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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q1421

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

Table Of Contents for Q1421

1) SEMI-VOLATILE DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 8

5) Conformance/Non Conformance 9

6) QA Checklist 11

7) Chronicle 12

8) Hit Summary 13

9) QC Data Summary For SPLP BNA 14

- 9.1) Deuterated Monitoring Compound Summary 15
- 9.2) MS/MSD Summary 16
- 9.3) LCS/LCSD Summary 20
- 9.4) Method Blank Summary 22
- 9.5) GS/MS Tune Summary 23
- 9.6) Internal Standard Area and RT Summary 27

10) Sample Data 31

- 10.1) PB166894TB 32
- 10.2) P001-CLAY-CF01-01 43
- 10.3) P001-CLAY-CF01-02 56
- 10.4) P001-CLAY-CF02-01 68

11) Calibration Data Summary 80

- 11.1) Initial Calibration Data 3
  - 11.1.1) BF022725 81
  - 11.1.2) BP021725 496
- 11.2) Continued Calibration Data 907
  - 11.2.1) BF141804.D 907
  - 11.2.2) BP024116.D 964

12) QC Sample Data 1021

- 12.1) Tune Raw Data 1022
- 12.2) Method Blank Data 1038
- 12.3) LCS Data 1049
- 12.4) MS Data 1101
- 12.5) MSD Data 1153

13) Manual Integration 1205

14) Analytical Runlogs 1209

Table Of Contents for Q1421

15) Extraction Logs 1217

15.1) PB166861.pdf 1217

15.2) PB166861IC.pdf 1222

15.3) PB166894.pdf 1223

15.4) PB166894IC.pdf 1225

16) Standard Prep Logs 1226

17) Shipping Document 1413

17.1) Chain Of Custody 1414

17.2) ROC 1417

17.3) Lab Certificate 1419

17.4) Internal COC 1420

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

Cover Page

Order ID : Q1421

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q1421-01	P001-CLAY-CF01-01
Q1421-02	P001-CLAY-CF01-01MS
Q1421-03	P001-CLAY-CF01-01MSD
Q1421-04	P001-CLAY-CF01-01
Q1421-05	P001-CLAY-CF01-01MS
Q1421-06	P001-CLAY-CF01-01MSD
Q1421-07	P001-CLAY-CF01-02
Q1421-08	P001-CLAY-CF01-02
Q1421-09	P001-CLAY-CF02-01
Q1421-10	P001-CLAY-CF02-01

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
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1421
Test Name: SPLP BNA

A. Number of Samples and Date of Receipt:
10 Solid samples were received on 02/24/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df The samples were analyzed on instrument BNA_P using GC Column ZB-Semi Volatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SPLP BNA was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.

The MSD {Q1421-06MSD} with File ID: BP024122.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[120%], due to matrix interference therefore no corrective action is required.

The RPD met criteria.

The Blank Spike for {PB166894BS} with File ID: BP024118.D met requirements for all samples except for Atrazine[131%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Blank analysis did not indicate the presence of lab contamination.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BF022725.M) for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, this compound is passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BP021725.M) for Caprolactam, 2,4-Dinitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression.

The Continuous Calibration File ID BF141804.D met the requirements except for 4-Nitroaniline, marginally high therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

Concentration of Water Sample:

Concentration ug/L = (Ax) (Is) (Vt) (DF) (GPC)

$$\frac{}{(Ais)\ (RRF)\ (Vo)\ (Vi)}$$

Where,
Ax = Area of the characteristic ion for the compound to be measured.
Ais = Area of the characteristic ion for the internal standard.
Is = Amount of internal standard injected in ng.
Vo = Volume of water extracted in mL.
Vi = Volume of extract injected in uL.
Vt = Volume of the concentrated extract in uL

$\overline{RRF}$ = Mean Relative Response Factor determined from the initial calibration standard.
GPC = $\frac{Vin}{Vout}$ = GPC factor (If no GPC is performed, GPC=1)

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

F. Manual Integration Comments:

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

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

Signature_____

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

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

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

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

CHEMTECH PROJECT NUMBER: Q1421 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The % RSD is greater than 20% in the Initial Calibration (8270-BF022725.M) for 2-Nitrophenol, 2-Nitroaniline, 2,6-Dinitrotoluene, 3-Nitroaniline, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, this compound is passing on Linear Regression and 2,4-Dinitrophenol, is passing on Quadratic regression.			
	The % RSD is greater than 20% in the Initial Calibration (8270-BP021725.M) for Caprolactam, 2,4-Dinitrophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression.			
	The Continuous Calibration File ID BF141804.D met the requirements except for 4-Nitroaniline, marginally high therefore no corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			

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

(CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MSD {Q1421-06MSD} with File ID: BP024122.D recoveries met the acceptable requirements except for 3,3-Dichlorobenzidine[120%], due to matrix interference therefore no corrective action is required.			
	The Blank Spike for {PB166894BS} with File ID: BP024118.D met requirements for all samples except for Atrazine[131%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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

_____ _____

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1421

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 03/07/2025

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

LAB CHRONICLE

OrderID:	Q1421	**OrderDate:**	2/24/2025 2:56:42 PM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	H31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1421-01	**P001-CLAY-CF01-01**	**SOIL**			**02/24/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1421-04	**P001-CLAY-CF01-01**	**Water**			**02/24/25**			**02/24/25**
			SPLP BNA	8270E		02/26/25	02/27/25	
Q1421-07	**P001-CLAY-CF01-02**	**SOIL**			**02/24/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1421-08	**P001-CLAY-CF01-02**	**Water**			**02/24/25**			**02/24/25**
			SPLP BNA	8270E		02/26/25	02/28/25	
Q1421-09	**P001-CLAY-CF02-01**	**SOIL**			**02/24/25**			**02/24/25**
			SVOC-TCL BNA -20	8270E		02/25/25	02/25/25	
Q1421-10	**P001-CLAY-CF02-01**	**Water**			**02/24/25**			**02/24/25**
			SPLP BNA	8270E		02/26/25	02/28/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**P001-CLAY-CF01-01**							
Q1421-04	P001-CLAY-CF01-01	WATER	Dimethylphthalate	9.500		0.93	5	ug/L
Q1421-04	P001-CLAY-CF01-01	WATER	Diethylphthalate	4.000	J	1	5	ug/L
Q1421-04	P001-CLAY-CF01-01	WATER	Di-n-butylphthalate	2.100	J	1.5	5	ug/L
			Total Svoc :			**15.60**		
			Total Concentration:			**15.60**		
Client ID :	**P001-CLAY-CF01-02**							
Q1421-08	P001-CLAY-CF01-02	WATER	Dimethylphthalate	13.700		0.93	5	ug/L
			Total Svoc :			**13.70**		
			Total Concentration:			**13.70**		
Client ID :	**P001-CLAY-CF02-01**							
Q1421-10	P001-CLAY-CF02-01	WATER	Dimethylphthalate	12.100		0.93	5	ug/L
			Total Svoc :			**12.10**		
			Total Concentration:			**12.10**		

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166894BL	PB166894BL	2-Fluorophenol	150	154	103		10	139
		Phenol-d6	150	148	98		10	134
		Nitrobenzene-d5	100	104	104		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	142	95		44	137
		Terphenyl-d14	100	120	120		48	125
PB166894BS	PB166894BS	2-Fluorophenol	150	138	92		10	139
		Phenol-d6	150	129	86		10	134
		Nitrobenzene-d5	100	94.4	94		49	133
		2-Fluorobiphenyl	100	90.5	90		52	132
		2,4,6-Tribromophenol	150	140	93		44	137
		Terphenyl-d14	100	92.5	92		48	125
PB166894TB	PB166894TB	2-Fluorophenol	150	150	100		10	139
		Phenol-d6	150	150	100		10	134
		Nitrobenzene-d5	100	97.9	98		49	133
		2-Fluorobiphenyl	100	91.5	92		52	132
		2,4,6-Tribromophenol	150	150	100		44	137
		Terphenyl-d14	100	116	116		48	125
Q1421-04	P001-CLAY-CF01-01	2-Fluorophenol	150	67.2	45		10	139
		Phenol-d6	150	39.1	26		10	134
		Nitrobenzene-d5	100	108	108		49	133
		2-Fluorobiphenyl	100	102	102		52	132
		2,4,6-Tribromophenol	150	178	119		44	137
		Terphenyl-d14	100	108	108		48	125
Q1421-05MS	P001-CLAY-CF01-01MS	2-Fluorophenol	150	68.4	46		10	139
		Phenol-d6	150	40.4	27		10	134
		Nitrobenzene-d5	100	103	103		49	133
		2-Fluorobiphenyl	100	95.6	96		52	132
		2,4,6-Tribromophenol	150	160	107		44	137
		Terphenyl-d14	100	102	102		48	125
Q1421-06MSD	P001-CLAY-CF01-01MSD	2-Fluorophenol	150	70.8	47		10	139
		Phenol-d6	150	42.7	28		10	134
		Nitrobenzene-d5	100	106	106		49	133
		2-Fluorobiphenyl	100	97.8	98		52	132
		2,4,6-Tribromophenol	150	167	111		44	137
		Terphenyl-d14	100	102	102		48	125
Q1421-08	P001-CLAY-CF01-02	2-Fluorophenol	150	58.4	39		10	139
		Phenol-d6	150	34.9	23		10	134
		Nitrobenzene-d5	100	112	112		49	133
		2-Fluorobiphenyl	100	90.8	91		52	132
		2,4,6-Tribromophenol	150	168	112		44	137
		Terphenyl-d14	100	77.7	78		48	125
Q1421-10	P001-CLAY-CF02-01	2-Fluorophenol	150	64.4	43		10	139
		Phenol-d6	150	38.7	26		10	134
		Nitrobenzene-d5	100	116	116		49	133
		2-Fluorobiphenyl	100	95.4	95		52	132
		2,4,6-Tribromophenol	150	169	113		44	137
		Terphenyl-d14	100	92.4	92		48	125

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1421-05MS		**Client Sample ID: P001-CLAY-CF01-01MS**						**DataFile: BP024121.D**			
Benzaldehyde	50	0	30.5	ug/L	61				10	137	
Phenol	50	0	13.0	ug/L	26				10	130	
bis(2-Chloroethyl)ether	50	0	42.8	ug/L	86				29	141	
2-Chlorophenol	50	0	34.7	ug/L	69				23	127	
2-Methylphenol	50	0	32.2	ug/L	64				60	131	
2,2-oxybis(1-Chloropropane)	50	0	43.8	ug/L	88				36	141	
Acetophenone	50	0	48.5	ug/L	97				31	164	
3+4-Methylphenols	50	0	28.0	ug/L	56				54	136	
N-Nitroso-di-n-propylamine	50	0	46.5	ug/L	93				36	147	
Hexachloroethane	50	0	27.8	ug/L	56				19	146	
Nitrobenzene	50	0	43.5	ug/L	87				62	112	
Isophorone	50	0	50.2	ug/L	100				39	146	
2-Nitrophenol	50	0	45.1	ug/L	90				30	148	
2,4-Dimethylphenol	50	0	53.8	ug/L	108				17	143	
bis(2-Chloroethoxy)methane	50	0	44.7	ug/L	89				39	143	
2,4-Dichlorophenol	50	0	42.4	ug/L	85				22	146	
Naphthalene	50	0	37.0	ug/L	74				17	157	
4-Chloroaniline	50	0	37.8	ug/L	76				10	95	
Hexachlorobutadiene	50	0	29.7	ug/L	59				52	125	
Caprolactam	50	0	12.7	ug/L	25				10	130	
4-Chloro-3-methylphenol	50	0	40.3	ug/L	81				17	148	
2-Methylnaphthalene	50	0	38.6	ug/L	77				38	146	
Hexachlorocyclopentadiene	100	0	120	ug/L	120				20	153	
2,4,6-Trichlorophenol	50	0	47.3	ug/L	95				78	112	
2,4,5-Trichlorophenol	50	0	46.8	ug/L	94				71	111	
1,1-Biphenyl	50	0	47.5	ug/L	95				38	154	
2-Chloronaphthalene	50	0	42.5	ug/L	85				41	145	
2-Nitroaniline	50	0	50.8	ug/L	102				39	151	
Dimethylphthalate	50	9.50	57.3	ug/L	96				42	147	
Acenaphthylene	50	0	47.9	ug/L	96				40	141	
2,6-Dinitrotoluene	50	0	48.4	ug/L	97				43	148	
3-Nitroaniline	50	0	22.9	ug/L	46				10	111	
Acenaphthene	50	0	44.7	ug/L	89				37	146	
2,4-Dinitrophenol	100	0	59.6	ug/L	60				14	167	
4-Nitrophenol	100	0	35.3	ug/L	35				10	130	
Dibenzofuran	50	0	43.0	ug/L	86				41	145	
2,4-Dinitrotoluene	50	0	52.4	ug/L	105				74	137	
Diethylphthalate	50	4.00	45.9	ug/L	84				41	148	
4-Chlorophenyl-phenylether	50	0	44.1	ug/L	88				38	149	
Fluorene	50	0	45.3	ug/L	91				39	144	
4-Nitroaniline	50	0	35.1	ug/L	70				27	138	
4,6-Dinitro-2-methylphenol	50	0	35.8	ug/L	72				32	175	
N-Nitrosodiphenylamine	50	0	46.6	ug/L	93				40	150	
4-Bromophenyl-phenylether	50	0	44.4	ug/L	89				42	151	
Hexachlorobenzene	50	0	44.6	ug/L	89				72	115	
Atrazine	50	0	69.2	ug/L	138				20	162	

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	100	0	99.1	ug/L	99				52	162	
Phenanthrene	50	0	45.6	ug/L	91				40	147	
Anthracene	50	0	48.4	ug/L	97				41	146	
Carbazole	50	0	48.7	ug/L	97				37	154	
Di-n-butylphthalate	50	2.10	50.3	ug/L	96				40	151	
Fluoranthene	50	0	46.8	ug/L	94				42	146	
Pyrene	50	0	48.5	ug/L	97				41	149	
Butylbenzylphthalate	50	0	55.0	ug/L	110				39	155	
3,3-Dichlorobenzidine	50	0	55.1	ug/L	110				10	114	
Benzo(a)anthracene	50	0	48.3	ug/L	97				41	147	
Chrysene	50	0	47.0	ug/L	94				44	144	
bis(2-Ethylhexyl)phthalate	50	0	51.7	ug/L	103				33	160	
Di-n-octyl phthalate	50	0	52.9	ug/L	106				36	158	
Benzo(b)fluoranthene	50	0	44.2	ug/L	88				40	150	
Benzo(k)fluoranthene	50	0	45.7	ug/L	91				40	147	
Benzo(a)pyrene	50	0	49.4	ug/L	99				42	147	
Indeno(1,2,3-cd)pyrene	50	0	49.9	ug/L	100				30	166	
Dibenz(a,h)anthracene	50	0	48.6	ug/L	97				23	172	
Benzo(g,h,i)perylene	50	0	46.0	ug/L	92				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	44.9	ug/L	90				89	102	
1,4-Dioxane	50	0	20.9	ug/L	42				38	130	
2,3,4,6-Tetrachlorophenol	50	0	46.9	ug/L	94				91	111	

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1421-06MSD		**Client Sample ID: P001-CLAY-CF01-01MSD**						**DataFile: BP024122.D**			
Benzaldehyde	50	0	31.7	ug/L	63		3		10	137	20
Phenol	50	0	13.8	ug/L	28		7		10	130	20
bis(2-Chloroethyl)ether	50	0	45.0	ug/L	90		5		29	141	20
2-Chlorophenol	50	0	36.2	ug/L	72		4		23	127	20
2-Methylphenol	50	0	34.0	ug/L	68		6		60	131	20
2,2-oxybis(1-Chloropropane)	50	0	46.8	ug/L	94		7		36	141	20
Acetophenone	50	0	50.2	ug/L	100		3		31	164	20
3+4-Methylphenols	50	0	30.3	ug/L	61		9		54	136	20
N-Nitroso-di-n-propylamine	50	0	51.0	ug/L	102		9		36	147	20
Hexachloroethane	50	0	28.7	ug/L	57		2		19	146	20
Nitrobenzene	50	0	45.1	ug/L	90		3		62	112	20
Isophorone	50	0	53.7	ug/L	107		7		39	146	20
2-Nitrophenol	50	0	45.2	ug/L	90		0		30	148	20
2,4-Dimethylphenol	50	0	56.3	ug/L	113		5		17	143	20
bis(2-Chloroethoxy)methane	50	0	46.9	ug/L	94		5		39	143	20
2,4-Dichlorophenol	50	0	44.8	ug/L	90		6		22	146	20
Naphthalene	50	0	38.7	ug/L	77		4		17	157	20
4-Chloroaniline	50	0	39.9	ug/L	80		5		10	95	20
Hexachlorobutadiene	50	0	30.8	ug/L	62		5		52	125	20
Caprolactam	50	0	13.5	ug/L	27		8		10	130	20
4-Chloro-3-methylphenol	50	0	44.5	ug/L	89		9		17	148	20
2-Methylnaphthalene	50	0	41.9	ug/L	84		9		38	146	20
Hexachlorocyclopentadiene	100	0	120	ug/L	120		0		20	153	20
2,4,6-Trichlorophenol	50	0	47.8	ug/L	96		1		78	112	20
2,4,5-Trichlorophenol	50	0	48.6	ug/L	97		3		71	111	20
1,1-Biphenyl	50	0	48.2	ug/L	96		1		38	154	20
2-Chloronaphthalene	50	0	43.4	ug/L	87		2		41	145	20
2-Nitroaniline	50	0	52.4	ug/L	105		3		39	151	20
Dimethylphthalate	50	9.50	61.4	ug/L	104		8		42	147	20
Acenaphthylene	50	0	50.3	ug/L	101		5		40	141	20
2,6-Dinitrotoluene	50	0	51.2	ug/L	102		5		43	148	20
3-Nitroaniline	50	0	24.7	ug/L	49		6		10	111	20
Acenaphthene	50	0	46.5	ug/L	93		4		37	146	20
2,4-Dinitrophenol	100	0	71.9	ug/L	72		18		14	167	20
4-Nitrophenol	100	0	36.2	ug/L	36		3		10	130	20
Dibenzofuran	50	0	44.9	ug/L	90		5		41	145	20
2,4-Dinitrotoluene	50	0	55.3	ug/L	111		6		74	137	20
Diethylphthalate	50	4.00	50.9	ug/L	94		11		41	148	20
4-Chlorophenyl-phenylether	50	0	46.8	ug/L	94		7		38	149	20
Fluorene	50	0	48.2	ug/L	96		5		39	144	20
4-Nitroaniline	50	0	36.6	ug/L	73		4		27	138	20
4,6-Dinitro-2-methylphenol	50	0	37.5	ug/L	75		4		32	175	20
N-Nitrosodiphenylamine	50	0	48.5	ug/L	97		4		40	150	20
4-Bromophenyl-phenylether	50	0	46.0	ug/L	92		3		42	151	20
Hexachlorobenzene	50	0	46.8	ug/L	94		5		72	115	20
Atrazine	50	0	72.7	ug/L	145		5		20	162	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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	100	0	95.1	ug/L	95		4		52	162	20
Phenanthrene	50	0	47.4	ug/L	95		4		40	147	20
Anthracene	50	0	50.3	ug/L	101		4		41	146	20
Carbazole	50	0	50.1	ug/L	100		3		37	154	20
Di-n-butylphthalate	50	2.10	54.4	ug/L	105		9		40	151	20
Fluoranthene	50	0	48.6	ug/L	97		3		42	146	20
Pyrene	50	0	47.0	ug/L	94		3		41	149	20
Butylbenzylphthalate	50	0	55.9	ug/L	112		2		39	155	20
3,3-Dichlorobenzidine	50	0	59.8	ug/L	120	*	9		10	114	20
Benzo(a)anthracene	50	0	50.0	ug/L	100		3		41	147	20
Chrysene	50	0	47.8	ug/L	96		2		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	55.7	ug/L	111		7		33	160	20
Di-n-octyl phthalate	50	0	58.4	ug/L	117		10		36	158	20
Benzo(b)fluoranthene	50	0	45.5	ug/L	91		3		40	150	20
Benzo(k)fluoranthene	50	0	47.7	ug/L	95		4		40	147	20
Benzo(a)pyrene	50	0	51.8	ug/L	104		5		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	52.9	ug/L	106		6		30	166	20
Dibenz(a,h)anthracene	50	0	51.3	ug/L	103		6		23	172	20
Benzo(g,h,i)perylene	50	0	47.9	ug/L	96		4		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	44.7	ug/L	89		1		89	102	20
1,4-Dioxane	50	0	20.4	ug/L	41		2		38	130	20
2,3,4,6-Tetrachlorophenol	50	0	48.1	ug/L	96		2		91	111	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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8270E **DataFile:** BP024118.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166894BS	Benzaldehyde	50	30.4	ug/L	61				10	162	
	Phenol	50	43.4	ug/L	87				66	118	
	bis(2-Chloroethyl)ether	50	43.2	ug/L	86				62	103	
	2-Chlorophenol	50	41.2	ug/L	82				70	117	
	2-Methylphenol	50	43.7	ug/L	87				69	109	
	2,2-oxybis(1-Chloropropane)	50	46.6	ug/L	93				65	100	
	Acetophenone	50	47.6	ug/L	95				60	104	
	3+4-Methylphenols	50	43.0	ug/L	86				67	106	
	N-Nitroso-di-n-propylamine	50	43.2	ug/L	86				57	107	
	Hexachloroethane	50	42.7	ug/L	85				76	118	
	Nitrobenzene	50	44.7	ug/L	89				58	106	
	Isophorone	50	46.0	ug/L	92				61	102	
	2-Nitrophenol	50	43.3	ug/L	87				70	115	
	2,4-Dimethylphenol	50	55.2	ug/L	110				42	142	
	bis(2-Chloroethoxy)methane	50	42.3	ug/L	85				58	109	
	2,4-Dichlorophenol	50	42.1	ug/L	84				66	115	
	Naphthalene	50	41.3	ug/L	83				64	107	
	4-Chloroaniline	50	16.3	ug/L	33				10	85	
	Hexachlorobutadiene	50	41.7	ug/L	83				69	101	
	Caprolactam	50	43.3	ug/L	87				58	128	
	4-Chloro-3-methylphenol	50	42.1	ug/L	84				65	114	
	2-Methylnaphthalene	50	39.3	ug/L	79				64	107	
	Hexachlorocyclopentadiene	100	160	ug/L	160				36	160	
	2,4,6-Trichlorophenol	50	43.7	ug/L	87				61	110	
	2,4,5-Trichlorophenol	50	43.4	ug/L	87				70	106	
	1,1-Biphenyl	50	47.3	ug/L	95				72	98	
	2-Chloronaphthalene	50	43.0	ug/L	86				59	106	
	2-Nitroaniline	50	49.1	ug/L	98				73	114	
	Dimethylphthalate	50	42.3	ug/L	85				64	103	
	Acenaphthylene	50	46.4	ug/L	93				79	103	
	2,6-Dinitrotoluene	50	43.6	ug/L	87				64	110	
	3-Nitroaniline	50	24.7	ug/L	49				28	100	
	Acenaphthene	50	43.2	ug/L	86				59	113	
	2,4-Dinitrophenol	100	83.3	ug/L	83				36	166	
	4-Nitrophenol	100	110	ug/L	110				45	147	
	Dibenzofuran	50	41.2	ug/L	82				65	106	
	2,4-Dinitrotoluene	50	49.1	ug/L	98				60	115	
	Diethylphthalate	50	41.9	ug/L	84				63	105	
	4-Chlorophenyl-phenylether	50	41.1	ug/L	82				61	104	
	Fluorene	50	43.3	ug/L	87				64	107	
	4-Nitroaniline	50	41.1	ug/L	82				55	125	
	4,6-Dinitro-2-methylphenol	50	41.0	ug/L	82				62	132	
	N-Nitrosodiphenylamine	50	44.3	ug/L	89				61	109	
	4-Bromophenyl-phenylether	50	42.0	ug/L	84				73	103	

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.: Q1421

Client: Weston Solutions, Inc.

Analytical Method: 8270E **DataFile:** BP024118.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB166894BS	Hexachlorobenzene	50	42.9	ug/L	86				73	106	
	Atrazine	50	65.7	ug/L	131		*		76	120	
	Pentachlorophenol	100	93.9	ug/L	94				47	114	
	Phenanthrene	50	44.6	ug/L	89				62	109	
	Anthracene	50	47.1	ug/L	94				65	110	
	Carbazole	50	47.1	ug/L	94				62	106	
	Di-n-butylphthalate	50	45.2	ug/L	90				64	106	
	Fluoranthene	50	45.5	ug/L	91				64	110	
	Pyrene	50	43.4	ug/L	87				71	103	
	Butylbenzylphthalate	50	47.2	ug/L	94				61	105	
	3,3-Dichlorobenzidine	50	30.1	ug/L	60				43	108	
	Benzo(a)anthracene	50	45.2	ug/L	90				62	107	
	Chrysene	50	44.1	ug/L	88				61	108	
	bis(2-Ethylhexyl)phthalate	50	45.5	ug/L	91				59	110	
	Di-n-octyl phthalate	50	46.0	ug/L	92				52	139	
	Benzo(b)fluoranthene	50	42.4	ug/L	85				77	113	
	Benzo(k)fluoranthene	50	44.4	ug/L	89				77	105	
	Benzo(a)pyrene	50	48.0	ug/L	96				72	131	
	Indeno(1,2,3-cd)pyrene	50	47.8	ug/L	96				72	105	
	Dibenz(a,h)anthracene	50	46.4	ug/L	93				78	115	
	Benzo(g,h,i)perylene	50	43.5	ug/L	87				75	118	
	1,2,4,5-Tetrachlorobenzene	50	47.3	ug/L	95				72	101	
	1,4-Dioxane	50	43.5	ug/L	87				38	125	
	2,3,4,6-Tetrachlorophenol	50	42.9	ug/L	86				63	116	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166894BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BP024117.D Lab Sample ID: PB166894BL

Instrument ID: BNA_P Date Extracted: 02/26/2025

Matrix: (soil/water) Water Date Analyzed: 02/27/2025

Level: (low/med) LOW Time Analyzed: 11:47

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
P001-CLAY-CF01-02	Q1421-08	BF141806.D	02/28/2025
P001-CLAY-CF02-01	Q1421-10	BF141807.D	02/28/2025
PB166894BS	PB166894BS	BP024118.D	02/27/2025
PB166894TB	PB166894TB	BP024119.D	02/27/2025
P001-CLAY-CF01-01	Q1421-04	BP024120.D	02/27/2025
P001-CLAY-CF01-01MS	Q1421-05MS	BP024121.D	02/27/2025
P001-CLAY-CF01-01MSD	Q1421-06MSD	BP024122.D	02/27/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

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	100
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: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BF141803.D DFTPP Injection Date: 02/28/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	34
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.5 (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	BF141804.D	02/28/2025	10:03
P001-CLAY-CF01-02	Q1421-08	BF141806.D	02/28/2025	13:22
P001-CLAY-CF02-01	Q1421-10	BF141807.D	02/28/2025	13:52

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: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BP024068.D DFTPP Injection Date: 02/17/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	33
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	45.4
197	Less than 2.0% of mass 198	0.2
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	3.8
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.4 (19.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024069.D	02/17/2025	11:28
SSTDICC005	SSTDICC005	BP024070.D	02/17/2025	12:09
SSTDICC010	SSTDICC010	BP024071.D	02/17/2025	12:49
SSTDICC020	SSTDICC020	BP024072.D	02/17/2025	13:31
SSTDICCC040	SSTDICCC040	BP024073.D	02/17/2025	14:12
SSTDICC050	SSTDICC050	BP024074.D	02/17/2025	14:52
SSTDICC060	SSTDICC060	BP024075.D	02/17/2025	15:33
SSTDICC080	SSTDICC080	BP024076.D	02/17/2025	16:14

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1421 SDG NO.: Q1421

Lab File ID: BP024115.D DFTPP Injection Date: 02/27/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.2
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	36.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.7
197	Less than 2.0% of mass 198	0.1
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	26.9
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.6 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP024116.D	02/27/2025	10:42
PB166894BL	PB166894BL	BP024117.D	02/27/2025	11:47
PB166894BS	PB166894BS	BP024118.D	02/27/2025	13:00
PB166894TB	PB166894TB	BP024119.D	02/27/2025	13:41
P001-CLAY-CF01-01	Q1421-04	BP024120.D	02/27/2025	14:27
P001-CLAY-CF01-01MS	Q1421-05MS	BP024121.D	02/27/2025	15:08
P001-CLAY-CF01-01MSD	Q1421-06MSD	BP024122.D	02/27/2025	15:49

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/28/2025

Lab File ID: BF141804.D Time Analyzed: 10:03

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	307952	6.886	1208870	8.17	650148	9.93
	UPPER LIMIT	615904	7.386	2417740	8.669	1300300	10.427
	LOWER LIMIT	153976	6.386	604435	7.669	325074	9.427
	EPA SAMPLE NO.						
01	P001-CLAY-CF01-02	243666	6.89	971925	8.17	563590	9.92
02	P001-CLAY-CF02-01	260046	6.89	1033710	8.17	583774	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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/28/2025

Lab File ID: BF141804.D Time Analyzed: 10:03

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	1053740	11.41	667542	14.051	556281	15.521
	UPPER LIMIT	2107480	11.91	1335080	14.551	1112560	16.021
	LOWER LIMIT	526870	10.91	333771	13.551	278141	15.021
	EPA SAMPLE NO.						
01	P001-CLAY-CF01-02	1041260	11.41	1003210	14.05	850977	15.52
02	P001-CLAY-CF02-01	1061720	11.40	832766	14.05	649277	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.

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/27/2025

Lab File ID: BP024116.D Time Analyzed: 10:42

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	368424	7.757	1409370	10.53	792946	14.39
	UPPER LIMIT	736848	8.257	2818740	11.028	1585890	14.892
	LOWER LIMIT	184212	7.257	704685	10.028	396473	13.892
	EPA SAMPLE NO.						
01	PB166894BL	431765	7.73	1653490	10.52	951686	14.40
02	PB166894BS	418803	7.73	1531380	10.52	827031	14.38
03	PB166894TB	450576	7.76	1837370	10.53	1172280	14.39
04	P001-CLAY-CF01-01	228273	7.76	878256	10.53	521945	14.39
05	P001-CLAY-CF01-01MS	426681	7.76	1618070	10.53	912646	14.39
06	P001-CLAY-CF01-01MSD	284603	7.76	1123650	10.54	686914	14.39

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.: Q1421 SAS No.: Q1421 SDG NO.: Q1421

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/27/2025

Lab File ID: BP024116.D Time Analyzed: 10:42

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1432340	17.192	1516790	21.645	1638340	25.015
	UPPER LIMIT	2864680	17.692	3033580	22.145	3276680	25.515
	LOWER LIMIT	716170	16.692	758395	21.145	819170	24.515
	EPA SAMPLE NO.						
01	PB166894BL	1690520	17.21	1378840	21.66	1338240	25.06
02	PB166894BS	1522670	17.19	1701640	21.66	1810660	25.05
03	PB166894TB	2221250	17.18	1680650	21.65	1598180	25.03
04	P001-CLAY-CF01-01	1053300	17.20	1205740	21.66	1422370	25.05
05	P001-CLAY-CF01-01MS	1719500	17.18	1738990	21.64	1915610	25.03
06	P001-CLAY-CF01-01MSD	1334600	17.19	1469320	21.65	1682190	25.04

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/26/25
Project:	RFP 905	Date Received:	02/26/25
Client Sample ID:	PB166894TB	SDG No.:	Q1421
Lab Sample ID:	PB166894TB	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024119.D	1	02/26/25 11:20	02/27/25 13:41	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/26/25
Project:	RFP 905	Date Received:	02/26/25
Client Sample ID:	PB166894TB	SDG No.:	Q1421
Lab Sample ID:	PB166894TB	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024119.D	1	02/26/25 11:20	02/27/25 13:41	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	UQ	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	02/26/25
Project:	RFP 905			Date Received:	02/26/25
Client Sample ID:	PB166894TB			SDG No.:	Q1421
Lab Sample ID:	PB166894TB			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SPLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024119.D	1	02/26/25 11:20	02/27/25 13:41	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	150		10 - 139	100%	SPK: 150
13127-88-3	Phenol-d6	150		10 - 134	100%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.9		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	91.5		52 - 132	92%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		44 - 137	100%	SPK: 150
1718-51-0	Terphenyl-d14	116		48 - 125	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	451000	7.757			
1146-65-2	Naphthalene-d8	1840000	10.534			
15067-26-2	Acenaphthene-d10	1170000	14.386			
1517-22-2	Phenanthrene-d10	2220000	17.18			
1719-03-5	Chrysene-d12	1680000	21.645			
1520-96-3	Perylene-d12	1600000	25.027			

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_P\Data\BP022725\
Data File : BP024119.D
Acq On : 27 Feb 2025 13:41
Operator : RC/JU
Sample : PB166894TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Quant Time: Feb 27 14:06:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

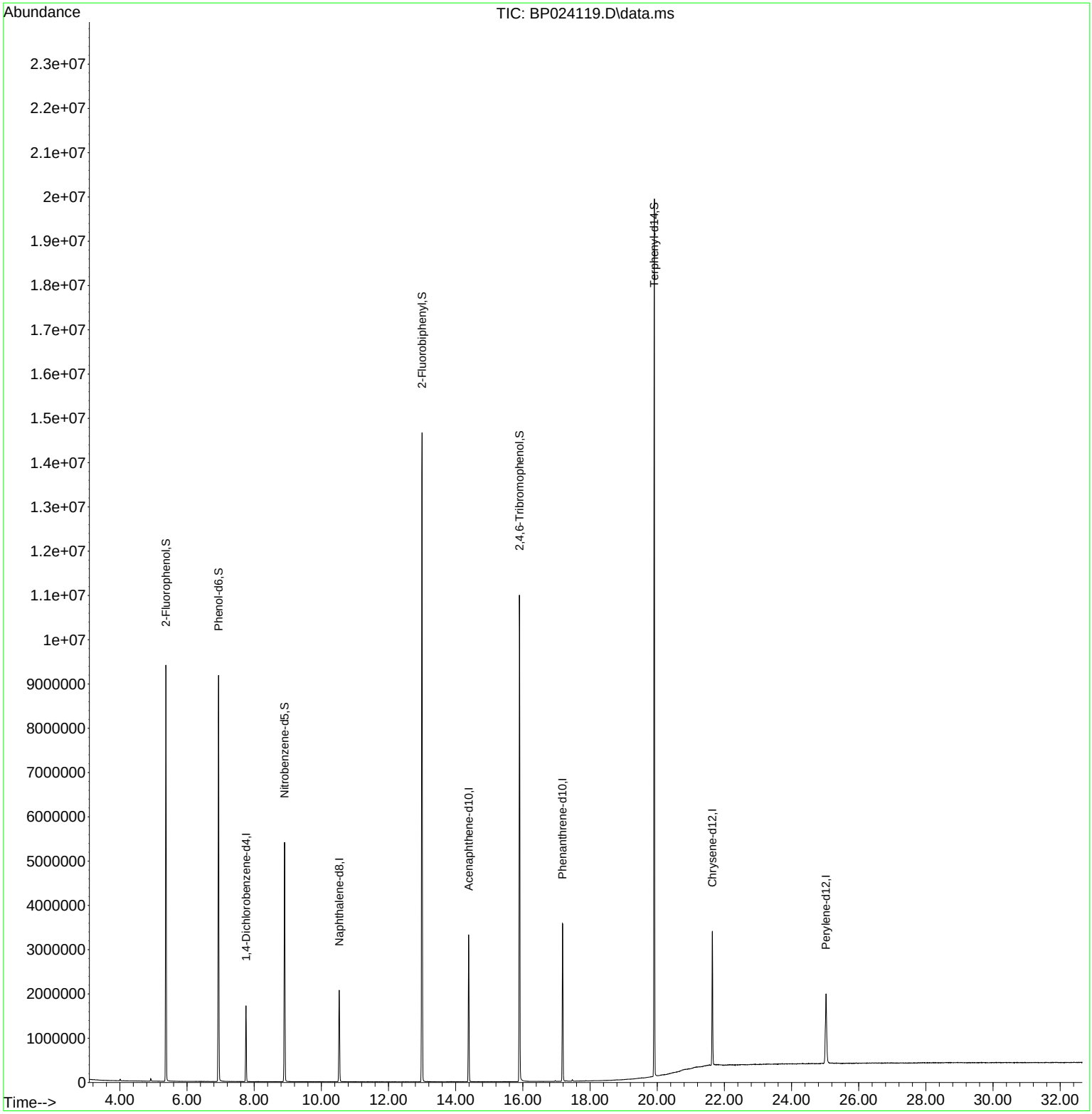
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.757	152	450576	20.000	ng	-0.04
21) Naphthalene-d8	10.534	136	1837373	20.000	ng	-0.03
39) Acenaphthene-d10	14.386	164	1172275	20.000	ng	-0.04
64) Phenanthrene-d10	17.180	188	2221248	20.000	ng	-0.04
76) Chrysene-d12	21.645	240	1680654	20.000	ng	-0.03
86) Perylene-d12	25.027	264	1598178	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	4330315	149.960	ng	-0.03
7) Phenol-d6	6.940	99	5564890	149.941	ng	-0.04
23) Nitrobenzene-d5	8.904	82	3223998	97.892	ng	-0.04
42) 2,4,6-Tribromophenol	15.898	330	2159531	150.395	ng	-0.04
45) 2-Fluorobiphenyl	12.998	172	7674592	91.524	ng	-0.04
79) Terphenyl-d14	19.916	244	9890167	116.444	ng	-0.03
Target Compounds						Qvalue

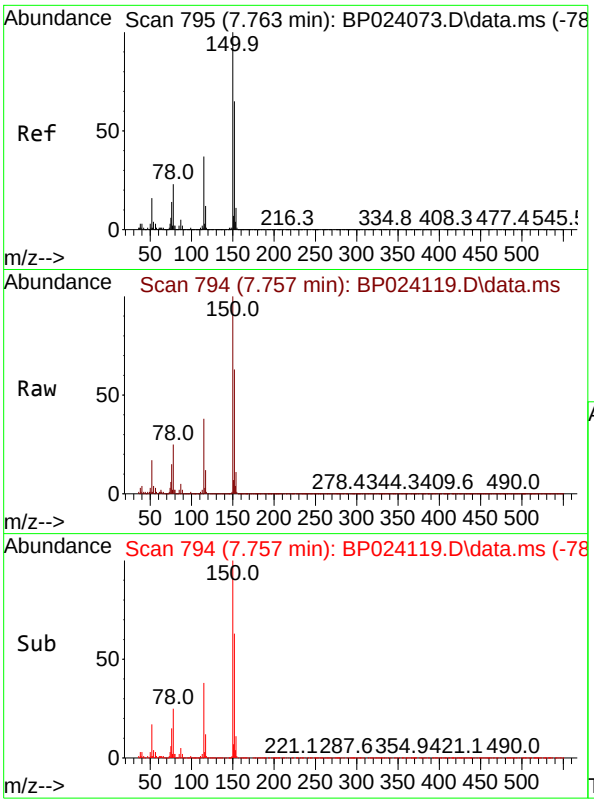
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024119.D
Acq On : 27 Feb 2025 13:41
Operator : RC/JU
Sample : PB166894TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Quant Time: Feb 27 14:06:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration



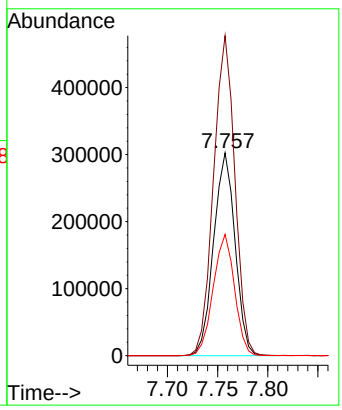


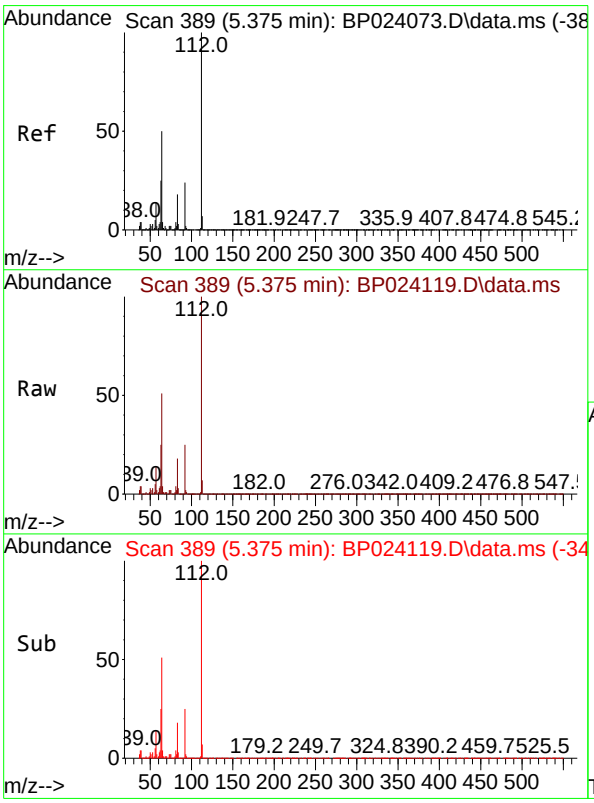
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Tgt Ion:152 Resp: 450576

Ion	Ratio	Lower	Upper
152	100		
150	157.8	122.4	183.6
115	59.8	45.0	67.6

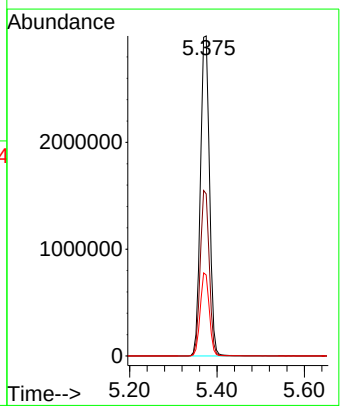


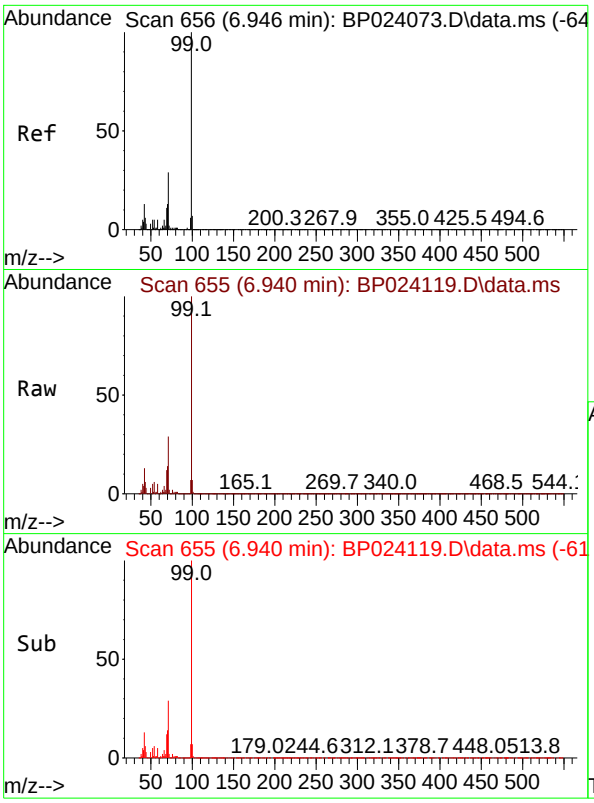


#5
2-Fluorophenol
Concen: 149.960 ng
RT: 5.375 min Scan# 389
Delta R.T. -0.030 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Tgt Ion:112 Resp: 4330315

Ion	Ratio	Lower	Upper
112	100		
64	50.6	39.6	59.4
63	25.3	20.3	30.5



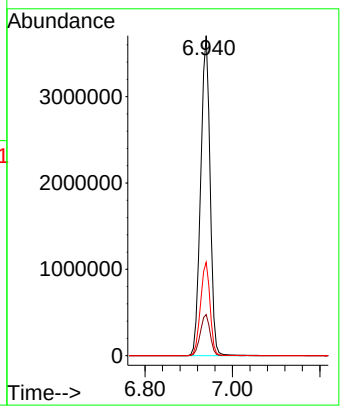


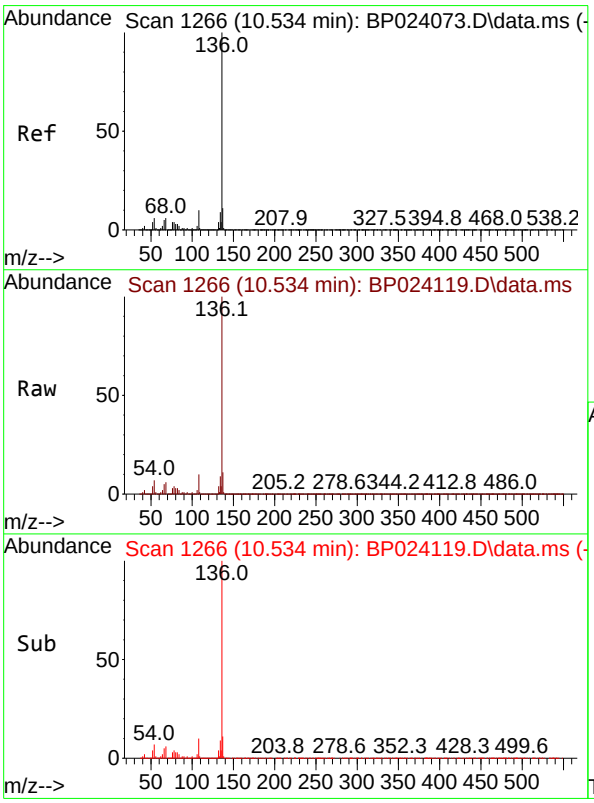
#7
Phenol-d6
Concen: 149.941 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Tgt Ion: 99 Resp: 5564890

Ion	Ratio	Lower	Upper
99	100		
42	12.9	10.3	15.5
71	29.2	22.9	34.3

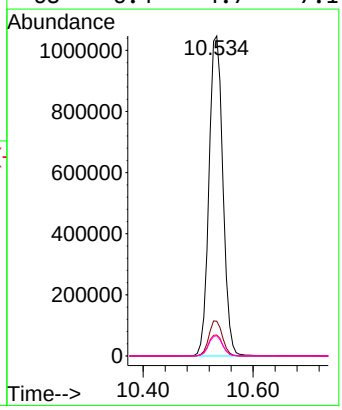


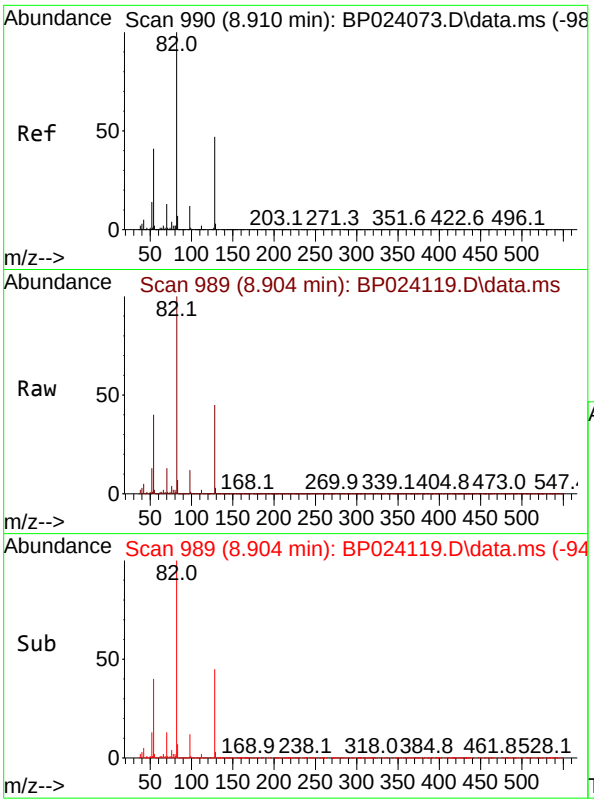


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1266
Delta R.T. -0.030 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Tgt Ion:136 Resp: 1837373

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	6.6	4.9	7.3
68	6.4	4.7	7.1



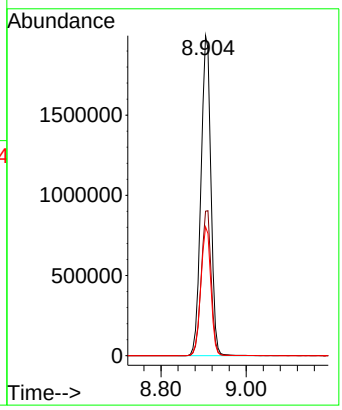


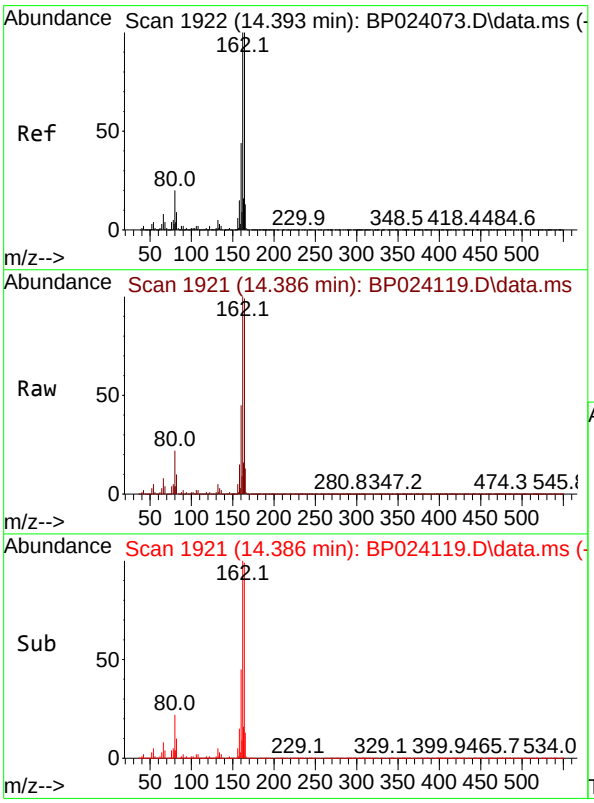
#23
Nitrobenzene-d5
Concen: 97.892 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Tgt Ion: 82 Resp: 3223998

Ion	Ratio	Lower	Upper
82	100		
128	45.1	37.4	56.2
54	40.2	32.4	48.6

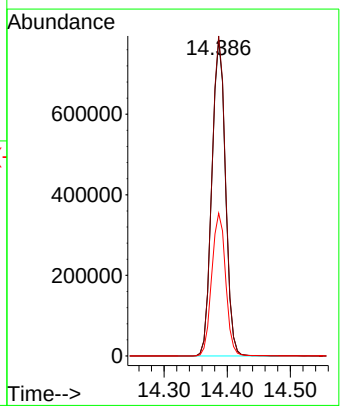


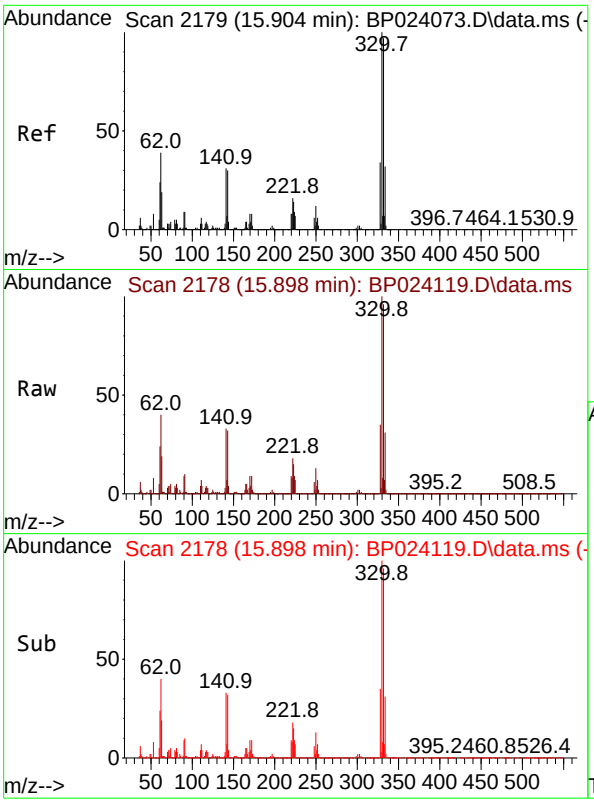


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.386 min Scan# 1921
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Tgt Ion:164 Resp: 1172275

Ion	Ratio	Lower	Upper
164	100		
162	101.4	80.1	120.1
160	45.2	35.6	53.4



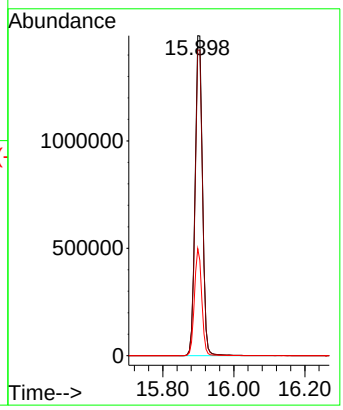


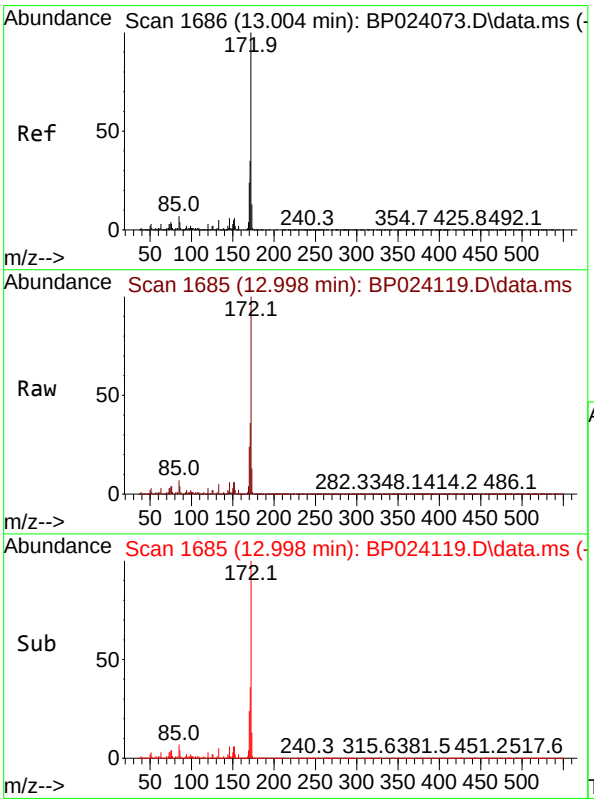
#42
2,4,6-Tribromophenol
Concen: 150.395 ng
RT: 15.898 min Scan# 2
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Tgt Ion:330 Resp: 2159531

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.0	115.4
141	33.2	28.3	42.5

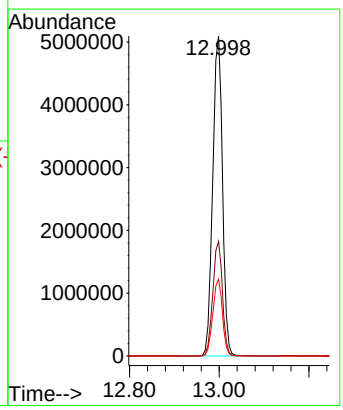


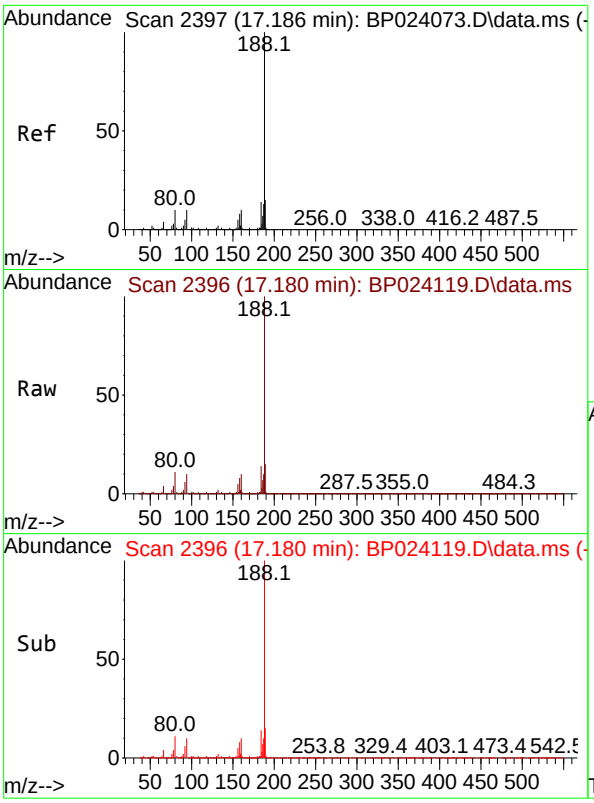


#45
2-Fluorobiphenyl
Concen: 91.524 ng
RT: 12.998 min Scan# 1685
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Tgt Ion:172 Resp: 7674592

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.2	42.2
170	24.0	19.0	28.6



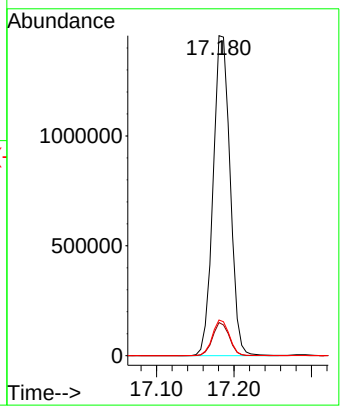


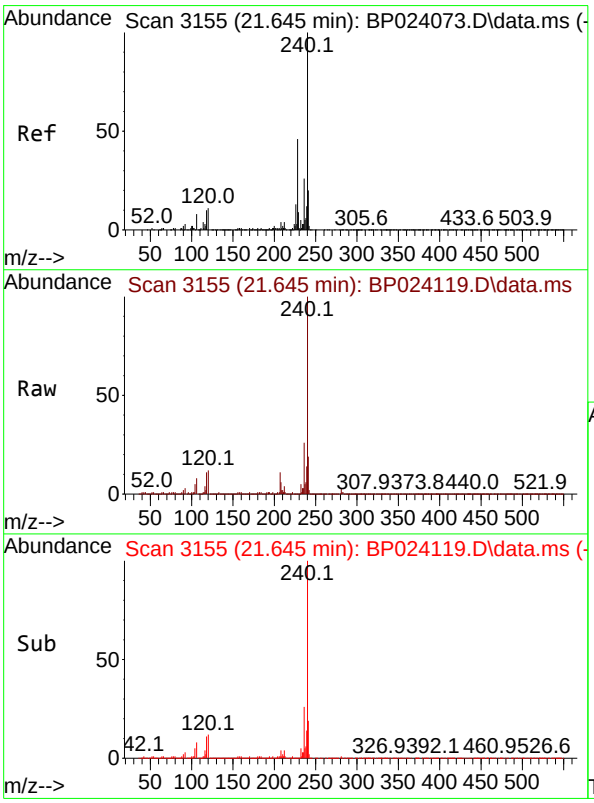
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.180 min Scan# 2
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Tgt Ion:188 Resp: 2221248

Ion	Ratio	Lower	Upper
188	100		
94	10.3	7.6	11.4
80	11.1	8.2	12.2

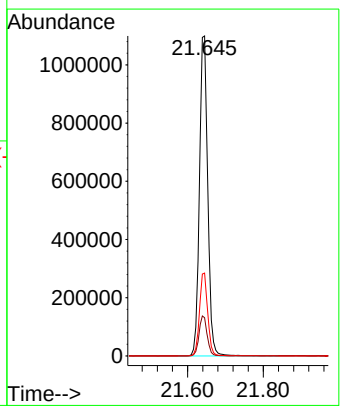


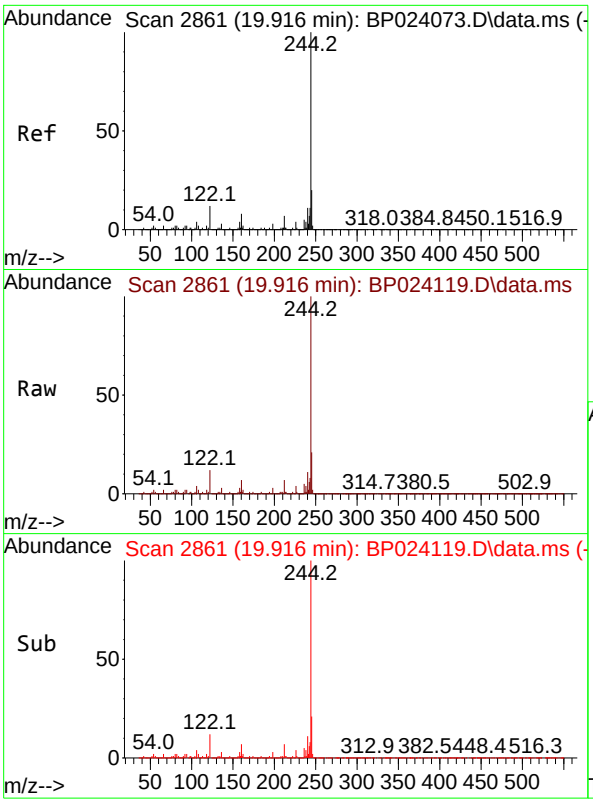


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.645 min Scan# 3155
Delta R.T. -0.030 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Tgt Ion:240 Resp: 1680654

Ion	Ratio	Lower	Upper
240	100		
120	12.0	8.9	13.3
236	25.9	20.7	31.1



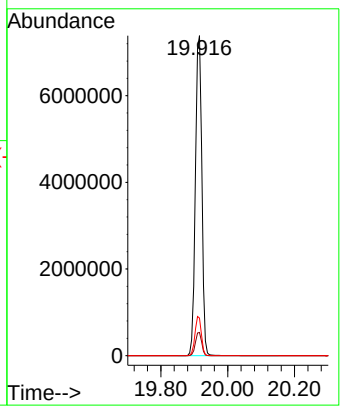


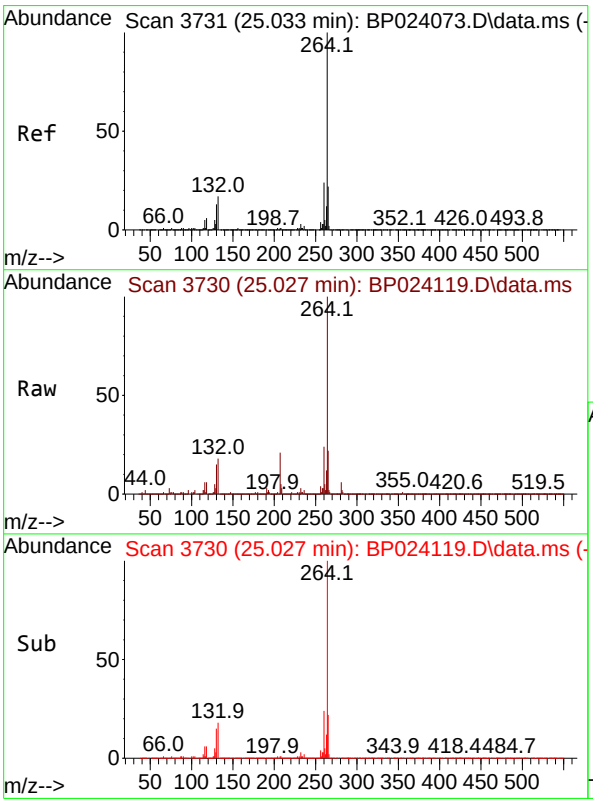
#79
Terphenyl-d14
Concen: 116.444 ng
RT: 19.916 min Scan# 2
Delta R.T. -0.030 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Instrument :
BNA_P
ClientSampleId :
PB166894TB

Tgt Ion:244 Resp: 9890167

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.9	8.9
122	11.7	9.4	14.2

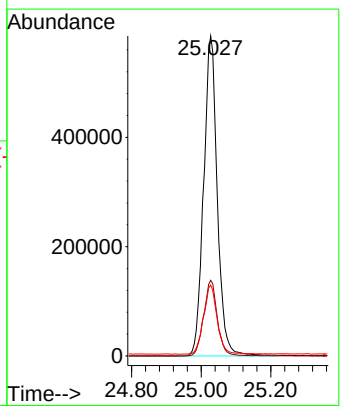




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.027 min Scan# 3730
Delta R.T. -0.036 min
Lab File: BP024119.D
Acq: 27 Feb 2025 13:41

Tgt Ion:264 Resp: 1598178

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	22.1	17.8	26.8



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024120.D	1	02/26/25 11:20	02/27/25 14:27	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	9.50		0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024120.D	1	02/26/25 11:20	02/27/25 14:27	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	4.00	J	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	UQ	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	2.10	J	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024120.D	1	02/26/25 11:20	02/27/25 14:27	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	67.2		10 - 139	45%	SPK: 150
13127-88-3	Phenol-d6	39.1		10 - 134	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	108		49 - 133	108%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		52 - 132	102%	SPK: 100
118-79-6	2,4,6-Tribromophenol	178		44 - 137	119%	SPK: 150
1718-51-0	Terphenyl-d14	108		48 - 125	108%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	228000	7.758			
1146-65-2	Naphthalene-d8	878000	10.534			
15067-26-2	Acenaphthene-d10	522000	14.393			
1517-22-2	Phenanthrene-d10	1050000	17.198			
1719-03-5	Chrysene-d12	1210000	21.663			
1520-96-3	Perylene-d12	1420000	25.045			

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_P\Data\BP022725\
Data File : BP024120.D
Acq On : 27 Feb 2025 14:27
Operator : RC/JU
Sample : Q1421-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Quant Time: Feb 27 14:51:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

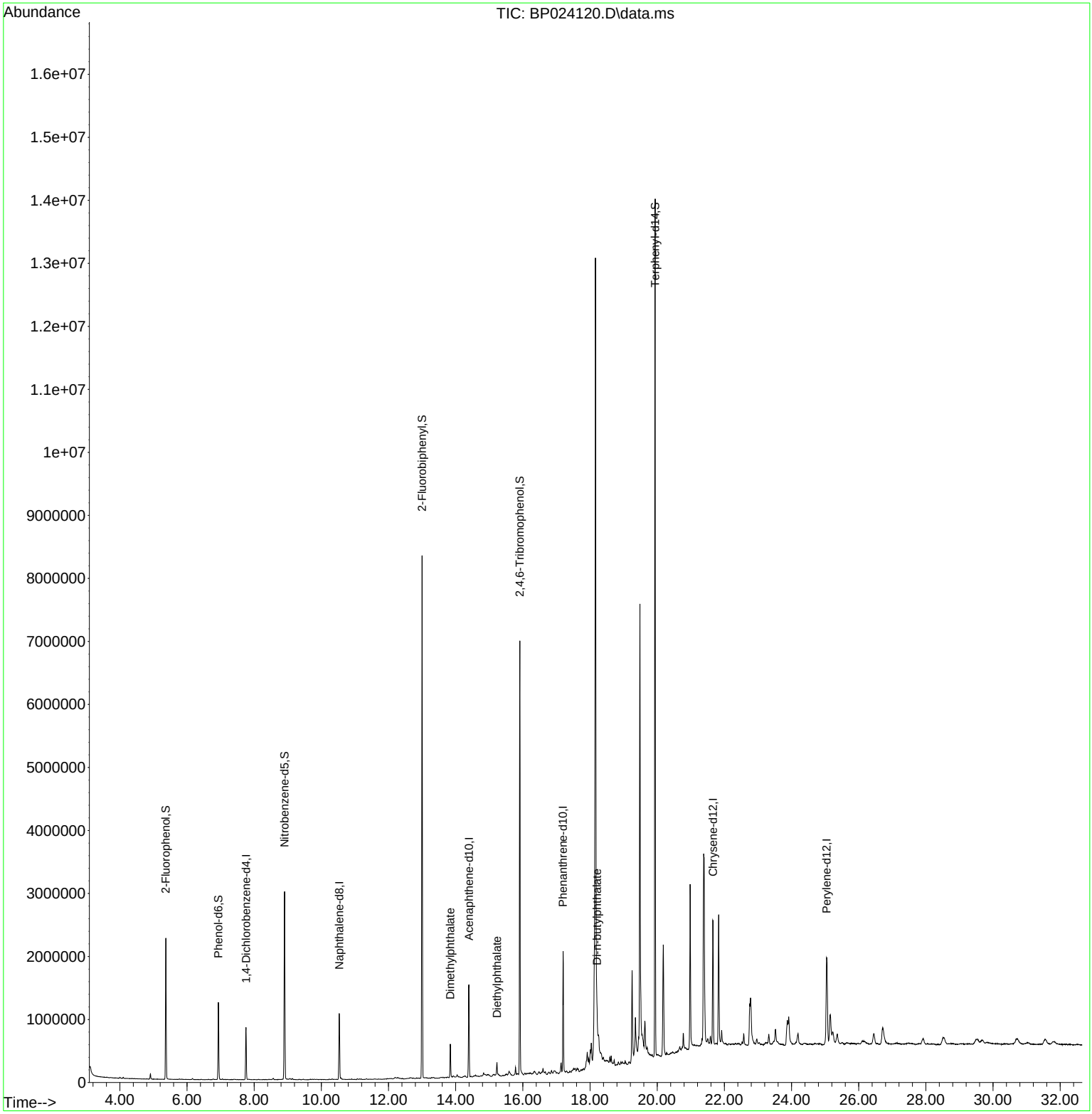
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.758	152	228273	20.000	ng	0.00
21) Naphthalene-d8	10.534	136	878256	20.000	ng	0.00
39) Acenaphthene-d10	14.393	164	521945	20.000	ng	0.00
64) Phenanthrene-d10	17.198	188	1053304	20.000	ng	0.01
76) Chrysene-d12	21.663	240	1205739	20.000	ng	0.02
86) Perylene-d12	25.045	264	1422369	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.370	112	982493	67.158	ng	0.00
7) Phenol-d6	6.934	99	734598	39.068	ng	-0.01
23) Nitrobenzene-d5	8.905	82	1706966	108.430	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	1139631	178.256	ng	0.00
45) 2-Fluorobiphenyl	12.999	172	3797628	101.717	ng	0.00
79) Terphenyl-d14	19.939	244	6560754	107.669	ng	0.02
Target Compounds						Qvalue
50) Dimethylphthalate	13.840	163	350377	9.517	ng	99
60) Diethylphthalate	15.228	149	147300	4.030	ng	99
74) Di-n-butylphthalate	18.210	149	130919	2.069	ng	100

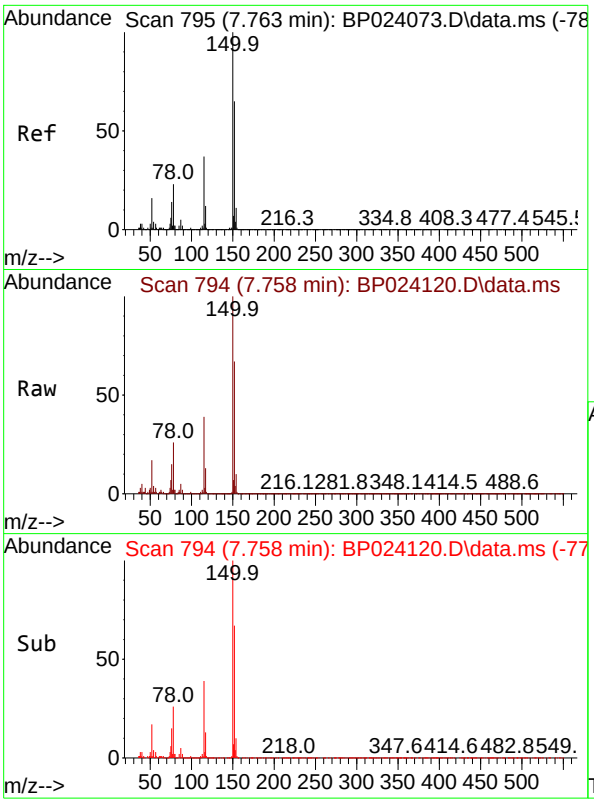
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024120.D
Acq On : 27 Feb 2025 14:27
Operator : RC/JU
Sample : Q1421-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Quant Time: Feb 27 14:51:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration



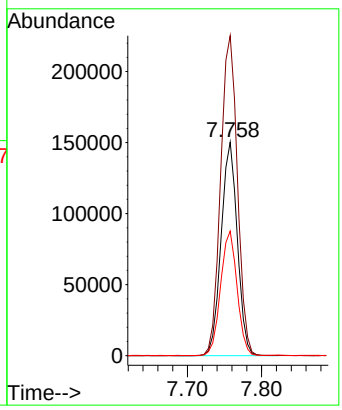


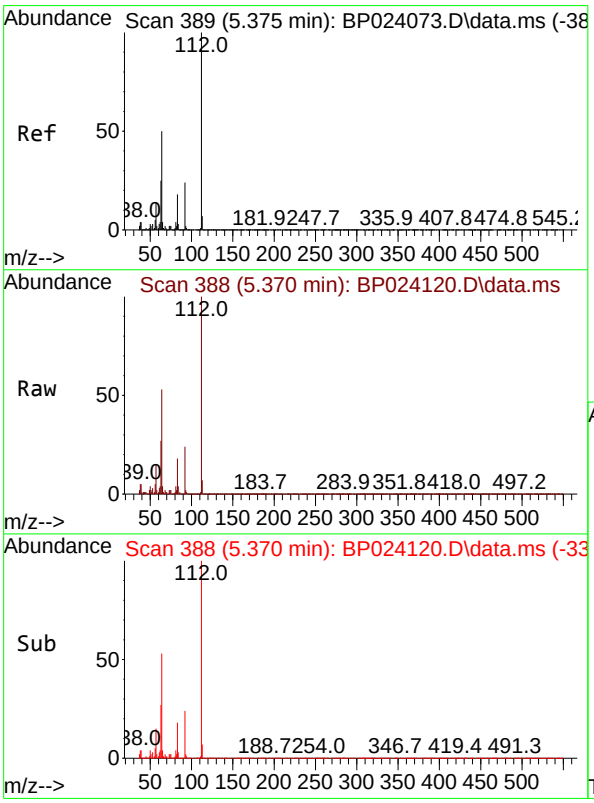
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:152 Resp: 228273

Ion	Ratio	Lower	Upper
152	100		
150	149.9	122.4	183.6
115	58.3	45.0	67.6

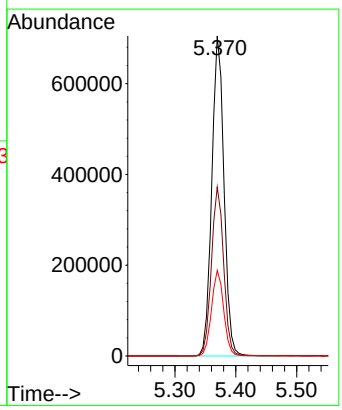


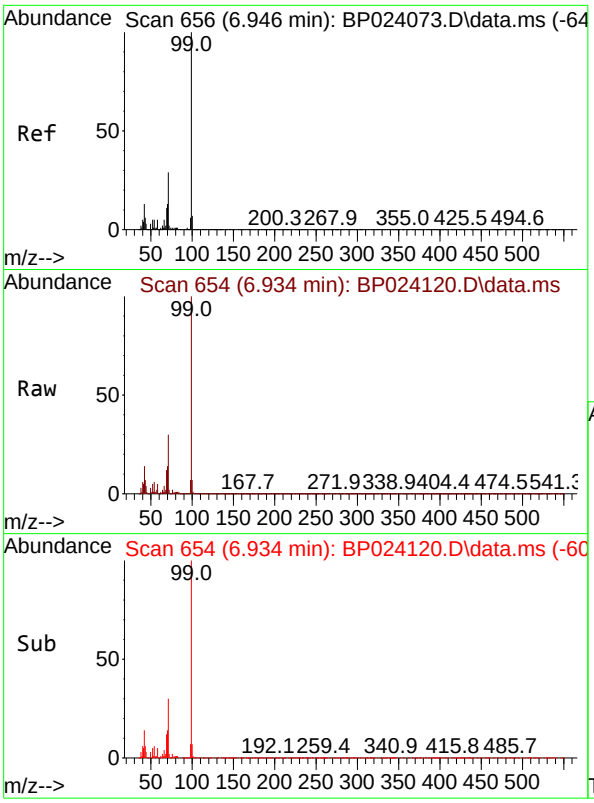


#5
2-Fluorophenol
Concen: 67.158 ng
RT: 5.370 min Scan# 388
Delta R.T. -0.006 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:112 Resp: 982493

Ion	Ratio	Lower	Upper
112	100		
64	52.8	39.6	59.4
63	26.7	20.3	30.5



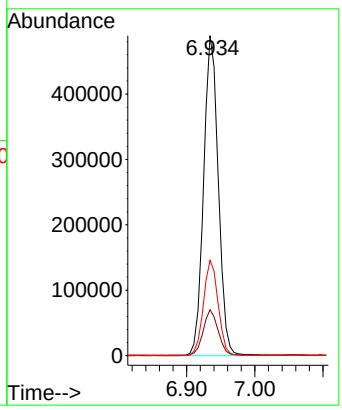


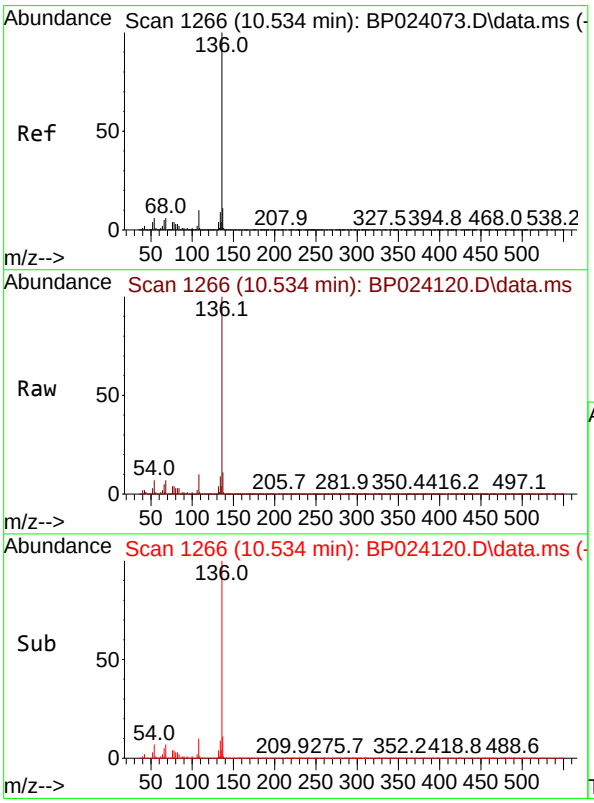
#7
Phenol-d6
Concen: 39.068 ng
RT: 6.934 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion: 99 Resp: 734598

Ion	Ratio	Lower	Upper
99	100		
42	14.4	10.3	15.5
71	29.8	22.9	34.3

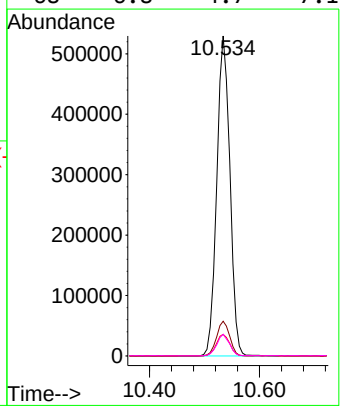


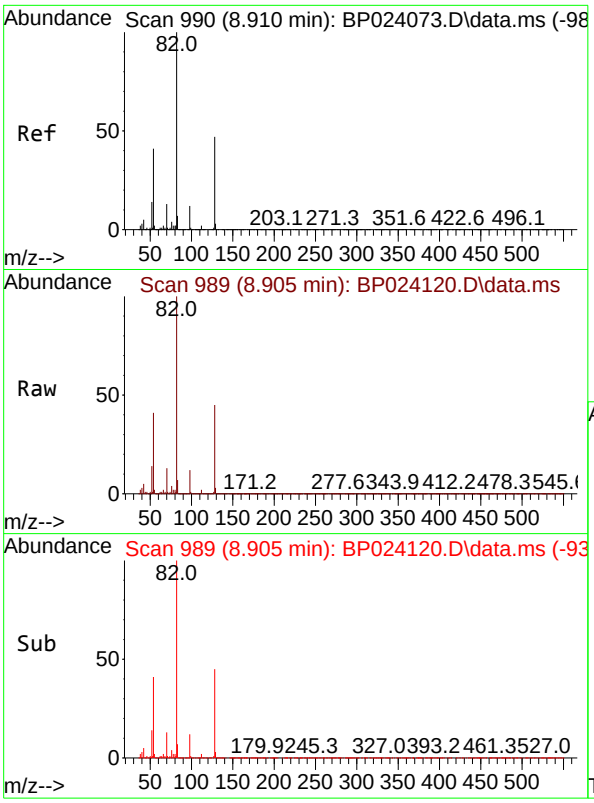


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1266
Delta R.T. 0.000 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:136 Resp: 878256

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	6.7	4.9	7.3
68	6.8	4.7	7.1



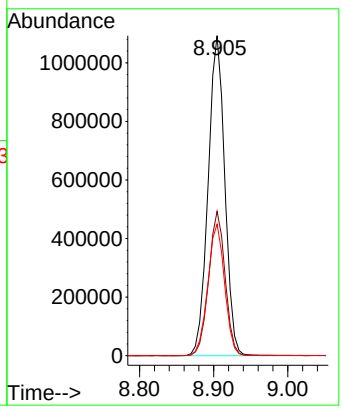


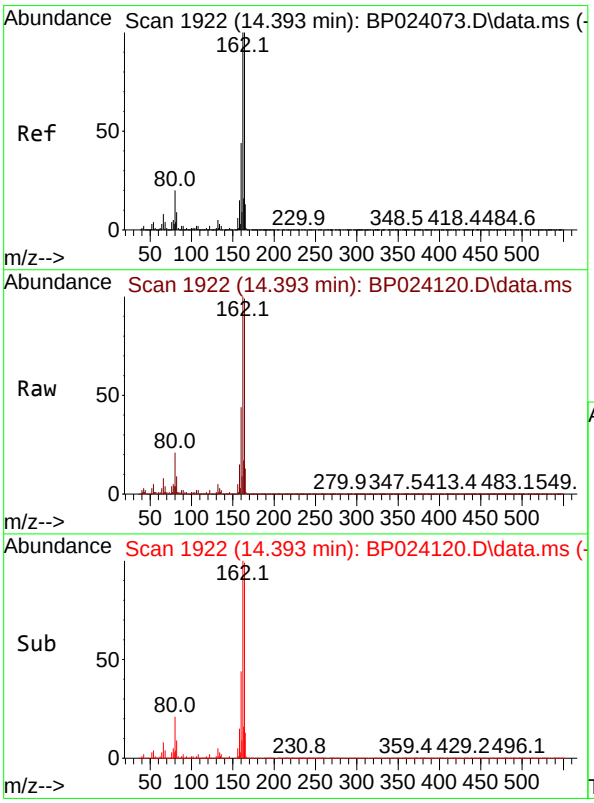
#23
Nitrobenzene-d5
Concen: 108.430 ng
RT: 8.905 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion: 82 Resp: 1706966

Ion	Ratio	Lower	Upper
82	100		
128	45.1	37.4	56.2
54	41.1	32.4	48.6

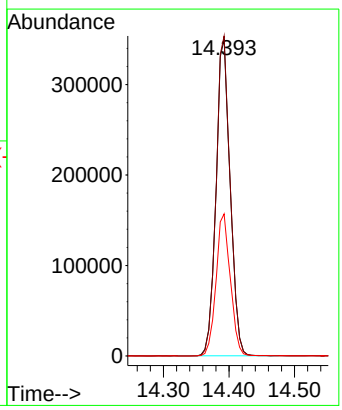


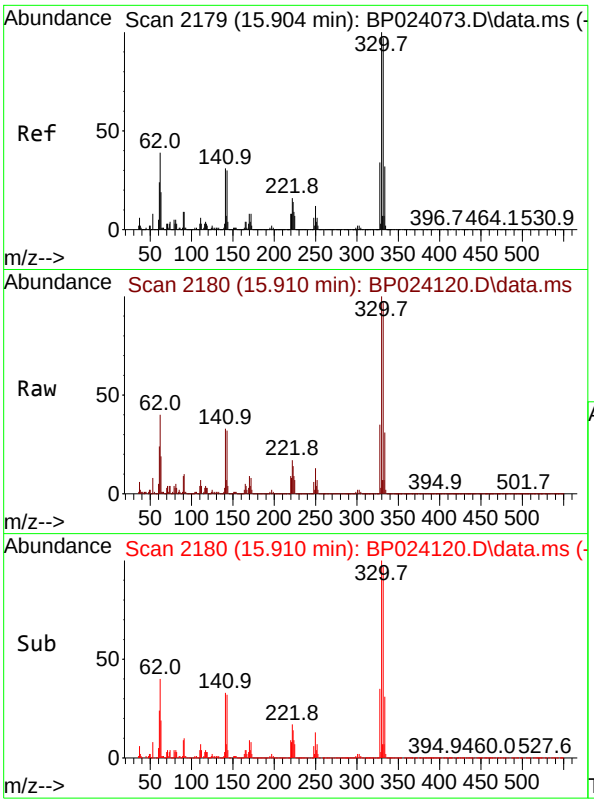


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.393 min Scan# 1922
Delta R.T. 0.000 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:164 Resp: 521945

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.1	120.1
160	44.9	35.6	53.4



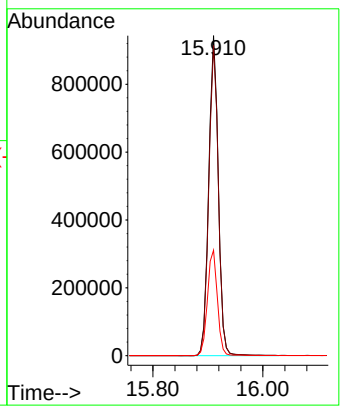


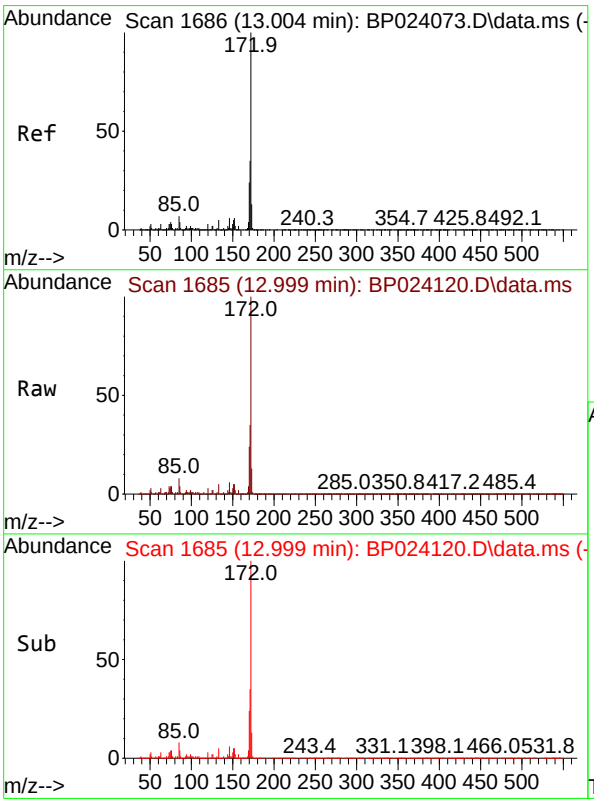
#42
2,4,6-Tribromophenol
Concen: 178.256 ng
RT: 15.910 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:330 Resp: 1139631

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.0	115.4
141	34.0	28.3	42.5

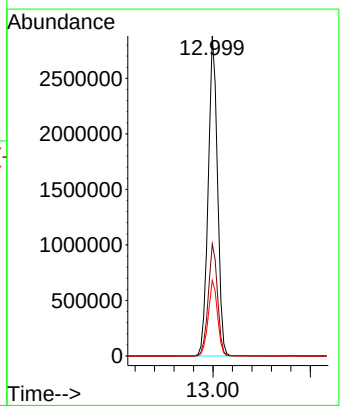


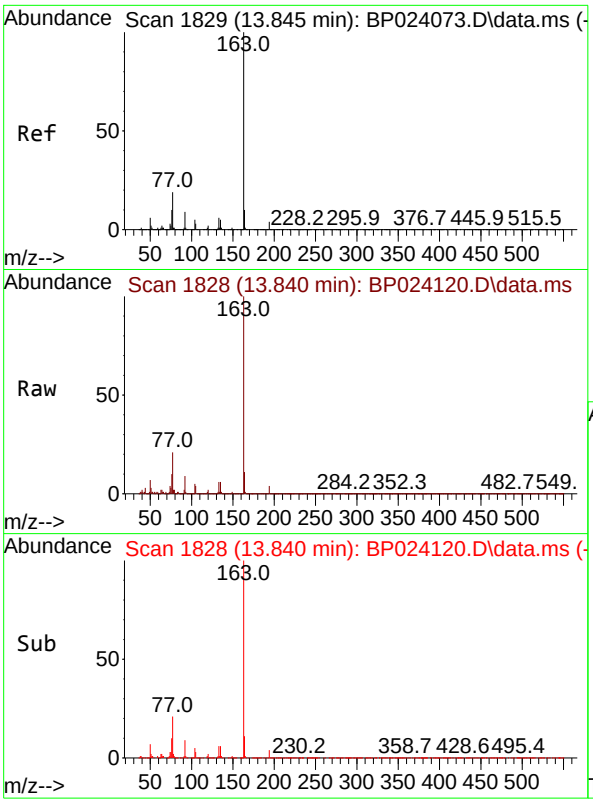


#45
2-Fluorobiphenyl
Concen: 101.717 ng
RT: 12.999 min Scan# 1685
Delta R.T. -0.006 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:172 Resp: 3797628

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.2	42.2
170	23.6	19.0	28.6



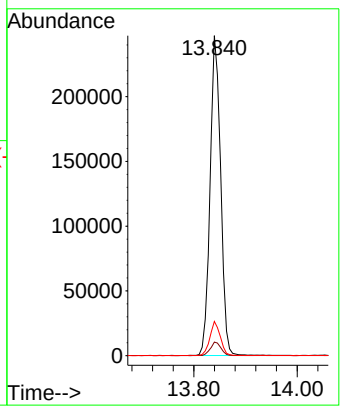


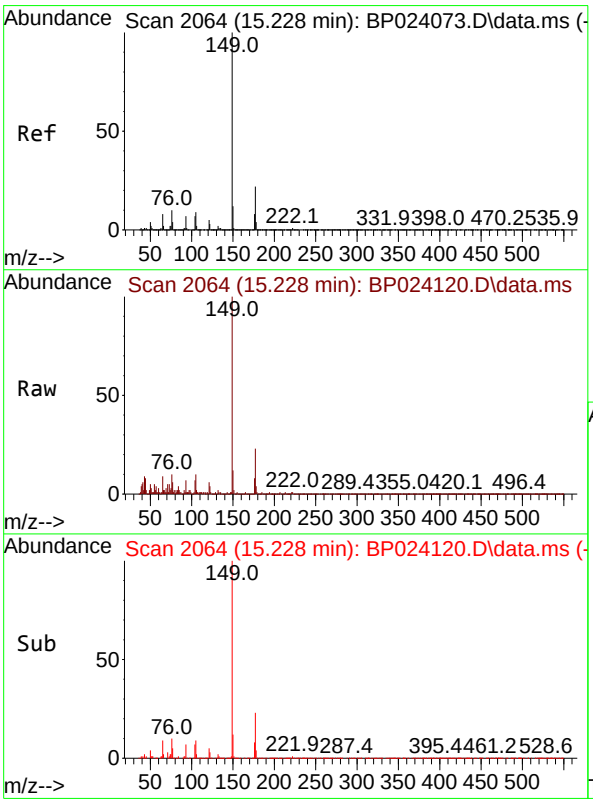
#50
Dimethylphthalate
Concen: 9.517 ng
RT: 13.840 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:163 Resp: 350377

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.7	8.1	12.1

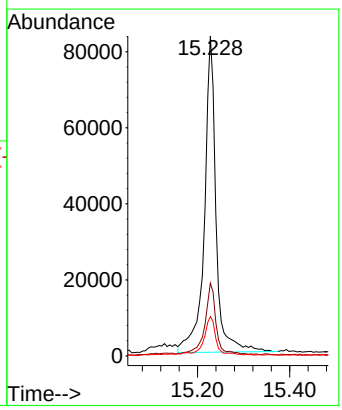


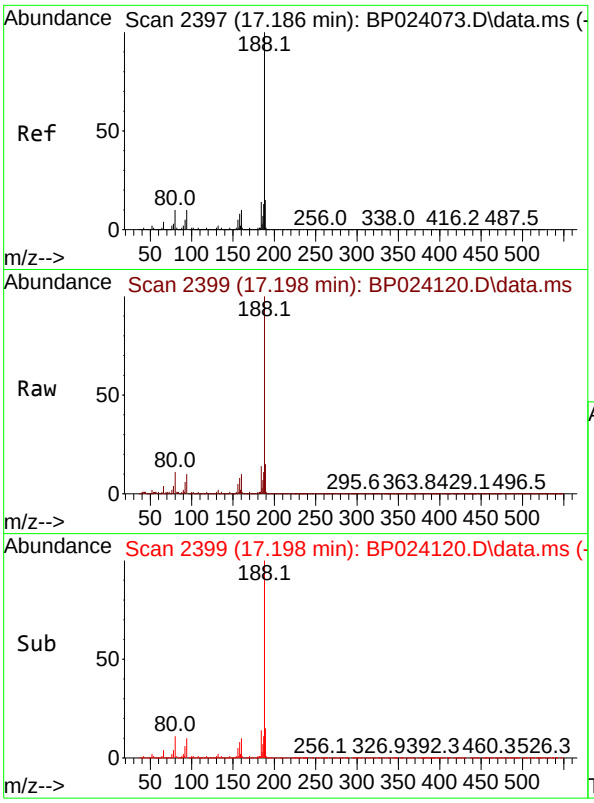


#60
Diethylphthalate
Concen: 4.030 ng
RT: 15.228 min Scan# 2064
Delta R.T. 0.000 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:149 Resp: 147300

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.9	26.9
150	12.3	9.8	14.6



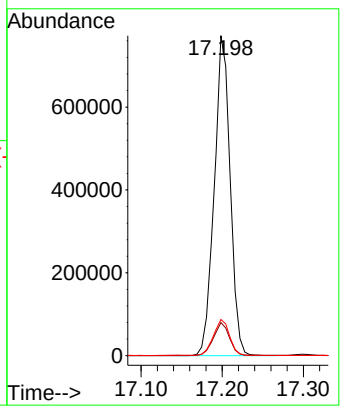


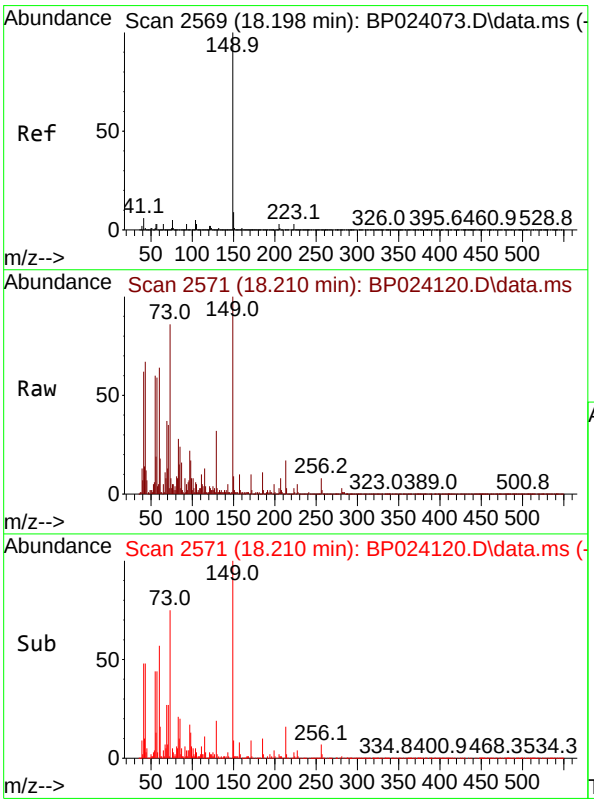
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.198 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:188 Resp: 1053304

Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.6	11.4
80	11.3	8.2	12.2

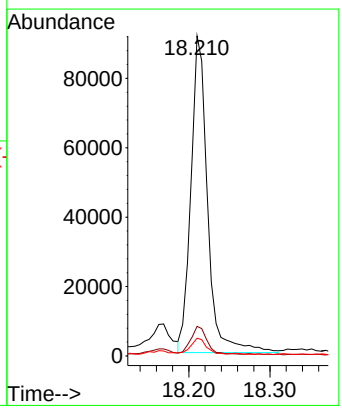


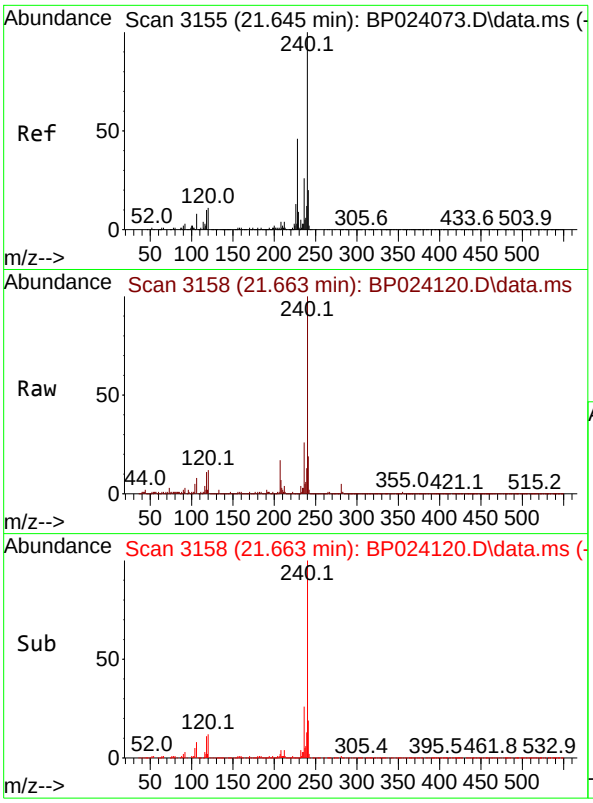


#74
Di-n-butylphthalate
Concen: 2.069 ng
RT: 18.210 min Scan# 2571
Delta R.T. 0.012 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:149 Resp: 130919

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.5	4.2	6.2



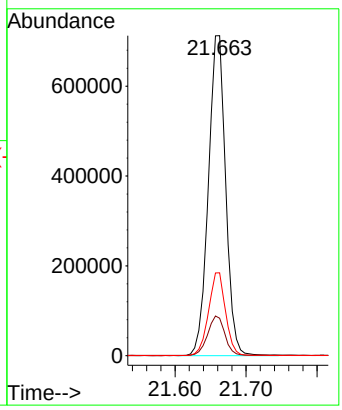


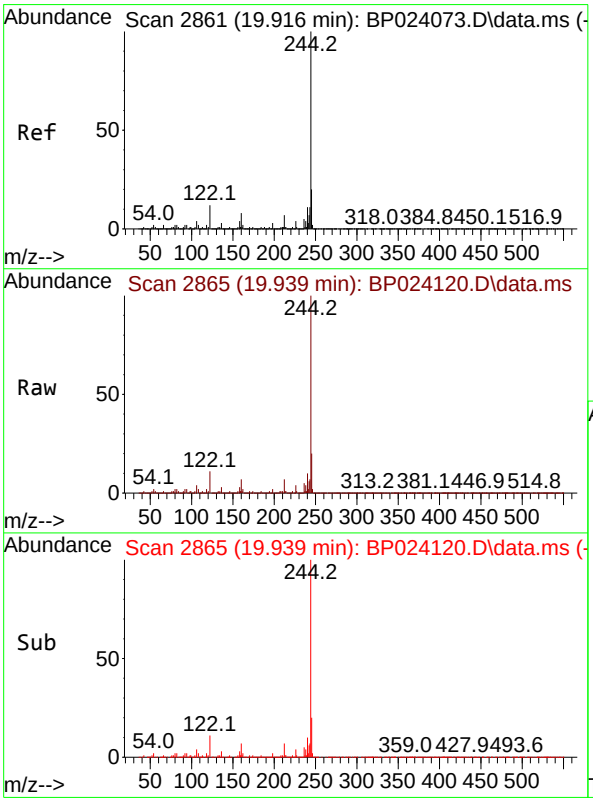
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.663 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:240 Resp: 1205739

Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.9	13.3
236	25.9	20.7	31.1

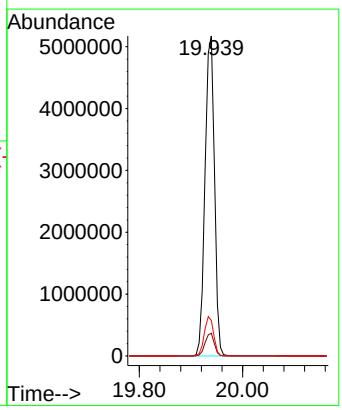


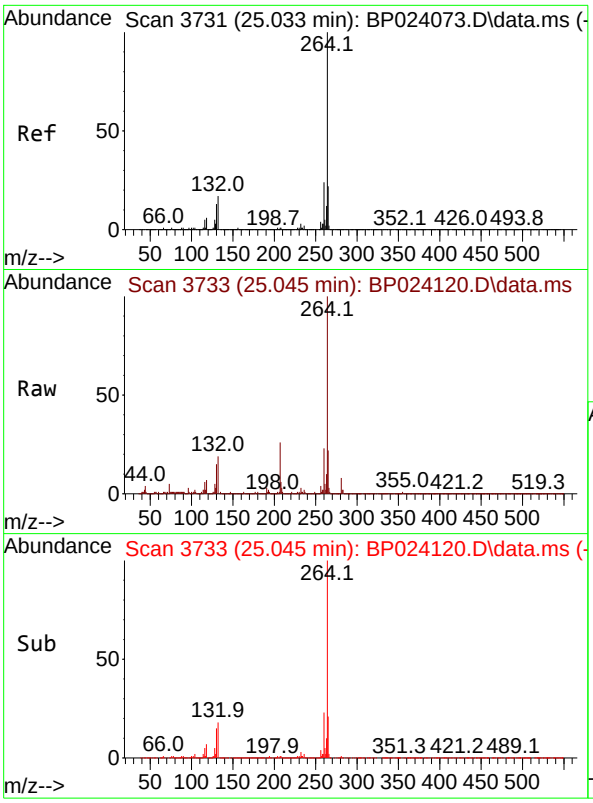


#79
Terphenyl-d14
Concen: 107.669 ng
RT: 19.939 min Scan# 2865
Delta R.T. 0.024 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Tgt Ion:244 Resp: 6560754

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.9	8.9
122	11.1	9.4	14.2



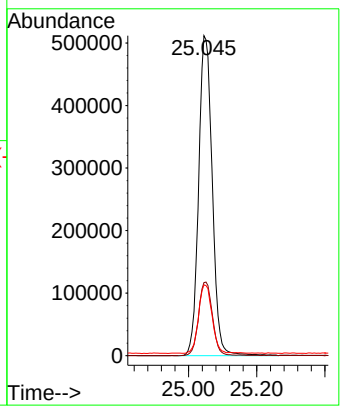


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.045 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024120.D
Acq: 27 Feb 2025 14:27

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01

Tgt Ion:264 Resp: 1422369

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.0	28.6
265	22.2	17.8	26.8



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141806.D	1	02/26/25 11:20	02/28/25 13:22	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	13.7		0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141806.D	1	02/26/25 11:20	02/28/25 13:22	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	UQ	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-02	SDG No.:	Q1421
Lab Sample ID:	Q1421-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141806.D	1	02/26/25 11:20	02/28/25 13:22	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	58.4		10 - 139	39%	SPK: 150
13127-88-3	Phenol-d6	34.9		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		49 - 133	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.8		52 - 132	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	168		44 - 137	112%	SPK: 150
1718-51-0	Terphenyl-d14	77.7		48 - 125	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	244000	6.887			
1146-65-2	Naphthalene-d8	972000	8.169			
15067-26-2	Acenaphthene-d10	564000	9.922			
1517-22-2	Phenanthrene-d10	1040000	11.41			
1719-03-5	Chrysene-d12	1000000	14.045			
1520-96-3	Perylene-d12	851000	15.521			

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\BF022825\
Data File : BF141806.D
Acq On : 28 Feb 2025 13:22
Operator : RC/JU
Sample : Q1421-08
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Time: Feb 28 13:43:32 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

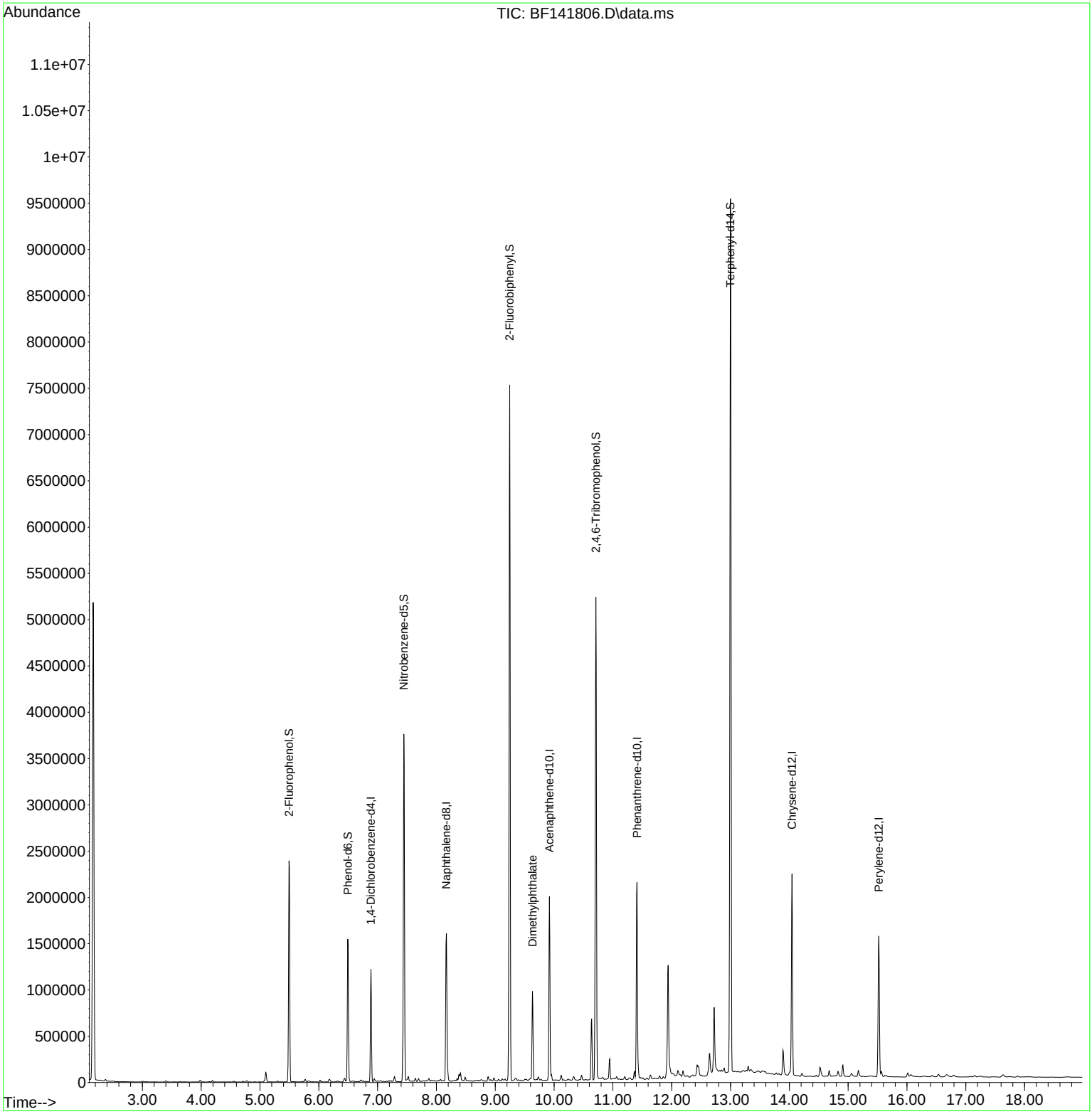
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	243666	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	971925	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	563590	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1041256	20.000	ng	0.00
76) Chrysene-d12	14.045	240	1003213	20.000	ng	0.00
86) Perylene-d12	15.521	264	850977	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	891086	58.402	ng	0.00
7) Phenol-d6	6.493	99	694004	34.946	ng	-0.02
23) Nitrobenzene-d5	7.445	82	1708110	112.336	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	890734	168.346	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	3191505	90.800	ng	0.00
79) Terphenyl-d14	12.998	244	4814860	77.651	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	9.633	163	515496	13.658	ng	99

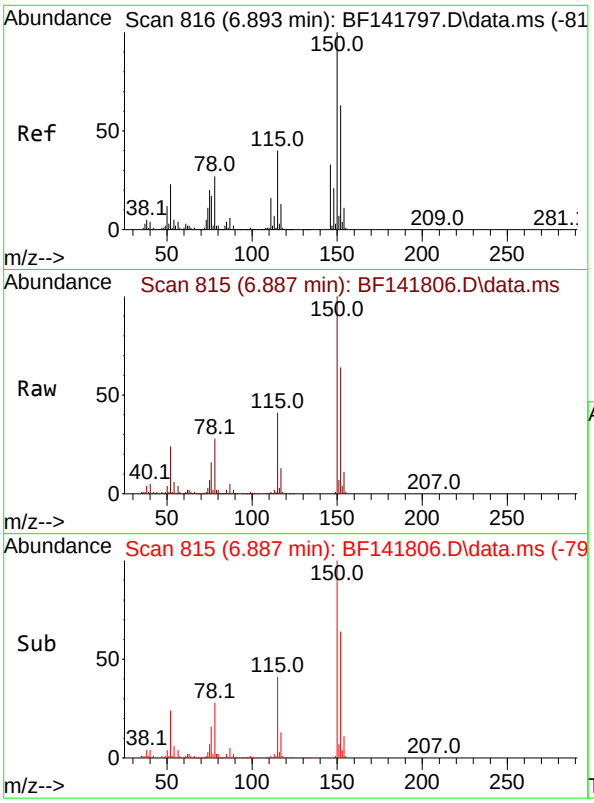
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141806.D
Acq On : 28 Feb 2025 13:22
Operator : RC/JU
Sample : Q1421-08
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Quant Time: Feb 28 13:43:32 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



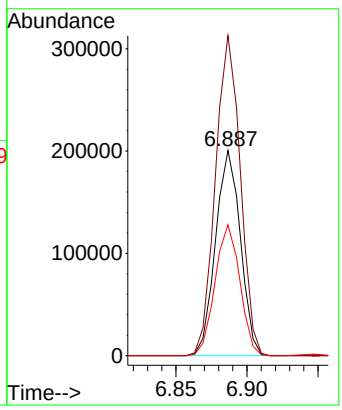


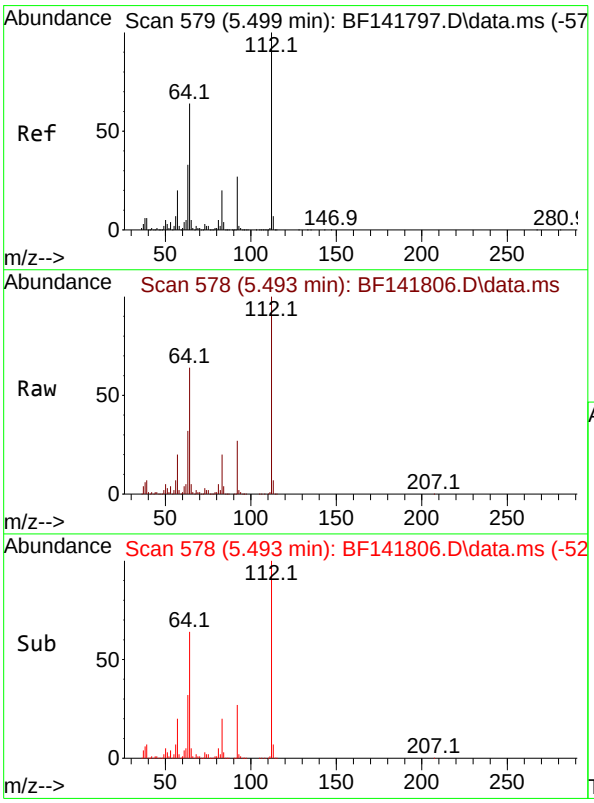
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:152 Resp: 243666

Ion	Ratio	Lower	Upper
152	100		
150	156.0	127.5	191.3
115	63.8	51.4	77.2

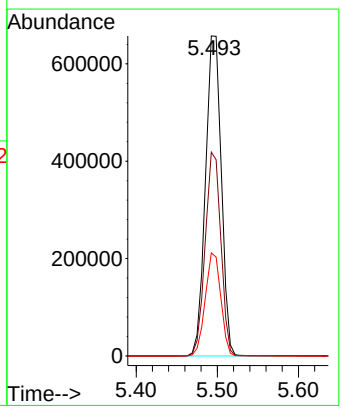


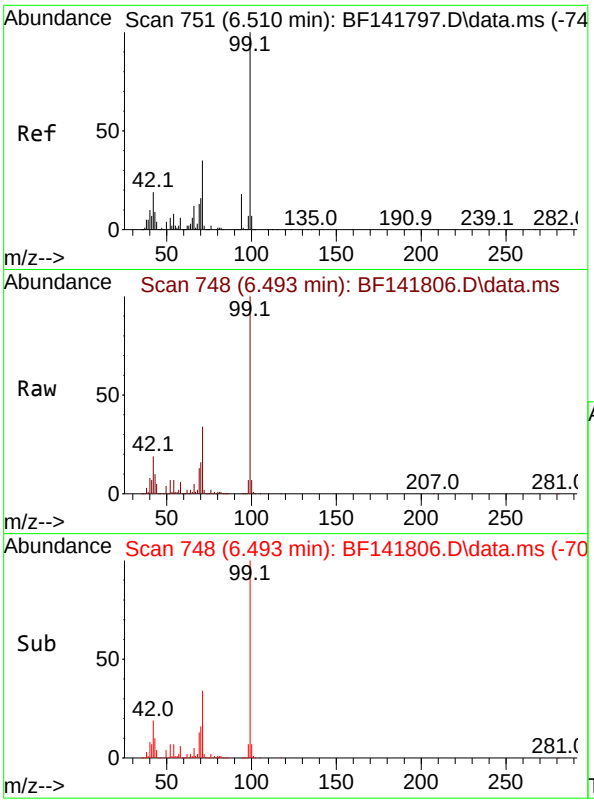


#5
2-Fluorophenol
Concen: 58.402 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Tgt Ion:112 Resp: 891086

Ion	Ratio	Lower	Upper
112	100		
64	63.7	51.3	76.9
63	32.2	26.2	39.4



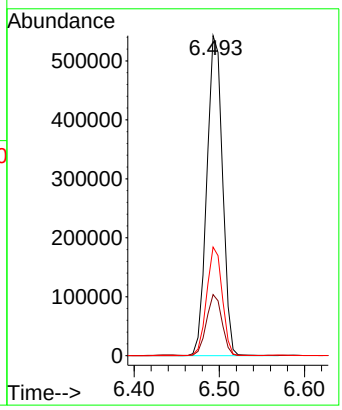


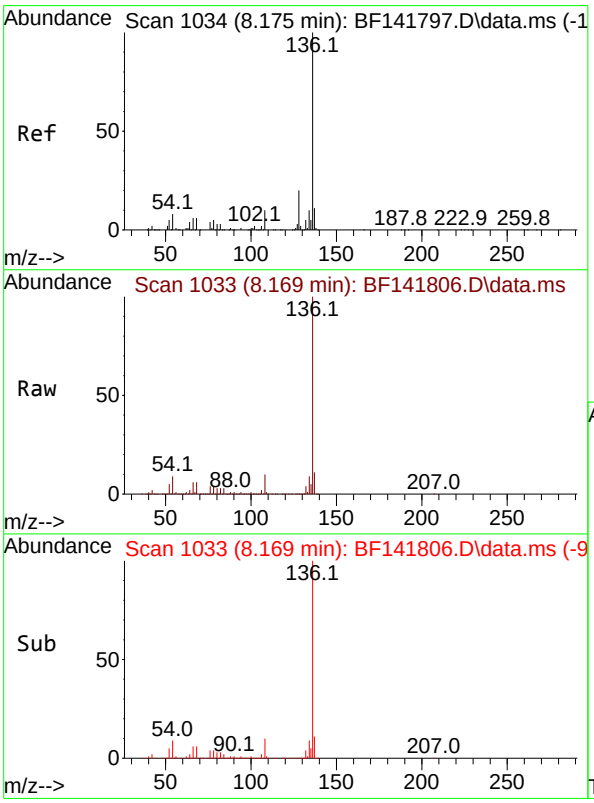
#7
Phenol-d6
Concen: 34.946 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion: 99 Resp: 694004

Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.2	22.8
71	33.9	28.2	42.2

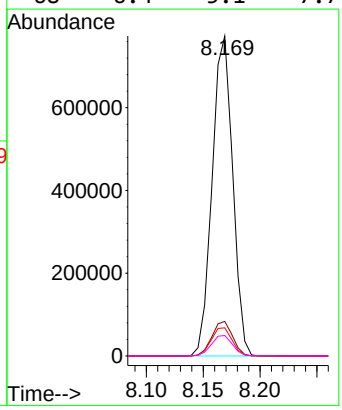


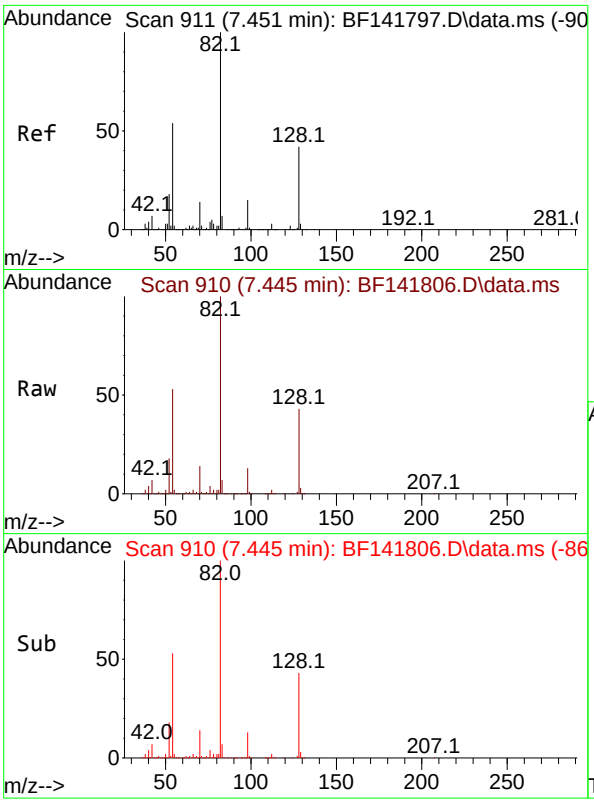


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Tgt Ion:136 Resp: 971925

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.9	13.3
54	8.8	6.9	10.3
68	6.4	5.1	7.7



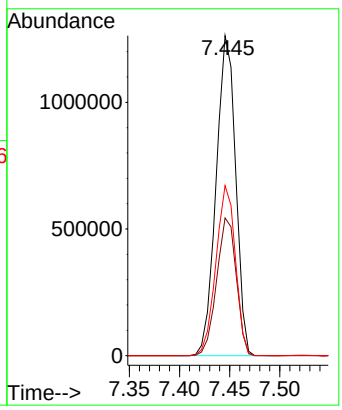


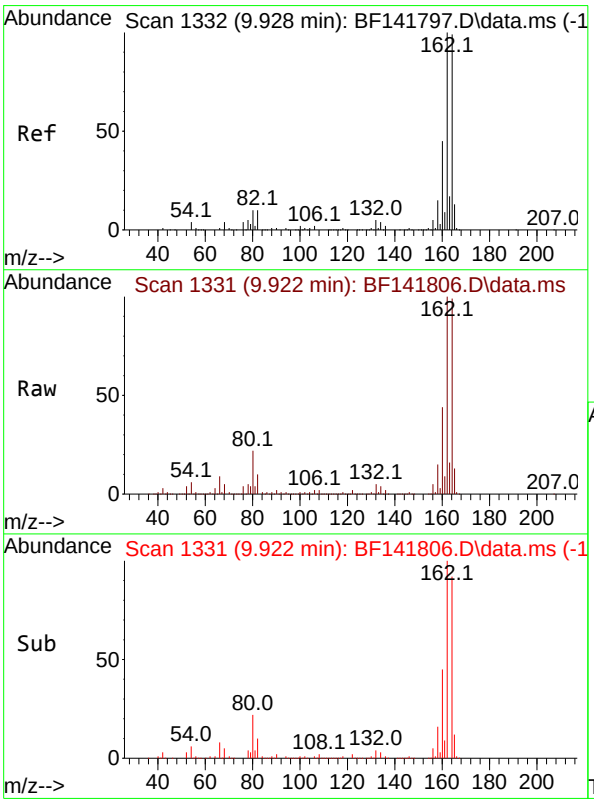
#23
Nitrobenzene-d5
Concen: 112.336 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion: 82 Resp: 1708110

Ion	Ratio	Lower	Upper
82	100		
128	43.0	33.5	50.3
54	53.1	42.7	64.1

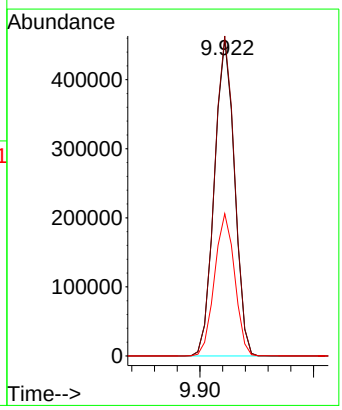


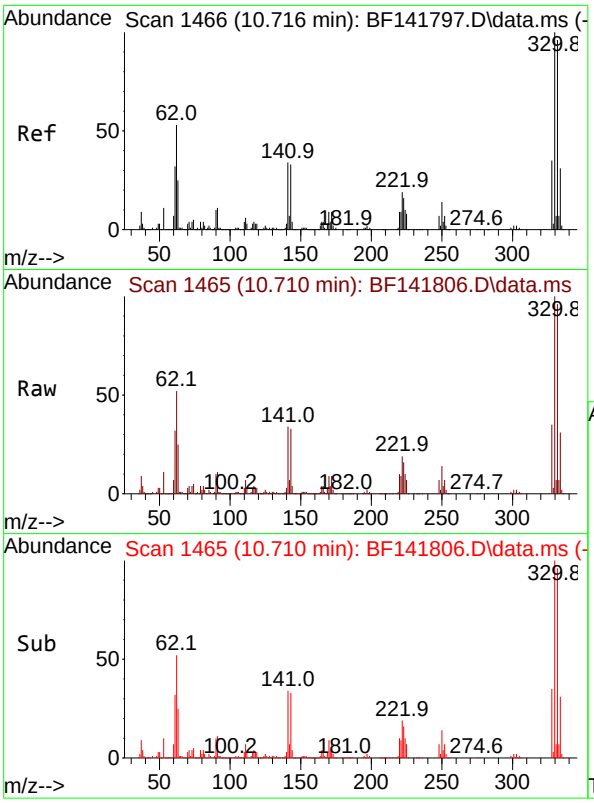


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Tgt Ion:164 Resp: 563590

Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.6	120.8
160	45.0	36.3	54.5



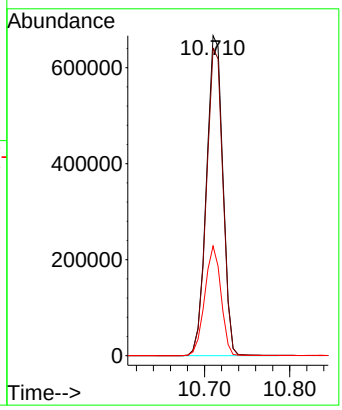


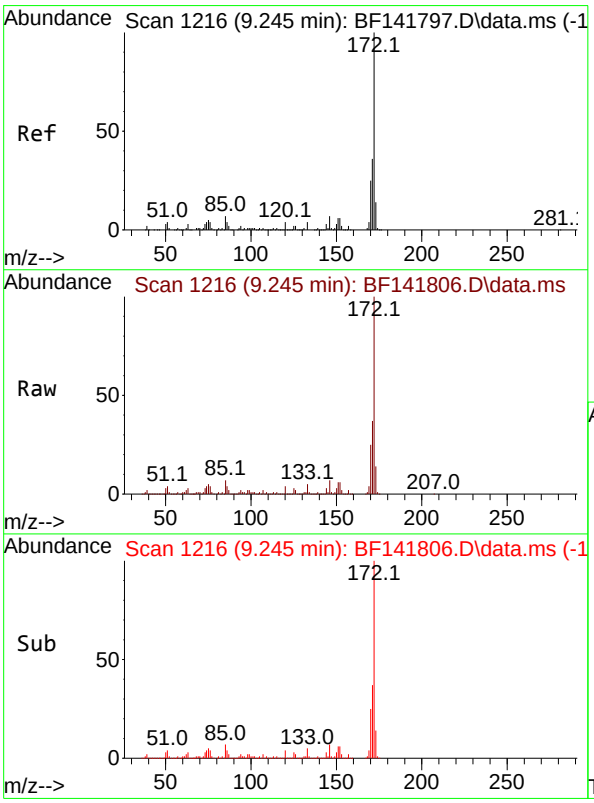
#42
2,4,6-Tribromophenol
Concen: 168.346 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:330 Resp: 890734

Ion	Ratio	Lower	Upper
330	100		
332	96.0	76.6	115.0
141	33.8	29.0	43.4

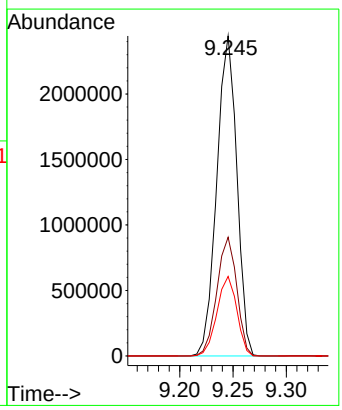


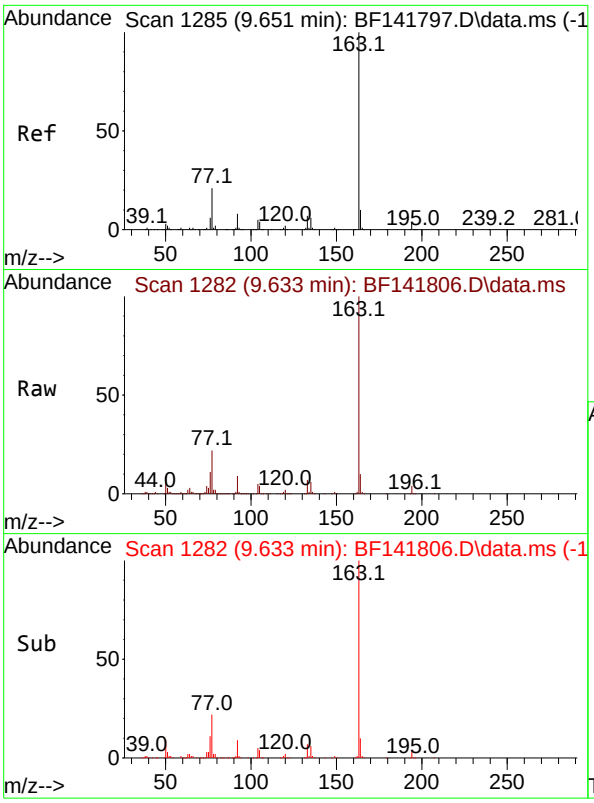


#45
2-Fluorobiphenyl
Concen: 90.800 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.000 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Tgt Ion:172 Resp: 3191505

Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.2	43.8
170	24.8	19.7	29.5



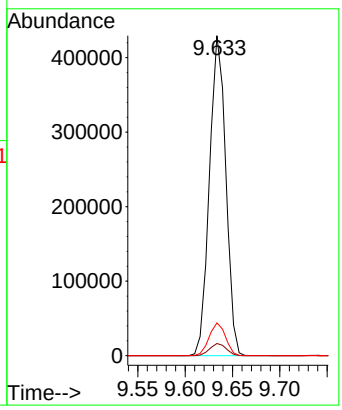


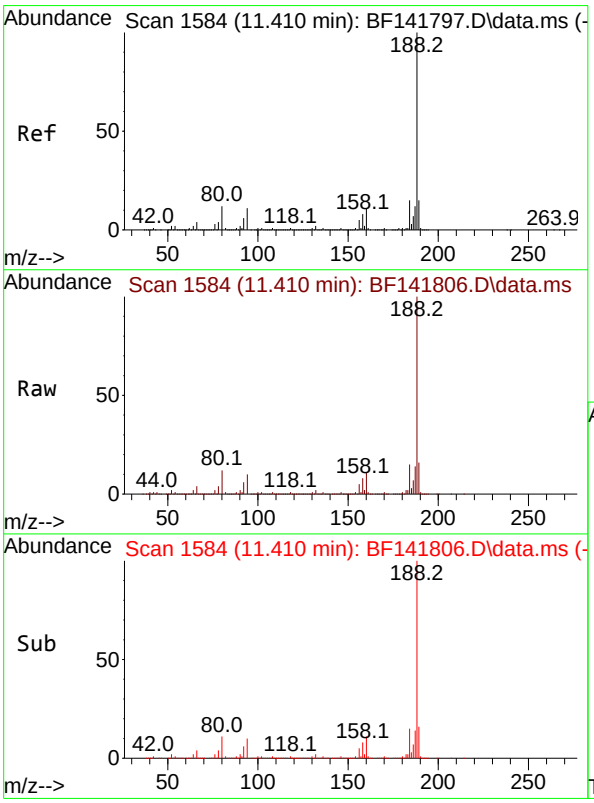
#50
Dimethylphthalate
Concen: 13.658 ng
RT: 9.633 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:163 Resp: 515496

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.3	8.4	12.6

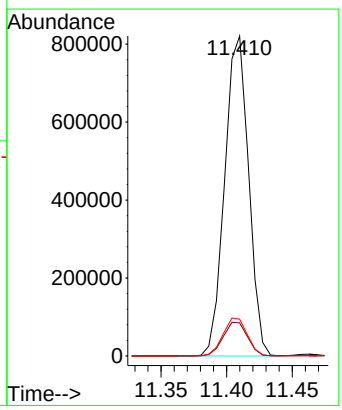


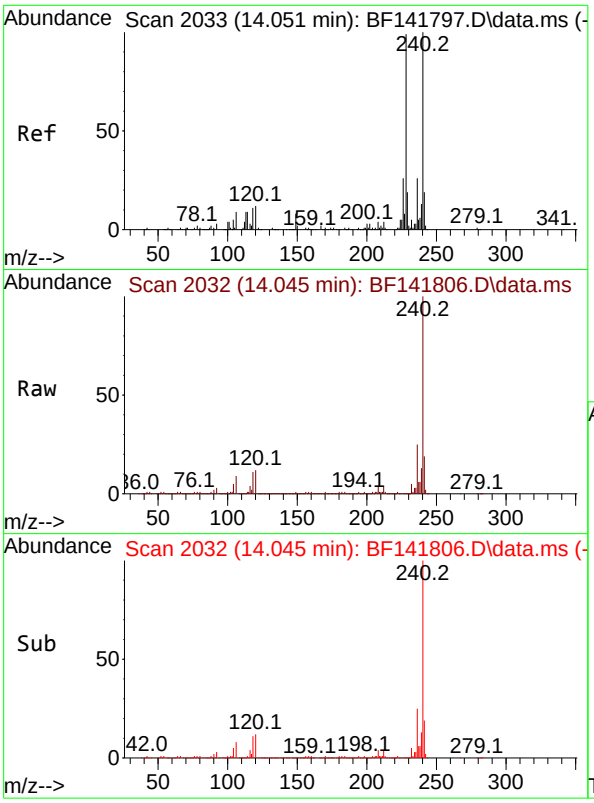


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Tgt Ion:188 Resp: 1041256

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.9	13.3
80	11.5	9.7	14.5



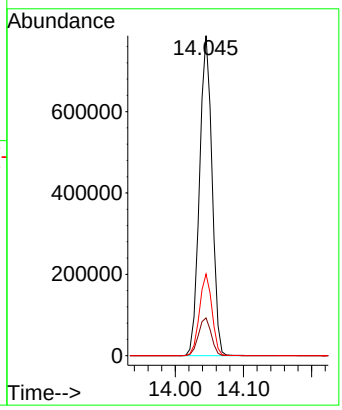


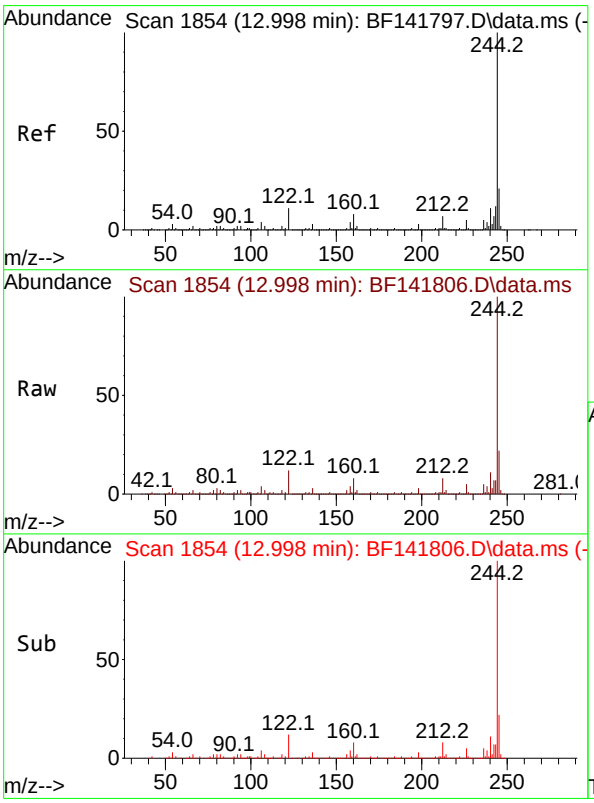
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:240 Resp: 1003213

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.7	14.5
236	25.5	21.0	31.4

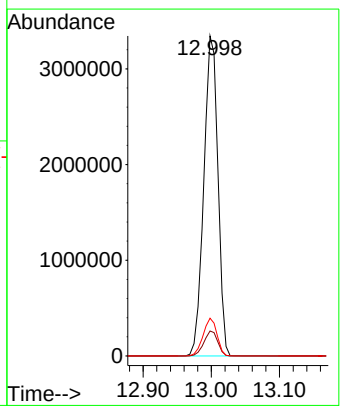


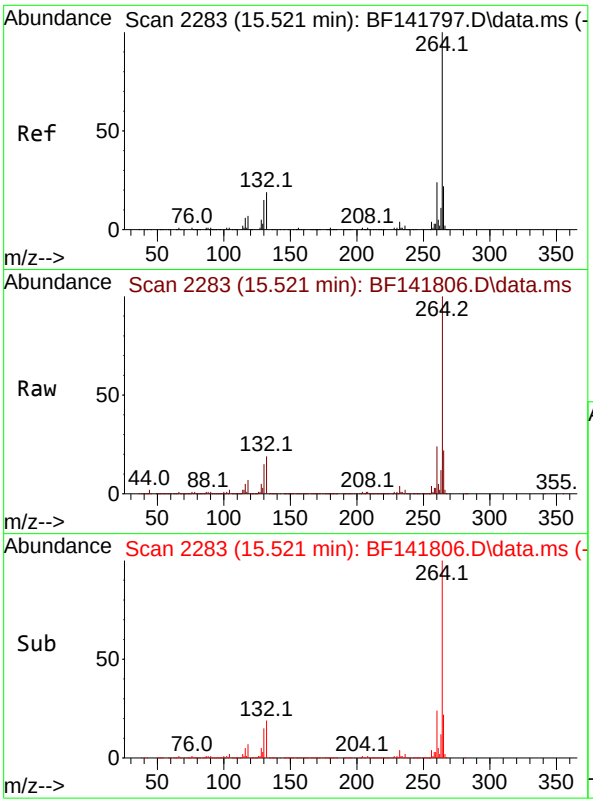


#79
Terphenyl-d14
Concen: 77.651 ng
RT: 12.998 min Scan# 1854
Delta R.T. -0.000 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Tgt Ion:244 Resp: 4814860

Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.0	9.0
122	11.8	9.0	13.6



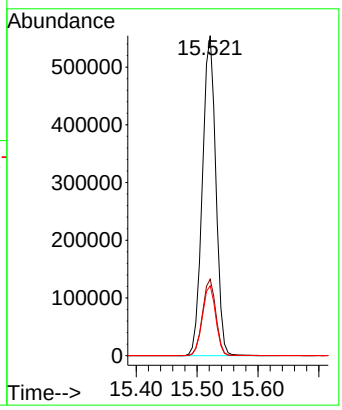


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141806.D
Acq: 28 Feb 2025 13:22

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF01-02

Tgt Ion:264 Resp: 850977

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	21.9	17.4	26.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141807.D	1	02/26/25 11:20	02/28/25 13:52	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	12.1		0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141807.D	1	02/26/25 11:20	02/28/25 13:52	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	UQ	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF02-01	SDG No.:	Q1421
Lab Sample ID:	Q1421-10	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141807.D	1	02/26/25 11:20	02/28/25 13:52	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	64.4		10 - 139	43%	SPK: 150
13127-88-3	Phenol-d6	38.7		10 - 134	26%	SPK: 150
4165-60-0	Nitrobenzene-d5	116		49 - 133	116%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.4		52 - 132	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	169		44 - 137	113%	SPK: 150
1718-51-0	Terphenyl-d14	92.4		48 - 125	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	260000	6.887			
1146-65-2	Naphthalene-d8	1030000	8.169			
15067-26-2	Acenaphthene-d10	584000	9.922			
1517-22-2	Phenanthrene-d10	1060000	11.404			
1719-03-5	Chrysene-d12	833000	14.045			
1520-96-3	Perylene-d12	649000	15.516			

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\BF022825\
Data File : BF141807.D
Acq On : 28 Feb 2025 13:52
Operator : RC/JU
Sample : Q1421-10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Time: Feb 28 14:58:02 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 01:48:16 2025
Response via : Initial Calibration

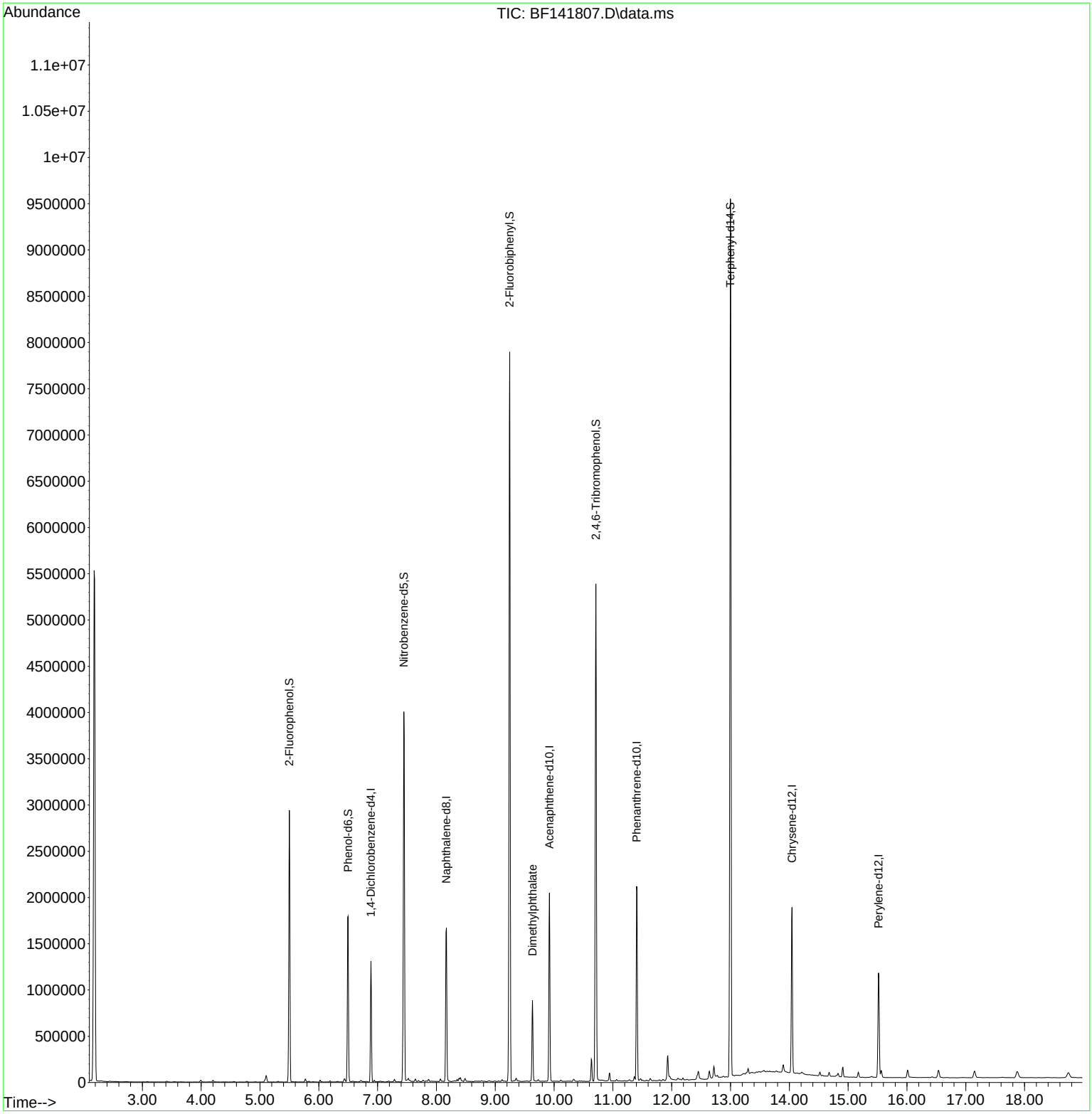
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	260046	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	1033711	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	583774	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	1061722	20.000	ng	0.00
76) Chrysene-d12	14.045	240	832766	20.000	ng	0.00
86) Perylene-d12	15.516	264	649277	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	1049095	64.427	ng	0.00
7) Phenol-d6	6.498	99	821014	38.737	ng	-0.01
23) Nitrobenzene-d5	7.445	82	1868922	115.566	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	927516	169.237	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	3474692	95.439	ng	0.00
79) Terphenyl-d14	12.998	244	4754792	92.377	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	9.634	163	474210	12.130	ng	99

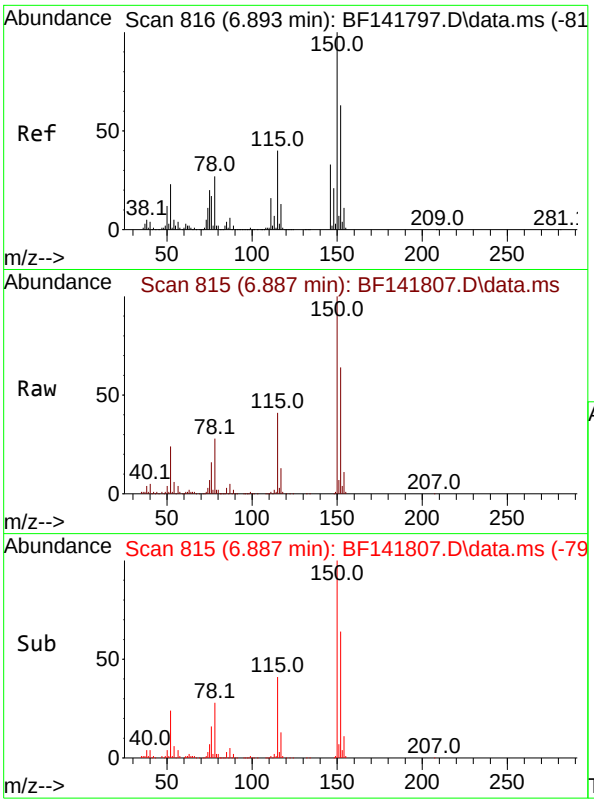
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141807.D
Acq On : 28 Feb 2025 13:52
Operator : RC/JU
Sample : Q1421-10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Quant Time: Feb 28 14:58:02 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 01:48:16 2025
Response via : Initial Calibration



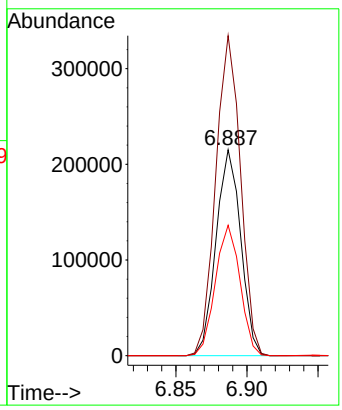


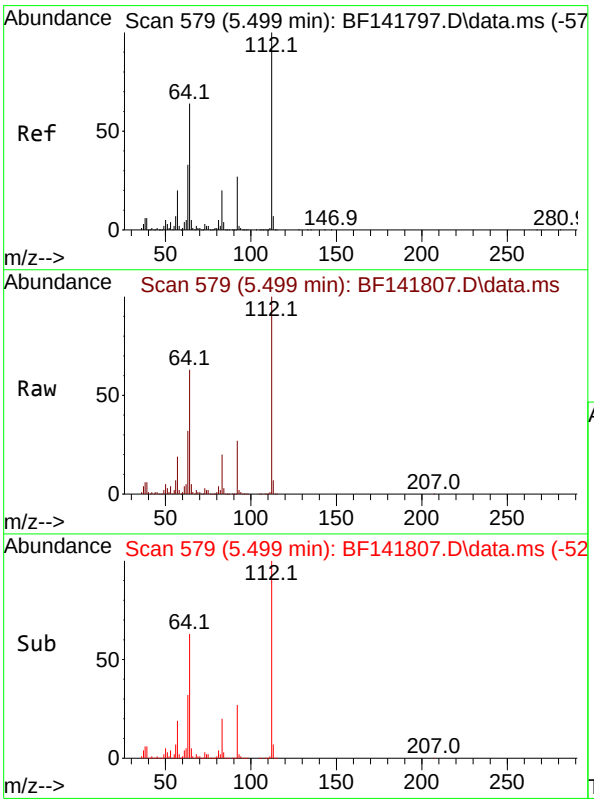
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:152 Resp: 260046

Ion	Ratio	Lower	Upper
152	100		
150	155.4	127.5	191.3
115	63.3	51.4	77.2

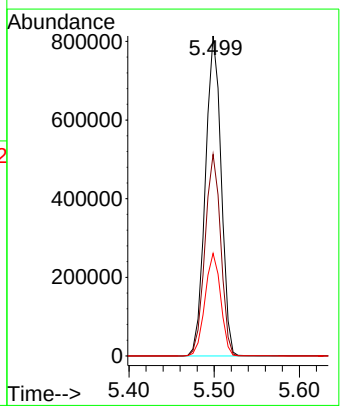


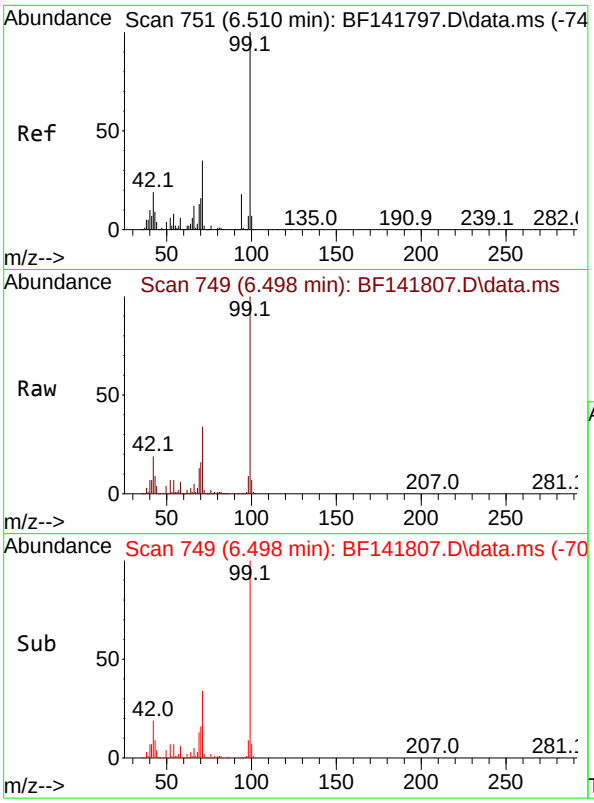


#5
2-Fluorophenol
Concen: 64.427 ng
RT: 5.499 min Scan# 579
Delta R.T. -0.000 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Tgt Ion:112 Resp: 1049095

Ion	Ratio	Lower	Upper
112	100		
64	63.0	51.3	76.9
63	32.1	26.2	39.4



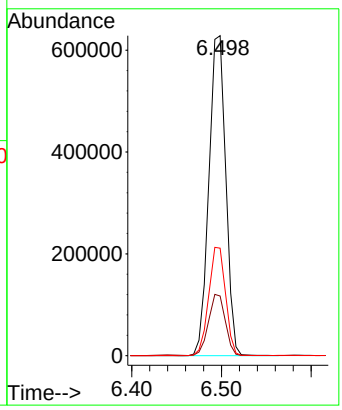


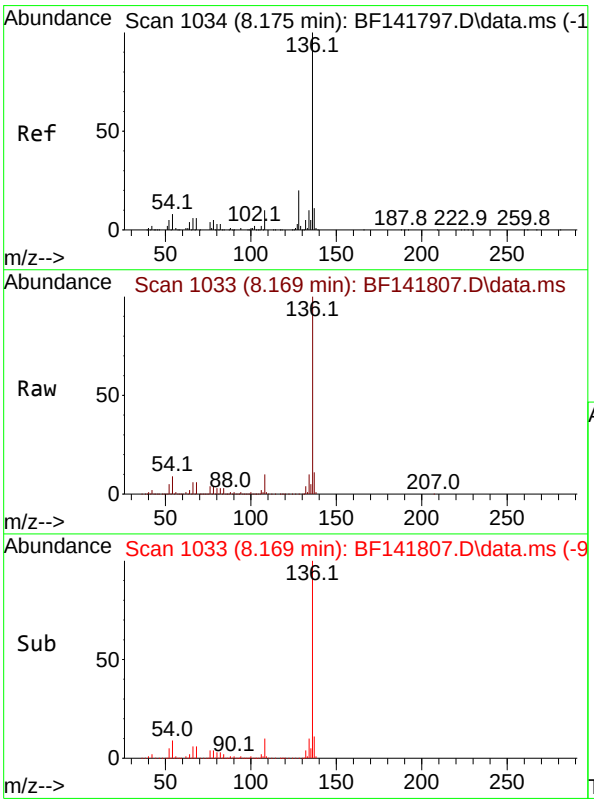
#7
Phenol-d6
Concen: 38.737 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion: 99 Resp: 821014

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.2	22.8
71	33.6	28.2	42.2

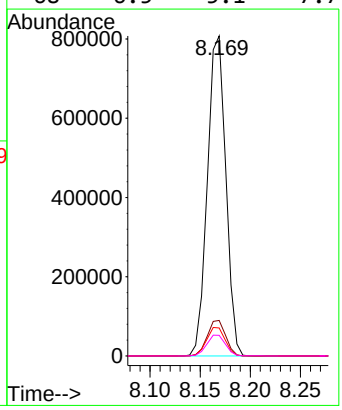


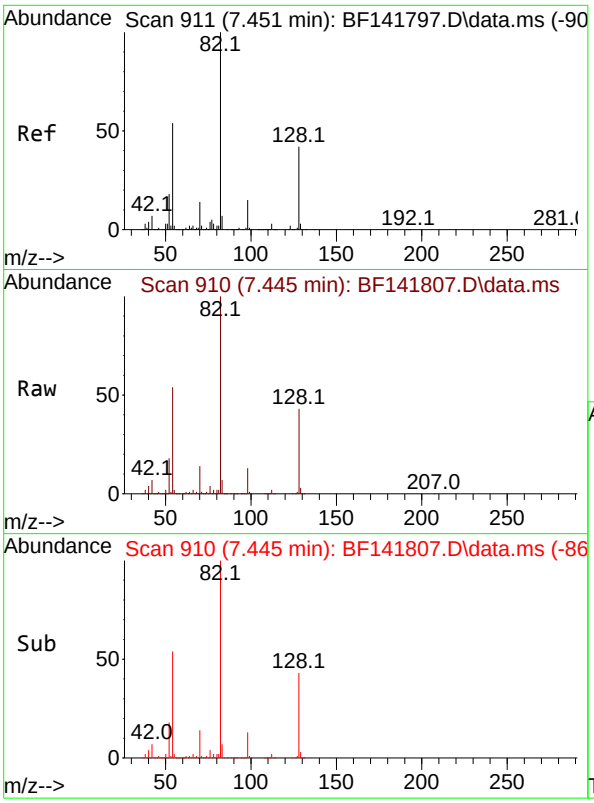


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Tgt Ion:136 Resp: 1033711

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.7	6.9	10.3
68	6.5	5.1	7.7



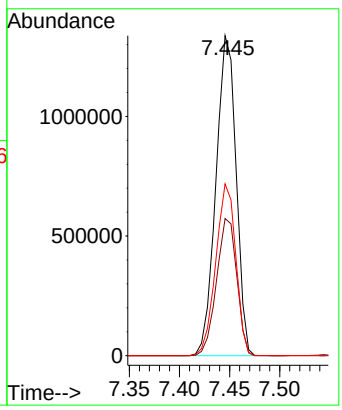


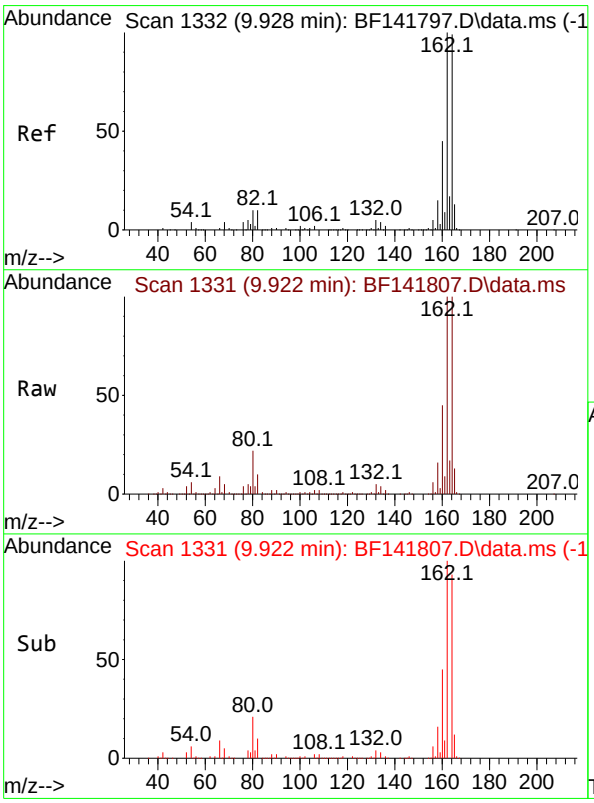
#23
Nitrobenzene-d5
Concen: 115.566 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion: 82 Resp: 1868922

Ion	Ratio	Lower	Upper
82	100		
128	42.8	33.5	50.3
54	53.7	42.7	64.1

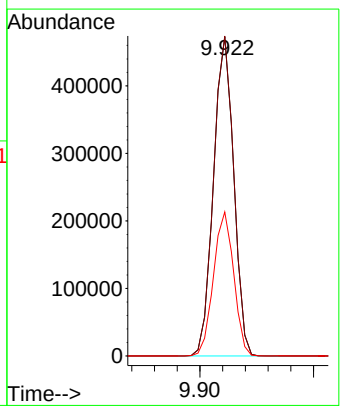


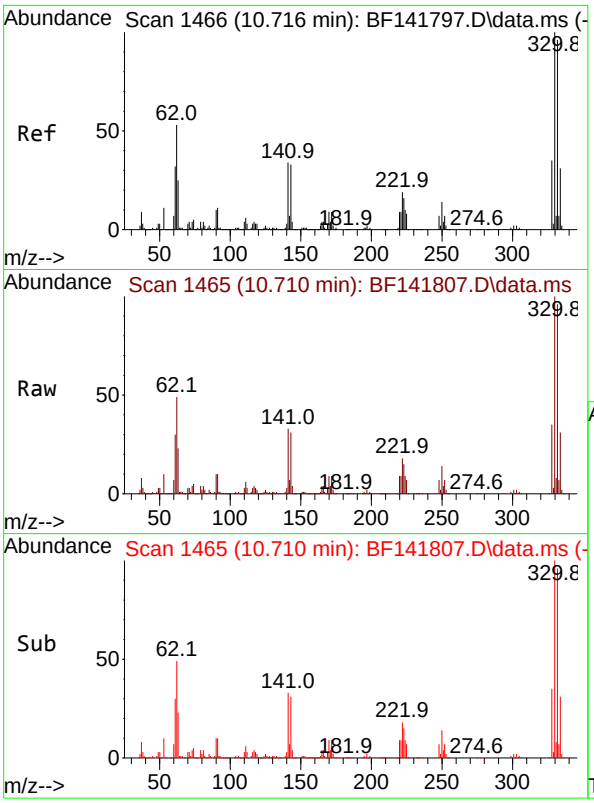


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Tgt Ion:164 Resp: 583774

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.6	120.8
160	45.1	36.3	54.5



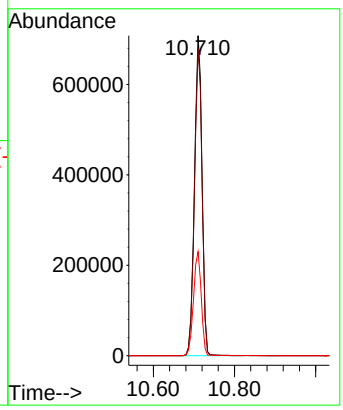


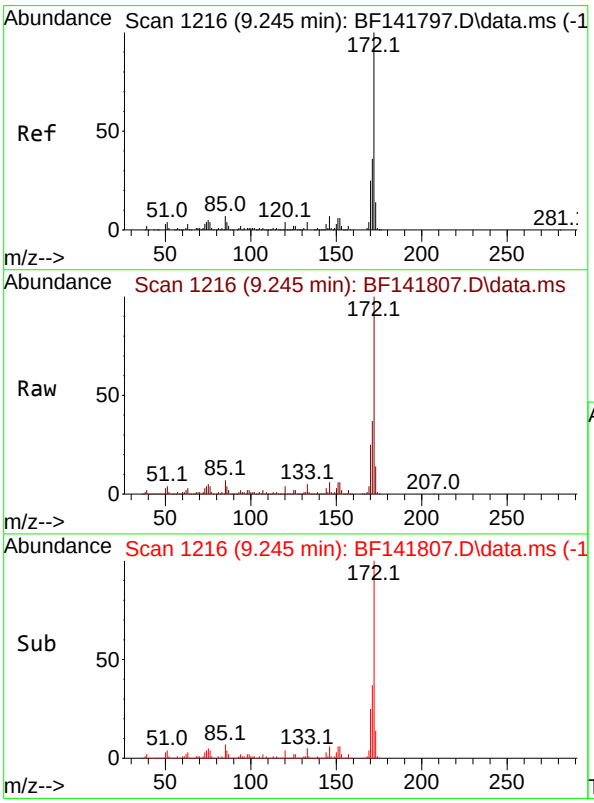
#42
2,4,6-Tribromophenol
Concen: 169.237 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:330 Resp: 927516

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.6	115.0
141	33.3	29.0	43.4

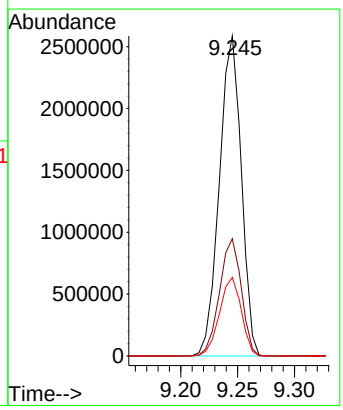


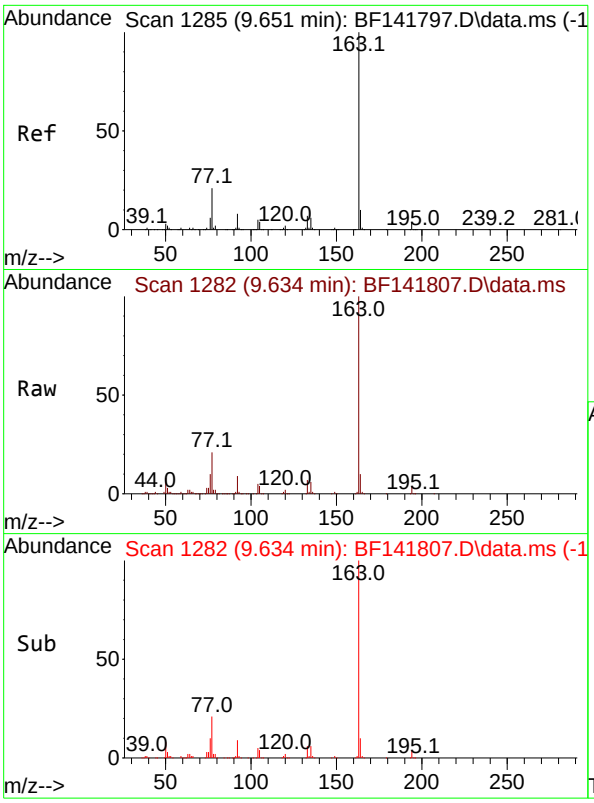


#45
2-Fluorobiphenyl
Concen: 95.439 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.000 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Tgt Ion:172 Resp: 3474692

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.2	43.8
170	24.6	19.7	29.5



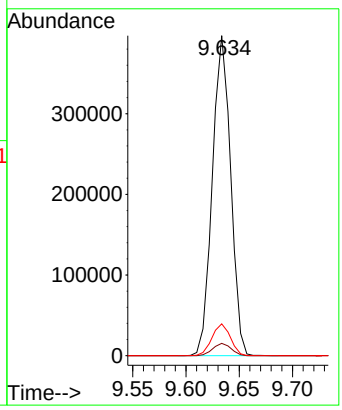


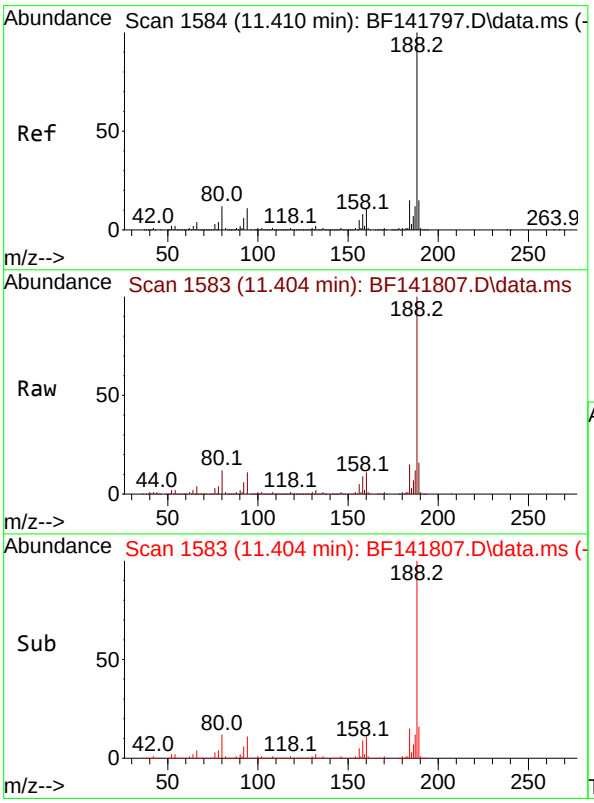
#50
Dimethylphthalate
Concen: 12.130 ng
RT: 9.634 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:163 Resp: 474210

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.0	8.4	12.6

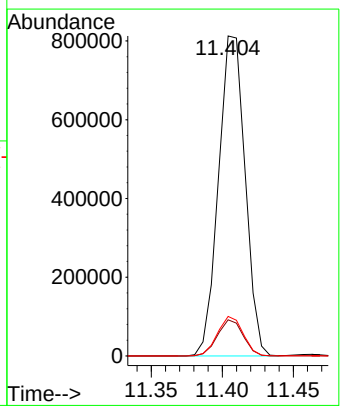


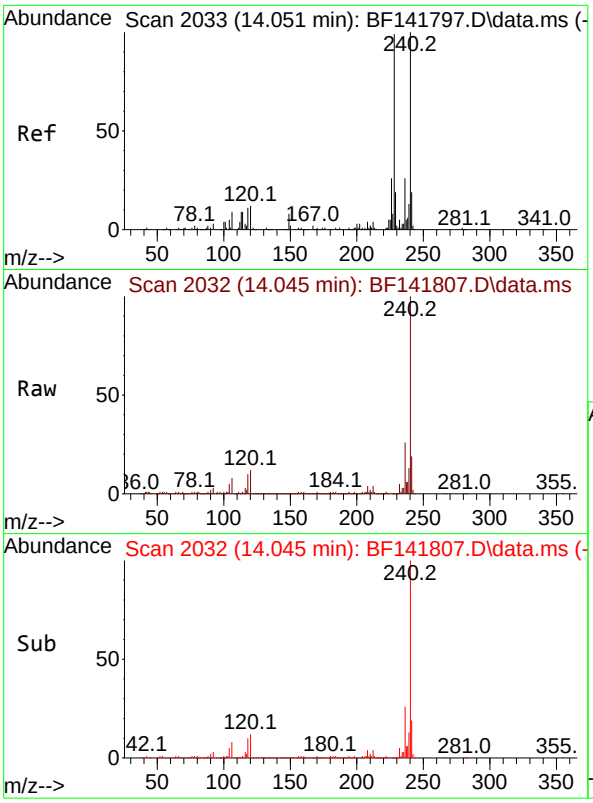


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Tgt Ion:188 Resp: 1061722

Ion	Ratio	Lower	Upper
188	100		
94	11.3	8.9	13.3
80	12.3	9.7	14.5



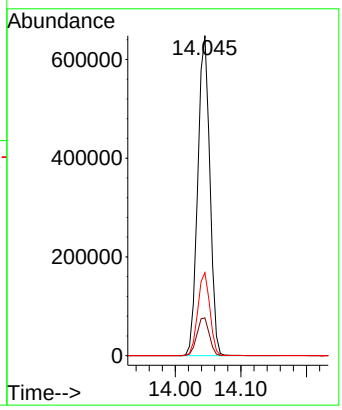


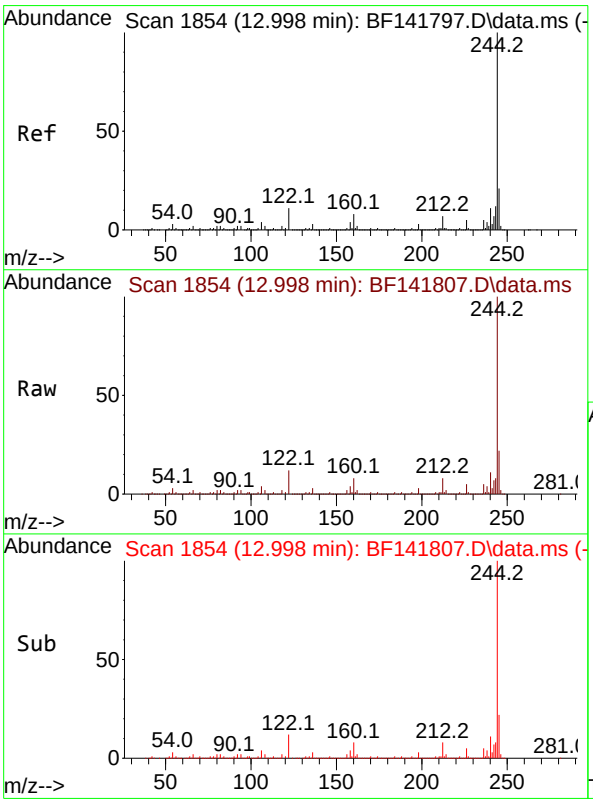
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:240 Resp: 832766

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.7	14.5
236	26.0	21.0	31.4

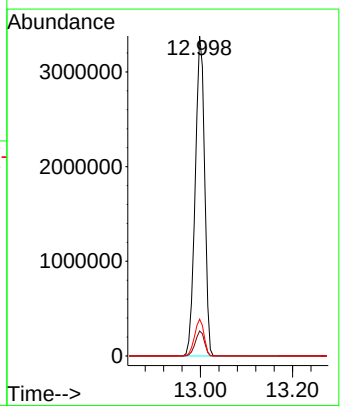


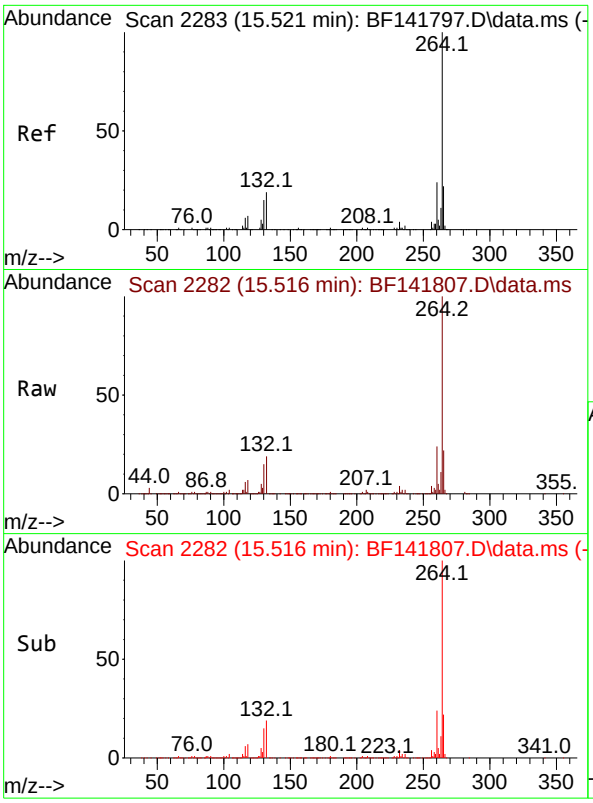


#79
Terphenyl-d14
Concen: 92.377 ng
RT: 12.998 min Scan# 1854
Delta R.T. -0.000 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Tgt Ion:244 Resp: 4754792

Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.0	9.0
122	11.5	9.0	13.6



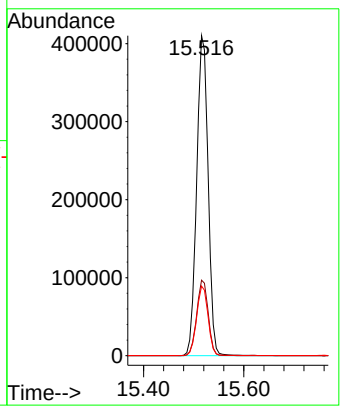


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.516 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141807.D
Acq: 28 Feb 2025 13:52

Instrument :
BNA_F
ClientSampleId :
P001-CLAY-CF02-01

Tgt Ion:264 Resp: 649277

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.9	28.3
265	21.7	17.4	26.0



CALIBRATION SUMMARY

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 =BF1418
00.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

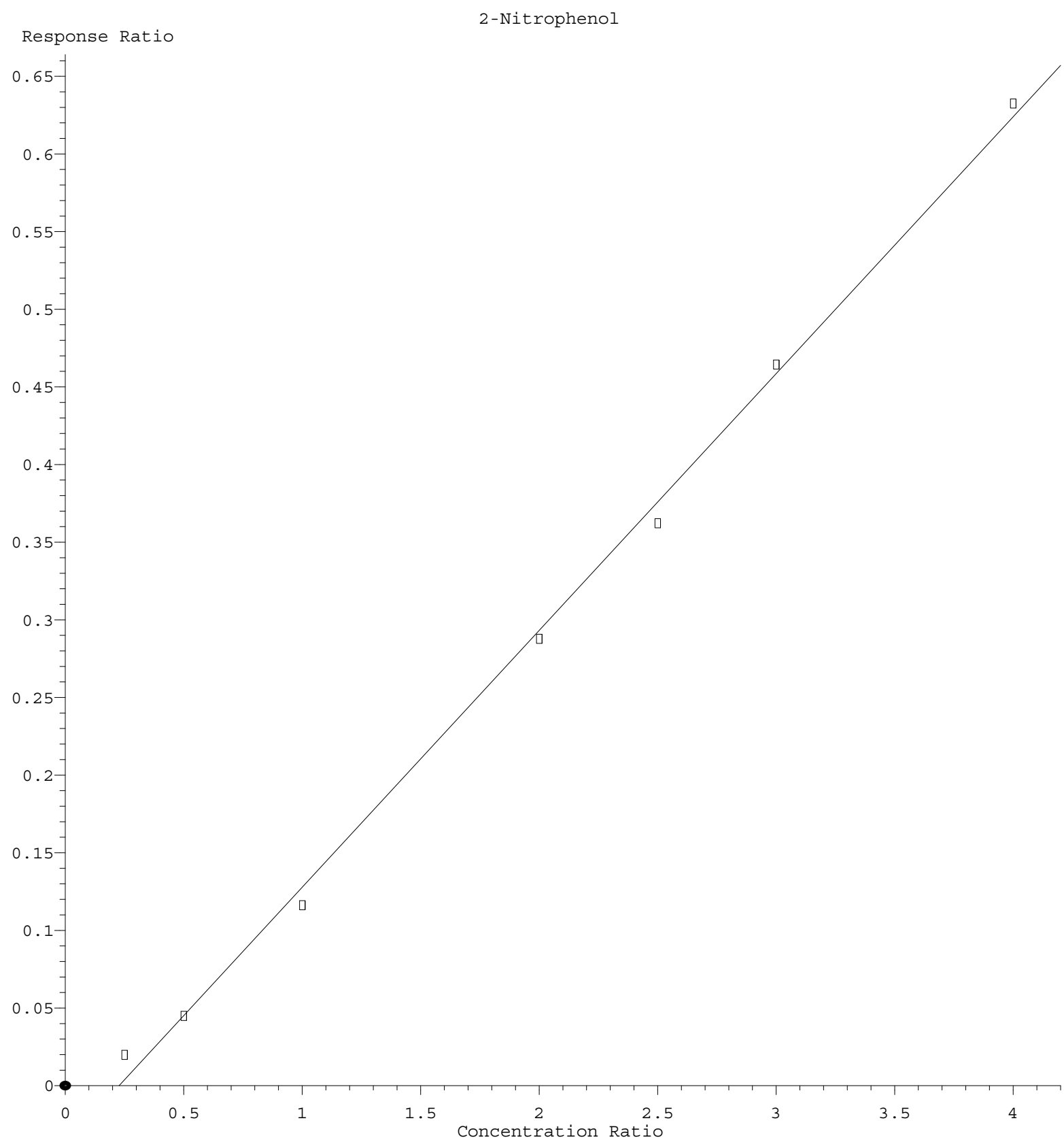
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.600	0.602	0.589	0.549	0.553	0.540	0.578	5.03
41)	P	Hexachlorocycl...	0.217	0.230	0.252	0.258	0.246	0.247	0.236	0.241	5.87
42)	S	2,4,6-Tribromo...	0.175	0.179	0.188	0.199	0.183	0.196	0.194	0.188	4.80
43)	C	2,4,6-Trichlor...	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

Response Factor Report BNA_F

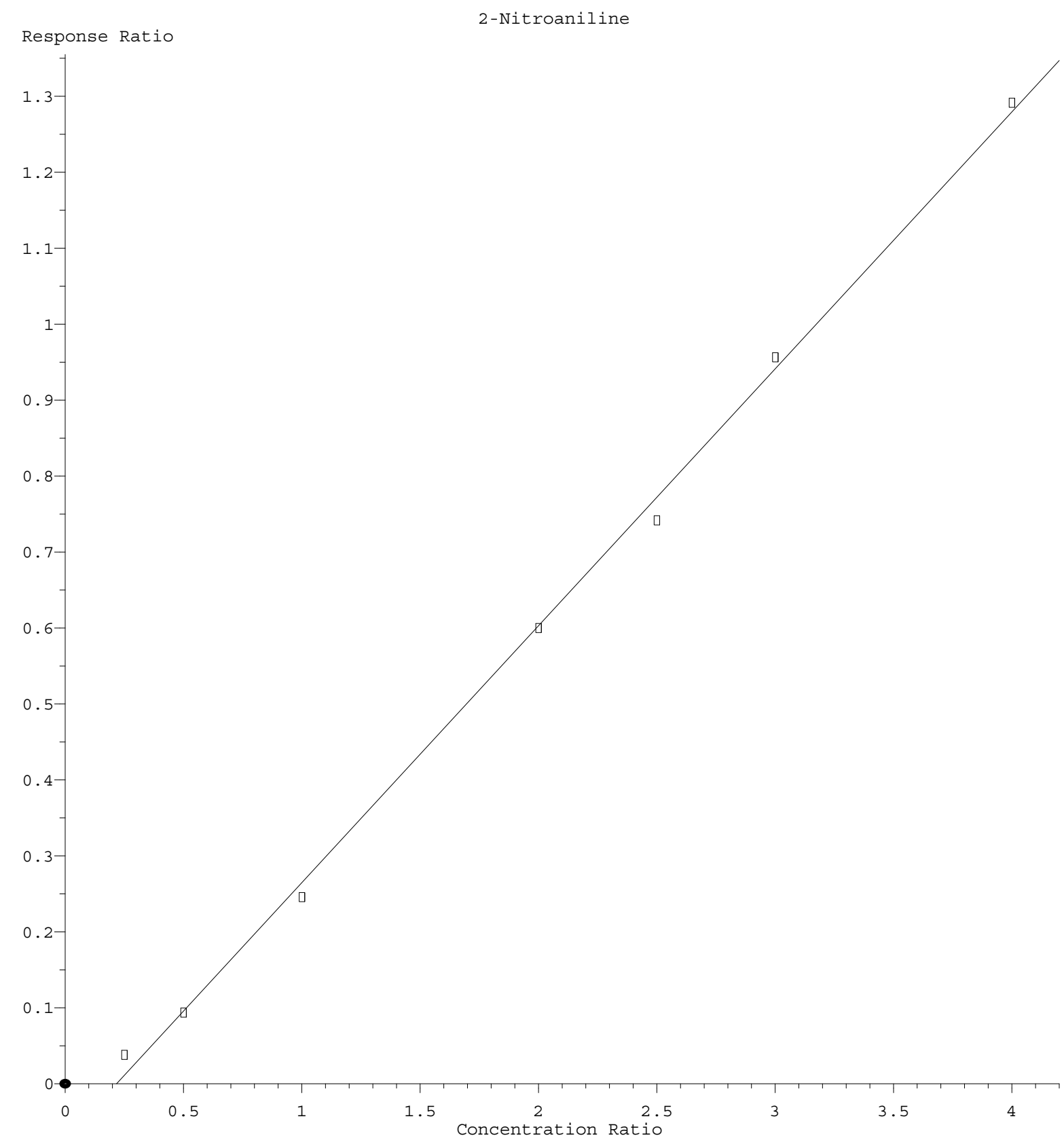
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF022725.M

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

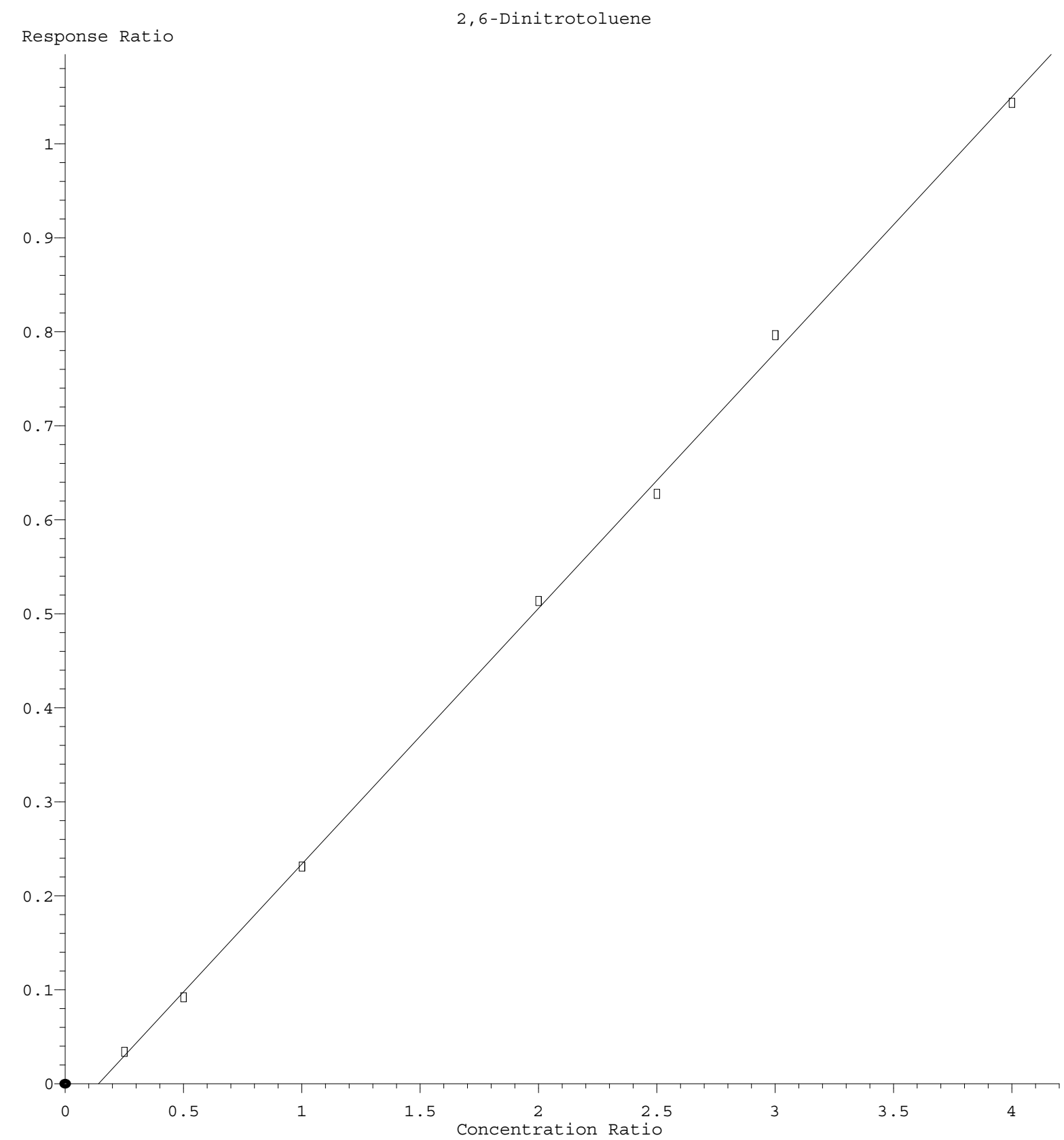
(#) = Out of Range



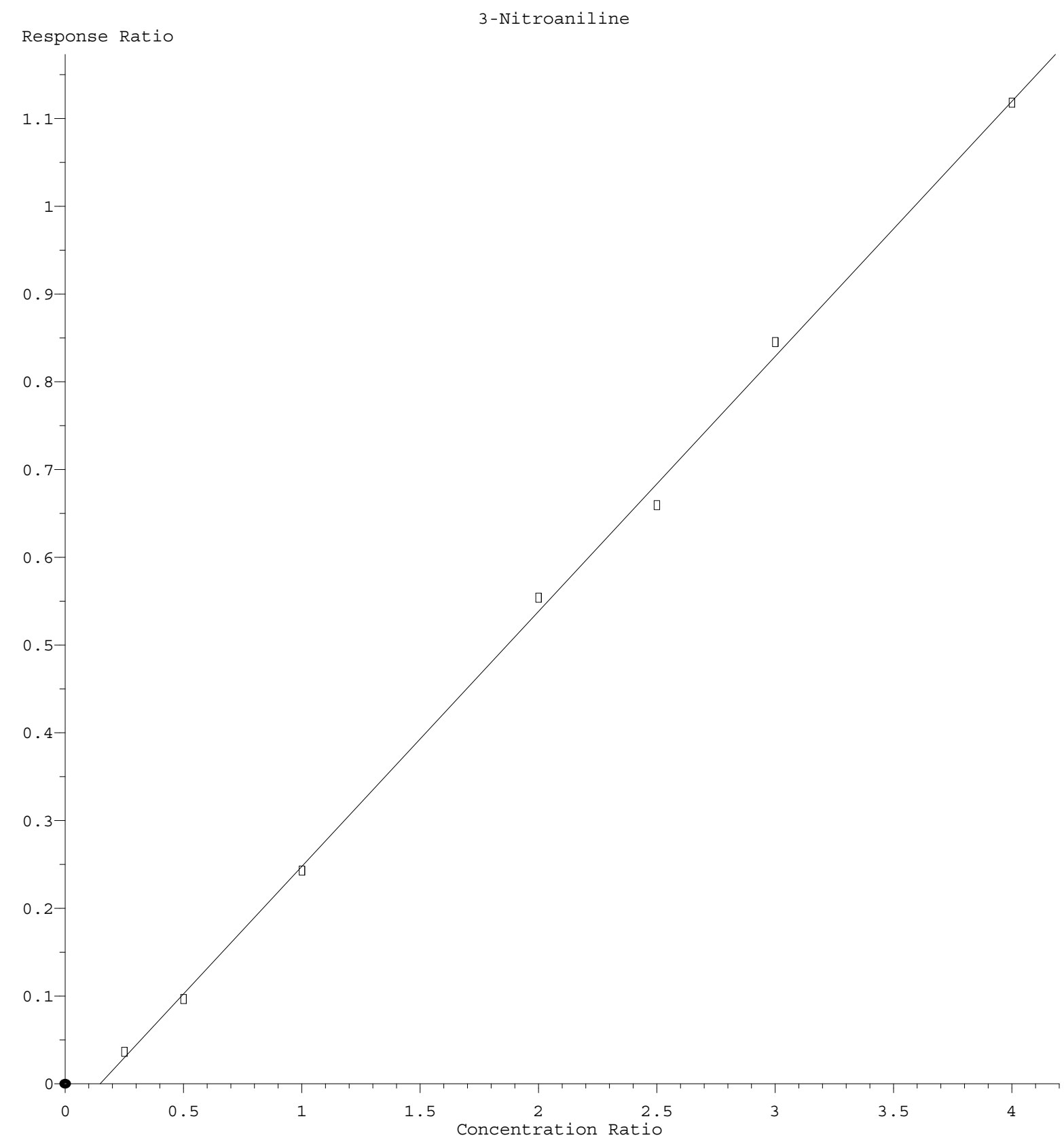
Response = 1.654e-001 * Amt - 3.762e-002
Coef of Det (r^2) = 0.997727 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



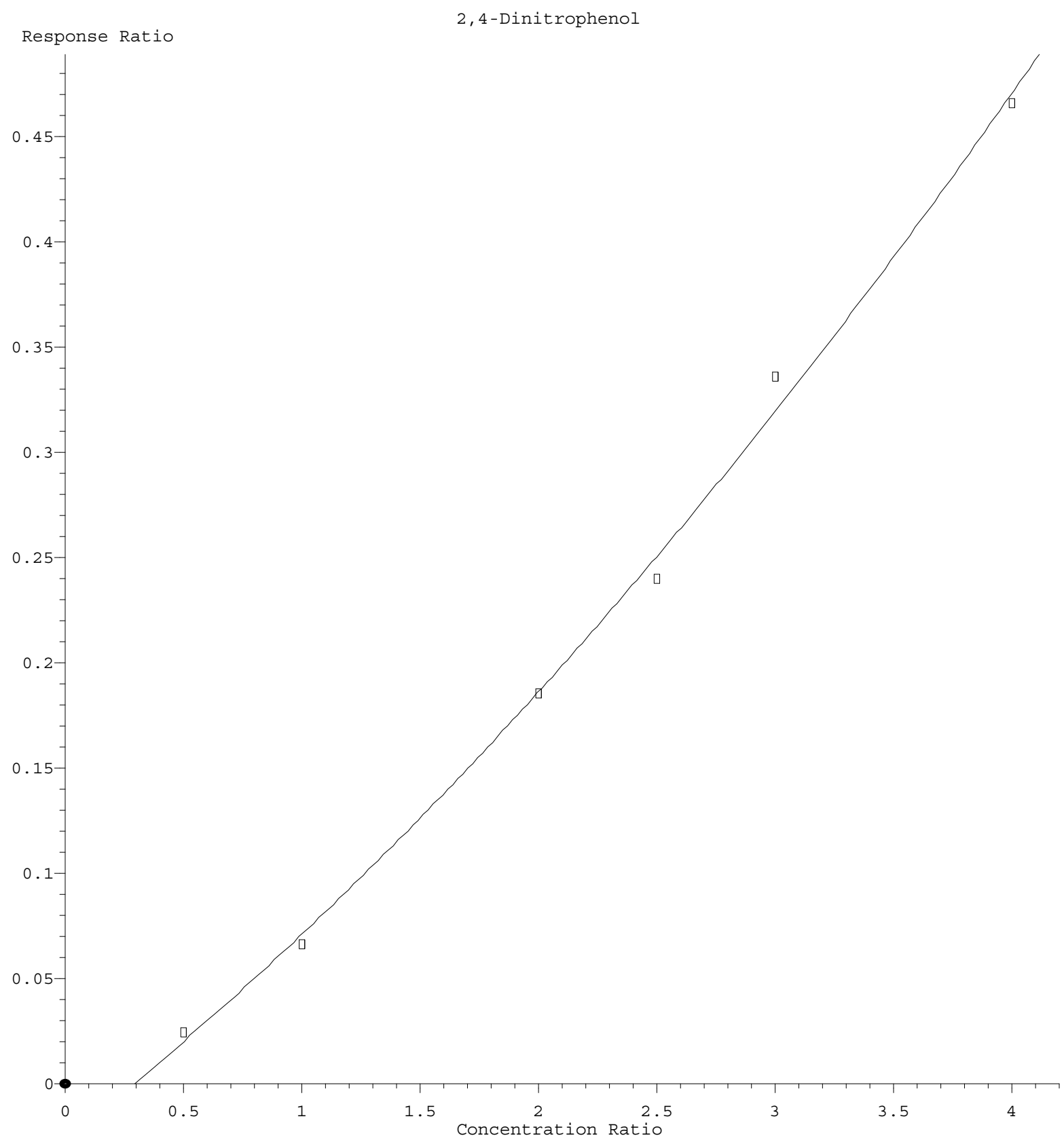
Response = 3.381e-001 * Amt - 7.336e-002
Coef of Det (r^2) = 0.998178 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



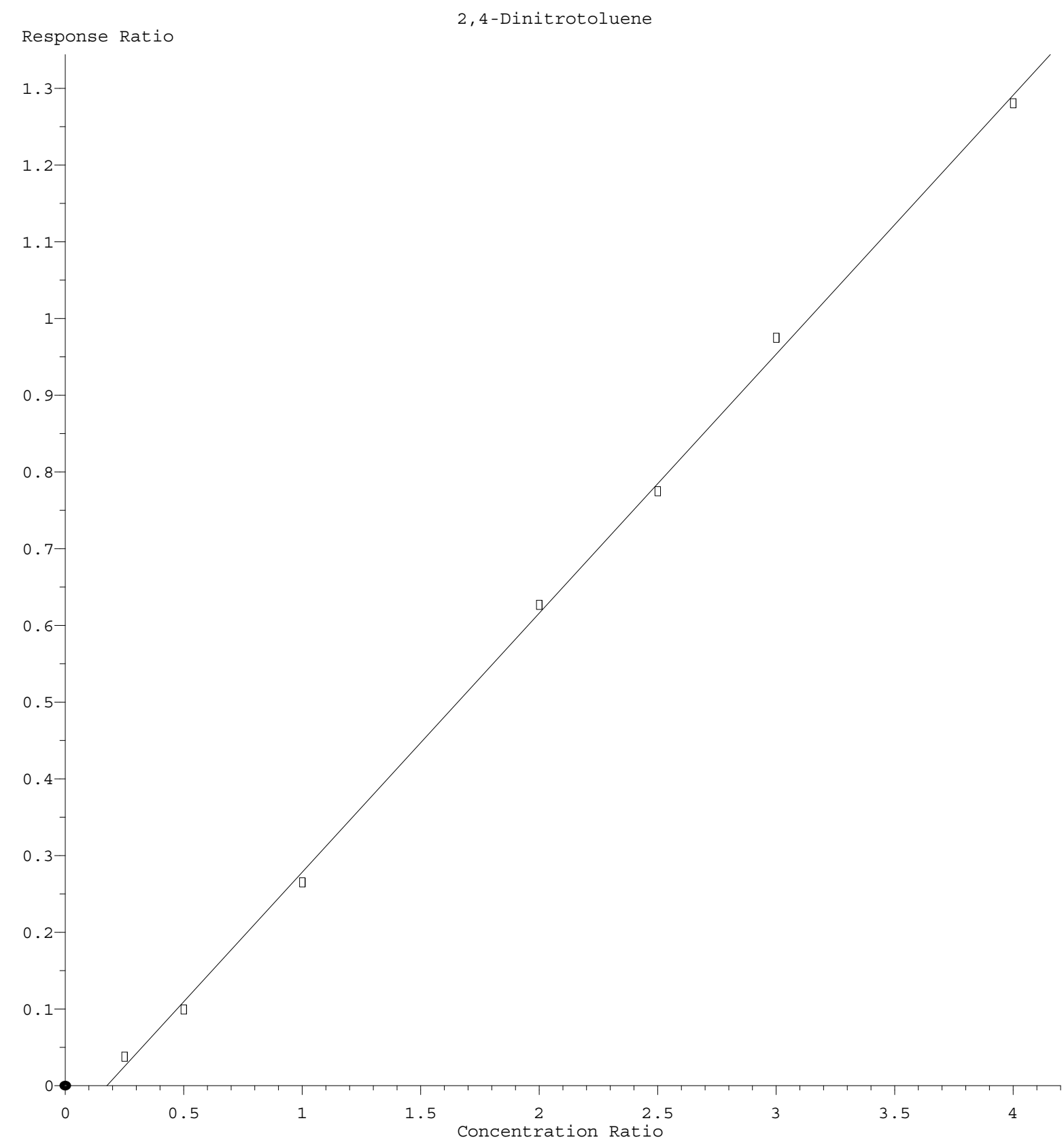
Response = 2.723e-001 * Amt - 3.850e-002
Coef of Det (r^2) = 0.999171 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



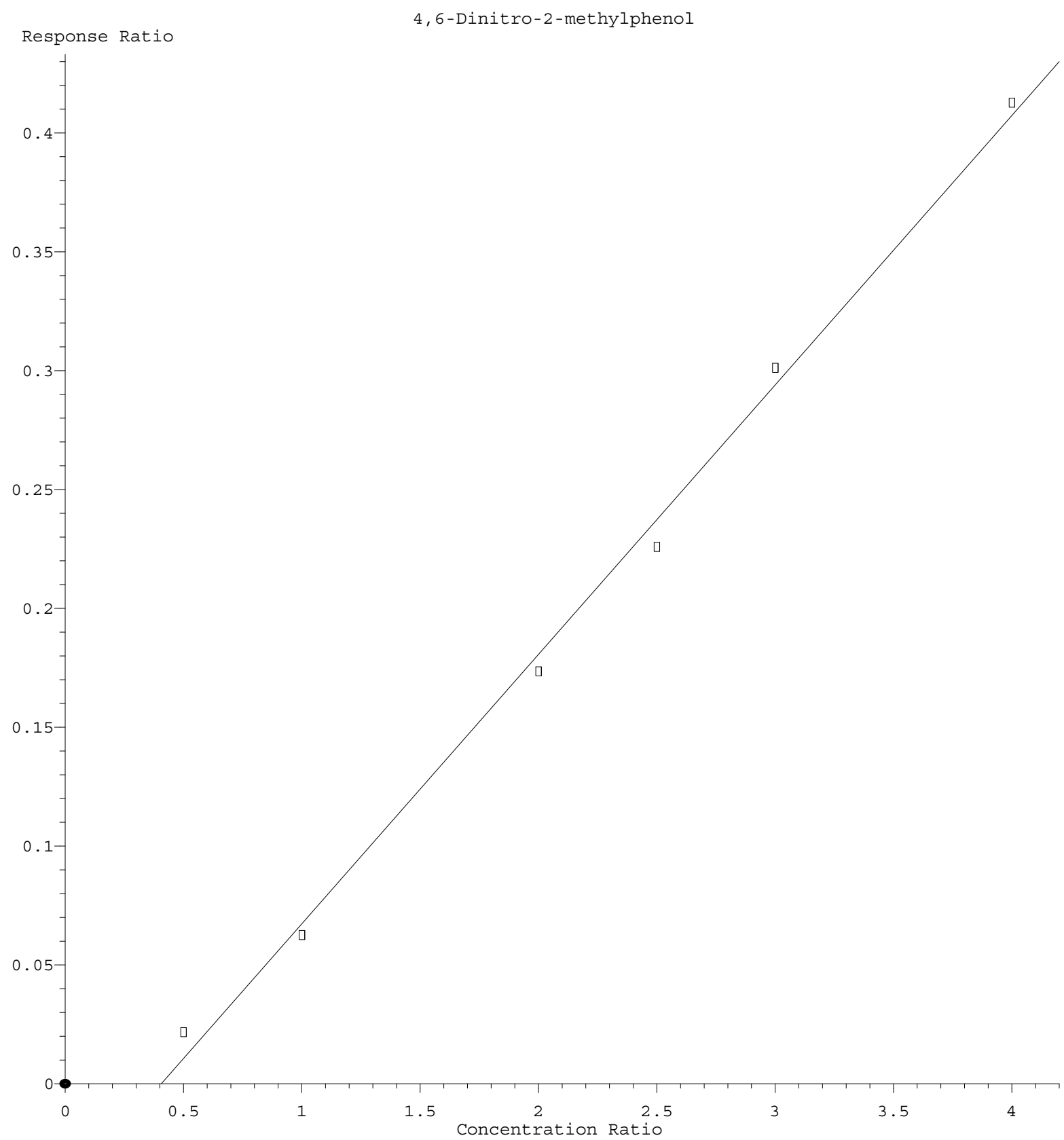
Response = 2.909e-001 * Amt - 4.315e-002
Coef of Det (r^2) = 0.998769 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025



R = 8.979e-003 A*A + 8.829e-002 A - 2.630e-002
Coef of Det (r^2) = 0.996714 Curve Fit: Quadratic
Method: C:\HPCHEM\1\METHODS\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: Q:\421SPLP BNA\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: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA F\Methods\8270-BF022725.M
Calibration Table Last Updated: Fri Feb 28 01:48:16 2025

Quantitation Report (QT Reviewed)

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

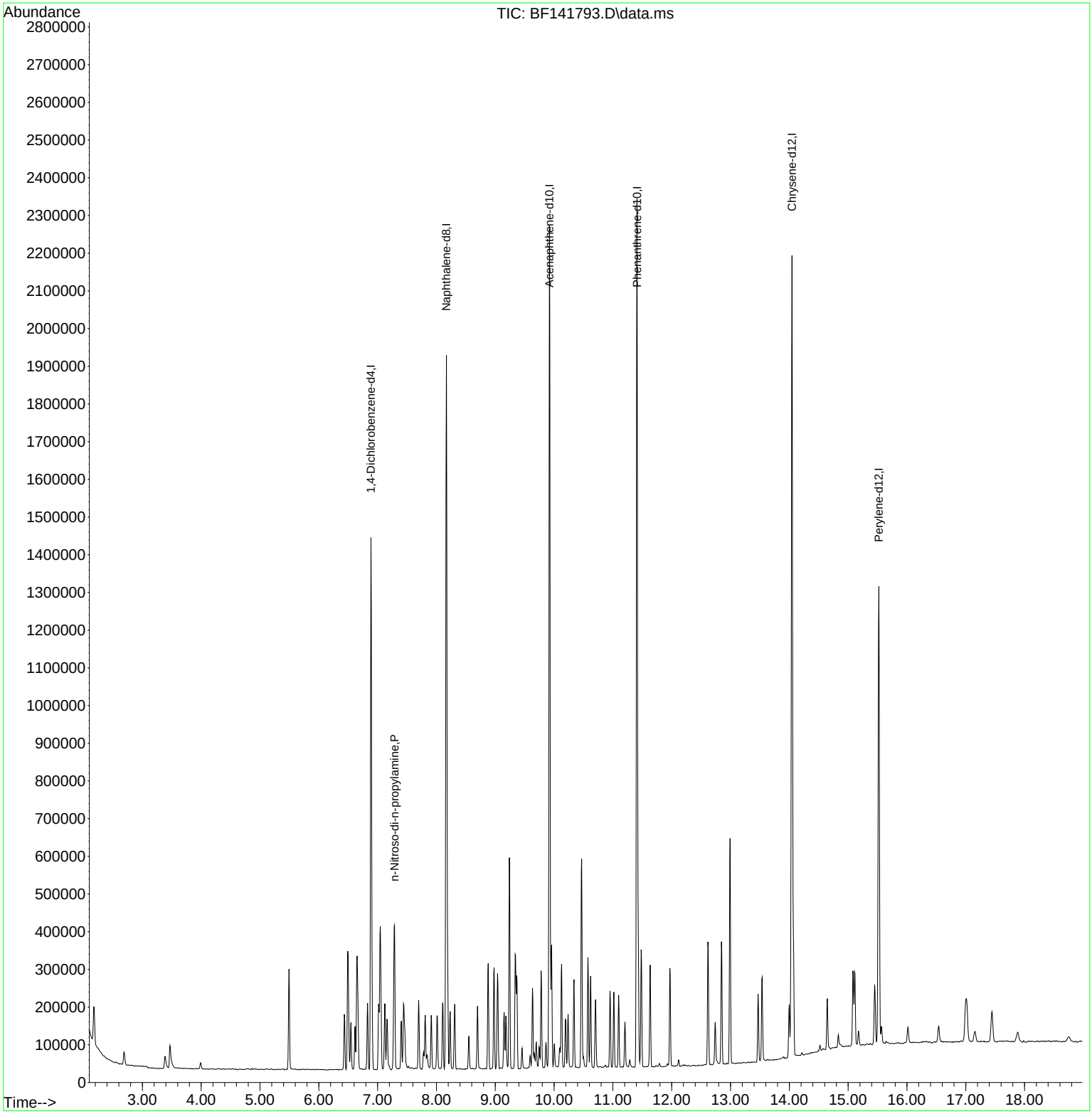
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	282413	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	1147711	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	650007	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1119232	20.000	ng	0.00
76) Chrysene-d12	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

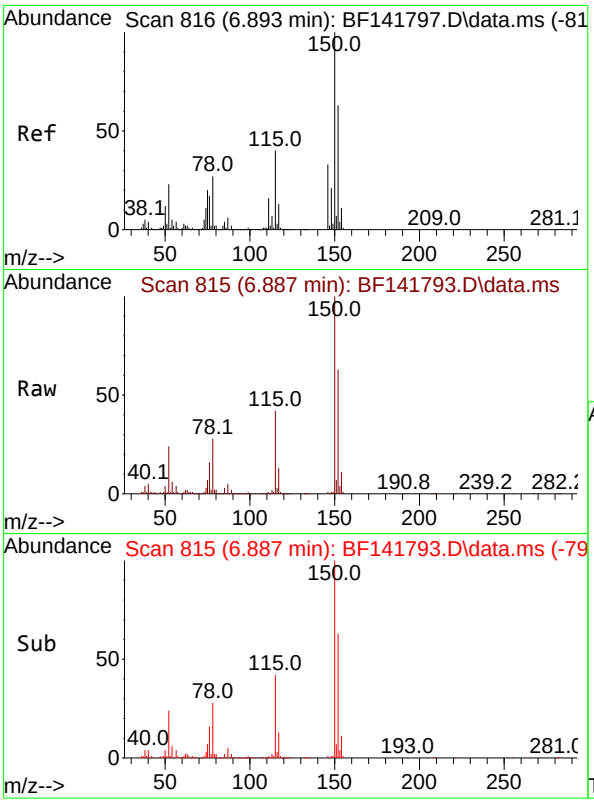
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



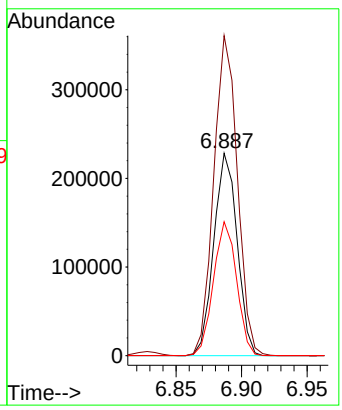


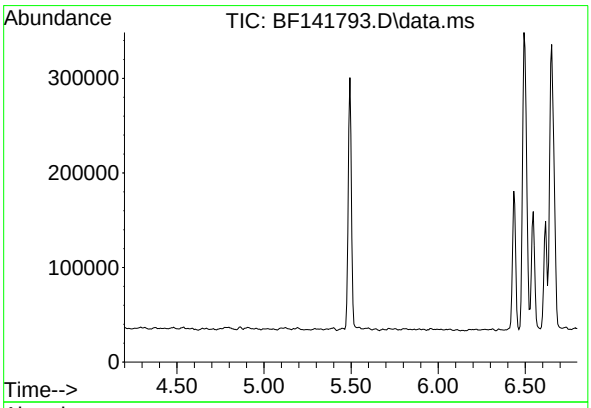
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

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



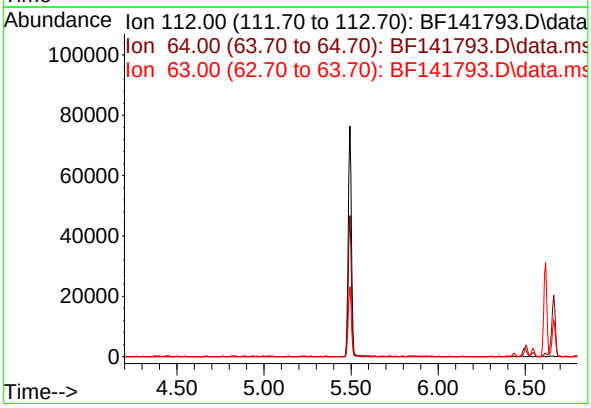


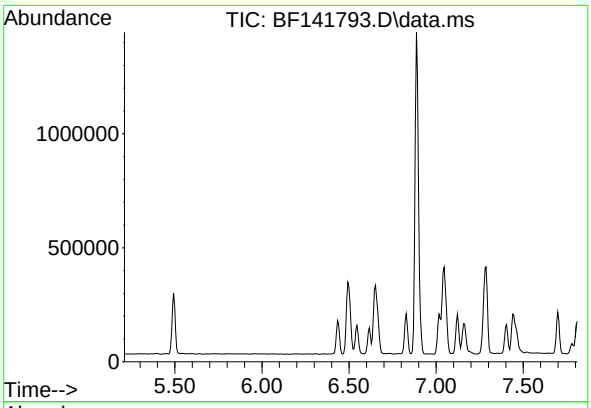
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

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

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	64.1
63	32.8





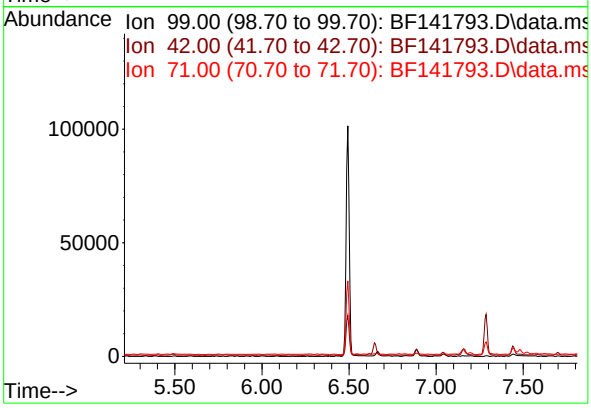
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

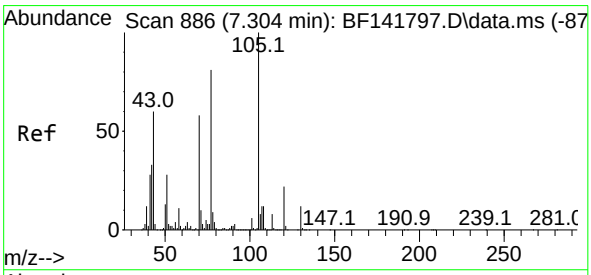
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	19.0
71	35.2

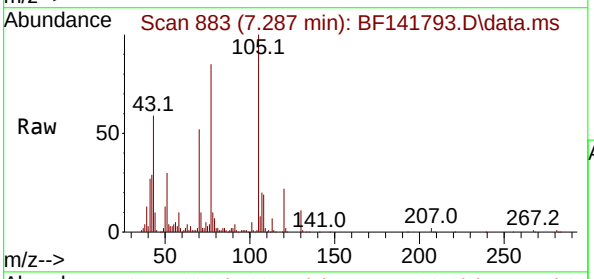


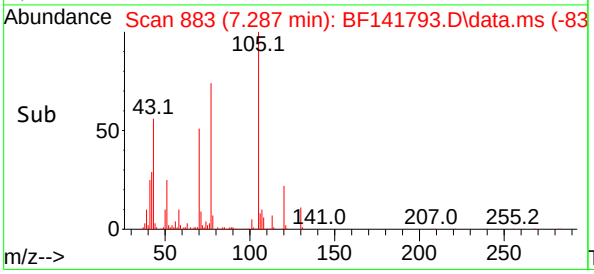


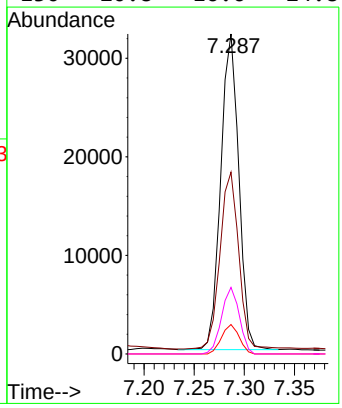
#19
n-Nitroso-di-n-propylamine
Concen: 2.936 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.018 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

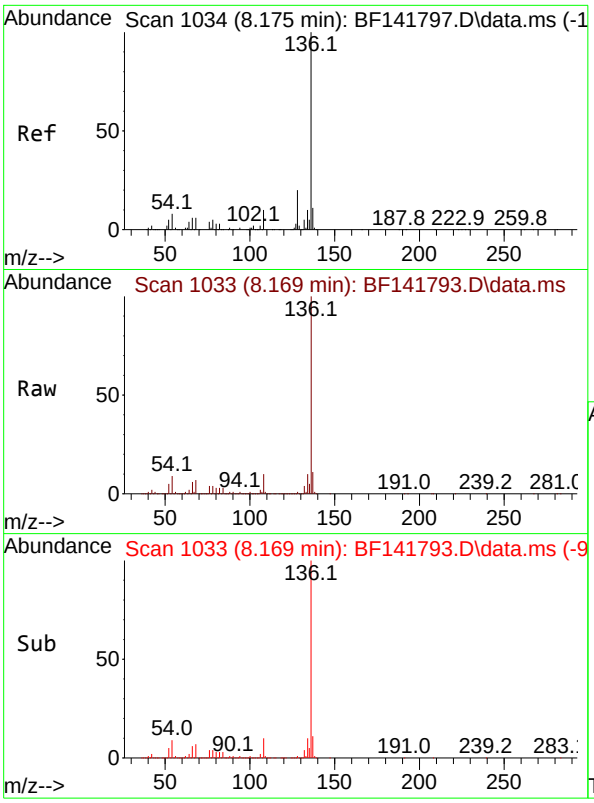
Tgt Ion: 70 Resp: 39992

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







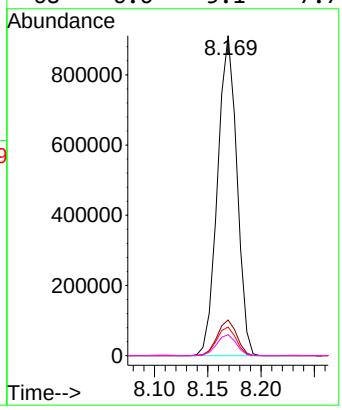


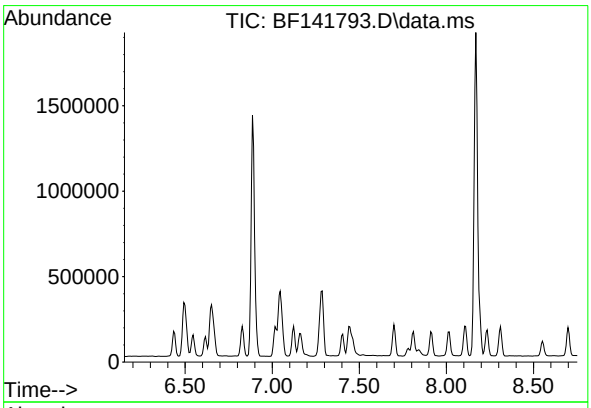
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

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



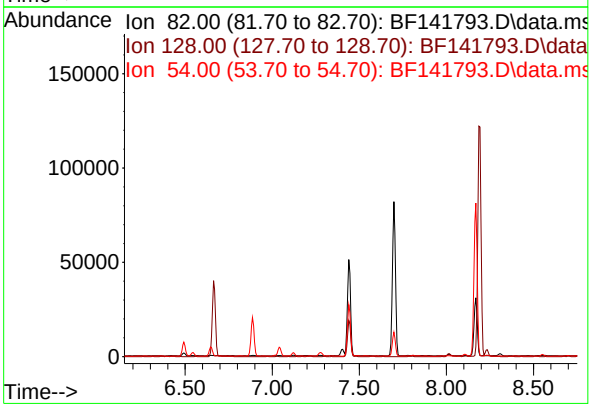


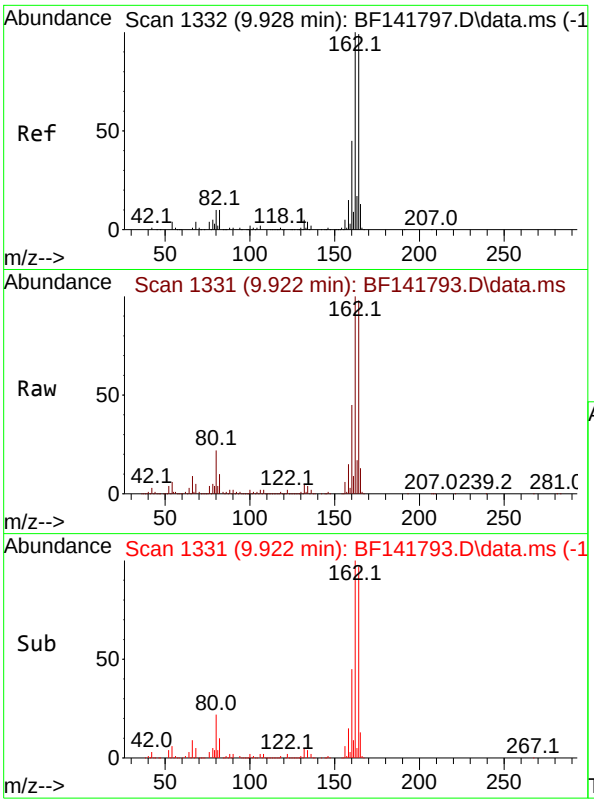
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

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

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.9
54	53.4



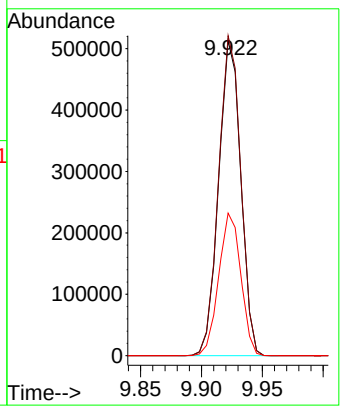


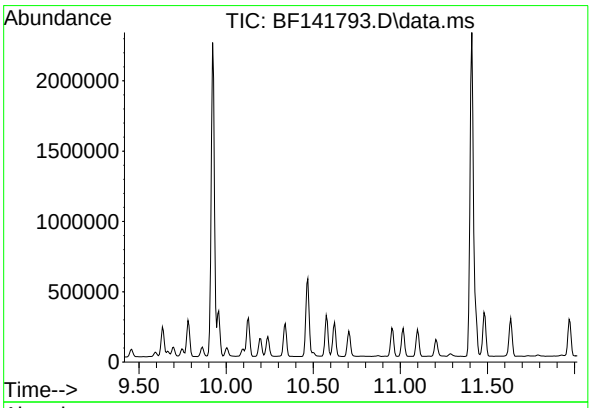
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

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



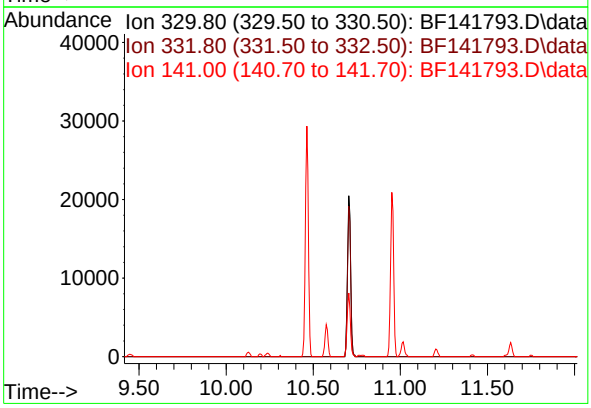


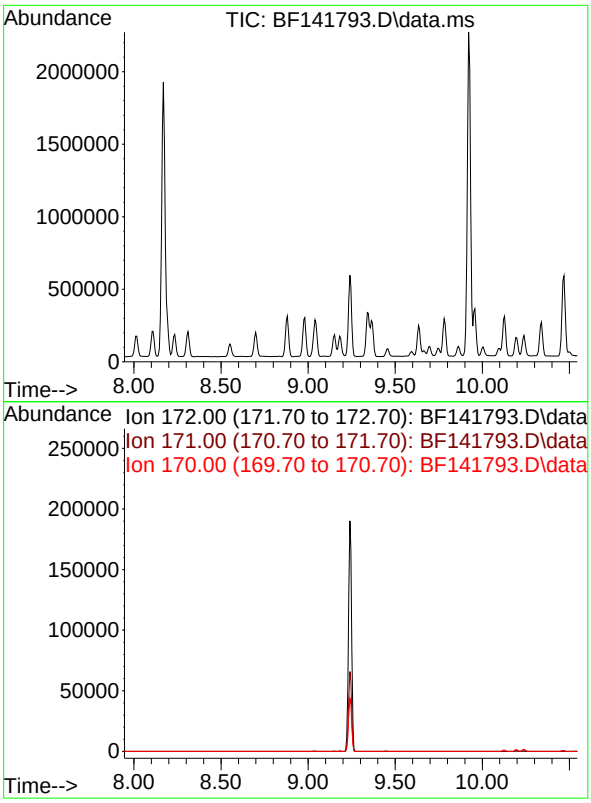
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

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

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.8
141	36.2





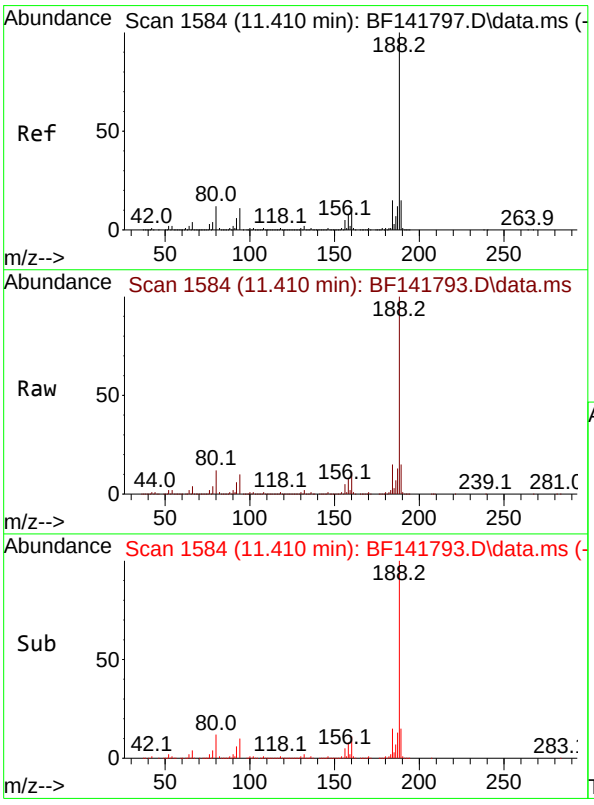
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

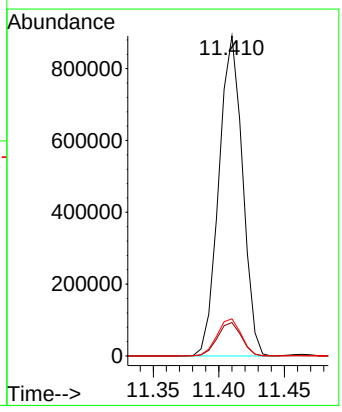
Sig	Exp Ratio
172	100
171	36.5
170	24.6

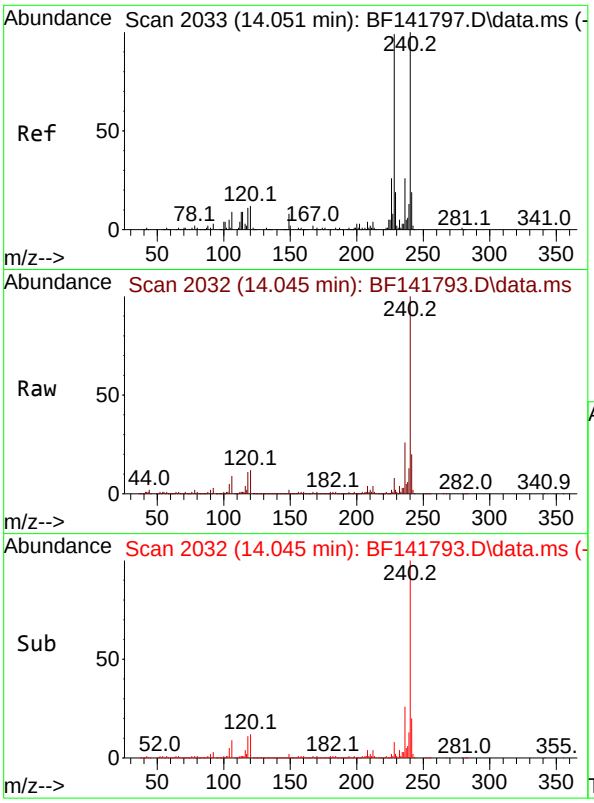


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

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



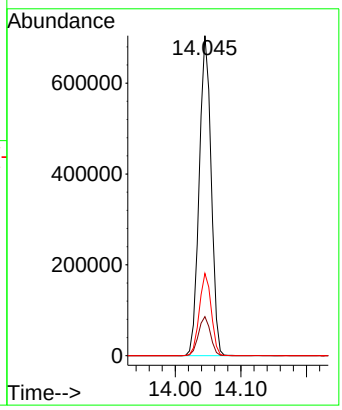


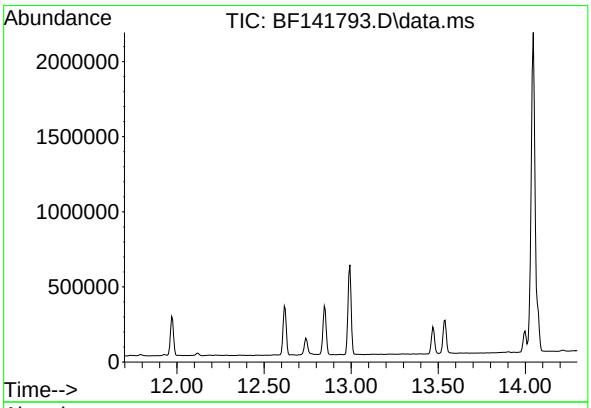
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

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



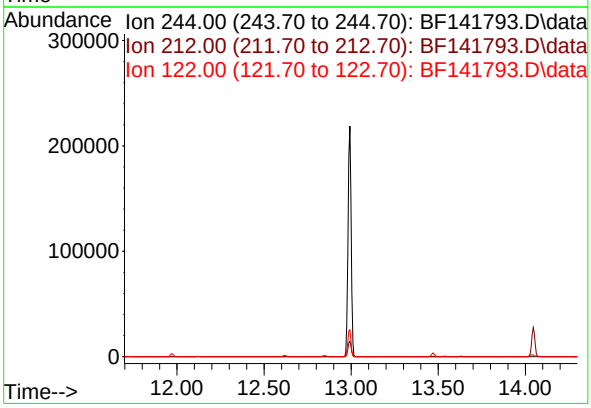


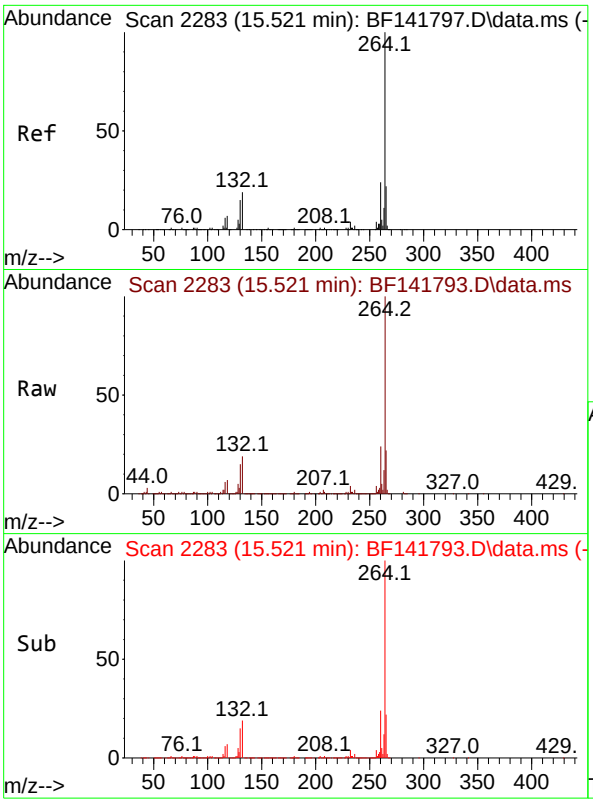
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

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

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.5
122	11.3



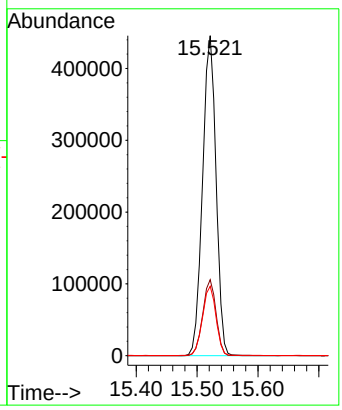


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141793.D
Acq: 27 Feb 2025 15:17

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



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

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)
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

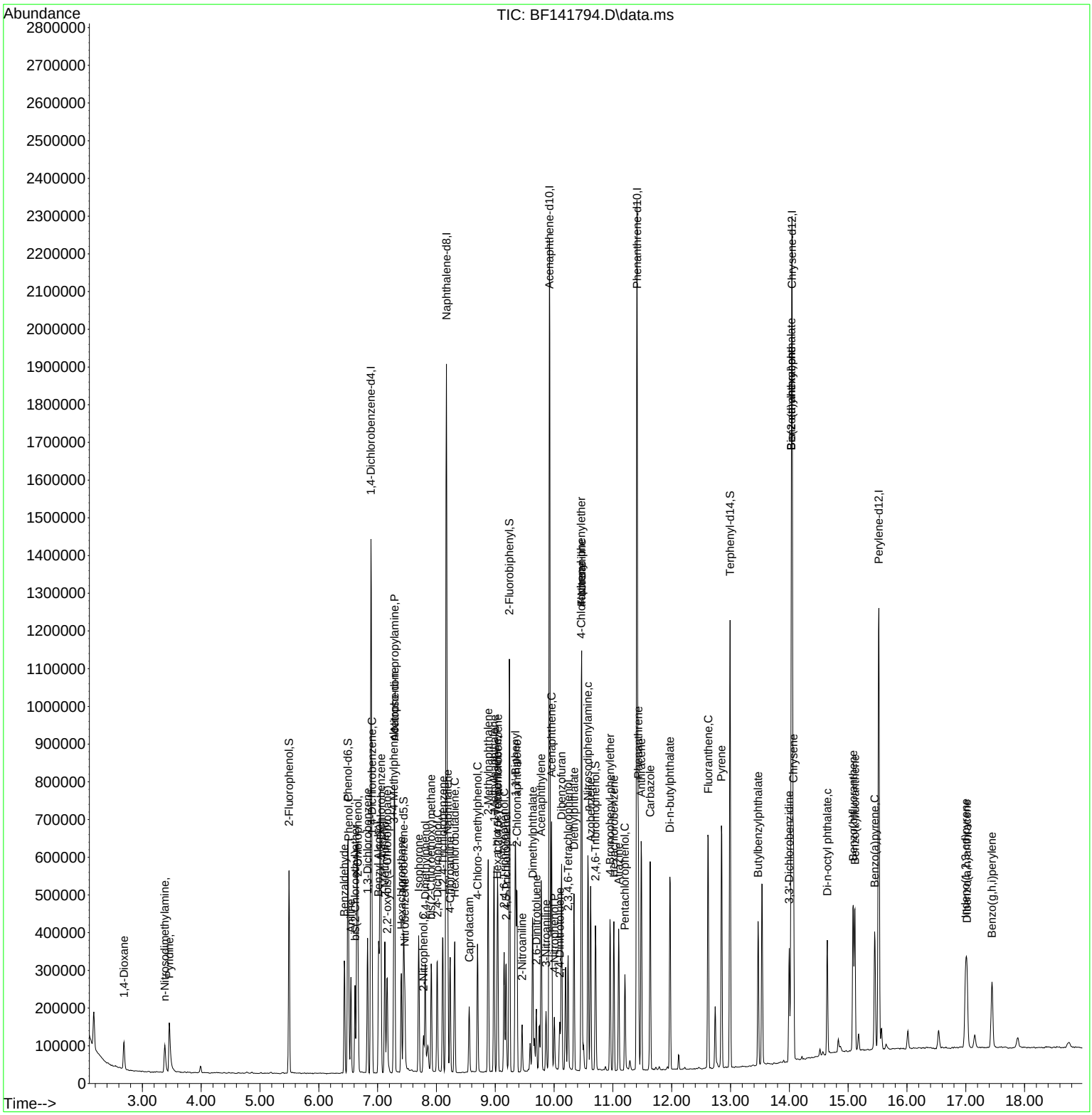
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141794.D
Acq On : 27 Feb 2025 15:46
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

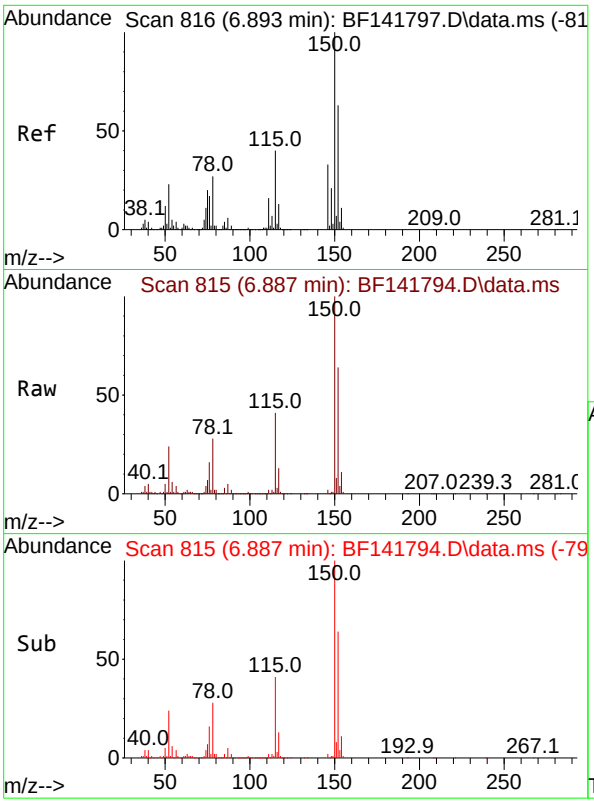
Quant Time: Feb 28 01:23:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

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

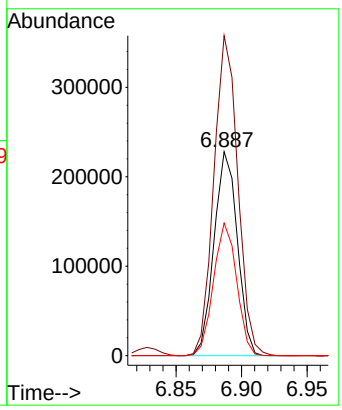




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:152 Resp: 28155

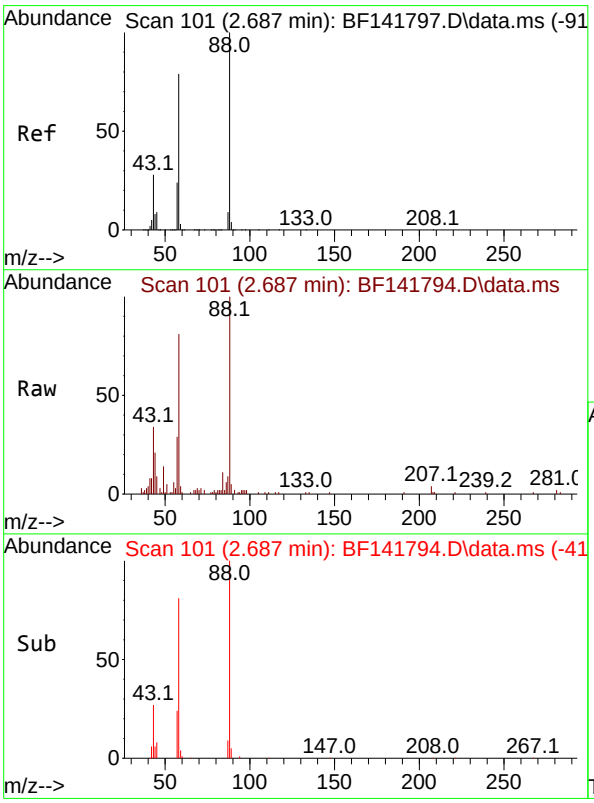
Ion	Ratio	Lower	Upper
152	100		
150	156.8	127.5	191.3
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

