower	Upper
149	100		
91	72.3	60.1	90.1
206	21.2	16.8	25.2



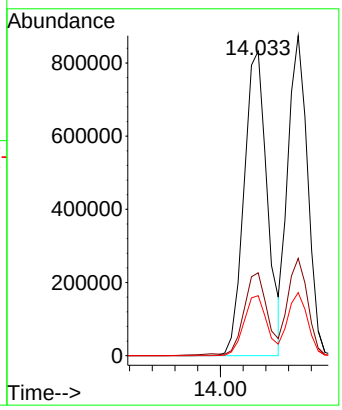


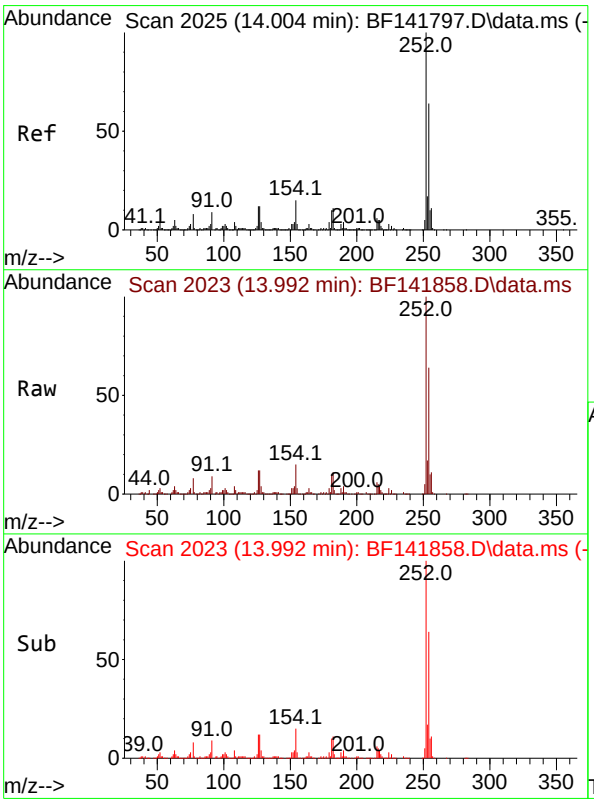
#81
Benzo(a)anthracene
Concen: 41.166 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1181513

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.7	16.1	24.1

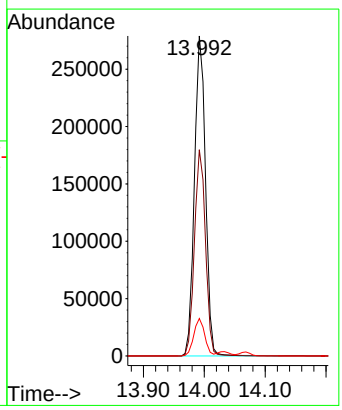


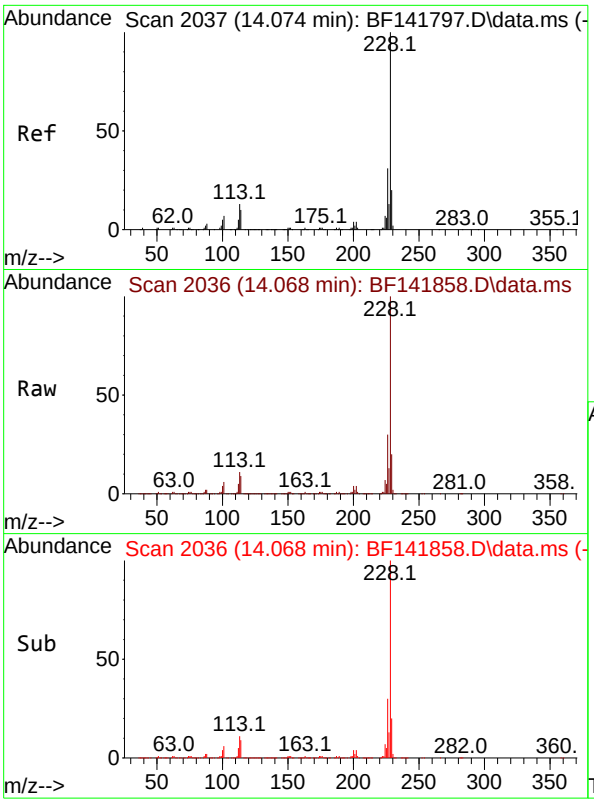


#82
3,3'-Dichlorobenzidine
Concen: 42.780 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 352265

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.4	77.0
126	11.7	9.8	14.6



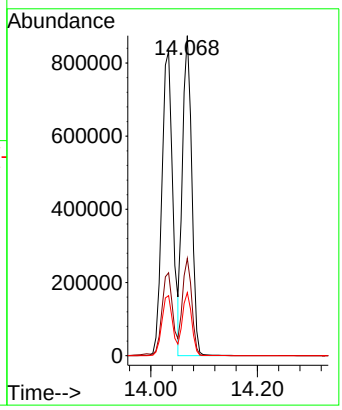


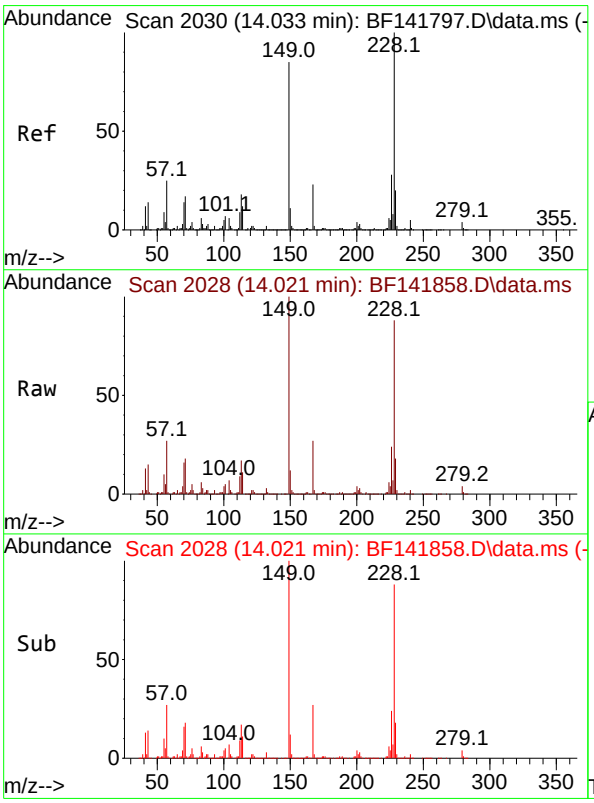
#83
Chrysene
Concen: 40.001 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1058301

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.7	16.1	24.1

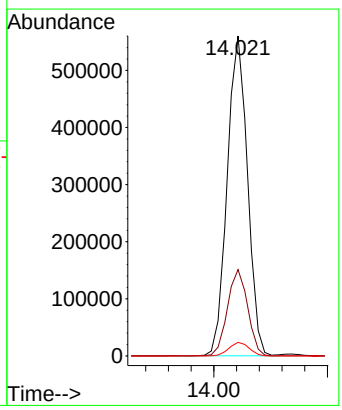


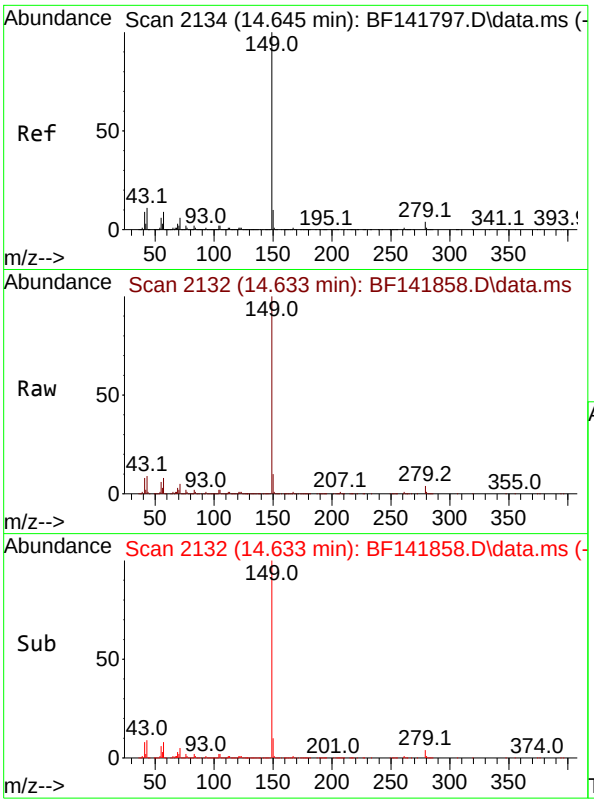


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.771 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:149 Resp: 694013

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.2	31.8
279	4.3	3.3	4.9



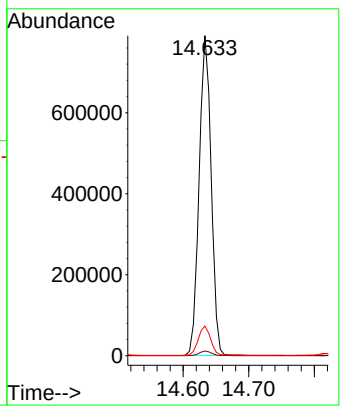


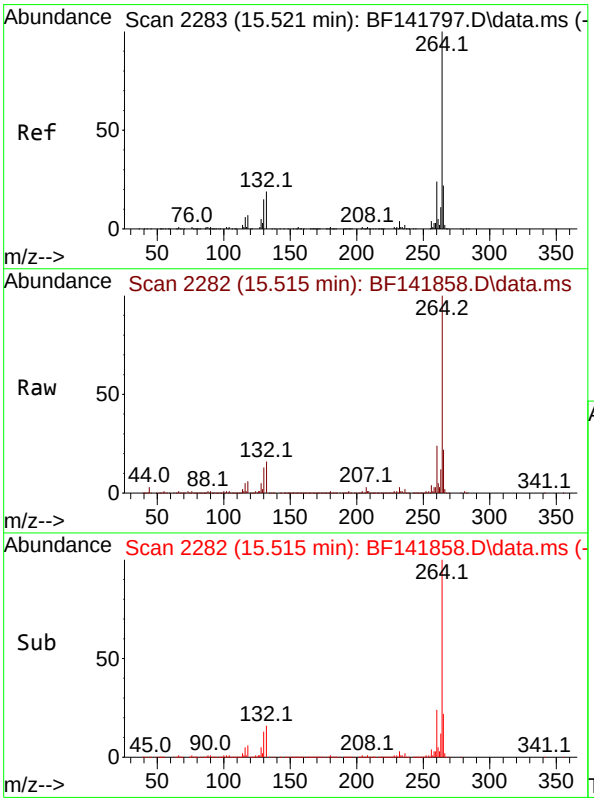
#85
Di-n-octyl phthalate
Concen: 39.653 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1010509

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.5	8.6	12.8

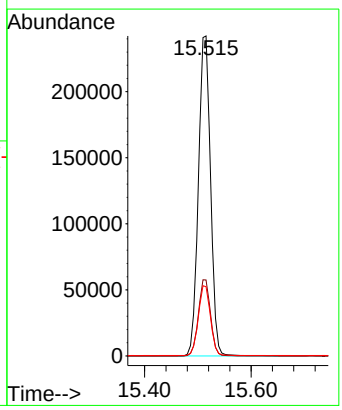


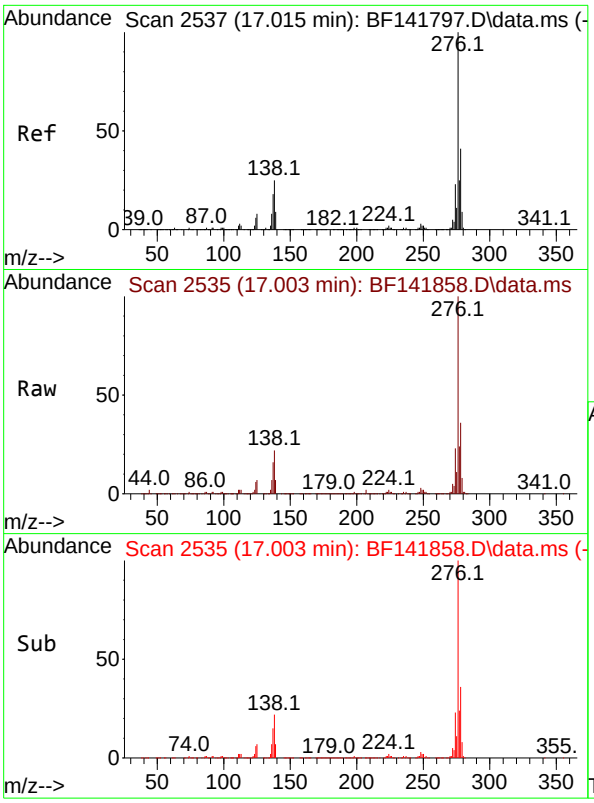


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:264 Resp: 382575

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.7	17.4	26.0



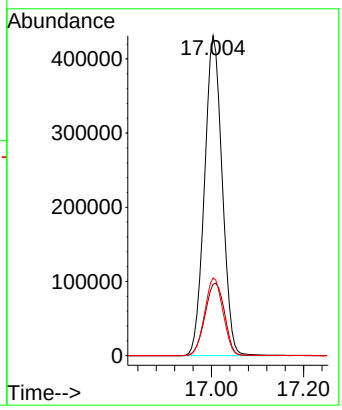


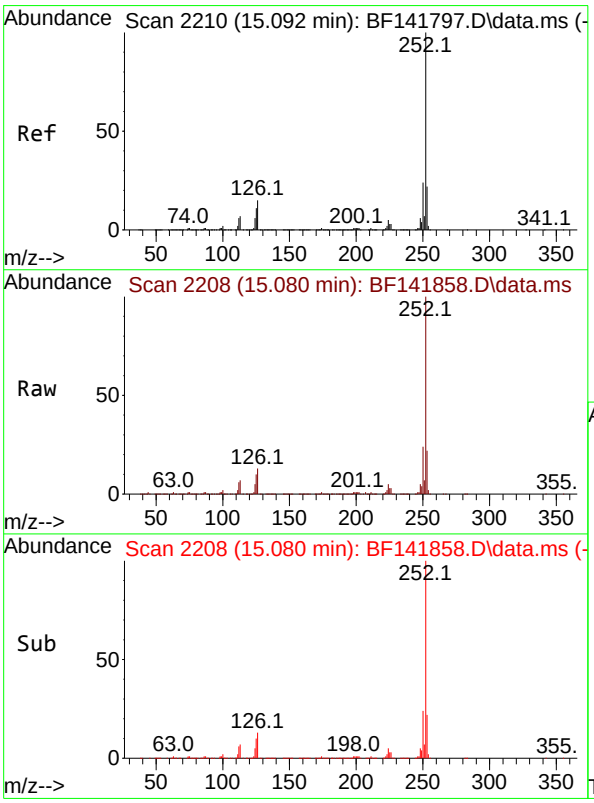
#87
Indeno(1,2,3-cd)pyrene
Concen: 47.319 ng
RT: 17.003 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1152756

Ion	Ratio	Lower	Upper
276	100		
138	25.1	22.5	33.7
277	25.3	20.3	30.5

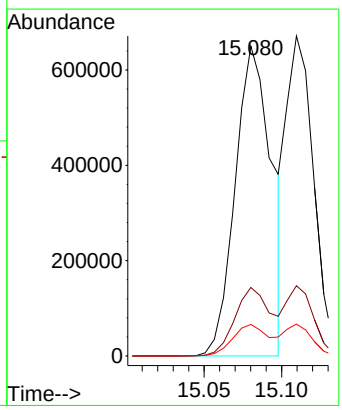


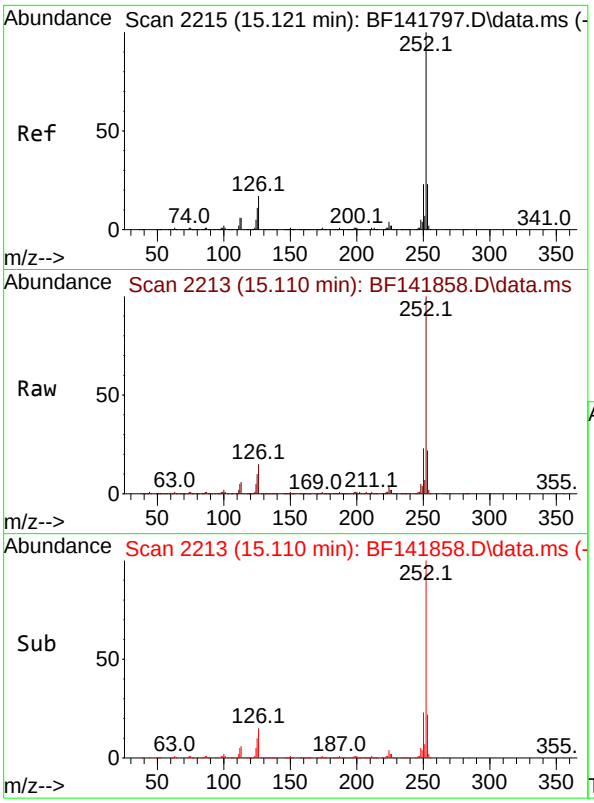


#88
Benzo(b)fluoranthene
Concen: 40.755 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 1062079

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	8.6	13.0



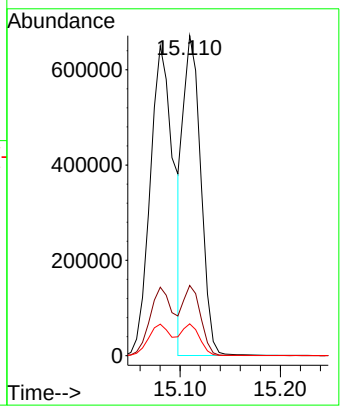


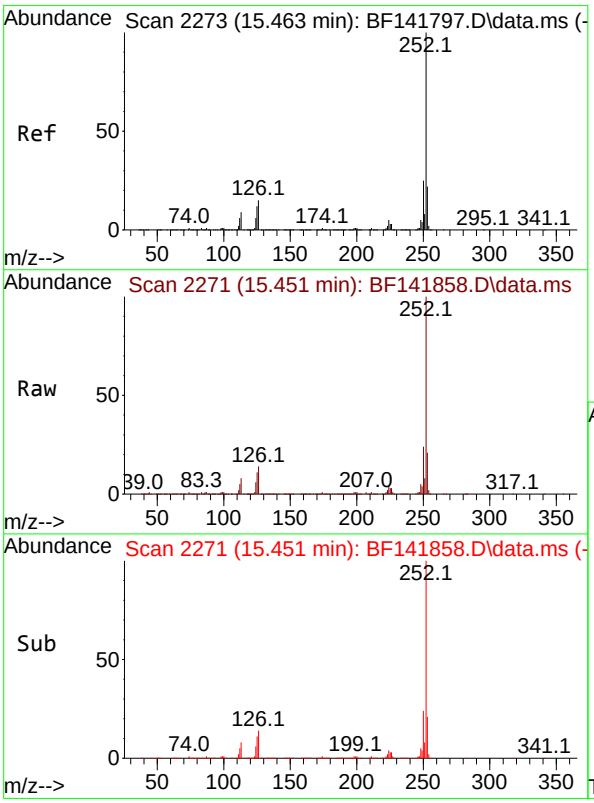
#89
Benzo(k)fluoranthene
Concen: 37.066 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 821007

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.0	8.8	13.2

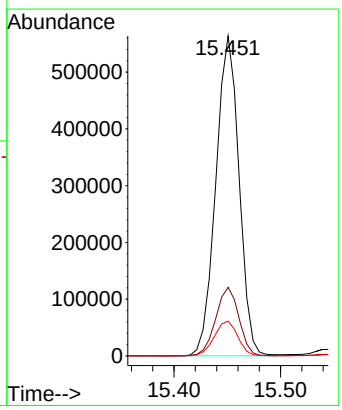


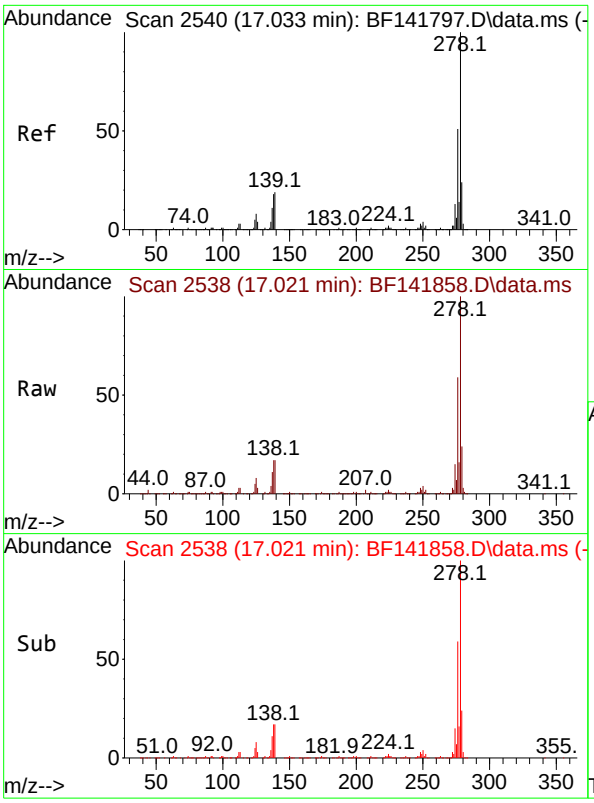


#90
Benzo(a)pyrene
Concen: 40.761 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:252 Resp: 851884

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	10.9	9.4	14.2



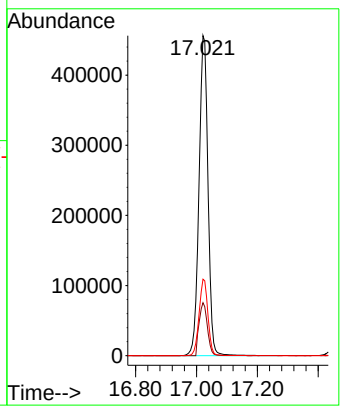


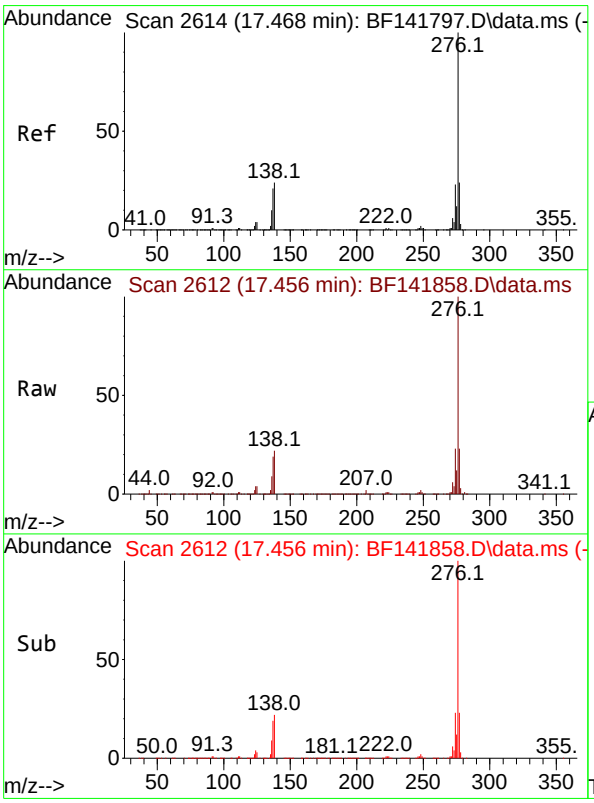
#91
Dibenzo(a,h)anthracene
Concen: 46.962 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 933839

Ion	Ratio	Lower	Upper
278	100		
139	16.6	14.9	22.3
279	23.9	19.3	28.9

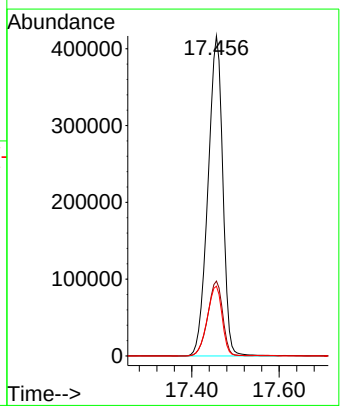




#92
Benzo(g,h,i)perylene
Concen: 48.133 ng
RT: 17.456 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141858.D
Acq: 06 Mar 2025 09:52

Tgt Ion:276 Resp: 980552

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	21.8	19.3	28.9



Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	72	0.00
2		1,4-Dioxane	0.568	0.556	2.1	67	-0.02
3		Pyridine	1.414	1.372	3.0	67	-0.02
4		n-Nitrosodimethylamine	0.680	0.662	2.6	65	-0.02
5	S	2-Fluorophenol	1.252	1.263	-0.9	71	0.00
6		Aniline	1.695	1.594	6.0	64	0.00
7	S	Phenol-d6	1.630	1.584	2.8	68	0.00
8		2-Chlorophenol	1.355	1.366	-0.8	70	0.00
9		Benzaldehyde	0.948	0.847	10.7	62	0.00
10	C	Phenol	1.742	1.692	2.9	67	0.00
11		bis(2-Chloroethyl)ether	1.328	1.246	6.2	67	0.00
12		1,3-Dichlorobenzene	1.451	1.457	-0.4	70	0.00
13	C	1,4-Dichlorobenzene	1.462	1.504	-2.9	72	0.00
14		1,2-Dichlorobenzene	1.365	1.366	-0.1	70	0.00
15		Benzyl Alcohol	1.303	1.261	3.2	67	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	1.664	17.5	58	0.00
17		2-Methylphenol	1.118	1.076	3.8	67	0.00
18		Hexachloroethane	0.547	0.554	-1.3	69	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	0.946	11.8	63	0.00
20		3+4-Methylphenols	1.392	1.366	1.9	68	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	67	0.00
22		Acetophenone	0.487	0.490	-0.6	67	0.00
23	S	Nitrobenzene-d5	0.313	0.382	-22.0	76	0.00
24		Nitrobenzene	0.335	0.382	-14.0	71	0.00
25		Isophorone	0.672	0.635	5.5	63	0.00
26	C	2-Nitrophenol	0.127	0.188	-48.0#	88	0.00
27		2,4-Dimethylphenol	0.247	0.253	-2.4	67	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.412	4.0	64	0.00
29	C	2,4-Dichlorophenol	0.285	0.305	-7.0	69	0.00
30		1,2,4-Trichlorobenzene	0.312	0.332	-6.4	70	0.00
31		Naphthalene	1.028	1.054	-2.5	68	0.00
32		Benzoic acid	0.179	0.250	-39.7#	88	-0.02
33		4-Chloroaniline	0.377	0.374	0.8	67	0.00
34	C	Hexachlorobutadiene	0.194	0.208	-7.2	71	0.00
35		Caprolactam	0.088	0.093	-5.7	68	-0.01
36	C	4-Chloro-3-methylphenol	0.317	0.330	-4.1	68	0.00
37		2-Methylnaphthalene	0.674	0.684	-1.5	68	0.00
38		1-Methylnaphthalene	0.647	0.657	-1.5	68	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	68	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.607	-5.0	70	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.266	-10.4	69	0.00
42	S	2,4,6-Tribromophenol	0.188	0.224	-19.1	76	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.399	-7.0	68	0.00
44		2,4,5-Trichlorophenol	0.369	0.413	-11.9	73	0.00
45	S	2-Fluorobiphenyl	1.247	1.292	-3.6	71	0.00
46		1,1'-Biphenyl	1.522	1.560	-2.5	69	0.00
47		2-Chloronaphthalene	1.124	1.157	-2.9	69	0.00

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	0.260	0.356	-36.9#	80	0.00
49		Acenaphthylene	1.685	1.735	-3.0	68	-0.01
50		Dimethylphthalate	1.339	1.363	-1.8	68	-0.01
51		2,6-Dinitrotoluene	0.226	0.300	-32.7#	79	-0.01
52	C	Acenaphthene	1.137	1.209	-6.3	71	0.00
53		3-Nitroaniline	0.241	0.314	-30.3#	77	0.00
54	P	2,4-Dinitrophenol	0.089	0.159	-78.7#	116	0.00
55		Dibenzofuran	1.654	1.682	-1.7	68	0.00
56	P	4-Nitrophenol	0.198	0.262	-32.3#	77	0.00
57		2,4-Dinitrotoluene	0.269	0.396	-47.2#	85	0.00
58		Fluorene	1.239	1.270	-2.5	70	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.362	-12.8	72	0.00
60		Diethylphthalate	1.343	1.344	-0.1	66	-0.01
61		4-Chlorophenyl-phenylether	0.621	0.640	-3.1	70	0.00
62		4-Nitroaniline	0.229	0.307	-34.1#	78	-0.01
63		Azobenzene	1.414	1.358	4.0	64	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	67	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.132	-63.0#	102	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.670	-2.0	68	0.00
67		4-Bromophenyl-phenylether	0.234	0.243	-3.8	69	0.00
68		Hexachlorobenzene	0.247	0.266	-7.7	71	0.00
69		Atrazine	0.181	0.155	14.4	58	-0.01
70	C	Pentachlorophenol	0.156	0.186	-19.2	74	0.00
71		Phenanthrene	1.070	1.115	-4.2	70	0.00
72		Anthracene	1.072	1.115	-4.0	70	0.00
73		Carbazole	0.947	0.988	-4.3	69	0.00
74		Di-n-butylphthalate	1.200	1.188	1.0	66	0.00
75	C	Fluoranthene	1.096	1.142	-4.2	70	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	69	0.00
77		Benzidine	0.252	0.404	-60.3#	107	0.00
78		Pyrene	1.732	1.820	-5.1	70	0.00
79	S	Terphenyl-d14	1.236	1.301	-5.3	71	-0.01
80		Butylbenzylphthalate	0.629	0.650	-3.3	67	-0.01
81		Benzo(a)anthracene	1.321	1.360	-3.0	72	0.00
82		3,3'-Dichlorobenzidine	0.379	0.405	-6.9	71	-0.01
83		Chrysene	1.218	1.218	0.0	66	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.799	-2.0	66	-0.01
85	c	Di-n-octyl phthalate	1.173	1.163	0.9	61	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	67	0.00
87		Indeno(1,2,3-cd)pyrene	1.274	1.507	-18.3	76	-0.01
88		Benzo(b)fluoranthene	1.362	1.388	-1.9	72	-0.01
89		Benzo(k)fluoranthene	1.158	1.073	7.3	60	-0.01
90	C	Benzo(a)pyrene	1.093	1.113	-1.8	67	-0.01
91		Dibenzo(a,h)anthracene	1.040	1.220	-17.3	74	-0.01
92		Benzo(g,h,i)perylene	1.065	1.282	-20.4	77	-0.01

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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 = 1

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	72	0.00
2		1,4-Dioxane	40.000	39.116	2.2	67	-0.02
3		Pyridine	40.000	38.819	3.0	67	-0.02
4		n-Nitrosodimethylamine	40.000	38.909	2.7	65	-0.02
5	S	2-Fluorophenol	80.000	80.684	-0.9	71	0.00
6		Aniline	40.000	37.619	6.0	64	0.00
7	S	Phenol-d6	80.000	77.750	2.8	68	0.00
8		2-Chlorophenol	40.000	40.331	-0.8	70	0.00
9		Benzaldehyde	40.000	35.716	10.7	62	0.00
10	C	Phenol	40.000	38.850	2.9	67	0.00
11		bis(2-Chloroethyl)ether	40.000	37.524	6.2	67	0.00
12		1,3-Dichlorobenzene	40.000	40.171	-0.4	70	0.00
13	C	1,4-Dichlorobenzene	40.000	41.163	-2.9	72	0.00
14		1,2-Dichlorobenzene	40.000	40.035	-0.1	70	0.00
15		Benzyl Alcohol	40.000	38.708	3.2	67	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.001	17.5	58	0.00
17		2-Methylphenol	40.000	38.479	3.8	67	0.00
18		Hexachloroethane	40.000	40.497	-1.2	69	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.298	11.8	63	0.00
20		3+4-Methylphenols	40.000	39.253	1.9	68	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	67	0.00
22		Acetophenone	40.000	40.243	-0.6	67	0.00
23	S	Nitrobenzene-d5	80.000	97.772	-22.2	76	0.00
24		Nitrobenzene	40.000	45.653	-14.1	71	0.00
25		Isophorone	40.000	37.814	5.5	63	0.00
26	C	2-Nitrophenol	40.000	49.968	-24.9#	88	0.00
27		2,4-Dimethylphenol	40.000	40.956	-2.4	67	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.448	3.9	64	0.00
29	C	2,4-Dichlorophenol	40.000	42.802	-7.0	69	0.00
30		1,2,4-Trichlorobenzene	40.000	42.568	-6.4	70	0.00
31		Naphthalene	40.000	41.026	-2.6	68	0.00
32		Benzoic acid	40.000	48.428	-21.1	88	-0.02
33		4-Chloroaniline	40.000	39.713	0.7	67	0.00
34	C	Hexachlorobutadiene	40.000	42.902	-7.3	71	0.00
35		Caprolactam	40.000	42.235	-5.6	68	-0.01
36	C	4-Chloro-3-methylphenol	40.000	41.661	-4.2	68	0.00
37		2-Methylnaphthalene	40.000	40.571	-1.4	68	0.00
38		1-Methylnaphthalene	40.000	40.609	-1.5	68	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	68	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	42.066	-5.2	70	0.00
41	P	Hexachlorocyclopentadiene	40.000	44.067	-10.2	69	0.00
42	S	2,4,6-Tribromophenol	80.000	95.540	-19.4	76	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.772	-6.9	68	0.00
44		2,4,5-Trichlorophenol	40.000	44.739	-11.8	73	0.00
45	S	2-Fluorobiphenyl	80.000	82.849	-3.6	71	0.00
46		1,1'-Biphenyl	40.000	40.994	-2.5	69	0.00
47		2-Chloronaphthalene	40.000	41.199	-3.0	69	0.00

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 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	46.508	-16.3	80	0.00
49		Acenaphthylene	40.000	41.204	-3.0	68	-0.01
50		Dimethylphthalate	40.000	40.693	-1.7	68	-0.01
51		2,6-Dinitrotoluene	40.000	46.842	-17.1	79	-0.01
52	C	Acenaphthene	40.000	42.527	-6.3	71	0.00
53		3-Nitroaniline	40.000	46.137	-15.3	77	0.00
54	P	2,4-Dinitrophenol	40.000	59.722	-49.3#	116	0.00
55		Dibenzofuran	40.000	40.671	-1.7	68	0.00
56	P	4-Nitrophenol	40.000	52.954	-32.4#	77	0.00
57		2,4-Dinitrotoluene	40.000	50.419	-26.0#	85	0.00
58		Fluorene	40.000	41.003	-2.5	70	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	45.123	-12.8	72	0.00
60		Diethylphthalate	40.000	40.052	-0.1	66	-0.01
61		4-Chlorophenyl-phenylether	40.000	41.246	-3.1	70	0.00
62		4-Nitroaniline	40.000	53.688	-34.2#	78	-0.01
63		Azobenzene	40.000	38.422	3.9	64	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	67	0.00
65		4,6-Dinitro-2-methylphenol	40.000	54.694	-36.7#	102	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.832	-2.1	68	0.00
67		4-Bromophenyl-phenylether	40.000	41.606	-4.0	69	0.00
68		Hexachlorobenzene	40.000	43.090	-7.7	71	0.00
69		Atrazine	40.000	34.313	14.2	58	-0.01
70	C	Pentachlorophenol	40.000	47.434	-18.6	74	0.00
71		Phenanthrene	40.000	41.677	-4.2	70	0.00
72		Anthracene	40.000	41.580	-3.9	70	0.00
73		Carbazole	40.000	41.751	-4.4	69	0.00
74		Di-n-butylphthalate	40.000	39.592	1.0	66	0.00
75	C	Fluoranthene	40.000	41.655	-4.1	70	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	69	0.00
77		Benzidine	40.000	64.132	-60.3#	107	0.00
78		Pyrene	40.000	42.032	-5.1	70	0.00
79	S	Terphenyl-d14	80.000	84.201	-5.3	71	-0.01
80		Butylbenzylphthalate	40.000	41.333	-3.3	67	-0.01
81		Benzo(a)anthracene	40.000	41.166	-2.9	72	0.00
82		3,3'-Dichlorobenzidine	40.000	42.780	-7.0	71	-0.01
83		Chrysene	40.000	40.001	-0.0	66	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.771	-1.9	66	-0.01
85	c	Di-n-octyl phthalate	40.000	39.653	0.9	61	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	67	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	47.319	-18.3	76	-0.01
88		Benzo(b)fluoranthene	40.000	40.755	-1.9	72	-0.01
89		Benzo(k)fluoranthene	40.000	37.066	7.3	60	-0.01
90	C	Benzo(a)pyrene	40.000	40.761	-1.9	67	-0.01
91		Dibenzo(a,h)anthracene	40.000	46.962	-17.4	74	-0.01
92		Benzo(g,h,i)perylene	40.000	48.133	-20.3	77	-0.01

Sample Results: **BF141858.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141858.D
Acq On : 06 Mar 2025 09:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Mar 06 10:25:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

QC SAMPLE DATA

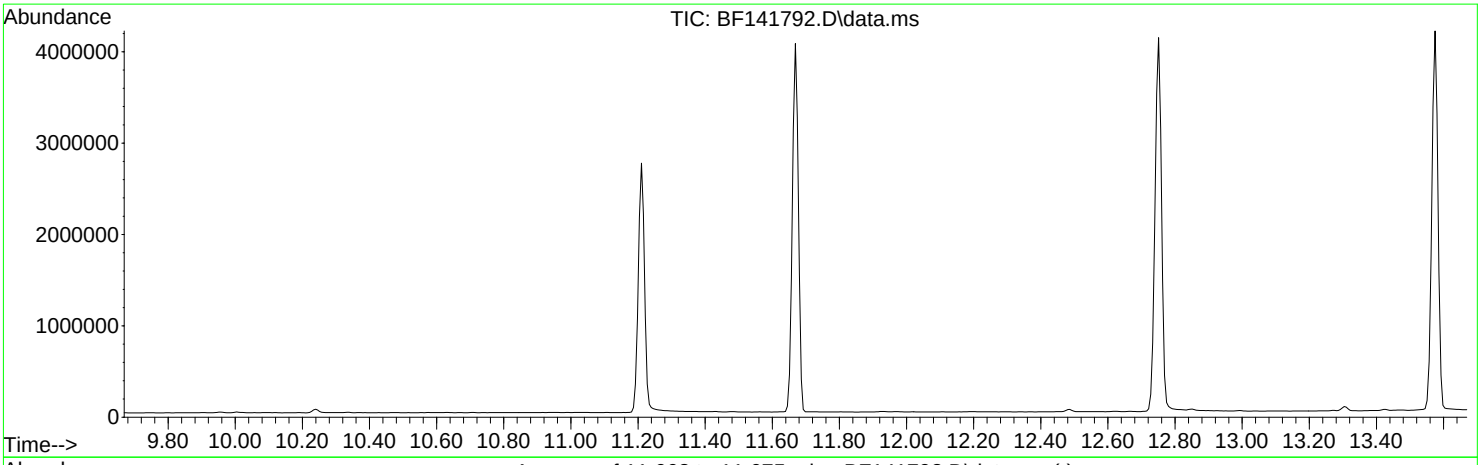
Sample Results: **BF141792.D**

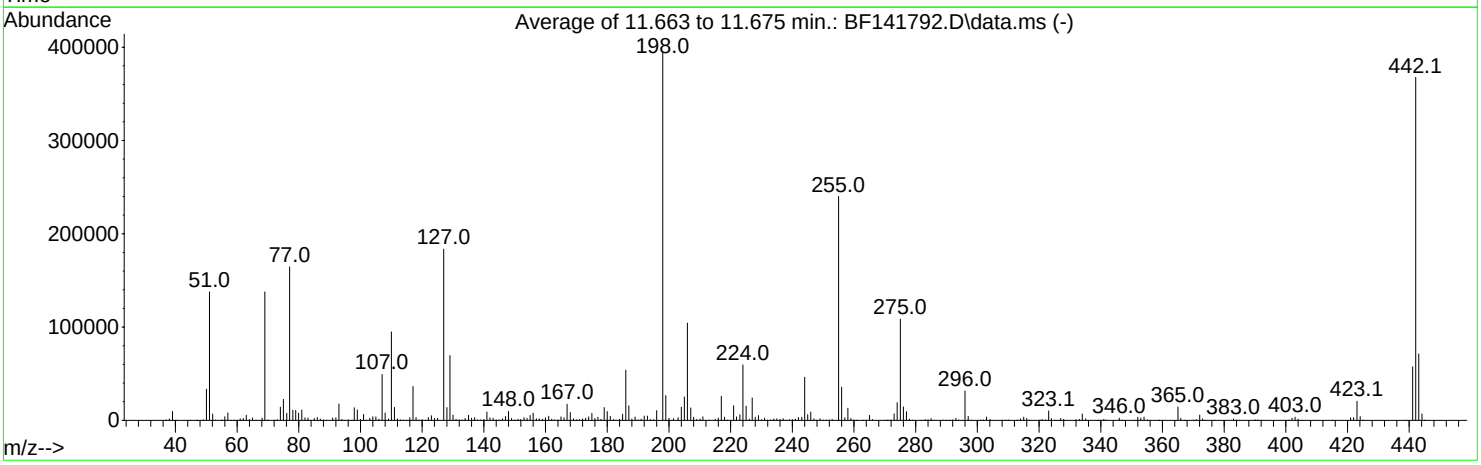
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025





AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	137699	PASS
68	69	0.00	2	1.7	2348	PASS
69	198	0.00	100	34.9	137773	PASS
70	69	0.00	2	0.4	593	PASS
127	198	10	80	46.5	183483	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	394304	PASS
199	198	5	9	6.7	26613	PASS
275	198	10	60	27.6	108637	PASS
365	198	1	100	3.7	14499	PASS
441	198	0.01	100	14.6	57517	PASS
442	442	50	100	100.0	367680	PASS
443	442	15	24	19.4	71267	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/27/2025	BNA_F	BF141792.D
Compound Name	**Response**	**Retention Time**
DDT	938485	13.575
DDD	9936	13.304
DDE	0	12.827
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
9936	948421	1.05

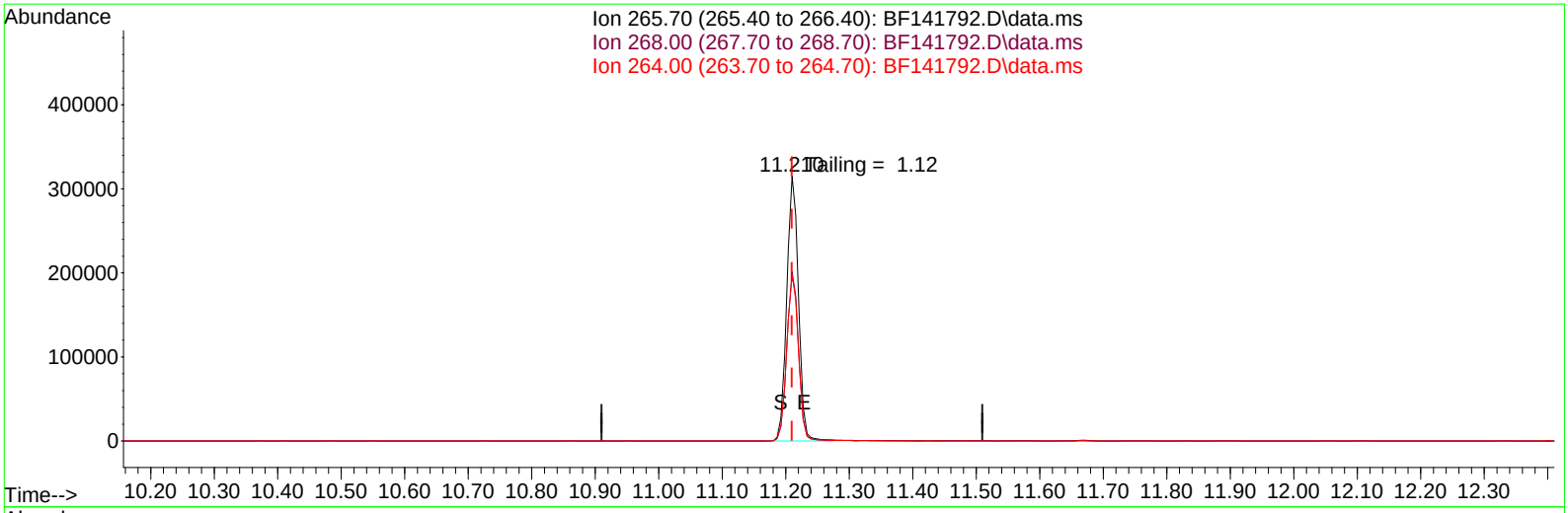
Instrument :
BNA_F
ClientSampleId :
DFTPP

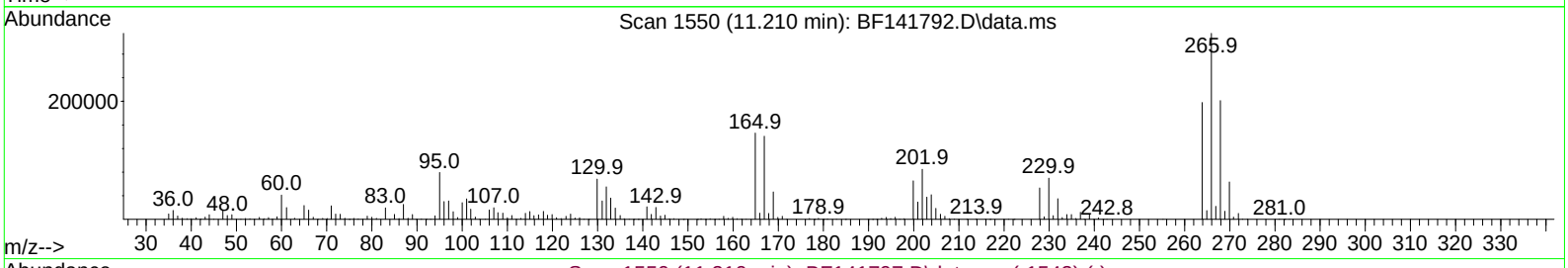
Sample Results: **BF141792.D**

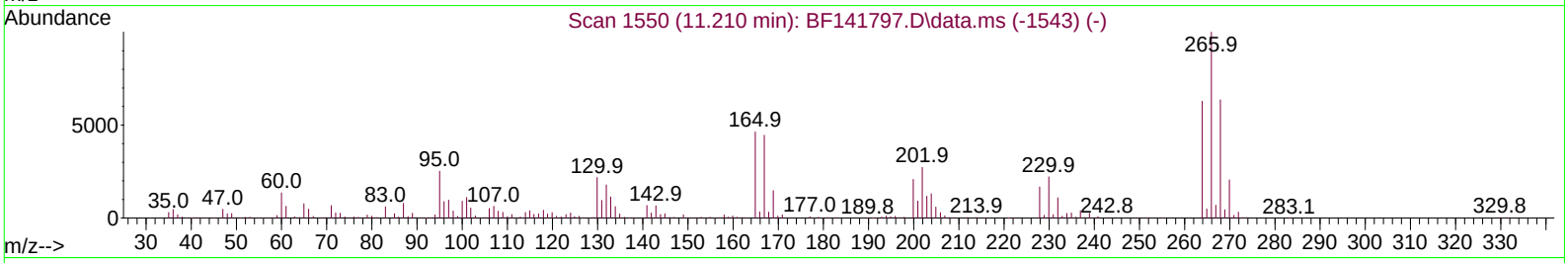
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 28 01:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141792.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.000) 55299.21 ng

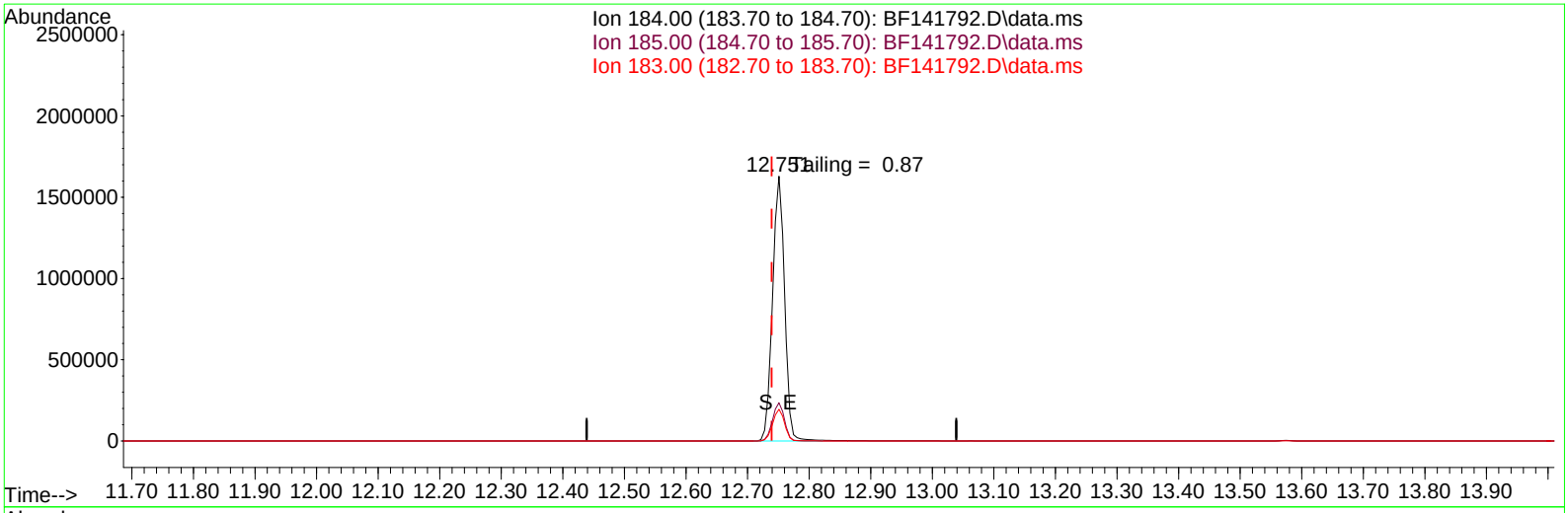
response 409665

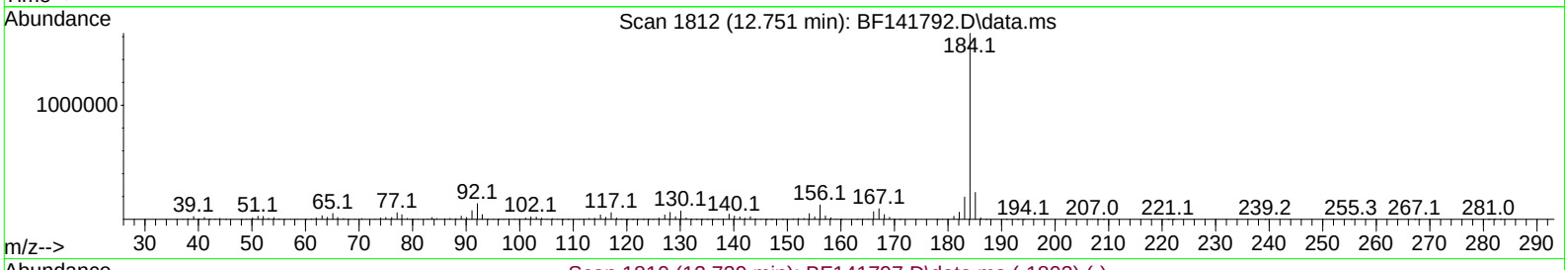
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.84
264.00	62.80	62.85
0.00	0.00	0.00

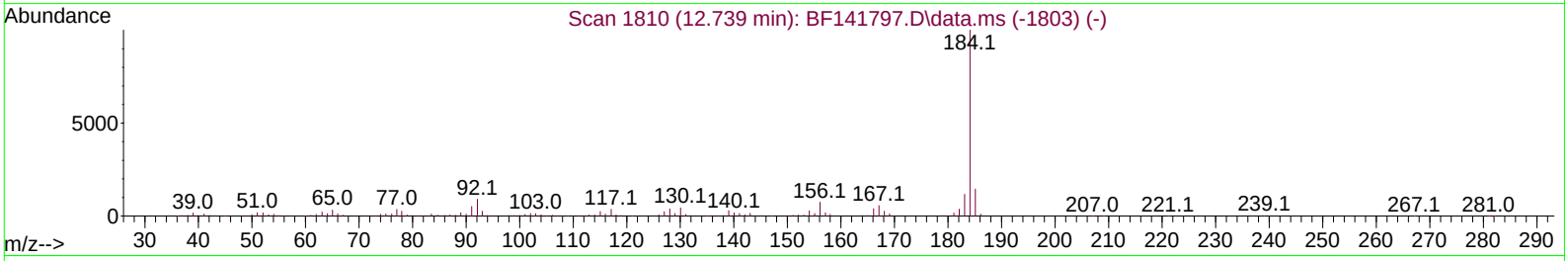
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 28 01:59:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141792.D\data.ms

(77) Benzidine

12.751min (+ 0.012) 190021.56 ng

response 2231445

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.44
183.00	11.70	11.98
0.00	0.00	0.00

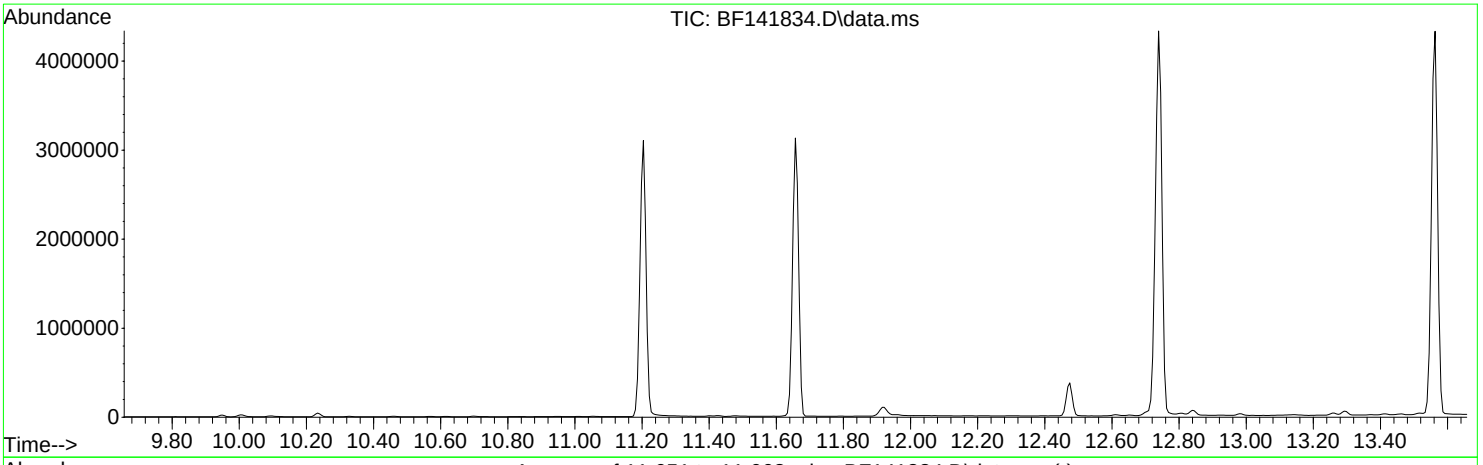
Sample Results: **BF141834.D**

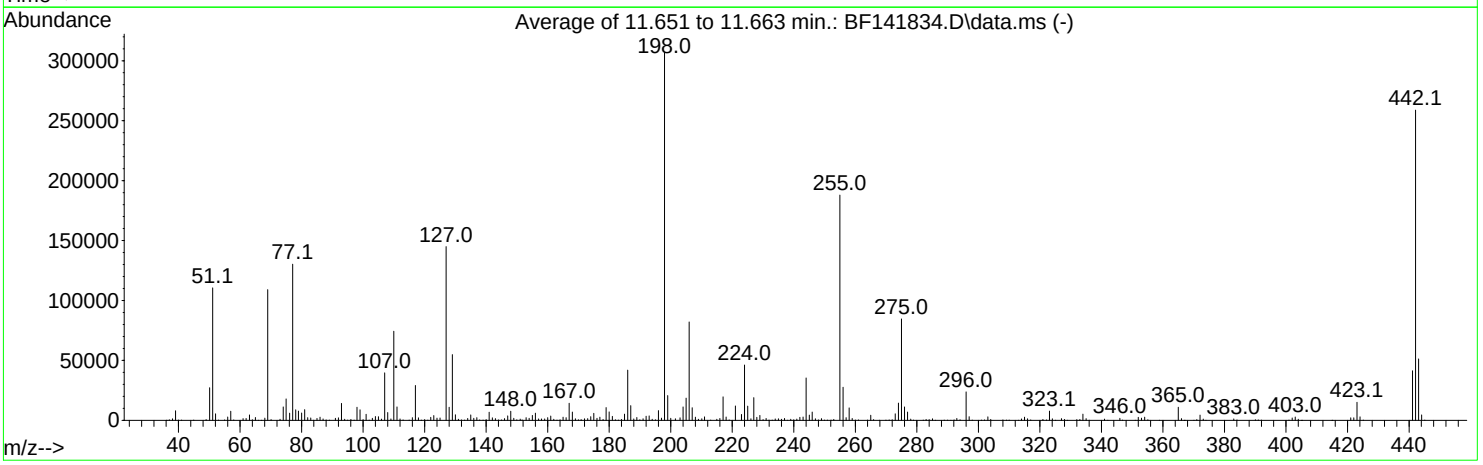
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025





AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1618

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.0	110581	PASS
68	69	0.00	2	1.8	1934	PASS
69	198	0.00	100	35.5	109001	PASS
70	69	0.00	2	0.6	688	PASS
127	198	10	80	47.3	145005	PASS
197	198	0.00	2	0.6	1815	PASS
198	198	100	100	100.0	306880	PASS
199	198	5	9	6.8	20715	PASS
275	198	10	60	27.6	84643	PASS
365	198	1	100	3.6	10929	PASS
441	198	0.01	100	13.5	41328	PASS
442	442	50	100	100.0	258816	PASS
443	442	15	24	19.8	51307	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/5/2025	BNA_F	BF141834.D
Compound Name	**Response**	**Retention Time**
DDT	1076236	13.563
DDD	16503	13.292
DDE	899	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
17402	1093638	1.59

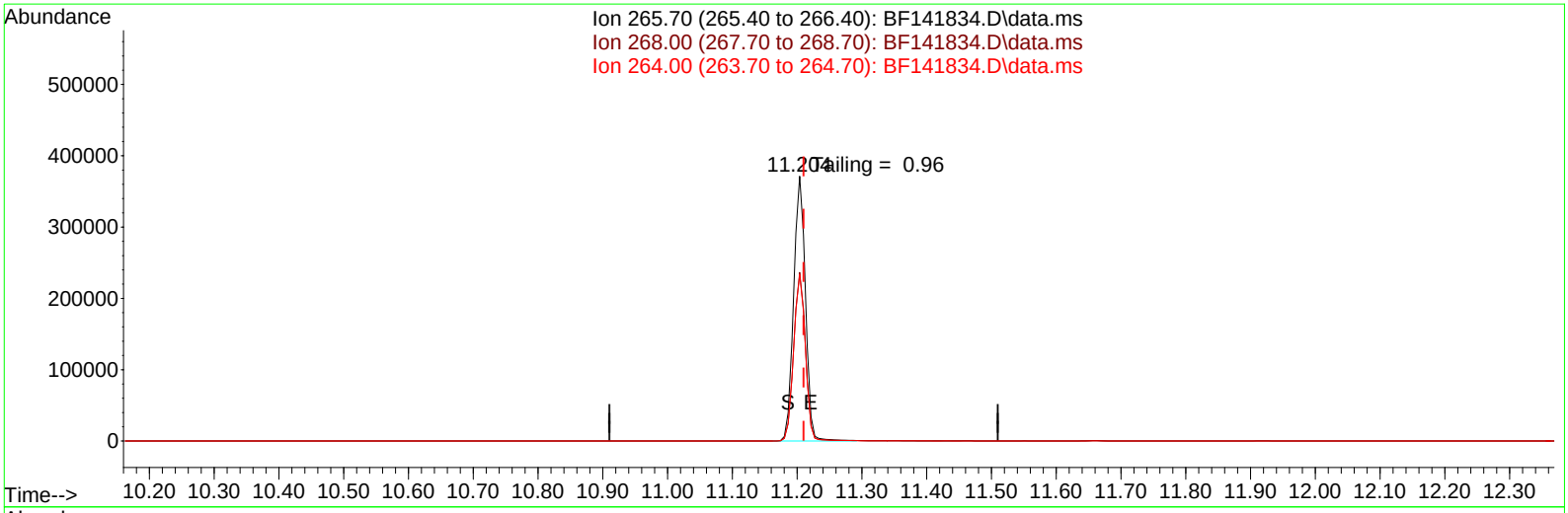
Instrument :
BNA_F
ClientSampleId :
DFTPP

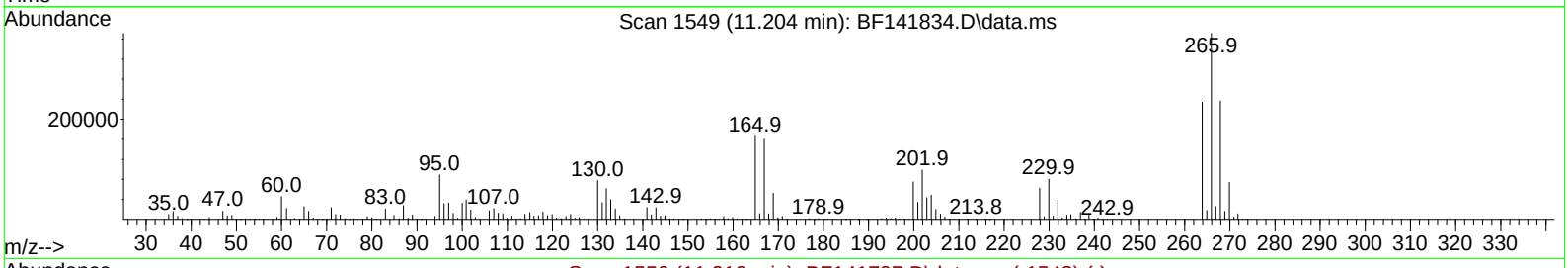
Sample Results: **BF141834.D**

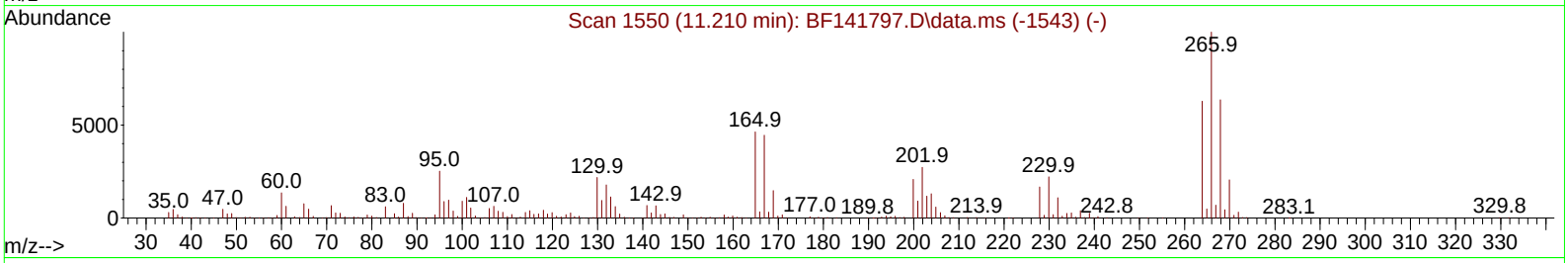
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 05 11:25:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141834.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 20262.40 ng

response 472195

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.68
264.00	62.80	62.98
0.00	0.00	0.00

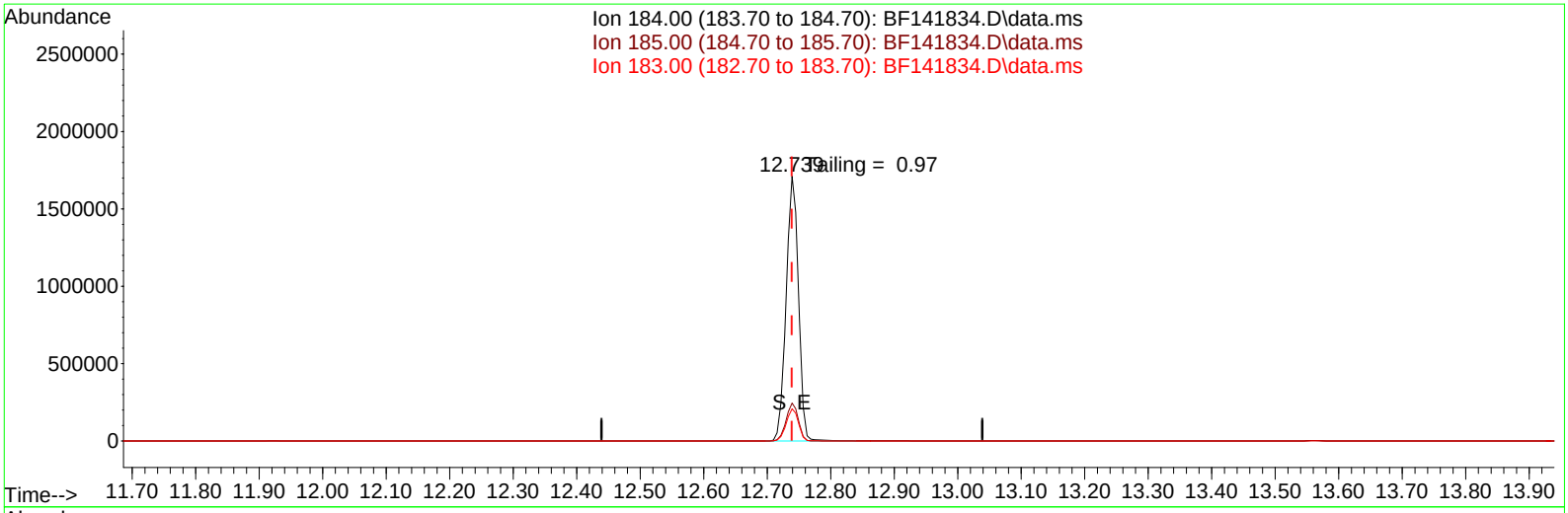
Quantitation Report (Qedit)

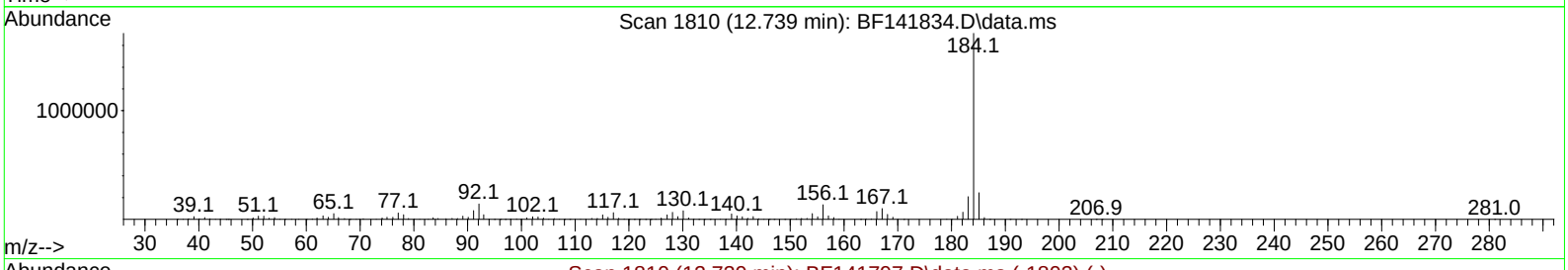
Sample Results: **BF141834.D**

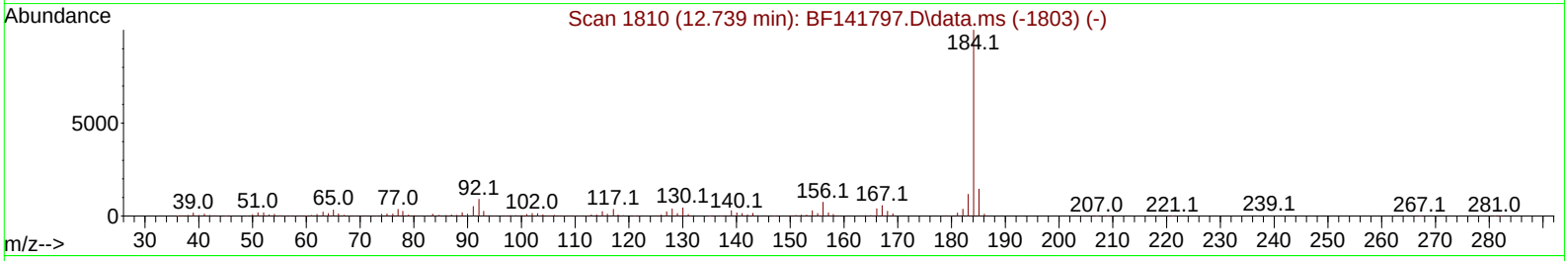
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141834.D
Acq On : 05 Mar 2025 09:40
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 05 11:25:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141834.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 56821.39 ng

response 2322895

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.34
183.00	11.70	12.16
0.00	0.00	0.00

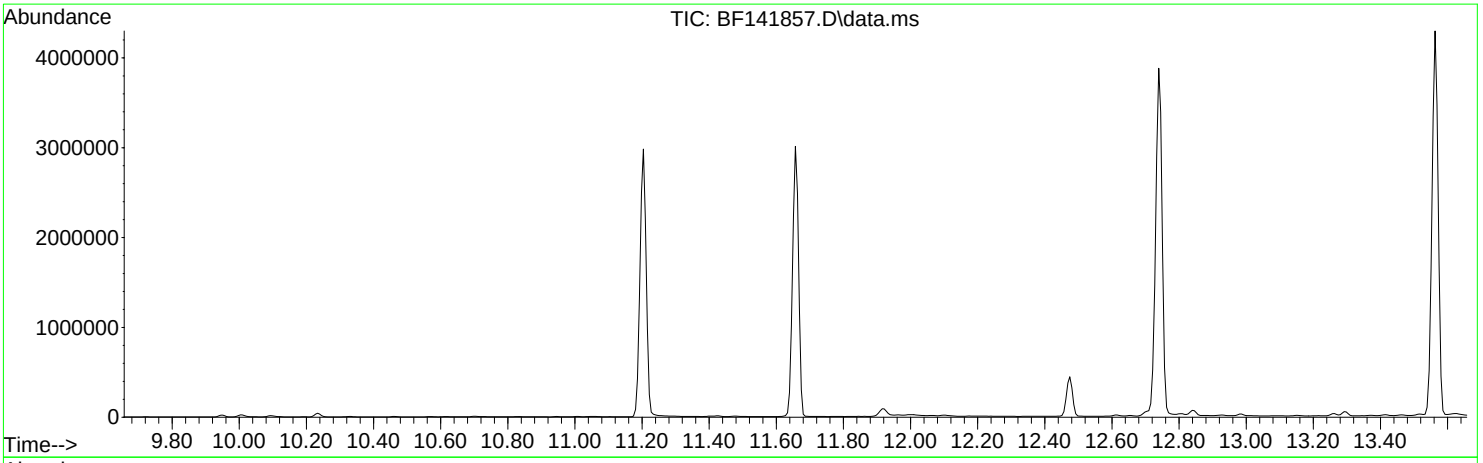
Sample Results: **BF141857.D**

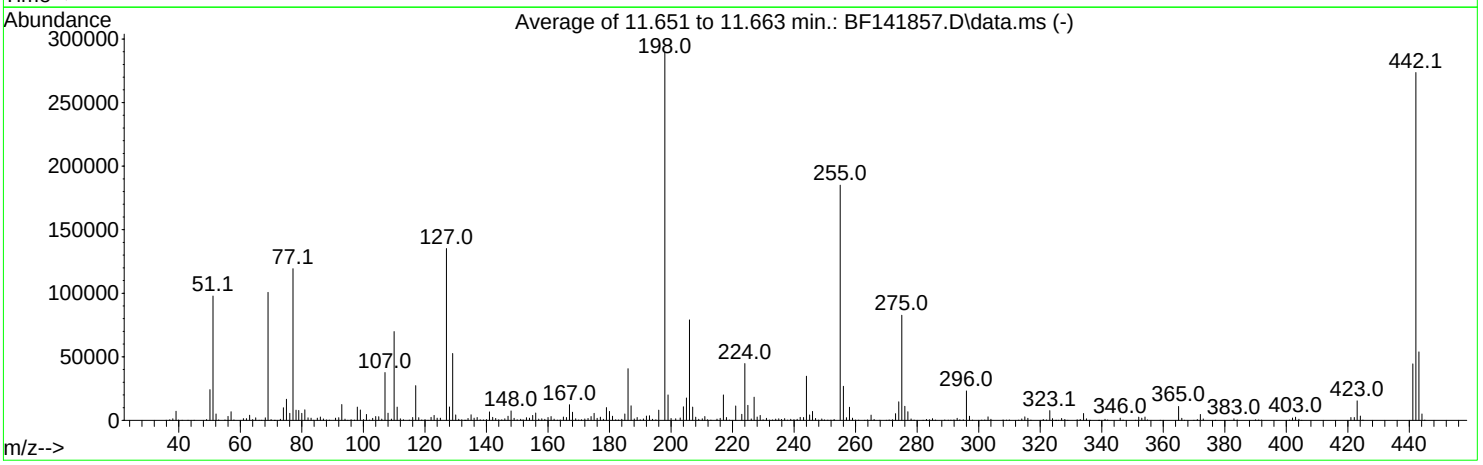
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Feb 28 01:48:16 2025





AutoFind: Scans 1625, 1626, 1627; Background Corrected with Scan 1618

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.8	97827	PASS
68	69	0.00	2	2.0	1989	PASS
69	198	0.00	100	34.8	100752	PASS
70	69	0.00	2	0.7	703	PASS
127	198	10	80	46.7	135227	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	289387	PASS
199	198	5	9	6.9	20075	PASS
275	198	10	60	28.6	82683	PASS
365	198	1	100	3.8	11013	PASS
441	198	0.01	100	15.3	44419	PASS
442	442	50	100	100.0	273621	PASS
443	442	15	24	19.7	53861	PASS

DDT Breakdown

Date	Instrument Name	DFTPP Data File
3/6/2025	BNA_F	BF141857.D
Compound Name	**Response**	**Retention Time**
DDT	1093424	13.563
DDD	17368	13.292
DDE	1071	12.927
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18439	1111863	1.66

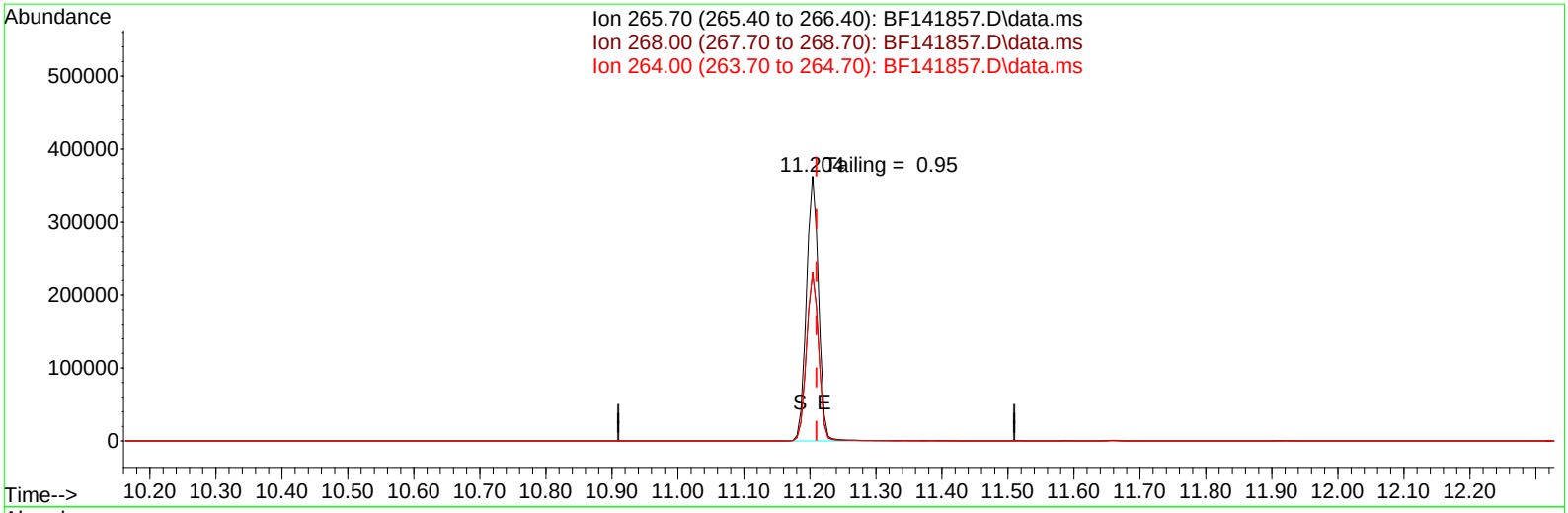
Instrument :
BNA_F
ClientSampleId :
DFTPP

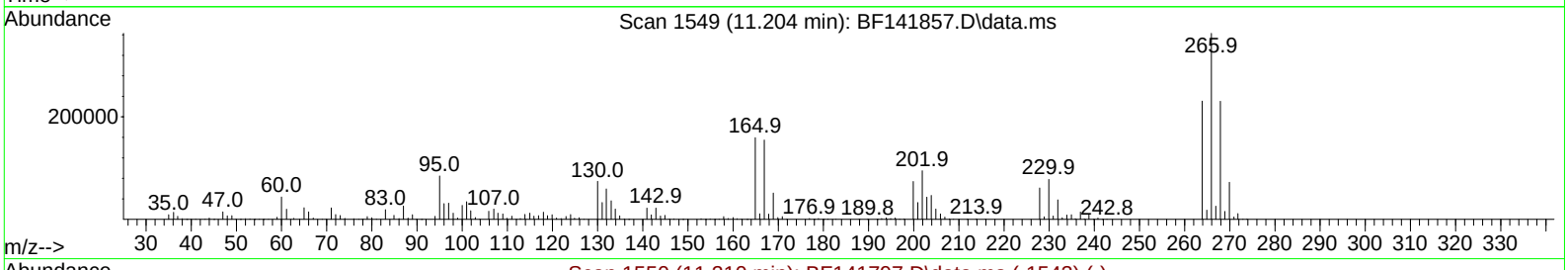
Sample Results: **BF141857.D**

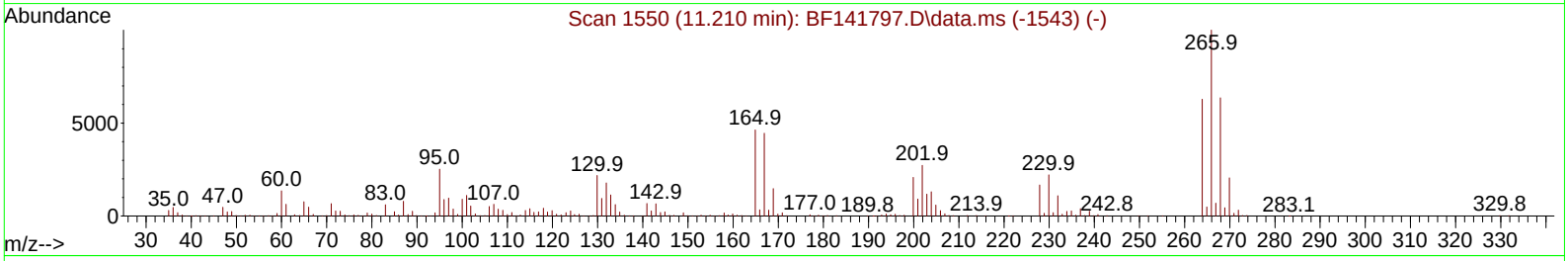
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 06 17:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141857.D\data.ms

(70) Pentachlorophenol (C)

11.204min (-0.006) 17552.30 ng

response 465884

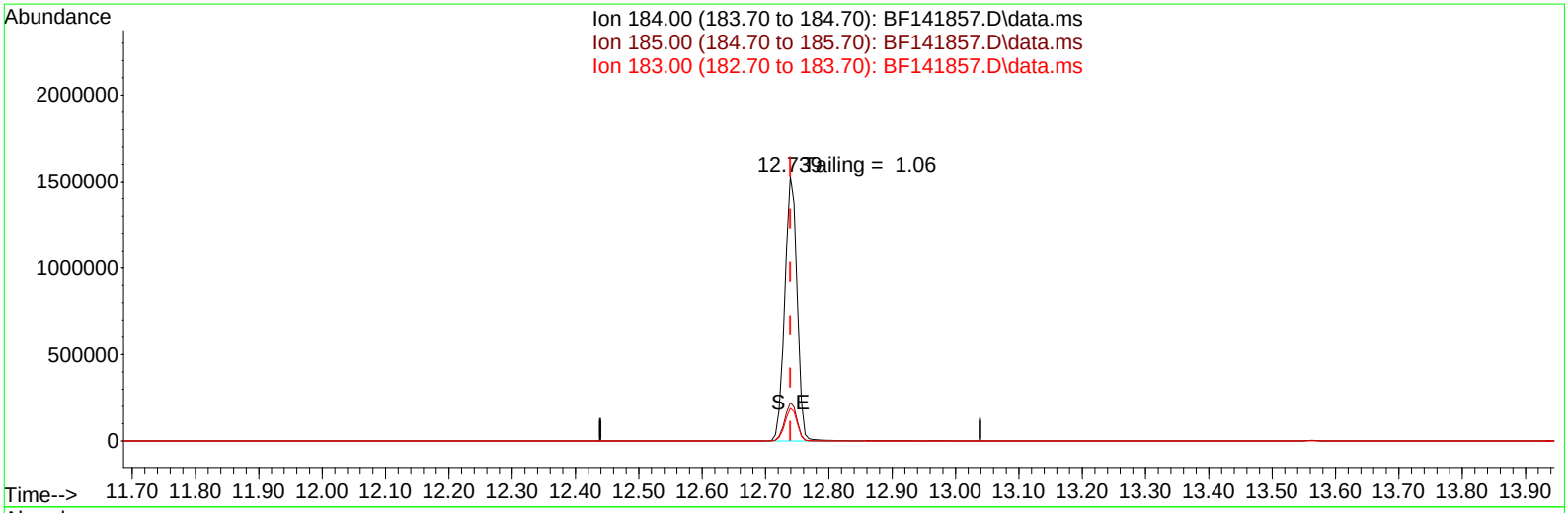
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.51
264.00	62.80	63.59
0.00	0.00	0.00

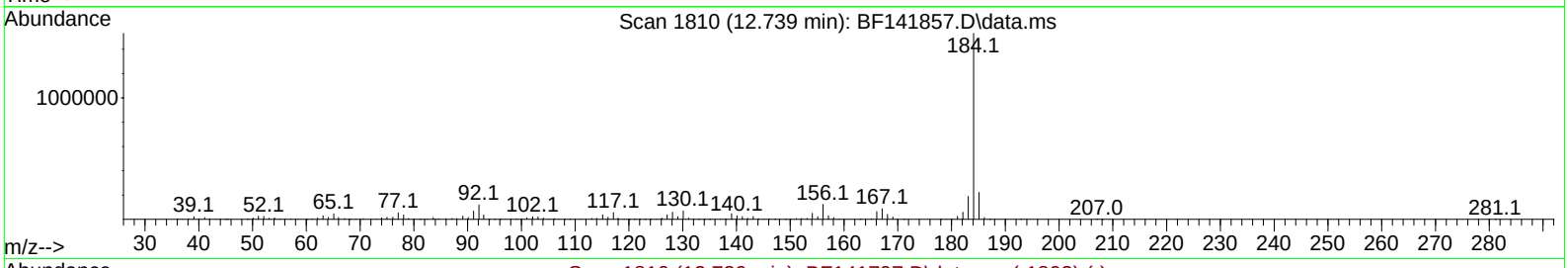
Sample Results: **BF141857.D**

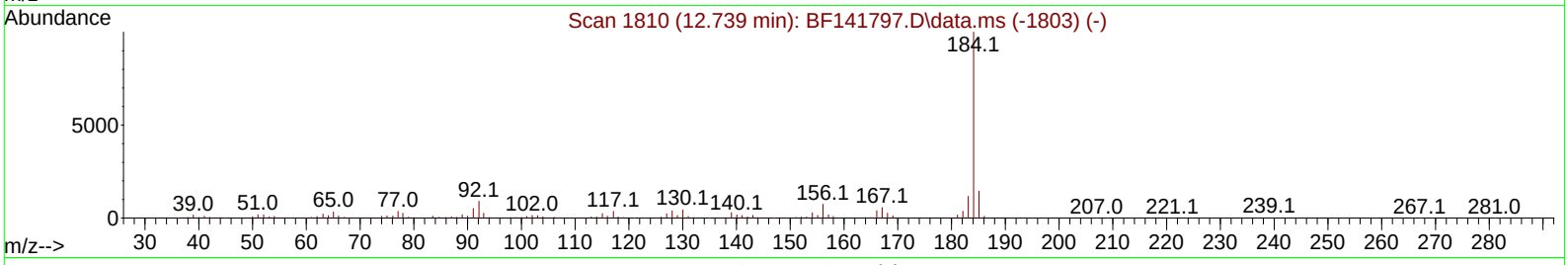
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141857.D
Acq On : 06 Mar 2025 08:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Mar 06 17:12:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration







TIC: BF141857.D\data.ms

(77) Benzidine

12.739min (+ 0.000) 49273.09 ng

response 2084395

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.51
183.00	11.70	12.37
0.00	0.00	0.00

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1487
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	180	330	ug/Kg
108-95-2	Phenol	170	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	170	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	90.9	170	ug/Kg
98-86-2	Acetophenone	170	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	170	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	170	U	90.8	170	ug/Kg
78-59-1	Isophorone	170	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	75.5	170	ug/Kg
91-20-3	Naphthalene	170	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	83.3	170	ug/Kg
105-60-2	Caprolactam	330	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	81.7	170	ug/Kg

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1487
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	170	U	86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	83.2	170	ug/Kg
99-09-2	3-Nitroaniline	170	U	89.2	170	ug/Kg
83-32-9	Acenaphthene	170	U	81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	120	330	ug/Kg
132-64-9	Dibenzofuran	170	U	84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	86.2	170	ug/Kg
84-66-2	Diethylphthalate	170	U	80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	85.6	170	ug/Kg
86-73-7	Fluorene	170	U	85.5	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	85.0	170	ug/Kg
1912-24-9	Atrazine	170	U	91.4	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	77.3	330	ug/Kg
85-01-8	Phenanthrene	170	U	84.0	170	ug/Kg
120-12-7	Anthracene	170	U	84.4	170	ug/Kg
86-74-8	Carbazole	170	U	80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	84.3	170	ug/Kg
206-44-0	Fluoranthene	170	U	81.7	170	ug/Kg
129-00-0	Pyrene	170	U	83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	80.7	170	ug/Kg
218-01-9	Chrysene	170	U	79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	81.1	170	ug/Kg

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BL	SDG No.:	Q1487
Lab Sample ID:	PB166984BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	170	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	86.8	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	126		18 - 112	84%	SPK: 150
13127-88-3	Phenol-d6	119		15 - 107	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		18 - 107	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		10 - 116	111%	SPK: 150
1718-51-0	Terphenyl-d14	82.5		10 - 105	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	219000	6.887			
1146-65-2	Naphthalene-d8	872000	8.163			
15067-26-2	Acenaphthene-d10	478000	9.916			
1517-22-2	Phenanthrene-d10	848000	11.404			
1719-03-5	Chrysene-d12	692000	14.039			
1520-96-3	Perylene-d12	552000	15.51			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	76.0	J		2.24	ug/Kg

Raw Data: **BF141859.D**

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

Report of Analysis

Client:	JPCL Engineering			Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges			Date Received:	
Client Sample ID:	PB166984BL			SDG No.:	Q1487
Lab Sample ID:	PB166984BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units: g		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SVOC-TCL BNA -20
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141859.D	1	03/05/25 09:40	03/06/25 10:22	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

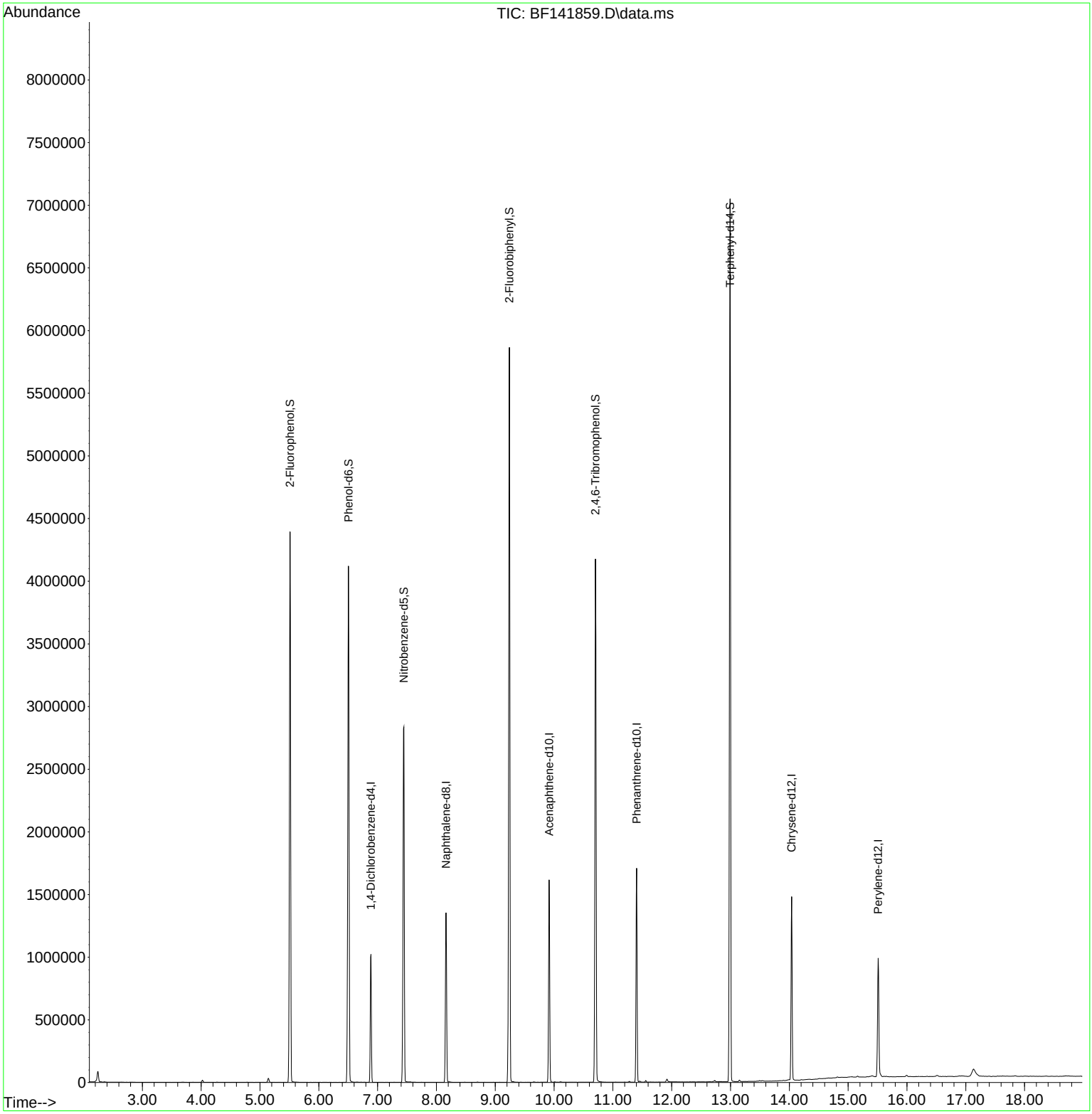
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	218862	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	871720	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	477596	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	848035	20.000	ng	0.00
76) Chrysene-d12	14.039	240	691946	20.000	ng	-0.01
86) Perylene-d12	15.510	264	552165	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	1730529	126.273	ng	0.01
7) Phenol-d6	6.504	99	2123556	119.048	ng	0.00
23) Nitrobenzene-d5	7.445	82	1433035	105.079	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	746687	166.531	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	2725247	91.496	ng	0.00
79) Terphenyl-d14	12.992	244	3529158	82.519	ng	0.00
Target Compounds						Qvalue

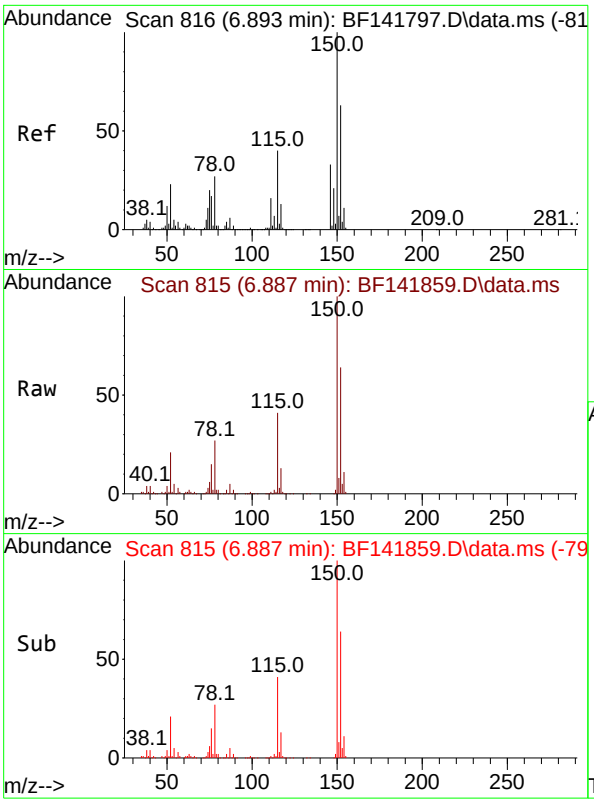
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Time: Mar 06 10:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration



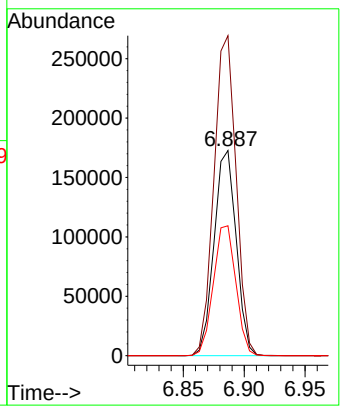


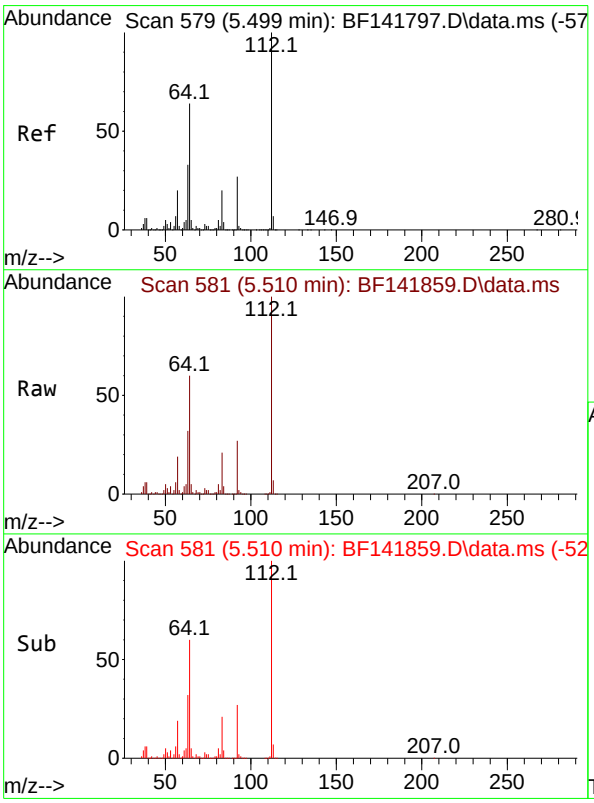
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:152 Resp: 218862

Ion	Ratio	Lower	Upper
152	100		
150	155.9	127.5	191.3
115	63.3	51.4	77.2

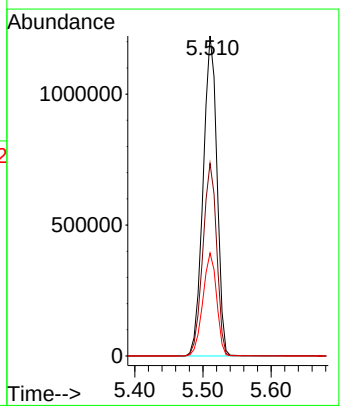


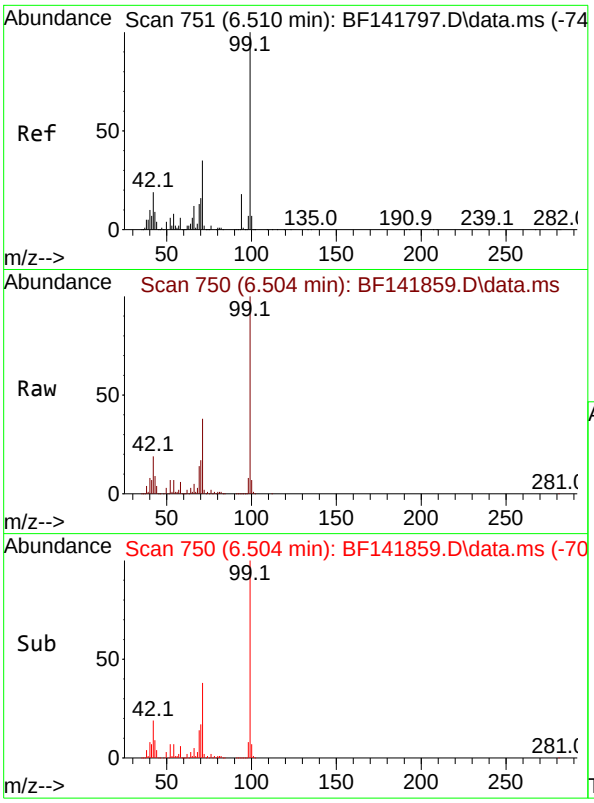


#5
2-Fluorophenol
Concen: 126.273 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:112 Resp: 1730529

Ion	Ratio	Lower	Upper
112	100		
64	60.2	51.3	76.9
63	32.2	26.2	39.4



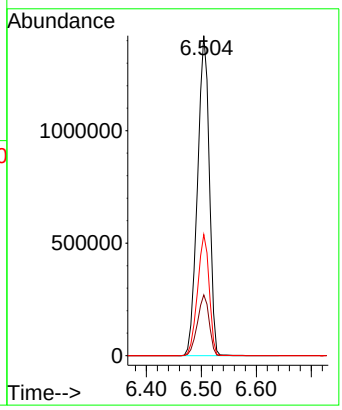


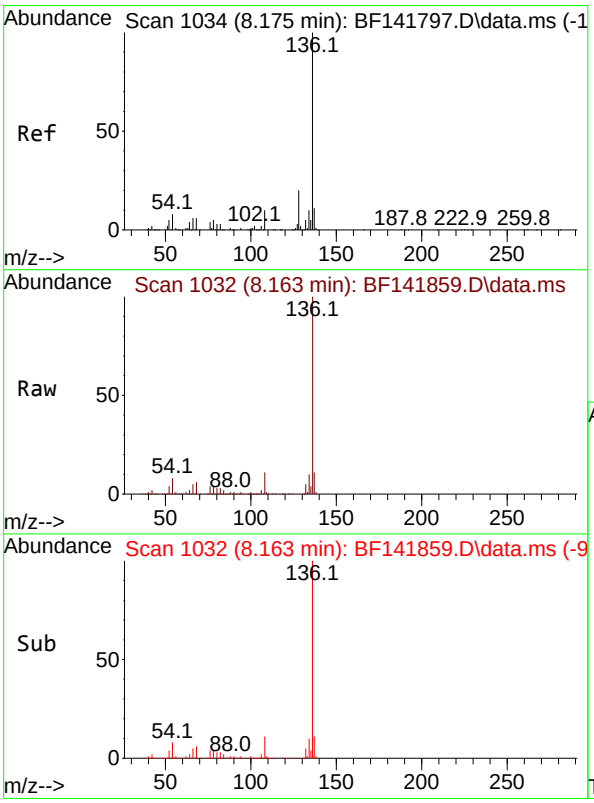
#7
Phenol-d6
Concen: 119.048 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion: 99 Resp: 2123556

Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	37.8	28.2	42.2

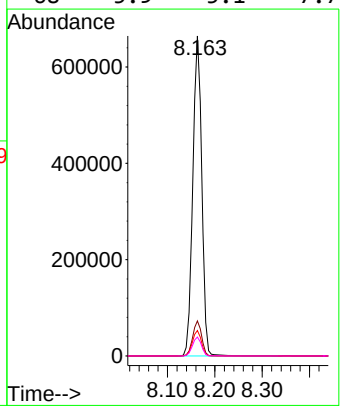


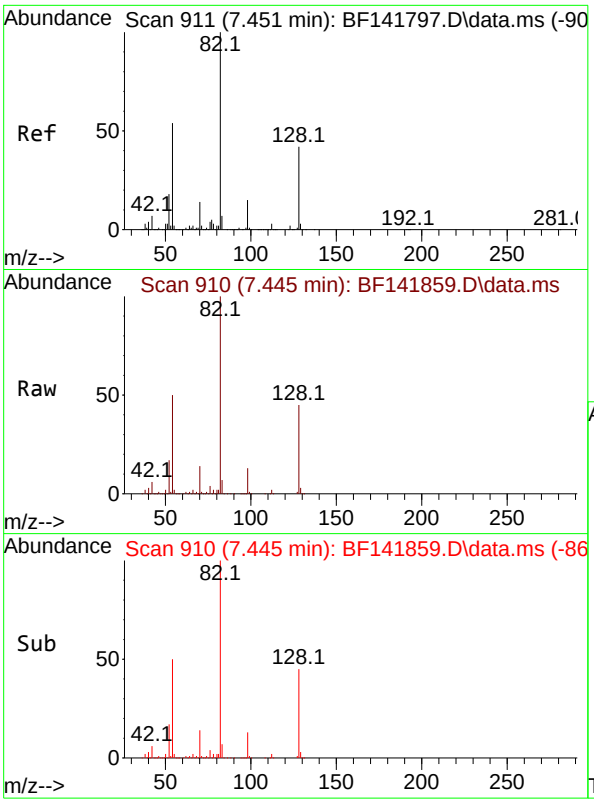


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:136 Resp: 871720

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.9	6.9	10.3
68	5.9	5.1	7.7



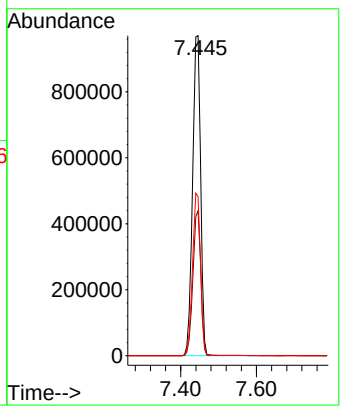


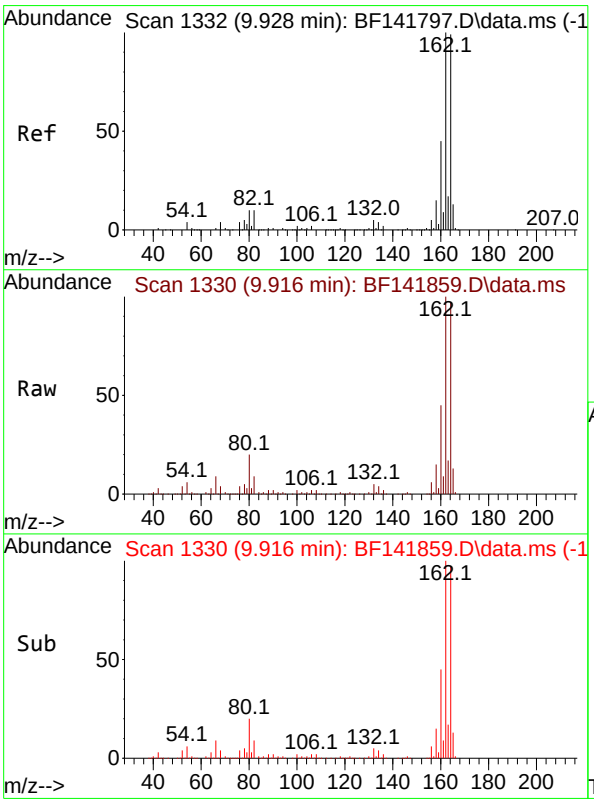
#23
Nitrobenzene-d5
Concen: 105.079 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion: 82 Resp: 1433035

Ion	Ratio	Lower	Upper
82	100		
128	45.3	33.5	50.3
54	49.8	42.7	64.1

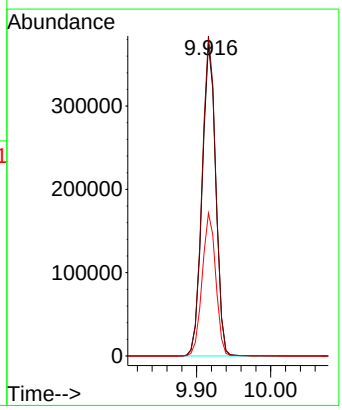


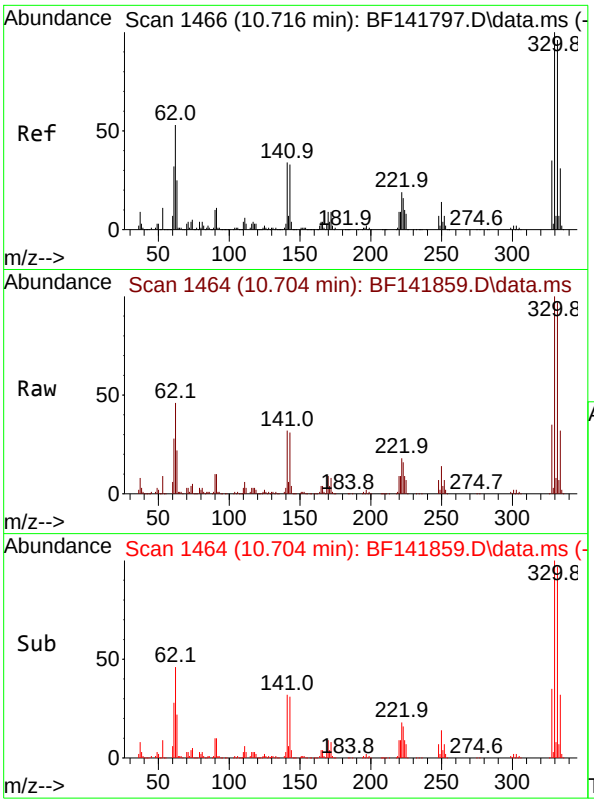


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:164 Resp: 477596

Ion	Ratio	Lower	Upper
164	100		
162	102.6	80.6	120.8
160	45.8	36.3	54.5



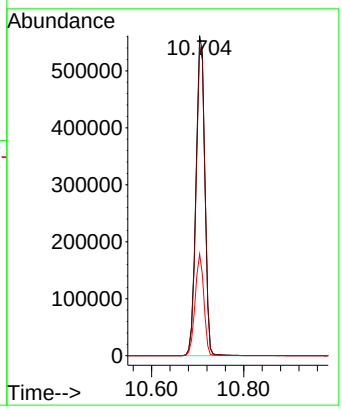


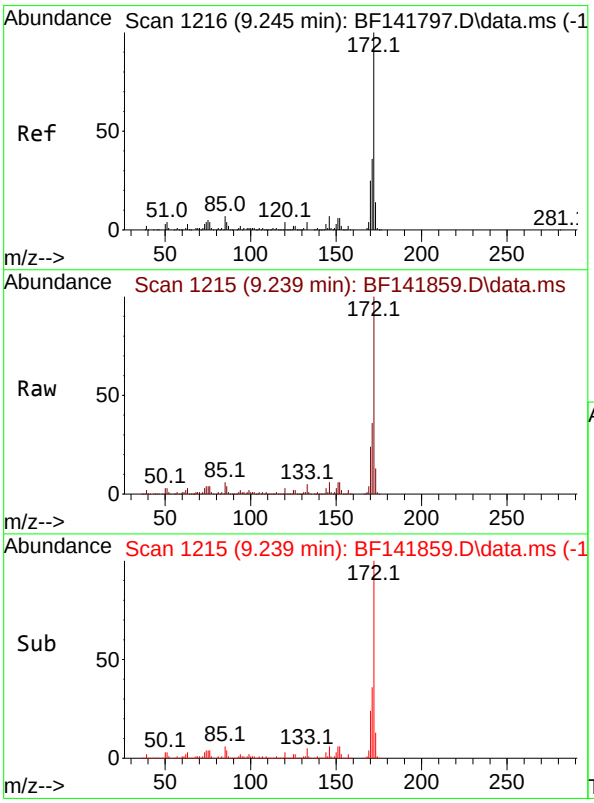
#42
2,4,6-Tribromophenol
Concen: 166.531 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:330 Resp: 746687

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.6	115.0
141	31.4	29.0	43.4

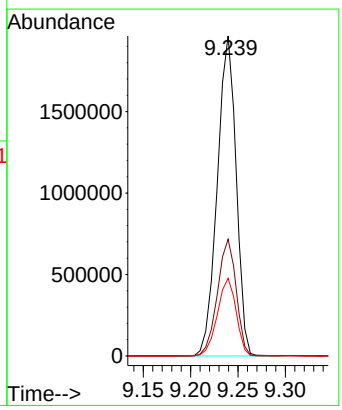


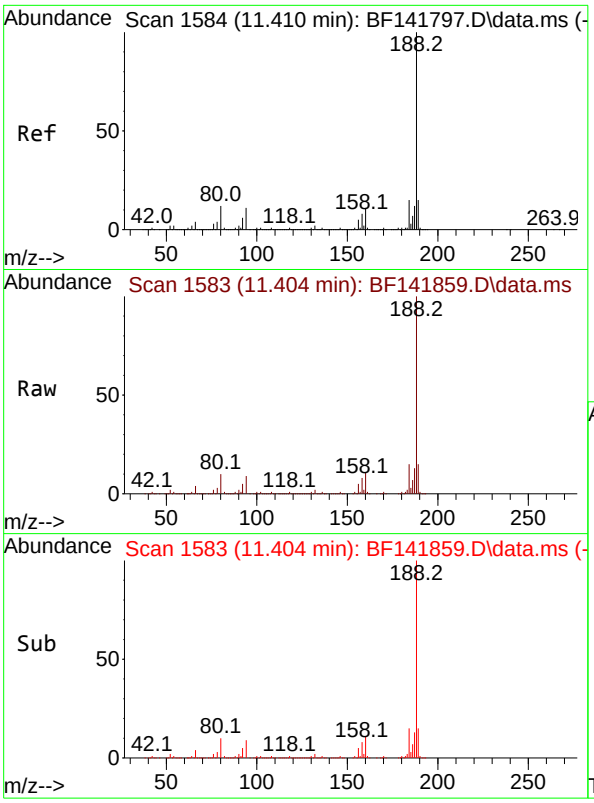


#45
2-Fluorobiphenyl
Concen: 91.496 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:172 Resp: 2725247

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.2	19.7	29.5



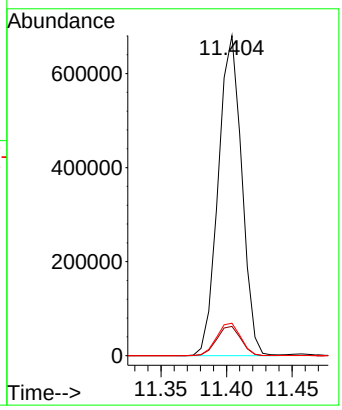


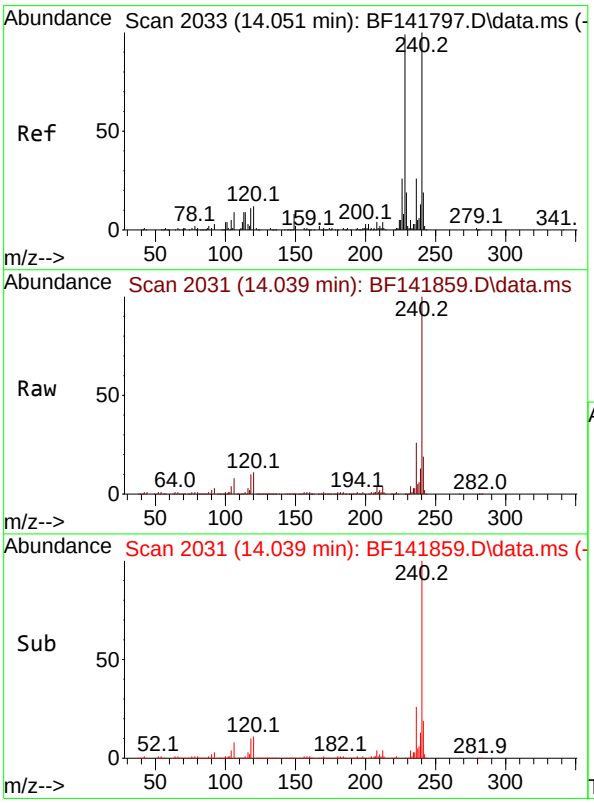
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:188 Resp: 848035

Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.9	13.3
80	10.1	9.7	14.5

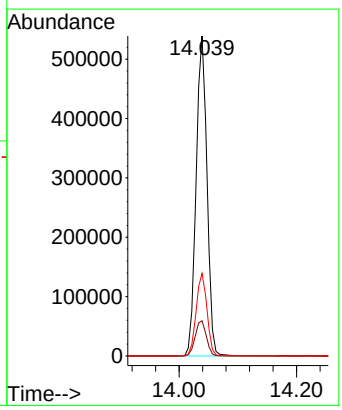


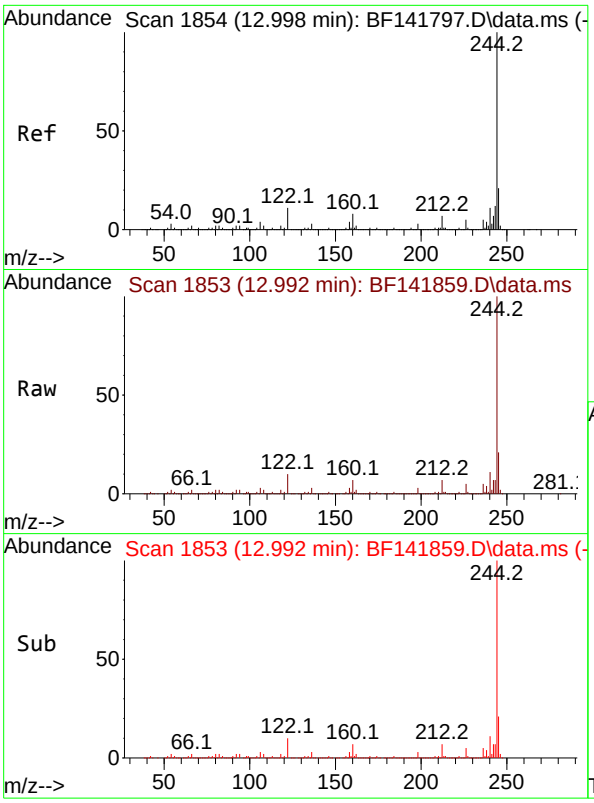


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:240 Resp: 691946

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.7	14.5
236	25.8	21.0	31.4



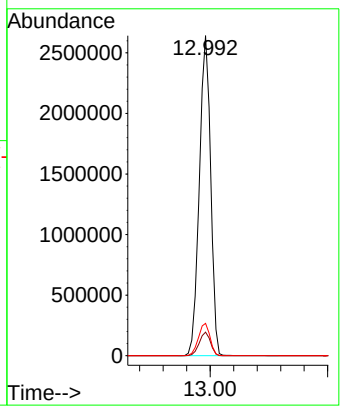


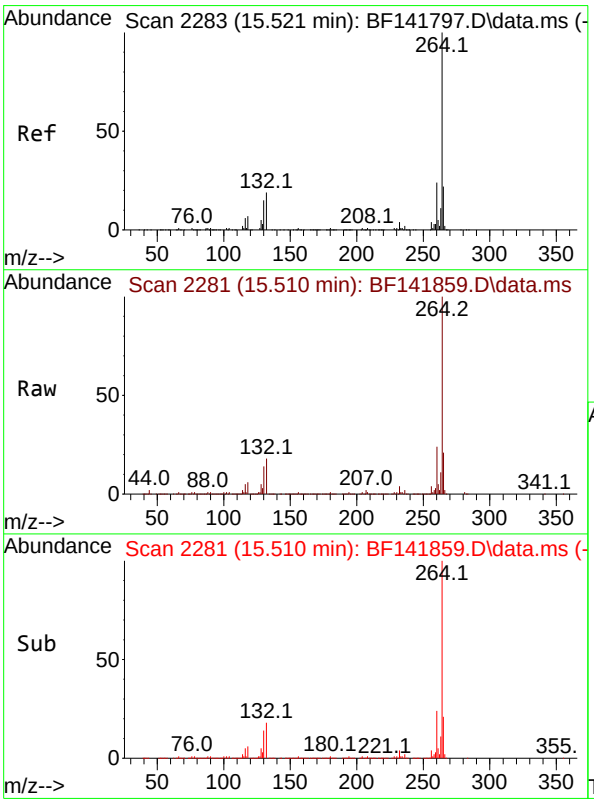
#79
Terphenyl-d14
Concen: 82.519 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Tgt Ion:244 Resp: 3529158

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	10.1	9.0	13.6

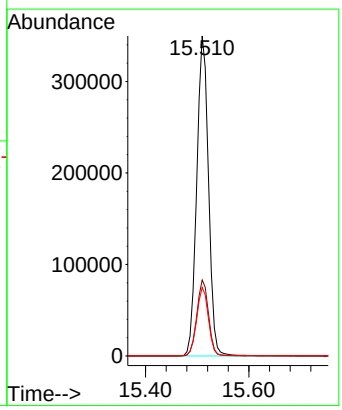




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141859.D
Acq: 06 Mar 2025 10:22

Tgt Ion:264 Resp: 552165

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.9	28.3
265	21.4	17.4	26.0



LSC Area Percent Report

Sample Results: **BF141859.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141859.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	14	25	31	rBV	81610	149341	1.59%	0.297%
2	5.510	574	581	586	rBV	4392822	6178026	65.67%	12.282%
3	6.504	743	750	755	rBV	4119823	6120759	65.06%	12.169%
4	6.887	809	815	820	rBV	1021567	1312062	13.95%	2.609%
5	7.445	903	910	915	rBV	2836233	4167253	44.30%	8.285%
6	8.163	1026	1032	1040	rBV	1353027	1764969	18.76%	3.509%
7	9.239	1208	1215	1220	rBV	5863702	8102468	86.13%	16.108%
8	9.916	1324	1330	1341	rBV	1615098	2058136	21.88%	4.092%
9	10.704	1457	1464	1469	rBV	4174632	5509630	58.57%	10.954%
10	11.404	1577	1583	1588	rBV	1707669	2137813	22.72%	4.250%
11	12.992	1846	1853	1858	rBV	7045093	9407646	100.00%	18.703%
12	14.039	2025	2031	2041	rVB	1463852	1886443	20.05%	3.750%
13	15.510	2275	2281	2295	rVB	945753	1504913	16.00%	2.992%

Sum of corrected areas: 50299459

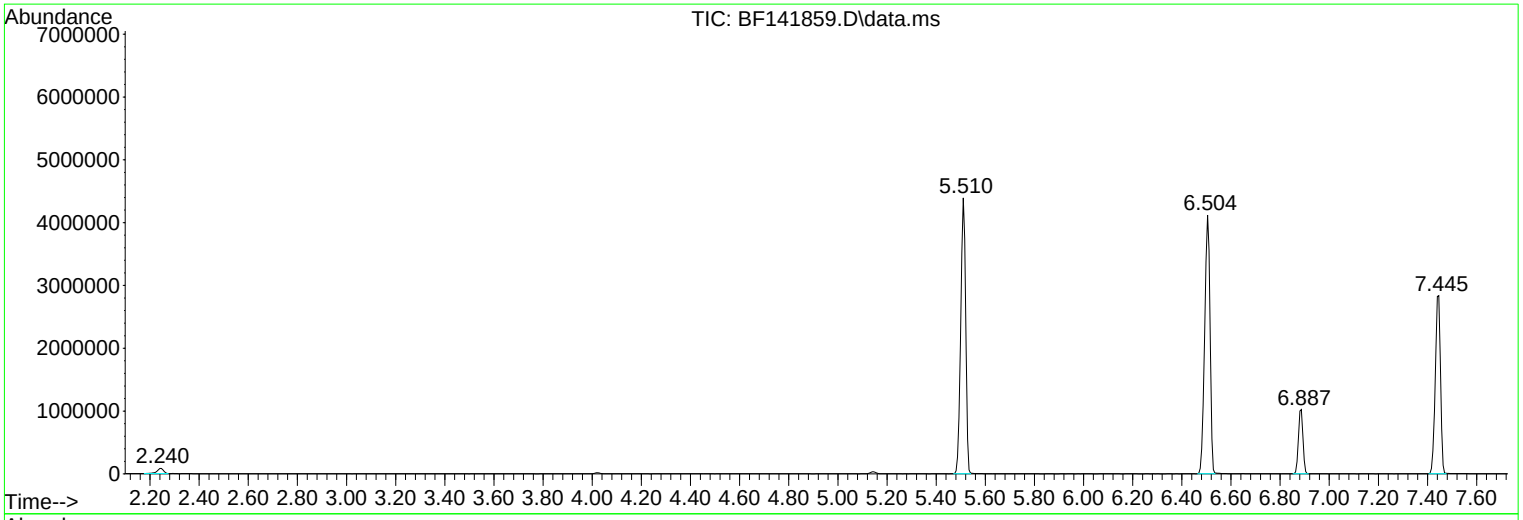
Sample Results: **BF141859.D**

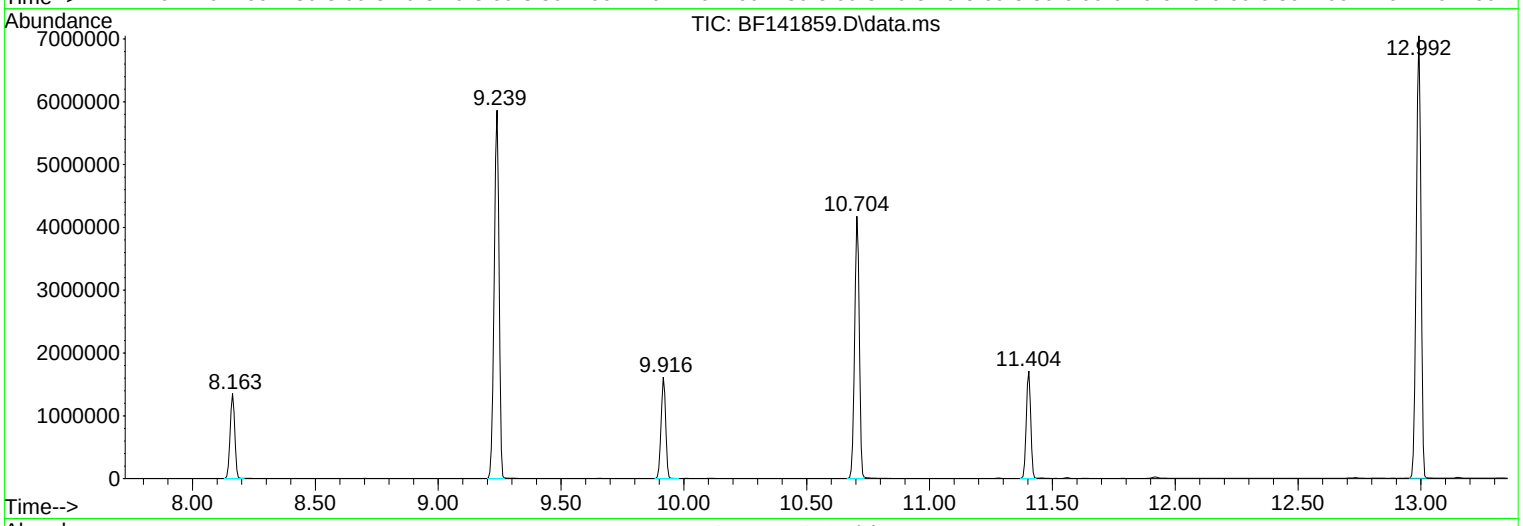
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

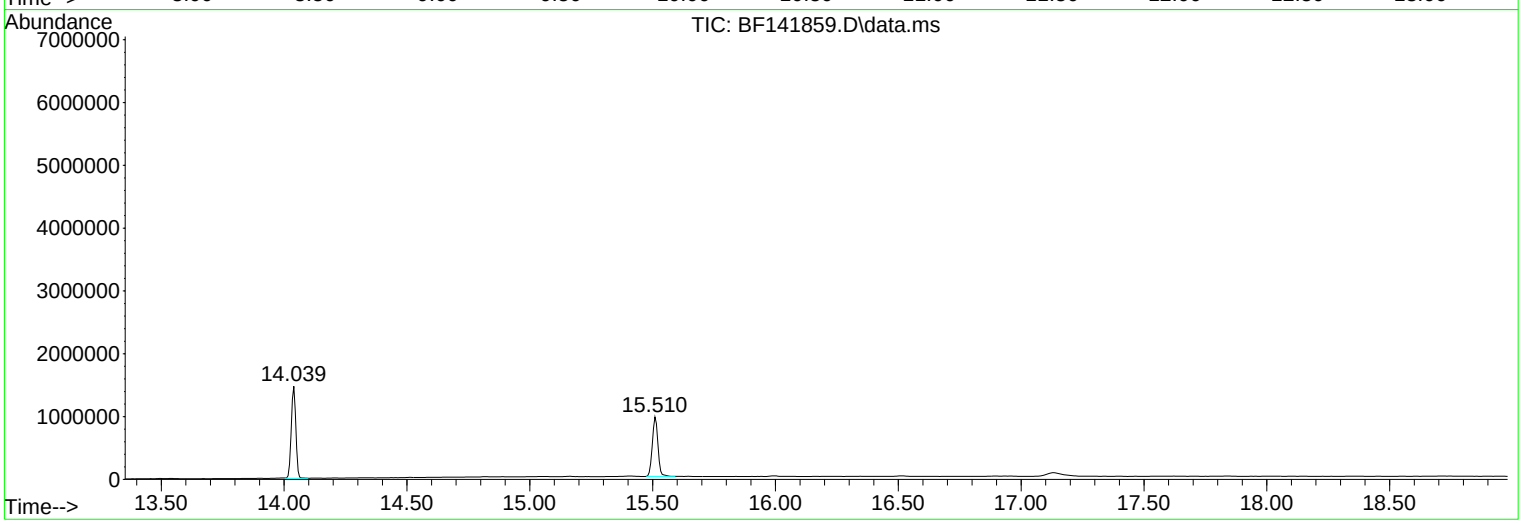
Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

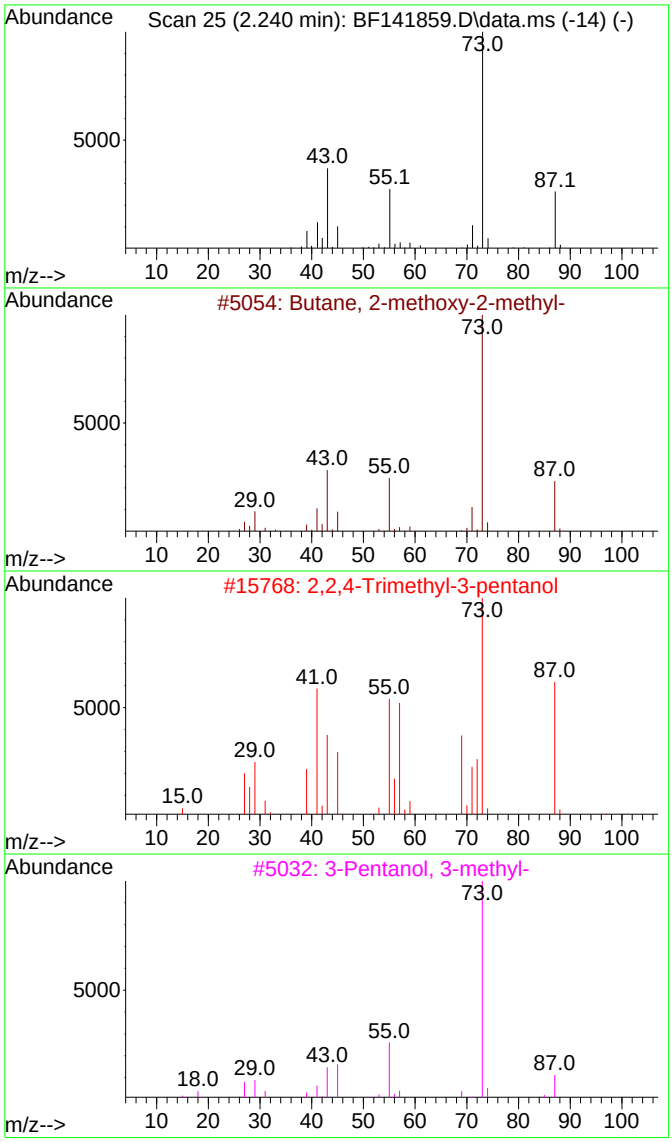
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

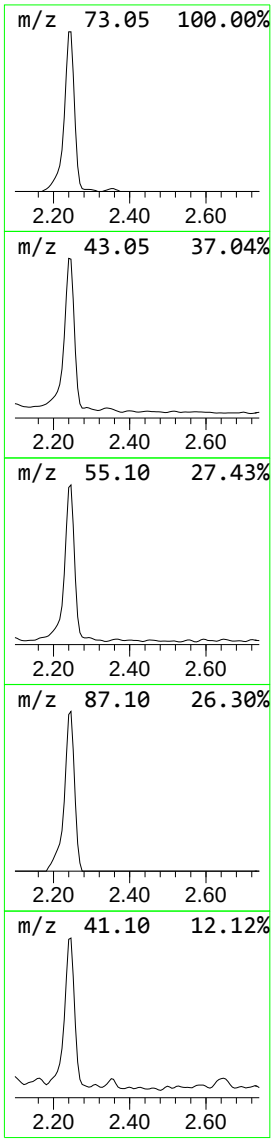
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	2.28 ng	149341	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	3-Pentanol, 3-methyl-	102	C6H14O	000077-74-7	38
4	Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	36
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141859.D
Acq On : 06 Mar 2025 10:22
Operator : RC/JU
Sample : PB166984BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.240	2.3	ng	149341	1	6.887	1312060	20.0

Raw Data: **BF141860.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1487
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	710		180	330	ug/Kg
108-95-2	Phenol	1300		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1300		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1300		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1200		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1400		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1400		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1600		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	400		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1400		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.6	170	ug/Kg

Raw Data: **BF141860.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1487
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1500		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	850		89.1	170	ug/Kg
83-32-9	Acenaphthene	1600		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	3700	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3800	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1400		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		85.5	170	ug/Kg
86-73-7	Fluorene	1400		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1800		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1400		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	2000		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3000	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1400		83.9	170	ug/Kg
120-12-7	Anthracene	1400		84.3	170	ug/Kg
86-74-8	Carbazole	1400		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		81.6	170	ug/Kg
129-00-0	Pyrene	1400		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	720		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.6	170	ug/Kg
218-01-9	Chrysene	1400		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.0	170	ug/Kg

Raw Data: **BF141860.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	
Client Sample ID:	PB166984BS	SDG No.:	Q1487
Lab Sample ID:	PB166984BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141860.D	1	03/05/25 09:40	03/06/25 10:52	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1500		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1200		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1500		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		18 - 112	81%	SPK: 150
13127-88-3	Phenol-d6	116		15 - 107	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	105		18 - 107	105%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.3		20 - 109	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		10 - 116	110%	SPK: 150
1718-51-0	Terphenyl-d14	94.9		10 - 105	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	223000	6.887			
1146-65-2	Naphthalene-d8	860000	8.169			
15067-26-2	Acenaphthene-d10	467000	9.922			
1517-22-2	Phenanthrene-d10	802000	11.41			
1719-03-5	Chrysene-d12	537000	14.045			
1520-96-3	Perylene-d12	470000	15.515			

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\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	222677	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	860348	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	467040	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	801941	20.000	ng	0.00
76) Chrysene-d12	14.045	240	537472	20.000	ng	0.00
86) Perylene-d12	15.515	264	470320	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1701069	121.997	ng	0.02
7) Phenol-d6	6.510	99	2108392	116.173	ng	0.00
23) Nitrobenzene-d5	7.445	82	1408232	104.625	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	725902	165.555	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	2659506	91.306	ng	0.00
79) Terphenyl-d14	12.992	244	3153921	94.941	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.763	88	226101	35.737	ng	97
3) Pyridine	3.522	79	549854	34.929	ng	96
4) n-Nitrosodimethylamine	3.469	42	285971	37.755	ng	99
6) Aniline	6.551	93	522189	27.676	ng	99
8) 2-Chlorophenol	6.669	128	628313	41.655	ng	96
9) Benzaldehyde	6.434	77	225786	21.388	ng	99
10) Phenol	6.522	94	741067	38.212	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	565937	38.283	ng	96
12) 1,3-Dichlorobenzene	6.828	146	656353	40.633	ng	99
13) 1,4-Dichlorobenzene	6.904	146	663658	40.775	ng	99
14) 1,2-Dichlorobenzene	7.057	146	641692	42.221	ng	99
15) Benzyl Alcohol	7.022	79	556826	38.390	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	756011	33.675	ng	96
17) 2-Methylphenol	7.134	107	501492	40.279	ng	98
18) Hexachloroethane	7.398	117	250476	41.116	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	427099	35.799	ng	98
20) 3+4-Methylphenols	7.281	107	621360	40.079	ng	94
22) Acetophenone	7.292	105	924853	44.138	ng	99
24) Nitrobenzene	7.463	77	656445	45.544	ng	100
25) Isophorone	7.704	82	1189358	41.131	ng	99
26) 2-Nitrophenol	7.781	139	317830	49.233	ng	98
27) 2,4-Dimethylphenol	7.810	122	545219	51.293	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	709782	38.479	ng	99
29) 2,4-Dichlorophenol	8.016	162	509337	41.536	ng	100
30) 1,2,4-Trichlorobenzene	8.104	180	565708	42.101	ng	99
31) Naphthalene	8.187	128	1798156	40.665	ng	99
32) Benzoic acid	7.928	122	436083	48.969	ng	98
33) 4-Chloroaniline	8.228	127	196072	12.093	ng	98
34) Hexachlorobutadiene	8.304	225	363439	43.526	ng	99
35) Caprolactam	8.598	113	181228m	48.041	ng	
36) 4-Chloro-3-methylphenol	8.710	107	555267	40.762	ng	97
37) 2-Methylnaphthalene	8.881	142	1136178	39.174	ng	100
38) 1-Methylnaphthalene	8.981	142	1106172	39.748	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	621149	46.050	ng	99
41) Hexachlorocyclopentadiene	9.034	237	830196	147.481	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	381567	43.792	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	393469	45.604	ng		98
46) 1,1'-Biphenyl	9.345	154	1611215	45.323	ng		98
47) 2-Chloronaphthalene	9.369	162	1098889	41.882	ng		99
48) 2-Nitroaniline	9.457	65	341789	47.626	ng		97
49) Acenaphthylene	9.786	152	1713470	43.557	ng		99
50) Dimethylphthalate	9.645	163	1313815	42.006	ng		99
51) 2,6-Dinitrotoluene	9.704	165	288768	48.247	ng		92
52) Acenaphthene	9.957	154	1266215	47.702	ng		99
53) 3-Nitroaniline	9.869	138	153204	25.520	ng	#	95
54) 2,4-Dinitrophenol	9.975	184	346122	111.084	ng	#	1
55) Dibenzofuran	10.128	168	1544243	39.970	ng		99
56) 4-Nitrophenol	10.028	139	525883	113.842	ng		95
57) 2,4-Dinitrotoluene	10.104	165	401637	54.446	ng		95
58) Fluorene	10.469	166	1226351	42.376	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.239	232	338195	45.070	ng		98
60) Diethylphthalate	10.345	149	1281425	40.869	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	612702	42.256	ng		99
62) 4-Nitroaniline	10.486	138	293220	54.897	ng		97
63) Azobenzene	10.622	77	1253041	37.955	ng		99
65) 4,6-Dinitro-2-methylph...	10.510	198	220801	56.697	ng		93
66) n-Nitrosodiphenylamine	10.581	169	1071992	40.709	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	391710	41.818	ng		98
68) Hexachlorobenzene	11.016	284	432837	43.759	ng		99
69) Atrazine	11.104	200	433249	59.829	ng		100
70) Pentachlorophenol	11.210	266	574113	91.516	ng		100
71) Phenanthrene	11.433	178	1812700	42.258	ng		100
72) Anthracene	11.486	178	1854922	43.146	ng		99
73) Carbazole	11.633	167	1634694	43.058	ng		100
74) Di-n-butylphthalate	11.969	149	1951706	40.557	ng		100
75) Fluoranthene	12.616	202	1922924	43.749	ng		98
77) Benzidine	12.733	184	493167	72.902	ng		100
78) Pyrene	12.845	202	1941461	41.714	ng		100
80) Butylbenzylphthalate	13.463	149	730230	43.184	ng		99
81) Benzo(a)anthracene	14.033	228	1506856	42.445	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	219648	21.565	ng		99
83) Chrysene	14.069	228	1403466	42.886	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	932426	44.285	ng		100
85) Di-n-octyl phthalate	14.633	149	1360035	43.146	ng		97
87) Indeno(1,2,3-cd)pyrene	17.004	276	1416313	47.292	ng		97
88) Benzo(b)fluoranthene	15.080	252	1297204	40.491	ng		99
89) Benzo(k)fluoranthene	15.110	252	1099133	40.365	ng		99
90) Benzo(a)pyrene	15.451	252	1136844	44.247	ng		99
91) Dibenzo(a,h)anthracene	17.027	278	1137230	46.521	ng		97
92) Benzo(g,h,i)perylene	17.457	276	1105086	44.126	ng		97

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

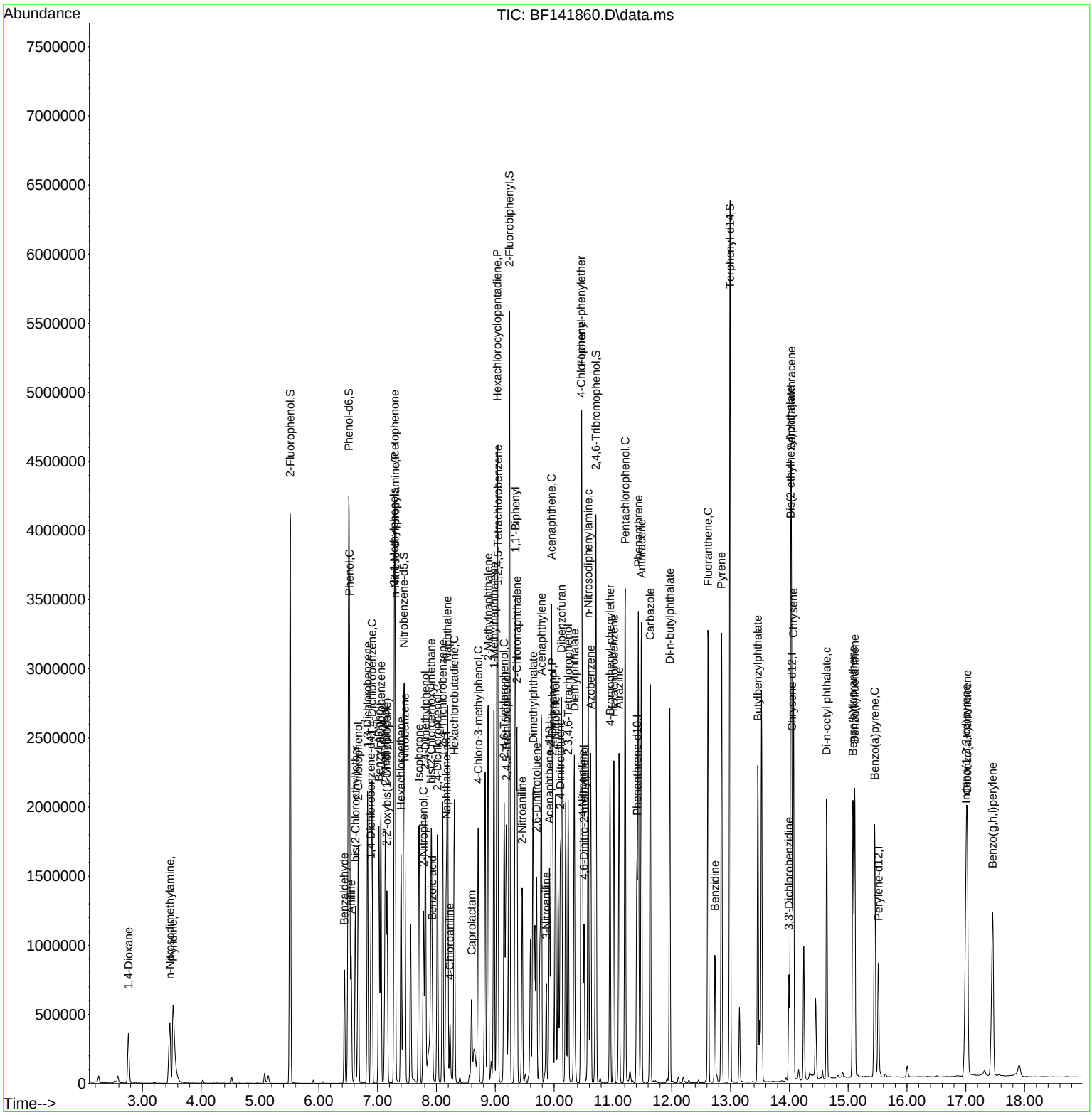
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030625\
Data File : BF141860.D
Acq On : 06 Mar 2025 10:52
Operator : RC/JU
Sample : PB166984BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

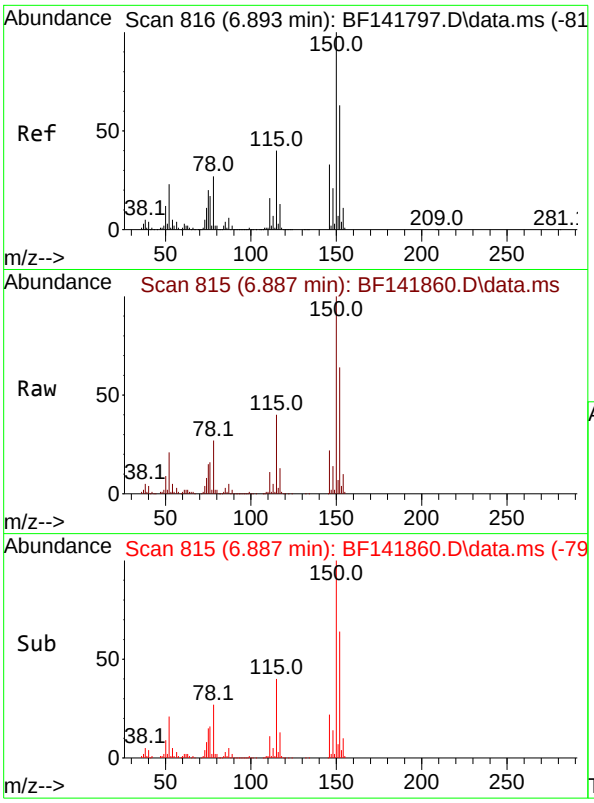
Quant Time: Mar 06 15:49:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

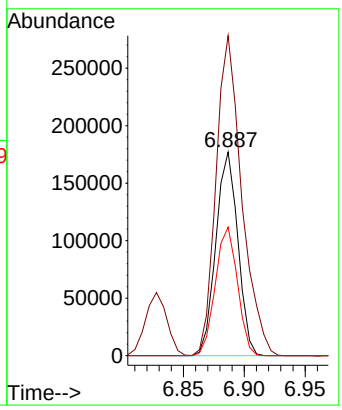
Tgt Ion:152 Resp: 22267

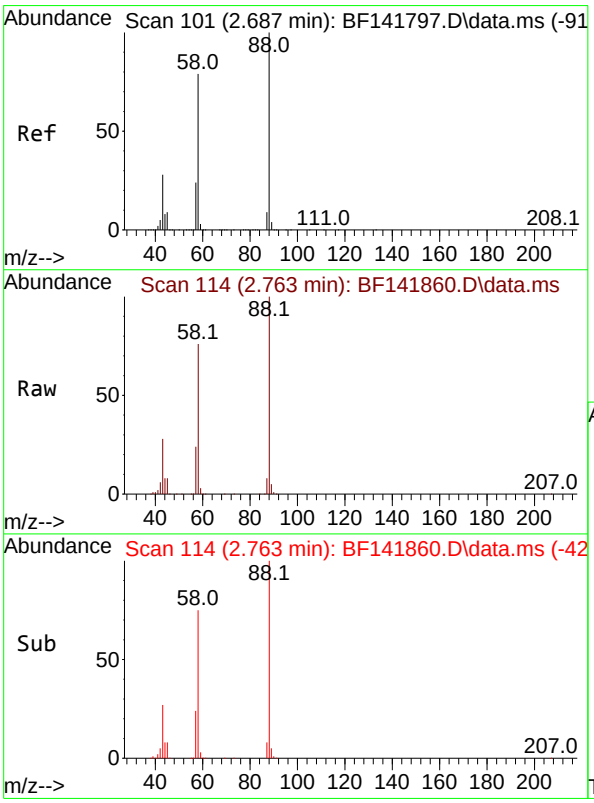
Ion	Ratio	Lower	Upper
152	100		
150	157.1	127.5	191.3
115	63.1	51.4	77.2

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

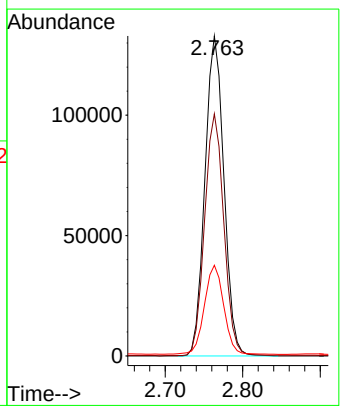


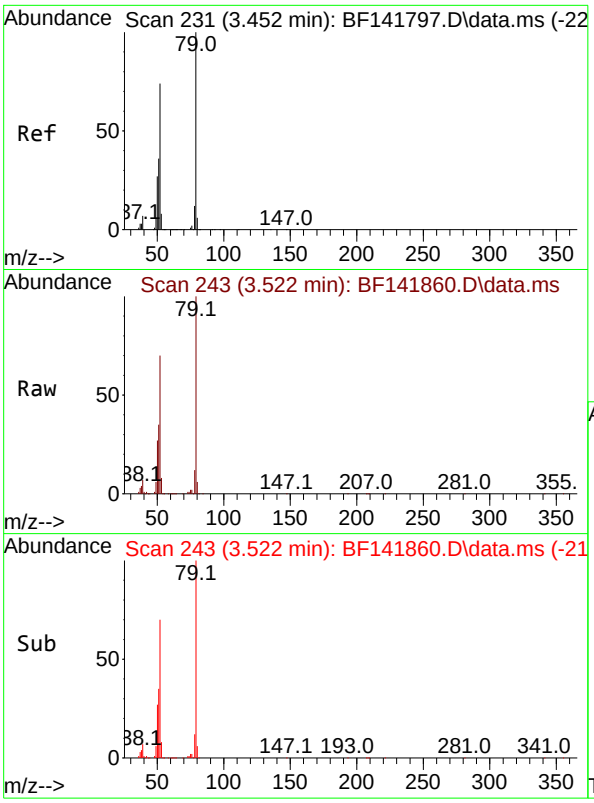


#2
1,4-Dioxane
Concen: 35.737 ng
RT: 2.763 min Scan# 114
Delta R.T. 0.076 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 88 Resp: 226101

Ion	Ratio	Lower	Upper
88	100		
58	76.9	63.9	95.9
43	28.3	23.0	34.6

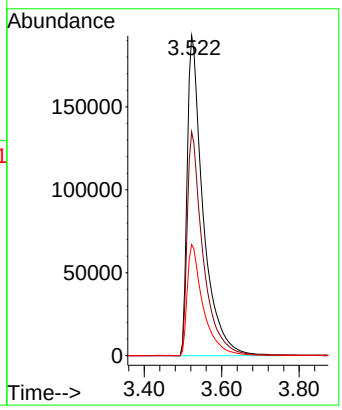




#3
Pyridine
Concen: 34.929 ng
RT: 3.522 min Scan# 24
Delta R.T. 0.070 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 79 Resp: 549854

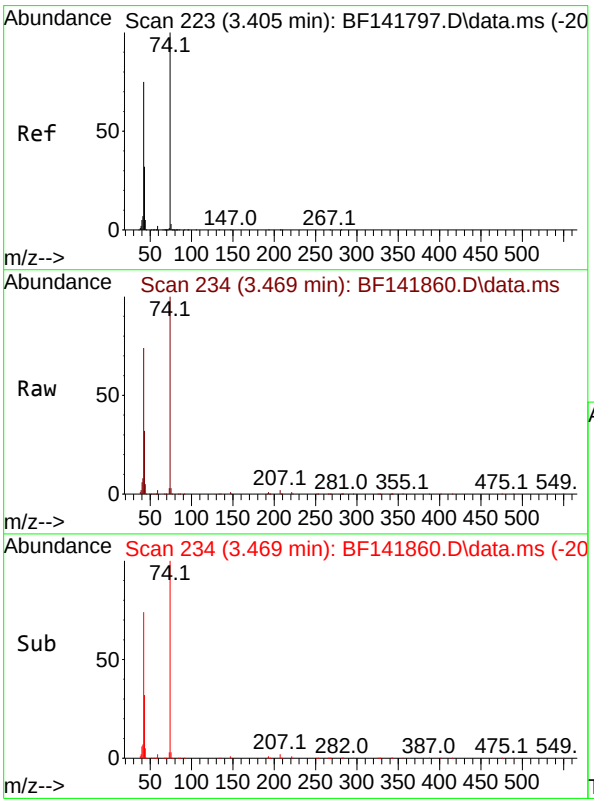
Ion	Ratio	Lower	Upper
79	100		
52	69.9	59.0	88.4
51	34.8	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

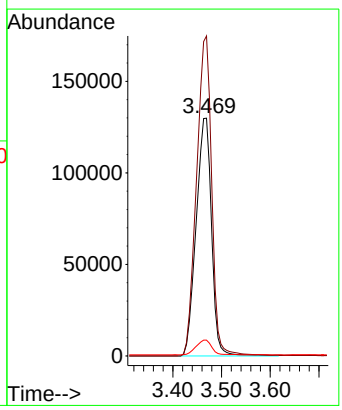
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

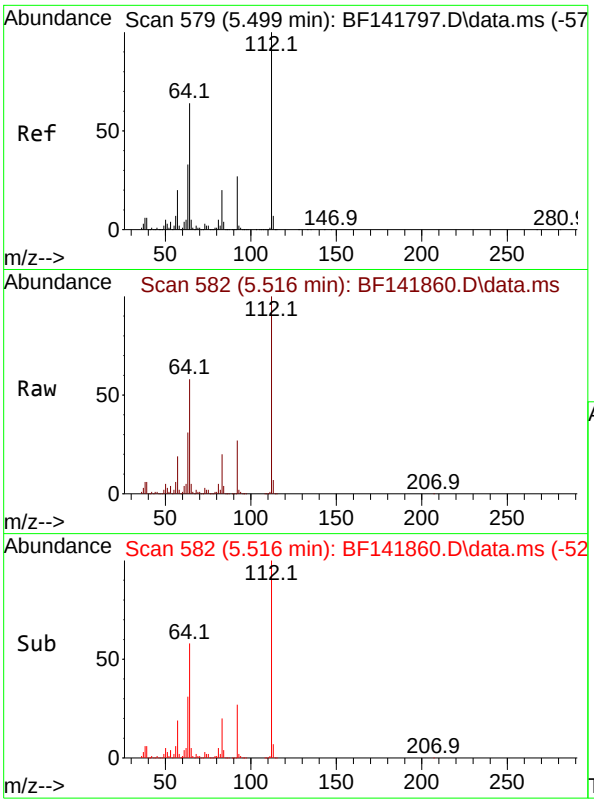


#4
n-Nitrosodimethylamine
Concen: 37.755 ng
RT: 3.469 min Scan# 234
Delta R.T. 0.065 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 42 Resp: 285971

Ion	Ratio	Lower	Upper
42	100		
74	134.6	107.1	160.7
44	6.7	6.6	9.8

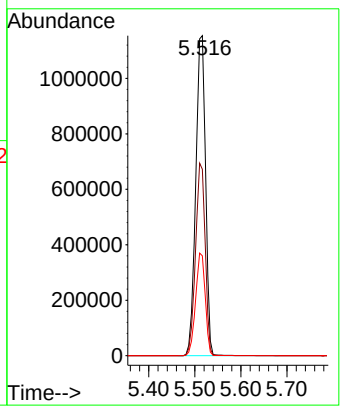




#5
2-Fluorophenol
Concen: 121.997 ng
RT: 5.516 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:112 Resp: 170106

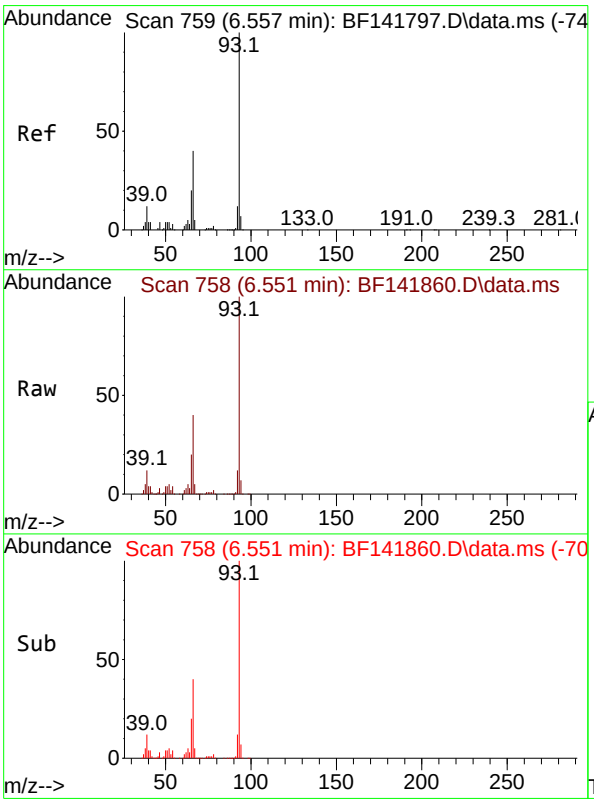
Ion	Ratio	Lower	Upper
112	100		
64	58.3	51.3	76.9
63	31.2	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

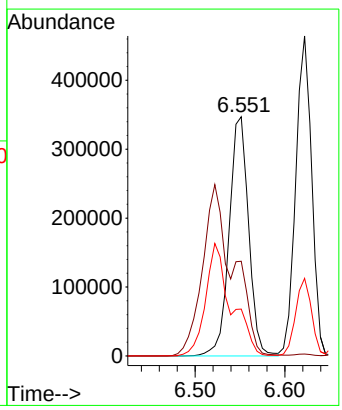
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

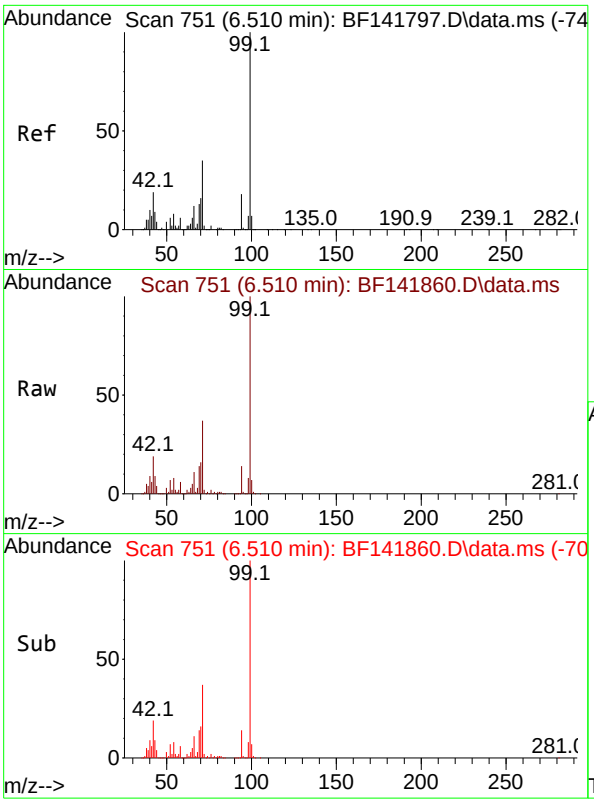


#6
Aniline
Concen: 27.676 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 522189

Ion	Ratio	Lower	Upper
93	100		
66	39.6	32.3	48.5
65	19.6	15.9	23.9

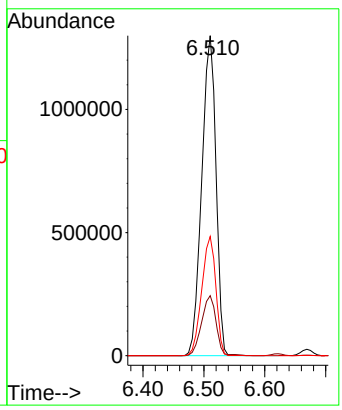




#7
Phenol-d6
Concen: 116.173 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 99 Resp: 210839

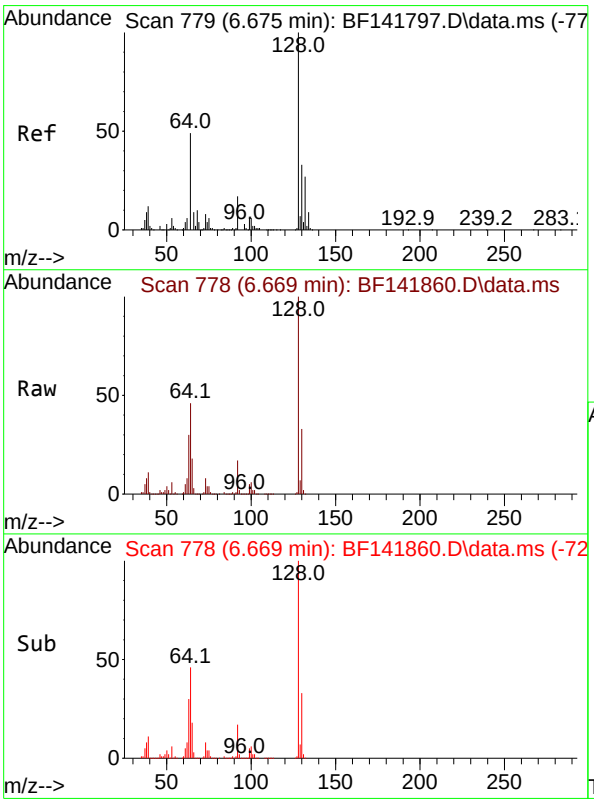
Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.2	22.8
71	37.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

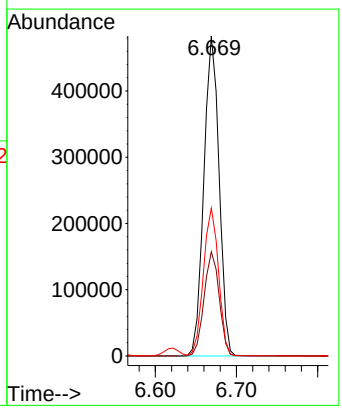
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

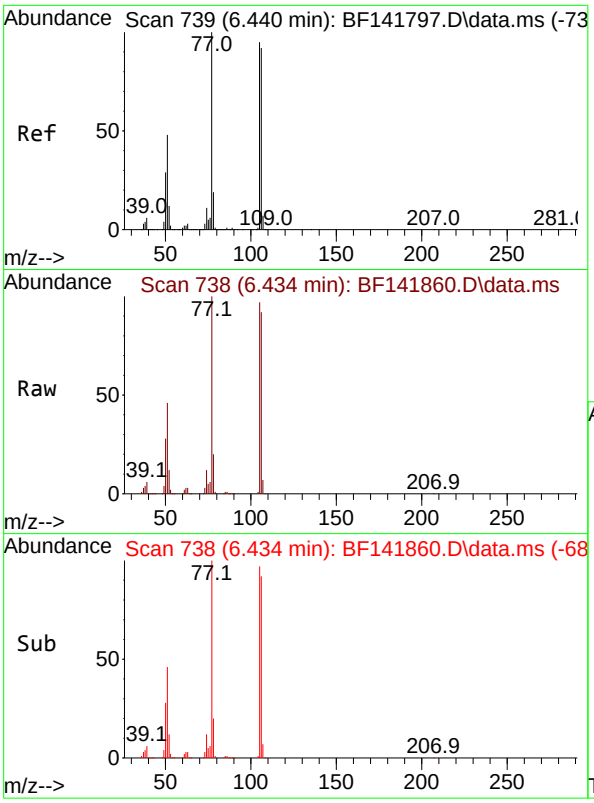


#8
2-Chlorophenol
Concen: 41.655 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:128 Resp: 628313

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	46.2	31.1	71.1

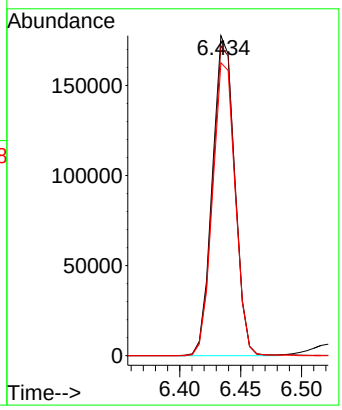




#9
Benzaldehyde
Concen: 21.388 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 22578

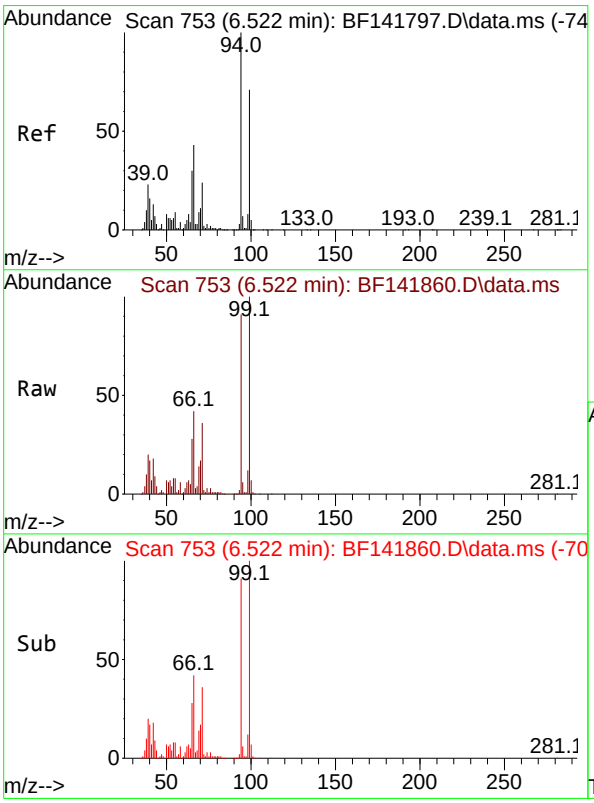
Ion	Ratio	Lower	Upper
77	100		
105	96.8	75.3	115.3
106	91.5	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

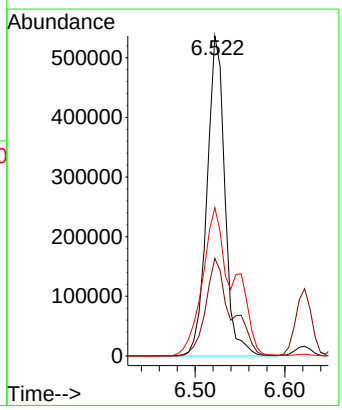
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

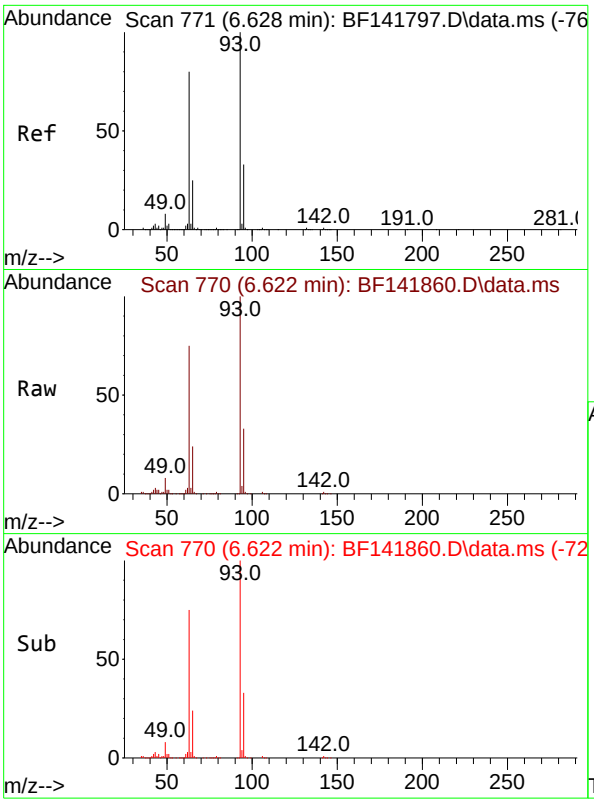


#10
Phenol
Concen: 38.212 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 94 Resp: 741067

Ion	Ratio	Lower	Upper
94	100		
65	30.4	10.2	50.2
66	46.3	23.2	63.2





#11
bis(2-Chloroethyl)ether
Concen: 38.283 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

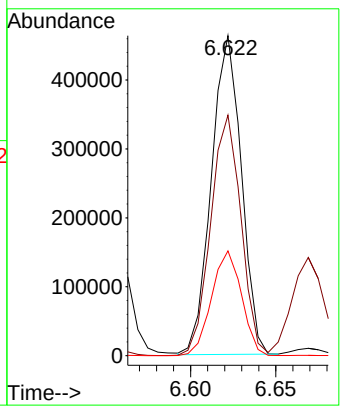
Tgt Ion: 93 Resp: 56593

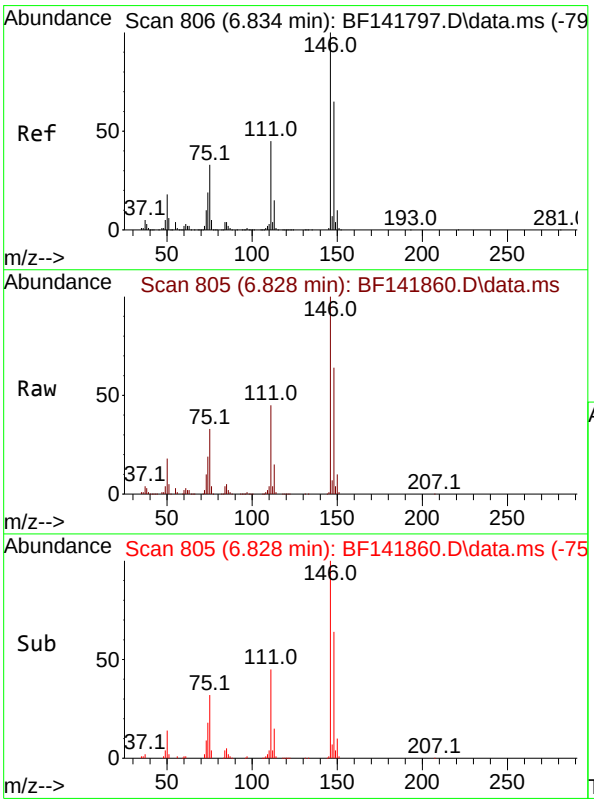
Ion	Ratio	Lower	Upper
93	100		
63	75.1	59.3	99.3
95	32.7	13.2	53.2

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

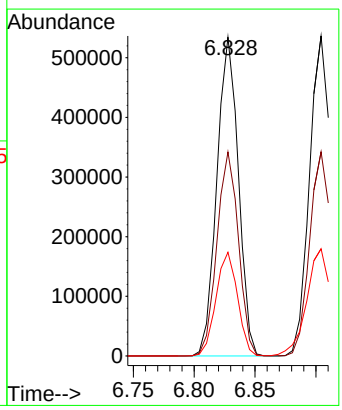


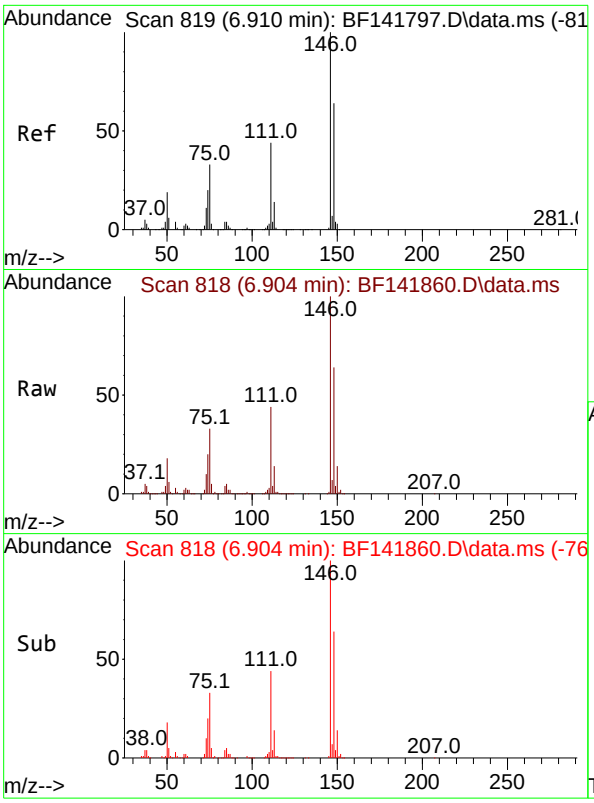


#12
1,3-Dichlorobenzene
Concen: 40.633 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 656353

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.8	77.6
75	32.5	26.2	39.4

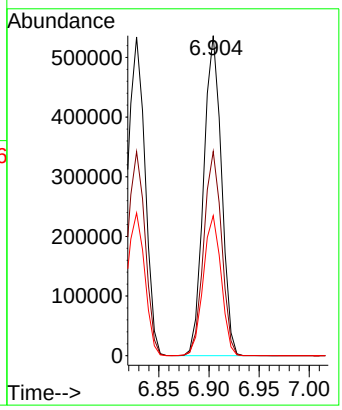




#13
1,4-Dichlorobenzene
Concen: 40.775 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 66365

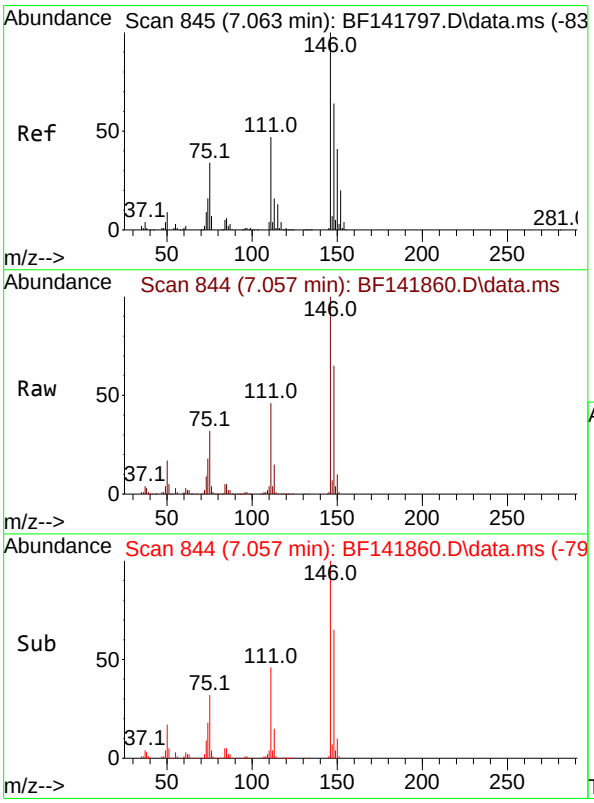
Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.4	77.2
111	43.8	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

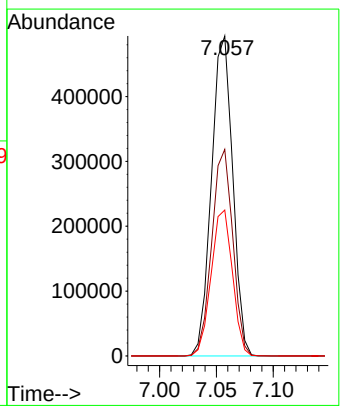
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

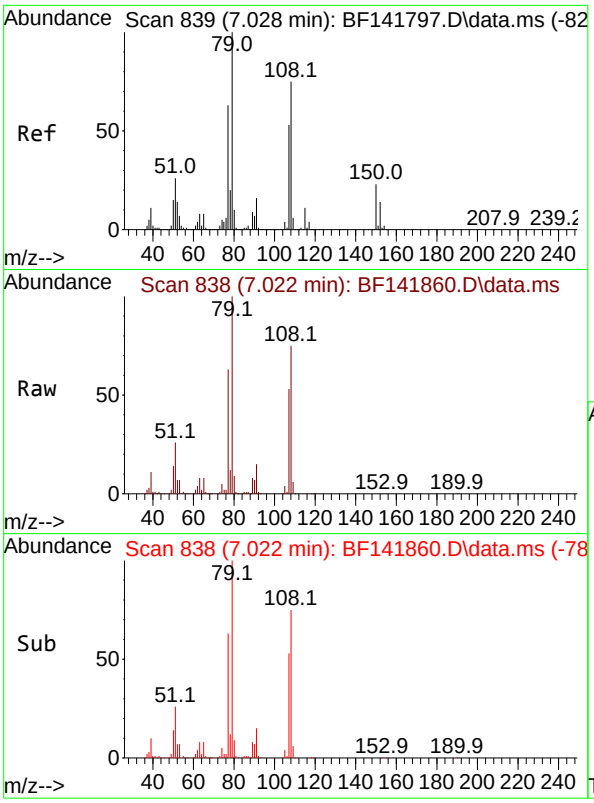


#14
1,2-Dichlorobenzene
Concen: 42.221 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:146 Resp: 641692

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	45.6	37.8	56.6

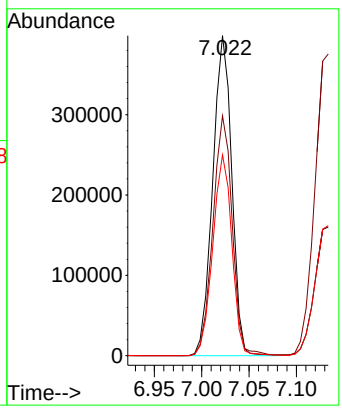




#15
Benzyl Alcohol
Concen: 38.390 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 79 Resp: 55682

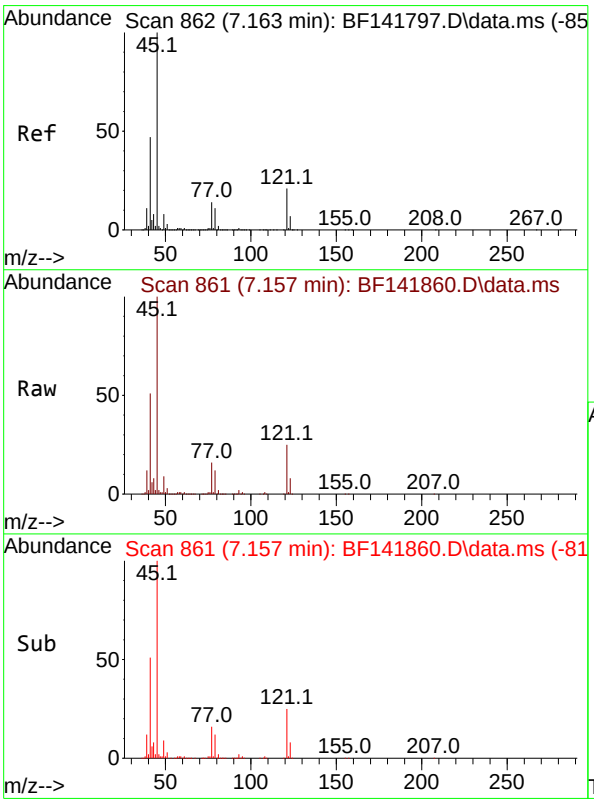
Ion	Ratio	Lower	Upper
79	100		
108	75.0	60.2	90.2
77	62.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

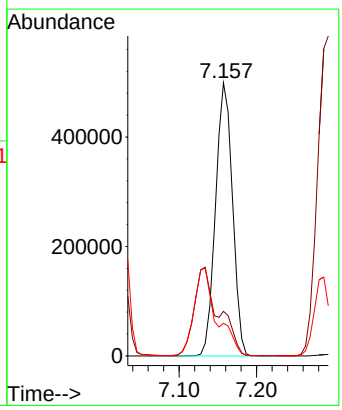
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

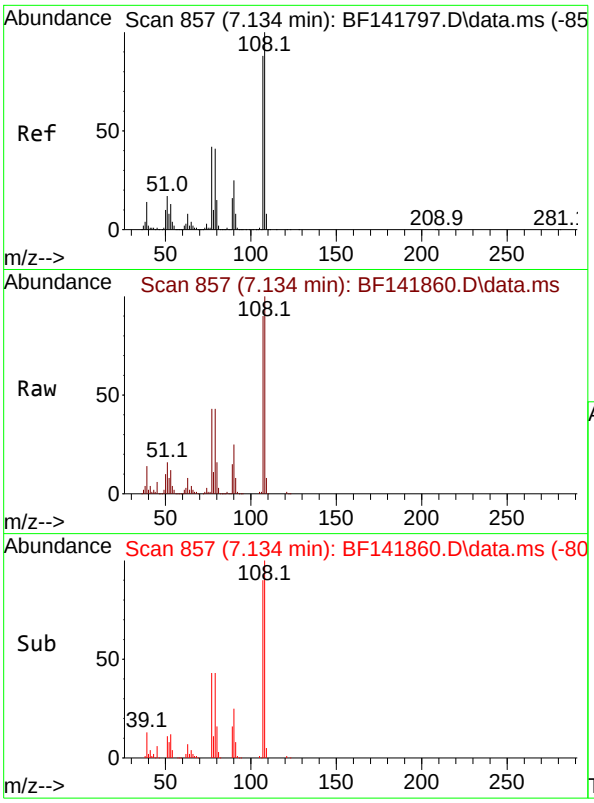


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.675 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 45 Resp: 756011

Ion	Ratio	Lower	Upper
45	100		
77	16.3	0.0	34.4
79	12.0	0.0	30.9

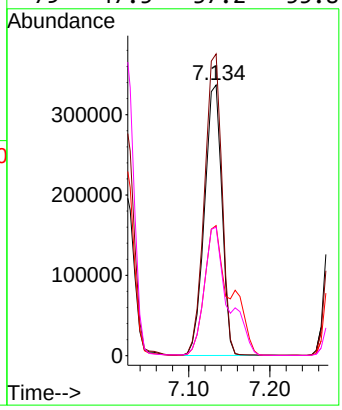




#17
2-Methylphenol
Concen: 40.279 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 50149

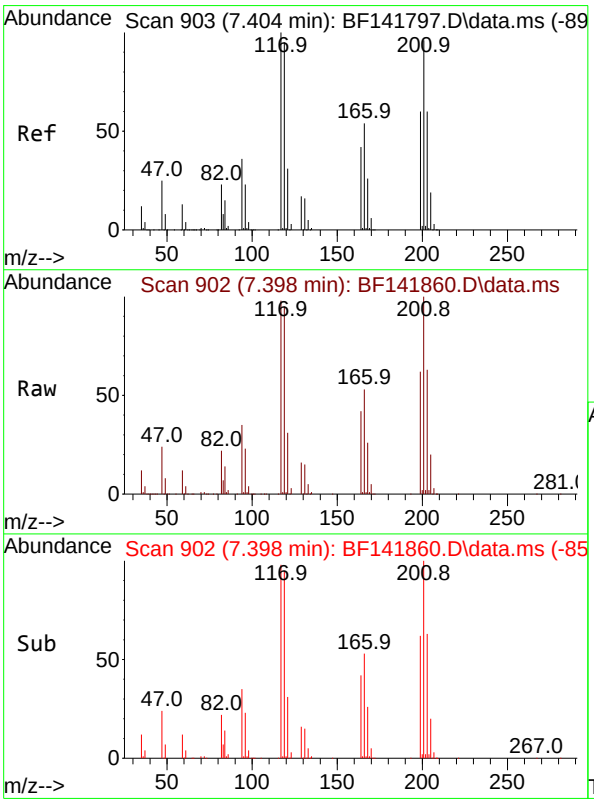
Ion	Ratio	Lower	Upper
107	100		
108	111.5	90.6	135.8
77	48.1	37.7	56.5
79	47.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

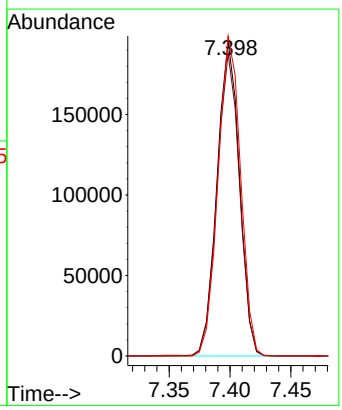
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

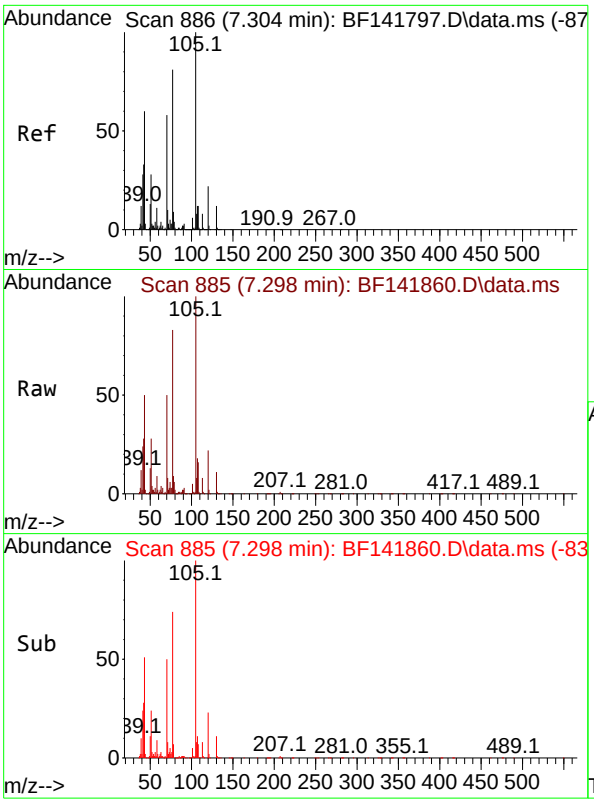


#18
Hexachloroethane
Concen: 41.116 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:117 Resp: 250476

Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.8	113.8
201	101.7	76.7	115.1

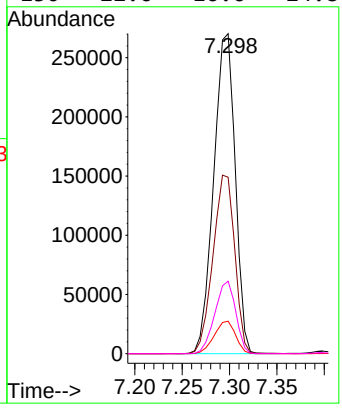




#19
n-Nitroso-di-n-propylamine
Concen: 35.799 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 70 Resp: 42709

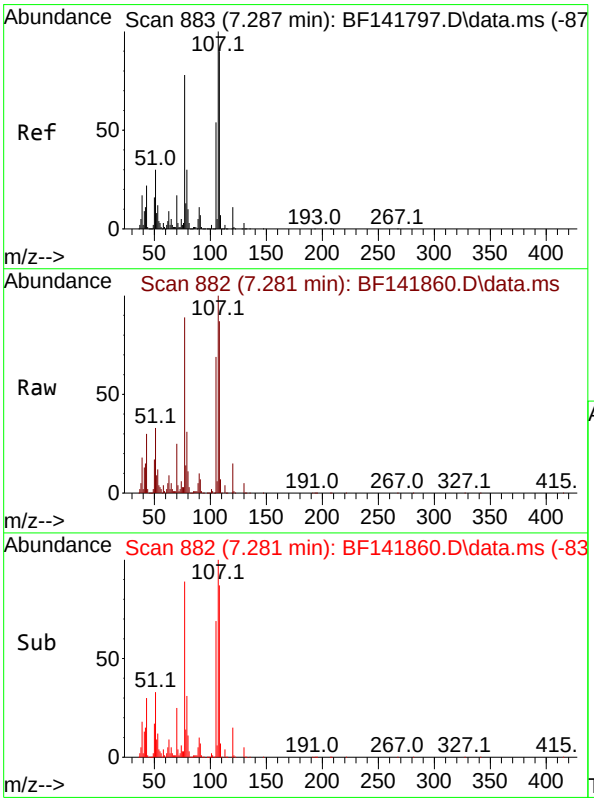
Ion	Ratio	Lower	Upper
70	100		
42	55.2	45.4	68.0
101	10.1	7.8	11.8
130	22.6	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

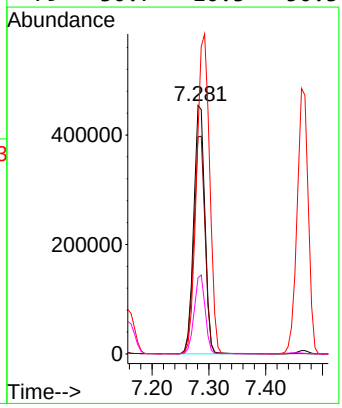
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

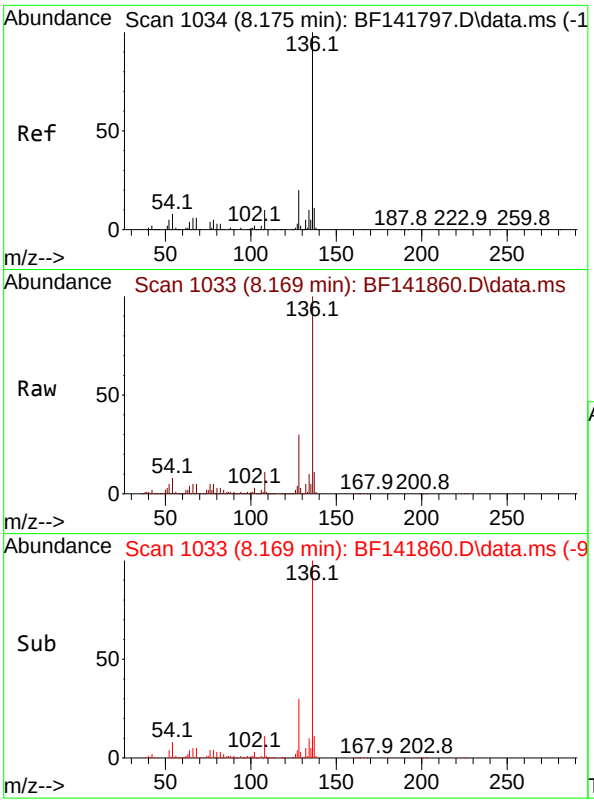


#20
3+4-Methylphenols
Concen: 40.079 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 621360

Ion	Ratio	Lower	Upper
107	100		
108	87.4	69.7	109.7
77	89.3	58.3	98.3
79	30.7	10.3	50.3

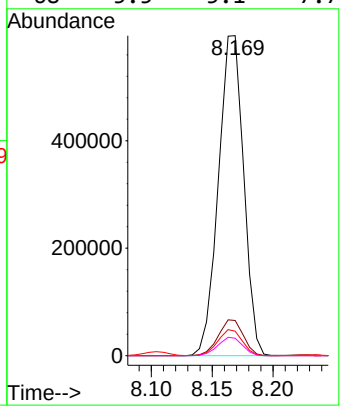




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:136 Resp: 86034

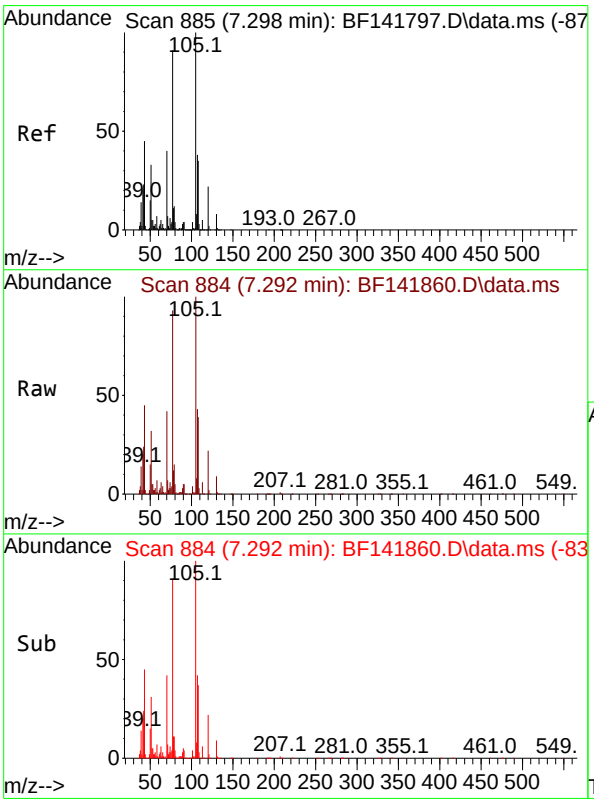
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.6	6.9	10.3
68	5.5	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

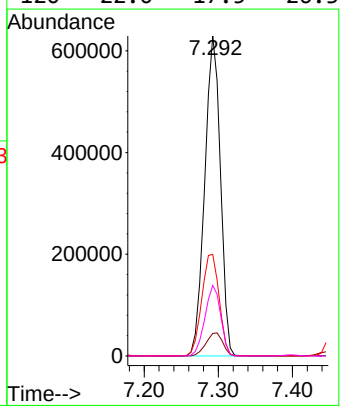
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

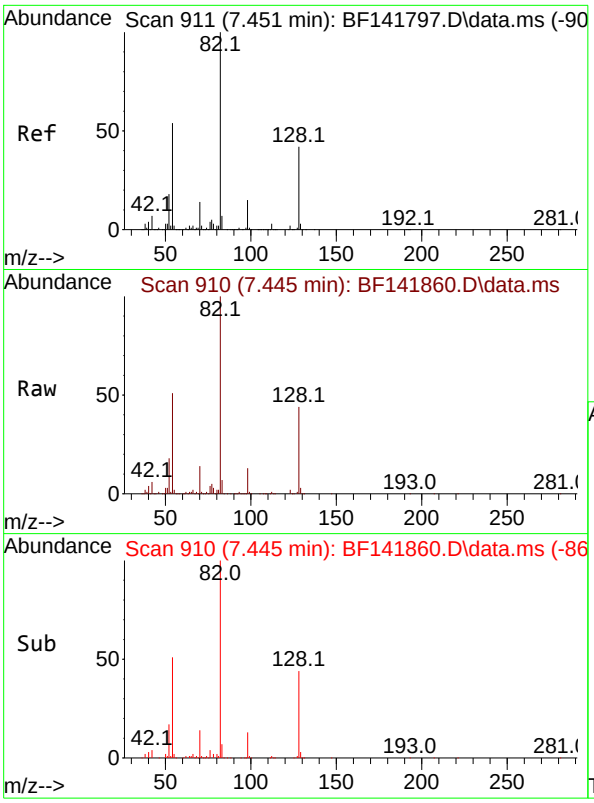


#22
Acetophenone
Concen: 44.138 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:105 Resp: 924853

Ion	Ratio	Lower	Upper
105	100		
71	7.0	5.4	8.0
51	31.7	26.1	39.1
120	22.0	17.5	26.3





#23
Nitrobenzene-d5
Concen: 104.625 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

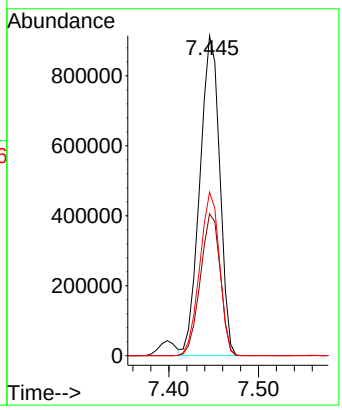
Tgt Ion: 82 Resp: 140823

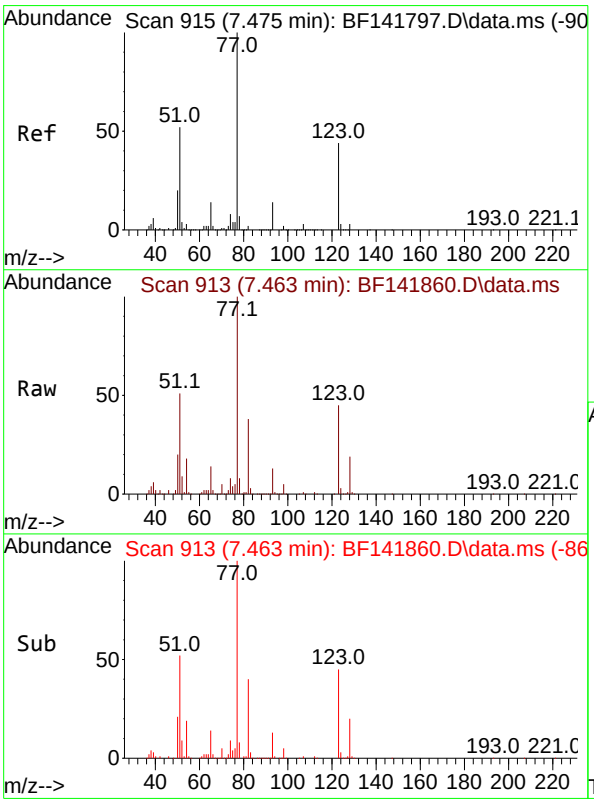
Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.5	50.3
54	51.1	42.7	64.1

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

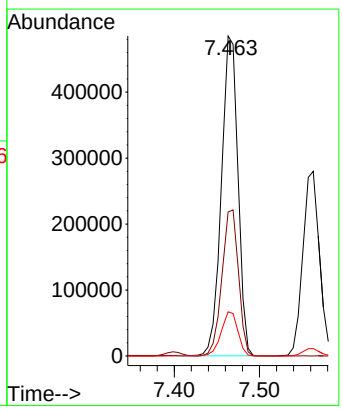


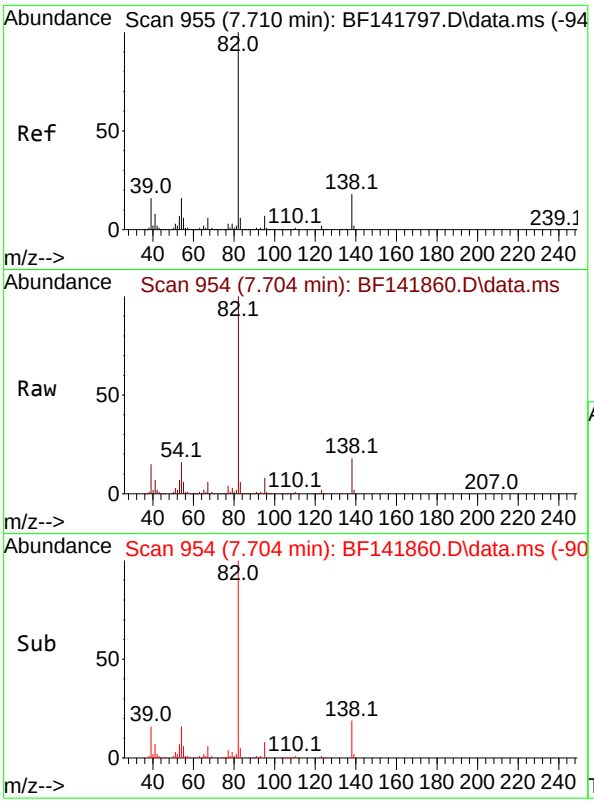


#24
Nitrobenzene
Concen: 45.544 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 656445

Ion	Ratio	Lower	Upper
77	100		
123	45.0	35.8	53.8
65	13.8	11.2	16.8

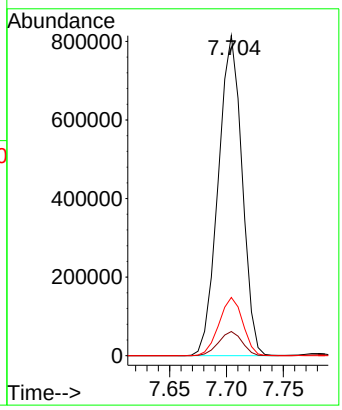




#25
Isophorone
Concen: 41.131 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 82 Resp: 118935

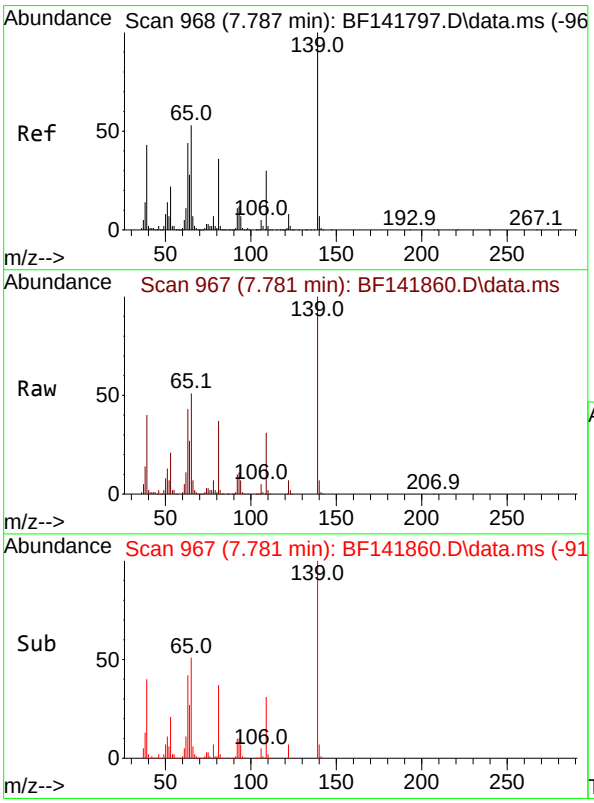
Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.8
138	18.2	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

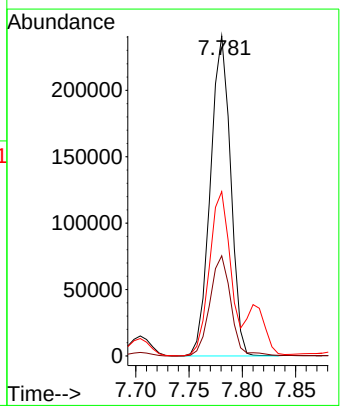
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

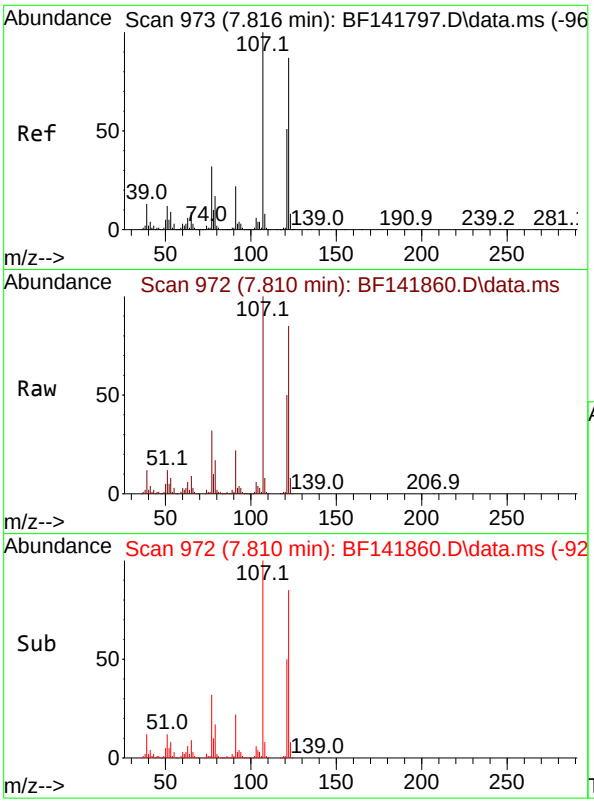


#26
2-Nitrophenol
Concen: 49.233 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:139 Resp: 317830

Ion	Ratio	Lower	Upper
139	100		
109	31.3	24.1	36.1
65	51.4	42.3	63.5

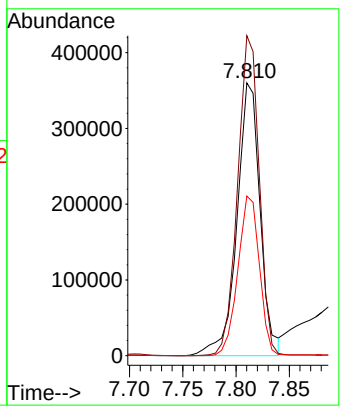




#27
2,4-Dimethylphenol
Concen: 51.293 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:122 Resp: 54521

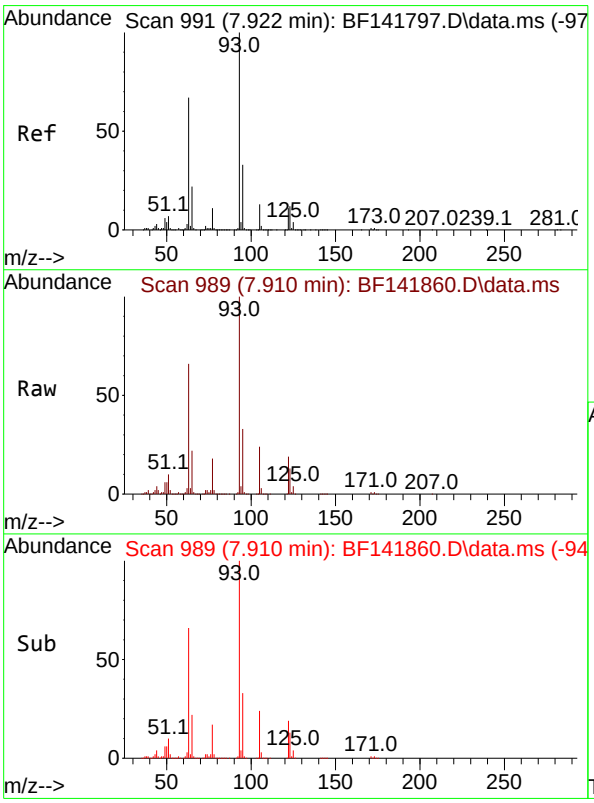
Ion	Ratio	Lower	Upper
122	100		
107	117.3	92.5	138.7
121	58.5	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

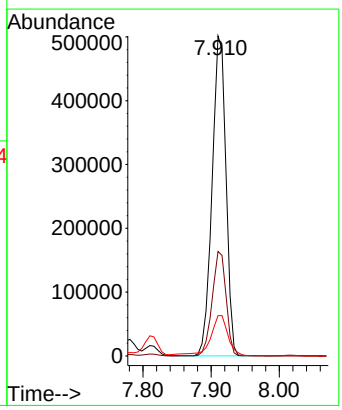
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

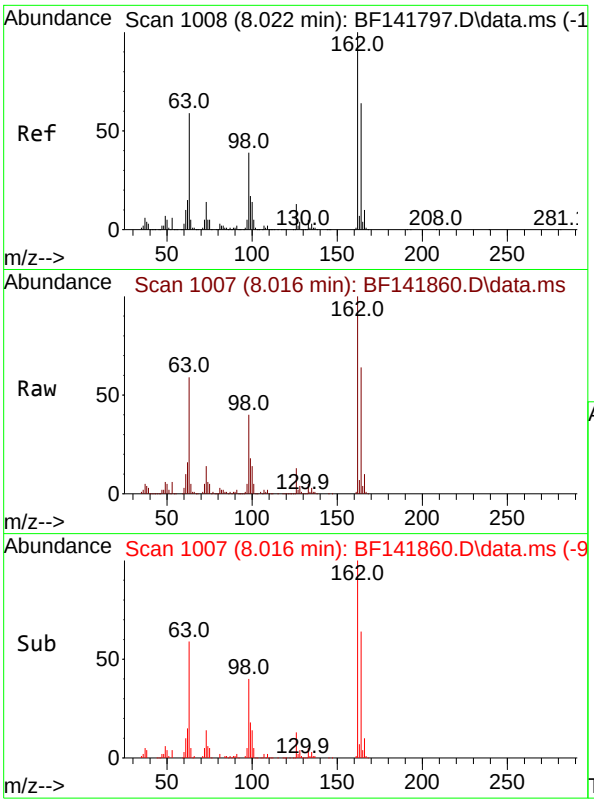


#28
bis(2-Chloroethoxy)methane
Concen: 38.479 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 93 Resp: 709782

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.5	39.7
123	12.6	10.0	15.0

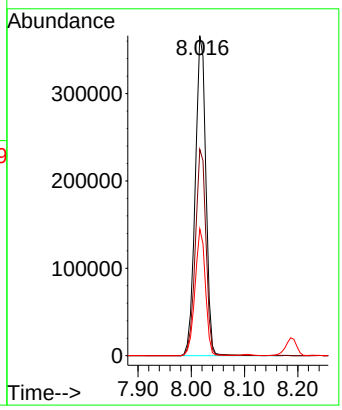




#29
2,4-Dichlorophenol
Concen: 41.536 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:162 Resp: 50933

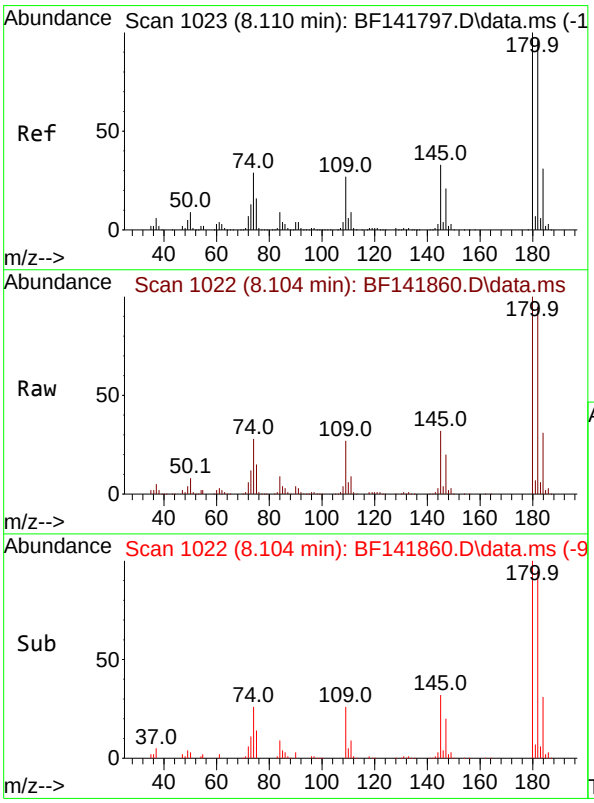
Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.3	84.3
98	39.6	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

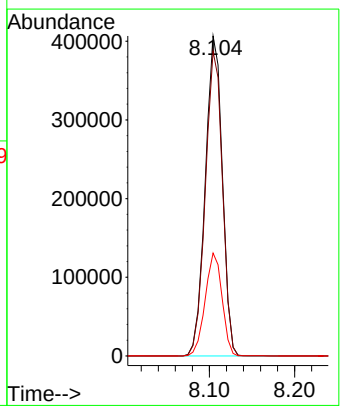
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