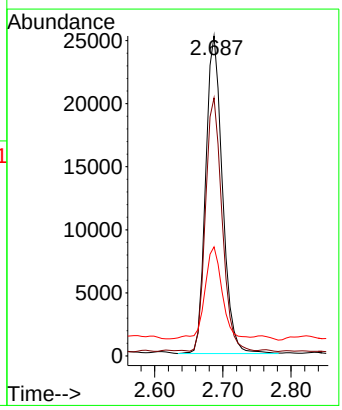
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

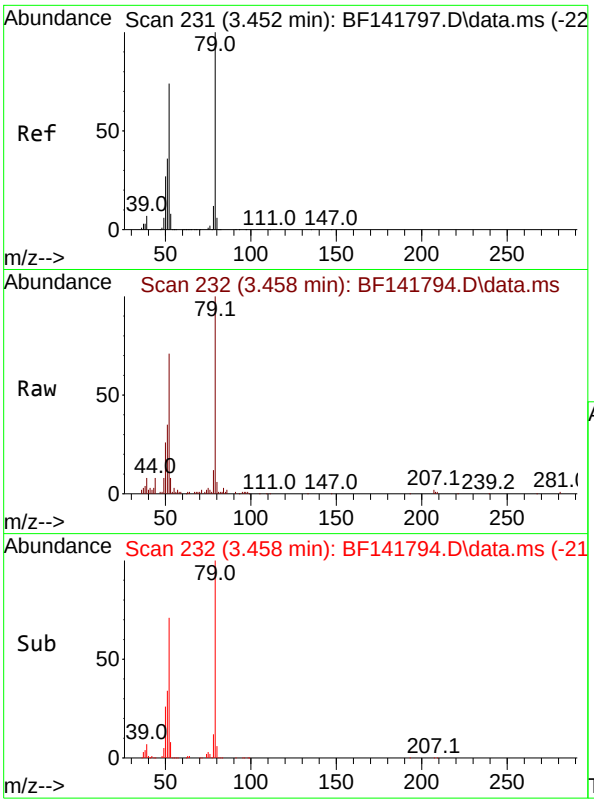


#2
1,4-Dioxane
Concen: 5.391 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

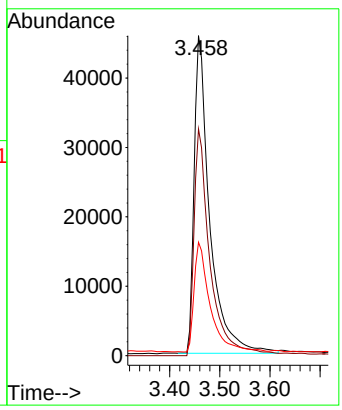
Tgt Ion: 79 Resp: 9872

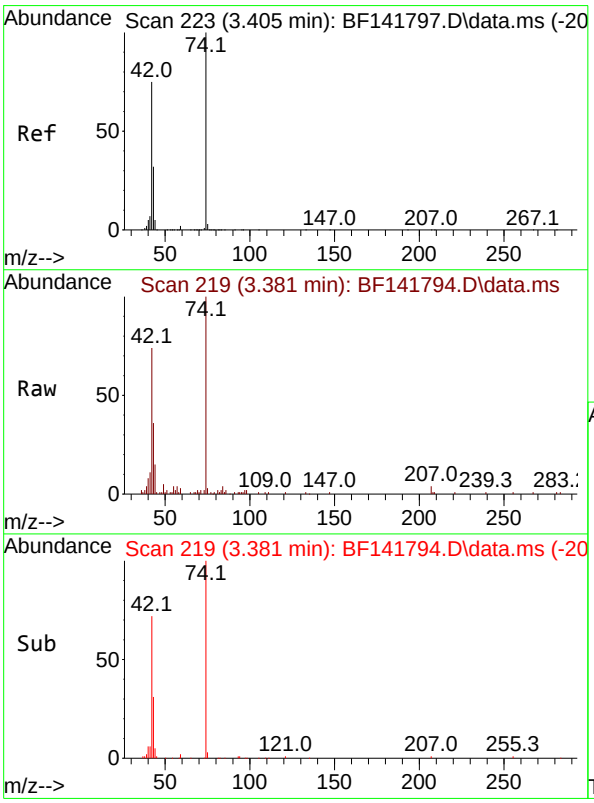
Ion	Ratio	Lower	Upper
79	100		
52	70.9	59.0	88.4
51	35.5	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

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

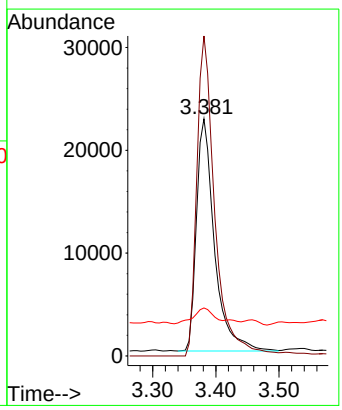


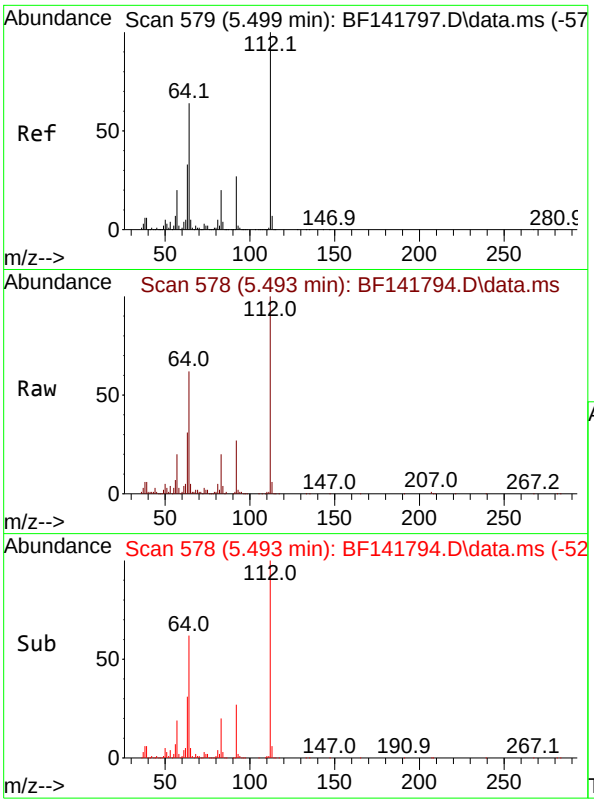


#4
n-Nitrosodimethylamine
Concen: 4.663 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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#

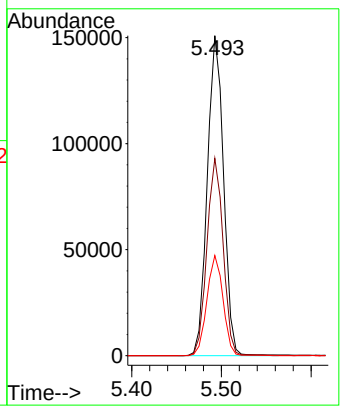




#5
2-Fluorophenol
Concen: 10.766 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:112 Resp: 18980

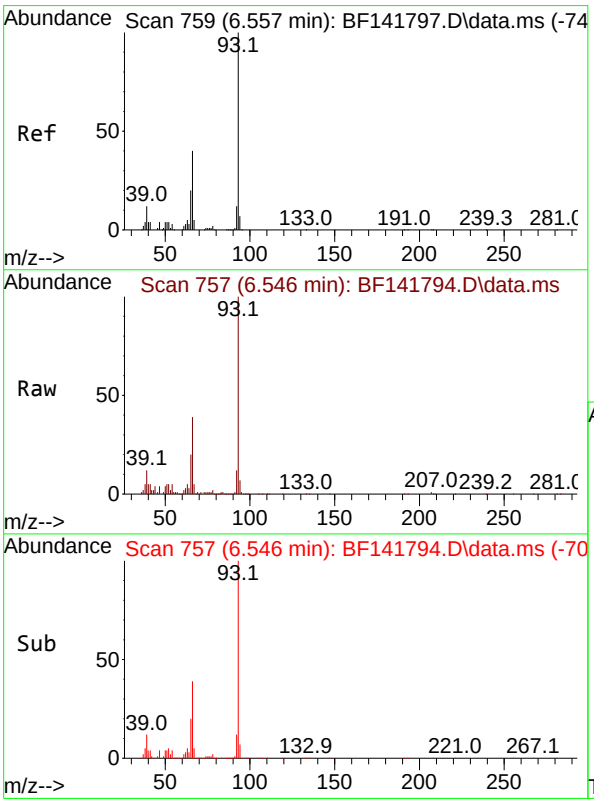
Ion	Ratio	Lower	Upper
112	100		
64	61.7	51.3	76.9
63	31.3	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

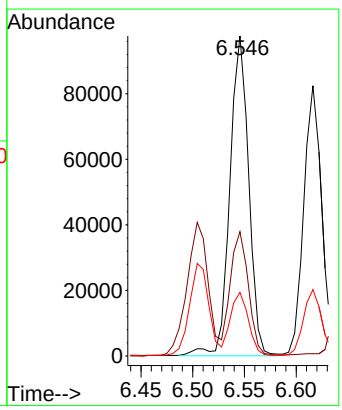
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

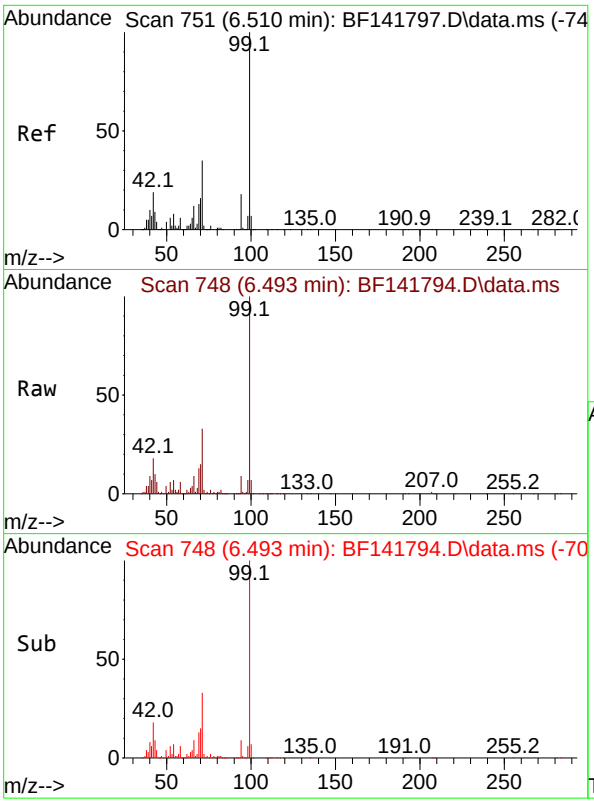


#6
Aniline
Concen: 5.180 ng m
RT: 6.546 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

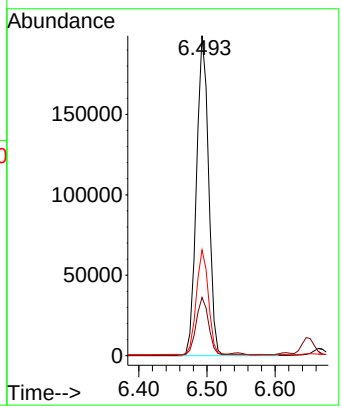




#7
Phenol-d6
Concen: 10.737 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 99 Resp: 24639

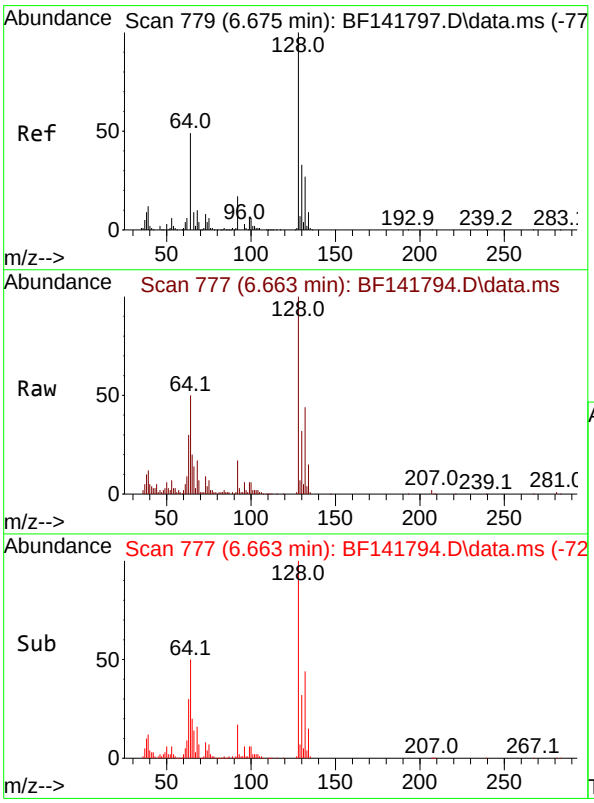
Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.2	22.8
71	33.0	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

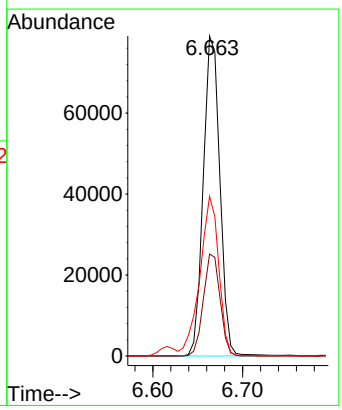
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

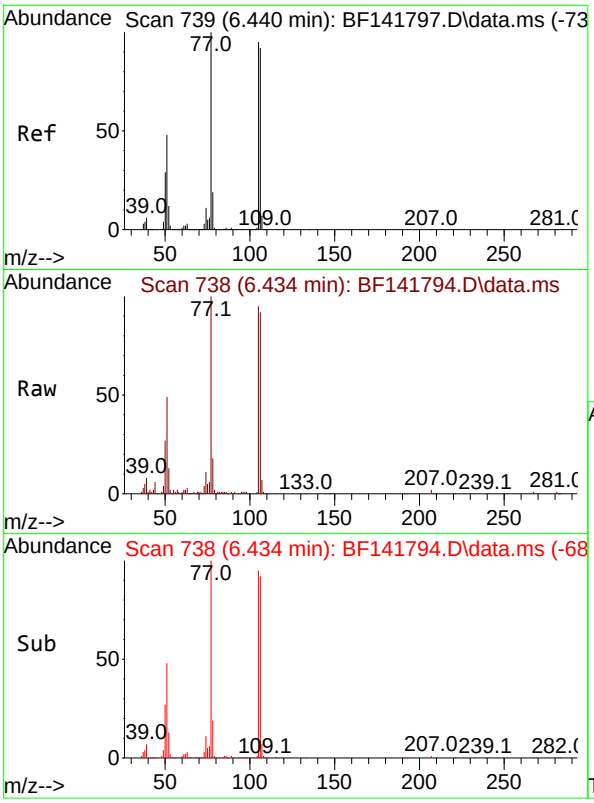


#8
2-Chlorophenol
Concen: 5.324 ng
RT: 6.663 min Scan# 777
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

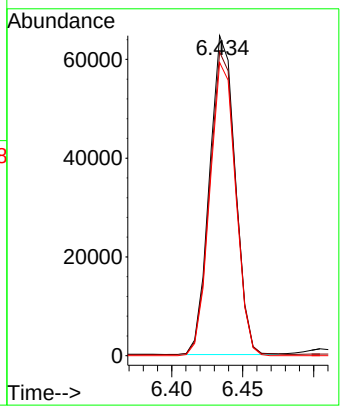




#9
Benzaldehyde
Concen: 6.070 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 8102

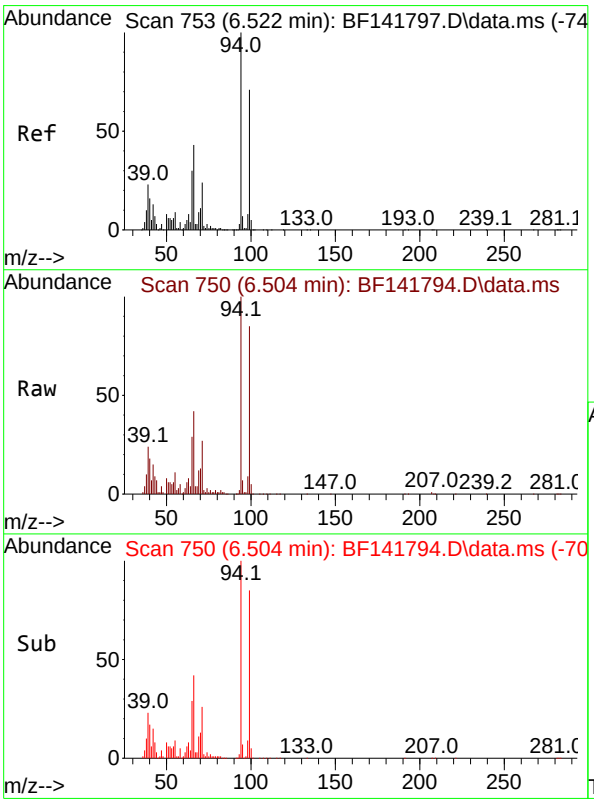
Ion	Ratio	Lower	Upper
77	100		
105	94.9	75.3	115.3
106	91.6	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

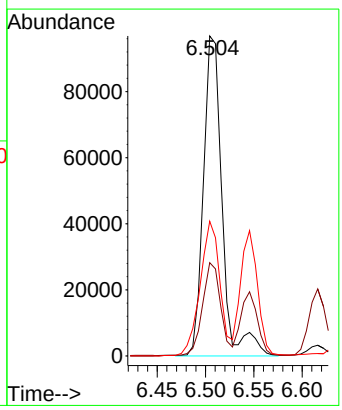
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

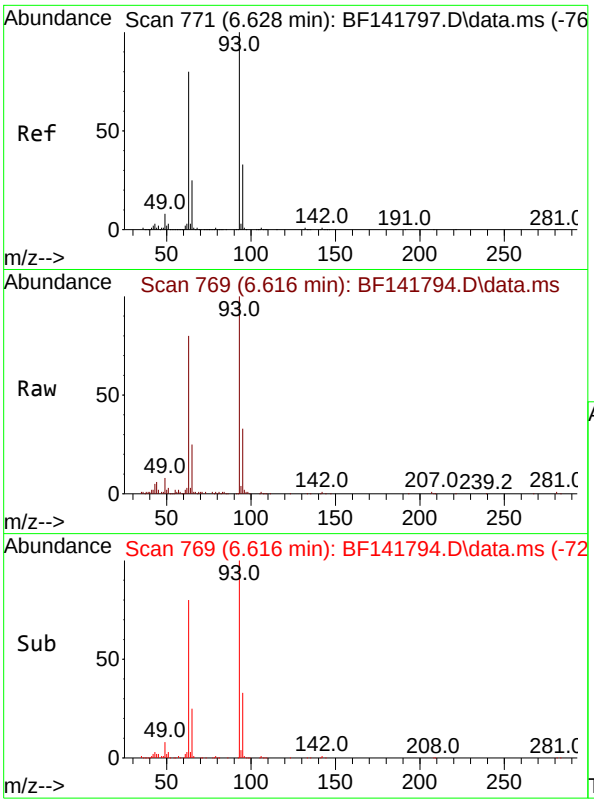


#10
Phenol
Concen: 5.339 ng m
RT: 6.504 min Scan# 750
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

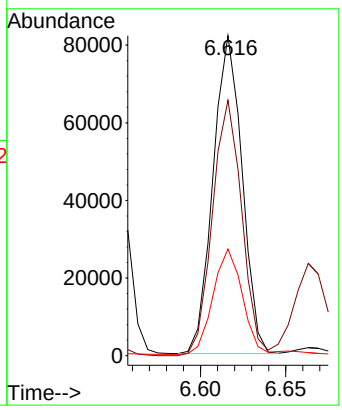




#11
bis(2-Chloroethyl)ether
Concen: 5.187 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 93 Resp: 9695

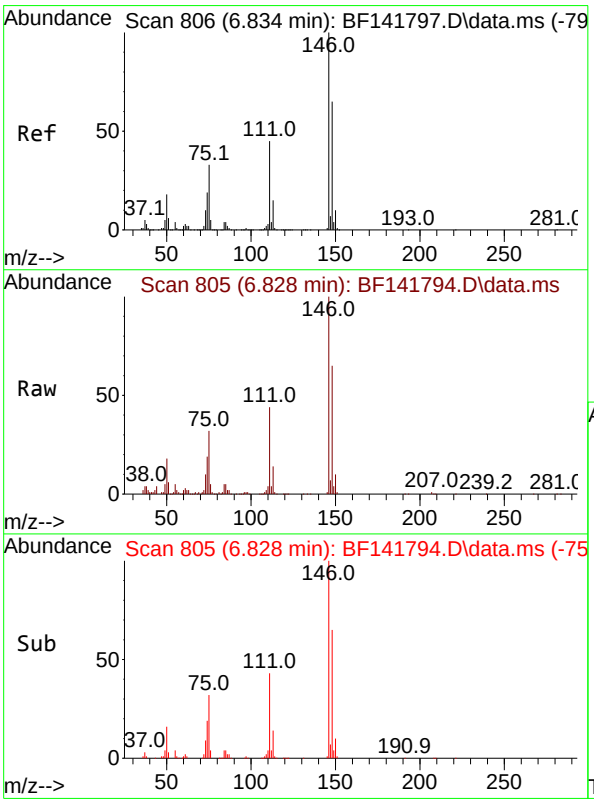
Ion	Ratio	Lower	Upper
93	100		
63	79.8	59.3	99.3
95	33.3	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

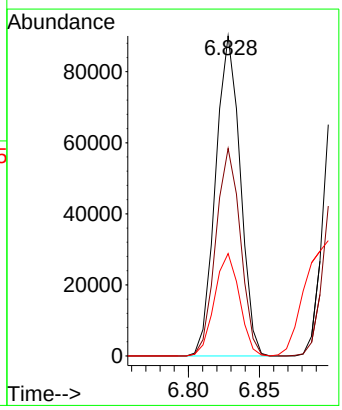
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

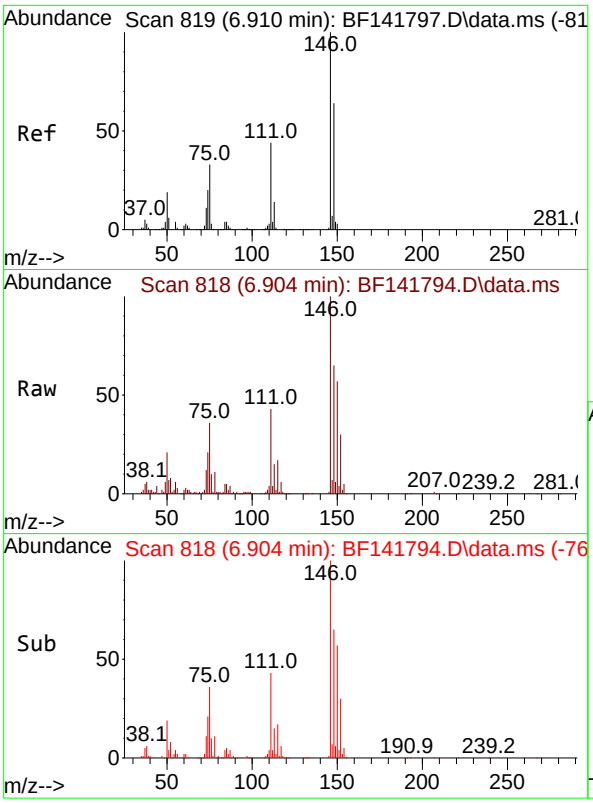


#12
1,3-Dichlorobenzene
Concen: 5.321 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

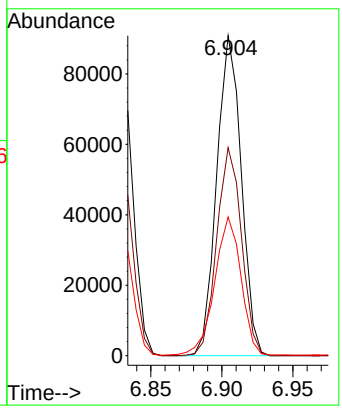




#13
1,4-Dichlorobenzene
Concen: 5.315 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:146 Resp: 10938

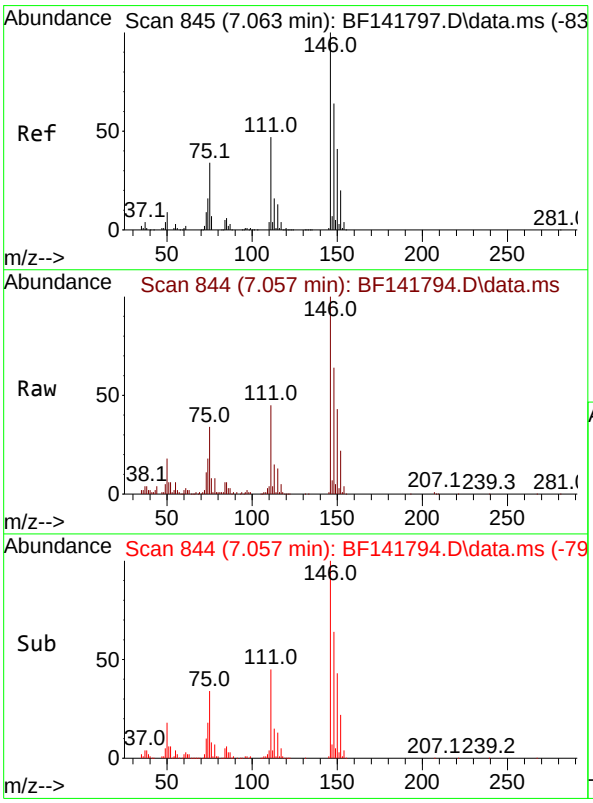
Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.2
111	43.4	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

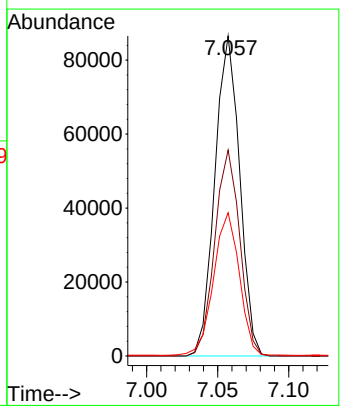
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

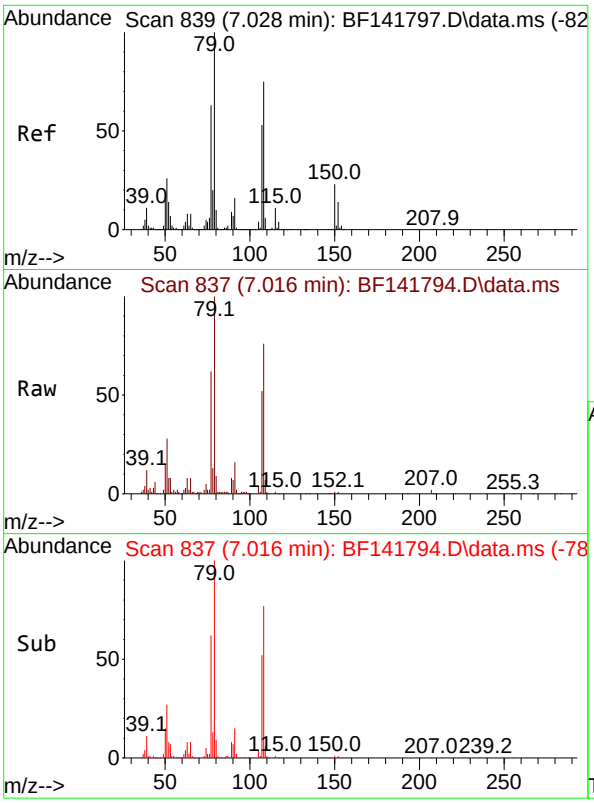


#14
1,2-Dichlorobenzene
Concen: 5.468 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

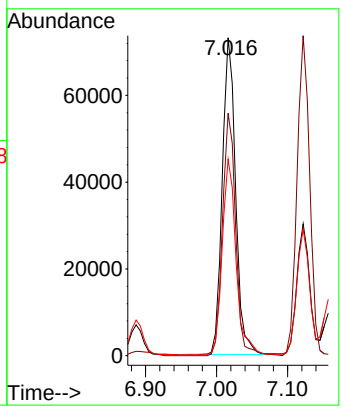




#15
Benzyl Alcohol
Concen: 5.172 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 79 Resp: 9484

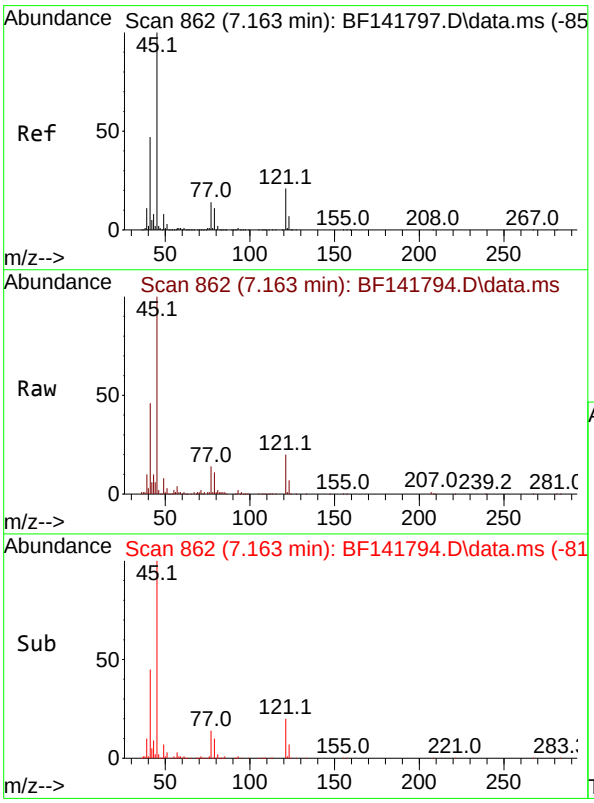
Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.2	90.2
77	61.8	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

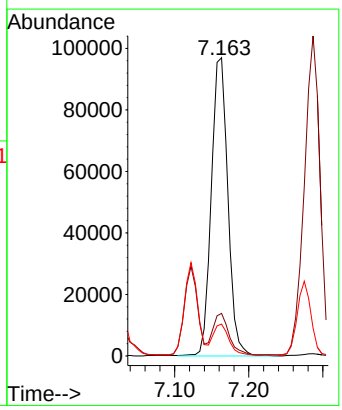
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

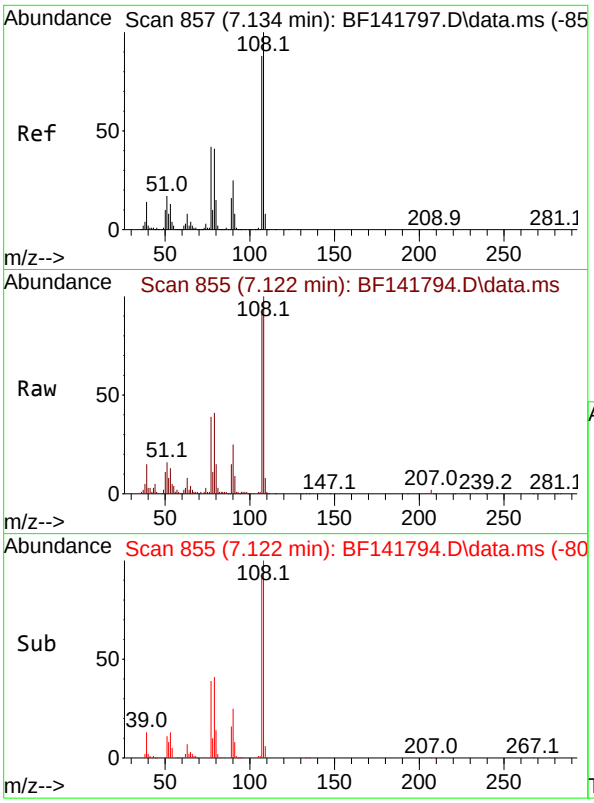


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.303 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

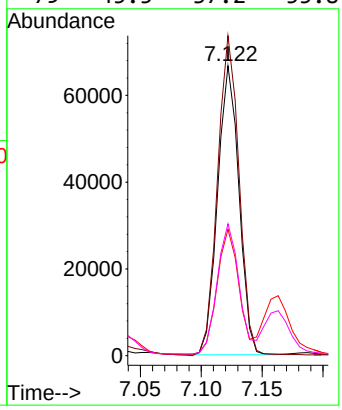




#17
2-Methylphenol
Concen: 5.165 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 8130

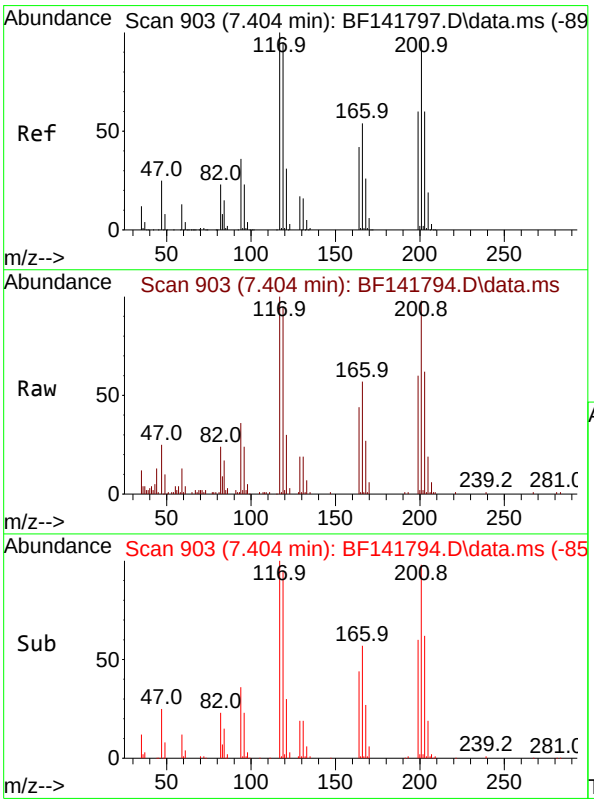
Ion	Ratio	Lower	Upper
107	100		
108	110.4	90.6	135.8
77	43.6	37.7	56.5
79	45.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

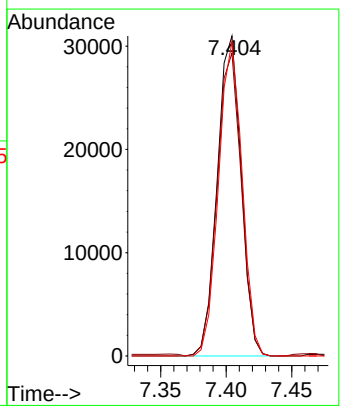
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

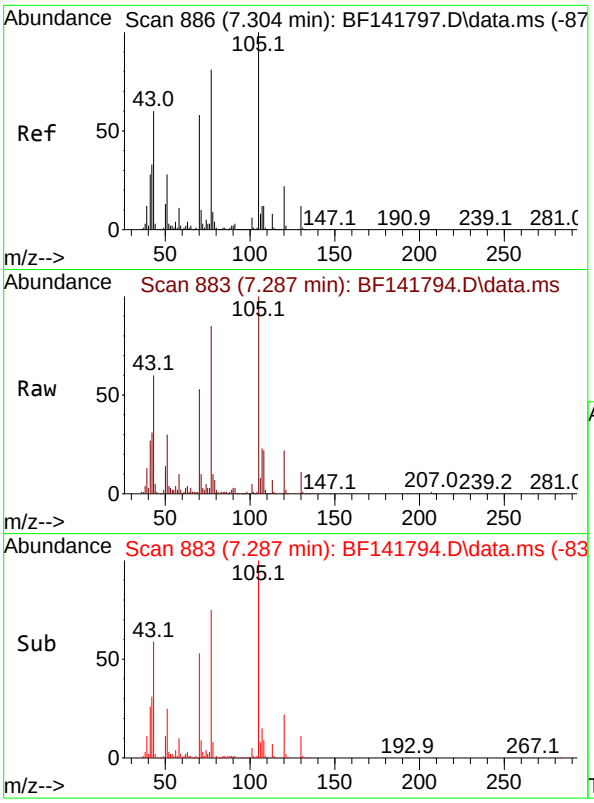


#18
Hexachloroethane
Concen: 5.110 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

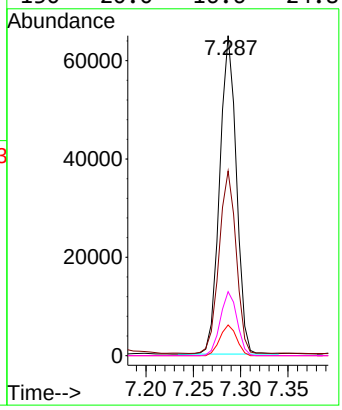




#19
n-Nitroso-di-n-propylamine
Concen: 5.300 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 70 Resp: 7994

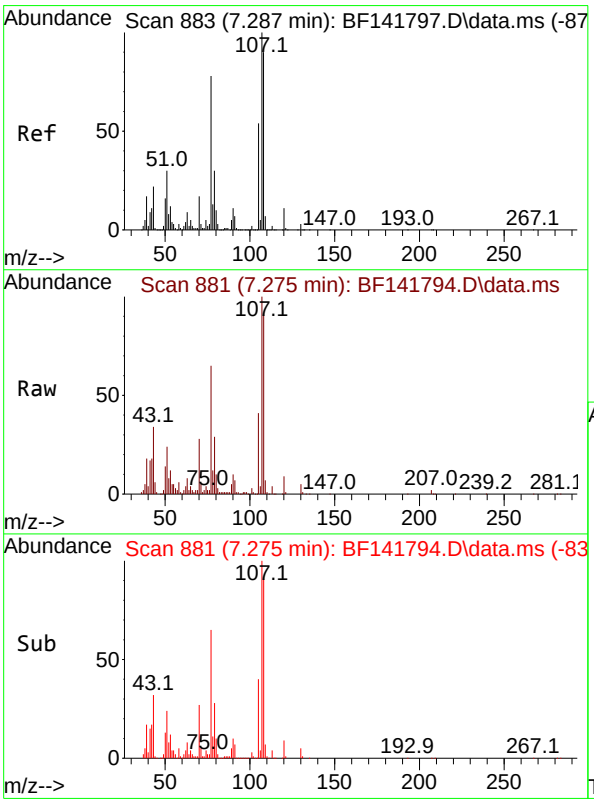
Ion	Ratio	Lower	Upper
70	100		
42	57.7	45.4	68.0
101	9.6	7.8	11.8
130	20.0	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

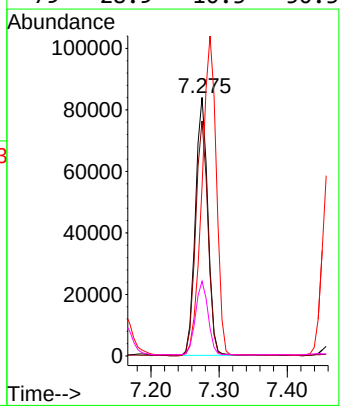
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

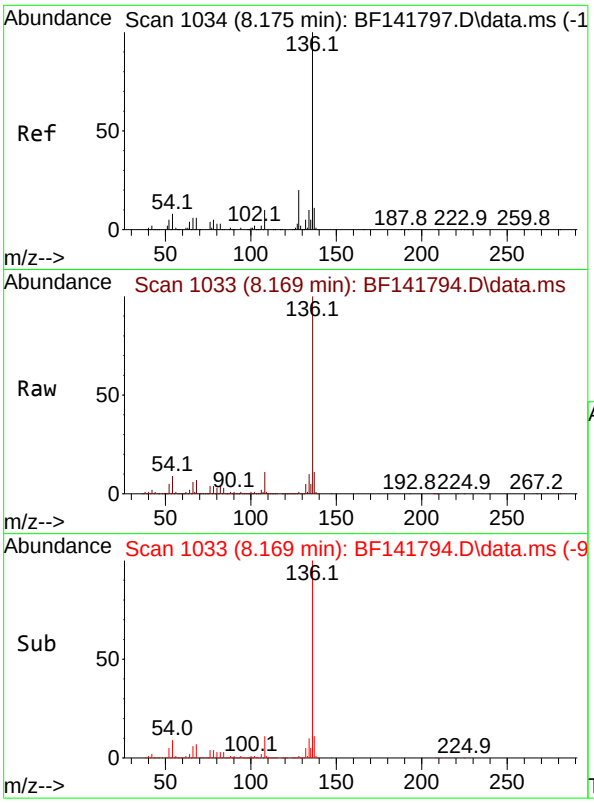


#20
3+4-Methylphenols
Concen: 5.412 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

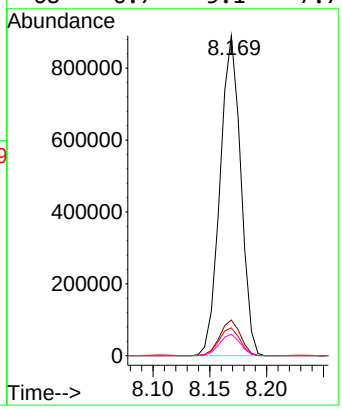




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:136 Resp: 112807

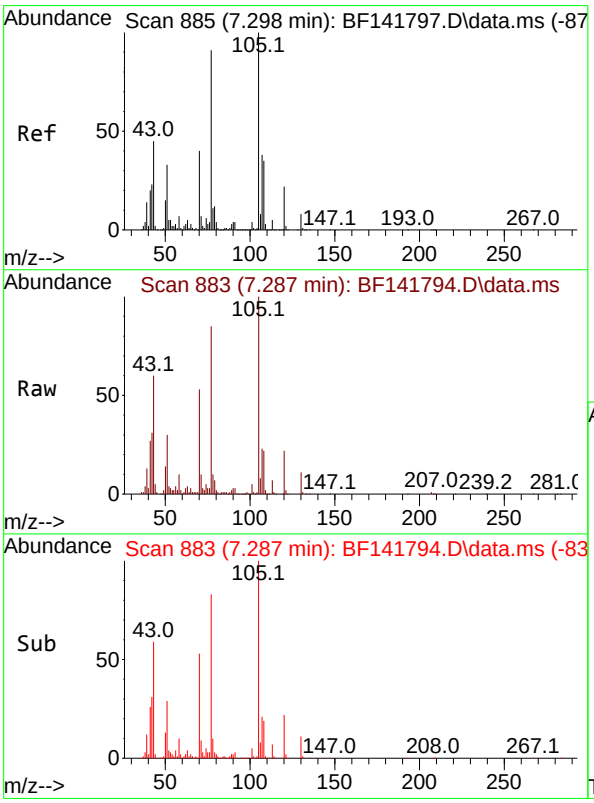
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.7	6.9	10.3
68	6.7	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

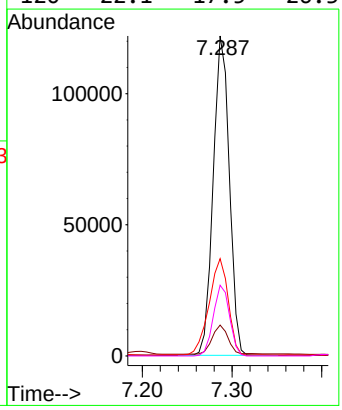
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

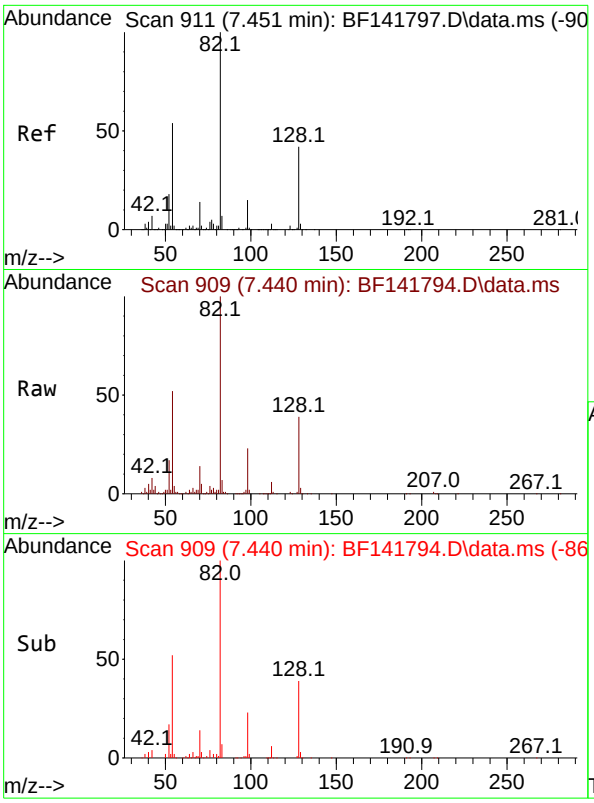


#22
Acetophenone
Concen: 5.537 ng
RT: 7.287 min Scan# 883
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

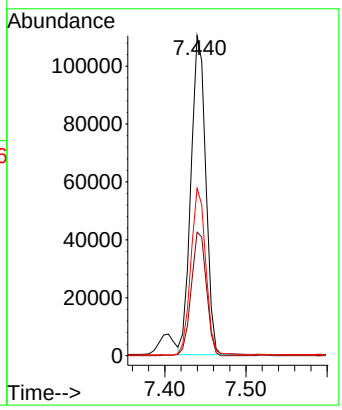




#23
Nitrobenzene-d5
Concen: 7.929 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 82 Resp: 13994(

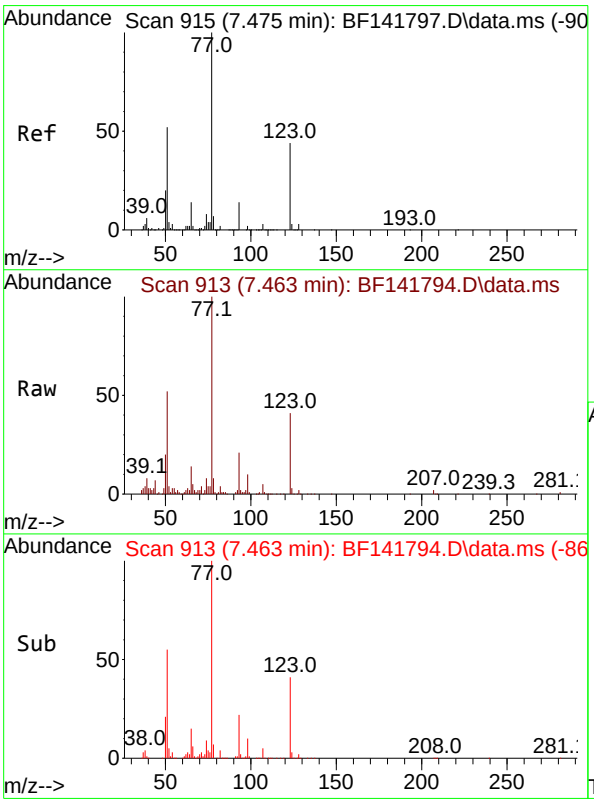
Ion	Ratio	Lower	Upper
82	100		
128	38.6	33.5	50.3
54	52.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

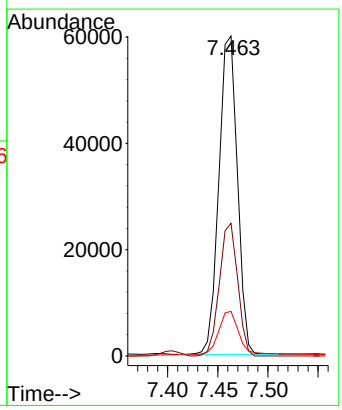
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

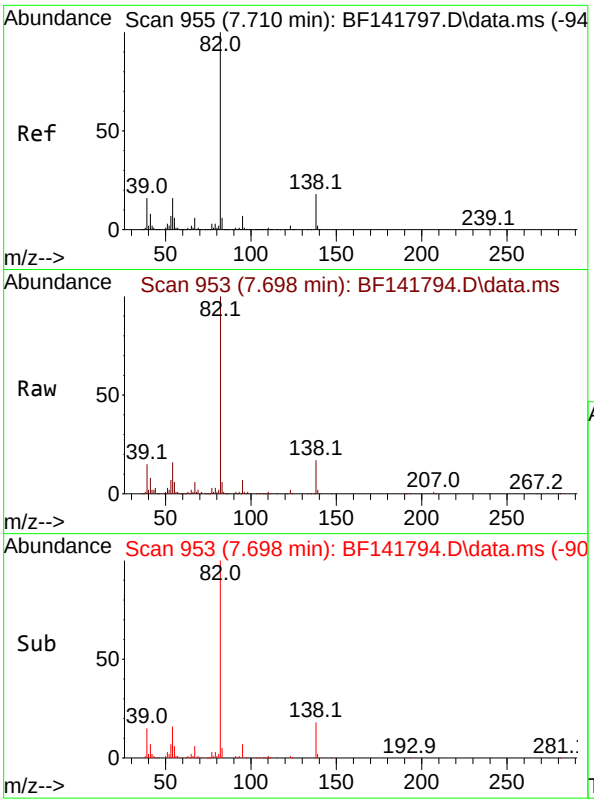


#24
Nitrobenzene
Concen: 4.071 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

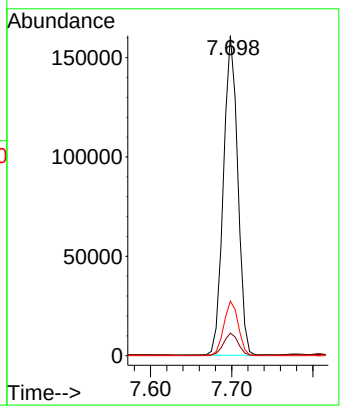




#25
Isophorone
Concen: 5.221 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 82 Resp: 19796

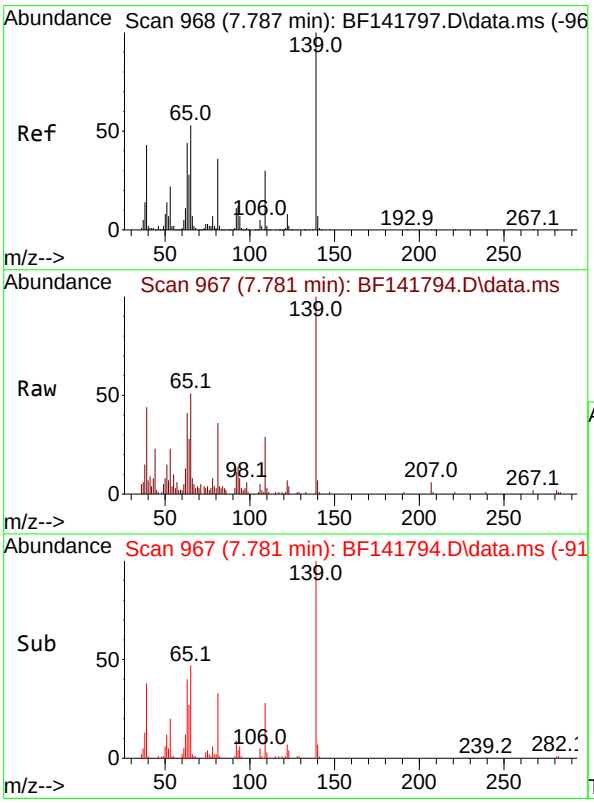
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.8
138	17.0	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

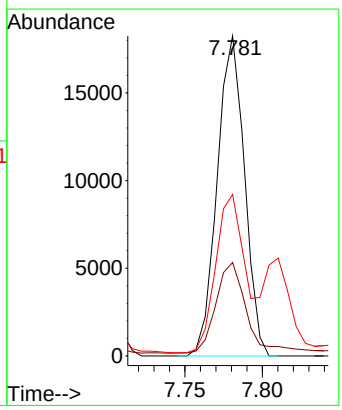
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

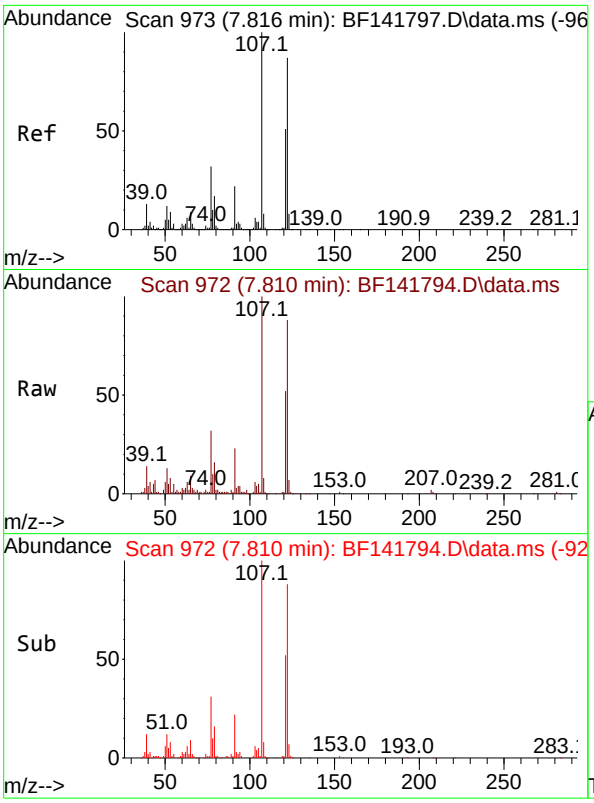


#26
2-Nitrophenol
Concen: 6.947 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

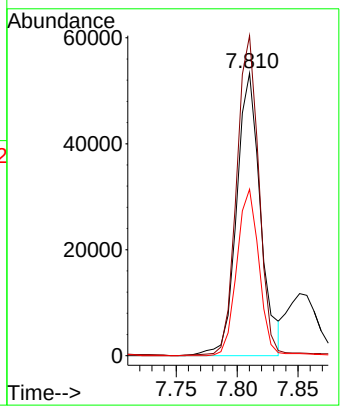




#27
2,4-Dimethylphenol
Concen: 5.211 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:122 Resp: 7263

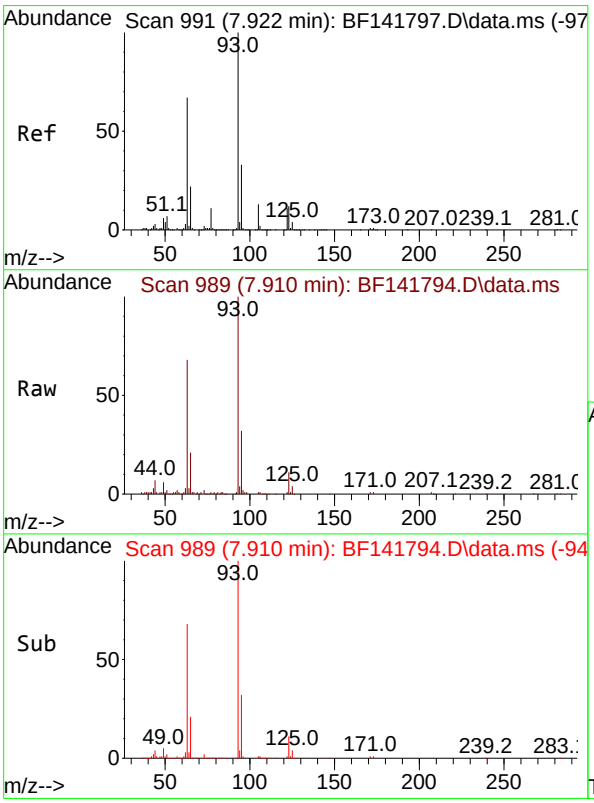
Ion	Ratio	Lower	Upper
122	100		
107	113.3	92.5	138.7
121	59.0	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

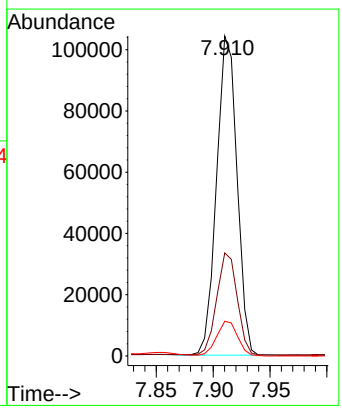
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

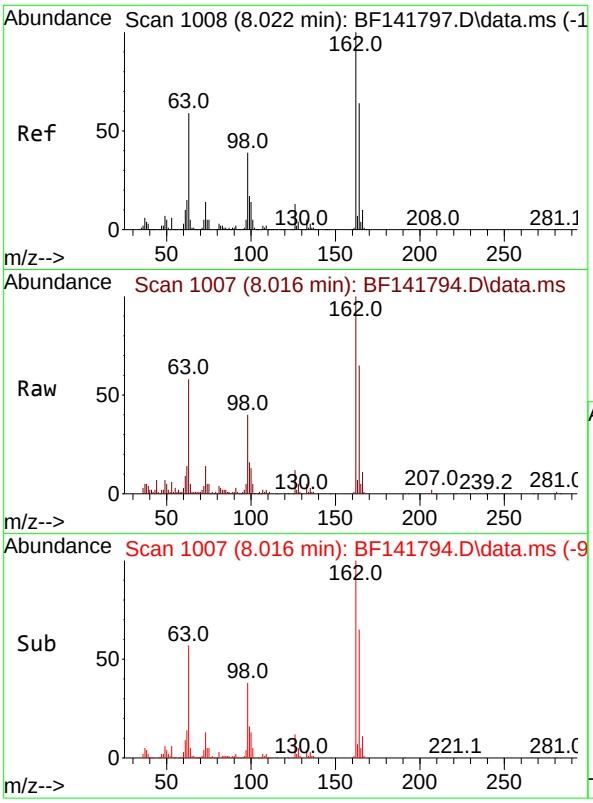


#28
bis(2-Chloroethoxy)methane
Concen: 5.395 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

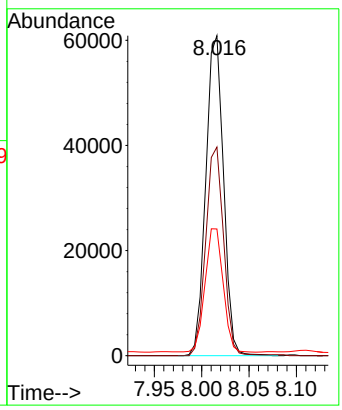




#29
2,4-Dichlorophenol
Concen: 4.914 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:162 Resp: 7900

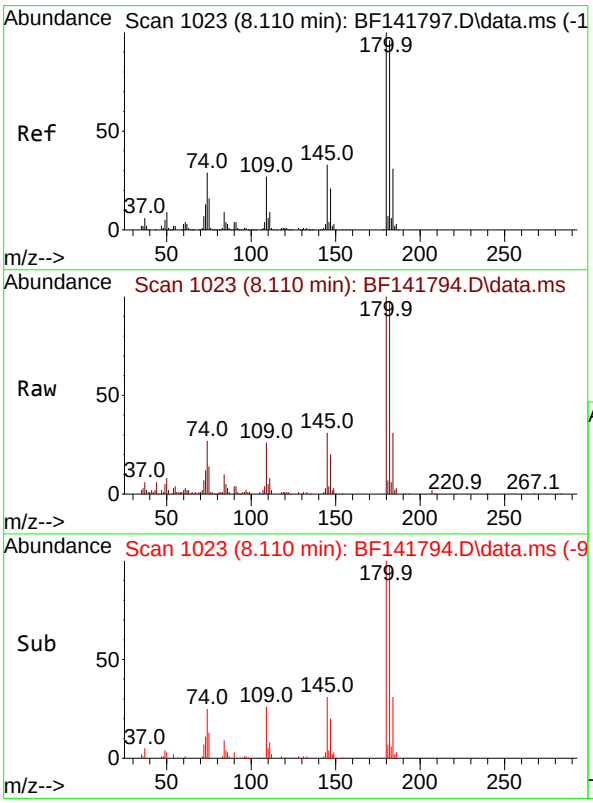
Ion	Ratio	Lower	Upper
162	100		
164	65.2	44.3	84.3
98	39.6	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

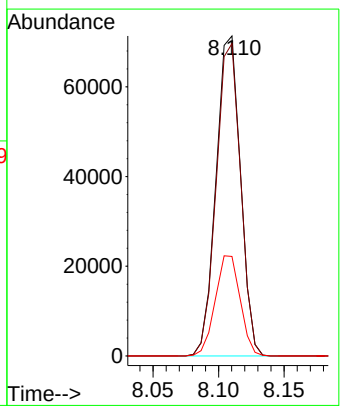
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

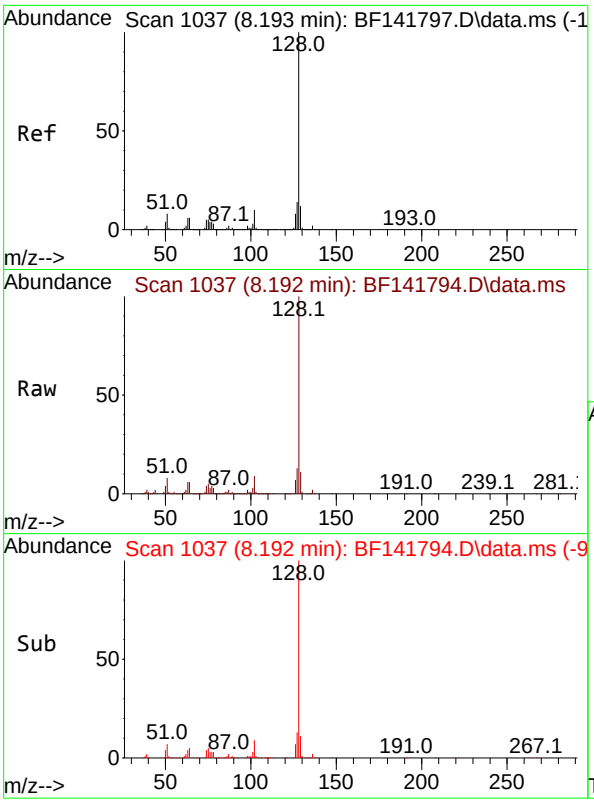


#30
1,2,4-Trichlorobenzene
Concen: 5.244 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

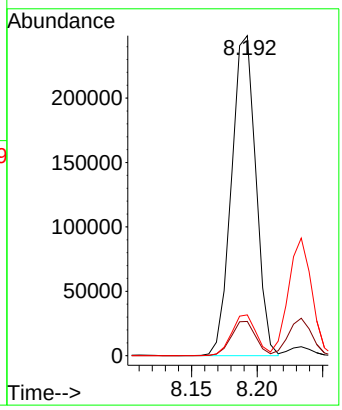




#31
Naphthalene
Concen: 5.546 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:128 Resp: 32154

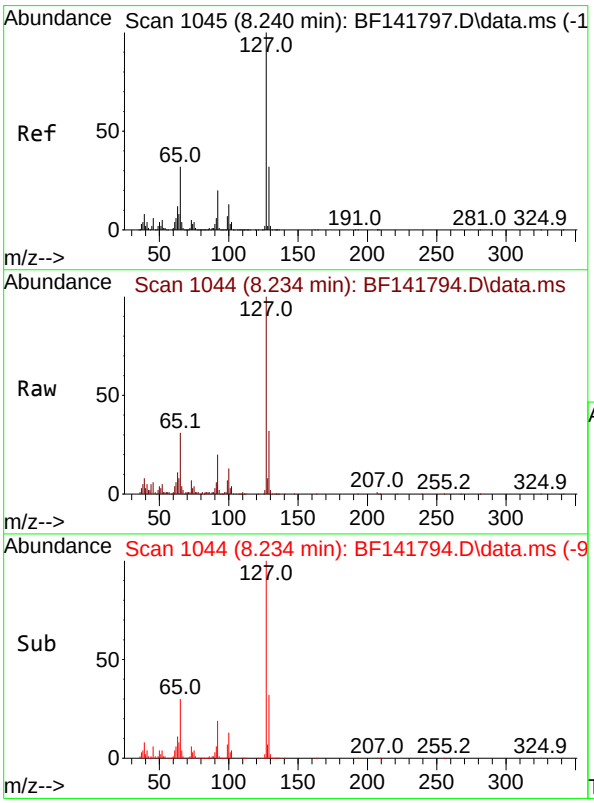
Ion	Ratio	Lower	Upper
128	100		
129	10.7	9.2	13.8
127	12.8	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

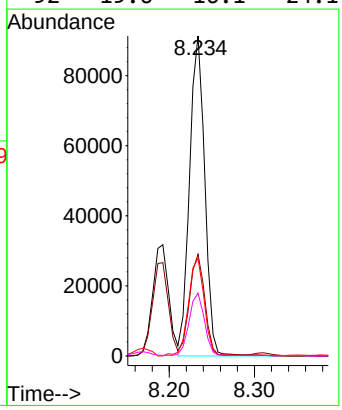
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

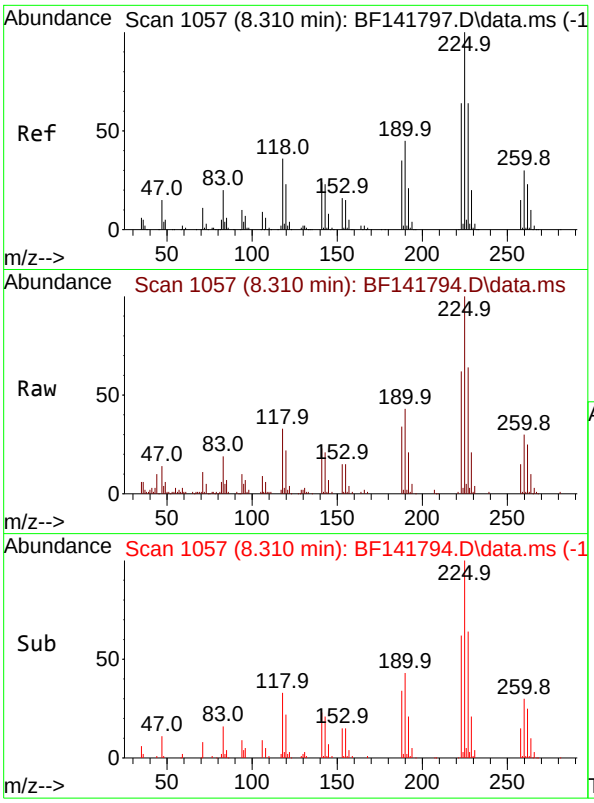


#33
4-Chloroaniline
Concen: 5.335 ng
RT: 8.234 min Scan# 1044
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

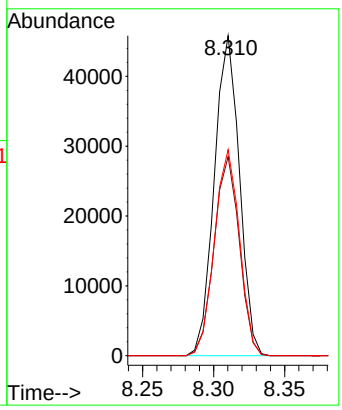




#34
Hexachlorobutadiene
Concen: 5.134 ng
RT: 8.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:225 Resp: 5620

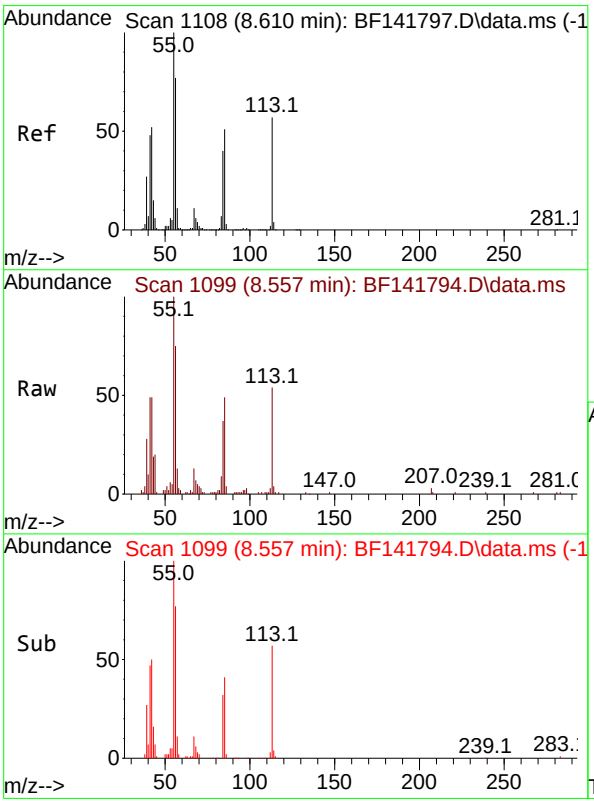
Ion	Ratio	Lower	Upper
225	100		
223	62.2	51.4	77.2
227	64.4	51.6	77.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

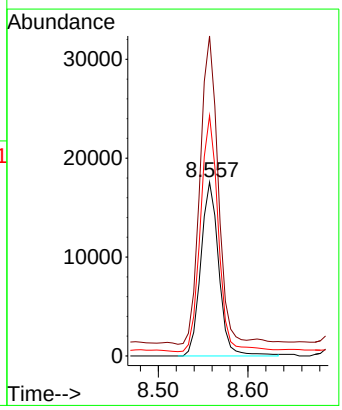
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

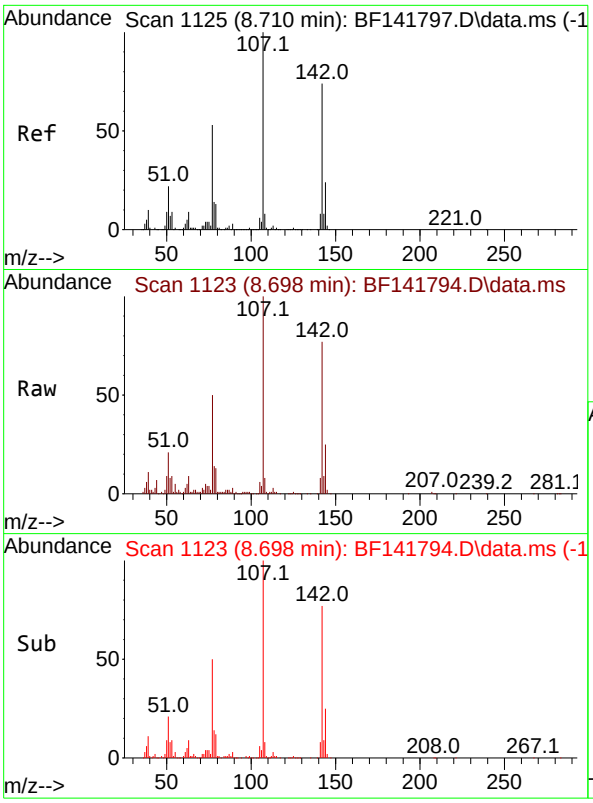


#35
Caprolactam
Concen: 4.946 ng
RT: 8.557 min Scan# 1099
Delta R.T. -0.053 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

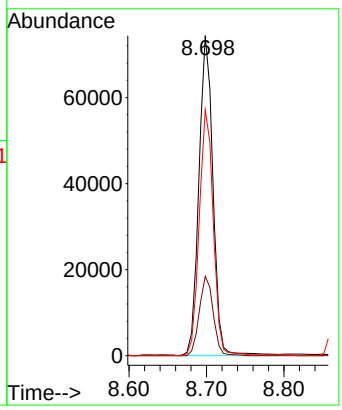




#36
4-Chloro-3-methylphenol
Concen: 5.262 ng
RT: 8.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:107 Resp: 9398

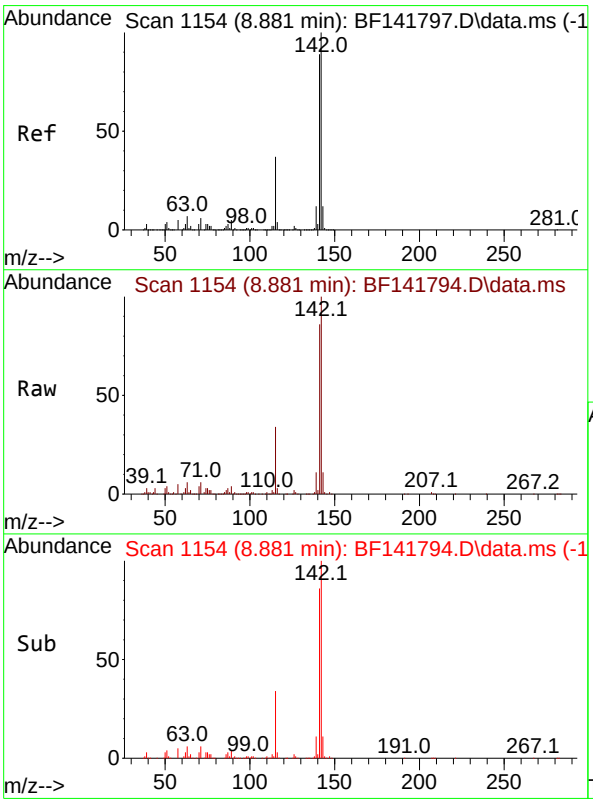
Ion	Ratio	Lower	Upper
107	100		
144	24.8	19.4	29.0
142	76.8	59.4	89.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

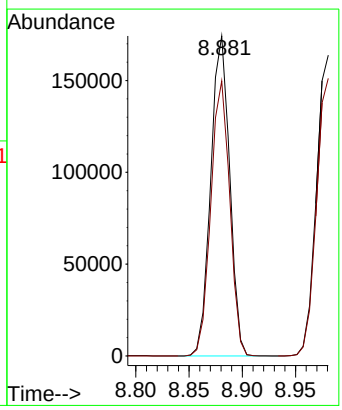
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

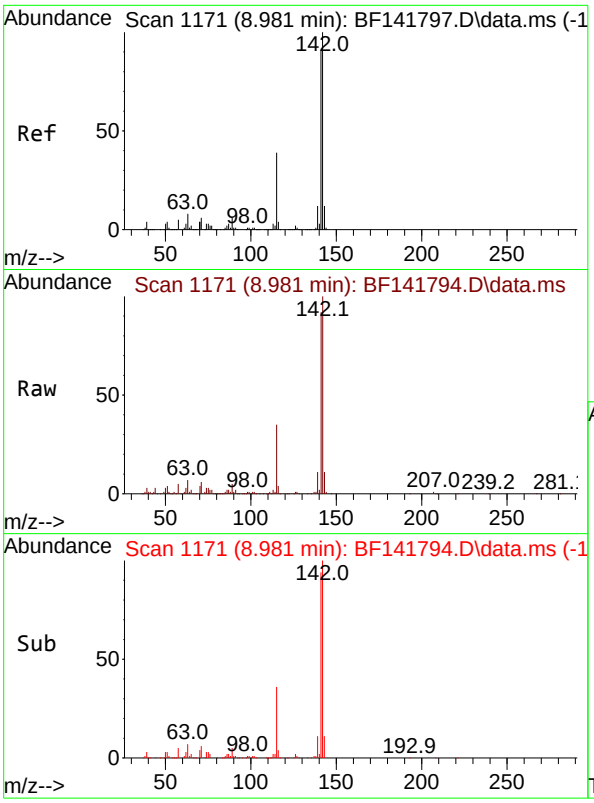


#37
2-Methylnaphthalene
Concen: 5.653 ng
RT: 8.881 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 214971

Ion	Ratio	Lower	Upper
142	100		
141	86.0	71.1	106.7

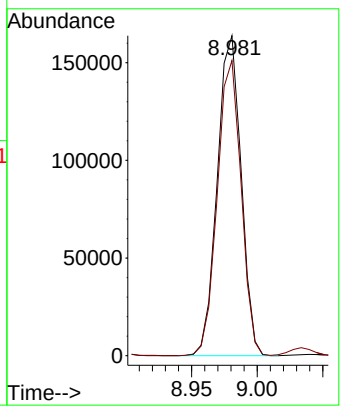




#38
1-Methylnaphthalene
Concen: 5.676 ng
RT: 8.981 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:142 Resp: 20709

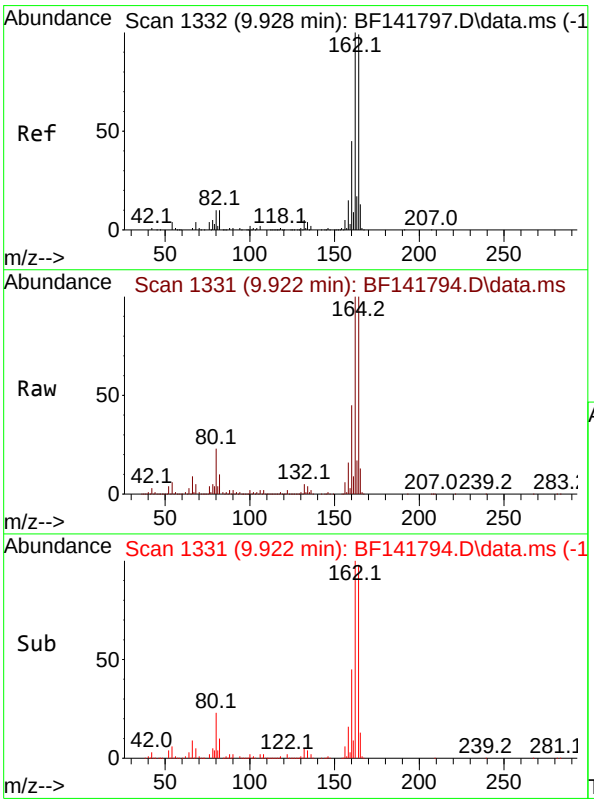
Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

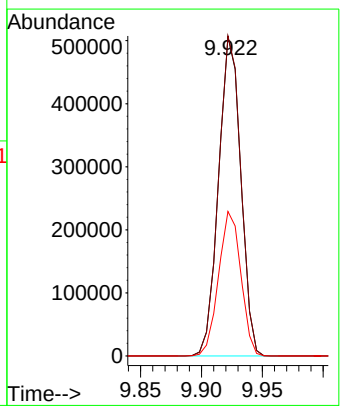
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

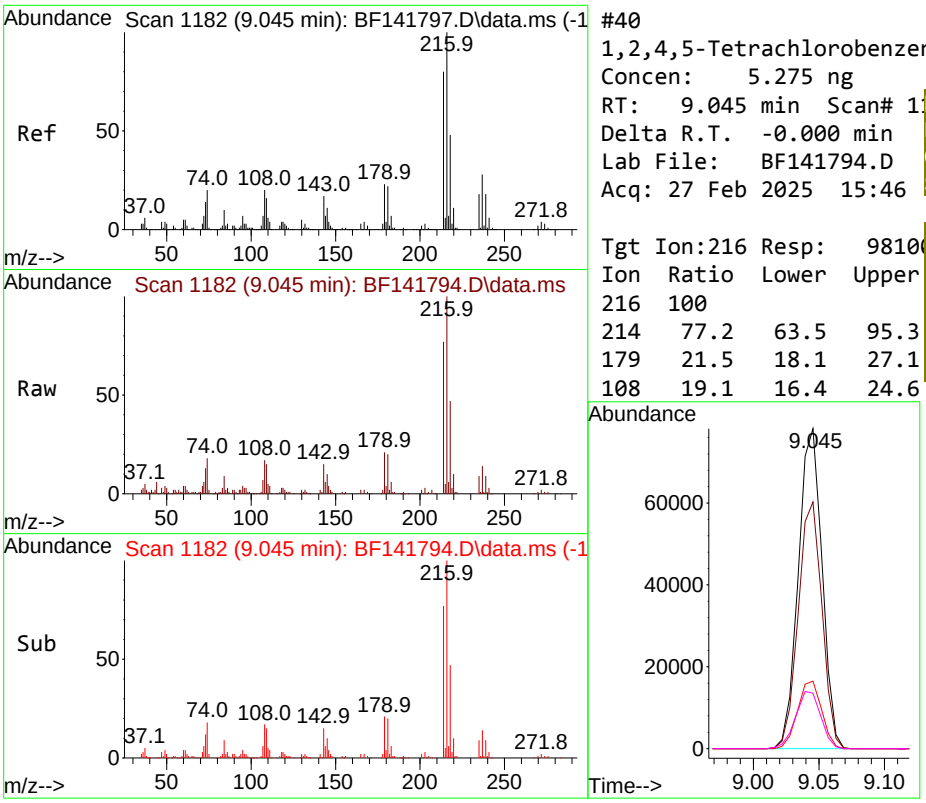


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

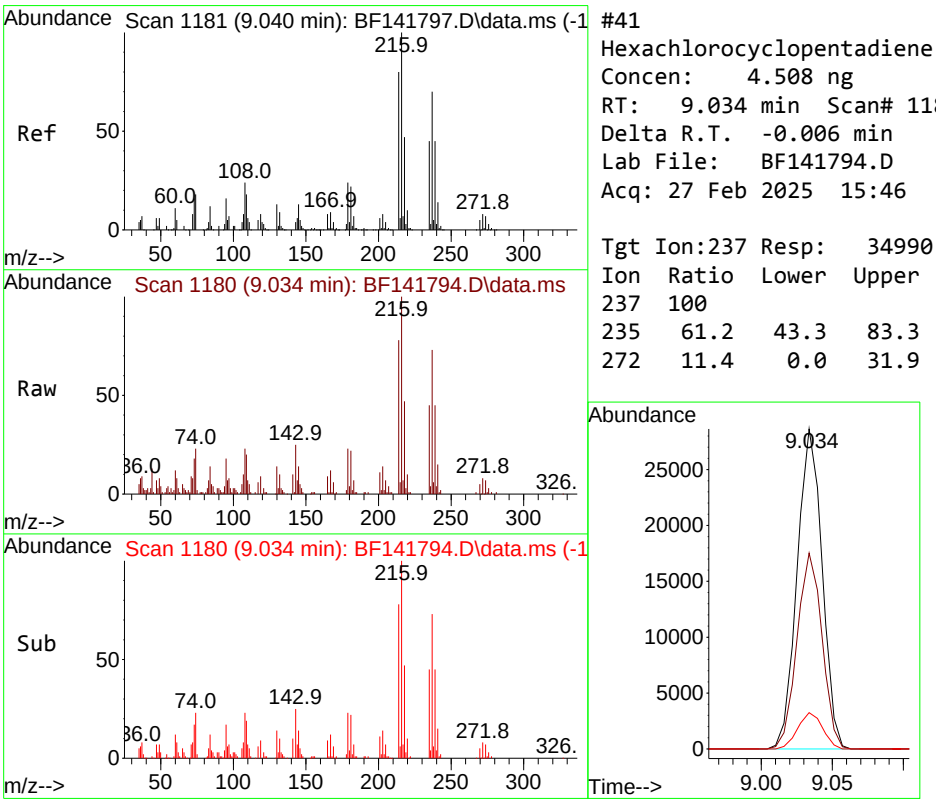
Tgt Ion:216 Resp: 9810

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

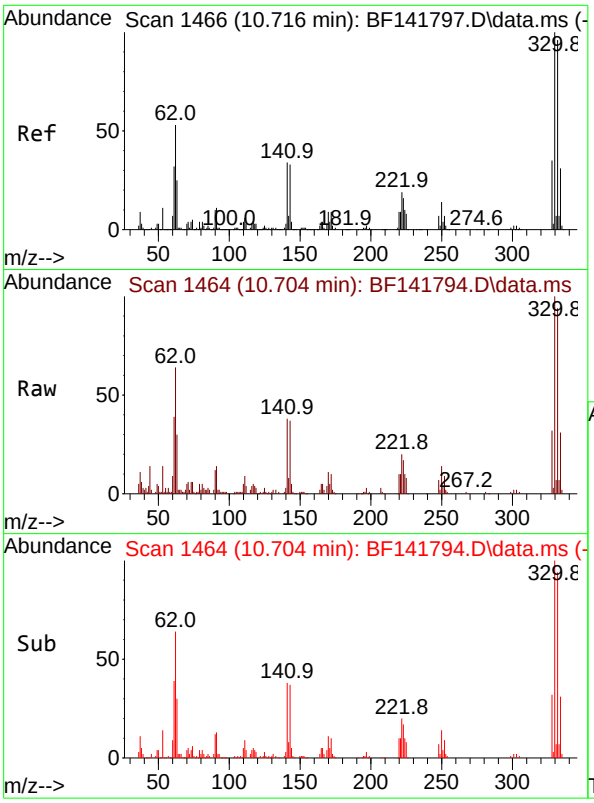
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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

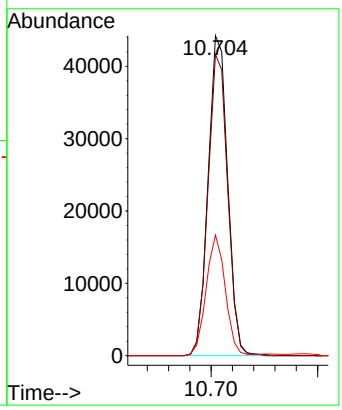
Ion	Ratio	Lower	Upper
237	100		
235	61.2	43.3	83.3
272	11.4	0.0	31.9



#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

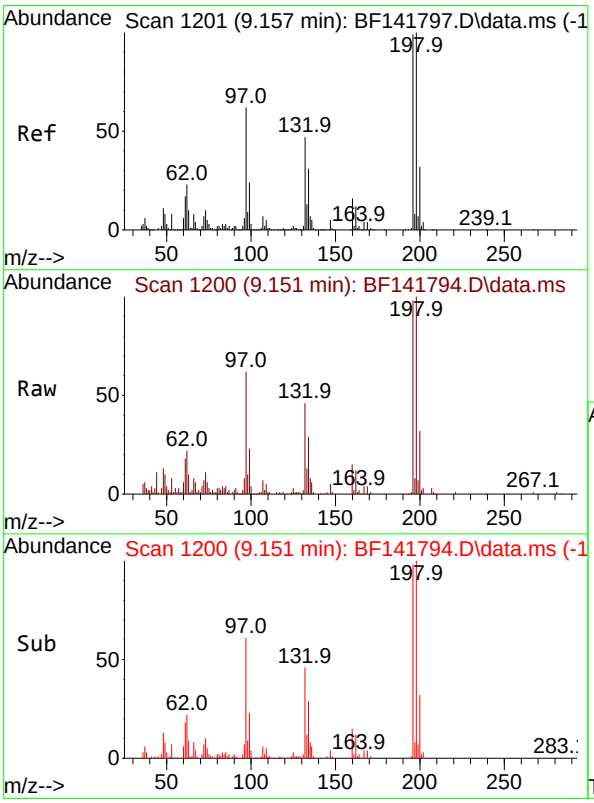
Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.6	115.0
141	37.1	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

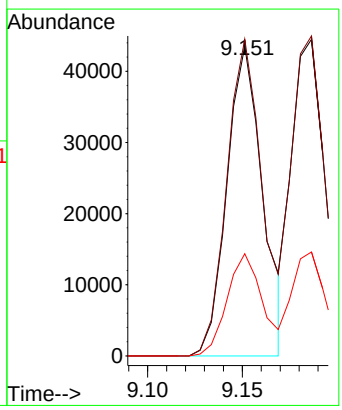
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

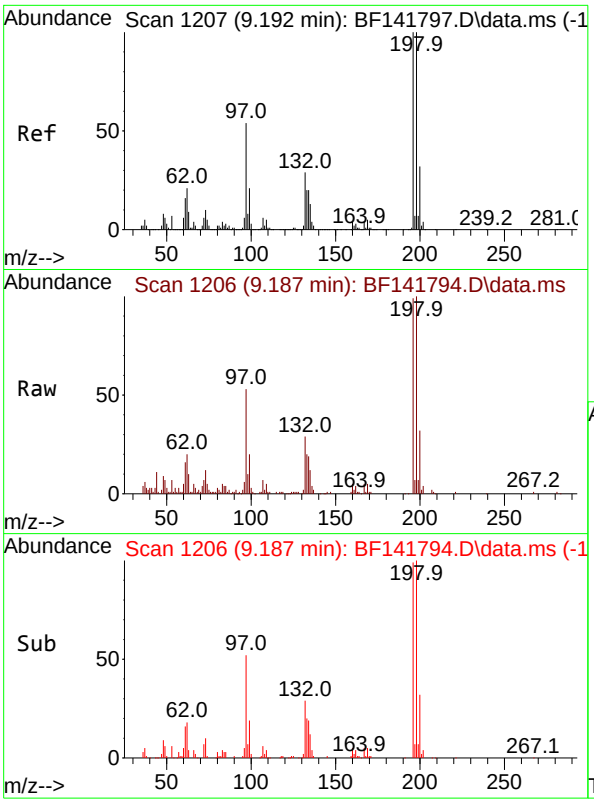


#43
2,4,6-Trichlorophenol
Concen: 4.753 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

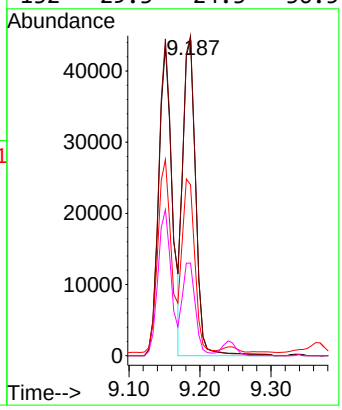




#44
2,4,5-Trichlorophenol
Concen: 4.706 ng
RT: 9.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:196 Resp: 5597

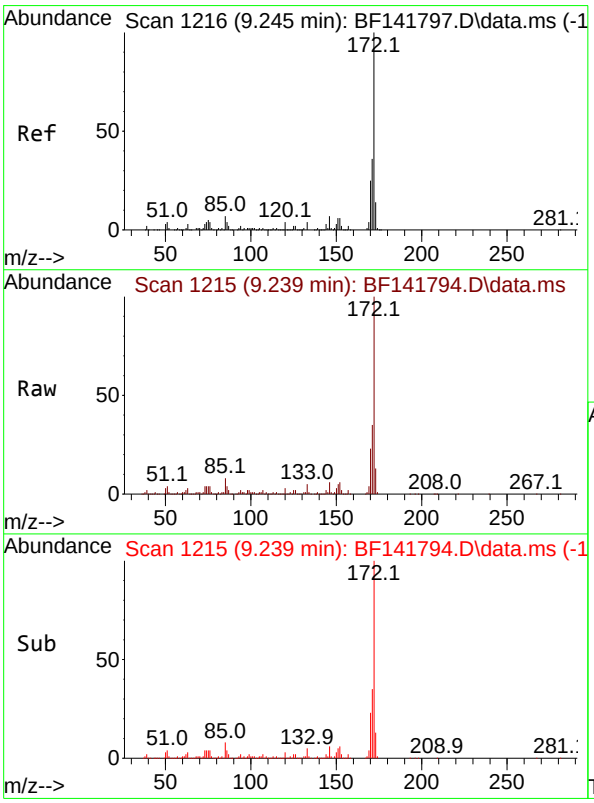
Ion	Ratio	Lower	Upper
196	100		
198	101.1	79.7	119.5
97	54.0	44.2	66.2
132	29.3	24.3	36.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

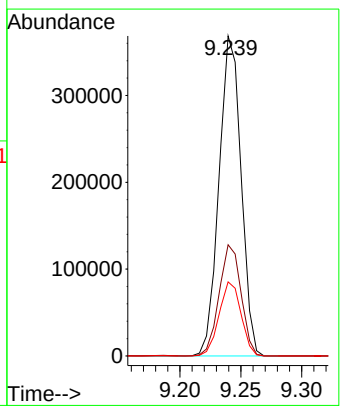
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

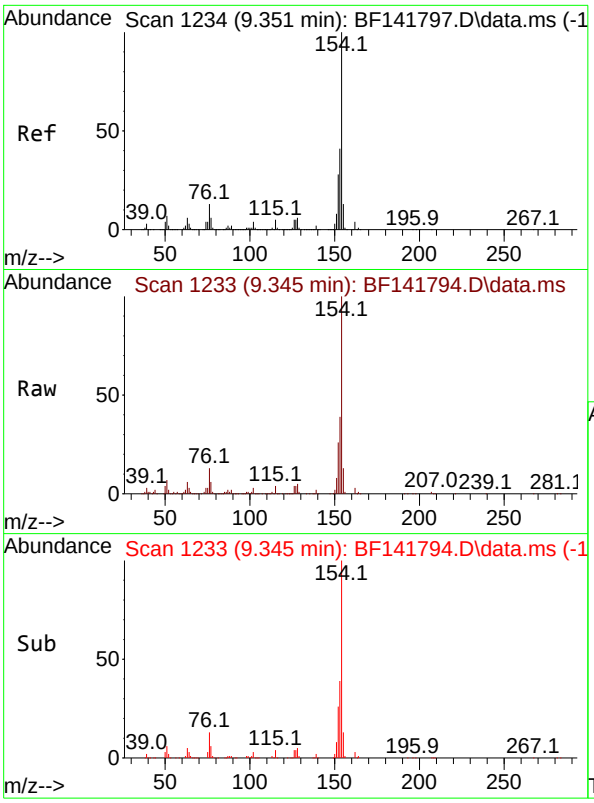


#45
2-Fluorobiphenyl
Concen: 11.570 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

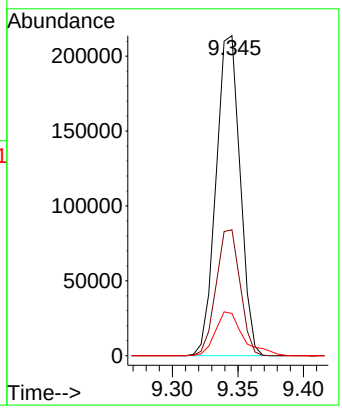




#46
1,1'-Biphenyl
Concen: 5.563 ng
RT: 9.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 27264

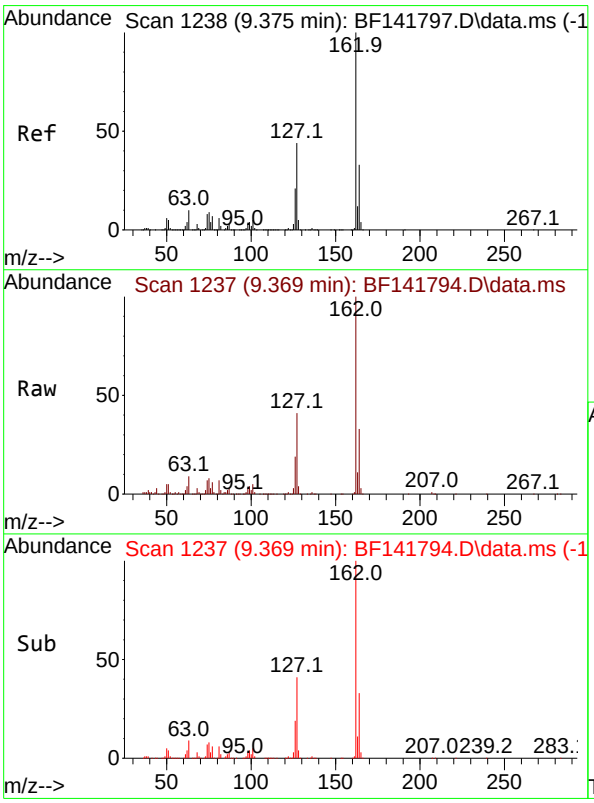
Ion	Ratio	Lower	Upper
154	100		
153	39.4	21.4	61.4
76	13.2	0.0	33.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

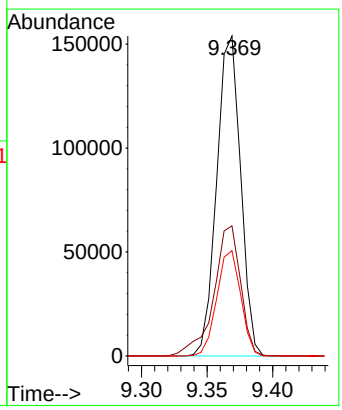
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

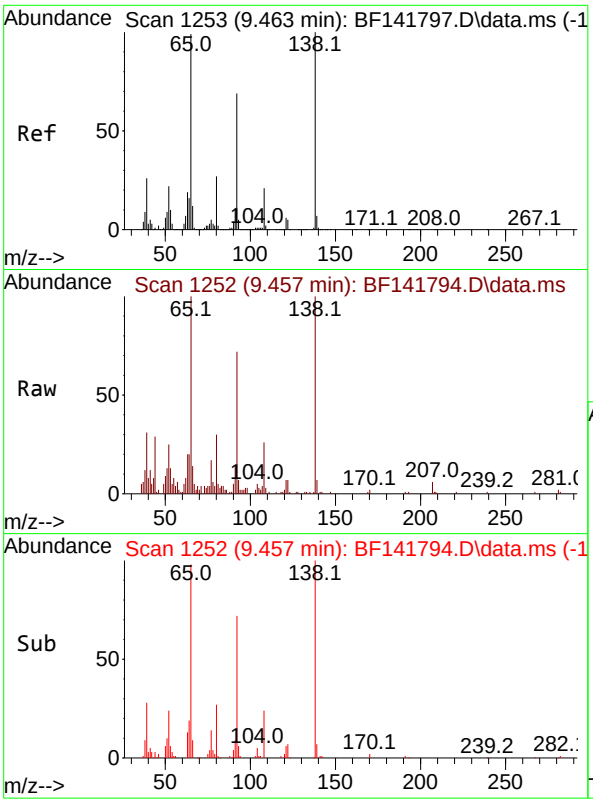


#47
2-Chloronaphthalene
Concen: 5.388 ng
RT: 9.369 min Scan# 1237
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

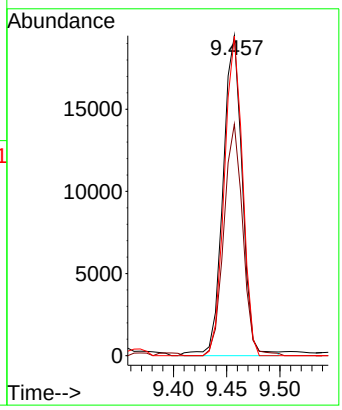




#48
2-Nitroaniline
Concen: 6.586 ng
RT: 9.457 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 65 Resp: 2446

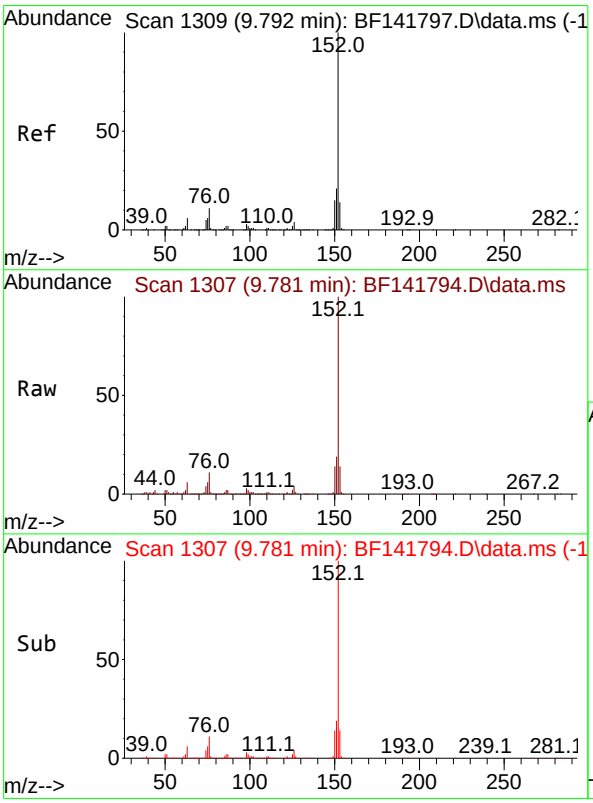
Ion	Ratio	Lower	Upper
65	100		
92	72.3	55.7	83.5
138	99.8	80.6	121.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

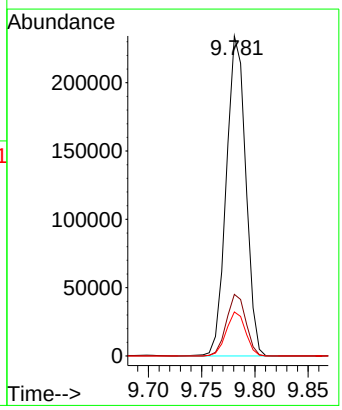
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

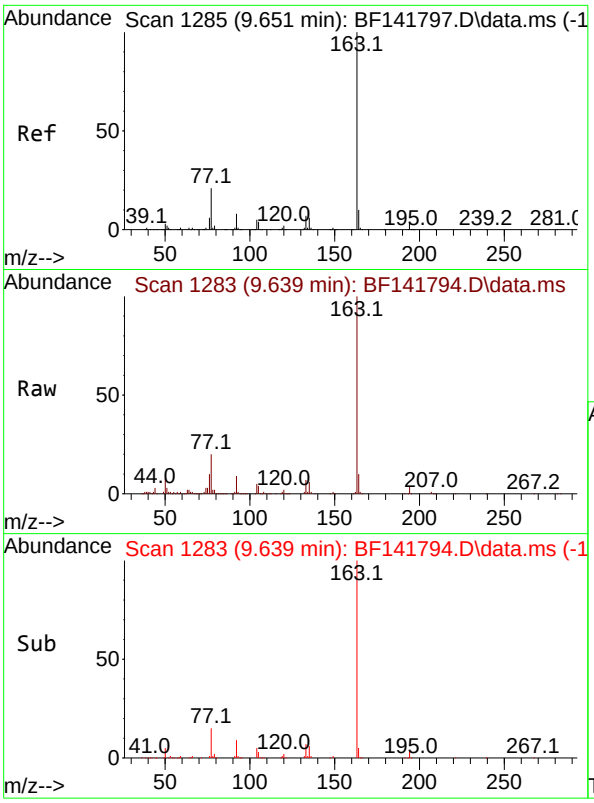


#49
Acenaphthylene
Concen: 5.481 ng
RT: 9.781 min Scan# 1307
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

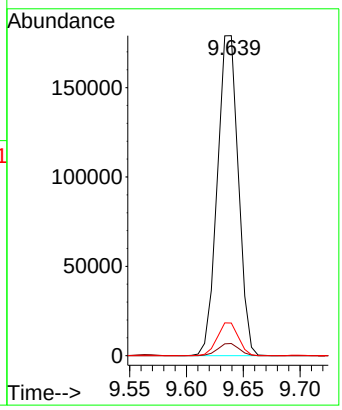




#50
Dimethylphthalate
Concen: 5.344 ng
RT: 9.639 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:163 Resp: 23042

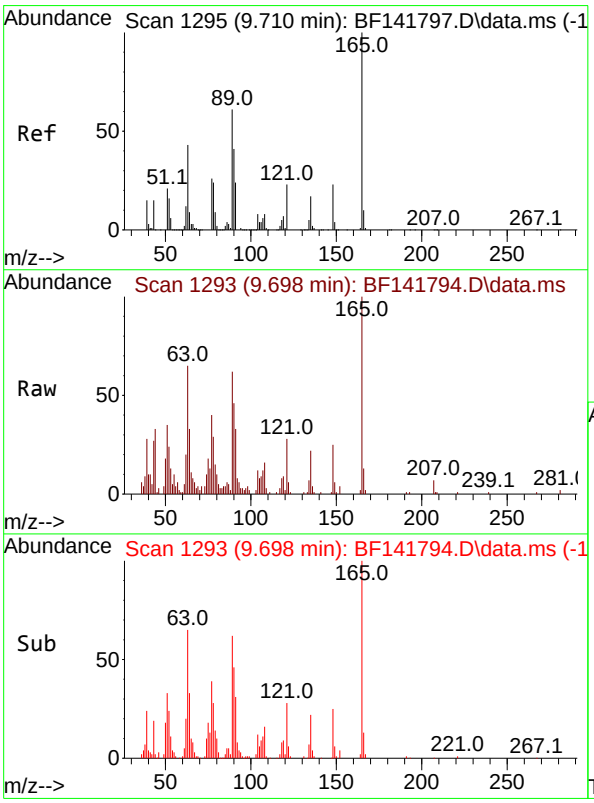
Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.1	4.7
164	10.2	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

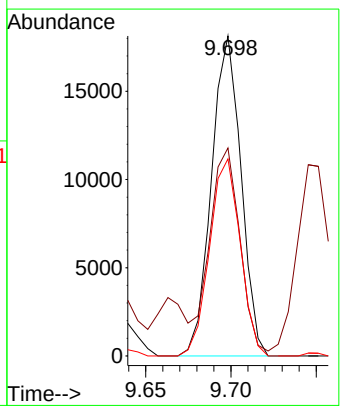
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

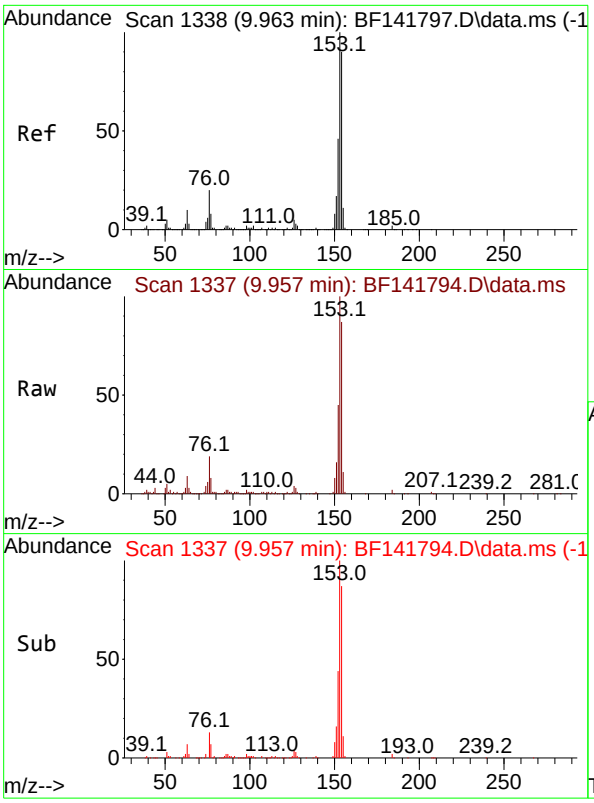


#51
2,6-Dinitrotoluene
Concen: 5.327 ng
RT: 9.698 min Scan# 1293
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

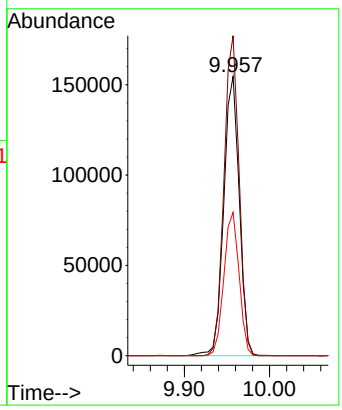




#52
Acenaphthene
Concen: 5.353 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:154 Resp: 19591

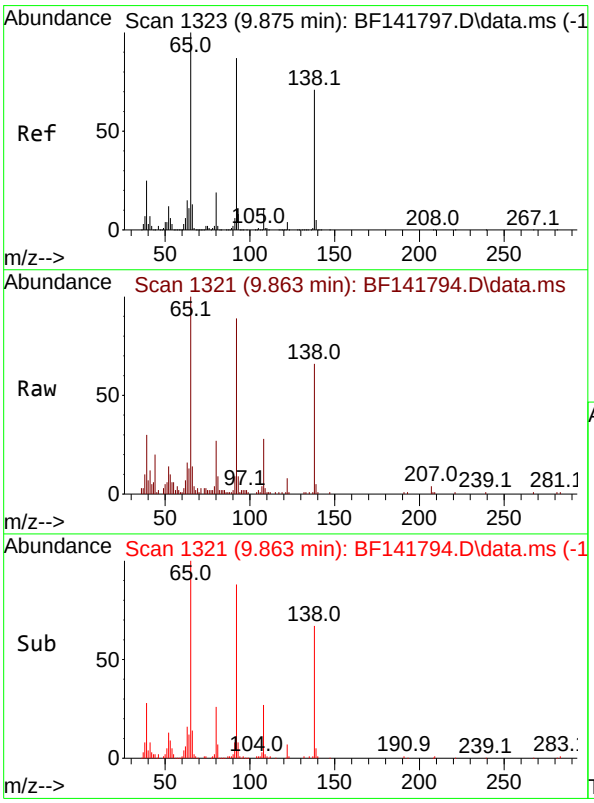
Ion	Ratio	Lower	Upper
154	100		
153	114.6	88.7	133.1
152	51.4	40.9	61.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

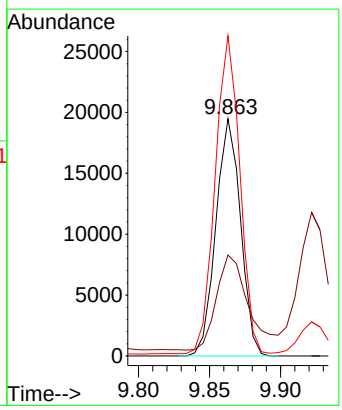
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

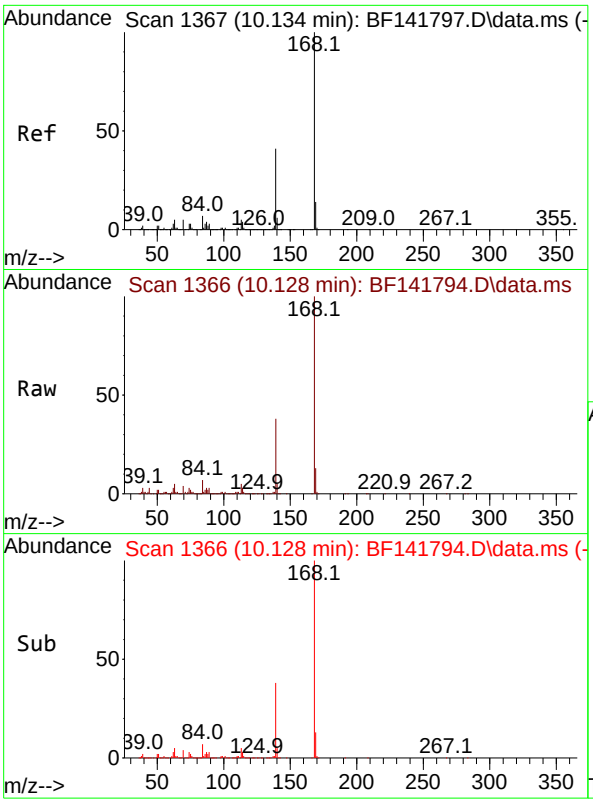


#53
3-Nitroaniline
Concen: 5.471 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

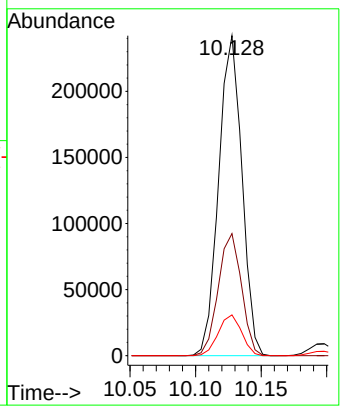




#55
Dibenzofuran
Concen: 5.590 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:168 Resp: 29775

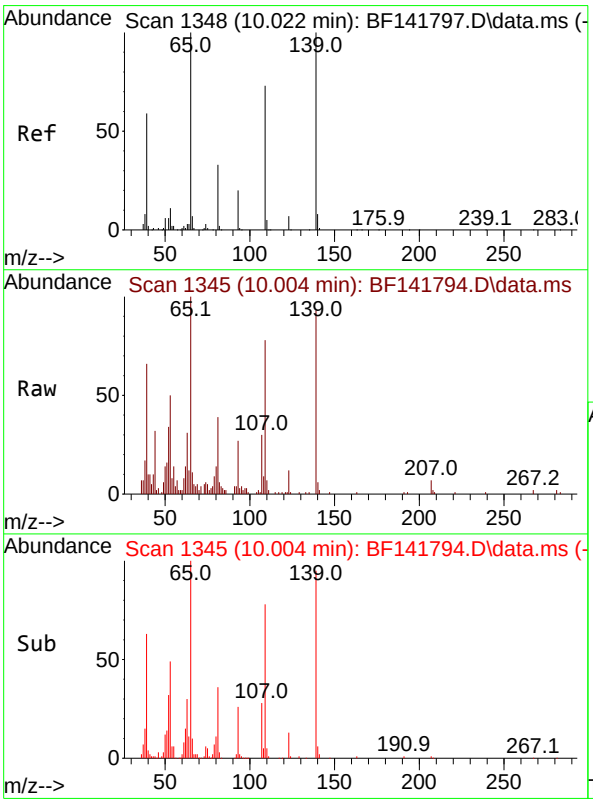
Ion	Ratio	Lower	Upper
168	100		
139	38.1	32.9	49.3
169	12.8	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

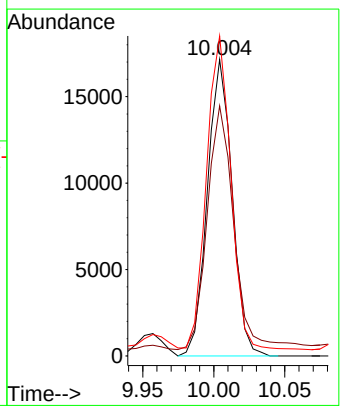
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

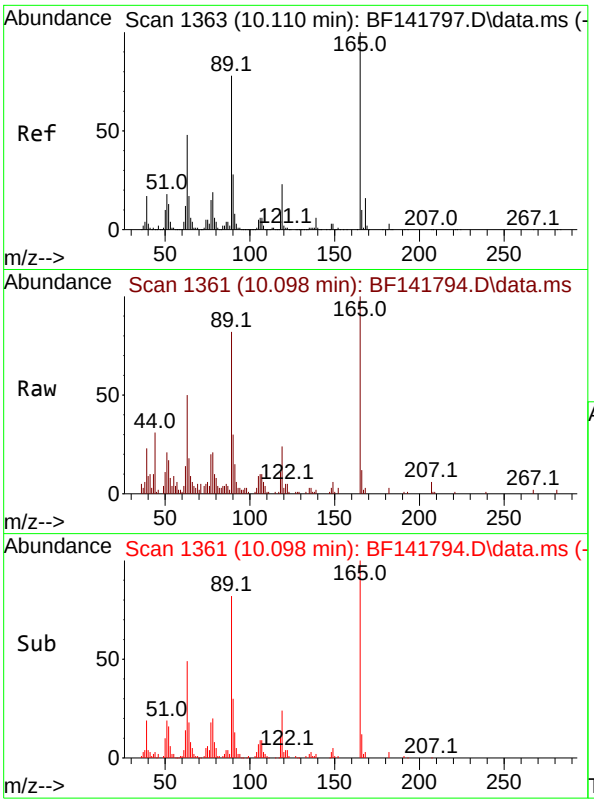


#56
4-Nitrophenol
Concen: 3.272 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

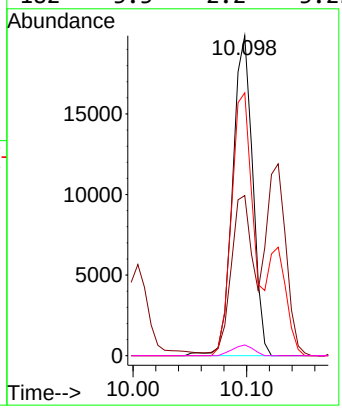




#57
2,4-Dinitrotoluene
Concen: 5.755 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:165 Resp: 2425

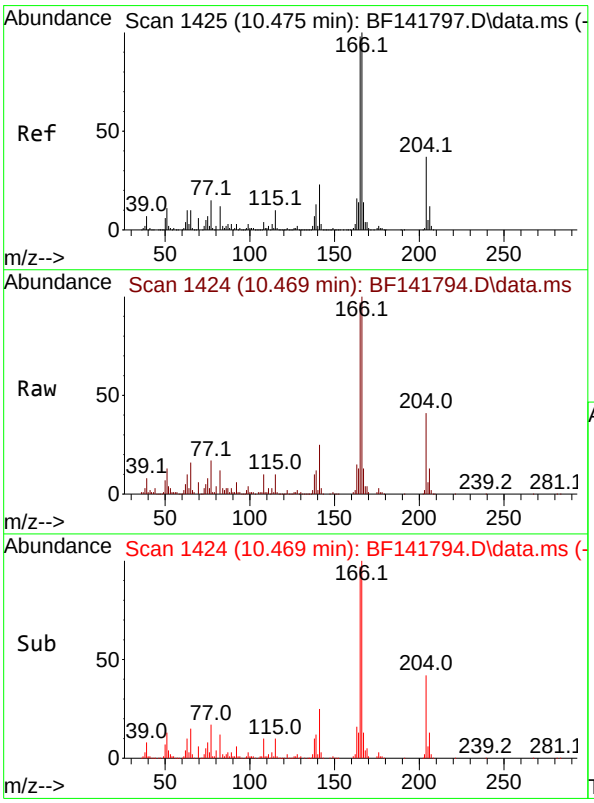
Ion	Ratio	Lower	Upper
165	100		
63	50.0	38.8	58.2
89	82.2	62.6	94.0
182	3.3	2.2	3.2#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

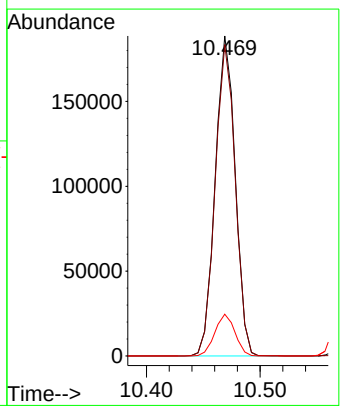
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