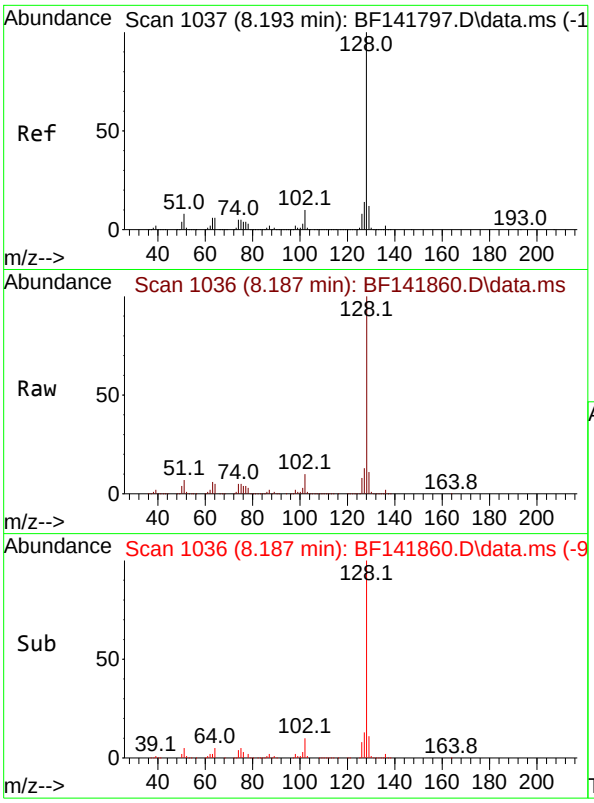


#30
1,2,4-Trichlorobenzene
Concen: 42.101 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:180 Resp: 565708

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.8	115.2
145	32.1	26.4	39.6

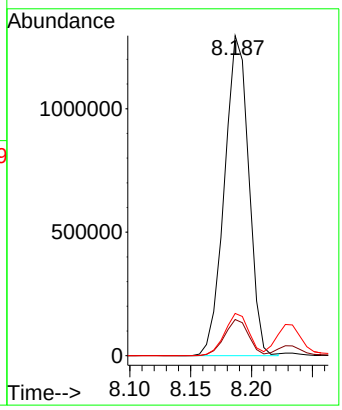




#31
Naphthalene
Concen: 40.665 ng
RT: 8.187 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:128 Resp: 179815(

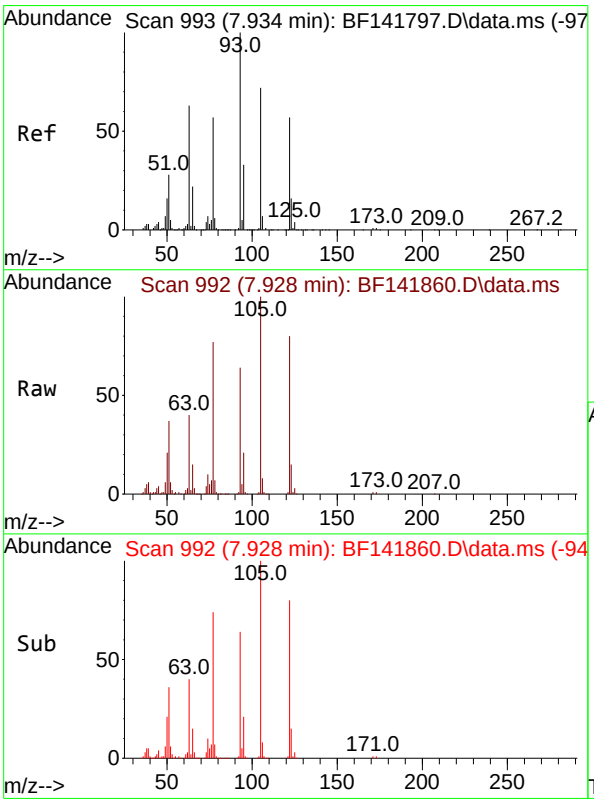
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

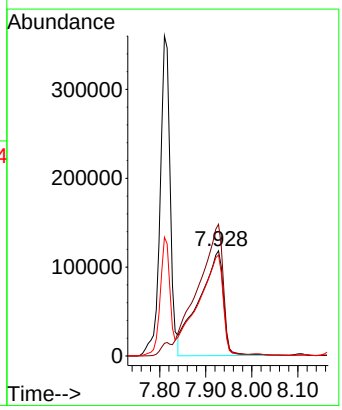
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

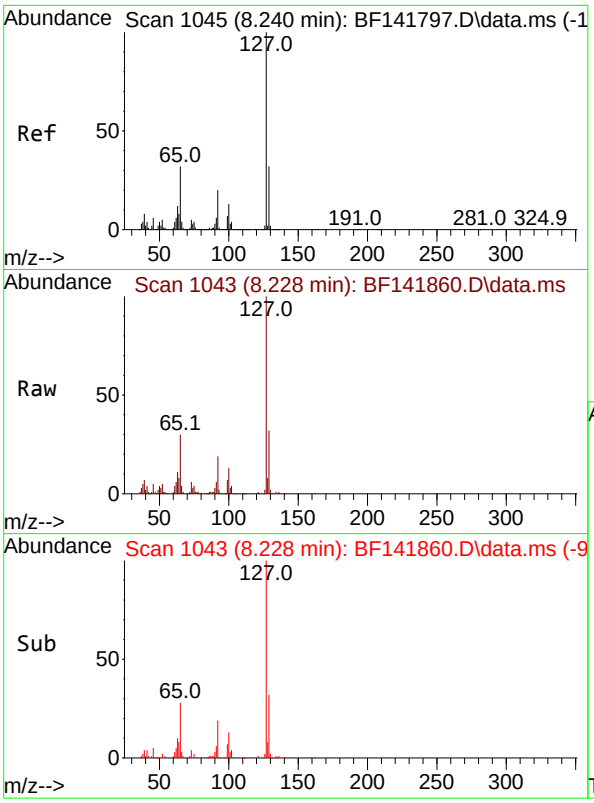


#32
Benzoic acid
Concen: 48.969 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:122 Resp: 436083

Ion	Ratio	Lower	Upper
122	100		
105	125.2	105.8	145.8
77	96.1	79.9	119.9

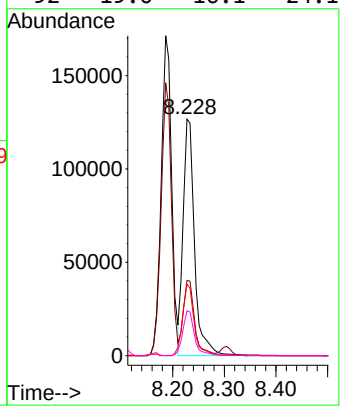




#33
4-Chloroaniline
Concen: 12.093 ng
RT: 8.228 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:127 Resp: 19607

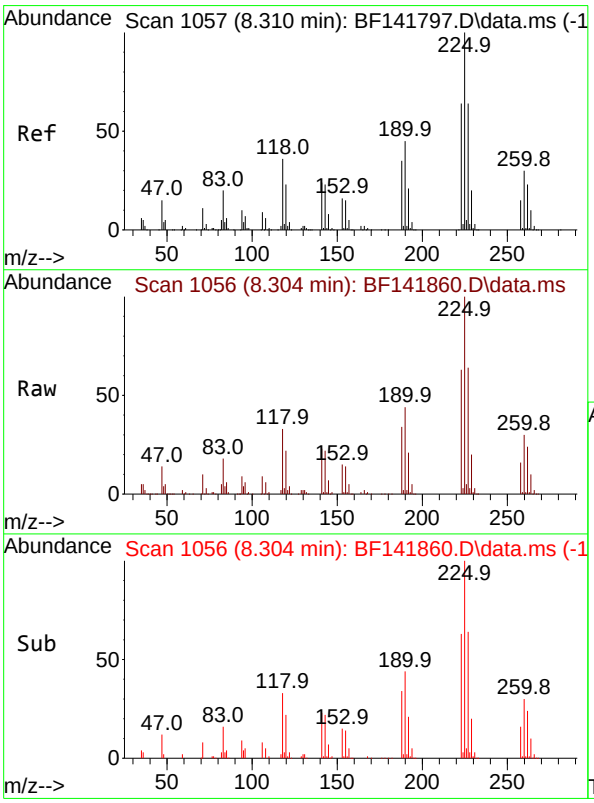
Ion	Ratio	Lower	Upper
127	100		
129	31.8	26.1	39.1
65	30.3	25.7	38.5
92	19.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

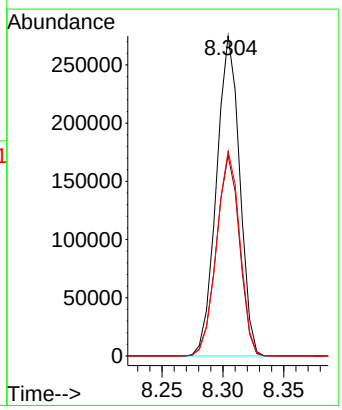
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

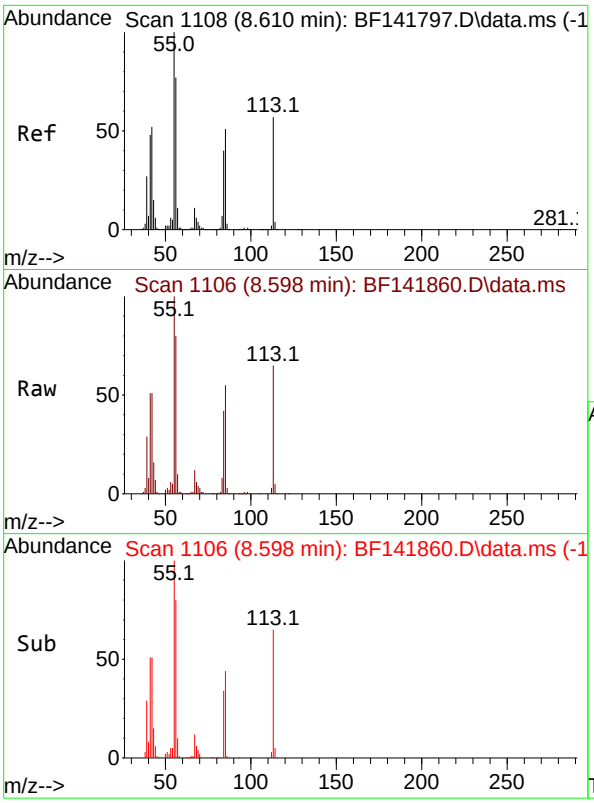


#34
Hexachlorobutadiene
Concen: 43.526 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:225 Resp: 363439

Ion	Ratio	Lower	Upper
225	100		
223	62.6	51.4	77.2
227	64.0	51.6	77.4

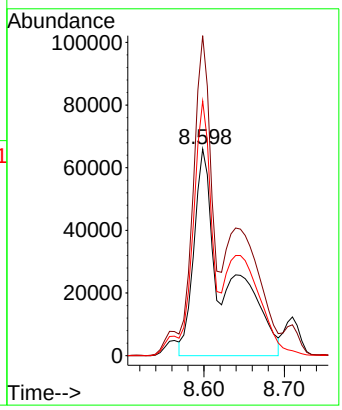




#35
Caprolactam
Concen: 48.041 ng m
RT: 8.598 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:113 Resp: 18122

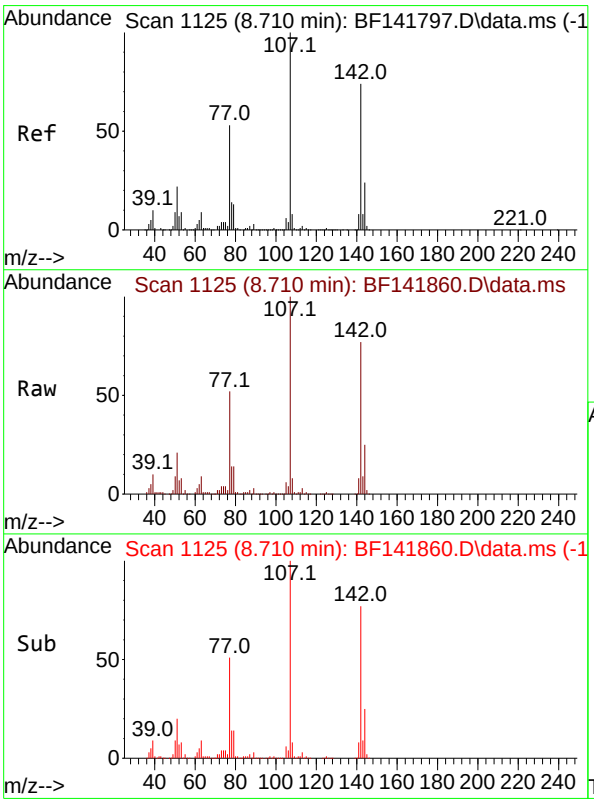
Ion	Ratio	Lower	Upper
113	100		
55	154.8	155.6	195.6
56	123.2	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

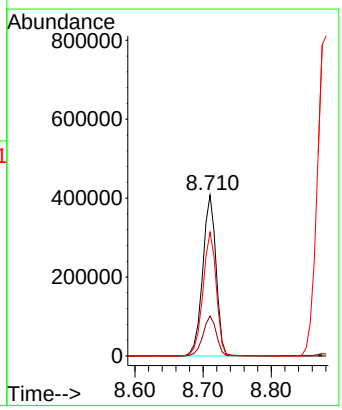
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

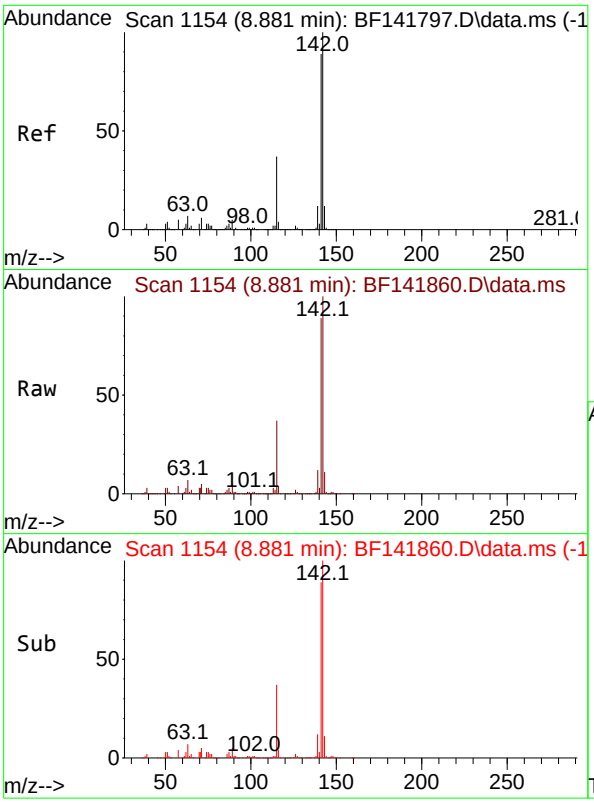


#36
4-Chloro-3-methylphenol
Concen: 40.762 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:107 Resp: 555267

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.4	29.0
142	76.9	59.4	89.0

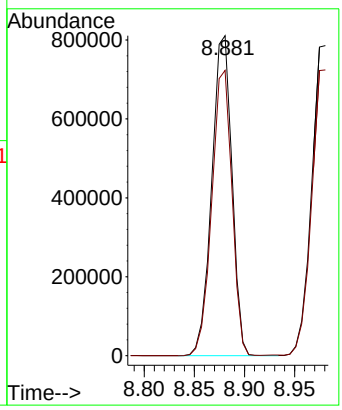




#37
2-Methylnaphthalene
Concen: 39.174 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:142 Resp: 113617

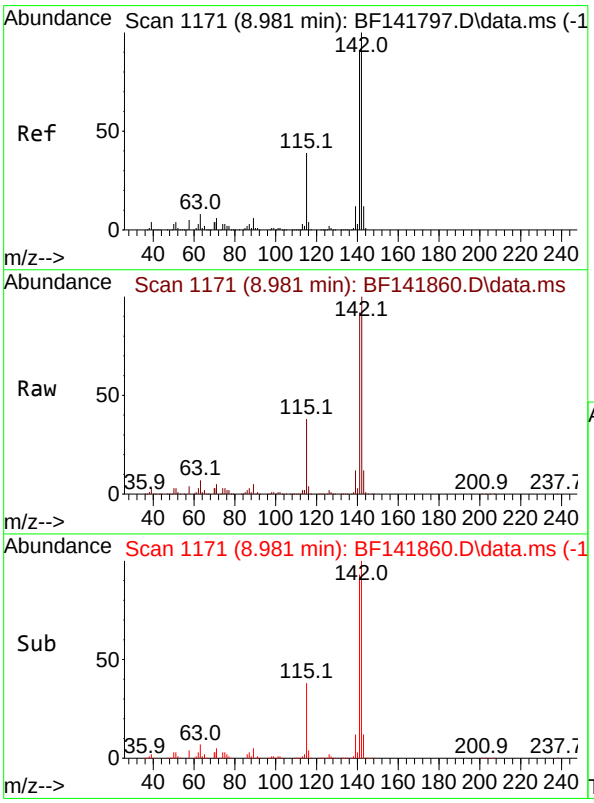
Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

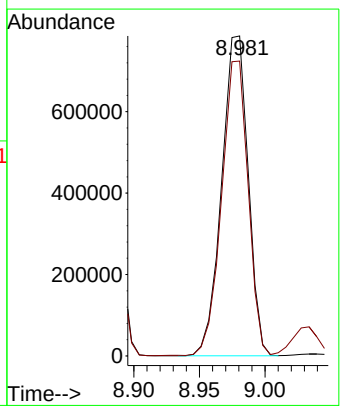
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

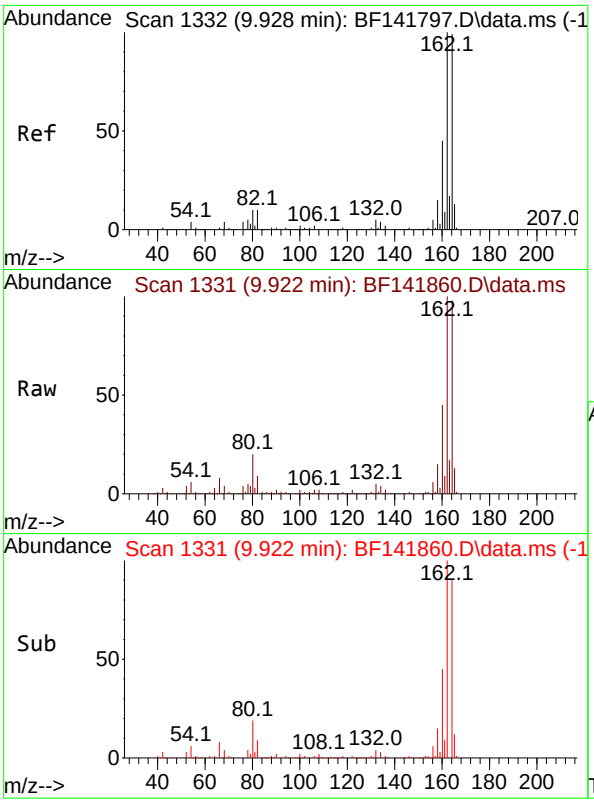


#38
1-Methylnaphthalene
Concen: 39.748 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:142 Resp: 1106172

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.1	109.7

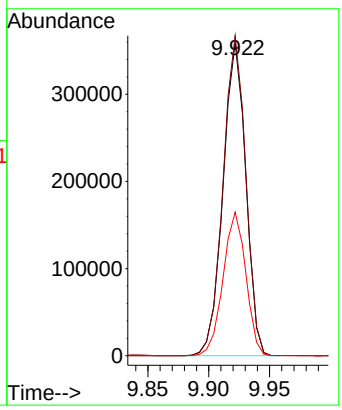




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:164 Resp: 46704

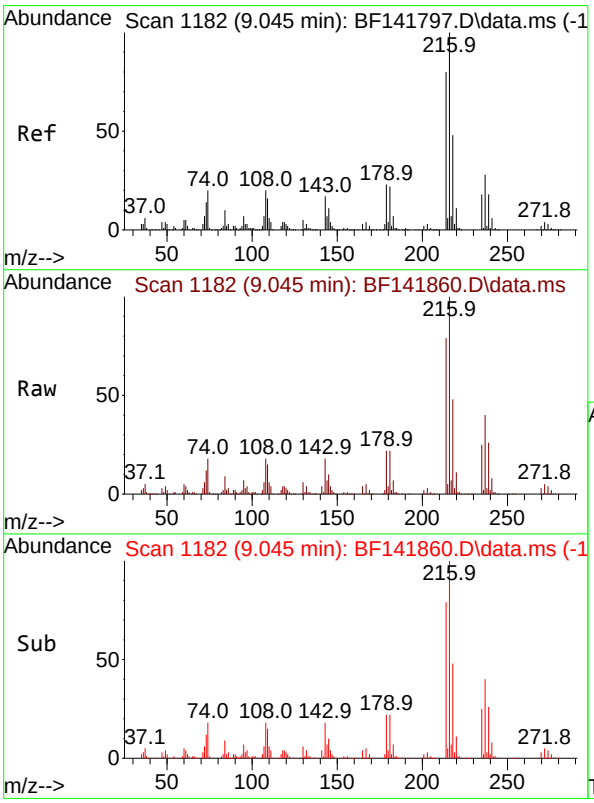
Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.6	120.8
160	45.9	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

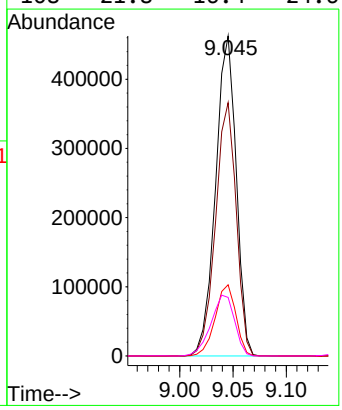
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

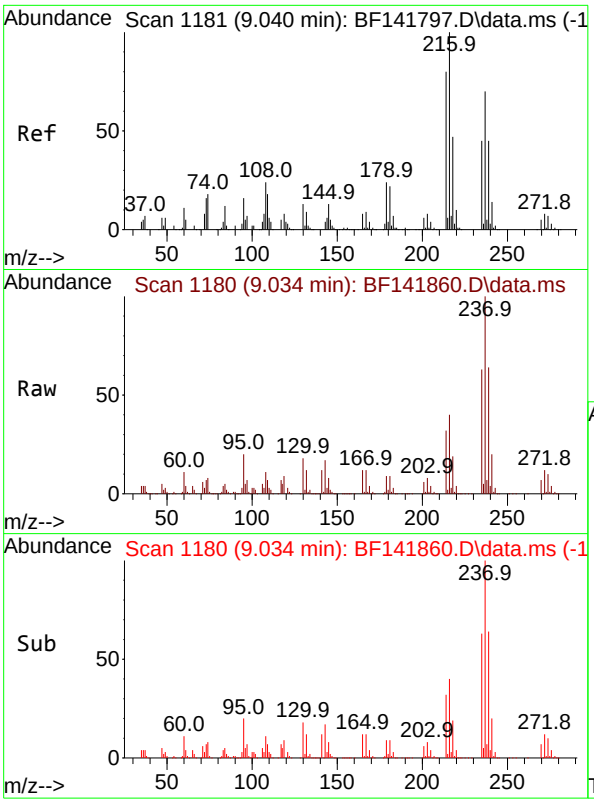


#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.050 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:216 Resp: 621149

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.5	95.3
179	22.4	18.1	27.1
108	21.8	16.4	24.6





#41
Hexachlorocyclopentadiene
Concen: 147.481 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

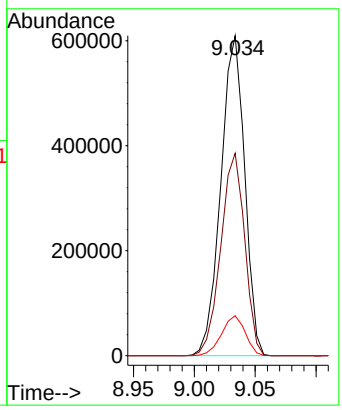
Instrument :
BNA_F
ClientSampleId :
PB166984BS

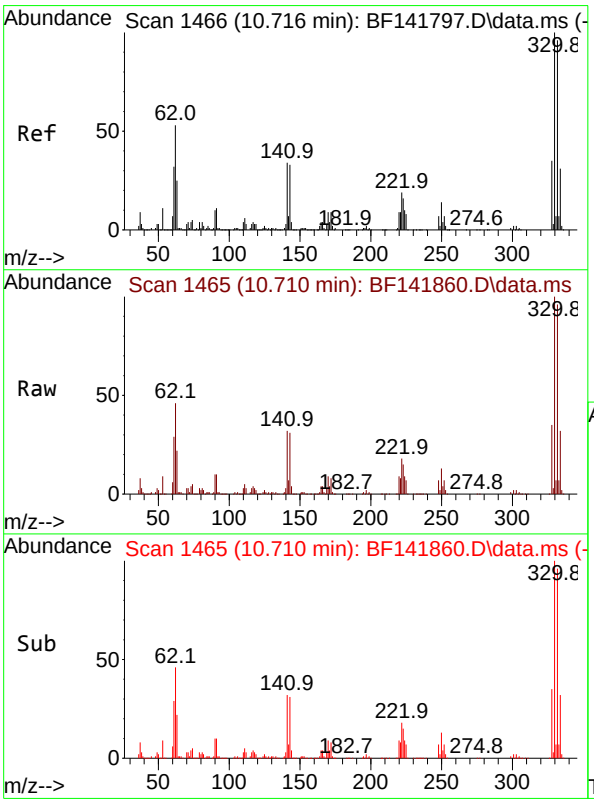
Tgt Ion:237 Resp: 83019

Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	12.5	0.0	31.9

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

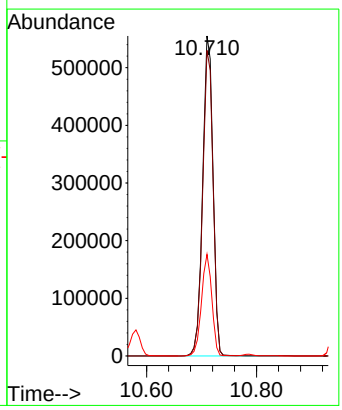


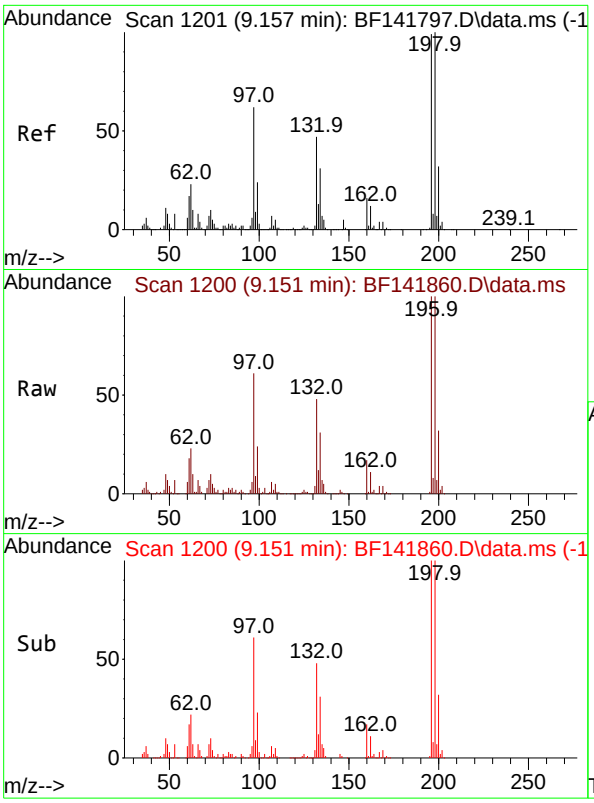


#42
2,4,6-Tribromophenol
Concen: 165.555 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:330 Resp: 725902

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.6	115.0
141	31.8	29.0	43.4





#43
2,4,6-Trichlorophenol
Concen: 43.792 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

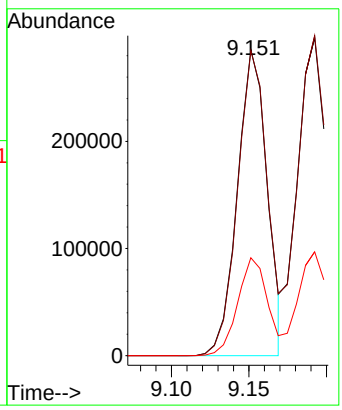
Tgt Ion:196 Resp: 38156

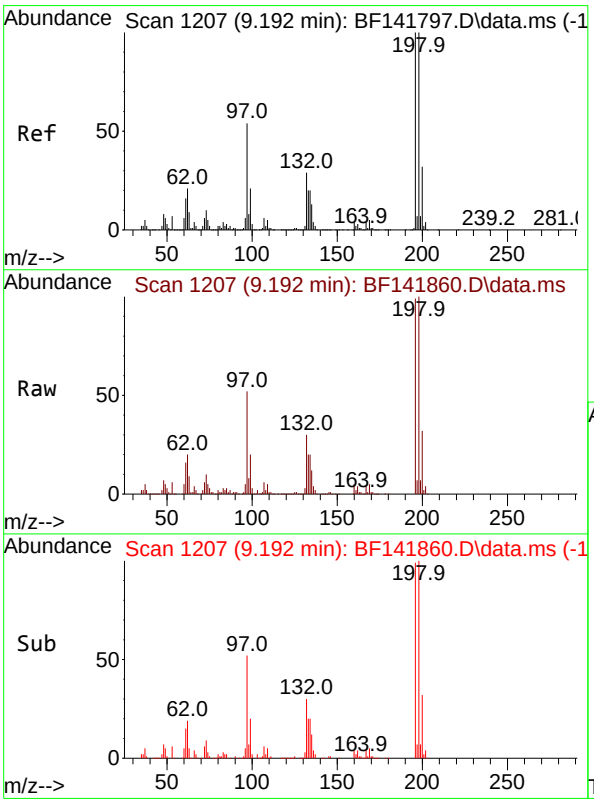
Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.4	120.6
200	32.0	25.7	38.5

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

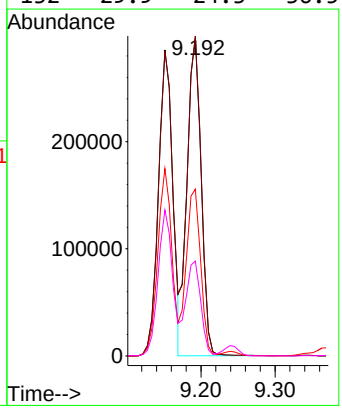


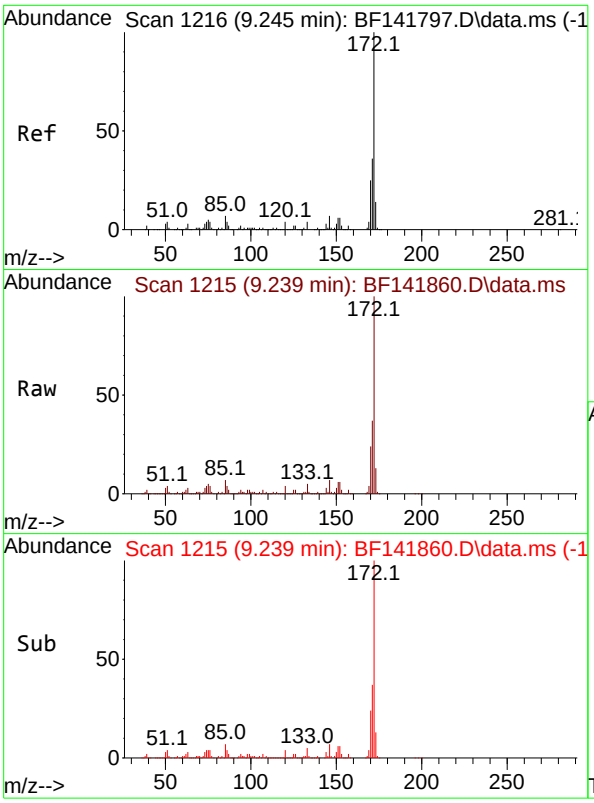


#44
2,4,5-Trichlorophenol
Concen: 45.604 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:196 Resp: 393469

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.7	119.5
97	52.5	44.2	66.2
132	29.9	24.3	36.5

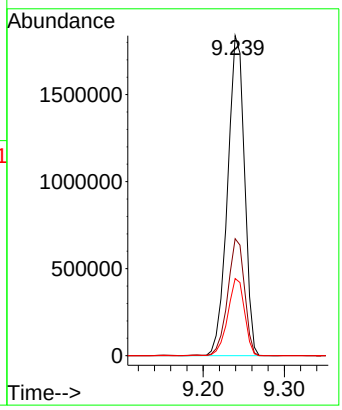




#45
2-Fluorobiphenyl
Concen: 91.306 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:172 Resp: 265950

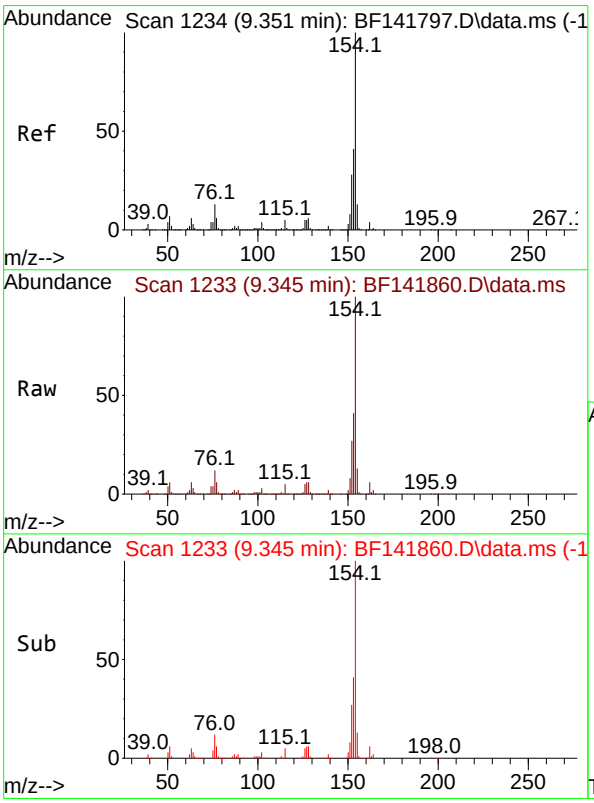
Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.2	43.8
170	24.1	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

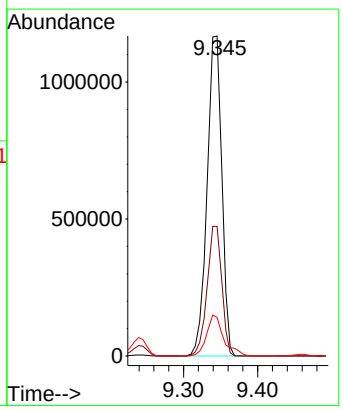
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

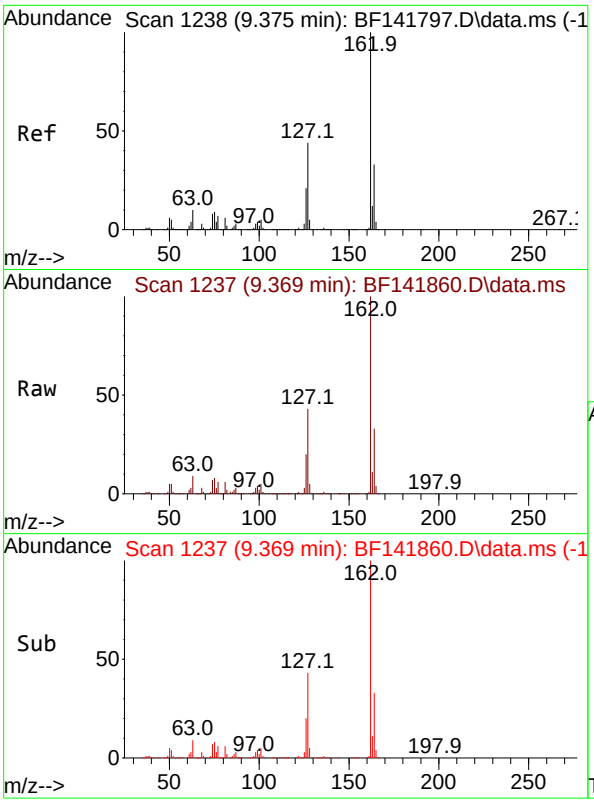


#46
1,1'-Biphenyl
Concen: 45.323 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:154 Resp: 1611215

Ion	Ratio	Lower	Upper
154	100		
153	40.5	21.4	61.4
76	12.0	0.0	33.4

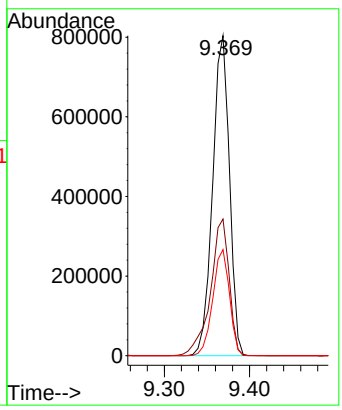




#47
2-Chloronaphthalene
Concen: 41.882 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:162 Resp: 109888

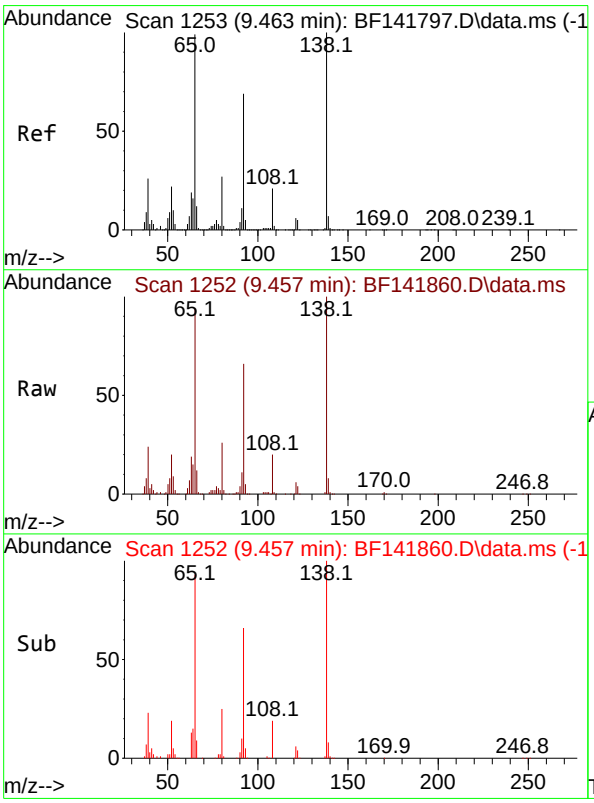
Ion	Ratio	Lower	Upper
162	100		
127	42.7	35.0	52.6
164	33.1	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

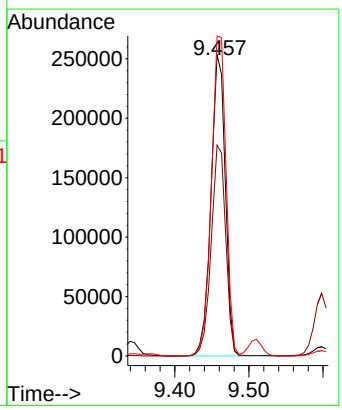
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

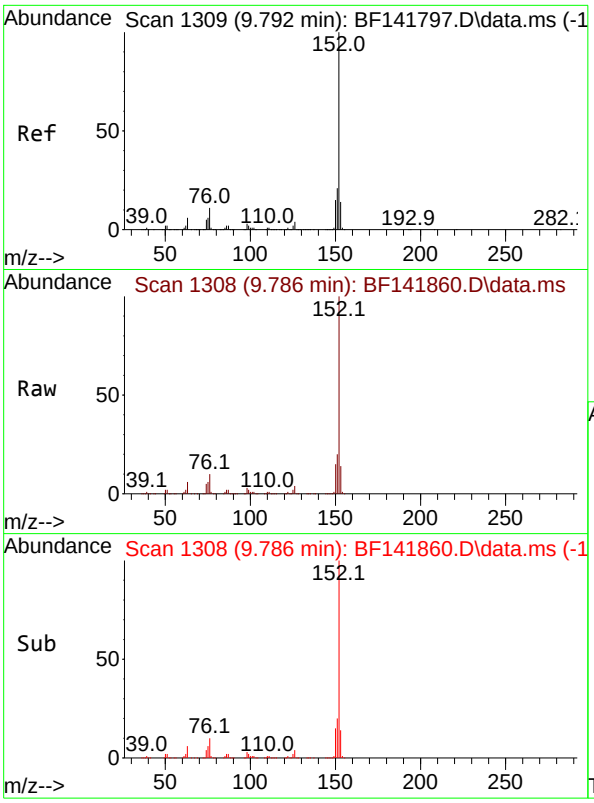


#48
2-Nitroaniline
Concen: 47.626 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 65 Resp: 341789

Ion	Ratio	Lower	Upper
65	100		
92	70.0	55.7	83.5
138	106.3	80.6	121.0

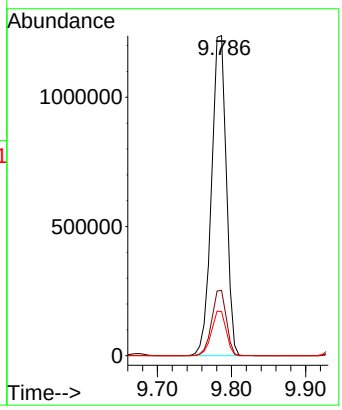




#49
Acenaphthylene
Concen: 43.557 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:152 Resp: 171347

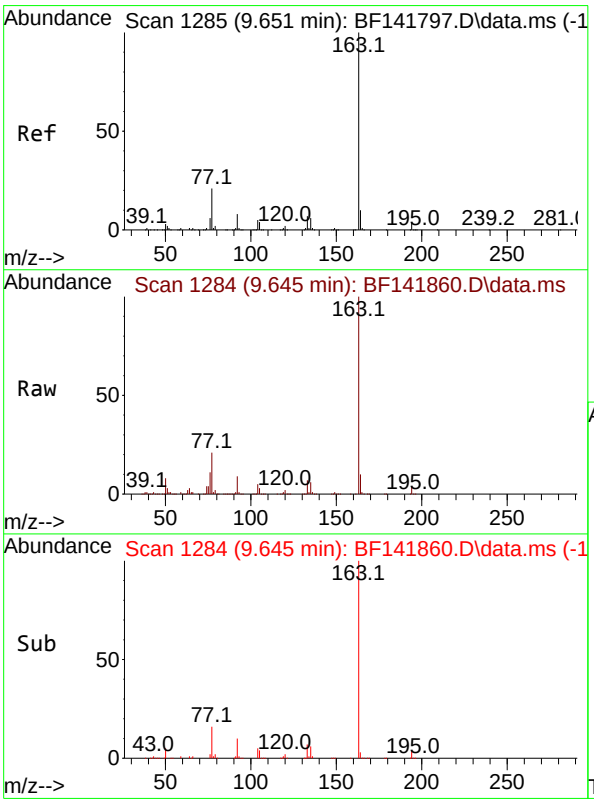
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	24.8
153	13.8	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

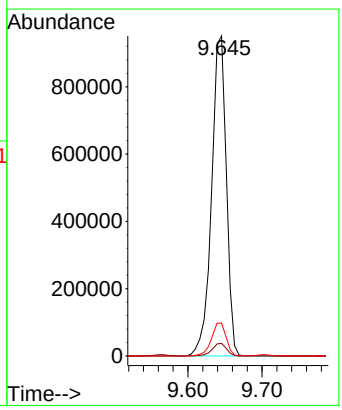
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

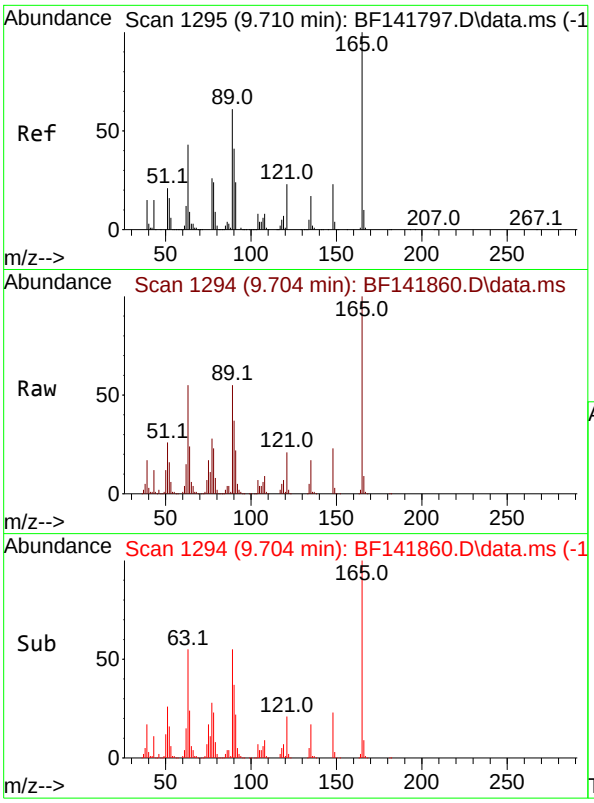


#50
Dimethylphthalate
Concen: 42.006 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:163 Resp: 1313815

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.2	8.4	12.6

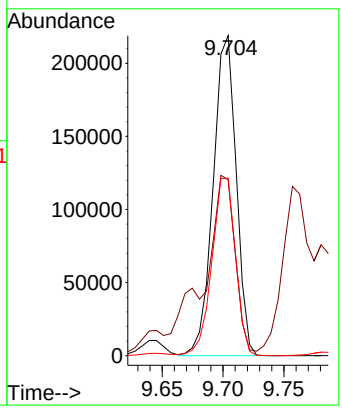




#51
2,6-Dinitrotoluene
Concen: 48.247 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:165 Resp: 28876

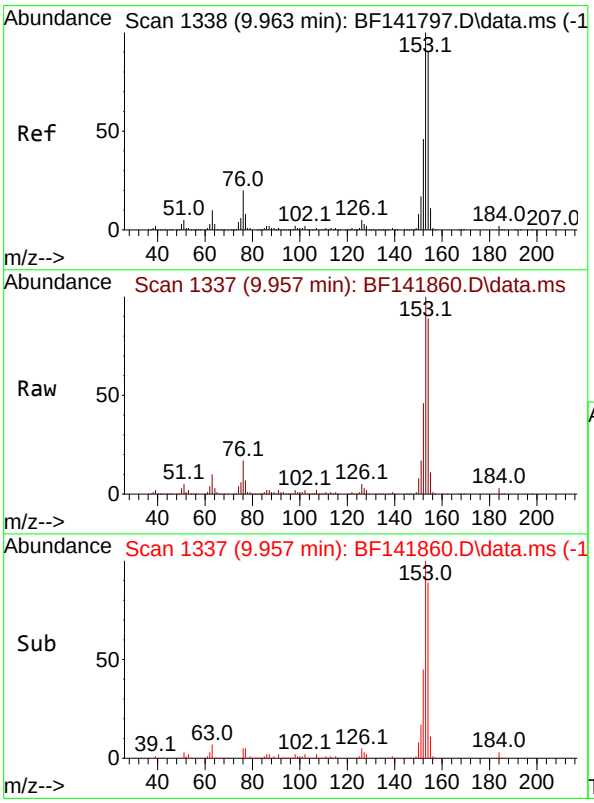
Ion	Ratio	Lower	Upper
165	100		
63	55.0	49.5	74.3
89	55.5	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

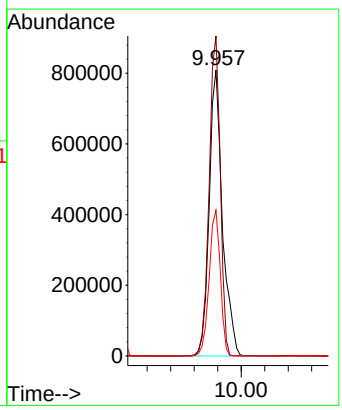
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

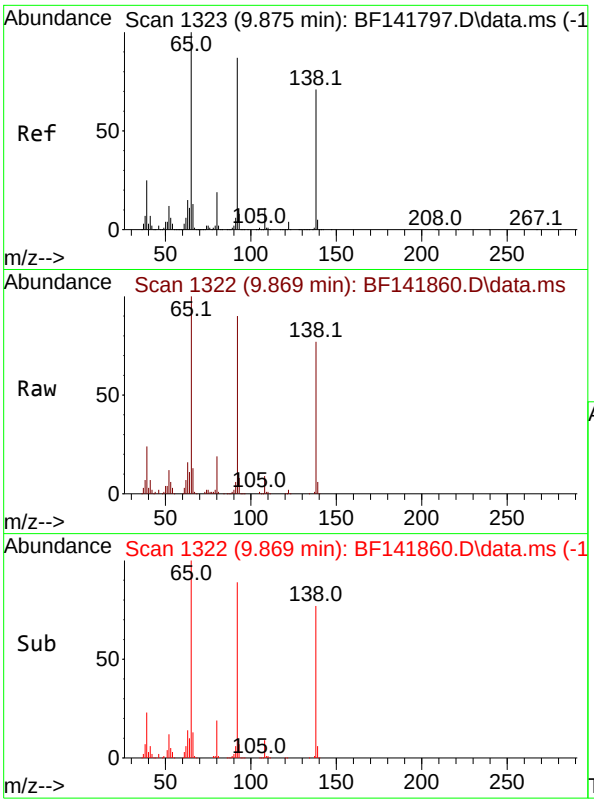


#52
Acenaphthene
Concen: 47.702 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:154 Resp: 1266215

Ion	Ratio	Lower	Upper
154	100		
153	111.9	88.7	133.1
152	51.0	40.9	61.3





#53
3-Nitroaniline
Concen: 25.520 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

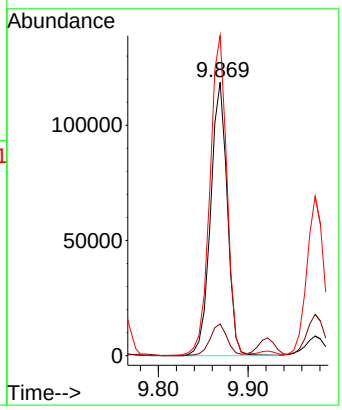
Tgt Ion:138 Resp: 15320

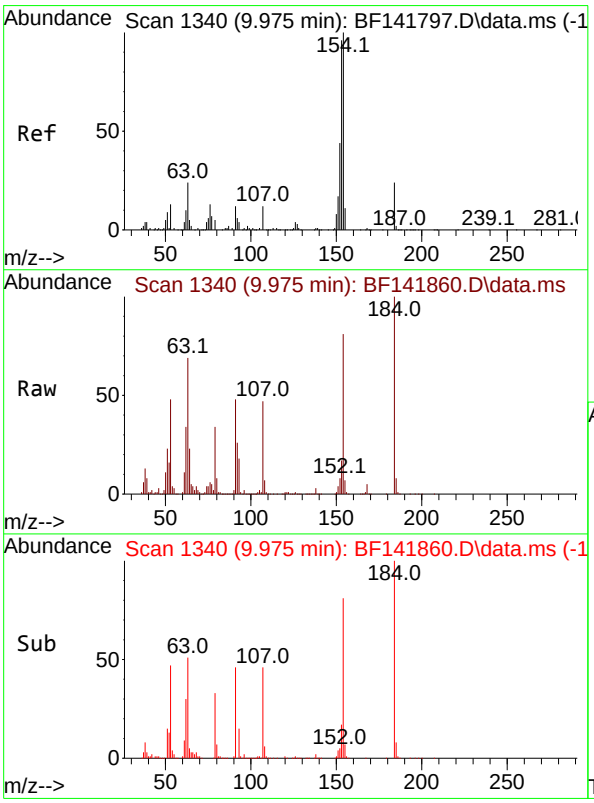
Ion	Ratio	Lower	Upper
138	100		
108	11.6	12.7	19.1#
92	117.0	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

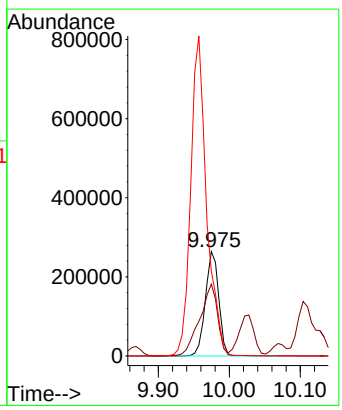


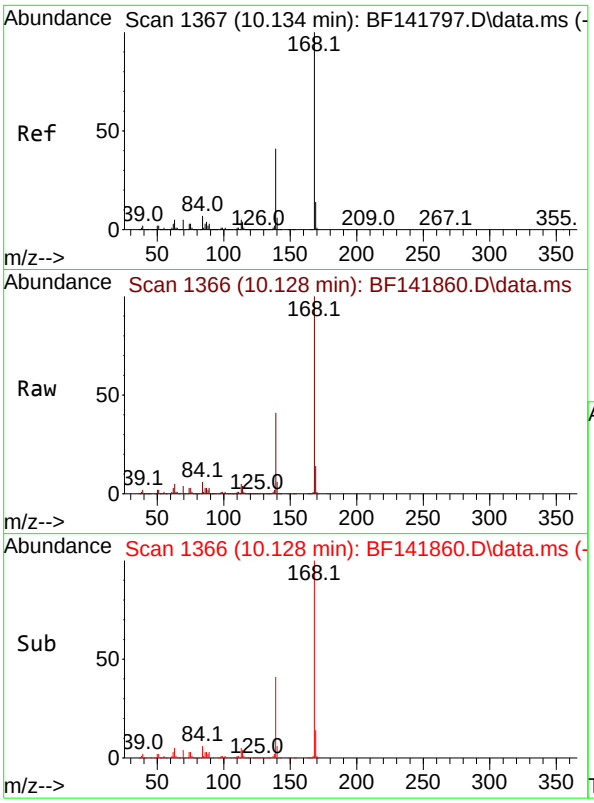


#54
2,4-Dinitrophenol
Concen: 111.084 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:184 Resp: 346122

Ion	Ratio	Lower	Upper
184	100		
63	68.9	79.0	118.6#
154	81.2	335.8	503.8#





#55
Dibenzofuran
Concen: 39.970 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

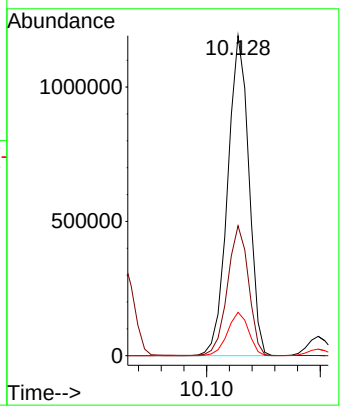
Instrument :
BNA_F
ClientSampleId :
PB166984BS

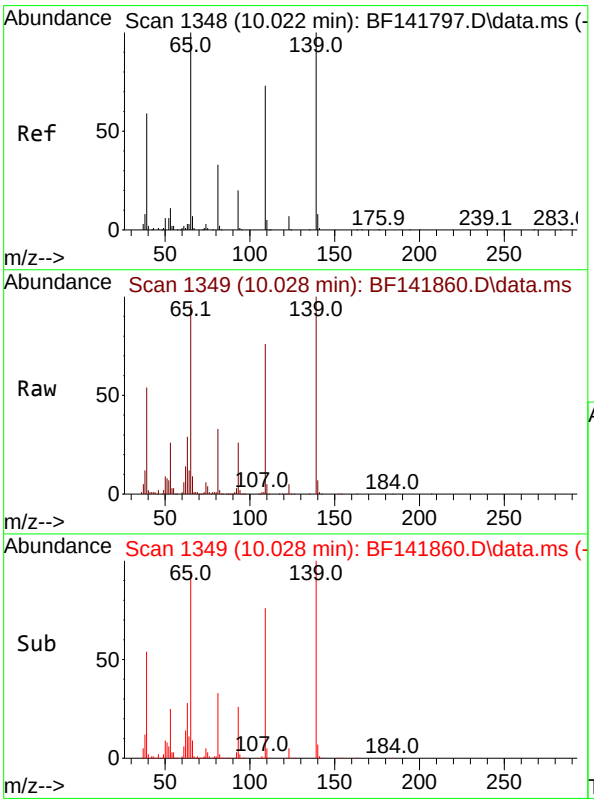
Tgt Ion:168 Resp: 154424

Ion	Ratio	Lower	Upper
168	100		
139	40.6	32.9	49.3
169	13.5	11.1	16.7

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

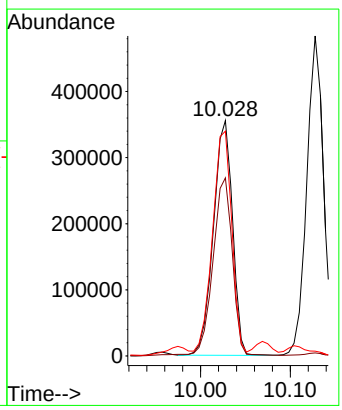


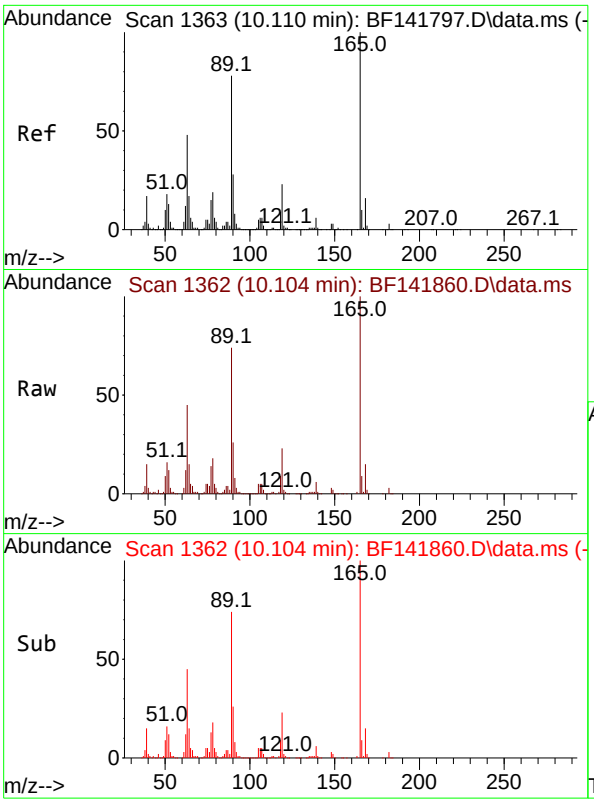


#56
4-Nitrophenol
Concen: 113.842 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:139 Resp: 525883

Ion	Ratio	Lower	Upper
139	100		
109	75.6	53.4	93.4
65	95.5	82.1	122.1

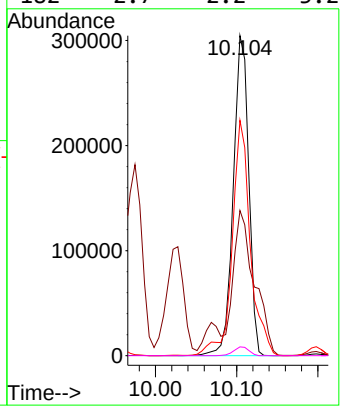




#57
2,4-Dinitrotoluene
Concen: 54.446 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:165 Resp: 40163

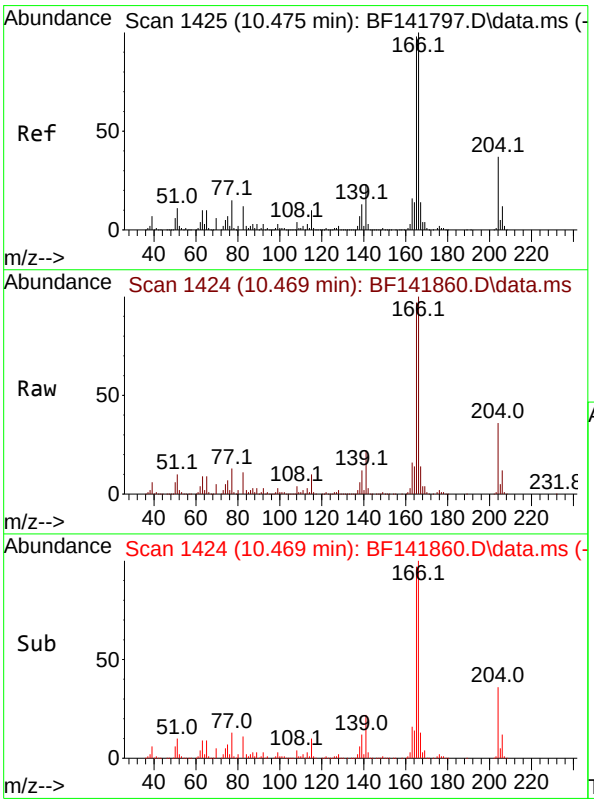
Ion	Ratio	Lower	Upper
165	100		
63	45.3	38.8	58.2
89	73.6	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

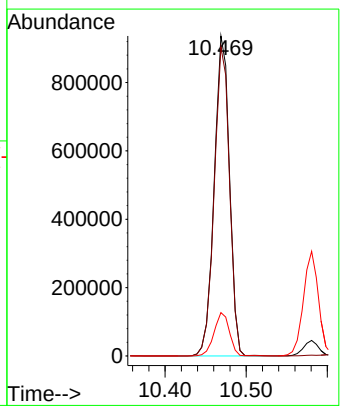
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

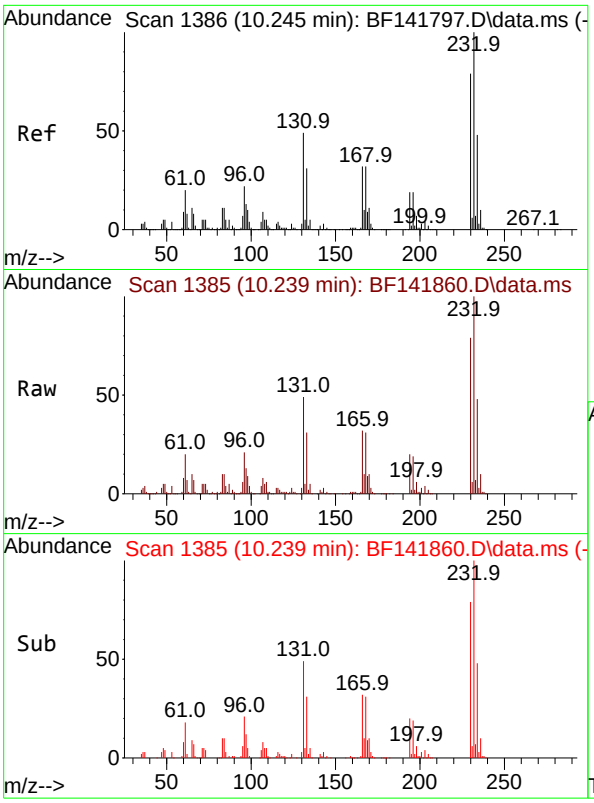


#58
Fluorene
Concen: 42.376 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:166 Resp: 1226351

Ion	Ratio	Lower	Upper
166	100		
165	96.5	78.6	117.8
167	13.5	11.0	16.4

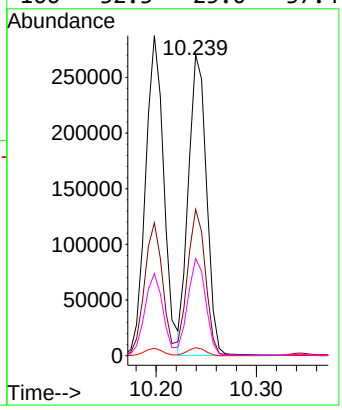




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.070 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:232 Resp: 33819

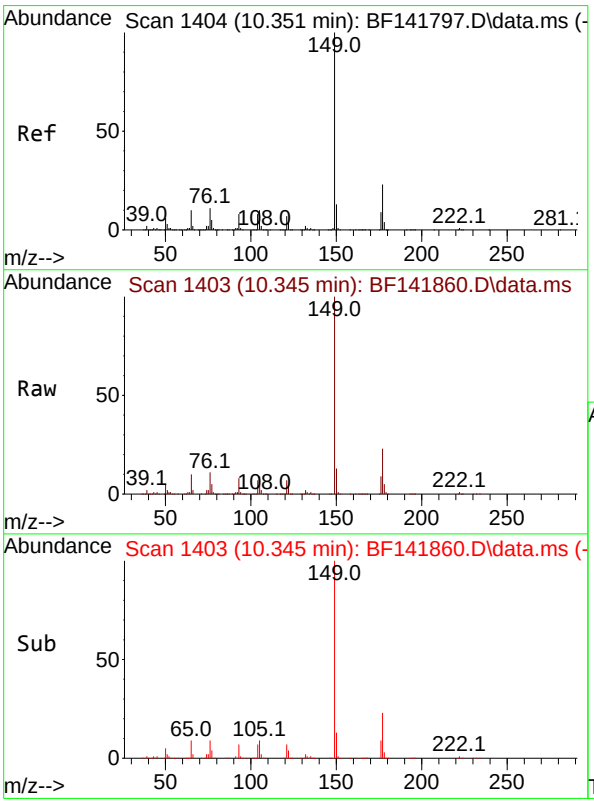
Ion	Ratio	Lower	Upper
232	100		
131	48.4	37.8	56.8
130	2.6	2.0	3.0
166	32.3	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

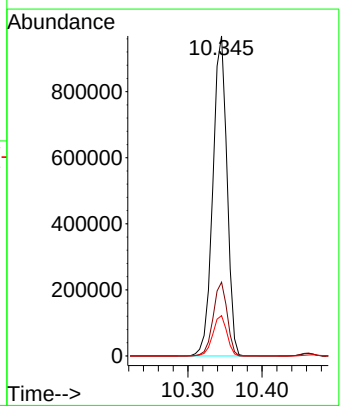
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

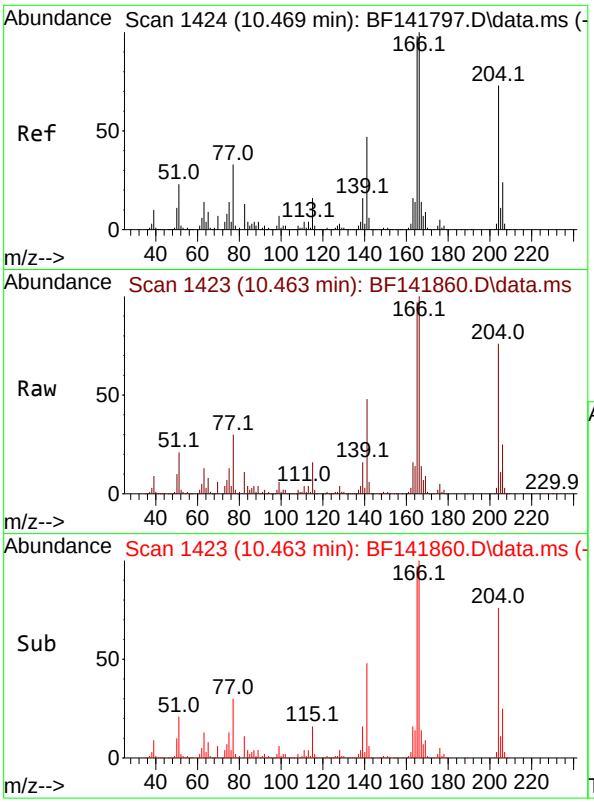


#60
Diethylphthalate
Concen: 40.869 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 1281425

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.3	27.5
150	12.6	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 42.256 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

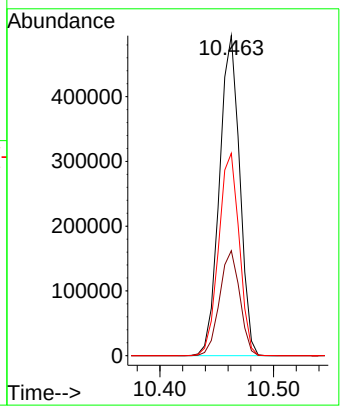
Instrument :
BNA_F
ClientSampleId :
PB166984BS

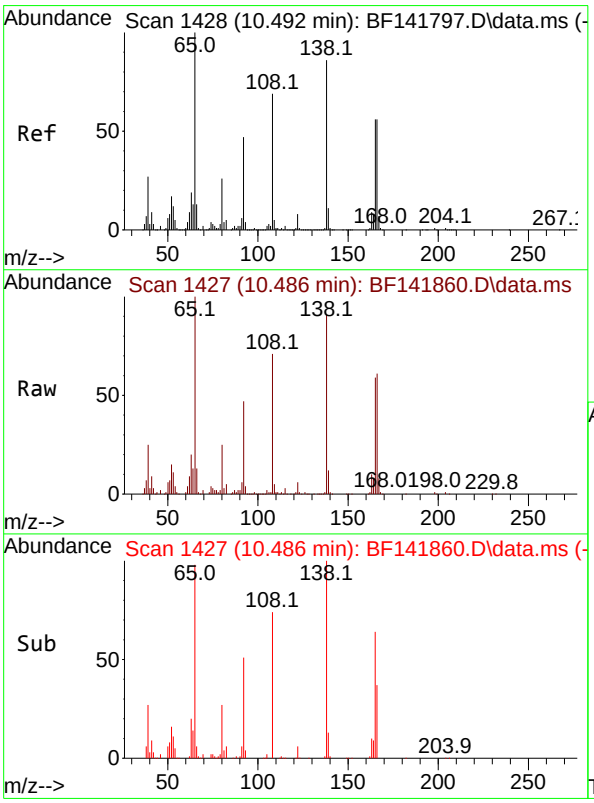
Tgt Ion:204 Resp: 61270

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.4
141	63.3	51.7	77.5

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

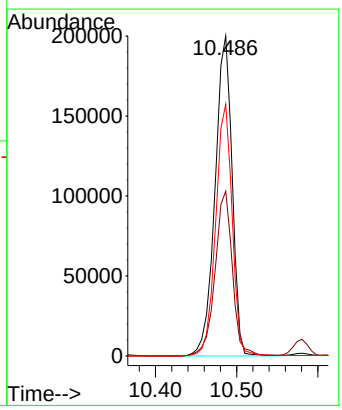


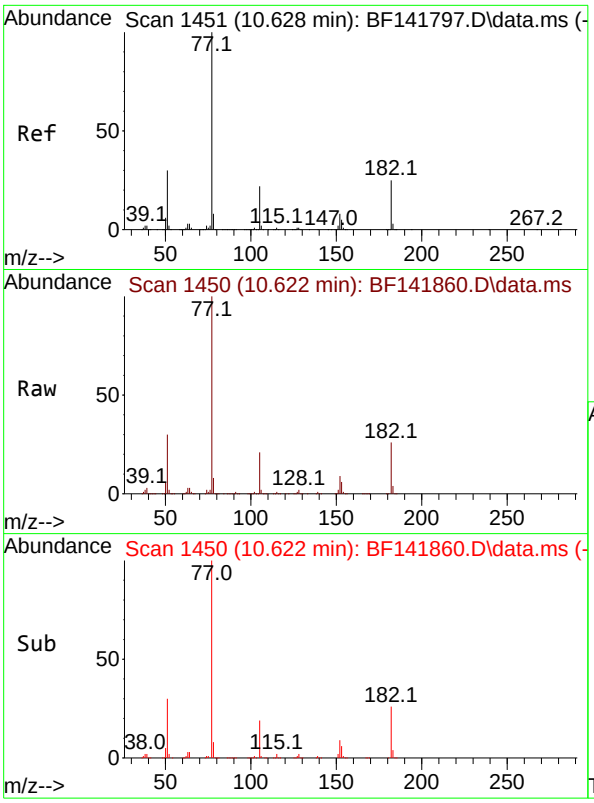


#62
4-Nitroaniline
Concen: 54.897 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:138 Resp: 293220

Ion	Ratio	Lower	Upper
138	100		
92	51.5	34.9	74.9
108	78.7	59.6	99.6

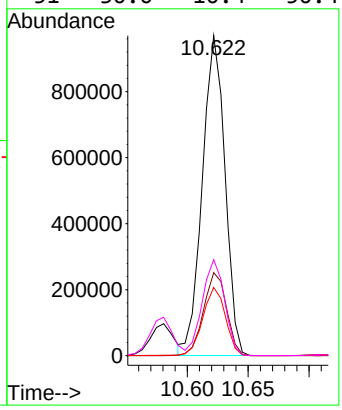




#63
Azobenzene
Concen: 37.955 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion: 77 Resp: 125304

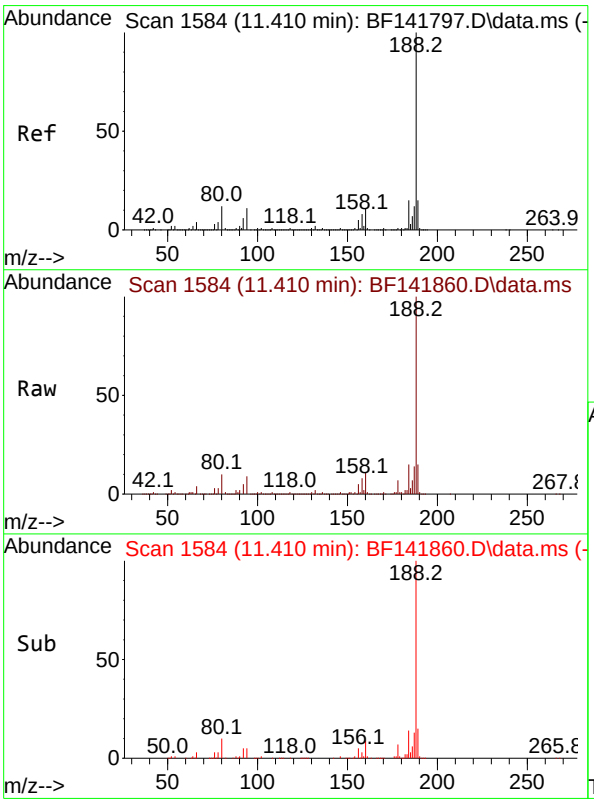
Ion	Ratio	Lower	Upper
77	100		
182	25.9	4.2	44.2
105	21.3	1.5	41.5
51	30.0	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

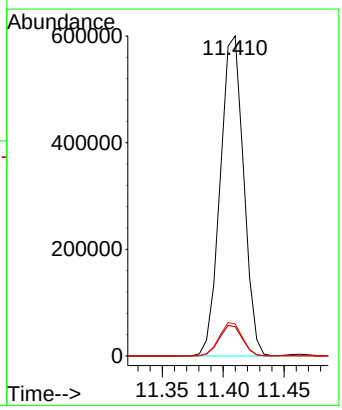
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

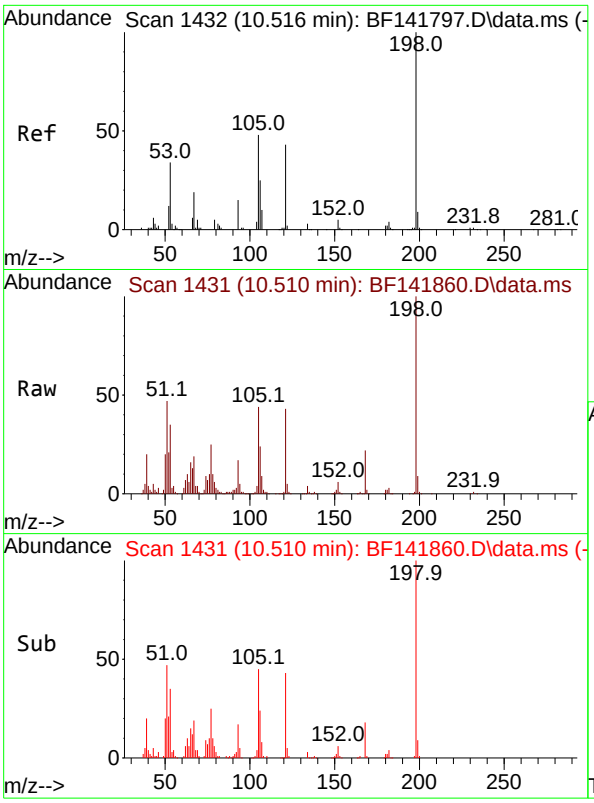


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:188 Resp: 801941

Ion	Ratio	Lower	Upper
188	100		
94	9.1	8.9	13.3
80	10.0	9.7	14.5





#65
4,6-Dinitro-2-methylphenol
Concen: 56.697 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

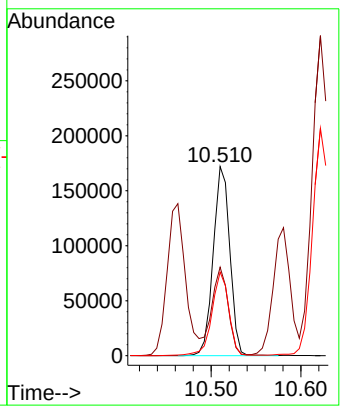
Tgt Ion:198 Resp: 22080

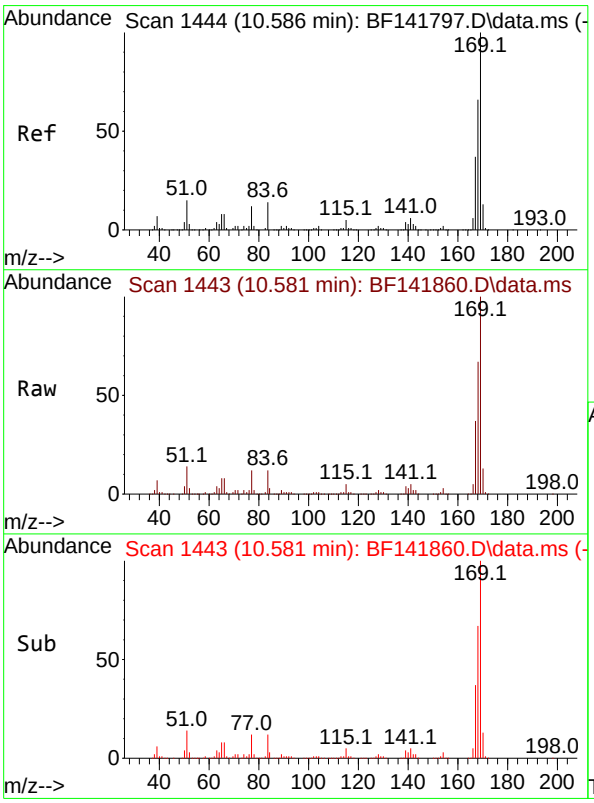
Ion	Ratio	Lower	Upper
198	100		
51	46.8	32.1	72.1
105	44.2	28.5	68.5

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

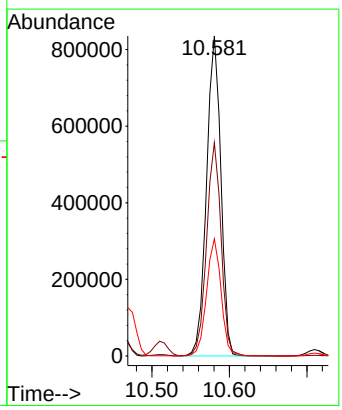


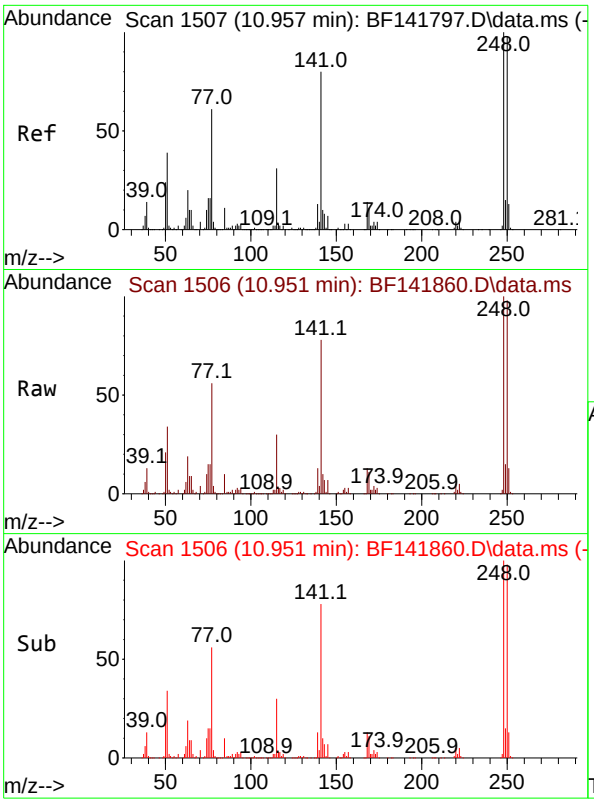


#66
n-Nitrosodiphenylamine
Concen: 40.709 ng
RT: 10.581 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:169 Resp: 1071992

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.0	79.6
167	36.6	29.3	43.9

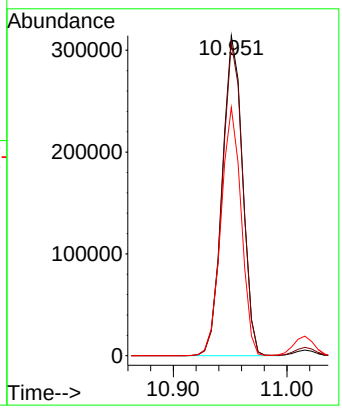




#67
4-Bromophenyl-phenylether
Concen: 41.818 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:248 Resp: 39171

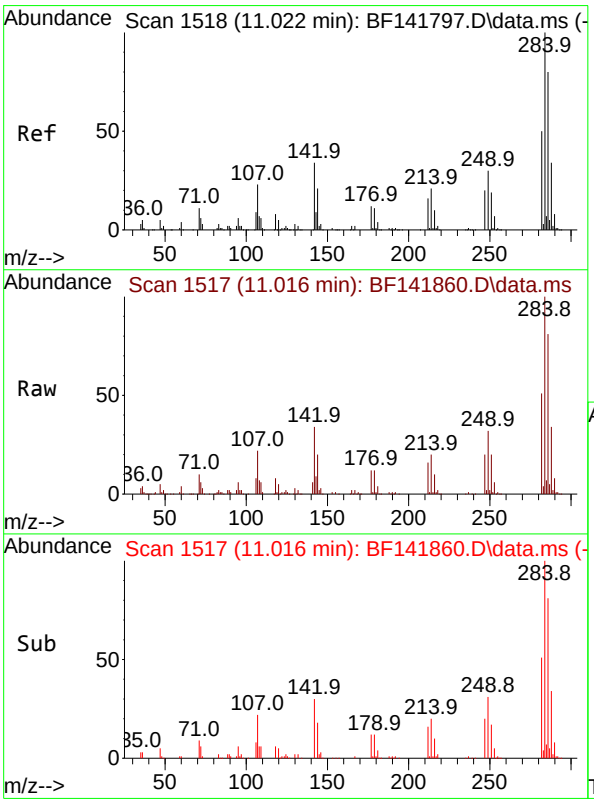
Ion	Ratio	Lower	Upper
248	100		
250	97.8	78.1	117.1
141	77.6	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

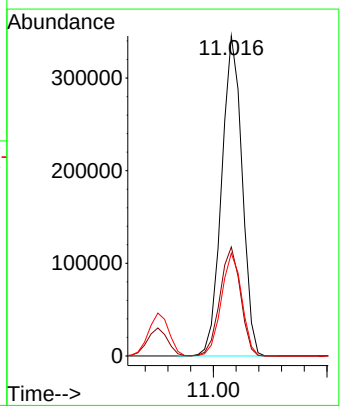
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

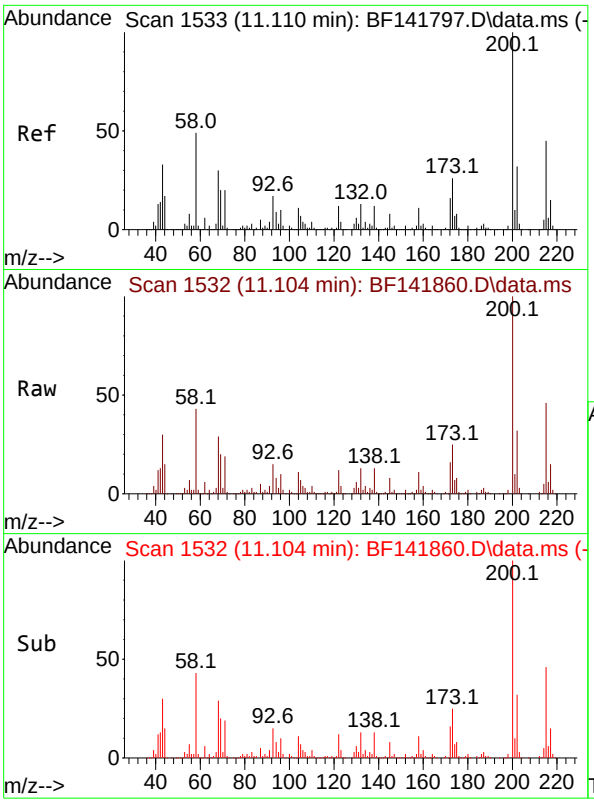


#68
Hexachlorobenzene
Concen: 43.759 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:284 Resp: 432837

Ion	Ratio	Lower	Upper
284	100		
142	34.0	28.2	42.2
249	32.1	25.5	38.3





#69
Atrazine
Concen: 59.829 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

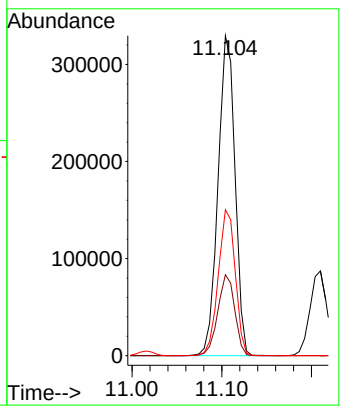
Tgt Ion:200 Resp: 43324

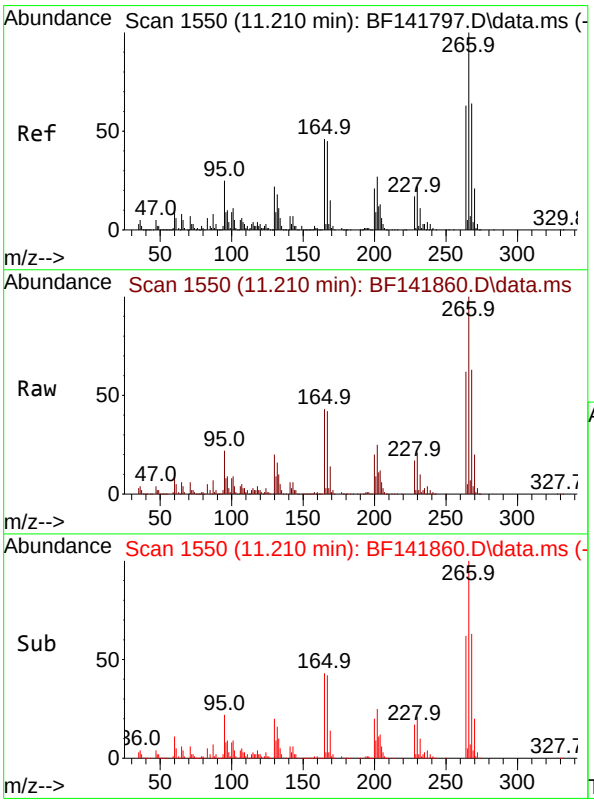
Ion	Ratio	Lower	Upper
200	100		
173	25.3	5.6	45.6
215	45.6	25.3	65.3

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

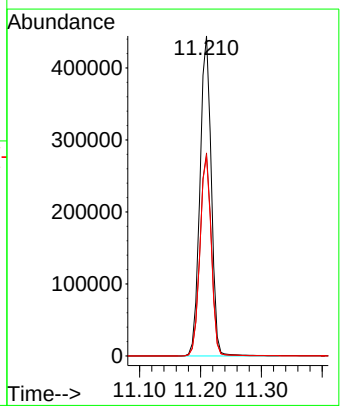


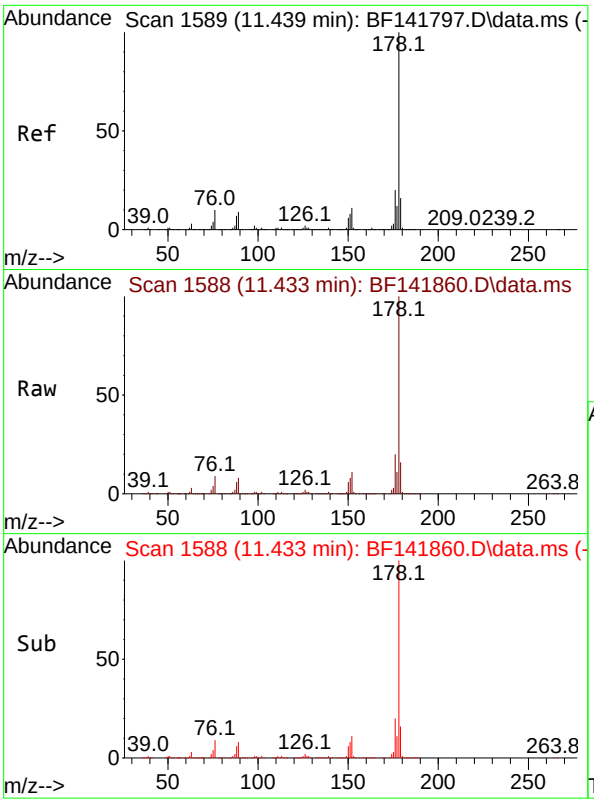


#70
Pentachlorophenol
Concen: 91.516 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:266 Resp: 574113

Ion	Ratio	Lower	Upper
266	100		
268	63.3	50.9	76.3
264	62.4	50.2	75.4





#71
Phenanthrene
Concen: 42.258 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

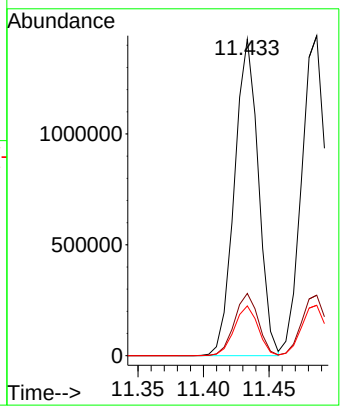
Tgt Ion:178 Resp: 181270

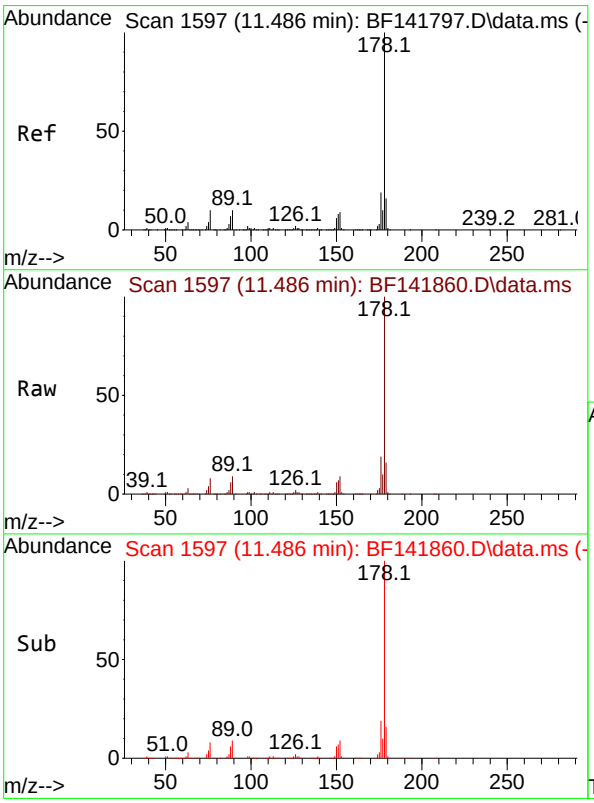
Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.7	12.6	19.0

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

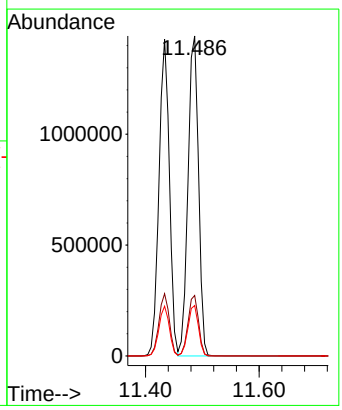


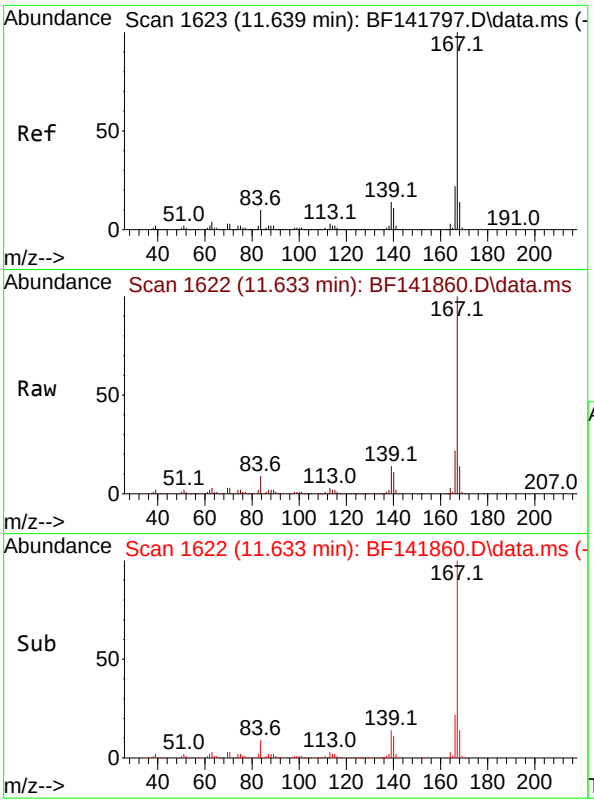


#72
Anthracene
Concen: 43.146 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:178 Resp: 1854922

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.8	12.8	19.2

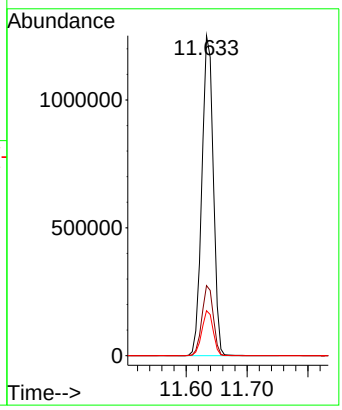




#73
Carbazole
Concen: 43.058 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:167 Resp: 163469

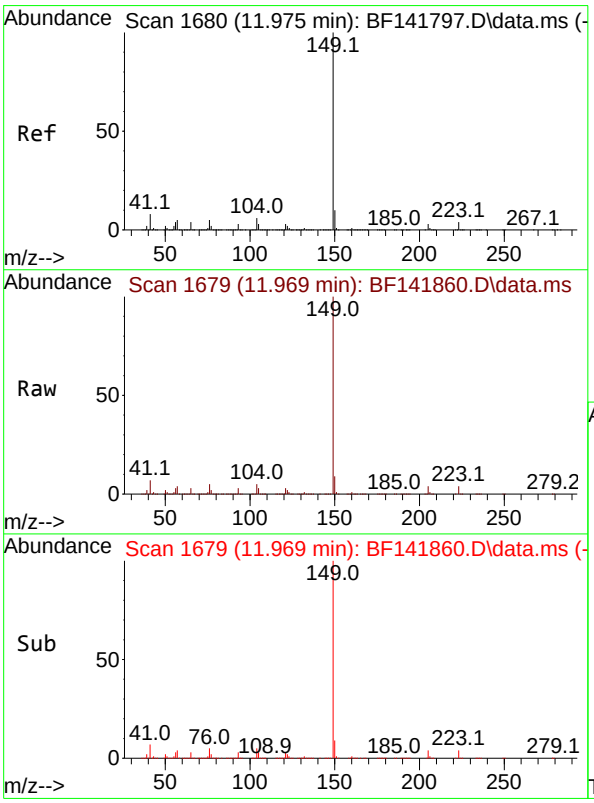
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.0	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

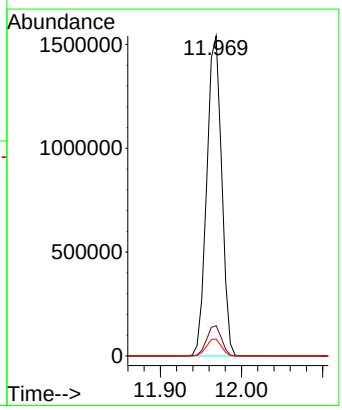
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

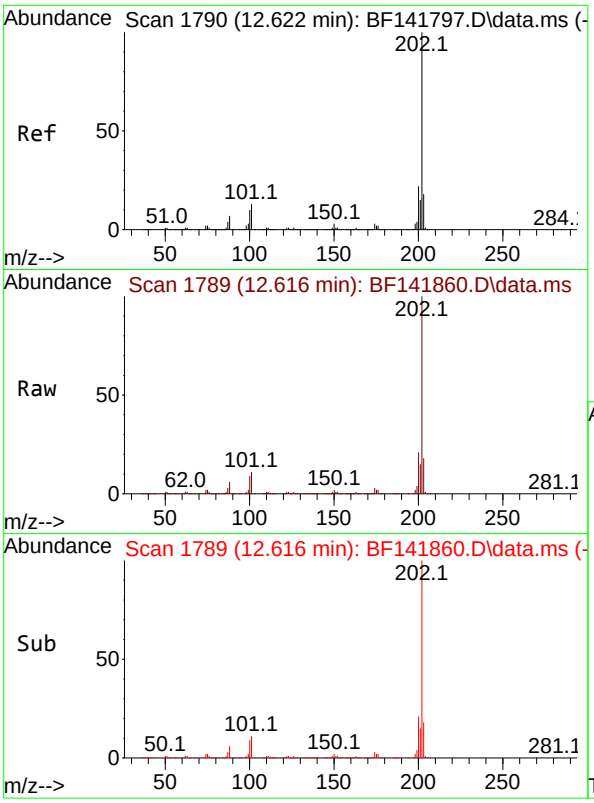


#74
Di-n-butylphthalate
Concen: 40.557 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 1951706

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.3	4.4	6.6

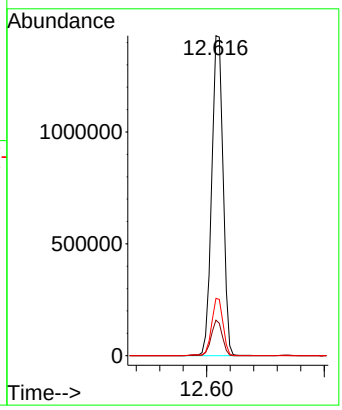




#75
Fluoranthene
Concen: 43.749 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:202 Resp: 192292

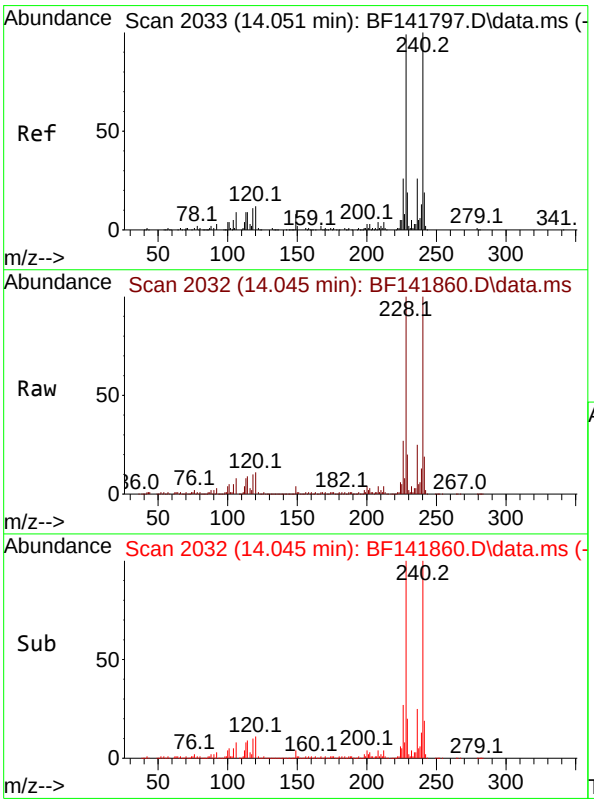
Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	32.8
203	17.9	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

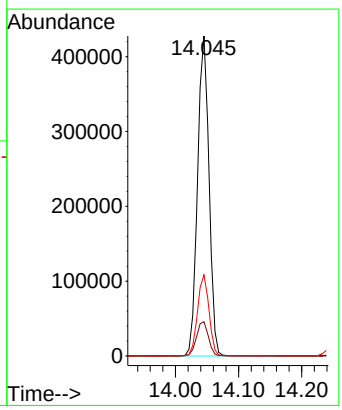
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

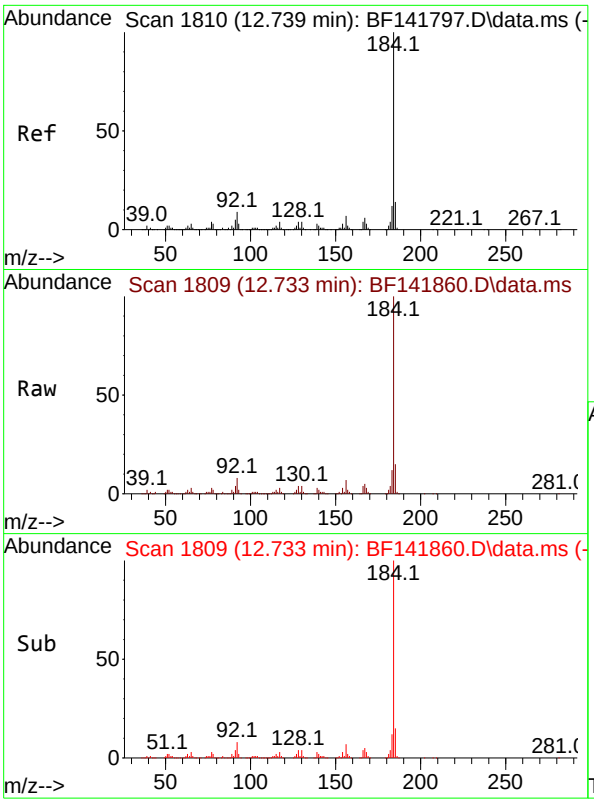


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:240 Resp: 537472

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.7	14.5
236	25.3	21.0	31.4

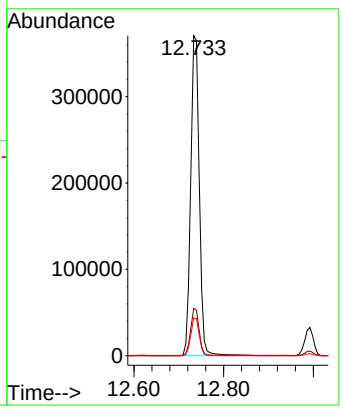




#77
Benzidine
Concen: 72.902 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:184 Resp: 49316

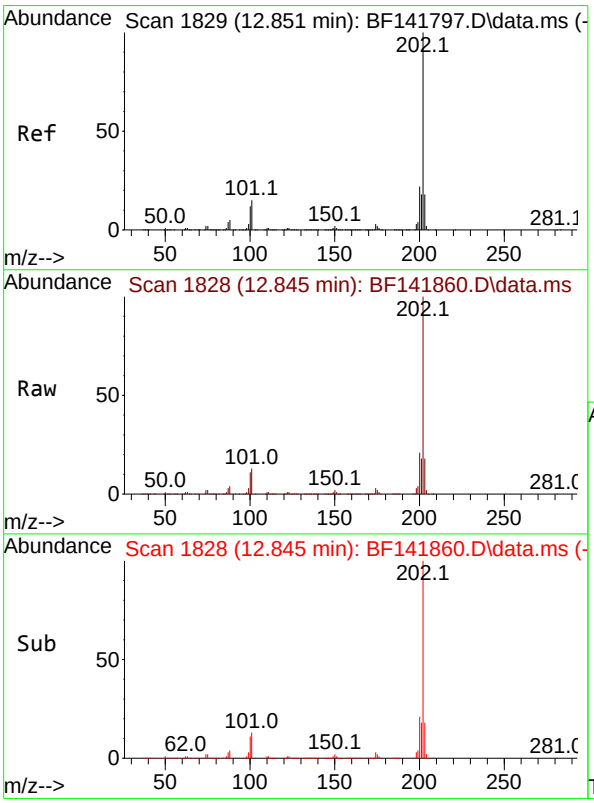
Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.6	17.4
183	11.8	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