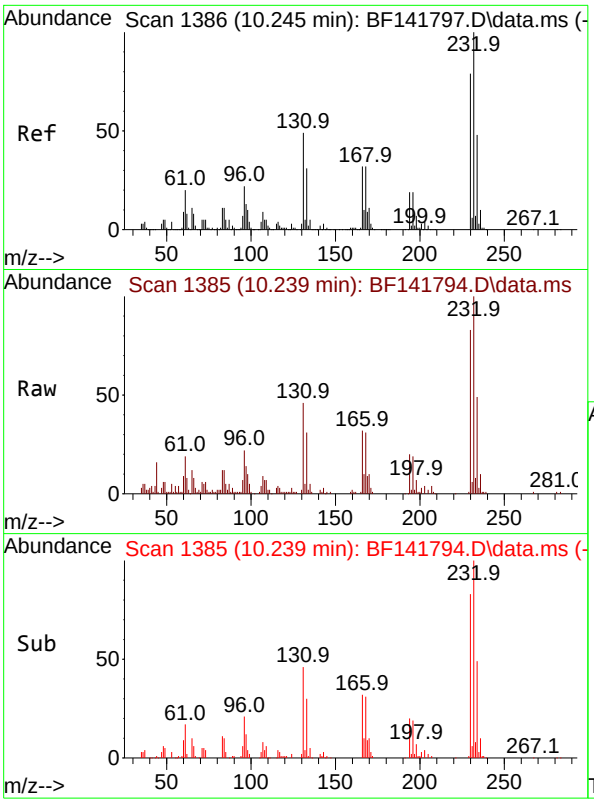


#58
Fluorene
Concen: 5.782 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

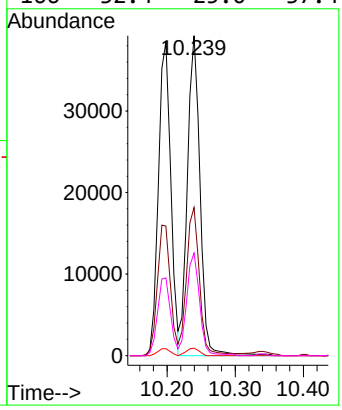




#59
2,3,4,6-Tetrachlorophenol
Concen: 4.873 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:232 Resp: 5041

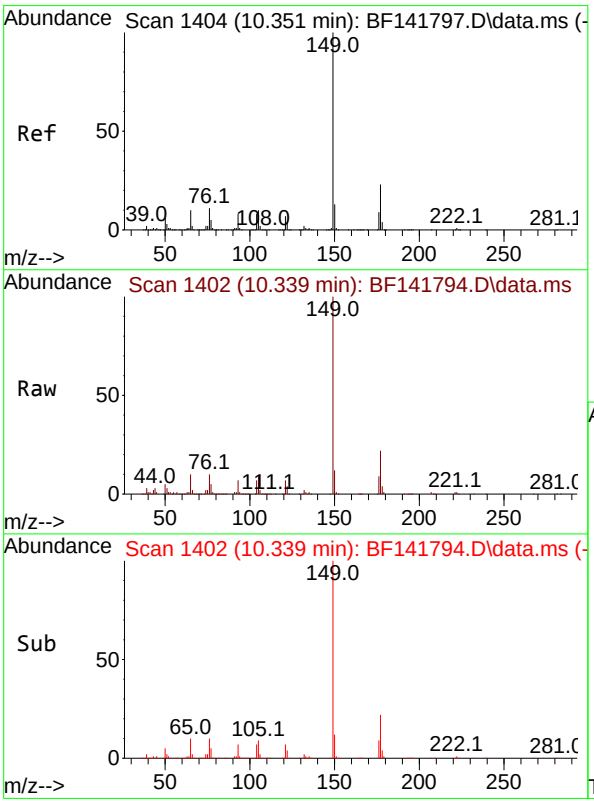
Ion	Ratio	Lower	Upper
232	100		
131	47.2	37.8	56.8
130	2.4	2.0	3.0
166	32.4	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

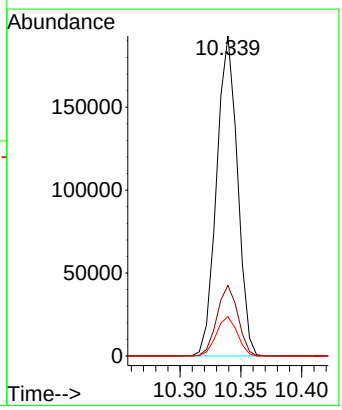
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

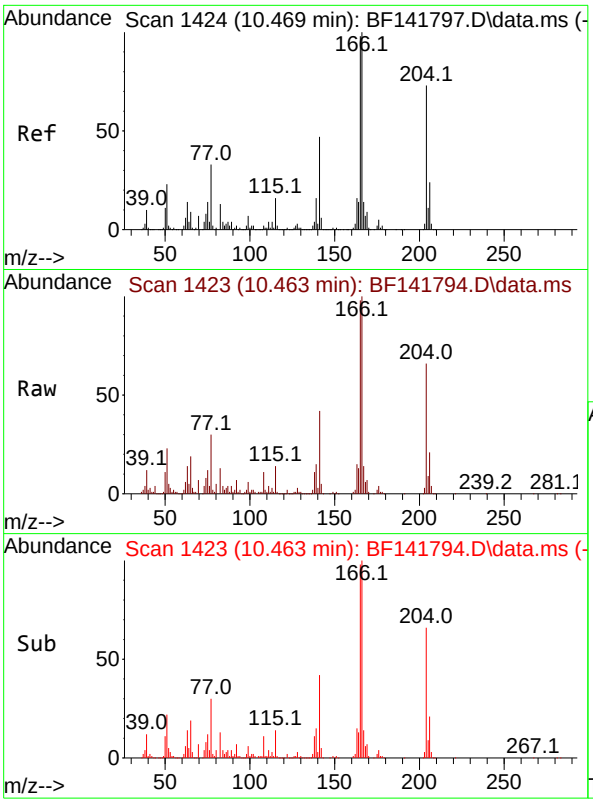


#60
Diethylphthalate
Concen: 5.322 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

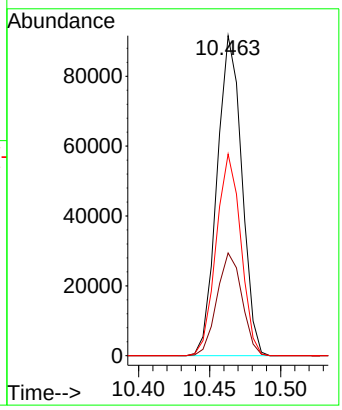




#61
4-Chlorophenyl-phenylether
Concen: 5.561 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:204 Resp: 111169

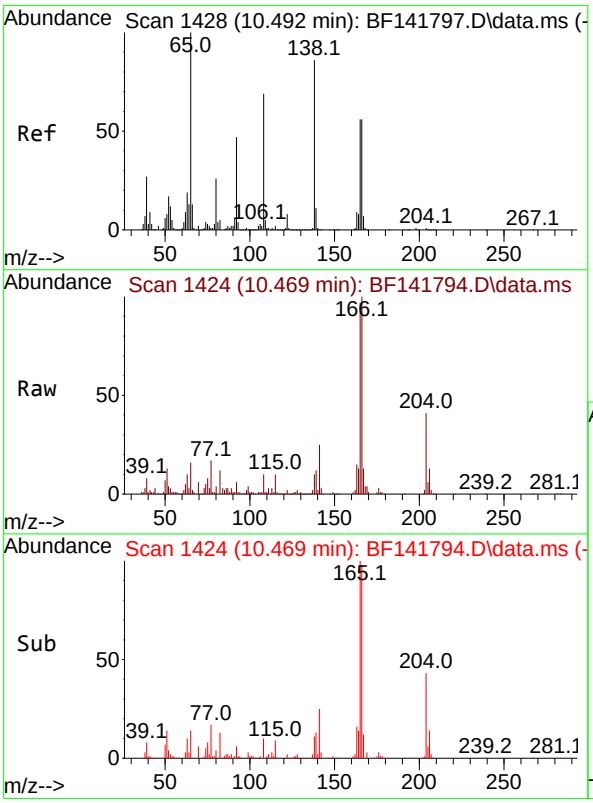
Ion	Ratio	Lower	Upper
204	100		
206	32.1	26.2	39.4
141	63.0	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

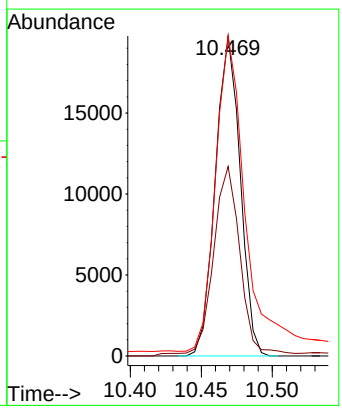
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

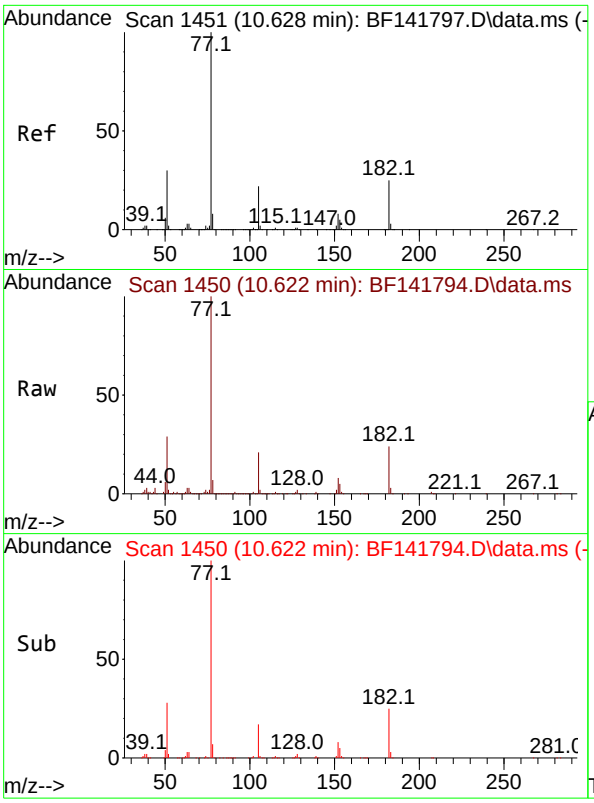


#62
4-Nitroaniline
Concen: 3.260 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.024 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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#

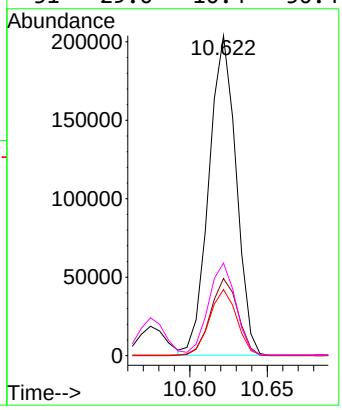




#63
Azobenzene
Concen: 5.460 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion: 77 Resp: 248519

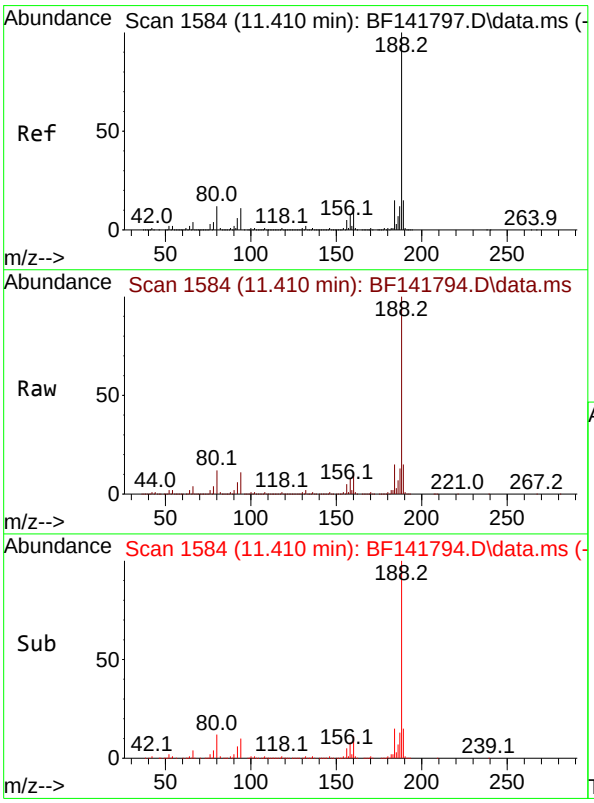
Ion	Ratio	Lower	Upper
77	100		
182	24.1	4.2	44.2
105	20.7	1.5	41.5
51	29.0	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

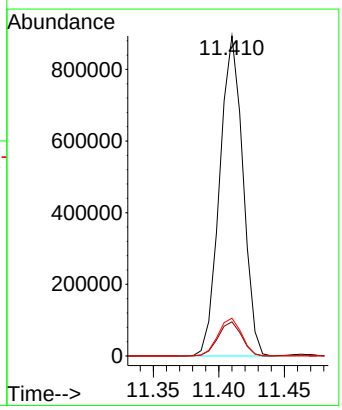
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

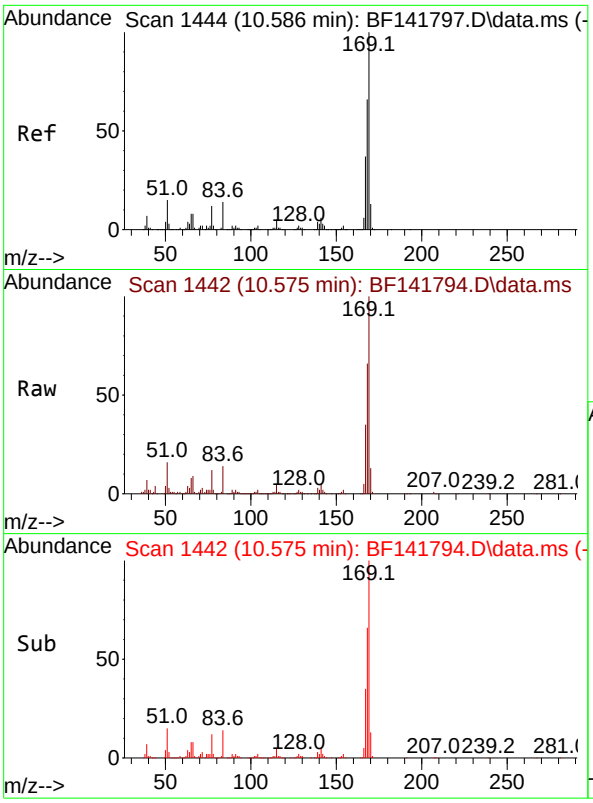


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

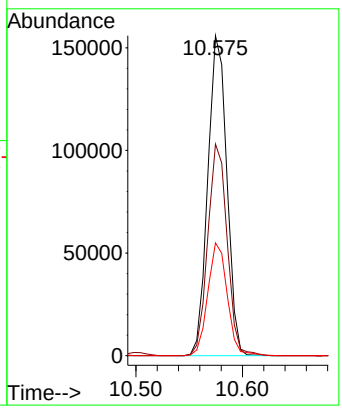




#66
n-Nitrosodiphenylamine
Concen: 5.344 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:169 Resp: 19320

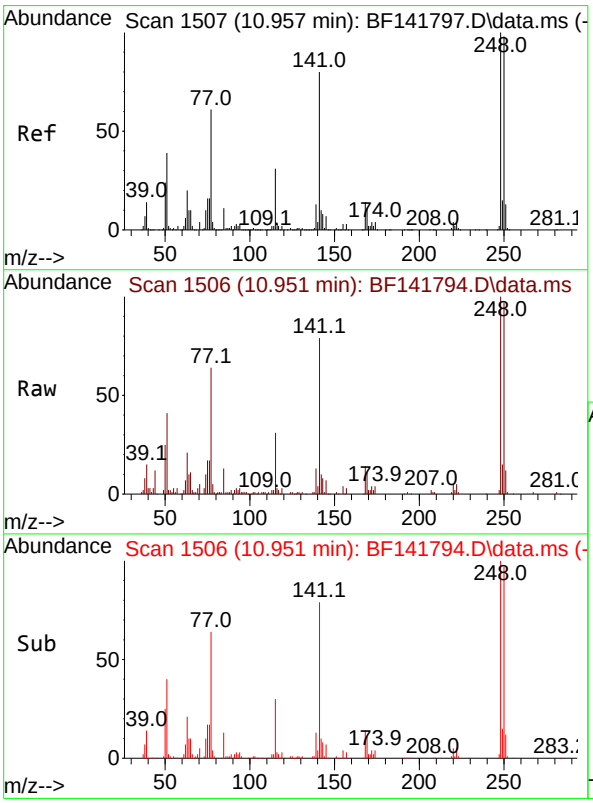
Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.6
167	35.2	29.3	43.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

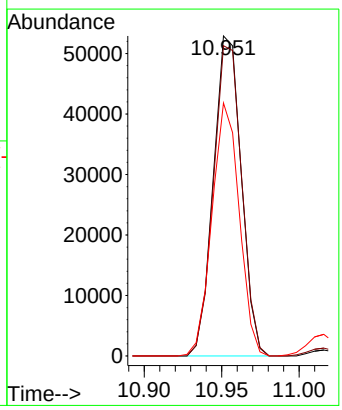
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

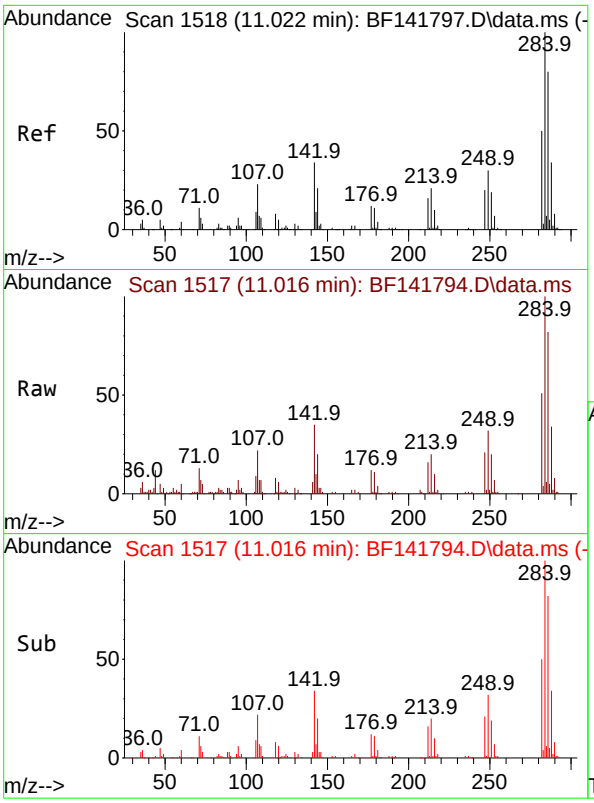


#67
4-Bromophenyl-phenylether
Concen: 5.156 ng
RT: 10.951 min Scan# 1506
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

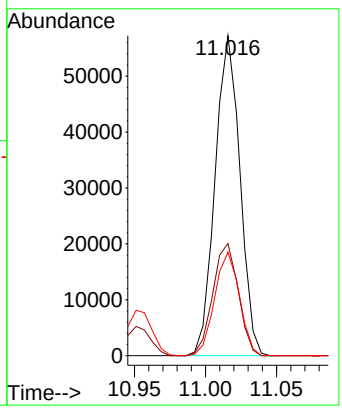




#68
Hexachlorobenzene
Concen: 5.125 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:284 Resp: 6959

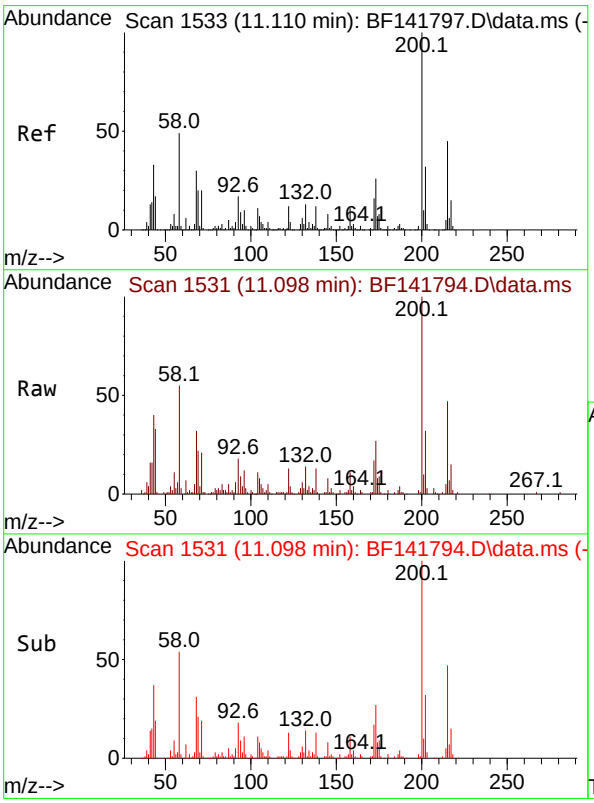
Ion	Ratio	Lower	Upper
284	100		
142	35.1	28.2	42.2
249	32.3	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

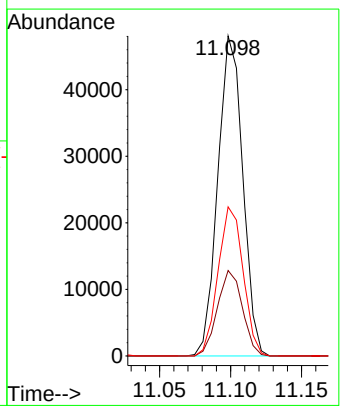
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

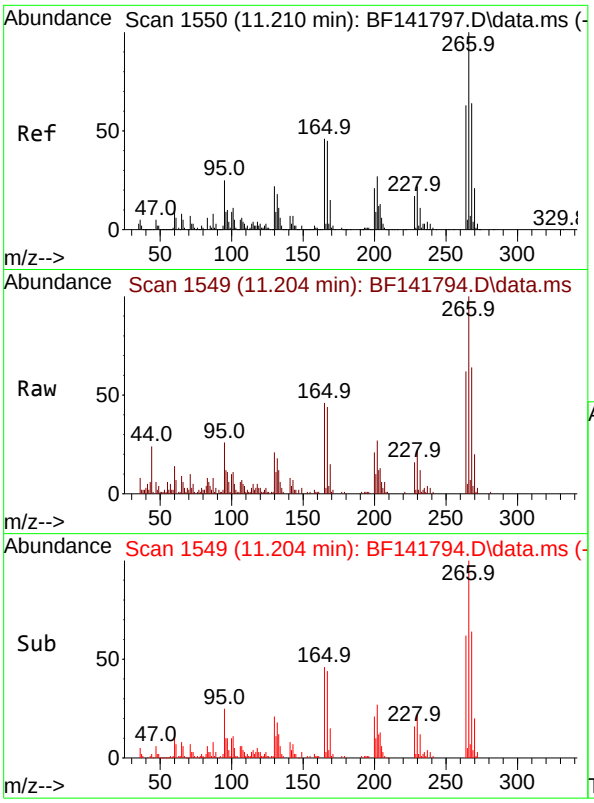


#69
Atrazine
Concen: 5.897 ng
RT: 11.098 min Scan# 1531
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

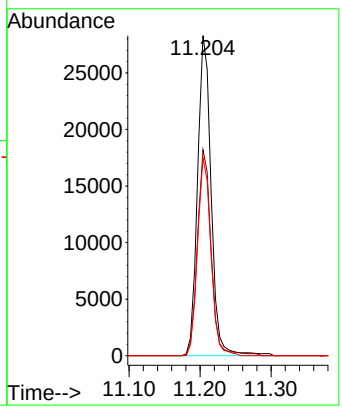




#70
Pentachlorophenol
Concen: 4.373 ng
RT: 11.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:266 Resp: 3766

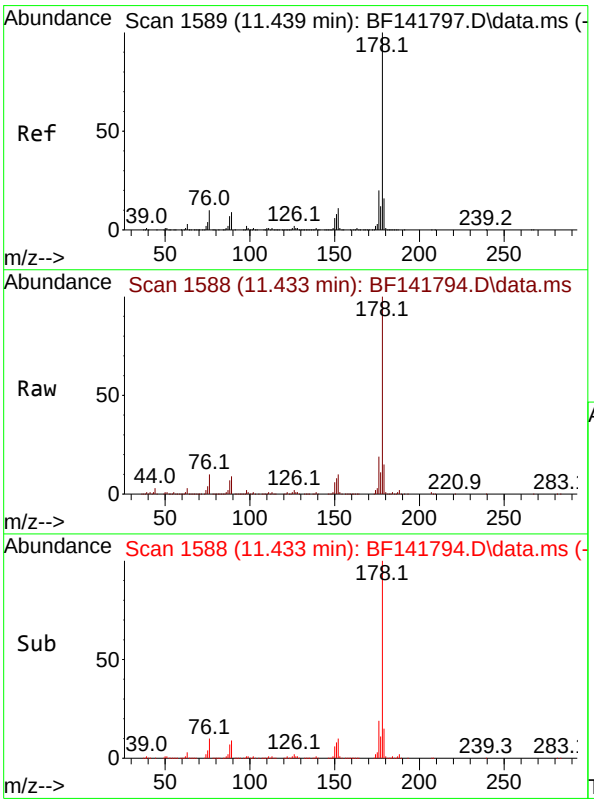
Ion	Ratio	Lower	Upper
266	100		
268	64.3	50.9	76.3
264	61.8	50.2	75.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

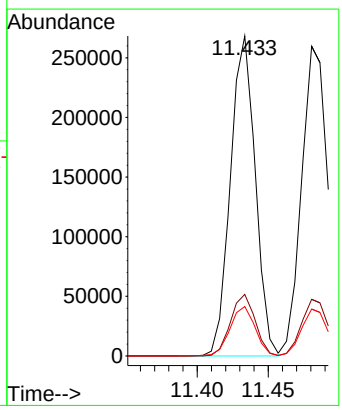
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

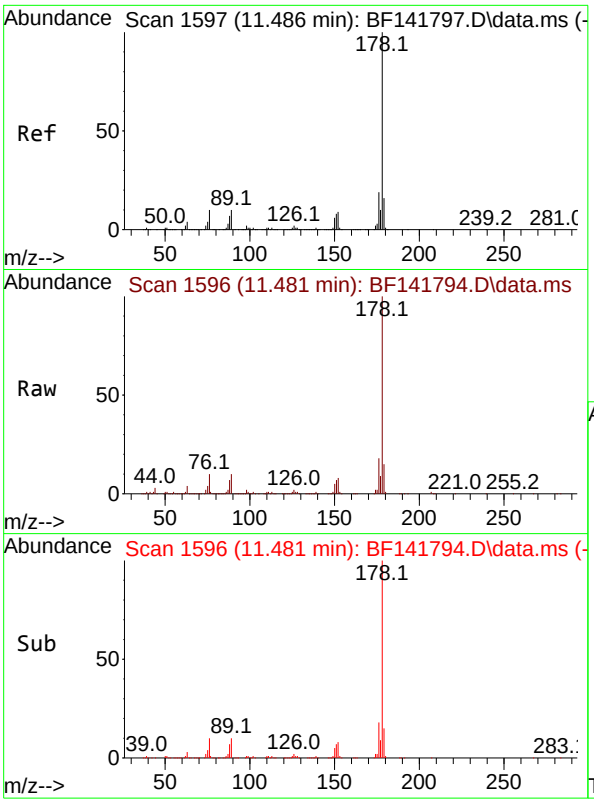


#71
Phenanthrene
Concen: 5.544 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

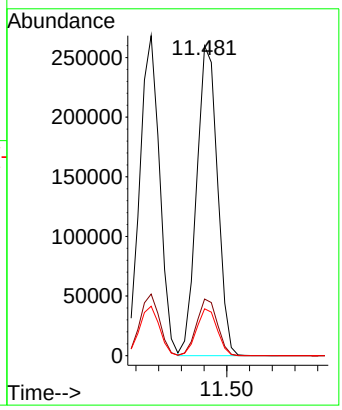




#72
Anthracene
Concen: 5.610 ng
RT: 11.481 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:178 Resp: 33114

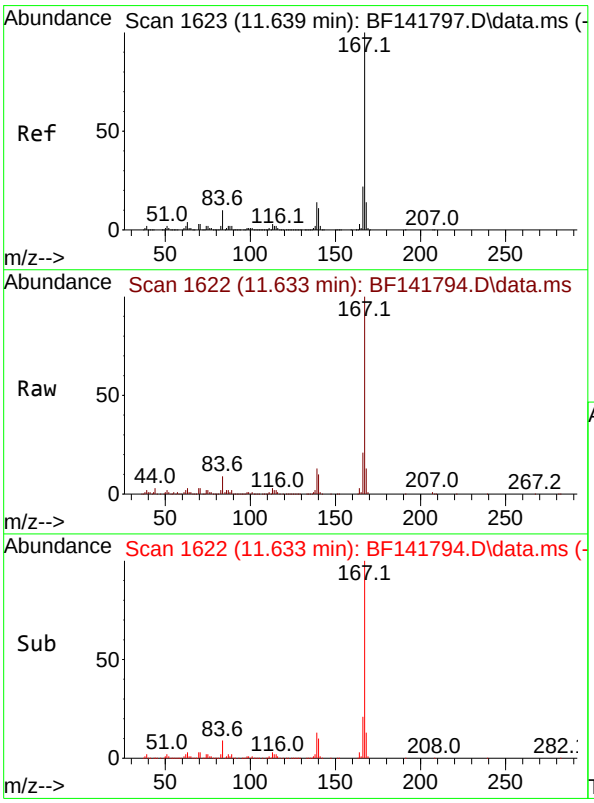
Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	15.2	12.8	19.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

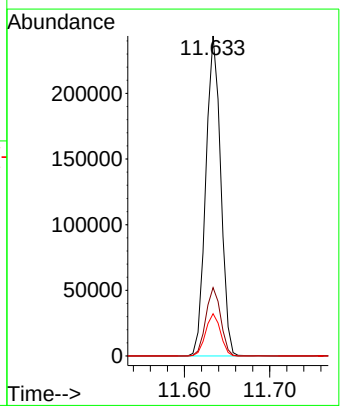
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

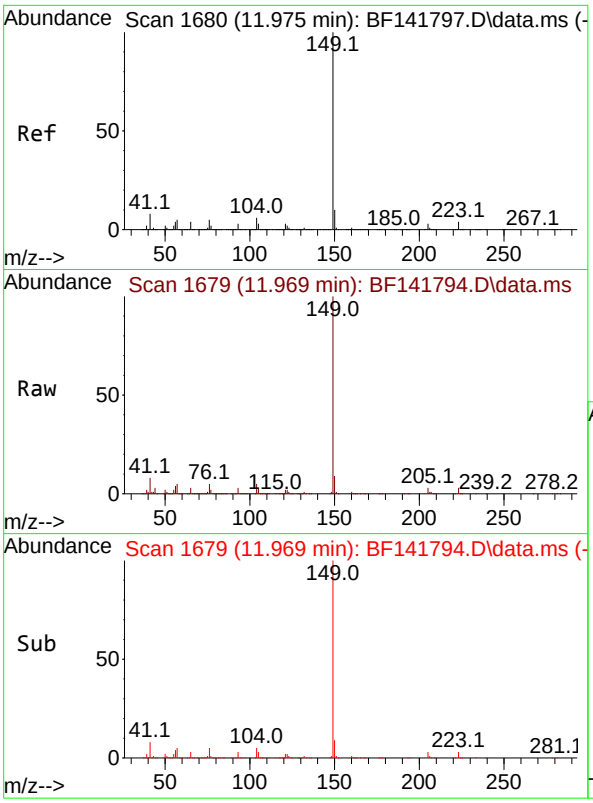


#73
Carbazole
Concen: 5.673 ng
RT: 11.633 min Scan# 1622
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

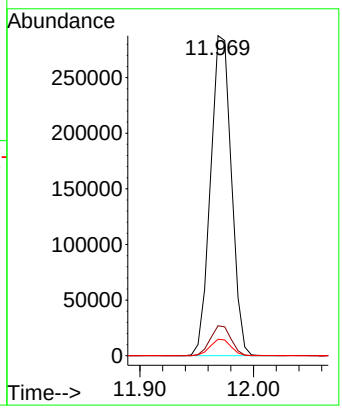




#74
Di-n-butylphthalate
Concen: 5.560 ng
RT: 11.969 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 36734

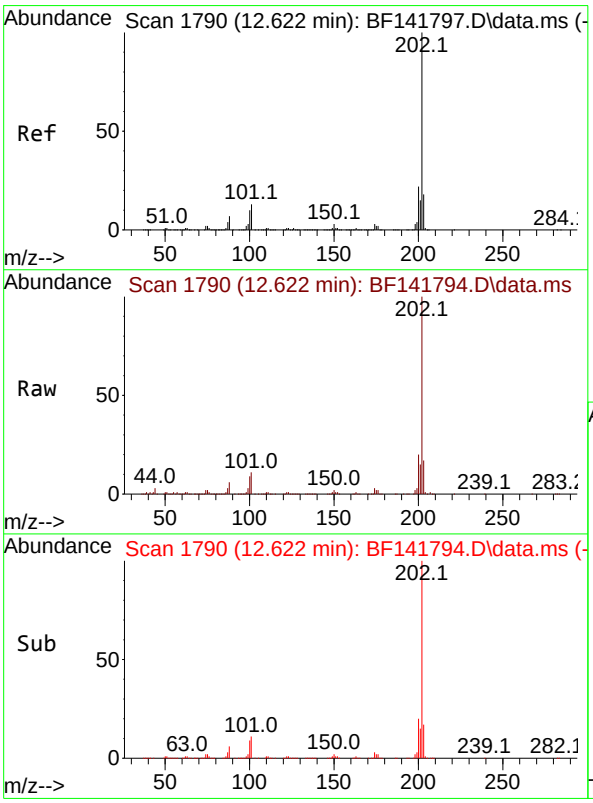
Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.7	11.5
104	5.1	4.4	6.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

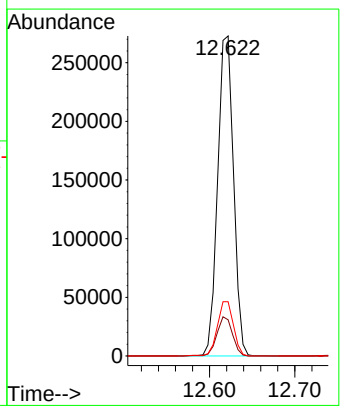
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

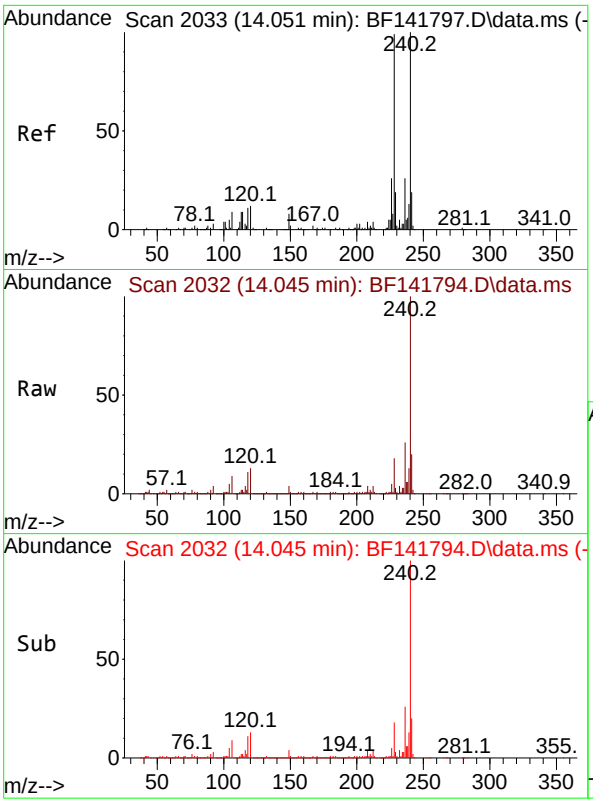


#75
Fluoranthene
Concen: 5.861 ng
RT: 12.622 min Scan# 1790
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

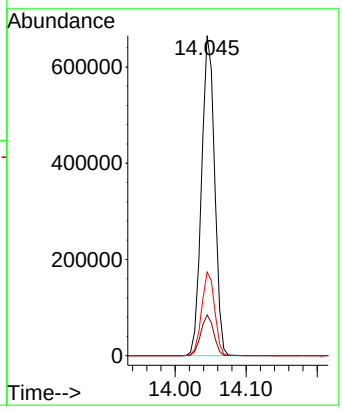




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:240 Resp: 85255

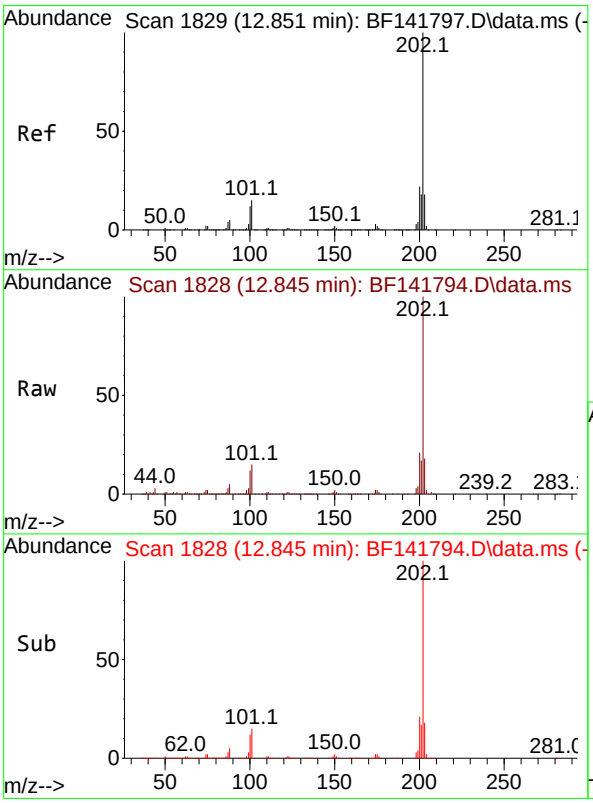
Ion	Ratio	Lower	Upper
240	100		
120	12.8	9.7	14.5
236	26.2	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

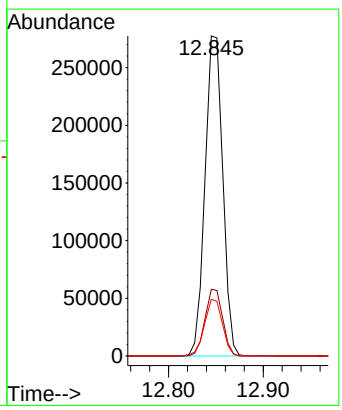
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

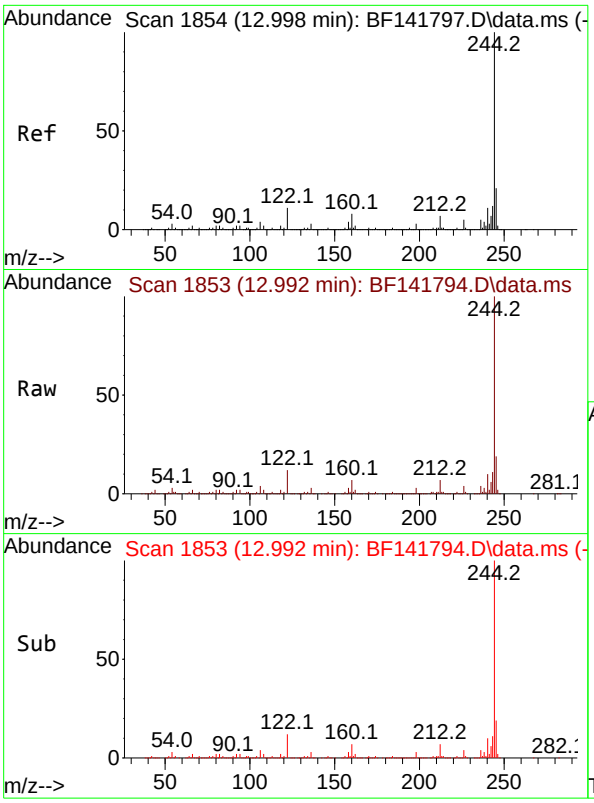


#78
Pyrene
Concen: 4.903 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

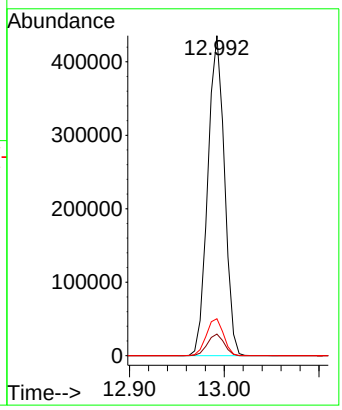




#79
Terphenyl-d14
Concen: 10.112 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:244 Resp: 53285

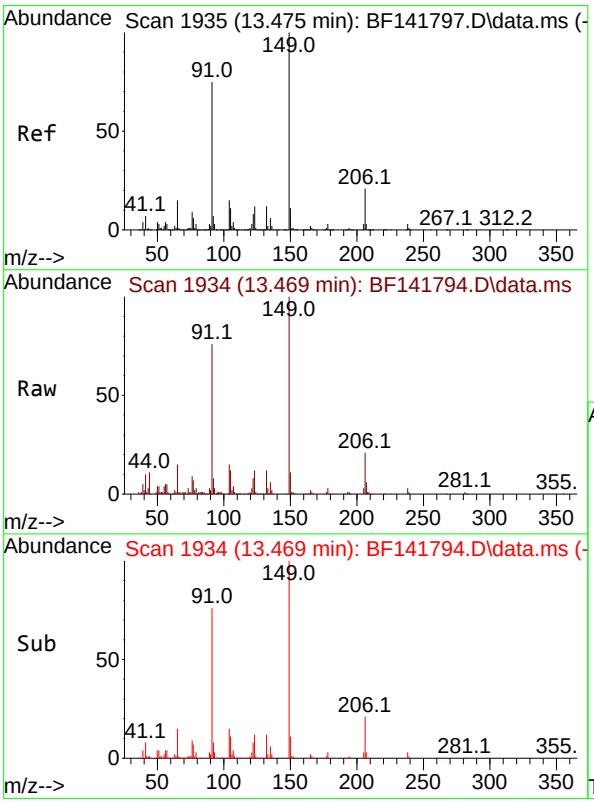
Ion	Ratio	Lower	Upper
244	100		
212	6.7	6.0	9.0
122	11.5	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

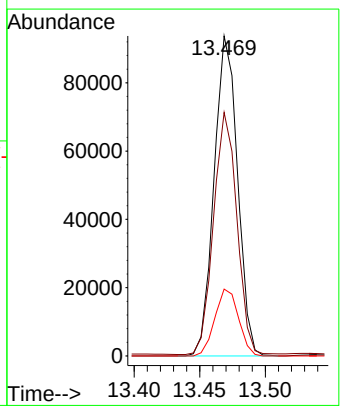
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

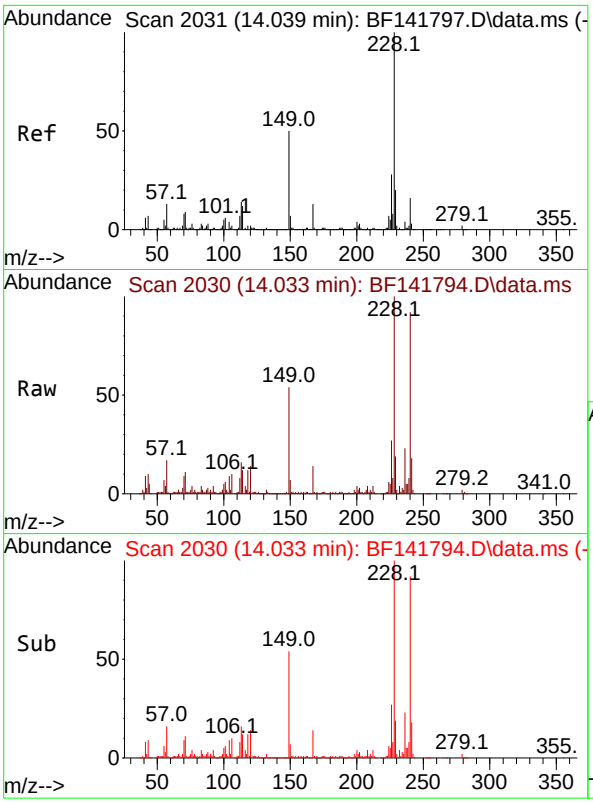


#80
Butylbenzylphthalate
Concen: 4.341 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

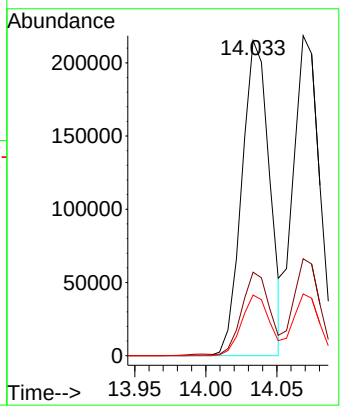




#81
Benzo(a)anthracene
Concen: 5.174 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 29137

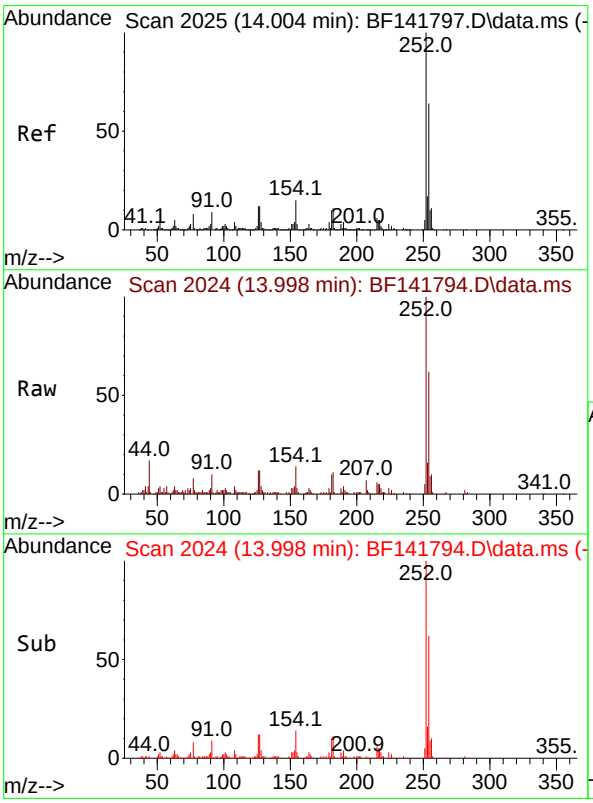
Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.1	33.1
229	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

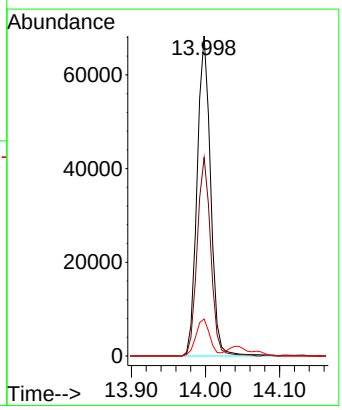
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

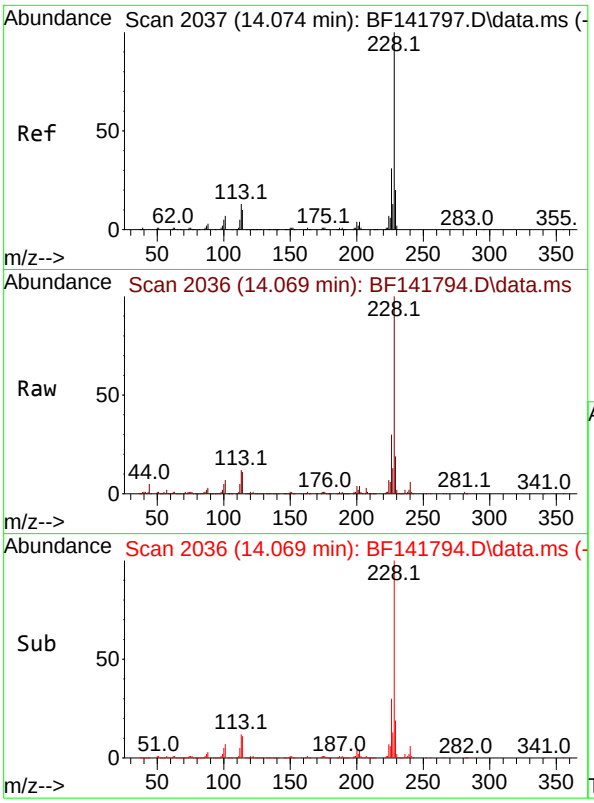


#82
3,3'-Dichlorobenzidine
Concen: 5.353 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

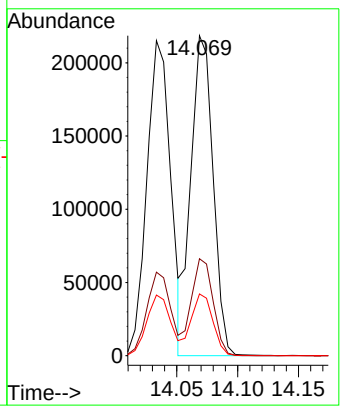




#83
Chrysene
Concen: 5.348 ng
RT: 14.069 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:228 Resp: 27763

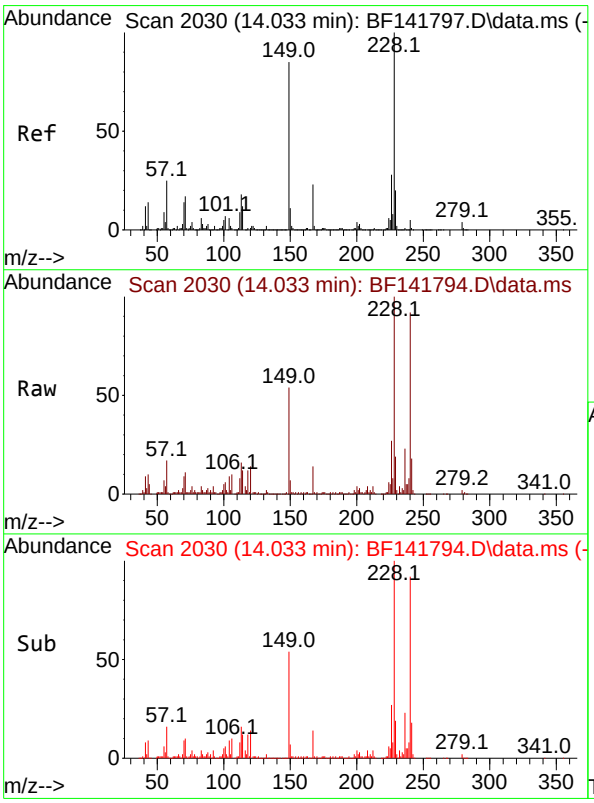
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.3	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

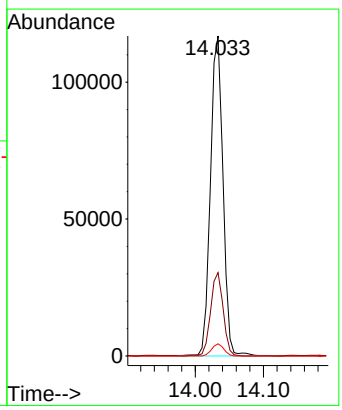
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

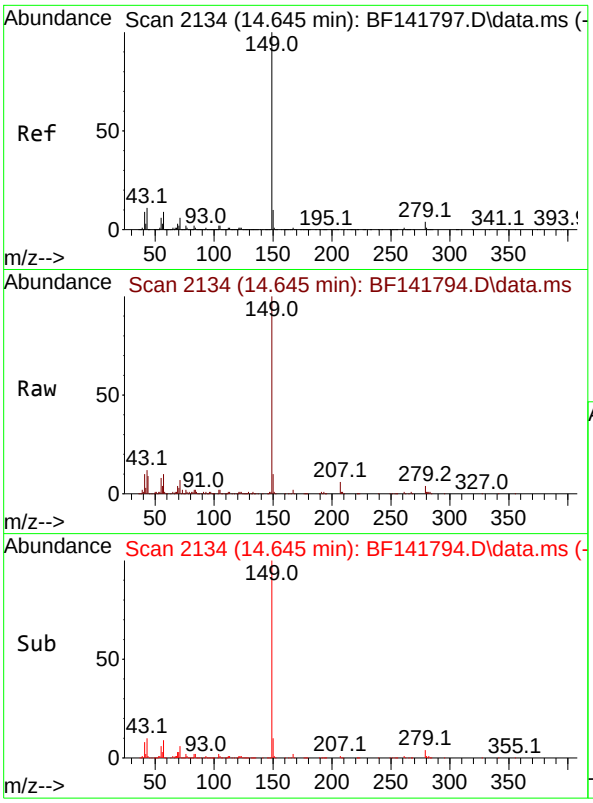


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.482 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

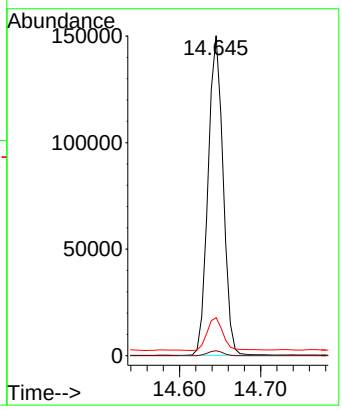




#85
Di-n-octyl phthalate
Concen: 3.848 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:149 Resp: 19239

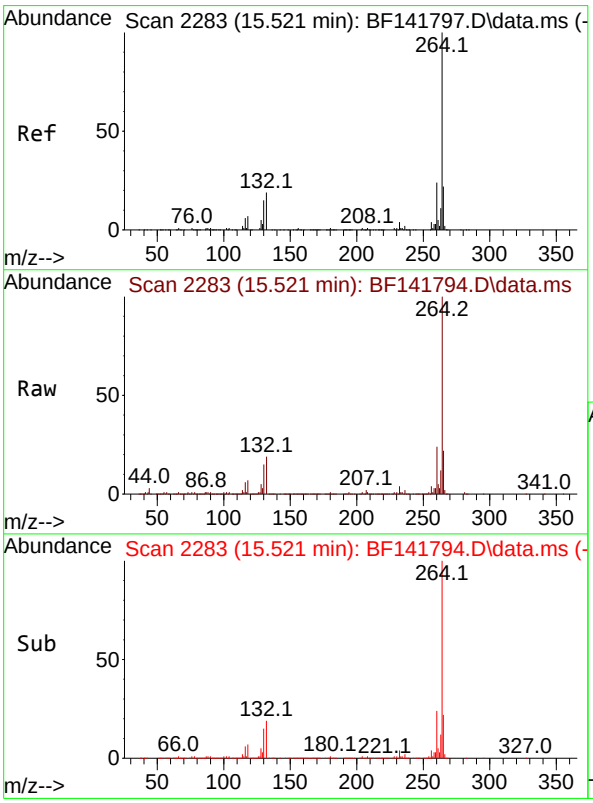
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.2	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

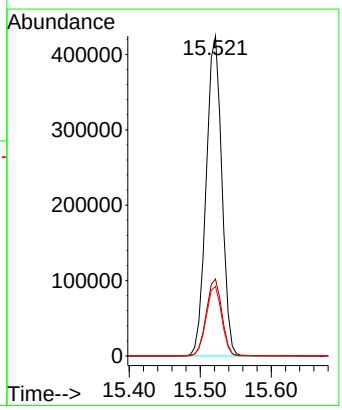
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

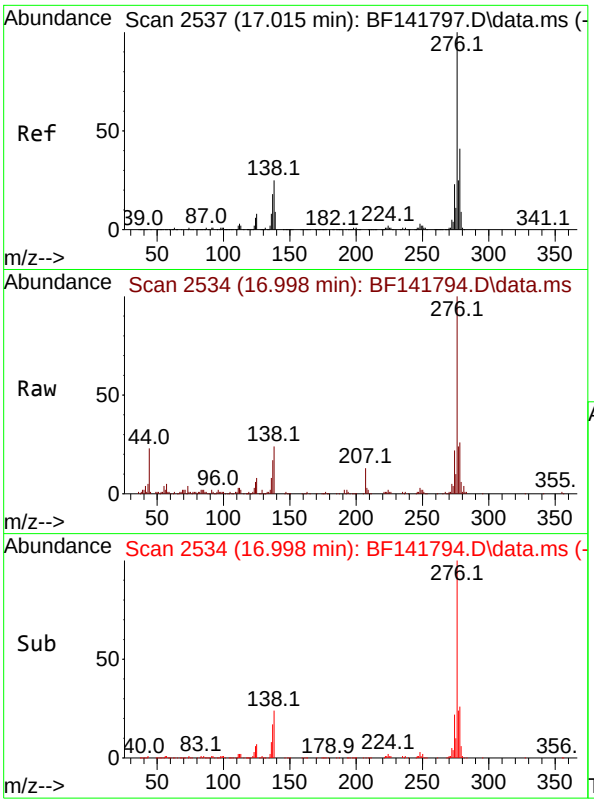


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

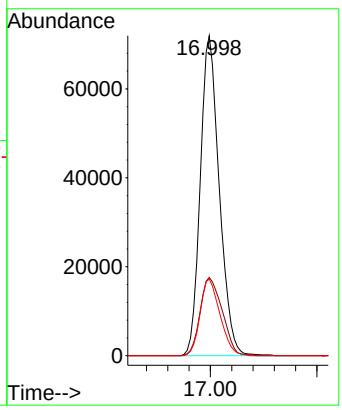




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.309 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:276 Resp: 17803

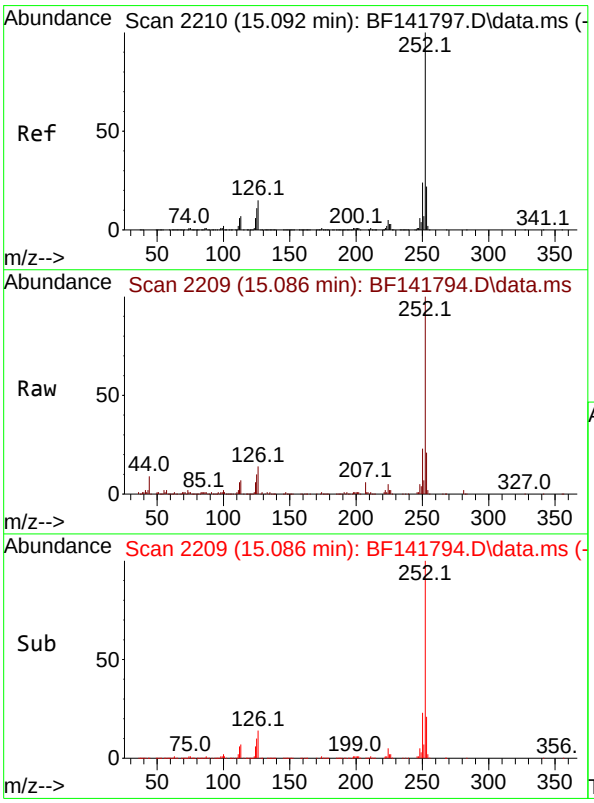
Ion	Ratio	Lower	Upper
276	100		
138	28.4	22.5	33.7
277	25.0	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

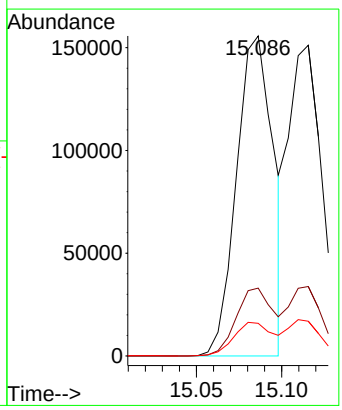
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

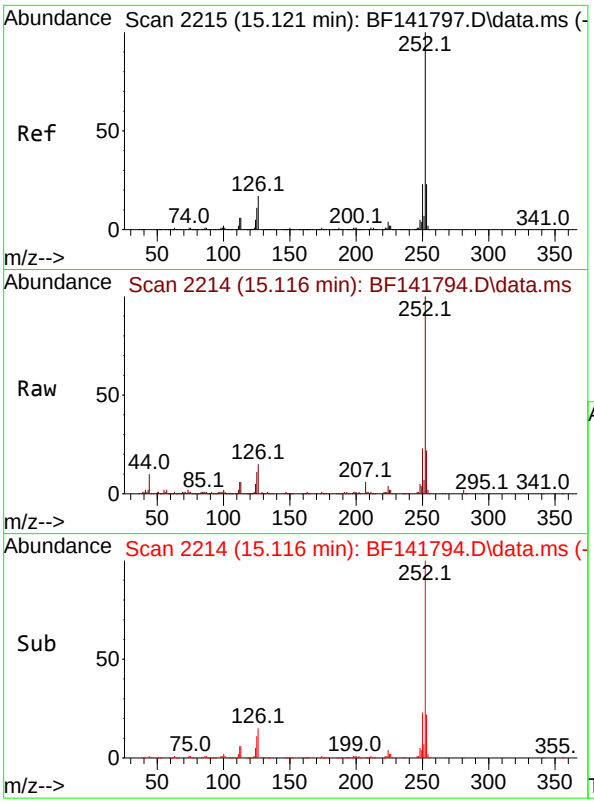


#88
Benzo(b)fluoranthene
Concen: 5.294 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

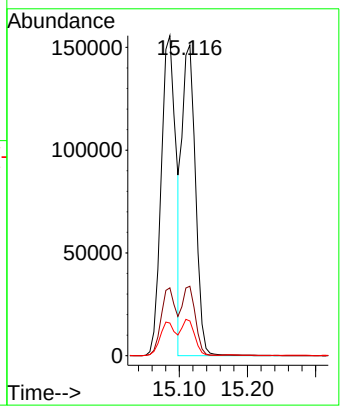




#89
Benzo(k)fluoranthene
Concen: 5.499 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:252 Resp: 20661

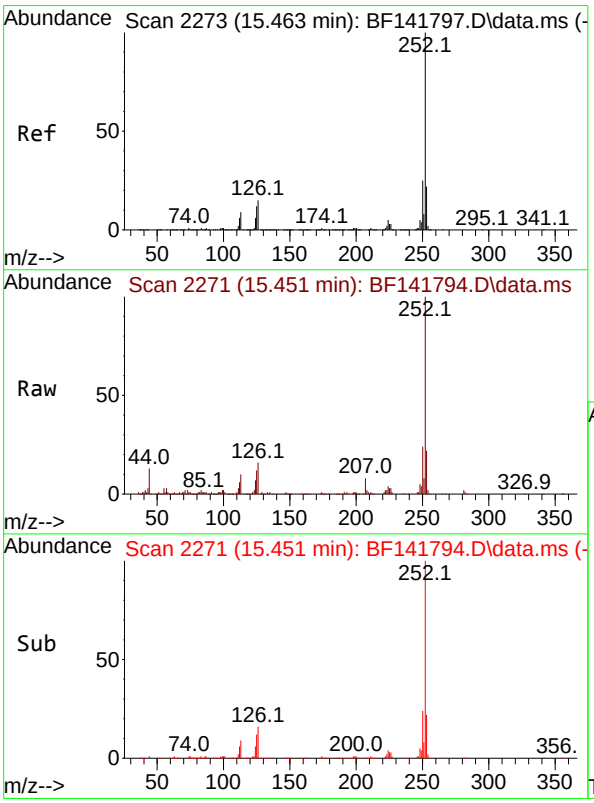
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.2	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

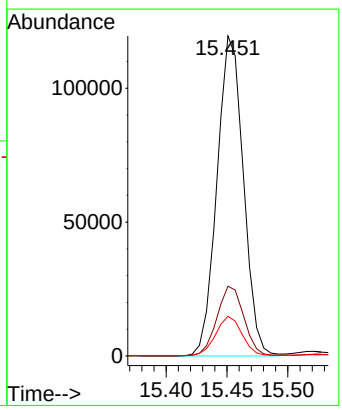
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

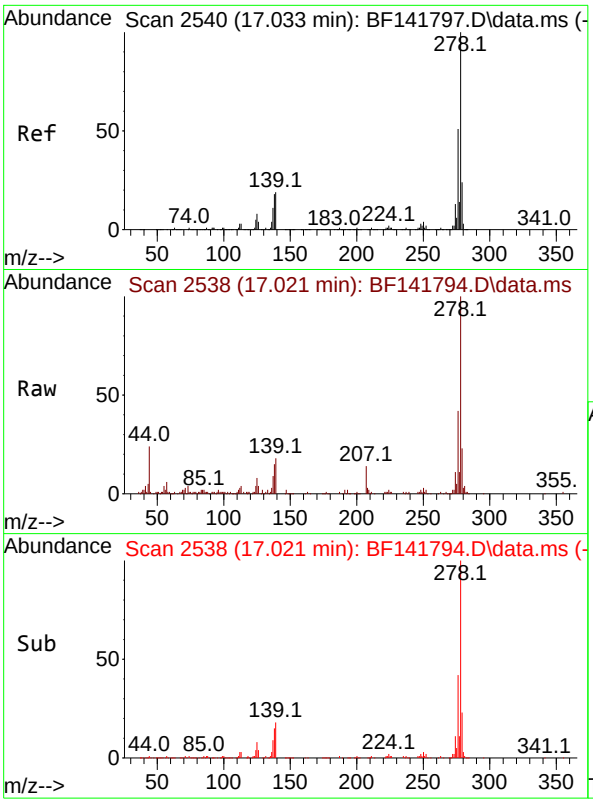


#90
Benzo(a)pyrene
Concen: 5.091 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

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

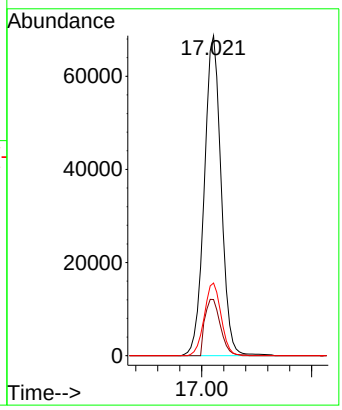




#91
Dibenzo(a,h)anthracene
Concen: 4.337 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141794.D
Acq: 27 Feb 2025 15:46

Tgt Ion:278 Resp: 14627

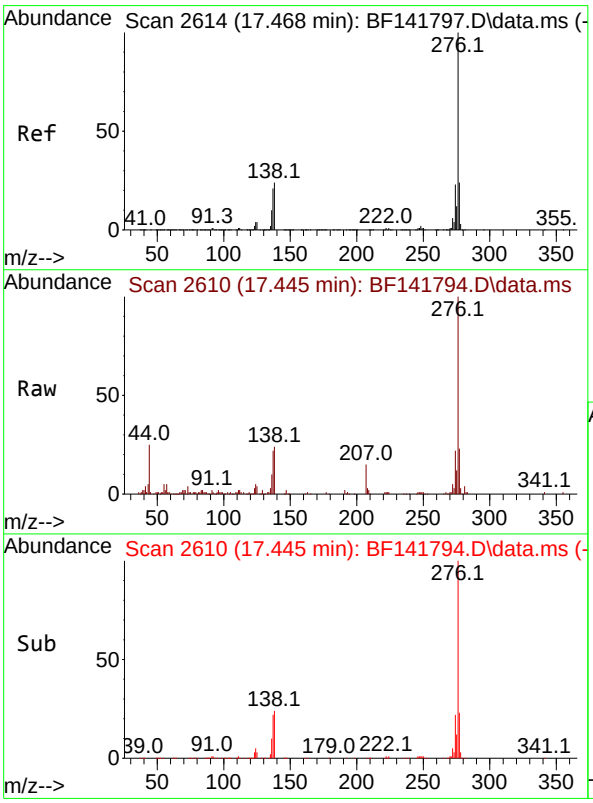
Ion	Ratio	Lower	Upper
278	100		
139	17.5	14.9	22.3
279	22.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

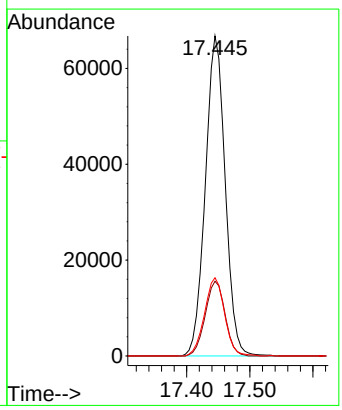
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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



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

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)
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

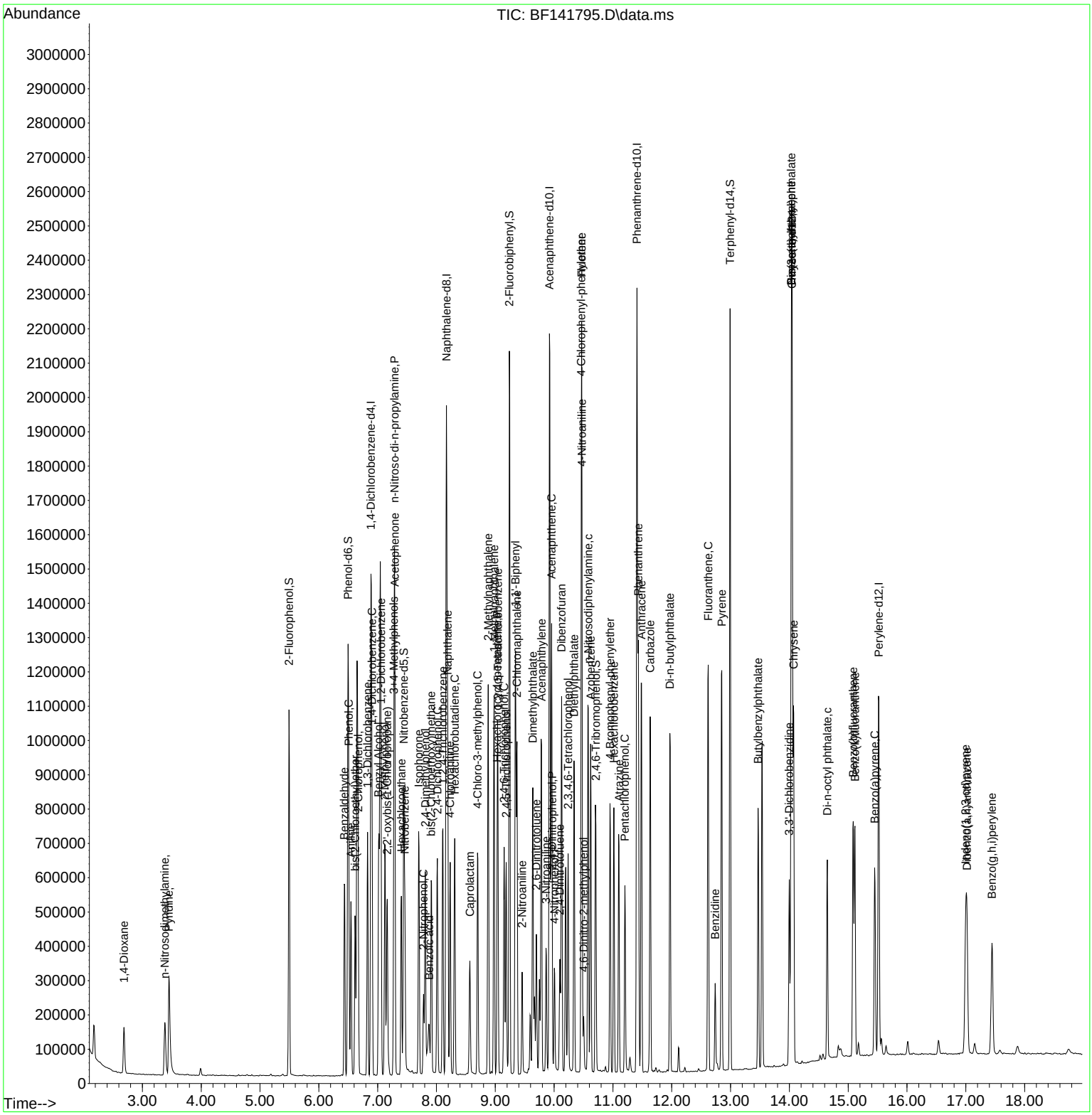
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141795.D
Acq On : 27 Feb 2025 16:16
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

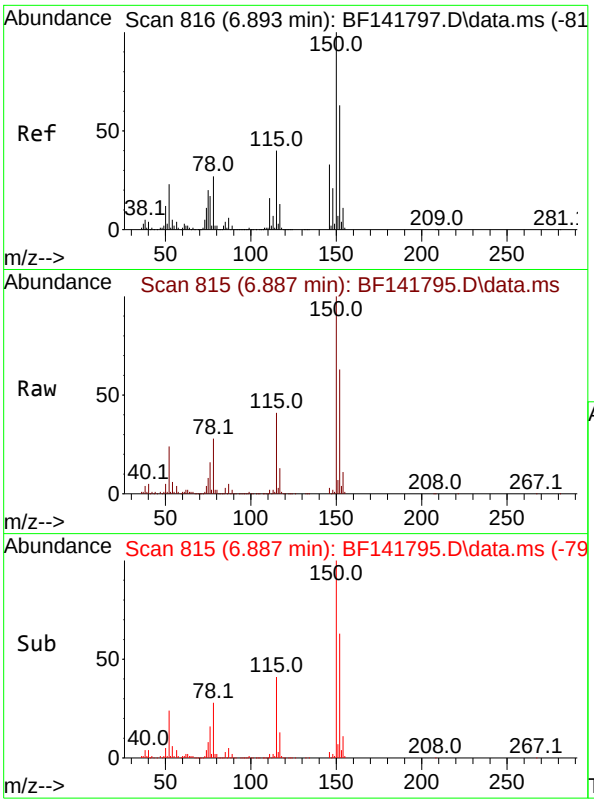
Quant Time: Feb 28 01:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

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

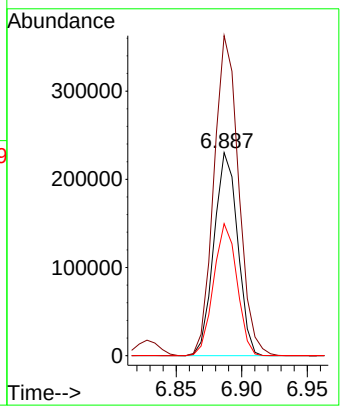




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 28926

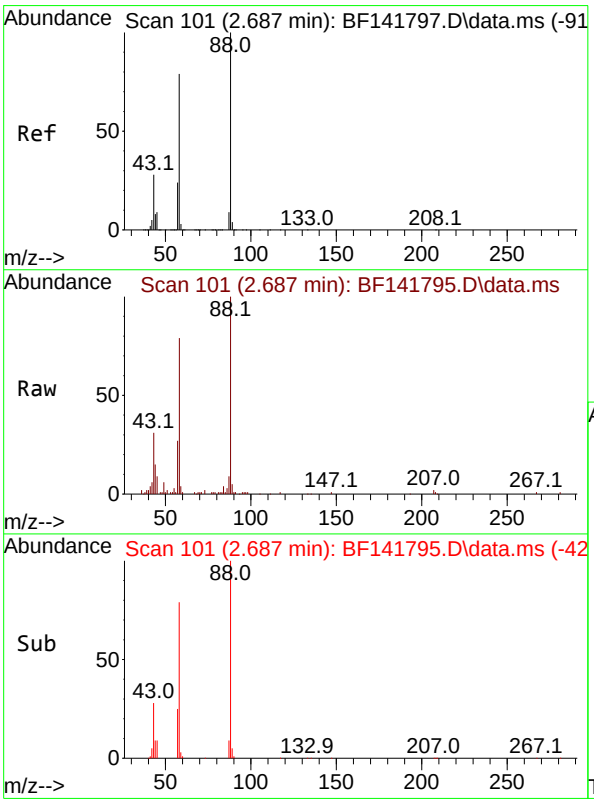
Ion	Ratio	Lower	Upper
152	100		
150	157.6	127.5	191.3
115	65.0	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

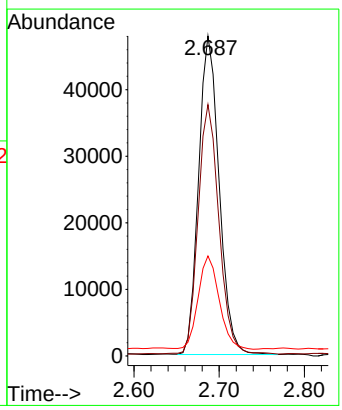
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

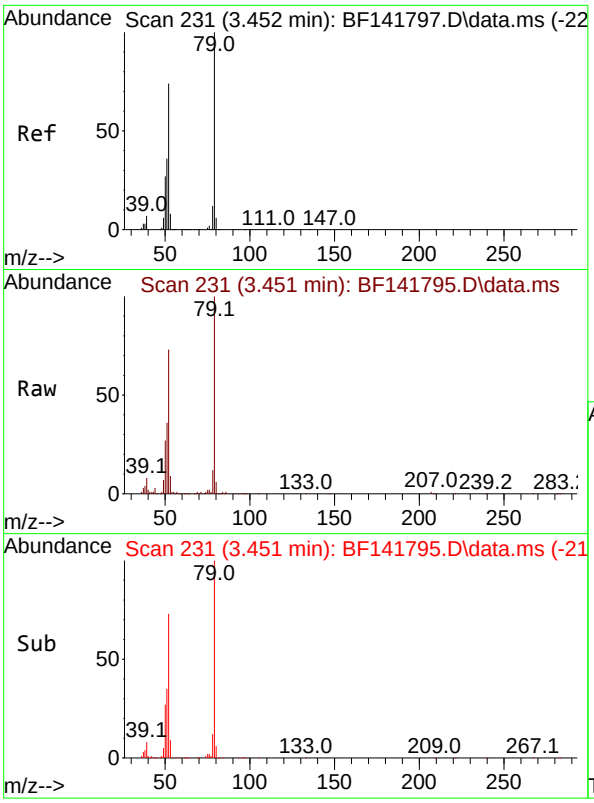


#2
1,4-Dioxane
Concen: 9.757 ng
RT: 2.687 min Scan# 101
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

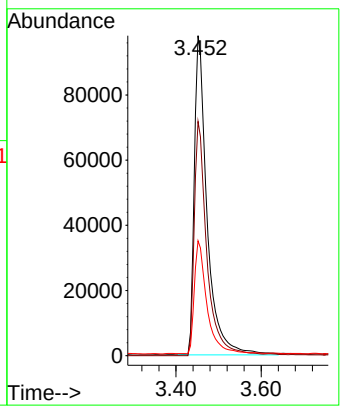




#3
Pyridine
Concen: 9.989 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 79 Resp: 20427

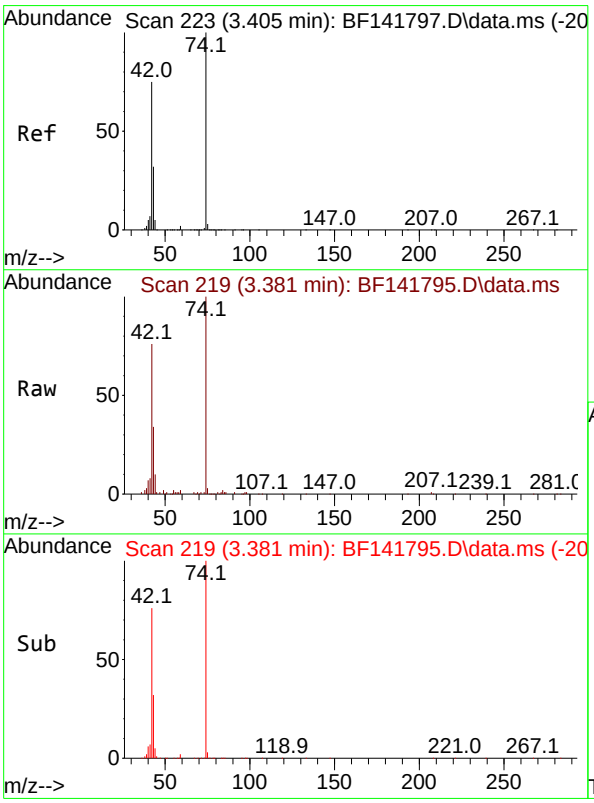
Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.9	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

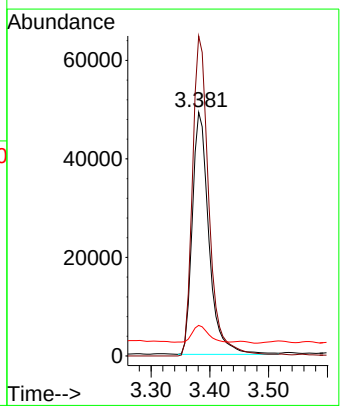
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

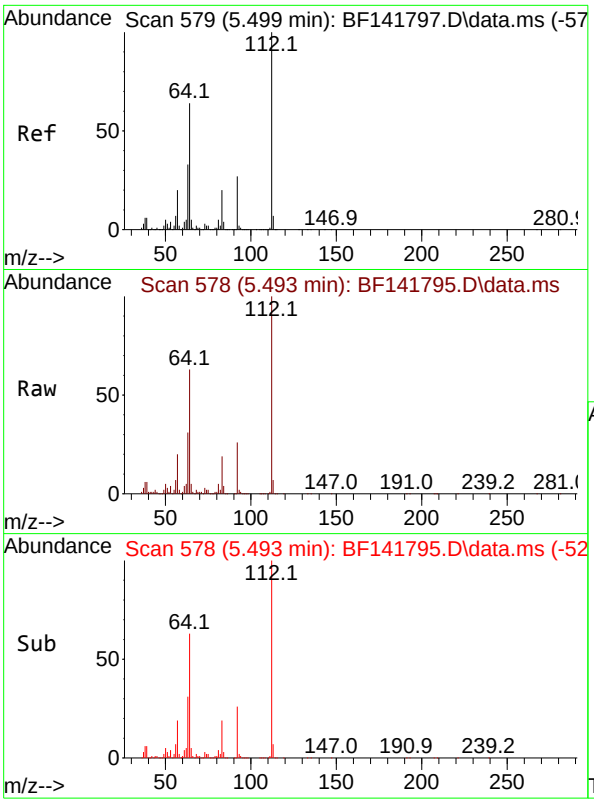


#4
n-Nitrosodimethylamine
Concen: 9.784 ng
RT: 3.381 min Scan# 219
Delta R.T. -0.024 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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#

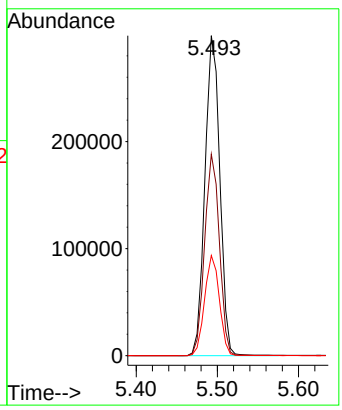




#5
2-Fluorophenol
Concen: 20.998 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:112 Resp: 38035

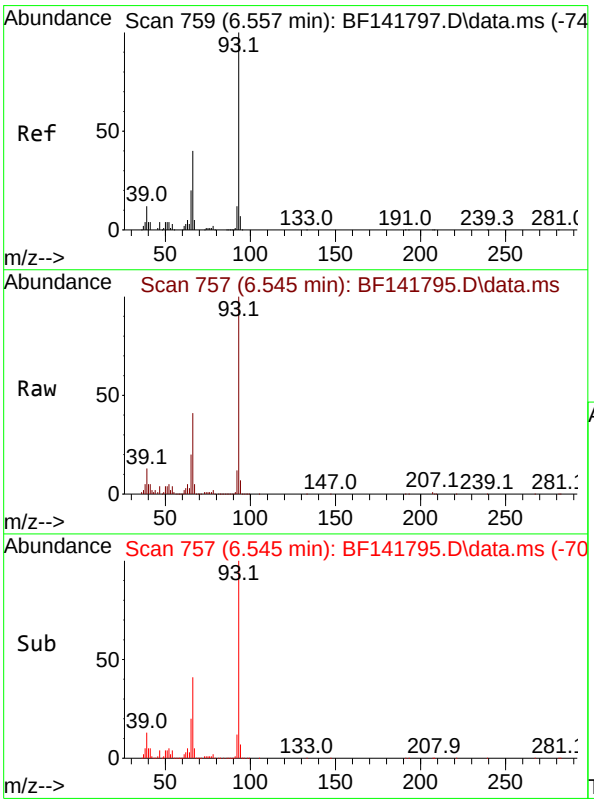
Ion	Ratio	Lower	Upper
112	100		
64	63.0	51.3	76.9
63	31.3	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

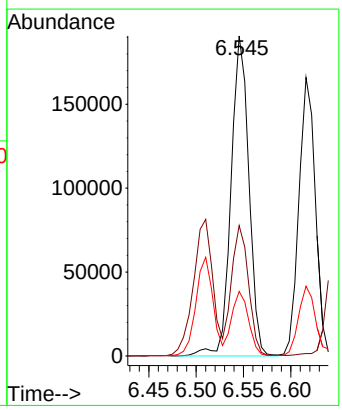
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

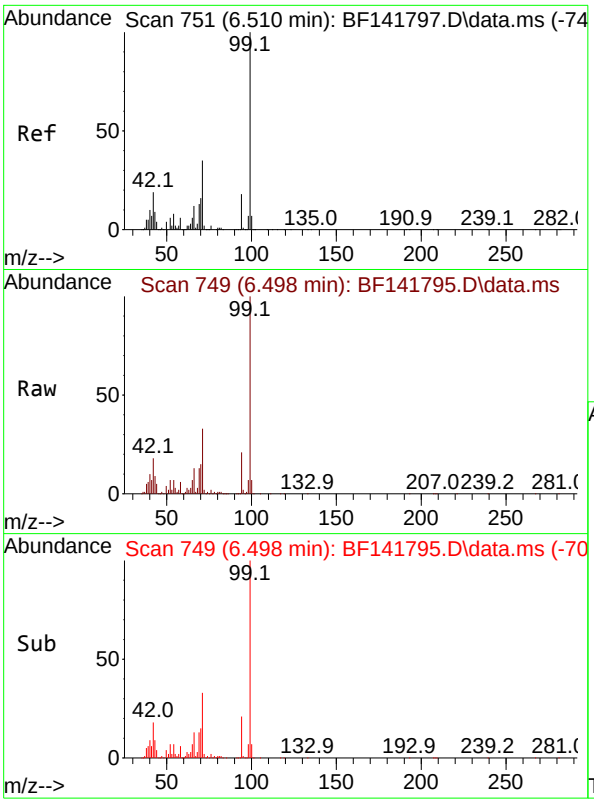


#6
Aniline
Concen: 10.243 ng
RT: 6.545 min Scan# 757
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

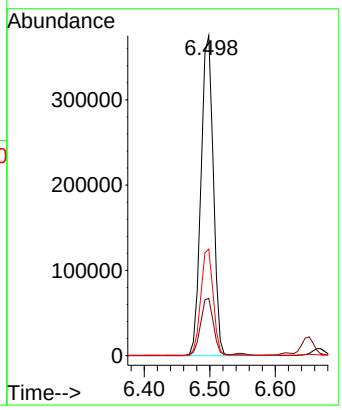




#7
Phenol-d6
Concen: 20.942 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 99 Resp: 49373

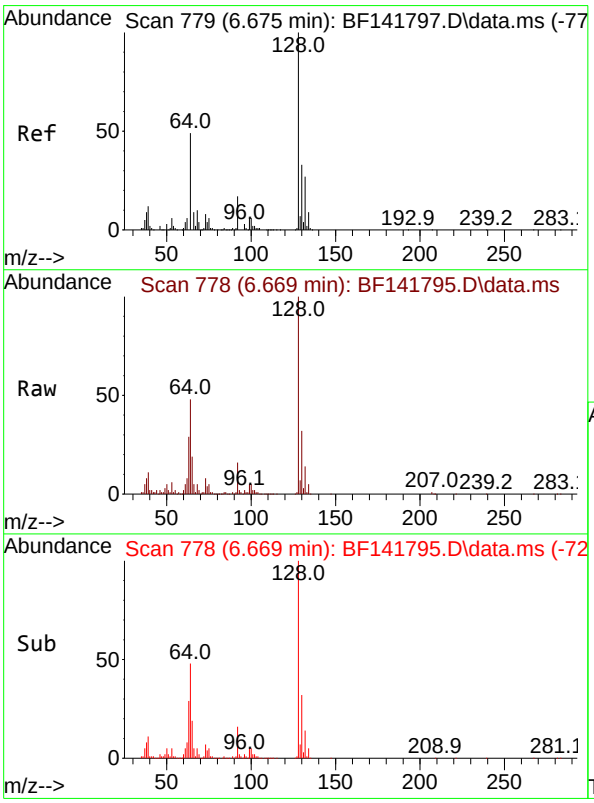
Ion	Ratio	Lower	Upper
99	100		
42	17.9	15.2	22.8
71	33.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

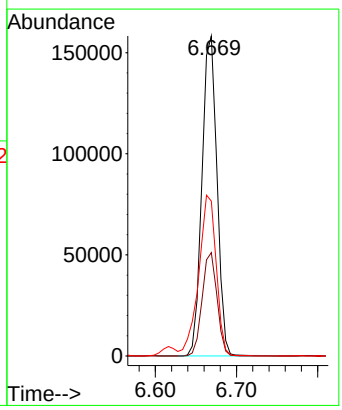
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

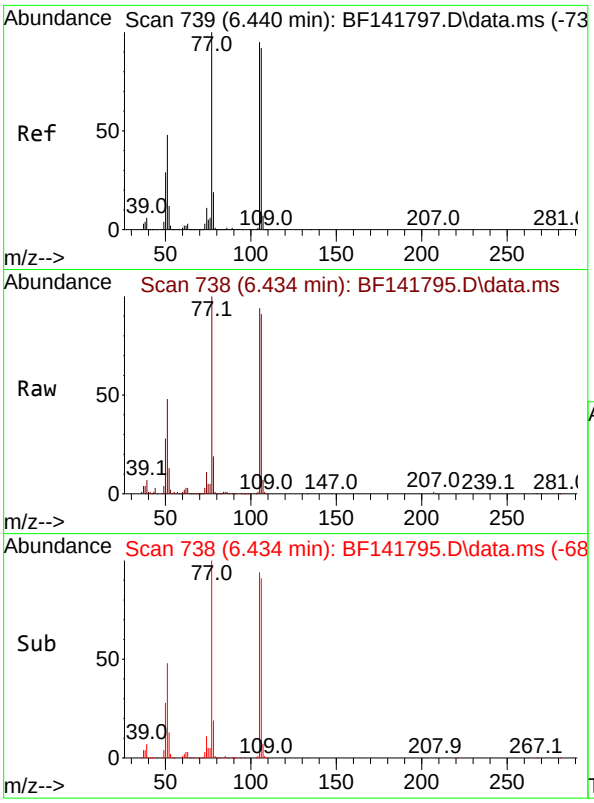


#8
2-Chlorophenol
Concen: 10.375 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

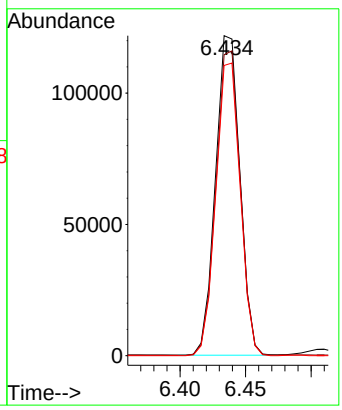




#9
Benzaldehyde
Concen: 11.474 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 15735

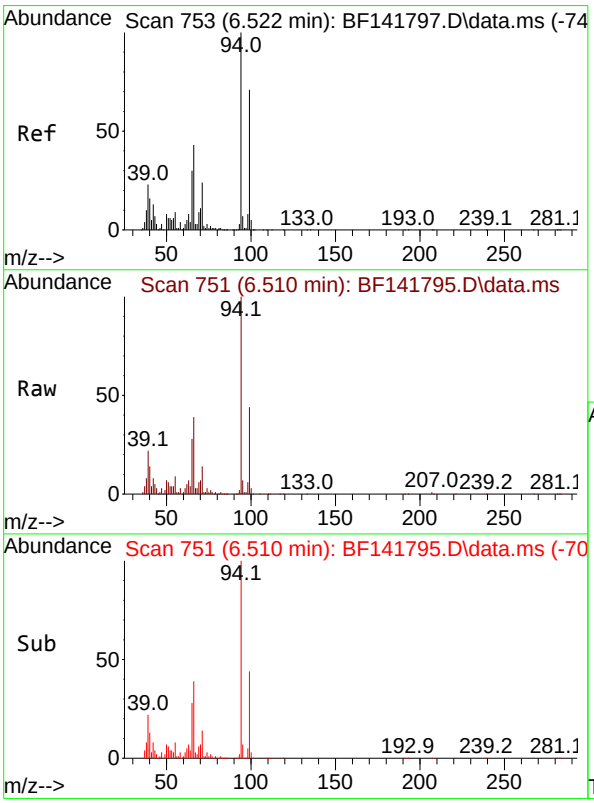
Ion	Ratio	Lower	Upper
77	100		
105	94.0	75.3	115.3
106	90.7	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

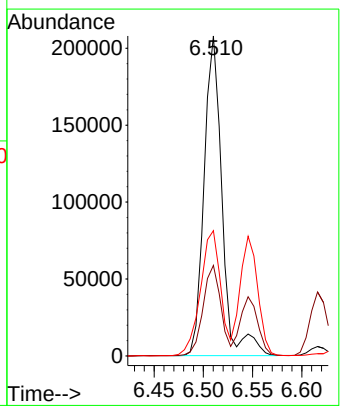
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

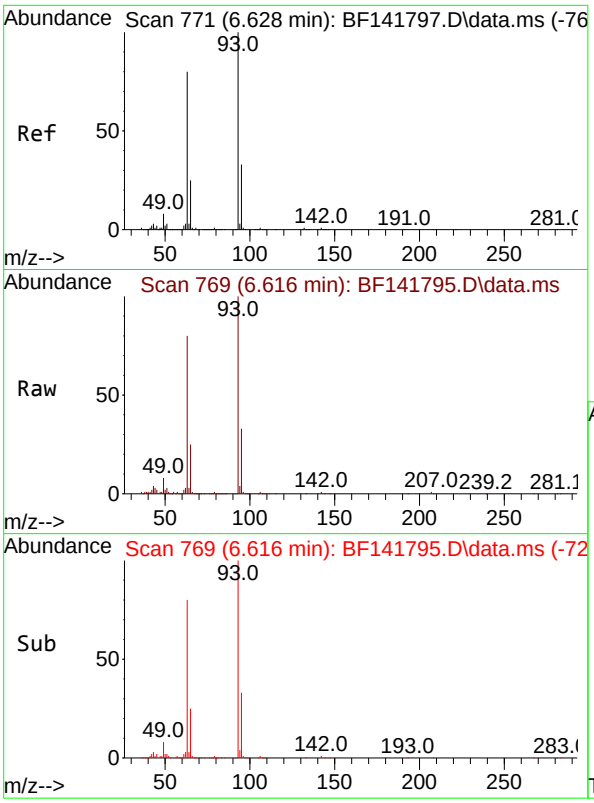


#10
Phenol
Concen: 10.494 ng m
RT: 6.510 min Scan# 751
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

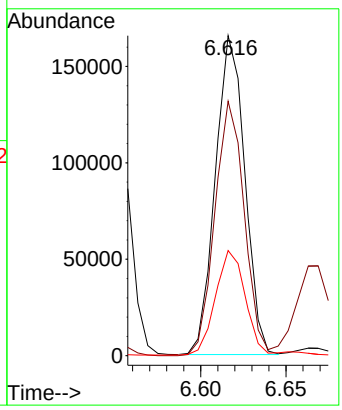




#11
bis(2-Chloroethyl)ether
Concen: 10.362 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 93 Resp: 19899

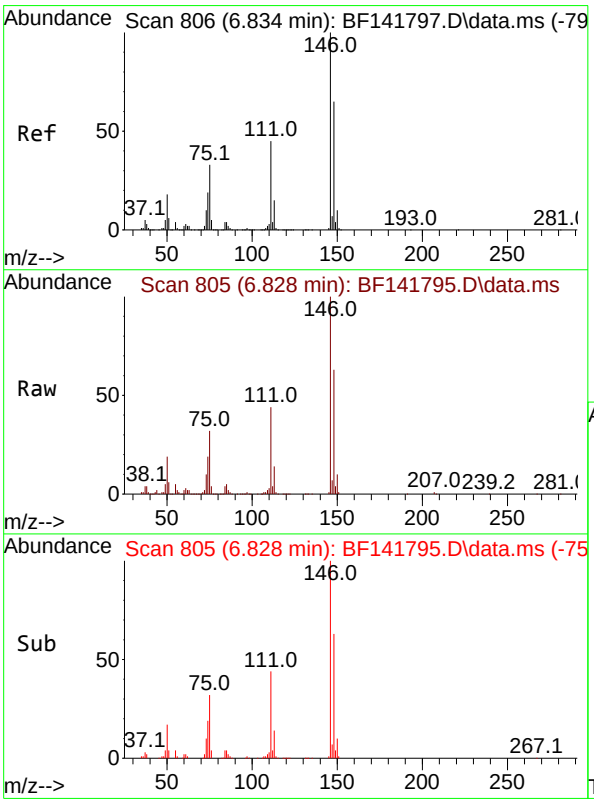
Ion	Ratio	Lower	Upper
93	100		
63	79.5	59.3	99.3
95	32.8	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

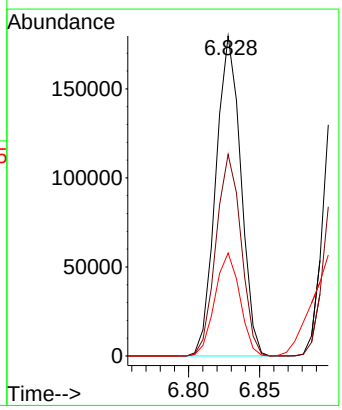
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

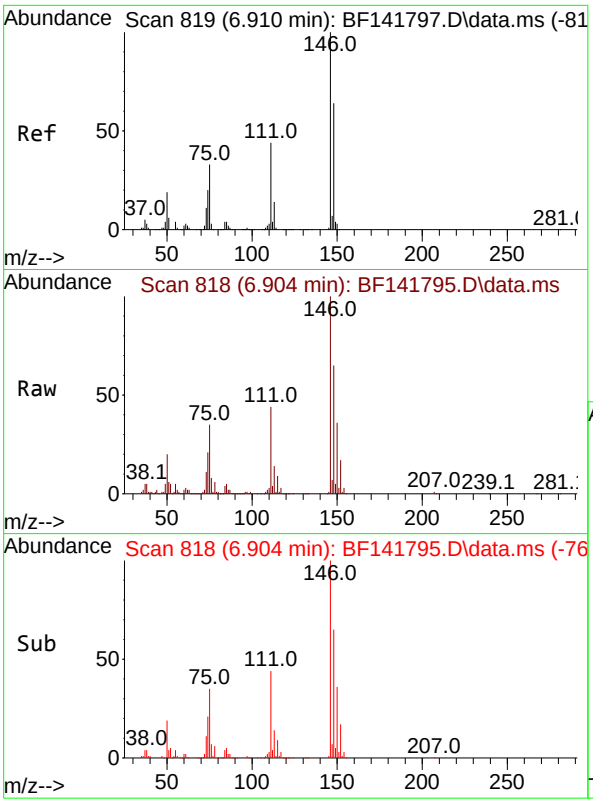


#12
1,3-Dichlorobenzene
Concen: 10.478 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

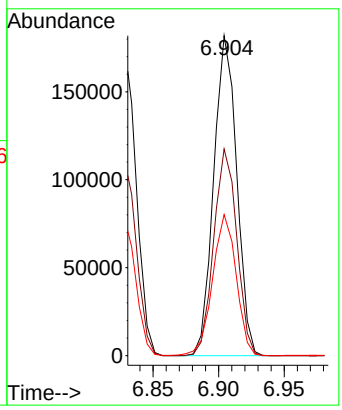




#13
1,4-Dichlorobenzene
Concen: 10.486 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:146 Resp: 22170

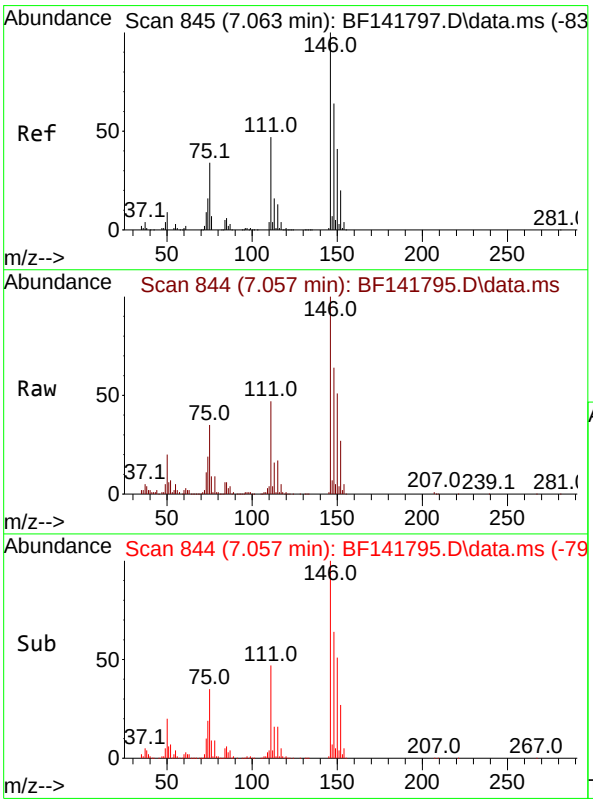
Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.2
111	44.1	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

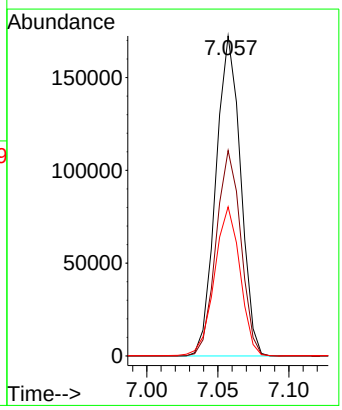
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

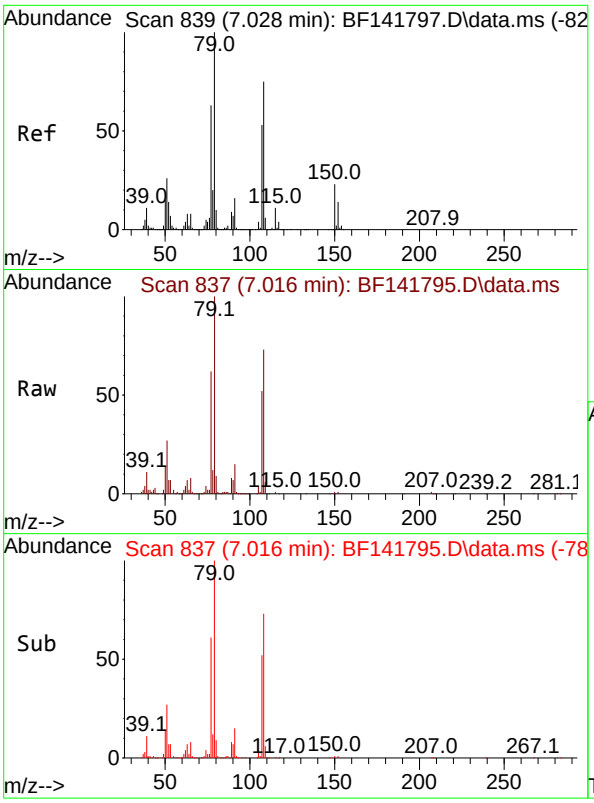


#14
1,2-Dichlorobenzene
Concen: 10.575 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

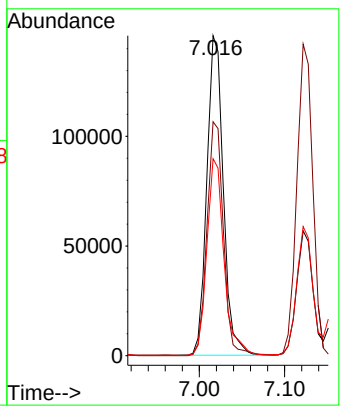
Tgt Ion: 79 Resp: 19564

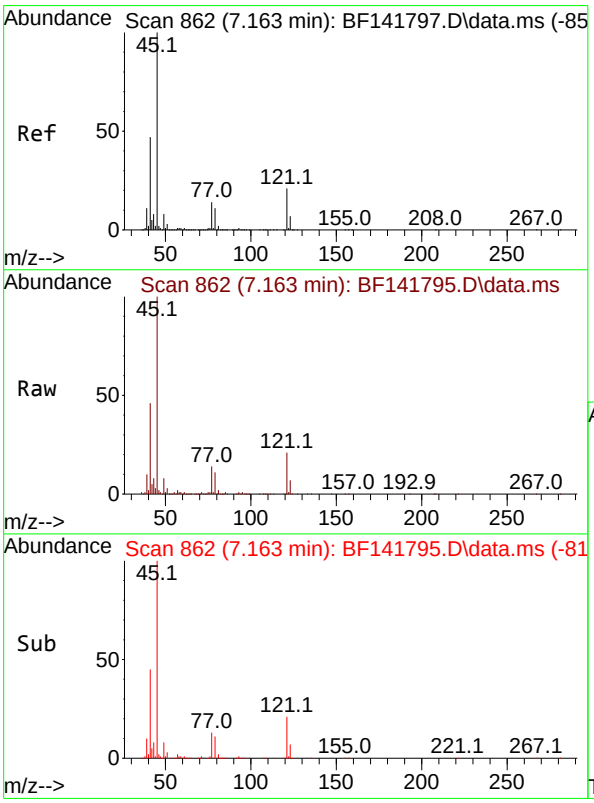
Ion	Ratio	Lower	Upper
79	100		
108	73.1	60.2	90.2
77	61.6	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

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

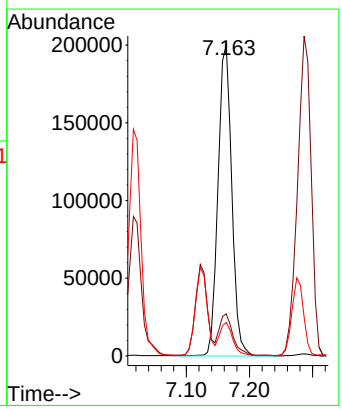


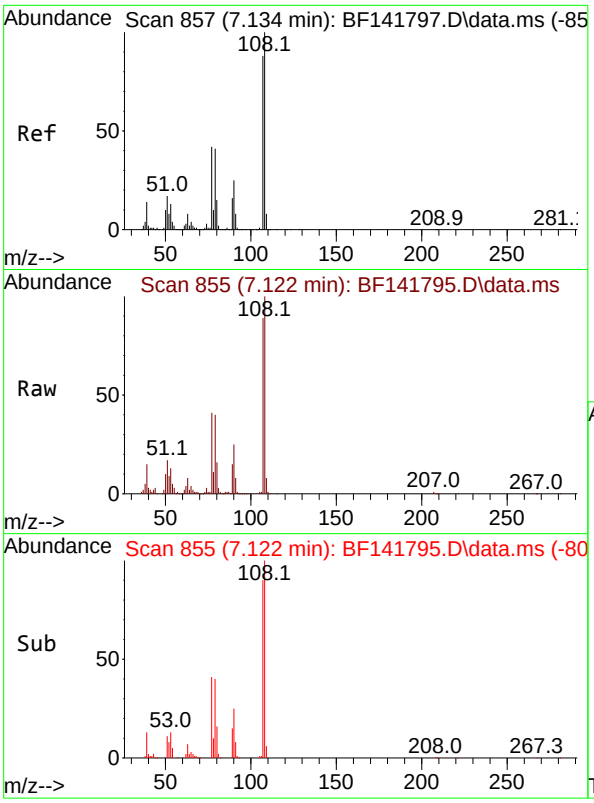


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.387 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

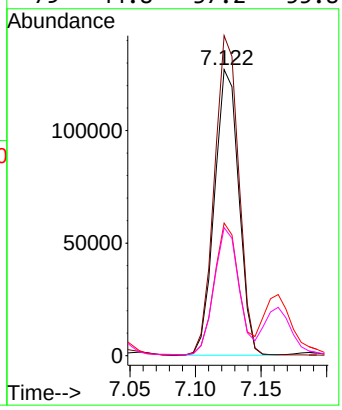




#17
2-Methylphenol
Concen: 10.121 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:107 Resp: 16369

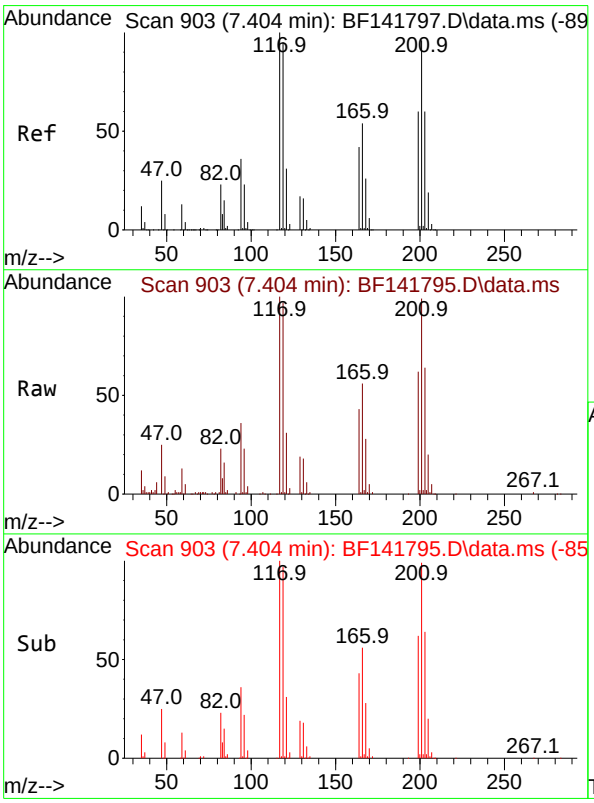
Ion	Ratio	Lower	Upper
107	100		
108	111.8	90.6	135.8
77	46.3	37.7	56.5
79	44.8	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

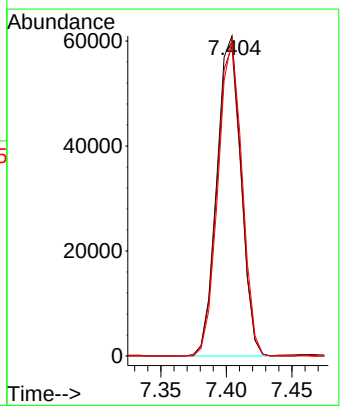
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

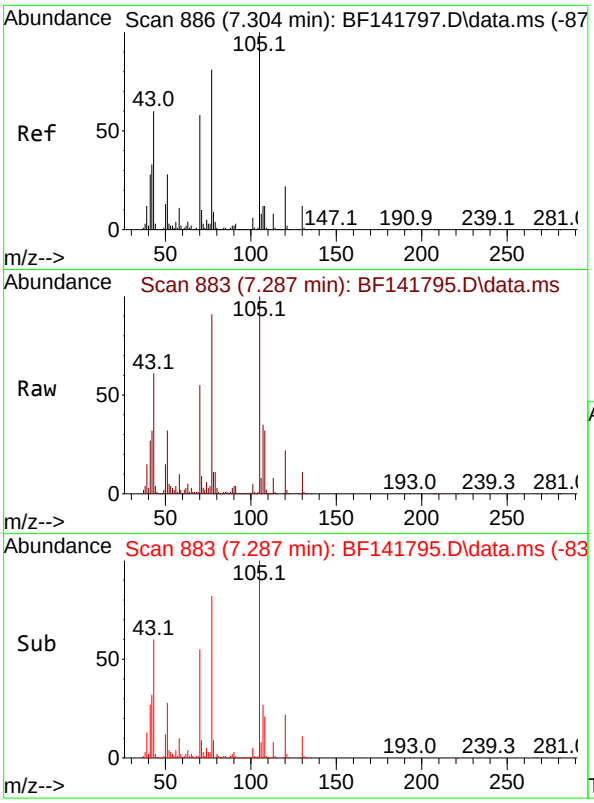


#18
Hexachloroethane
Concen: 9.899 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

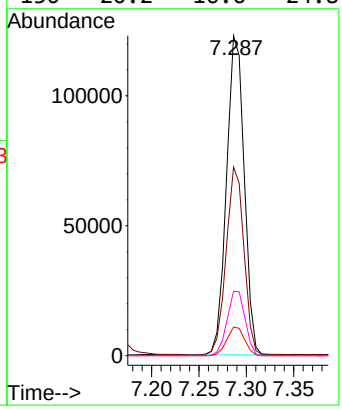




#19
n-Nitroso-di-n-propylamine
Concen: 10.315 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 70 Resp: 15986

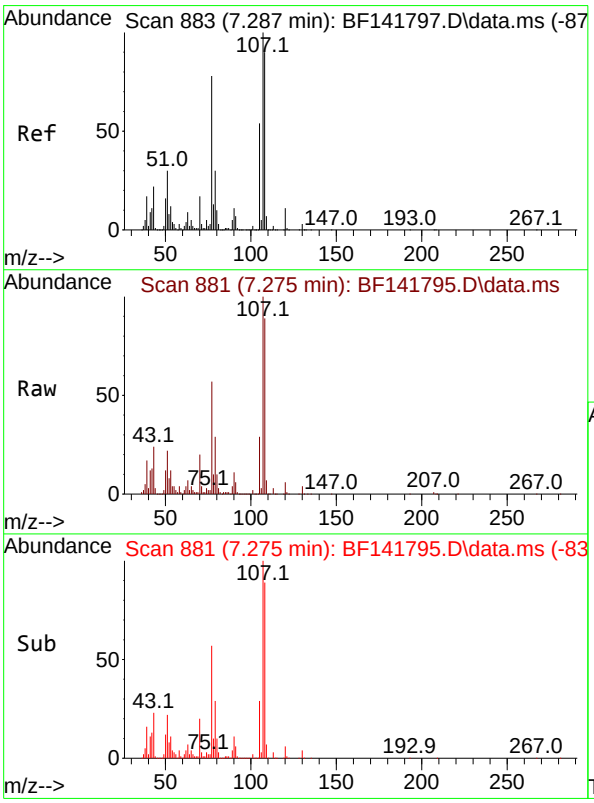
Ion	Ratio	Lower	Upper
70	100		
42	58.9	45.4	68.0
101	8.9	7.8	11.8
130	20.2	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

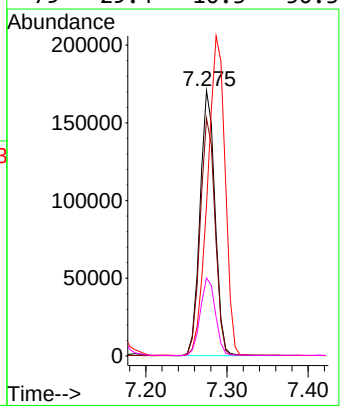
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

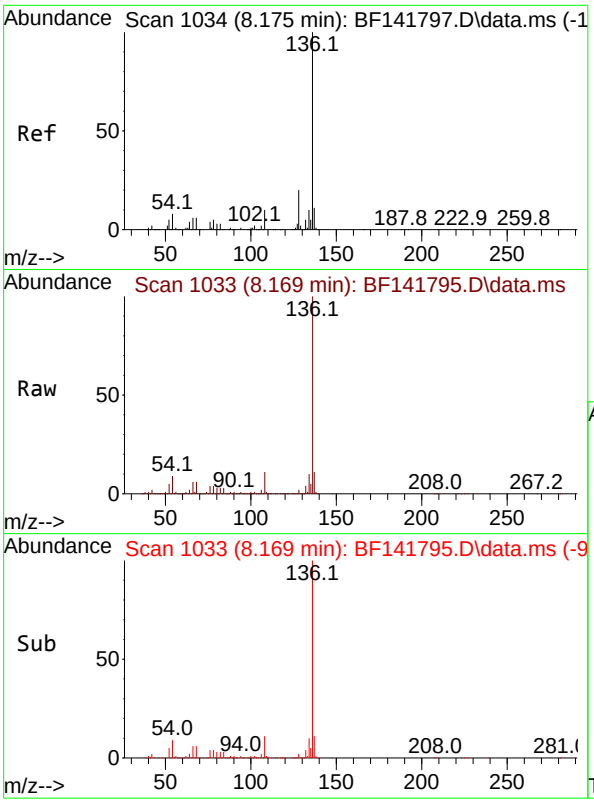


#20
3+4-Methylphenols
Concen: 10.842 ng
RT: 7.275 min Scan# 881
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