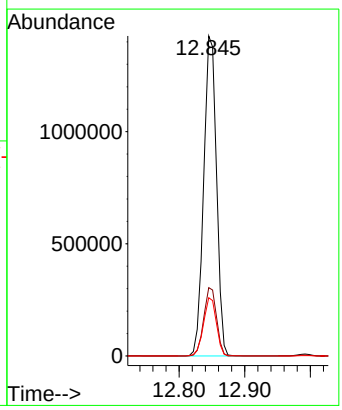
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

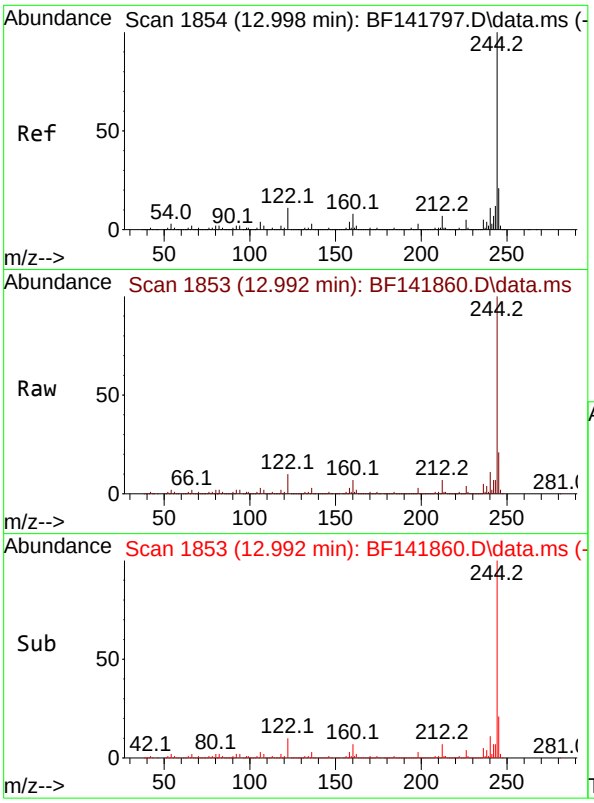


#78
Pyrene
Concen: 41.714 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:202 Resp: 1941461

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0
203	18.2	14.6	22.0

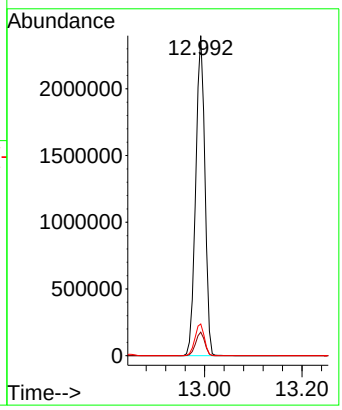




#79
Terphenyl-d14
Concen: 94.941 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:244 Resp: 315392

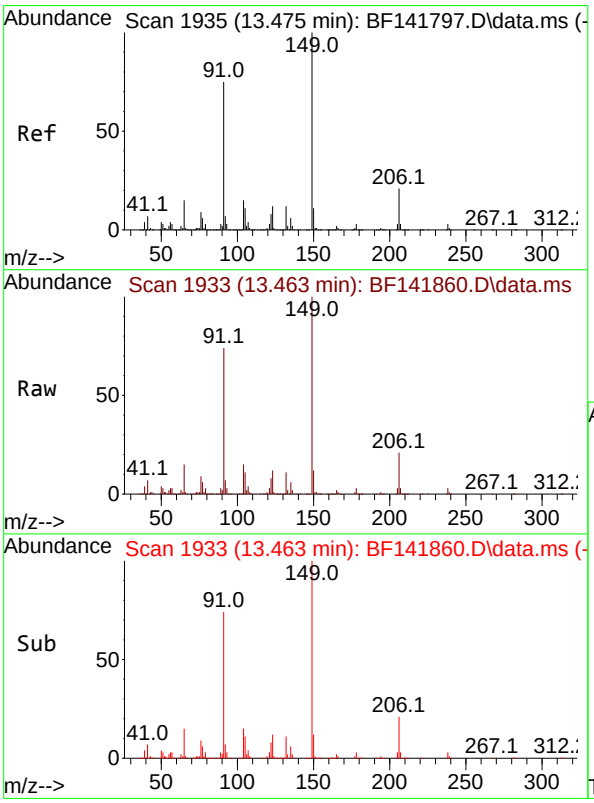
Ion	Ratio	Lower	Upper
244	100		
212	7.3	6.0	9.0
122	9.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

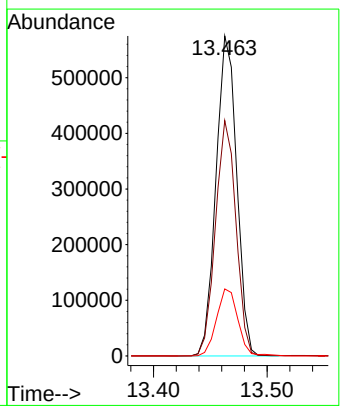
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

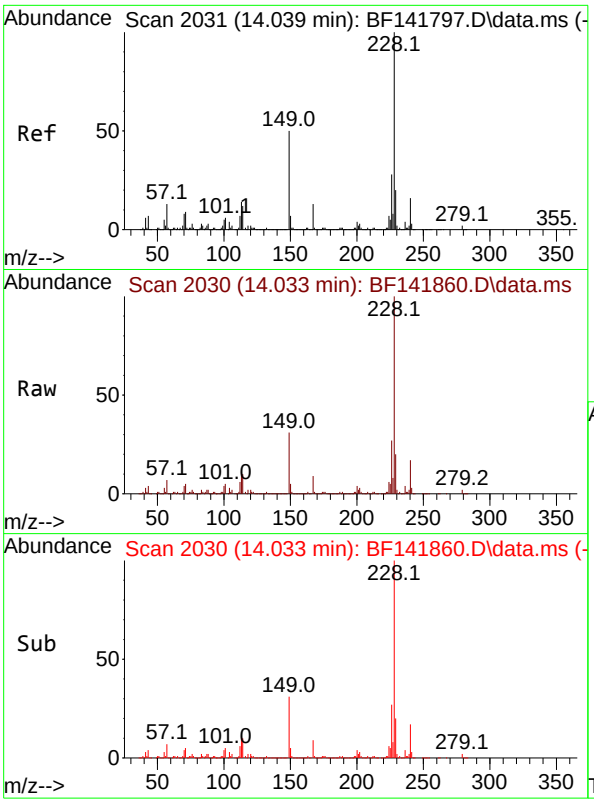


#80
Butylbenzylphthalate
Concen: 43.184 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 730230

Ion	Ratio	Lower	Upper
149	100		
91	73.6	60.1	90.1
206	20.9	16.8	25.2

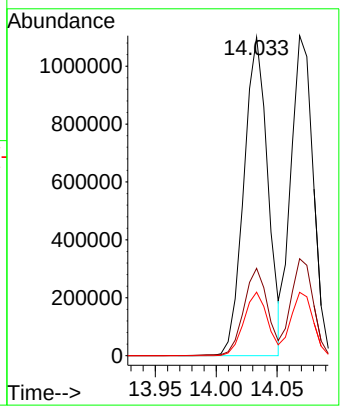




#81
Benzo(a)anthracene
Concen: 42.445 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:228 Resp: 150685

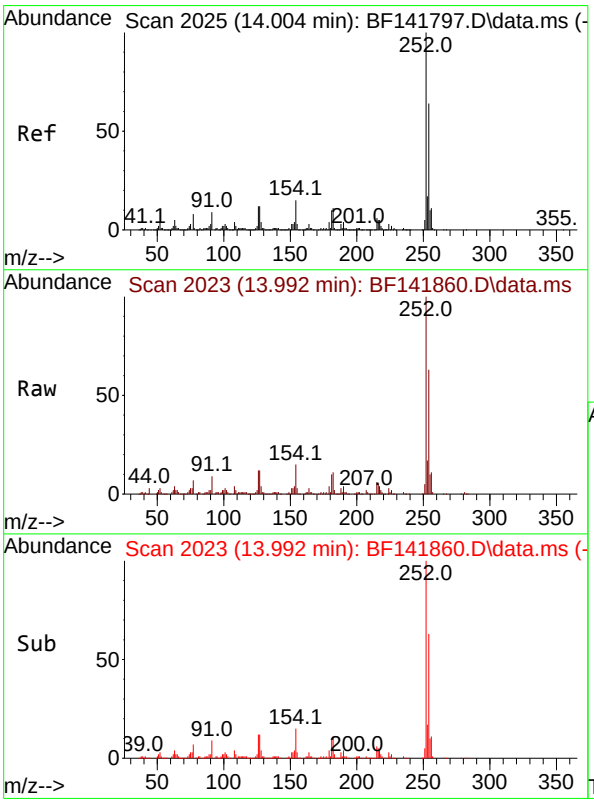
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.1	33.1
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

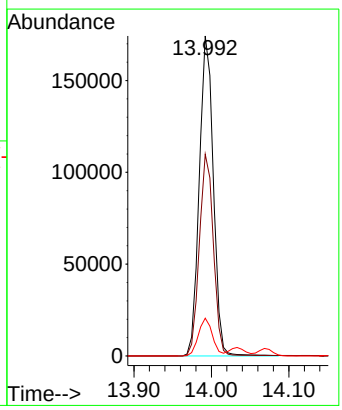
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

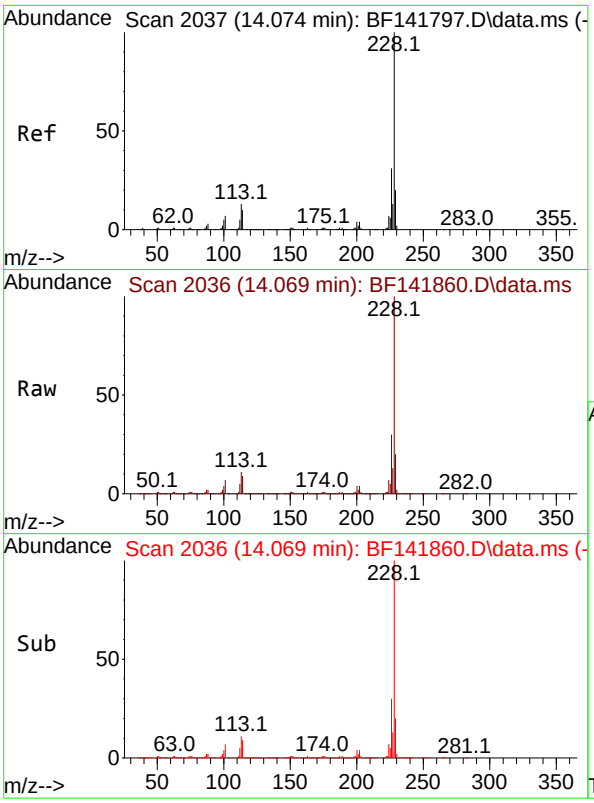


#82
3,3'-Dichlorobenzidine
Concen: 21.565 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 219648

Ion	Ratio	Lower	Upper
252	100		
254	63.1	51.4	77.0
126	11.8	9.8	14.6

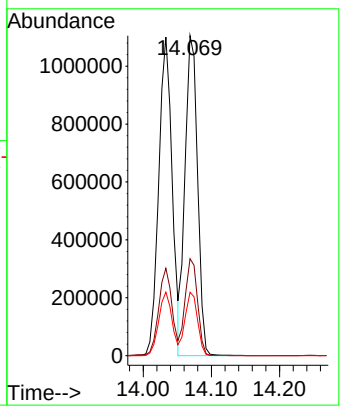




#83
Chrysene
Concen: 42.886 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:228 Resp: 140346

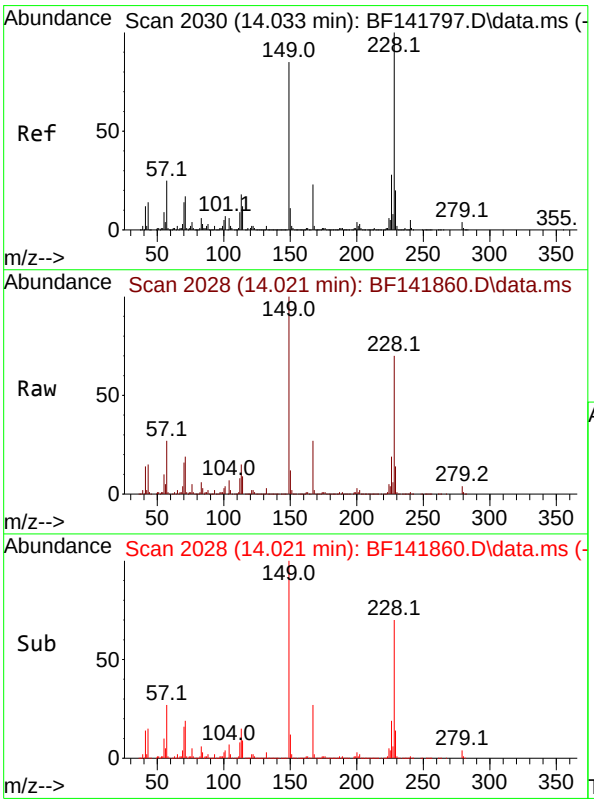
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

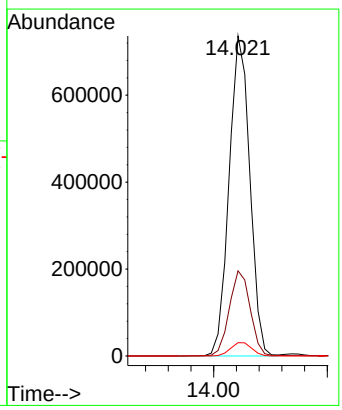
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

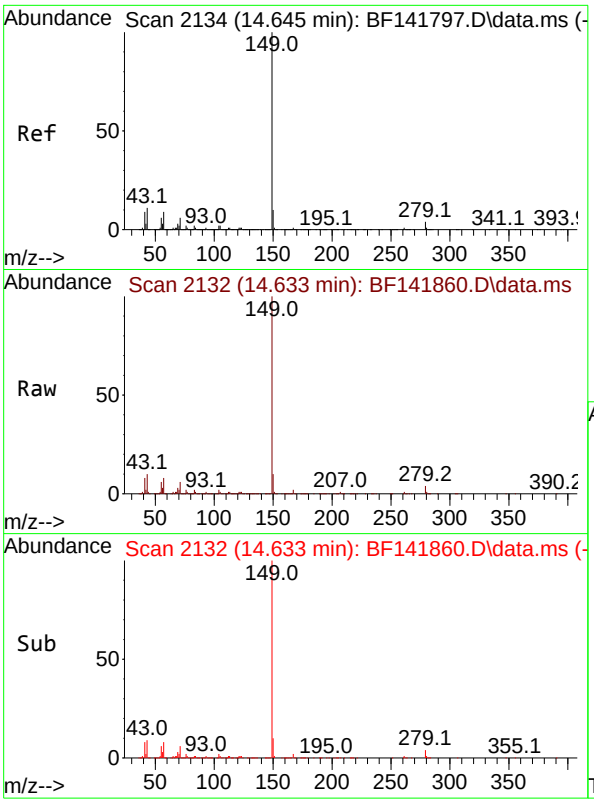


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.285 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:149 Resp: 932426

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.2	31.8
279	4.1	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 43.146 ng
RT: 14.633 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

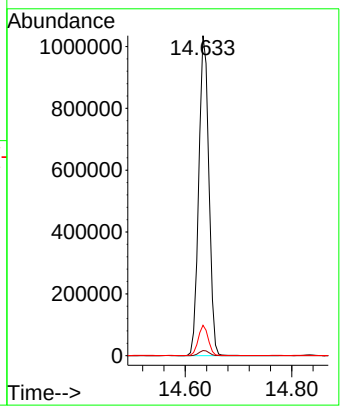
Tgt Ion:149 Resp: 136003

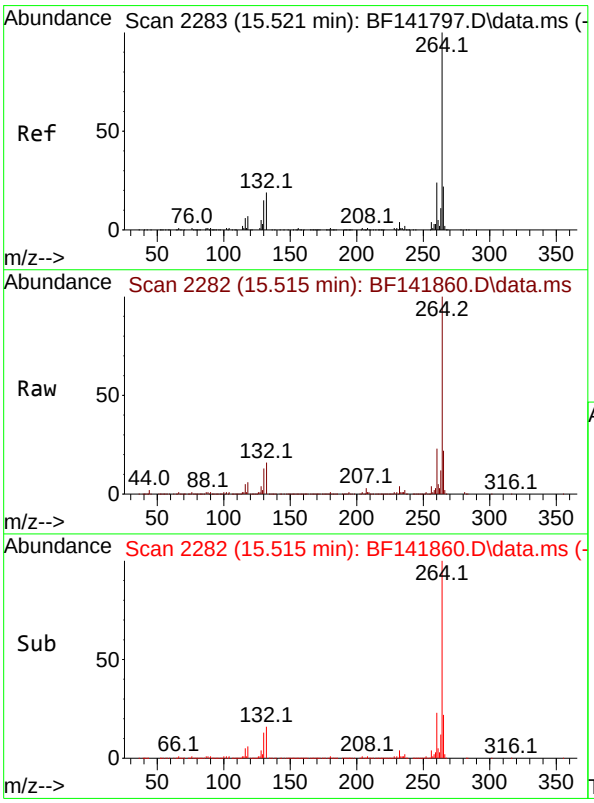
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	9.3	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

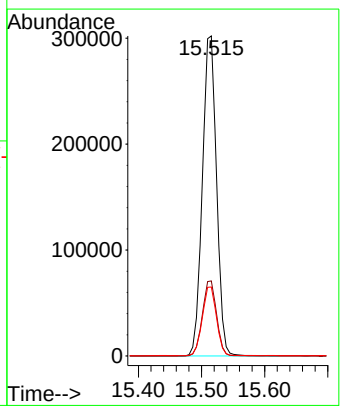


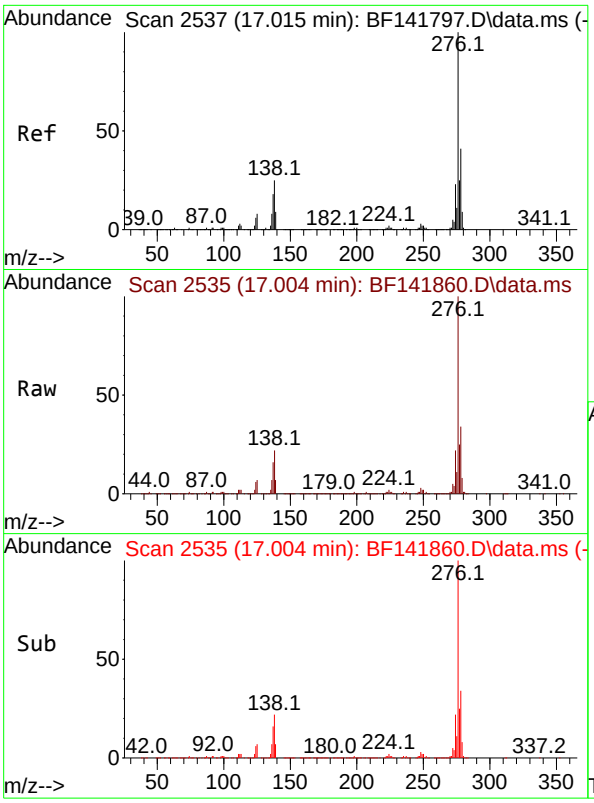


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:264 Resp: 470320

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.9	28.3
265	21.6	17.4	26.0

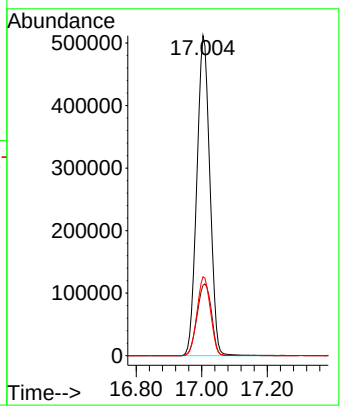




#87
Indeno(1,2,3-cd)pyrene
Concen: 47.292 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:276 Resp: 141631

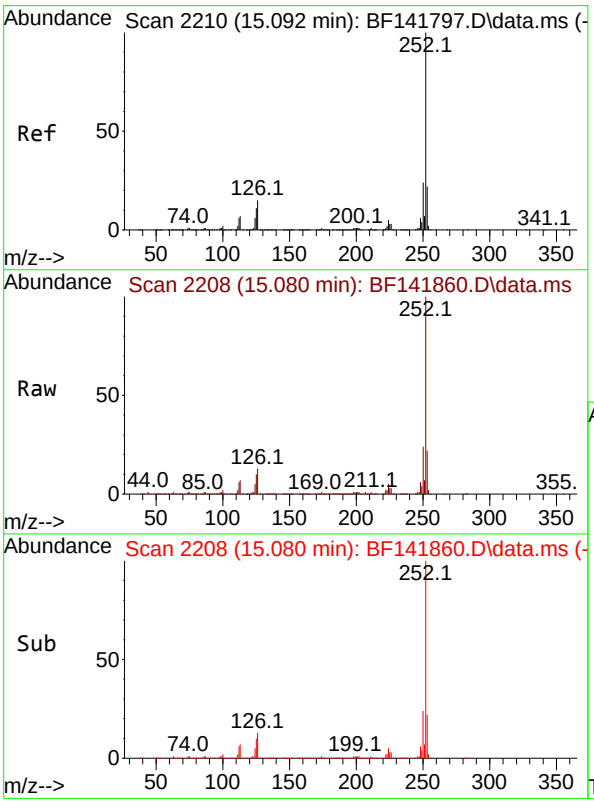
Ion	Ratio	Lower	Upper
276	100		
138	24.8	22.5	33.7
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

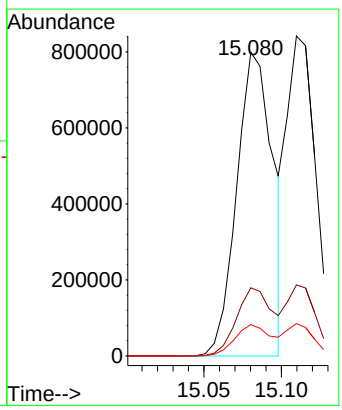
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

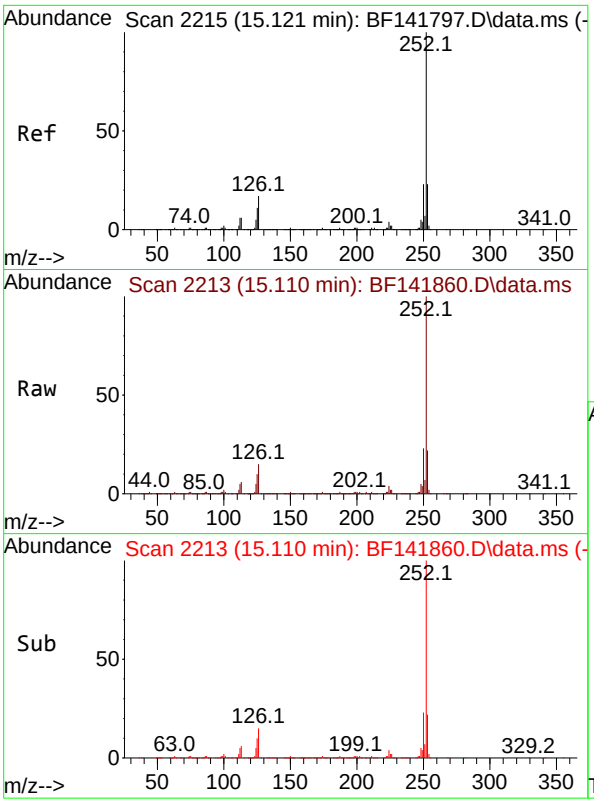


#88
Benzo(b)fluoranthene
Concen: 40.491 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 1297204

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	10.3	8.6	13.0

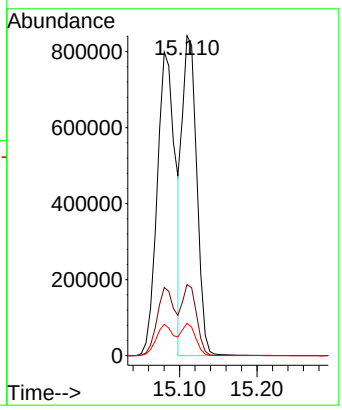




#89
Benzo(k)fluoranthene
Concen: 40.365 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 109913

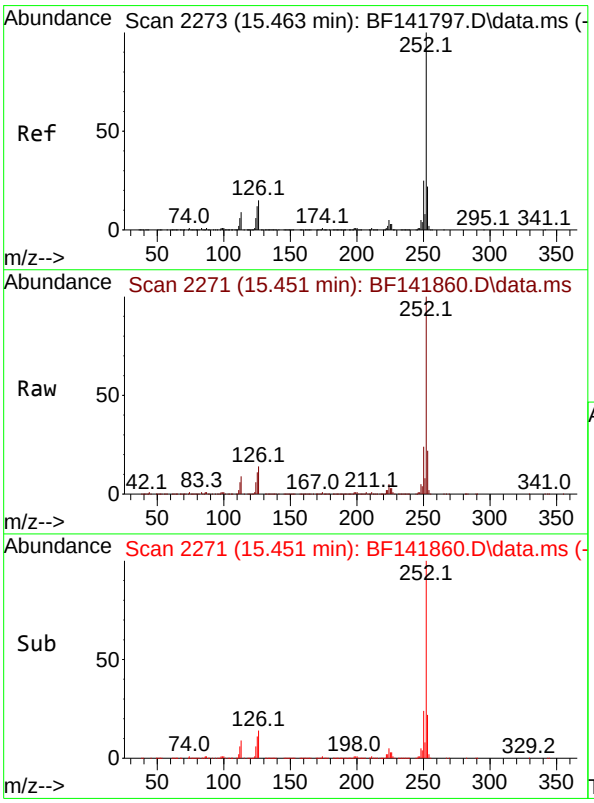
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.8
125	10.1	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

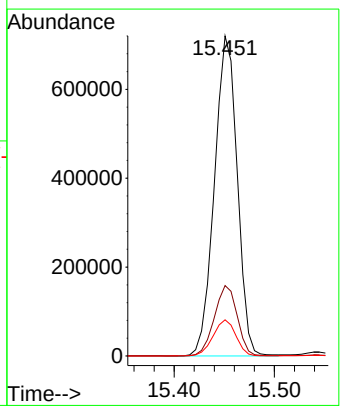
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025

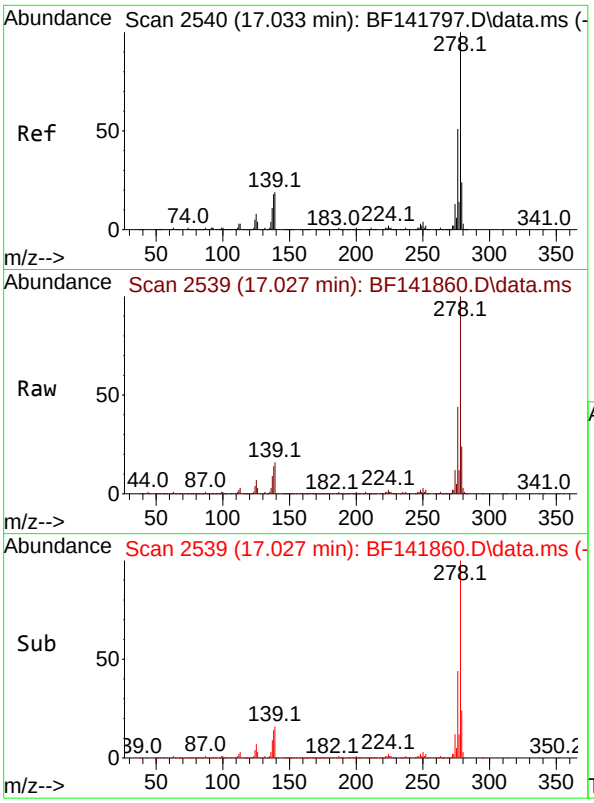


#90
Benzo(a)pyrene
Concen: 44.247 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:252 Resp: 1136844

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	11.3	9.4	14.2

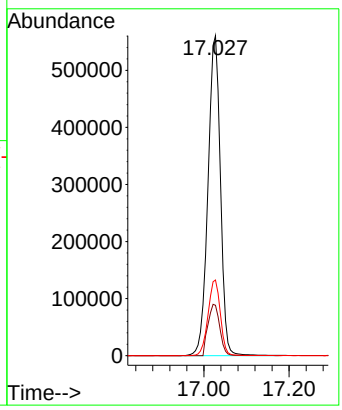




#91
Dibenzo(a,h)anthracene
Concen: 46.521 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:278 Resp: 113723

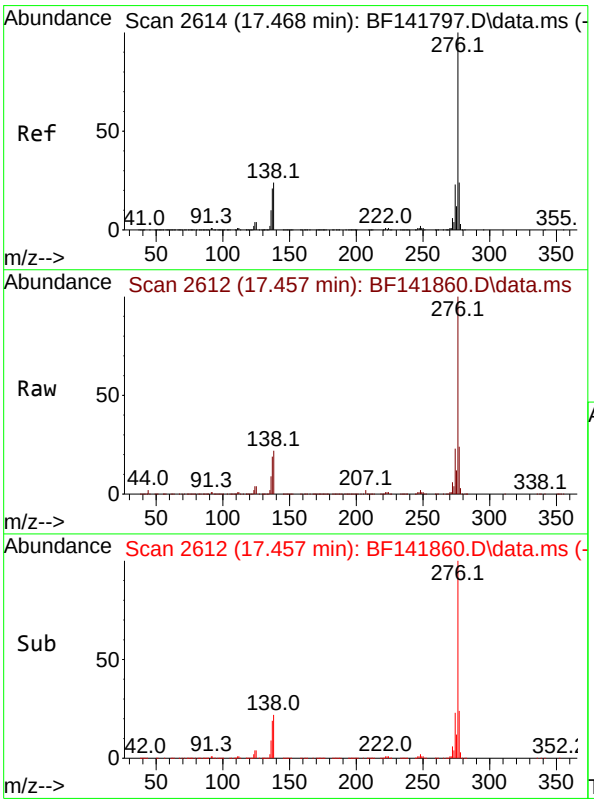
Ion	Ratio	Lower	Upper
278	100		
139	15.8	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
PB166984BS

Manual Integrations
APPROVED

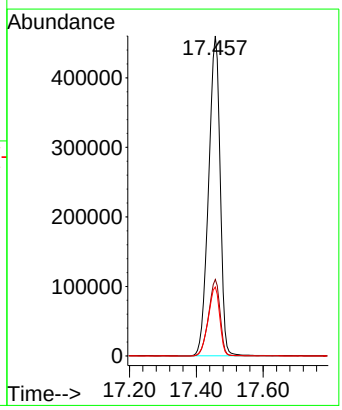
Reviewed By :Anahy Claudio 03/07/2025
Supervised By :Jagrut Upadhyay 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 44.126 ng
RT: 17.457 min Scan# 2612
Delta R.T. -0.012 min
Lab File: BF141860.D
Acq: 06 Mar 2025 10:52

Tgt Ion:276 Resp: 1105086

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	21.6	19.3	28.9



Raw Data: **BF141844.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	850		210	370	ug/Kg
108-95-2	Phenol	1600		94.0	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.9	190	ug/Kg
95-57-8	2-Chlorophenol	1600		94.7	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.4	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1700		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.5	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.3	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.7	190	ug/Kg
106-47-8	4-Chloroaniline	910		93.7	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.5	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.6	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		81.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1800		99.1	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.5	190	ug/Kg
88-74-4	2-Nitroaniline	1900		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

Raw Data: **BF141844.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		98.1	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1300		100	190	ug/Kg
83-32-9	Acenaphthene	1700		92.0	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2700		280	370	ug/Kg
100-02-7	4-Nitrophenol	4200	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.7	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2000		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1500		97.1	190	ug/Kg
86-73-7	Fluorene	1600		97.0	190	ug/Kg
100-01-6	4-Nitroaniline	1900		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.5	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.4	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.7	370	ug/Kg
85-01-8	Phenanthrene	1700		95.3	190	ug/Kg
120-12-7	Anthracene	1700		95.7	190	ug/Kg
86-74-8	Carbazole	1700		91.1	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.6	190	ug/Kg
206-44-0	Fluoranthene	1500		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.5	190	ug/Kg
218-01-9	Chrysene	1600		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1700		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		92.0	190	ug/Kg

Raw Data: **BF141844.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MS	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141844.D	1	03/05/25 09:40	03/05/25 15:21	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.7	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.6	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1300		92.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	107		18 - 112	71%	SPK: 150
13127-88-3	Phenol-d6	102		15 - 107	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		18 - 107	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.3		20 - 109	73%	SPK: 100
118-79-6	2,4,6-Tribromophenol	113		10 - 116	76%	SPK: 150
1718-51-0	Terphenyl-d14	55.5		10 - 105	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	192000	6.886			
1146-65-2	Naphthalene-d8	734000	8.169			
15067-26-2	Acenaphthene-d10	370000	9.922			
1517-22-2	Phenanthrene-d10	565000	11.404			
1719-03-5	Chrysene-d12	409000	14.039			
1520-96-3	Perylene-d12	473000	15.509			

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: **BF141844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	192210	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	734232	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	370025	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	565314	20.000	ng	0.00
76) Chrysene-d12	14.039	240	409462	20.000	ng	-0.01
86) Perylene-d12	15.509	264	473342	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1284833	106.751	ng	0.00
7) Phenol-d6	6.504	99	1597457	101.972	ng	0.00
23) Nitrobenzene-d5	7.445	82	1004018	87.407	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	393680	113.326	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1691234	73.287	ng	0.00
79) Terphenyl-d14	12.986	244	1404647	55.502	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	228610	41.861	ng	98
3) Pyridine	3.475	79	539964	39.738	ng	98
4) n-Nitrosodimethylamine	3.416	42	280375	42.884	ng	95
6) Aniline	6.545	93	612696	37.620	ng	100
8) 2-Chlorophenol	6.669	128	564761	43.377	ng	97
9) Benzaldehyde	6.434	77	204683	22.462	ng	99
10) Phenol	6.522	94	725989	43.368	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	526773	41.282	ng	96
12) 1,3-Dichlorobenzene	6.828	146	593769	42.585	ng	100
13) 1,4-Dichlorobenzene	6.904	146	605338	43.087	ng	99
14) 1,2-Dichlorobenzene	7.057	146	577487	44.019	ng	98
15) Benzyl Alcohol	7.022	79	492984	39.376	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	729509	37.645	ng	100
17) 2-Methylphenol	7.128	107	448607	41.743	ng	100
18) Hexachloroethane	7.398	117	223054	42.419	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	384941	37.380	ng	98
20) 3+4-Methylphenols	7.281	107	568592	42.489	ng	96
22) Acetophenone	7.292	105	827134	46.254	ng	97
24) Nitrobenzene	7.463	77	588435	47.838	ng	99
25) Isophorone	7.704	82	1023670	41.482	ng	98
26) 2-Nitrophenol	7.780	139	272681	49.470	ng	98
27) 2,4-Dimethylphenol	7.810	122	475901	52.462	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	615055	39.071	ng	100
29) 2,4-Dichlorophenol	8.016	162	443054	42.337	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	484159	42.221	ng	99
31) Naphthalene	8.186	128	1565470	41.484	ng	99
32) Benzoic acid	7.910	122	353009m	46.845	ng	
33) 4-Chloroaniline	8.233	127	332297	24.016	ng	98
34) Hexachlorobutadiene	8.304	225	301524	42.314	ng	99
35) Caprolactam	8.592	113	165832	51.511	ng	93
36) 4-Chloro-3-methylphenol	8.704	107	477385	41.065	ng	99
37) 2-Methylnaphthalene	8.880	142	971643	39.255	ng	100
38) 1-Methylnaphthalene	8.975	142	949369	39.973	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	515221	48.211	ng	99
41) Hexachlorocyclopentadiene	9.033	237	565053	126.697	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	313746	45.449	ng	99

Sample Results: **BF141844.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	323494	47.324	ng		99
46) 1,1'-Biphenyl	9.339	154	1353556	48.058	ng		99
47) 2-Chloronaphthalene	9.369	162	928972	44.688	ng		98
48) 2-Nitroaniline	9.457	65	291855	50.994	ng		95
49) Acenaphthylene	9.780	152	1433535	45.995	ng		99
50) Dimethylphthalate	9.639	163	1048895	42.329	ng		100
51) 2,6-Dinitrotoluene	9.698	165	232333	48.952	ng		95
52) Acenaphthene	9.957	154	954639	45.394	ng		99
53) 3-Nitroaniline	9.869	138	173093	35.128	ng	#	91
54) 2,4-Dinitrophenol	9.969	184	147123	70.645	ng	#	20
55) Dibenzofuran	10.127	168	1269599	41.477	ng		98
56) 4-Nitrophenol	10.016	139	401998	109.840	ng		99
57) 2,4-Dinitrotoluene	10.104	165	310411	53.198	ng		92
58) Fluorene	10.469	166	971273	42.361	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	259524m	43.653	ng		
60) Diethylphthalate	10.339	149	991255	39.903	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	470028	40.915	ng		98
62) 4-Nitroaniline	10.480	138	215910	51.021	ng		96
63) Azobenzene	10.621	77	1080202	41.298	ng		95
65) 4,6-Dinitro-2-methylph...	10.504	198	102419	40.086	ng		98
66) n-Nitrosodiphenylamine	10.574	169	861837	46.428	ng		99
67) 4-Bromophenyl-phenylether	10.951	248	288947	43.759	ng		98
68) Hexachlorobenzene	11.016	284	314028	45.037	ng		98
69) Atrazine	11.104	200	317462	62.190	ng		99
70) Pentachlorophenol	11.204	266	374526	84.690	ng		99
71) Phenanthrene	11.427	178	1360847	45.003	ng		99
72) Anthracene	11.480	178	1381172	45.574	ng		99
73) Carbazole	11.633	167	1177198	43.987	ng		99
74) Di-n-butylphthalate	11.963	149	1357104	40.005	ng		99
75) Fluoranthene	12.615	202	1240933	40.050	ng		98
77) Benzidine	12.733	184	496999	96.436	ng		100
78) Pyrene	12.845	202	1269067	35.792	ng		99
80) Butylbenzylphthalate	13.462	149	469636	36.456	ng		97
81) Benzo(a)anthracene	14.027	228	1232226	45.561	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	369769	47.653	ng		100
83) Chrysene	14.068	228	1062387	42.613	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	600275	37.423	ng		100
85) Di-n-octyl phthalate	14.633	149	1108571	46.163	ng		98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1050463	34.852	ng		98
88) Benzo(b)fluoranthene	15.080	252	1389072	43.082	ng		100
89) Benzo(k)fluoranthene	15.109	252	1085392	39.606	ng		99
90) Benzo(a)pyrene	15.451	252	1182996	45.749	ng		99
91) Dibenzo(a,h)anthracene	17.015	278	863598	35.102	ng		98
92) Benzo(g,h,i)perylene	17.445	276	737995	29.280	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141844.D
Acq On : 05 Mar 2025 15:21
Operator : RC/JU
Sample : Q1487-01MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

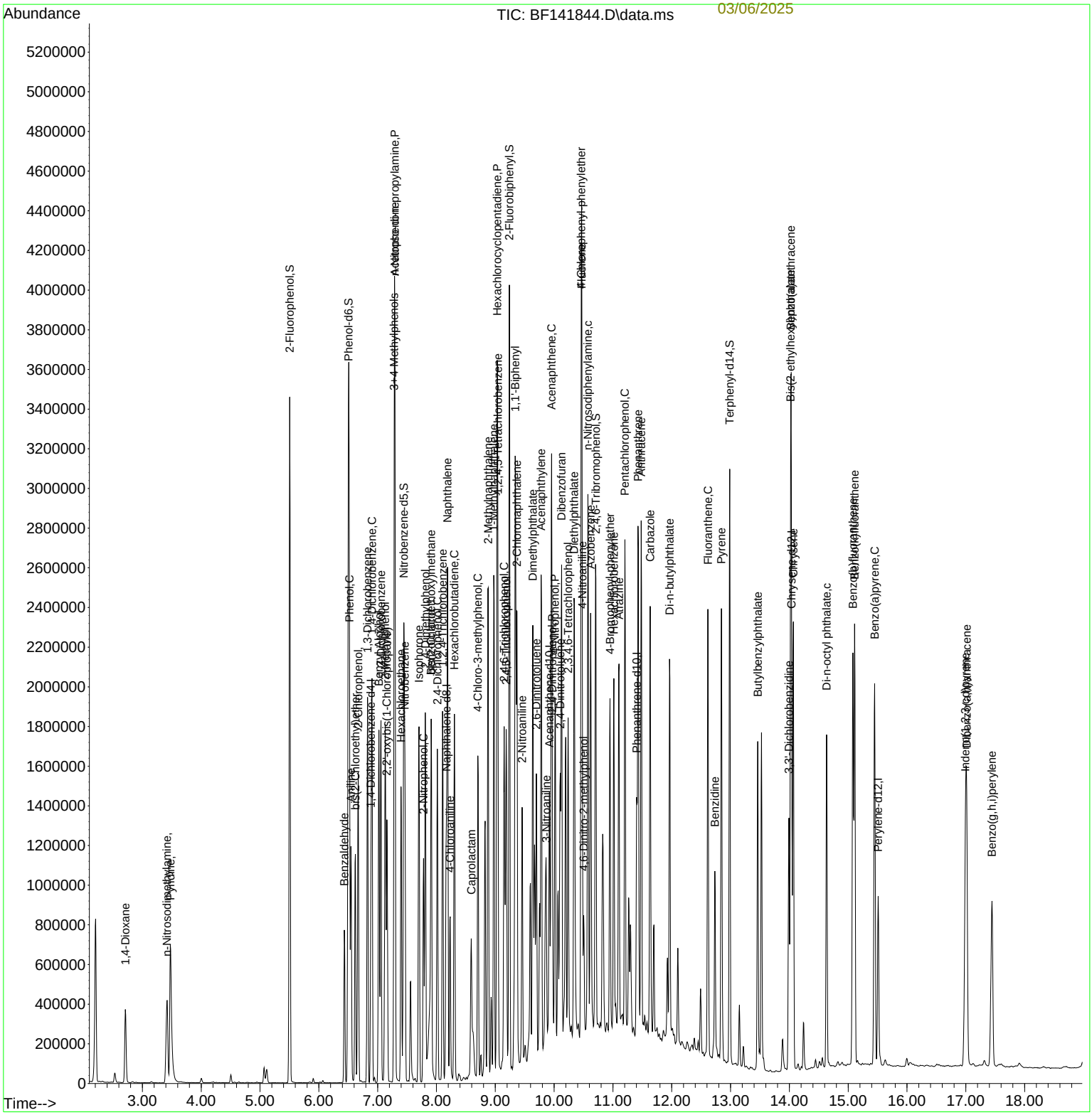
Quant Time: Mar 05 15:58:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

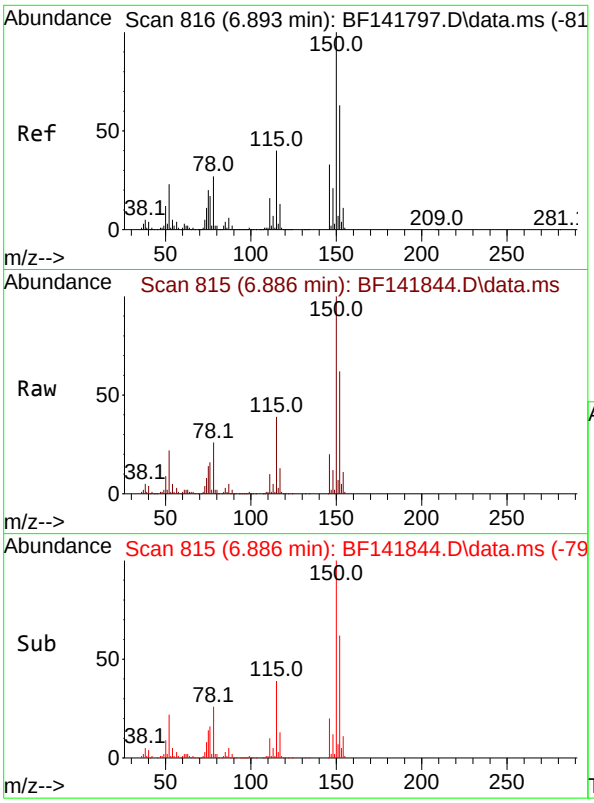
Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

Supervised By :Jagrut Upadhyay
03/06/2025

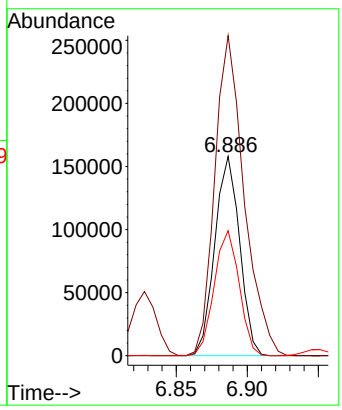




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:152 Resp: 19221

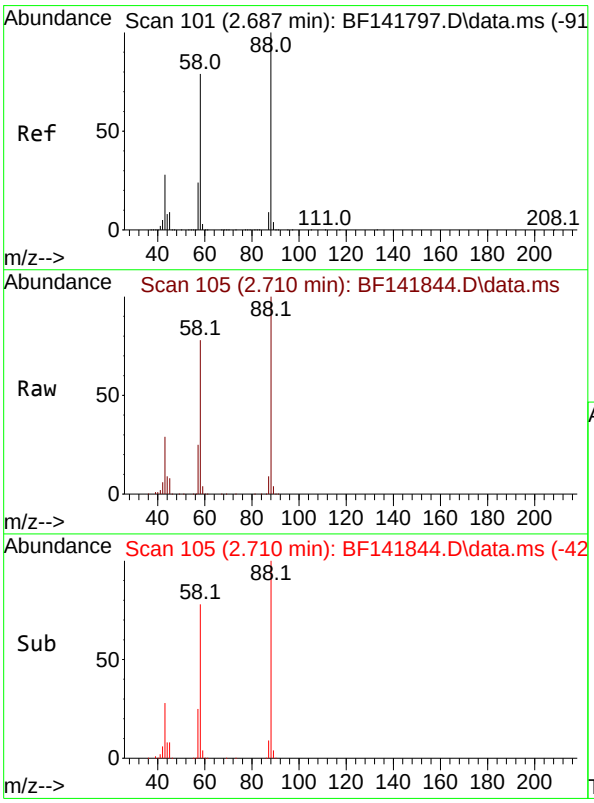
Ion	Ratio	Lower	Upper
152	100		
150	160.6	127.5	191.3
115	62.7	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

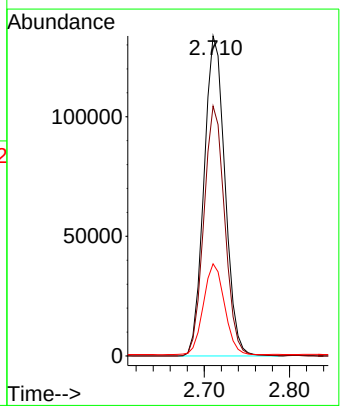
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

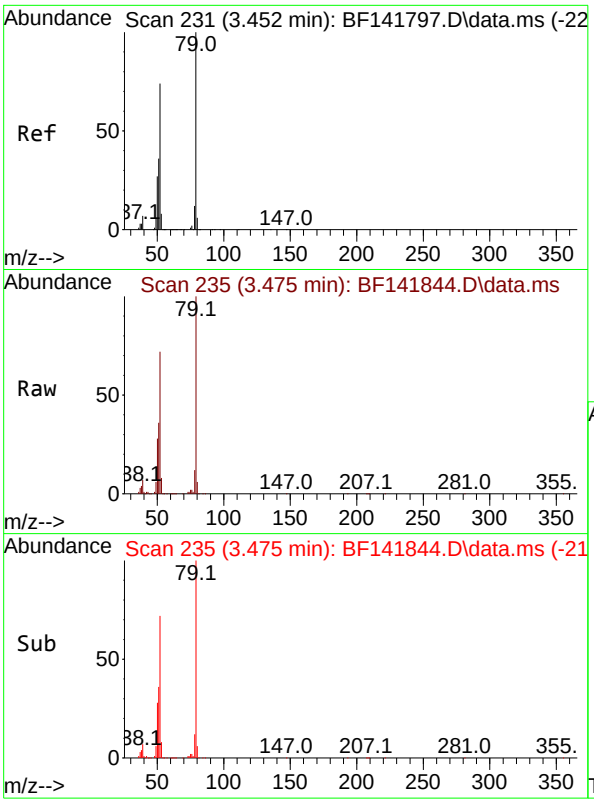


#2
1,4-Dioxane
Concen: 41.861 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.023 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 88 Resp: 228610

Ion	Ratio	Lower	Upper
88	100		
58	77.9	63.9	95.9
43	28.5	23.0	34.6

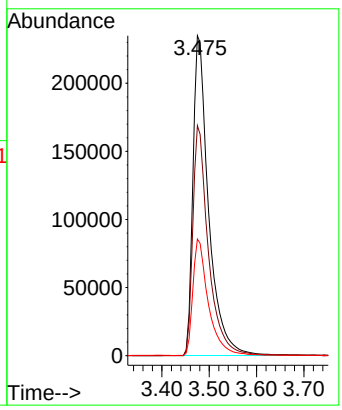




#3
Pyridine
Concen: 39.738 ng
RT: 3.475 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 79 Resp: 53996

Ion	Ratio	Lower	Upper
79	100		
52	71.9	59.0	88.4
51	36.5	29.0	43.4

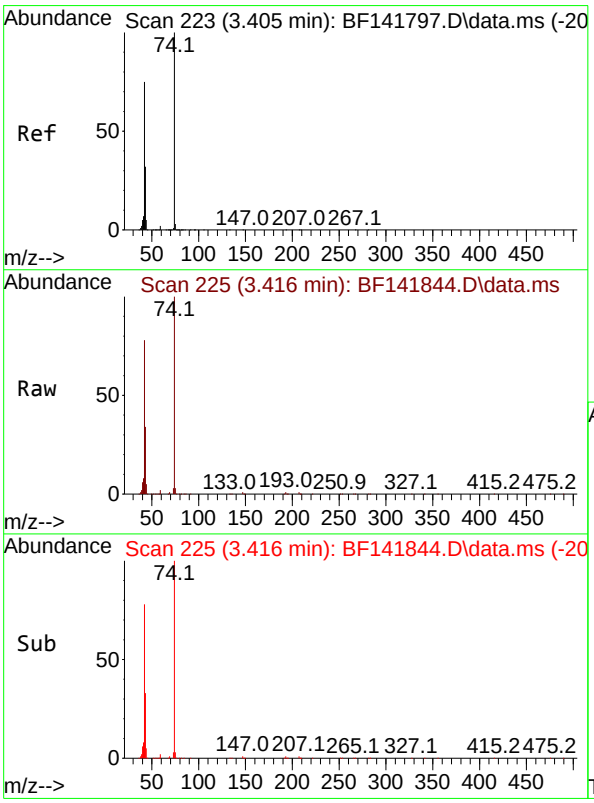


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

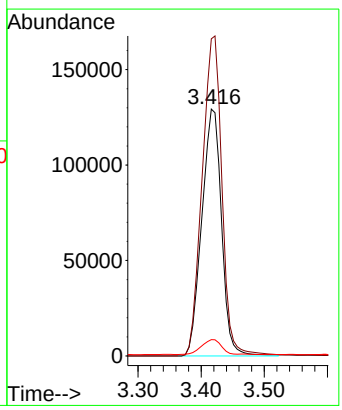
Supervised By :Jagrut Upadhyay
03/06/2025

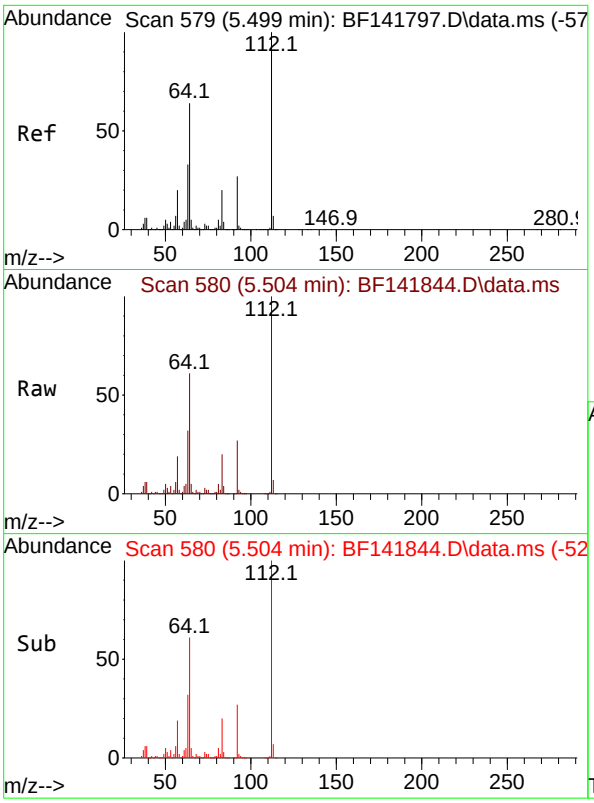


#4
n-Nitrosodimethylamine
Concen: 42.884 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.011 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 42 Resp: 280375

Ion	Ratio	Lower	Upper
42	100		
74	128.5	107.1	160.7
44	6.6	6.6	9.8

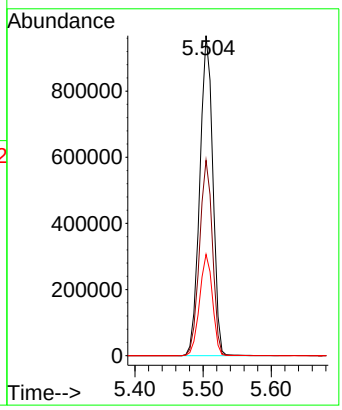




#5
2-Fluorophenol
Concen: 106.751 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:112 Resp: 128483

Ion	Ratio	Lower	Upper
112	100		
64	61.1	51.3	76.9
63	31.6	26.2	39.4

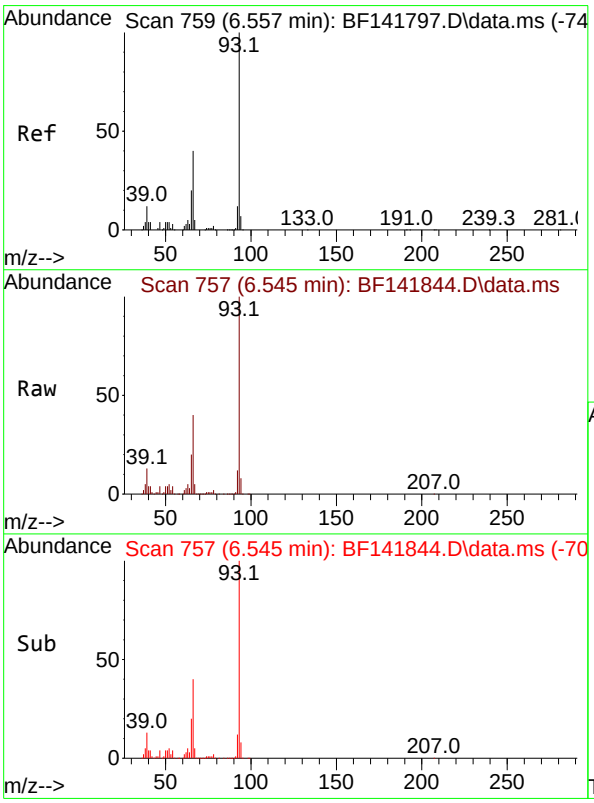


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

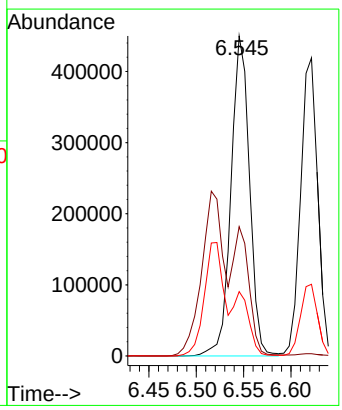
Supervised By :Jagrut Upadhyay
03/06/2025

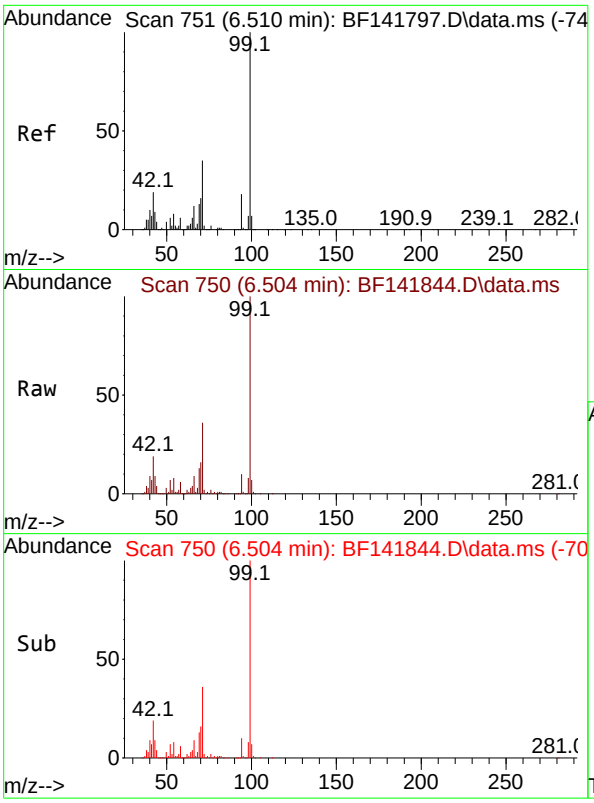


#6
Aniline
Concen: 37.620 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 612696

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	20.1	15.9	23.9

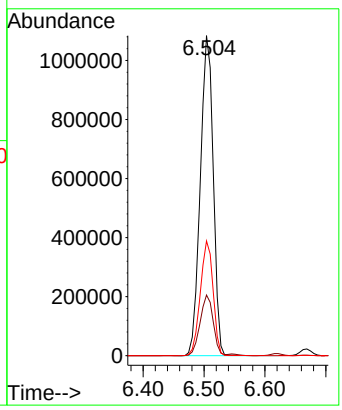




#7
Phenol-d6
Concen: 101.972 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 99 Resp: 159745

Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.2	22.8
71	35.8	28.2	42.2

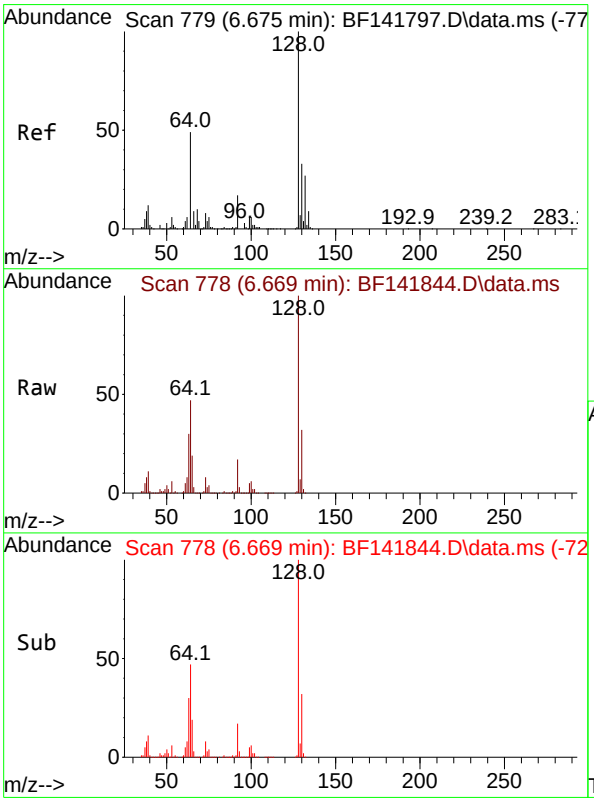


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

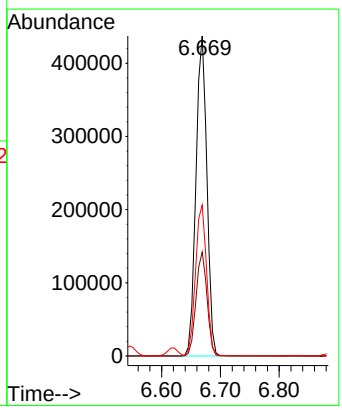
Supervised By :Jagrut Upadhyay
03/06/2025

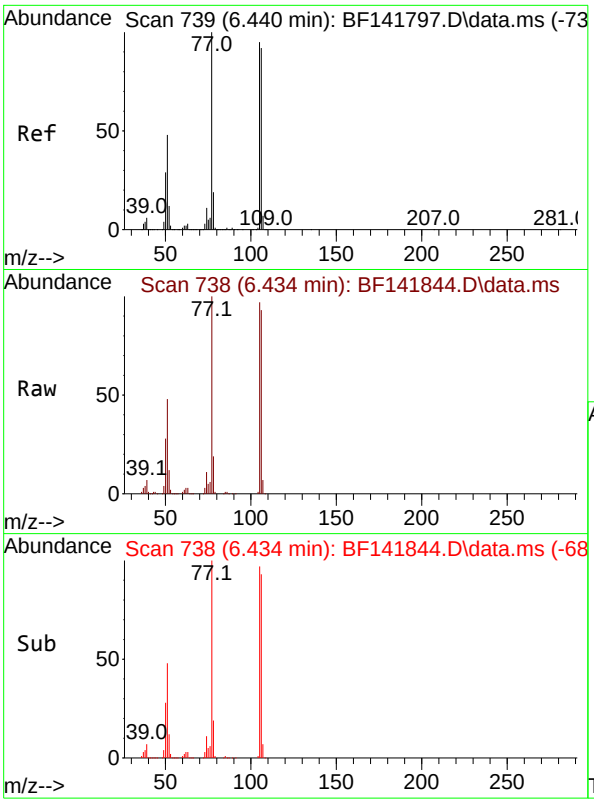


#8
2-Chlorophenol
Concen: 43.377 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:128 Resp: 564761

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	47.2	31.1	71.1

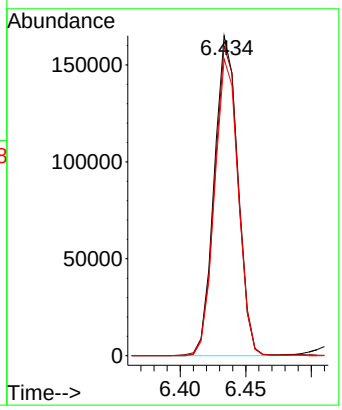




#9
Benzaldehyde
Concen: 22.462 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 20468

Ion	Ratio	Lower	Upper
77	100		
105	96.8	75.3	115.3
106	92.8	72.3	112.3

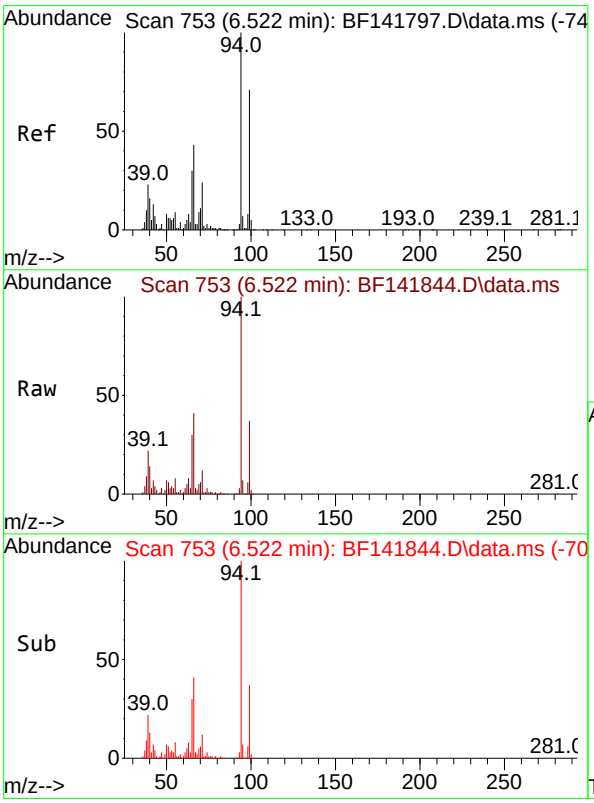


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

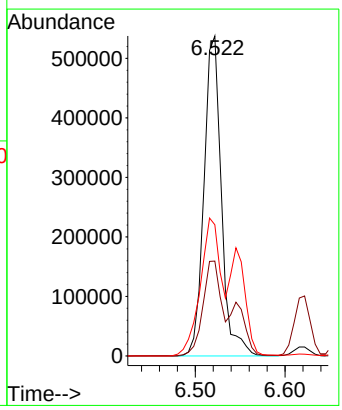
Supervised By :Jagrut Upadhyay
03/06/2025

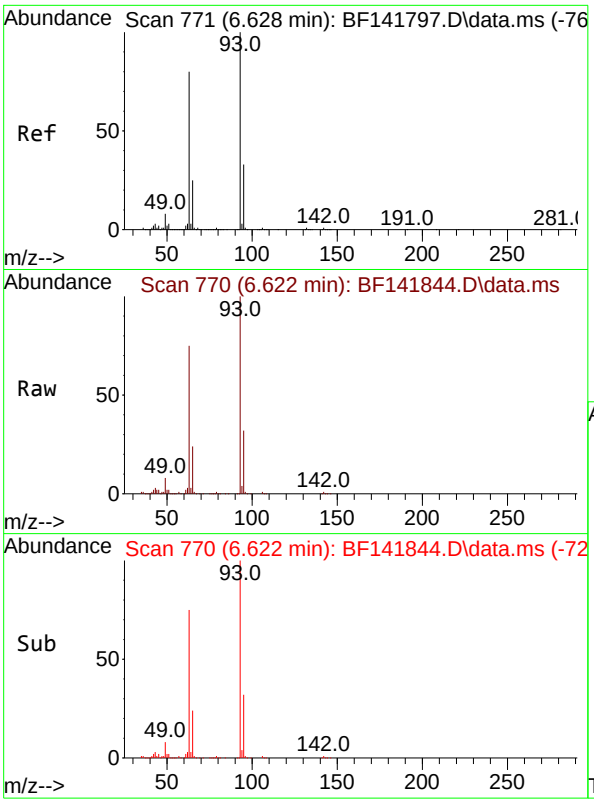


#10
Phenol
Concen: 43.368 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 94 Resp: 725989

Ion	Ratio	Lower	Upper
94	100		
65	29.6	10.2	50.2
66	41.0	23.2	63.2

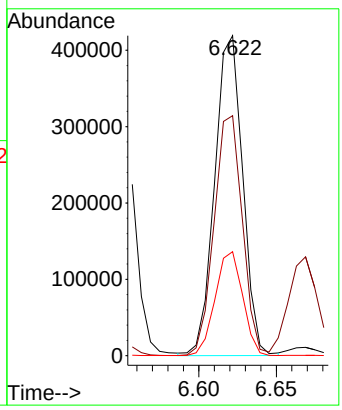




#11
bis(2-Chloroethyl)ether
Concen: 41.282 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 52677

Ion	Ratio	Lower	Upper
93	100		
63	75.0	59.3	99.3
95	32.5	13.2	53.2

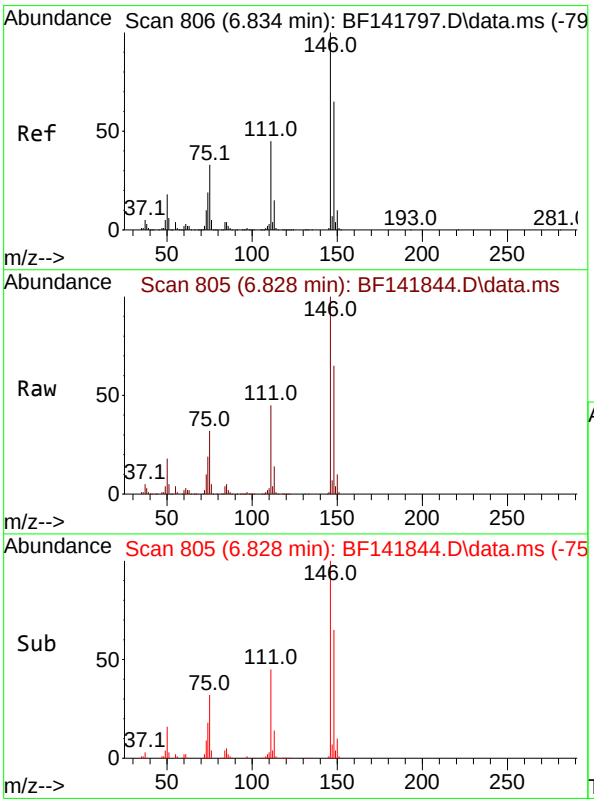


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

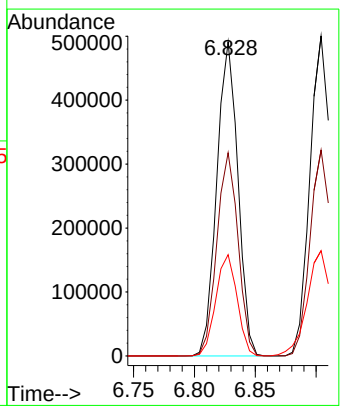
Supervised By :Jagrut Upadhyay
03/06/2025

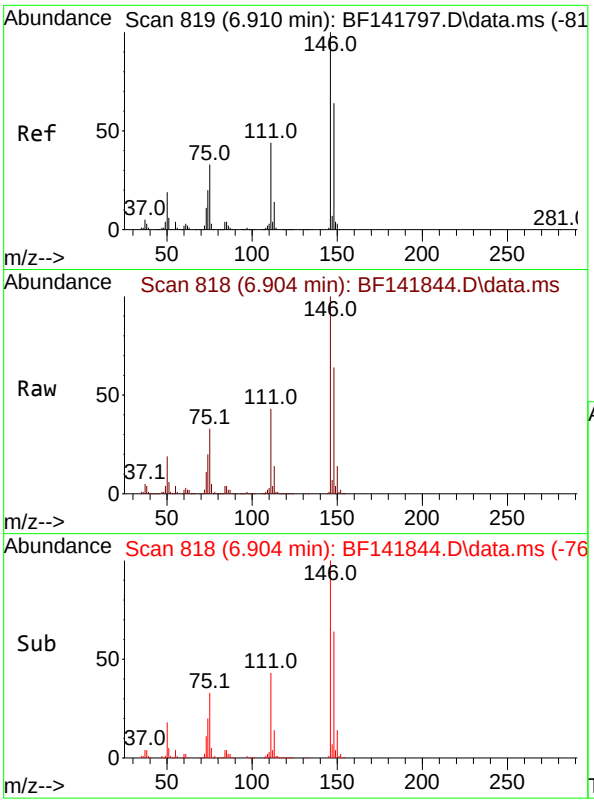


#12
1,3-Dichlorobenzene
Concen: 42.585 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 593769

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.8	77.6
75	32.3	26.2	39.4

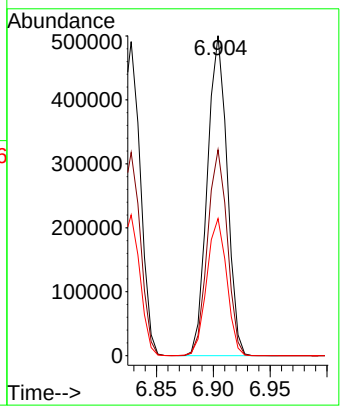




#13
1,4-Dichlorobenzene
Concen: 43.087 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 60533

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.2
111	42.9	35.5	53.3

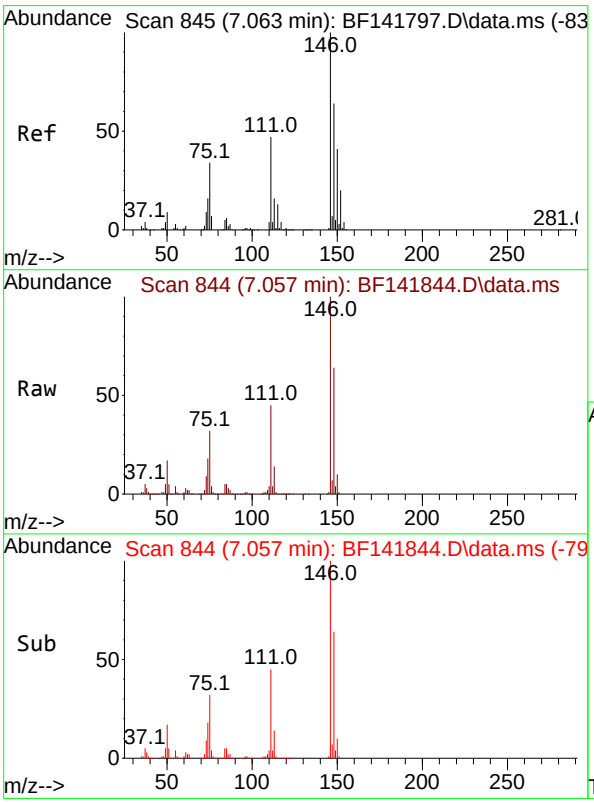


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

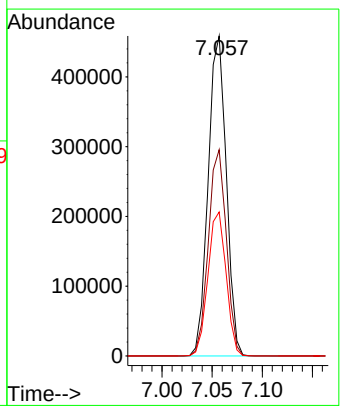
Supervised By :Jagrut Upadhyay
03/06/2025

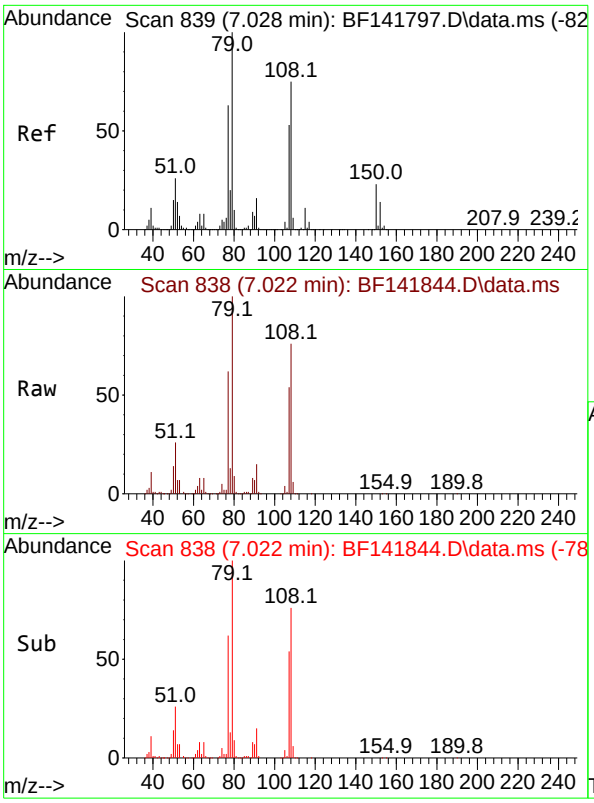


#14
1,2-Dichlorobenzene
Concen: 44.019 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:146 Resp: 577487

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	45.0	37.8	56.6

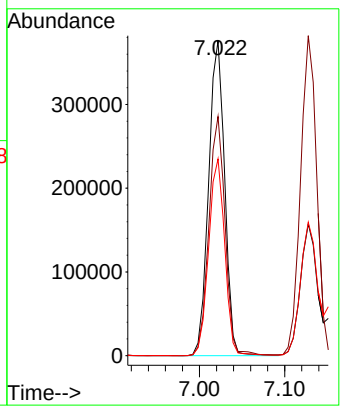




#15
Benzyl Alcohol
Concen: 39.376 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 79 Resp: 49298

Ion	Ratio	Lower	Upper
79	100		
108	75.9	60.2	90.2
77	62.4	50.2	75.2

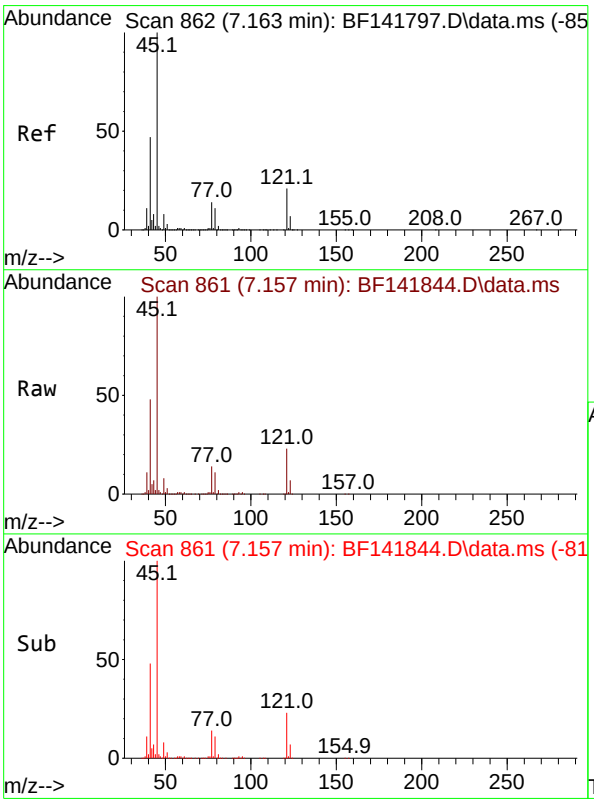


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

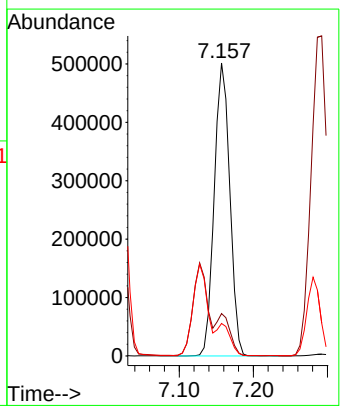
Supervised By :Jagrut Upadhyay
03/06/2025

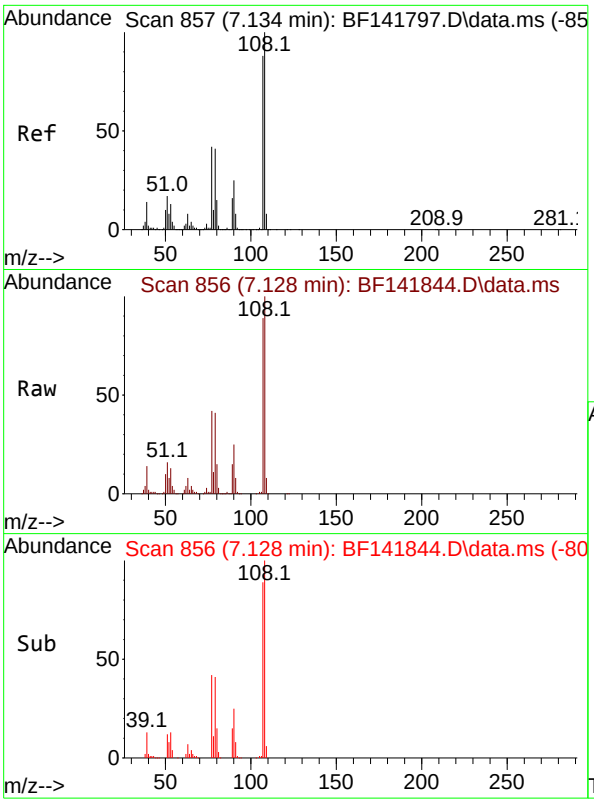


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.645 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 45 Resp: 729509

Ion	Ratio	Lower	Upper
45	100		
77	14.5	0.0	34.4
79	11.1	0.0	30.9

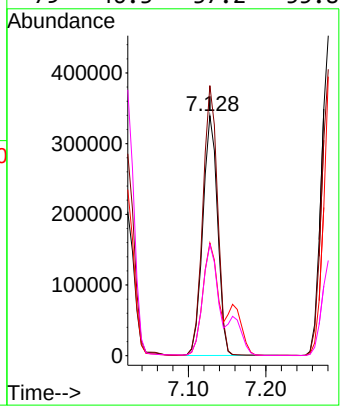




#17
2-Methylphenol
Concen: 41.743 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 44860

Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.6	135.8
77	46.9	37.7	56.5
79	46.3	37.2	55.8

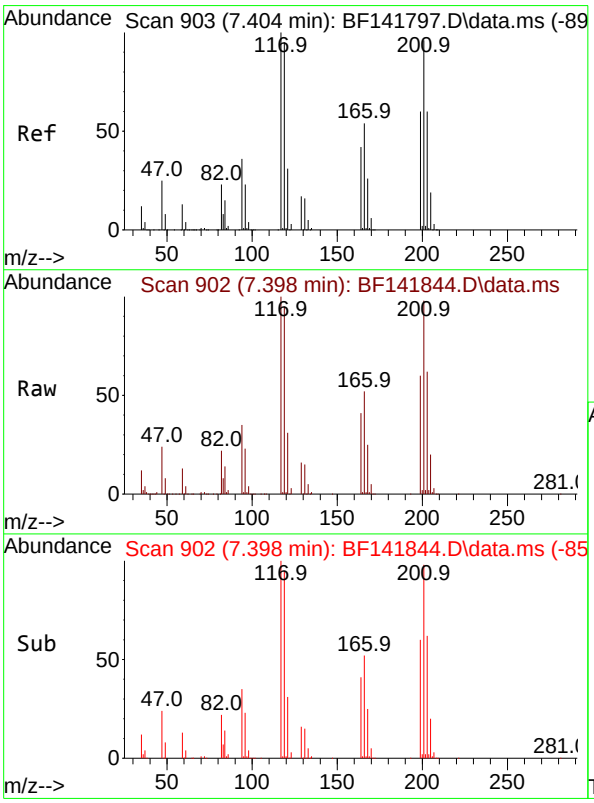


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

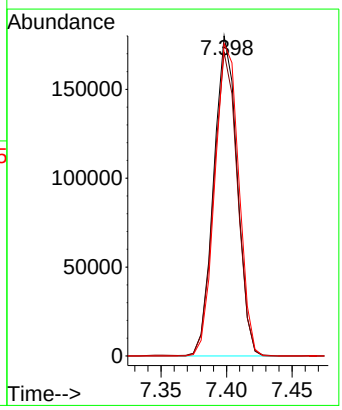
Supervised By :Jagrut Upadhyay
03/06/2025

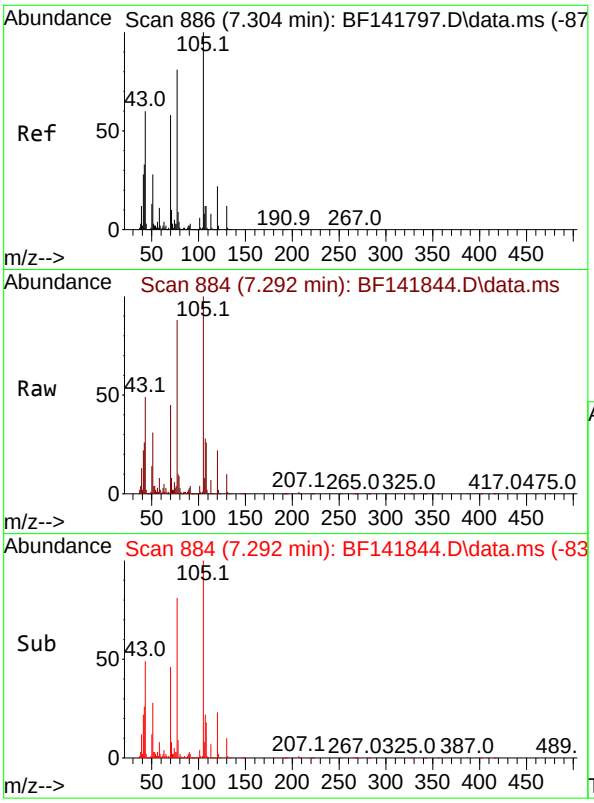


#18
Hexachloroethane
Concen: 42.419 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:117 Resp: 223054

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.8	113.8
201	97.6	76.7	115.1

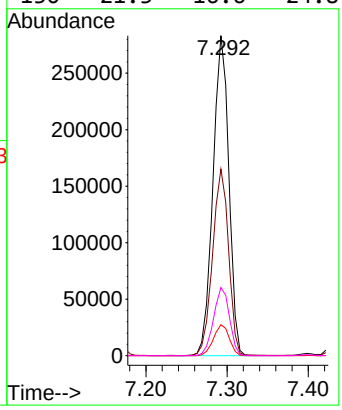




#19
n-Nitroso-di-n-propylamine
Concen: 37.380 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 70 Resp: 38494

Ion	Ratio	Lower	Upper
70	100		
42	58.3	45.4	68.0
101	9.7	7.8	11.8
130	21.3	16.6	24.8

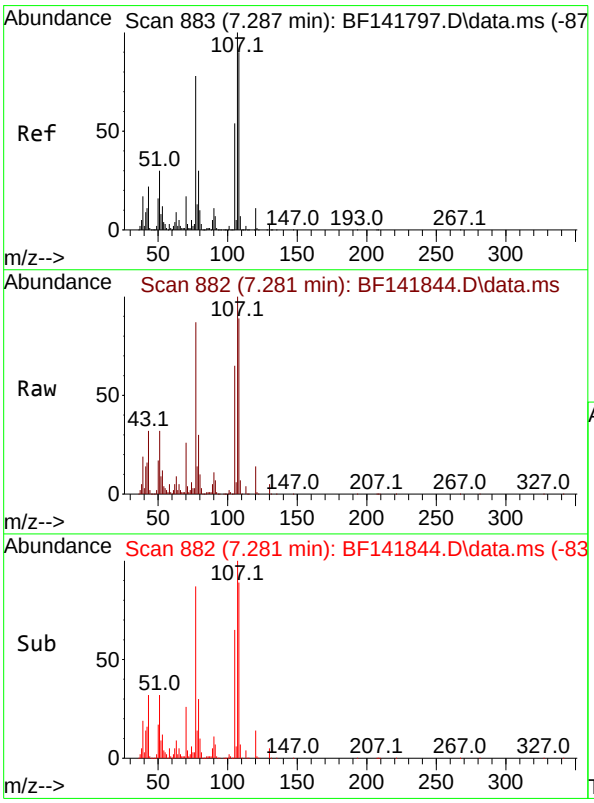


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

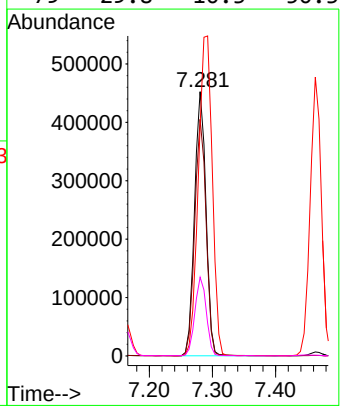
Supervised By :Jagrut Upadhyay
03/06/2025

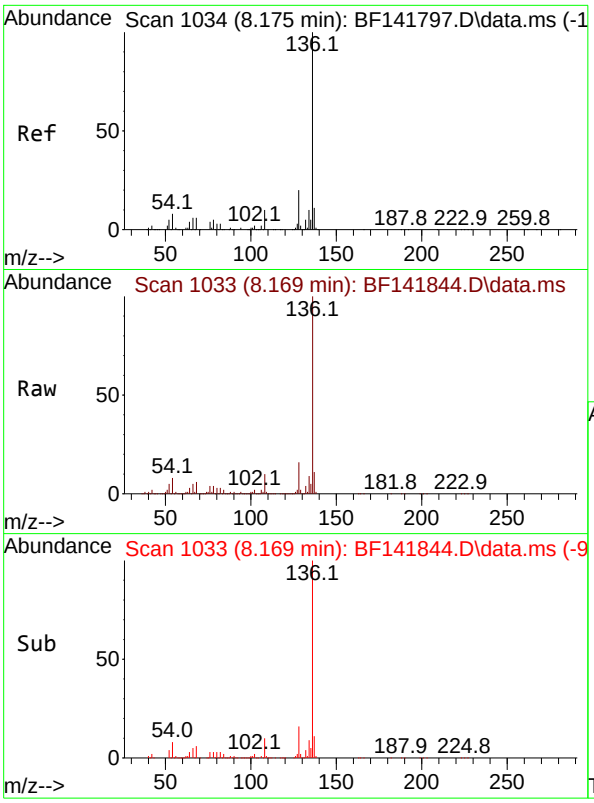


#20
3+4-Methylphenols
Concen: 42.489 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 568592

Ion	Ratio	Lower	Upper
107	100		
108	89.5	69.7	109.7
77	87.2	58.3	98.3
79	29.8	10.3	50.3

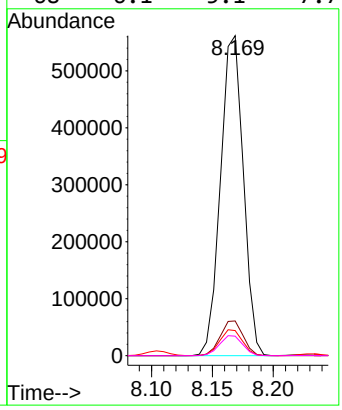




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

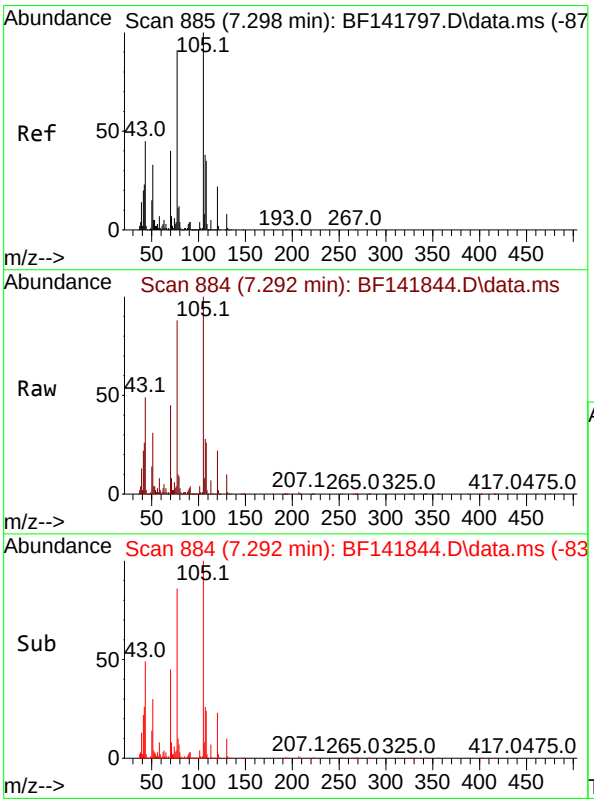
Tgt Ion:136 Resp: 73423

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	7.9	6.9	10.3
68	6.1	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

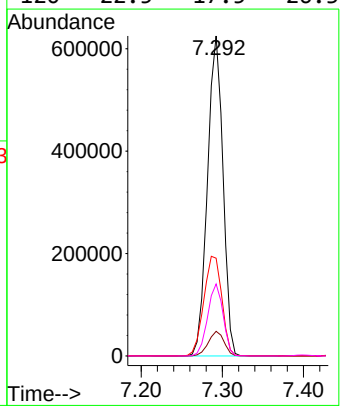
Manual Integrations APPROVED
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

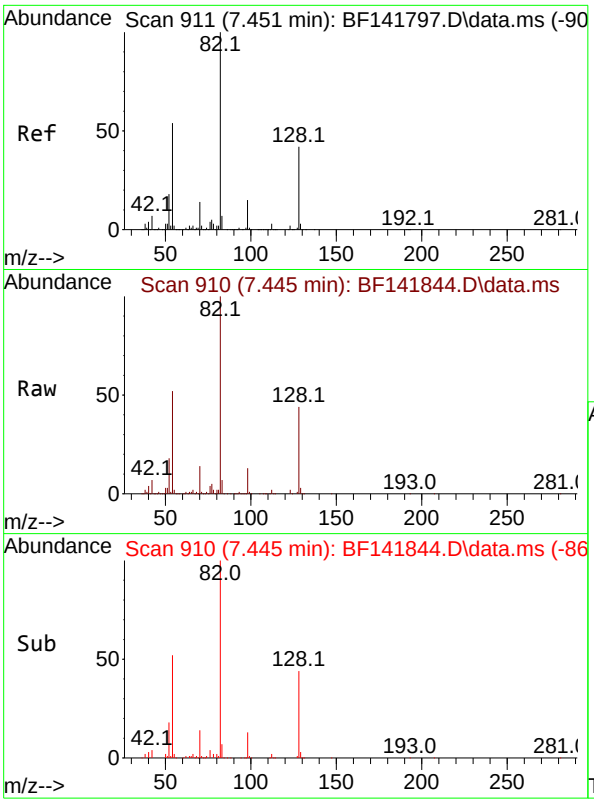


#22
Acetophenone
Concen: 46.254 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:105 Resp: 827134

Ion	Ratio	Lower	Upper
105	100		
71	7.7	5.4	8.0
51	30.6	26.1	39.1
120	22.5	17.5	26.3

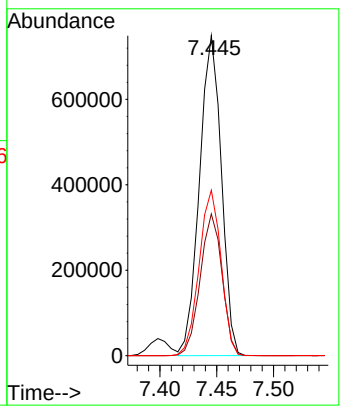




#23
Nitrobenzene-d5
Concen: 87.407 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 82 Resp: 100401

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.5	50.3
54	51.7	42.7	64.1

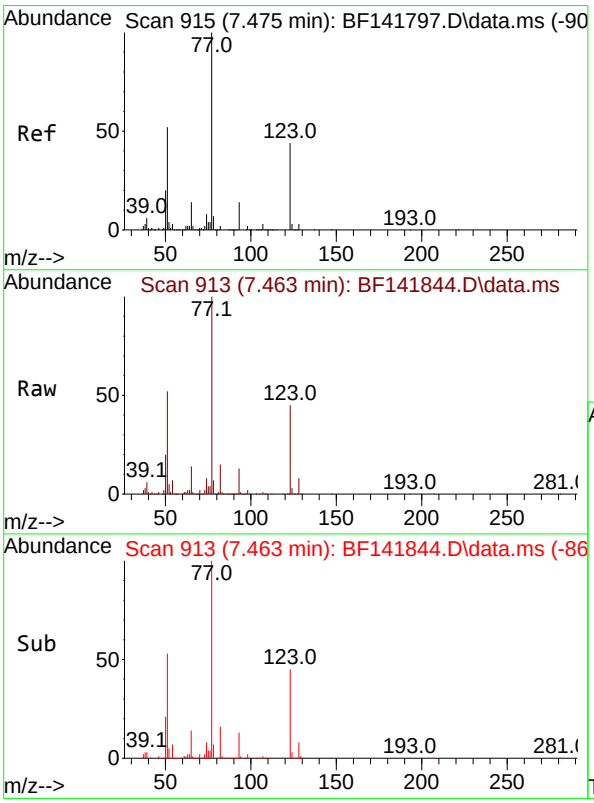


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

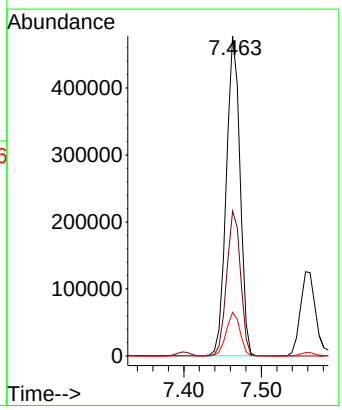
Supervised By :Jagrut Upadhyay
03/06/2025

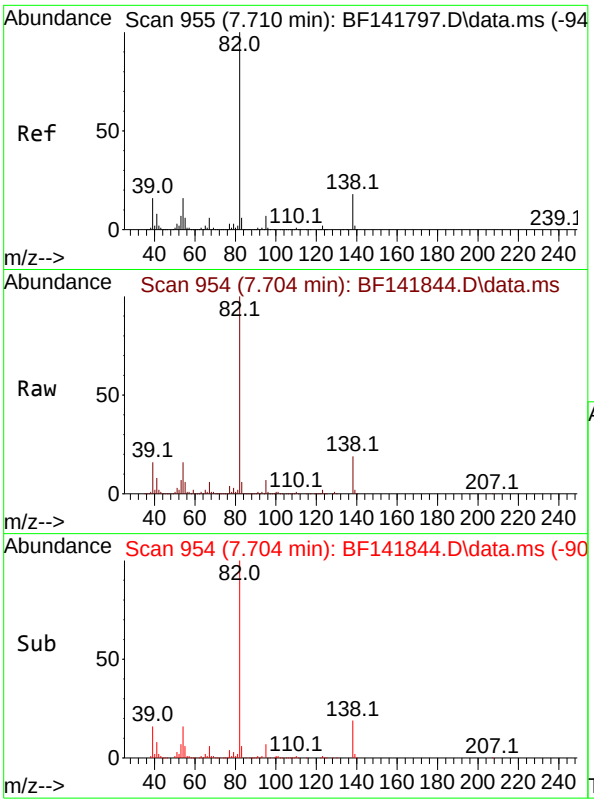


#24
Nitrobenzene
Concen: 47.838 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 588435

Ion	Ratio	Lower	Upper
77	100		
123	45.3	35.8	53.8
65	13.6	11.2	16.8

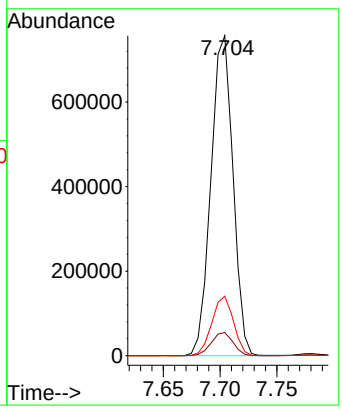




#25
Isophorone
Concen: 41.482 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 82 Resp: 102367

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.6	14.0	21.0

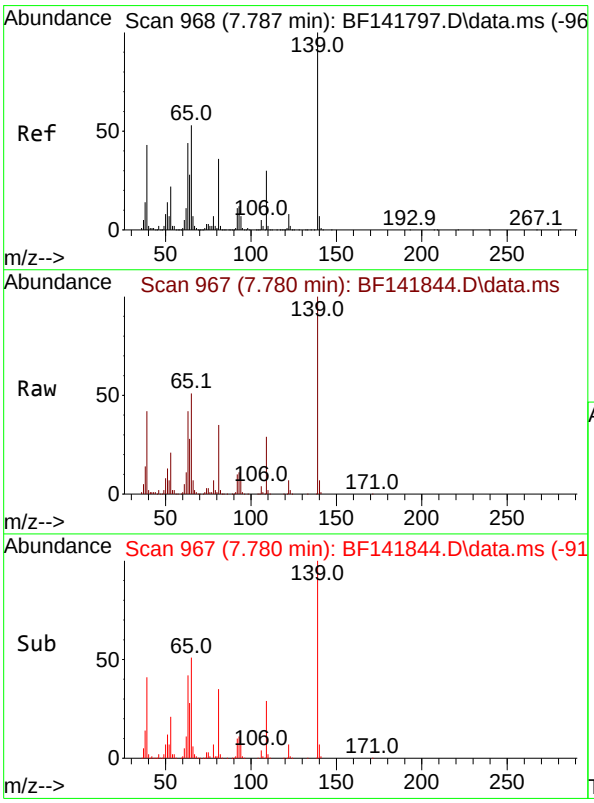


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

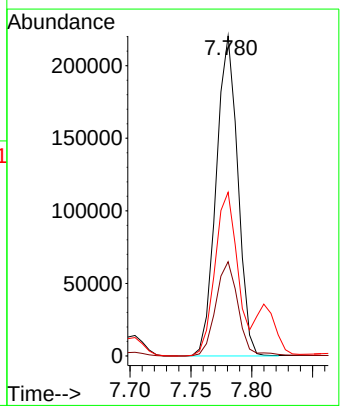
Supervised By :Jagrut Upadhyay
03/06/2025

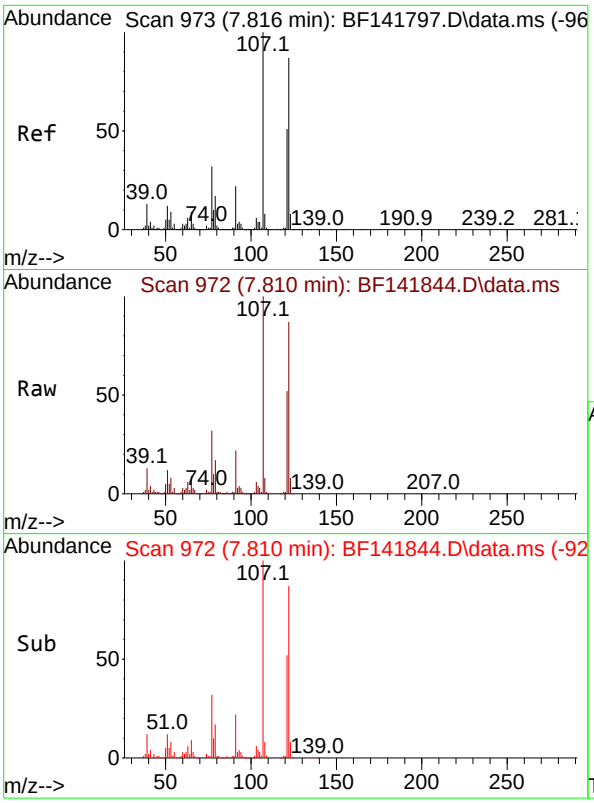


#26
2-Nitrophenol
Concen: 49.470 ng
RT: 7.780 min Scan# 967
Delta R.T. -0.007 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:139 Resp: 272681

Ion	Ratio	Lower	Upper
139	100		
109	29.5	24.1	36.1
65	51.2	42.3	63.5

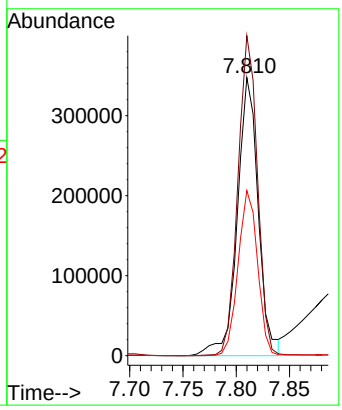




#27
2,4-Dimethylphenol
Concen: 52.462 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:122 Resp: 47590

Ion	Ratio	Lower	Upper
122	100		
107	115.1	92.5	138.7
121	59.4	47.1	70.7

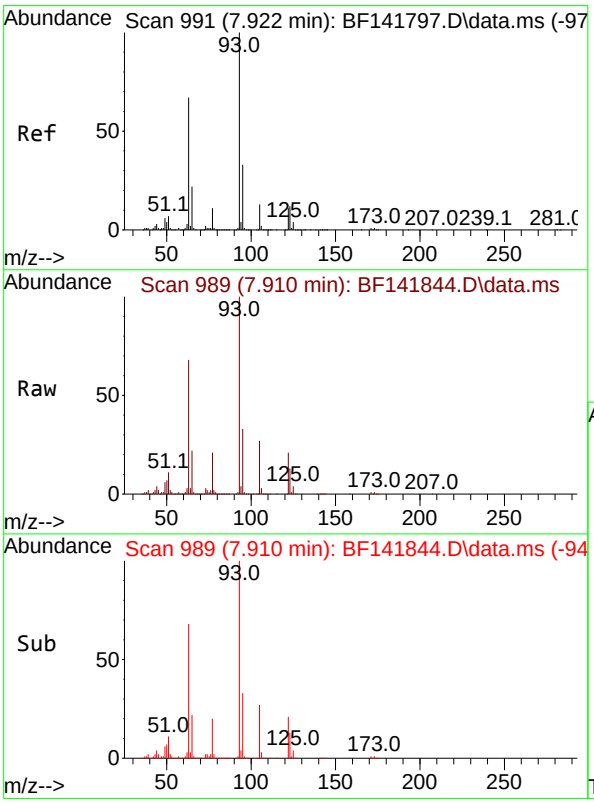


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

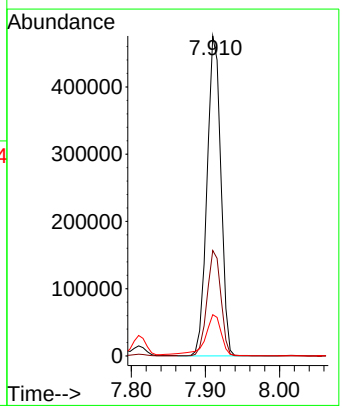
Supervised By :Jagrut Upadhyay
03/06/2025