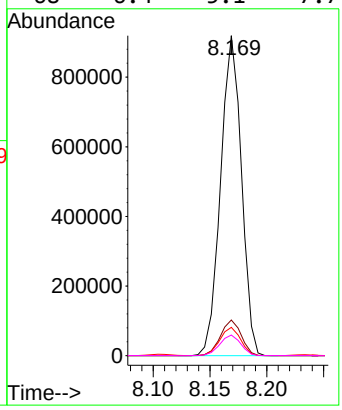




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:136 Resp: 117383

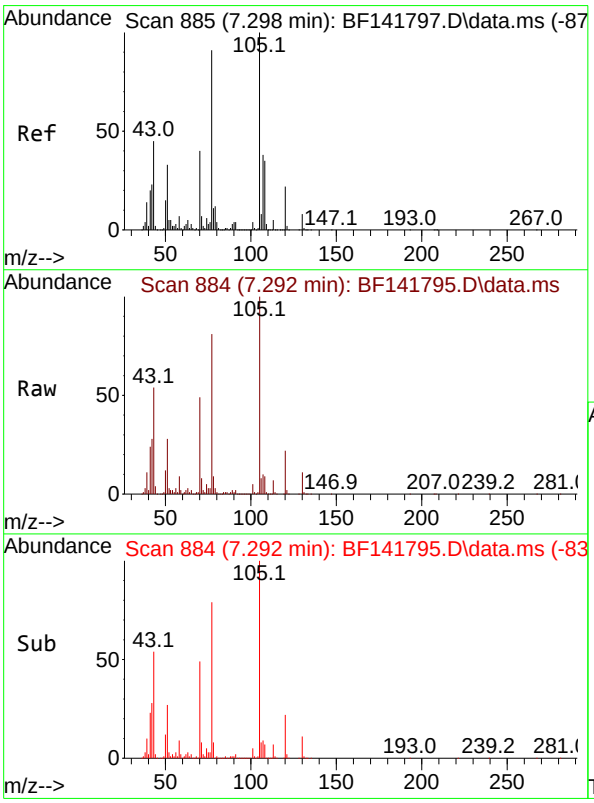
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.8	6.9	10.3
68	6.4	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

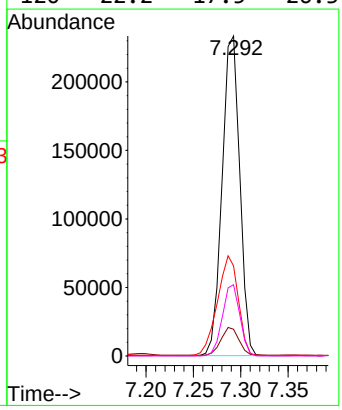
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

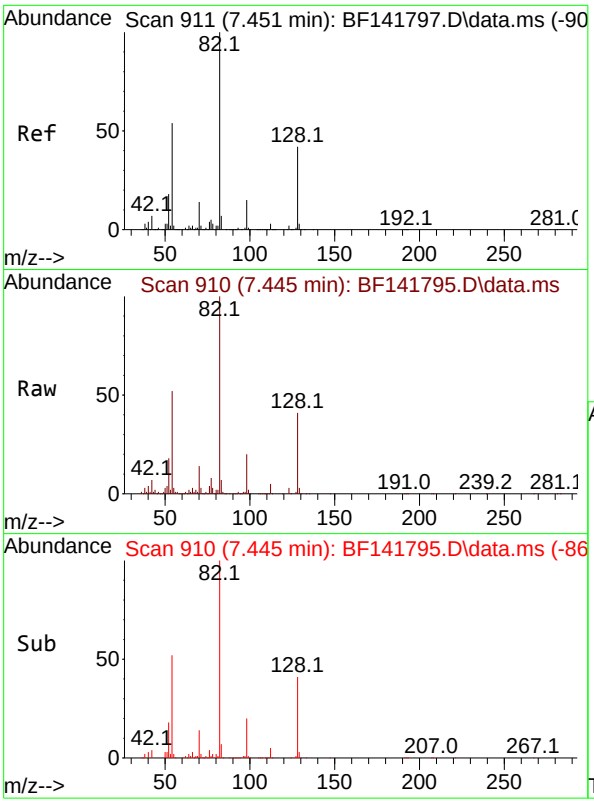


#22
Acetophenone
Concen: 10.606 ng
RT: 7.292 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

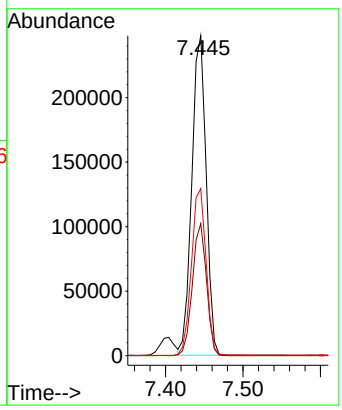




#23
Nitrobenzene-d5
Concen: 17.336 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 82 Resp: 31836

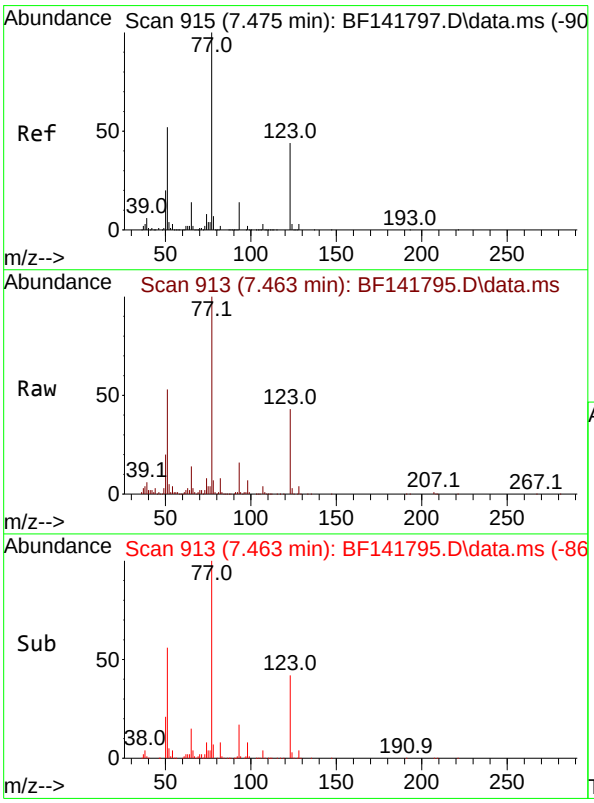
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.5	50.3
54	52.2	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

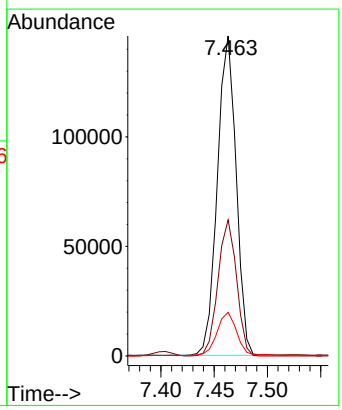
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

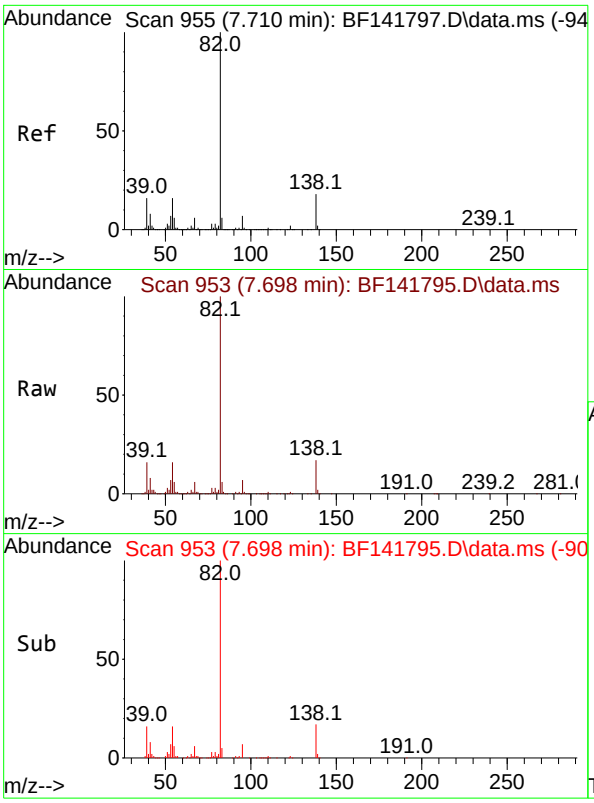


#24
Nitrobenzene
Concen: 9.057 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

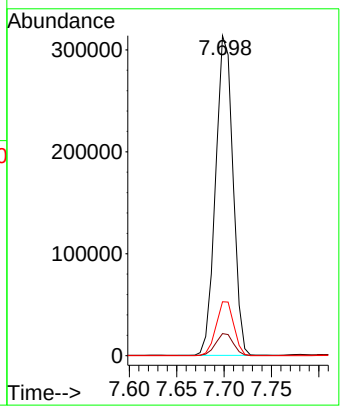




#25
Isophorone
Concen: 10.145 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 82 Resp: 40022

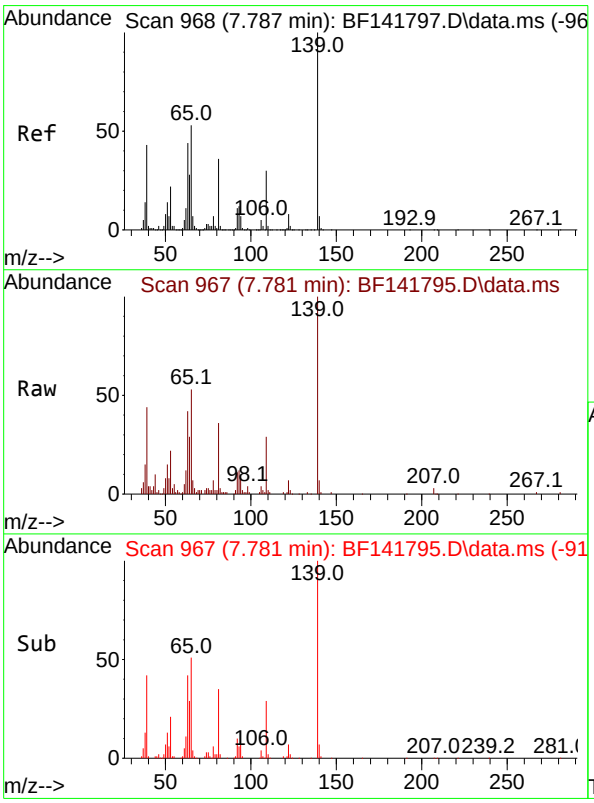
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.8	8.8
138	16.9	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

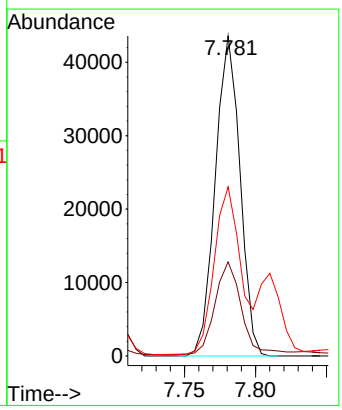
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

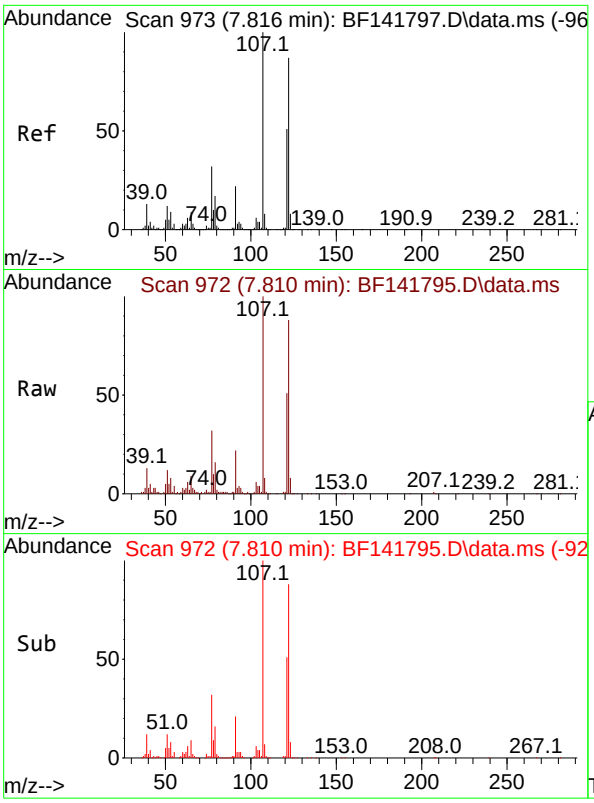


#26
2-Nitrophenol
Concen: 9.980 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

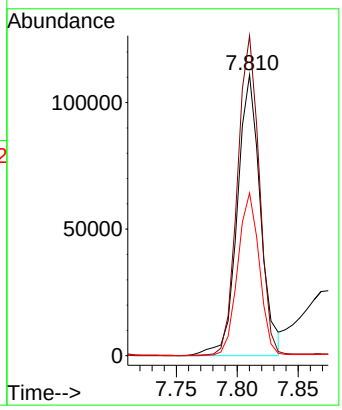




#27
2,4-Dimethylphenol
Concen: 10.103 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:122 Resp: 14651

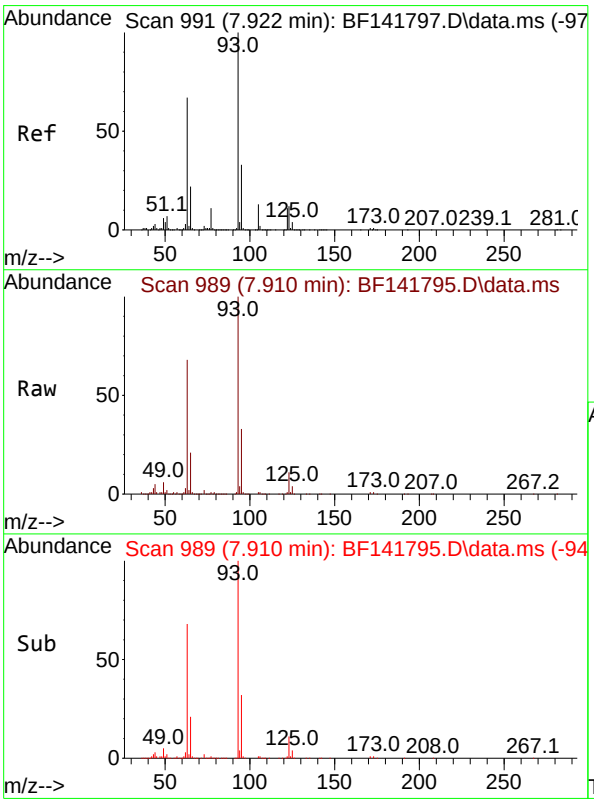
Ion	Ratio	Lower	Upper
122	100		
107	113.9	92.5	138.7
121	57.9	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

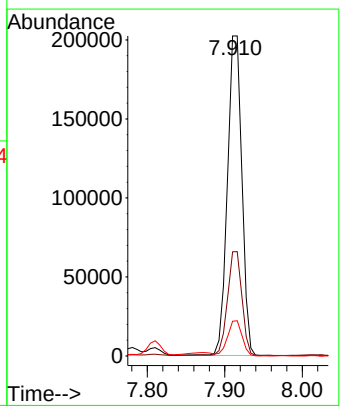
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

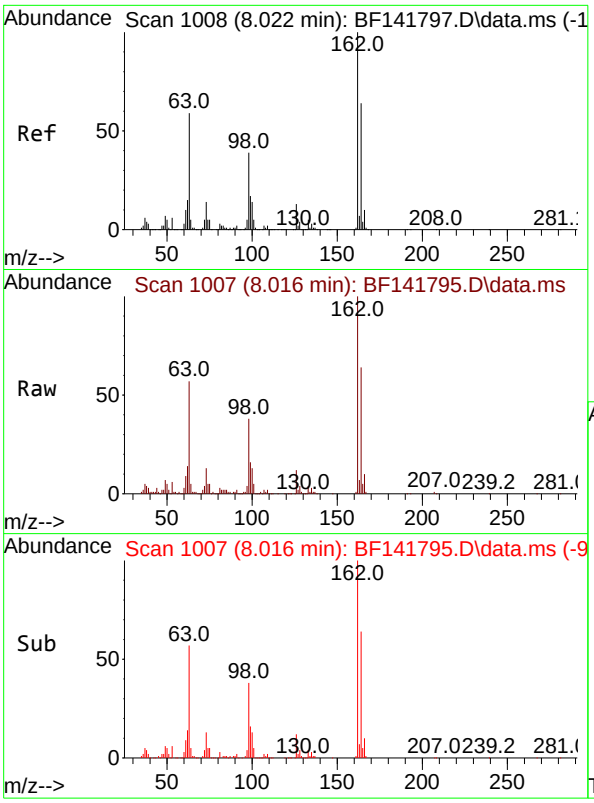


#28
bis(2-Chloroethoxy)methane
Concen: 10.445 ng
RT: 7.910 min Scan# 989
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

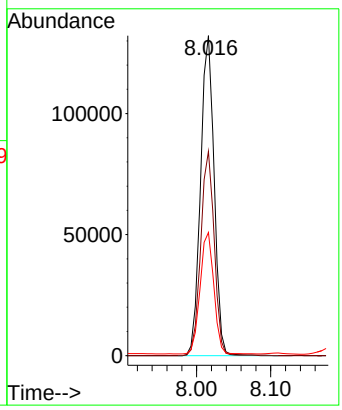




#29
2,4-Dichlorophenol
Concen: 10.114 ng
RT: 8.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:162 Resp: 16921(

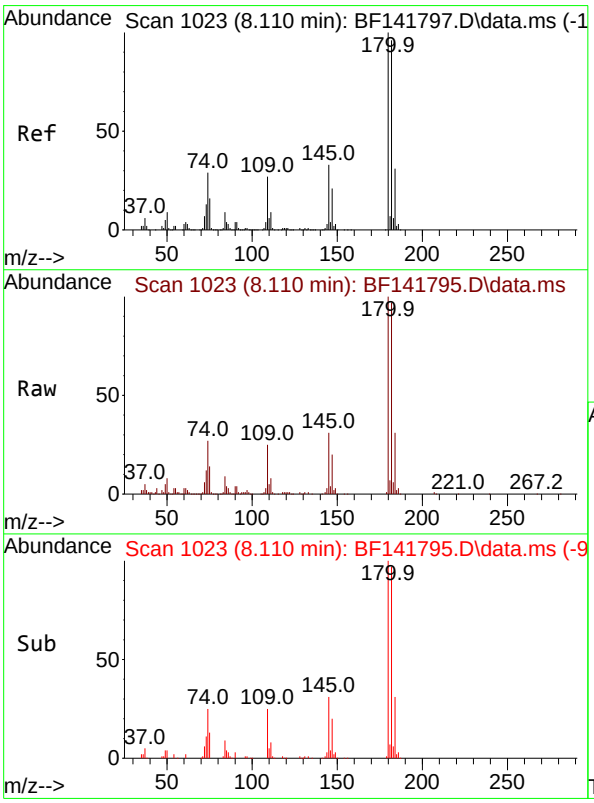
Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.3	84.3
98	38.5	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

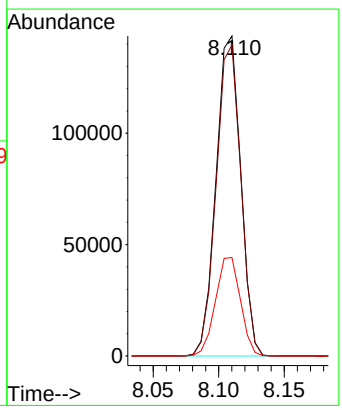
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

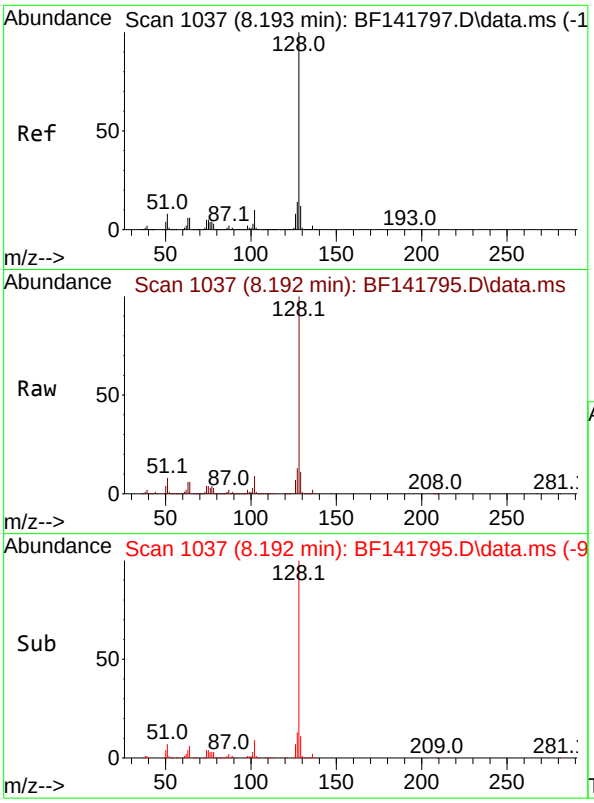


#30
1,2,4-Trichlorobenzene
Concen: 10.271 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

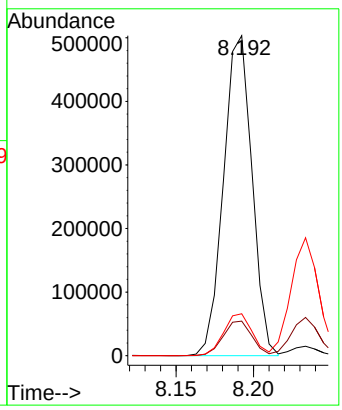




#31
Naphthalene
Concen: 10.668 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:128 Resp: 64362

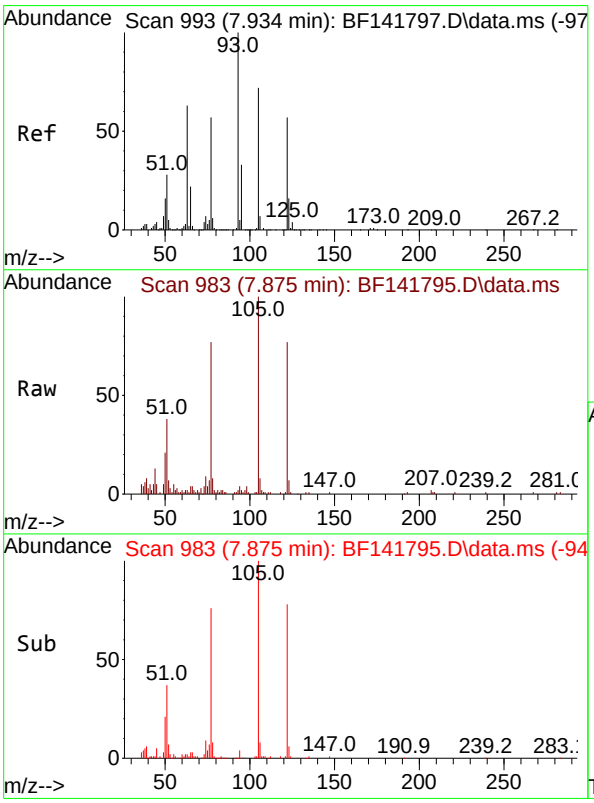
Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.2	13.8
127	13.1	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

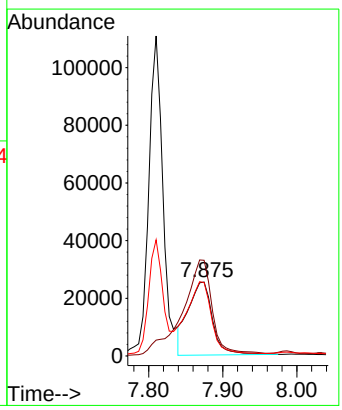
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

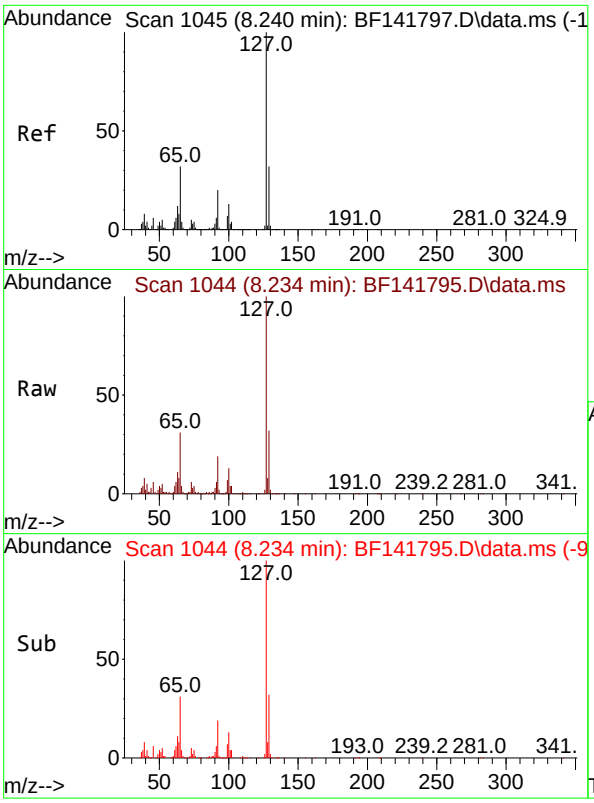


#32
Benzoic acid
Concen: 11.729 ng
RT: 7.875 min Scan# 983
Delta R.T. -0.059 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

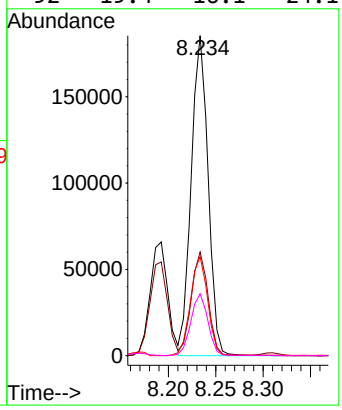




#33
4-Chloroaniline
Concen: 10.413 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:127 Resp: 23034

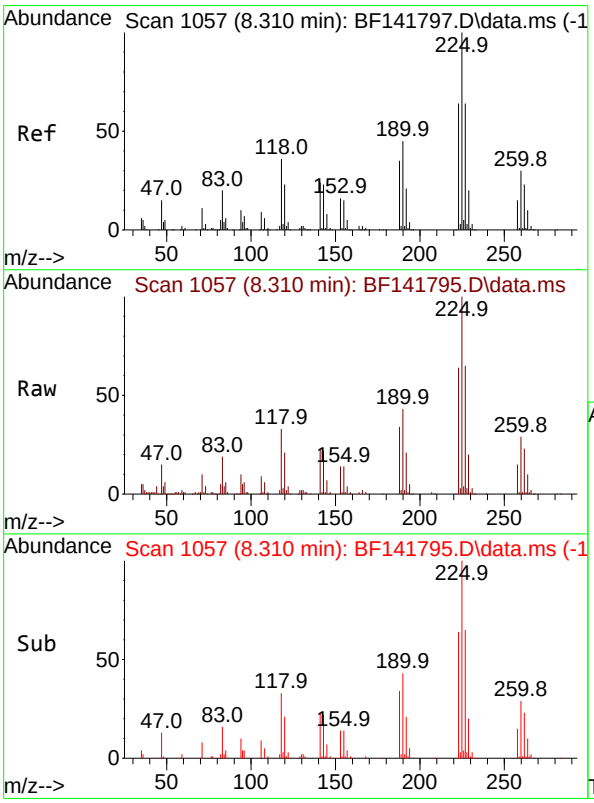
Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.1	39.1
65	30.9	25.7	38.5
92	19.4	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

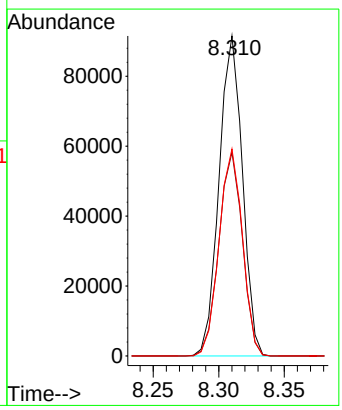
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

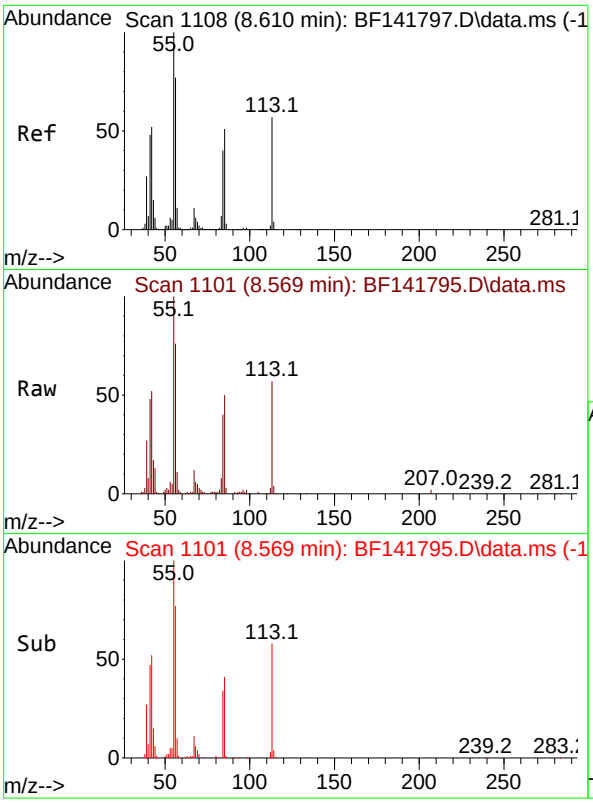


#34
Hexachlorobutadiene
Concen: 9.931 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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# 11
Delta R.T. -0.041 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

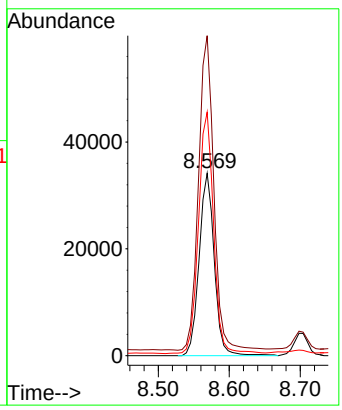
Tgt Ion:113 Resp: 5073

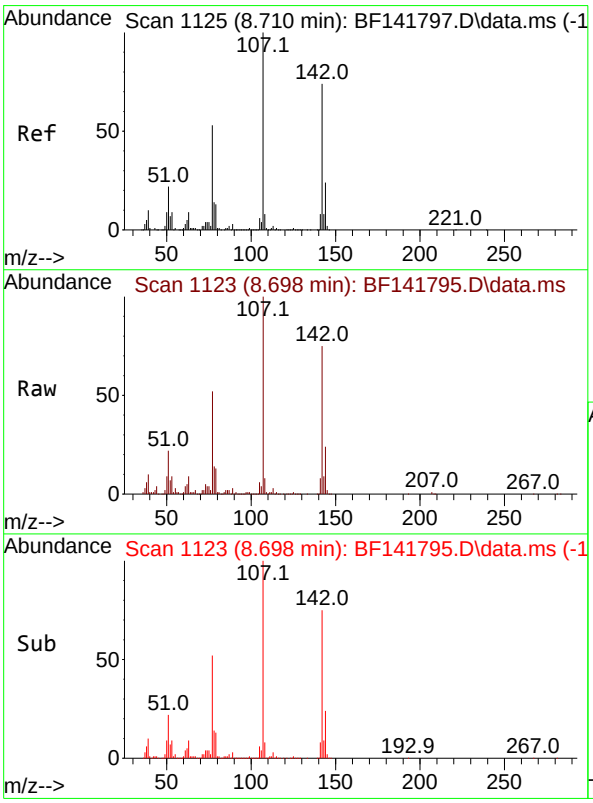
Ion	Ratio	Lower	Upper
113	100		
55	175.4	155.6	195.6
56	133.5	114.6	154.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

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

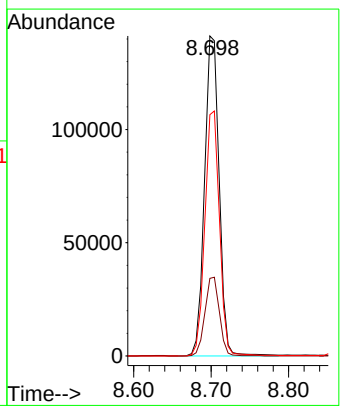


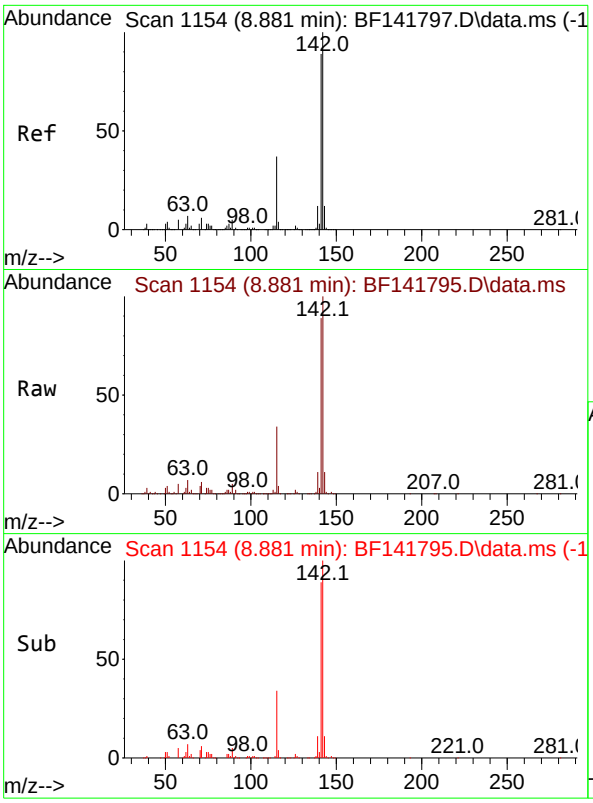


#36
4-Chloro-3-methylphenol
Concen: 9.987 ng
RT: 8.698 min Scan# 1123
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

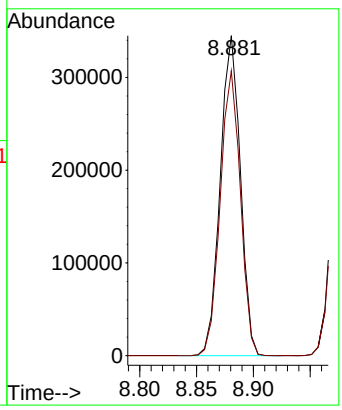




#37
2-Methylnaphthalene
Concen: 10.758 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 42572

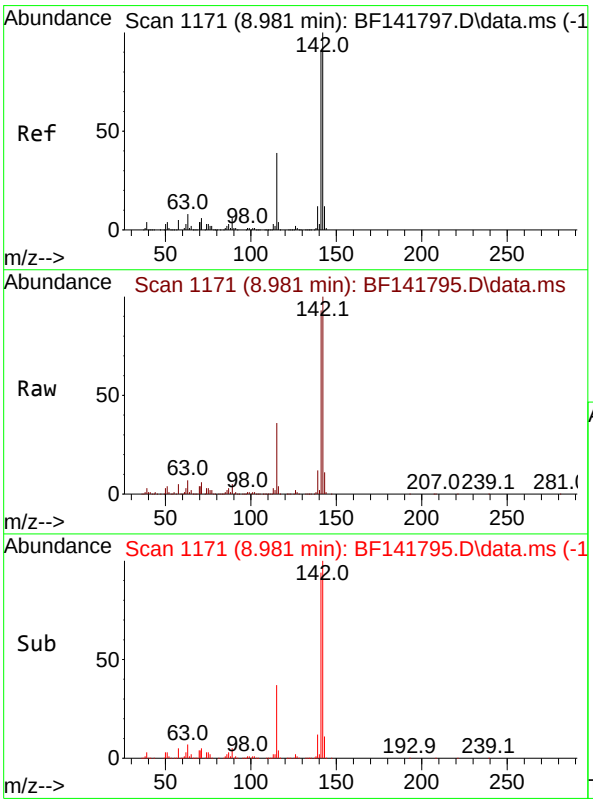
Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

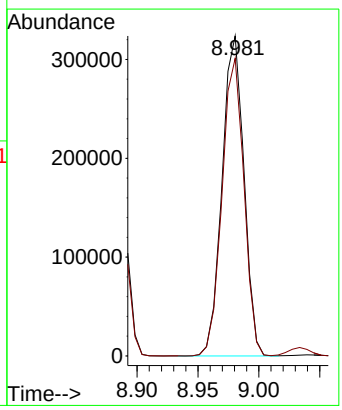
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

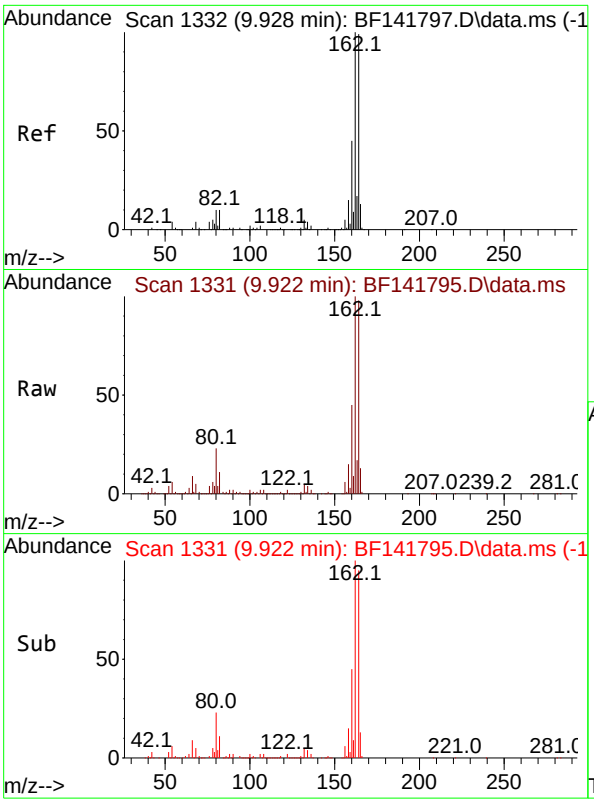


#38
1-Methylnaphthalene
Concen: 10.642 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:142 Resp: 404087

Ion	Ratio	Lower	Upper
142	100		
141	93.0	73.1	109.7

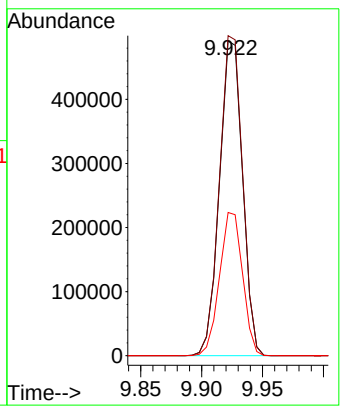




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:164 Resp: 64790

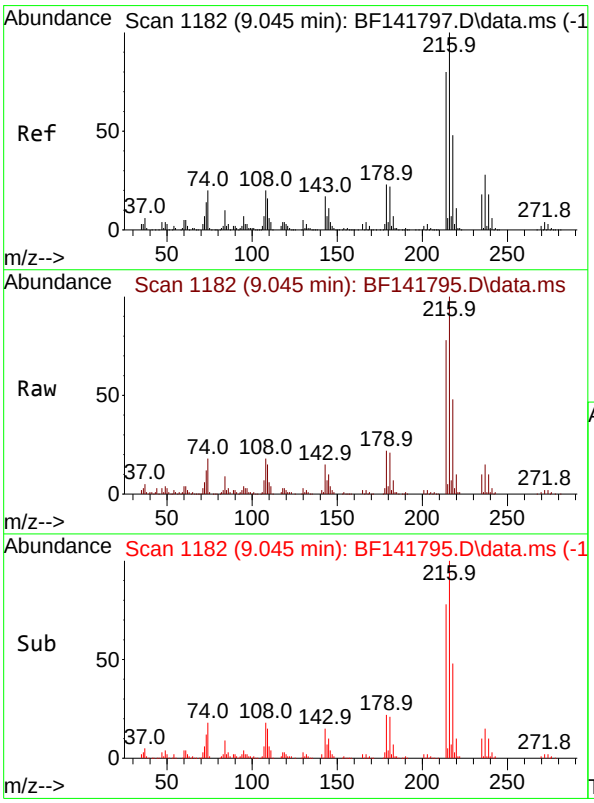
Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.5	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

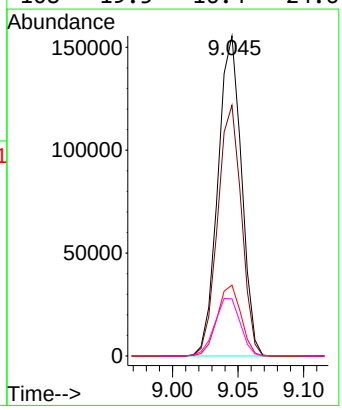
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

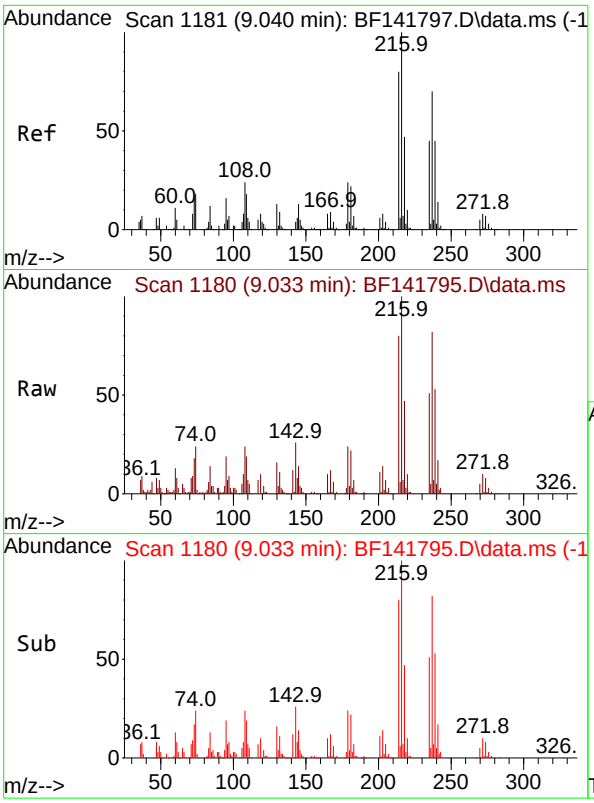


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.386 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

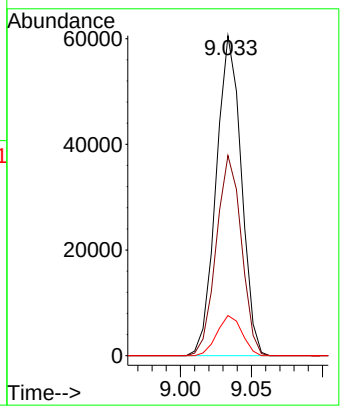




#41
Hexachlorocyclopentadiene
Concen: 9.533 ng
RT: 9.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:237 Resp: 7444

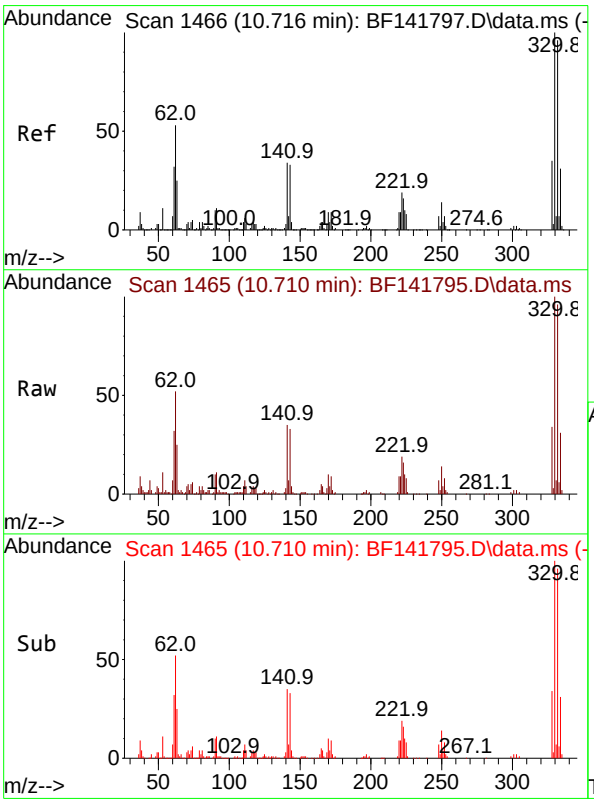
Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.3	83.3
272	12.5	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

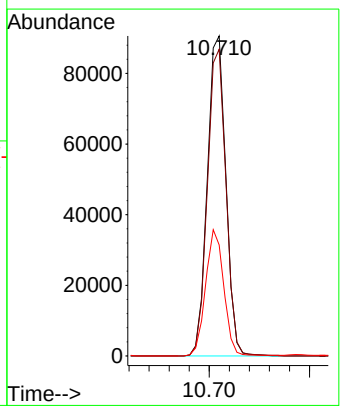
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

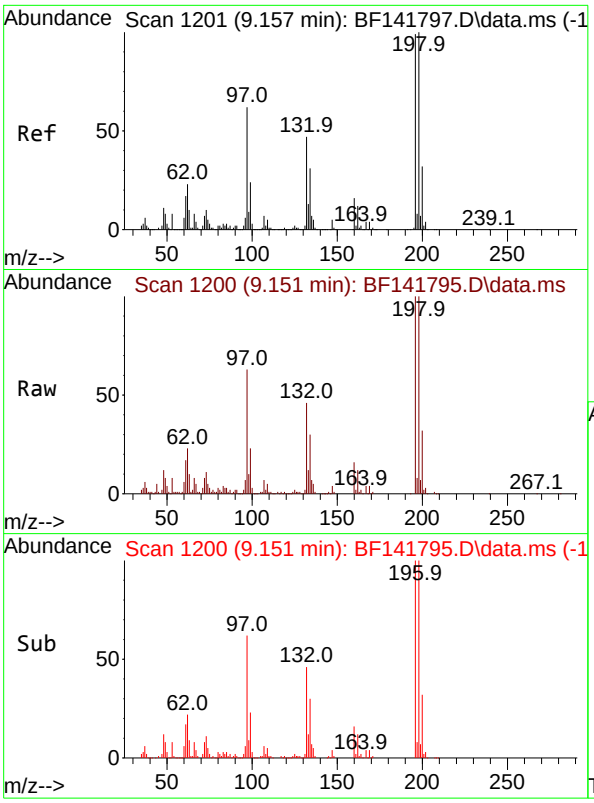


#42
2,4,6-Tribromophenol
Concen: 19.078 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

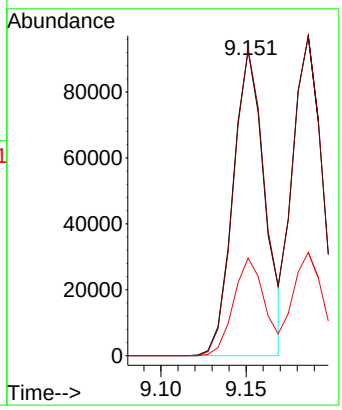




#43
2,4,6-Trichlorophenol
Concen: 9.864 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:196 Resp: 11923

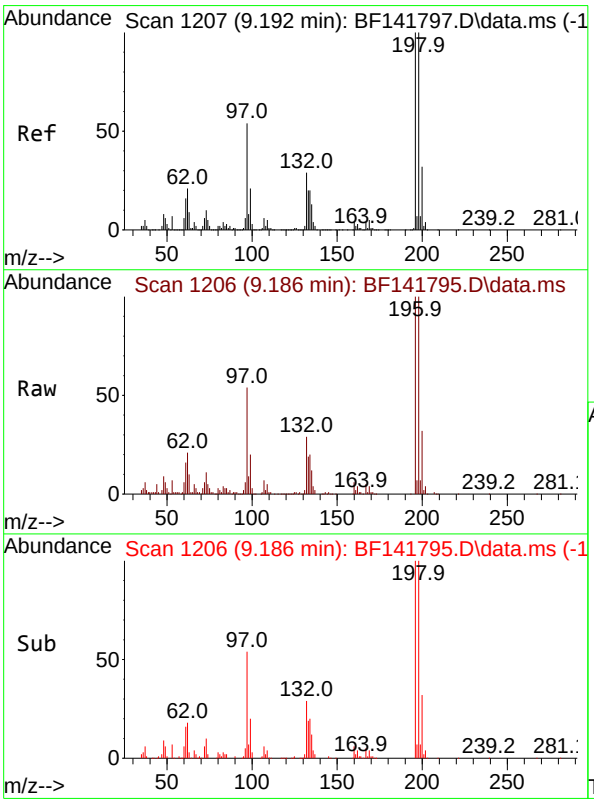
Ion	Ratio	Lower	Upper
196	100		
198	100.4	80.4	120.6
200	32.0	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

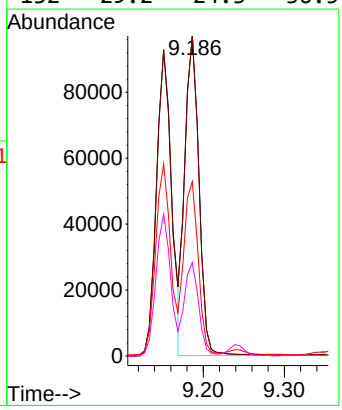
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

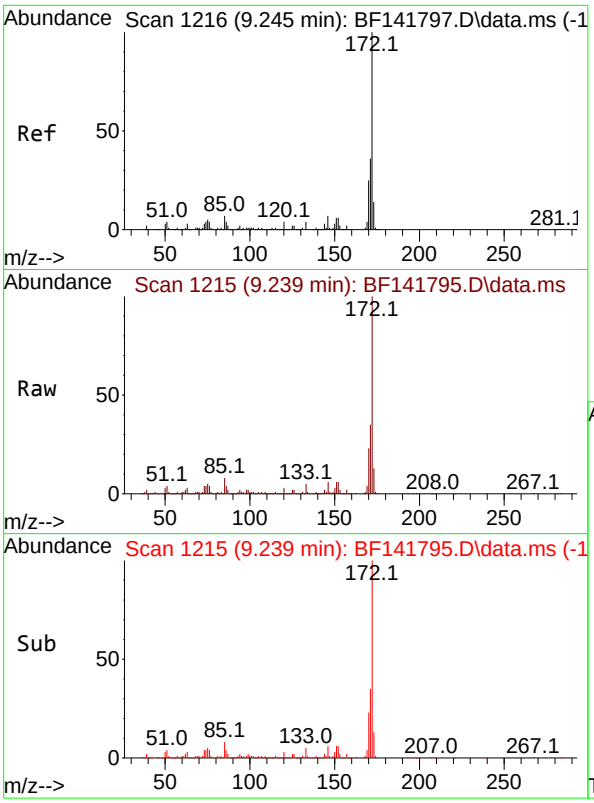


#44
2,4,5-Trichlorophenol
Concen: 9.860 ng
RT: 9.186 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

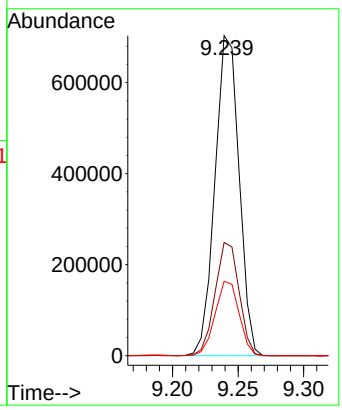




#45
2-Fluorobiphenyl
Concen: 22.244 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:172 Resp: 89879

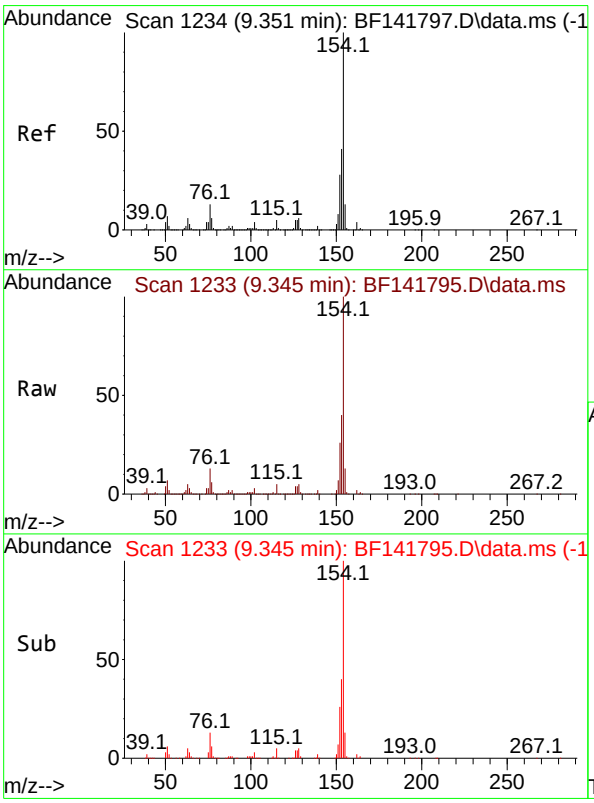
Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.3	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

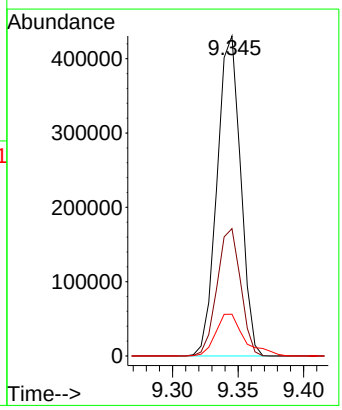
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

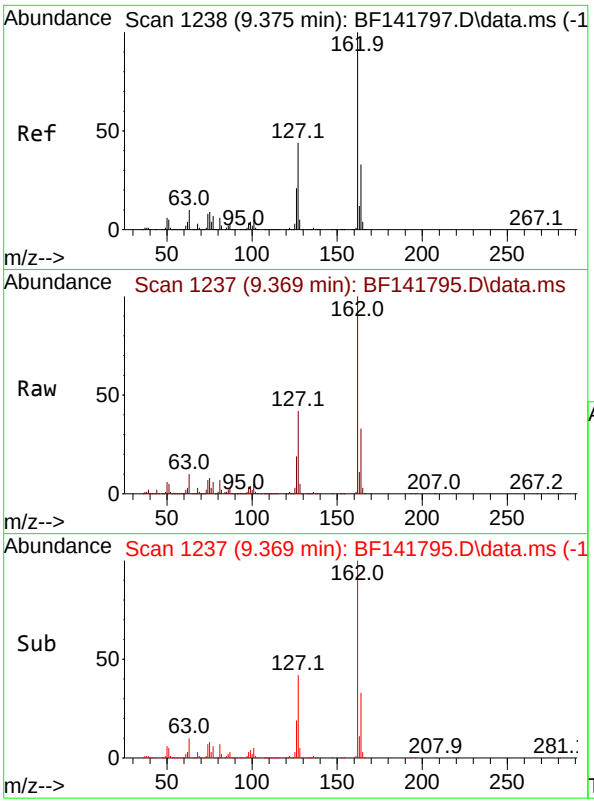


#46
1,1'-Biphenyl
Concen: 10.896 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

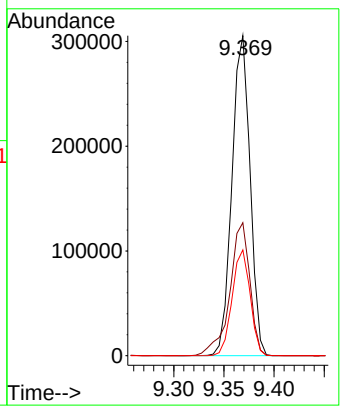




#47
2-Chloronaphthalene
Concen: 10.535 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:162 Resp: 38344

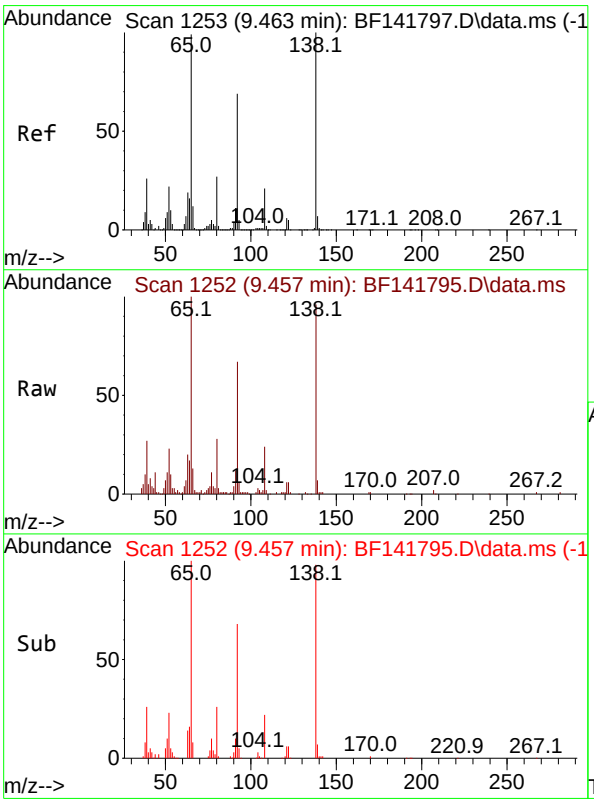
Ion	Ratio	Lower	Upper
162	100		
127	41.5	35.0	52.6
164	33.1	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

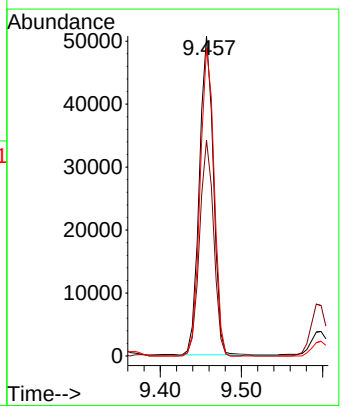
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

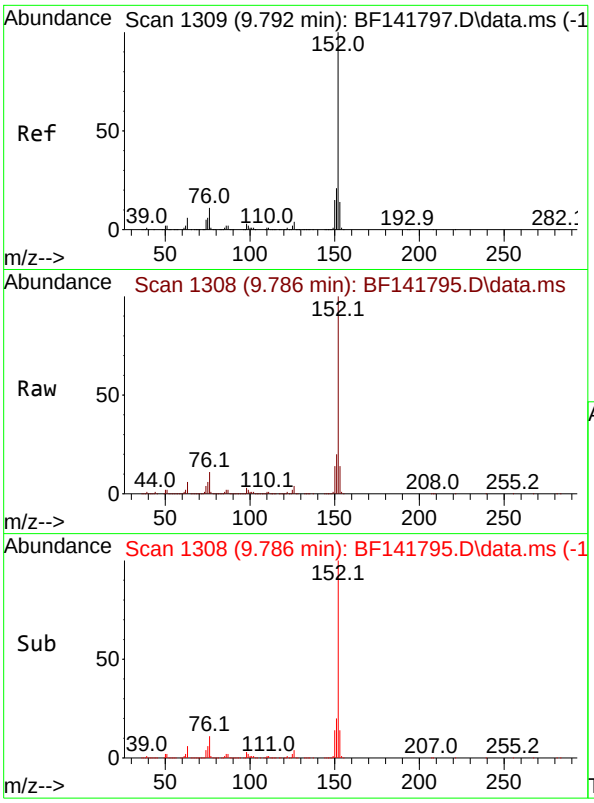


#48
2-Nitroaniline
Concen: 9.877 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

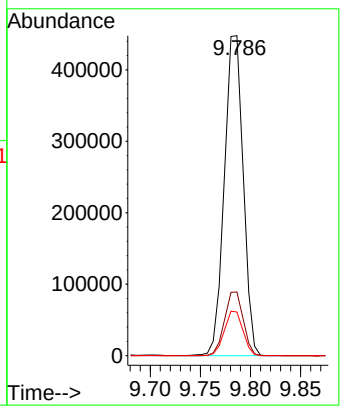




#49
Acenaphthylene
Concen: 10.739 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:152 Resp: 58606

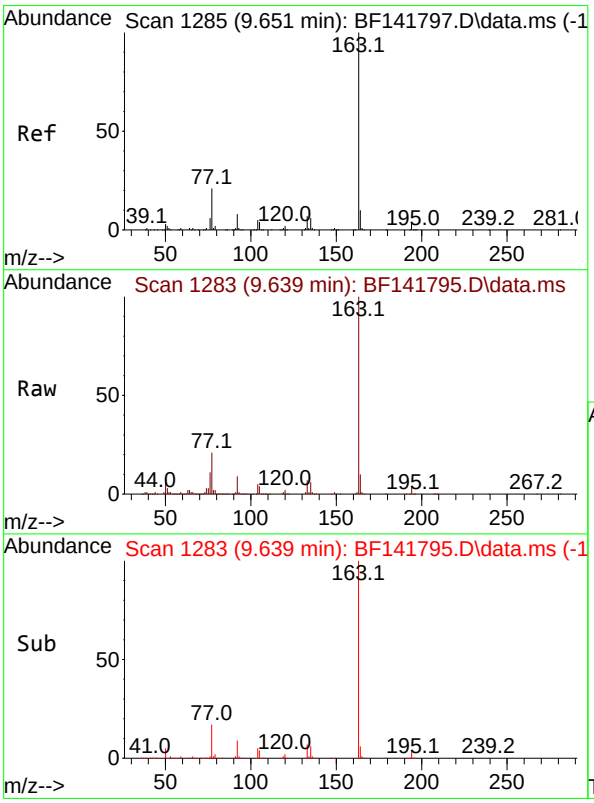
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	24.8
153	13.7	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

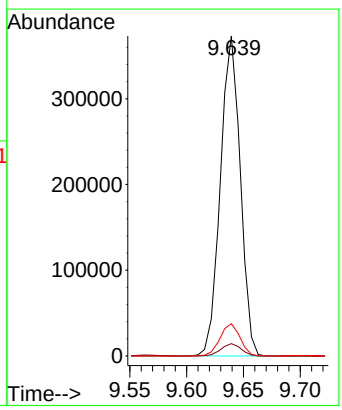
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

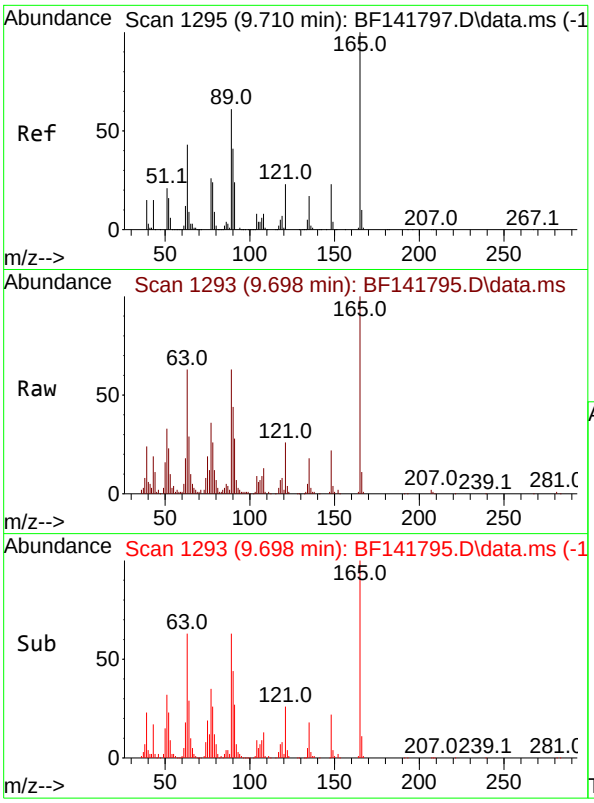


#50
Dimethylphthalate
Concen: 10.491 ng
RT: 9.639 min Scan# 1283
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

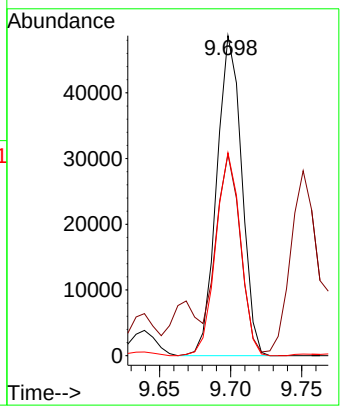




#51
2,6-Dinitrotoluene
Concen: 9.588 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:165 Resp: 5961

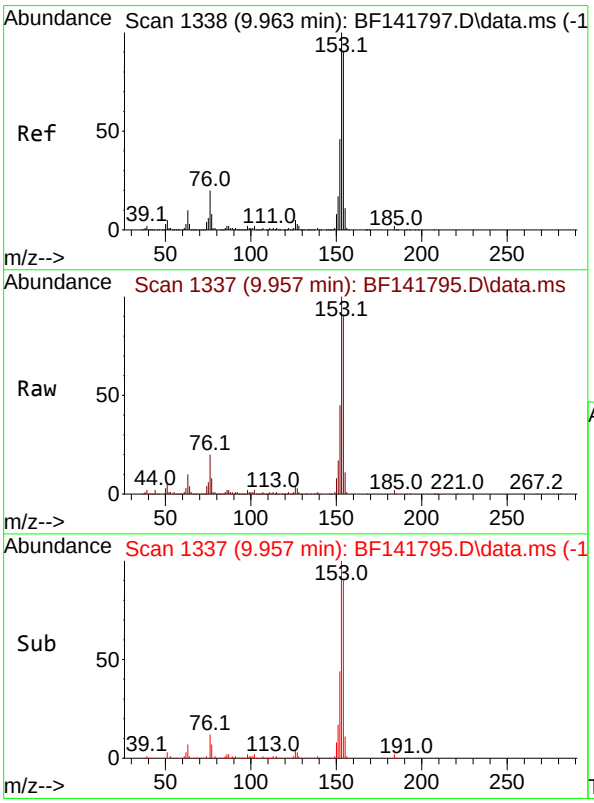
Ion	Ratio	Lower	Upper
165	100		
63	62.9	49.5	74.3
89	63.4	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

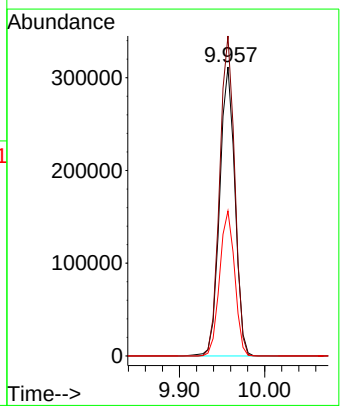
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

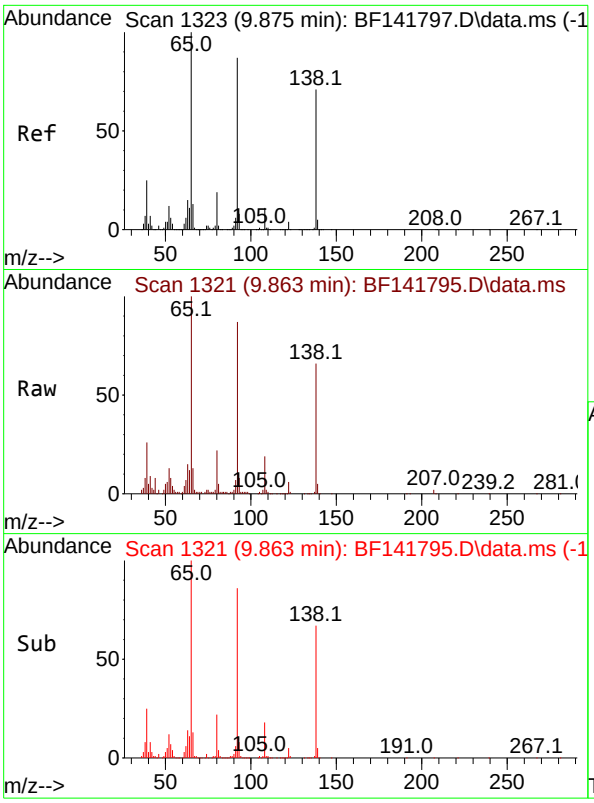


#52
Acenaphthene
Concen: 10.568 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

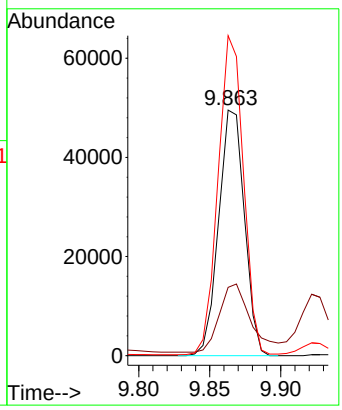




#53
3-Nitroaniline
Concen: 9.606 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:138 Resp: 6256

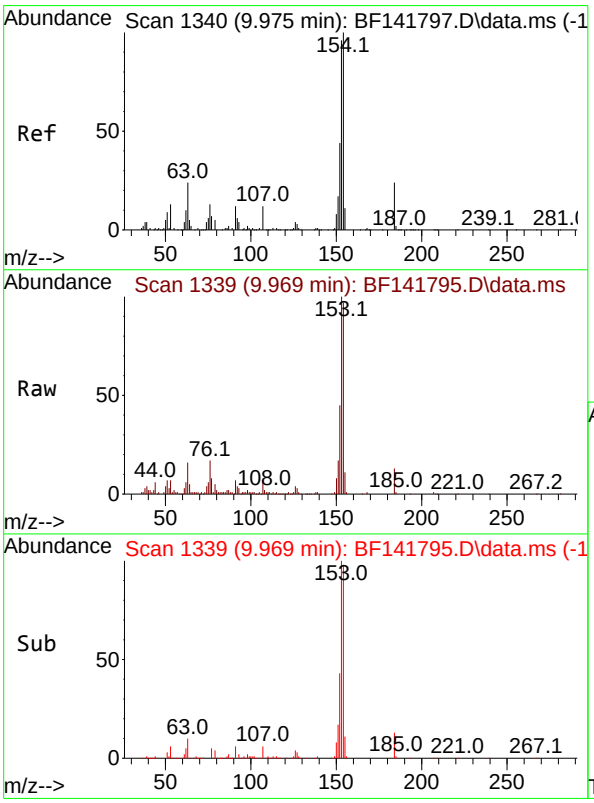
Ion	Ratio	Lower	Upper
138	100		
108	27.8	12.7	19.1#
92	130.3	97.9	146.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

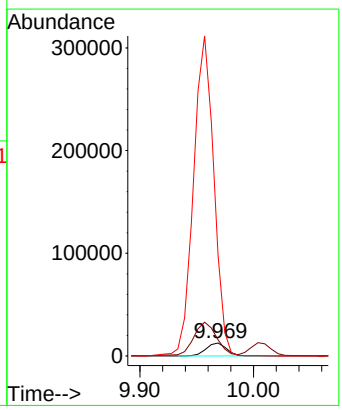
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

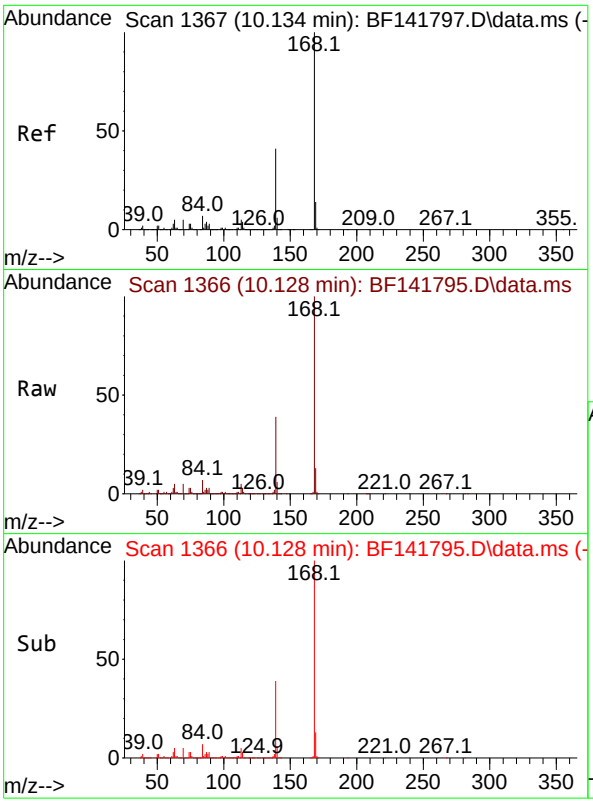


#54
2,4-Dinitrophenol
Concen: 10.881 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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#

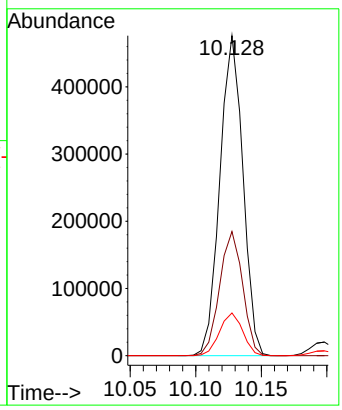




#55
Dibenzofuran
Concen: 10.843 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:168 Resp: 58112

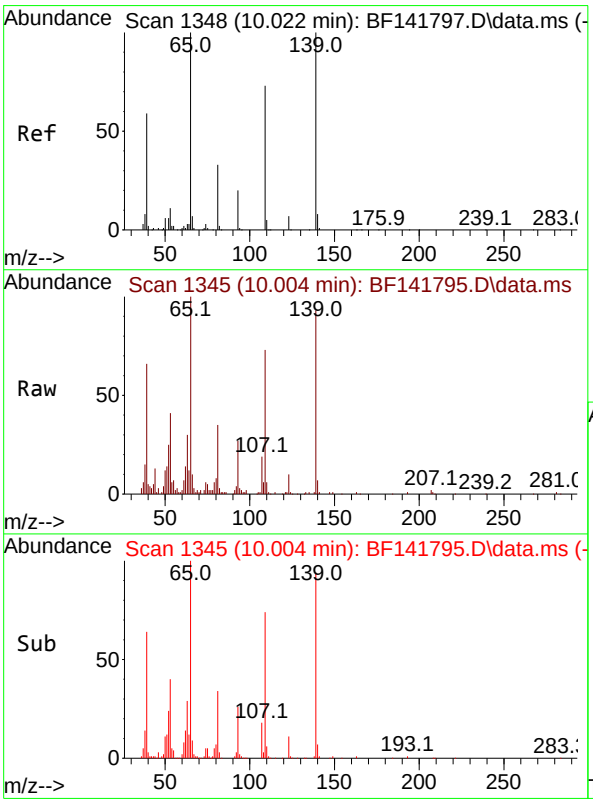
Ion	Ratio	Lower	Upper
168	100		
139	38.8	32.9	49.3
169	13.4	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

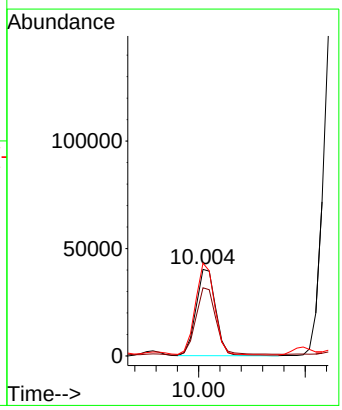
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

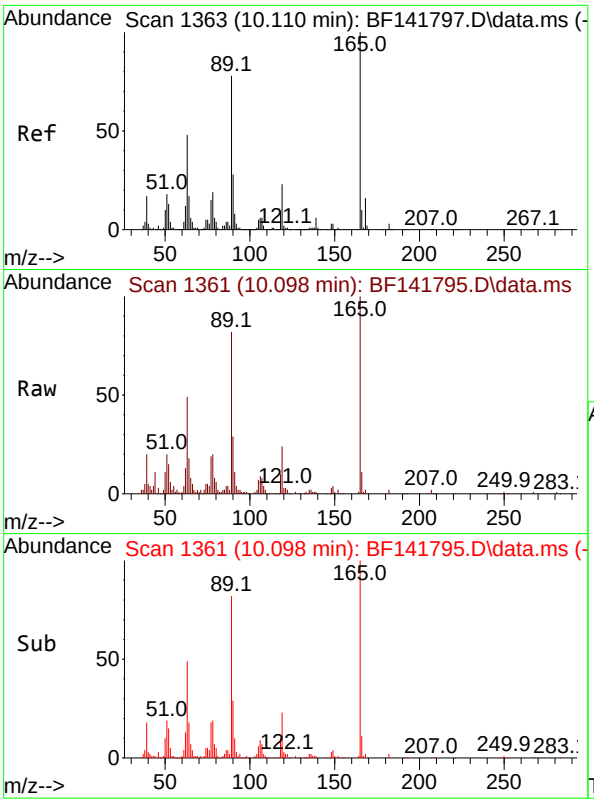


#56
4-Nitrophenol
Concen: 8.022 ng
RT: 10.004 min Scan# 1345
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

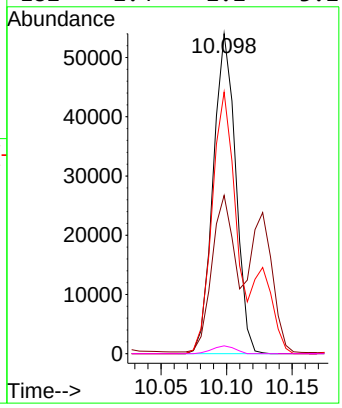




#57
2,4-Dinitrotoluene
Concen: 9.401 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:165 Resp: 6429

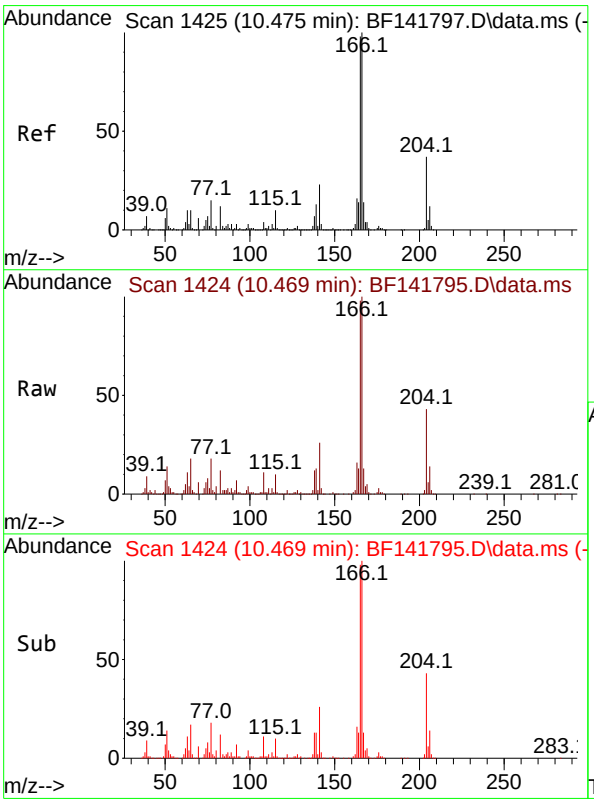
Ion	Ratio	Lower	Upper
165	100		
63	49.5	38.8	58.2
89	81.7	62.6	94.0
182	2.4	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

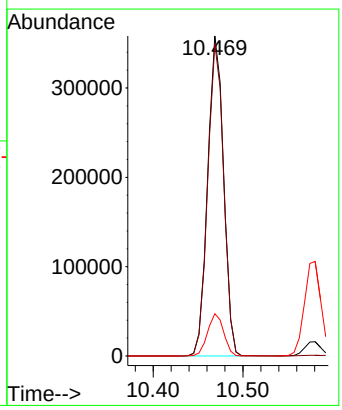
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

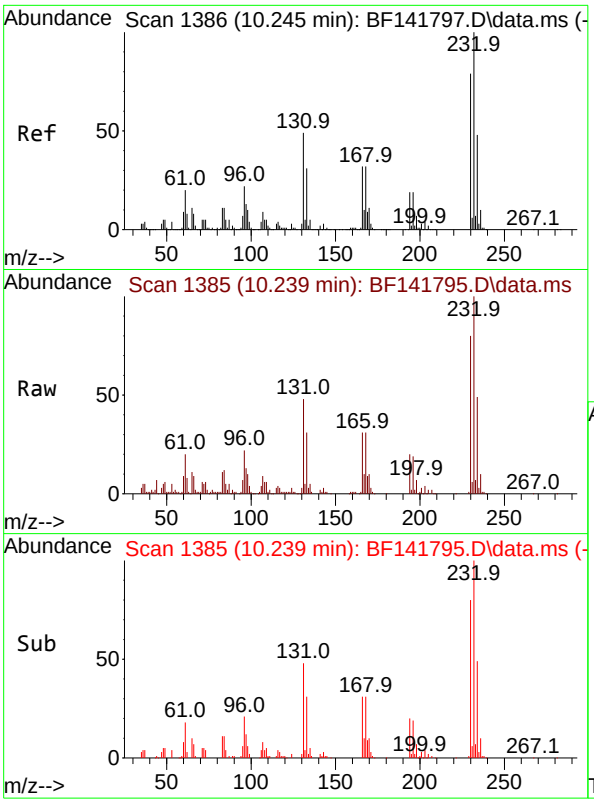


#58
Fluorene
Concen: 11.027 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

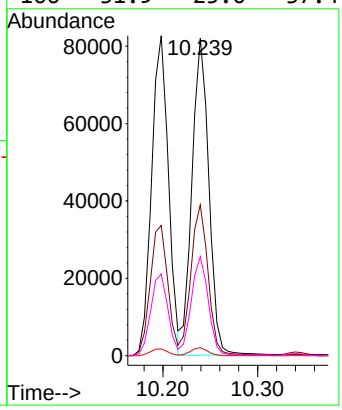




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.772 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:232 Resp: 10172

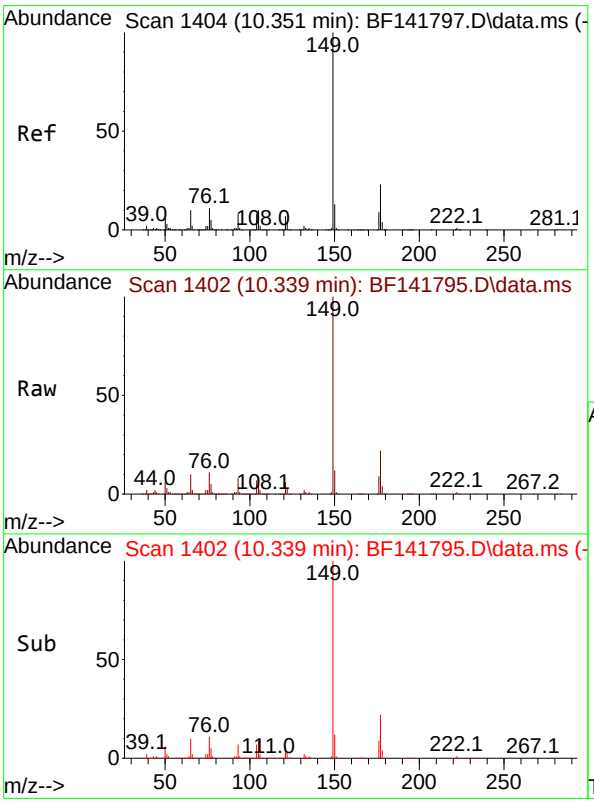
Ion	Ratio	Lower	Upper
232	100		
131	47.7	37.8	56.8
130	2.6	2.0	3.0
166	31.9	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

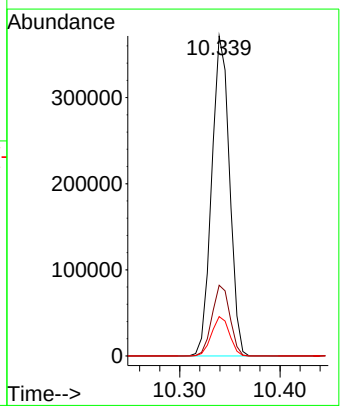
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

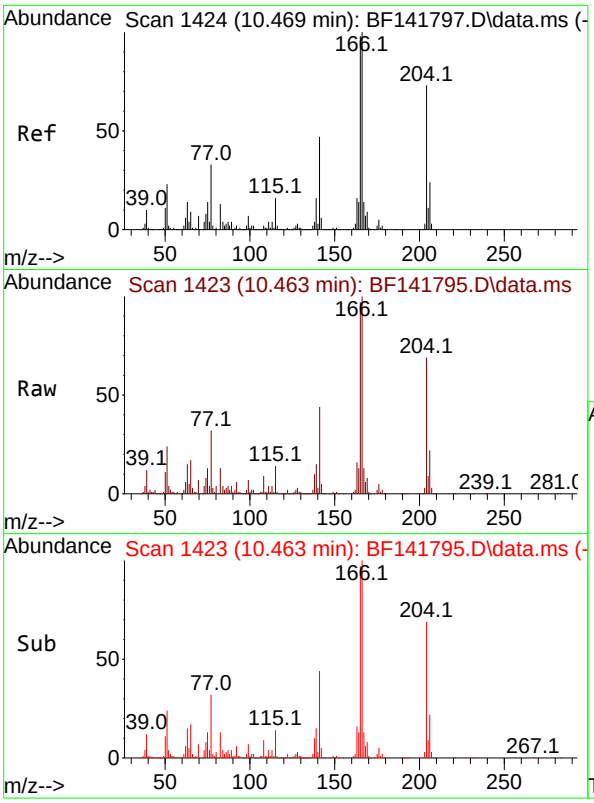


#60
Diethylphthalate
Concen: 10.520 ng
RT: 10.339 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

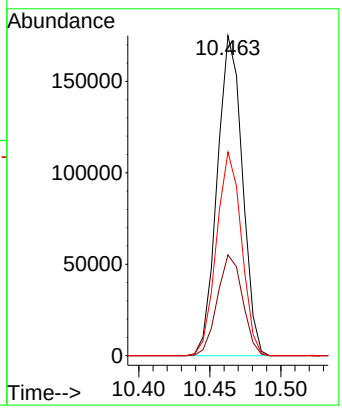




#61
4-Chlorophenyl-phenylether
Concen: 10.703 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:204 Resp: 21528

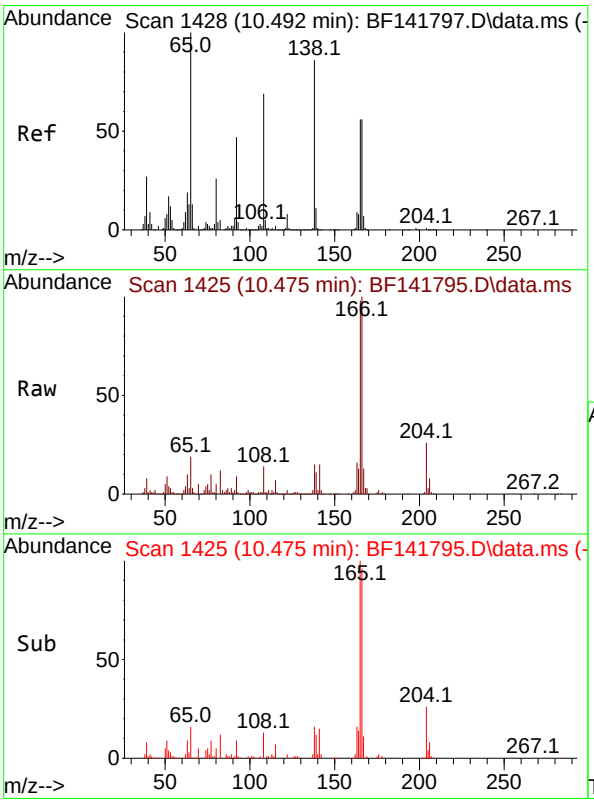
Ion	Ratio	Lower	Upper
204	100		
206	31.5	26.2	39.4
141	63.7	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

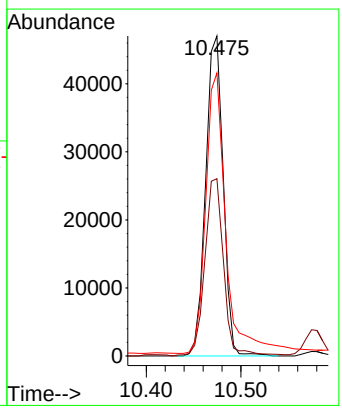
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

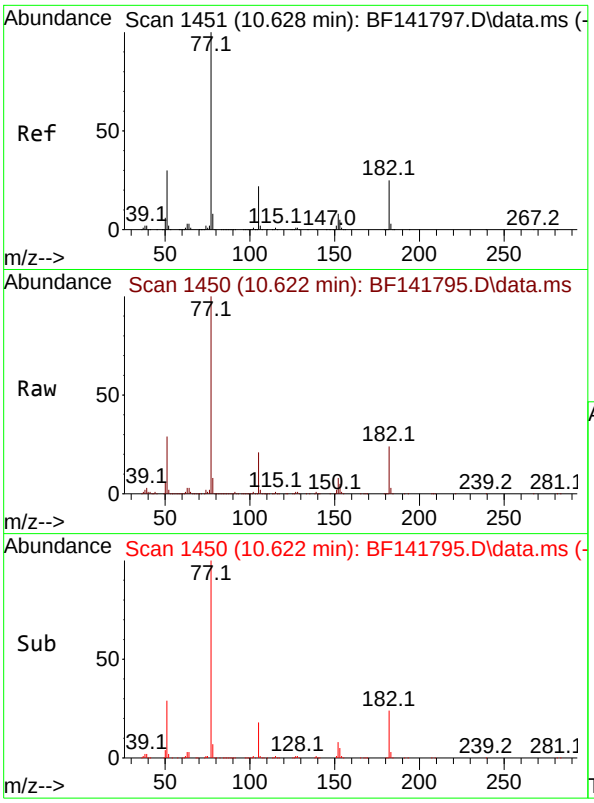


#62
4-Nitroaniline
Concen: 8.172 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

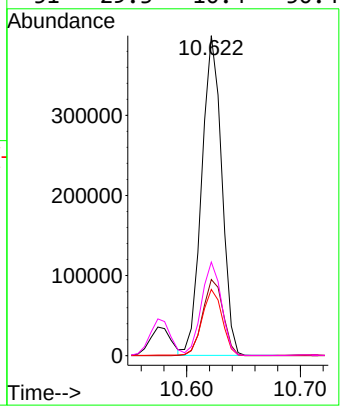




#63
Azobenzene
Concen: 10.631 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion: 77 Resp: 48687

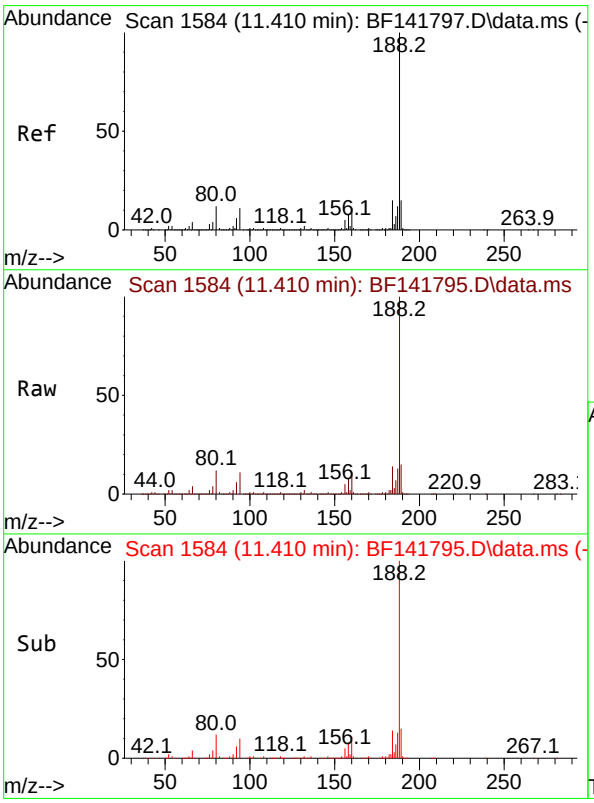
Ion	Ratio	Lower	Upper
77	100		
182	23.8	4.2	44.2
105	20.7	1.5	41.5
51	29.3	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

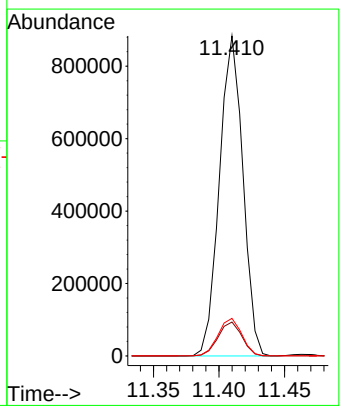
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

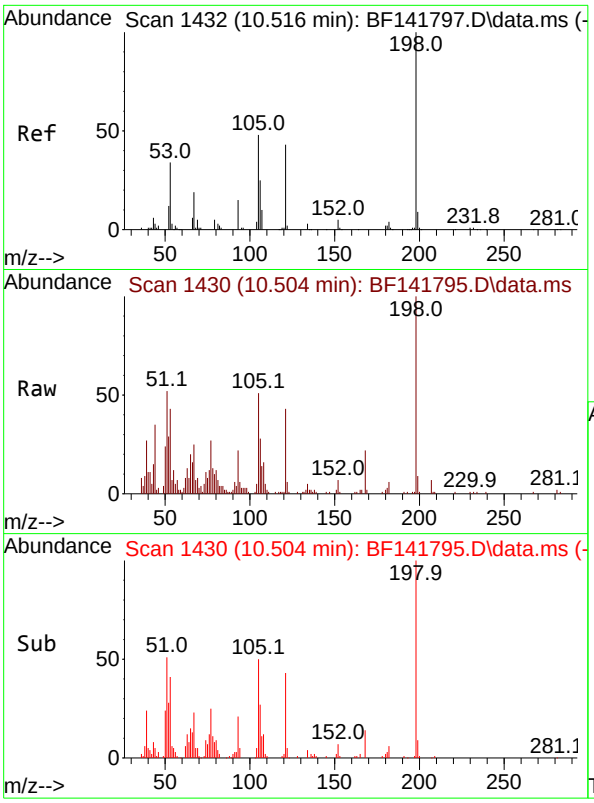


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

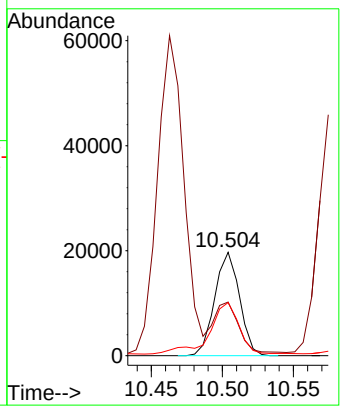




#65
4,6-Dinitro-2-methylphenol
Concen: 11.957 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:198 Resp: 2386

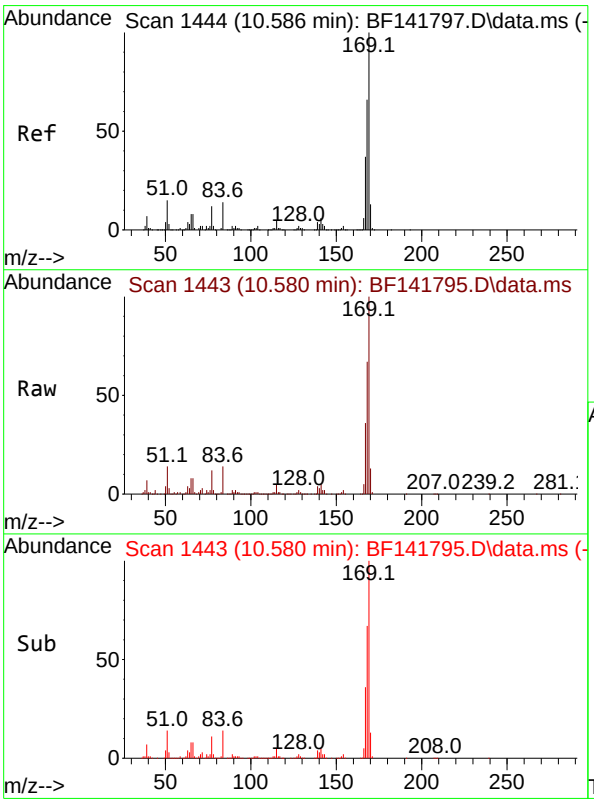
Ion	Ratio	Lower	Upper
198	100		
51	51.8	32.1	72.1
105	51.4	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

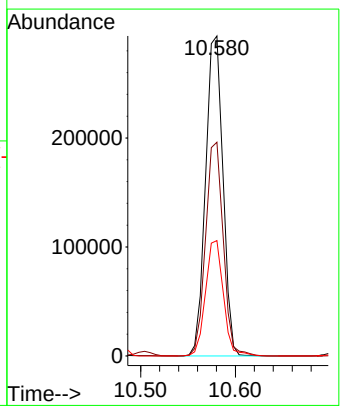
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

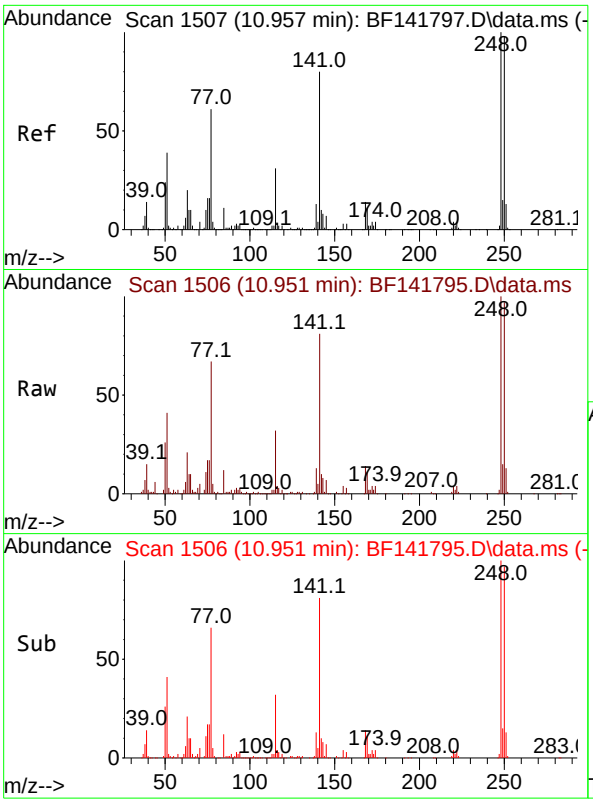


#66
n-Nitrosodiphenylamine
Concen: 10.369 ng
RT: 10.580 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

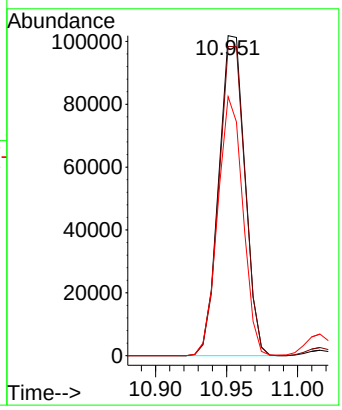




#67
4-Bromophenyl-phenylether
Concen: 10.165 ng
RT: 10.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:248 Resp: 13046

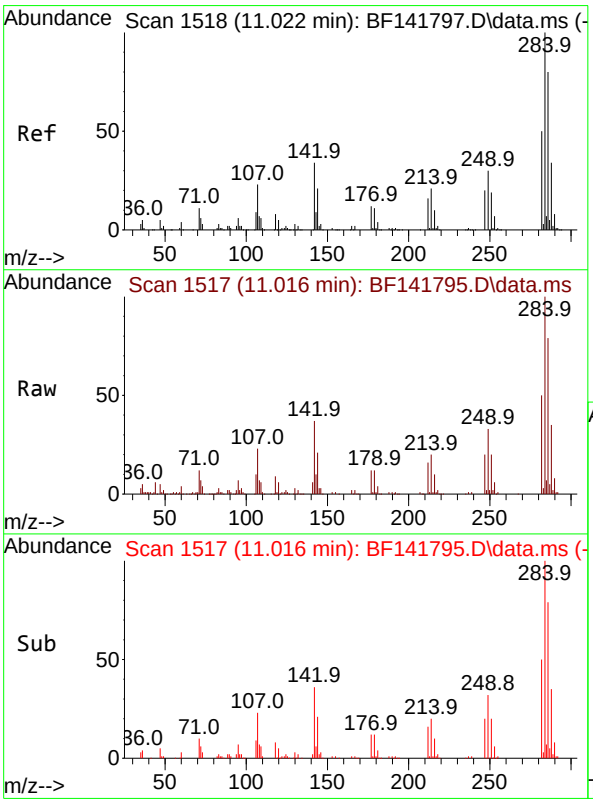
Ion	Ratio	Lower	Upper
248	100		
250	96.6	78.1	117.1
141	81.0	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

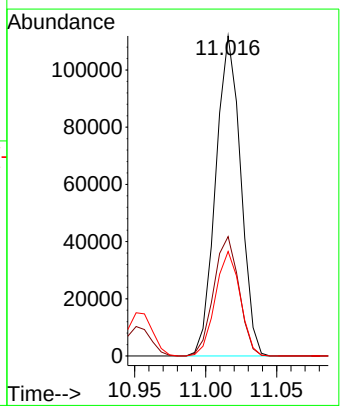
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

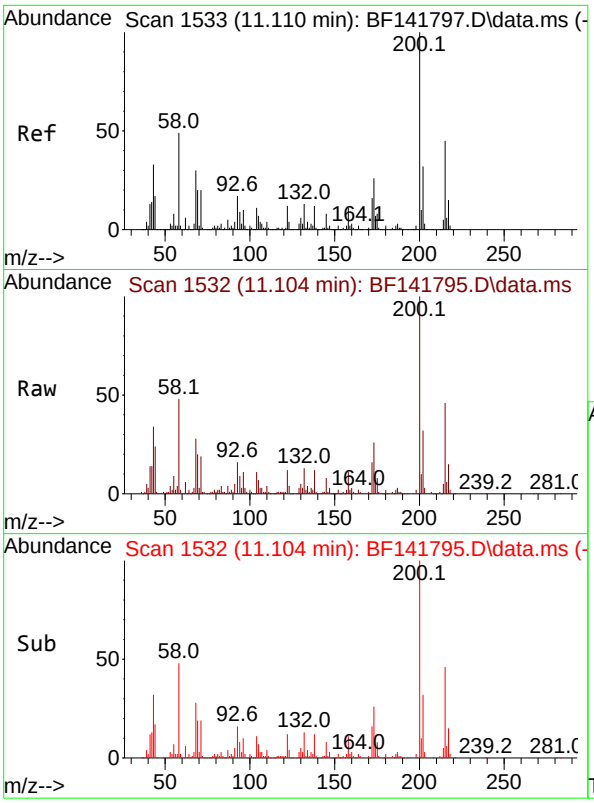


#68
Hexachlorobenzene
Concen: 10.081 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

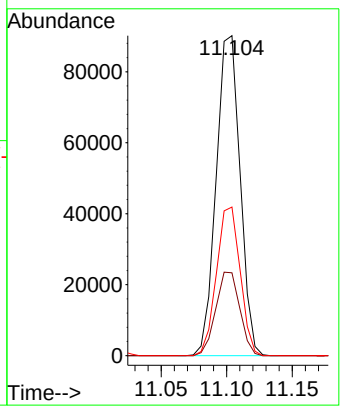




#69
Atrazine
Concen: 11.517 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:200 Resp: 11427

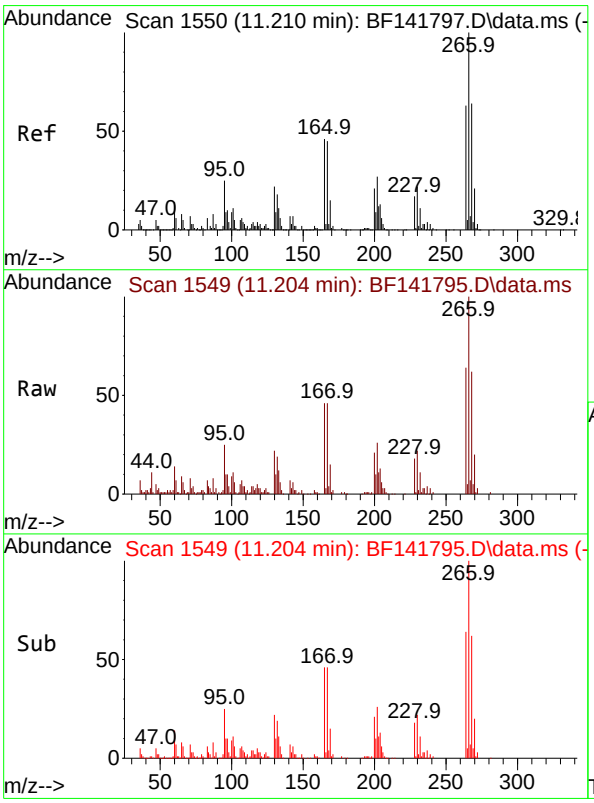
Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.6	45.6
215	46.5	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

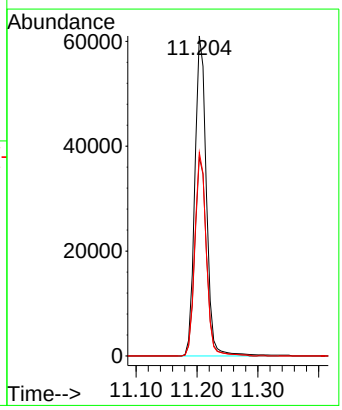
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

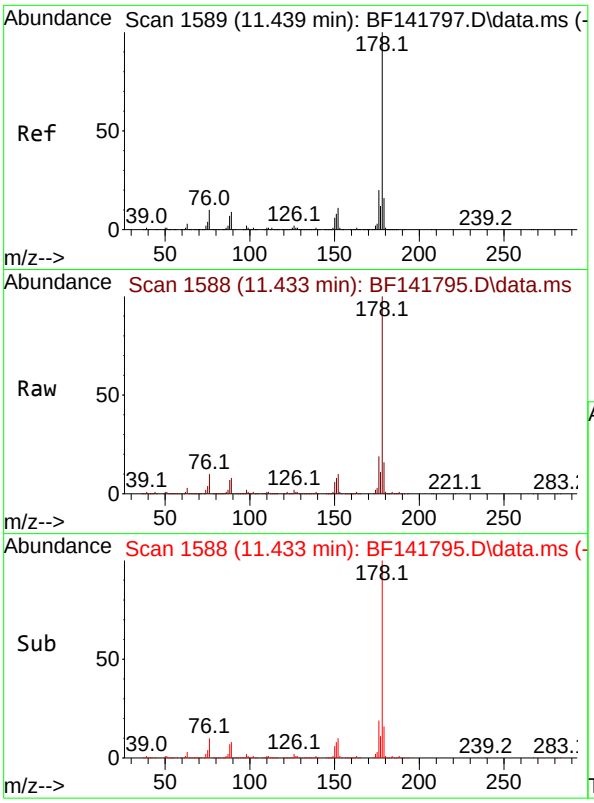


#70
Pentachlorophenol
Concen: 9.334 ng
RT: 11.204 min Scan# 1549
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

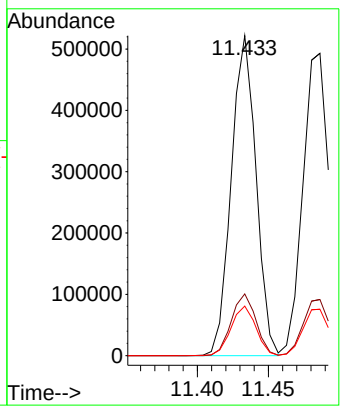




#71
Phenanthrene
Concen: 10.764 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:178 Resp: 63269

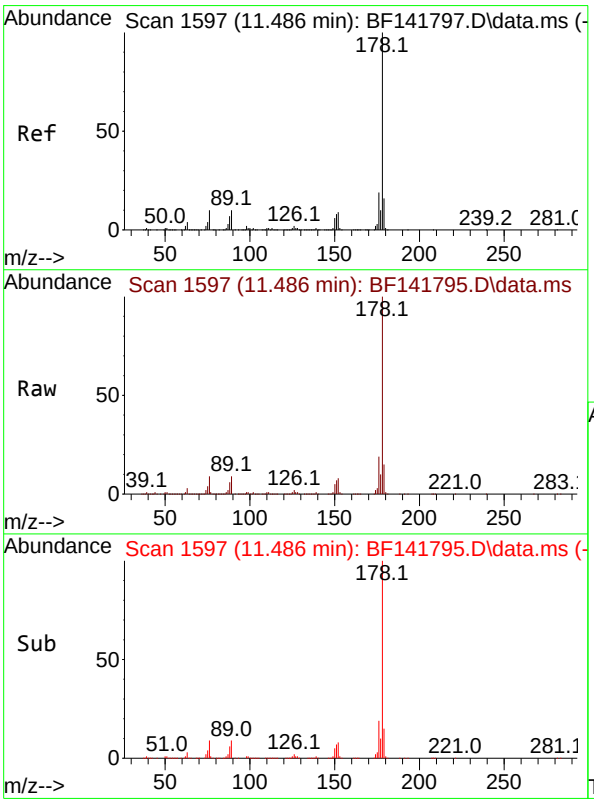
Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.0	24.0
179	15.5	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

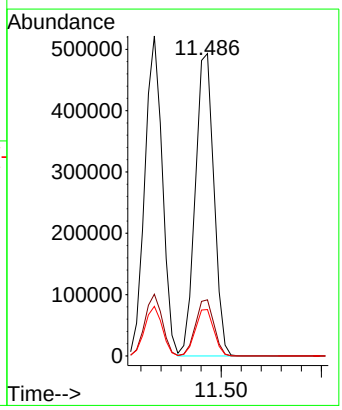
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

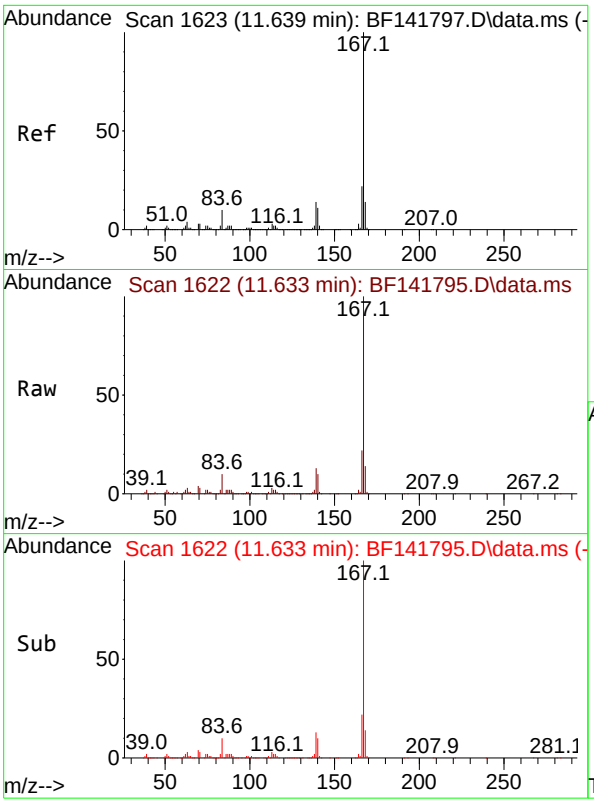


#72
Anthracene
Concen: 10.785 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

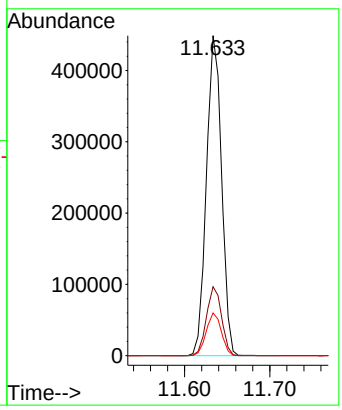




#73
Carbazole
Concen: 10.667 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:167 Resp: 55490

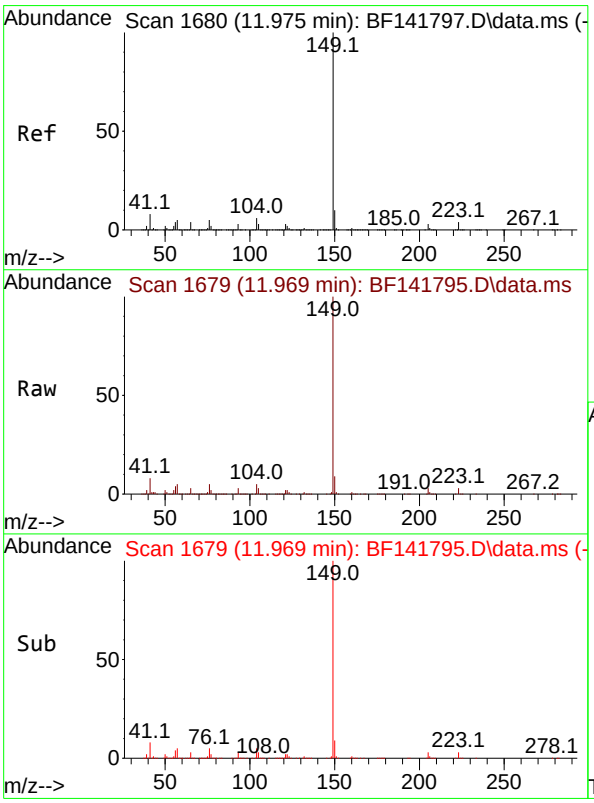
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.5	26.3
139	13.3	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

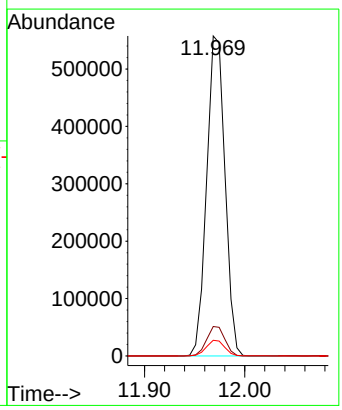
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

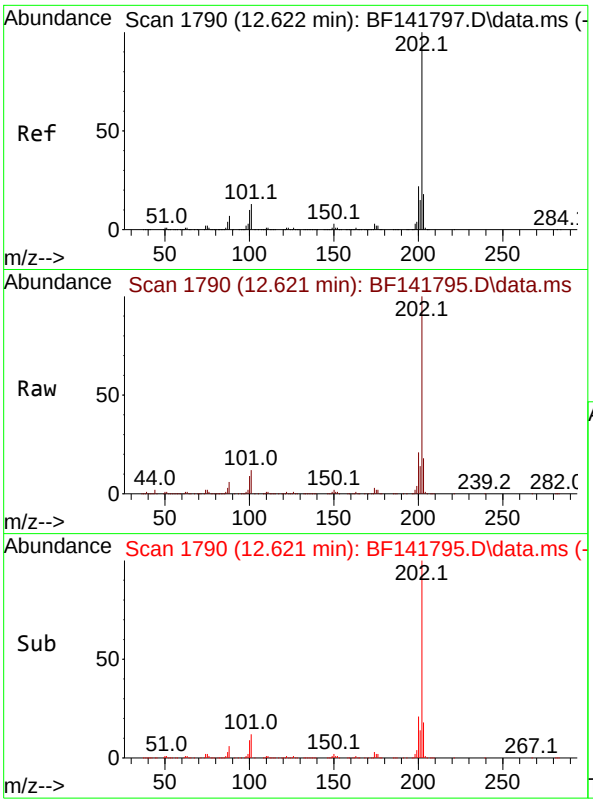


#74
Di-n-butylphthalate
Concen: 10.756 ng
RT: 11.969 min Scan# 1679
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

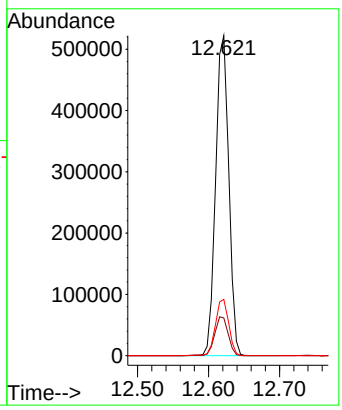




#75
Fluoranthene
Concen: 11.098 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:202 Resp: 66837

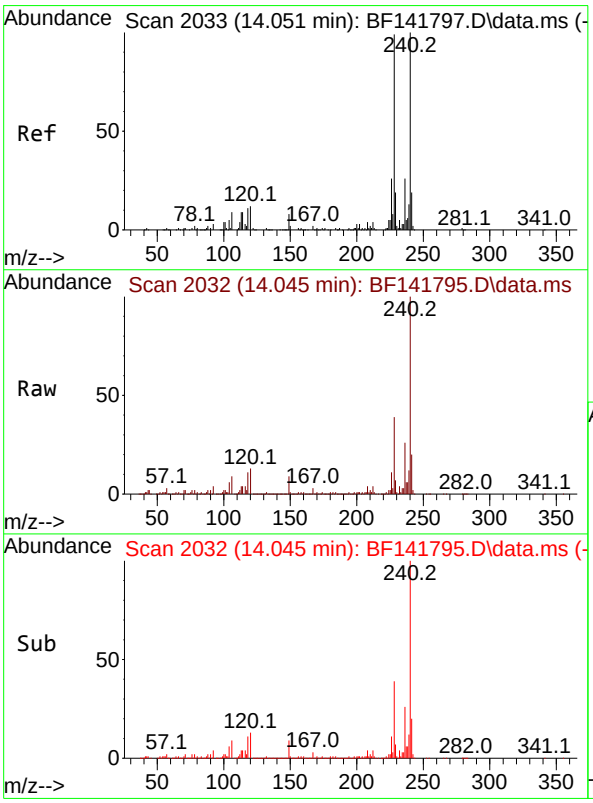
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.8
203	17.6	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