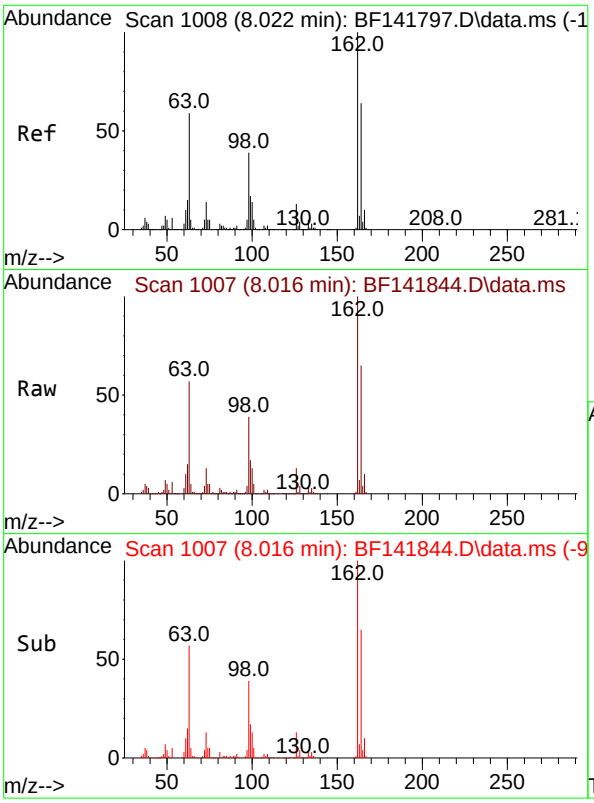


#28
bis(2-Chloroethoxy)methane
Concen: 39.071 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 93 Resp: 615055

Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.5	39.7
123	12.9	10.0	15.0

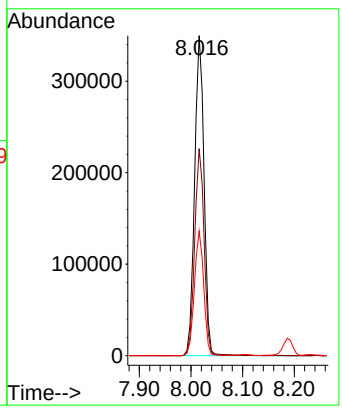




#29
2,4-Dichlorophenol
Concen: 42.337 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:162 Resp: 44305

Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	39.0	19.6	59.6

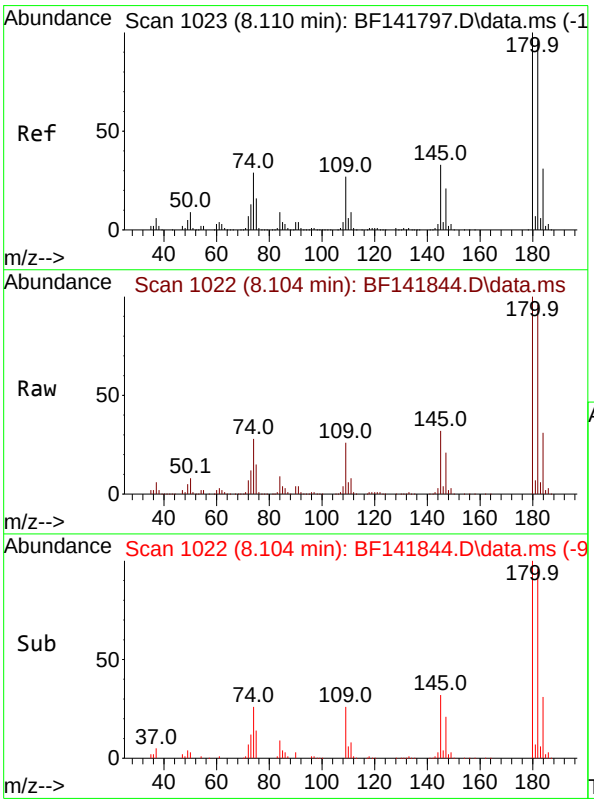


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

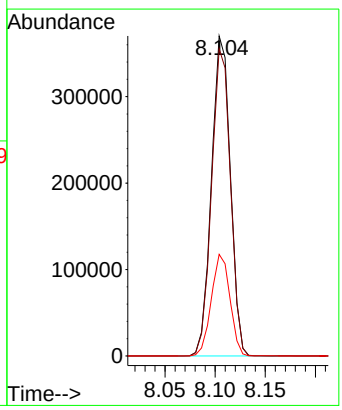
Supervised By :Jagrut Upadhyay
03/06/2025

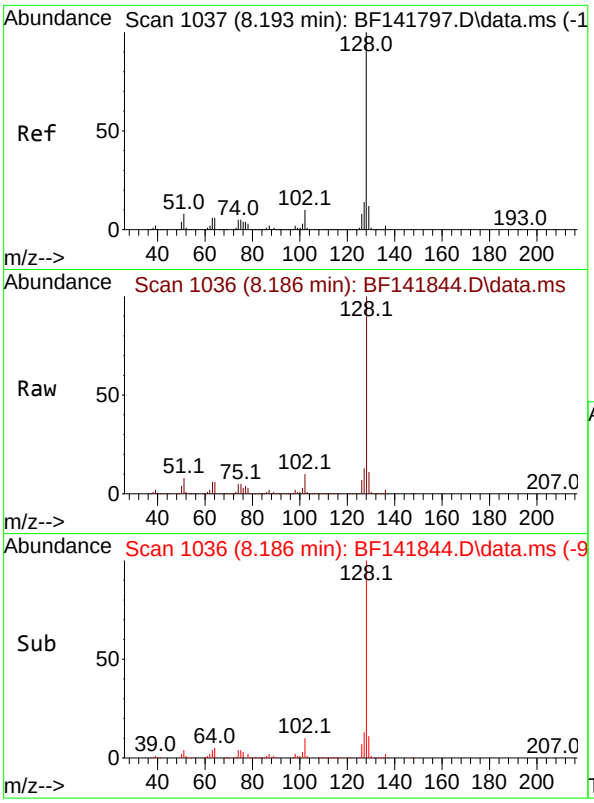


#30
1,2,4-Trichlorobenzene
Concen: 42.221 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:180 Resp: 484159

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	31.8	26.4	39.6

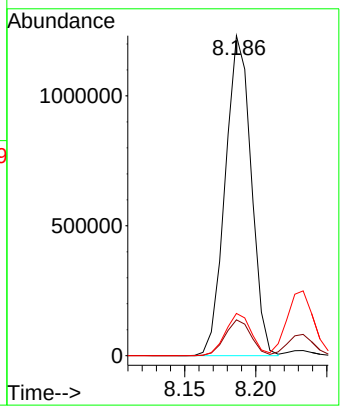




#31
Naphthalene
Concen: 41.484 ng
RT: 8.186 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:128 Resp: 156547(

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	11.0	16.4

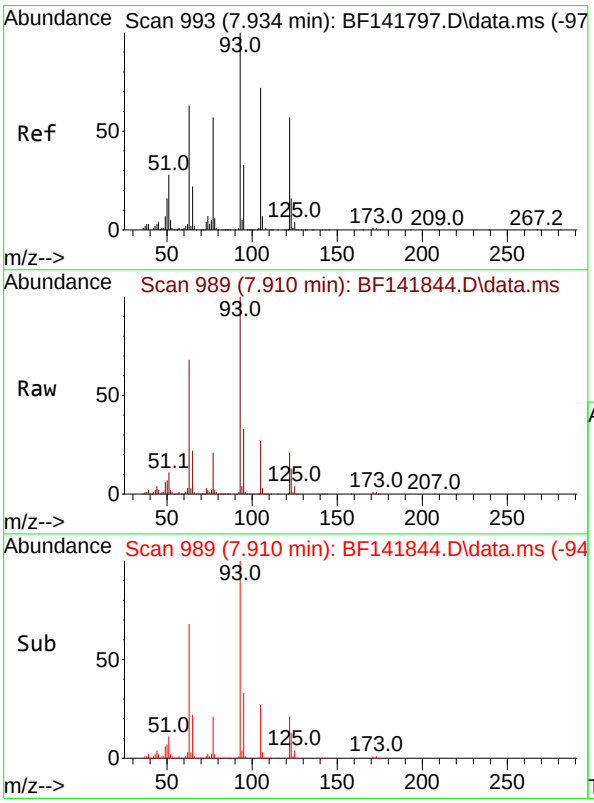


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

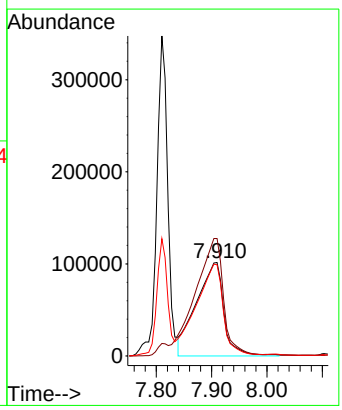
Supervised By :Jagrut Upadhyay
03/06/2025

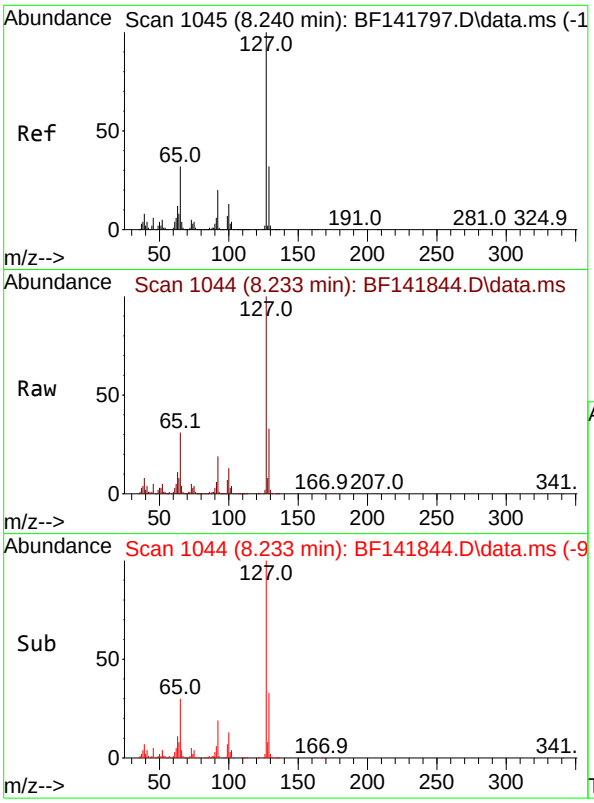


#32
Benzoic acid
Concen: 46.845 ng m
RT: 7.910 min Scan# 989
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:122 Resp: 353009

Ion	Ratio	Lower	Upper
122	100		
105	125.6	105.8	145.8
77	97.6	79.9	119.9

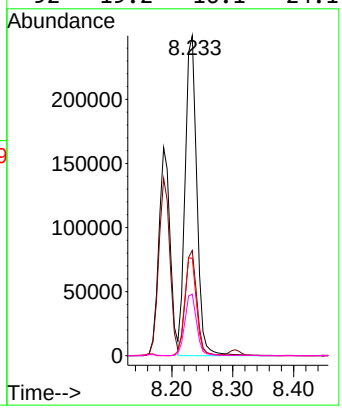




#33
4-Chloroaniline
Concen: 24.016 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:127 Resp: 33229

Ion	Ratio	Lower	Upper
127	100		
129	32.9	26.1	39.1
65	30.5	25.7	38.5
92	19.2	16.1	24.1

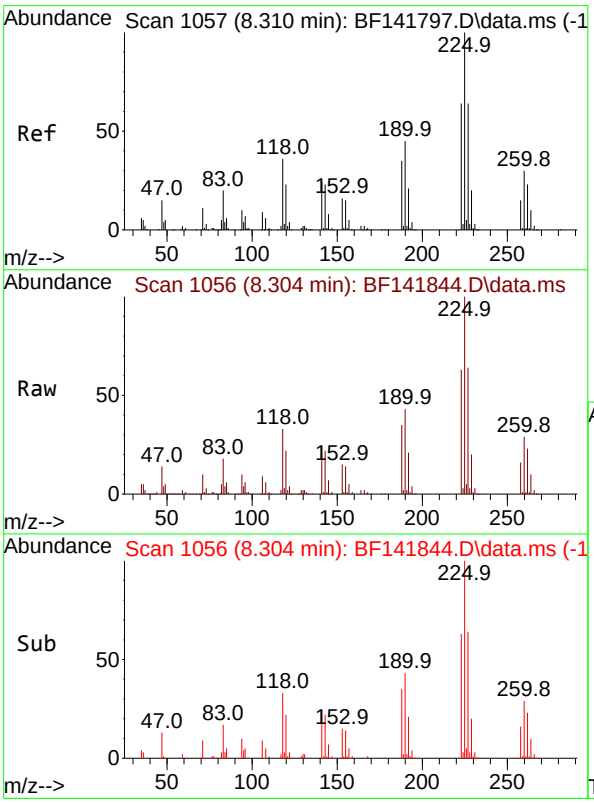


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

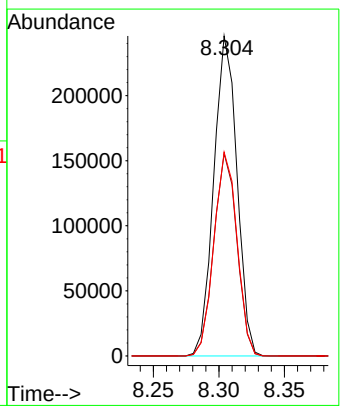
Supervised By :Jagrut Upadhyay
03/06/2025

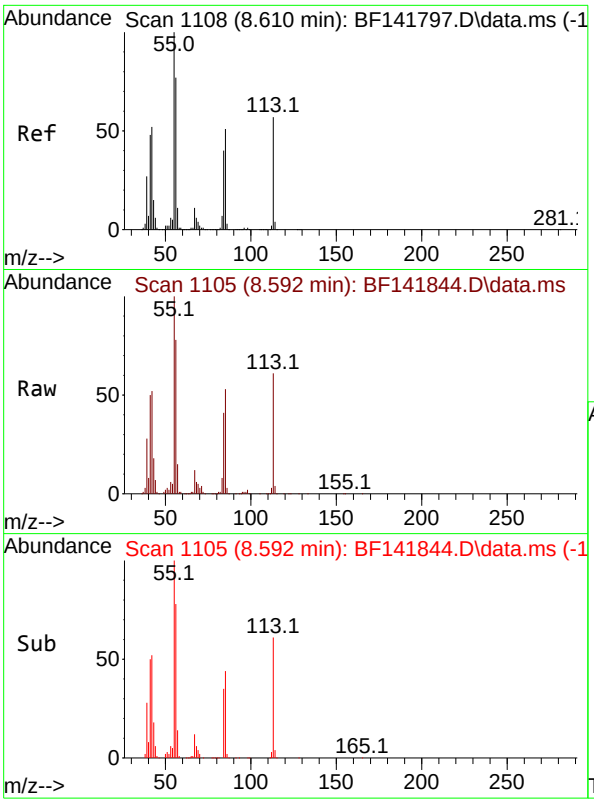


#34
Hexachlorobutadiene
Concen: 42.314 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:225 Resp: 301524

Ion	Ratio	Lower	Upper
225	100		
223	63.2	51.4	77.2
227	63.7	51.6	77.4

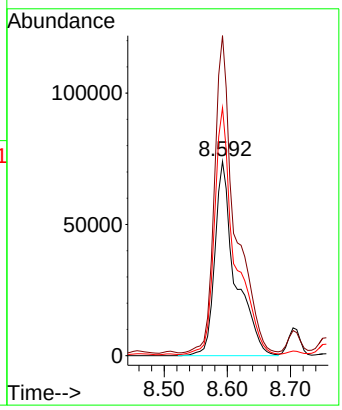




#35
Caprolactam
Concen: 51.511 ng
RT: 8.592 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:113 Resp: 16583

Ion	Ratio	Lower	Upper
113	100		
55	164.7	155.6	195.6
56	127.6	114.6	154.6

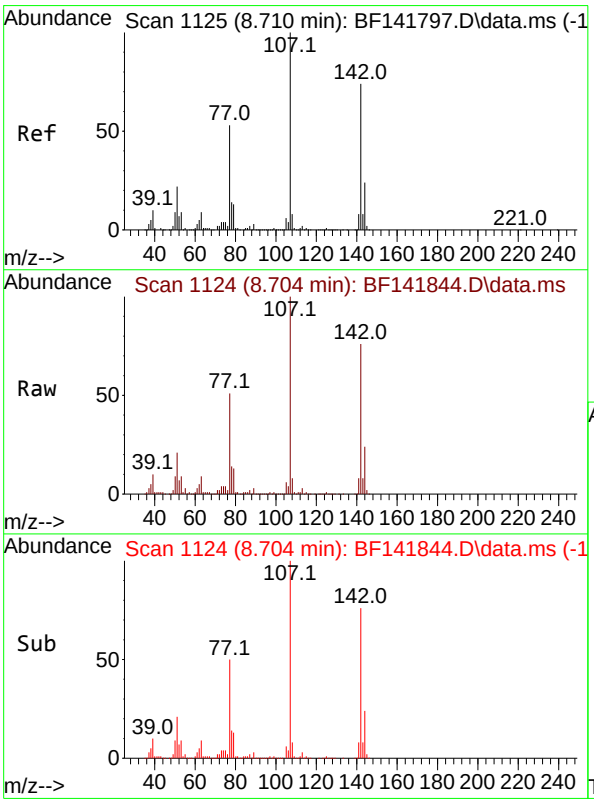


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

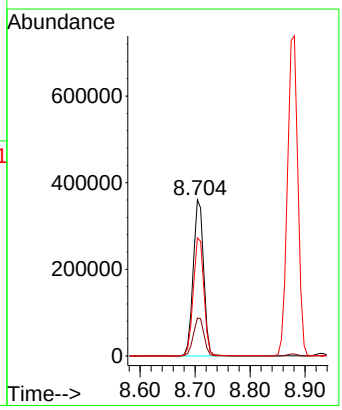
Supervised By :Jagrut Upadhyay
03/06/2025

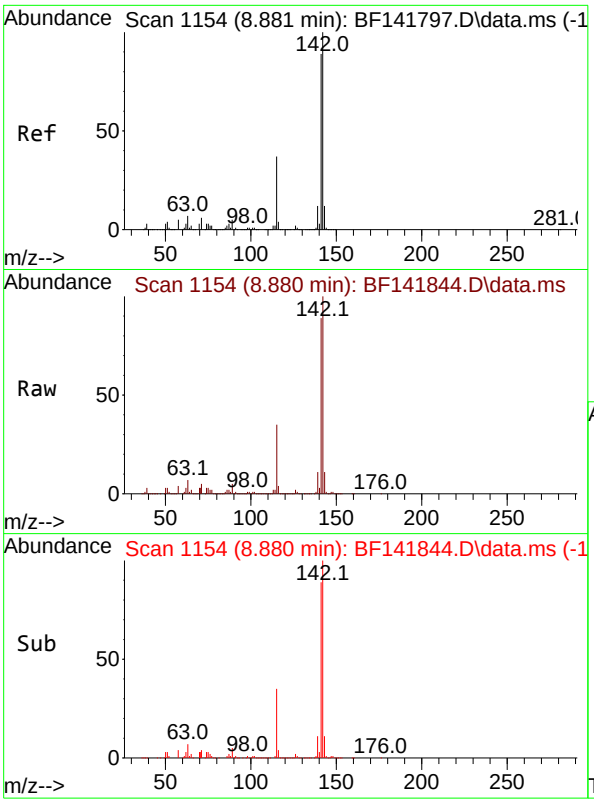


#36
4-Chloro-3-methylphenol
Concen: 41.065 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:107 Resp: 477385

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.4	29.0
142	75.6	59.4	89.0

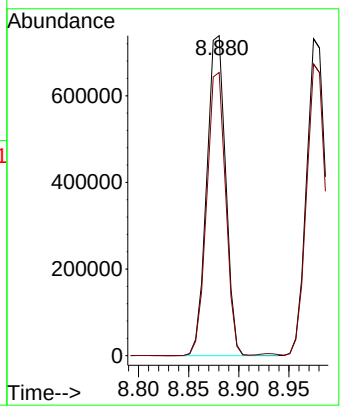




#37
2-Methylnaphthalene
Concen: 39.255 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:142 Resp: 97164

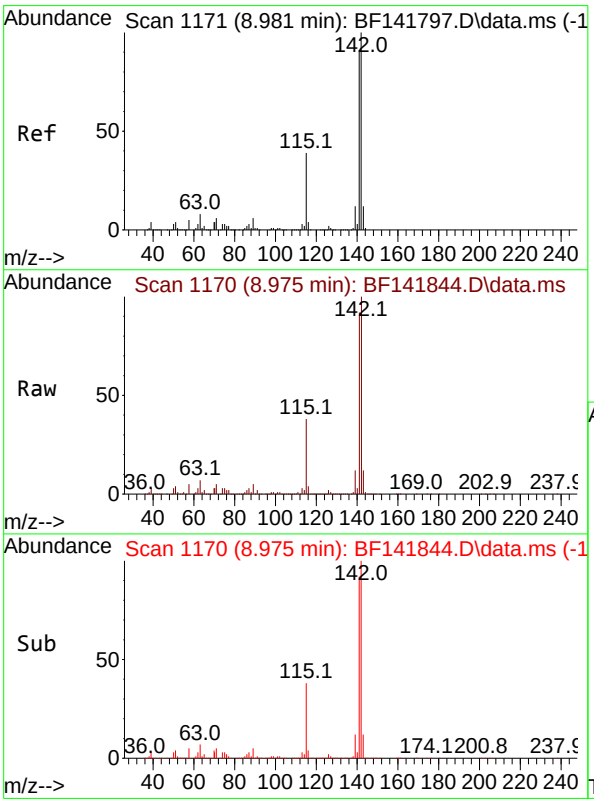
Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

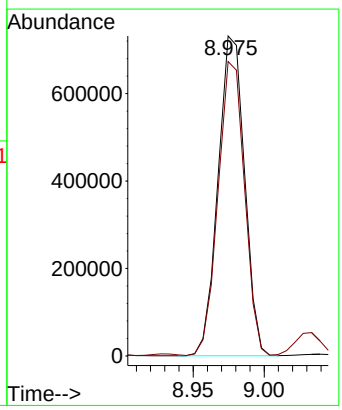
Reviewed By :Anahy Claudio
03/06/2025
Supervised By :Jagrut Upadhyay
03/06/2025

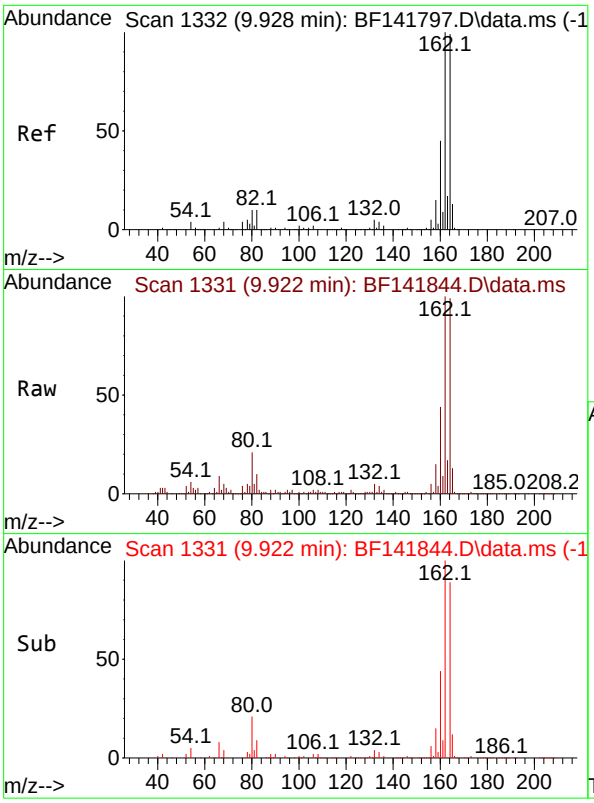


#38
1-Methylnaphthalene
Concen: 39.973 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:142 Resp: 949369

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.1	109.7

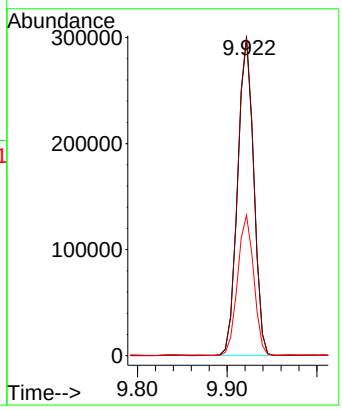




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:164 Resp: 37002

Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.6	120.8
160	44.3	36.3	54.5

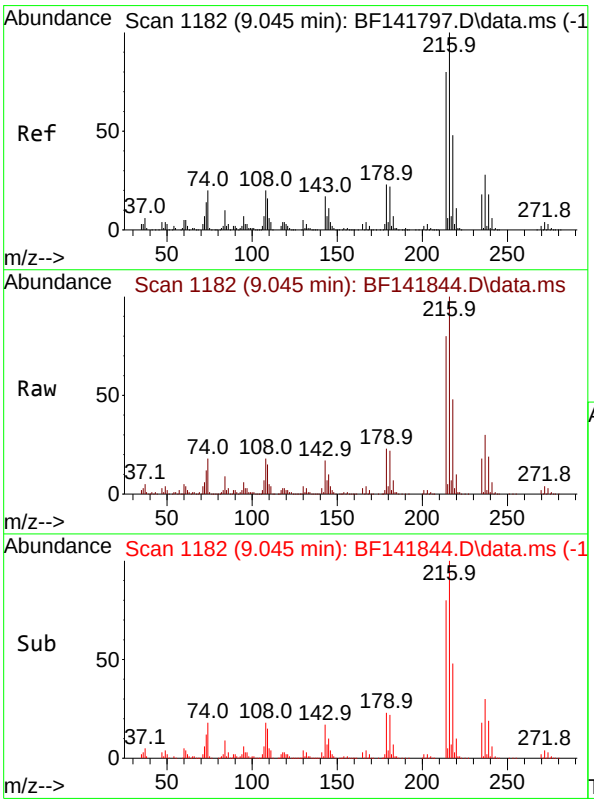


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

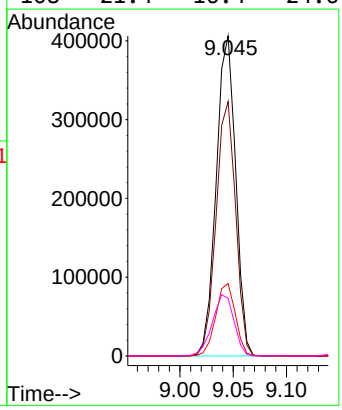
Supervised By :Jagrut Upadhyay
03/06/2025

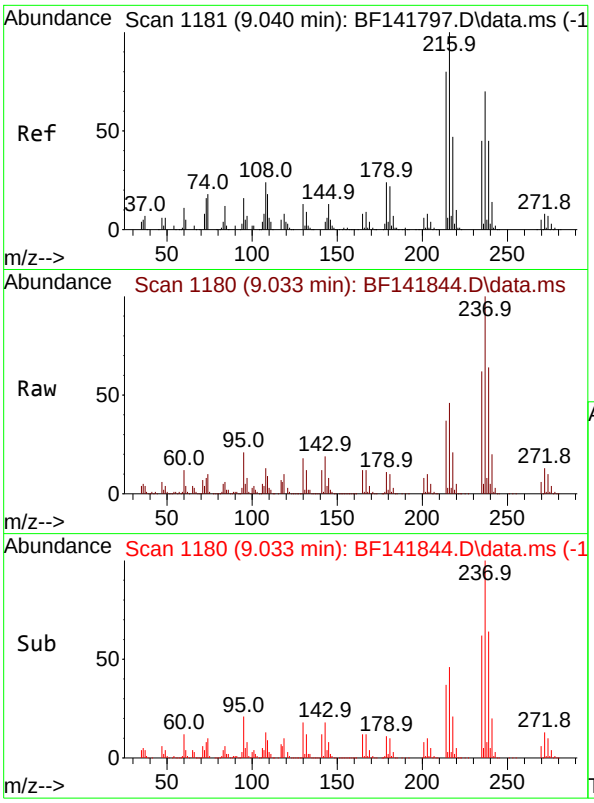


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.211 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:216 Resp: 515221

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.5	95.3
179	23.0	18.1	27.1
108	21.4	16.4	24.6

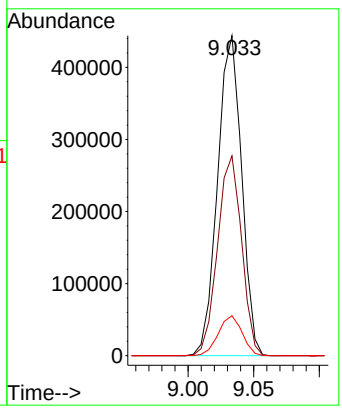




#41
Hexachlorocyclopentadiene
Concen: 126.697 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:237 Resp: 56505

Ion	Ratio	Lower	Upper
237	100		
235	62.5	43.3	83.3
272	12.5	0.0	31.9

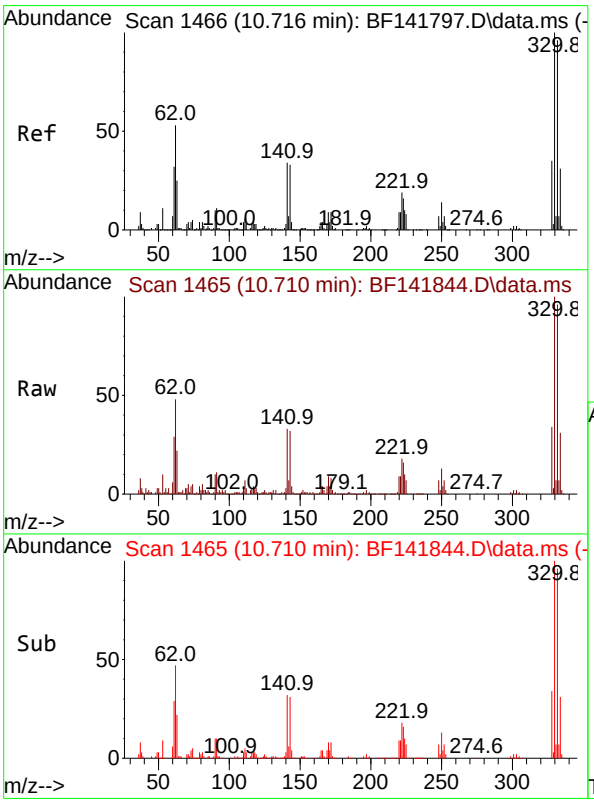


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

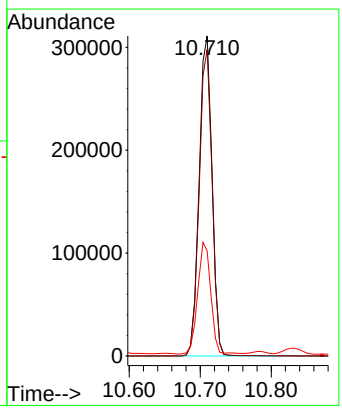
Supervised By :Jagrut Upadhyay
03/06/2025

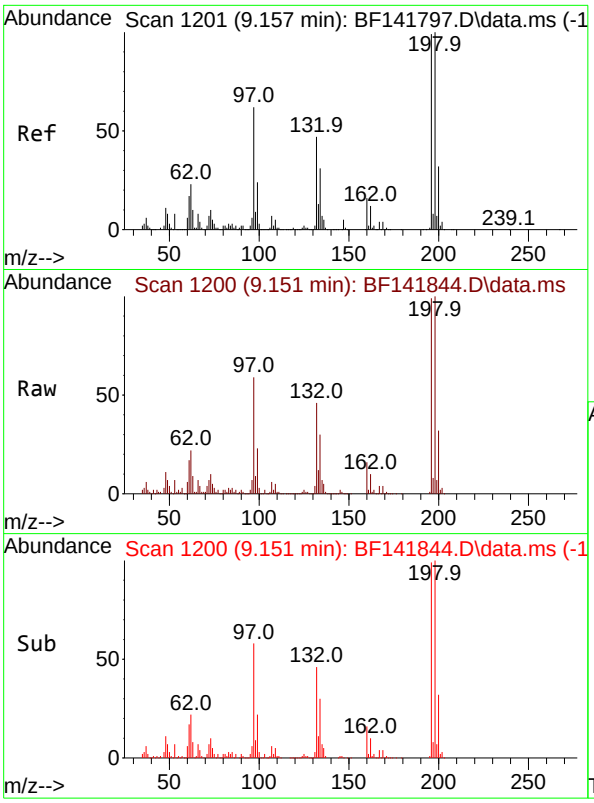


#42
2,4,6-Tribromophenol
Concen: 113.326 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:330 Resp: 393680

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.6	115.0
141	35.4	29.0	43.4

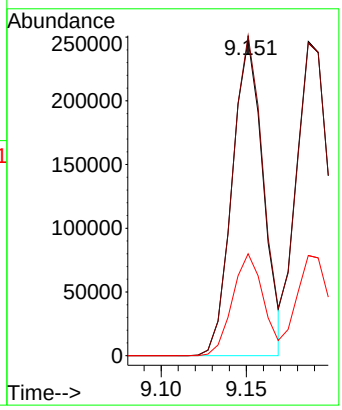




#43
2,4,6-Trichlorophenol
Concen: 45.449 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:196 Resp: 31374

Ion	Ratio	Lower	Upper
196	100		
198	101.4	80.4	120.6
200	32.3	25.7	38.5

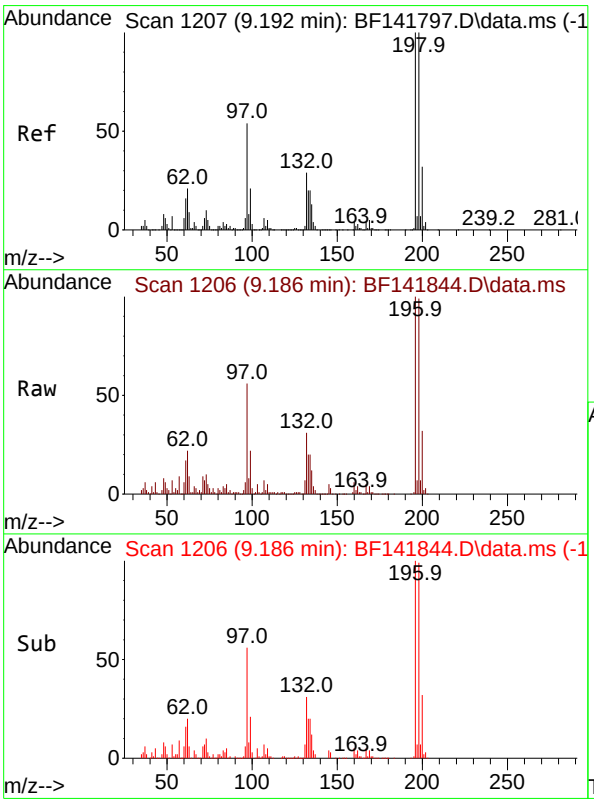


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

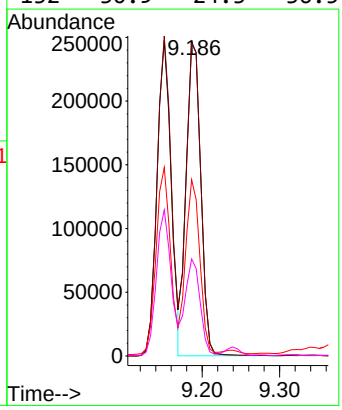
Supervised By :Jagrut Upadhyay
03/06/2025

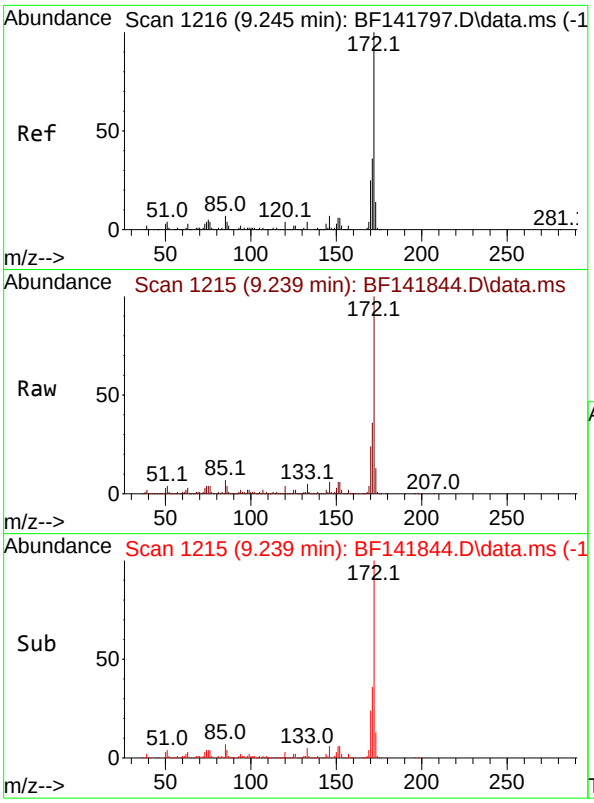


#44
2,4,5-Trichlorophenol
Concen: 47.324 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:196 Resp: 323494

Ion	Ratio	Lower	Upper
196	100		
198	99.5	79.7	119.5
97	56.1	44.2	66.2
132	30.9	24.3	36.5

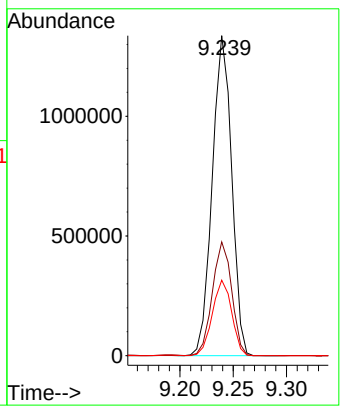




#45
2-Fluorobiphenyl
Concen: 73.287 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:172 Resp: 169123

Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.6	19.7	29.5

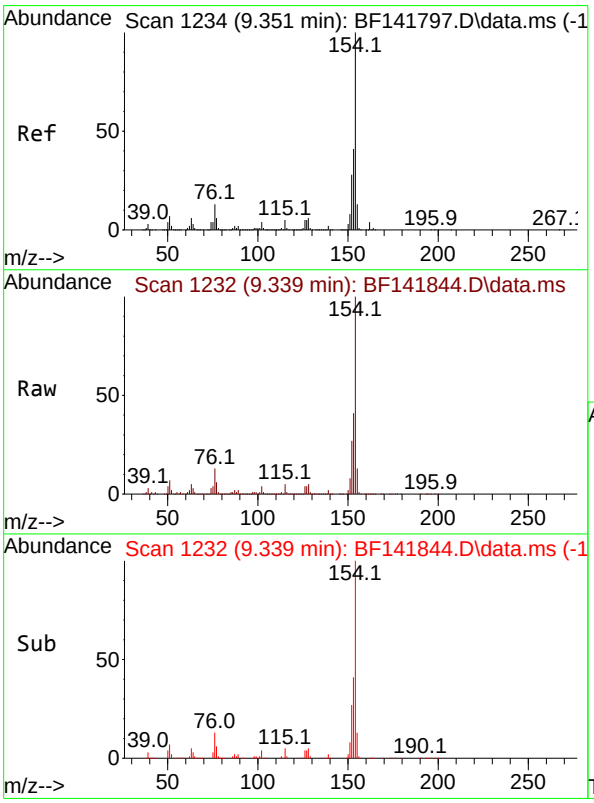


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

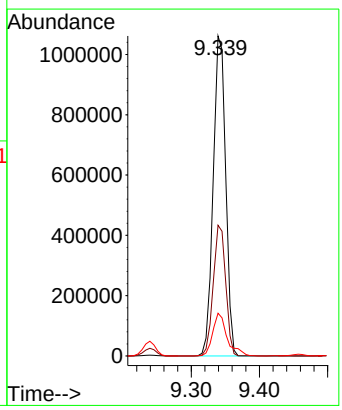
Supervised By :Jagrut Upadhyay
03/06/2025

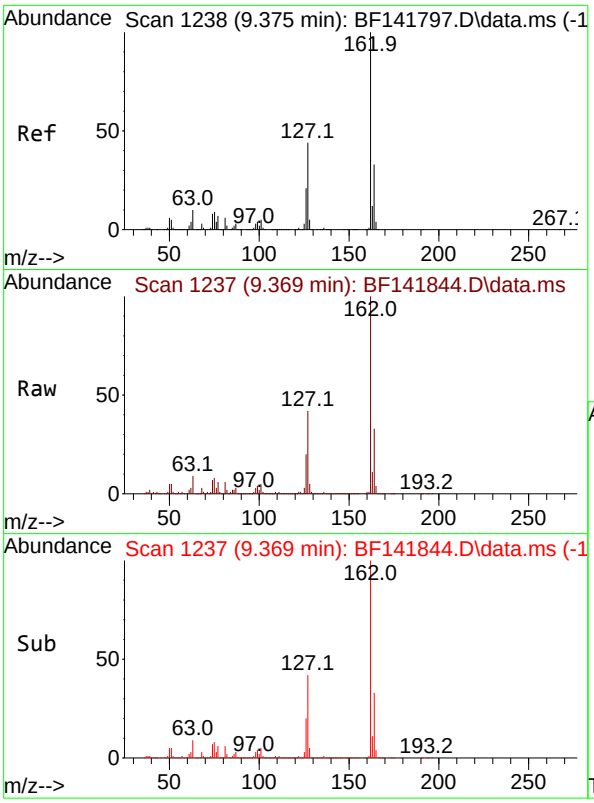


#46
1,1'-Biphenyl
Concen: 48.058 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:154 Resp: 1353556

Ion	Ratio	Lower	Upper
154	100		
153	40.8	21.4	61.4
76	13.3	0.0	33.4

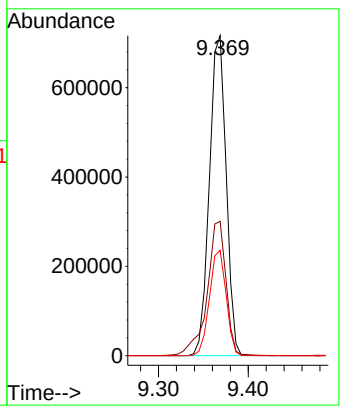




#47
2-Chloronaphthalene
Concen: 44.688 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:162 Resp: 92897

Ion	Ratio	Lower	Upper
162	100		
127	42.0	35.0	52.6
164	32.9	26.6	40.0

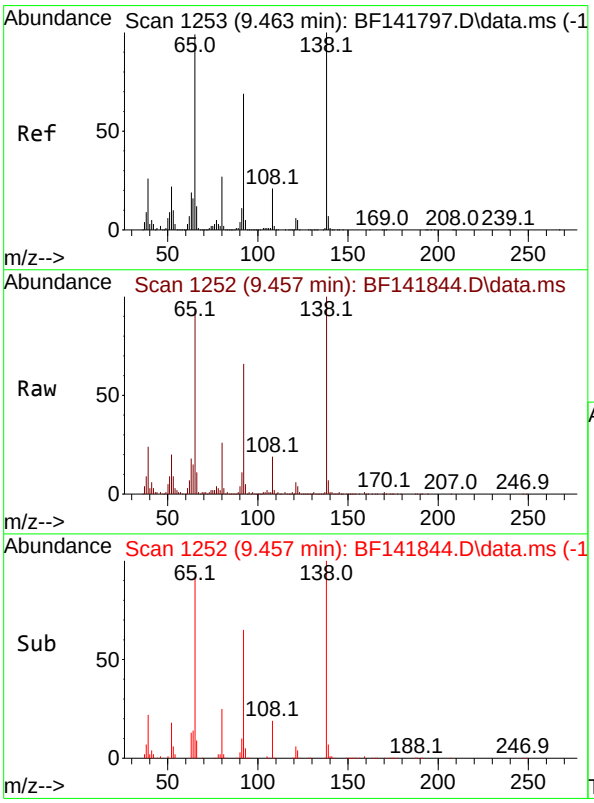


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

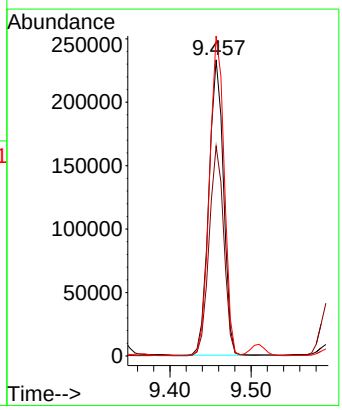
Supervised By :Jagrut Upadhyay
03/06/2025

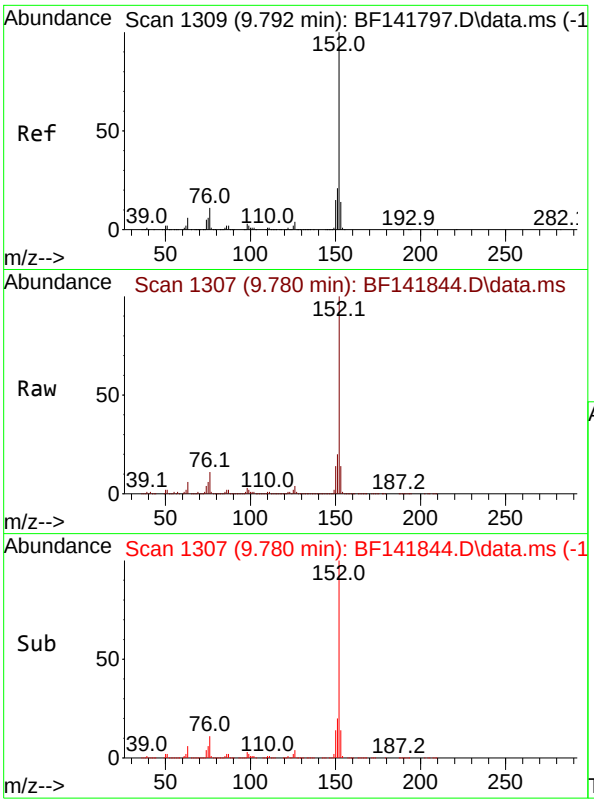


#48
2-Nitroaniline
Concen: 50.994 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 65 Resp: 291855

Ion	Ratio	Lower	Upper
65	100		
92	70.8	55.7	83.5
138	108.0	80.6	121.0

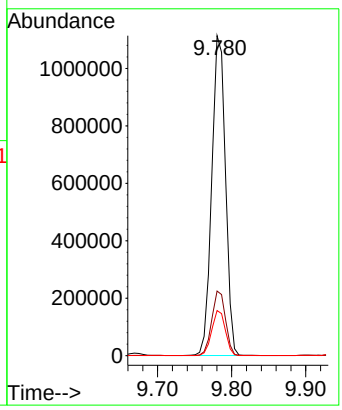




#49
Acenaphthylene
Concen: 45.995 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:152 Resp: 143353

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	14.1	11.2	16.8

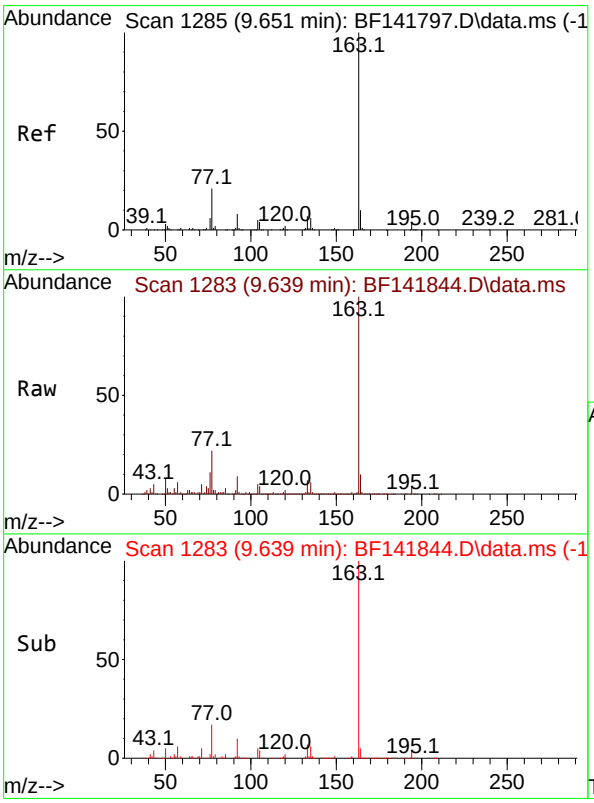


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

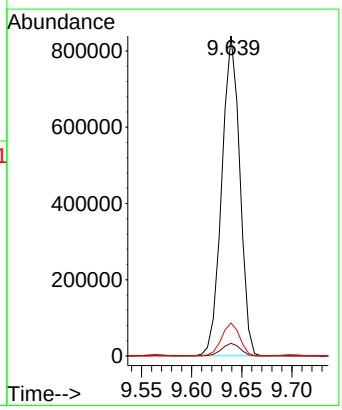
Supervised By :Jagrut Upadhyay
03/06/2025

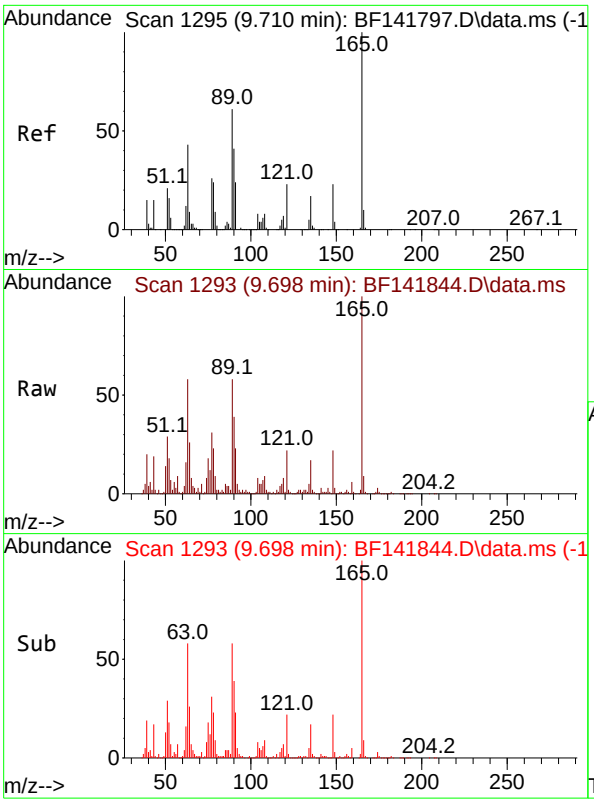


#50
Dimethylphthalate
Concen: 42.329 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:163 Resp: 1048895

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.4	12.6

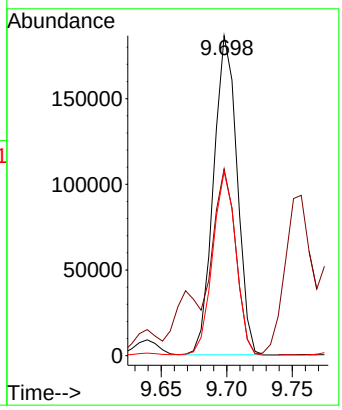




#51
2,6-Dinitrotoluene
Concen: 48.952 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:165 Resp: 23233

Ion	Ratio	Lower	Upper
165	100		
63	58.4	49.5	74.3
89	57.5	49.0	73.4

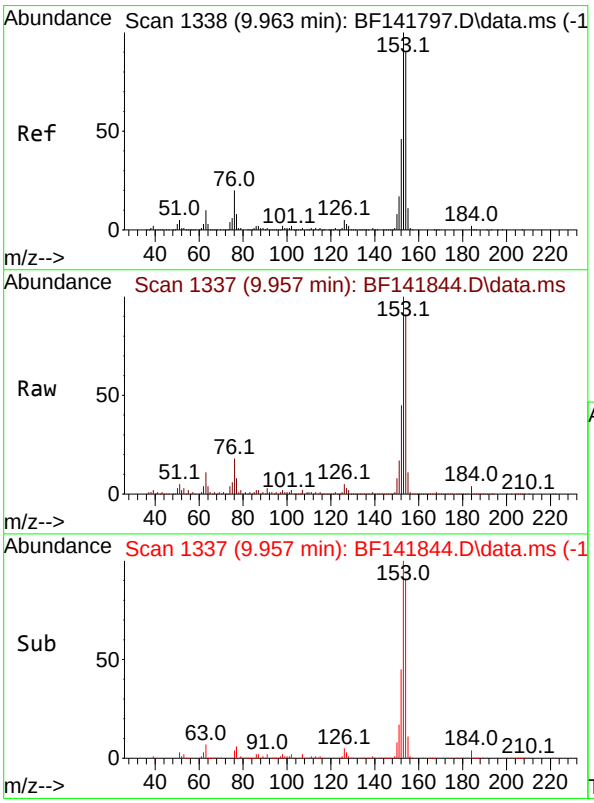


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

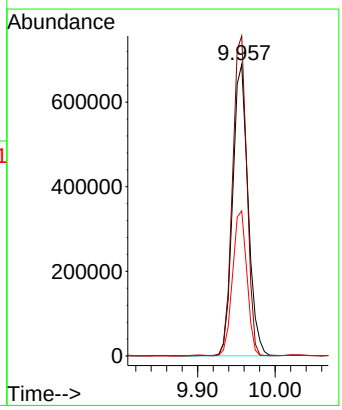
Supervised By :Jagrut Upadhyay
03/06/2025

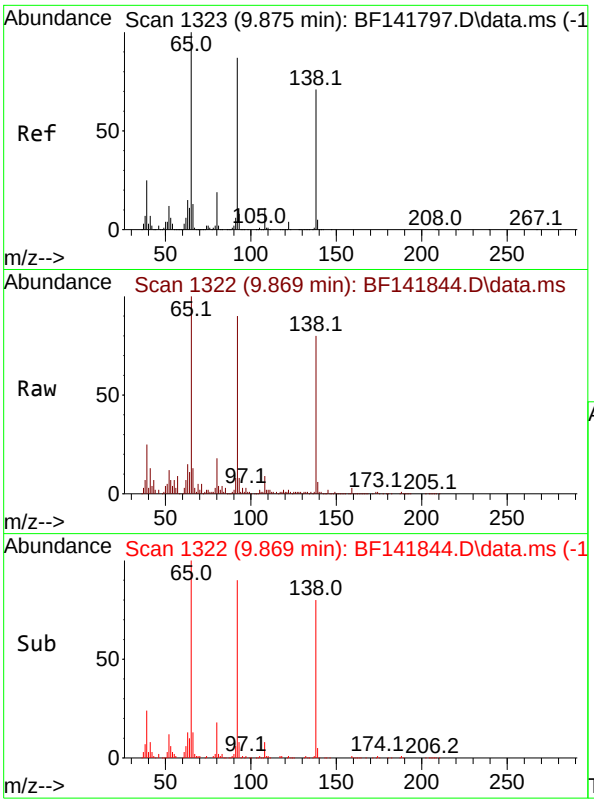


#52
Acenaphthene
Concen: 45.394 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:154 Resp: 954639

Ion	Ratio	Lower	Upper
154	100		
153	109.8	88.7	133.1
152	49.8	40.9	61.3

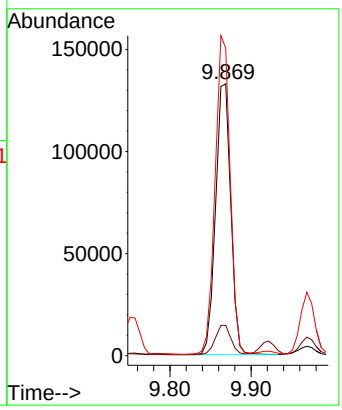




#53
3-Nitroaniline
Concen: 35.128 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:138 Resp: 17309

Ion	Ratio	Lower	Upper
138	100		
108	11.1	12.7	19.1#
92	113.1	97.9	146.9

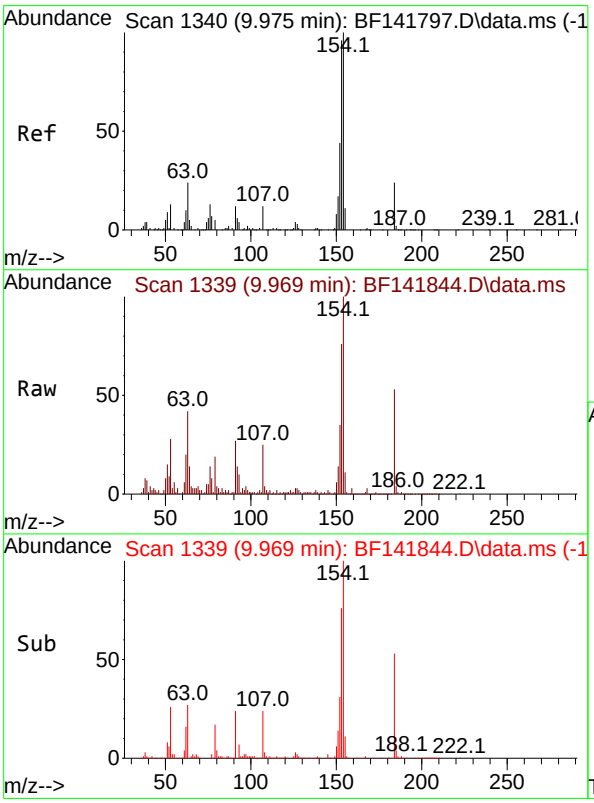


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

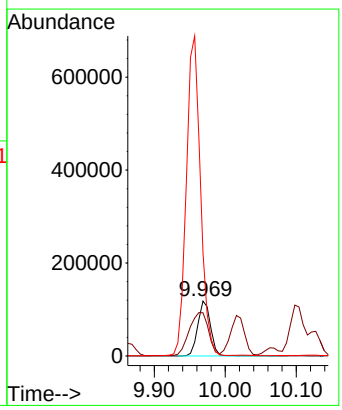
Supervised By :Jagrut Upadhyay
03/06/2025

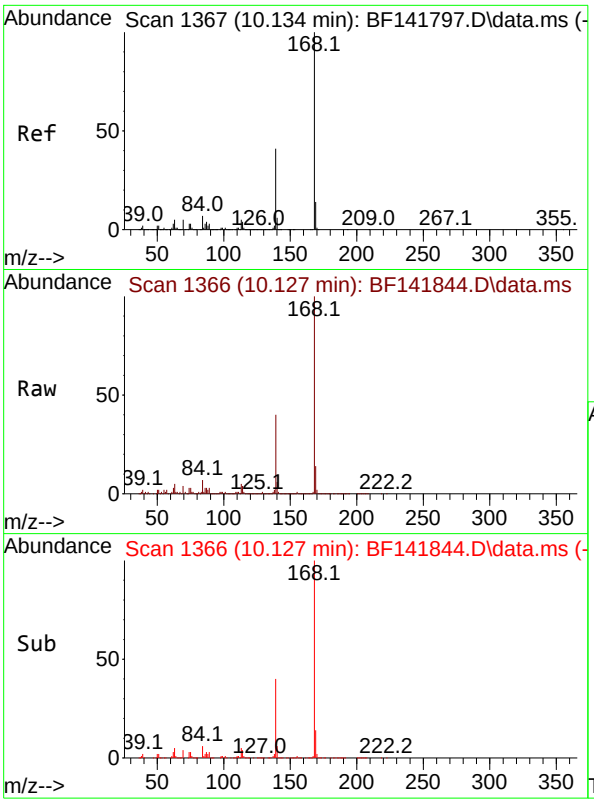


#54
2,4-Dinitrophenol
Concen: 70.645 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:184 Resp: 147123

Ion	Ratio	Lower	Upper
184	100		
63	78.7	79.0	118.6#
154	187.9	335.8	503.8#

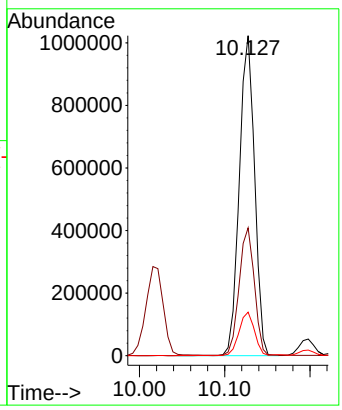




#55
Dibenzofuran
Concen: 41.477 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:168 Resp: 126959

Ion	Ratio	Lower	Upper
168	100		
139	39.9	32.9	49.3
169	13.6	11.1	16.7

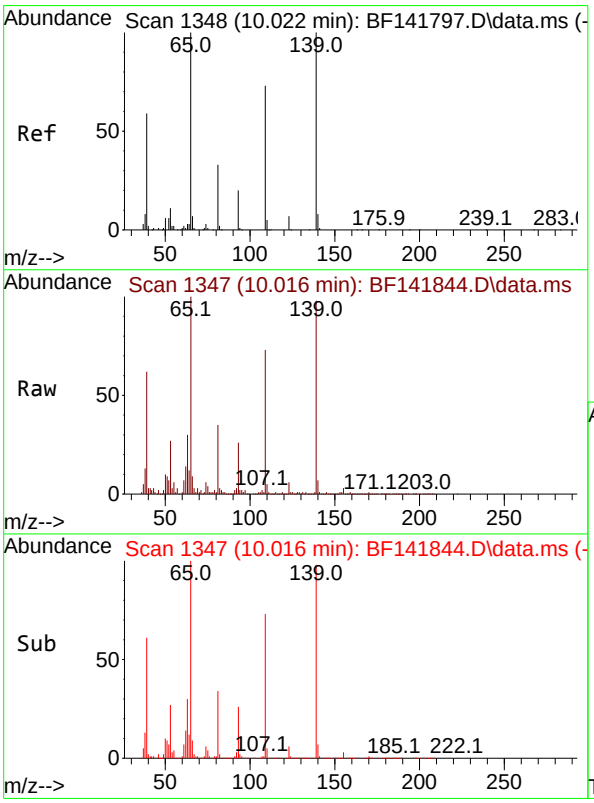


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

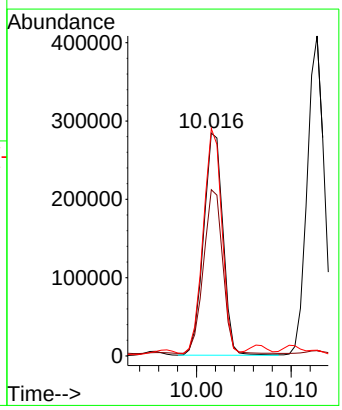
Supervised By :Jagrut Upadhyay
03/06/2025

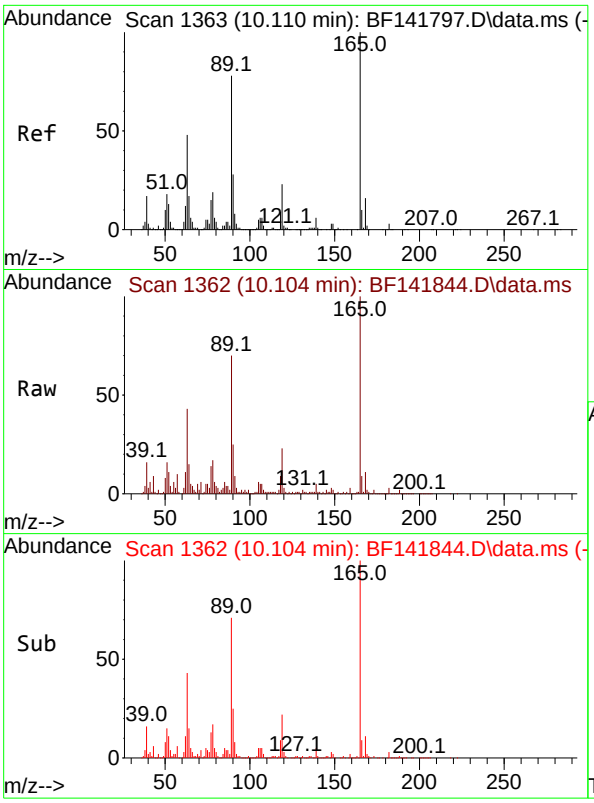


#56
4-Nitrophenol
Concen: 109.840 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:139 Resp: 401998

Ion	Ratio	Lower	Upper
139	100		
109	74.6	53.4	93.4
65	102.0	82.1	122.1

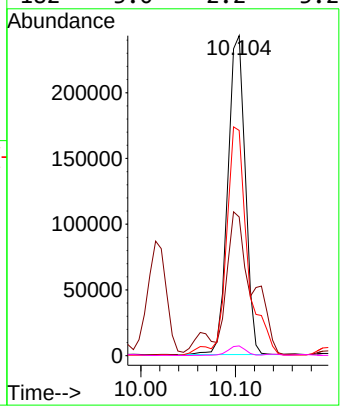




#57
2,4-Dinitrotoluene
Concen: 53.198 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:165 Resp: 31041

Ion	Ratio	Lower	Upper
165	100		
63	43.4	38.8	58.2
89	70.4	62.6	94.0
182	3.0	2.2	3.2

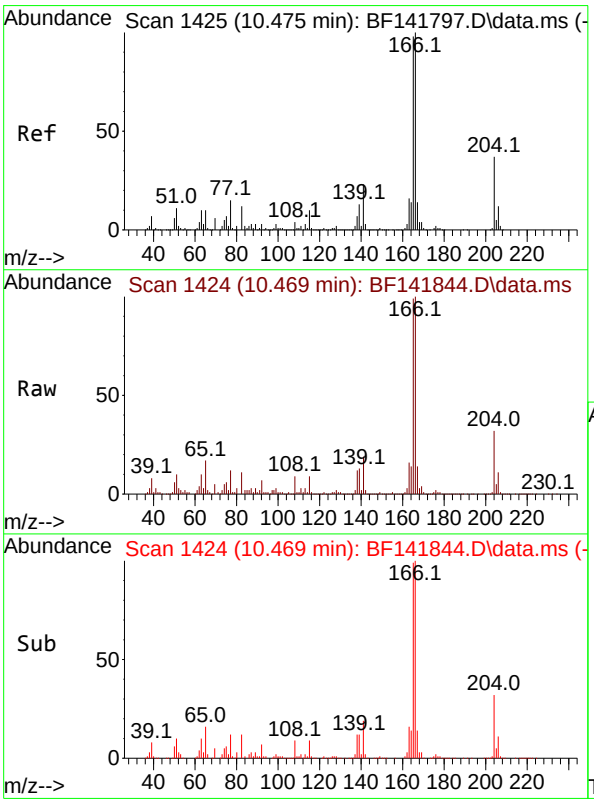


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

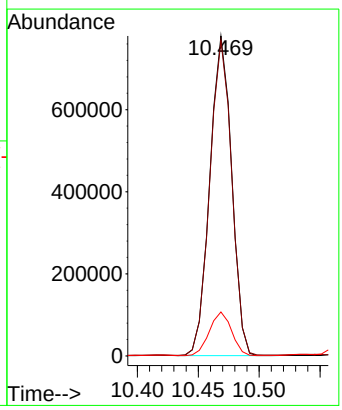
Supervised By :Jagrut Upadhyay
03/06/2025

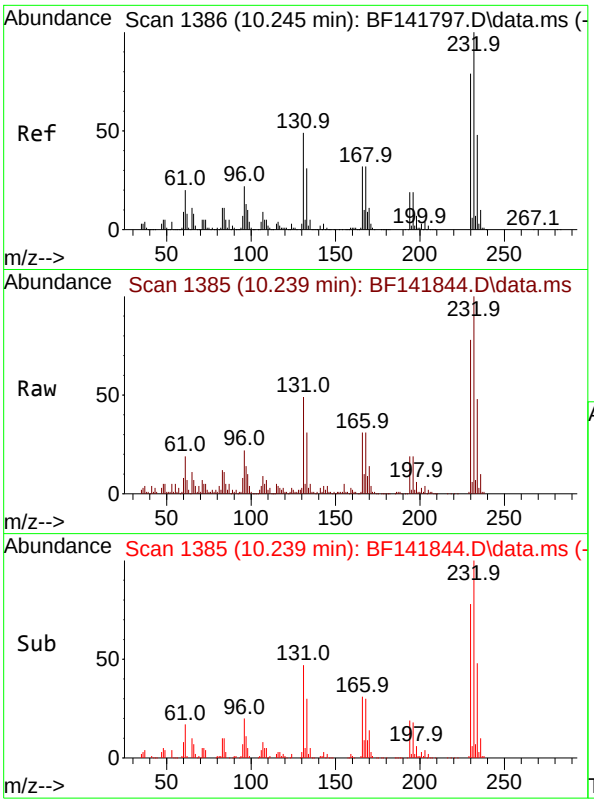


#58
Fluorene
Concen: 42.361 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:166 Resp: 971273

Ion	Ratio	Lower	Upper
166	100		
165	98.6	78.6	117.8
167	13.7	11.0	16.4

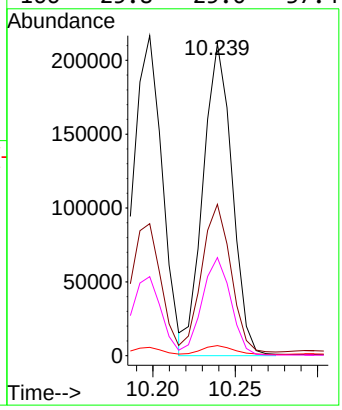




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.653 ng m
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:232 Resp: 25952

Ion	Ratio	Lower	Upper
232	100		
131	42.9	37.8	56.8
130	2.5	2.0	3.0
166	25.8	25.0	37.4

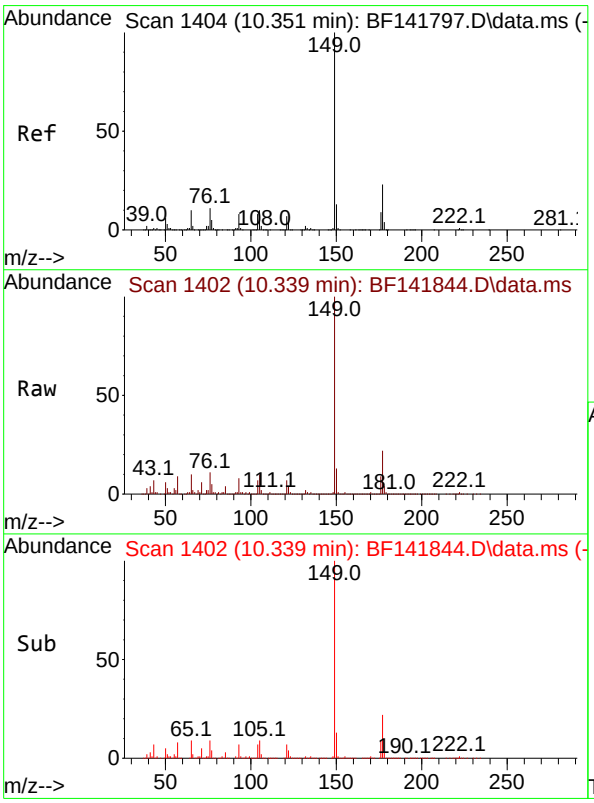


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

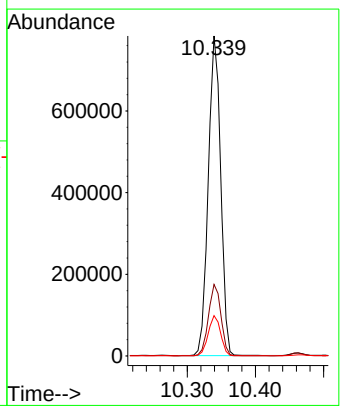
Supervised By :Jagrut Upadhyay
03/06/2025

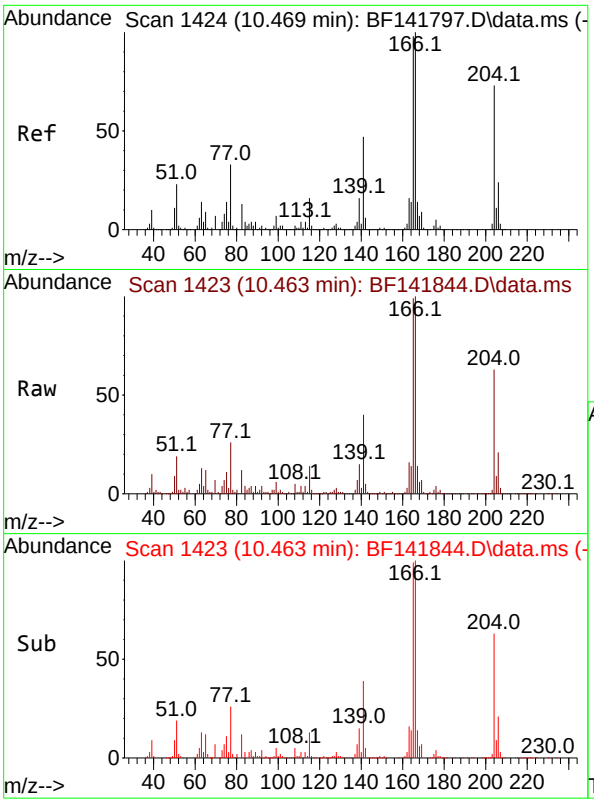


#60
Diethylphthalate
Concen: 39.903 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 991255

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.3	27.5
150	12.6	10.3	15.5

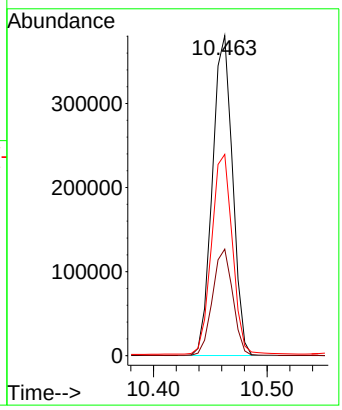




#61
4-Chlorophenyl-phenylether
Concen: 40.915 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:204 Resp: 47002

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.2	39.4
141	62.9	51.7	77.5

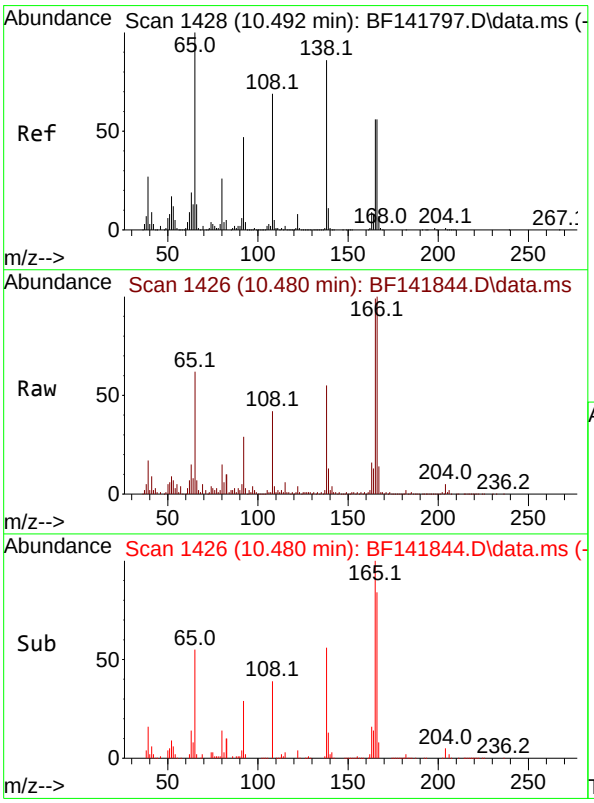


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

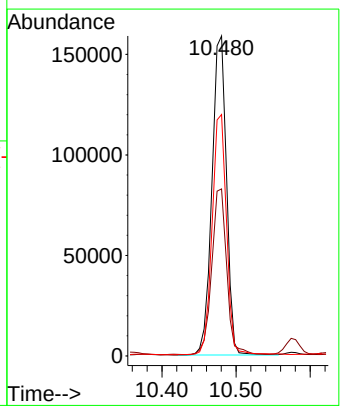
Supervised By :Jagrut Upadhyay
03/06/2025

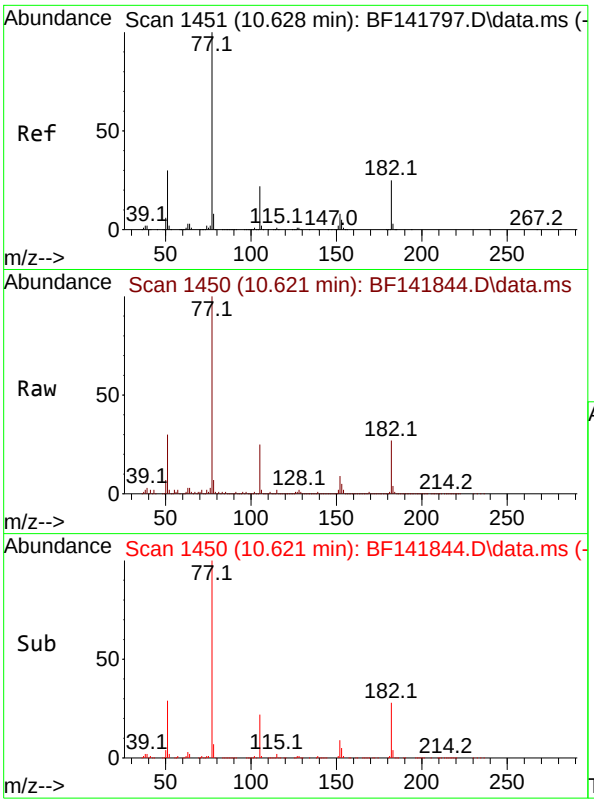


#62
4-Nitroaniline
Concen: 51.021 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:138 Resp: 215910

Ion	Ratio	Lower	Upper
138	100		
92	52.2	34.9	74.9
108	75.4	59.6	99.6

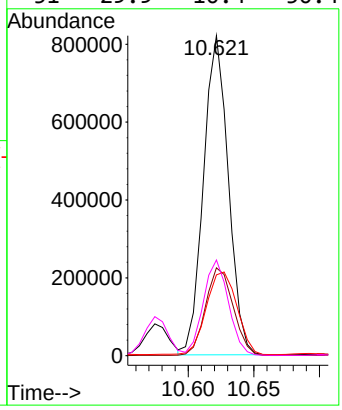




#63
Azobenzene
Concen: 41.298 ng
RT: 10.621 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion: 77 Resp: 108020

Ion	Ratio	Lower	Upper
77	100		
182	27.5	4.2	44.2
105	25.3	1.5	41.5
51	29.9	10.4	50.4

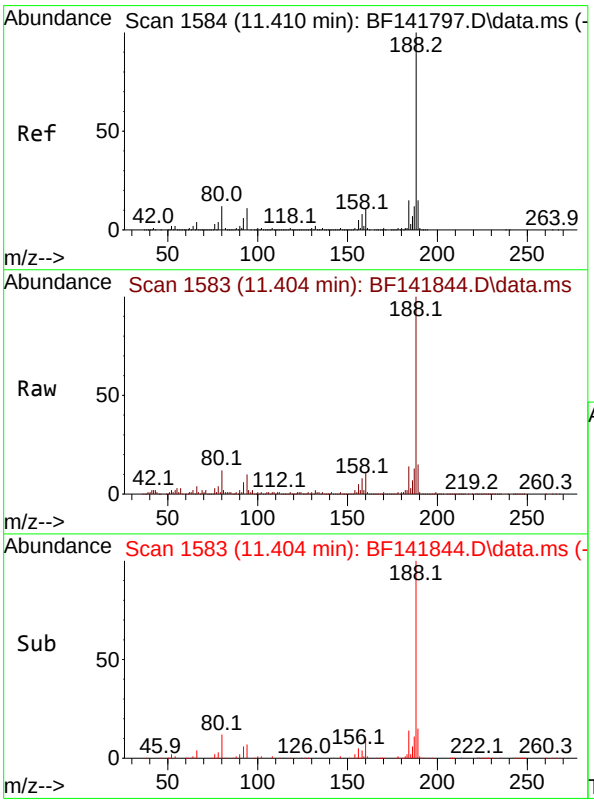


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

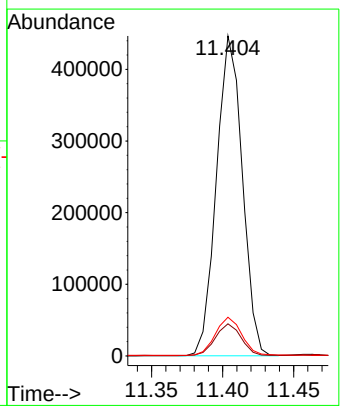
Supervised By :Jagrut Upadhyay
03/06/2025

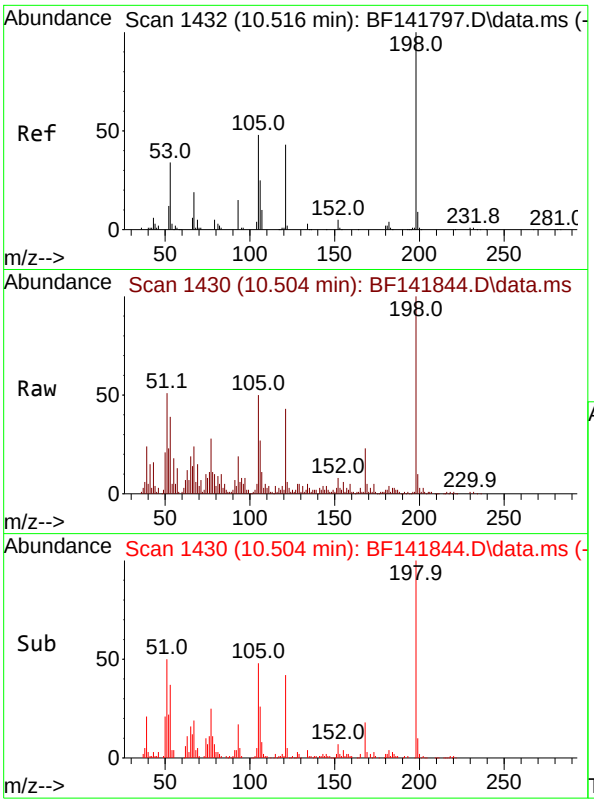


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:188 Resp: 565314

Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.9	13.3
80	12.1	9.7	14.5

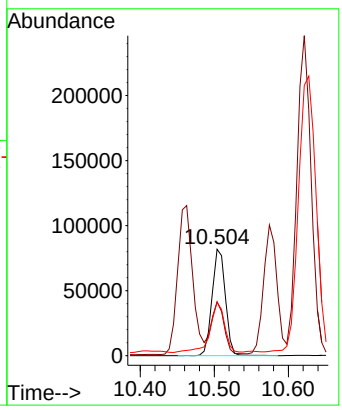




#65
4,6-Dinitro-2-methylphenol
Concen: 40.086 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:198 Resp: 10241

Ion	Ratio	Lower	Upper
198	100		
51	50.7	32.1	72.1
105	50.0	28.5	68.5

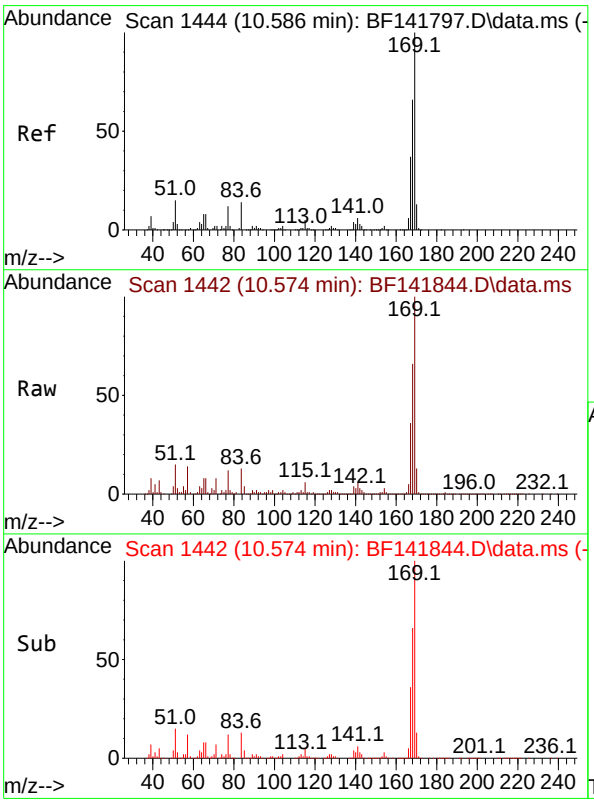


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

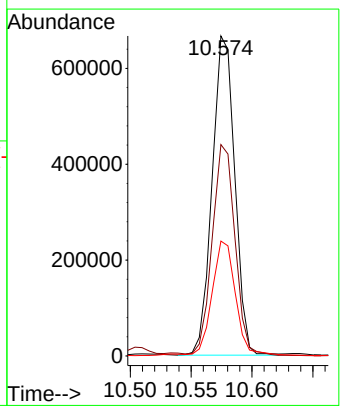
Supervised By :Jagrut Upadhyay
03/06/2025

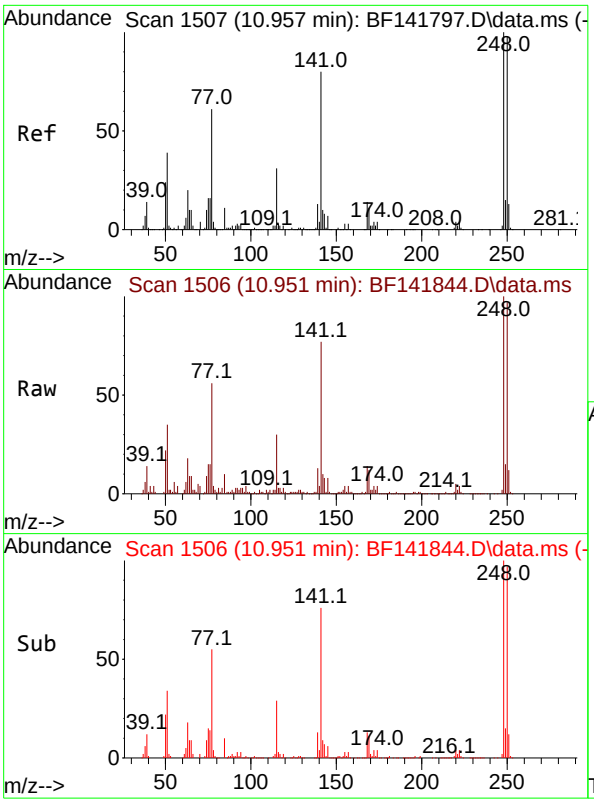


#66
n-Nitrosodiphenylamine
Concen: 46.428 ng
RT: 10.574 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:169 Resp: 861837

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.0	79.6
167	35.9	29.3	43.9

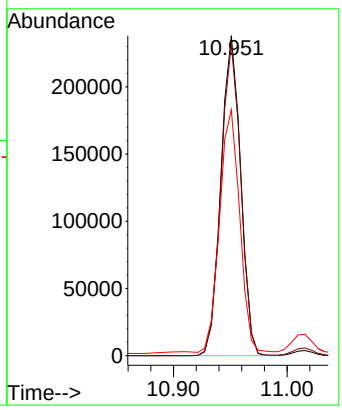




#67
4-Bromophenyl-phenylether
Concen: 43.759 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:248 Resp: 28894

Ion	Ratio	Lower	Upper
248	100		
250	97.4	78.1	117.1
141	76.8	64.3	96.5

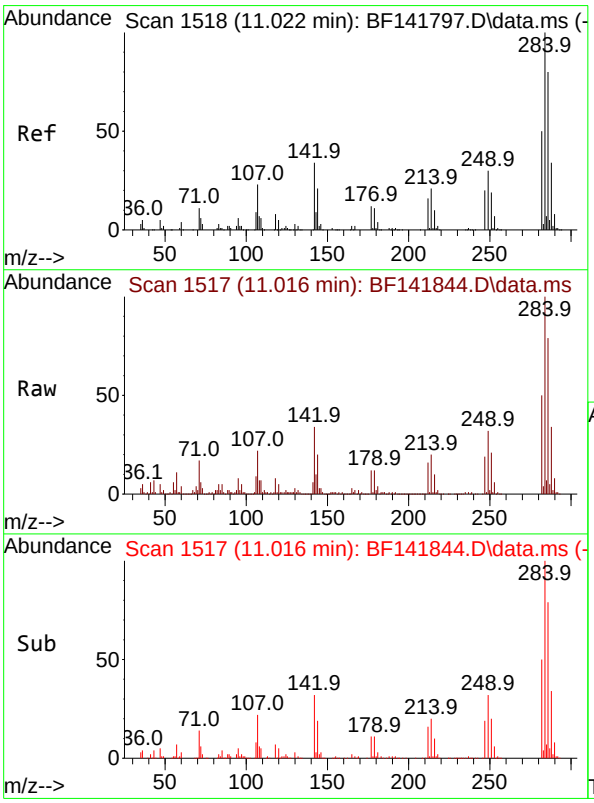


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

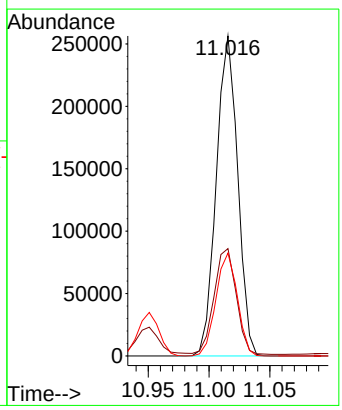
Supervised By :Jagrut Upadhyay
03/06/2025

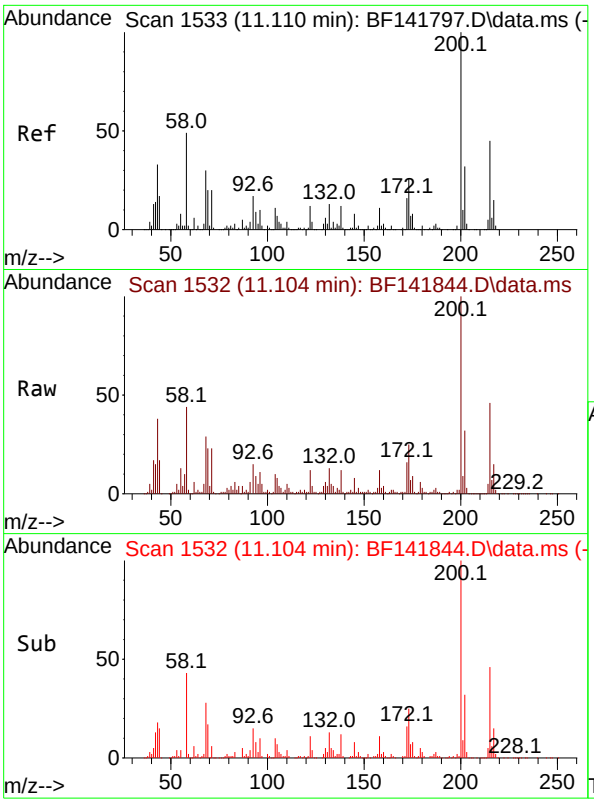


#68
Hexachlorobenzene
Concen: 45.037 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:284 Resp: 314028

Ion	Ratio	Lower	Upper
284	100		
142	33.6	28.2	42.2
249	32.1	25.5	38.3

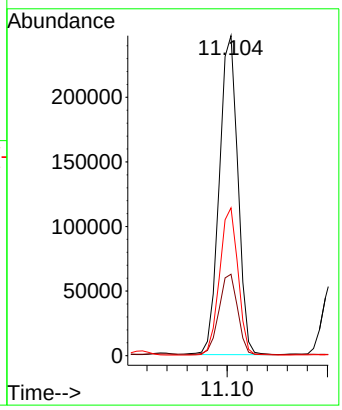




#69
Atrazine
Concen: 62.190 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:200 Resp: 31746

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.6	45.6
215	46.2	25.3	65.3

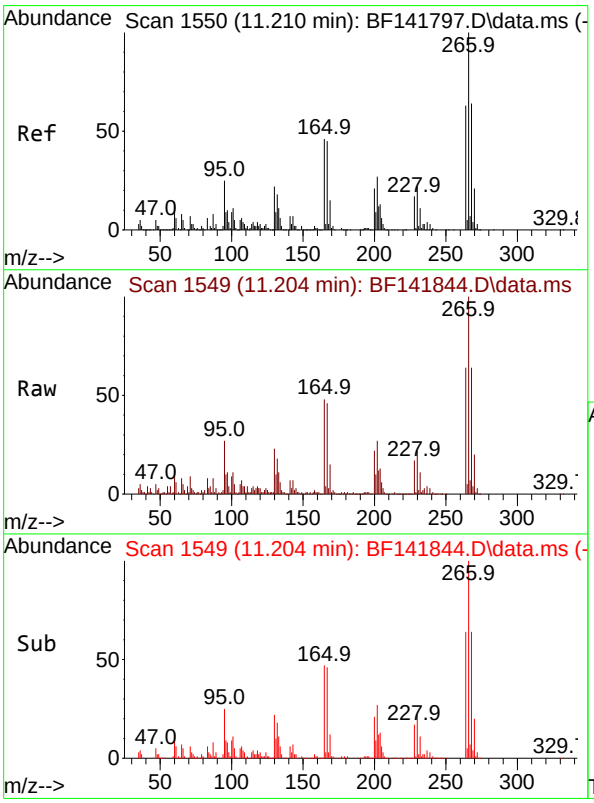


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

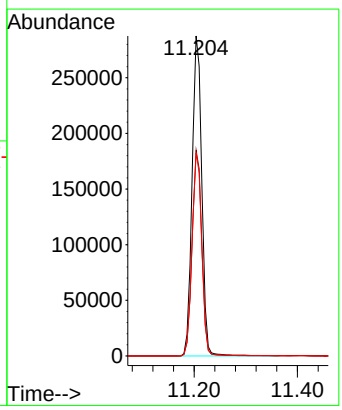
Supervised By :Jagrut Upadhyay
03/06/2025

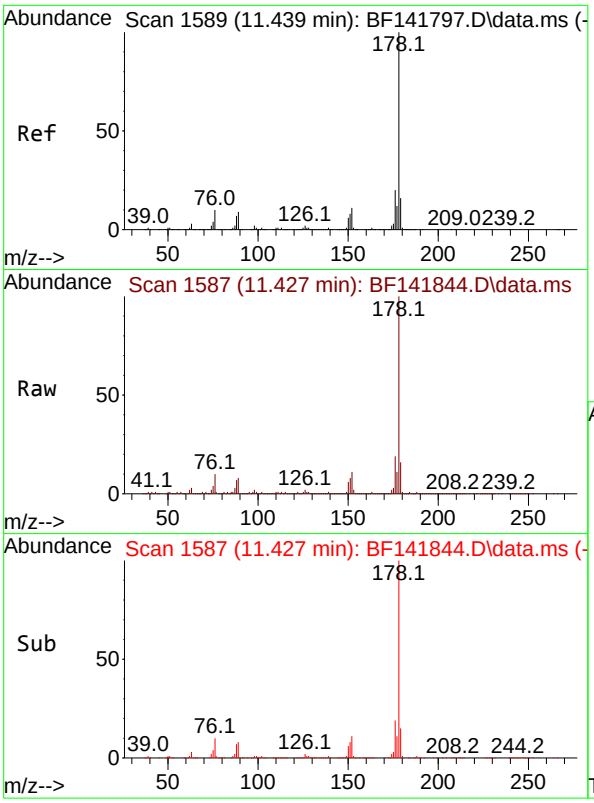


#70
Pentachlorophenol
Concen: 84.690 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:266 Resp: 374526

Ion	Ratio	Lower	Upper
266	100		
268	64.3	50.9	76.3
264	63.5	50.2	75.4

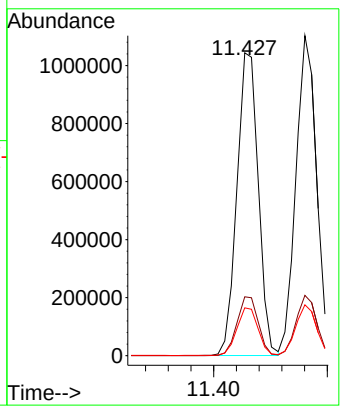




#71
Phenanthrene
Concen: 45.003 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:178 Resp: 136084

Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.8	12.6	19.0

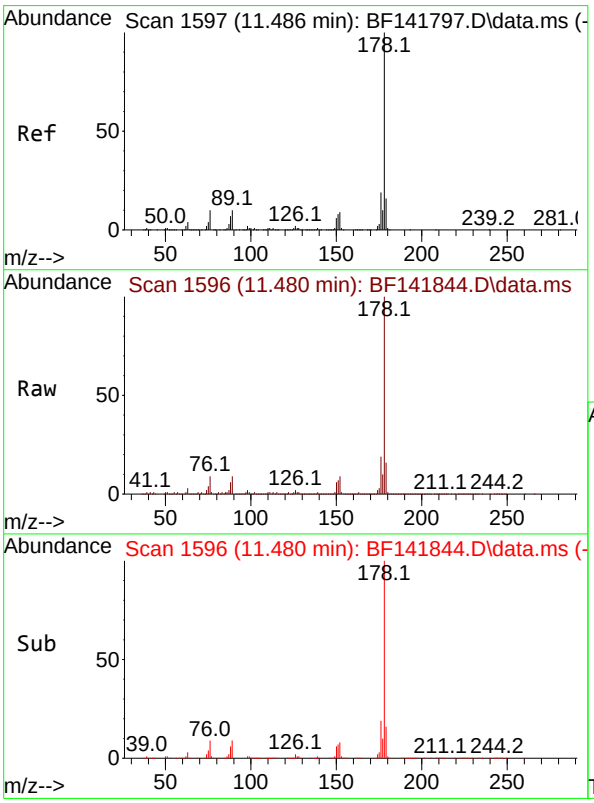


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

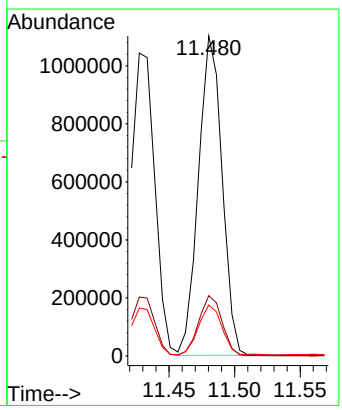
Supervised By :Jagrut Upadhyay
03/06/2025

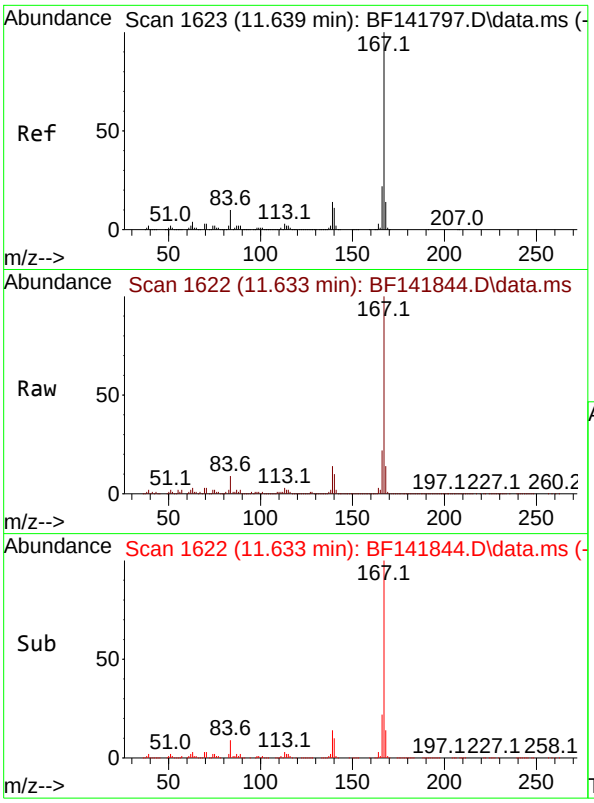


#72
Anthracene
Concen: 45.574 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:178 Resp: 1381172

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.9	12.8	19.2

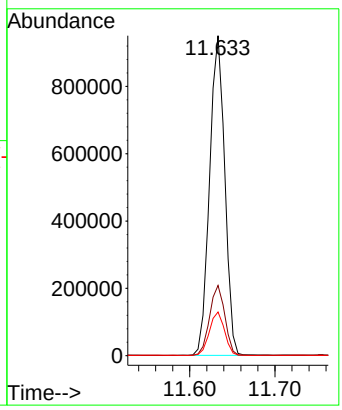




#73
Carbazole
Concen: 43.987 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:167 Resp: 117719

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.6	11.3	16.9

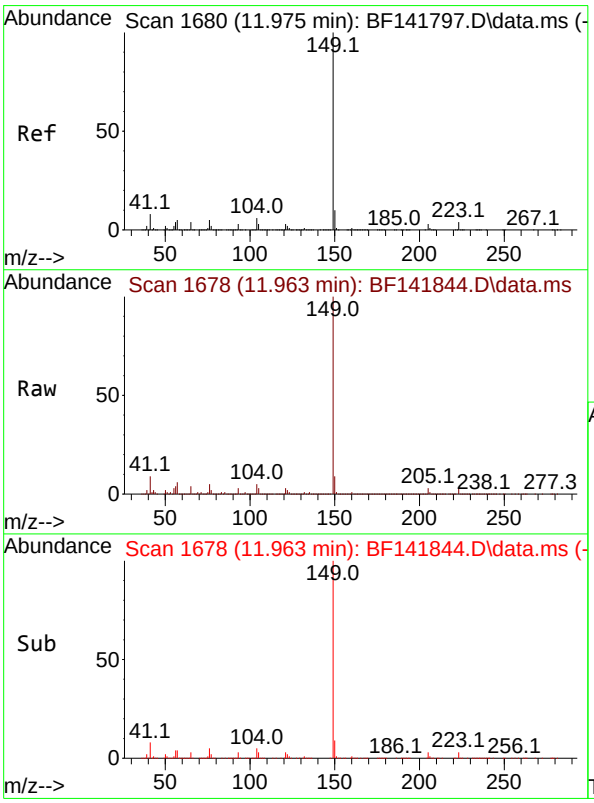


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

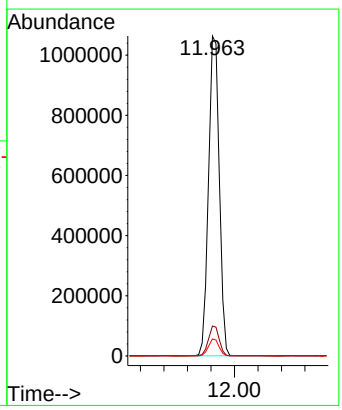
Supervised By :Jagrut Upadhyay
03/06/2025

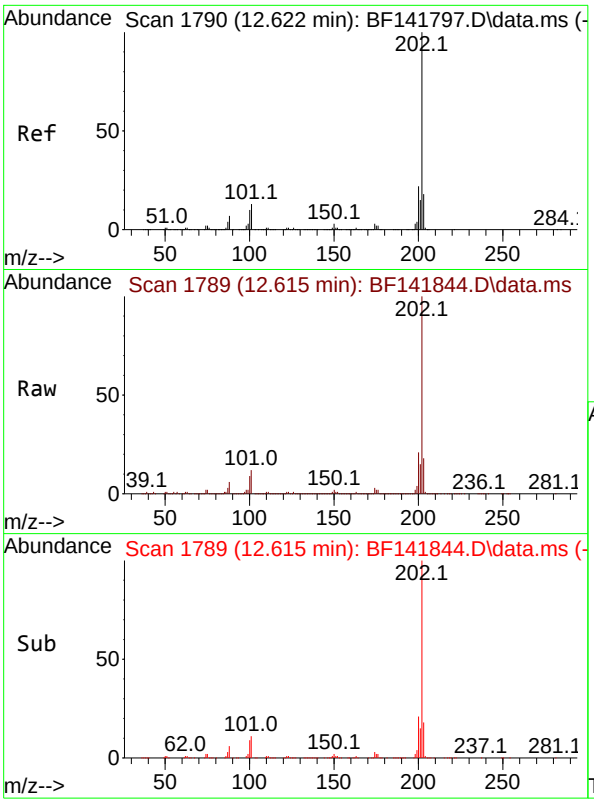


#74
Di-n-butylphthalate
Concen: 40.005 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 1357104

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.7	11.5
104	5.3	4.4	6.6

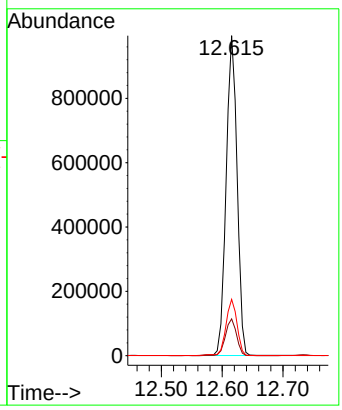




#75
Fluoranthene
Concen: 40.050 ng
RT: 12.615 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:202 Resp: 124093

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	32.8
203	17.6	0.0	38.0

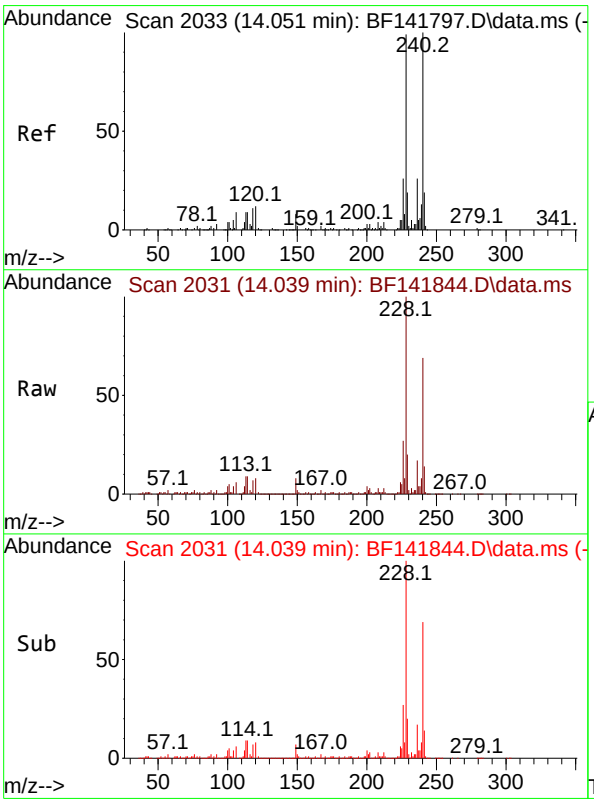


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

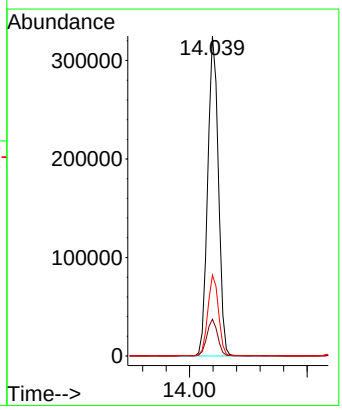
Supervised By :Jagrut Upadhyay
03/06/2025

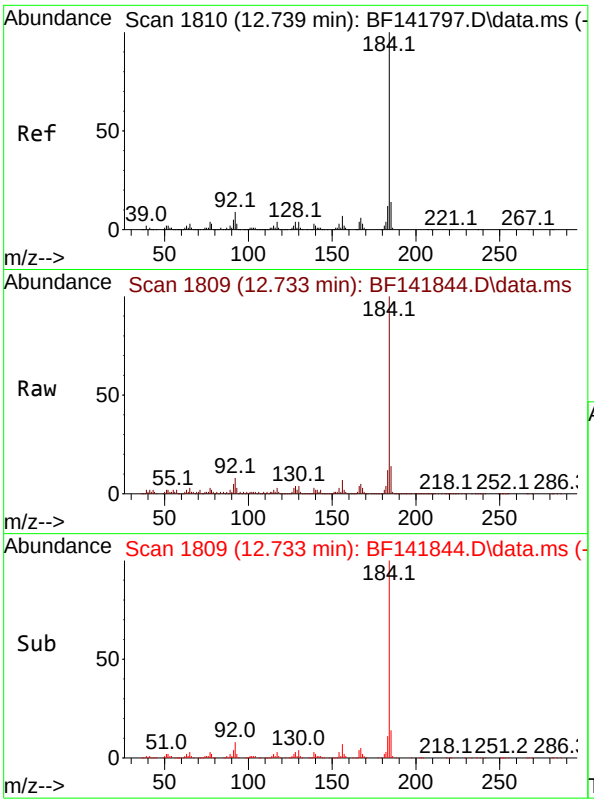


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:240 Resp: 409462

Ion	Ratio	Lower	Upper
240	100		
120	11.5	9.7	14.5
236	25.3	21.0	31.4

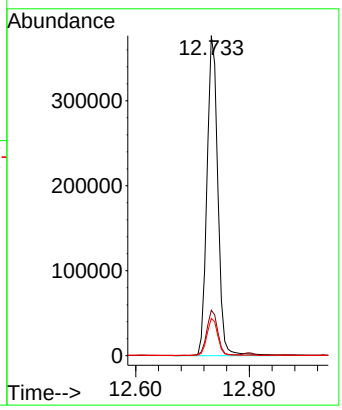




#77
Benzidine
Concen: 96.436 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:184 Resp: 496999

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.6	17.4
183	11.6	9.4	14.0

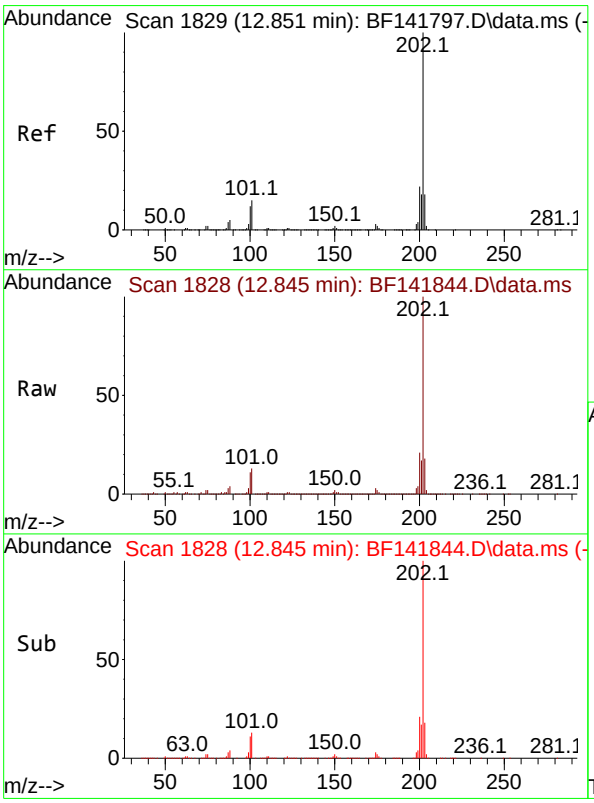


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

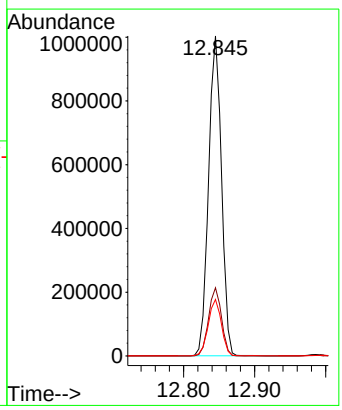
Supervised By :Jagrut Upadhyay
03/06/2025

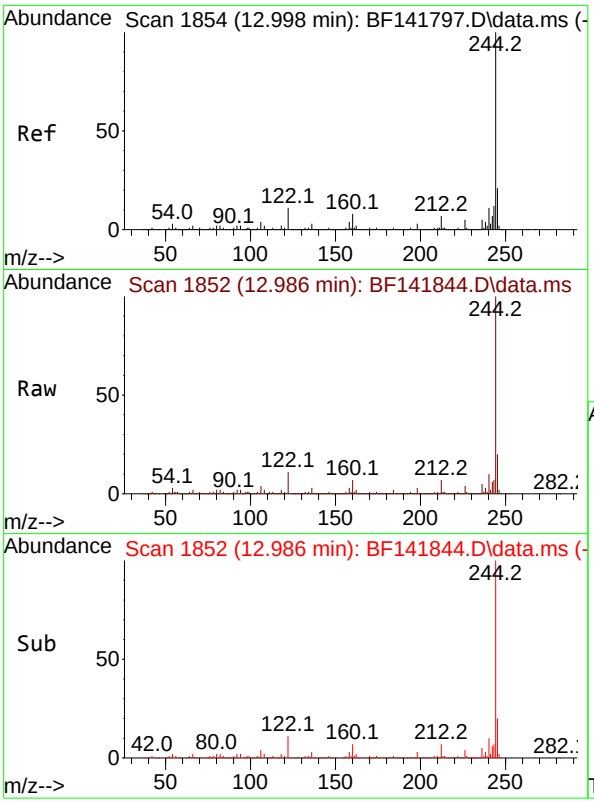


#78
Pyrene
Concen: 35.792 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:202 Resp: 1269067

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.4	26.0
203	17.6	14.6	22.0

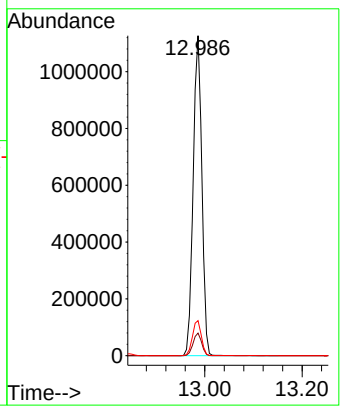




#79
Terphenyl-d14
Concen: 55.502 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:244 Resp: 140464

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	10.9	9.0	13.6

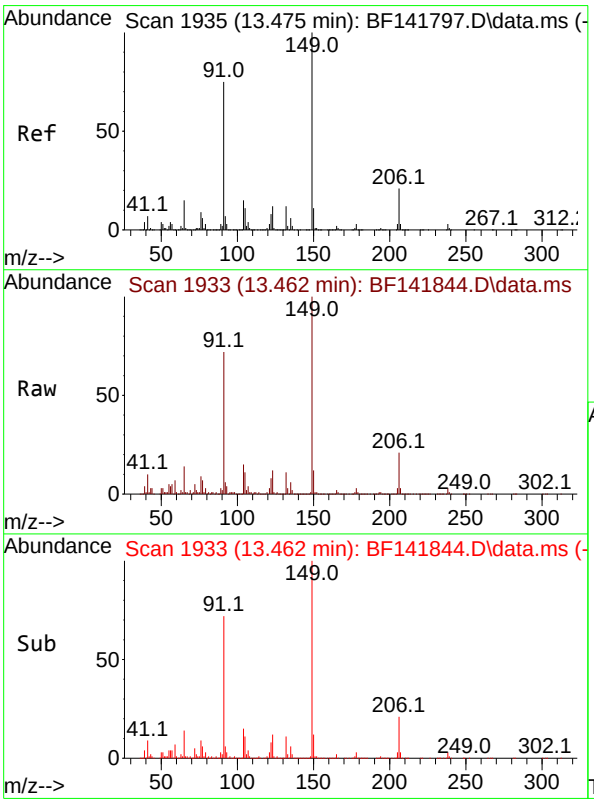


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

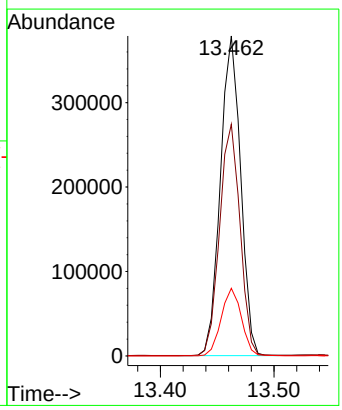
Supervised By :Jagrut Upadhyay
03/06/2025

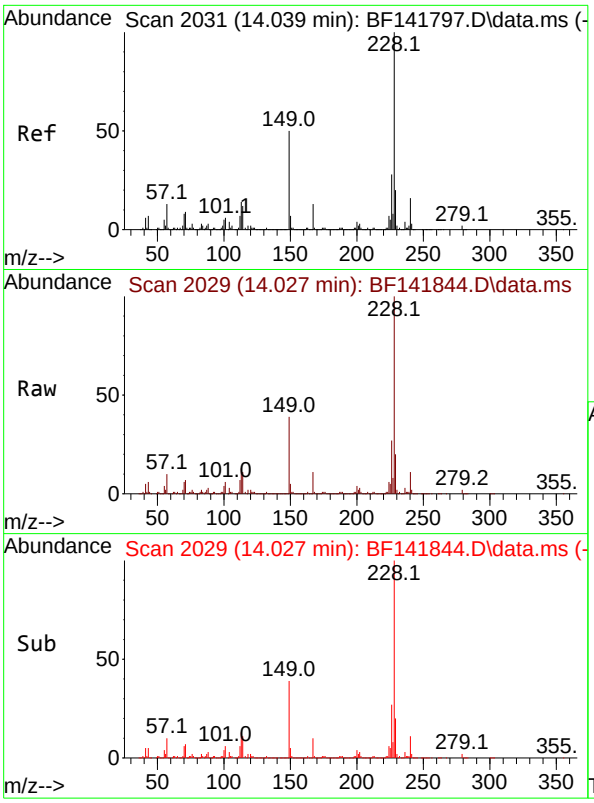


#80
Butylbenzylphthalate
Concen: 36.456 ng
RT: 13.462 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 469636

Ion	Ratio	Lower	Upper
149	100		
91	72.4	60.1	90.1
206	21.2	16.8	25.2

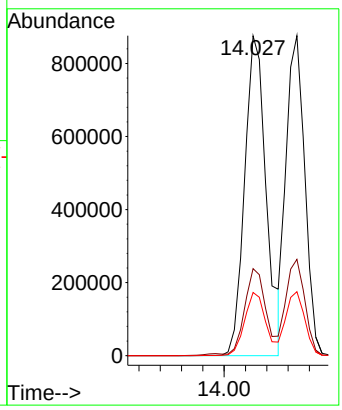




#81
Benzo(a)anthracene
Concen: 45.561 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:228 Resp: 123222

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.7	16.1	24.1

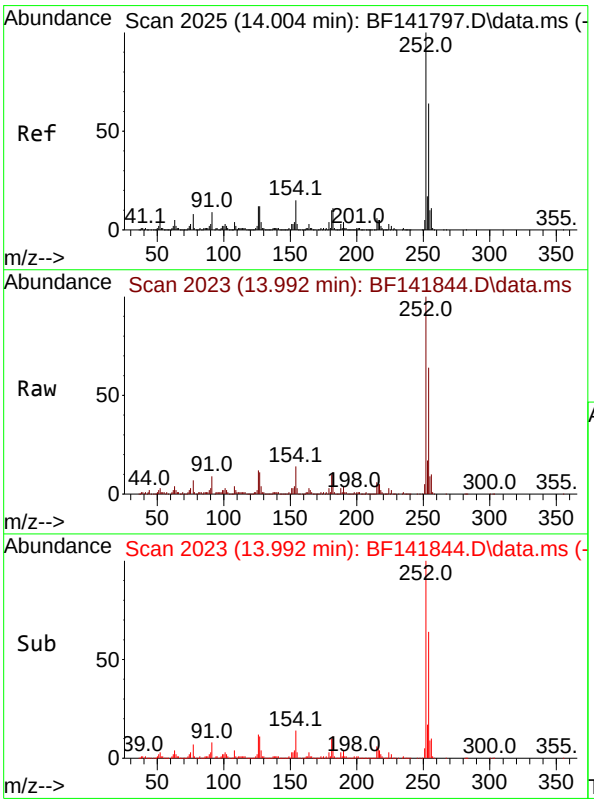


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

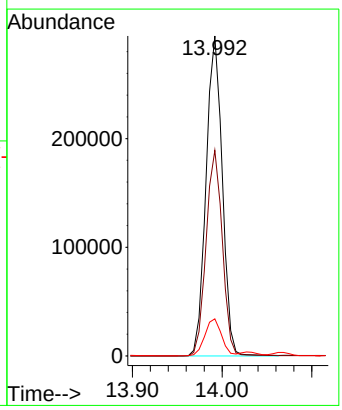
Supervised By :Jagrut Upadhyay
03/06/2025

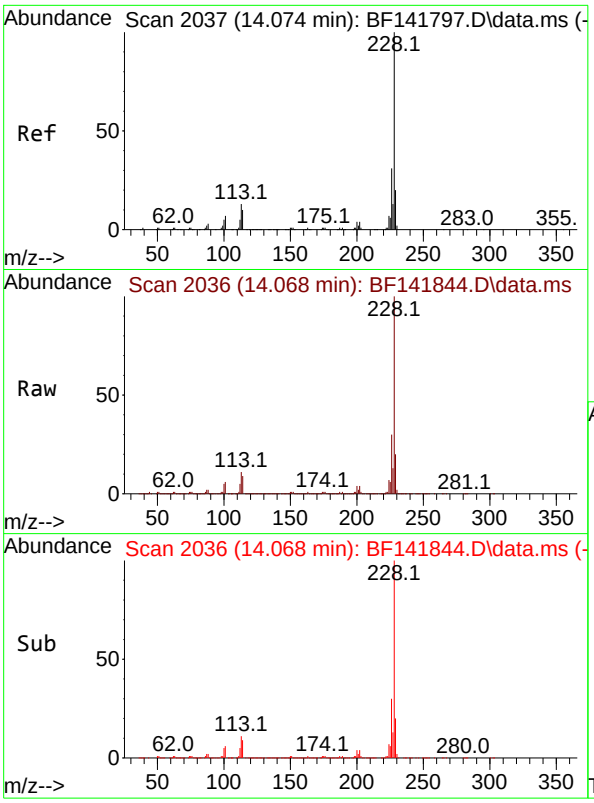


#82
3,3'-Dichlorobenzidine
Concen: 47.653 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 369769

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	11.6	9.8	14.6

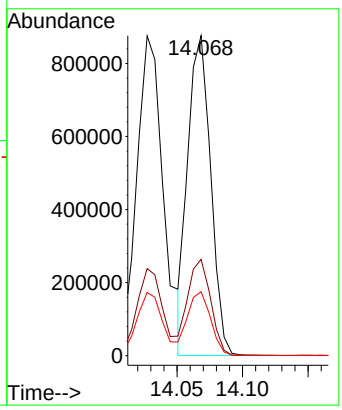




#83
Chrysene
Concen: 42.613 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:228 Resp: 106238

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	20.0	16.1	24.1

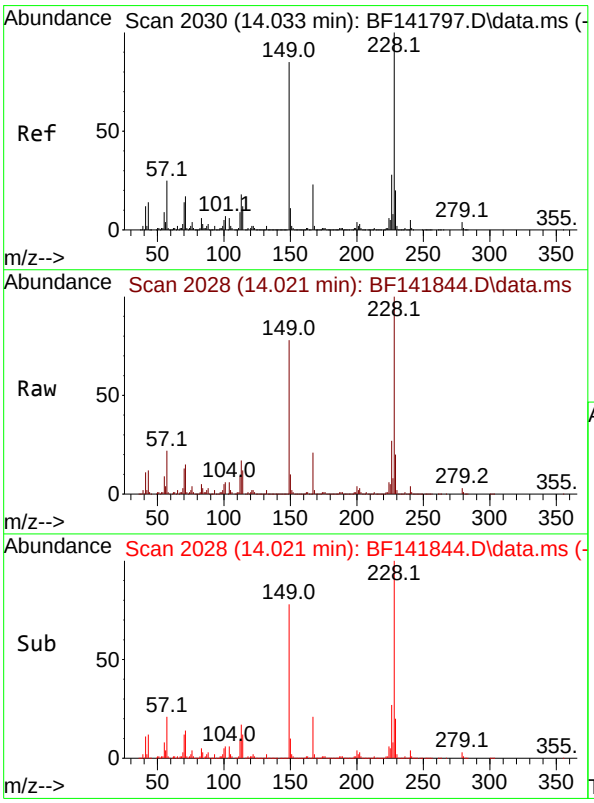


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

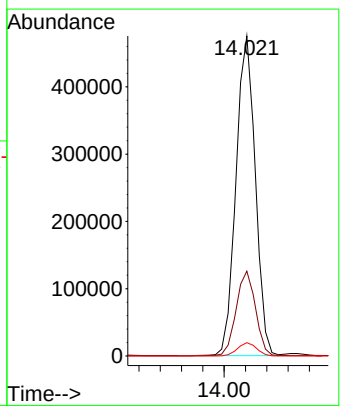
Supervised By :Jagrut Upadhyay
03/06/2025

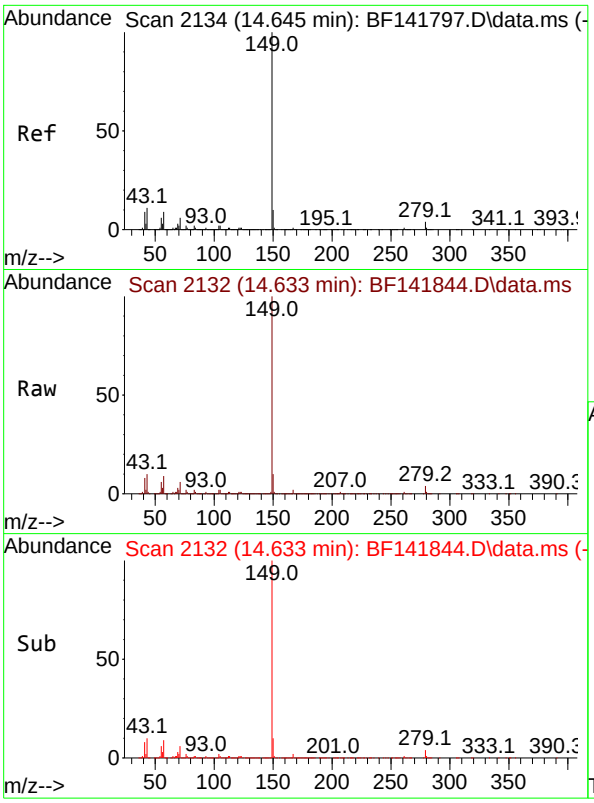


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.423 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 600275

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.2	31.8
279	4.2	3.3	4.9

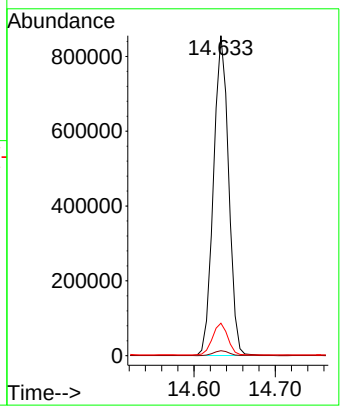




#85
Di-n-octyl phthalate
Concen: 46.163 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:149 Resp: 110857

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.0	8.6	12.8

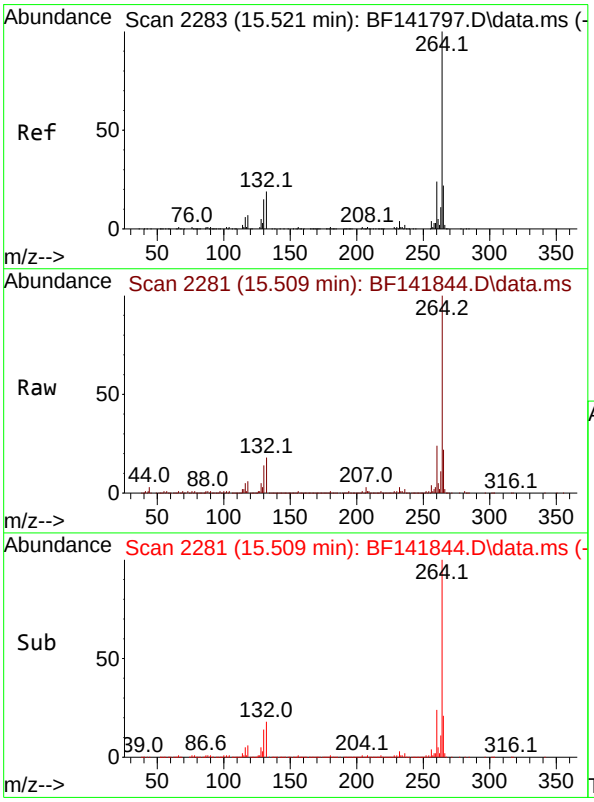


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

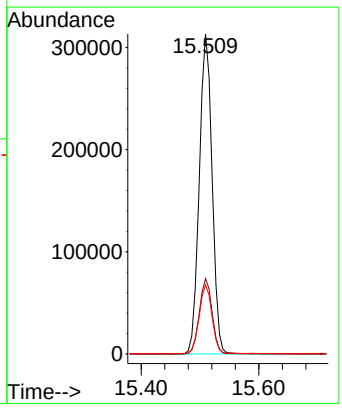
Supervised By :Jagrut Upadhyay
03/06/2025

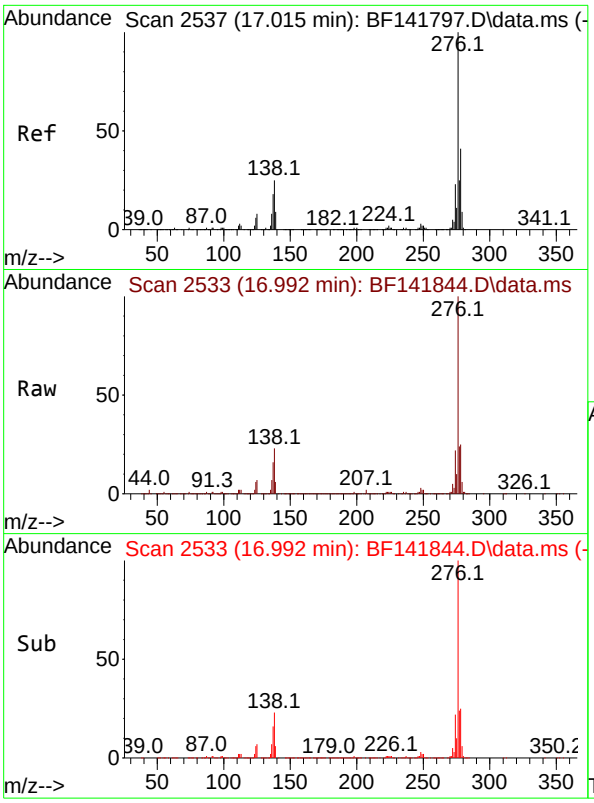


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:264 Resp: 473342

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.9	28.3
265	21.6	17.4	26.0

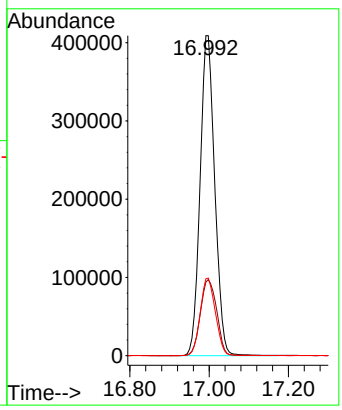




#87
Indeno(1,2,3-cd)pyrene
Concen: 34.852 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:276 Resp: 105046

Ion	Ratio	Lower	Upper
276	100		
138	26.5	22.5	33.7
277	25.2	20.3	30.5

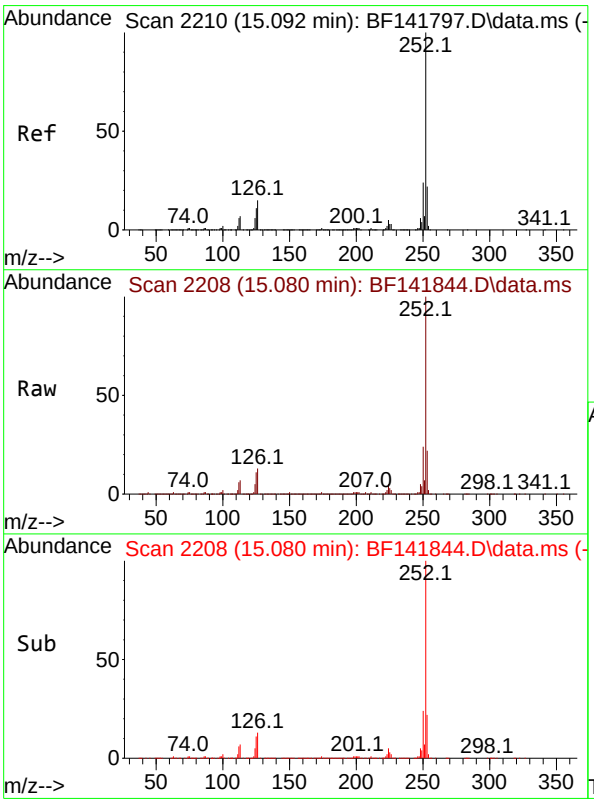


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

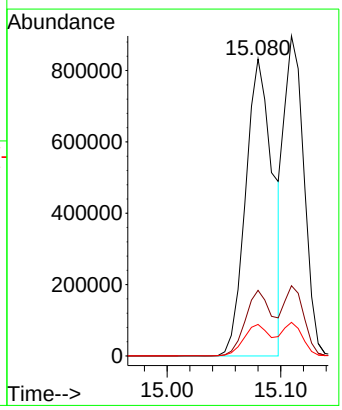
Supervised By :Jagrut Upadhyay
03/06/2025

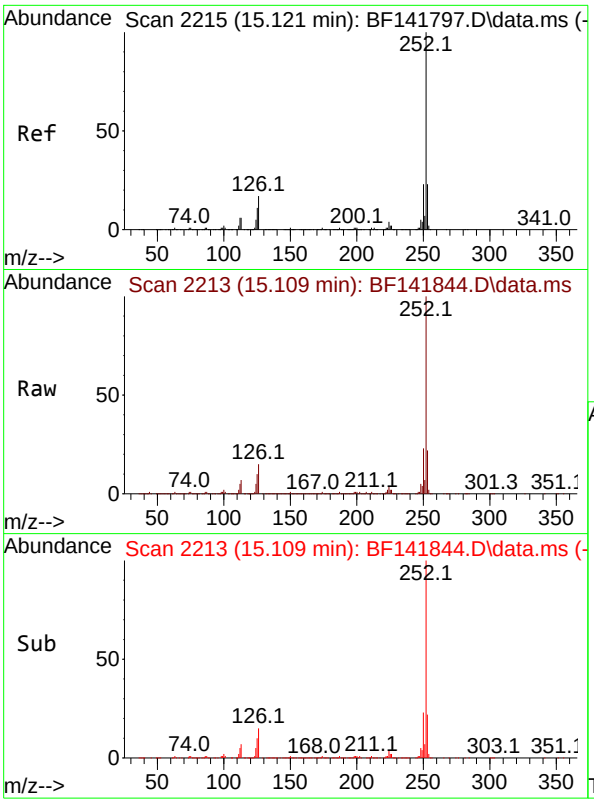


#88
Benzo(b)fluoranthene
Concen: 43.082 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 1389072

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.6	8.6	13.0

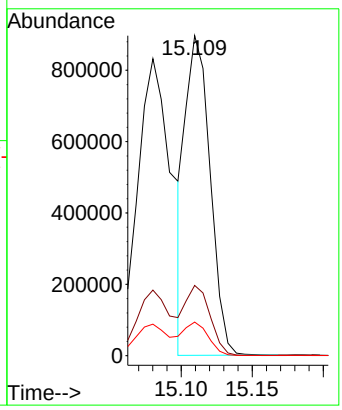




#89
Benzo(k)fluoranthene
Concen: 39.606 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 108539

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	10.5	8.8	13.2

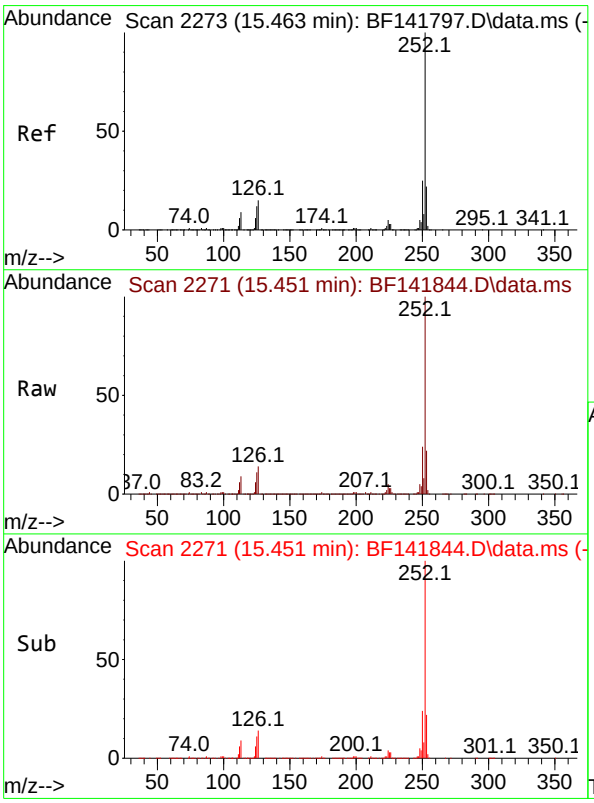


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio
03/06/2025

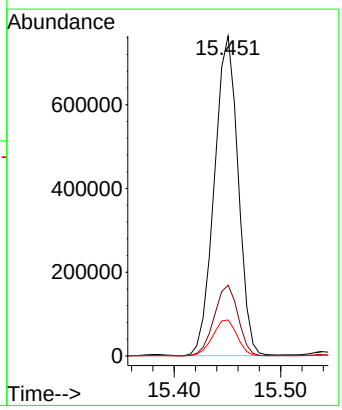
Supervised By :Jagrut Upadhyay
03/06/2025

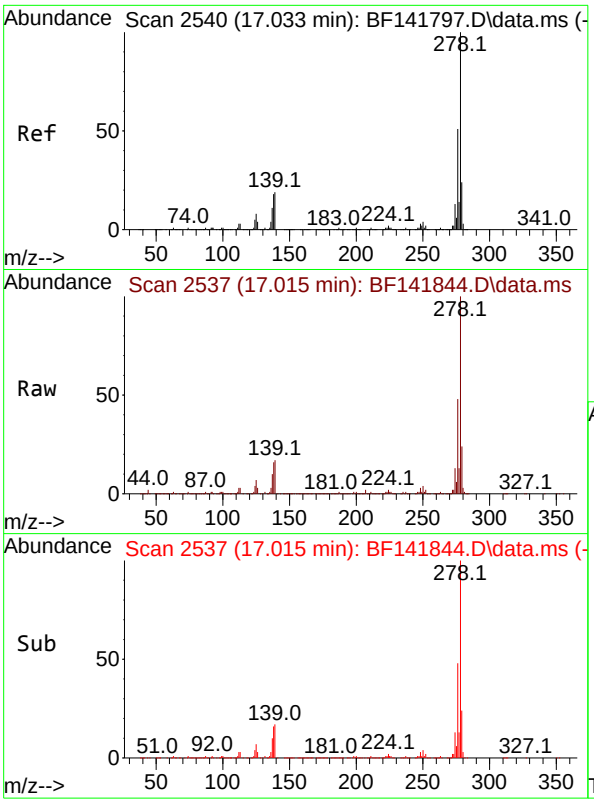


#90
Benzo(a)pyrene
Concen: 45.749 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:252 Resp: 1182996

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	11.3	9.4	14.2

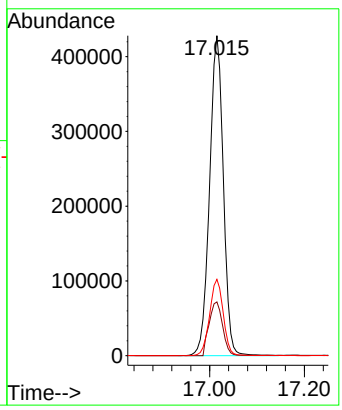




#91
Dibenzo(a,h)anthracene
Concen: 35.102 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:278 Resp: 86359

Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.9	22.3
279	23.8	19.3	28.9

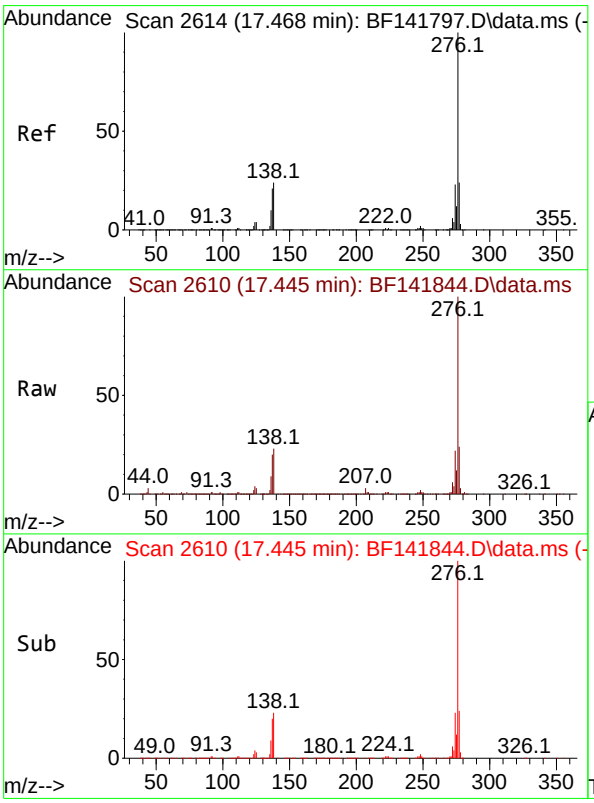


Instrument :
BNA_F
ClientSampleId :
DN-B-42MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio
03/06/2025

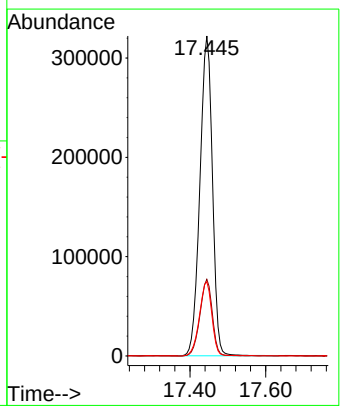
Supervised By :Jagrut Upadhyay
03/06/2025



#92
Benzo(g,h,i)perylene
Concen: 29.280 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141844.D
Acq: 05 Mar 2025 15:21

Tgt Ion:276 Resp: 737995

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.4	29.0
138	23.2	19.3	28.9



Raw Data: **BF141845.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	860		210	370	ug/Kg
108-95-2	Phenol	1700		93.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		94.8	190	ug/Kg
95-57-8	2-Chlorophenol	1700		94.6	190	ug/Kg
95-48-7	2-Methylphenol	1600		91.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1400		100	190	ug/Kg
98-86-2	Acetophenone	1800		98.5	190	ug/Kg
65794-96-9	3+4-Methylphenols	1600		90.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1400		45.7	90.7	ug/Kg
67-72-1	Hexachloroethane	1600		94.1	190	ug/Kg
98-95-3	Nitrobenzene	1800		100	190	ug/Kg
78-59-1	Isophorone	1600		95.9	190	ug/Kg
88-75-5	2-Nitrophenol	1900		110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		97.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		85.6	190	ug/Kg
91-20-3	Naphthalene	1600		93.6	190	ug/Kg
106-47-8	4-Chloroaniline	950		93.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		94.4	190	ug/Kg
105-60-2	Caprolactam	1900		98.4	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1600		87.8	190	ug/Kg
91-57-6	2-Methylnaphthalene	1500		93.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4900	E	180	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		80.9	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1800		83.9	190	ug/Kg
92-52-4	1,1-Biphenyl	1900		99.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		94.4	190	ug/Kg
88-74-4	2-Nitroaniline	2000		110	190	ug/Kg
131-11-3	Dimethylphthalate	1600		92.6	190	ug/Kg

Raw Data: **BF141845.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		98.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		94.3	190	ug/Kg
99-09-2	3-Nitroaniline	1400		100	190	ug/Kg
83-32-9	Acenaphthene	1800		91.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2800		280	370	ug/Kg
100-02-7	4-Nitrophenol	4300	E	130	370	ug/Kg
132-64-9	Dibenzofuran	1600		95.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	2100		97.7	190	ug/Kg
84-66-2	Diethylphthalate	1500		90.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		97.0	190	ug/Kg
86-73-7	Fluorene	1600		96.9	190	ug/Kg
100-01-6	4-Nitroaniline	2000		120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		92.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		89.4	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		96.3	190	ug/Kg
1912-24-9	Atrazine	2400		100	190	ug/Kg
87-86-5	Pentachlorophenol	3200	E	87.6	370	ug/Kg
85-01-8	Phenanthrene	1700		95.2	190	ug/Kg
120-12-7	Anthracene	1700		95.6	190	ug/Kg
86-74-8	Carbazole	1700		91.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	1500		95.5	190	ug/Kg
206-44-0	Fluoranthene	1600		92.6	190	ug/Kg
129-00-0	Pyrene	1400		94.1	190	ug/Kg
85-68-7	Butylbenzylphthalate	1400		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1800		110	370	ug/Kg
56-55-3	Benzo(a)anthracene	1700		91.4	190	ug/Kg
218-01-9	Chrysene	1700		90.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1800		120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		91.9	190	ug/Kg

Raw Data: **BF141845.D**

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

Report of Analysis

Client:	JPCL Engineering	Date Collected:	03/04/25
Project:	NYSDOT Two Bronx River Parkway Bridges	Date Received:	03/04/25
Client Sample ID:	DN-B-42MSD	SDG No.:	Q1487
Lab Sample ID:	Q1487-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.1
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141845.D	1	03/05/25 09:40	03/05/25 15:51	PB166984

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		93.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1300		88.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		92.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1100		90.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1900		98.4	190	ug/Kg
123-91-1	1,4-Dioxane	1600		120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		84.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	109		18 - 112	72%	SPK: 150
13127-88-3	Phenol-d6	104		15 - 107	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.9		18 - 107	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.0		20 - 109	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		10 - 116	78%	SPK: 150
1718-51-0	Terphenyl-d14	56.9		10 - 105	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	191000	6.886			
1146-65-2	Naphthalene-d8	732000	8.169			
15067-26-2	Acenaphthene-d10	367000	9.922			
1517-22-2	Phenanthrene-d10	575000	11.404			
1719-03-5	Chrysene-d12	415000	14.039			
1520-96-3	Perylene-d12	465000	15.509			

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: **BF141845.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	191311	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	731999	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	367233	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	575333	20.000	ng	0.00
76) Chrysene-d12	14.039	240	414755	20.000	ng	-0.01
86) Perylene-d12	15.509	264	465047	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1301485	108.643	ng	0.00
7) Phenol-d6	6.504	99	1625710	104.263	ng	0.00
23) Nitrobenzene-d5	7.445	82	1029379	89.888	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	402954	116.878	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1718796	75.048	ng	0.00
79) Terphenyl-d14	12.986	244	1459806	56.946	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.710	88	228087	41.961	ng	99
3) Pyridine	3.475	79	547422	40.476	ng	98
4) n-Nitrosodimethylamine	3.416	42	283179	43.516	ng	97
6) Aniline	6.545	93	629942	38.861	ng	100
8) 2-Chlorophenol	6.669	128	575056	44.375	ng	96
9) Benzaldehyde	6.434	77	206651	22.785	ng	98
10) Phenol	6.522	94	741516	44.504	ng	97
11) bis(2-Chloroethyl)ether	6.622	93	531330	41.835	ng	97
12) 1,3-Dichlorobenzene	6.828	146	603684	43.499	ng	99
13) 1,4-Dichlorobenzene	6.904	146	616390	44.080	ng	99
14) 1,2-Dichlorobenzene	7.057	146	583334	44.674	ng	98
15) Benzyl Alcohol	7.022	79	497324	39.909	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	733553	38.031	ng	99
17) 2-Methylphenol	7.128	107	454751	42.513	ng	100
18) Hexachloroethane	7.398	117	224314	42.859	ng	99
19) n-Nitroso-di-n-propyla...	7.292	70	390439	38.092	ng	99
20) 3+4-Methylphenols	7.281	107	581786	43.679	ng	97
22) Acetophenone	7.292	105	842821	47.275	ng	98
24) Nitrobenzene	7.463	77	598766	48.826	ng	99
25) Isophorone	7.704	82	1045129	42.481	ng	99
26) 2-Nitrophenol	7.781	139	281708	51.099	ng	99
27) 2,4-Dimethylphenol	7.810	122	484864	53.613	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	621875	39.625	ng	99
29) 2,4-Dichlorophenol	8.016	162	452566	43.378	ng	99
30) 1,2,4-Trichlorobenzene	8.104	180	495020	43.300	ng	98
31) Naphthalene	8.186	128	1597999	42.475	ng	99
32) Benzoic acid	7.910	122	356667m	47.372	ng	
33) 4-Chloroaniline	8.233	127	347428	25.186	ng	98
34) Hexachlorobutadiene	8.304	225	307767	43.322	ng	98
35) Caprolactam	8.592	113	165656	51.613	ng	97
36) 4-Chloro-3-methylphenol	8.704	107	485311	41.874	ng	99
37) 2-Methylnaphthalene	8.880	142	980751	39.744	ng	99
38) 1-Methylnaphthalene	8.975	142	970185	40.974	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	524773	49.478	ng	99
41) Hexachlorocyclopentadiene	9.033	237	568656	128.474	ng	100
43) 2,4,6-Trichlorophenol	9.151	196	320323	46.755	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	326554	48.135	ng		99
46) 1,1'-Biphenyl	9.339	154	1381301	49.416	ng		99
47) 2-Chloronaphthalene	9.369	162	939307	45.529	ng		98
48) 2-Nitroaniline	9.457	65	301849	52.958	ng		97
49) Acenaphthylene	9.780	152	1444944	46.713	ng		100
50) Dimethylphthalate	9.639	163	1069323	43.481	ng		99
51) 2,6-Dinitrotoluene	9.698	165	235755	49.987	ng		96
52) Acenaphthene	9.957	154	980429	46.974	ng		99
53) 3-Nitroaniline	9.869	138	179159	36.508	ng	#	94
54) 2,4-Dinitrophenol	9.969	184	153518	73.318	ng	#	18
55) Dibenzofuran	10.127	168	1289752	42.456	ng		98
56) 4-Nitrophenol	10.016	139	414529	114.125	ng		99
57) 2,4-Dinitrotoluene	10.104	165	323093	55.621	ng		91
58) Fluorene	10.469	166	986733	43.363	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	269777	45.723	ng		98
60) Diethylphthalate	10.339	149	1010574	40.990	ng		100
61) 4-Chlorophenyl-phenyle...	10.463	204	482285	42.302	ng		99
62) 4-Nitroaniline	10.480	138	222496	52.977	ng		96
63) Azobenzene	10.622	77	1103992	42.529	ng		95
65) 4,6-Dinitro-2-methylph...	10.510	198	112278	42.552	ng		92
66) n-Nitrosodiphenylamine	10.574	169	874306	46.279	ng		100
67) 4-Bromophenyl-phenylether	10.951	248	299369	44.548	ng		97
68) Hexachlorobenzene	11.016	284	318600	44.897	ng		99
69) Atrazine	11.104	200	327584	63.055	ng		98
70) Pentachlorophenol	11.204	266	378895	84.186	ng		99
71) Phenanthrene	11.427	178	1401406	45.538	ng		99
72) Anthracene	11.480	178	1410204	45.722	ng		99
73) Carbazole	11.633	167	1207332	44.327	ng		99
74) Di-n-butylphthalate	11.963	149	1415465	40.999	ng		100
75) Fluoranthene	12.616	202	1296948	41.129	ng		98
77) Benzidine	12.733	184	567942	108.795	ng		99
78) Pyrene	12.845	202	1302790	36.274	ng		99
80) Butylbenzylphthalate	13.463	149	493506	37.820	ng		98
81) Benzo(a)anthracene	14.033	228	1246967	45.518	ng		100
82) 3,3'-Dichlorobenzidine	13.992	252	378006	48.093	ng		100
83) Chrysene	14.068	228	1103430	43.694	ng		99
84) Bis(2-ethylhexyl)phtha...	14.021	149	628755	38.698	ng		100
85) Di-n-octyl phthalate	14.633	149	1135656	46.687	ng		98
87) Indeno(1,2,3-cd)pyrene	16.992	276	1039862	35.115	ng		98
88) Benzo(b)fluoranthene	15.080	252	1433060	45.239	ng		99
89) Benzo(k)fluoranthene	15.109	252	1063202	39.488	ng		99
90) Benzo(a)pyrene	15.451	252	1186012	46.684	ng		99
91) Dibenzo(a,h)anthracene	17.015	278	871243	36.044	ng		98
92) Benzo(g,h,i)perylene	17.445	276	735371	29.696	ng		98

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

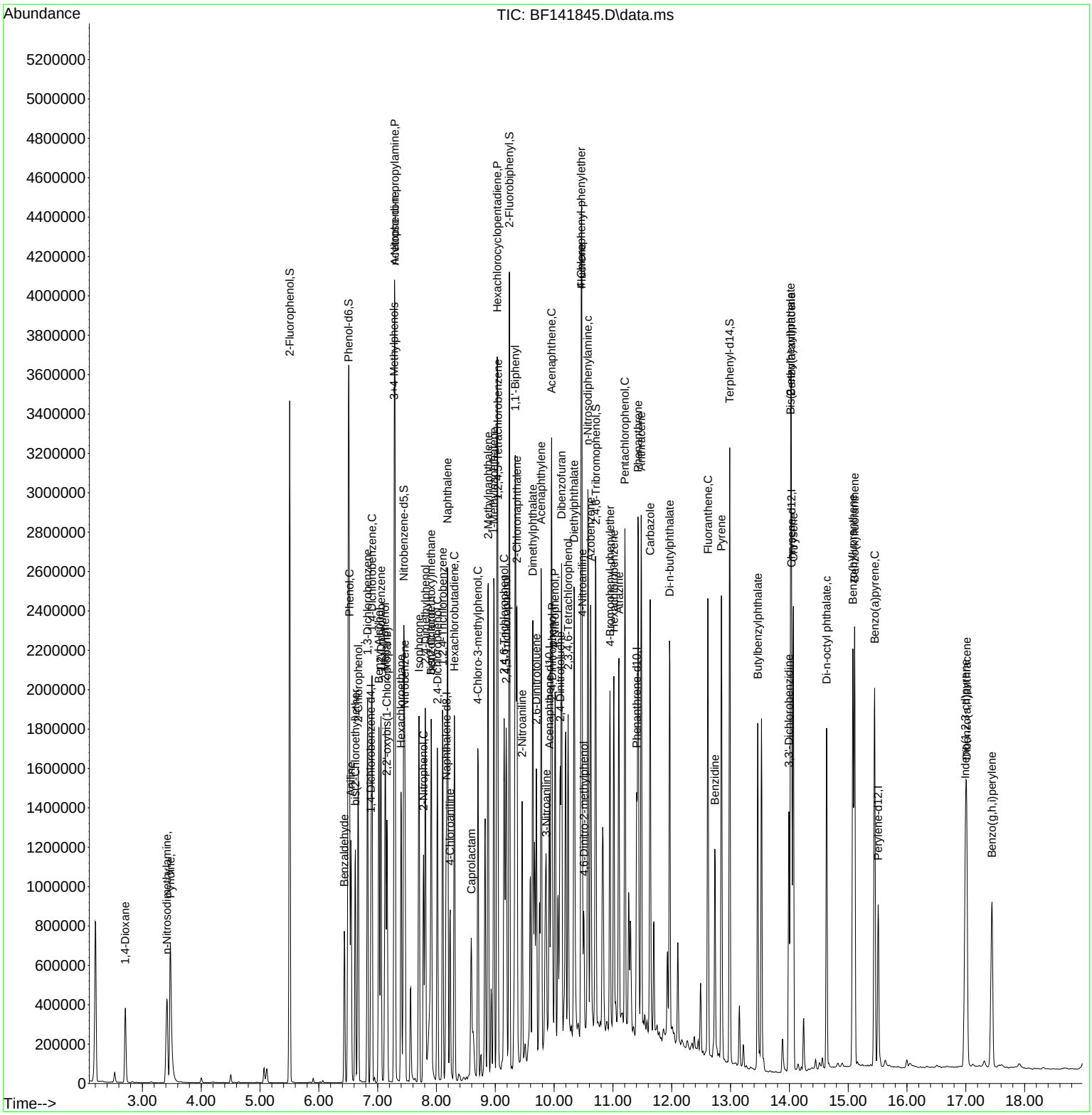
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030525\
Data File : BF141845.D
Acq On : 05 Mar 2025 15:51
Operator : RC/JU
Sample : Q1487-01MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

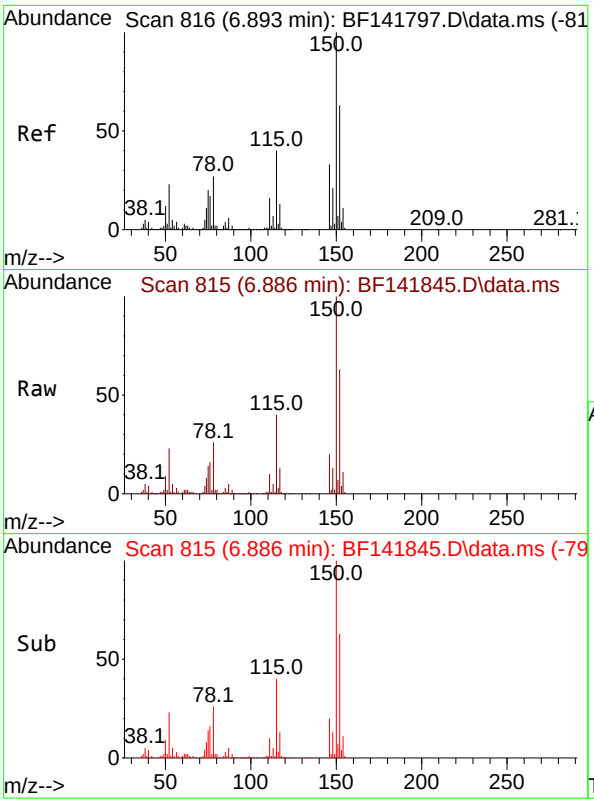
Quant Time: Mar 05 16:12:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

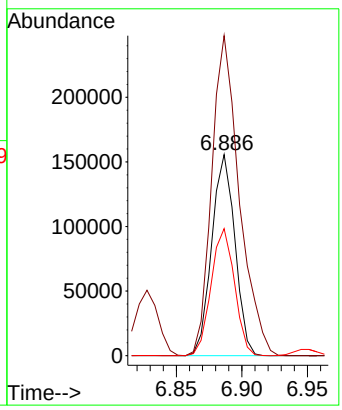




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:152 Resp: 19131

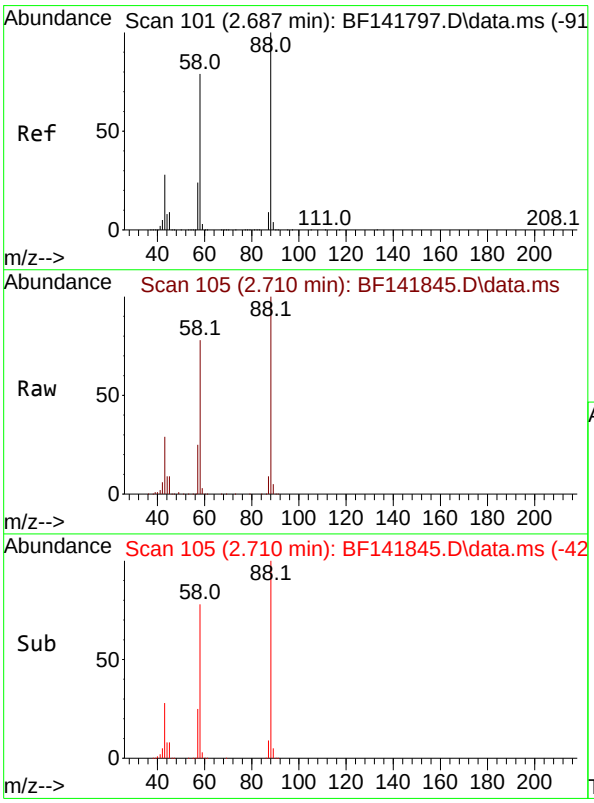
Ion	Ratio	Lower	Upper
152	100		
150	159.1	127.5	191.3
115	63.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

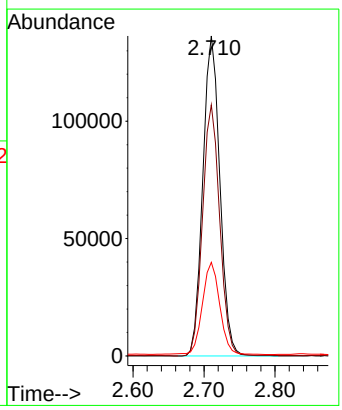
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

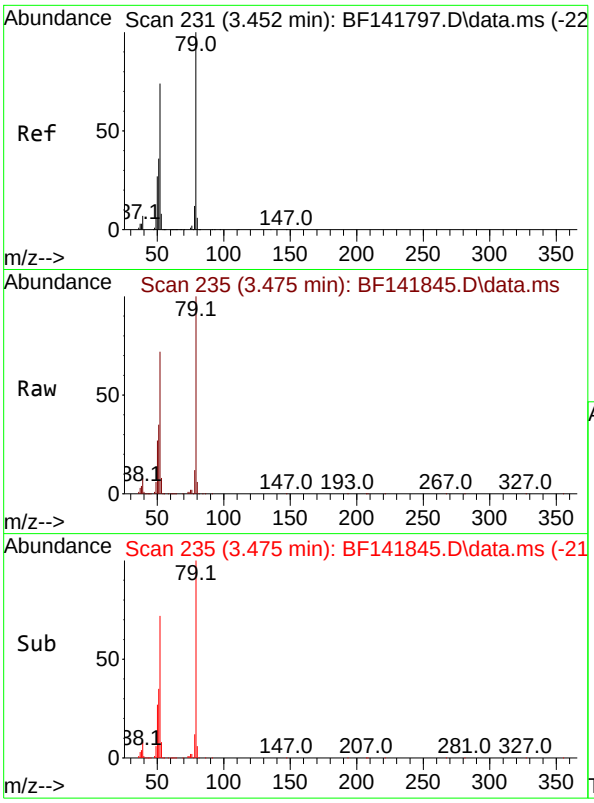


#2
1,4-Dioxane
Concen: 41.961 ng
RT: 2.710 min Scan# 105
Delta R.T. 0.023 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 88 Resp: 228087

Ion	Ratio	Lower	Upper
88	100		
58	78.8	63.9	95.9
43	29.3	23.0	34.6

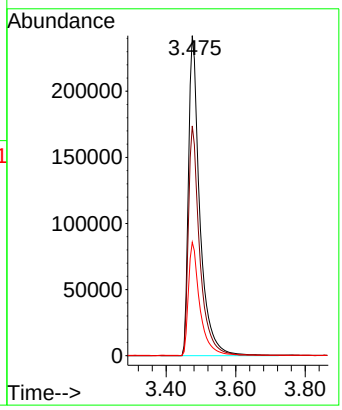




#3
Pyridine
Concen: 40.476 ng
RT: 3.475 min Scan# 2
Delta R.T. 0.023 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 79 Resp: 54742

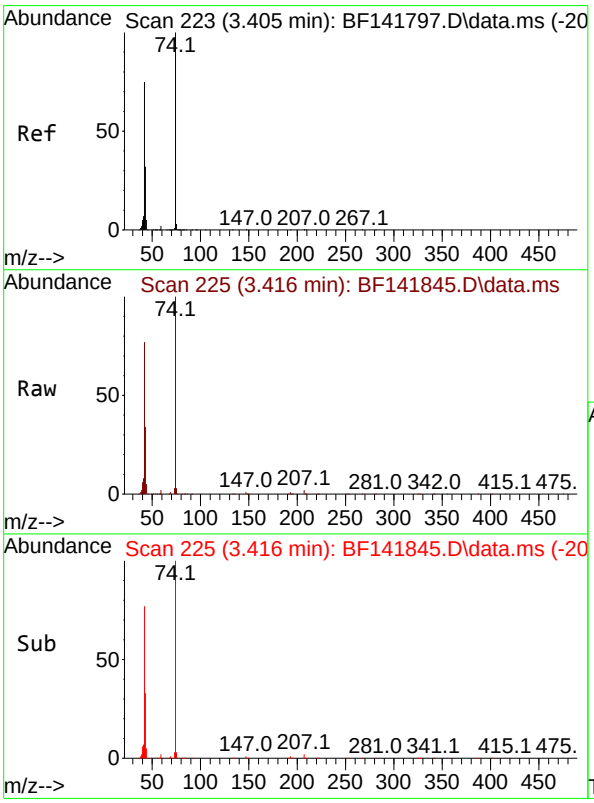
Ion	Ratio	Lower	Upper
79	100		
52	71.8	59.0	88.4
51	35.5	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

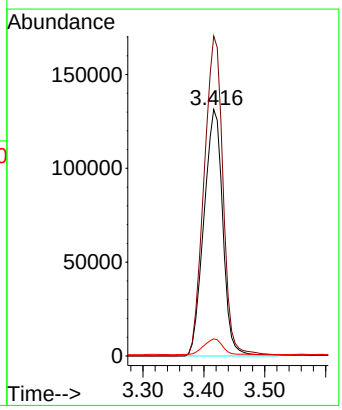
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

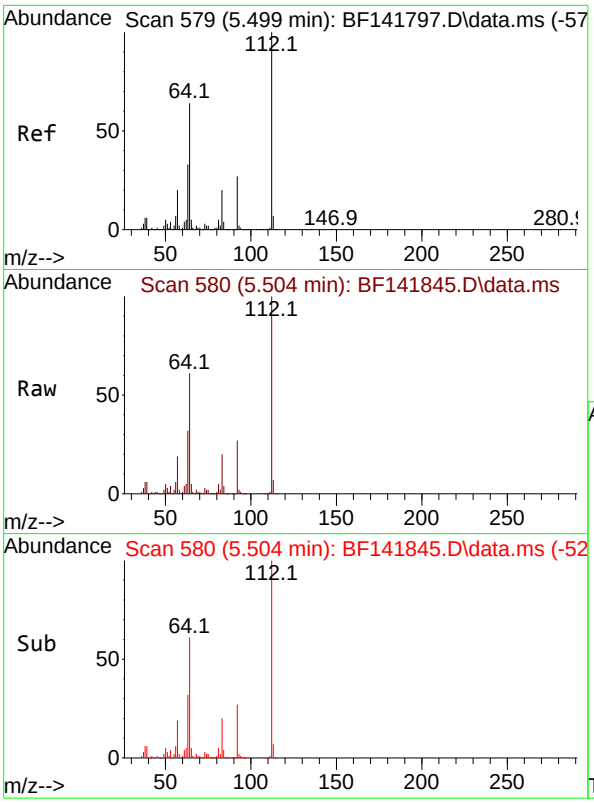


#4
n-Nitrosodimethylamine
Concen: 43.516 ng
RT: 3.416 min Scan# 225
Delta R.T. 0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 42 Resp: 283179

Ion	Ratio	Lower	Upper
42	100		
74	129.8	107.1	160.7
44	6.9	6.6	9.8

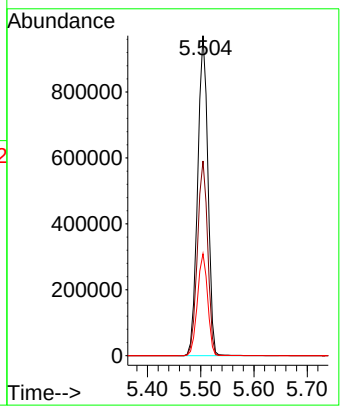




#5
2-Fluorophenol
Concen: 108.643 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:112 Resp: 130148

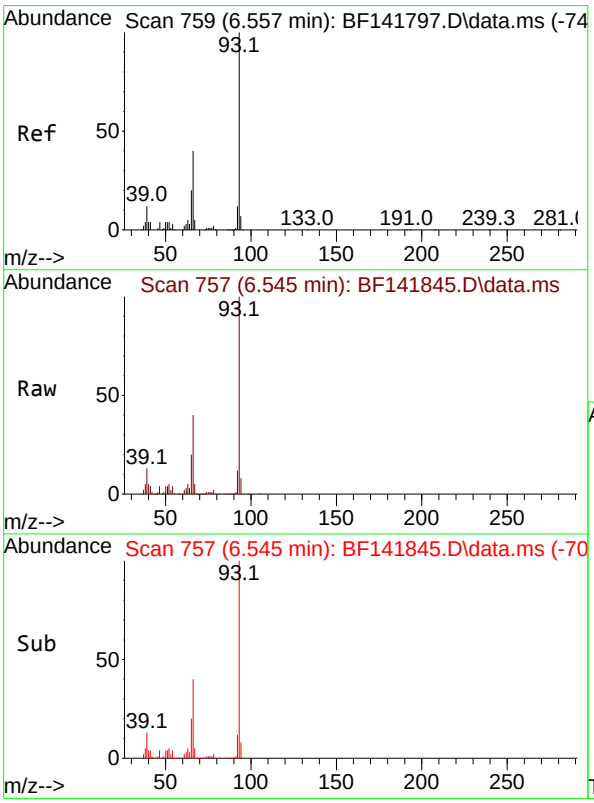
Ion	Ratio	Lower	Upper
112	100		
64	60.9	51.3	76.9
63	31.8	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

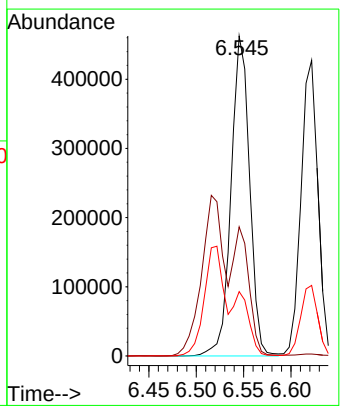
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

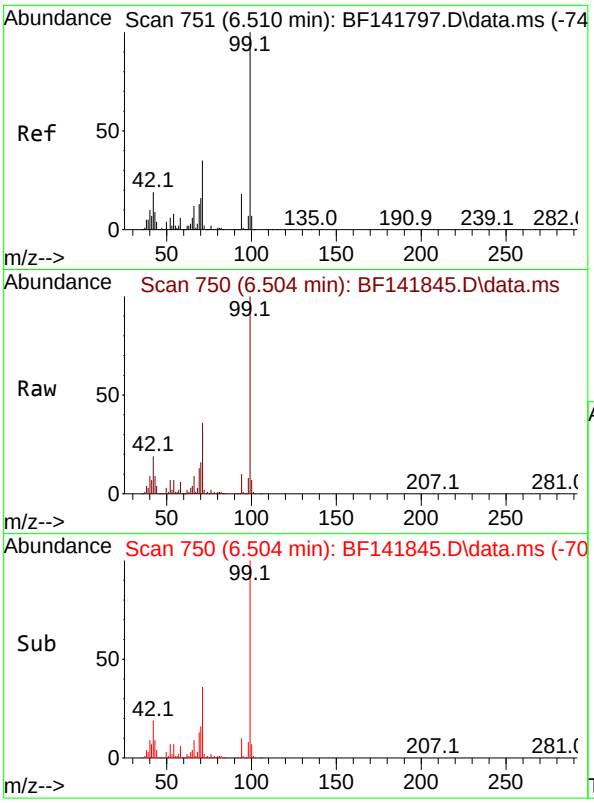


#6
Aniline
Concen: 38.861 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 629942

Ion	Ratio	Lower	Upper
93	100		
66	40.4	32.3	48.5
65	20.1	15.9	23.9

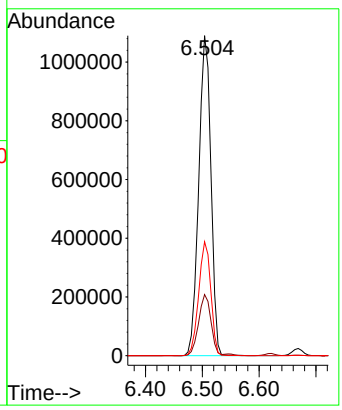




#7
Phenol-d6
Concen: 104.263 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 99 Resp: 162571

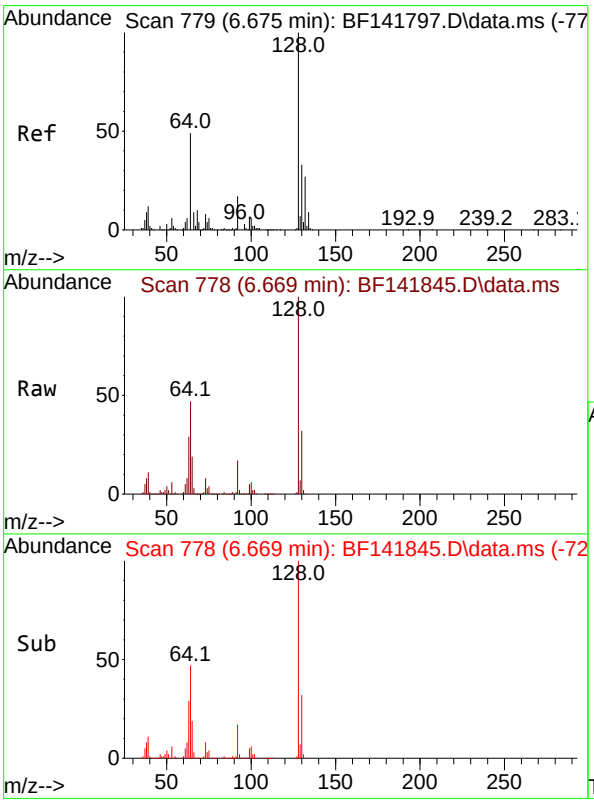
Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.2	22.8
71	35.6	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

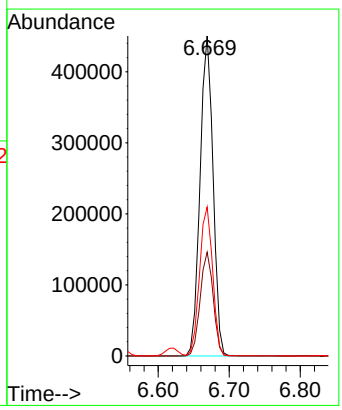
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

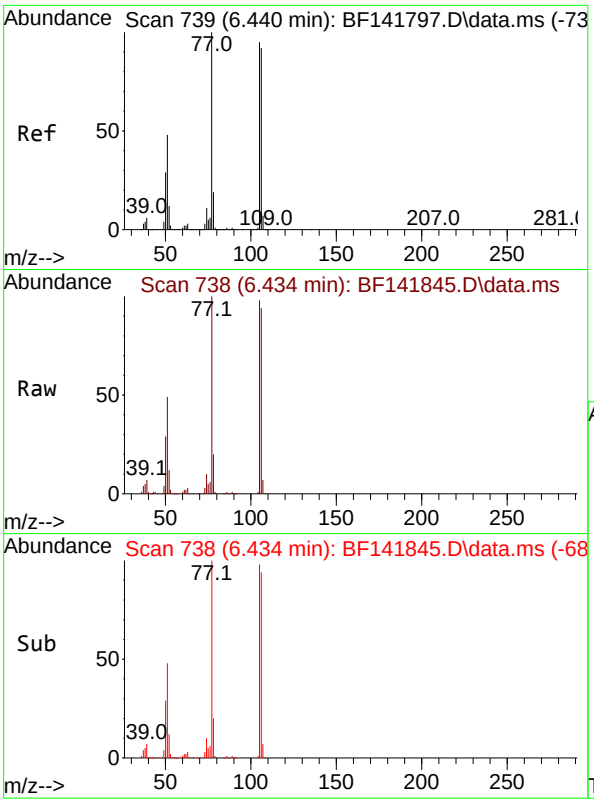


#8
2-Chlorophenol
Concen: 44.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:128 Resp: 575056

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.6	52.6
64	46.5	31.1	71.1

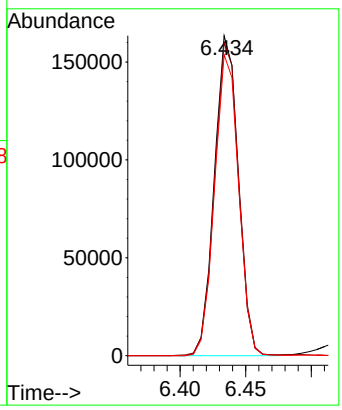




#9
Benzaldehyde
Concen: 22.785 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 20665

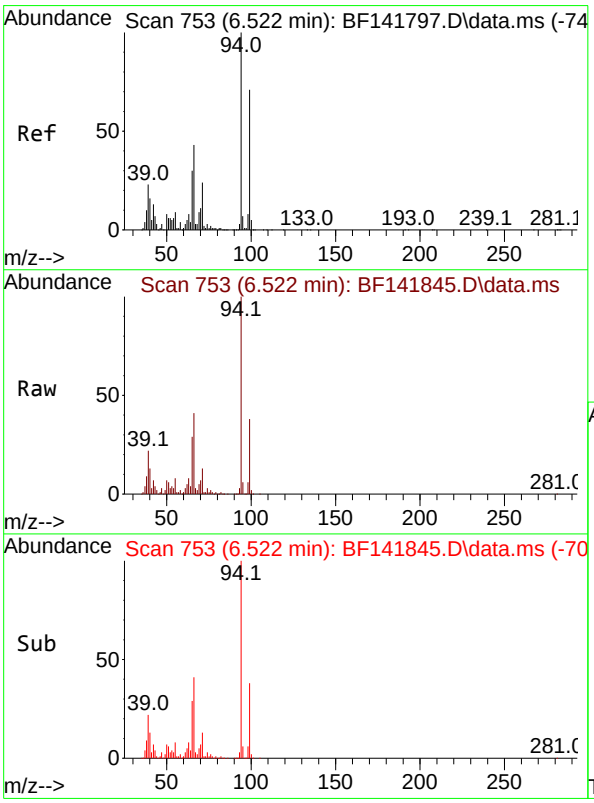
Ion	Ratio	Lower	Upper
77	100		
105	97.8	75.3	115.3
106	94.0	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

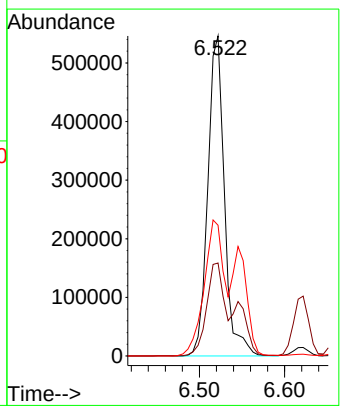
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

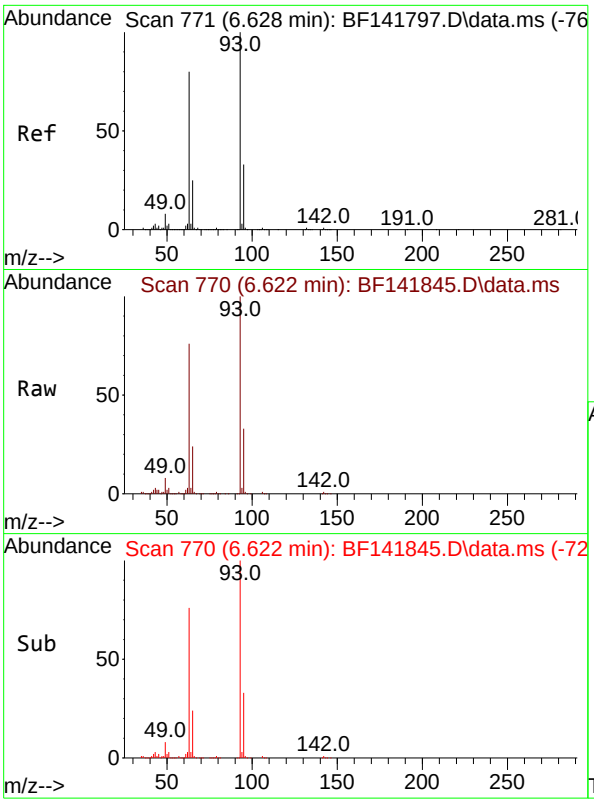


#10
Phenol
Concen: 44.504 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 94 Resp: 741516

Ion	Ratio	Lower	Upper
94	100		
65	29.1	10.2	50.2
66	40.8	23.2	63.2

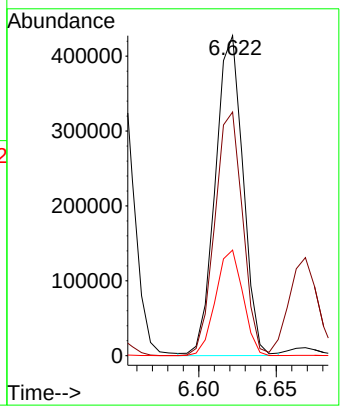




#11
bis(2-Chloroethyl)ether
Concen: 41.835 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 53133

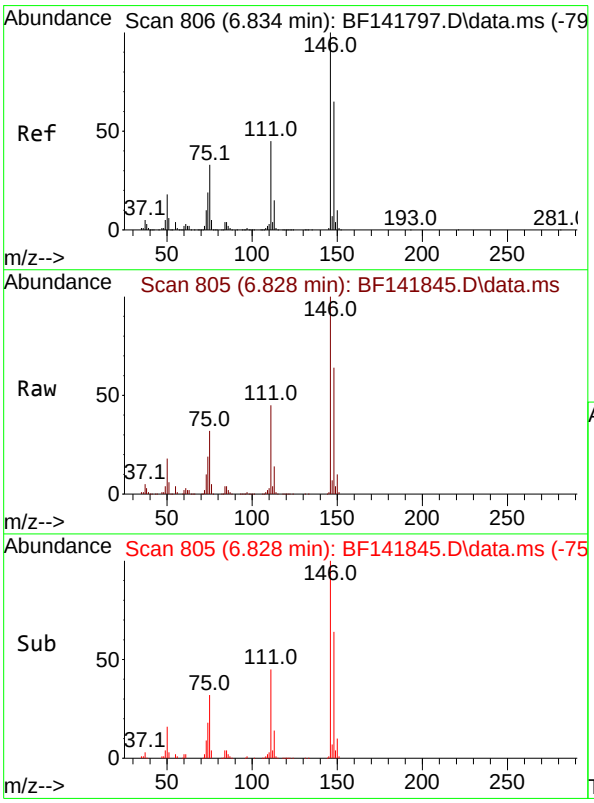
Ion	Ratio	Lower	Upper
93	100		
63	76.2	59.3	99.3
95	33.0	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

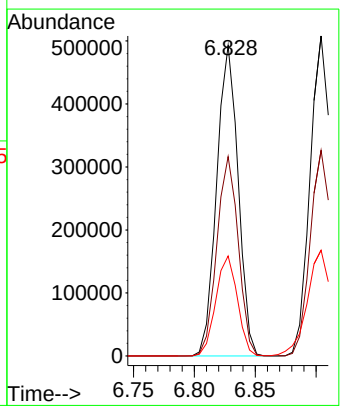
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

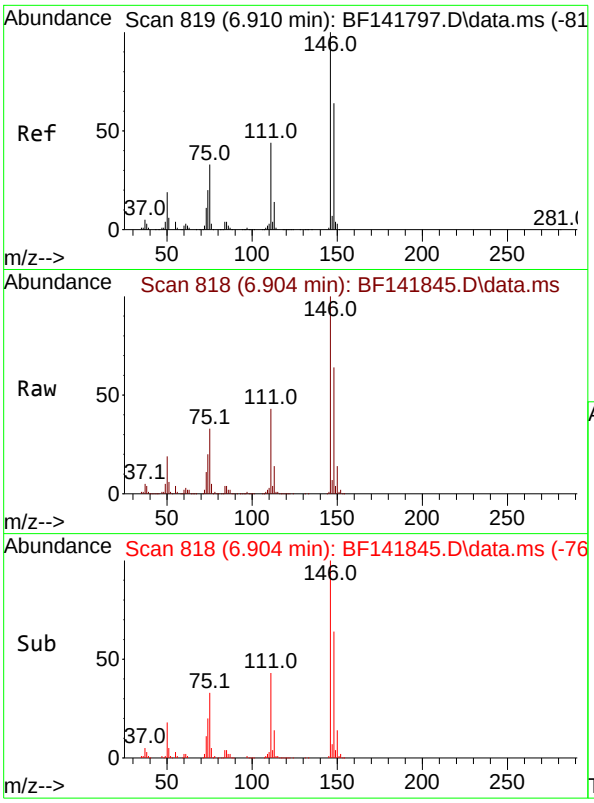


#12
1,3-Dichlorobenzene
Concen: 43.499 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 603684

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.8	77.6
75	32.2	26.2	39.4

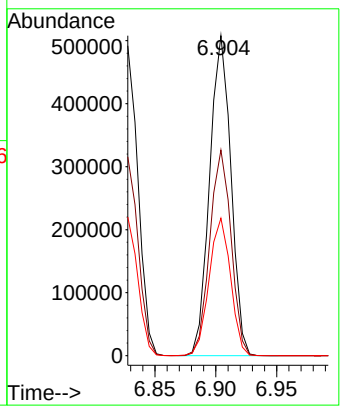




#13
1,4-Dichlorobenzene
Concen: 44.080 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 61639

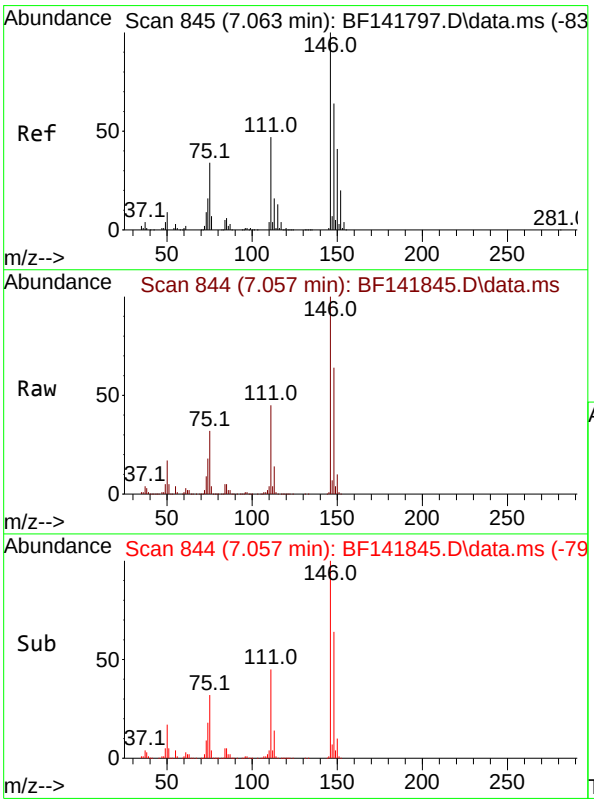
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
111	43.0	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

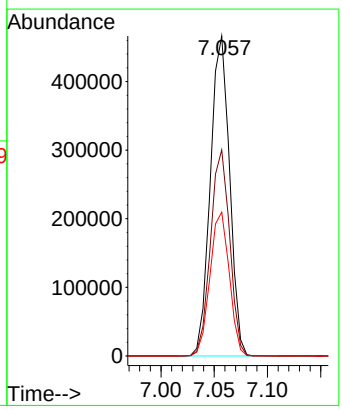
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

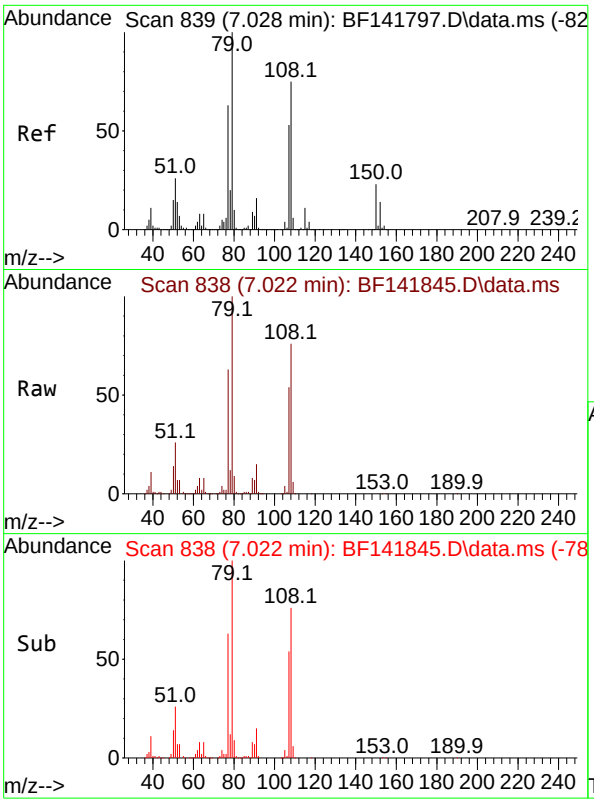


#14
1,2-Dichlorobenzene
Concen: 44.674 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:146 Resp: 583334

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	44.9	37.8	56.6

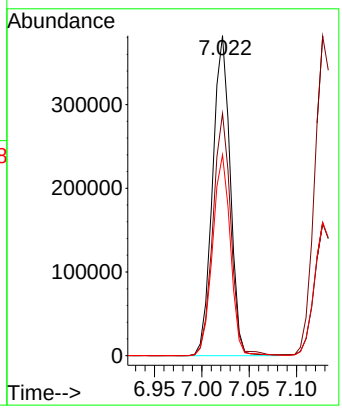




#15
Benzyl Alcohol
Concen: 39.909 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 79 Resp: 49732

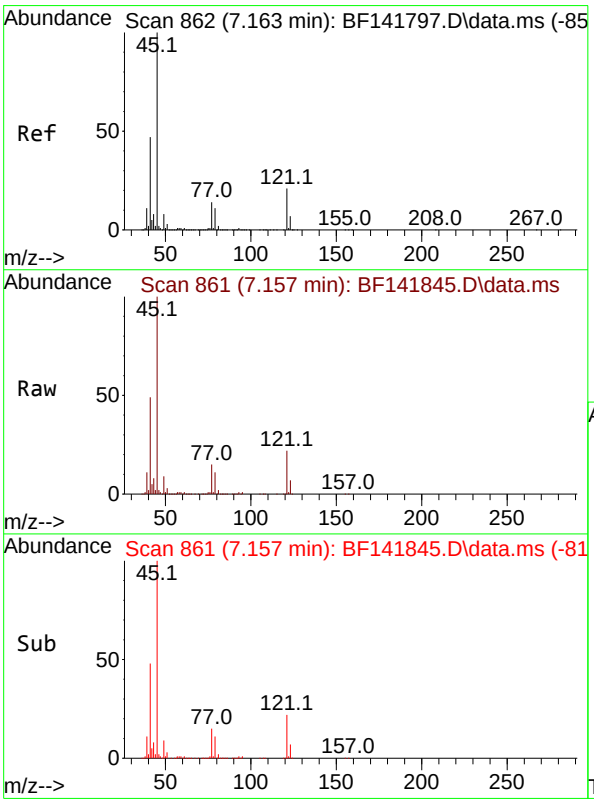
Ion	Ratio	Lower	Upper
79	100		
108	75.7	60.2	90.2
77	62.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

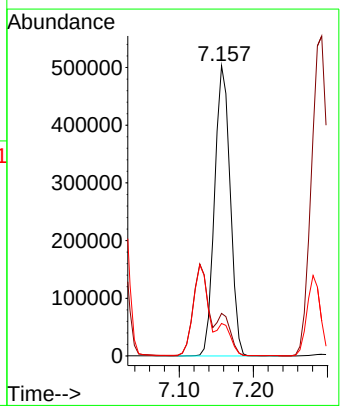
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

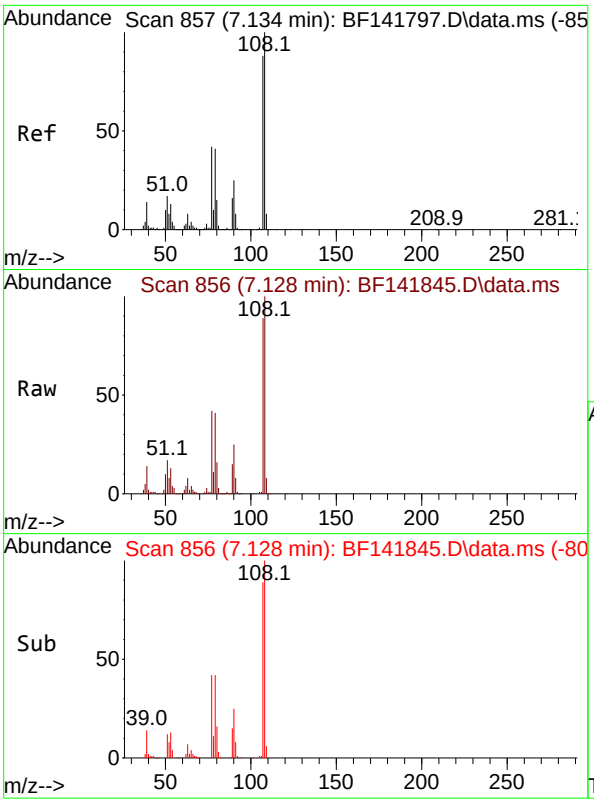


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.031 ng
RT: 7.157 min Scan# 861
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 45 Resp: 733553

Ion	Ratio	Lower	Upper
45	100		
77	14.7	0.0	34.4
79	11.2	0.0	30.9

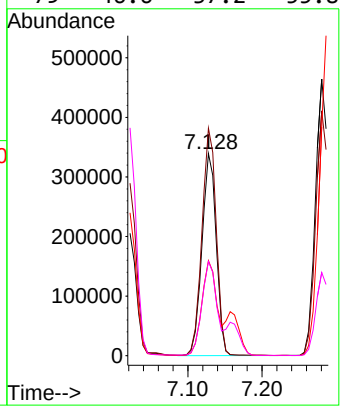




#17
2-Methylphenol
Concen: 42.513 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 45475

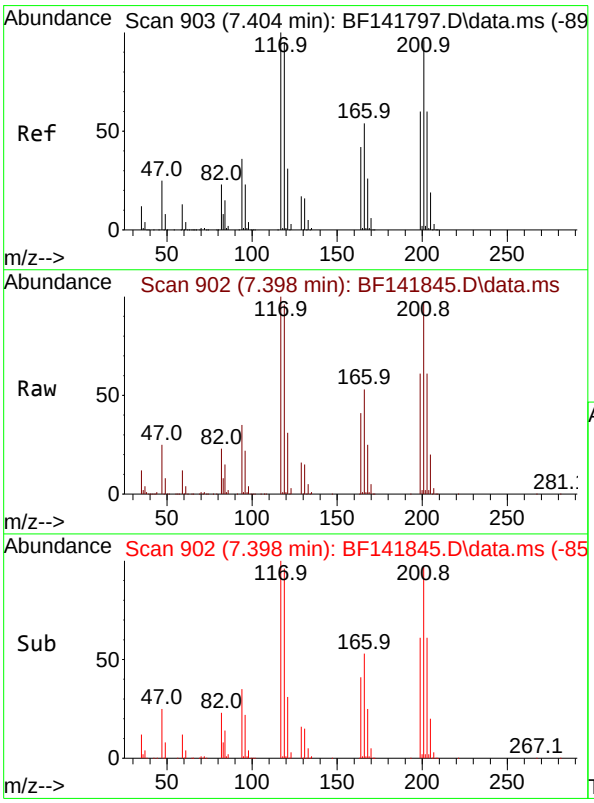
Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.6	135.8
77	47.0	37.7	56.5
79	46.6	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

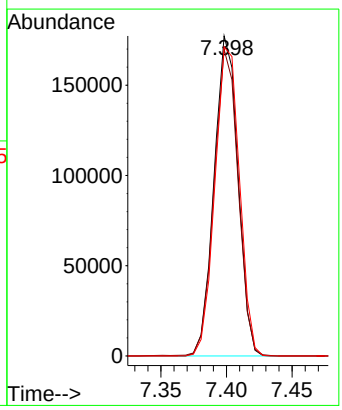
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

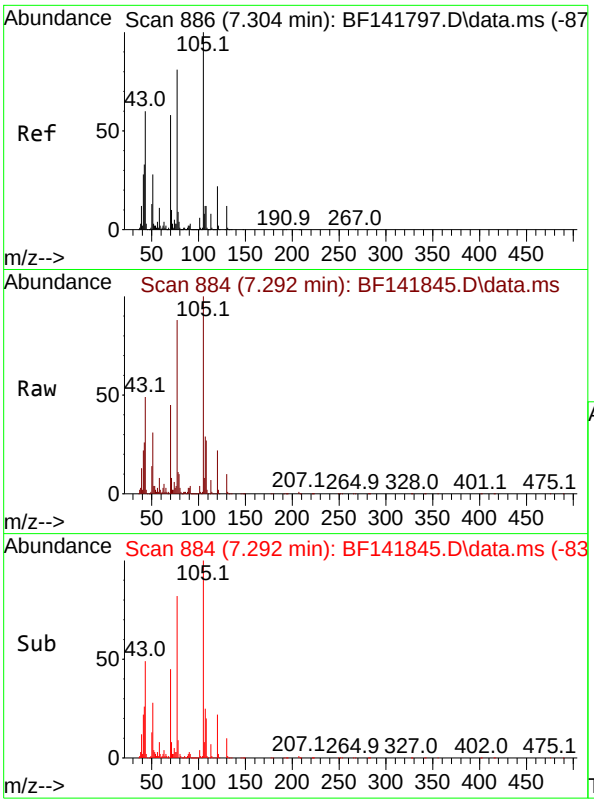


#18
Hexachloroethane
Concen: 42.859 ng
RT: 7.398 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:117 Resp: 224314

Ion	Ratio	Lower	Upper
117	100		
119	95.8	75.8	113.8
201	96.6	76.7	115.1

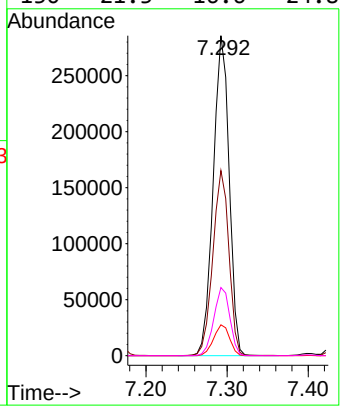




#19
n-Nitroso-di-n-propylamine
Concen: 38.092 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 70 Resp: 39043

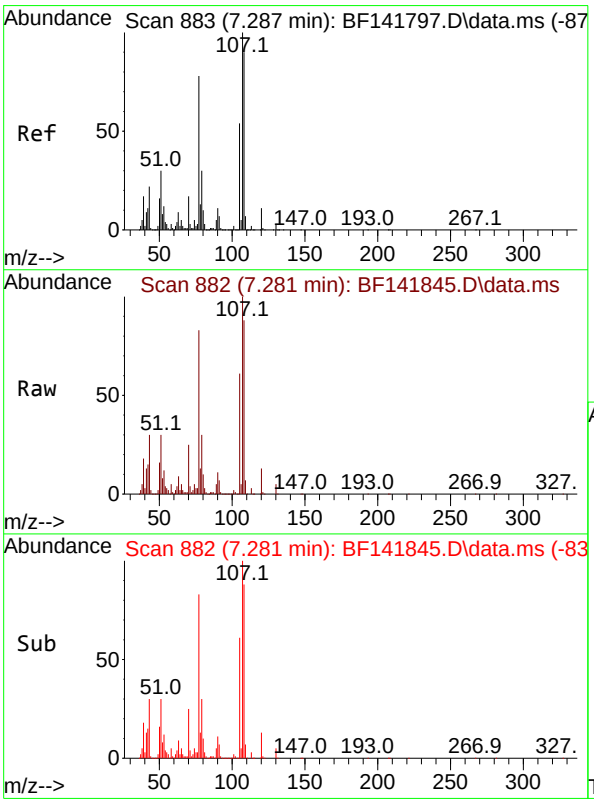
Ion	Ratio	Lower	Upper
70	100		
42	57.8	45.4	68.0
101	9.7	7.8	11.8
130	21.3	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

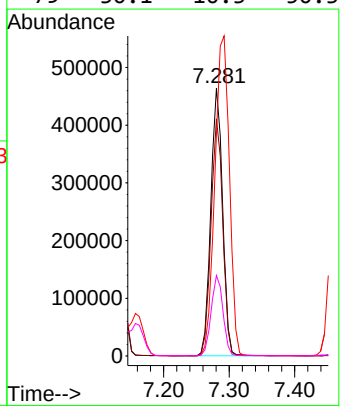
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

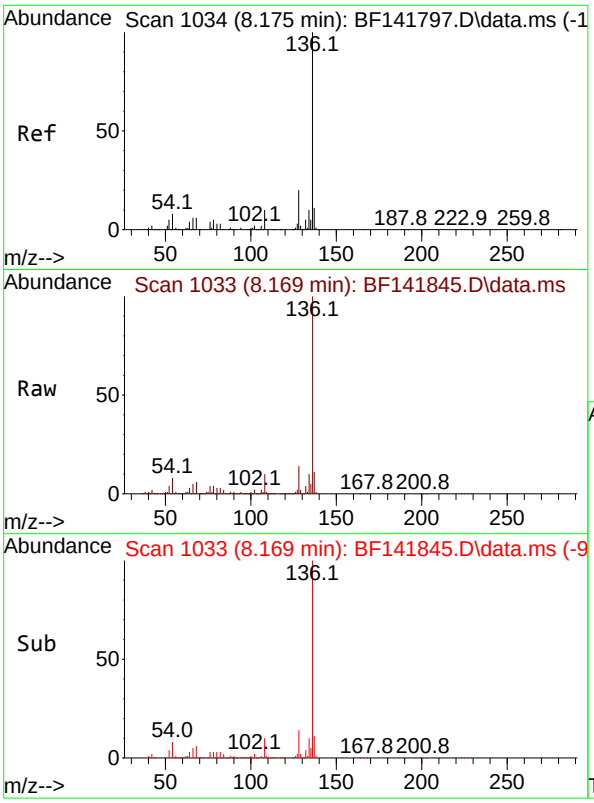


#20
3+4-Methylphenols
Concen: 43.679 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 581786

Ion	Ratio	Lower	Upper
107	100		
108	88.5	69.7	109.7
77	82.7	58.3	98.3
79	30.1	10.3	50.3

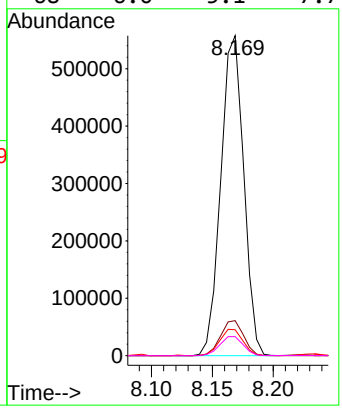




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:136 Resp: 731999

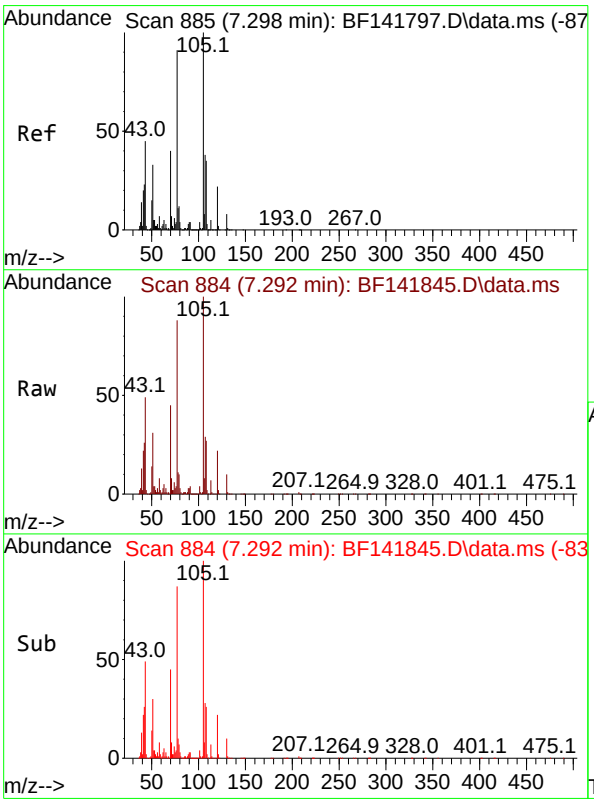
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.1	6.9	10.3
68	6.0	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

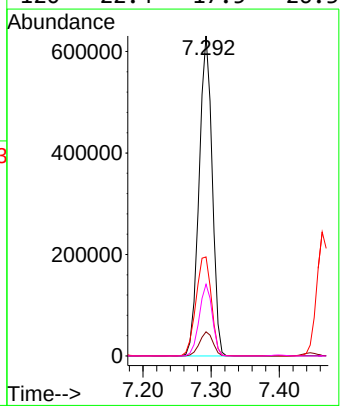
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

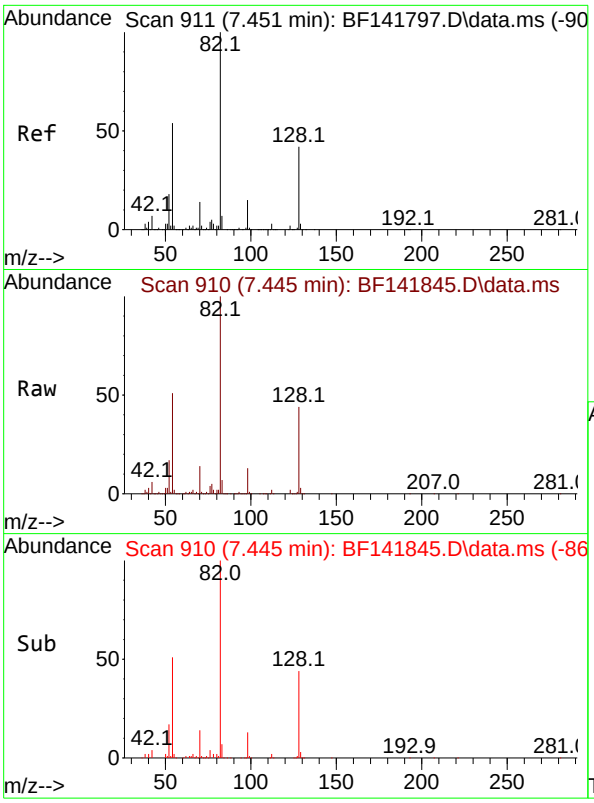


#22
Acetophenone
Concen: 47.275 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:105 Resp: 842821

Ion	Ratio	Lower	Upper
105	100		
71	7.6	5.4	8.0
51	31.0	26.1	39.1
120	22.4	17.5	26.3

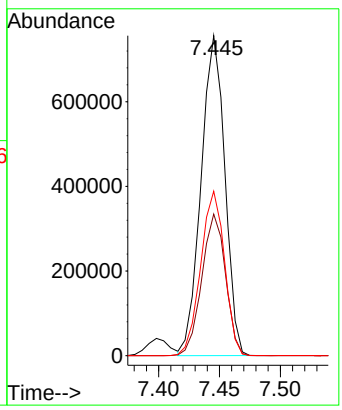




#23
Nitrobenzene-d5
Concen: 89.888 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 82 Resp: 102937

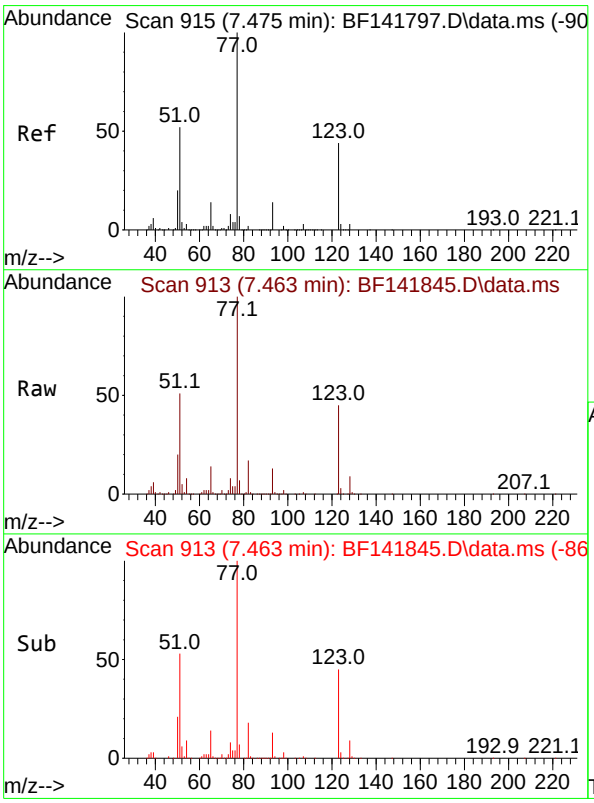
Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.5	50.3
54	51.4	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