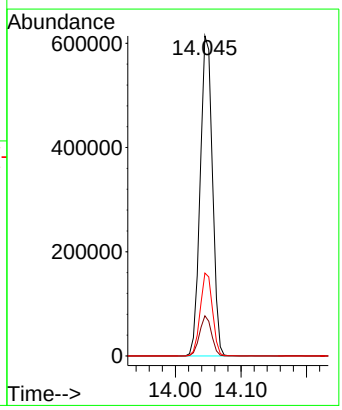
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

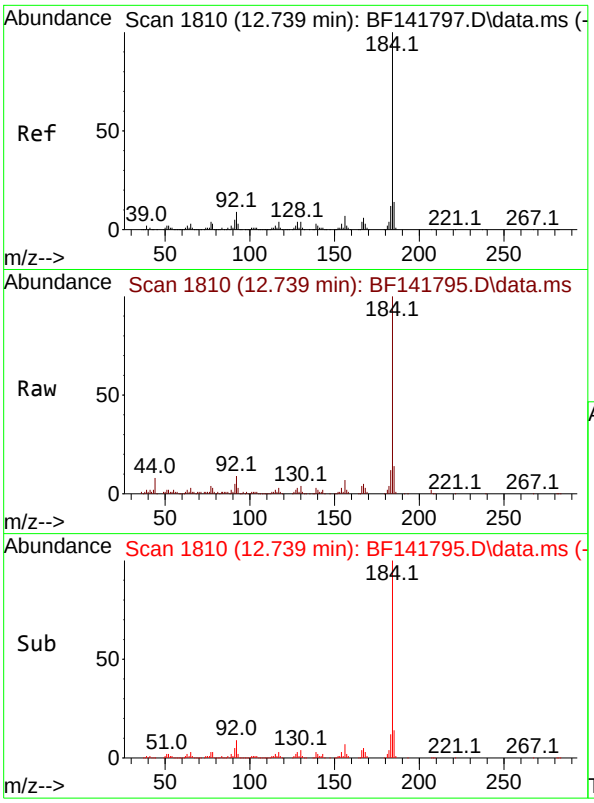


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

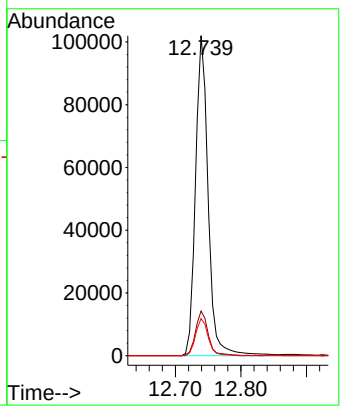




#77
Benzidine
Concen: 13.588 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:184 Resp: 13685

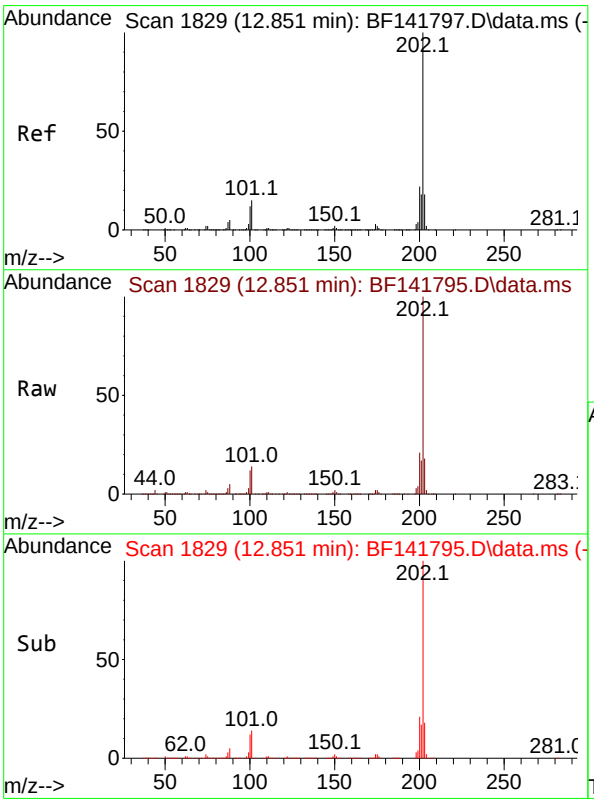
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.6	17.4
183	11.6	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

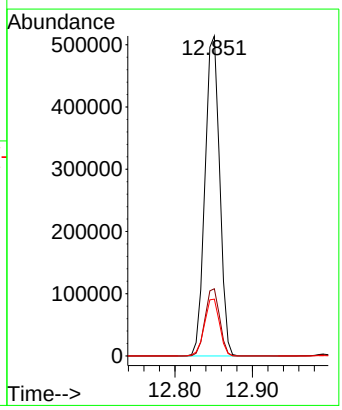
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

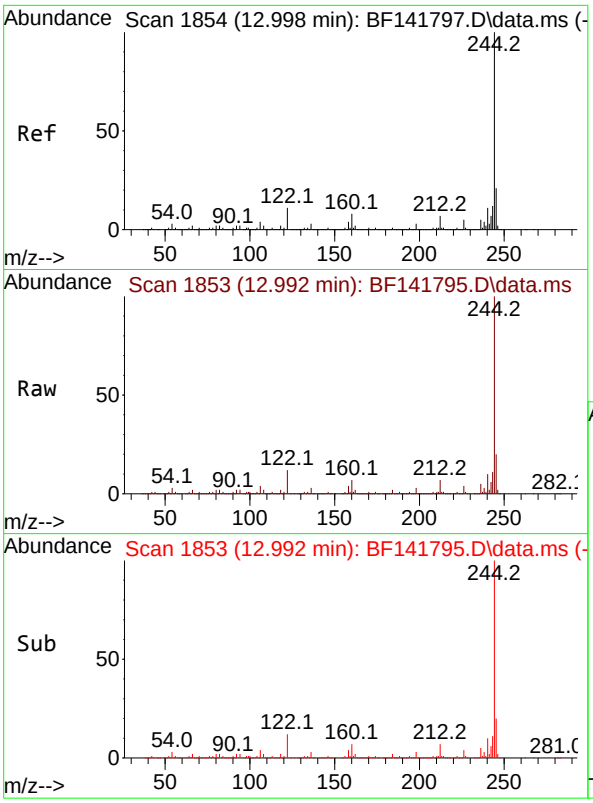


#78
Pyrene
Concen: 9.740 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

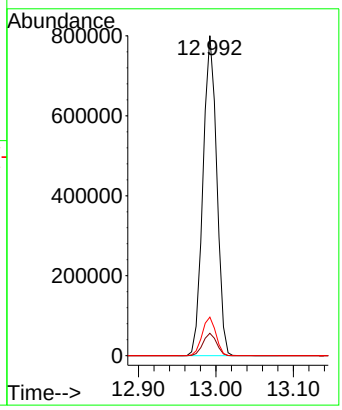




#79
Terphenyl-d14
Concen: 19.952 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:244 Resp: 98678

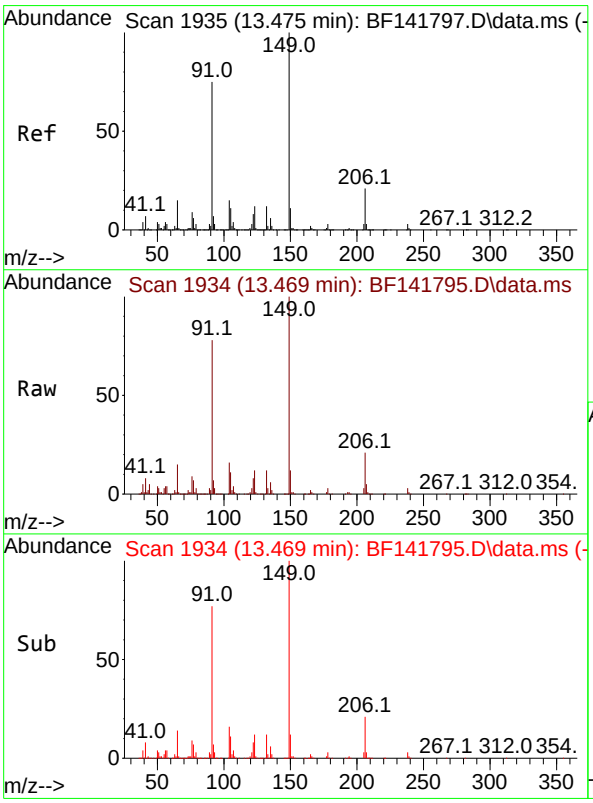
Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	12.1	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

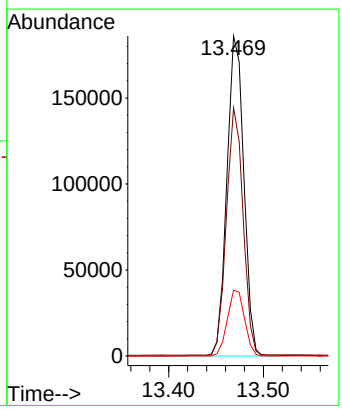
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

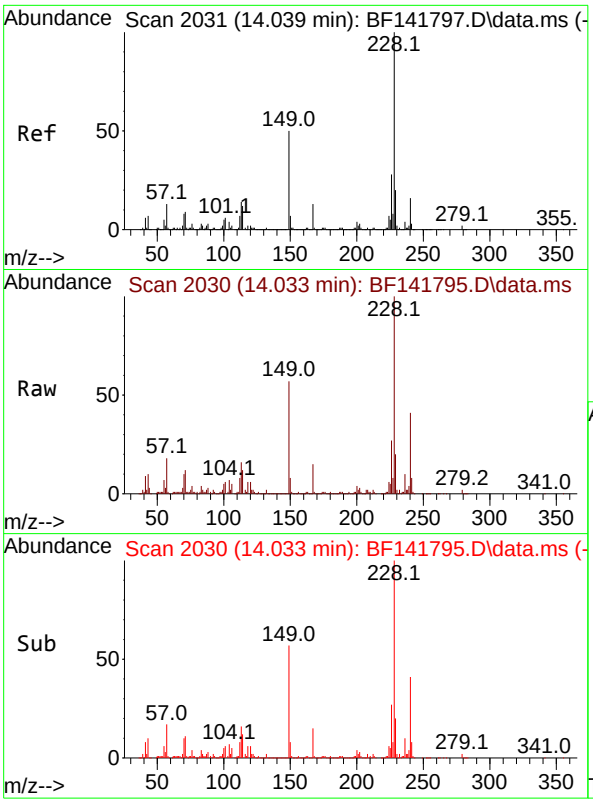


#80
Butylbenzylphthalate
Concen: 9.194 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

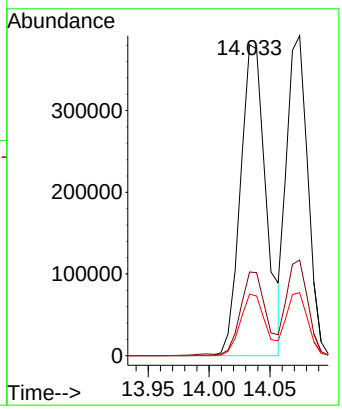




#81
Benzo(a)anthracene
Concen: 10.496 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:228 Resp: 55477

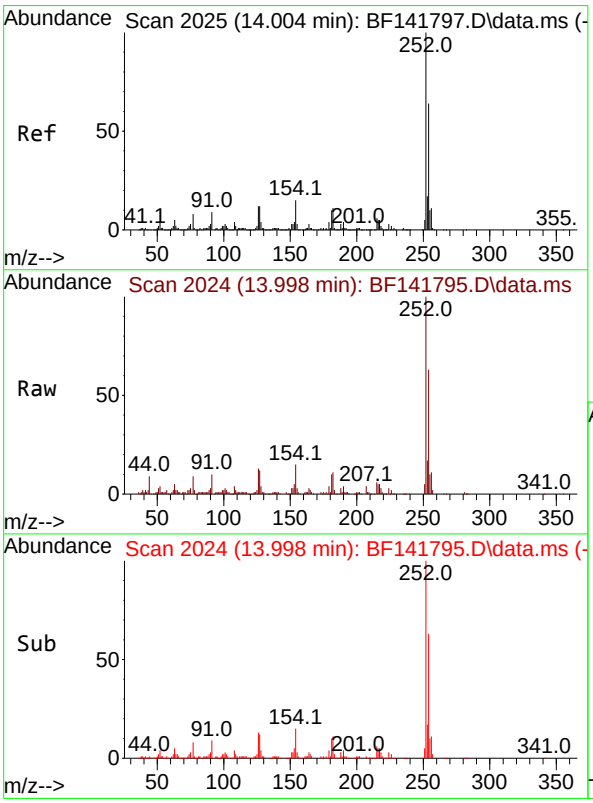
Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.1	33.1
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

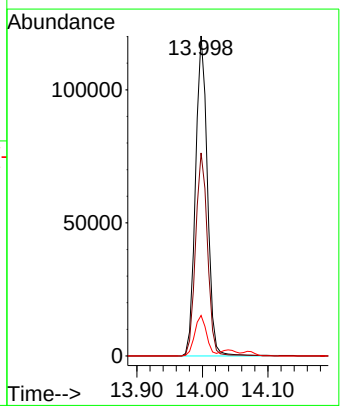
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

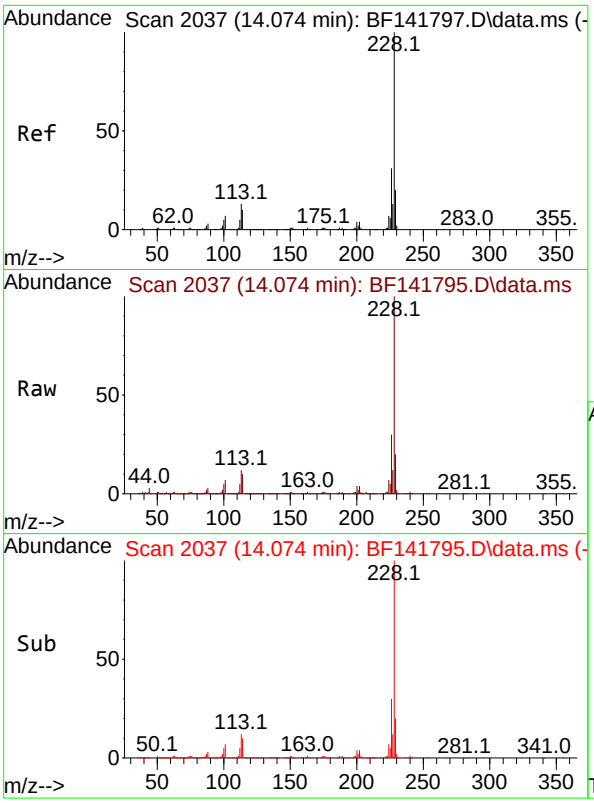


#82
3,3'-Dichlorobenzidine
Concen: 10.033 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

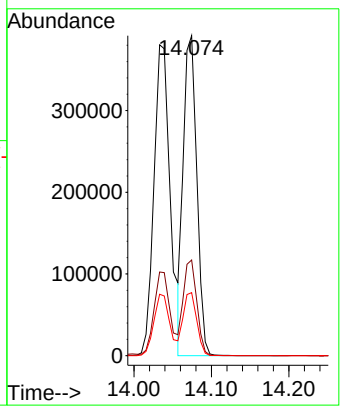




#83
Chrysene
Concen: 9.721 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:228 Resp: 47361

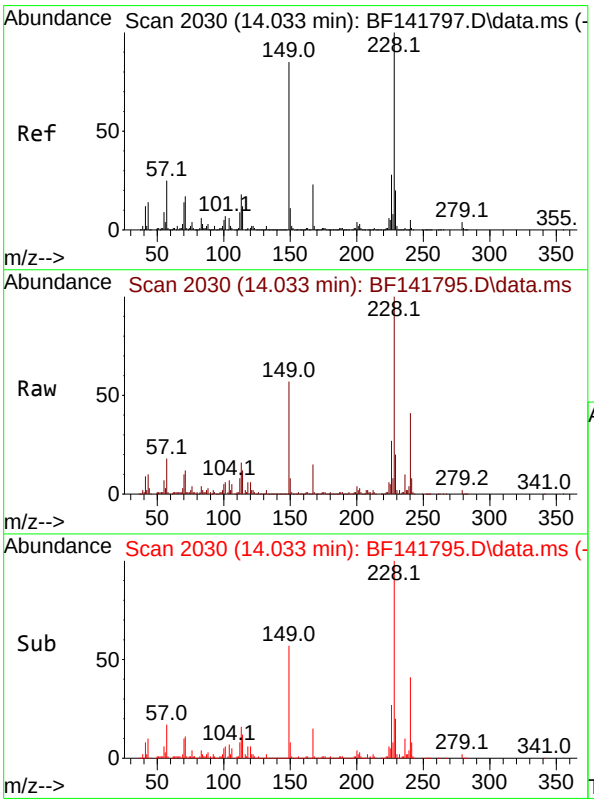
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	19.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

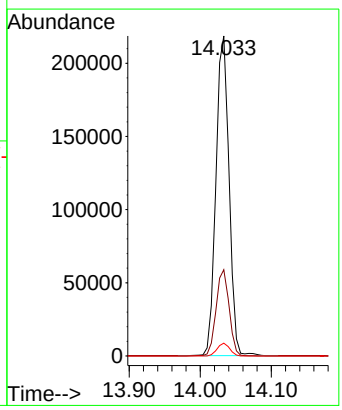
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

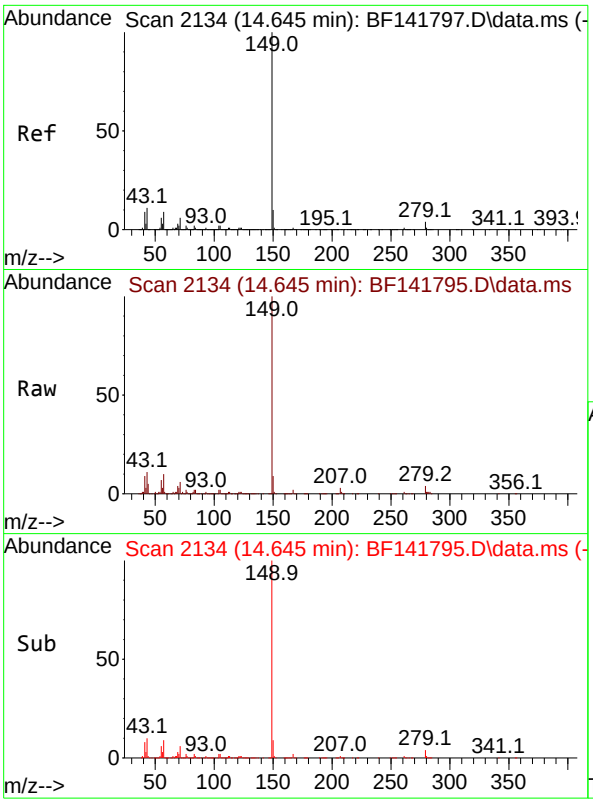


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.884 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

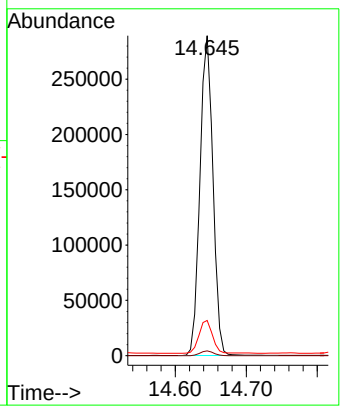
Tgt Ion:149 Resp: 36871

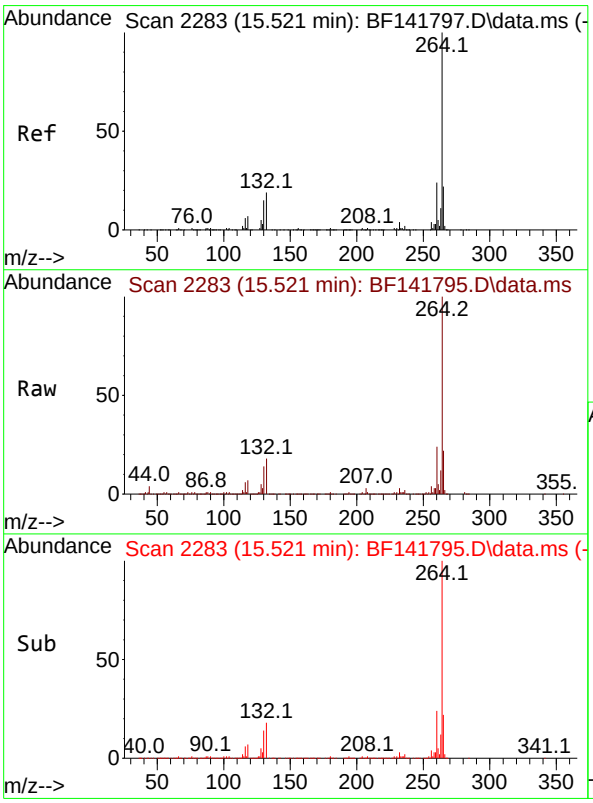
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.8	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

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

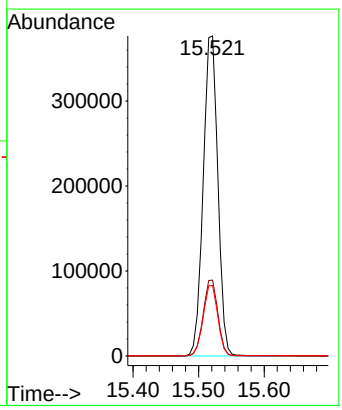


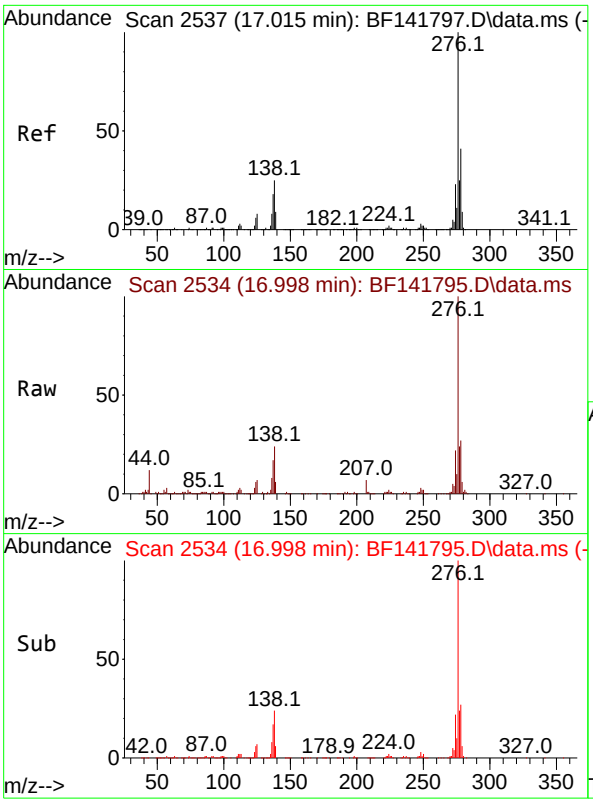


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

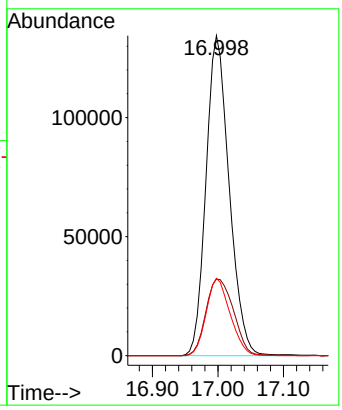




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.838 ng
RT: 16.998 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:276 Resp: 33001

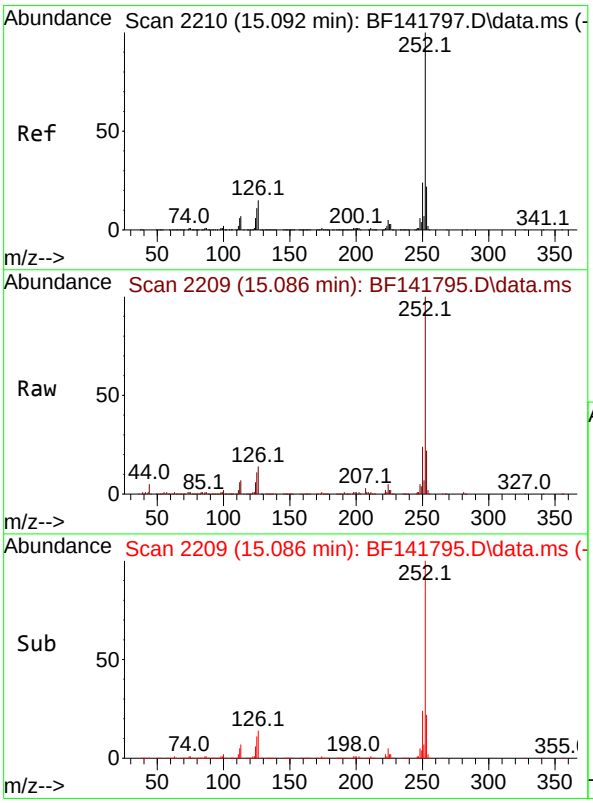
Ion	Ratio	Lower	Upper
276	100		
138	28.6	22.5	33.7
277	25.0	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

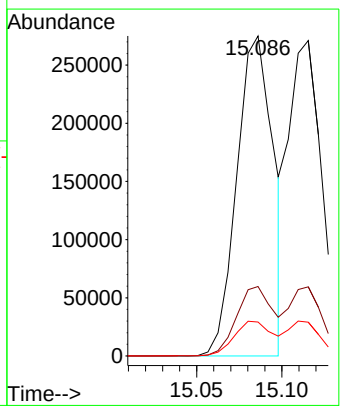
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

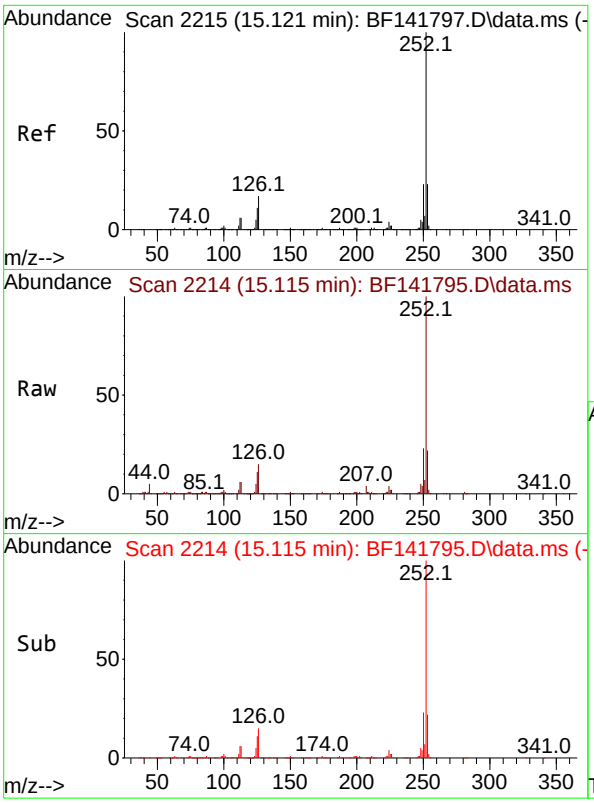


#88
Benzo(b)fluoranthene
Concen: 10.250 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

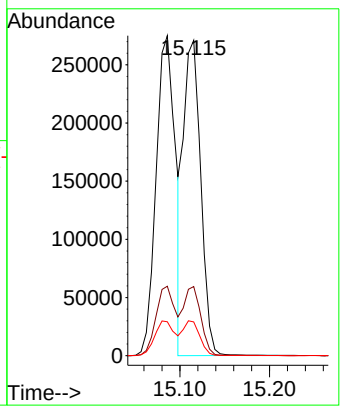




#89
Benzo(k)fluoranthene
Concen: 10.707 ng
RT: 15.115 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:252 Resp: 36351

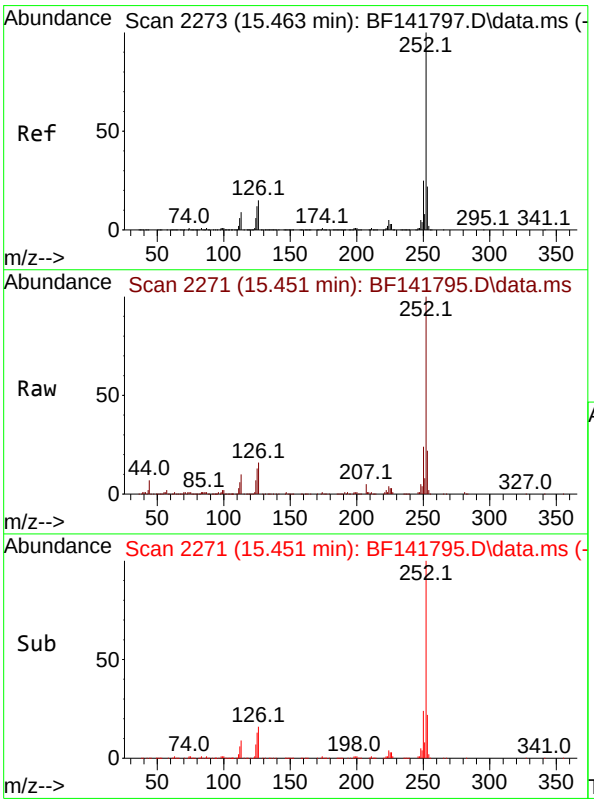
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	10.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

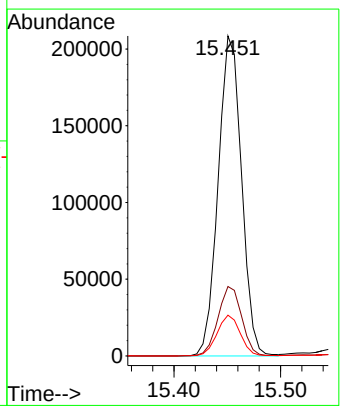
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

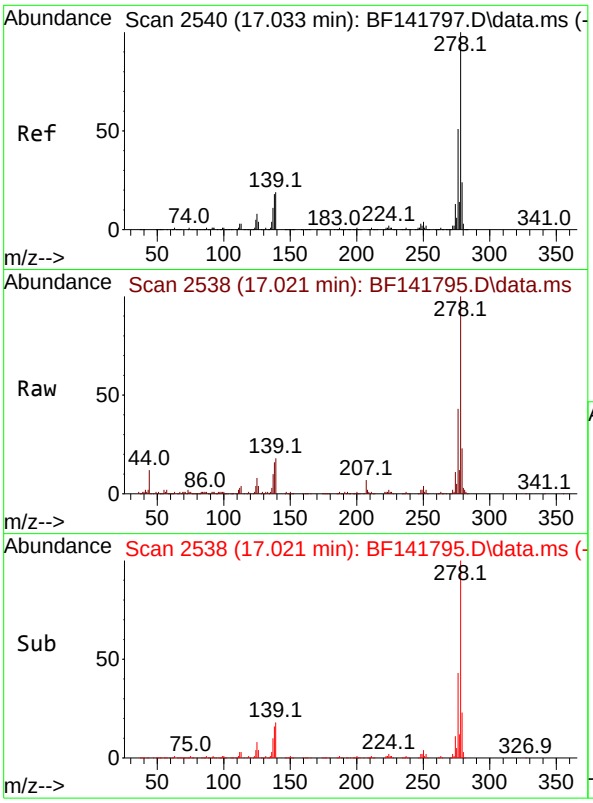


#90
Benzo(a)pyrene
Concen: 9.913 ng
RT: 15.451 min Scan# 2271
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

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

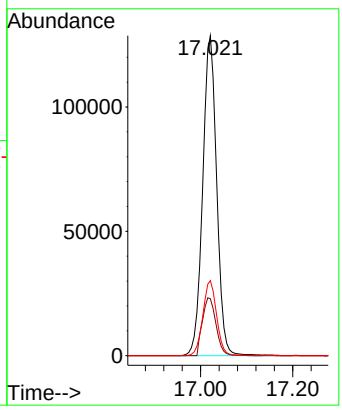




#91
Dibenzo(a,h)anthracene
Concen: 8.954 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141795.D
Acq: 27 Feb 2025 16:16

Tgt Ion:278 Resp: 27291

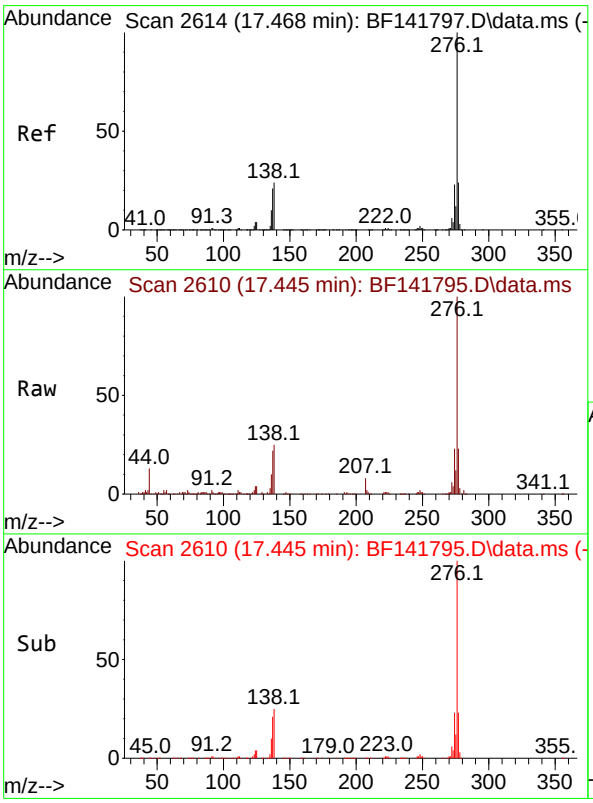
Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.9	22.3
279	23.4	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

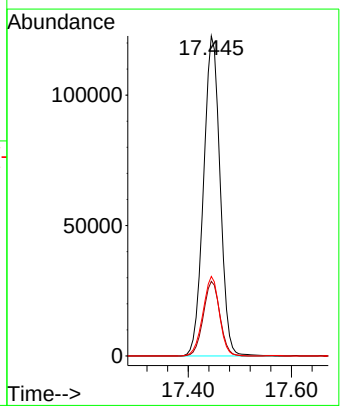
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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



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

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

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

	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

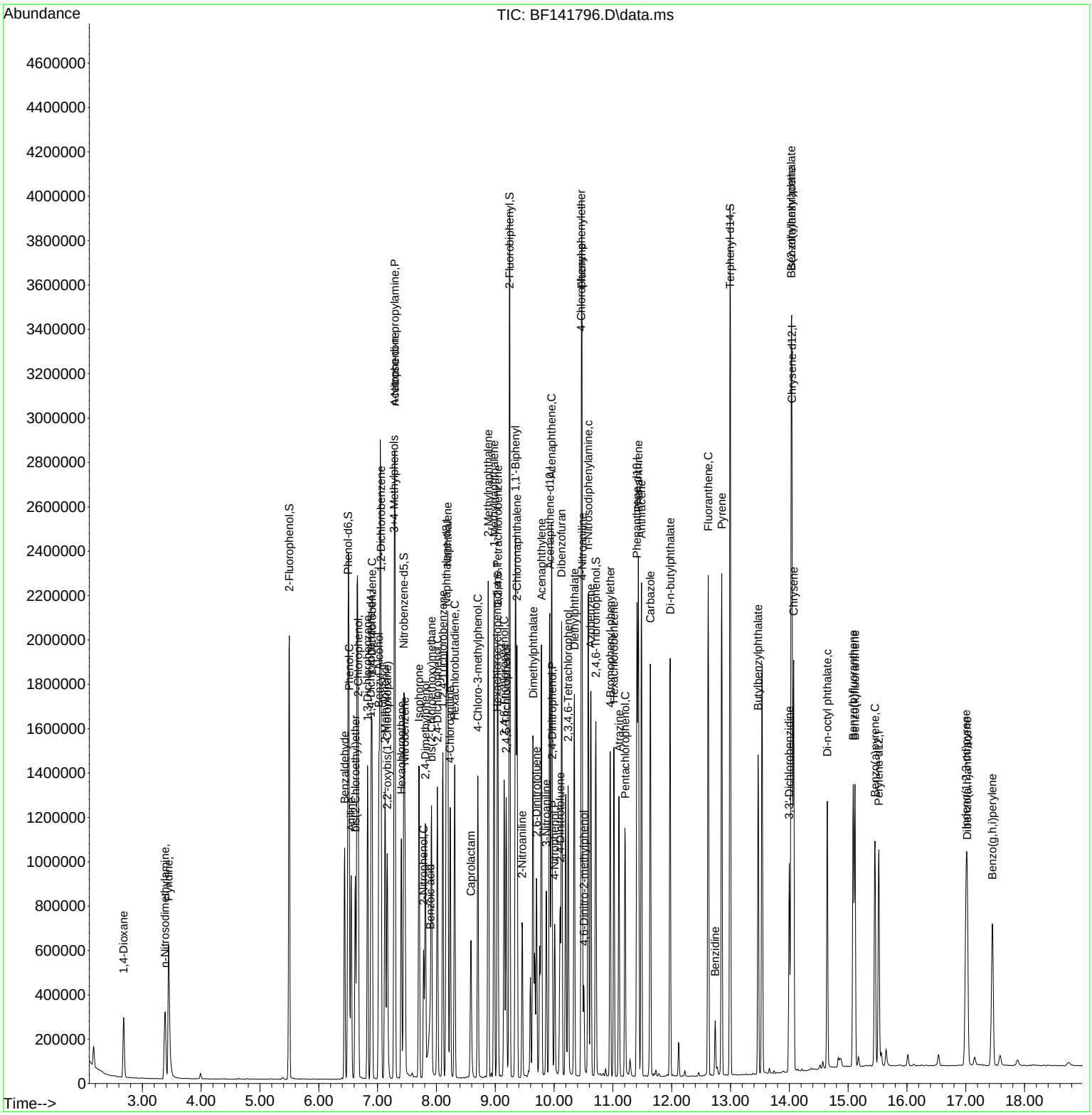
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141796.D
Acq On : 27 Feb 2025 16:46
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

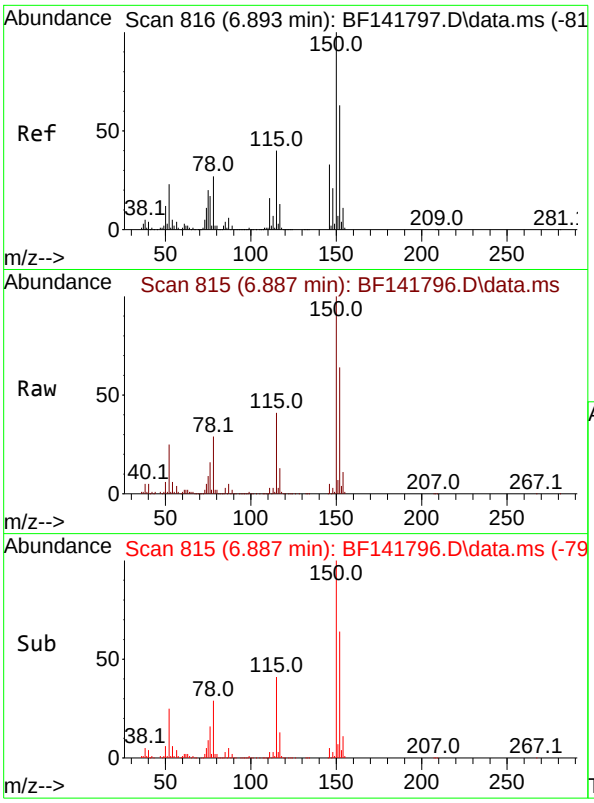
Quant Time: Feb 28 01:24:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

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

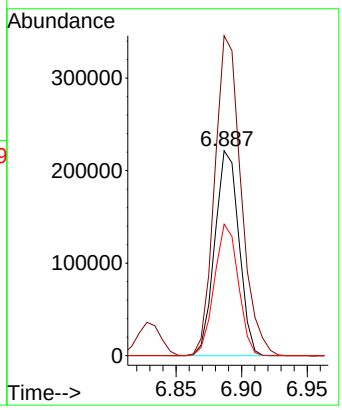




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 28258

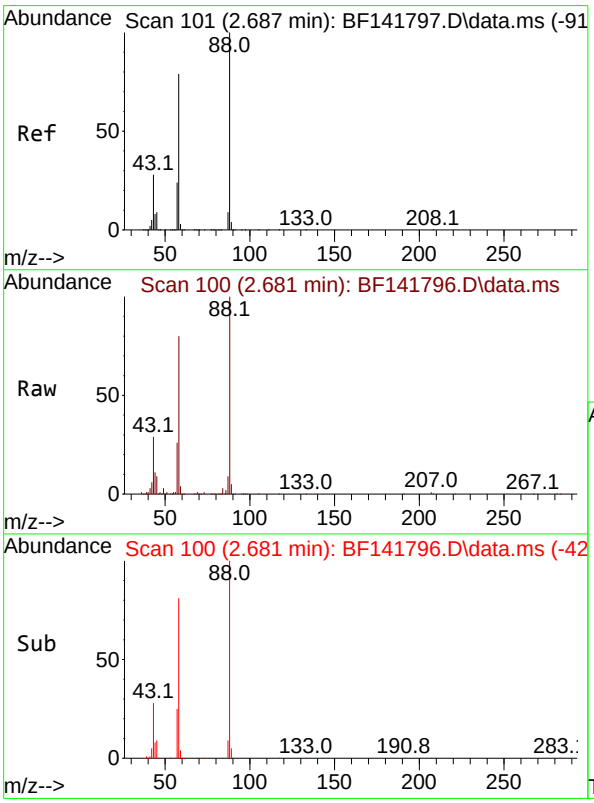
Ion	Ratio	Lower	Upper
152	100		
150	156.1	127.5	191.3
115	64.2	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

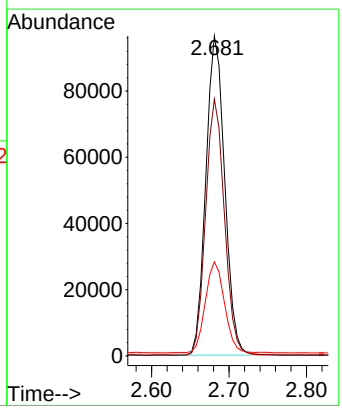
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

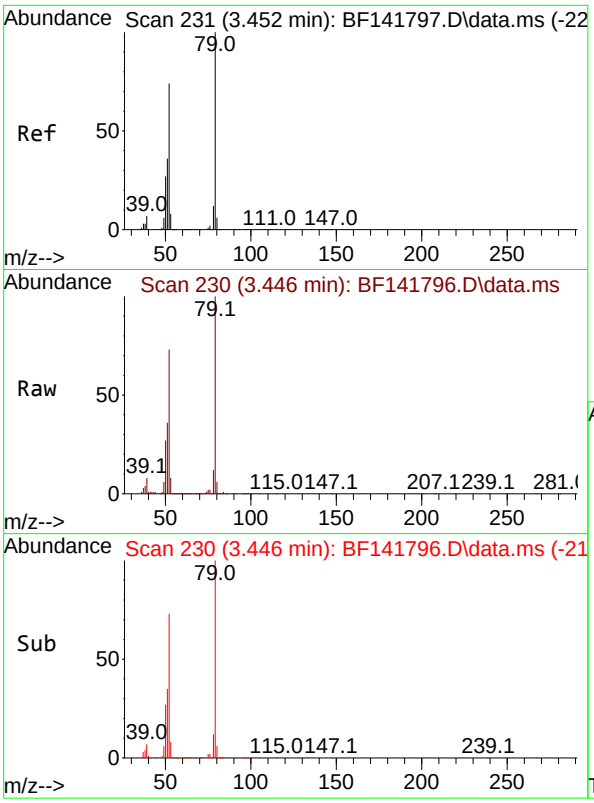


#2
1,4-Dioxane
Concen: 20.255 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

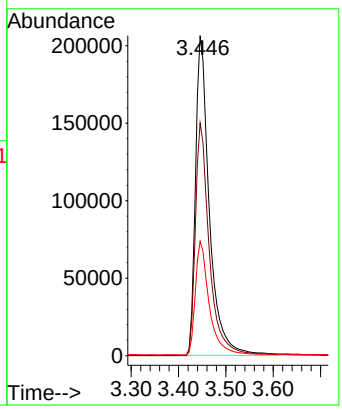




#3
Pyridine
Concen: 21.024 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 41999

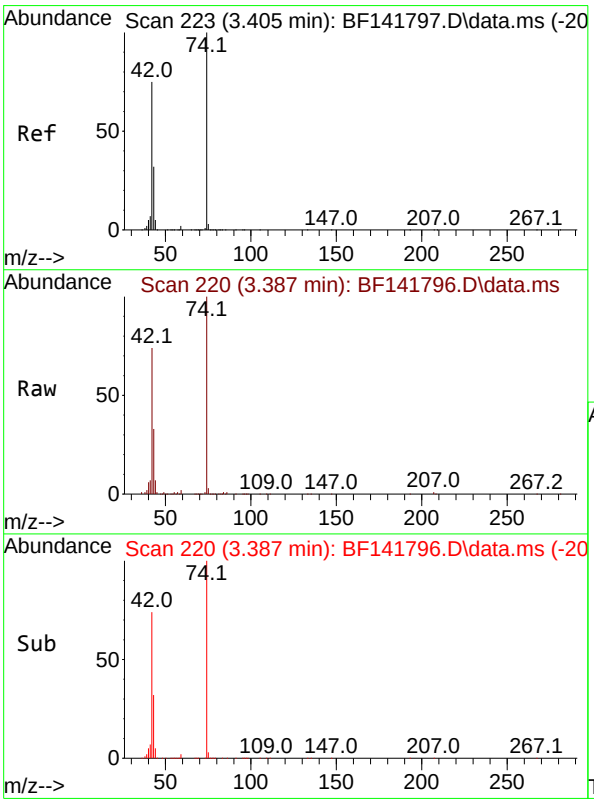
Ion	Ratio	Lower	Upper
79	100		
52	72.7	59.0	88.4
51	35.7	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

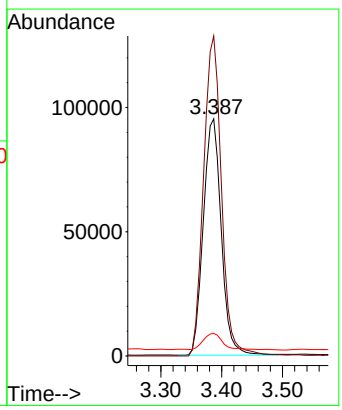
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

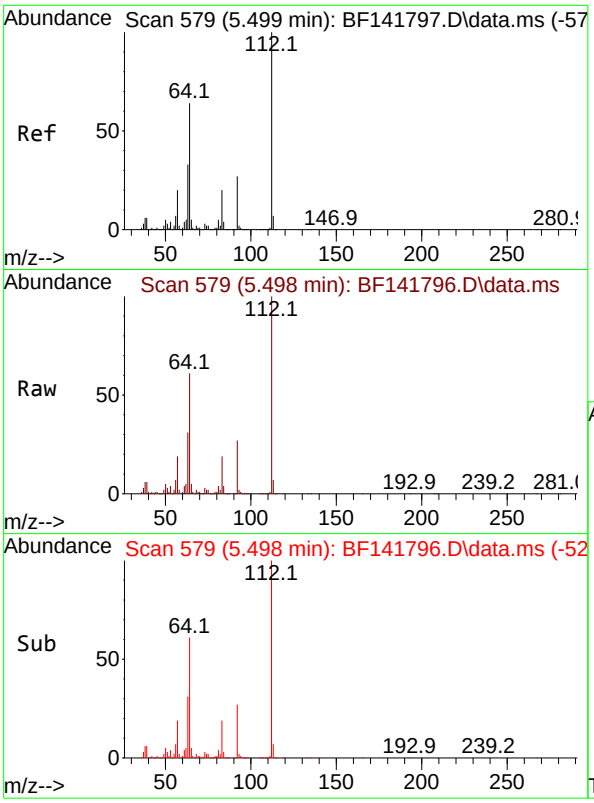


#4
n-Nitrosodimethylamine
Concen: 20.270 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.018 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

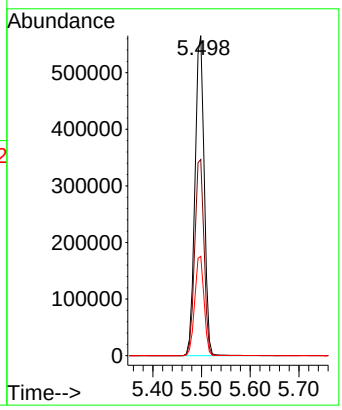




#5
2-Fluorophenol
Concen: 42.367 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:112 Resp: 74967

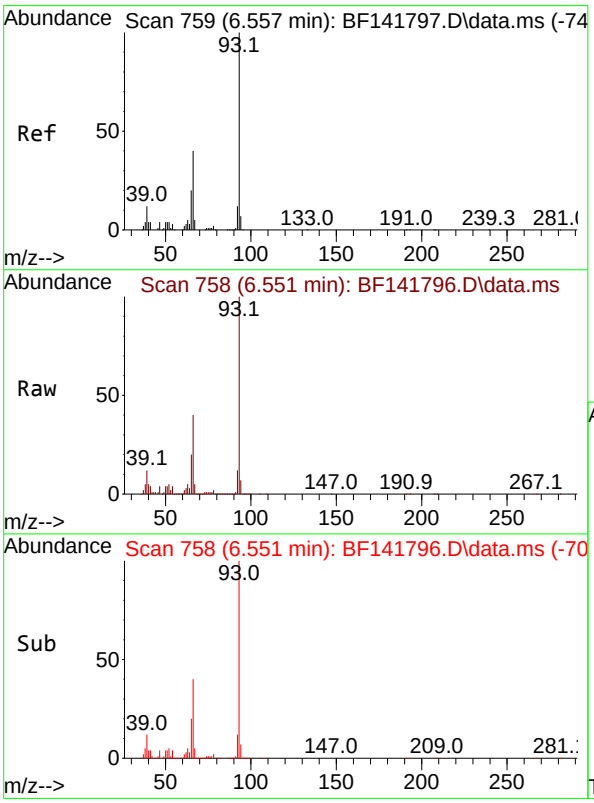
Ion	Ratio	Lower	Upper
112	100		
64	61.3	51.3	76.9
63	31.1	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

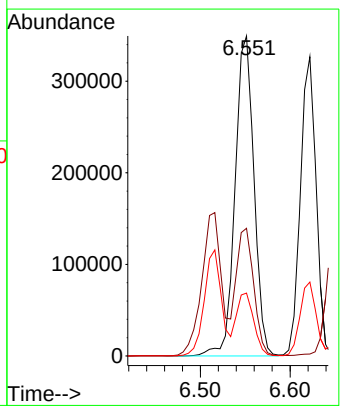
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

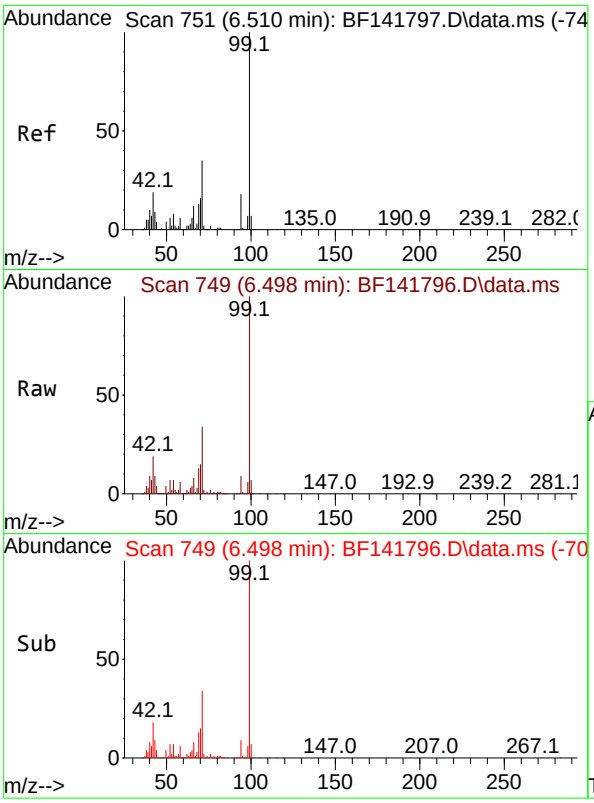


#6
Aniline
Concen: 21.416 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

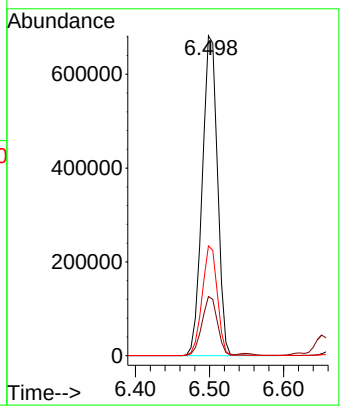




#7
Phenol-d6
Concen: 42.408 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 99 Resp: 97671

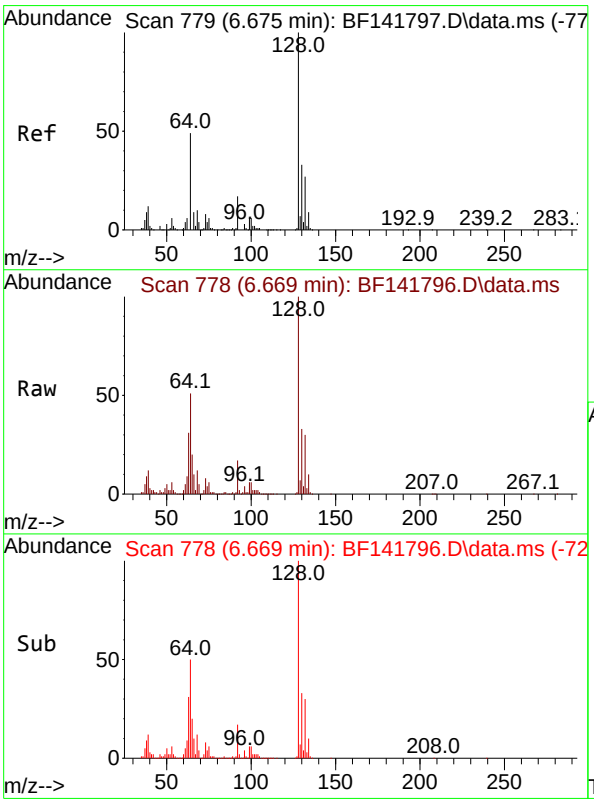
Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.2	22.8
71	34.3	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

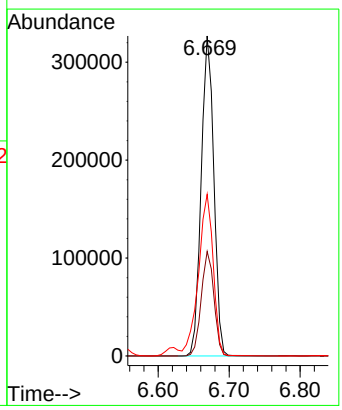
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

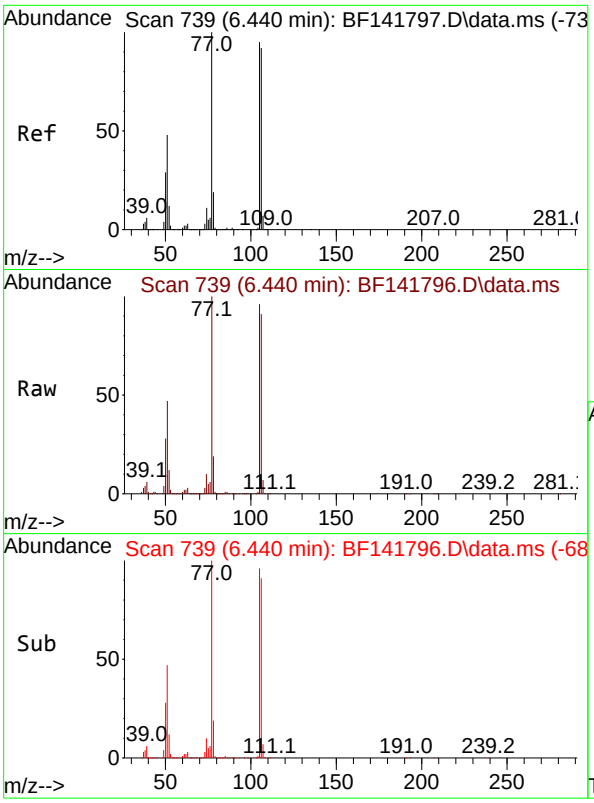


#8
2-Chlorophenol
Concen: 21.241 ng
RT: 6.669 min Scan# 778
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

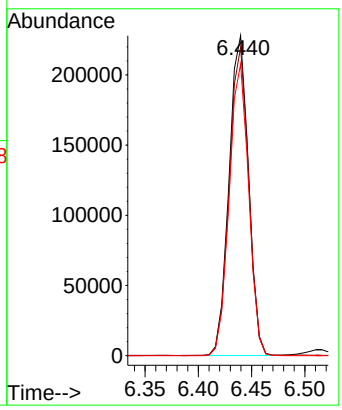




#9
Benzaldehyde
Concen: 21.590 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 28924

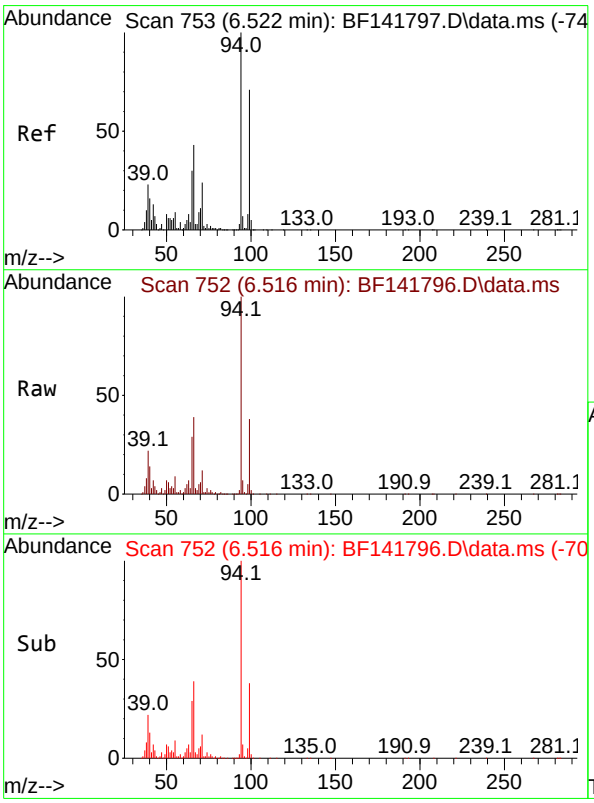
Ion	Ratio	Lower	Upper
77	100		
105	96.4	75.3	115.3
106	91.1	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

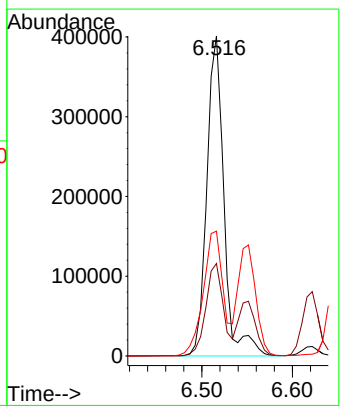
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

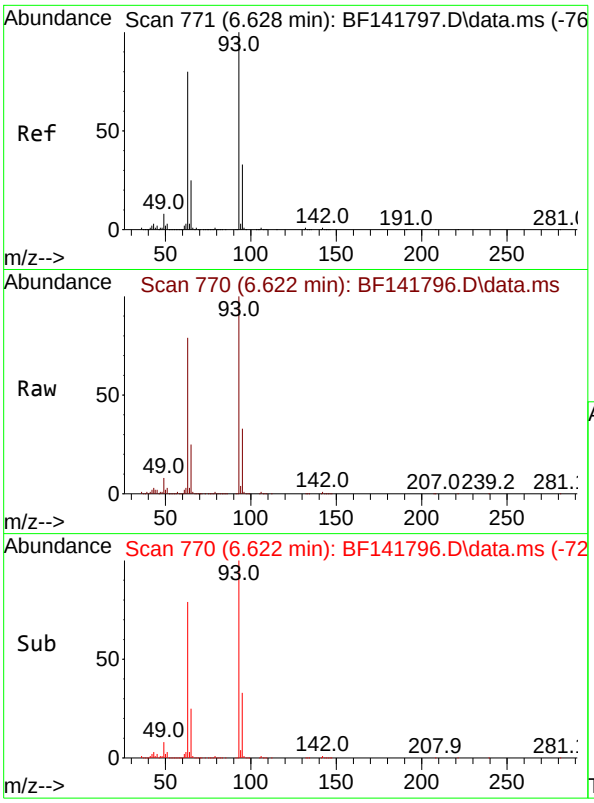


#10
Phenol
Concen: 21.493 ng m
RT: 6.516 min Scan# 752
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

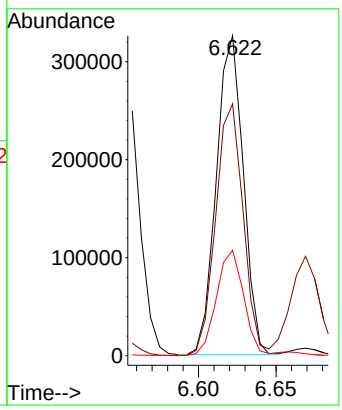




#11
bis(2-Chloroethyl)ether
Concen: 20.964 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 93 Resp: 39329

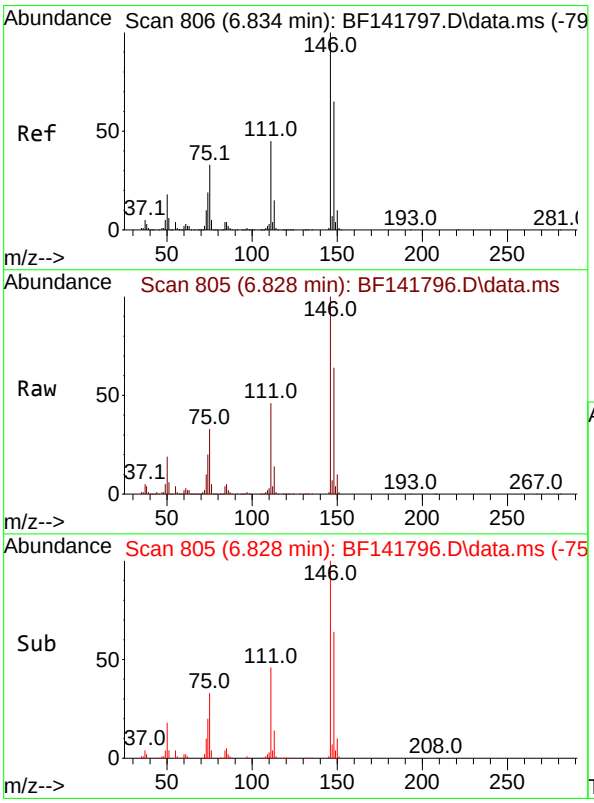
Ion	Ratio	Lower	Upper
93	100		
63	78.7	59.3	99.3
95	32.9	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

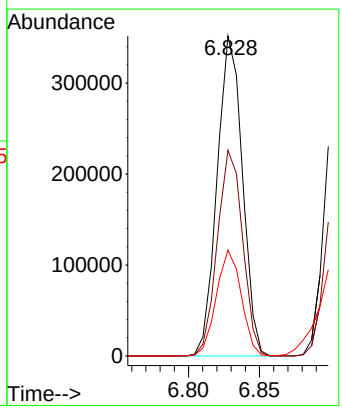
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

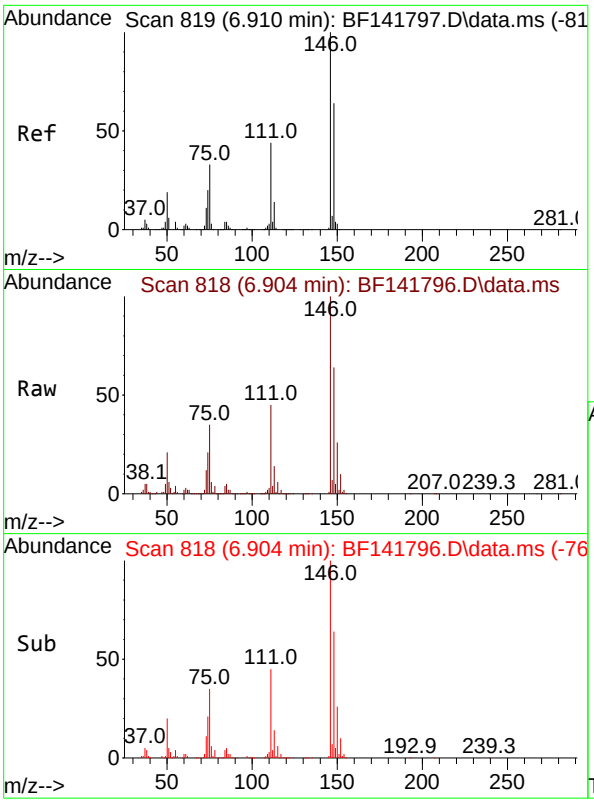


#12
1,3-Dichlorobenzene
Concen: 21.247 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

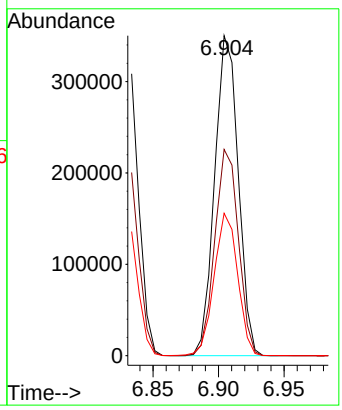




#13
1,4-Dichlorobenzene
Concen: 21.195 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:146 Resp: 43777

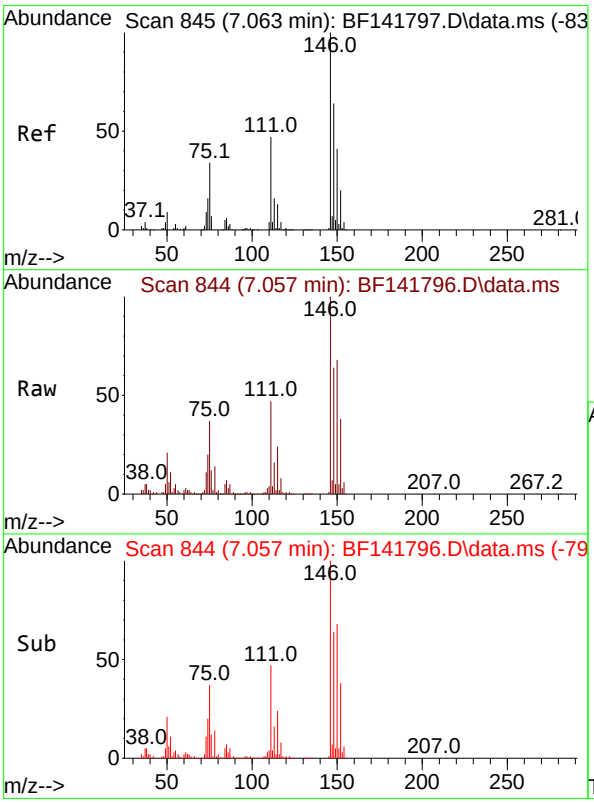
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.4	77.2
111	44.5	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

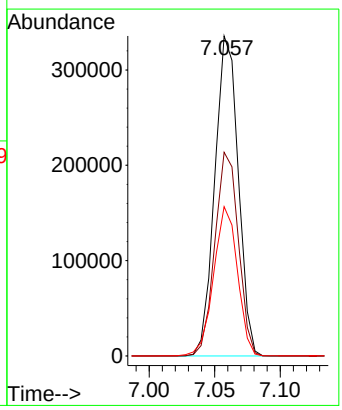
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

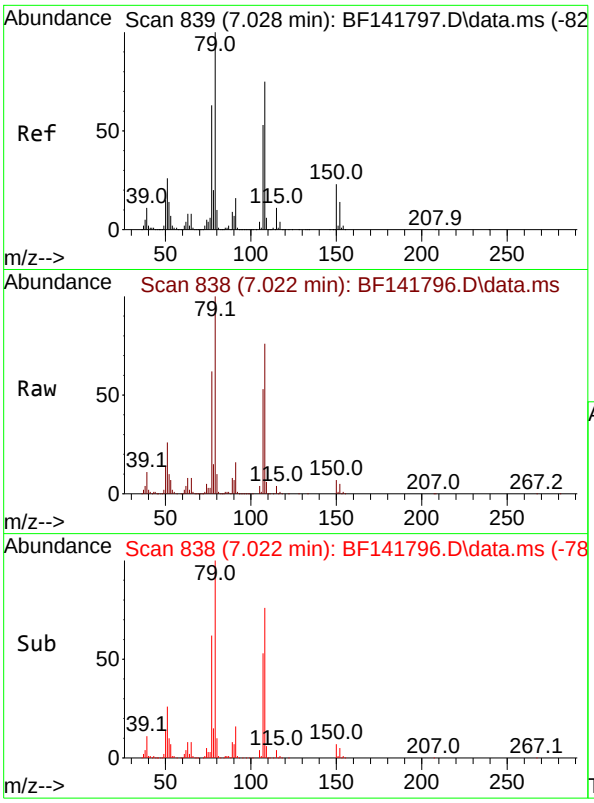


#14
1,2-Dichlorobenzene
Concen: 21.620 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

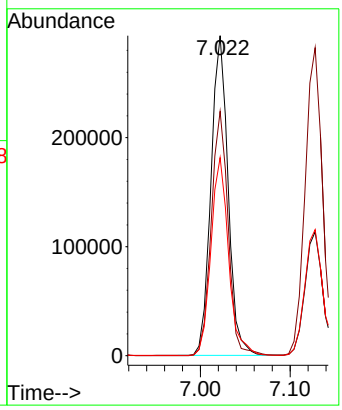




#15
Benzyl Alcohol
Concen: 21.089 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 79 Resp: 38817

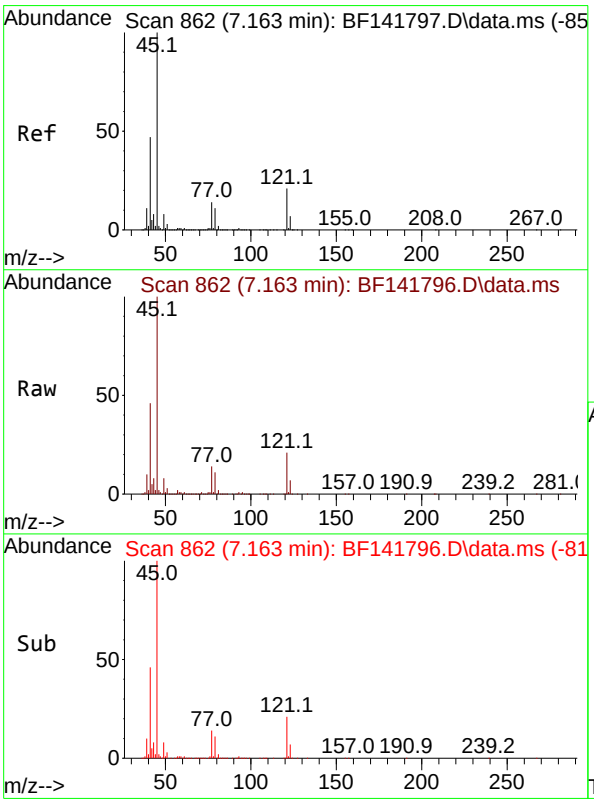
Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.2	90.2
77	61.9	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

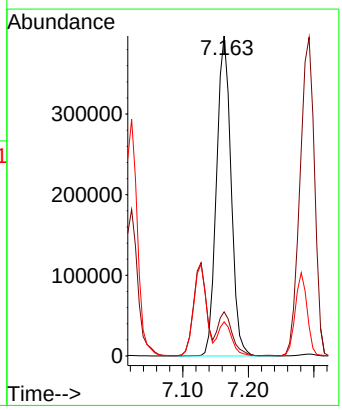
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

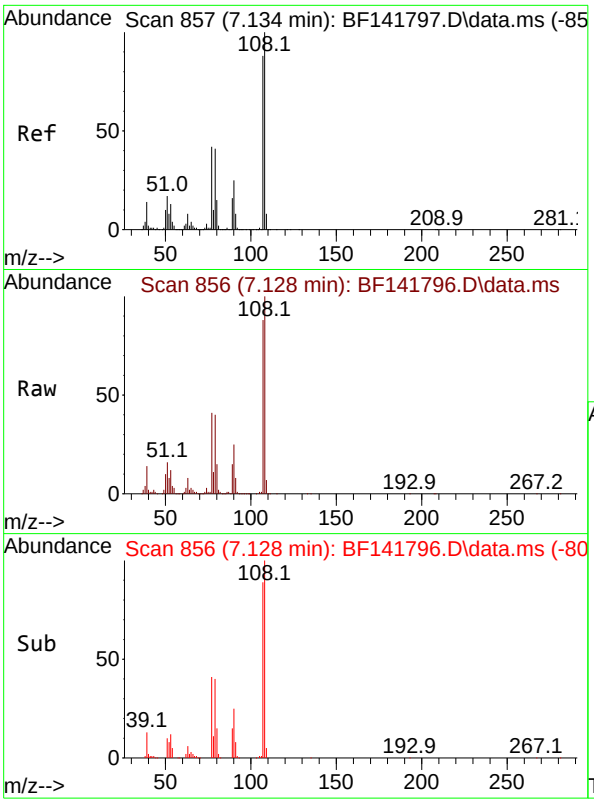


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.316 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

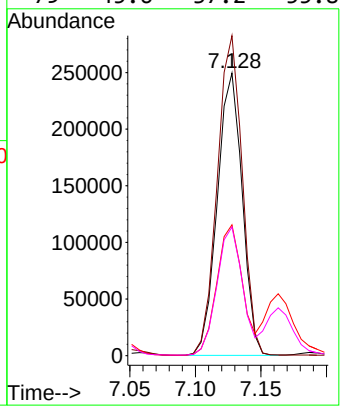




#17
2-Methylphenol
Concen: 20.839 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:107 Resp: 32926

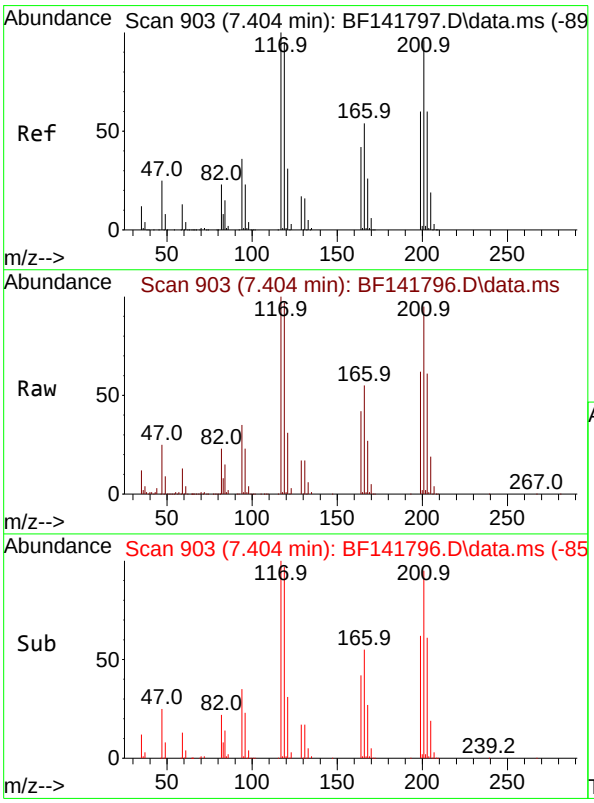
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	135.8
77	46.4	37.7	56.5
79	45.6	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

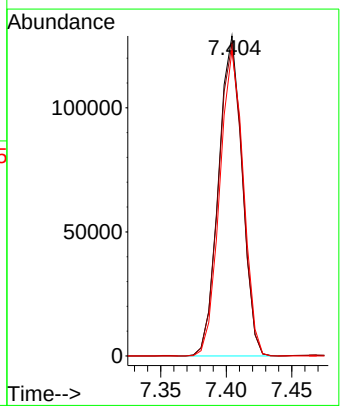
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

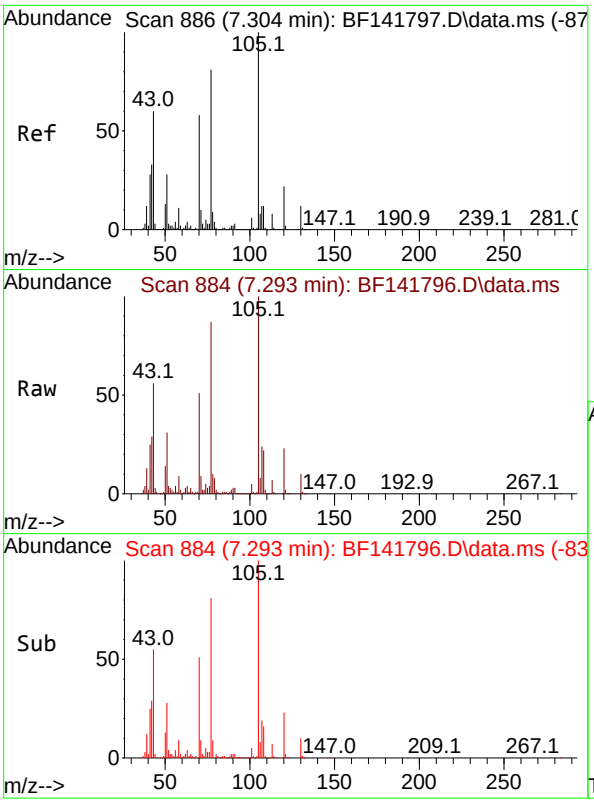


#18
Hexachloroethane
Concen: 21.002 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

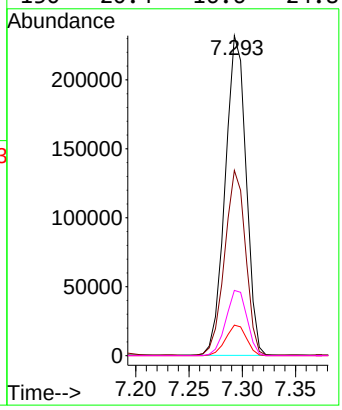




#19
n-Nitroso-di-n-propylamine
Concen: 20.904 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 70 Resp: 31648

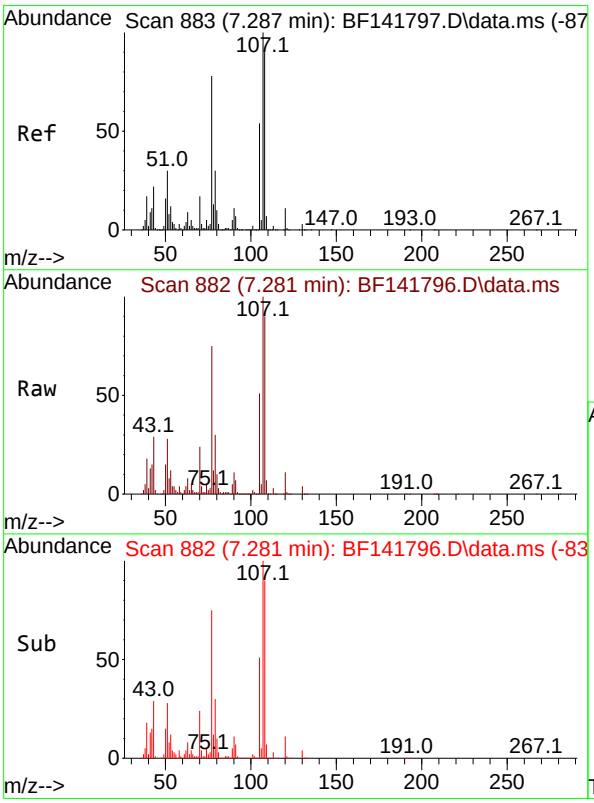
Ion	Ratio	Lower	Upper
70	100		
42	57.9	45.4	68.0
101	9.6	7.8	11.8
130	20.4	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

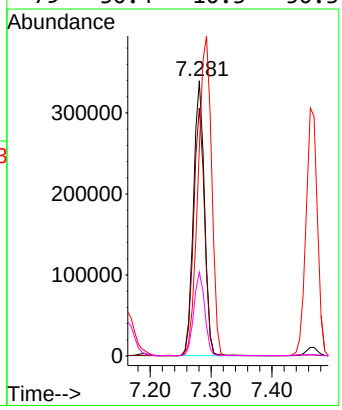
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

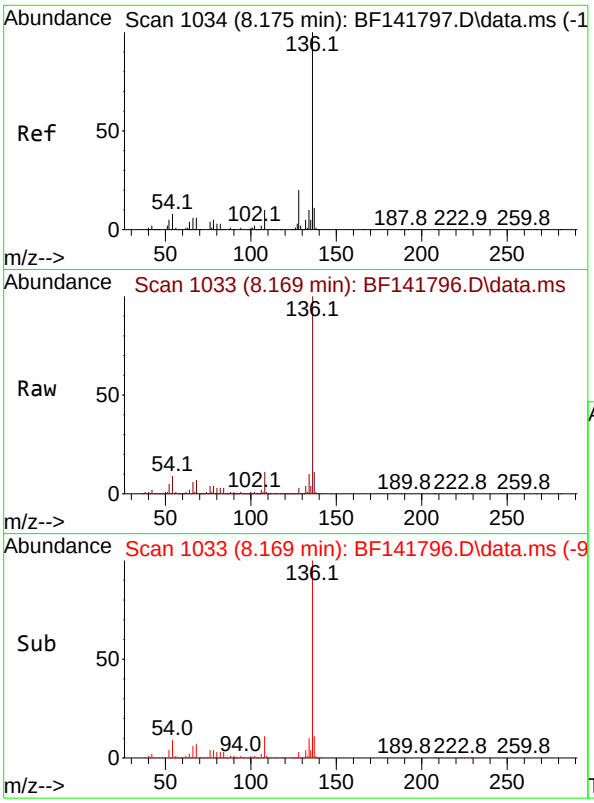


#20
3+4-Methylphenols
Concen: 21.633 ng
RT: 7.281 min Scan# 882
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

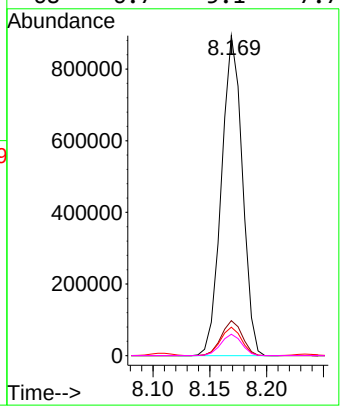




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:136 Resp: 114333

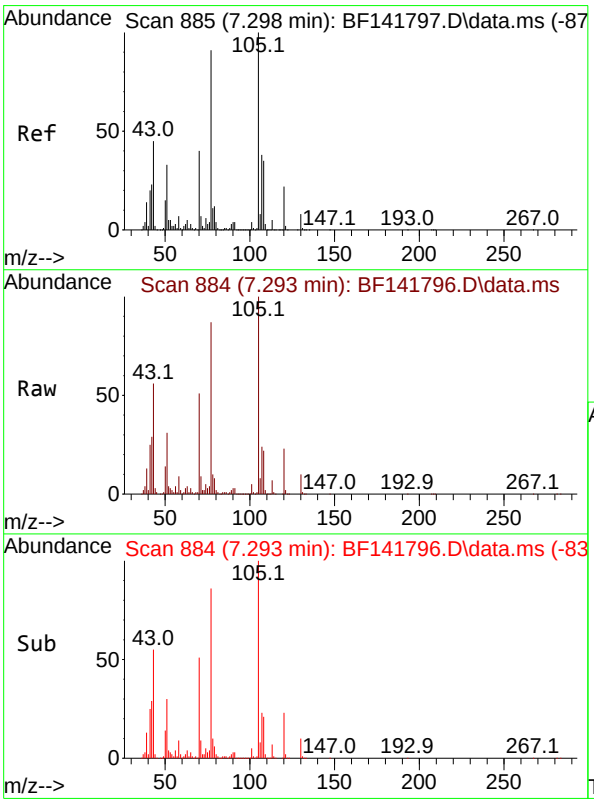
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	8.9	6.9	10.3
68	6.7	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

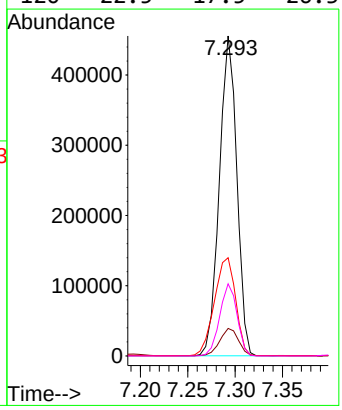
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

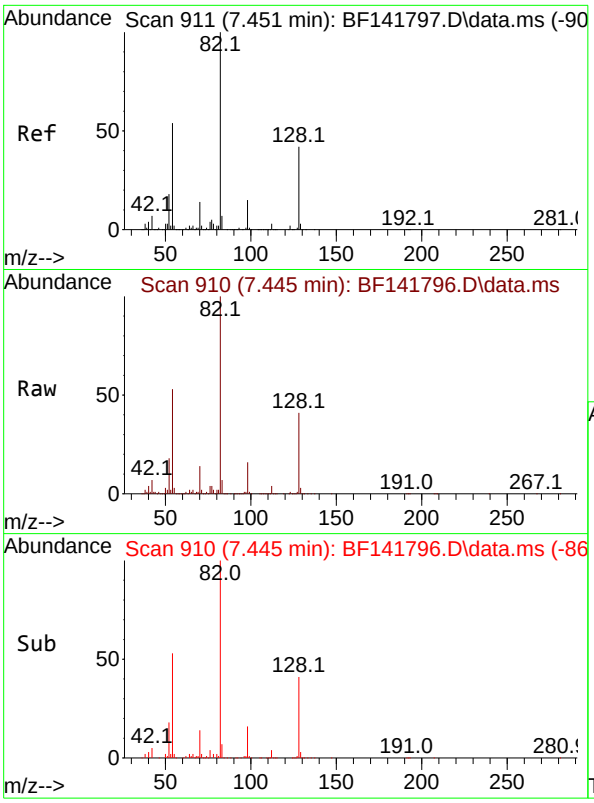


#22
Acetophenone
Concen: 21.041 ng
RT: 7.293 min Scan# 884
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

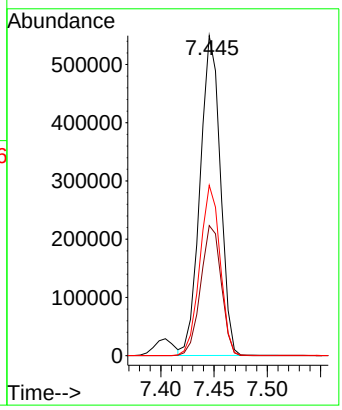




#23
Nitrobenzene-d5
Concen: 40.590 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 82 Resp: 72603

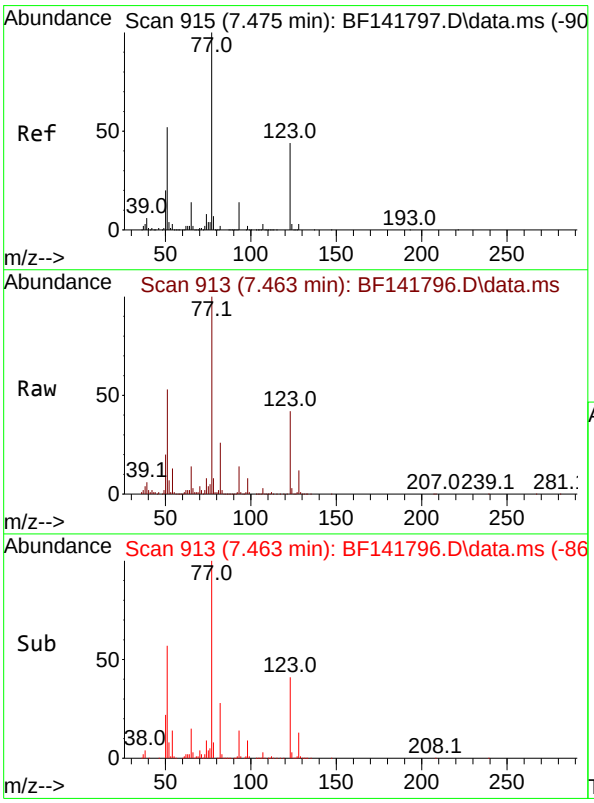
Ion	Ratio	Lower	Upper
82	100		
128	40.7	33.5	50.3
54	53.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

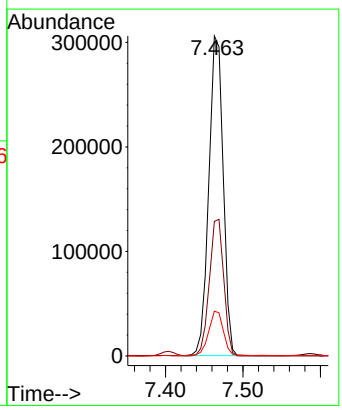
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

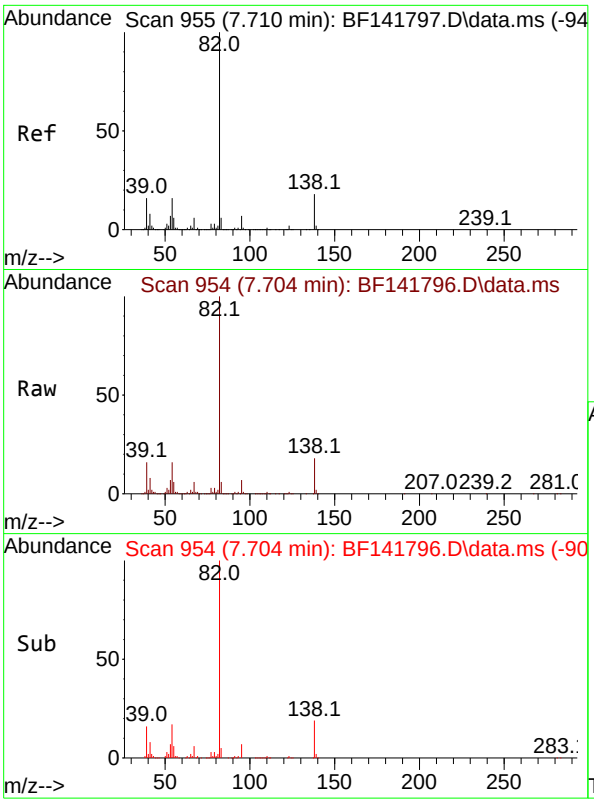


#24
Nitrobenzene
Concen: 20.649 ng
RT: 7.463 min Scan# 913
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

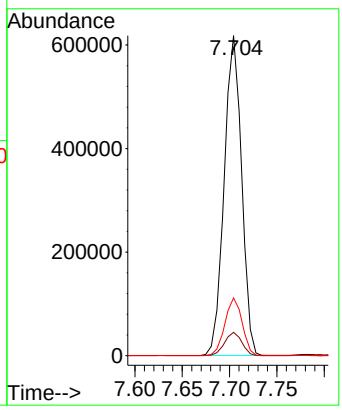




#25
Isophorone
Concen: 20.541 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 82 Resp: 78934

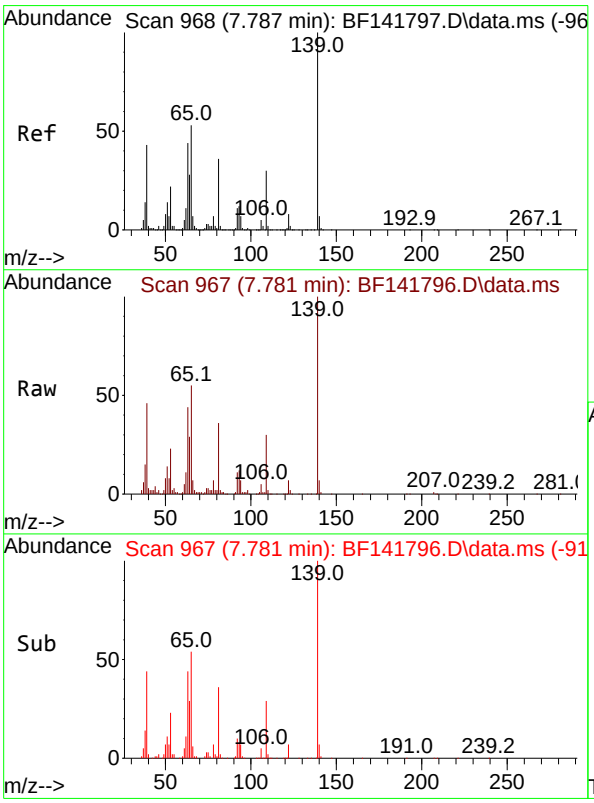
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	18.1	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

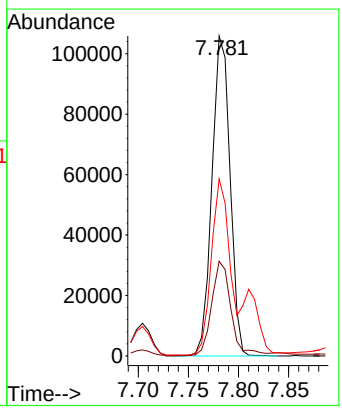
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

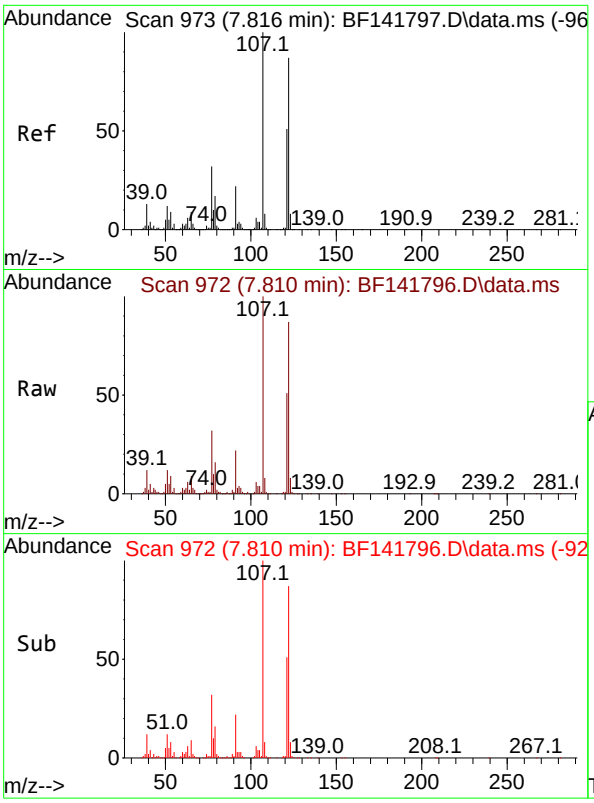


#26
2-Nitrophenol
Concen: 18.604 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

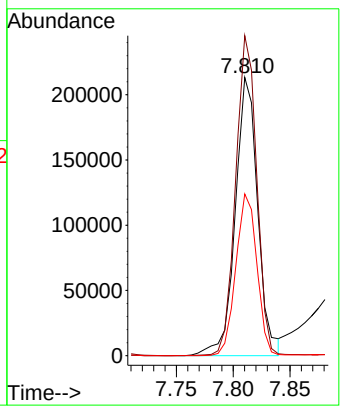




#27
2,4-Dimethylphenol
Concen: 20.740 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:122 Resp: 29296

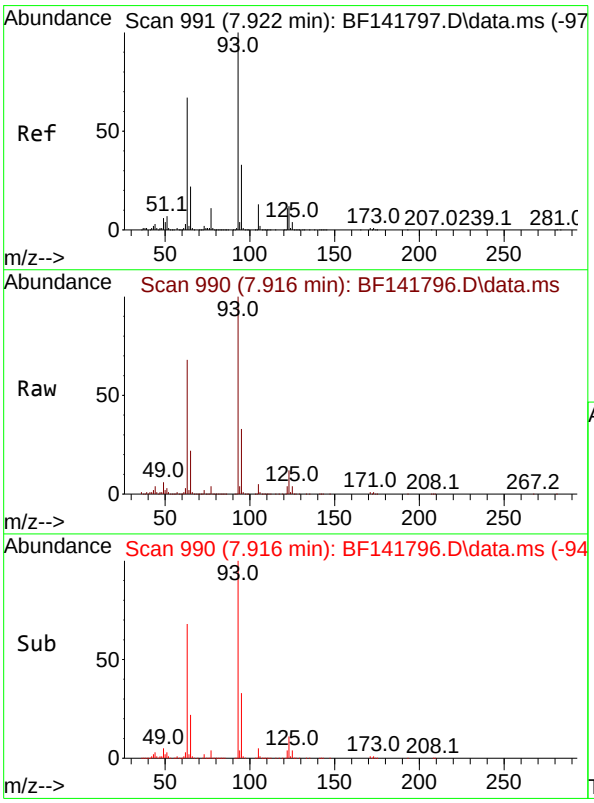
Ion	Ratio	Lower	Upper
122	100		
107	115.0	92.5	138.7
121	58.1	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

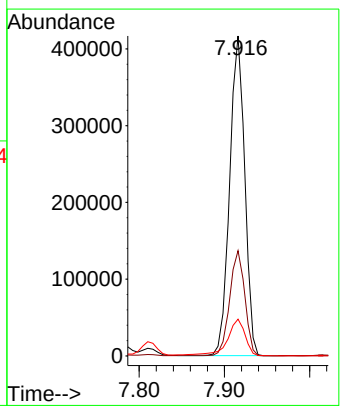
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

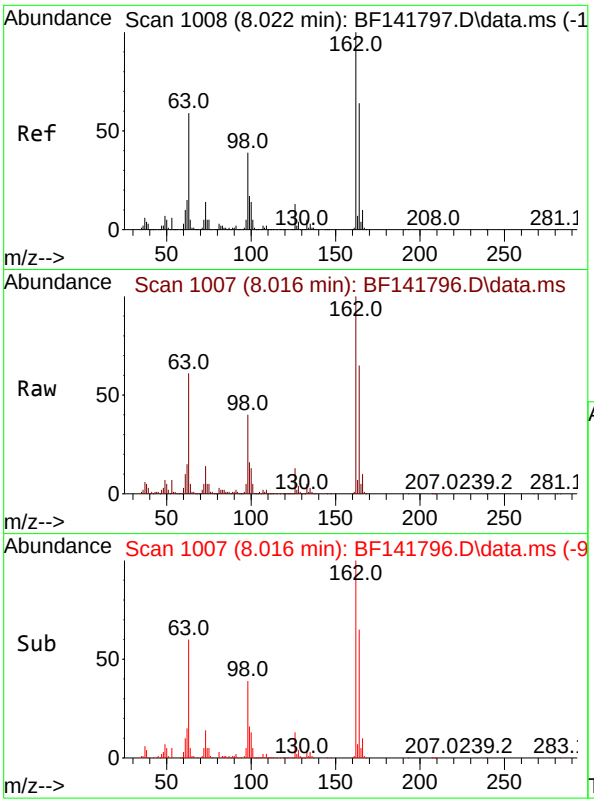


#28
bis(2-Chloroethoxy)methane
Concen: 20.966 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

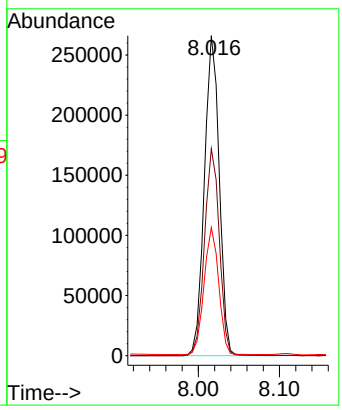




#29
2,4-Dichlorophenol
Concen: 20.749 ng
RT: 8.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 33812

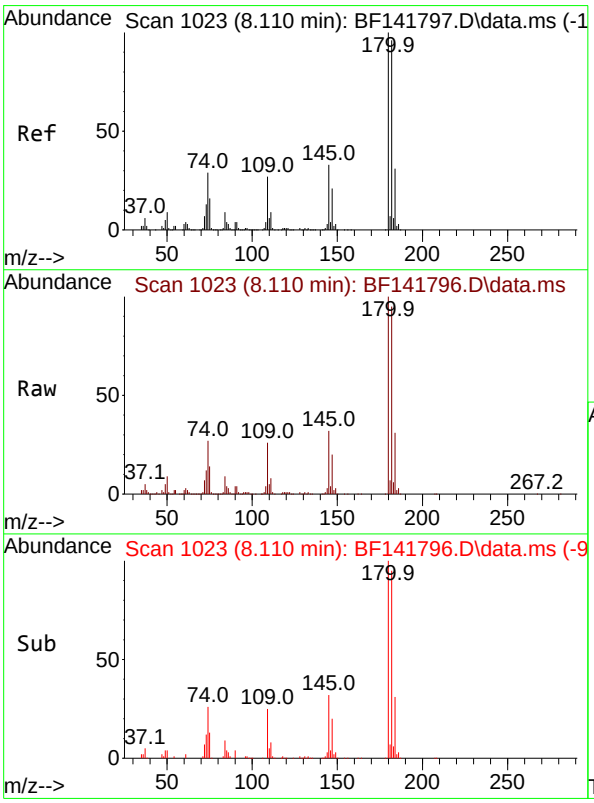
Ion	Ratio	Lower	Upper
162	100		
164	64.7	44.3	84.3
98	40.0	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

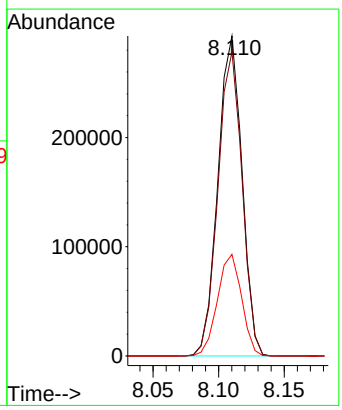
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

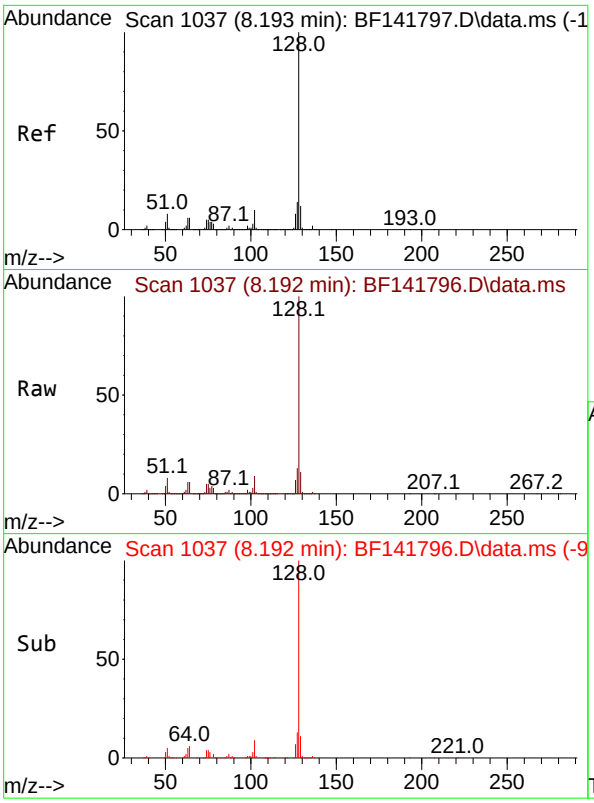


#30
1,2,4-Trichlorobenzene
Concen: 20.955 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

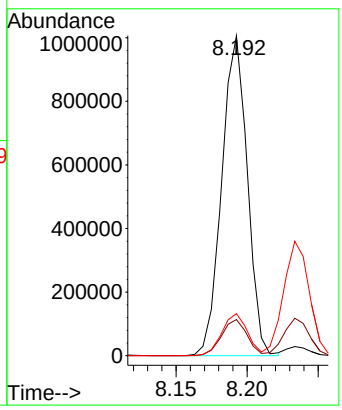




#31
Naphthalene
Concen: 21.409 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:128 Resp: 125808

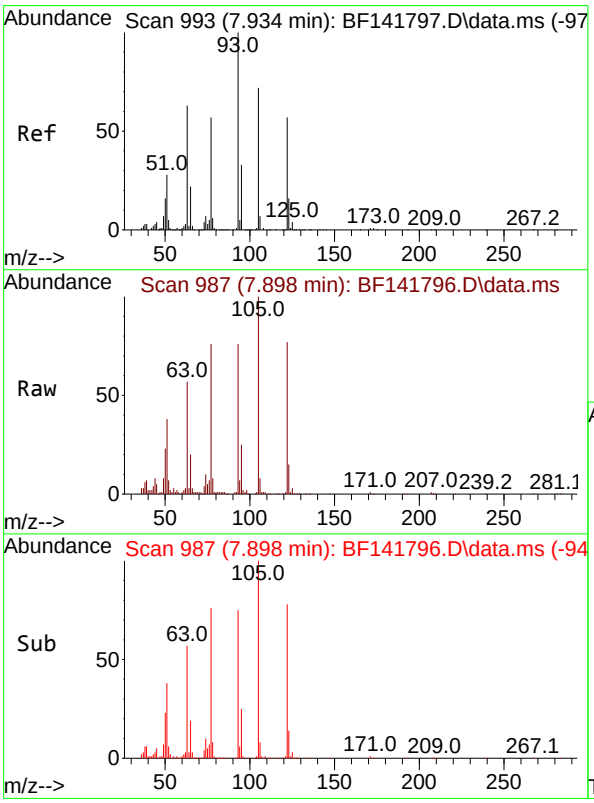
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

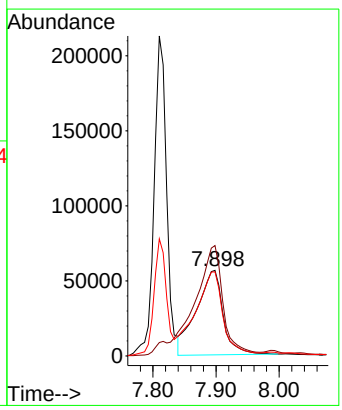
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

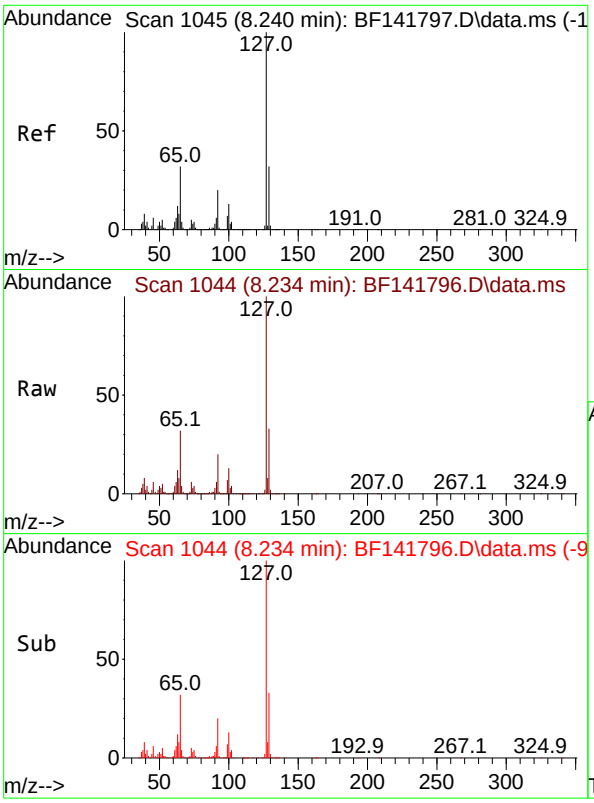


#32
Benzoic acid
Concen: 19.487 ng
RT: 7.898 min Scan# 987
Delta R.T. -0.036 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

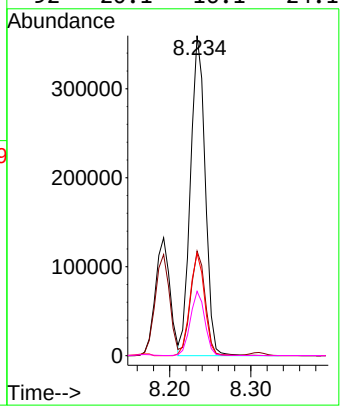




#33
4-Chloroaniline
Concen: 21.097 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:127 Resp: 45456

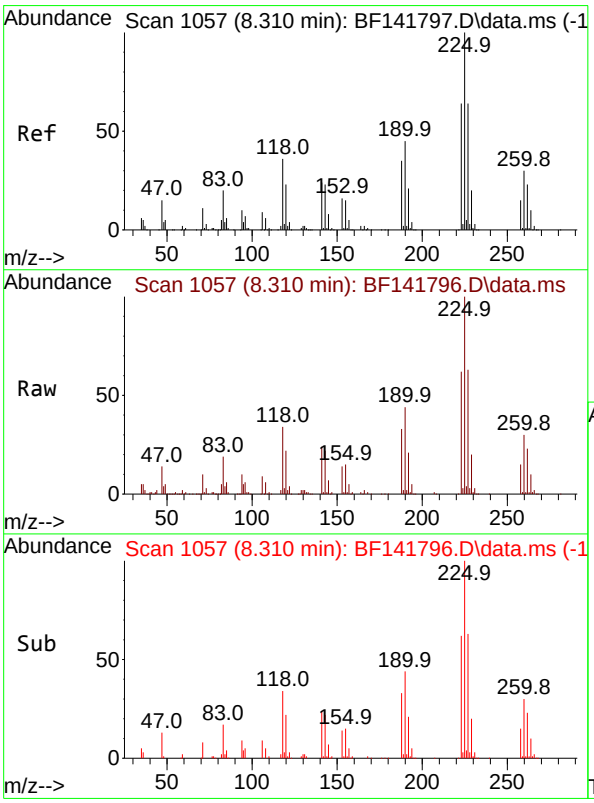
Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.1	39.1
65	32.0	25.7	38.5
92	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

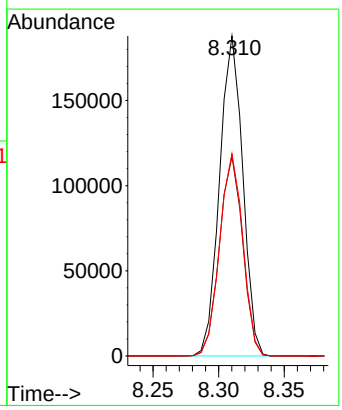
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

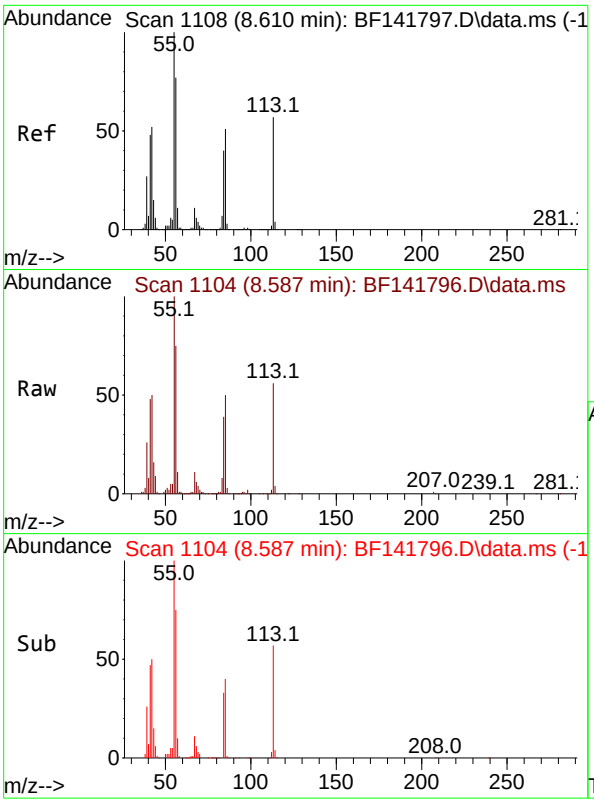


#34
Hexachlorobutadiene
Concen: 20.776 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

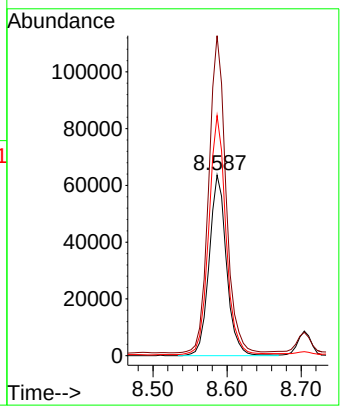




#35
Caprolactam
Concen: 20.521 ng
RT: 8.587 min Scan# 11
Delta R.T. -0.024 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:113 Resp: 10289

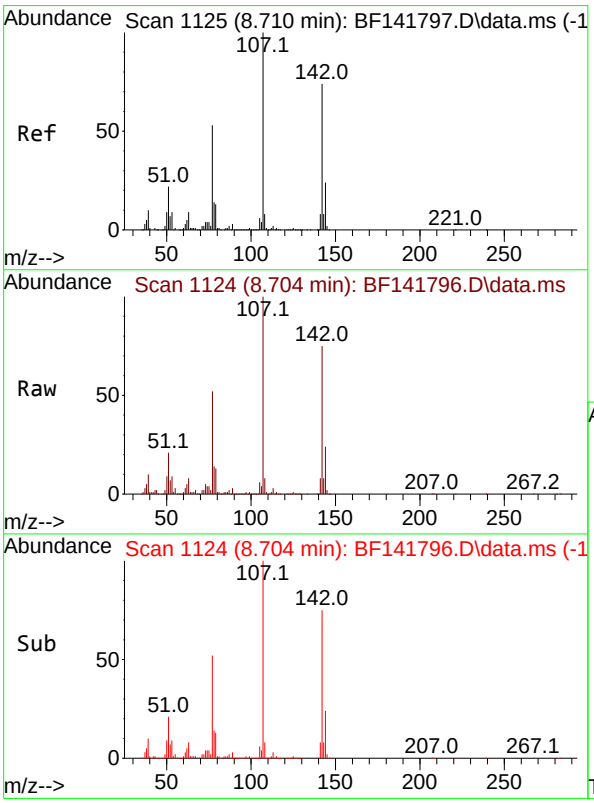
Ion	Ratio	Lower	Upper
113	100		
55	177.2	155.6	195.6
56	132.9	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

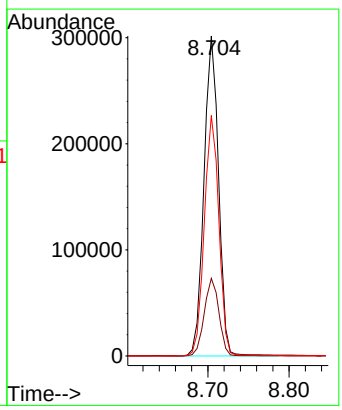
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

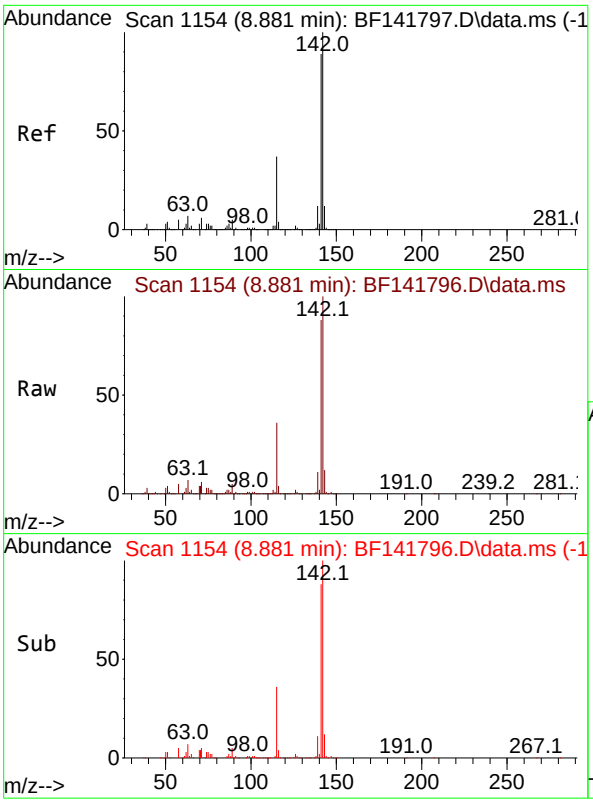


#36
4-Chloro-3-methylphenol
Concen: 20.776 ng
RT: 8.704 min Scan# 1124
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

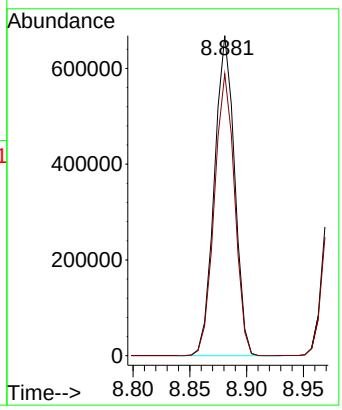




#37
2-Methylnaphthalene
Concen: 21.443 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 82649

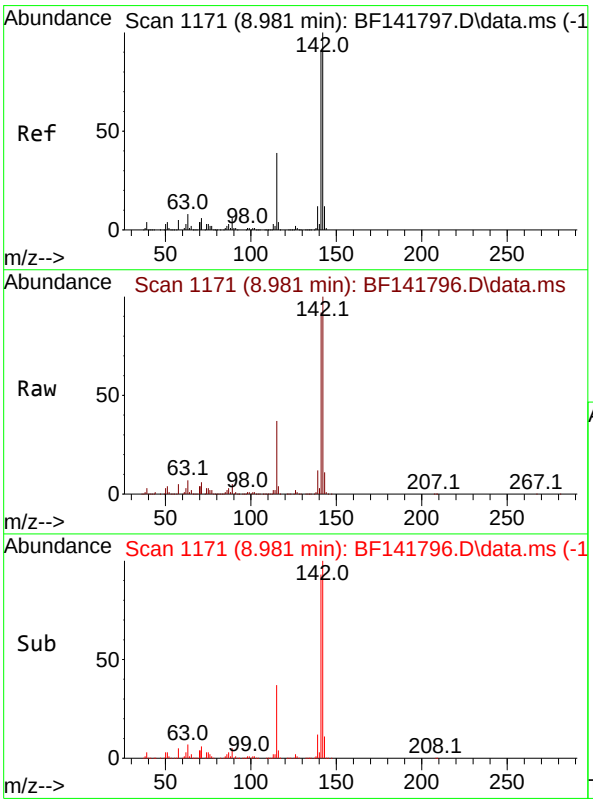
Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

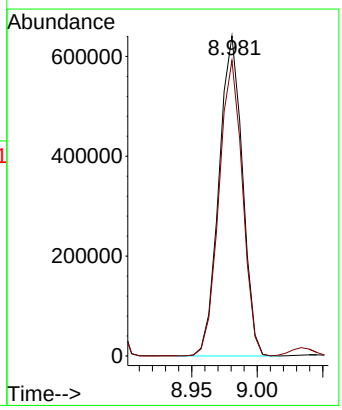
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

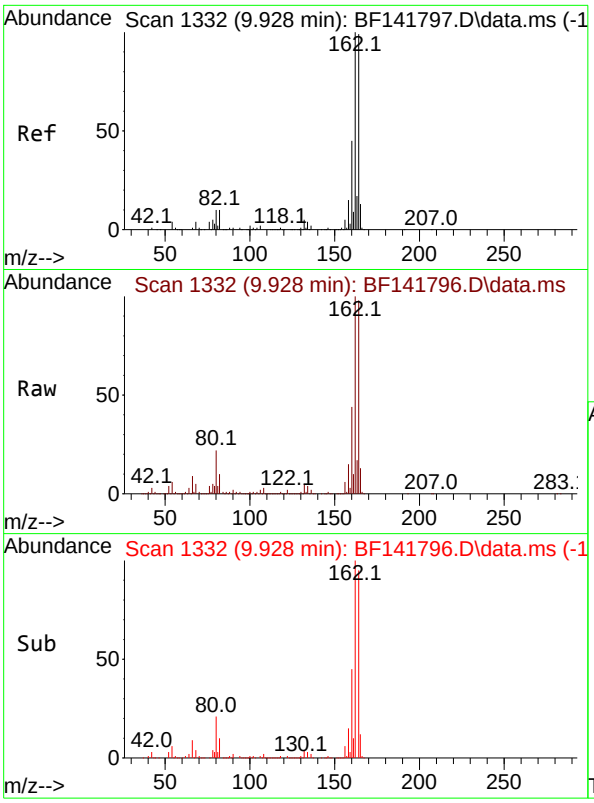


#38
1-Methylnaphthalene
Concen: 21.545 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:142 Resp: 796808

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

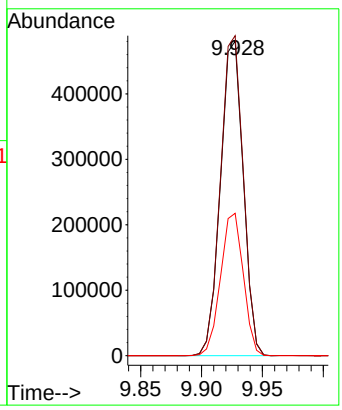




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:164 Resp: 62633

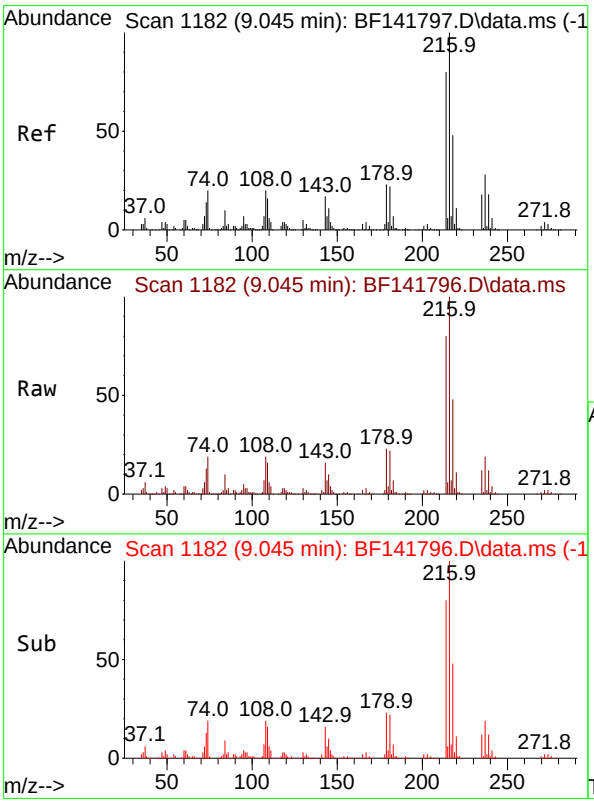
Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.6	120.8
160	45.3	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

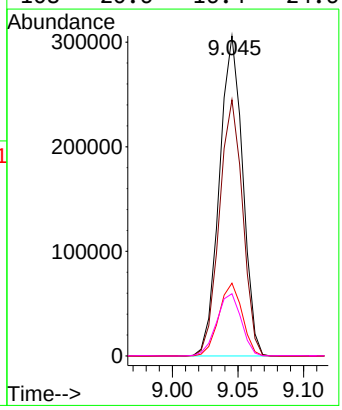
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

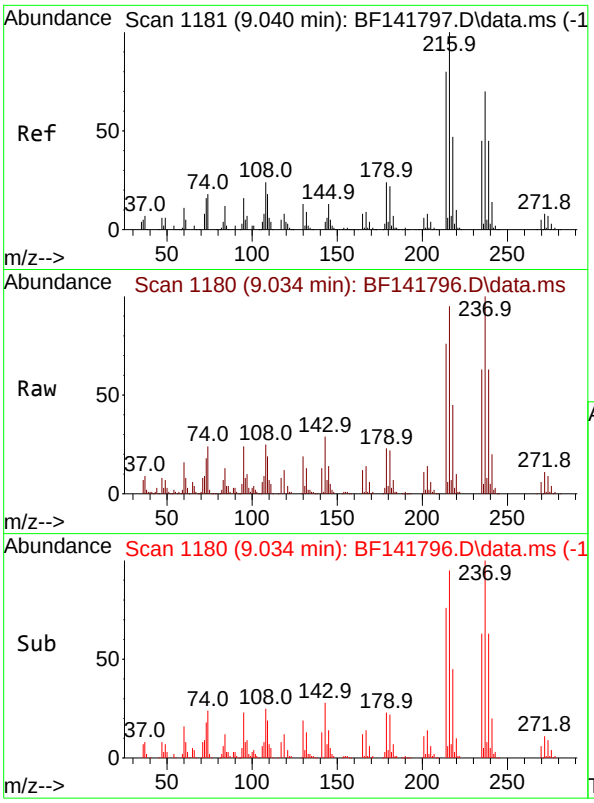


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.861 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

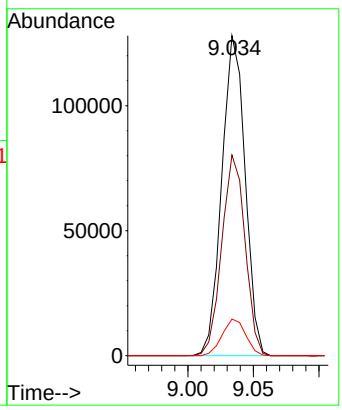




#41
Hexachlorocyclopentadiene
Concen: 20.943 ng
RT: 9.034 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:237 Resp: 15810

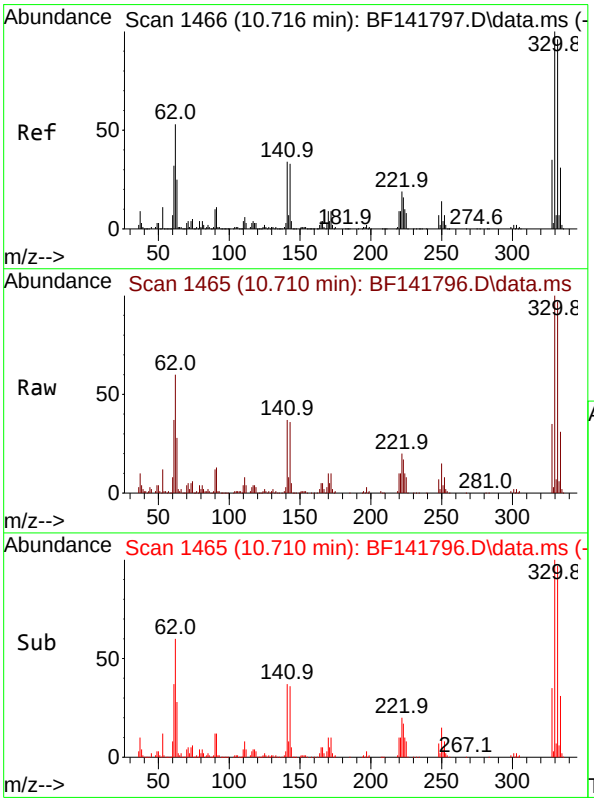
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.3	83.3
272	11.4	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

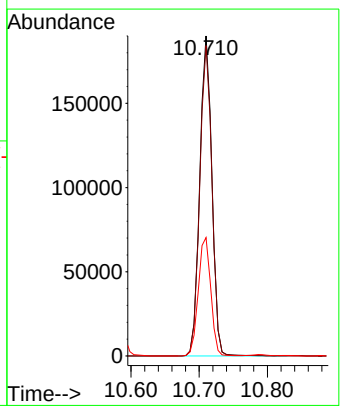
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

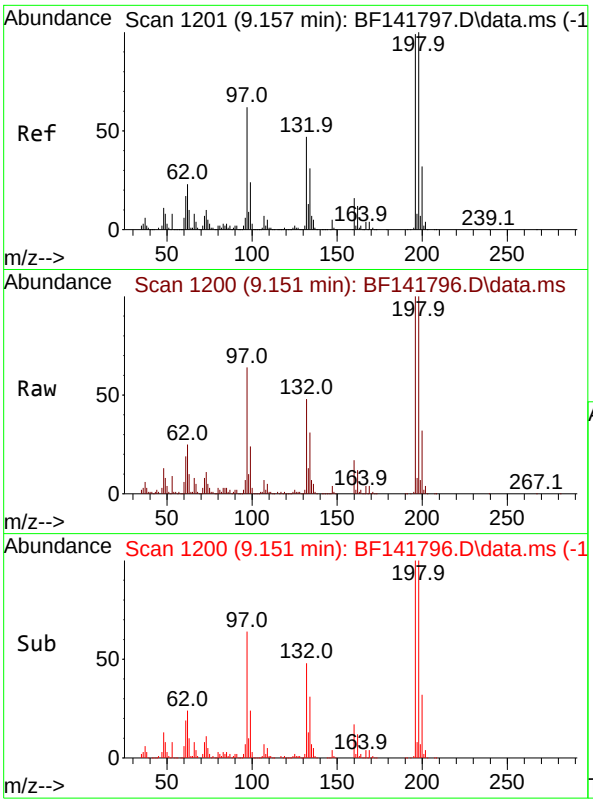


#42
2,4,6-Tribromophenol
Concen: 39.990 ng
RT: 10.710 min Scan# 1465
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

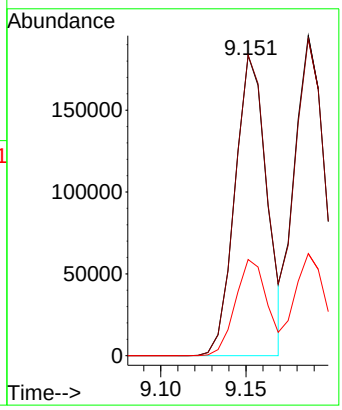




#43
2,4,6-Trichlorophenol
Concen: 20.419 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:196 Resp: 23859

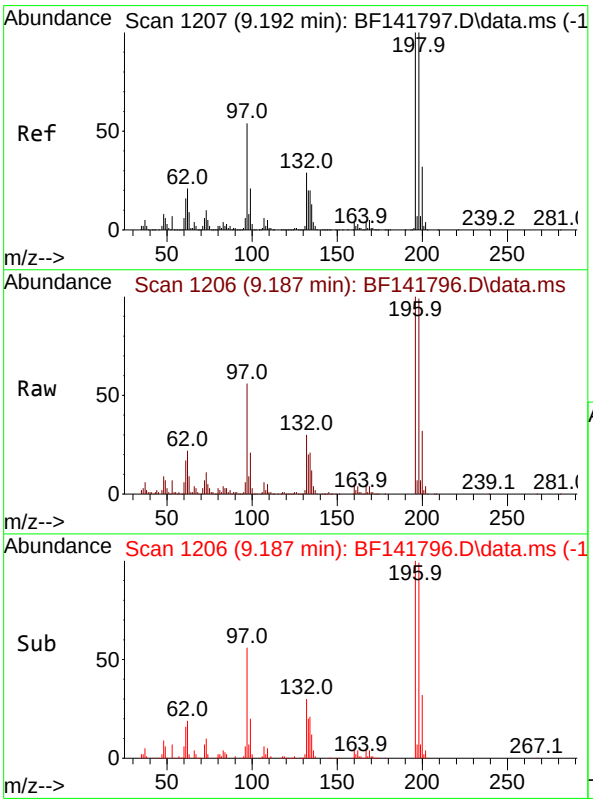
Ion	Ratio	Lower	Upper
196	100		
198	100.1	80.4	120.6
200	32.0	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

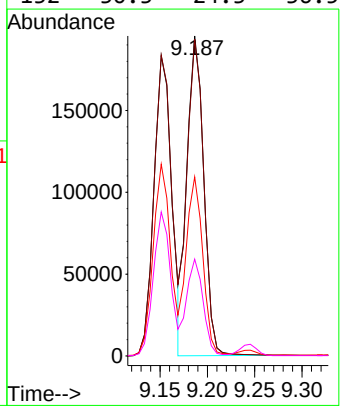
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

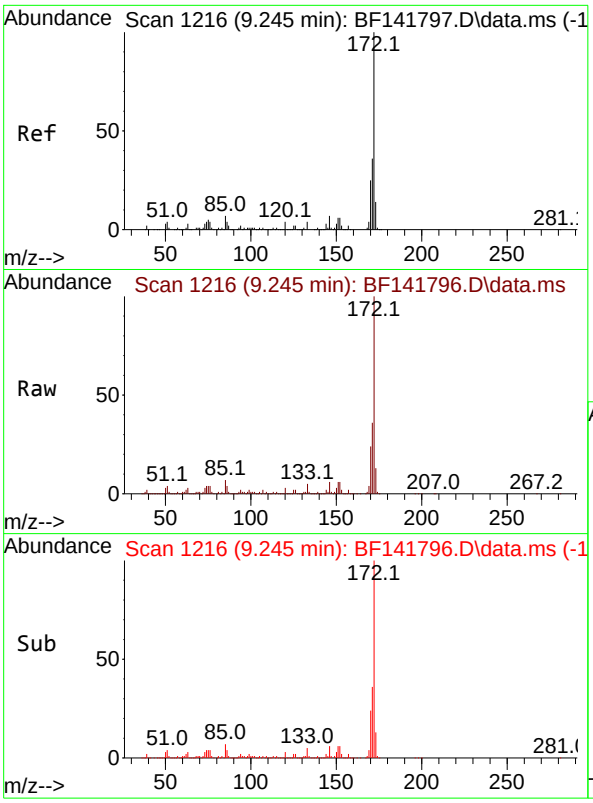


#44
2,4,5-Trichlorophenol
Concen: 20.976 ng
RT: 9.187 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

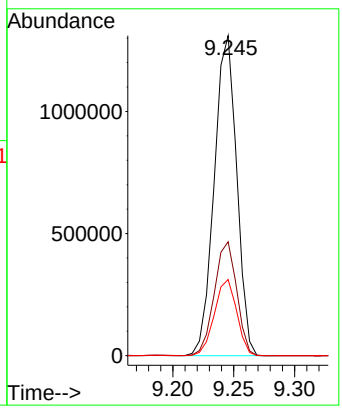




#45
2-Fluorobiphenyl
Concen: 43.170 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:172 Resp: 168631

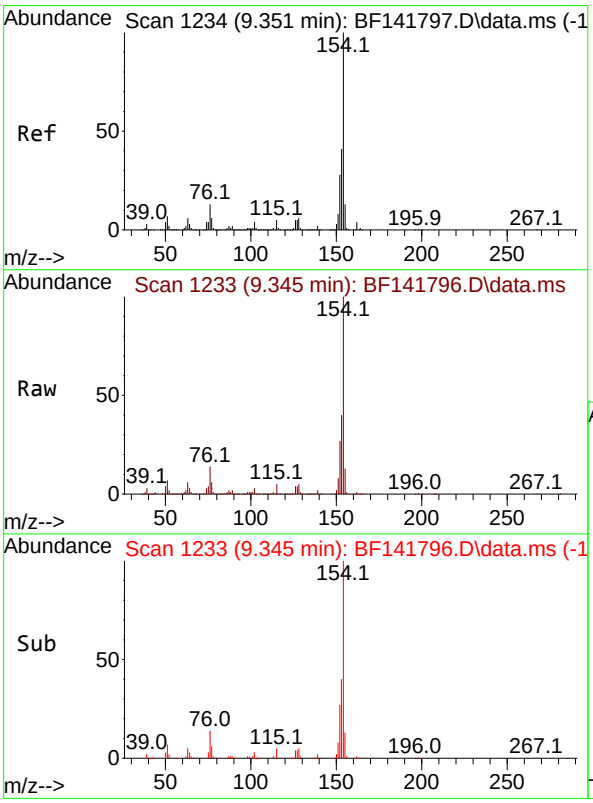
Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.8	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

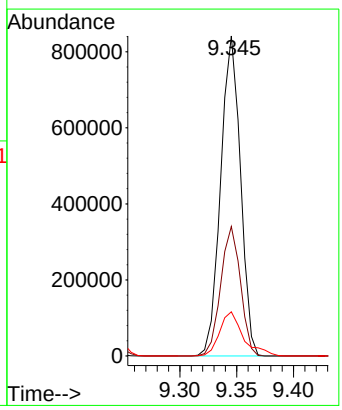
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

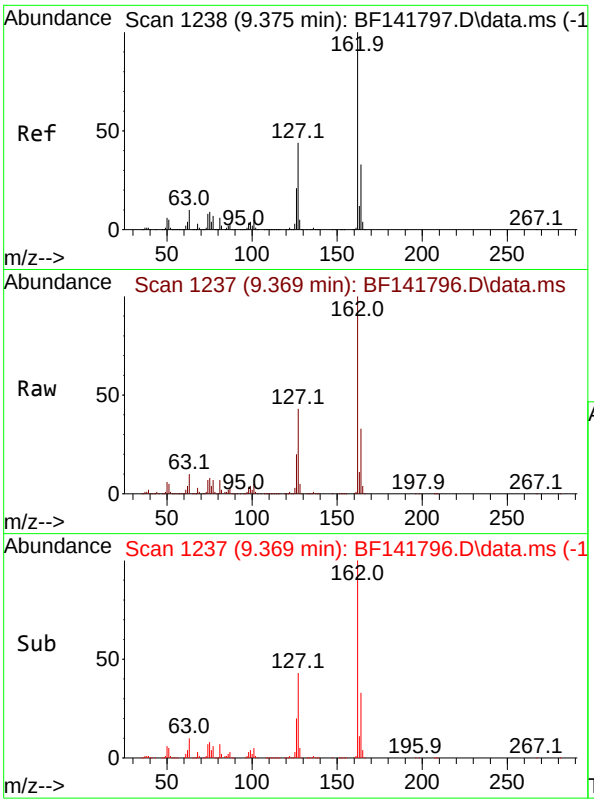


#46
1,1'-Biphenyl
Concen: 21.418 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

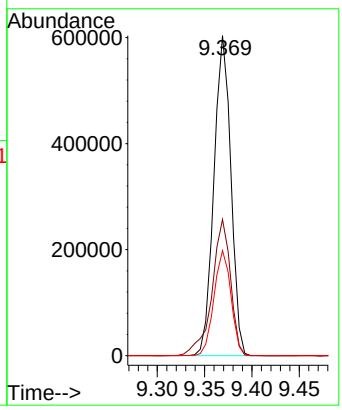




#47
2-Chloronaphthalene
Concen: 21.375 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:162 Resp: 75214

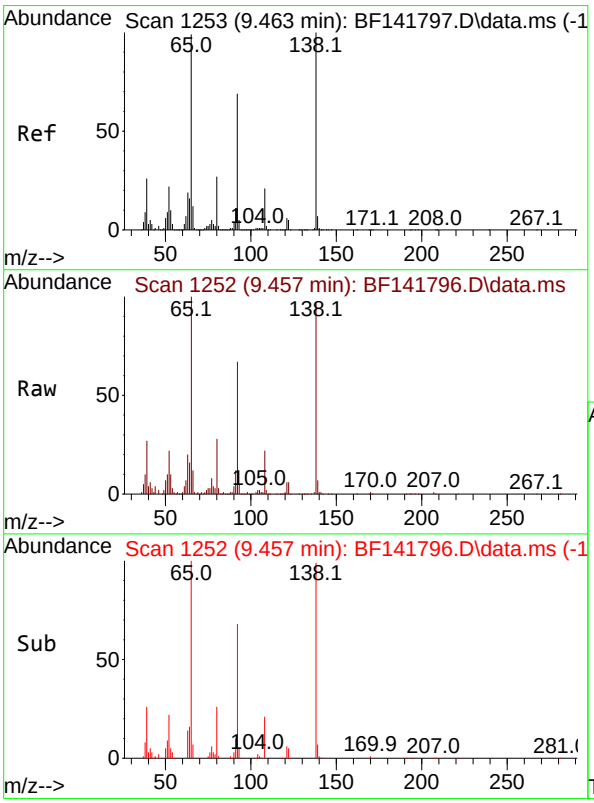
Ion	Ratio	Lower	Upper
162	100		
127	42.5	35.0	52.6
164	32.9	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

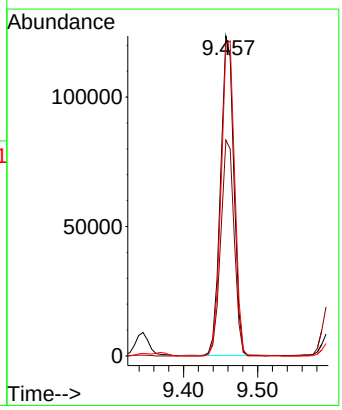
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

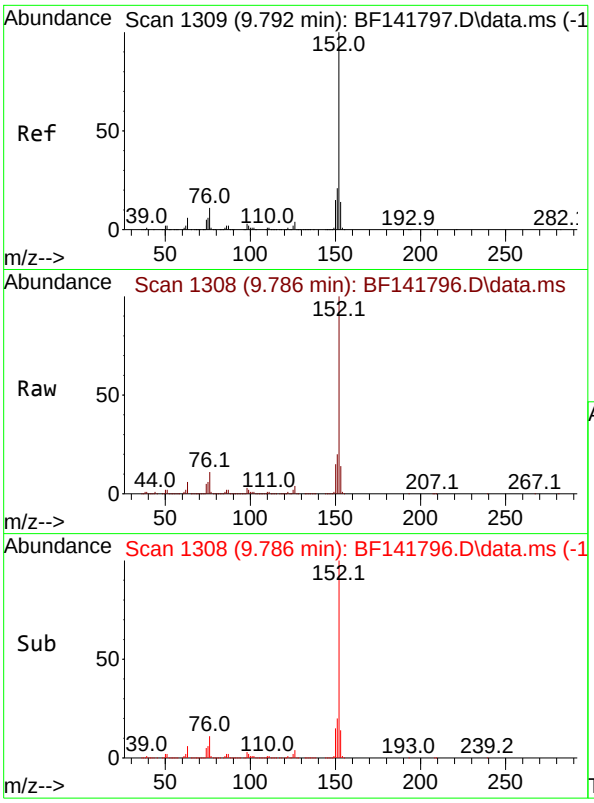


#48
2-Nitroaniline
Concen: 18.870 ng
RT: 9.457 min Scan# 1252
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

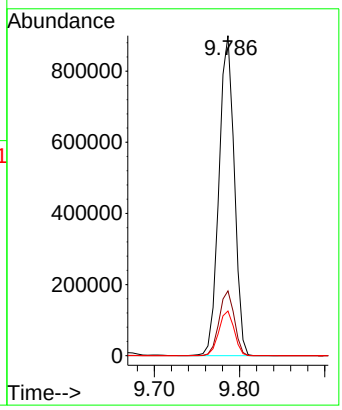




#49
Acenaphthylene
Concen: 21.349 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:152 Resp: 112630

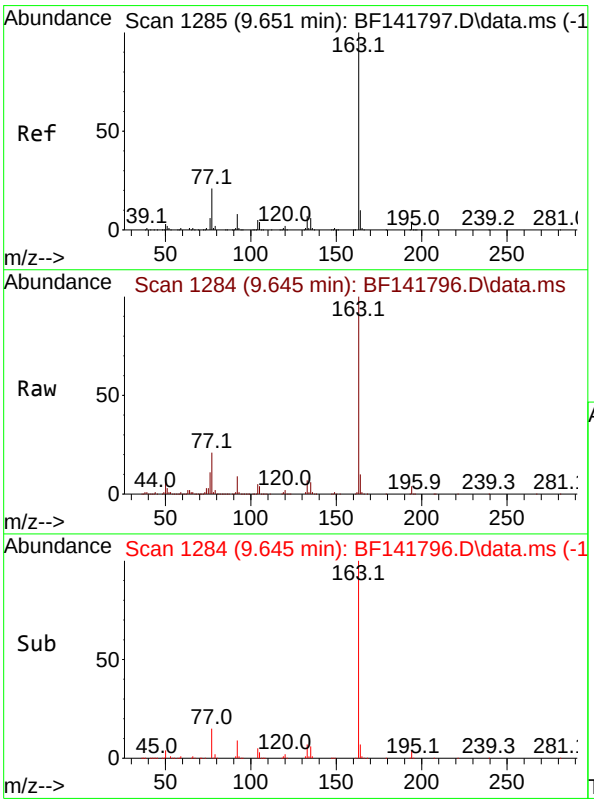
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.6	24.8
153	13.9	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

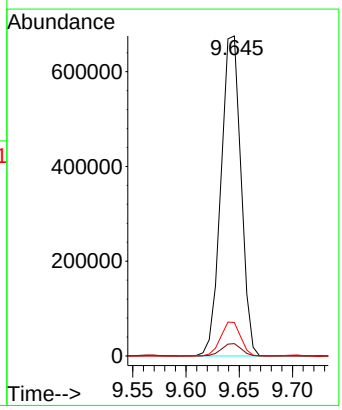
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

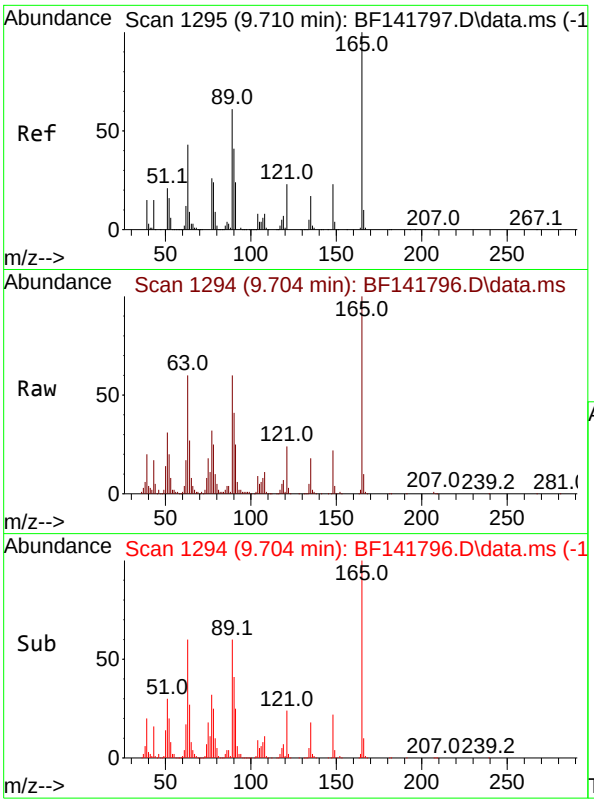


#50
Dimethylphthalate
Concen: 20.977 ng
RT: 9.645 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

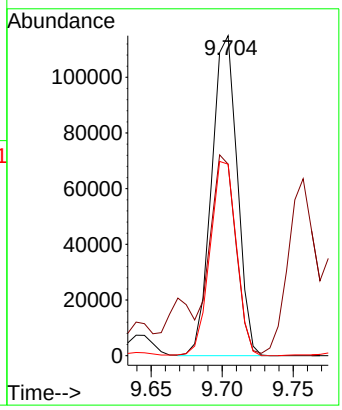




#51
2,6-Dinitrotoluene
Concen: 19.796 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:165 Resp: 14467

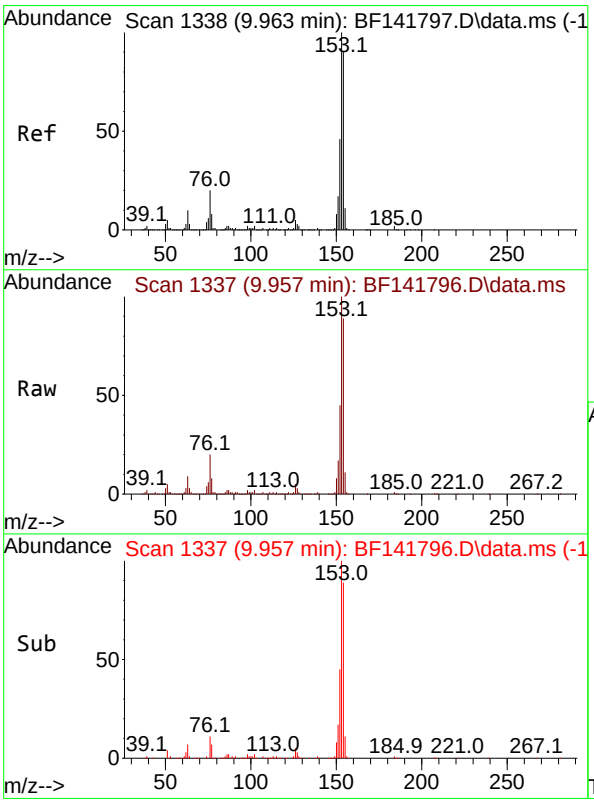
Ion	Ratio	Lower	Upper
165	100		
63	59.9	49.5	74.3
89	59.8	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

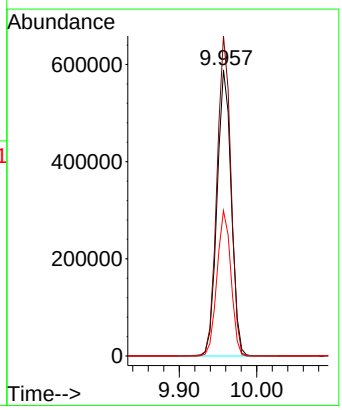
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

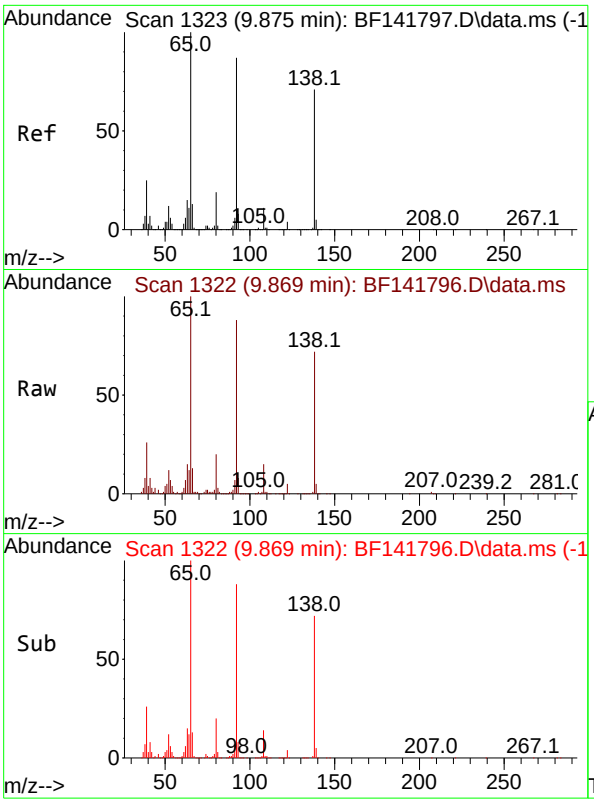


#52
Acenaphthene
Concen: 21.068 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

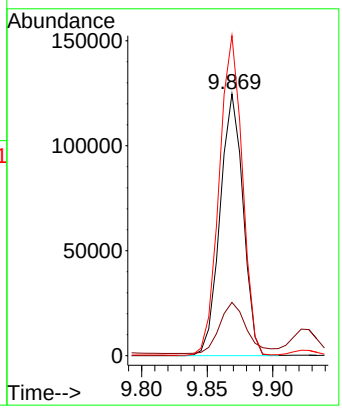
Tgt Ion:138 Resp: 15211

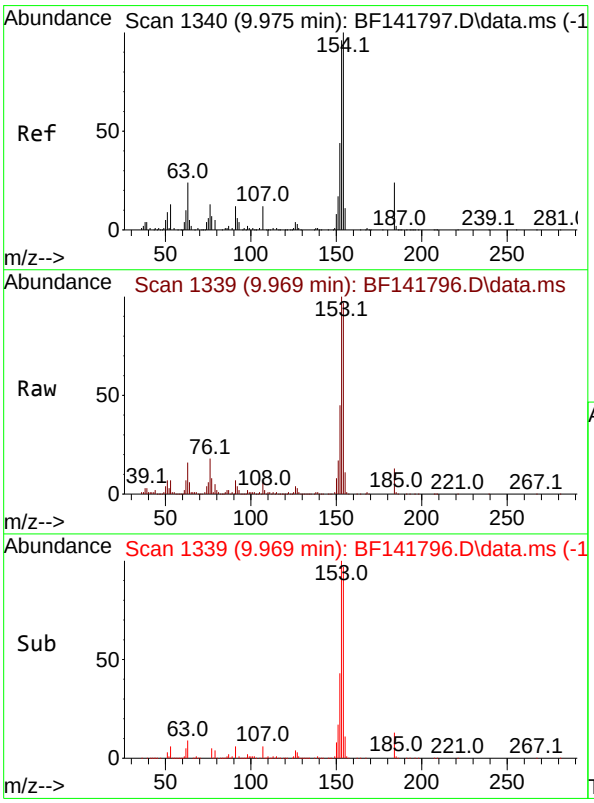
Ion	Ratio	Lower	Upper
138	100		
108	20.3	12.7	19.1#
92	122.3	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

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

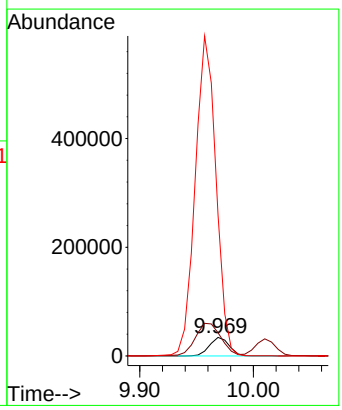


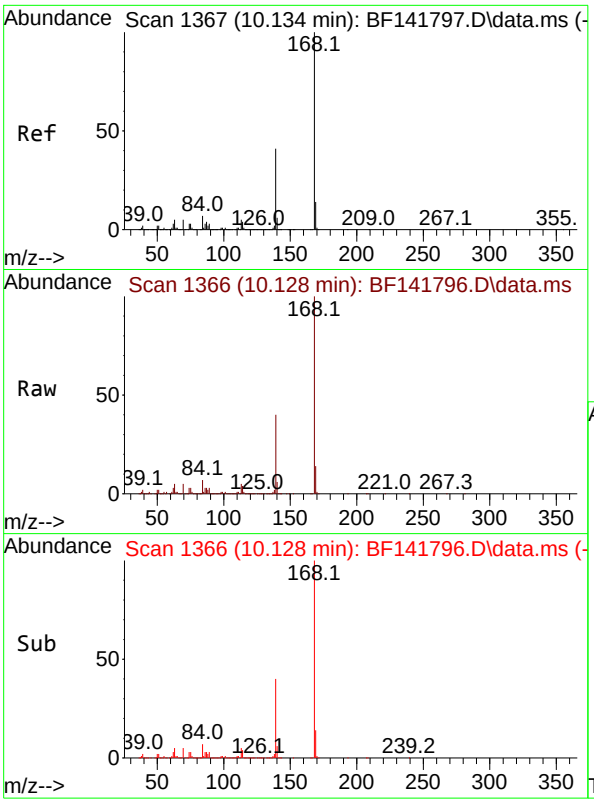


#54
2,4-Dinitrophenol
Concen: 19.116 ng
RT: 9.969 min Scan# 1339
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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#

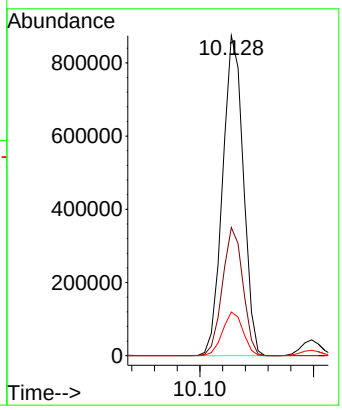




#55
Dibenzofuran
Concen: 21.332 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:168 Resp: 110527

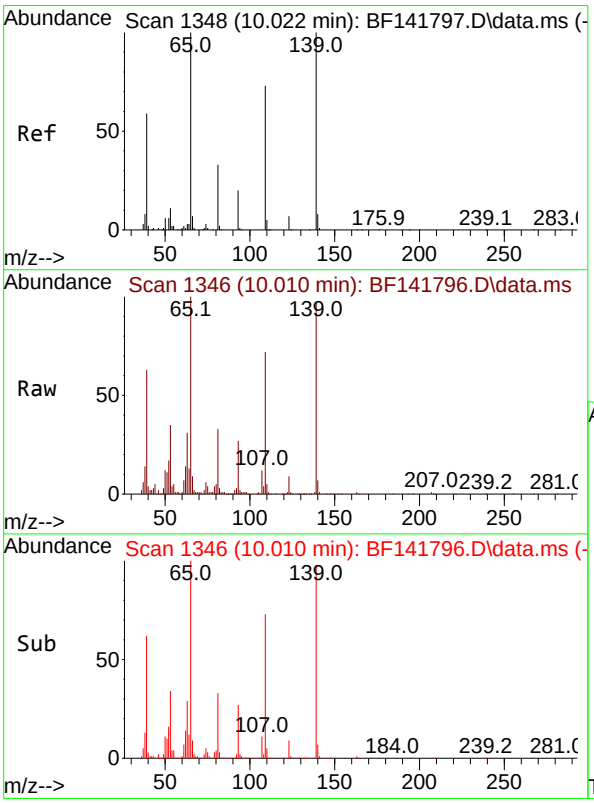
Ion	Ratio	Lower	Upper
168	100		
139	40.1	32.9	49.3
169	13.6	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

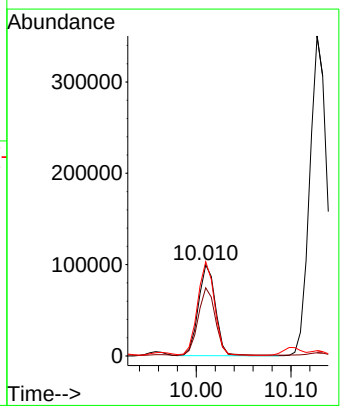
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

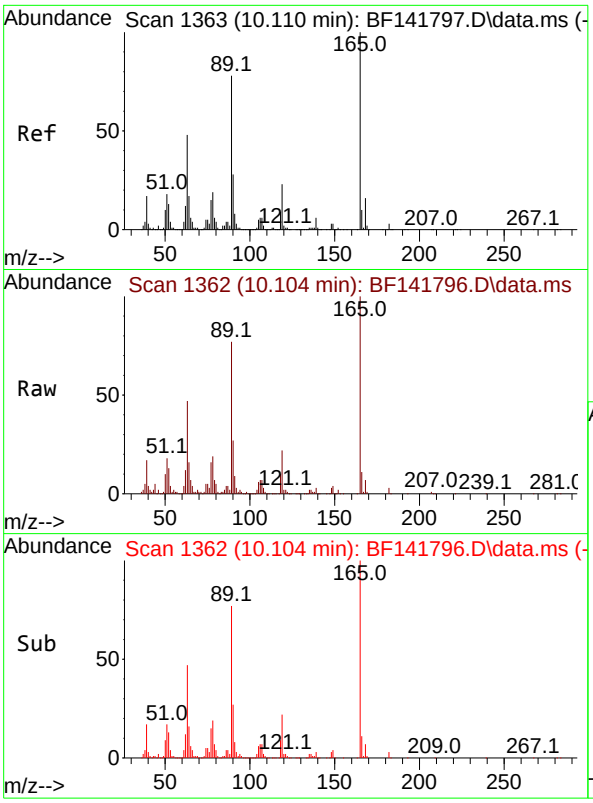


#56
4-Nitrophenol
Concen: 19.922 ng
RT: 10.010 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

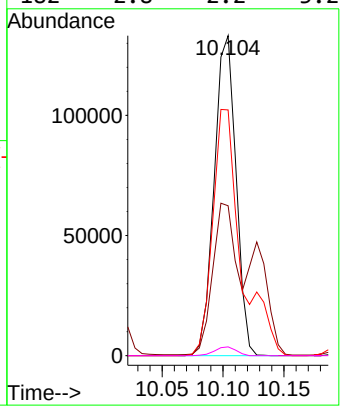




#57
2,4-Dinitrotoluene
Concen: 19.214 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:165 Resp: 16594

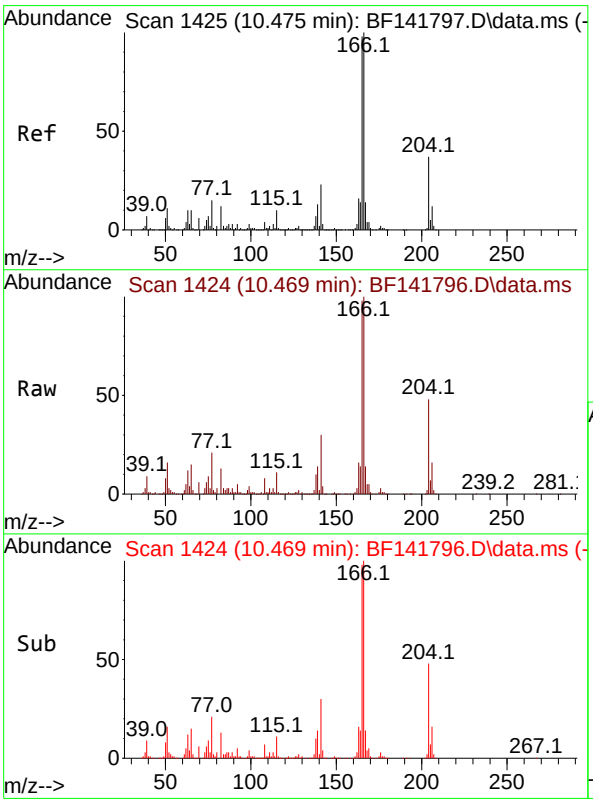
Ion	Ratio	Lower	Upper
165	100		
63	46.9	38.8	58.2
89	76.8	62.6	94.0
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

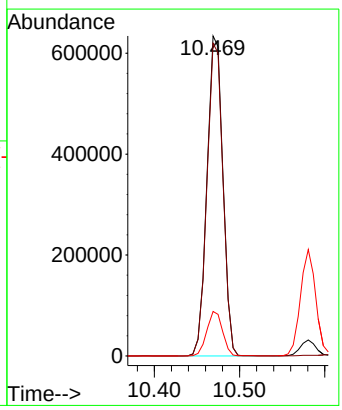
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

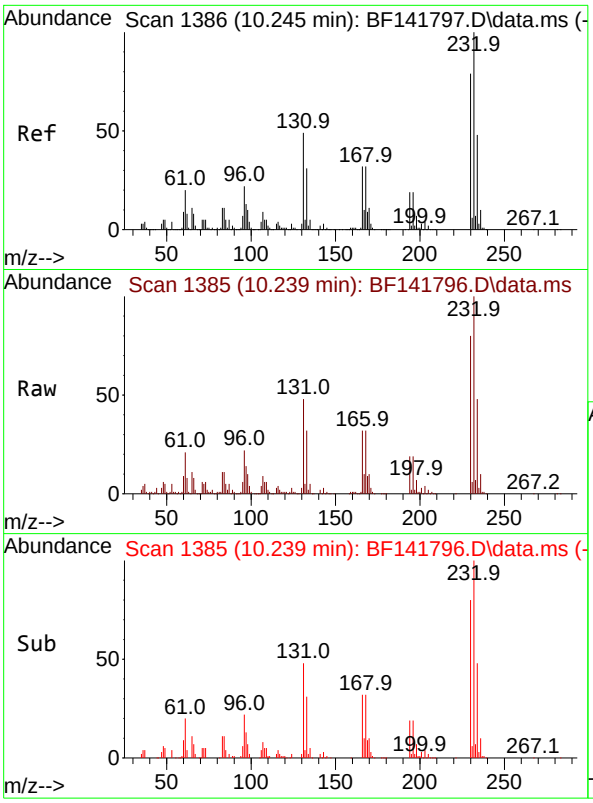


#58
Fluorene
Concen: 21.187 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

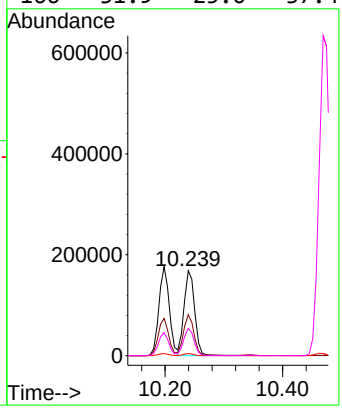




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.902 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:232 Resp: 21033

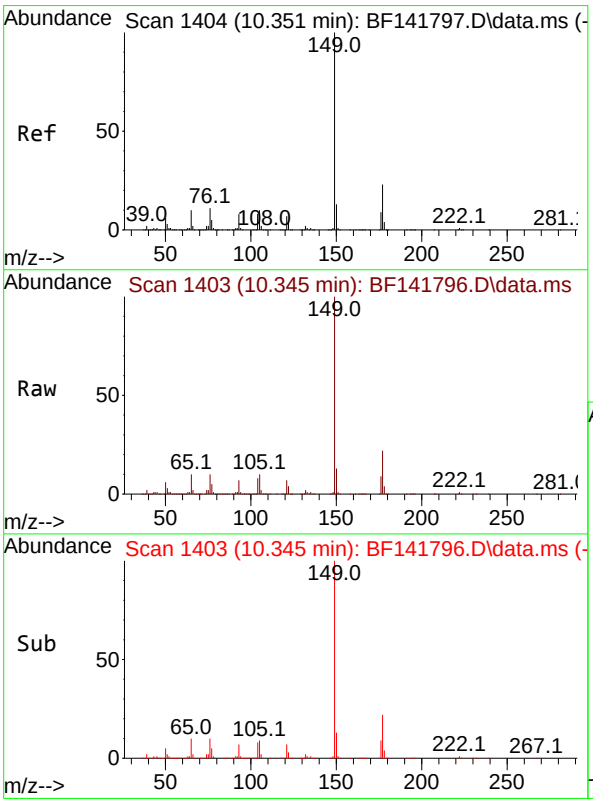
Ion	Ratio	Lower	Upper
232	100		
131	47.6	37.8	56.8
130	2.5	2.0	3.0
166	31.9	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

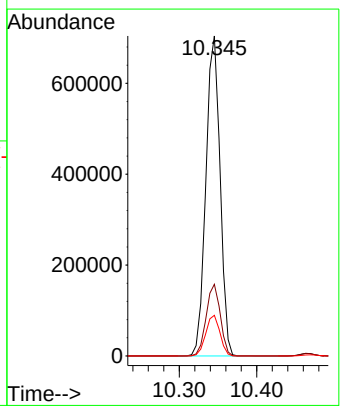
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

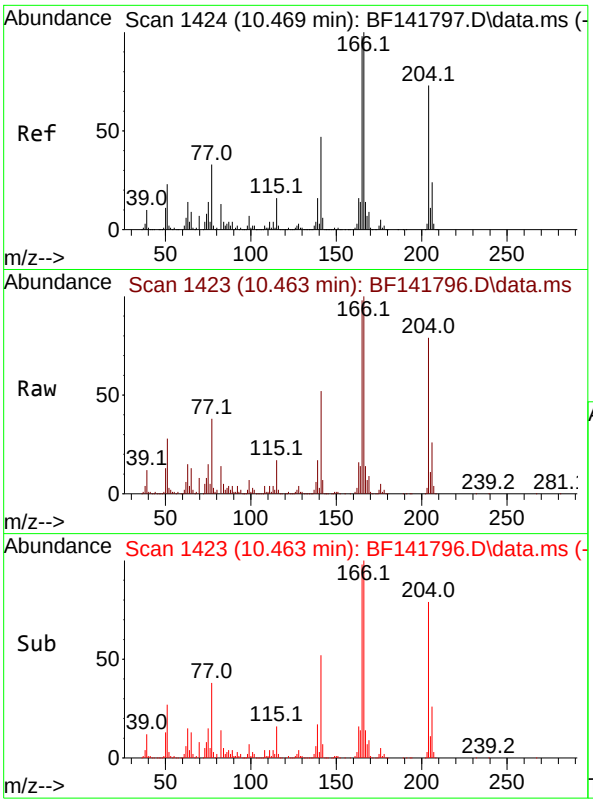


#60
Diethylphthalate
Concen: 21.264 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

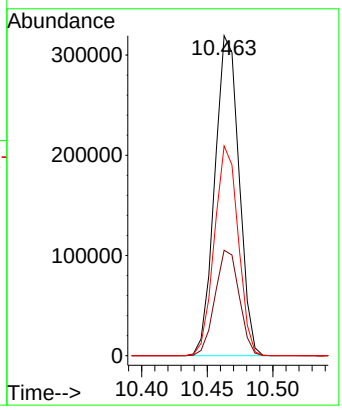




#61
4-Chlorophenyl-phenylether
Concen: 21.069 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:204 Resp: 40969

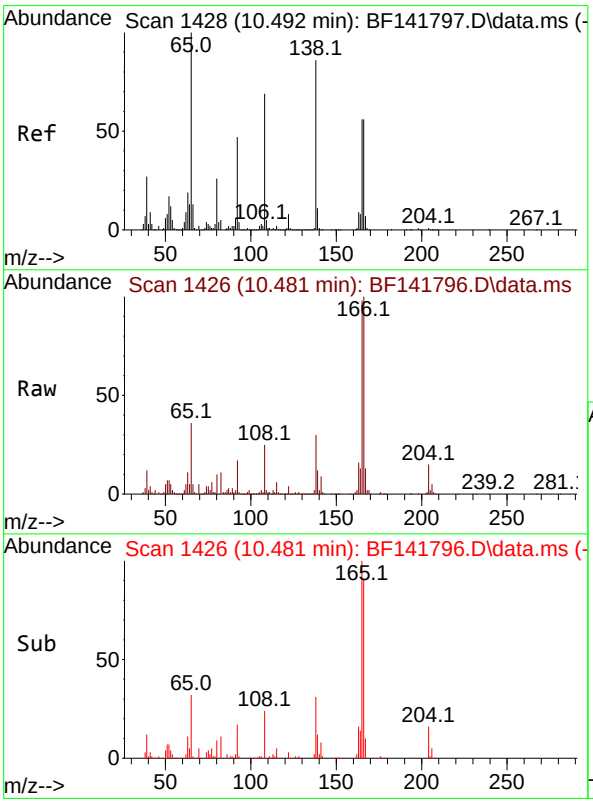
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	65.6	51.7	77.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

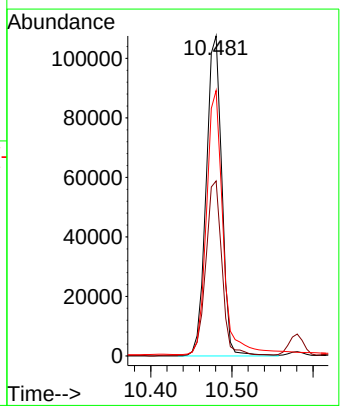
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

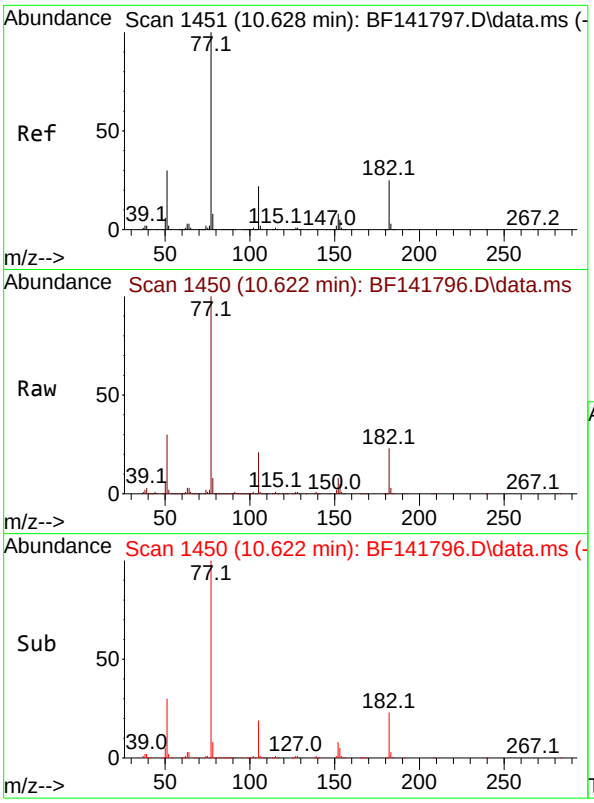


#62
4-Nitroaniline
Concen: 20.031 ng
RT: 10.481 min Scan# 1426
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

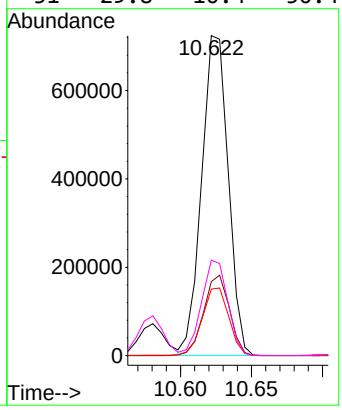




#63
Azobenzene
Concen: 21.288 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion: 77 Resp: 942499

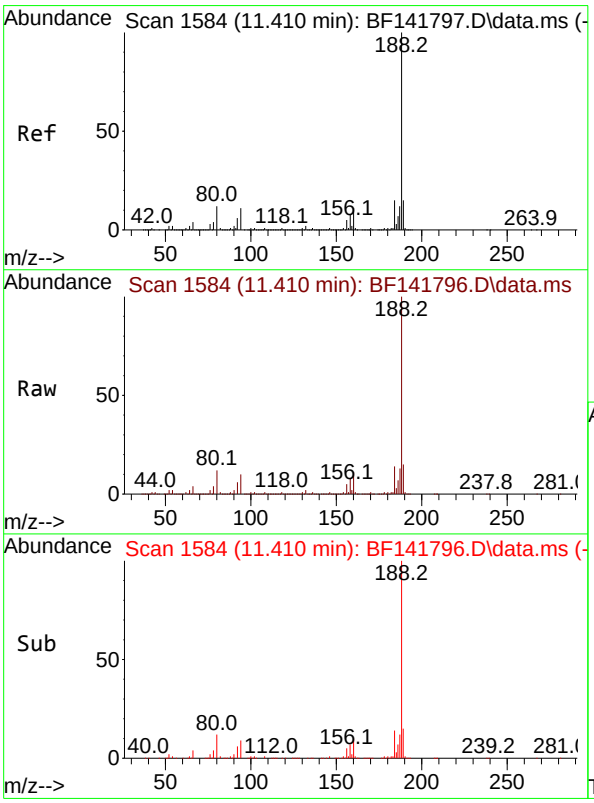
Ion	Ratio	Lower	Upper
77	100		
182	23.2	4.2	44.2
105	20.8	1.5	41.5
51	29.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

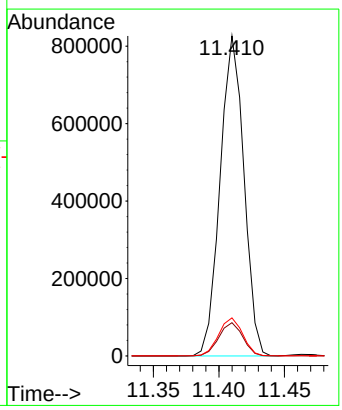
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

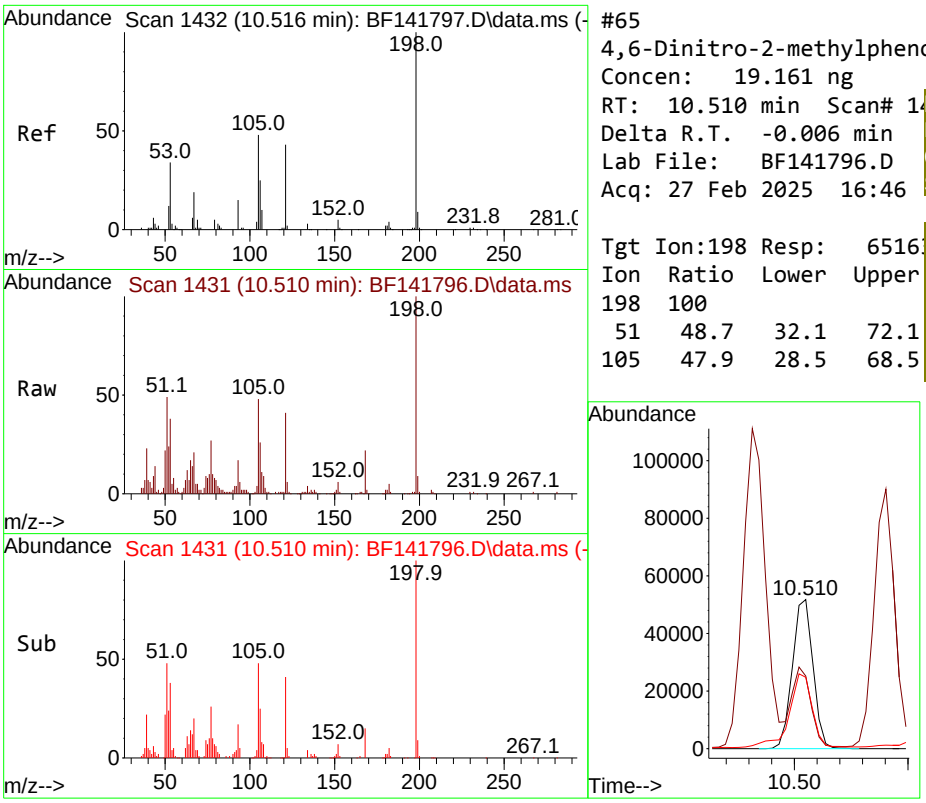


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

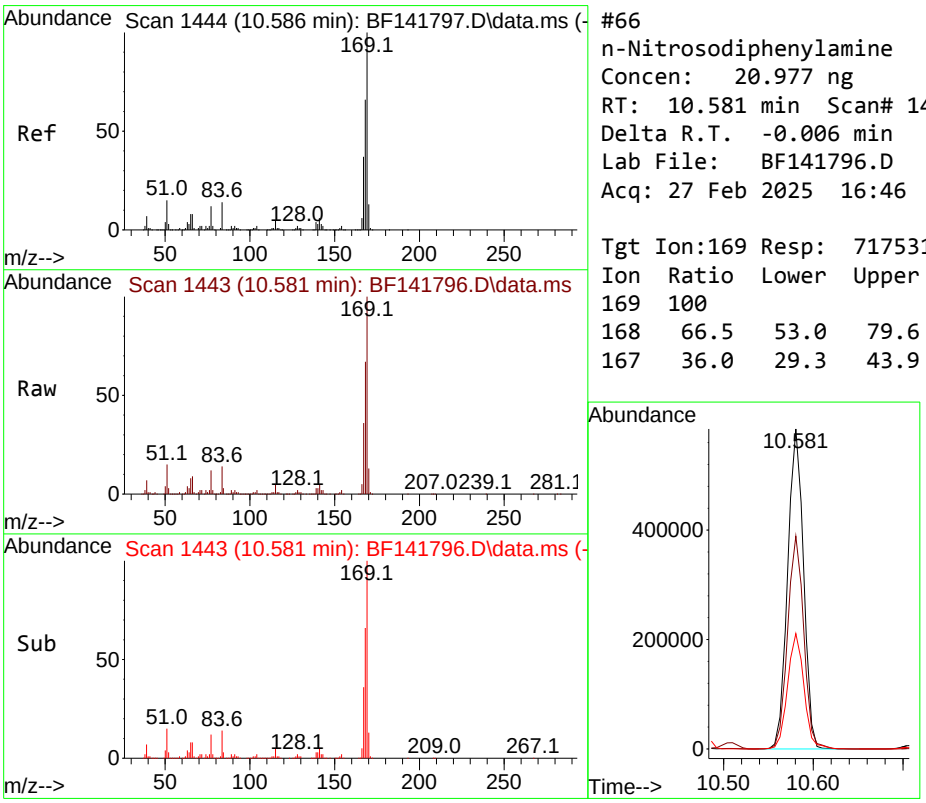
Tgt Ion:198 Resp: 6516

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

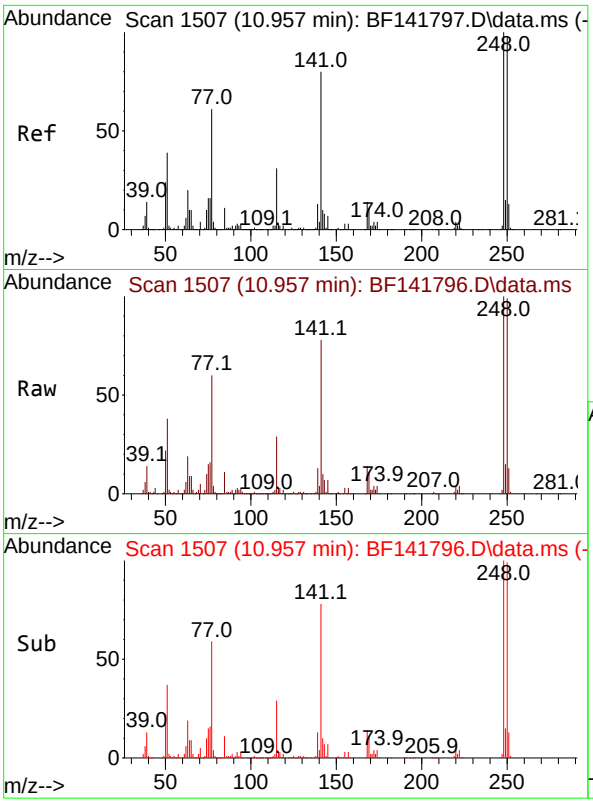
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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

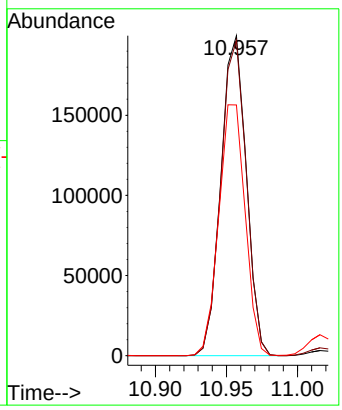
Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.6
167	36.0	29.3	43.9



#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

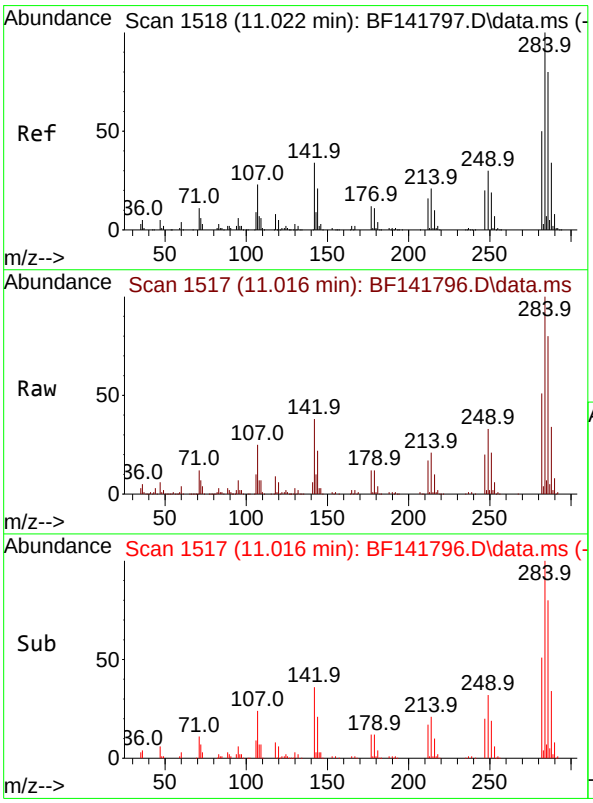
Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.1	117.1
141	78.3	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

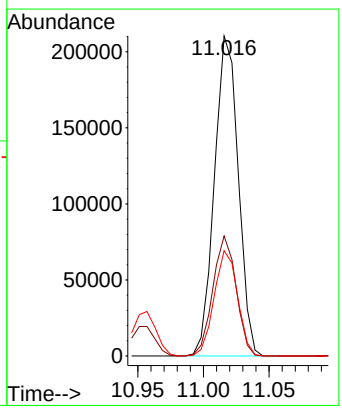
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

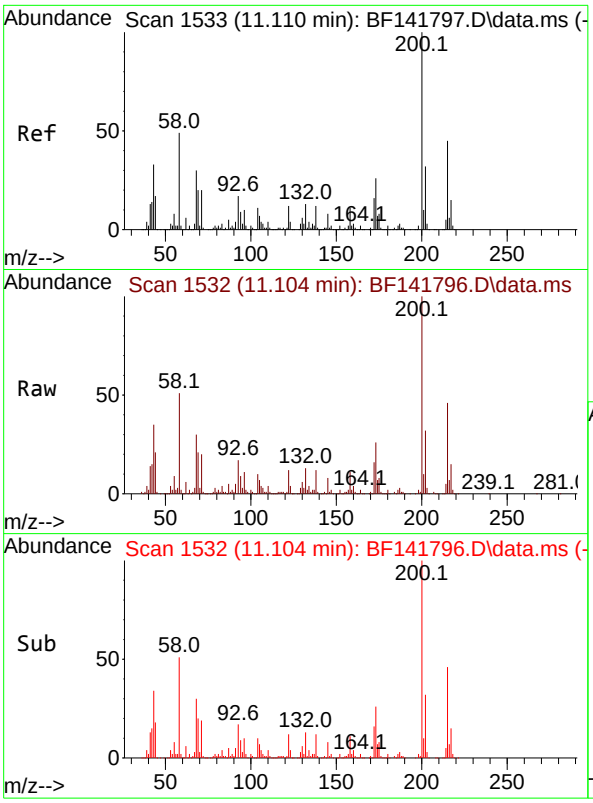


#68
Hexachlorobenzene
Concen: 20.653 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

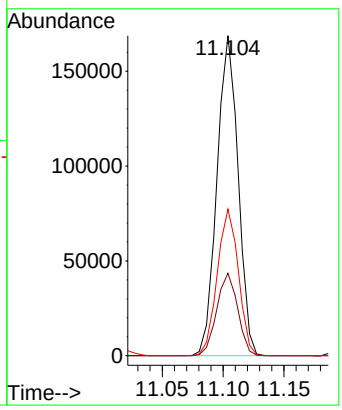




#69
Atrazine
Concen: 21.680 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:200 Resp: 20393

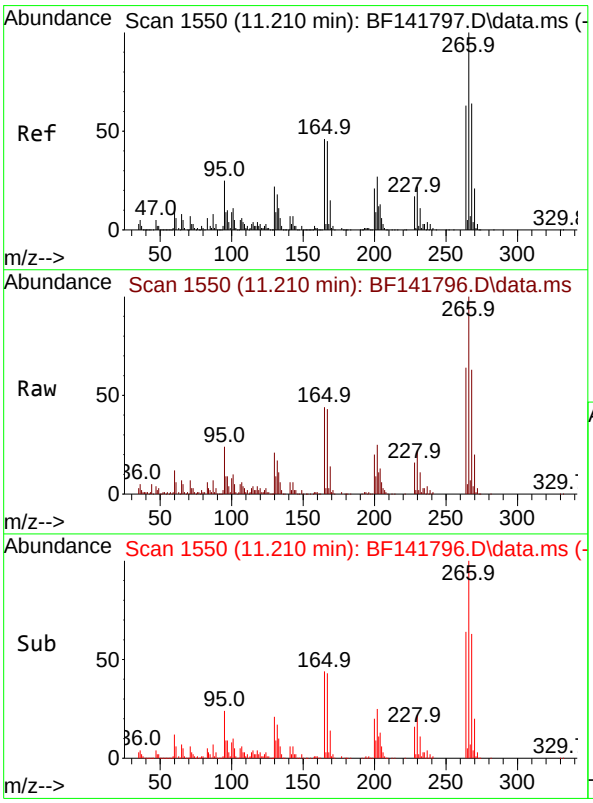
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.6	45.6
215	45.8	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

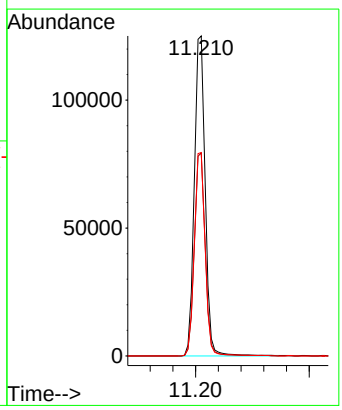
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

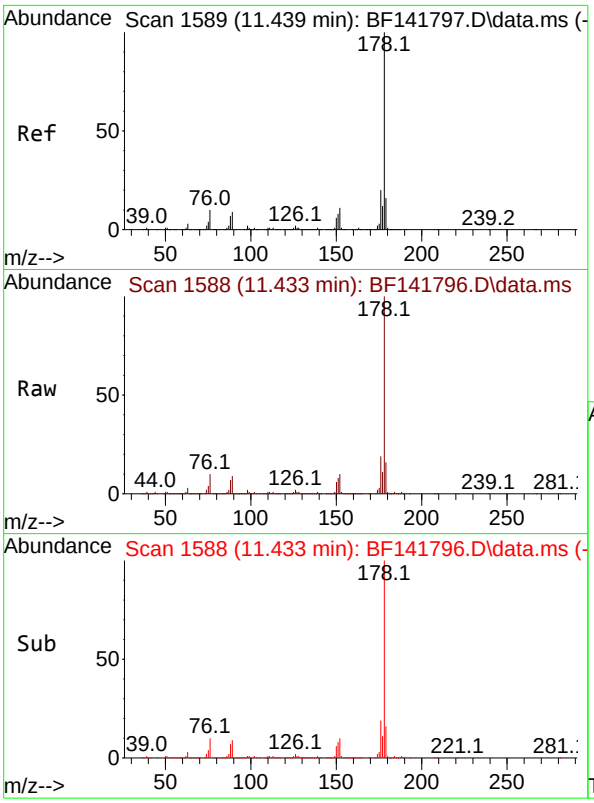


#70
Pentachlorophenol
Concen: 20.521 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

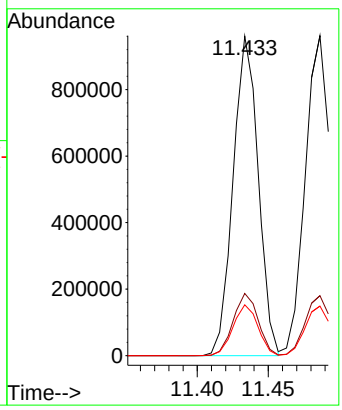




#71
Phenanthrene
Concen: 21.209 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:178 Resp: 118176

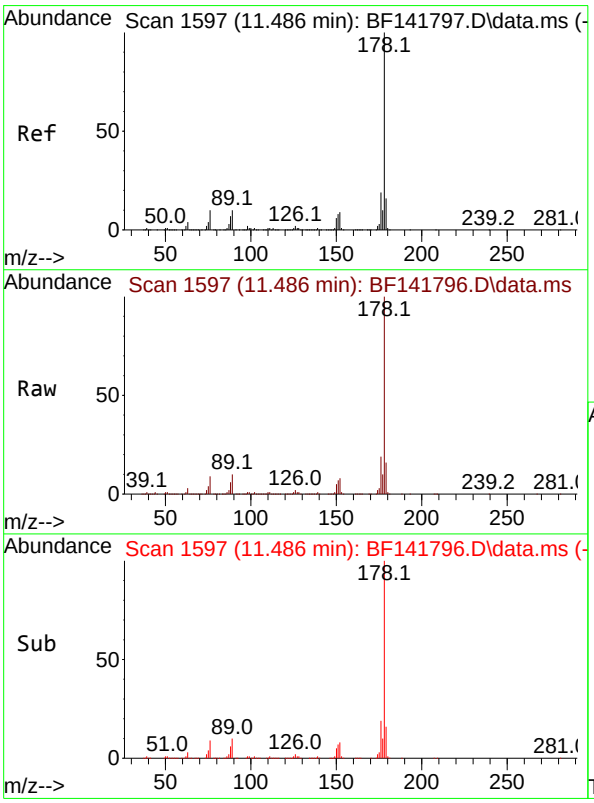
Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.0	24.0
179	15.9	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

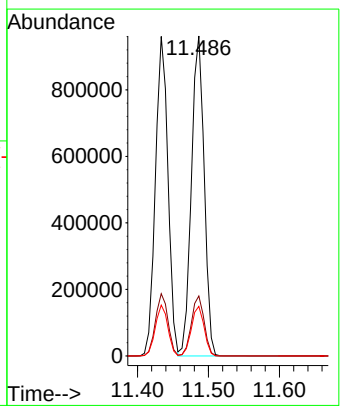
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

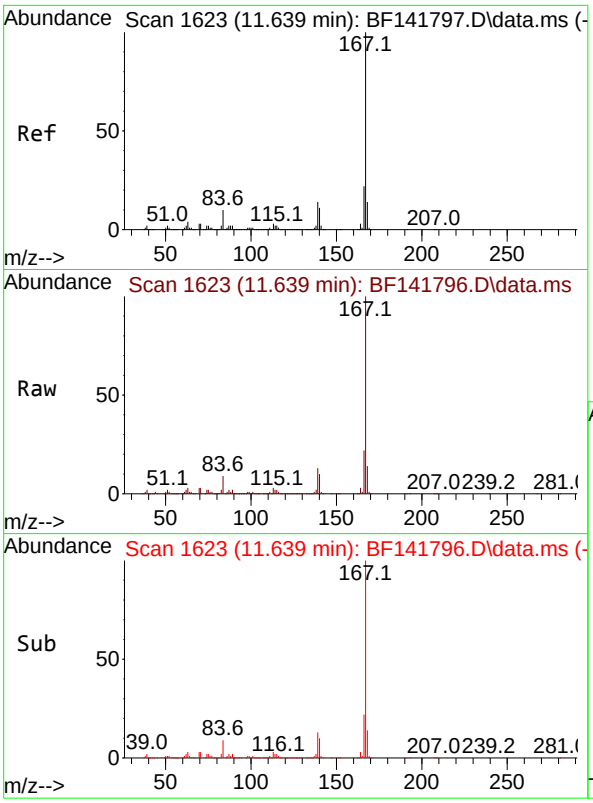


#72
Anthracene
Concen: 21.554 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

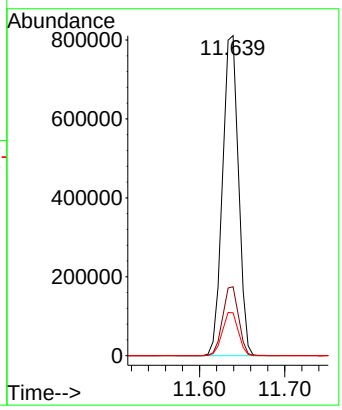




#73
Carbazole
Concen: 21.416 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:167 Resp: 105614

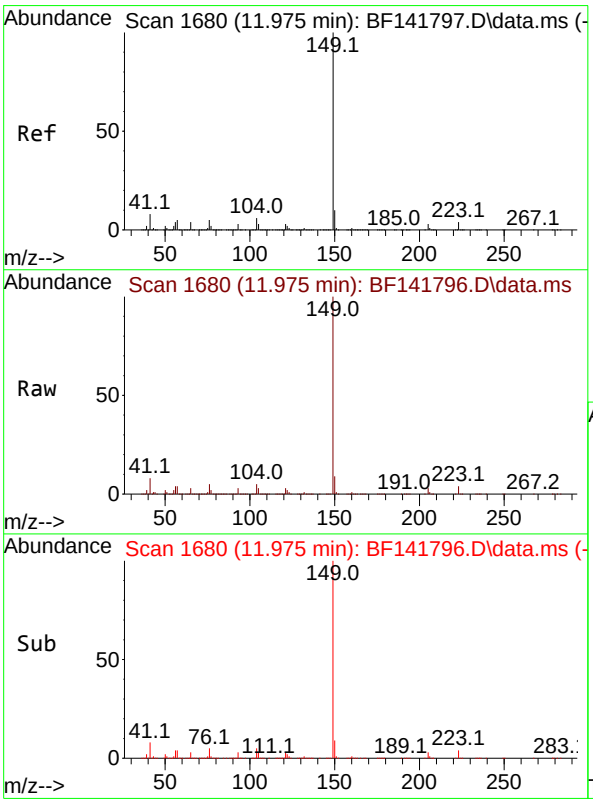
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.5	26.3
139	13.4	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

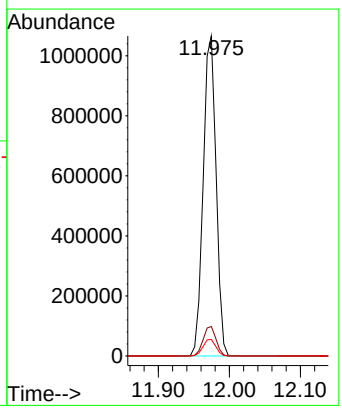
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

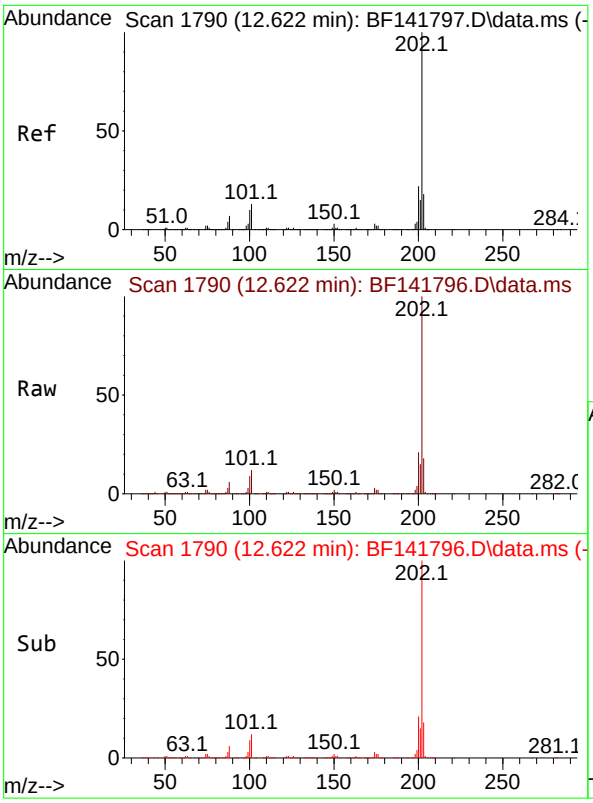


#74
Di-n-butylphthalate
Concen: 21.518 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

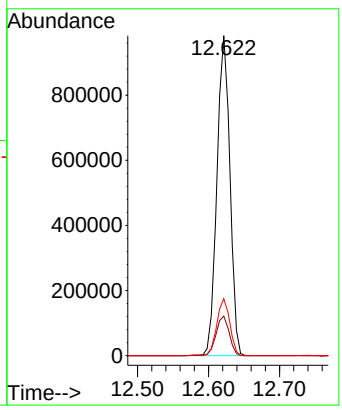




#75
Fluoranthene
Concen: 21.753 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:202 Resp: 124203

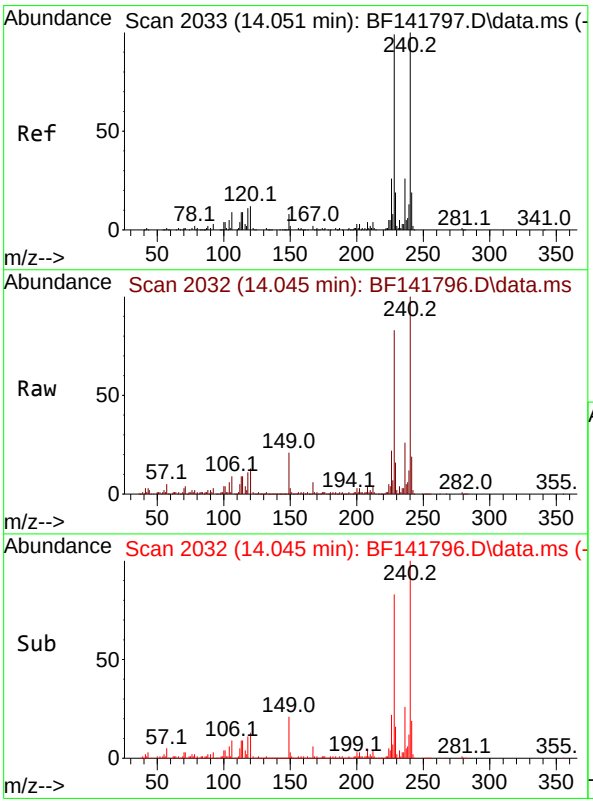
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	32.8
203	17.8	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

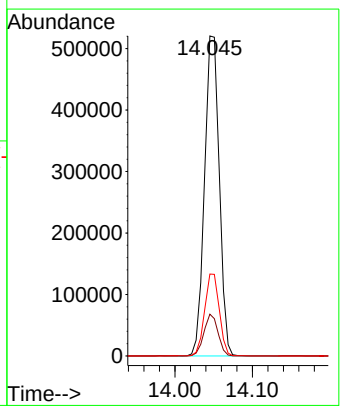
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

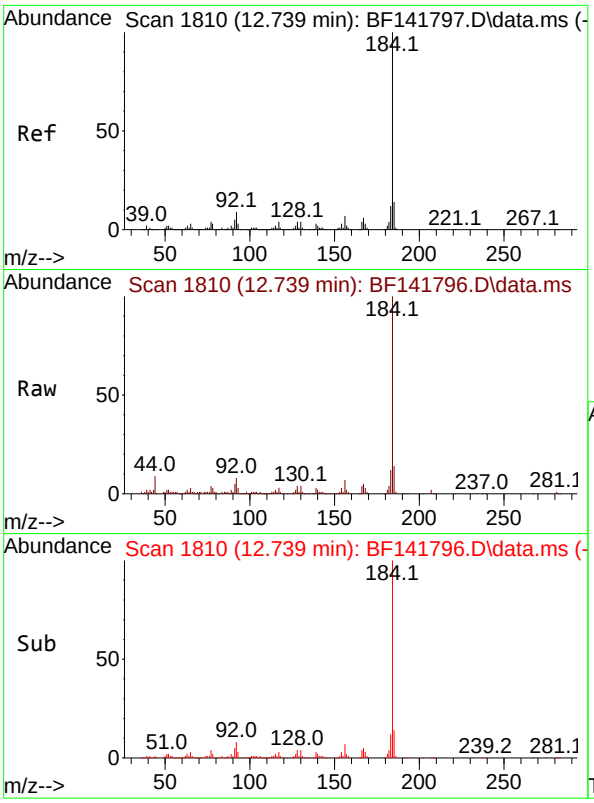


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

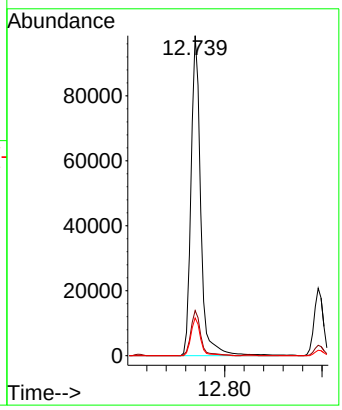




#77
Benzidine
Concen: 15.752 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:184 Resp: 13652

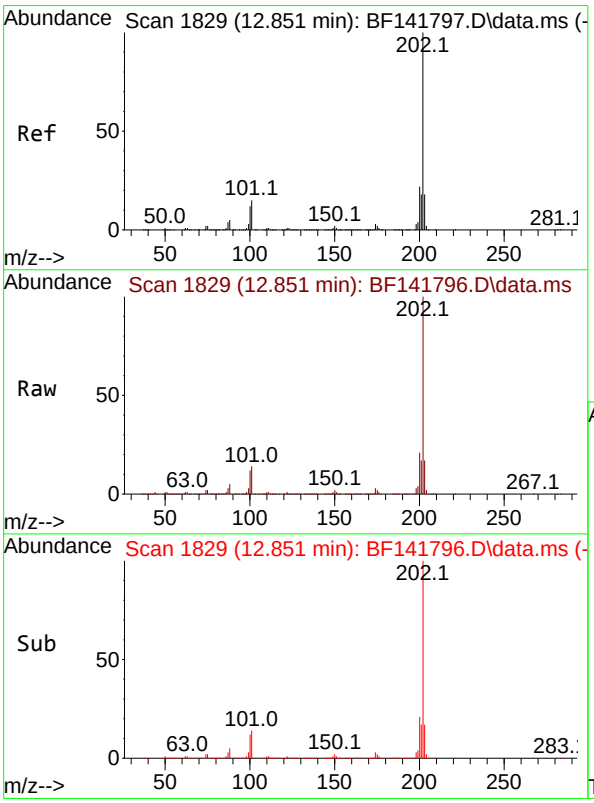
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.8	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

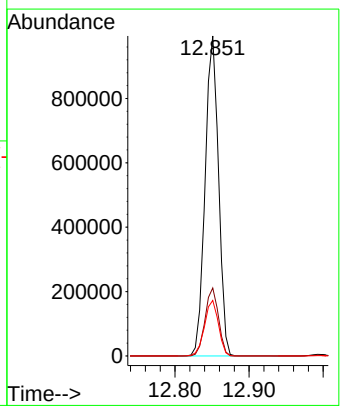
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

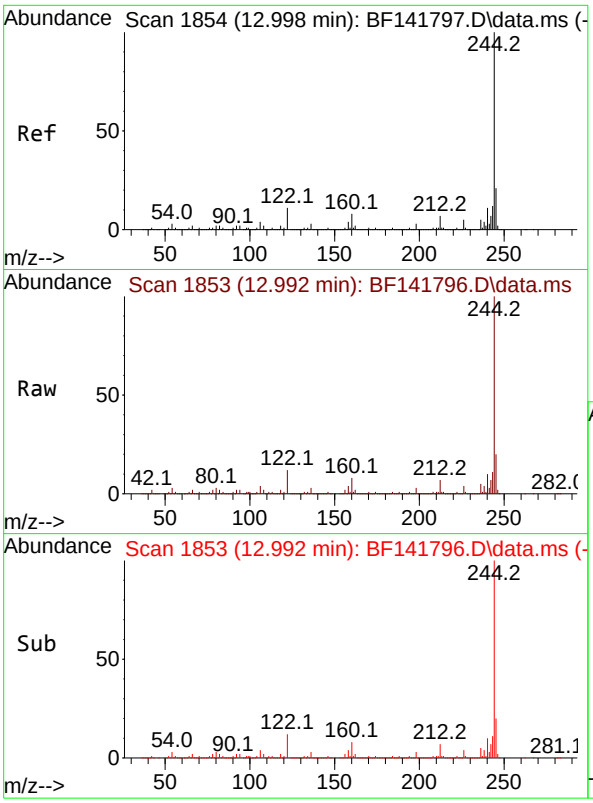


#78
Pyrene
Concen: 20.957 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

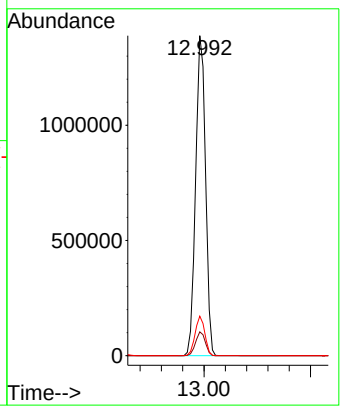




#79
Terphenyl-d14
Concen: 41.959 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:244 Resp: 178580

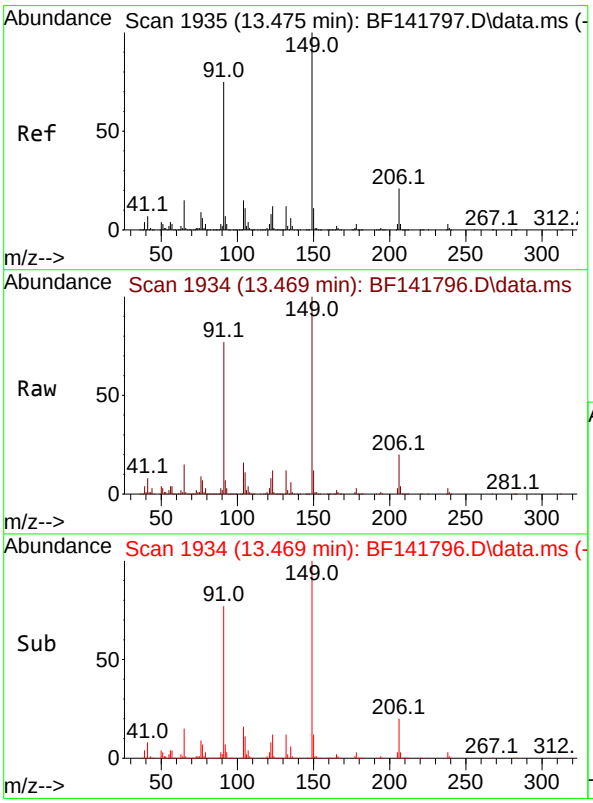
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	12.4	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

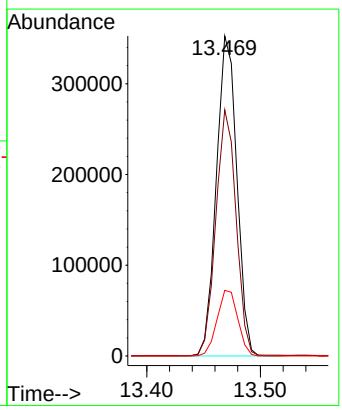
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

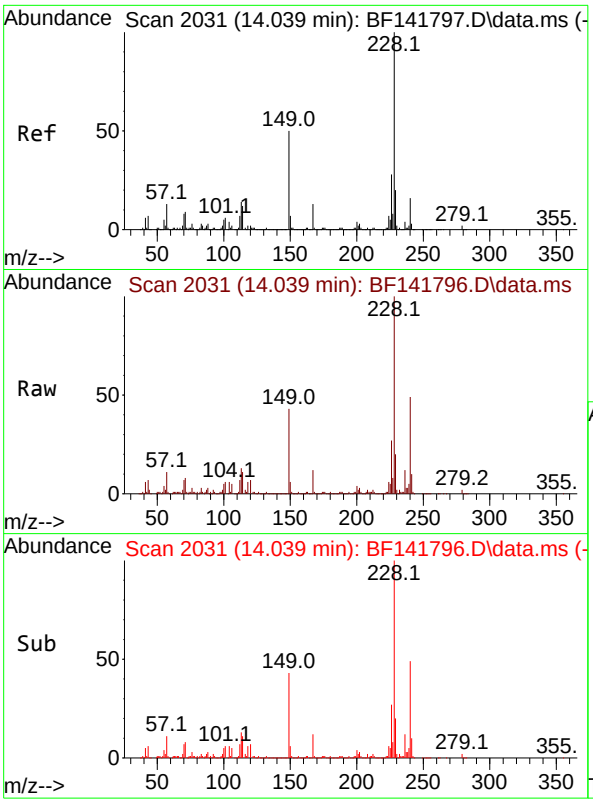


#80
Butylbenzylphthalate
Concen: 20.434 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

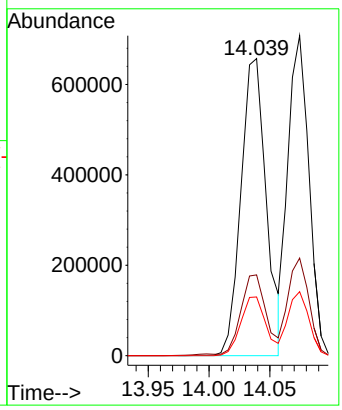




#81
Benzo(a)anthracene
Concen: 20.956 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 95314

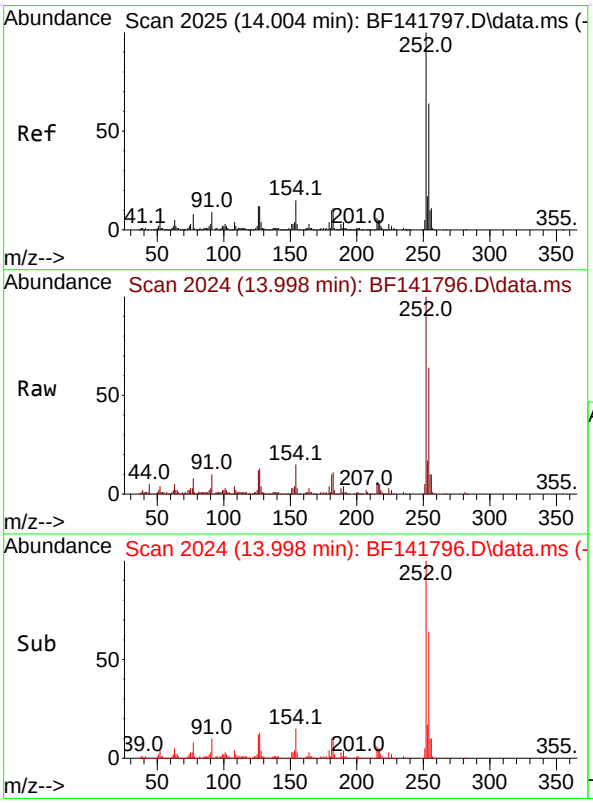
Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.1	33.1
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

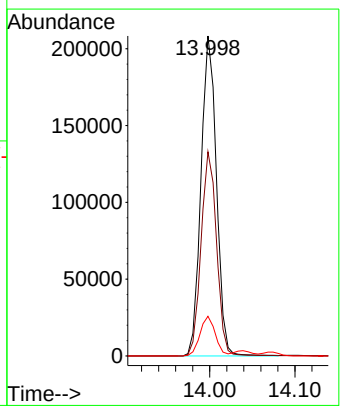
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

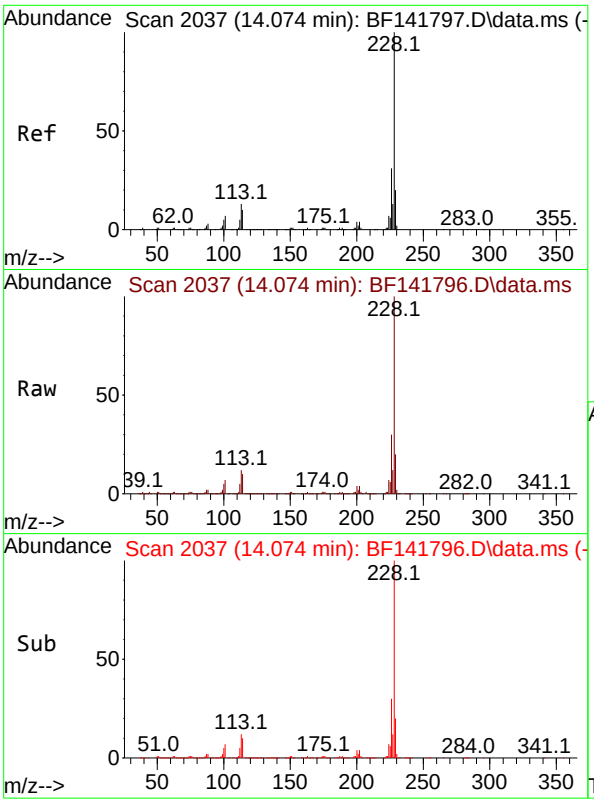


#82
3,3'-Dichlorobenzidine
Concen: 20.132 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

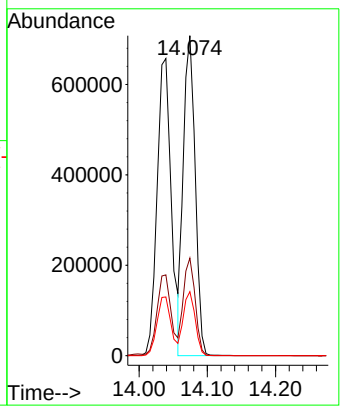




#83
Chrysene
Concen: 20.288 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:228 Resp: 85064

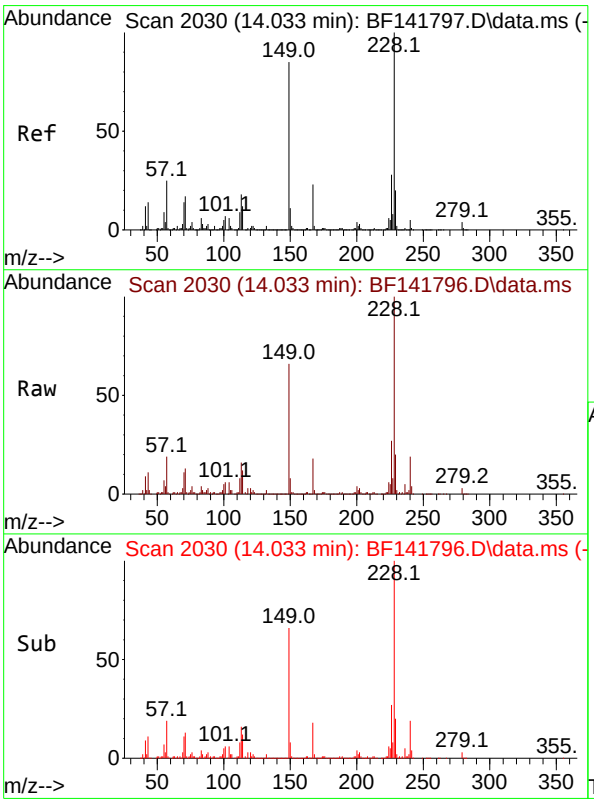
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

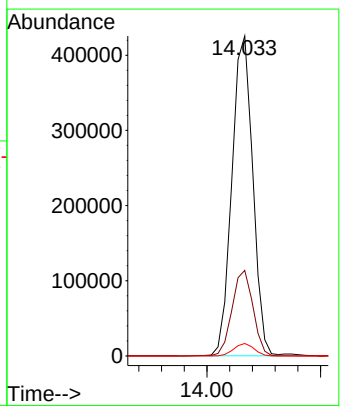
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

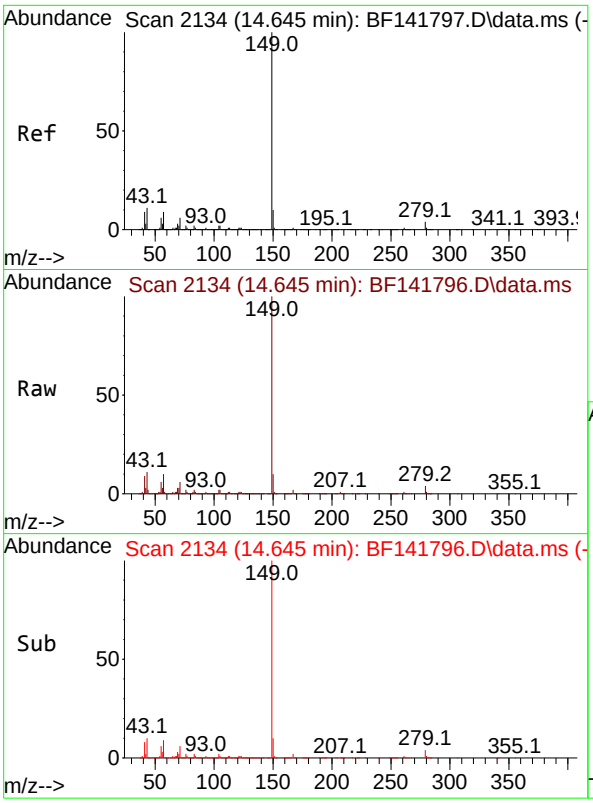


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.122 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

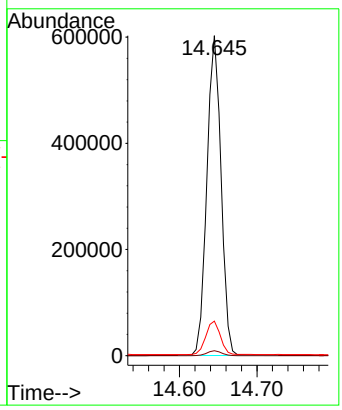




#85
Di-n-octyl phthalate
Concen: 18.910 ng
RT: 14.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:149 Resp: 76368

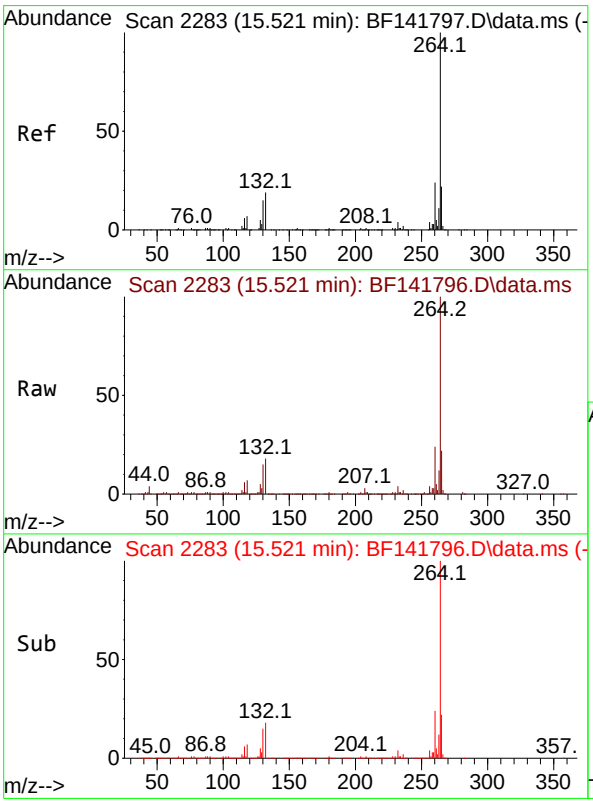
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.7	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

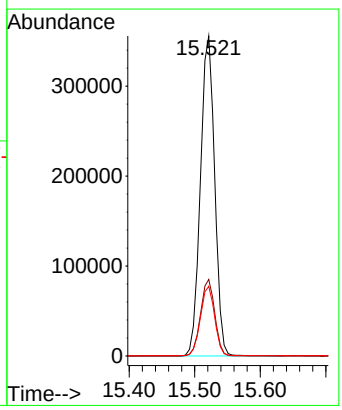
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

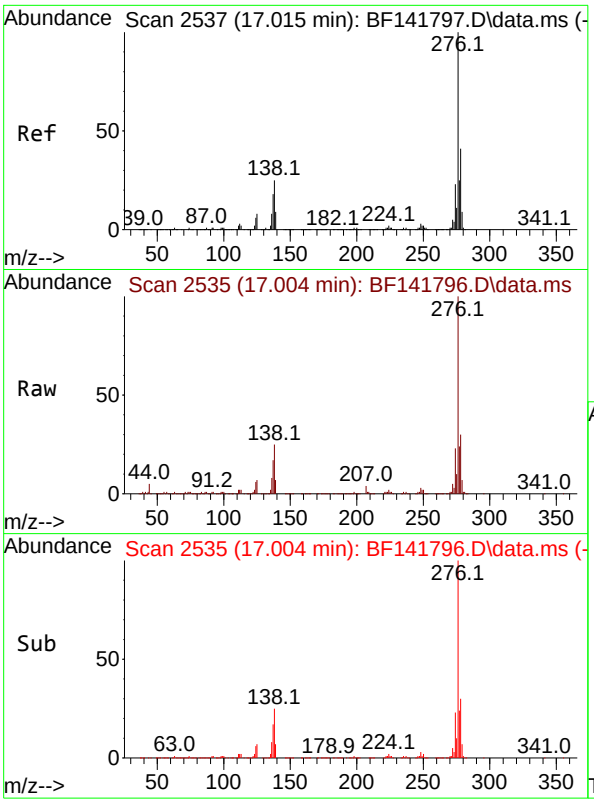


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

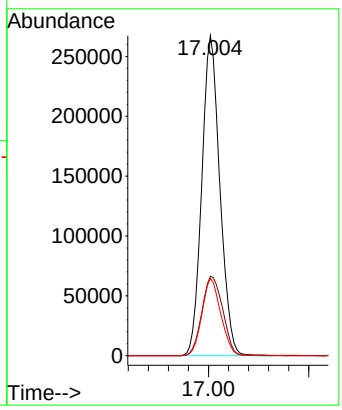




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.480 ng
RT: 17.004 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:276 Resp: 66877

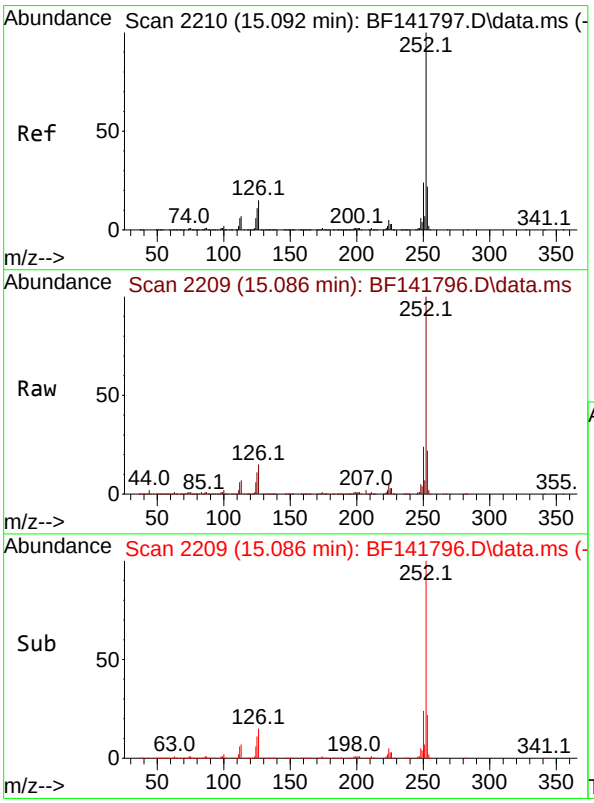
Ion	Ratio	Lower	Upper
276	100		
138	28.5	22.5	33.7
277	25.1	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

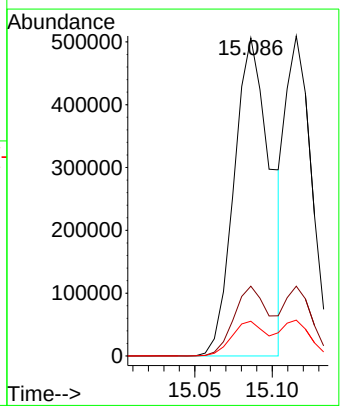
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

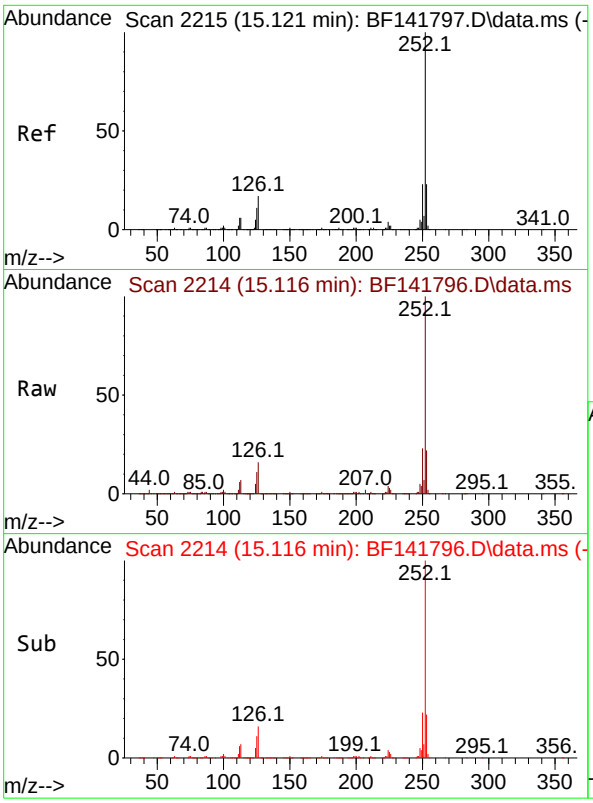


#88
Benzo(b)fluoranthene
Concen: 22.501 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

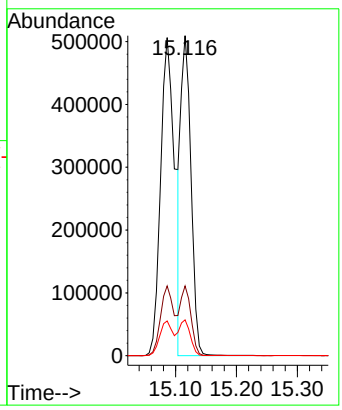




#89
Benzo(k)fluoranthene
Concen: 18.973 ng
RT: 15.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:252 Resp: 59225

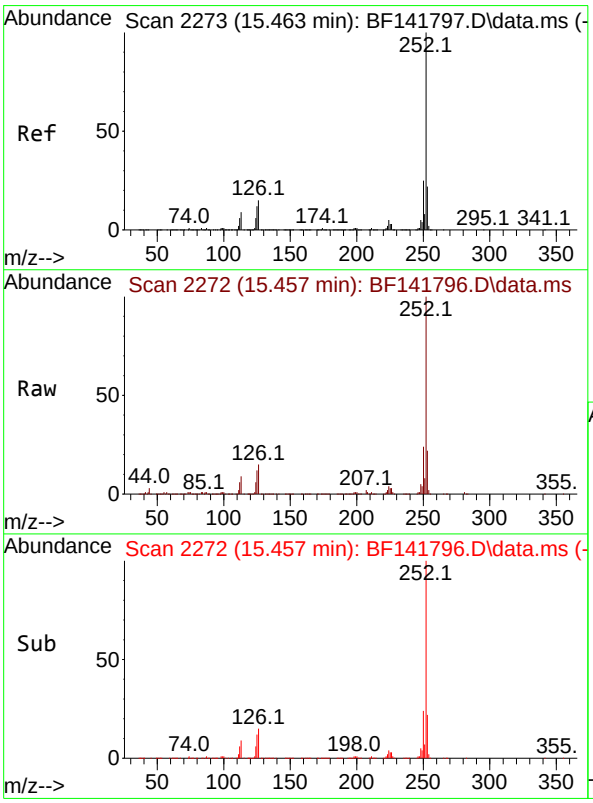
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.8
125	11.2	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

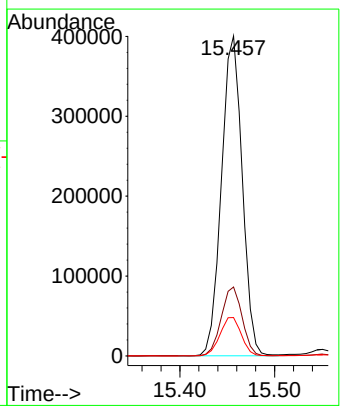
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

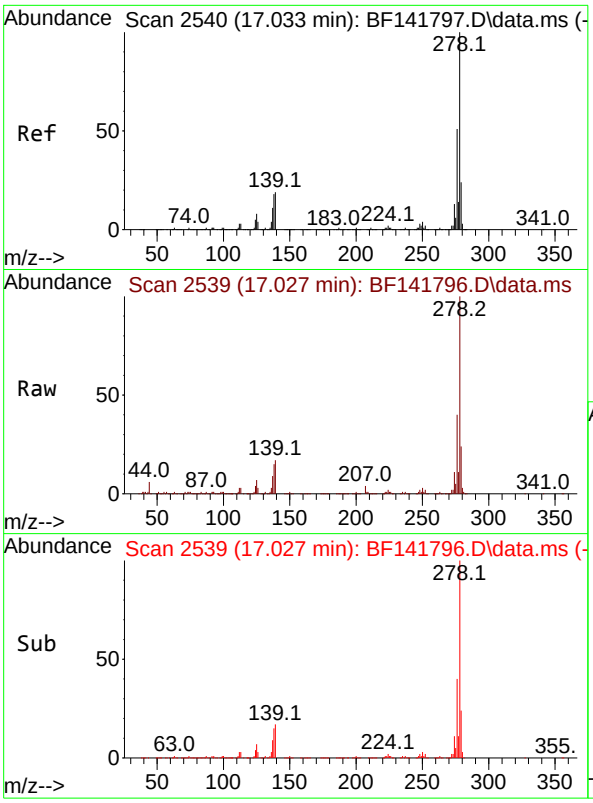


#90
Benzo(a)pyrene
Concen: 20.740 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

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

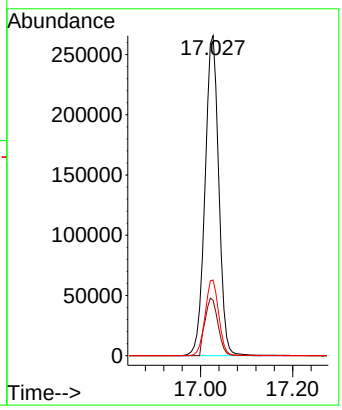




#91
Dibenzo(a,h)anthracene
Concen: 19.724 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141796.D
Acq: 27 Feb 2025 16:46

Tgt Ion:278 Resp: 55272

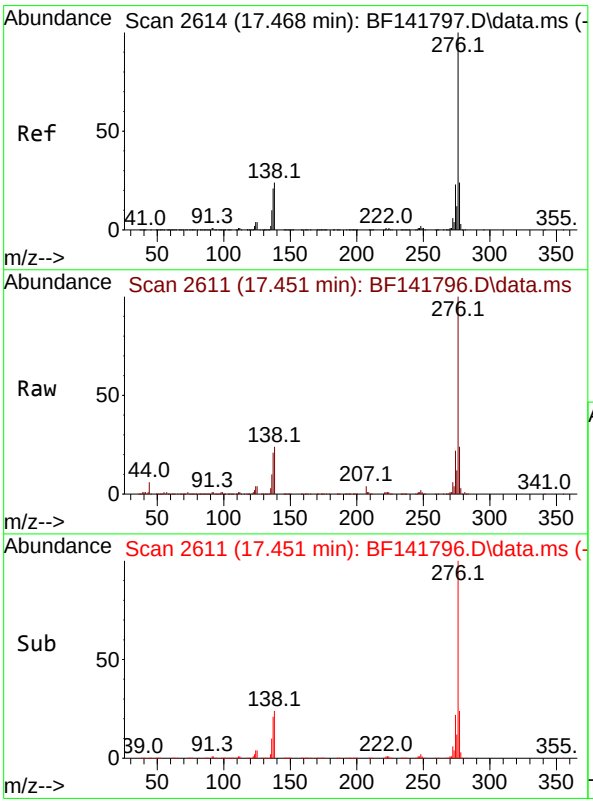
Ion	Ratio	Lower	Upper
278	100		
139	17.3	14.9	22.3
279	23.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

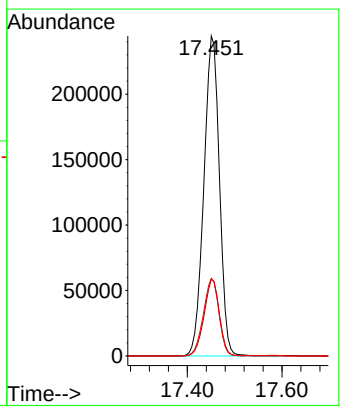
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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



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)
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