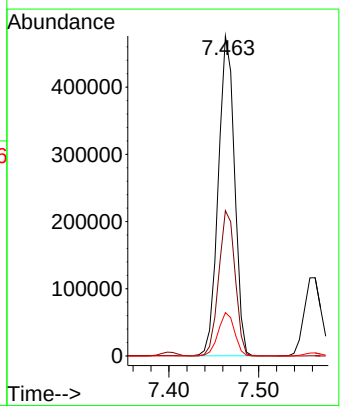
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

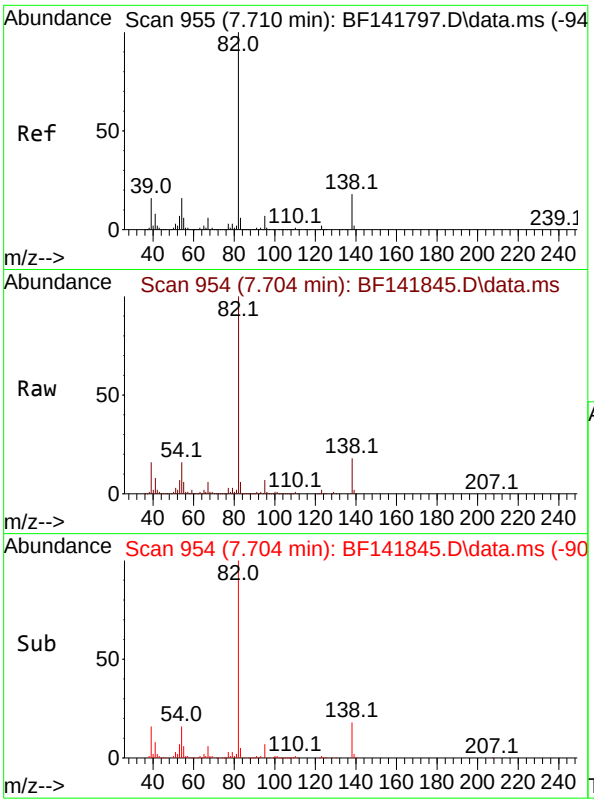


#24
Nitrobenzene
Concen: 48.826 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 598766

Ion	Ratio	Lower	Upper
77	100		
123	45.4	35.8	53.8
65	13.5	11.2	16.8

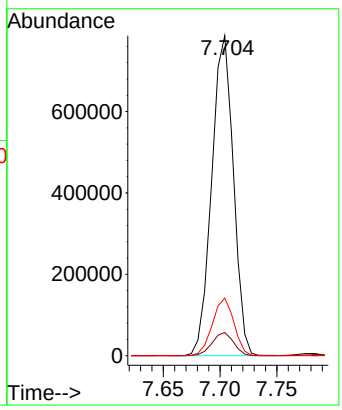




#25
Isophorone
Concen: 42.481 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 82 Resp: 104512

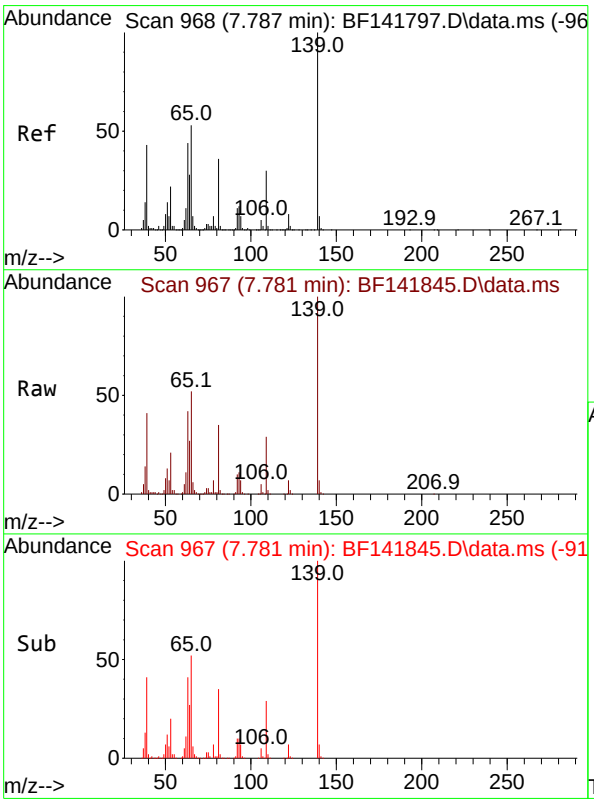
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.0	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

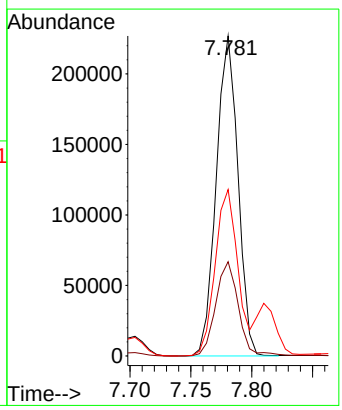
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

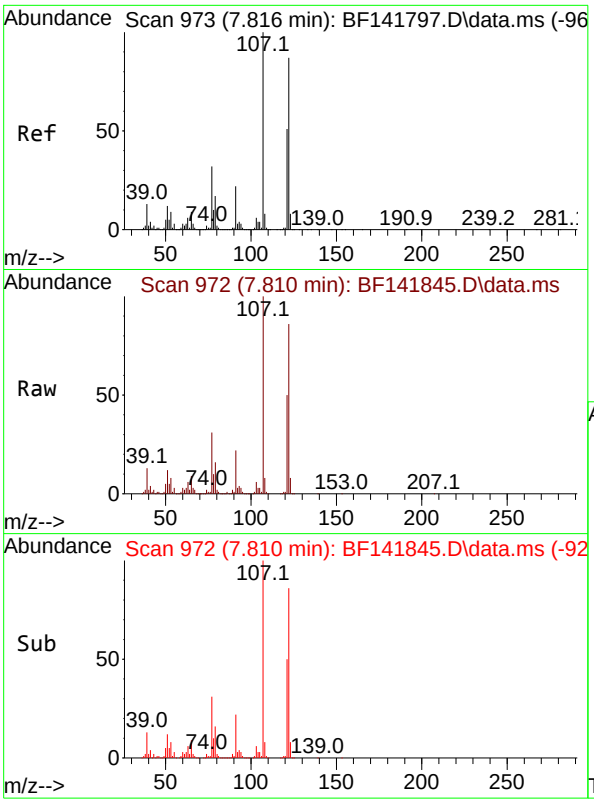


#26
2-Nitrophenol
Concen: 51.099 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:139 Resp: 281708

Ion	Ratio	Lower	Upper
139	100		
109	29.4	24.1	36.1
65	52.0	42.3	63.5

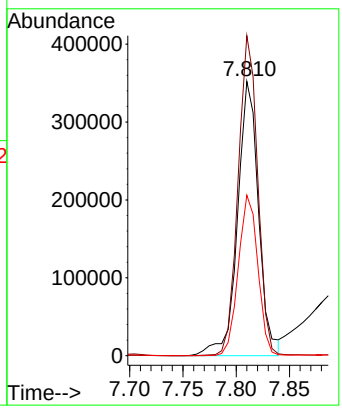




#27
2,4-Dimethylphenol
Concen: 53.613 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:122 Resp: 48486

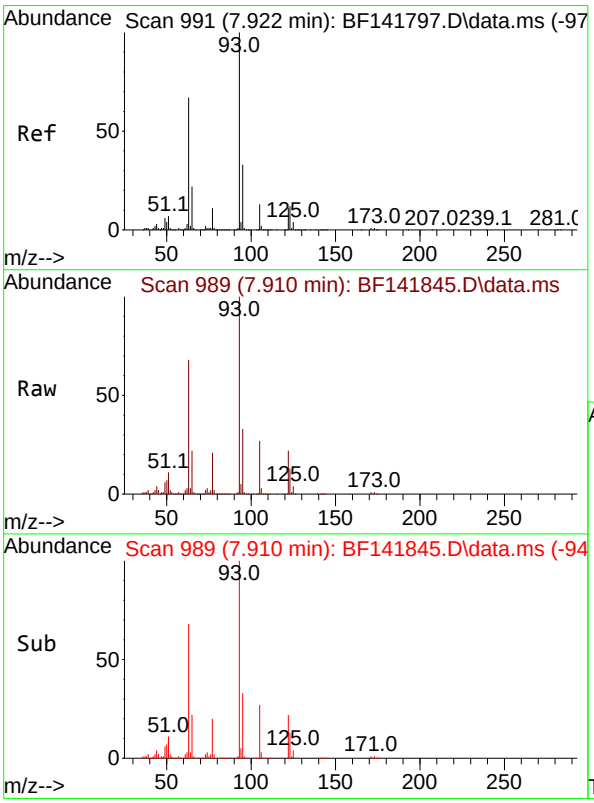
Ion	Ratio	Lower	Upper
122	100		
107	116.7	92.5	138.7
121	58.5	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

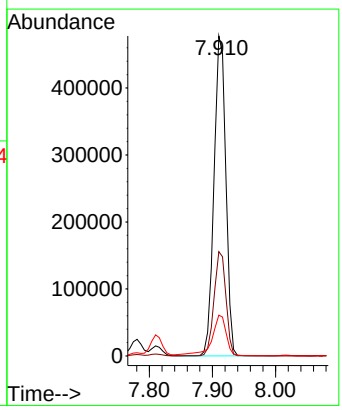
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

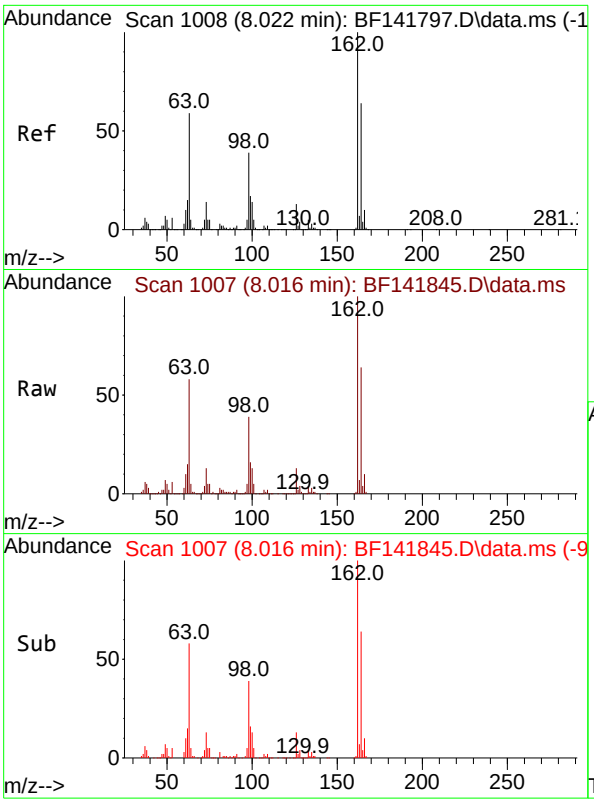


#28
bis(2-Chloroethoxy)methane
Concen: 39.625 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 93 Resp: 621875

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.5	39.7
123	12.8	10.0	15.0

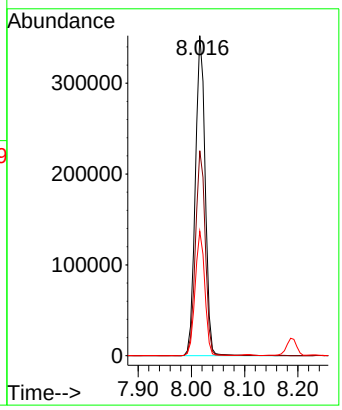




#29
2,4-Dichlorophenol
Concen: 43.378 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:162 Resp: 45256

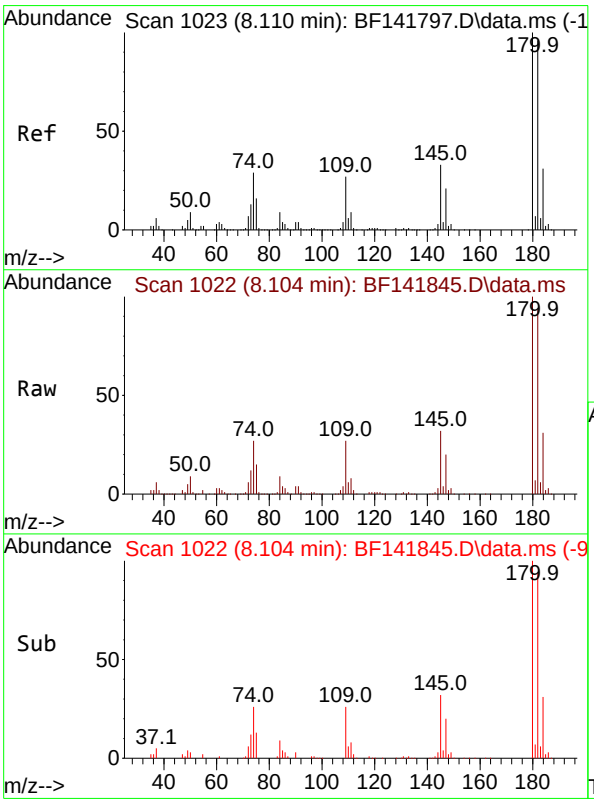
Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.3	84.3
98	38.9	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

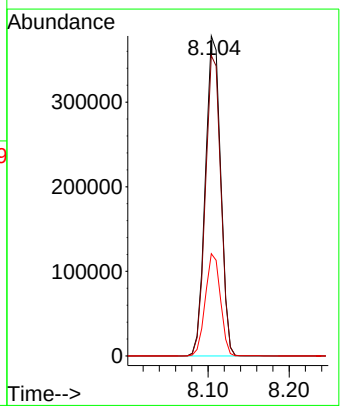
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

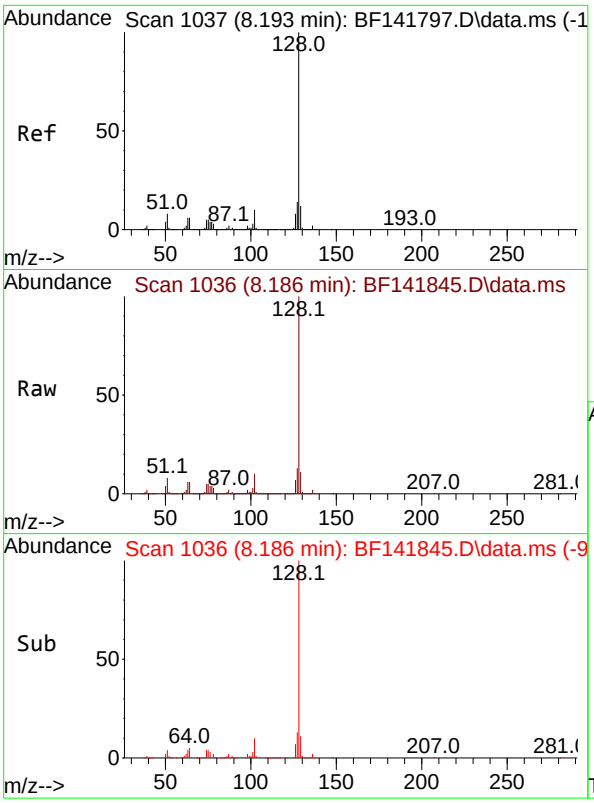


#30
1,2,4-Trichlorobenzene
Concen: 43.300 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:180 Resp: 495020

Ion	Ratio	Lower	Upper
180	100		
182	93.9	76.8	115.2
145	32.0	26.4	39.6

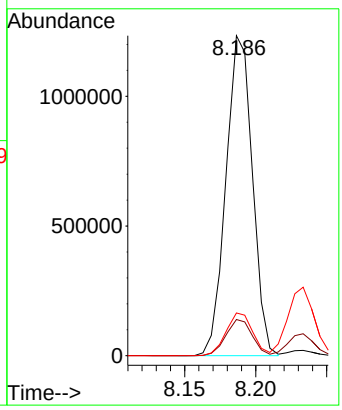




#31
Naphthalene
Concen: 42.475 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:128 Resp: 159799

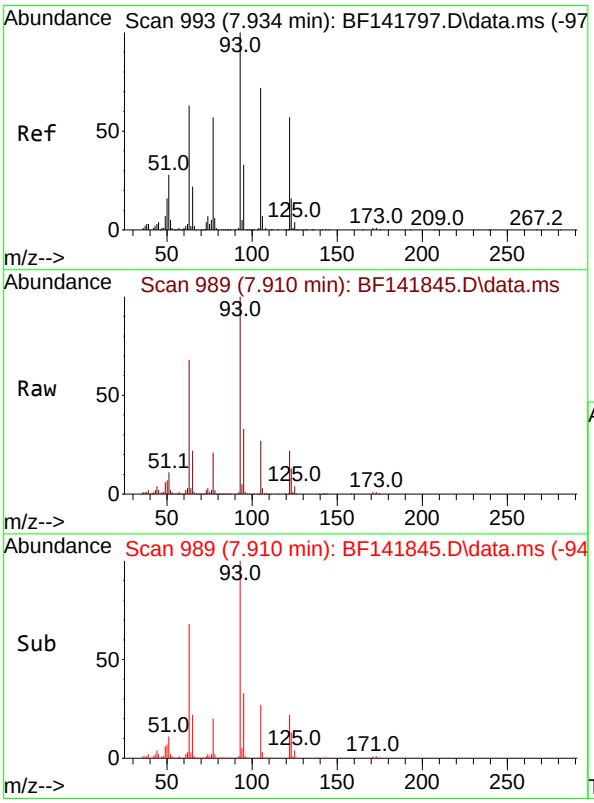
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.4	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

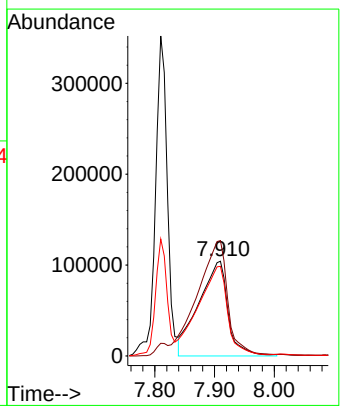
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

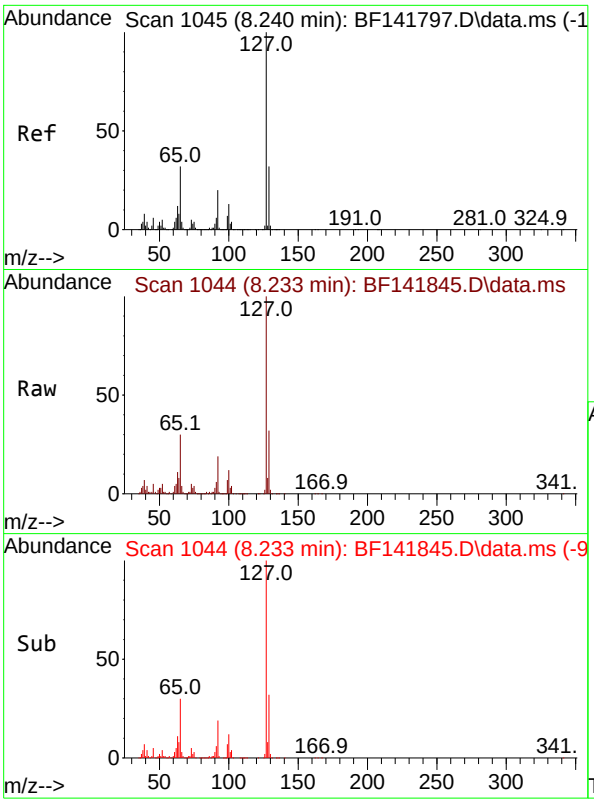


#32
Benzoic acid
Concen: 47.372 ng m
RT: 7.910 min Scan# 989
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:122 Resp: 356667

Ion	Ratio	Lower	Upper
122	100		
105	121.9	105.8	145.8
77	94.6	79.9	119.9

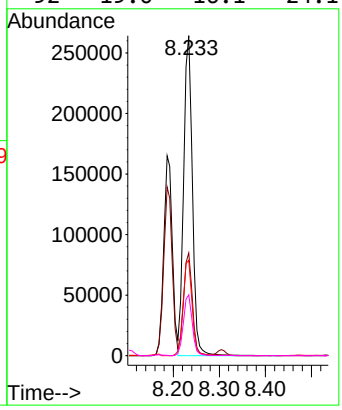




#33
4-Chloroaniline
Concen: 25.186 ng
RT: 8.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:127 Resp: 34742

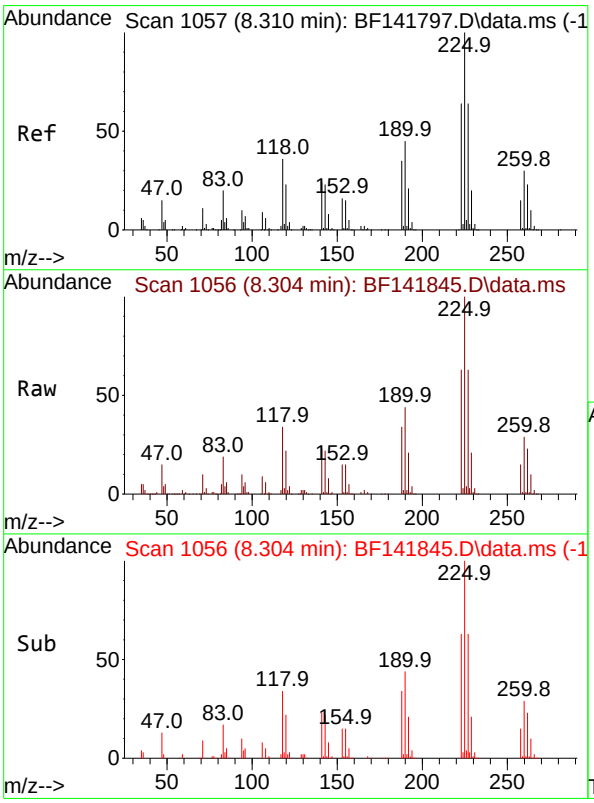
Ion	Ratio	Lower	Upper
127	100		
129	32.1	26.1	39.1
65	29.8	25.7	38.5
92	19.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

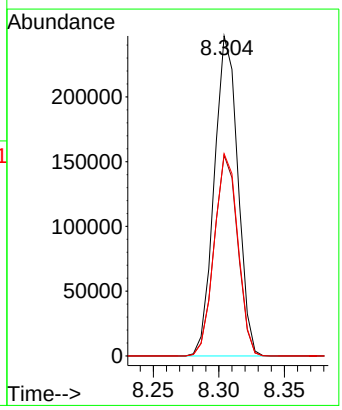
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

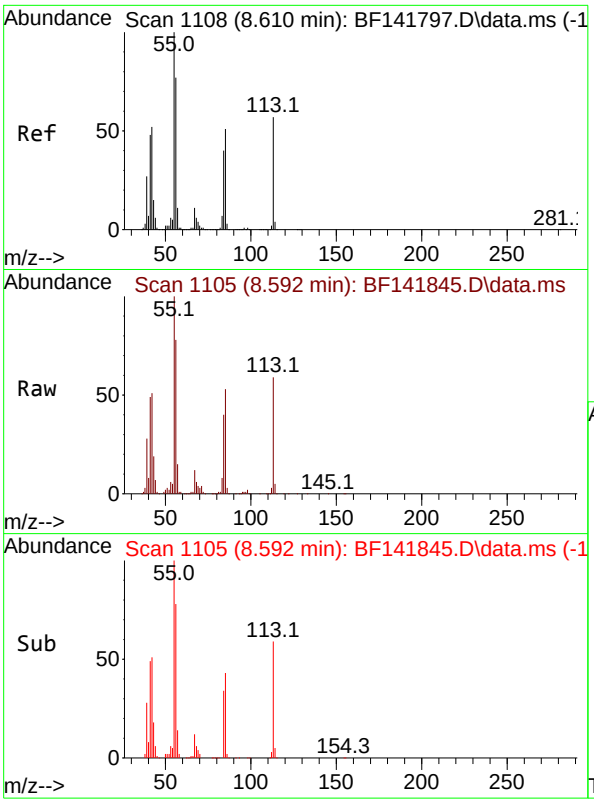


#34
Hexachlorobutadiene
Concen: 43.322 ng
RT: 8.304 min Scan# 1056
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:225 Resp: 307767

Ion	Ratio	Lower	Upper
225	100		
223	62.8	51.4	77.2
227	63.2	51.6	77.4





#35
Caprolactam
Concen: 51.613 ng
RT: 8.592 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

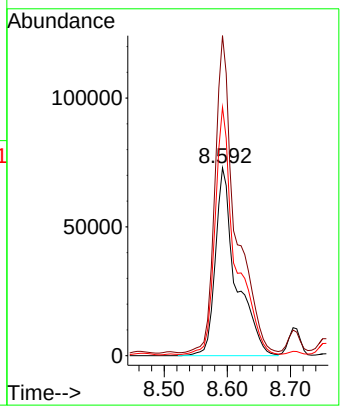
Tgt Ion:113 Resp: 16565

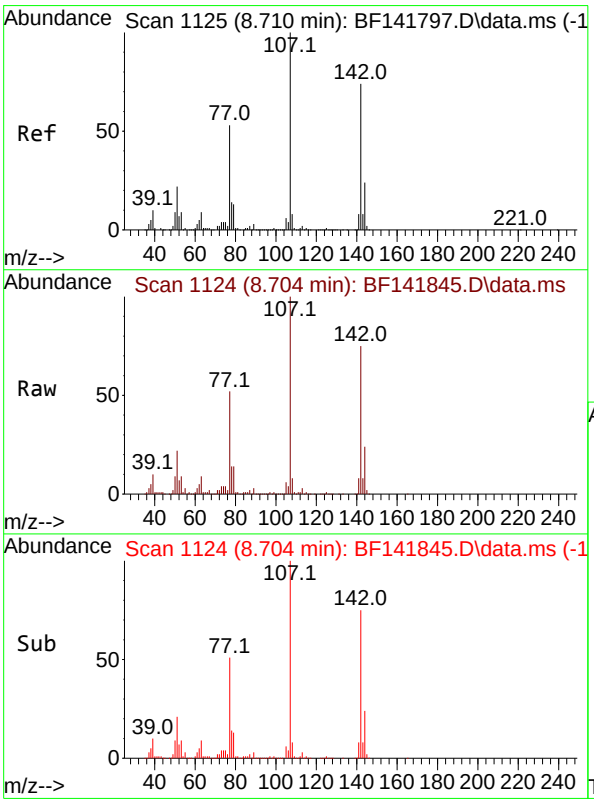
Ion	Ratio	Lower	Upper
113	100		
55	170.4	155.6	195.6
56	132.3	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

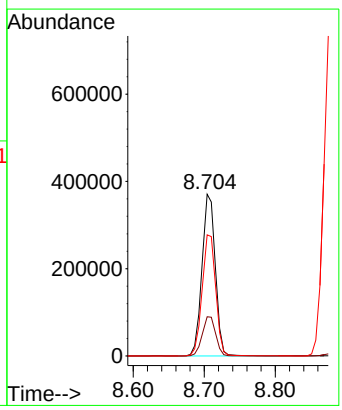


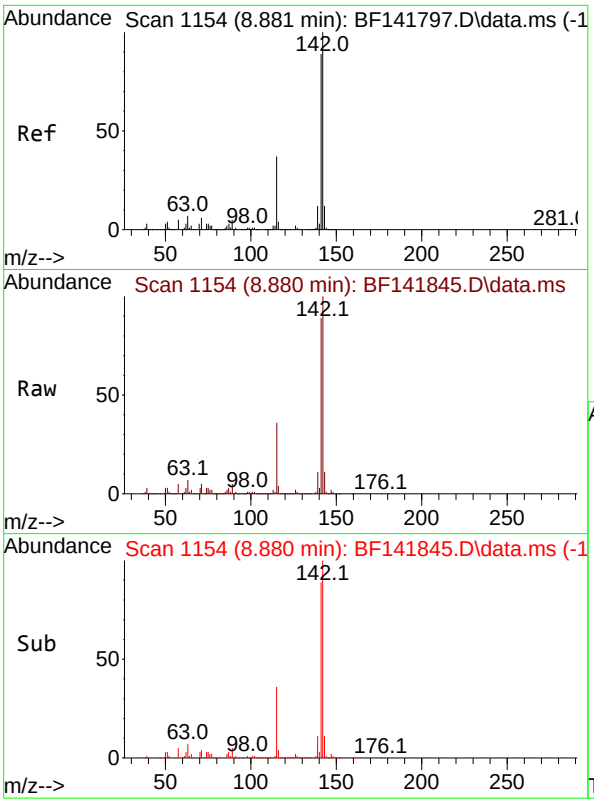


#36
4-Chloro-3-methylphenol
Concen: 41.874 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:107 Resp: 485311

Ion	Ratio	Lower	Upper
107	100		
144	24.2	19.4	29.0
142	74.9	59.4	89.0

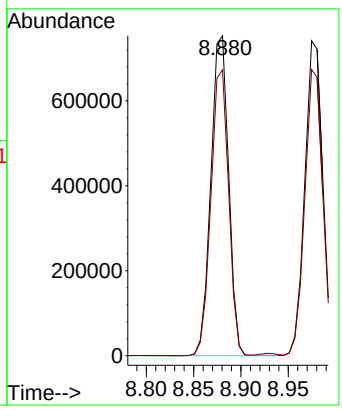




#37
2-Methylnaphthalene
Concen: 39.744 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:142 Resp: 98075

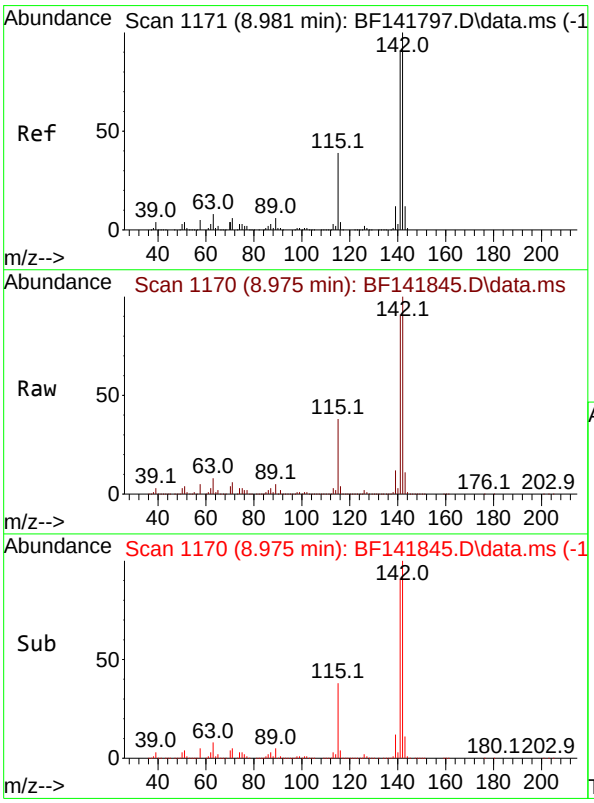
Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

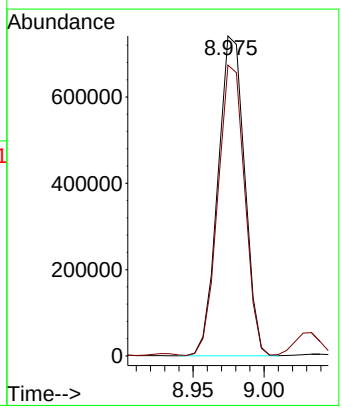
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

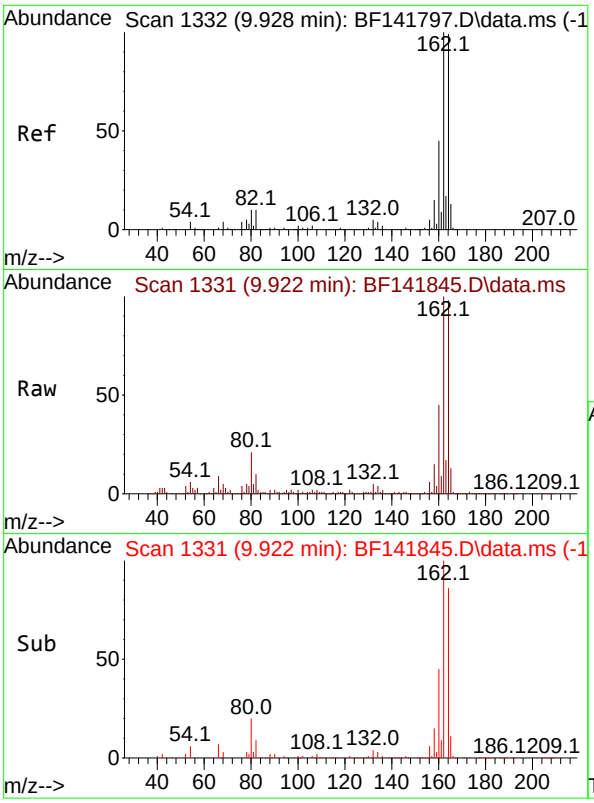


#38
1-Methylnaphthalene
Concen: 40.974 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:142 Resp: 970185

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.1	109.7

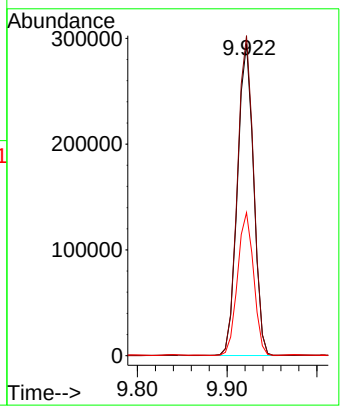




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:164 Resp: 36723

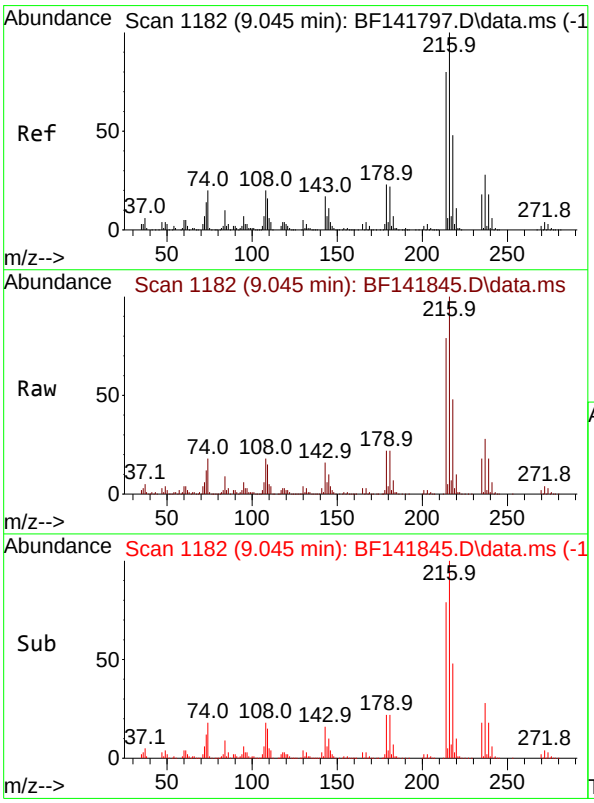
Ion	Ratio	Lower	Upper
164	100		
162	102.5	80.6	120.8
160	45.8	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

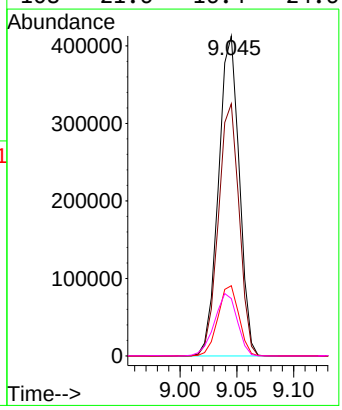
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

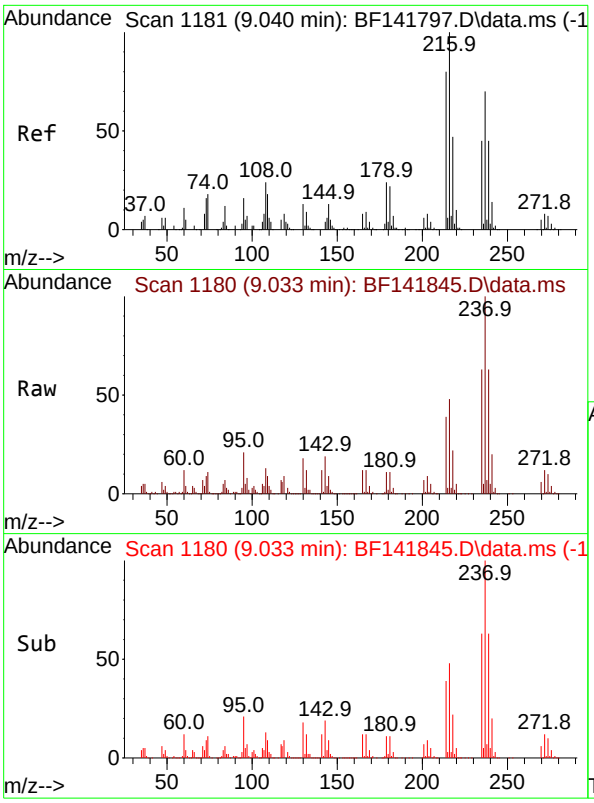


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.478 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:216 Resp: 524773

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.5	95.3
179	22.3	18.1	27.1
108	21.6	16.4	24.6

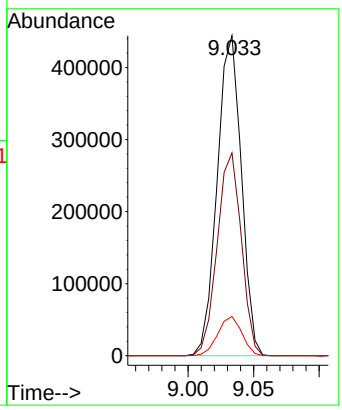




#41
Hexachlorocyclopentadiene
Concen: 128.474 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:237 Resp: 56865

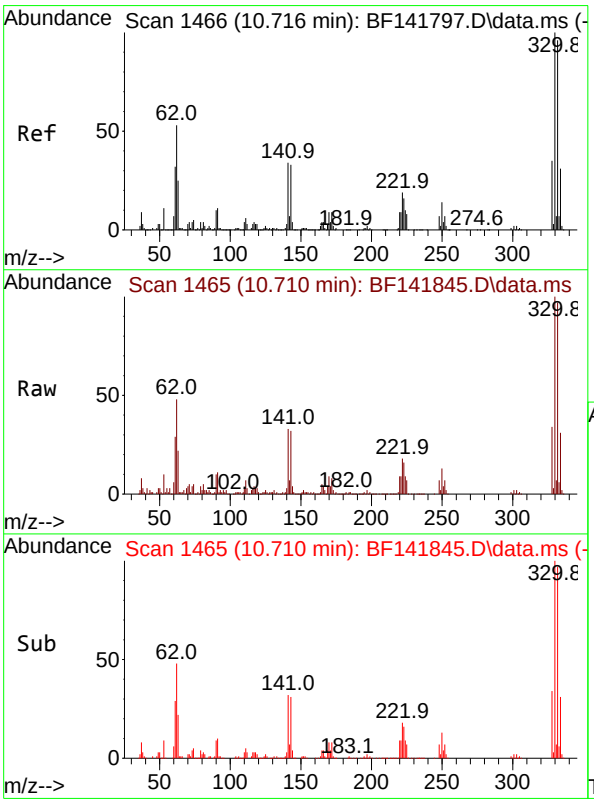
Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	12.2	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

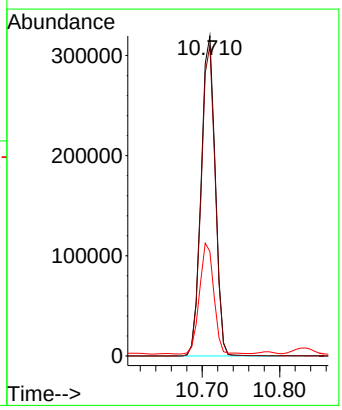
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

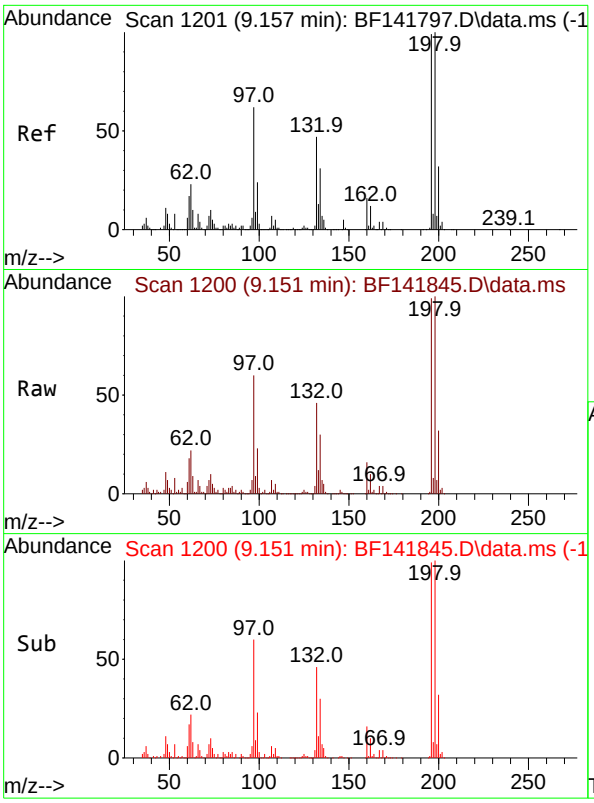


#42
2,4,6-Tribromophenol
Concen: 116.878 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:330 Resp: 402954

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.6	115.0
141	35.2	29.0	43.4





#43
2,4,6-Trichlorophenol
Concen: 46.755 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

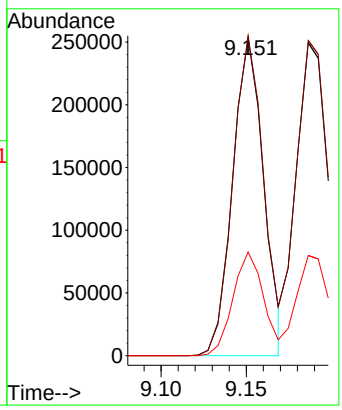
Tgt Ion:196 Resp: 32032

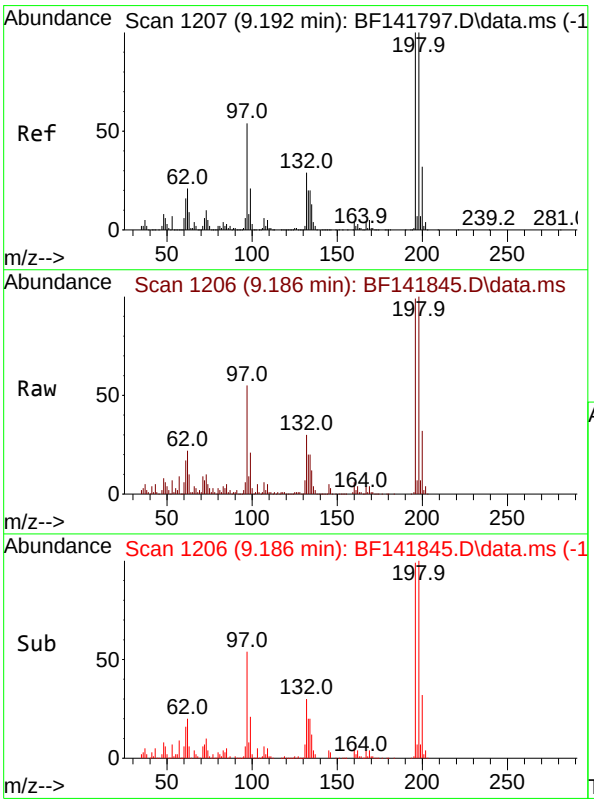
Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.4	120.6
200	32.7	25.7	38.5

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

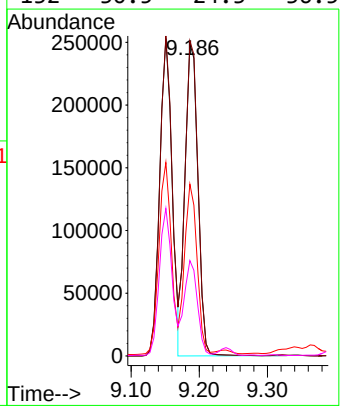


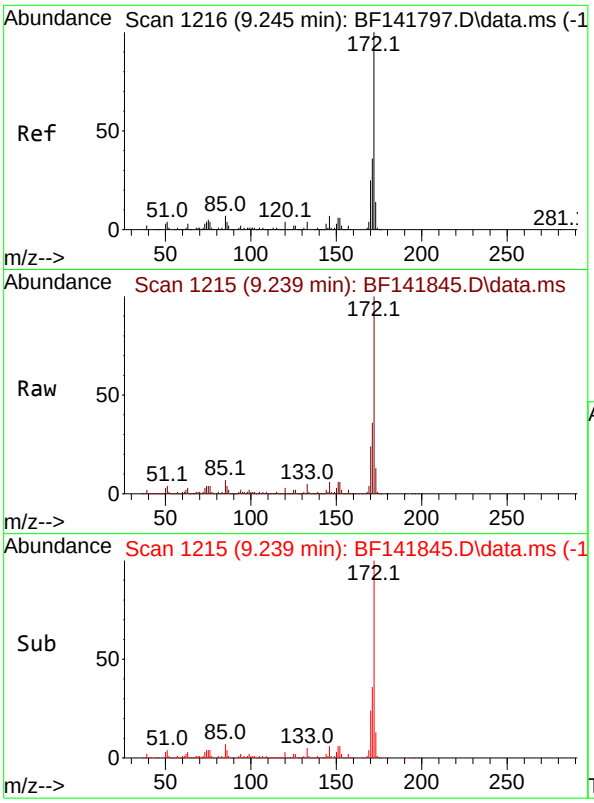


#44
2,4,5-Trichlorophenol
Concen: 48.135 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:196 Resp: 326554

Ion	Ratio	Lower	Upper
196	100		
198	100.7	79.7	119.5
97	54.9	44.2	66.2
132	30.5	24.3	36.5

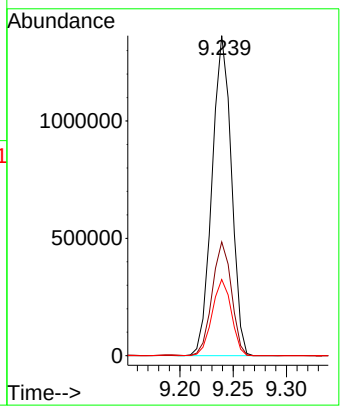




#45
2-Fluorobiphenyl
Concen: 75.048 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:172 Resp: 171879

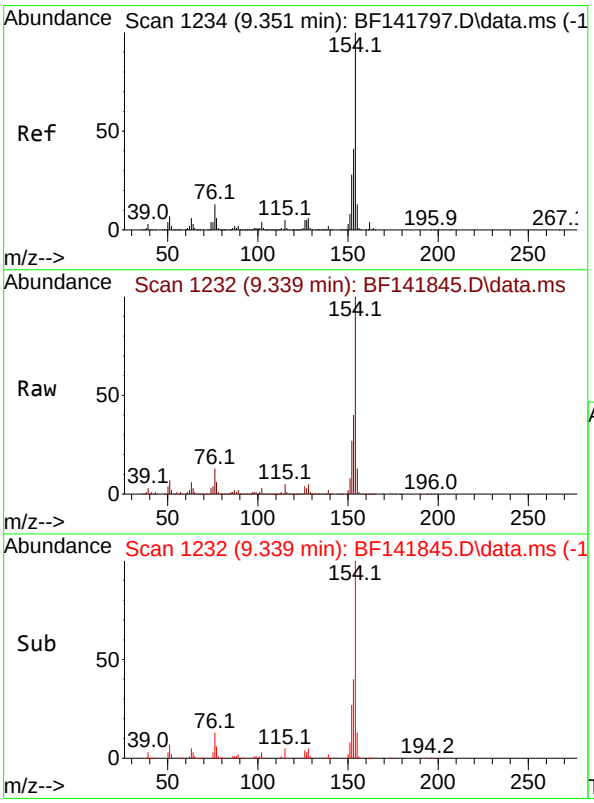
Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.2	43.8
170	23.8	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

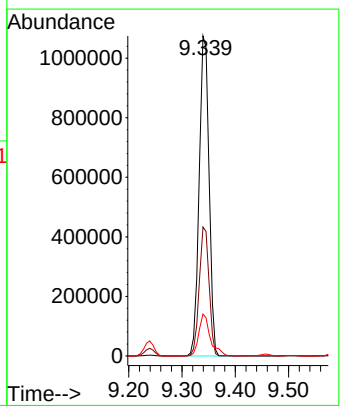
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

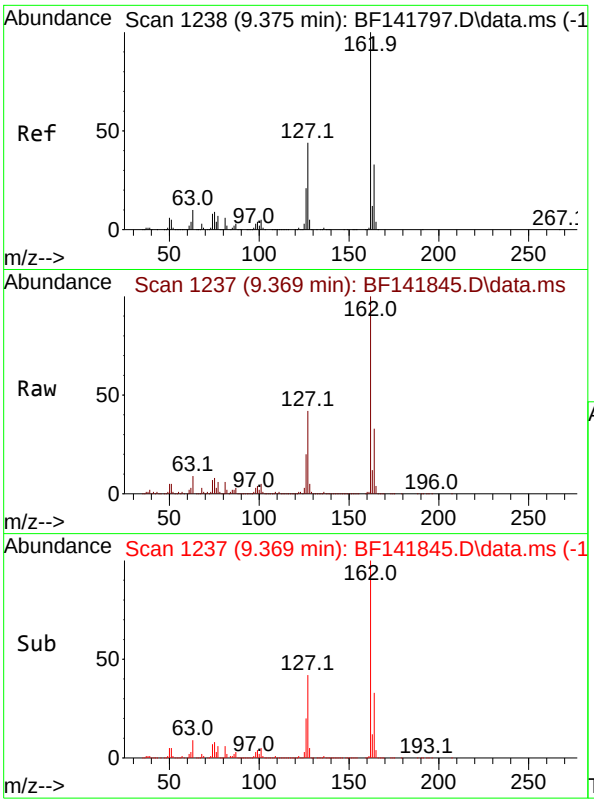


#46
1,1'-Biphenyl
Concen: 49.416 ng
RT: 9.339 min Scan# 1232
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:154 Resp: 1381301

Ion	Ratio	Lower	Upper
154	100		
153	40.3	21.4	61.4
76	13.1	0.0	33.4

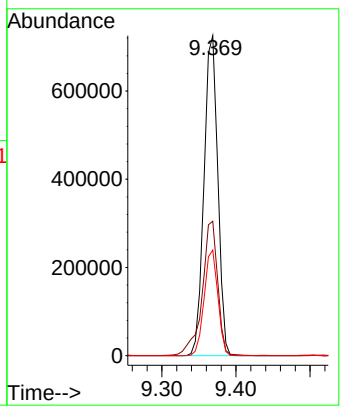




#47
2-Chloronaphthalene
Concen: 45.529 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:162 Resp: 93930

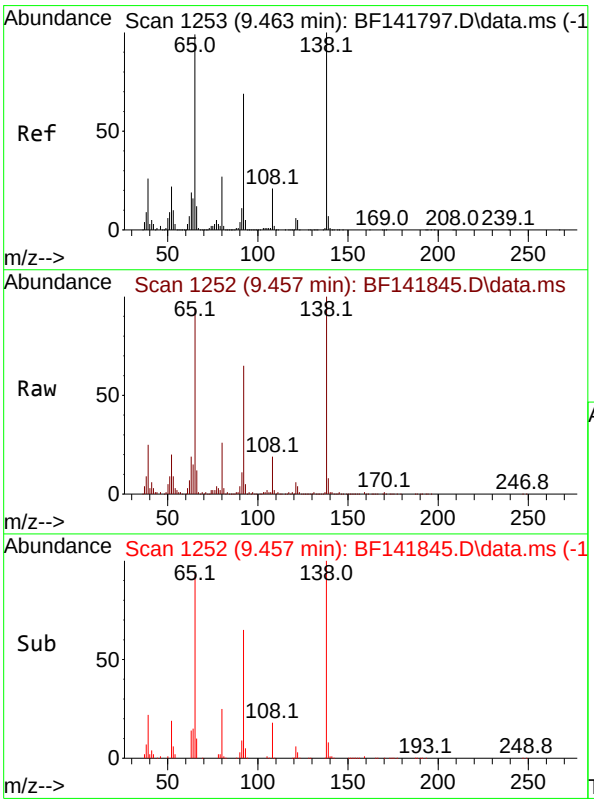
Ion	Ratio	Lower	Upper
162	100		
127	42.0	35.0	52.6
164	33.0	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

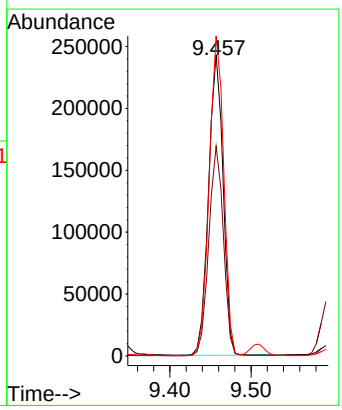
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

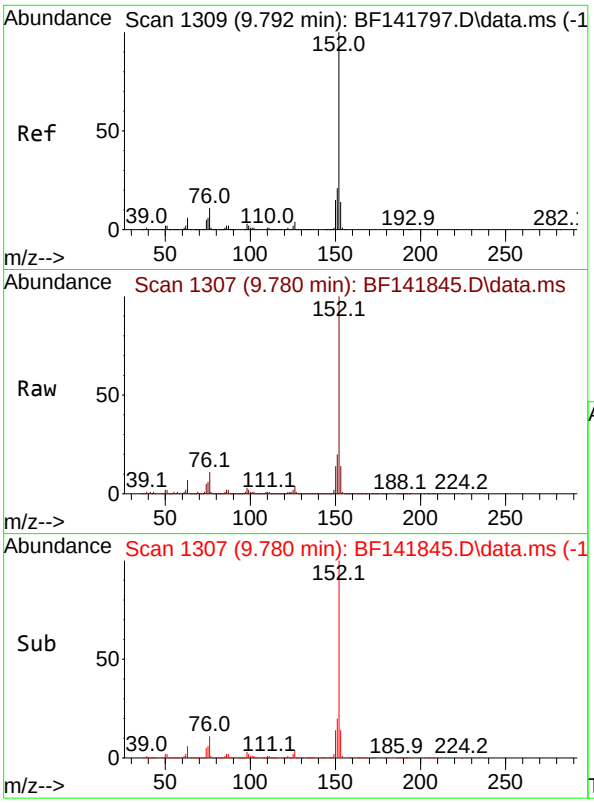


#48
2-Nitroaniline
Concen: 52.958 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 65 Resp: 301849

Ion	Ratio	Lower	Upper
65	100		
92	69.6	55.7	83.5
138	106.2	80.6	121.0

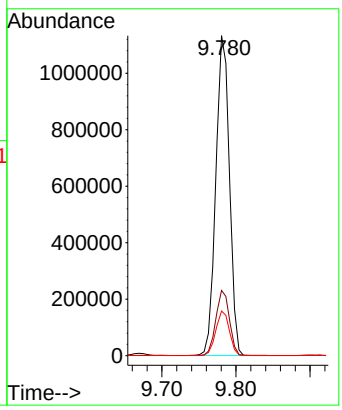




#49
Acenaphthylene
Concen: 46.713 ng
RT: 9.780 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:152 Resp: 144494

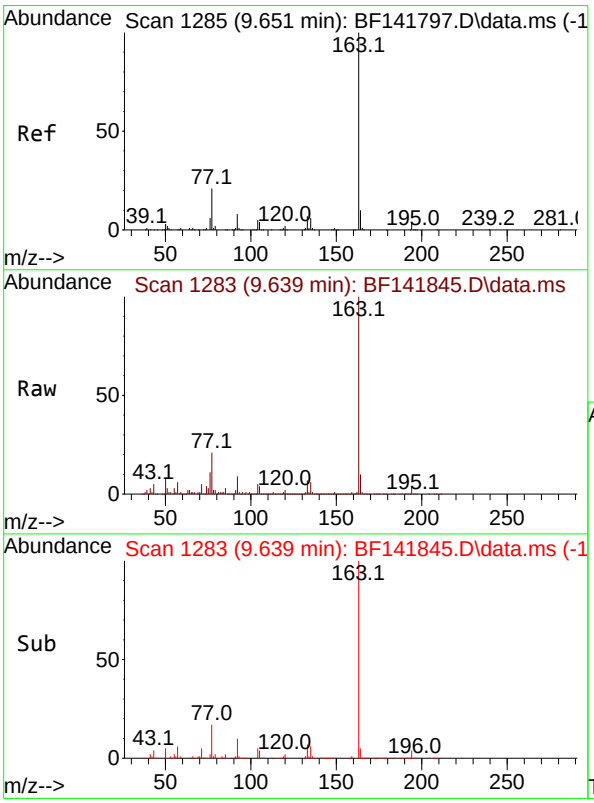
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.6	24.8
153	14.0	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

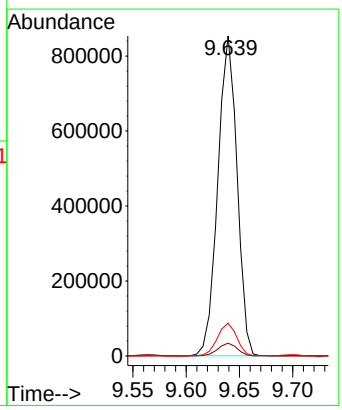
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

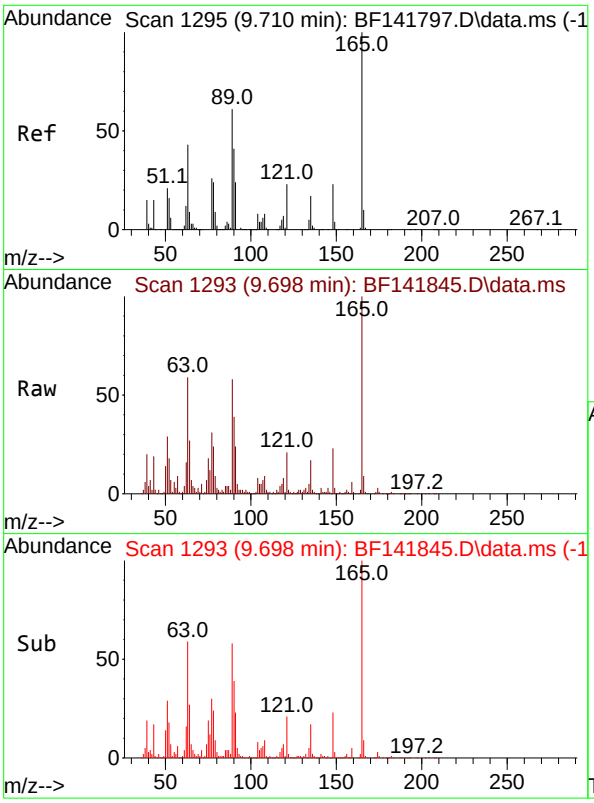


#50
Dimethylphthalate
Concen: 43.481 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:163 Resp: 1069323

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.4	12.6





#51
2,6-Dinitrotoluene
Concen: 49.987 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

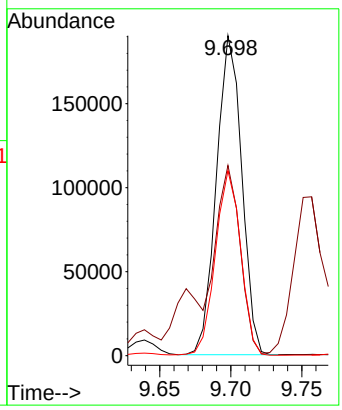
Tgt Ion:165 Resp: 23575

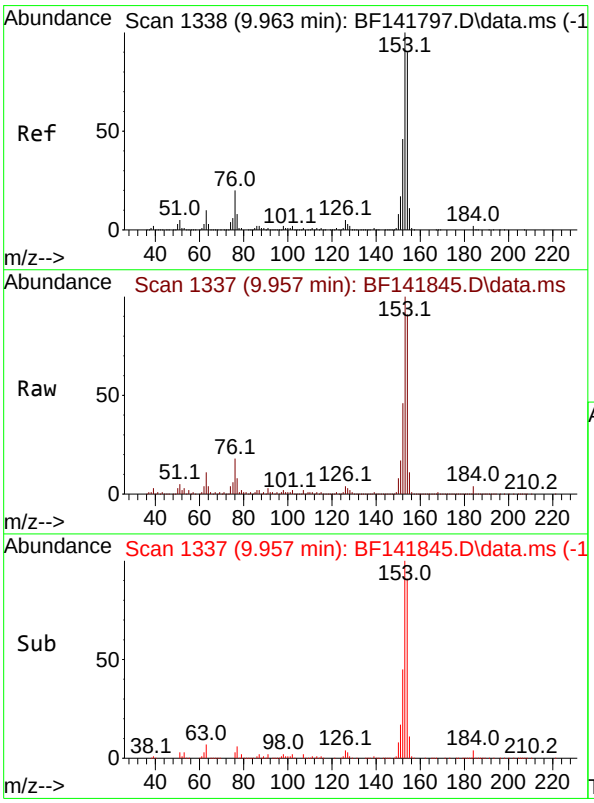
Ion	Ratio	Lower	Upper
165	100		
63	59.4	49.5	74.3
89	57.8	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

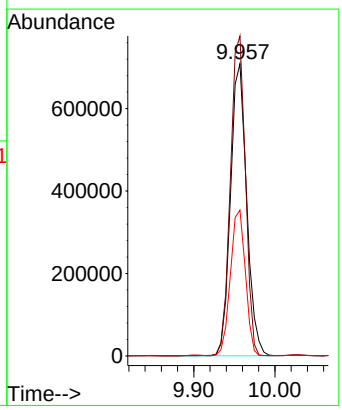


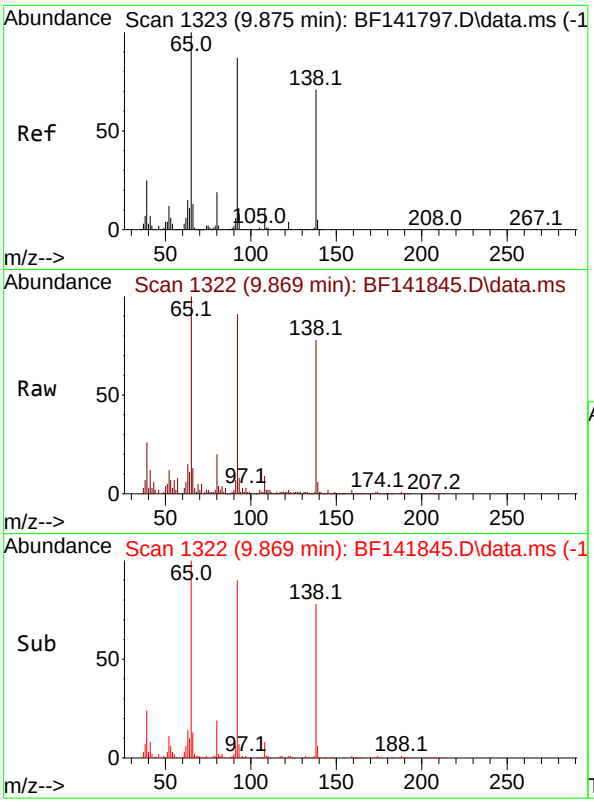


#52
Acenaphthene
Concen: 46.974 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:154 Resp: 980429

Ion	Ratio	Lower	Upper
154	100		
153	109.5	88.7	133.1
152	49.9	40.9	61.3

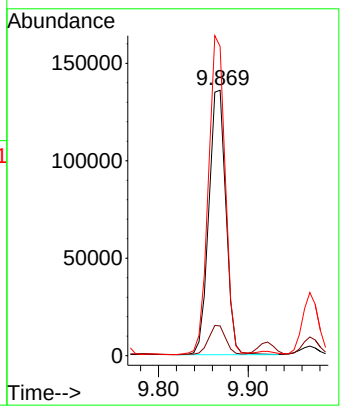




#53
3-Nitroaniline
Concen: 36.508 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:138 Resp: 17915

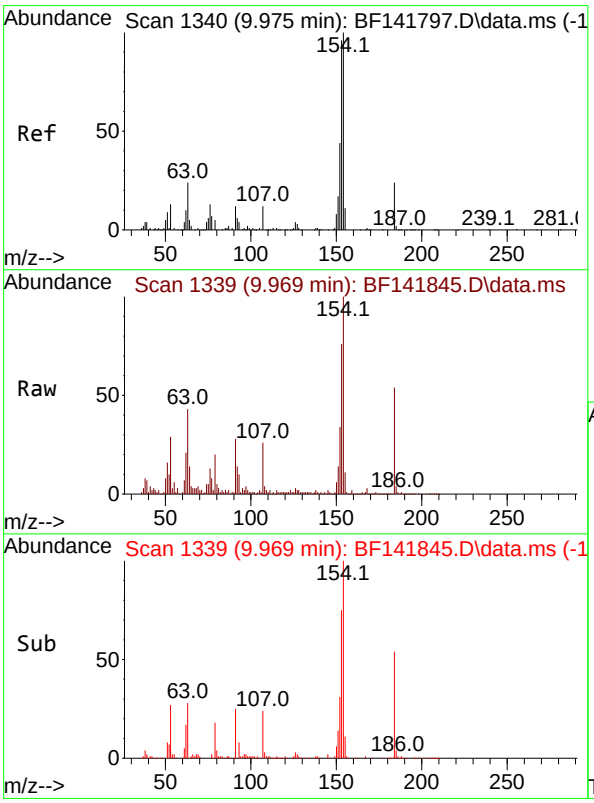
Ion	Ratio	Lower	Upper
138	100		
108	11.2	12.7	19.1#
92	116.4	97.9	146.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

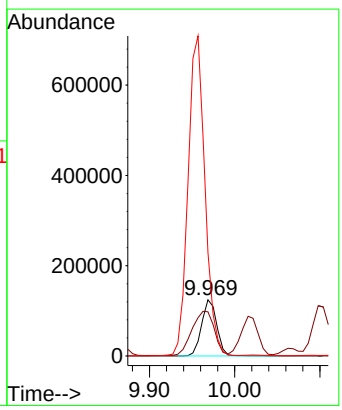
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

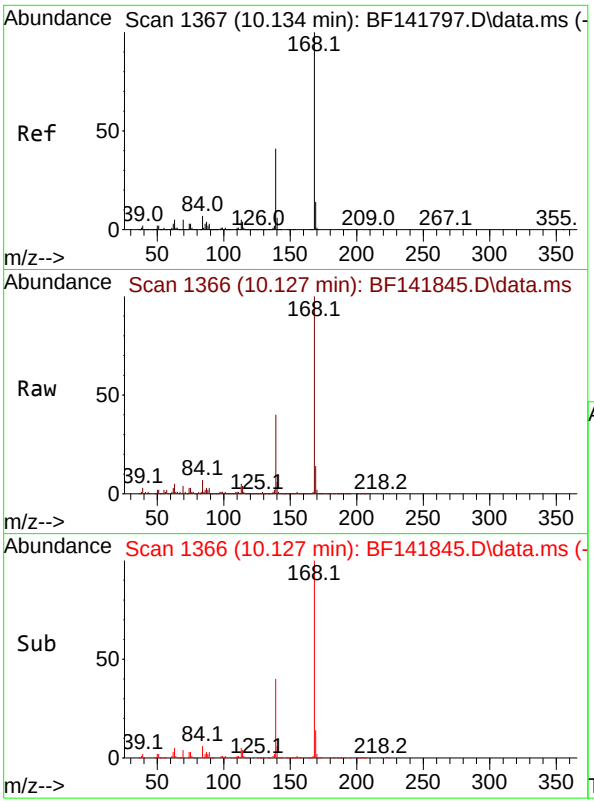


#54
2,4-Dinitrophenol
Concen: 73.318 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:184 Resp: 153518

Ion	Ratio	Lower	Upper
184	100		
63	78.6	79.0	118.6#
154	184.3	335.8	503.8#

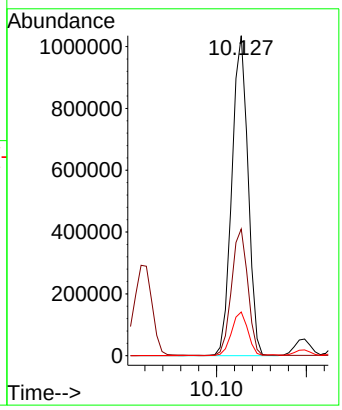




#55
Dibenzofuran
Concen: 42.456 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:168 Resp: 128975

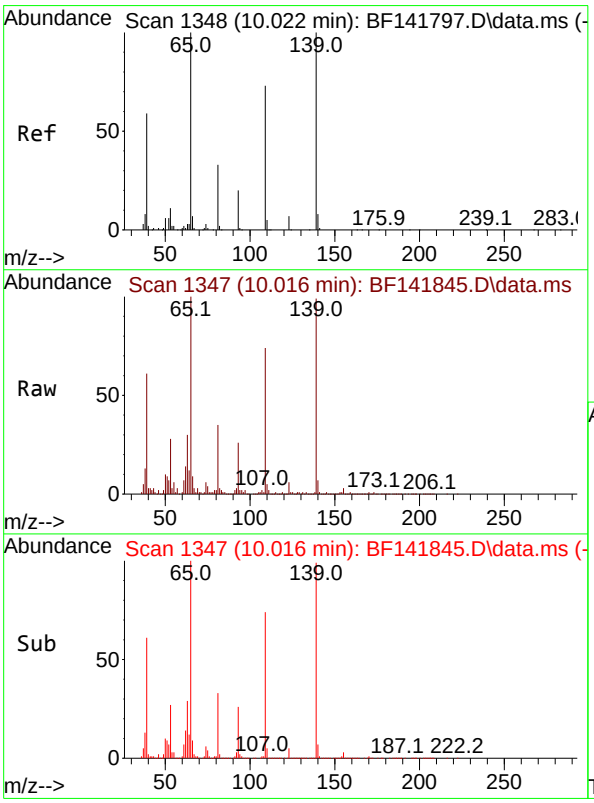
Ion	Ratio	Lower	Upper
168	100		
139	39.6	32.9	49.3
169	13.7	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

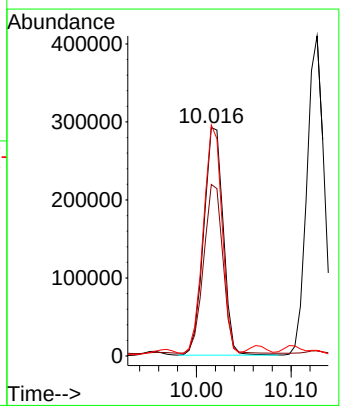
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

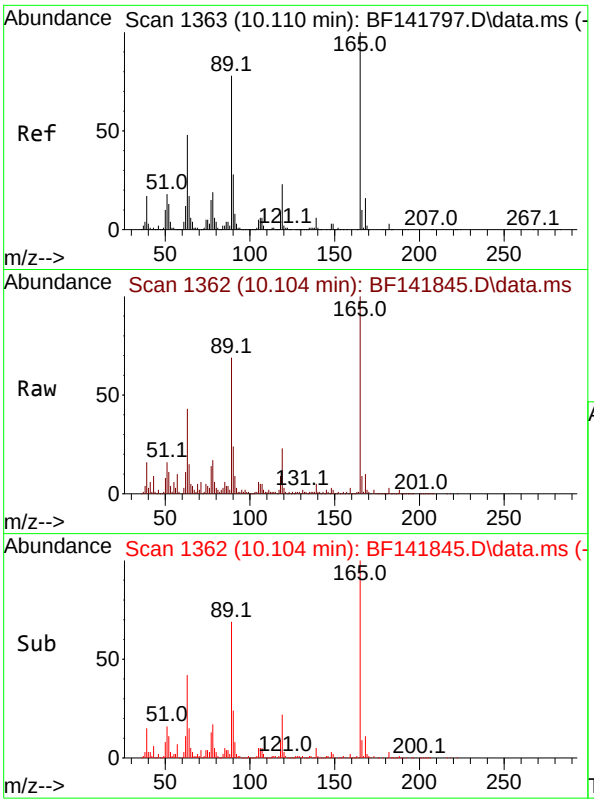


#56
4-Nitrophenol
Concen: 114.125 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:139 Resp: 414529

Ion	Ratio	Lower	Upper
139	100		
109	75.1	53.4	93.4
65	101.2	82.1	122.1

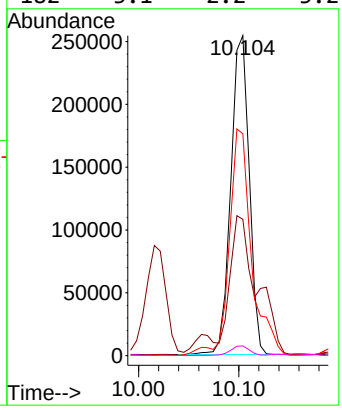




#57
2,4-Dinitrotoluene
Concen: 55.621 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:165 Resp: 32309

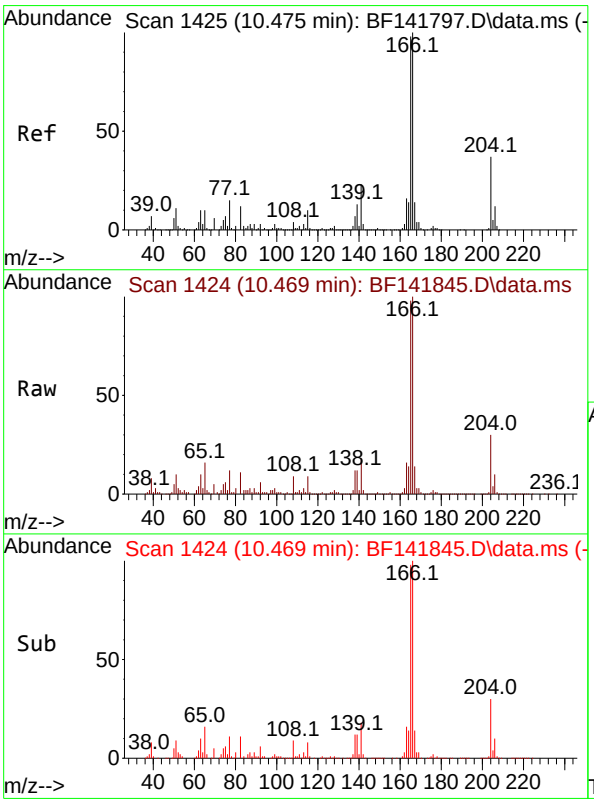
Ion	Ratio	Lower	Upper
165	100		
63	42.6	38.8	58.2
89	69.4	62.6	94.0
182	3.1	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

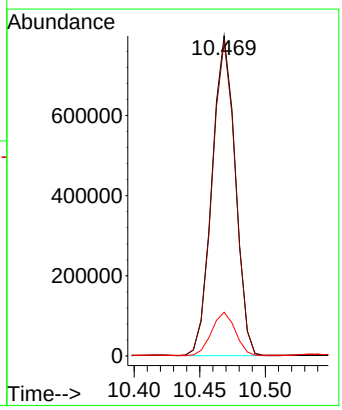
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

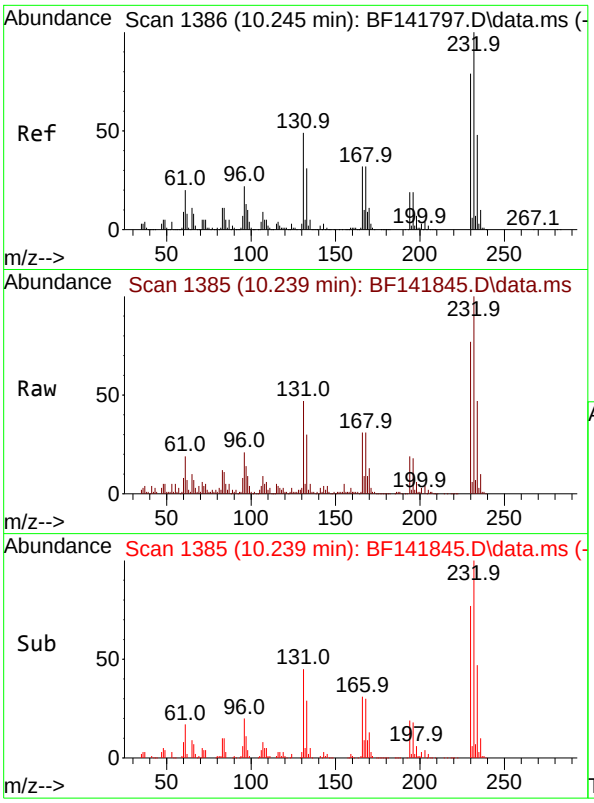


#58
Fluorene
Concen: 43.363 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:166 Resp: 986733

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.6	117.8
167	13.6	11.0	16.4

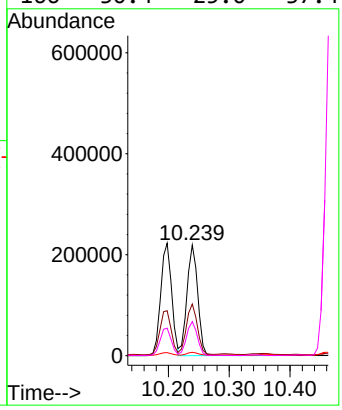




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.723 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:232 Resp: 26977

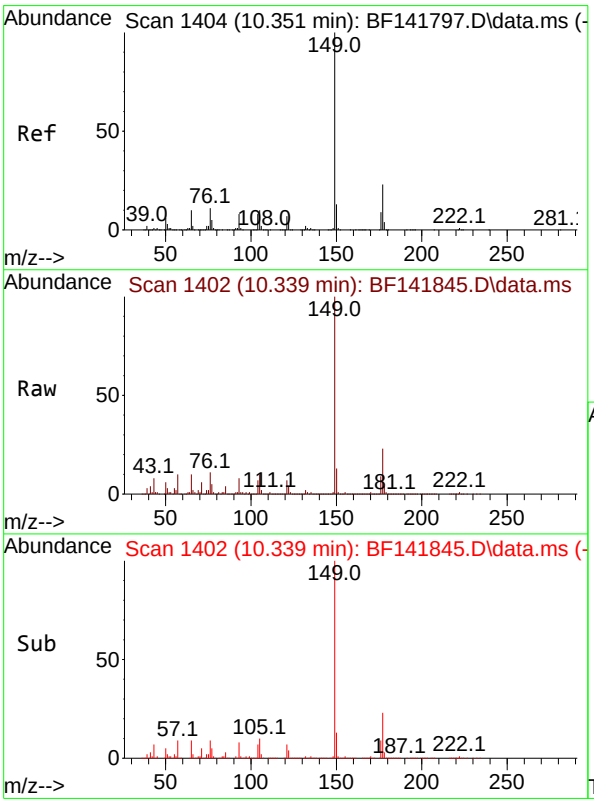
Ion	Ratio	Lower	Upper
232	100		
131	45.8	37.8	56.8
130	2.8	2.0	3.0
166	30.4	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

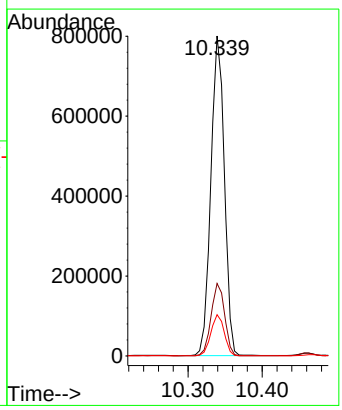
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

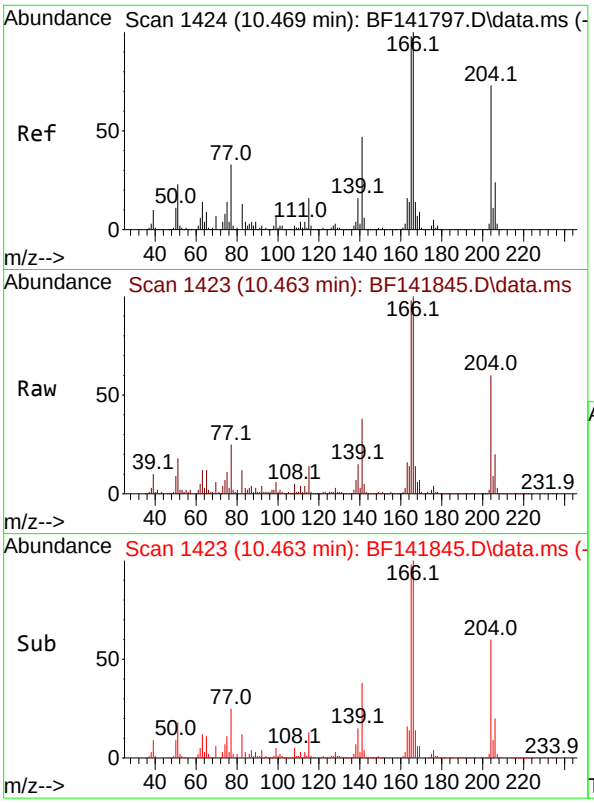


#60
Diethylphthalate
Concen: 40.990 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 1010574

Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.3	27.5
150	12.9	10.3	15.5





#61
4-Chlorophenyl-phenylether
Concen: 42.302 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

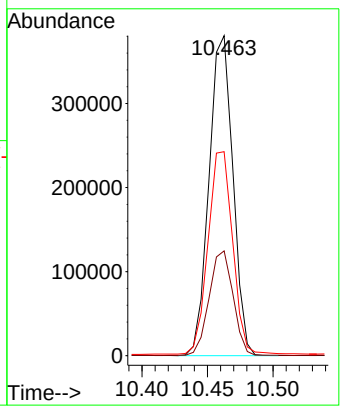
Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

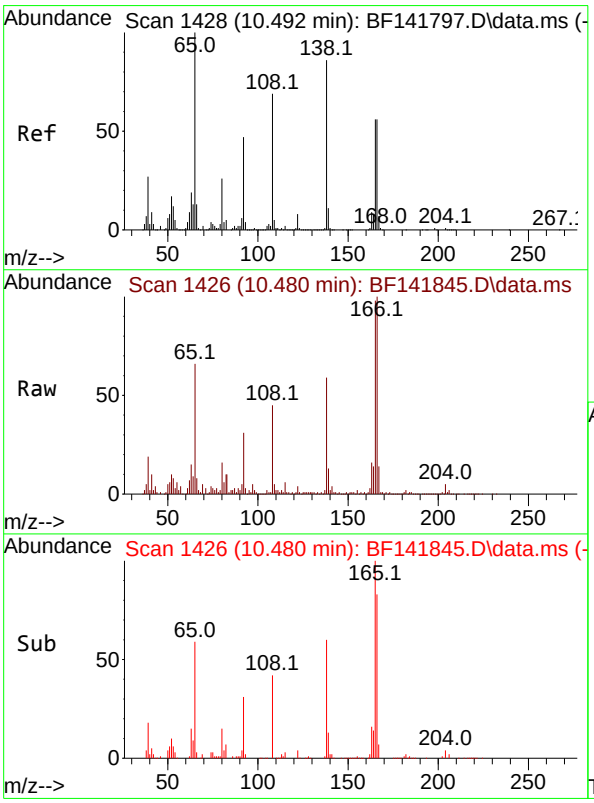
Tgt Ion:204 Resp: 48228

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.2	39.4
141	63.7	51.7	77.5

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

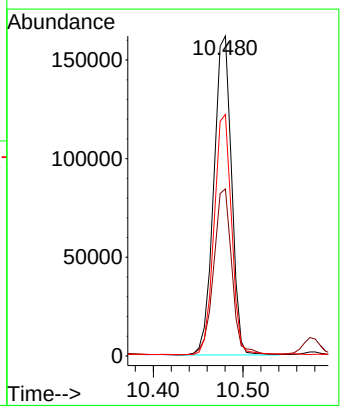


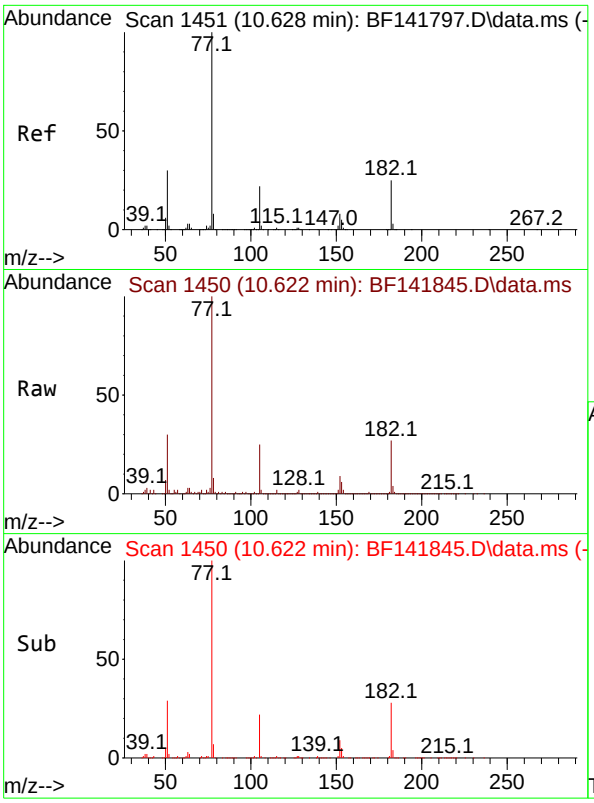


#62
4-Nitroaniline
Concen: 52.977 ng
RT: 10.480 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:138 Resp: 222496

Ion	Ratio	Lower	Upper
138	100		
92	52.2	34.9	74.9
108	75.5	59.6	99.6

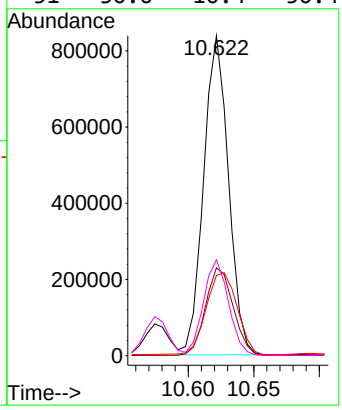




#63
Azobenzene
Concen: 42.529 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion: 77 Resp: 110399

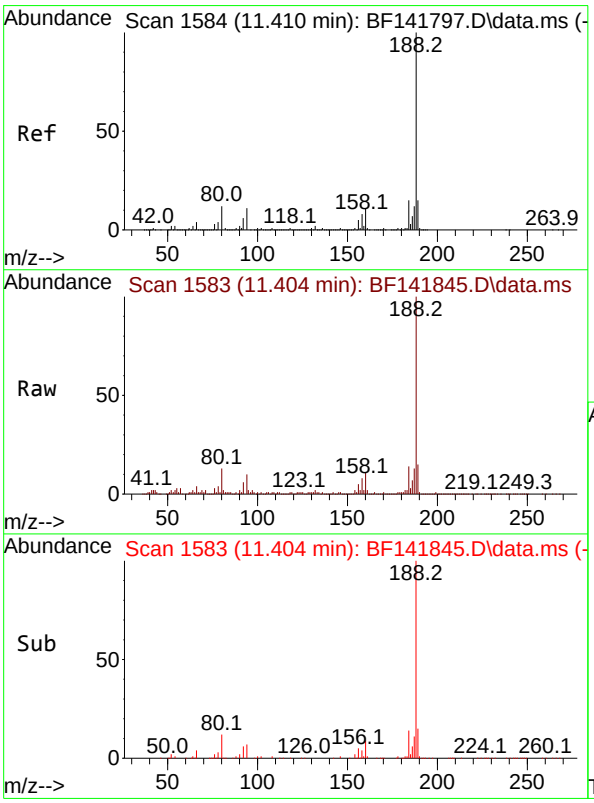
Ion	Ratio	Lower	Upper
77	100		
182	27.5	4.2	44.2
105	25.1	1.5	41.5
51	30.0	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

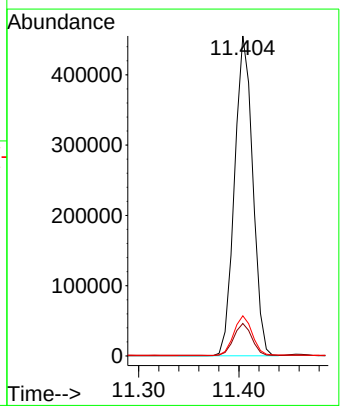
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

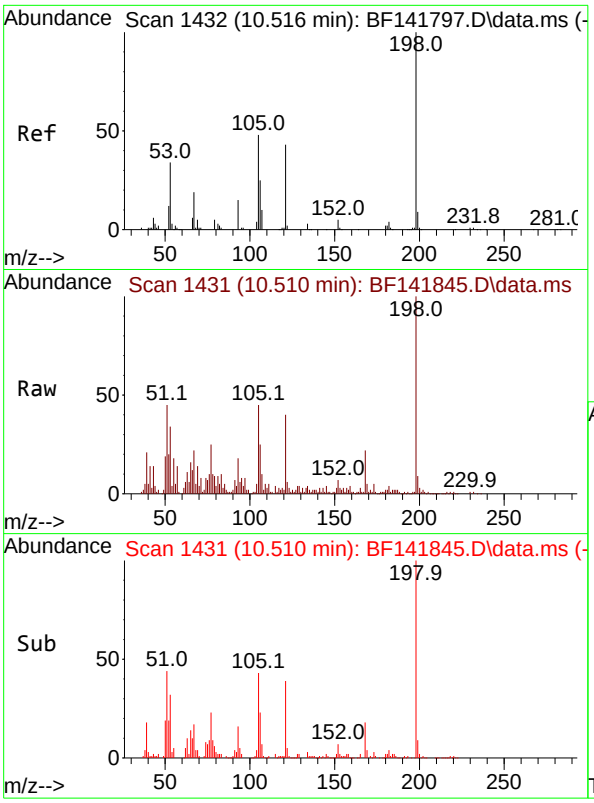


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:188 Resp: 575333

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.9	13.3
80	12.5	9.7	14.5

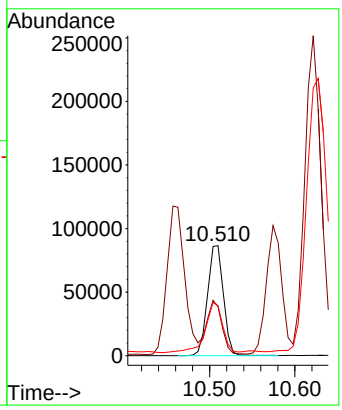




#65
4,6-Dinitro-2-methylphenol
Concen: 42.552 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:198 Resp: 11227

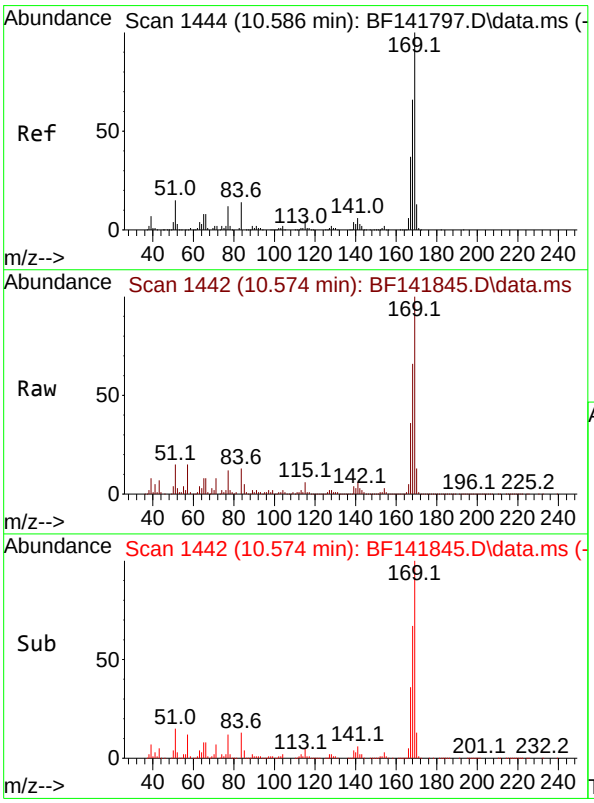
Ion	Ratio	Lower	Upper
198	100		
51	44.5	32.1	72.1
105	45.4	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

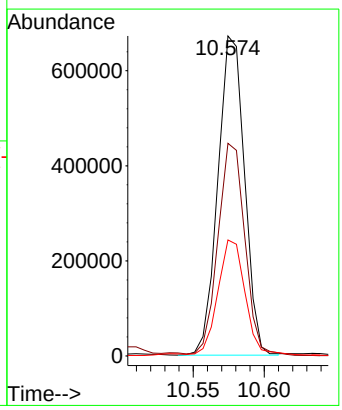
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

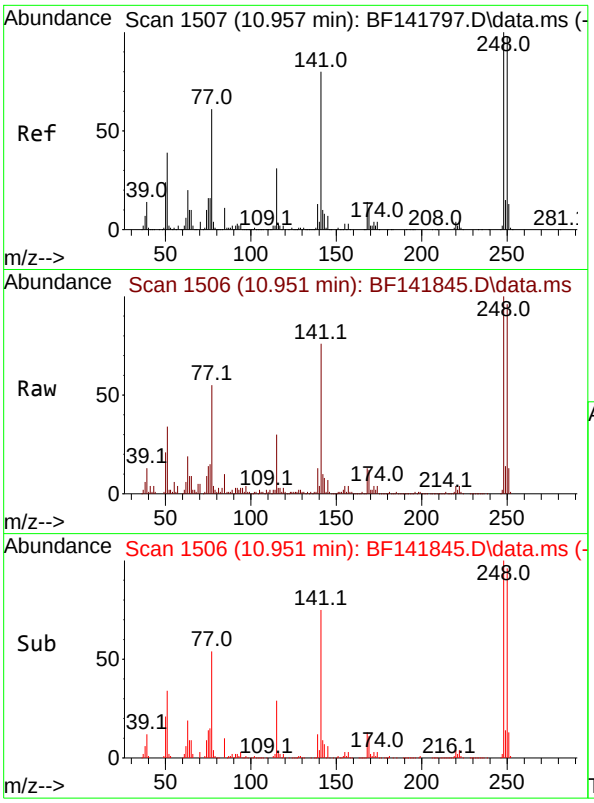


#66
n-Nitrosodiphenylamine
Concen: 46.279 ng
RT: 10.574 min Scan# 1442
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:169 Resp: 874306

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.6
167	36.3	29.3	43.9





#67
4-Bromophenyl-phenylether
Concen: 44.548 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

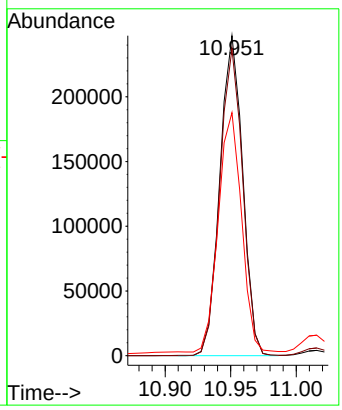
Tgt Ion:248 Resp: 29936

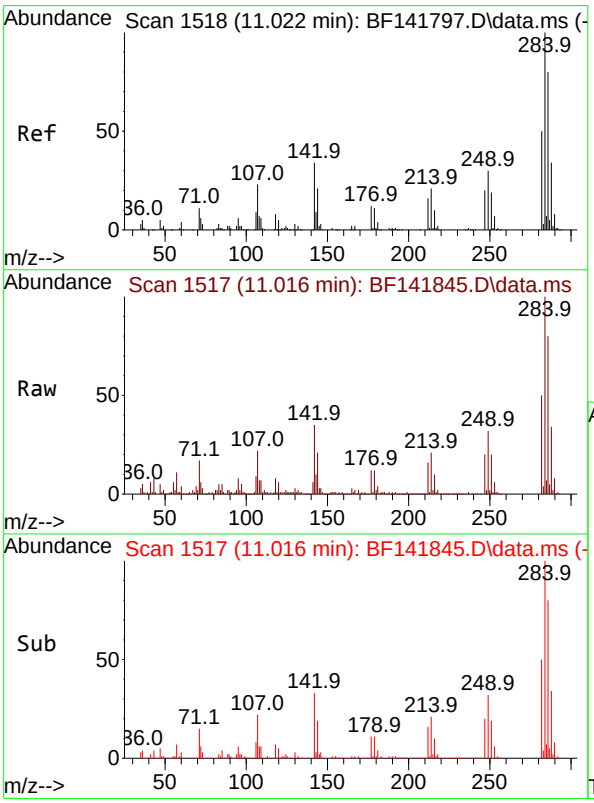
Ion	Ratio	Lower	Upper
248	100		
250	95.9	78.1	117.1
141	76.0	64.3	96.5

Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

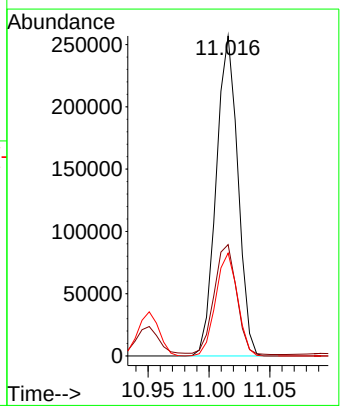


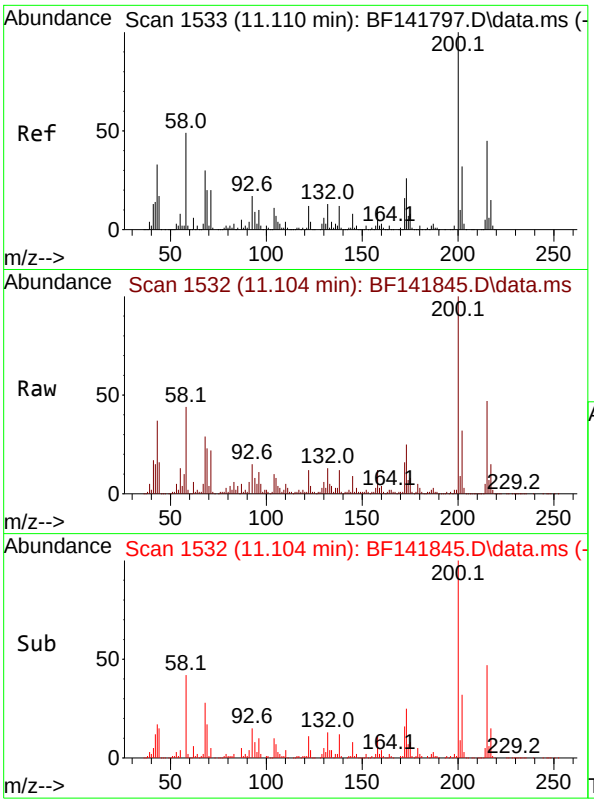


#68
Hexachlorobenzene
Concen: 44.897 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:284 Resp: 318600

Ion	Ratio	Lower	Upper
284	100		
142	34.8	28.2	42.2
249	32.1	25.5	38.3

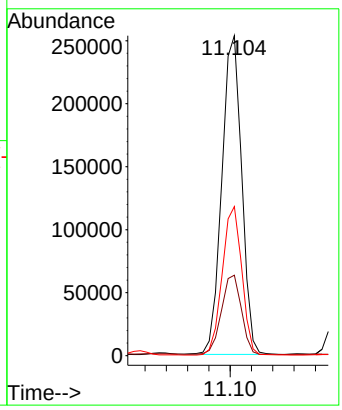




#69
Atrazine
Concen: 63.055 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:200 Resp: 32758

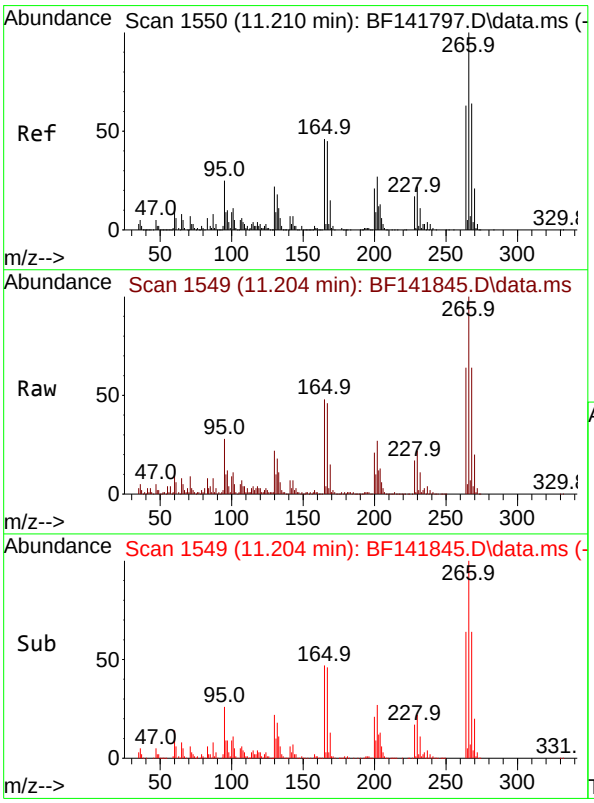
Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.6	45.6
215	46.6	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

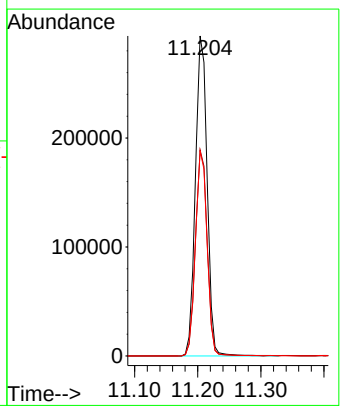
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

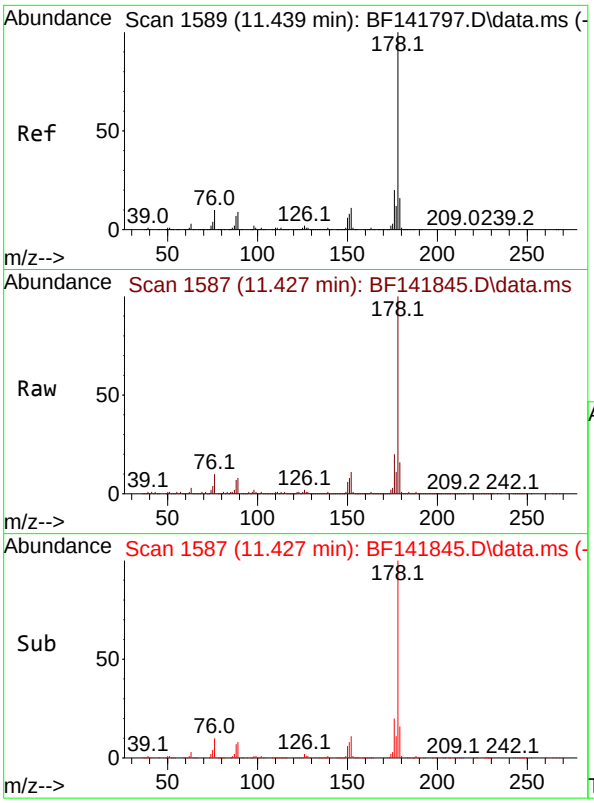


#70
Pentachlorophenol
Concen: 84.186 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:266 Resp: 378895

Ion	Ratio	Lower	Upper
266	100		
268	64.4	50.9	76.3
264	64.0	50.2	75.4

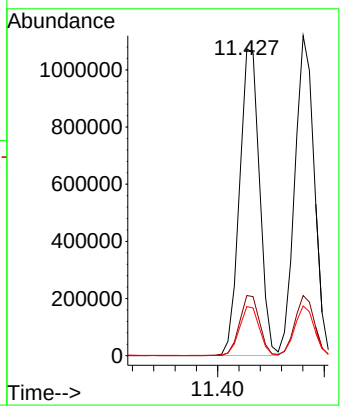




#71
Phenanthrene
Concen: 45.538 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:178 Resp: 140140

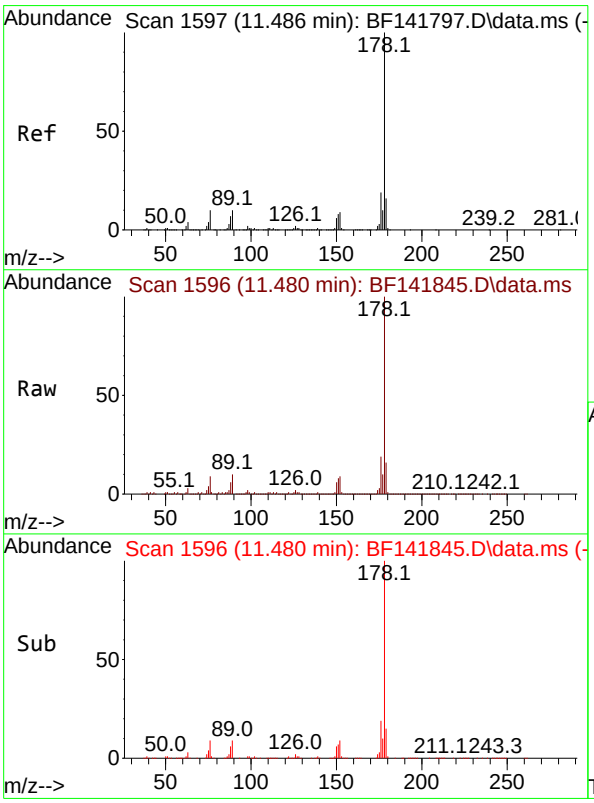
Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	16.0	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

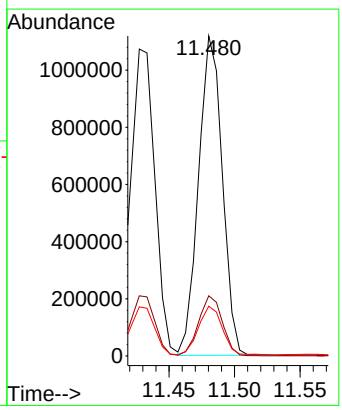
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

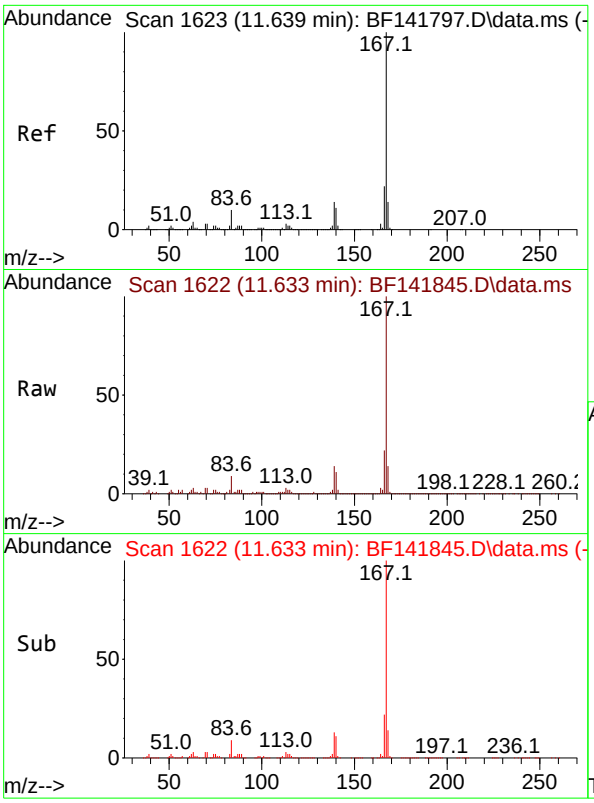


#72
Anthracene
Concen: 45.722 ng
RT: 11.480 min Scan# 1596
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:178 Resp: 1410204

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.6	12.8	19.2

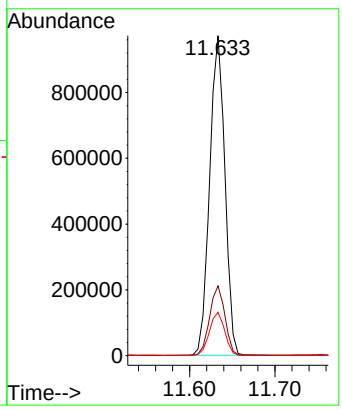




#73
Carbazole
Concen: 44.327 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:167 Resp: 120733

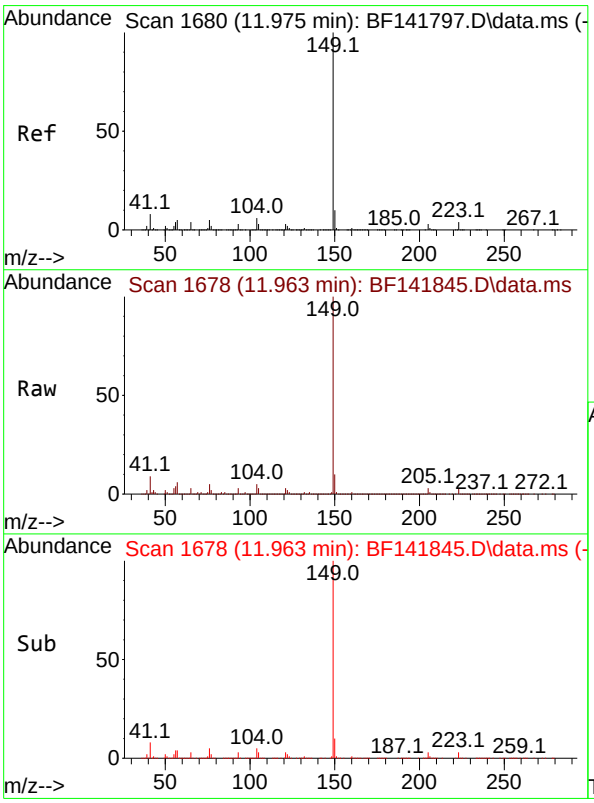
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	13.5	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

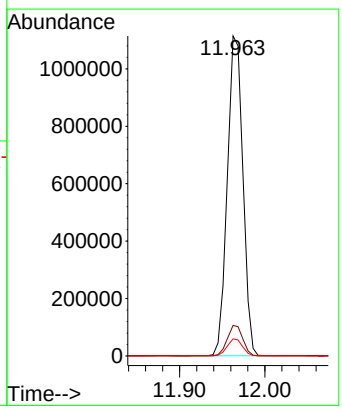
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

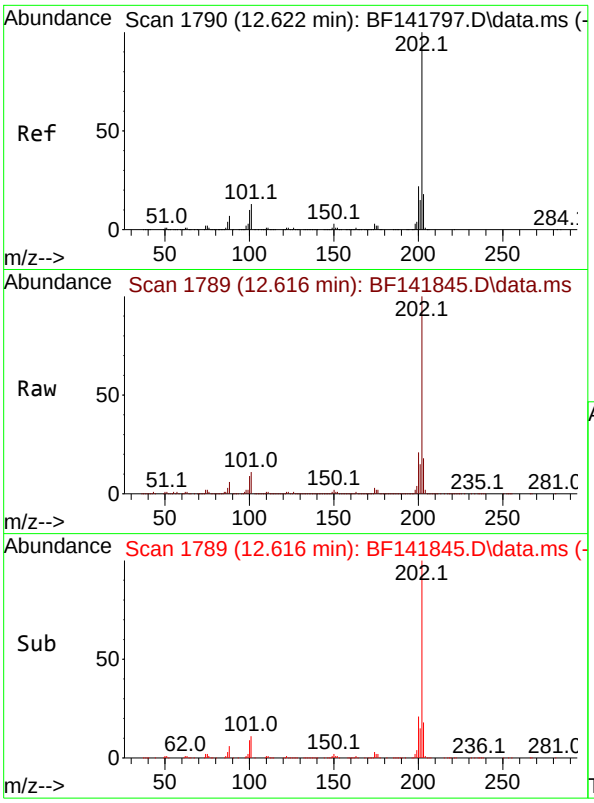


#74
Di-n-butylphthalate
Concen: 40.999 ng
RT: 11.963 min Scan# 1678
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 1415465

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.7	11.5
104	5.4	4.4	6.6

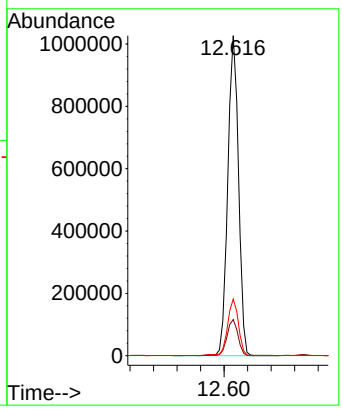




#75
Fluoranthene
Concen: 41.129 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:202 Resp: 129694

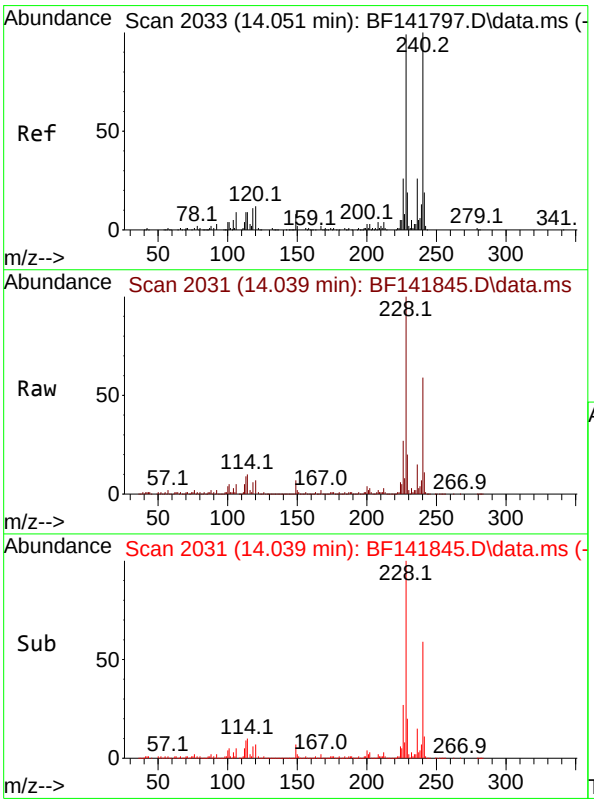
Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	32.8
203	17.7	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

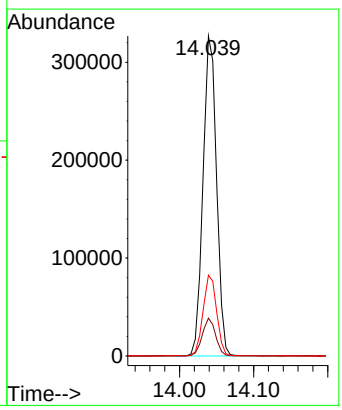
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

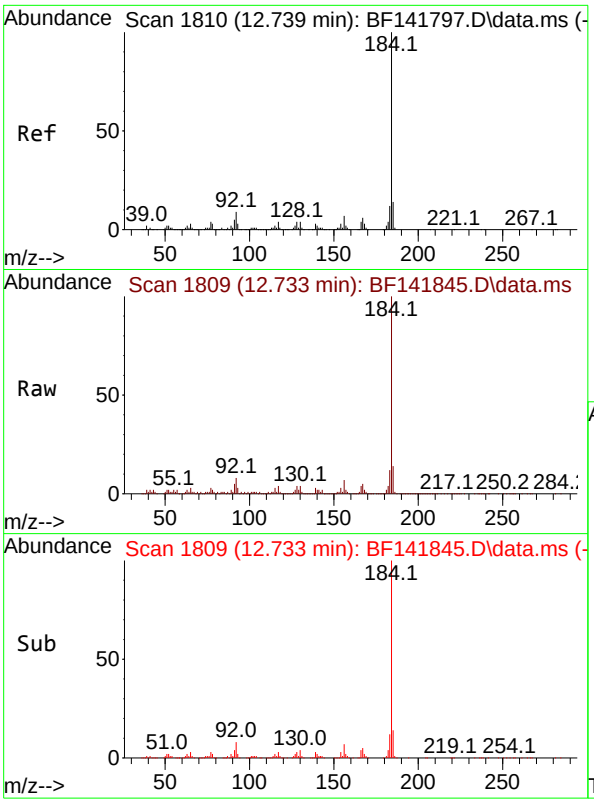


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:240 Resp: 414755

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.7	14.5
236	25.3	21.0	31.4

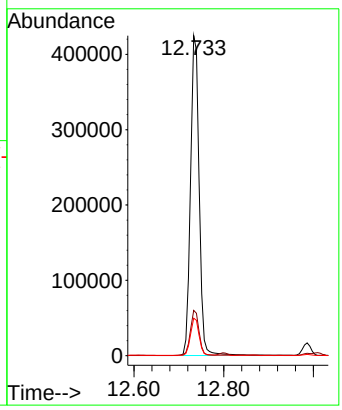




#77
Benzidine
Concen: 108.795 ng
RT: 12.733 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:184 Resp: 56794

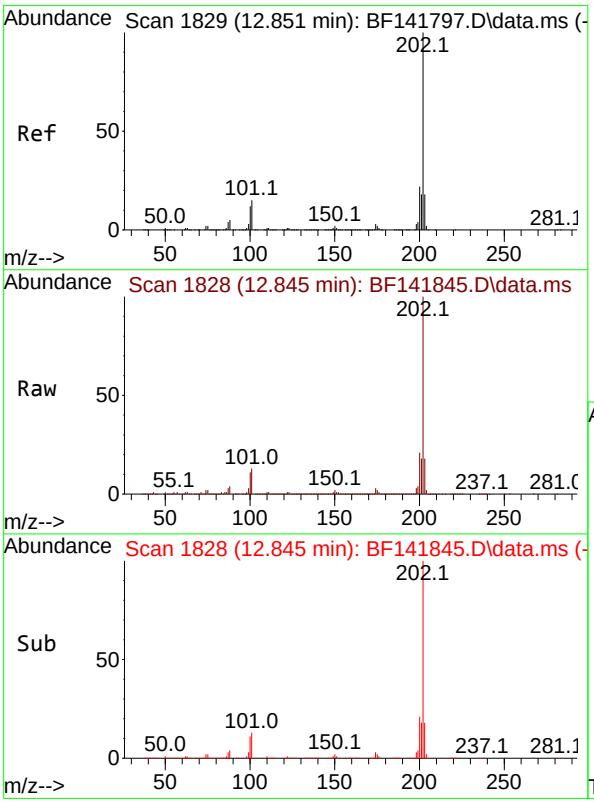
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.7	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

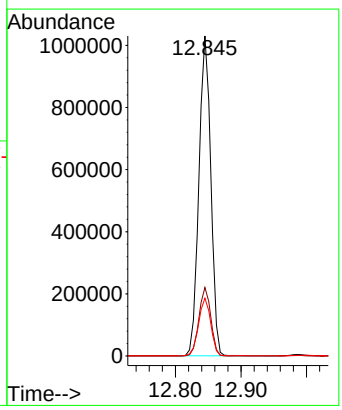
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

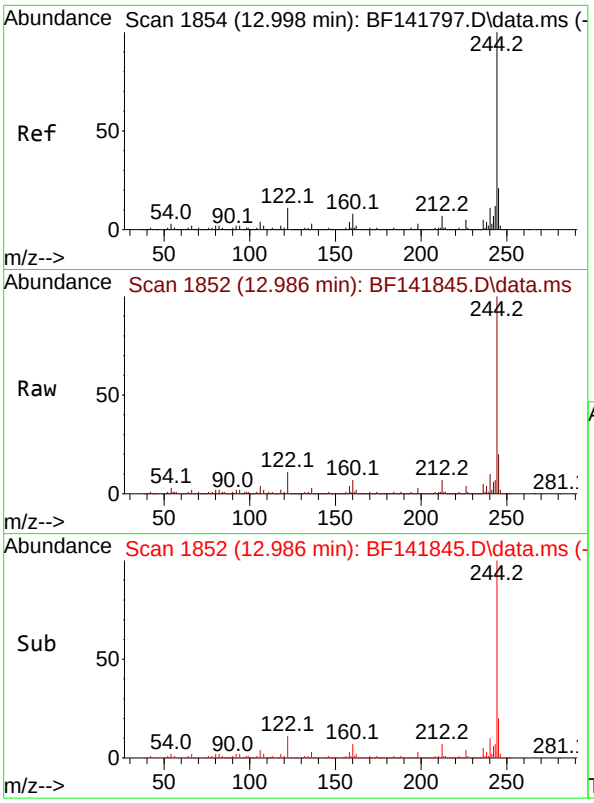


#78
Pyrene
Concen: 36.274 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:202 Resp: 1302790

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.4	26.0
203	18.1	14.6	22.0

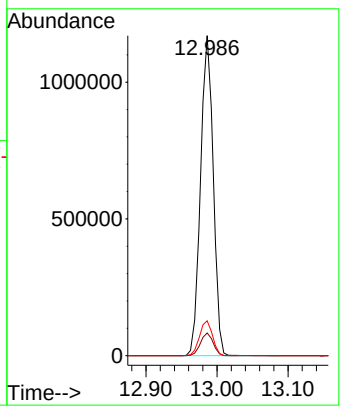




#79
Terphenyl-d14
Concen: 56.946 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:244 Resp: 145980

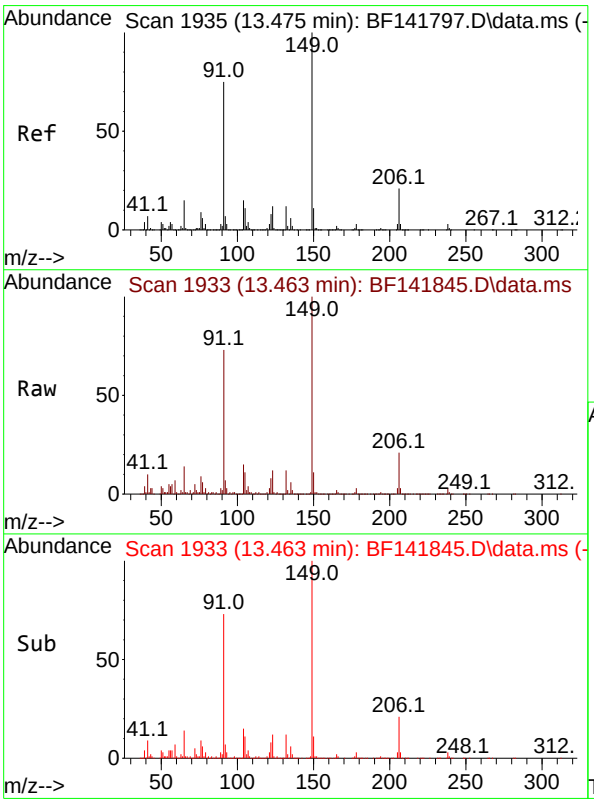
Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	10.9	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

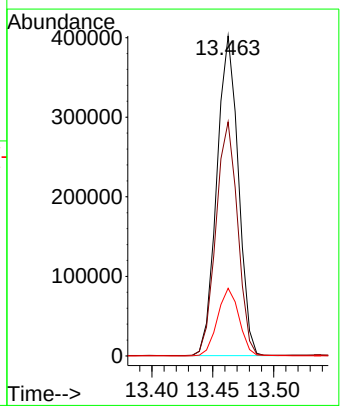
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

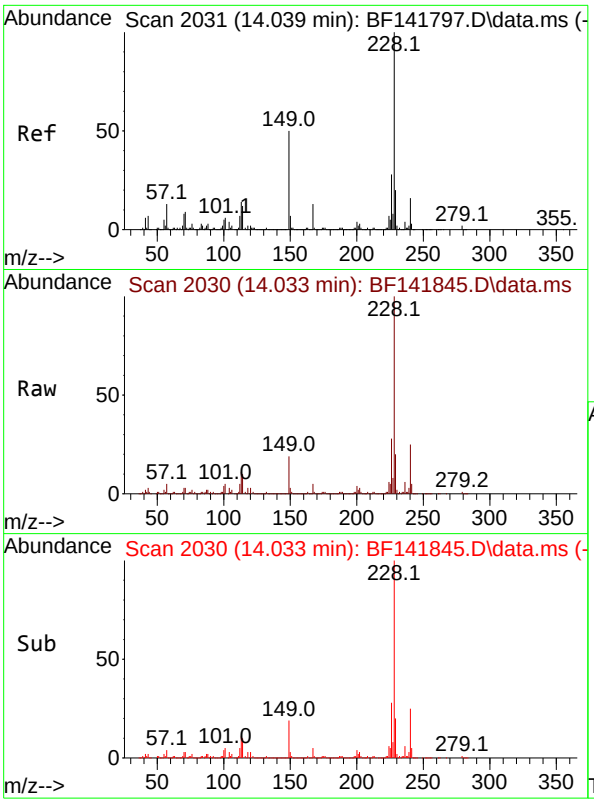


#80
Butylbenzylphthalate
Concen: 37.820 ng
RT: 13.463 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 493506

Ion	Ratio	Lower	Upper
149	100		
91	73.1	60.1	90.1
206	21.1	16.8	25.2

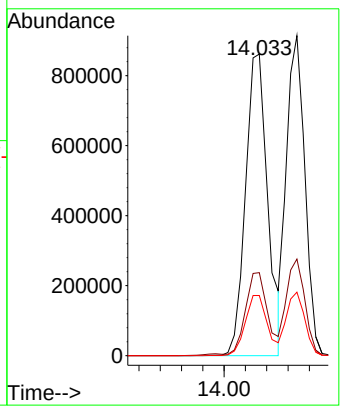




#81
Benzo(a)anthracene
Concen: 45.518 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:228 Resp: 124696

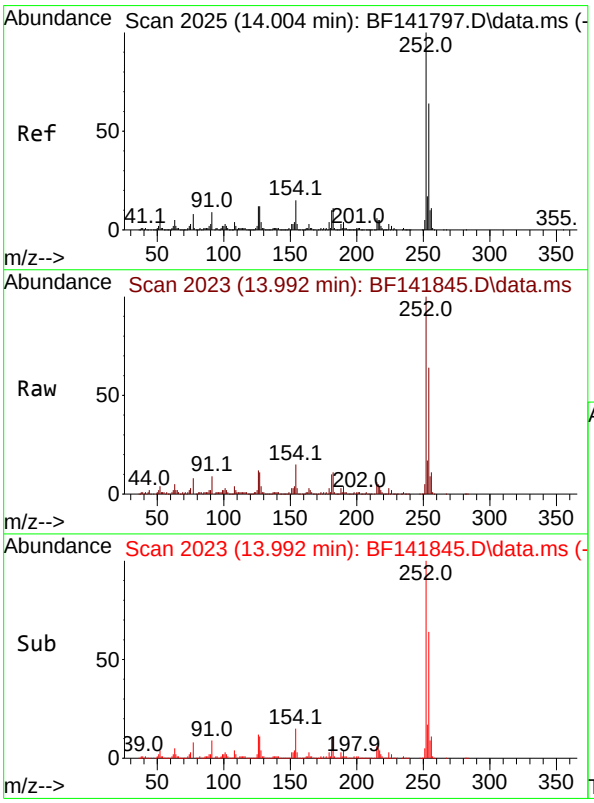
Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.1	33.1
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

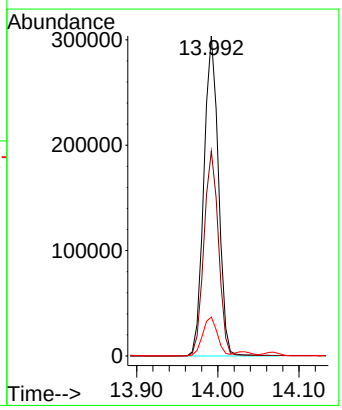
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

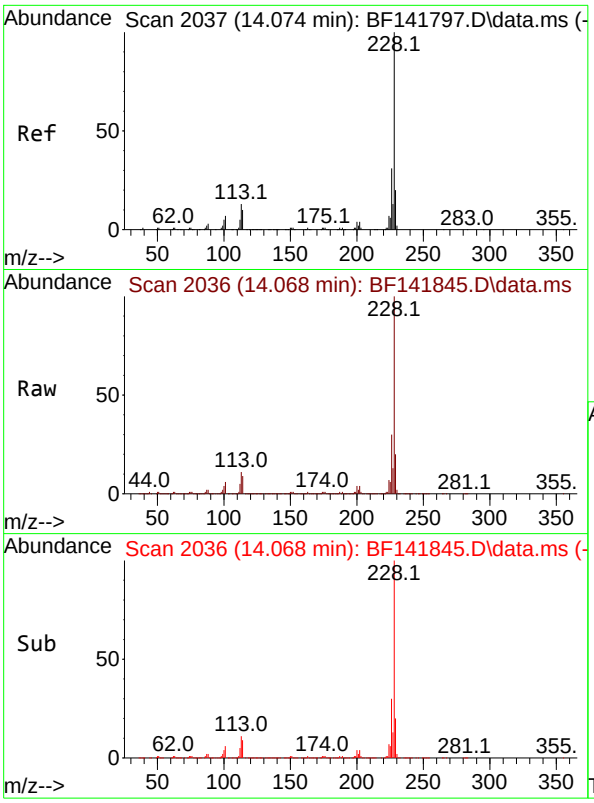


#82
3,3'-Dichlorobenzidine
Concen: 48.093 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 378006

Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.4	77.0
126	12.1	9.8	14.6

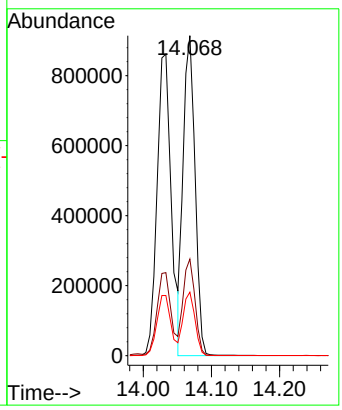




#83
Chrysene
Concen: 43.694 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:228 Resp: 110343

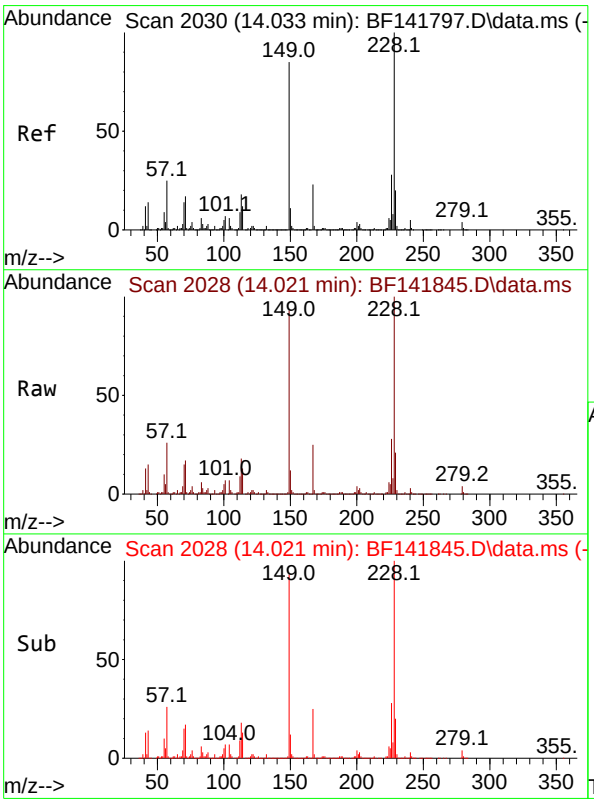
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.6	37.0
229	19.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

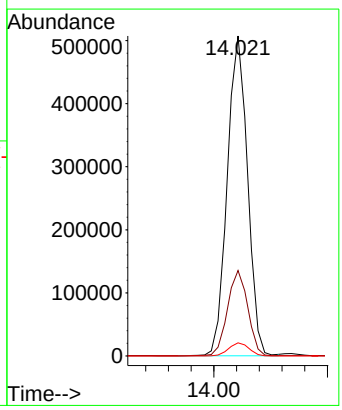
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

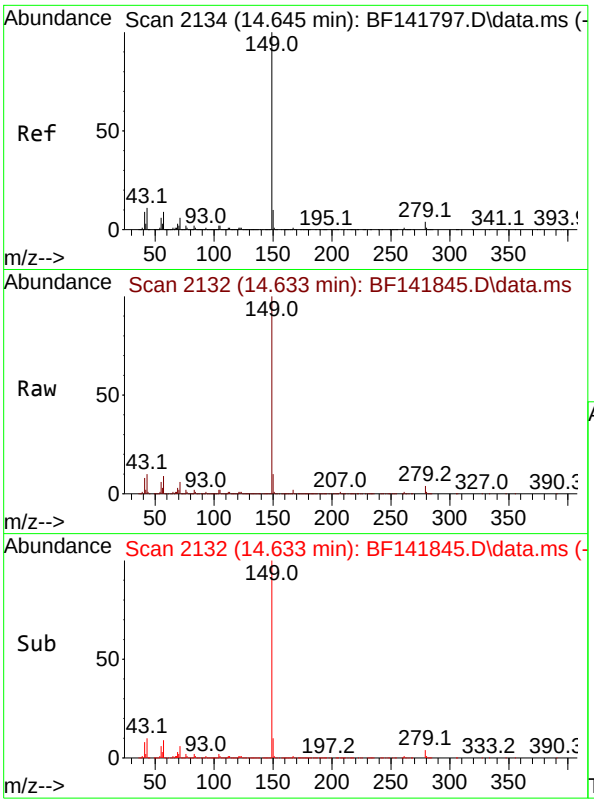


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.698 ng
RT: 14.021 min Scan# 2028
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 628755

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.2	31.8
279	4.1	3.3	4.9

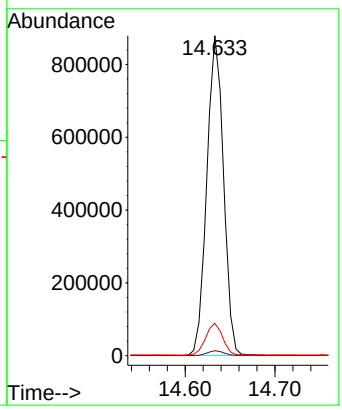




#85
Di-n-octyl phthalate
Concen: 46.687 ng
RT: 14.633 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:149 Resp: 113565

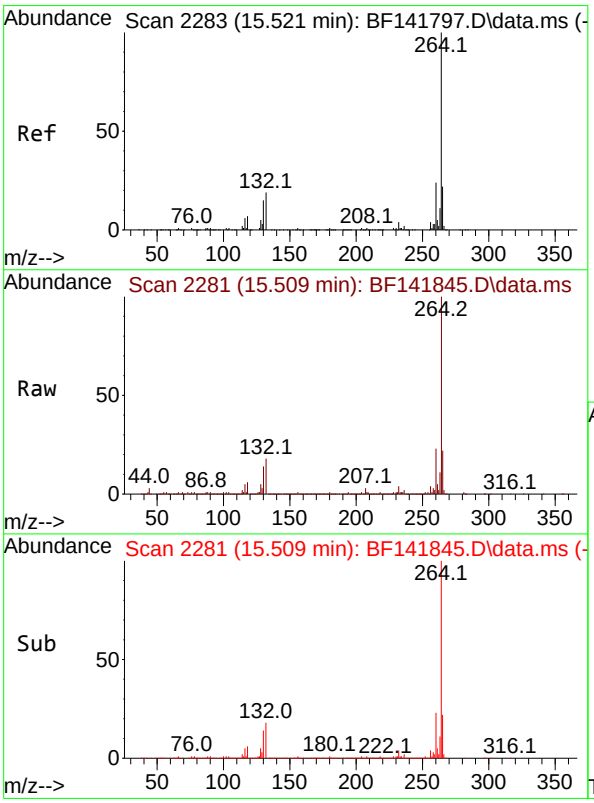
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.9	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

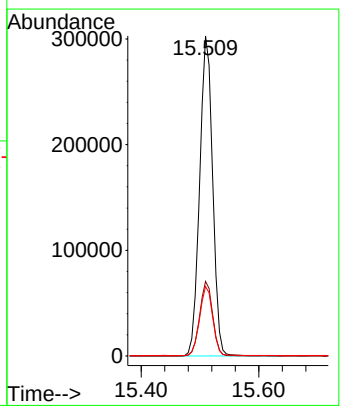
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

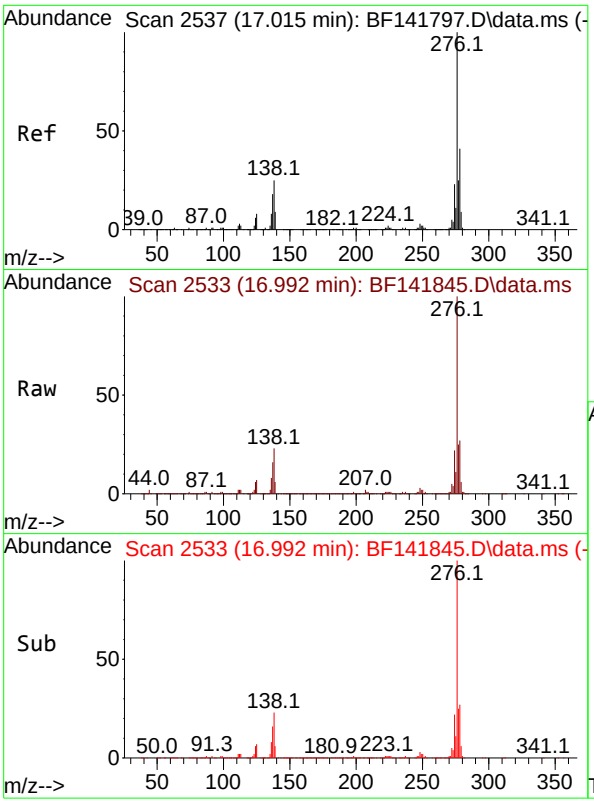


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.509 min Scan# 2281
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:264 Resp: 465047

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.9	28.3
265	21.7	17.4	26.0

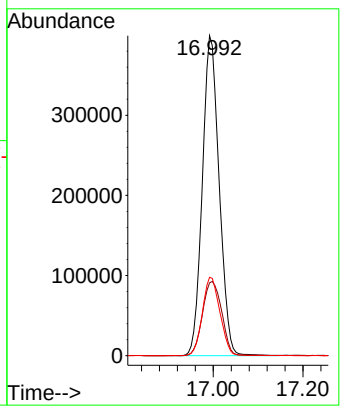




#87
Indeno(1,2,3-cd)pyrene
Concen: 35.115 ng
RT: 16.992 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:276 Resp: 103986

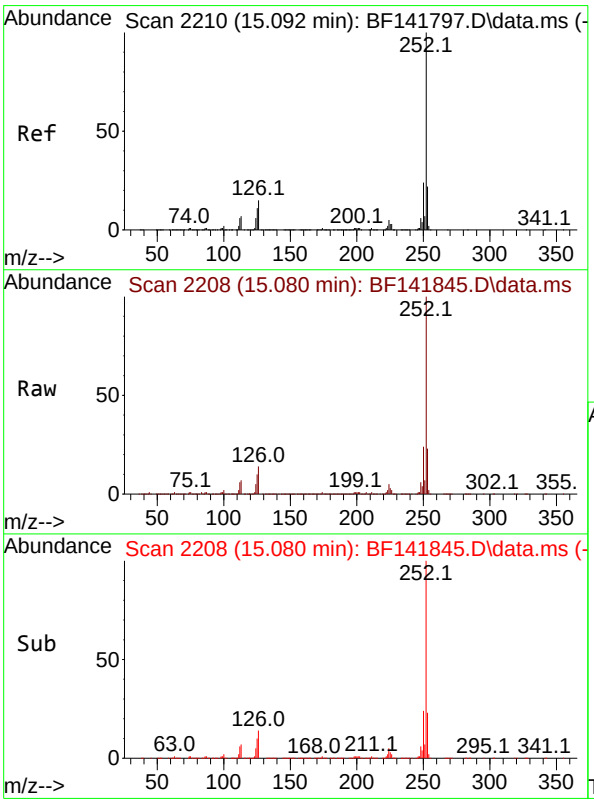
Ion	Ratio	Lower	Upper
276	100		
138	26.6	22.5	33.7
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

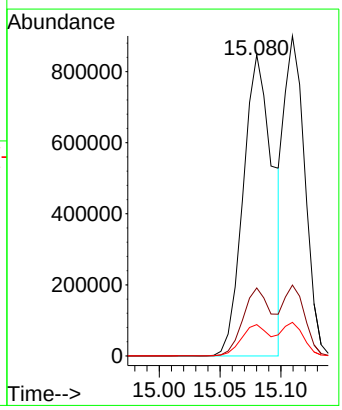
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

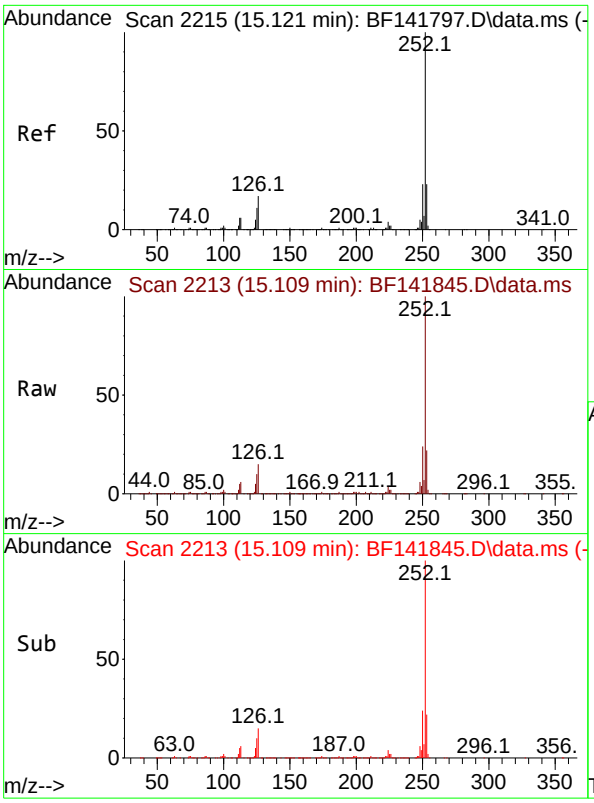


#88
Benzo(b)fluoranthene
Concen: 45.239 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 1433060

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	10.4	8.6	13.0

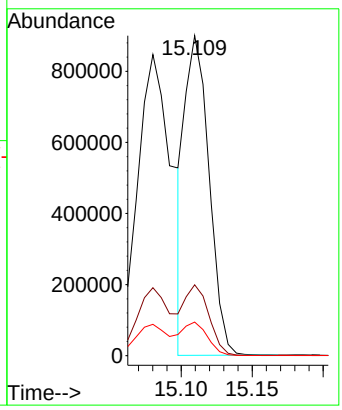




#89
Benzo(k)fluoranthene
Concen: 39.488 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 106320

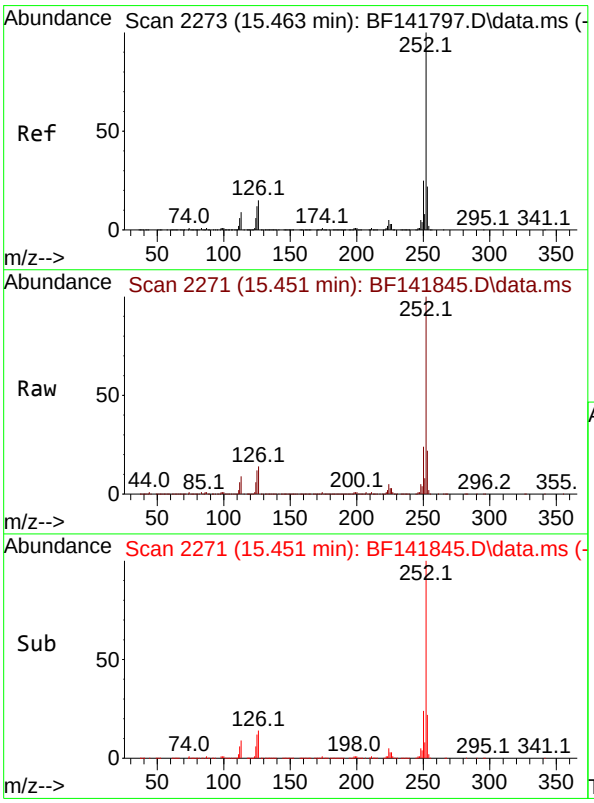
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.8
125	10.5	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

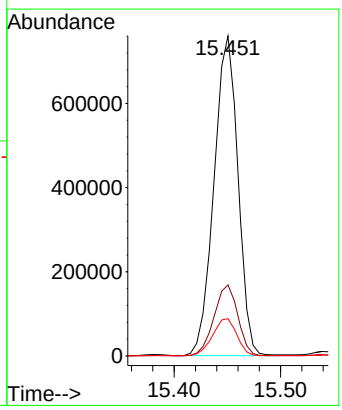
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025

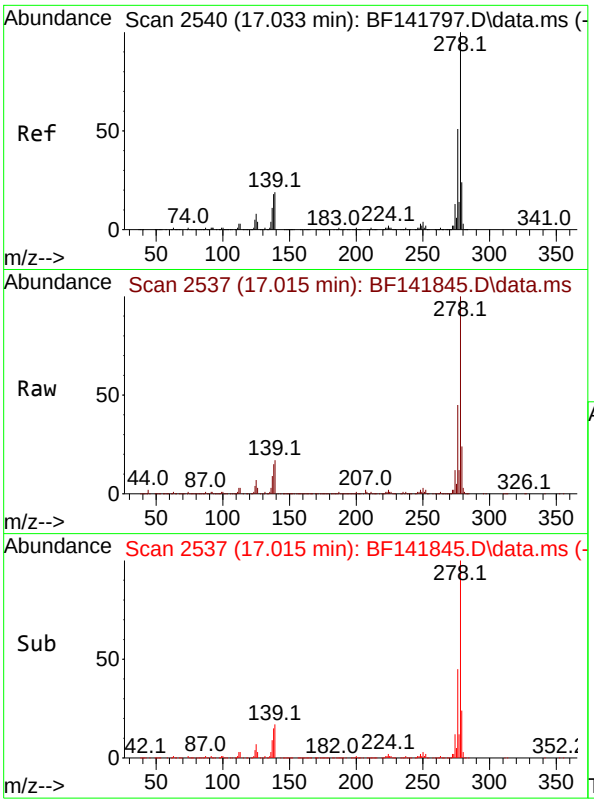


#90
Benzo(a)pyrene
Concen: 46.684 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:252 Resp: 1186012

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.6	9.4	14.2

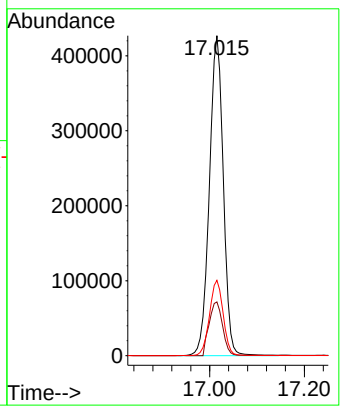




#91
Dibenzo(a,h)anthracene
Concen: 36.044 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:278 Resp: 87124

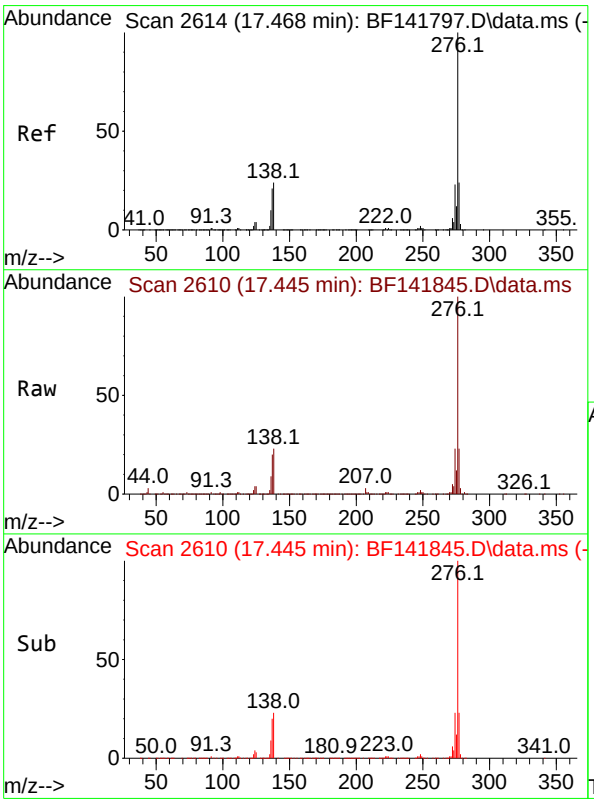
Ion	Ratio	Lower	Upper
278	100		
139	16.8	14.9	22.3
279	23.6	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
DN-B-42MSD

Manual Integrations
APPROVED

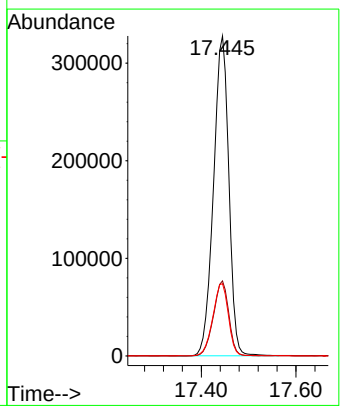
Reviewed By :Anahy Claudio 03/06/2025
Supervised By :Jagrut Upadhyay 03/06/2025



#92
Benzo(g,h,i)perylene
Concen: 29.696 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.024 min
Lab File: BF141845.D
Acq: 05 Mar 2025 15:51

Tgt Ion:276 Resp: 735371

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.4	29.0
138	22.6	19.3	28.9



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

Manual Integration Report

Sequence:	BF022725	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF141794.D	Aniline	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC005	BF141794.D	Phenol	yogesh	2/28/2025 7:30:31 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC010	BF141795.D	Phenol	yogesh	2/28/2025 7:30:34 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC020	BF141796.D	Phenol	yogesh	2/28/2025 7:30:37 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICCC040	BF141797.D	Caprolactam	yogesh	2/28/2025 7:30:40 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Aniline	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software
SSTDICC080	BF141800.D	Phenol	yogesh	2/28/2025 7:30:43 AM	mohammad	2/28/2025 7:32:51 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF030525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1487-01MS	BF141844.D	2,3,4,6-Tetrachlorophenol	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MS	BF141844.D	Benzoic acid	anahy	3/6/2025 9:40:25 AM	Jagrut	3/6/2025 5:47:30 PM	Peak Integrated by Software
Q1487-01MSD	BF141845.D	Benzoic acid	anahy	3/6/2025 9:41:20 AM	Jagrut	3/6/2025 5:47:33 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf030625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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 # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141792.D	27 Feb 2025 14:47	RC/JU	Ok
2	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17	RC/JU	Ok
3	SSTDICC005	BF141794.D	27 Feb 2025 15:46	RC/JU	Ok,M
4	SSTDICC010	BF141795.D	27 Feb 2025 16:16	RC/JU	Ok,M
5	SSTDICC020	BF141796.D	27 Feb 2025 16:46	RC/JU	Ok,M
6	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	RC/JU	Ok,M
7	SSTDICC050	BF141798.D	27 Feb 2025 17:46	RC/JU	Ok
8	SSTDICC060	BF141799.D	27 Feb 2025 18:15	RC/JU	Ok
9	SSTDICC080	BF141800.D	27 Feb 2025 18:45	RC/JU	Ok,M
10	SSTDICV040	BF141801.D	27 Feb 2025 19:45	RC/JU	Ok
11	PB166879TB	BF141802.D	27 Feb 2025 20:44	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 # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM				
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM				
SubDirectory	BF030525	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141834.D	05 Mar 2025 09:40	RC/JU	Ok
2	SSTDCCC040	BF141835.D	05 Mar 2025 10:09	RC/JU	Ok
3	PB166970BL	BF141836.D	05 Mar 2025 10:39	RC/JU	Ok
4	PB166970BS	BF141837.D	05 Mar 2025 11:09	RC/JU	Ok,M
5	Q1480-17DL	BF141838.D	05 Mar 2025 11:45	RC/JU	Ok
6	Q1480-01DL	BF141839.D	05 Mar 2025 12:15	RC/JU	Ok,M
7	Q1489-13	BF141840.D	05 Mar 2025 13:24	RC/JU	Ok
8	Q1488-11	BF141841.D	05 Mar 2025 13:53	RC/JU	Ok
9	Q1488-05	BF141842.D	05 Mar 2025 14:23	RC/JU	Ok
10	Q1488-09	BF141843.D	05 Mar 2025 14:52	RC/JU	Ok,M
11	Q1487-01MS	BF141844.D	05 Mar 2025 15:21	RC/JU	Ok,M
12	Q1487-01MSD	BF141845.D	05 Mar 2025 15:51	RC/JU	Ok,M
13	Q1487-01	BF141846.D	05 Mar 2025 16:21	RC/JU	Ok
14	Q1488-03	BF141847.D	05 Mar 2025 16:50	RC/JU	Ok
15	Q1485-01	BF141848.D	05 Mar 2025 17:20	RC/JU	Ok
16	Q1480-33	BF141849.D	05 Mar 2025 17:50	RC/JU	Ok
17	Q1489-09	BF141850.D	05 Mar 2025 18:20	RC/JU	Ok
18	Q1489-01	BF141851.D	05 Mar 2025 18:50	RC/JU	Ok,M
19	Q1484-01	BF141852.D	05 Mar 2025 19:20	RC/JU	Dilution
20	Q1486-01	BF141853.D	05 Mar 2025 19:50	RC/JU	Ok,M
21	Q1489-05	BF141854.D	05 Mar 2025 20:20	RC/JU	ReRun

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM				
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM				
SubDirectory	BF030525	HP Acquire Method	BNA_F		HP Processing Method	bf022725	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1481-01	BF141855.D	05 Mar 2025 20:50	RC/JU	Ok
23	Q1482-01	BF141856.D	05 Mar 2025 21:20	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141857.D	06 Mar 2025 08:34	RC/JU	Ok
2	SSTDCCC040	BF141858.D	06 Mar 2025 09:52	RC/JU	Ok
3	PB166984BL	BF141859.D	06 Mar 2025 10:22	RC/JU	Ok
4	PB166984BS	BF141860.D	06 Mar 2025 10:52	RC/JU	Ok,NR
5	PB166982BL	BF141861.D	06 Mar 2025 11:21	RC/JU	Ok
6	PB166982BS	BF141862.D	06 Mar 2025 11:51	RC/JU	Ok,NR
7	PB166982BSD	BF141863.D	06 Mar 2025 12:21	RC/JU	Ok,NR
8	Q1488-07	BF141864.D	06 Mar 2025 13:01	RC/JU	Ok
9	Q1488-01	BF141865.D	06 Mar 2025 13:31	RC/JU	Ok
10	Q1489-05	BF141866.D	06 Mar 2025 14:01	RC/JU	Ok,NR
11	Q1478-01	BF141867.D	06 Mar 2025 14:31	RC/JU	Ok
12	Q1478-07	BF141868.D	06 Mar 2025 15:01	RC/JU	Ok
13	Q1478-05	BF141869.D	06 Mar 2025 15:30	RC/JU	Ok
14	Q1488-14	BF141870.D	06 Mar 2025 16:00	RC/JU	Ok
15	Q1488-13	BF141871.D	06 Mar 2025 16:29	RC/JU	Ok
16	Q1478-03	BF141872.D	06 Mar 2025 16:59	RC/JU	Ok
17	Q1484-06	BF141873.D	06 Mar 2025 17:29	RC/JU	Ok
18	Q1492-01	BF141874.D	06 Mar 2025 17:59	RC/JU	Ok
19	Q1492-01MS	BF141875.D	06 Mar 2025 18:29	RC/JU	Ok,NR
20	Q1492-01MSD	BF141876.D	06 Mar 2025 18:58	RC/JU	Ok,NR
21	Q1494-05	BF141877.D	06 Mar 2025 19:28	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 # BF030625

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1494-07	BF141878.D	06 Mar 2025 19:58	RC/JU	Ok
23	Q1490-01	BF141879.D	06 Mar 2025 20:27	RC/JU	Ok,NR
24	Q1484-01DL	BF141880.D	06 Mar 2025 20:57	RC/JU	Not 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 # BF022725

Review By	yogesh	Review On	2/28/2025 7:30:58 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:51 AM		
SubDirectory	BF022725	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141792.D	27 Feb 2025 14:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141793.D	27 Feb 2025 15:17		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141794.D	27 Feb 2025 15:46	Compound #32,54,65,77 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF141795.D	27 Feb 2025 16:16	Compound #26,32,48,51,53,57,65 Kept on LR and Compound #54 Kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141796.D	27 Feb 2025 16:46	The Calibration is Fail for Com#77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141797.D	27 Feb 2025 17:16	The Calibration is Good For 8270E, 8270 DOD Except com#77 and 625.1 Method Except for Com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF141798.D	27 Feb 2025 17:46		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF141799.D	27 Feb 2025 18:15		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141800.D	27 Feb 2025 18:45	Compound #69 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBF022725	BF141801.D	27 Feb 2025 19:45	ICV Fail for Com#56,62,77 for DOD and ICV Fail for Com#77 for NON- DOD	RC/JU	Ok
11	PB166879TB	PB166879TB	BF141802.D	27 Feb 2025 20:44		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 # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141834.D	05 Mar 2025 09:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141835.D	05 Mar 2025 10:09		RC/JU	Ok
3	PB166970BL	PB166970BL	BF141836.D	05 Mar 2025 10:39		RC/JU	Ok
4	PB166970BS	PB166970BS	BF141837.D	05 Mar 2025 11:09		RC/JU	Ok,M
5	Q1480-17DL	TP-3DL	BF141838.D	05 Mar 2025 11:45		RC/JU	Ok
6	Q1480-01DL	TP-1DL	BF141839.D	05 Mar 2025 12:15		RC/JU	Ok,M
7	Q1489-13	TP-4	BF141840.D	05 Mar 2025 13:24		RC/JU	Ok
8	Q1488-11	ENV-104-SB02	BF141841.D	05 Mar 2025 13:53		RC/JU	Ok
9	Q1488-05	ENV-102-SB01	BF141842.D	05 Mar 2025 14:23		RC/JU	Ok
10	Q1488-09	ENV-104-SB01	BF141843.D	05 Mar 2025 14:52		RC/JU	Ok,M
11	Q1487-01MS	DN-B-42MS	BF141844.D	05 Mar 2025 15:21		RC/JU	Ok,M
12	Q1487-01MSD	DN-B-42MSD	BF141845.D	05 Mar 2025 15:51		RC/JU	Ok,M
13	Q1487-01	DN-B-42	BF141846.D	05 Mar 2025 16:21		RC/JU	Ok
14	Q1488-03	ENV-101-SB02	BF141847.D	05 Mar 2025 16:50		RC/JU	Ok
15	Q1485-01	DN-B-41	BF141848.D	05 Mar 2025 17:20		RC/JU	Ok
16	Q1480-33	TP-3-WATER-SAMPLE	BF141849.D	05 Mar 2025 17:50		RC/JU	Ok
17	Q1489-09	TP-3	BF141850.D	05 Mar 2025 18:20		RC/JU	Ok
18	Q1489-01	TP-1	BF141851.D	05 Mar 2025 18:50		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 # BF030525

Review By	anahy	Review On	3/6/2025 9:48:03 AM		
Supervise By	Jagrut	Supervise On	3/6/2025 5:48:04 PM		
SubDirectory	BF030525	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1484-01	TR-OTR-COMP-01	BF141852.D	05 Mar 2025 19:20	Need 2X Dilution	RC/JU	Dilution
20	Q1486-01	DN-B-40	BF141853.D	05 Mar 2025 19:50		RC/JU	Ok,M
21	Q1489-05	TP-2	BF141854.D	05 Mar 2025 20:20	Internal Standard Fail	RC/JU	ReRun
22	Q1481-01	WC-K1311	BF141855.D	05 Mar 2025 20:50		RC/JU	Ok
23	Q1482-01	OR-03-030425	BF141856.D	05 Mar 2025 21:20	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF030625

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141857.D	06 Mar 2025 08:34		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141858.D	06 Mar 2025 09:52		RC/JU	Ok
3	PB166984BL	PB166984BL	BF141859.D	06 Mar 2025 10:22		RC/JU	Ok
4	PB166984BS	PB166984BS	BF141860.D	06 Mar 2025 10:52		RC/JU	Ok,NR
5	PB166982BL	PB166982BL	BF141861.D	06 Mar 2025 11:21		RC/JU	Ok
6	PB166982BS	PB166982BS	BF141862.D	06 Mar 2025 11:51		RC/JU	Ok,NR
7	PB166982BSD	PB166982BSD	BF141863.D	06 Mar 2025 12:21		RC/JU	Ok,NR
8	Q1488-07	ENV-102-SB02	BF141864.D	06 Mar 2025 13:01		RC/JU	Ok
9	Q1488-01	ENV-101-SB01	BF141865.D	06 Mar 2025 13:31		RC/JU	Ok
10	Q1489-05	TP-2	BF141866.D	06 Mar 2025 14:01		RC/JU	Ok,NR
11	Q1478-01	IDW-AQ-MW-19B-COM	BF141867.D	06 Mar 2025 14:31		RC/JU	Ok
12	Q1478-07	IDW-AQ-IW-03-COMP-	BF141868.D	06 Mar 2025 15:01		RC/JU	Ok
13	Q1478-05	IDW-AQ-IW-02-COMP-	BF141869.D	06 Mar 2025 15:30		RC/JU	Ok
14	Q1488-14	ENV-104-GW01	BF141870.D	06 Mar 2025 16:00		RC/JU	Ok
15	Q1488-13	ENV-102-GW01	BF141871.D	06 Mar 2025 16:29		RC/JU	Ok
16	Q1478-03	IDW-AQ-IW-01-COMP-	BF141872.D	06 Mar 2025 16:59		RC/JU	Ok
17	Q1484-06	TR-OTR-COMP-01	BF141873.D	06 Mar 2025 17:29		RC/JU	Ok
18	Q1492-01	RHL1PXI	BF141874.D	06 Mar 2025 17:59		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 # BF030625

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	BF030625	HP Acquire Method	BNA_F	HP Processing Method	bf022725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1492-01MS	RHL1PXIMS	BF141875.D	06 Mar 2025 18:29		RC/JU	Ok,NR
20	Q1492-01MSD	RHL1PXIMSD	BF141876.D	06 Mar 2025 18:58		RC/JU	Ok,NR
21	Q1494-05	SOIL	BF141877.D	06 Mar 2025 19:28		RC/JU	Ok
22	Q1494-07	SOIL-COMP	BF141878.D	06 Mar 2025 19:58		RC/JU	Ok
23	Q1490-01	CLAY-SLUDGE-DRUM	BF141879.D	06 Mar 2025 20:27		RC/JU	Ok,NR
24	Q1484-01DL	TR-OTR-COMP-01DL	BF141880.D	06 Mar 2025 20:57	Out Of Tune Time	RC/JU	Not Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:35
Out Date: 03/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134889

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1480-01	TP-1	1	1.13	8.86	9.99	8.95	88.3	
Q1480-02	TP-1-E2	2	1.12	8.86	9.98	9.14	90.5	
Q1480-03	TP-1-E3	3	1.15	8.76	9.91	8.11	79.5	
Q1480-04	TP-1-E4	4	1.15	8.48	9.63	8.73	89.4	
Q1480-05	TP-1-E5	5	1.15	8.82	9.97	8.71	85.7	
Q1480-06	TP-1-E6	6	1.15	8.81	9.96	8.93	88.3	
Q1480-07	TP-1-E7	7	1.14	8.71	9.85	8.61	85.8	
Q1480-09	TP-2	8	1.12	8.74	9.86	8.56	85.1	
Q1480-10	TP-2-E2	9	1.14	8.82	9.96	8.53	83.8	
Q1480-11	TP-2-E3	10	1.15	8.50	9.65	8.62	87.9	
Q1480-12	TP-2-E4	11	1.14	8.76	9.9	8.8	87.4	
Q1480-13	TP-2-E5	12	1.15	8.82	9.97	8.92	88.1	
Q1480-14	TP-2-E6	13	1.16	8.82	9.98	8.95	88.3	
Q1480-15	TP-2-E7	14	1.12	8.73	9.85	8.88	88.9	
Q1480-17	TP-3	15	1.15	8.83	9.98	9.11	90.1	
Q1480-18	TP-3-E2	16	1.15	8.83	9.98	8.89	87.7	
Q1480-19	TP-3-E3	17	1.13	8.58	9.71	8.67	87.9	
Q1480-20	TP-3-E4	18	1.15	8.61	9.76	8.51	85.5	
Q1480-21	TP-3-E5	19	1.15	8.80	9.95	8.8	86.9	
Q1480-22	TP-3-E6	20	1.15	8.84	9.99	8.92	87.9	
Q1480-23	TP-3-E7	21	1.19	8.63	9.82	8.75	87.6	
Q1480-25	TP-4	22	1.14	8.83	9.97	9.07	89.8	
Q1480-26	TP-4-E2	23	1.17	8.80	9.97	9.32	92.6	
Q1480-27	TP-4-E3	24	1.13	8.76	9.89	8.95	89.3	
Q1480-28	TP-4-E4	25	1.16	8.81	9.97	9.13	90.5	
Q1480-29	TP-4-E5	26	1.12	8.67	9.79	8.97	90.5	
Q1480-30	TP-4-E6	27	1.15	8.83	9.98	9.34	92.8	
Q1480-31	TP-4-E7	28	1.11	8.62	9.73	8.88	90.1	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:35
Out Date: 03/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134889

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1481-01	WC-K1311	29	1.15	8.70	9.85	9.00	90.2	
Q1482-01	OR-03-030425	30	1.15	8.48	9.63	8.85	90.8	
Q1482-02	OR-03-030425-E2	31	1.15	8.83	9.98	9.17	90.8	
Q1484-01	TR-OTR-COMP-01	35	1.15	8.83	9.98	9.14	90.5	
Q1484-02	TR-OTR-VOC-01	36	1.15	8.81	9.96	9.22	91.6	
Q1484-03	TR-OTR-01	37	1.12	8.63	9.75	8.83	89.3	
Q1484-04	TR-OTR-02	38	1.15	8.78	9.93	8.99	89.3	
Q1484-05	TR-OTR-03	39	1.14	8.63	9.77	8.6	86.4	
Q1485-01	DN-B-41	32	1.16	8.53	9.69	8.25	83.1	
Q1486-01	DN-B-40	33	1.16	8.40	9.56	9.02	93.6	
Q1487-01	DN-B-42	34	1.13	8.84	9.97	8.92	88.1	
Q1488-01	ENV-101-SB01	40	1.13	8.45	9.58	8.61	88.5	
Q1488-03	ENV-101-SB02	41	1.15	8.82	9.97	9.14	90.6	
Q1488-05	ENV-102-SB01	42	1.16	8.82	9.98	8.72	85.7	
Q1488-07	ENV-102-SB02	43	1.13	8.55	9.68	7.98	80.1	
Q1488-09	ENV-104-SB01	44	1.12	8.50	9.62	8.14	82.6	
Q1488-11	ENV-104-SB02	45	1.14	8.85	9.99	8.32	81.1	
Q1489-01	TP-1	46	1.13	8.86	9.99	8.18	79.6	
Q1489-02	TP-1-E2	47	1.15	8.83	9.98	8.17	79.5	
Q1489-03	TP-1-E3	48	1.13	8.70	9.83	7.68	75.3	
Q1489-05	TP-2	49	1.11	8.76	9.87	6.93	66.4	
Q1489-06	TP-2-E2	50	1.16	8.63	9.79	7.38	72.1	
Q1489-07	TP-2-E3	51	1.15	8.83	9.98	7.53	72.3	
Q1489-09	TP-3	52	1.19	8.58	9.77	7.71	76.0	
Q1489-10	TP-3-E2	53	1.15	8.84	9.99	8.7	85.4	
Q1489-11	TP-3-E3	54	1.15	8.38	9.53	7.9	80.5	
Q1489-13	TP-4	55	1.16	8.81	9.97	8.57	84.1	
Q1489-14	TP-4-E2	56	1.16	8.82	9.98	8.46	82.8	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 3/5/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:40
In Date: 03/04/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:35
Out Date: 03/05/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134889

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1489-15	TP-4-E3	57	1.16	8.50	9.66	8.02	80.7	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UB134889

WorkList Name : %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1480-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-02	TP-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-03	TP-1-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-04	TP-1-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-05	TP-1-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-06	TP-1-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-07	TP-1-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-09	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-10	TP-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-11	TP-2-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-12	TP-2-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-13	TP-2-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-14	TP-2-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-15	TP-2-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-17	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-18	TP-3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-19	TP-3-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-20	TP-3-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-21	TP-3-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-22	TP-3-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-23	TP-3-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO

Date/Time 03/04/25 16:15

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: CP SM

Date/Time 03/04/25 18:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: JD (WC)

WORKLIST(Hardcopy Internal Chain)

VB134889

WorkList Name : %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1480-25	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-26	TP-4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-27	TP-4-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-28	TP-4-E4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-29	TP-4-E5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-30	TP-4-E6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1480-31	TP-4-E7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1481-01	WC-K1311	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	03/03/2025	Chemtech -SO
Q1482-01	OR-03-030425	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1482-02	OR-03-030425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	03/04/2025	Chemtech -SO
Q1484-01	TR-OTR-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG05	H31	03/04/2025	Chemtech -SO
Q1484-02	TR-OTR-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1484-03	TR-OTR-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1484-04	TR-OTR-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1484-05	TR-OTR-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1485-01	DN-B-41	Solid	Percent Solids	Cool 4 deg C	PSEG03	H31	03/04/2025	Chemtech -SO
Q1486-01	DN-B-40	Solid	Percent Solids	Cool 4 deg C	JPCL01	I11	03/04/2025	Chemtech -SO
Q1487-01	DN-B-42	Solid	Percent Solids	Cool 4 deg C	JPCL01	I11	03/04/2025	Chemtech -SO
Q1488-01	ENV-101-SB01	Solid	Percent Solids	Cool 4 deg C	JPCL01	I11	03/04/2025	Chemtech -SO
Q1488-03	ENV-101-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1488-05	ENV-102-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO

Date/Time 03/04/25 16:15

Raw Sample Received by: SB (WCJ)

Raw Sample Relinquished by: CP SM

Date/Time 03/04/25 18:00

Raw Sample Received by: CP SM

Raw Sample Relinquished by: SB (WCJ)

WORKLIST(Hardcopy Internal Chain)

1B134889

WorkList Name : %1-030425 **WorkList ID :** 187994 **Department :** Wet-Chemistry **Date :** 03-04-2025 07:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1488-07	ENV-102-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1488-09	ENV-104-SB01	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1488-11	ENV-104-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	H31	03/04/2025	Chemtech -SO
Q1489-01	TP-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-02	TP-1-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-03	TP-1-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-05	TP-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-06	TP-2-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-07	TP-2-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-09	TP-3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-10	TP-3-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-11	TP-3-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-13	TP-4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-14	TP-4-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO
Q1489-15	TP-4-E3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I22	03/04/2025	Chemtech -SO

Date/Time 03/04/25 16:15

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 03/04/25 1840

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166984

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/05/2025
Matrix :	Solid			**Extraction Start Time :**	09:40
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	03/05/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	12:45
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	RUPESH

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
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/5/25	RS (Ext lab)	RC/SVOC
12:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166984

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166984BL	SBLK984	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U2-1
PB166984BS	SLCS984	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1481-01	WC-K1311	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		3
Q1482-01	OR-03-030425	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1484-01	TR-OTR-COMP-01	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		5
Q1485-01	DN-B-41	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	B		6
Q1486-01	DN-B-40	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	B		U3-1
Q1487-01	DN-B-42	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	C		2
Q1487-01MS	DN-B-42MS	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	C		3
Q1487-01MSD	DN-B-42MSD	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	C		4
Q1488-01	ENV-101-SB01	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
Q1488-03	ENV-101-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		6
Q1488-05	ENV-102-SB01	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		U6-1
Q1488-07	ENV-102-SB02	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q1488-09	ENV-104-SB01	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		3
Q1488-11	ENV-104-SB02	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		4
Q1489-01	TP-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		5
Q1489-05	TP-2	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		6
Q1489-09	TP-3	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U7-1
Q1489-13	TP-4	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		2

RS 3/5

* **Extracts relinquished on the same date as received.**

166984
9.40

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1485 **WorkList ID :** 188027 **Department :** Extraction **Date :** 03-05-2025 08:31:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1481-01	WC-K1311	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1482-01	OR-03-030425	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	H31	03/04/2025	8270E
Q1484-01	TR-OTR-COMP-01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	H31	03/04/2025	8270E
Q1485-01	DN-B-41	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1486-01	DN-B-40	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1487-01	DN-B-42	Solid	SVOC-TCL BNA -20	Cool 4 deg C	JPCL01	I11	03/04/2025	8270E
Q1488-01	ENV-101-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-03	ENV-101-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-05	ENV-102-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-07	ENV-102-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-09	ENV-104-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1488-11	ENV-104-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	H31	03/04/2025	8270E
Q1489-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-05	TP-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-09	TP-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E
Q1489-13	TP-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I22	03/04/2025	8270E

Date/Time 3/5/25 9:35
Raw Sample Received by: RJ (Ext 0-6)
Raw Sample Relinquished by: SM

Date/Time 3/5/25 10:10
Raw Sample Received by: SM
Raw Sample Relinquished by: RJ (Ext 0-6)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1487

Test : SVOC-TCL BNA -20

Prepbatch ID : PB166984,

Sequence ID/Qc Batch ID: BF030525,BF030625,

Standard ID :
EP2590,EP2591,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :
10ul/1000ul sample,E2865,E3551,E3815,E3828,E3846,E3871,E3874,E3876,E3878,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,S12653,S12791,S12963,S12964,S12965,S12966,

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	EP2590	02/26/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 02/26/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2591	02/26/2025	08/14/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 02/26/2025

FROM 8000.00000ml of E3876 + 8000.00000ml of E3878 = Final Quantity: 16000.000 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
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	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

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
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

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

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
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

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

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
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

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

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
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

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

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
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

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 #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

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

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	S11006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

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

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	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, 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

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	S12188

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-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

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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	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

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	S12474

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

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	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

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	S12524

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	08/25/2025	02/25/2025 / anahy	09/20/2024 / anahy	S12653

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

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	S12964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, 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

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)

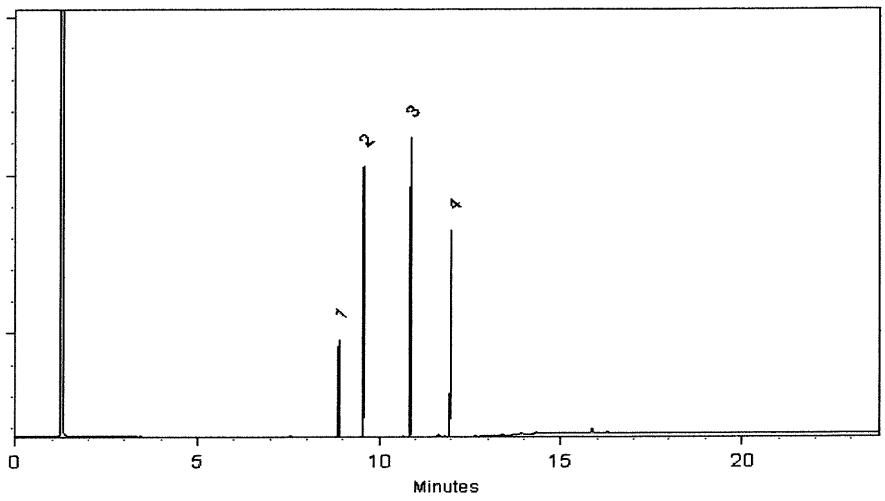
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

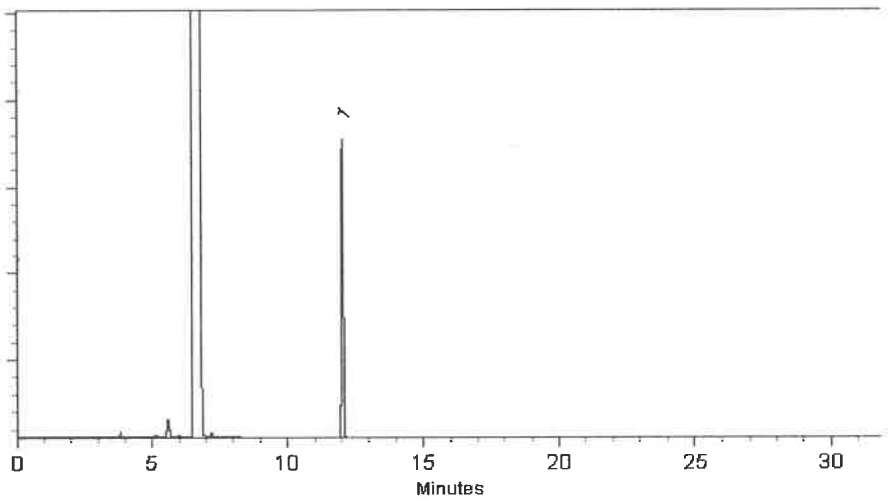
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

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)

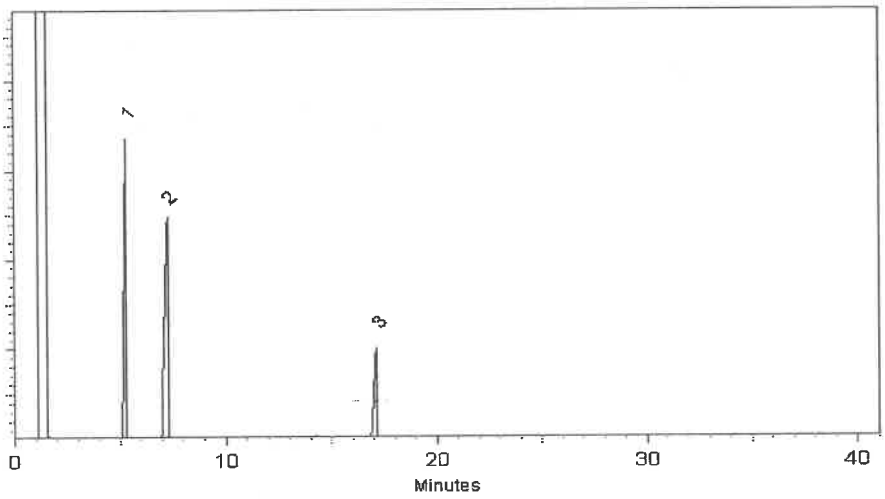
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

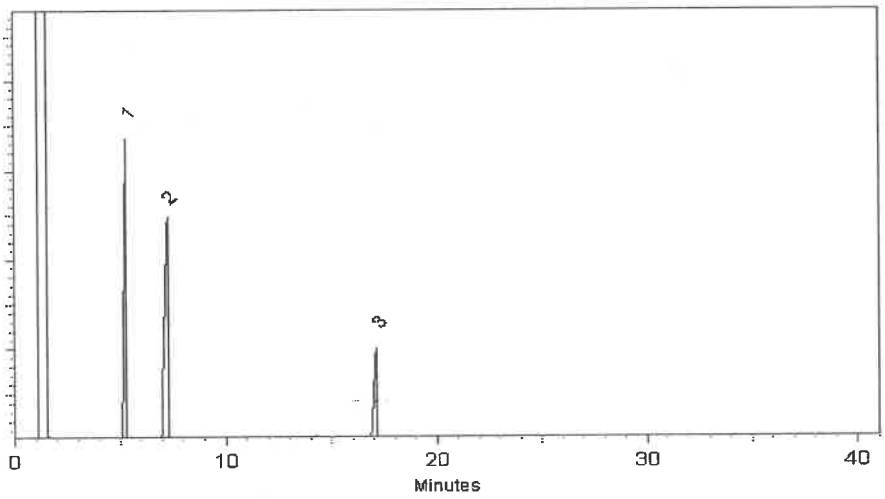
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

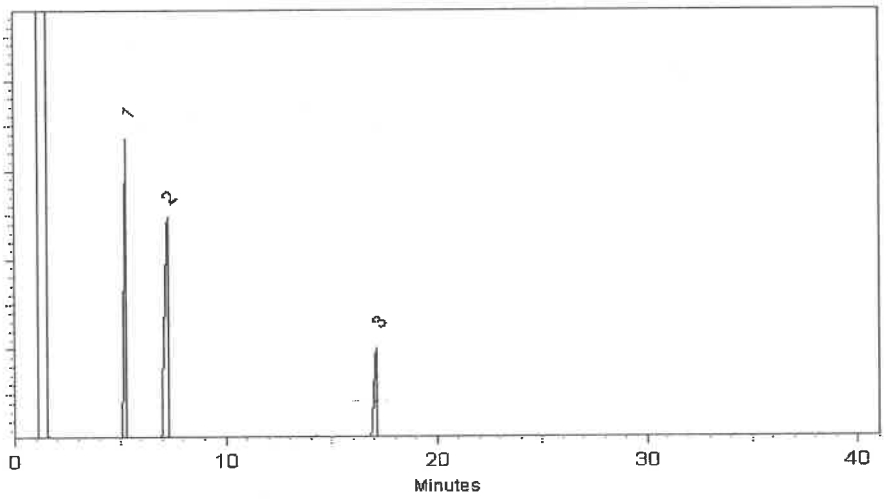
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

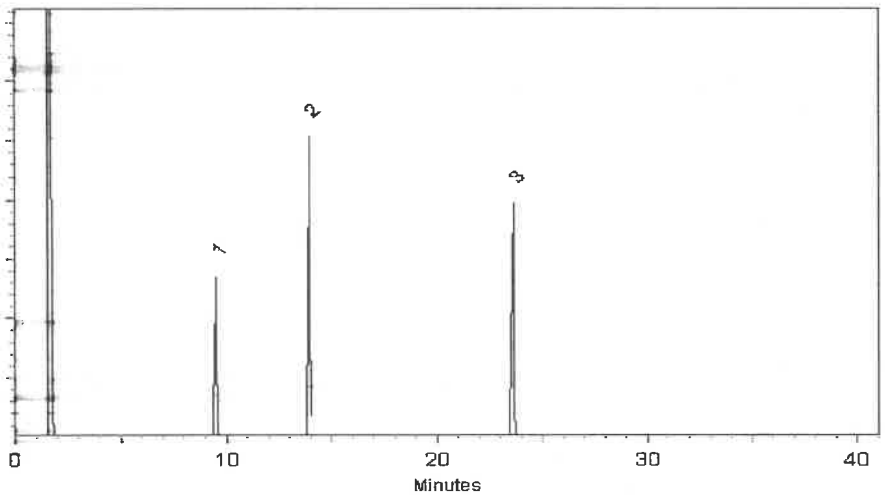
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

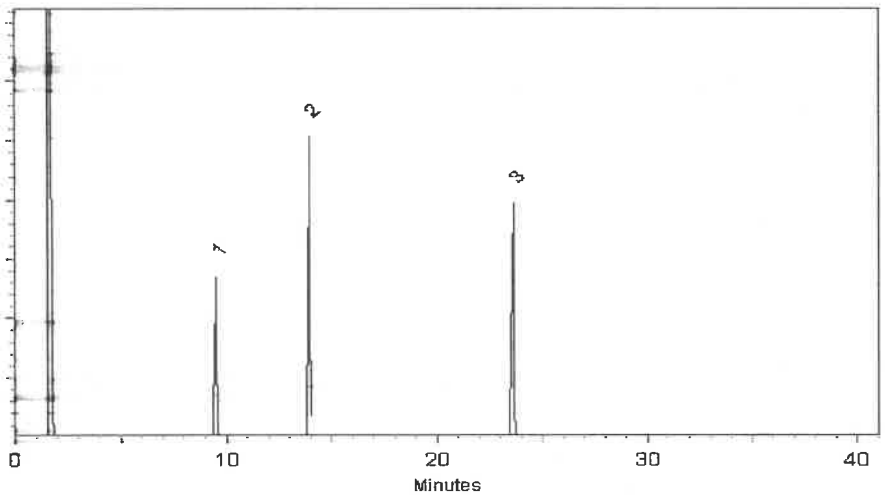
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

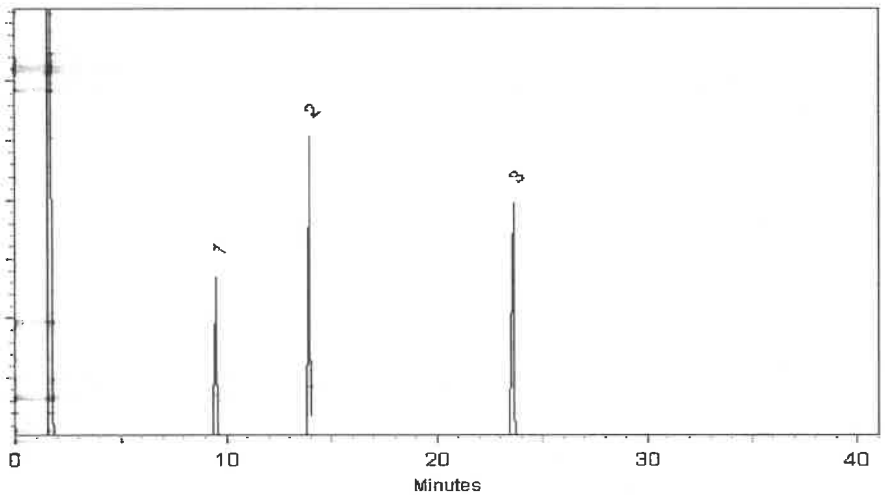
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

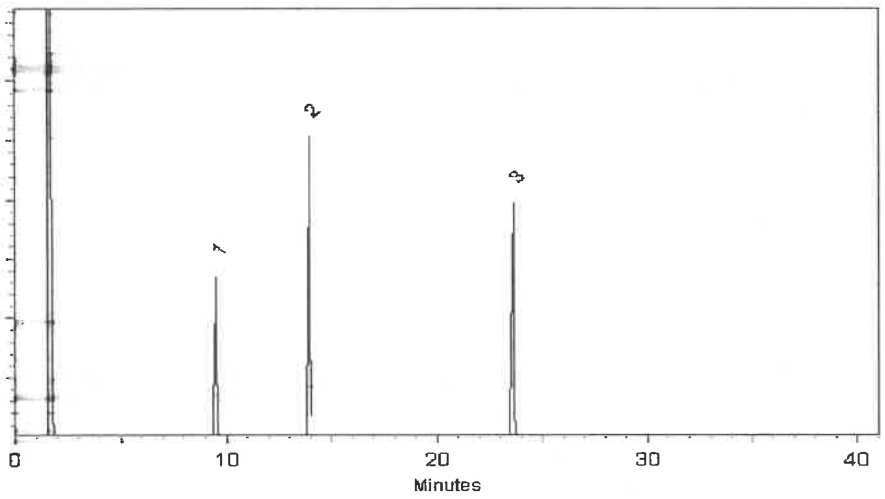
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

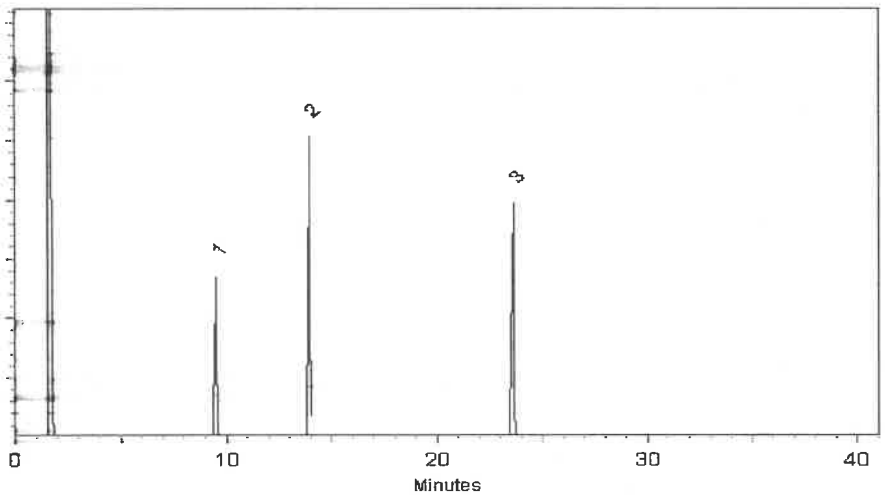
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

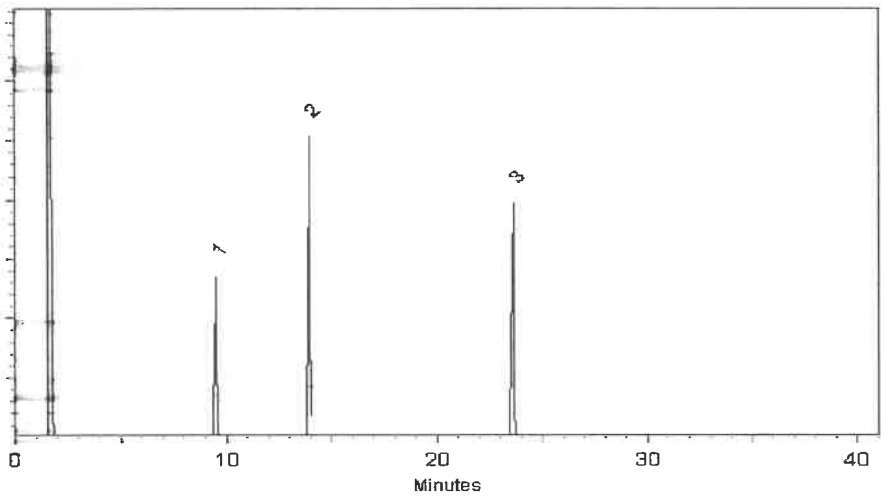
Carrier Gas:
hydrogen-constant pressure 10 psi.

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)

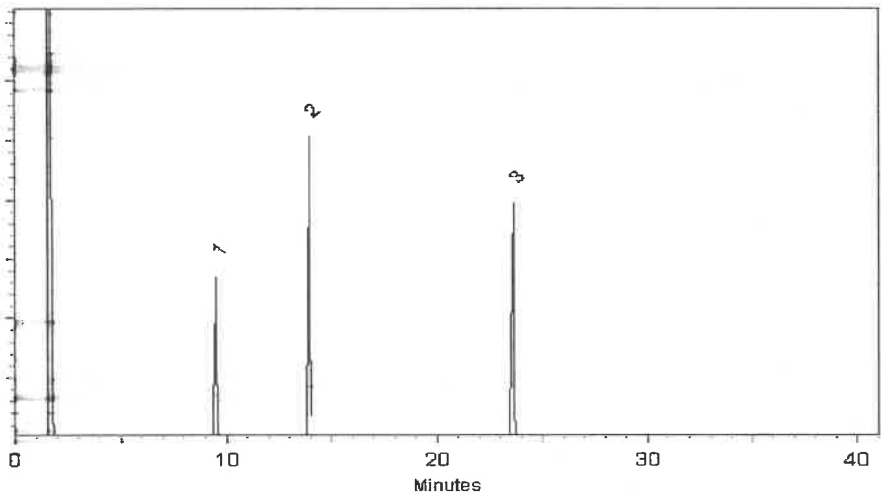
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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

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 2/12/25

E 3876

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 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 3878

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
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.)

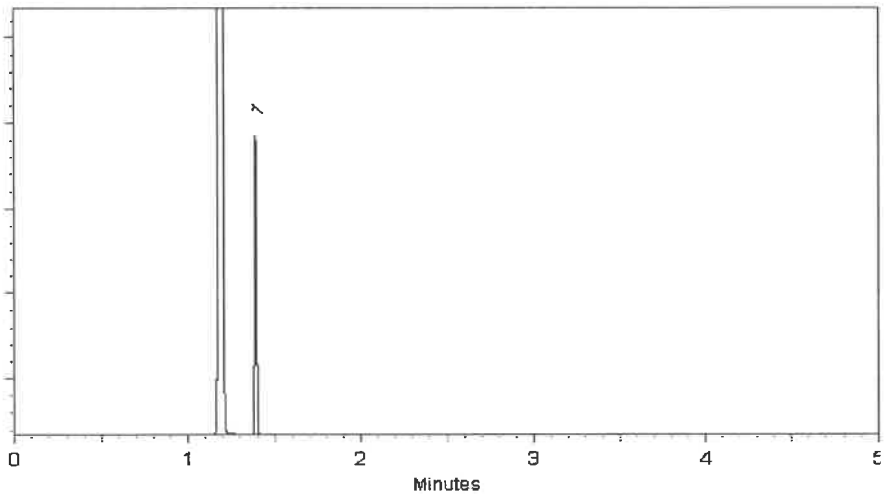
Inj. Temp:
250°C

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.)

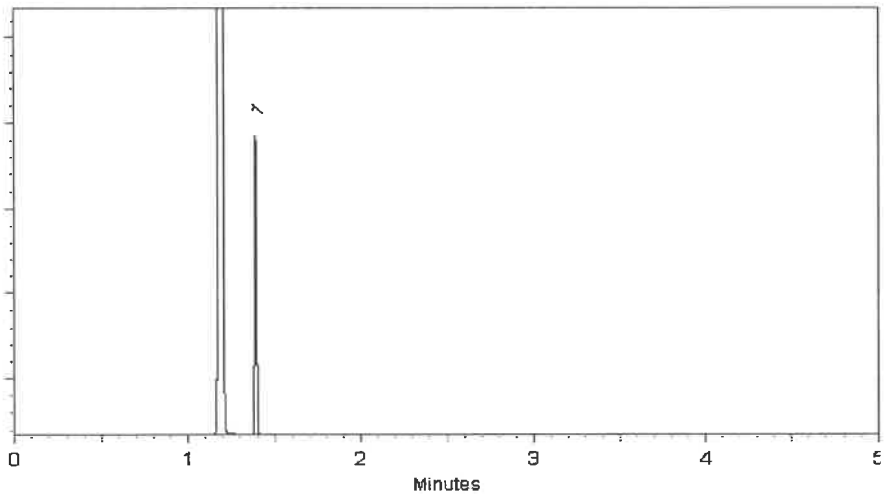
Inj. Temp:
250°C

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.)

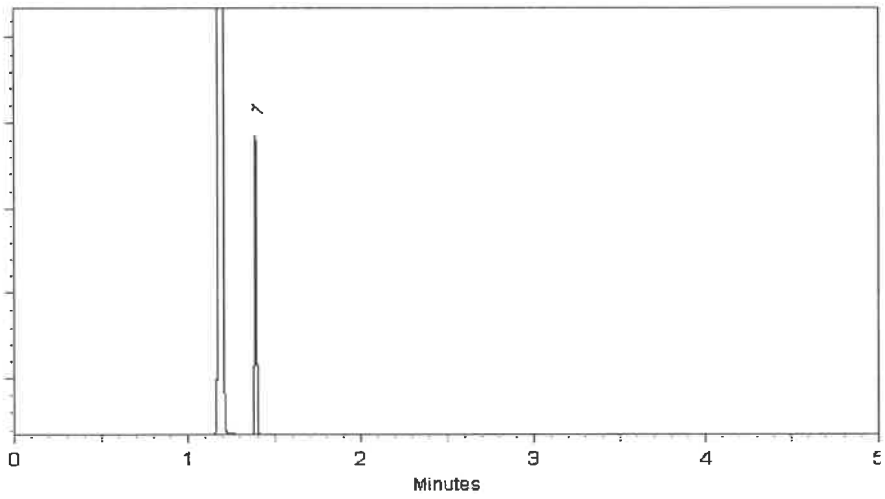
Inj. Temp:
250°C

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.)

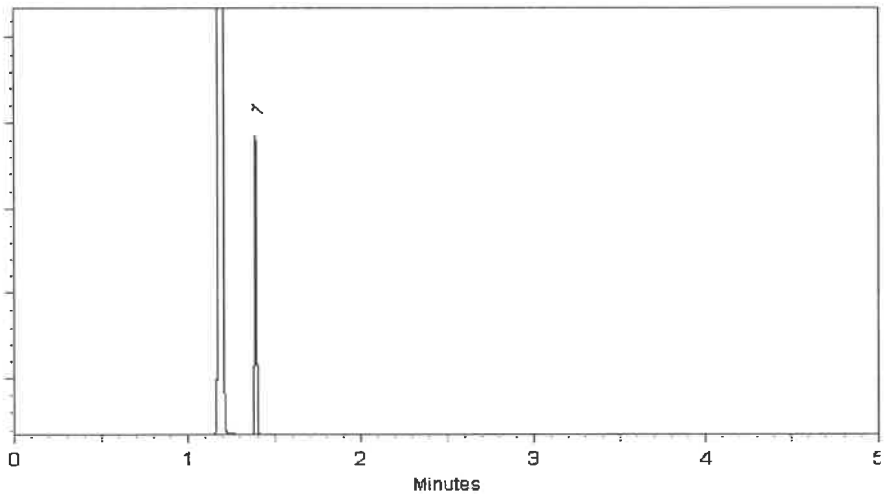
Inj. Temp:
250°C

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.)

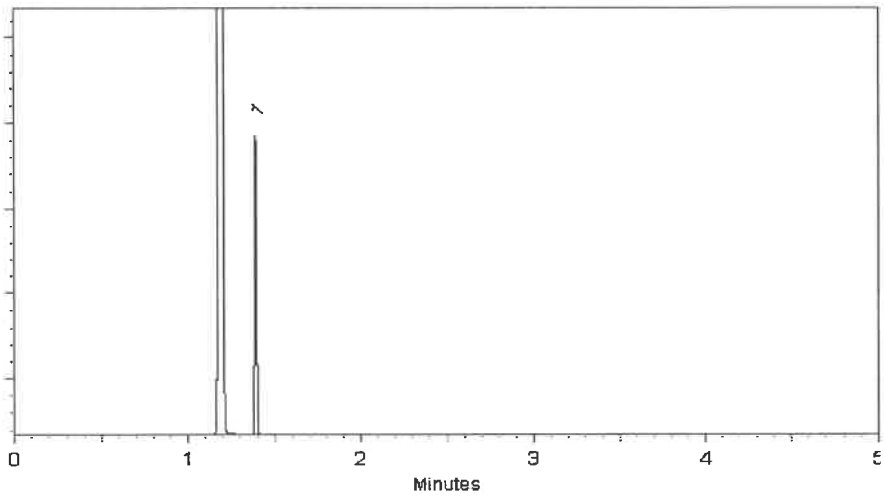
Inj. Temp:
250°C

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

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.)

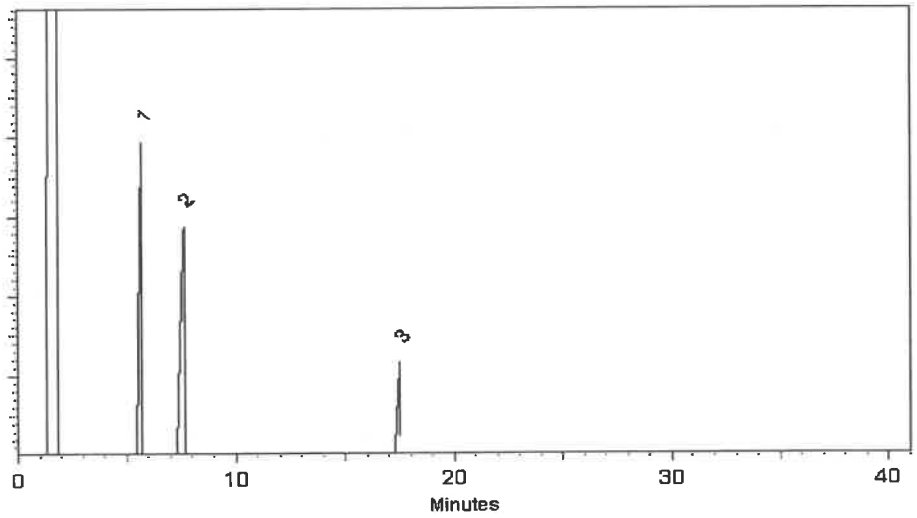
Inj. Temp:
250°C

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

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.)

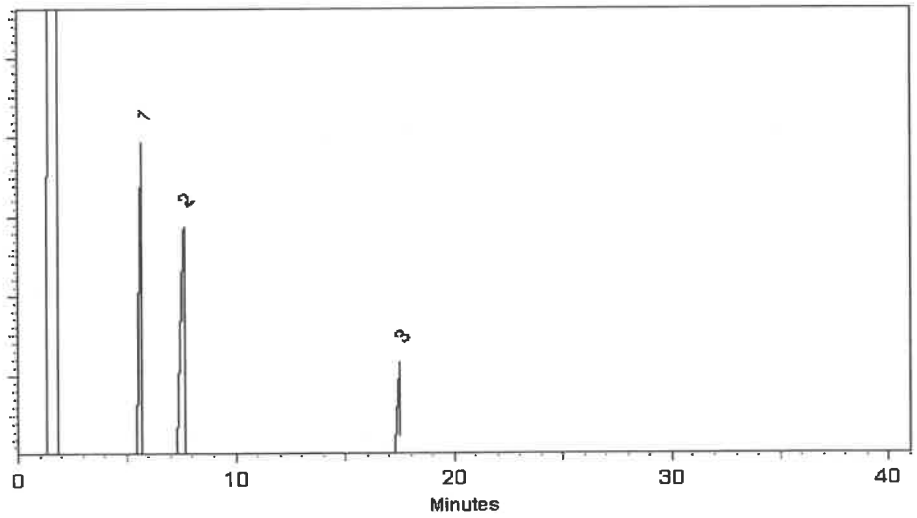
Inj. Temp:
250°C

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

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.)

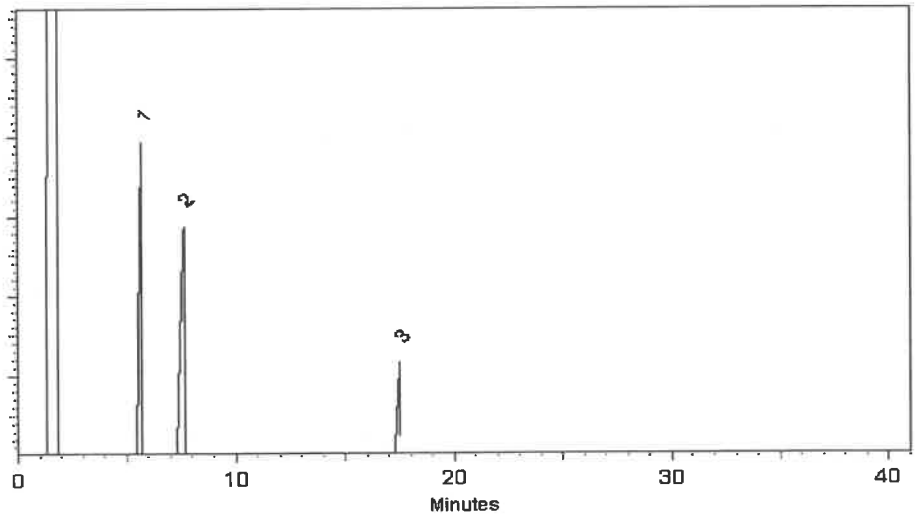
Inj. Temp:
250°C

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

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.)

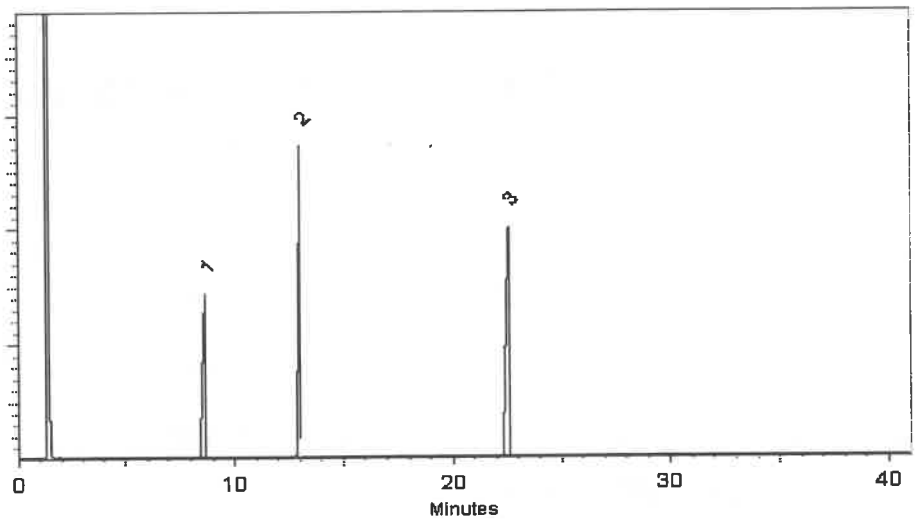
Inj. Temp:
250°C

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.)

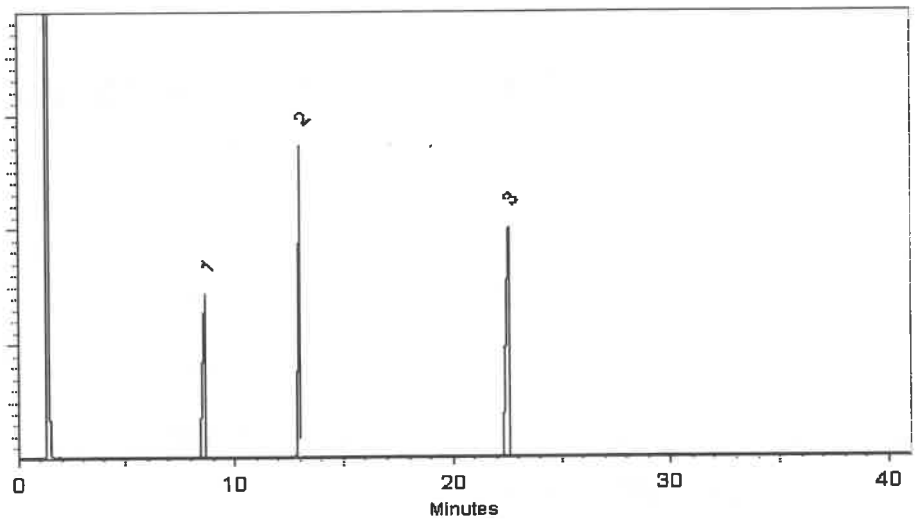
Inj. Temp:
250°C

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.)

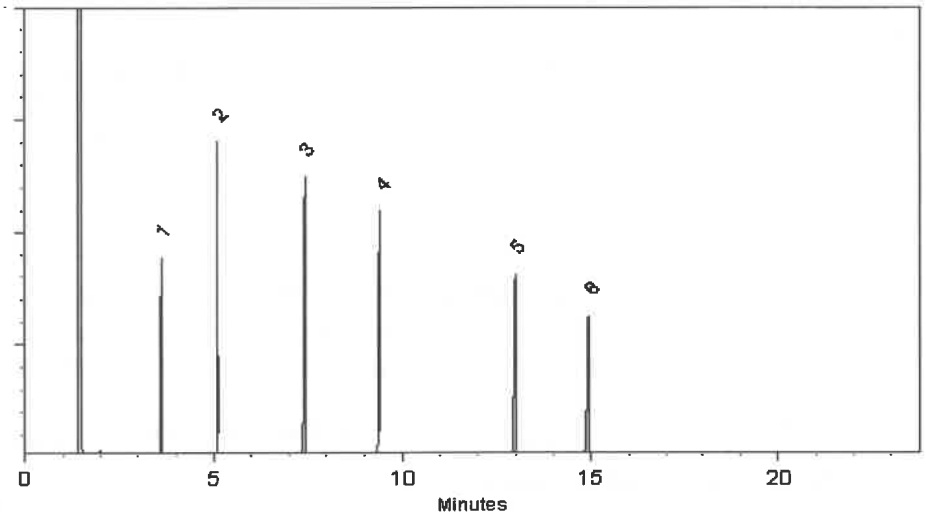
Inj. Temp:
250°C

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

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1487
QUOTE NO. ~~P3864~~
COC Number 2046189

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: JPCL Engineering, LLC
ADDRESS: 2 Clerico Ln, Bldg #1
CITY Hillsborough STATE: NJ ZIP 08844
ATTENTION: Paul Rotondi
PHONE: (609) 203-3846 FAX: N/A

CLIENT PROJECT INFORMATION

PROJECT NAME: 2 Bridges over the Bronx
PROJECT NO.: LOCATION: Bronx NY
PROJECT MANAGER:
e-mail: PRotondi@JPCLengineering.com
PHONE: SAME FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME AS client PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: SVOC 2: Pest 3: PCB 4: METALS 5: 6: 7: 8: 9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
											NONE						← Specify Preservatives
1.	DN-B-42	Soil	X				3	3	3	3	3						A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-4-25 1520	1.
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: IR Gun #1

Page _____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

QA Control Code: A2070148