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

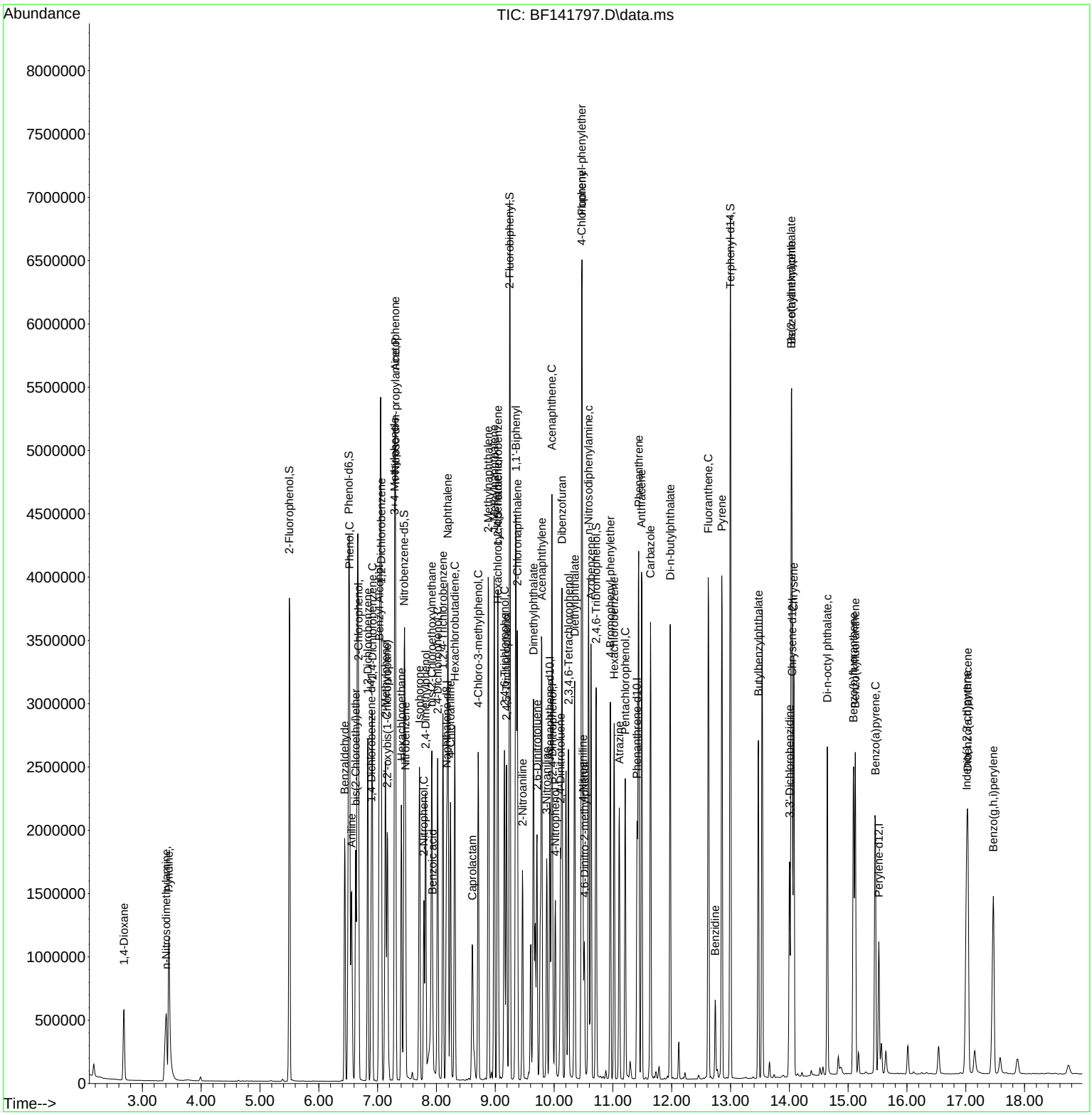
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141797.D
Acq On : 27 Feb 2025 17:16
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

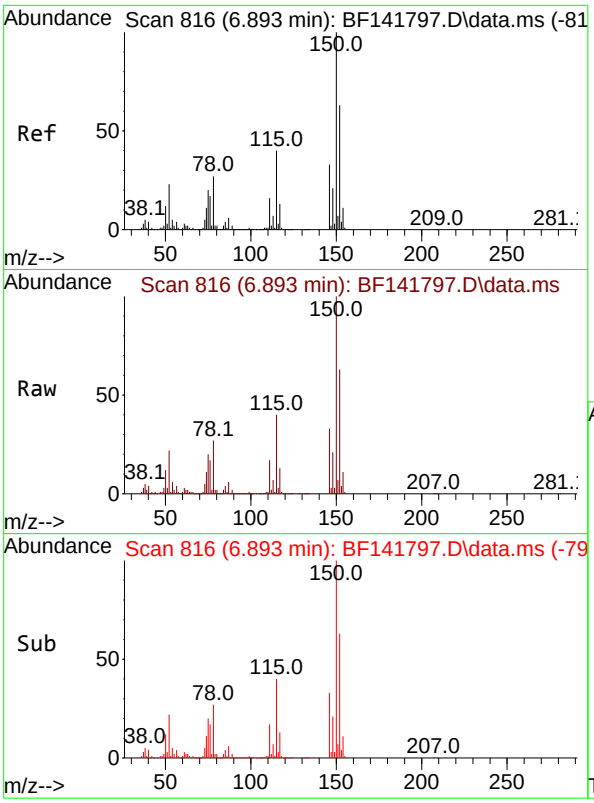
Quant Time: Feb 28 01:25:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

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

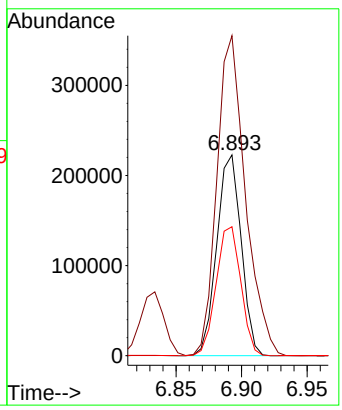




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:152 Resp: 28806

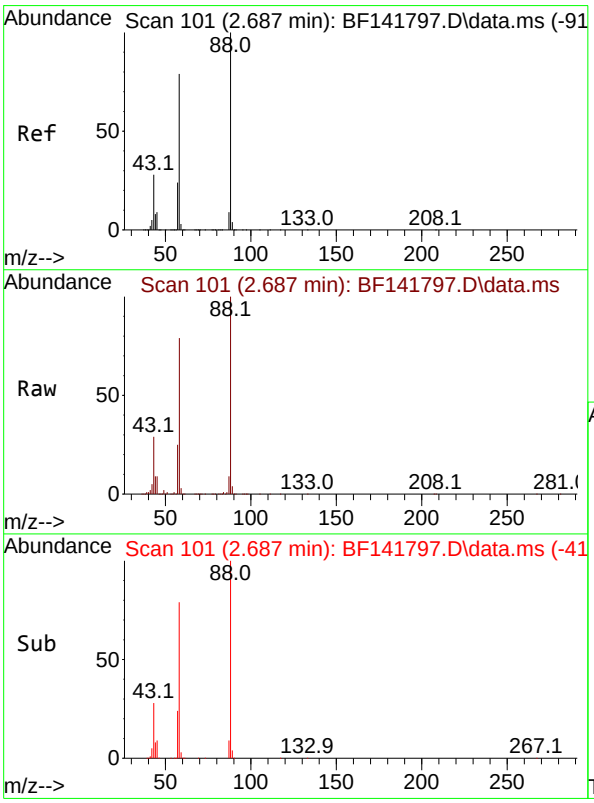
Ion	Ratio	Lower	Upper
152	100		
150	159.4	127.5	191.3
115	64.3	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

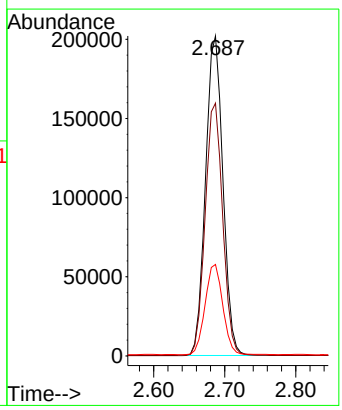
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

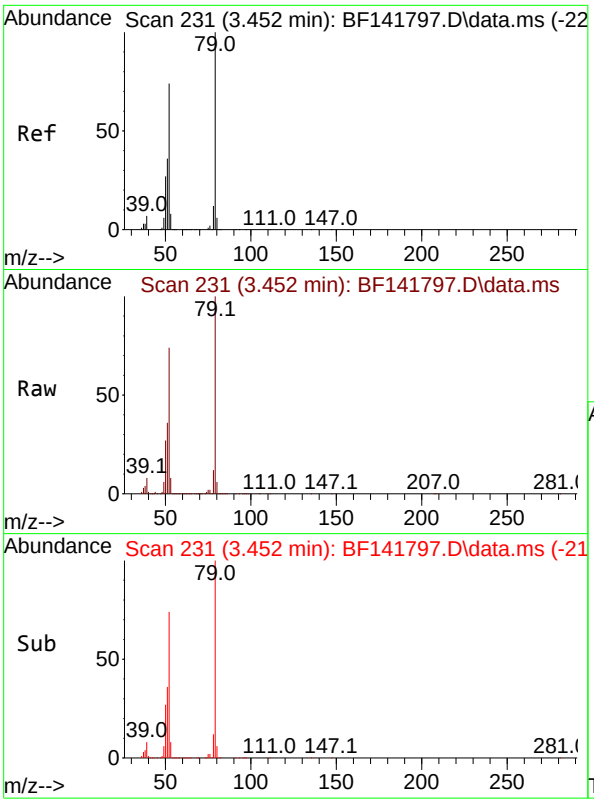


#2
1,4-Dioxane
Concen: 41.944 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

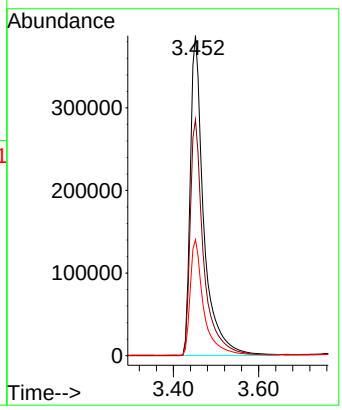
Tgt Ion: 79 Resp: 85049

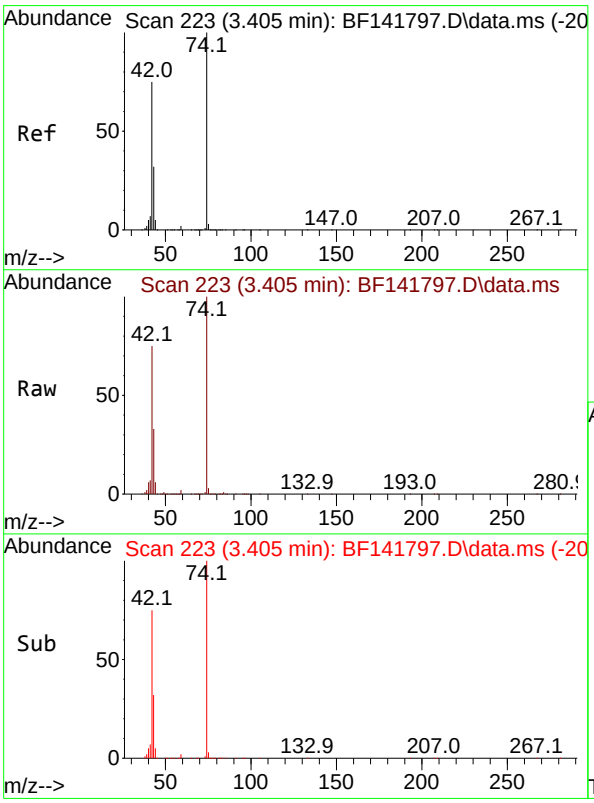
Ion	Ratio	Lower	Upper
79	100		
52	73.7	59.0	88.4
51	36.2	29.0	43.4

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

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

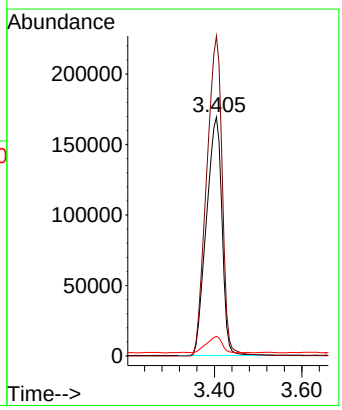


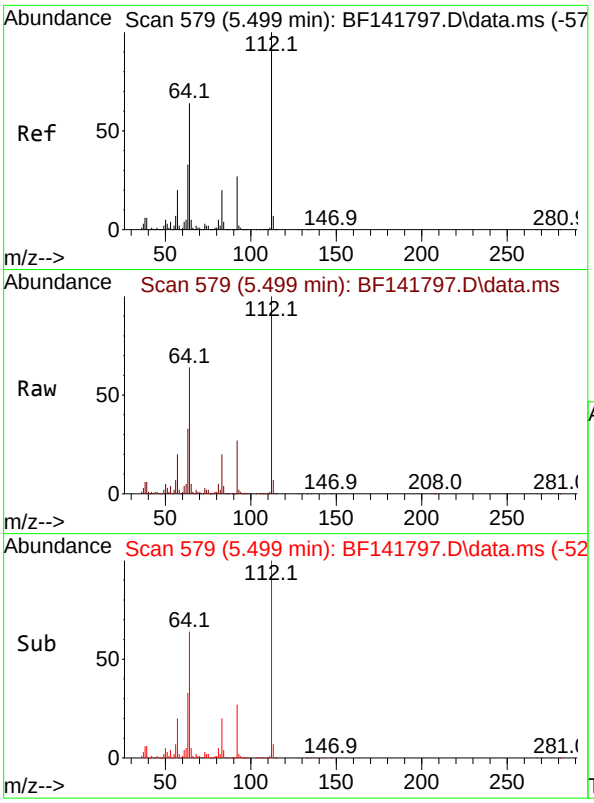


#4
n-Nitrosodimethylamine
Concen: 42.911 ng
RT: 3.405 min Scan# 223
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

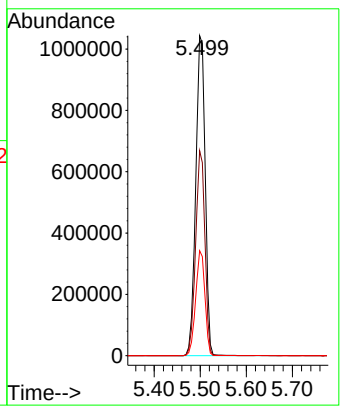




#5
2-Fluorophenol
Concen: 82.144 ng
RT: 5.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:112 Resp: 148171(

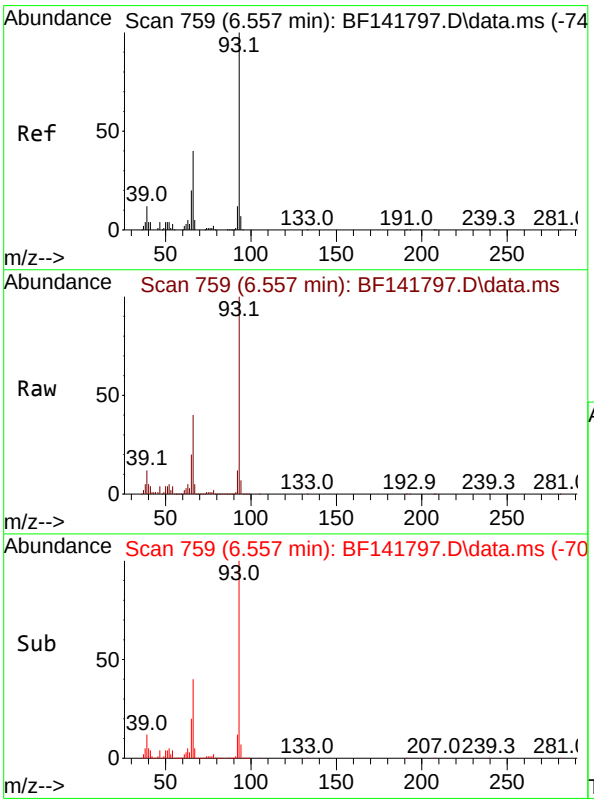
Ion	Ratio	Lower	Upper
112	100		
64	64.1	51.3	76.9
63	32.8	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

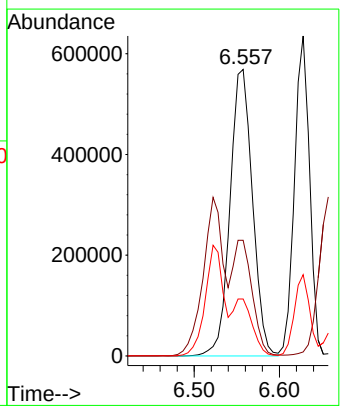
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

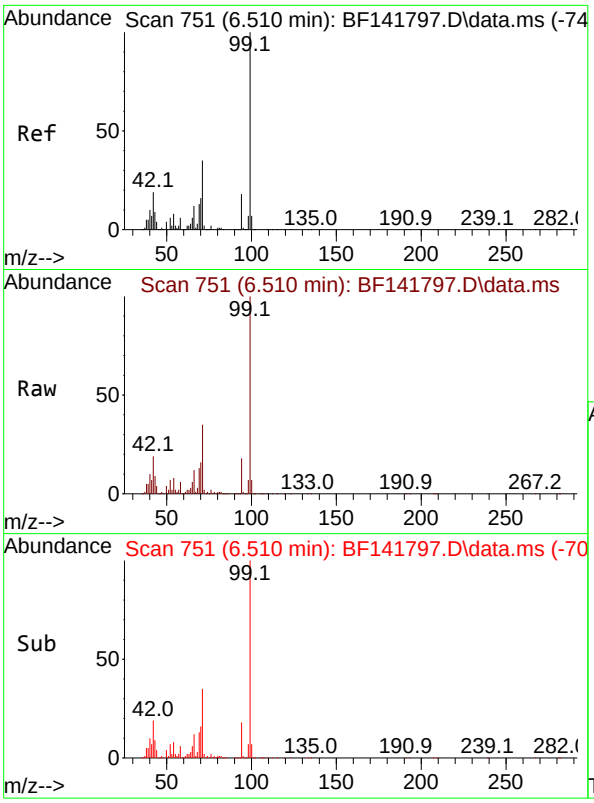


#6
Aniline
Concen: 42.941 ng
RT: 6.557 min Scan# 759
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

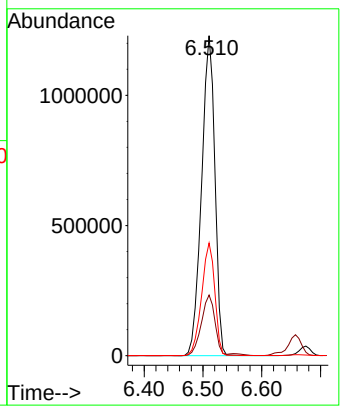




#7
Phenol-d6
Concen: 82.660 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 99 Resp: 194070

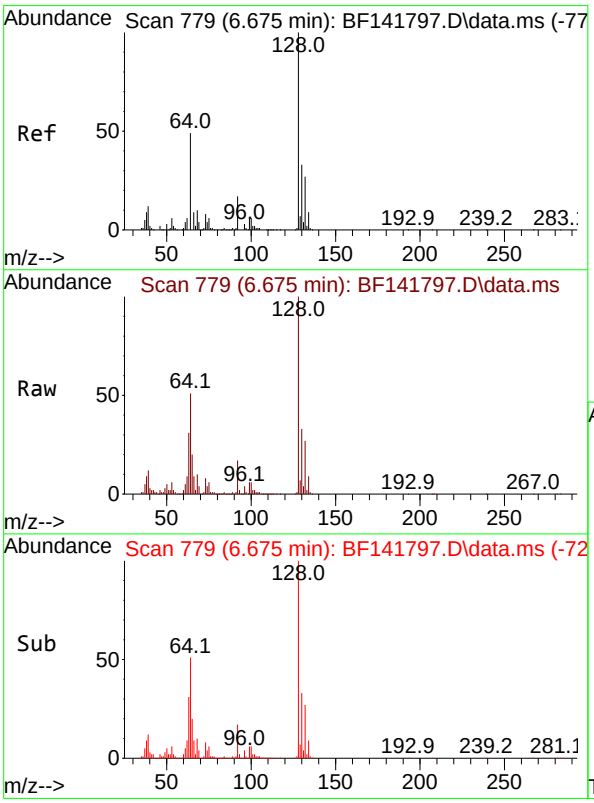
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.2	22.8
71	35.2	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

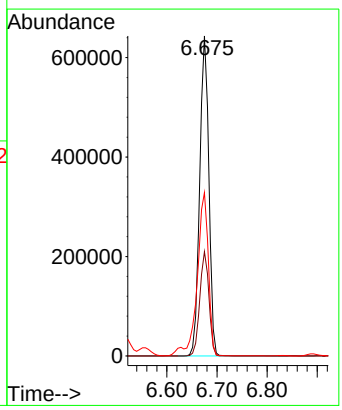
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

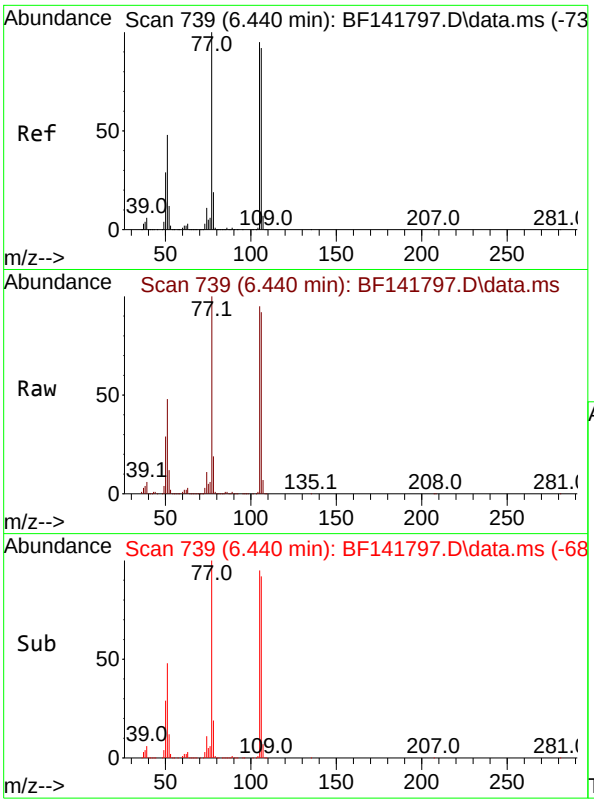


#8
2-Chlorophenol
Concen: 41.681 ng
RT: 6.675 min Scan# 779
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

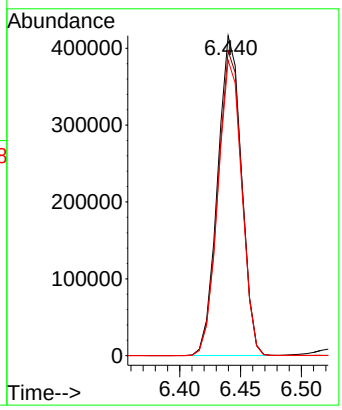




#9
Benzaldehyde
Concen: 41.423 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 56569

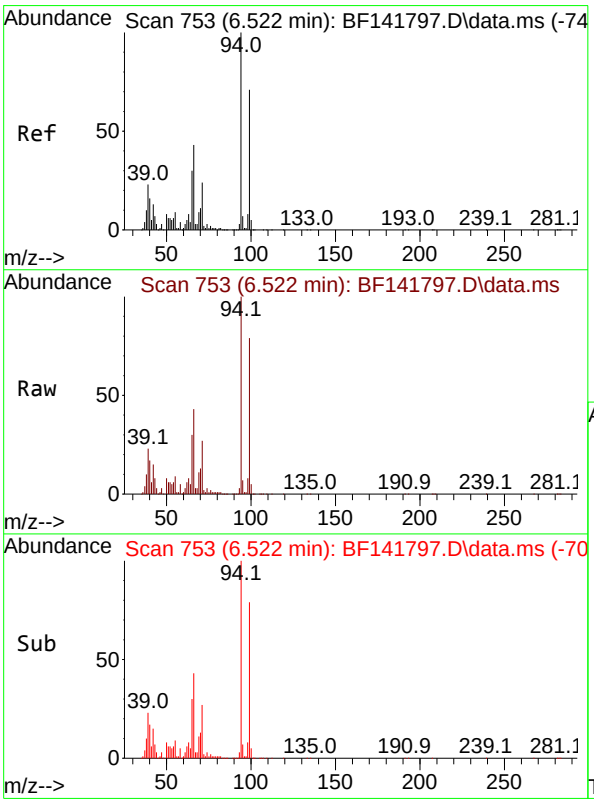
Ion	Ratio	Lower	Upper
77	100		
105	95.3	75.3	115.3
106	92.3	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

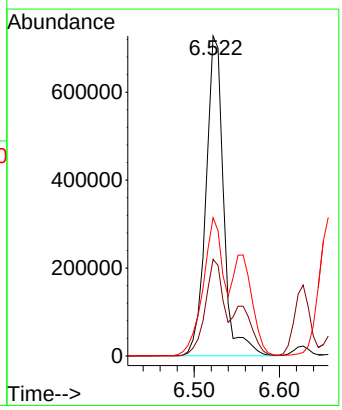
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

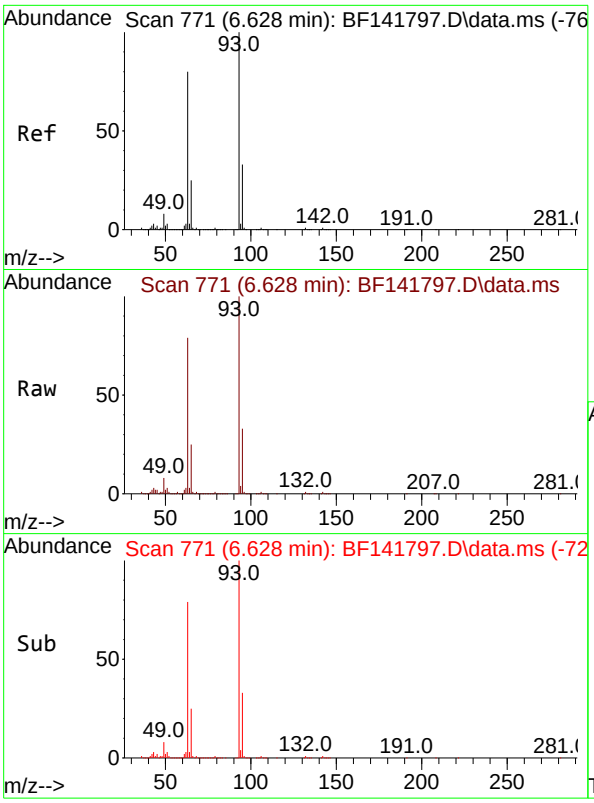


#10
Phenol
Concen: 41.904 ng
RT: 6.522 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

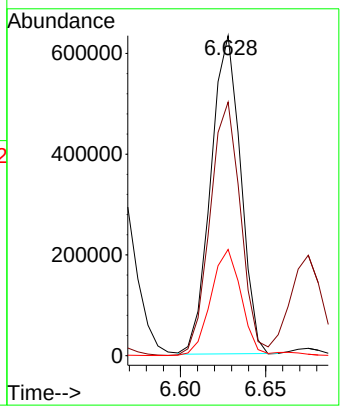




#11
bis(2-Chloroethyl)ether
Concen: 40.349 ng
RT: 6.628 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 93 Resp: 77164

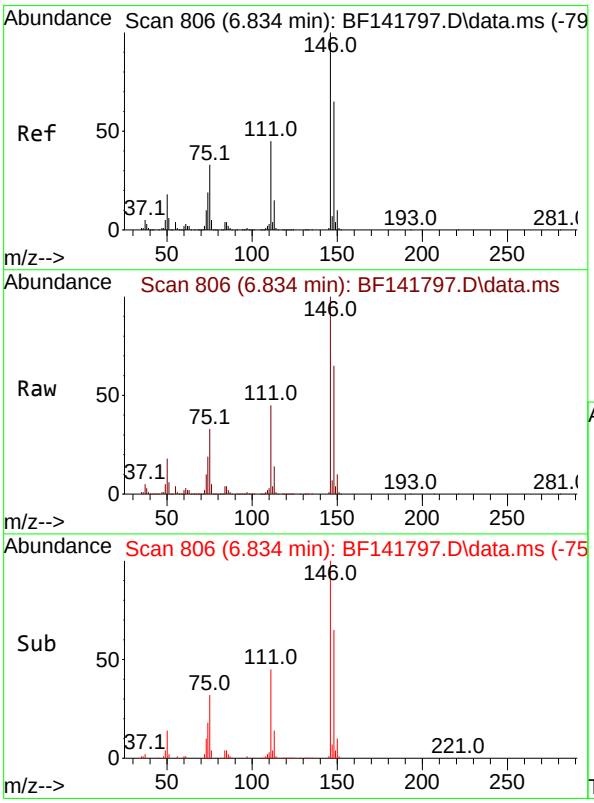
Ion	Ratio	Lower	Upper
93	100		
63	79.3	59.3	99.3
95	33.2	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

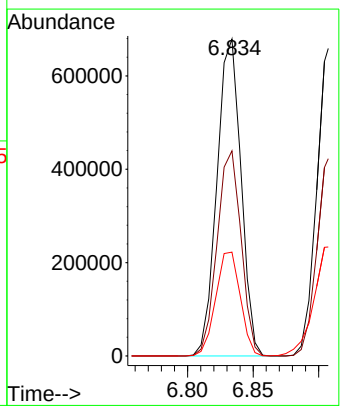
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

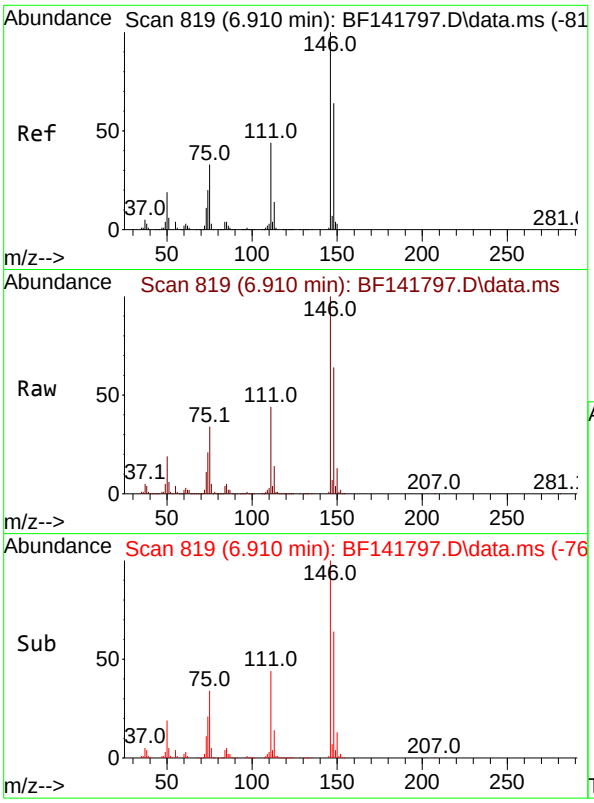


#12
1,3-Dichlorobenzene
Concen: 41.465 ng
RT: 6.834 min Scan# 806
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

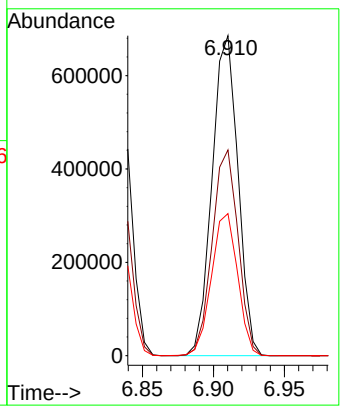




#13
1,4-Dichlorobenzene
Concen: 41.384 ng
RT: 6.910 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:146 Resp: 87135

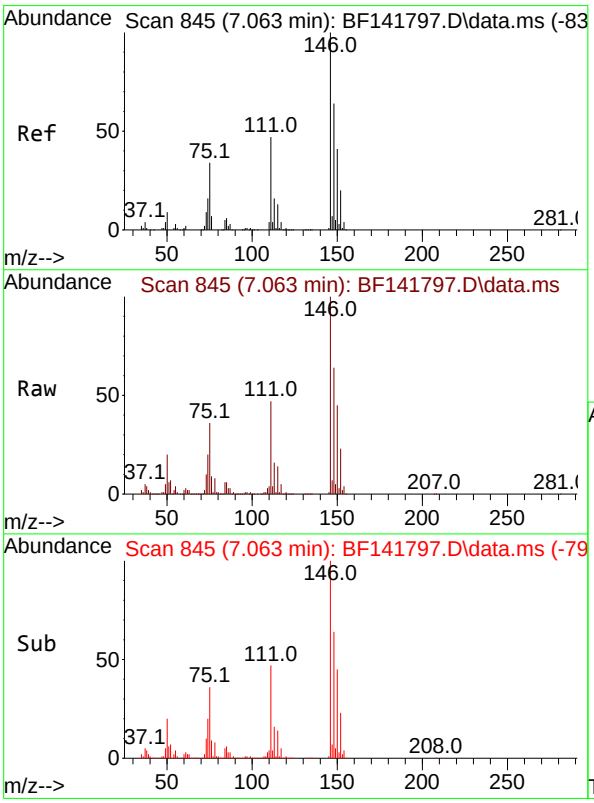
Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
111	44.4	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

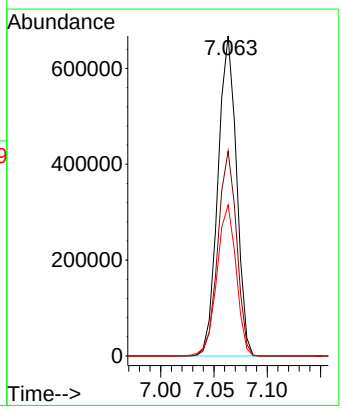
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

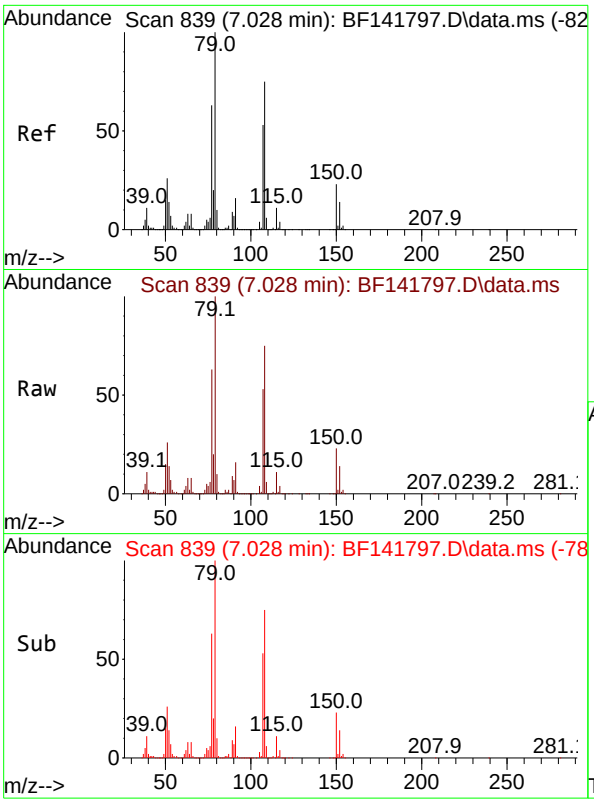


#14
1,2-Dichlorobenzene
Concen: 41.065 ng
RT: 7.063 min Scan# 845
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

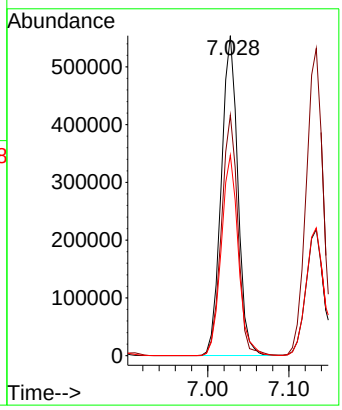




#15
Benzyl Alcohol
Concen: 41.957 ng
RT: 7.028 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 79 Resp: 78726

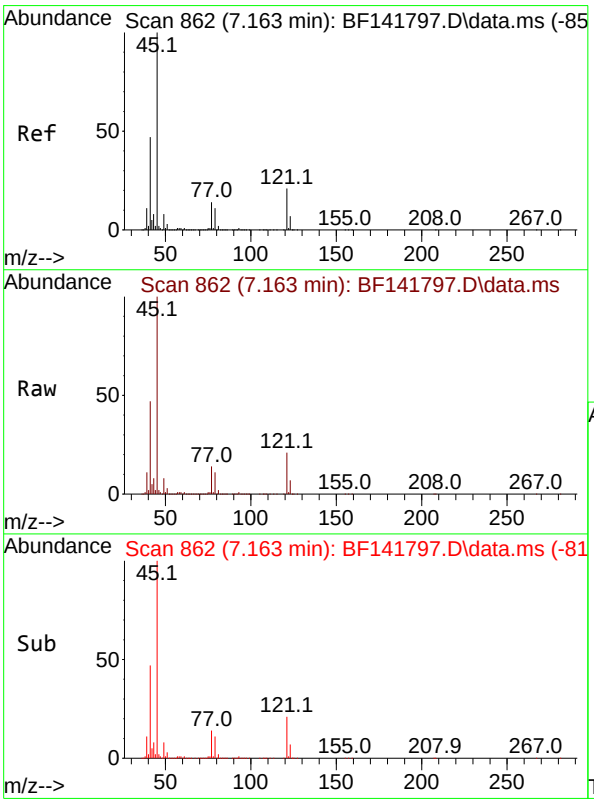
Ion	Ratio	Lower	Upper
79	100		
108	75.2	60.2	90.2
77	62.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

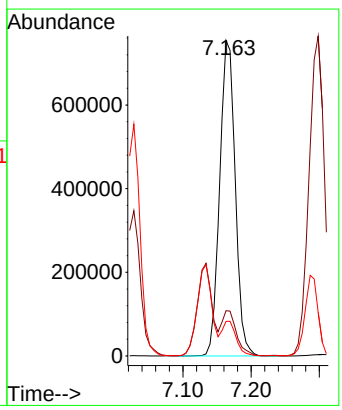
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

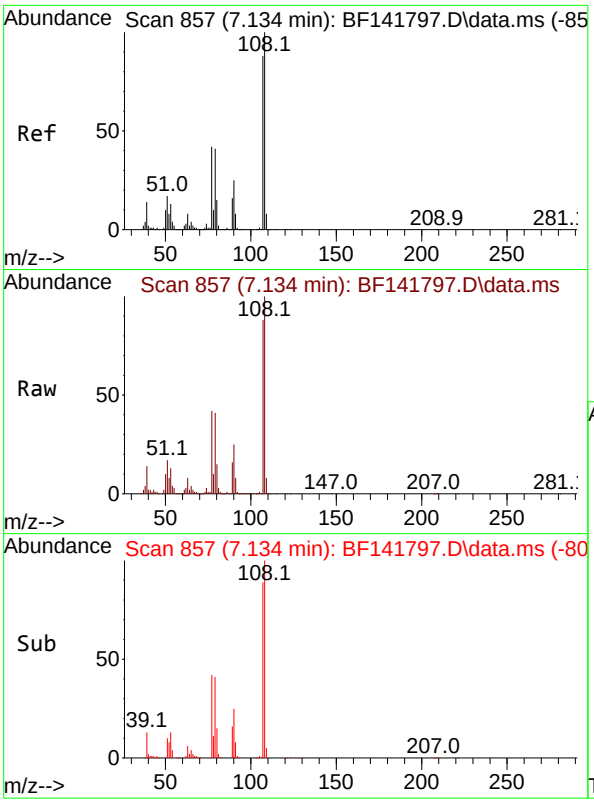


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.236 ng
RT: 7.163 min Scan# 862
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

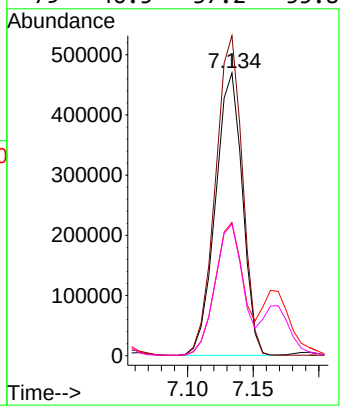




#17
2-Methylphenol
Concen: 41.635 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:107 Resp: 67059

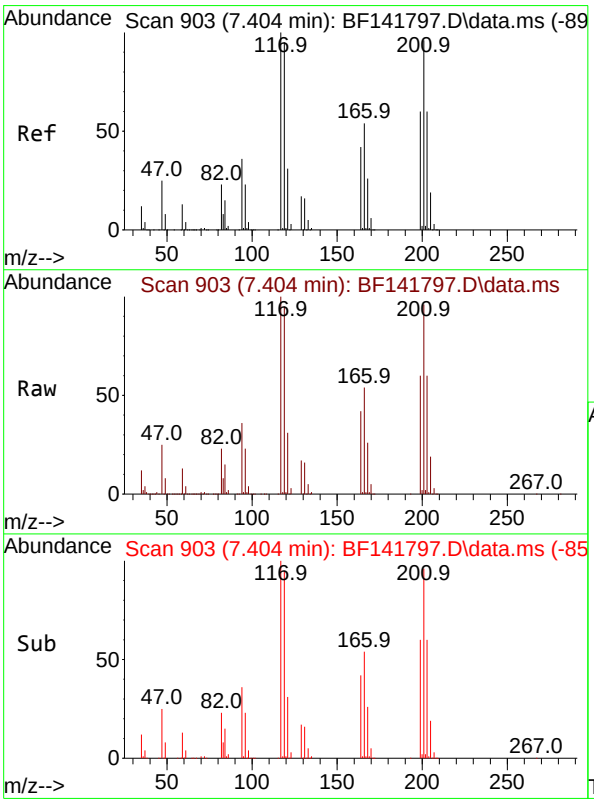
Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.6	135.8
77	47.1	37.7	56.5
79	46.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

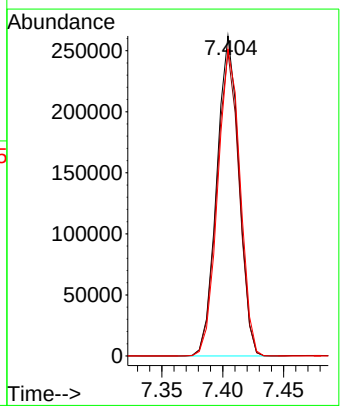
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

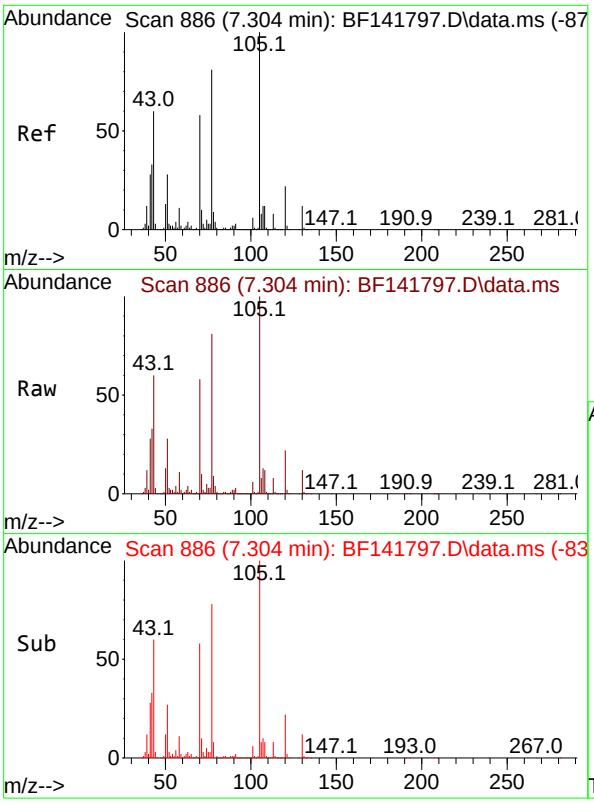


#18
Hexachloroethane
Concen: 42.223 ng
RT: 7.404 min Scan# 903
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

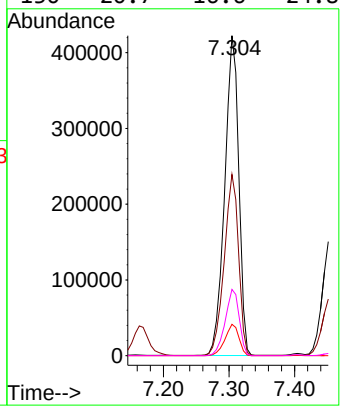




#19
n-Nitroso-di-n-propylamine
Concen: 40.586 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 70 Resp: 62639

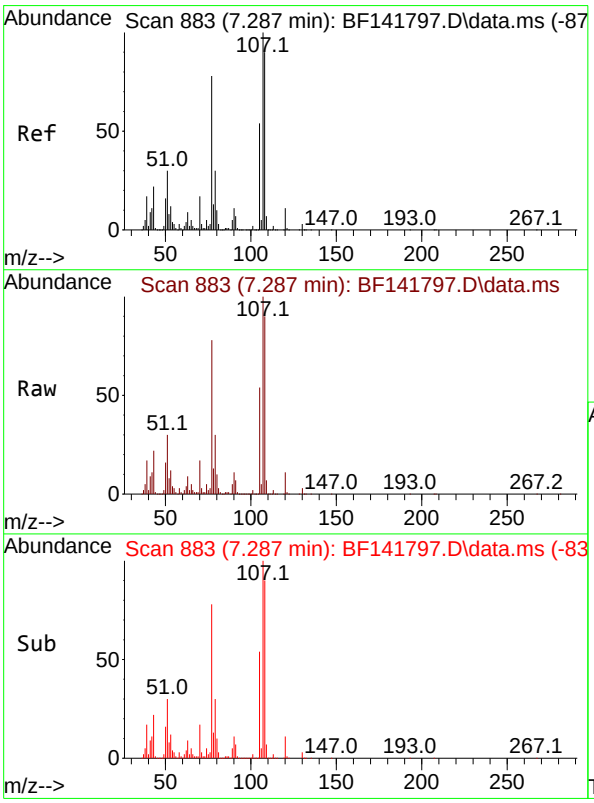
Ion	Ratio	Lower	Upper
70	100		
42	56.7	45.4	68.0
101	9.8	7.8	11.8
130	20.7	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

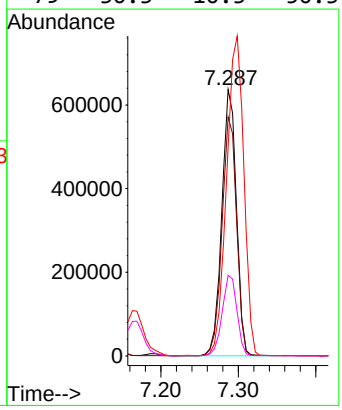
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

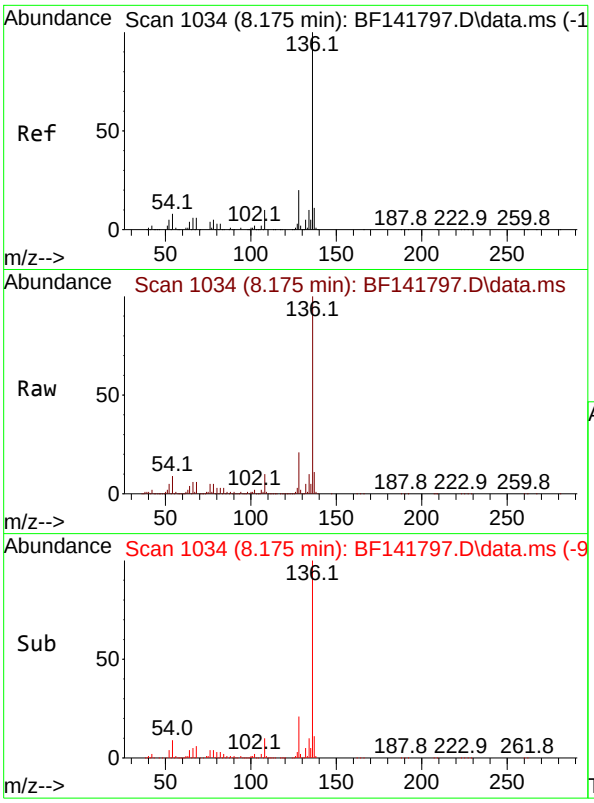


#20
3+4-Methylphenols
Concen: 41.411 ng
RT: 7.287 min Scan# 883
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

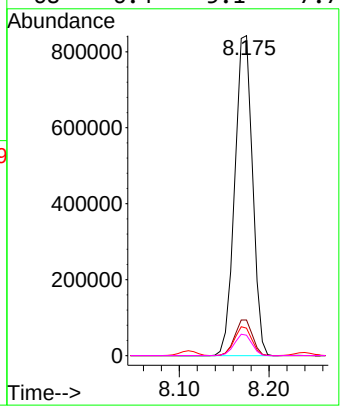




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:136 Resp: 115571

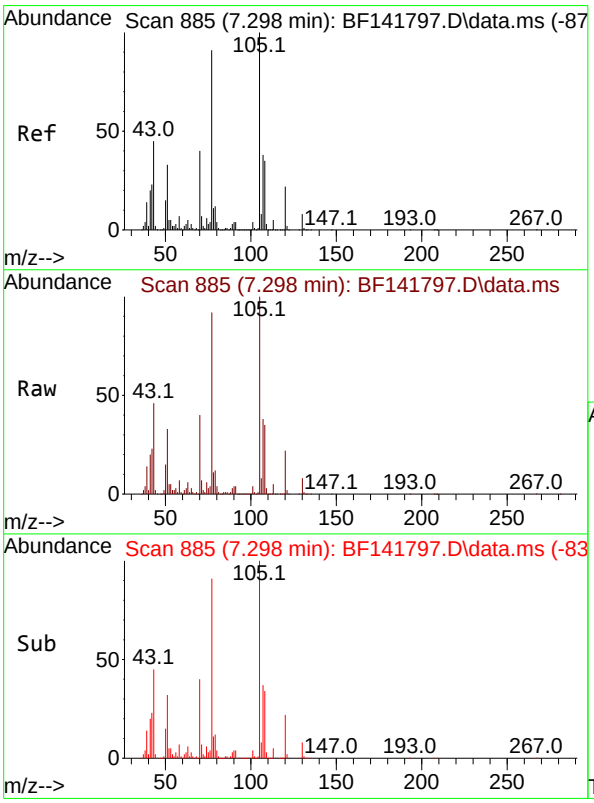
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	8.6	6.9	10.3
68	6.4	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

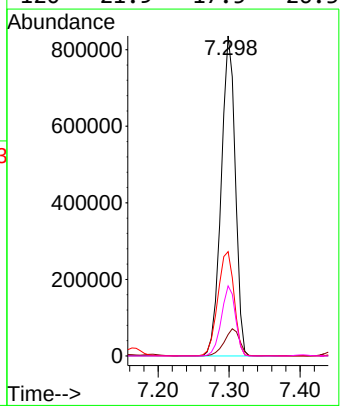
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

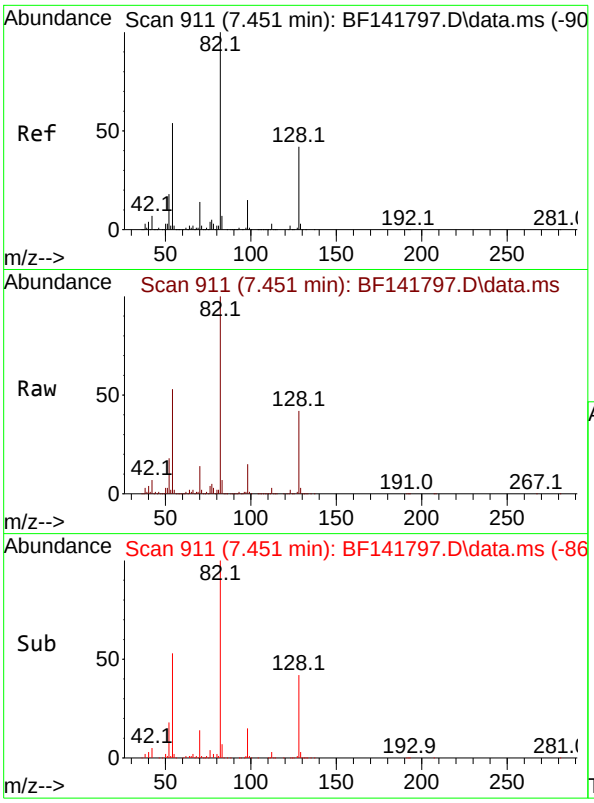


#22
Acetophenone
Concen: 40.776 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

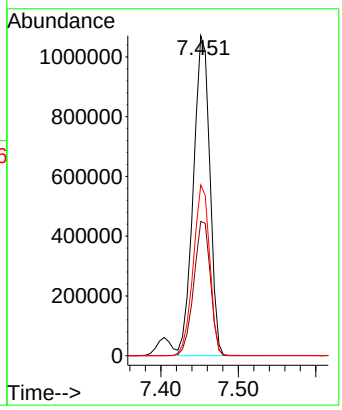




#23
Nitrobenzene-d5
Concen: 87.263 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157776

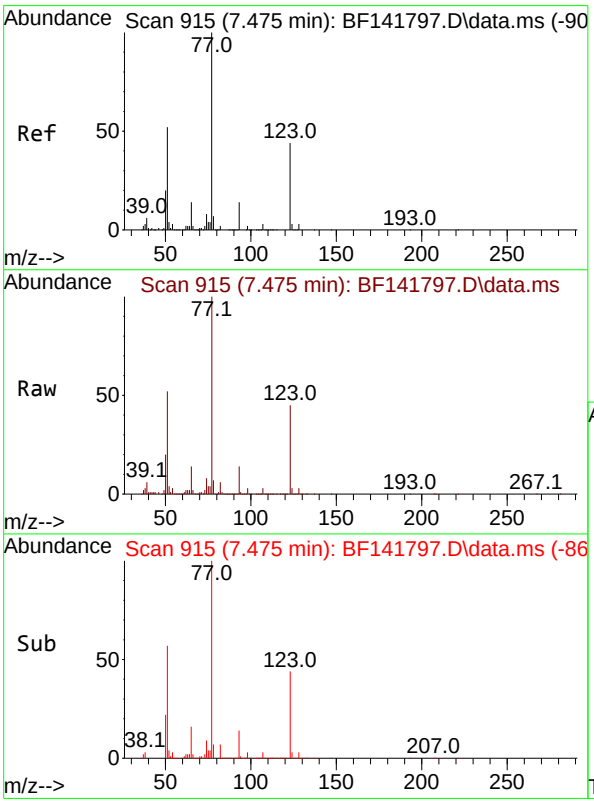
Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.5	50.3
54	53.4	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

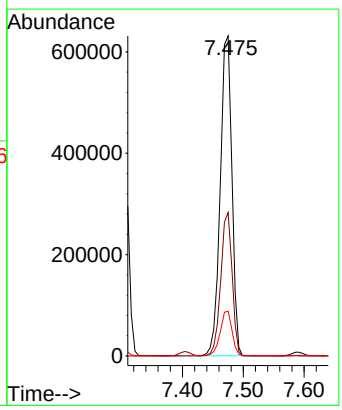
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

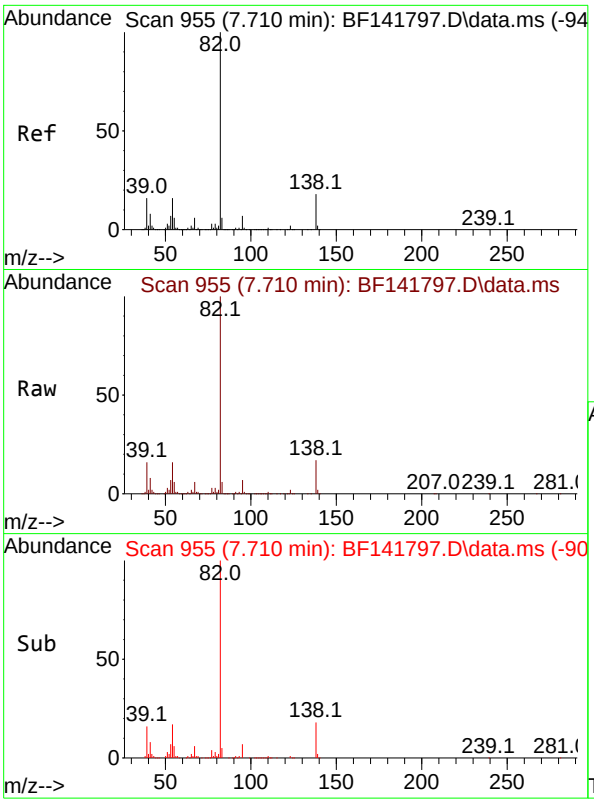


#24
Nitrobenzene
Concen: 43.379 ng
RT: 7.475 min Scan# 915
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

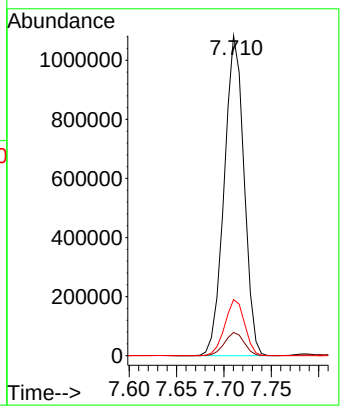




#25
Isophorone
Concen: 40.569 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 82 Resp: 157585

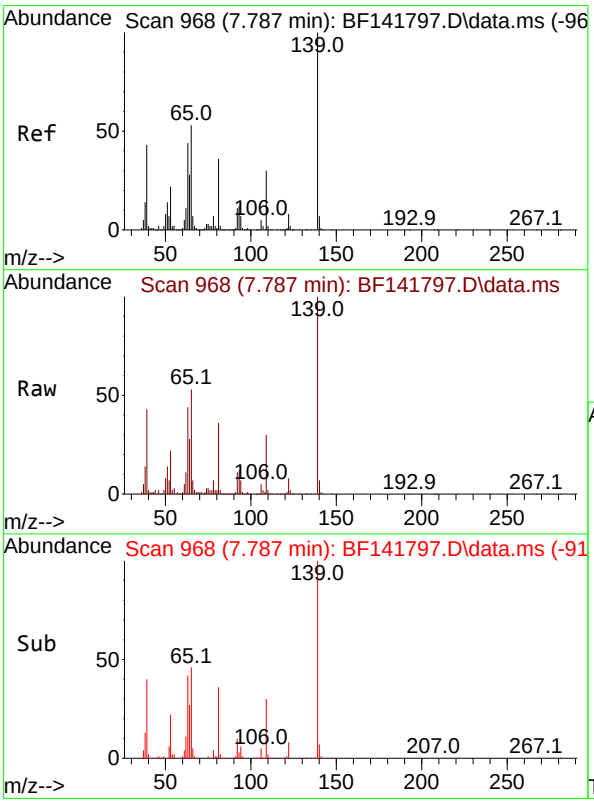
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.5	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

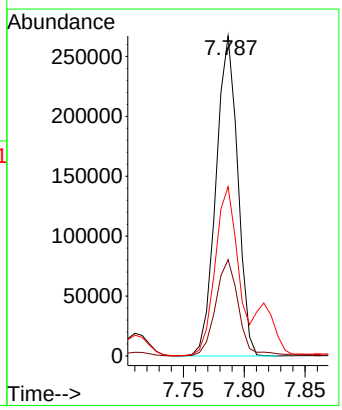
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

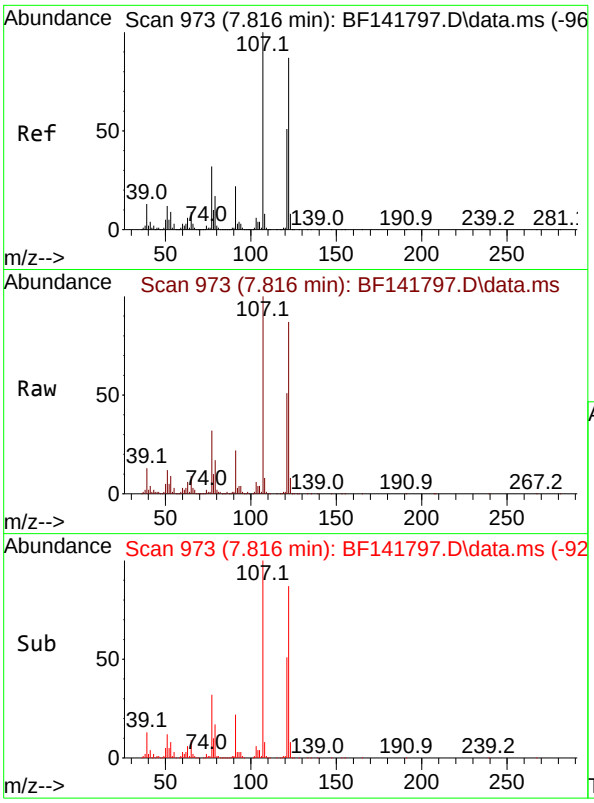


#26
2-Nitrophenol
Concen: 39.357 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

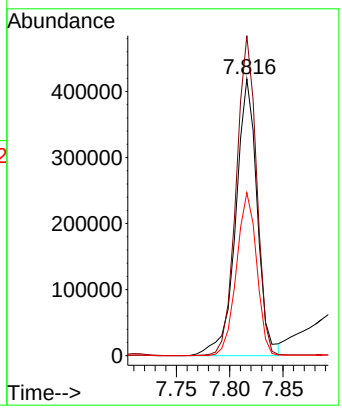




#27
2,4-Dimethylphenol
Concen: 41.191 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:122 Resp: 58815

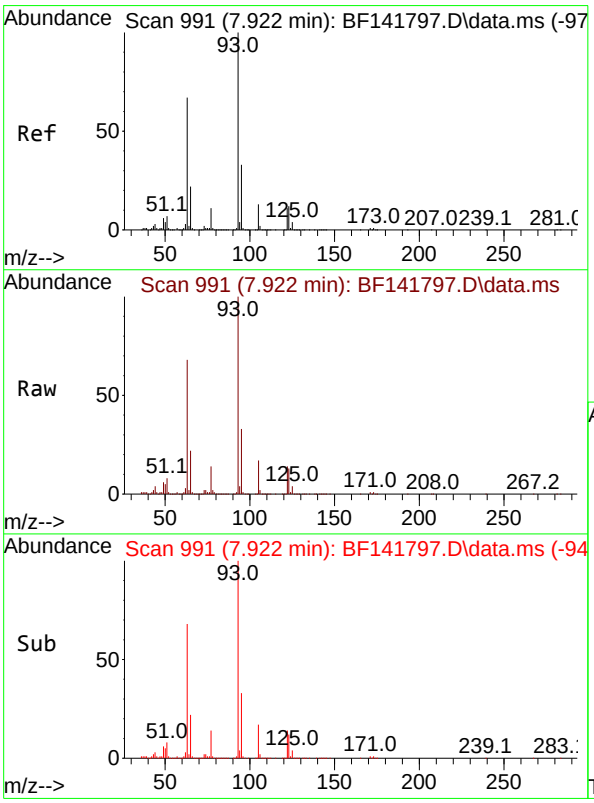
Ion	Ratio	Lower	Upper
122	100		
107	115.6	92.5	138.7
121	58.9	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

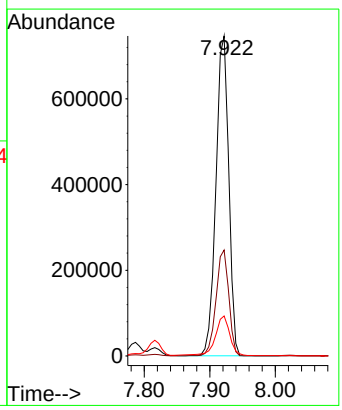
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

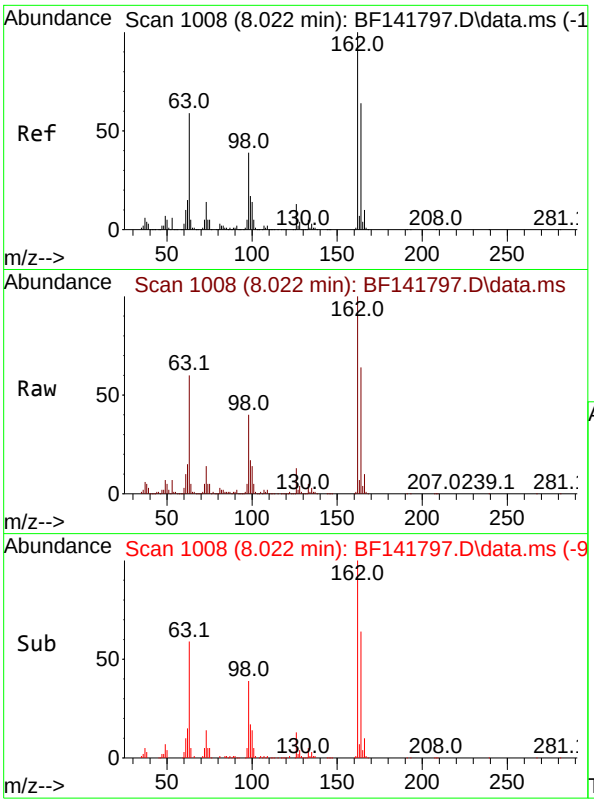


#28
bis(2-Chloroethoxy)methane
Concen: 40.624 ng
RT: 7.922 min Scan# 991
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

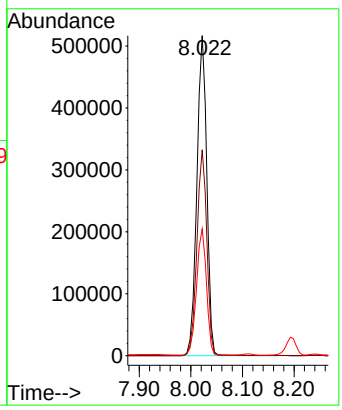




#29
2,4-Dichlorophenol
Concen: 41.819 ng
RT: 8.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:162 Resp: 68886

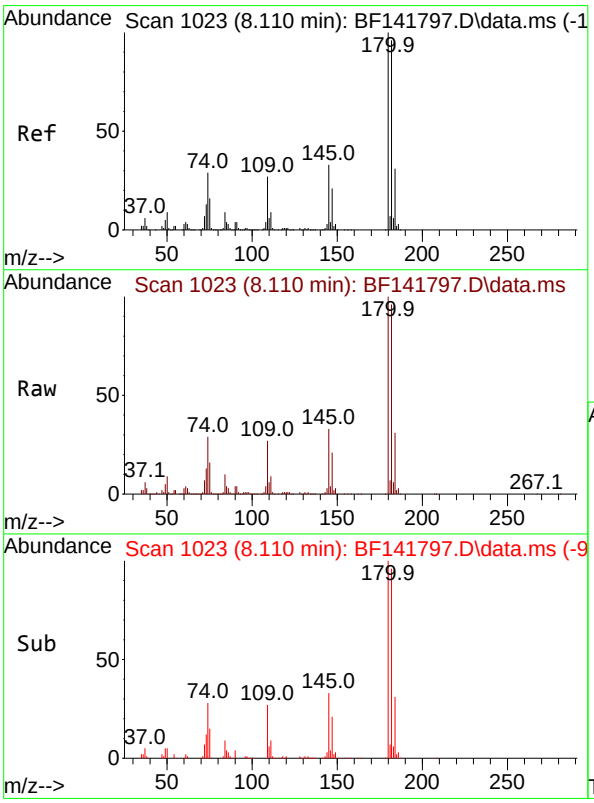
Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.3	84.3
98	39.6	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

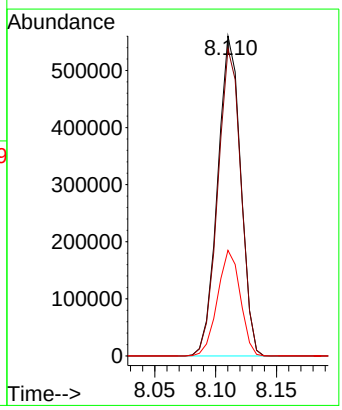
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

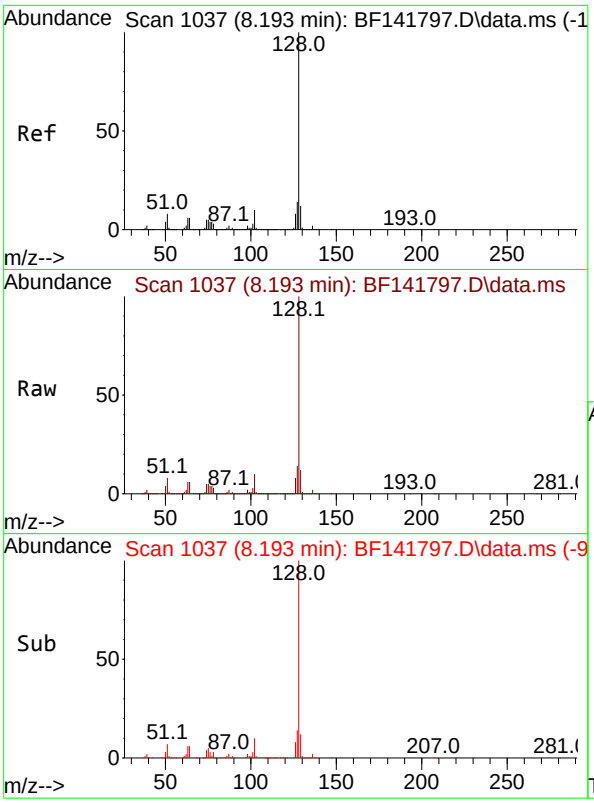


#30
1,2,4-Trichlorobenzene
Concen: 40.863 ng
RT: 8.110 min Scan# 1023
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

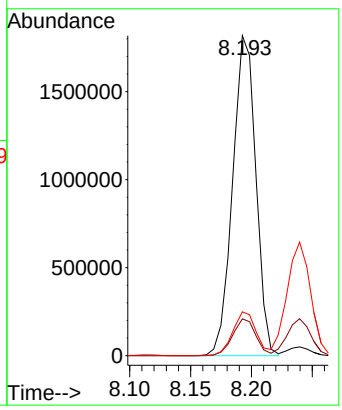




#31
Naphthalene
Concen: 40.588 ng
RT: 8.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:128 Resp: 241091

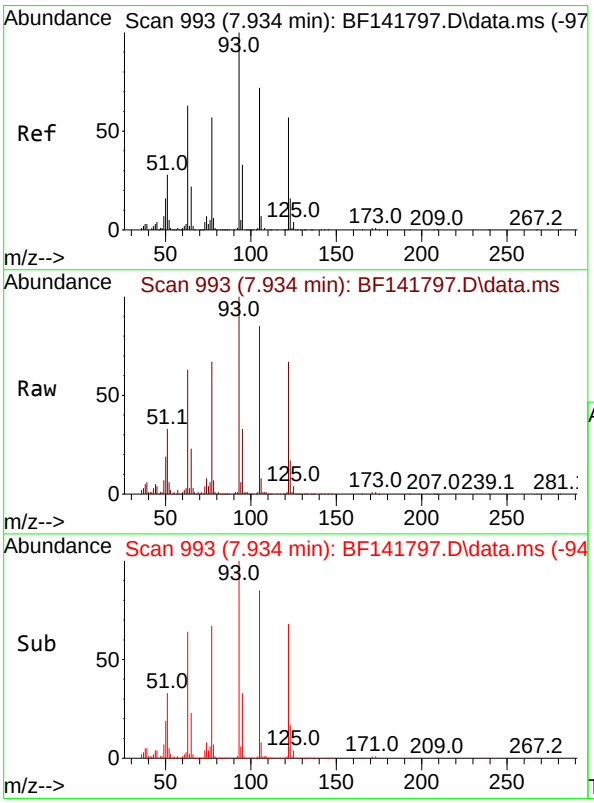
Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.7	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

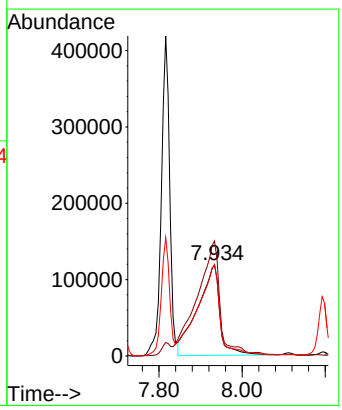
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

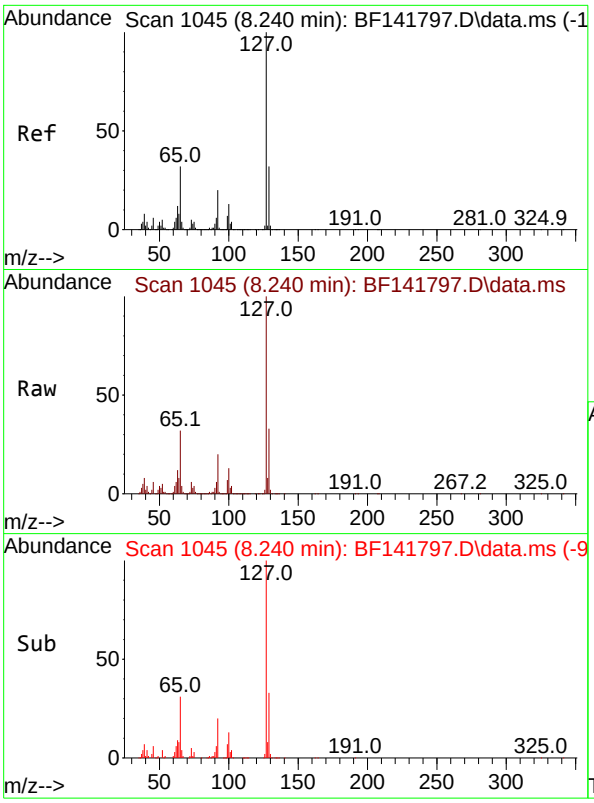


#32
Benzoic acid
Concen: 38.870 ng
RT: 7.934 min Scan# 993
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

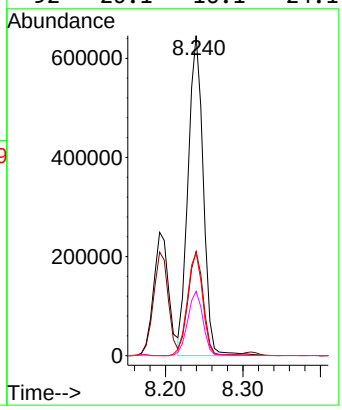




#33
4-Chloroaniline
Concen: 40.271 ng
RT: 8.240 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:127 Resp: 87708

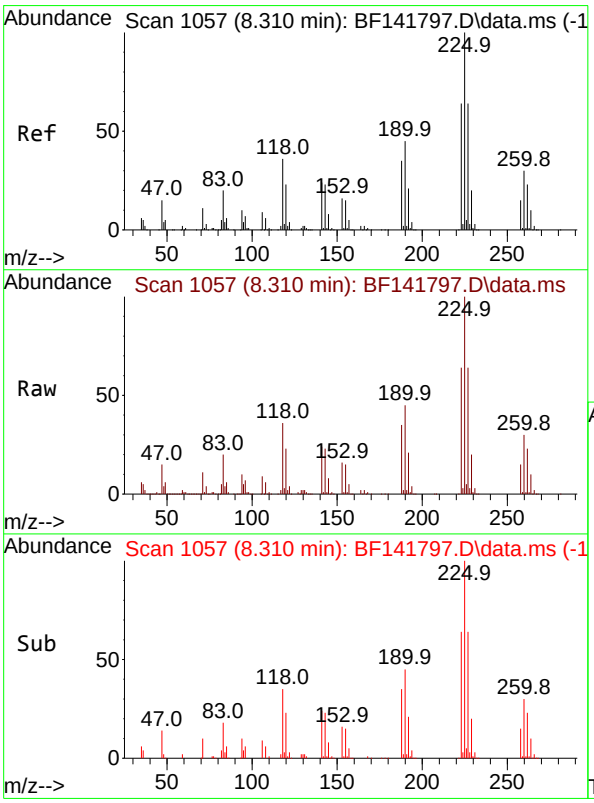
Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	32.1	25.7	38.5
92	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

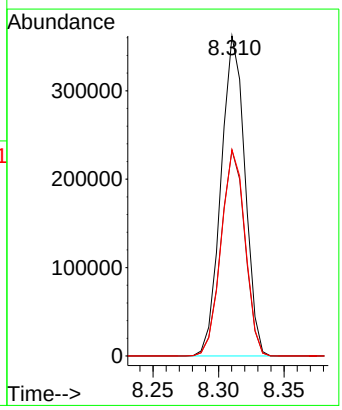
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

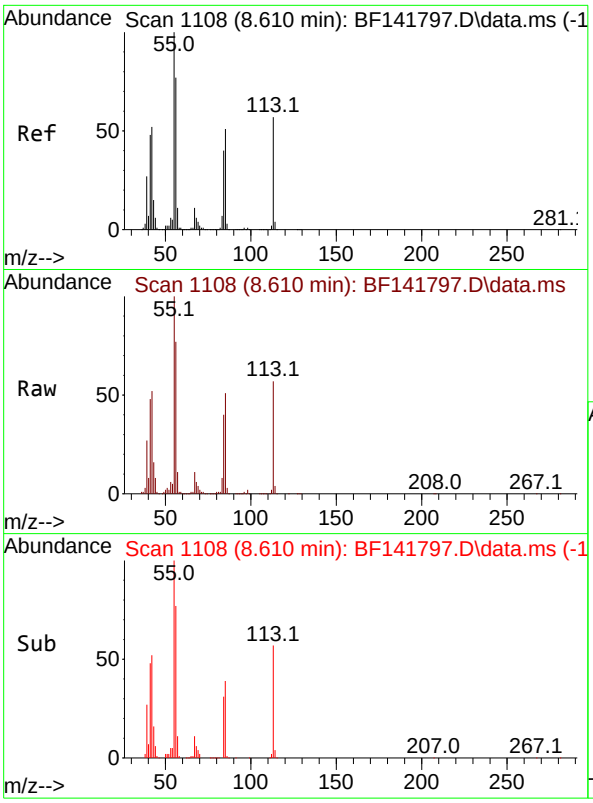


#34
Hexachlorobutadiene
Concen: 40.952 ng
RT: 8.310 min Scan# 1057
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

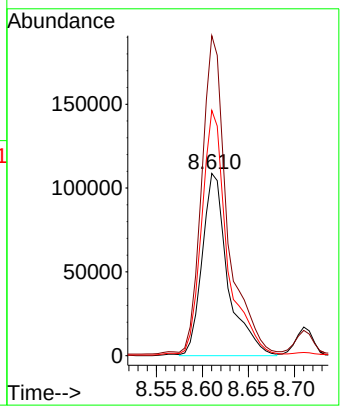




#35
Caprolactam
Concen: 41.695 ng m
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:113 Resp: 21133

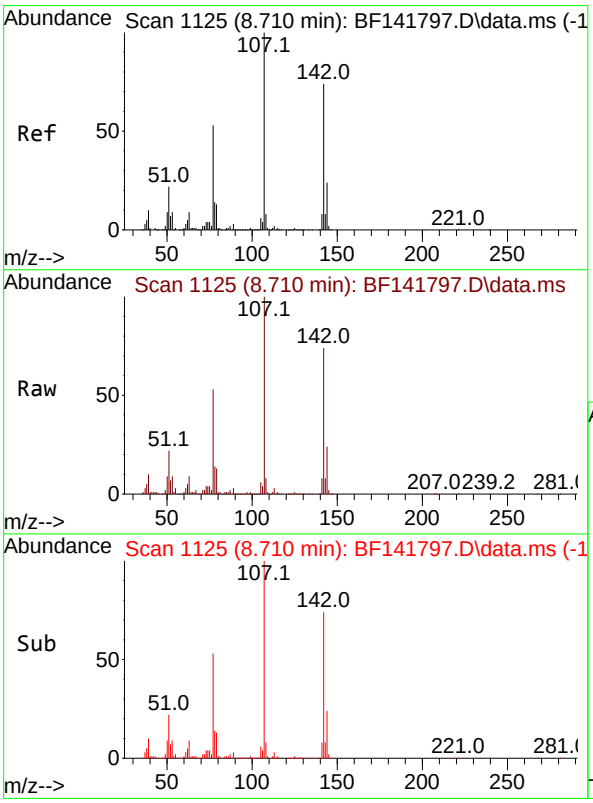
Ion	Ratio	Lower	Upper
113	100		
55	175.6	155.6	195.6
56	134.6	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

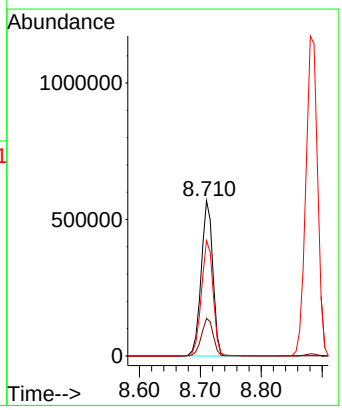
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

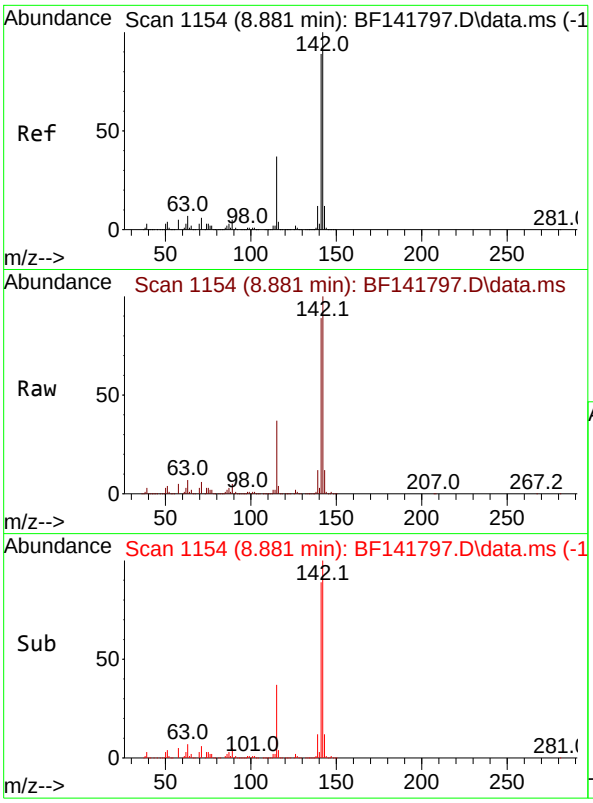


#36
4-Chloro-3-methylphenol
Concen: 41.148 ng
RT: 8.710 min Scan# 1125
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

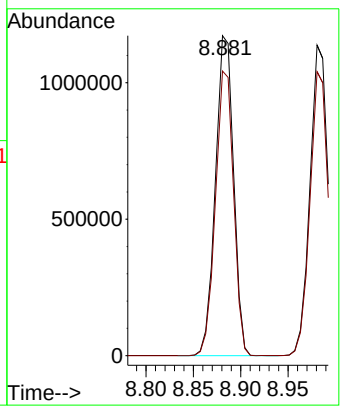




#37
2-Methylnaphthalene
Concen: 40.179 ng
RT: 8.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 156542

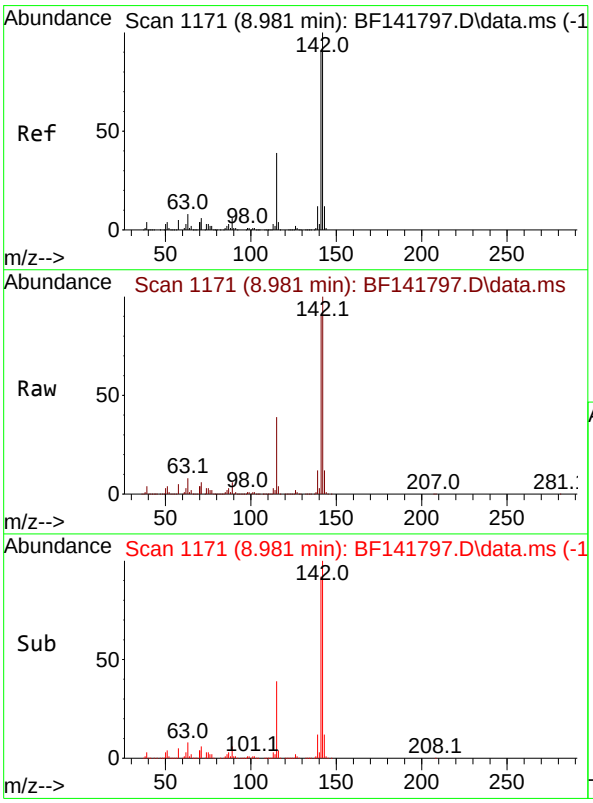
Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

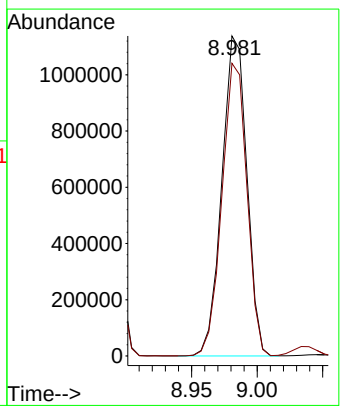
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

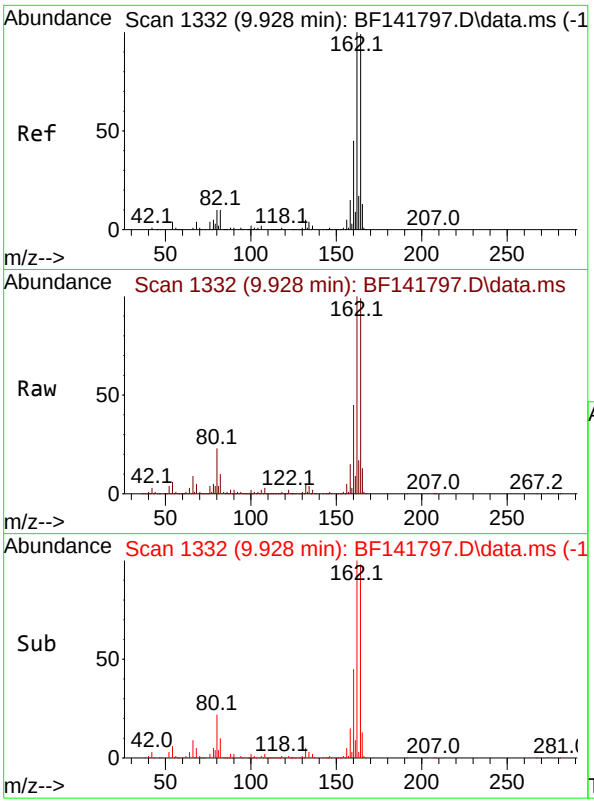


#38
1-Methylnaphthalene
Concen: 40.286 ng
RT: 8.981 min Scan# 1171
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:142 Resp: 1506039

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.1	109.7

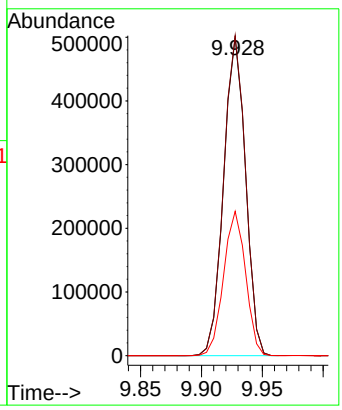




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:164 Resp: 62524

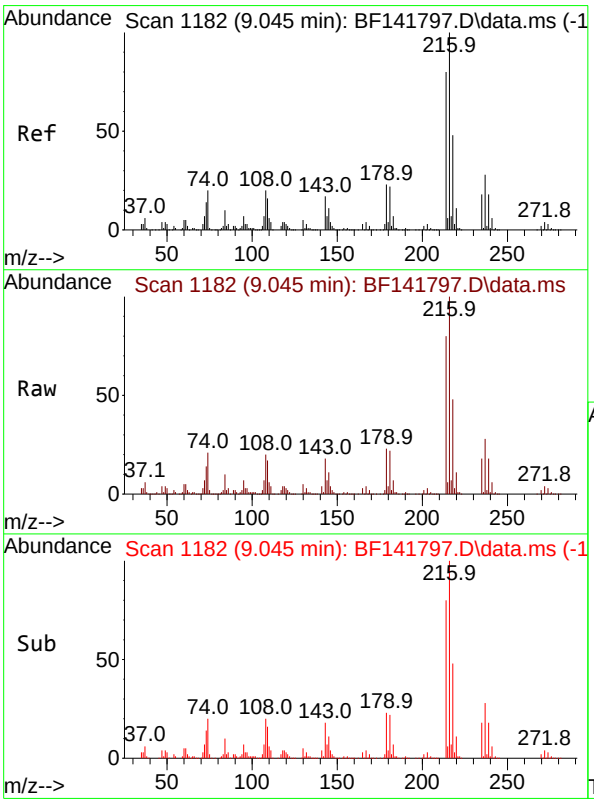
Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.6	120.8
160	45.4	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

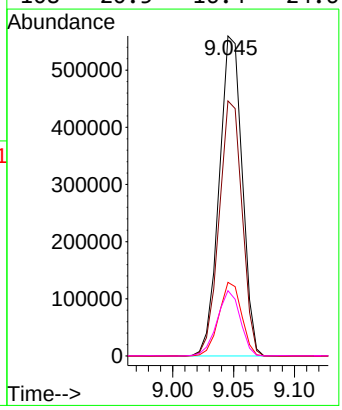
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

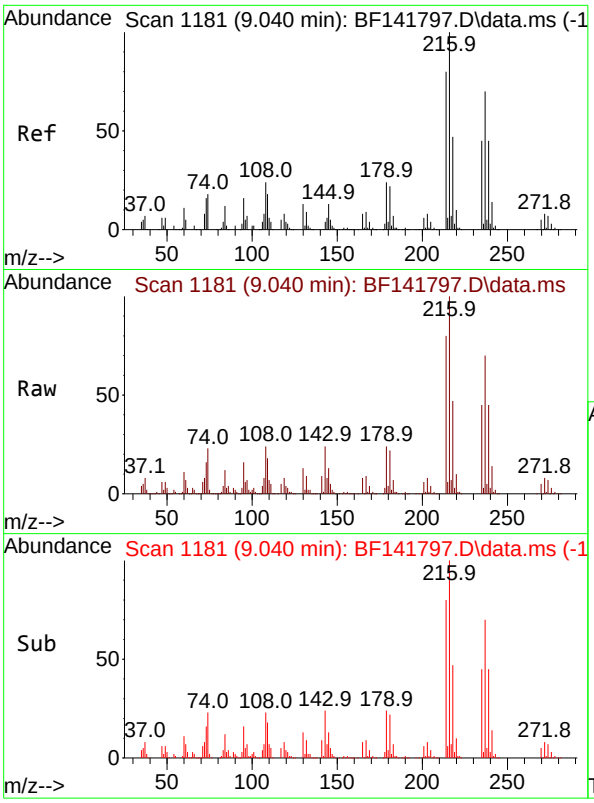


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.786 ng
RT: 9.045 min Scan# 1182
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

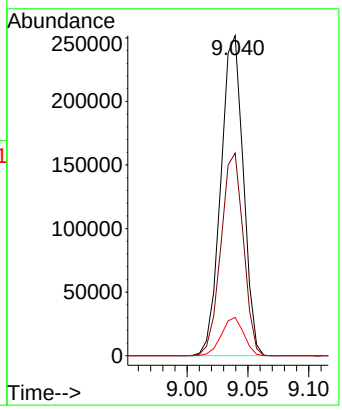




#41
Hexachlorocyclopentadiene
Concen: 42.882 ng
RT: 9.040 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:237 Resp: 32316

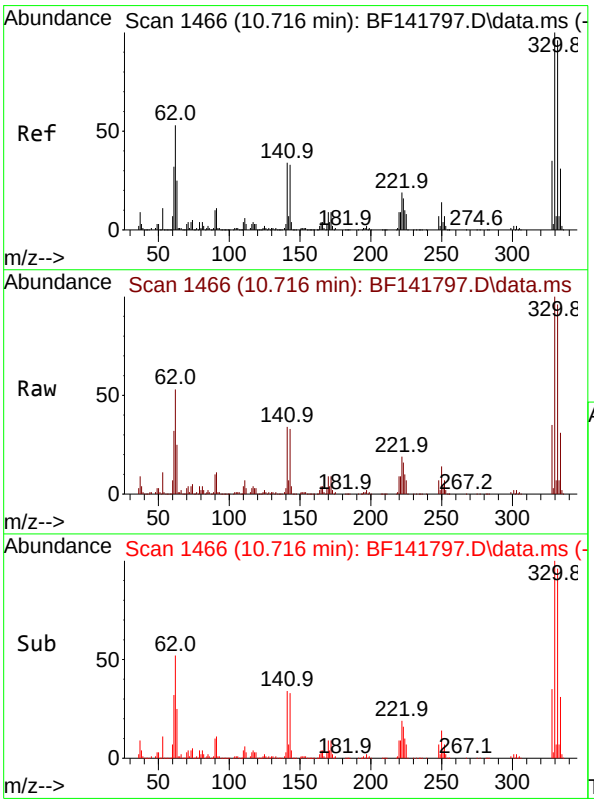
Ion	Ratio	Lower	Upper
237	100		
235	63.3	43.3	83.3
272	11.9	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

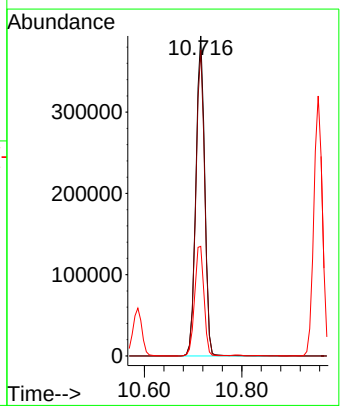
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

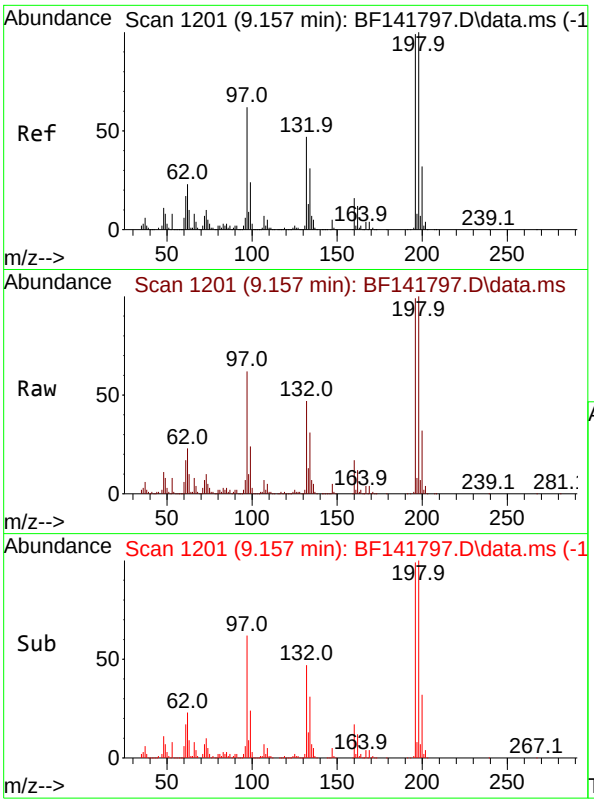


#42
2,4,6-Tribromophenol
Concen: 84.959 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

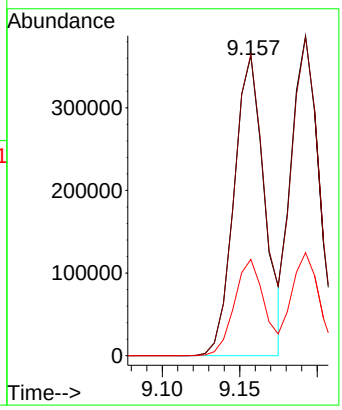




#43
2,4,6-Trichlorophenol
Concen: 42.623 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:196 Resp: 49718

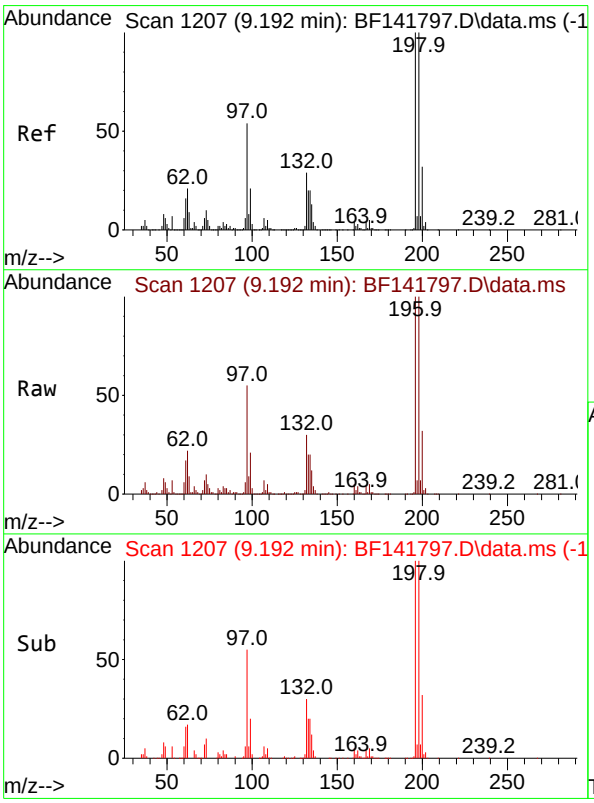
Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.4	120.6
200	32.1	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

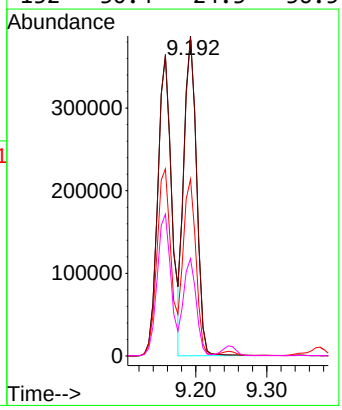
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

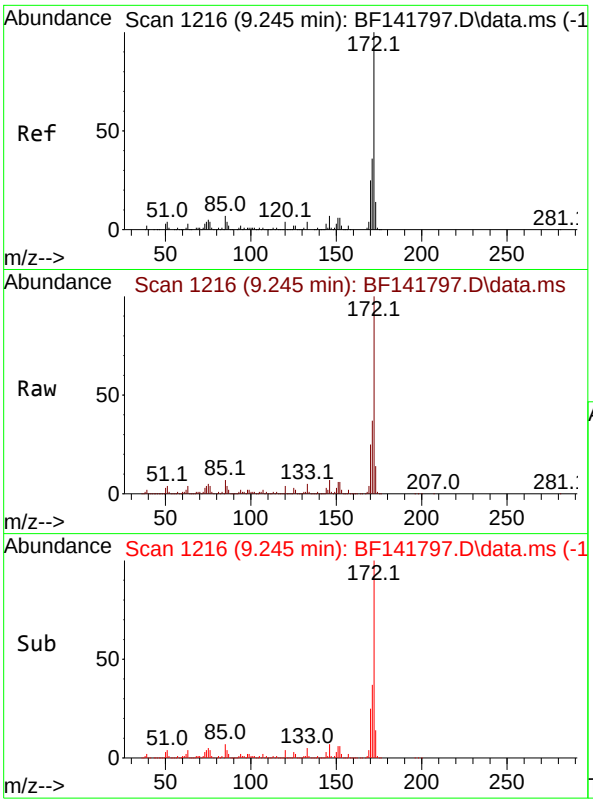


#44
2,4,5-Trichlorophenol
Concen: 41.448 ng
RT: 9.192 min Scan# 1207
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

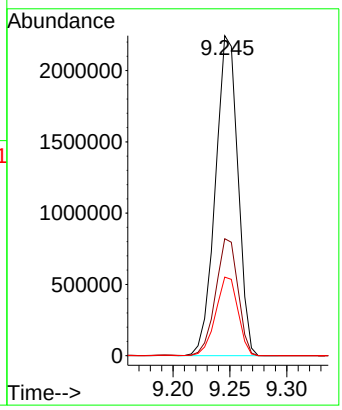




#45
2-Fluorobiphenyl
Concen: 79.348 ng
RT: 9.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:172 Resp: 309407

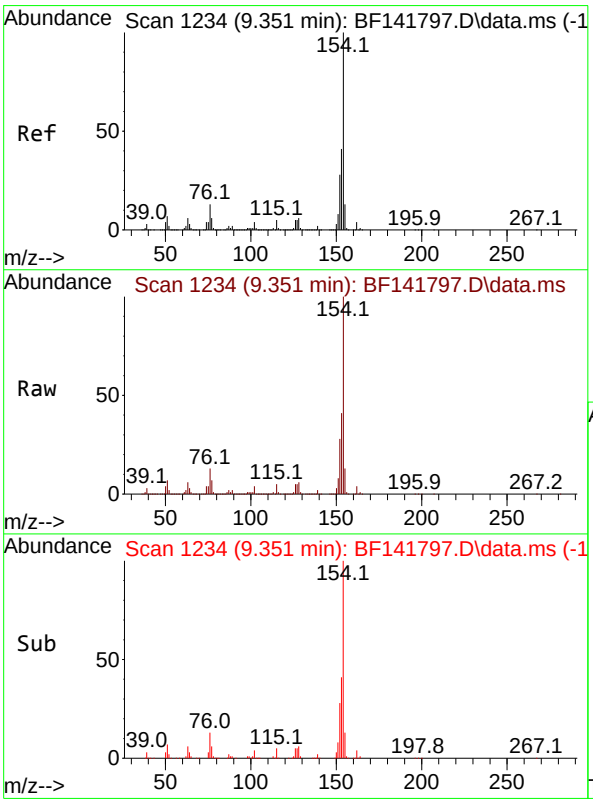
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.6	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

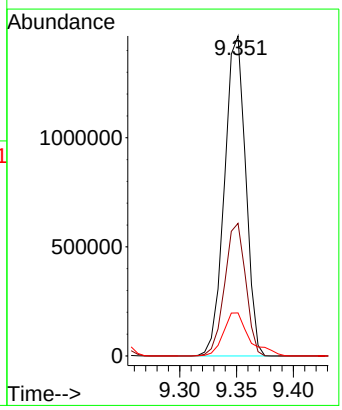
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

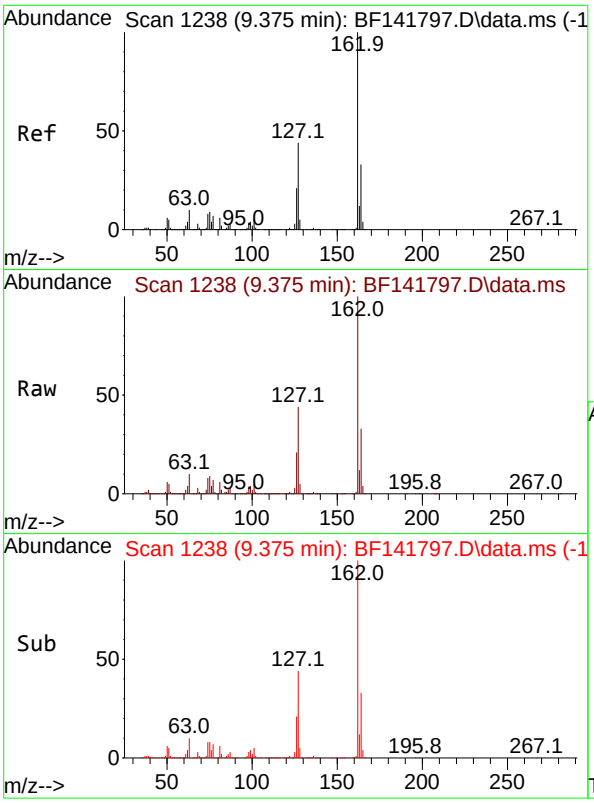


#46
1,1'-Biphenyl
Concen: 39.917 ng
RT: 9.351 min Scan# 1234
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

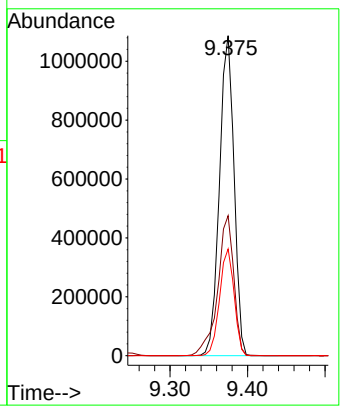




#47
2-Chloronaphthalene
Concen: 40.402 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:162 Resp: 141914

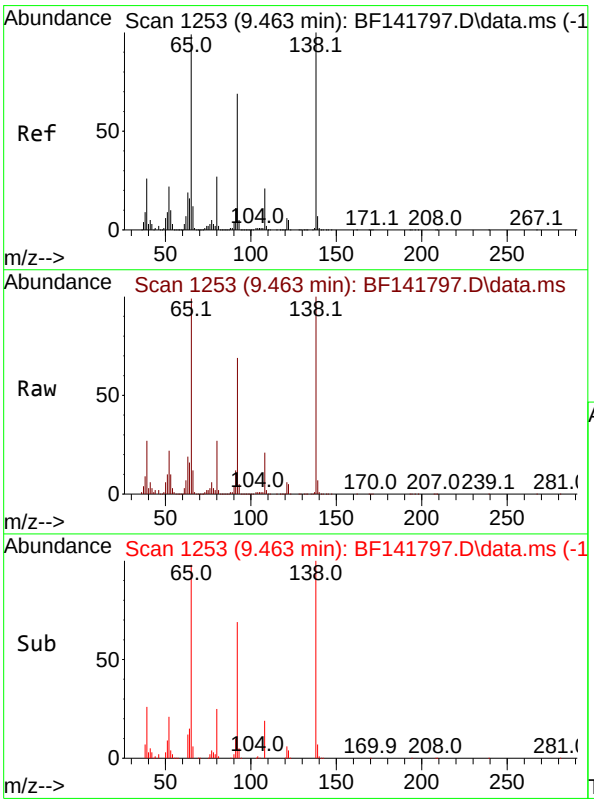
Ion	Ratio	Lower	Upper
162	100		
127	43.8	35.0	52.6
164	33.3	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

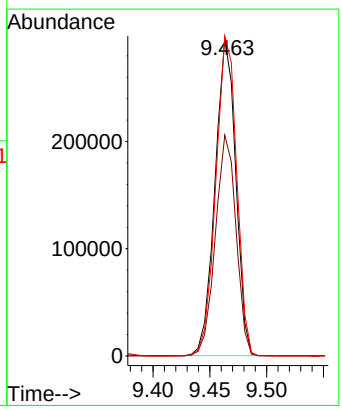
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

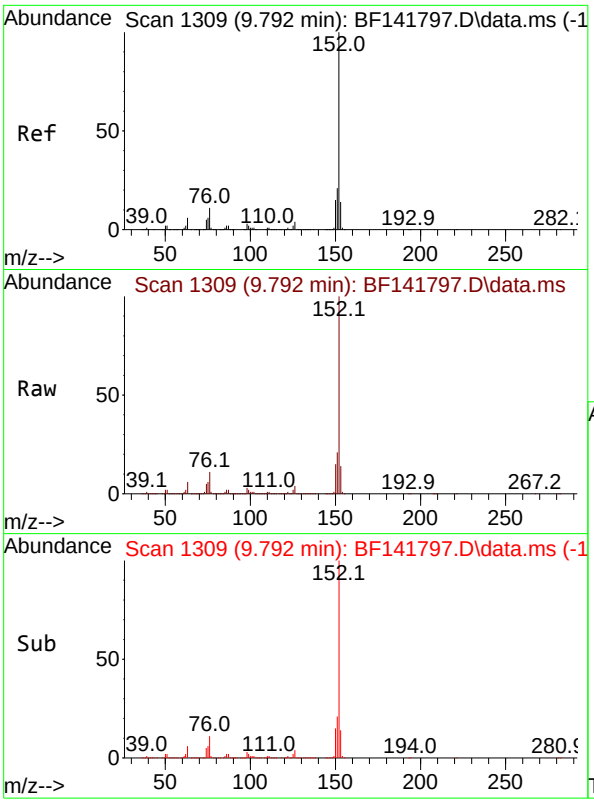


#48
2-Nitroaniline
Concen: 39.827 ng
RT: 9.463 min Scan# 1253
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

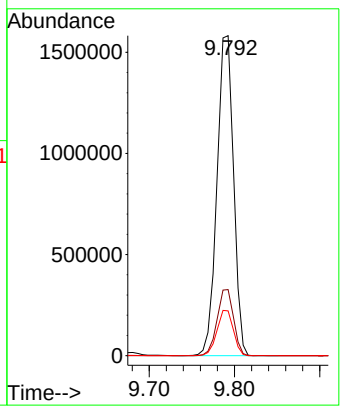




#49
Acenaphthylene
Concen: 40.629 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:152 Resp: 213972

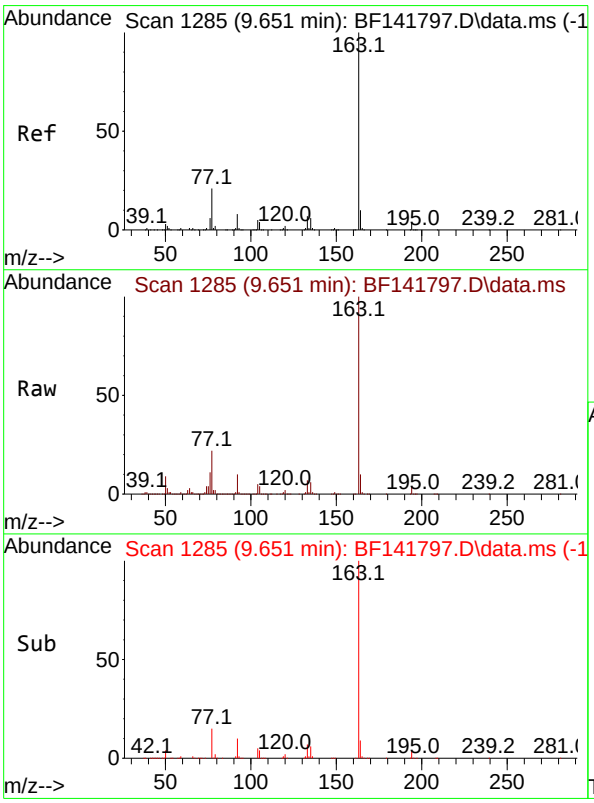
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.6	24.8
153	14.0	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

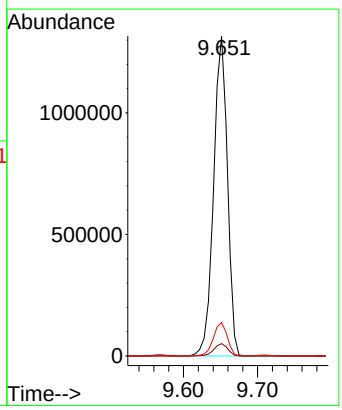
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

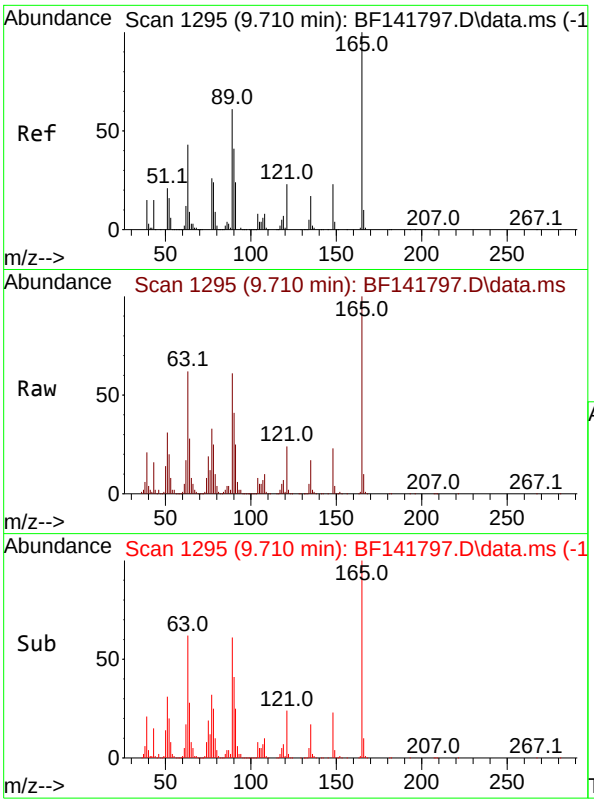


#50
Dimethylphthalate
Concen: 40.710 ng
RT: 9.651 min Scan# 1285
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

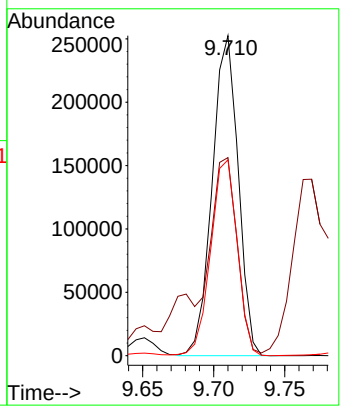




#51
2,6-Dinitrotoluene
Concen: 40.557 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 32112

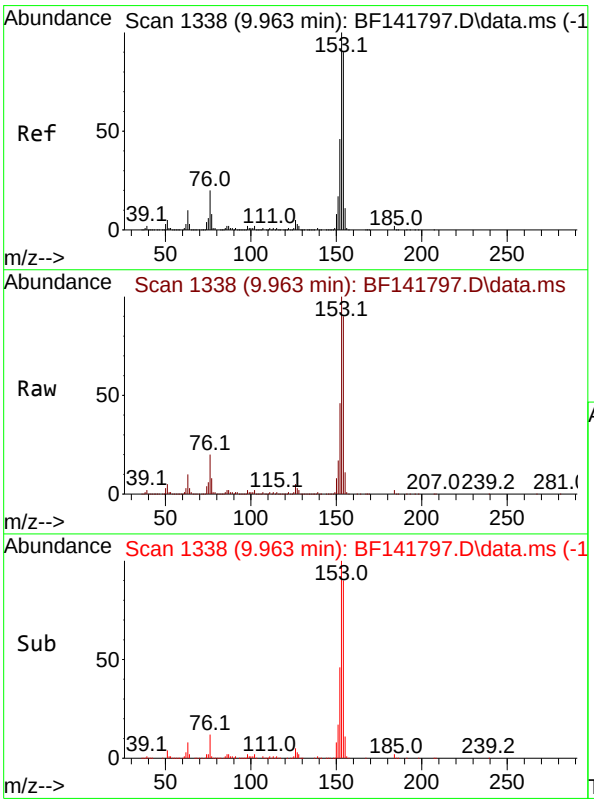
Ion	Ratio	Lower	Upper
165	100		
63	61.9	49.5	74.3
89	61.2	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

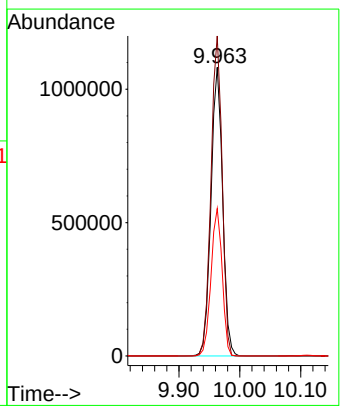
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

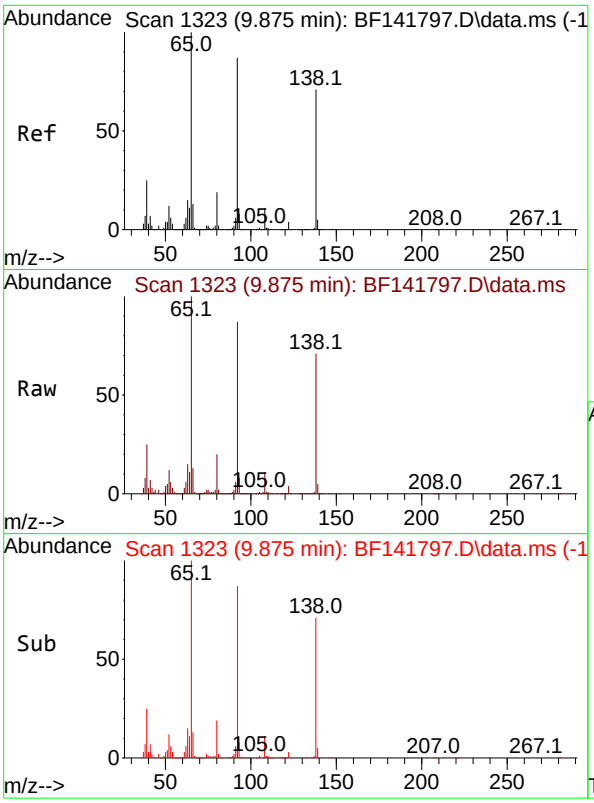


#52
Acenaphthene
Concen: 40.461 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

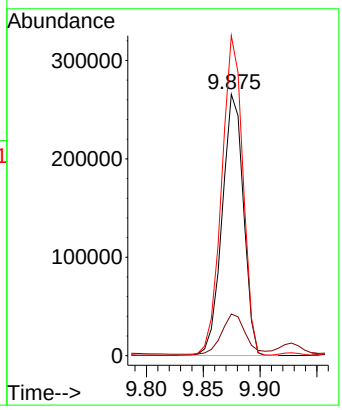




#53
3-Nitroaniline
Concen: 41.045 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:138 Resp: 34629

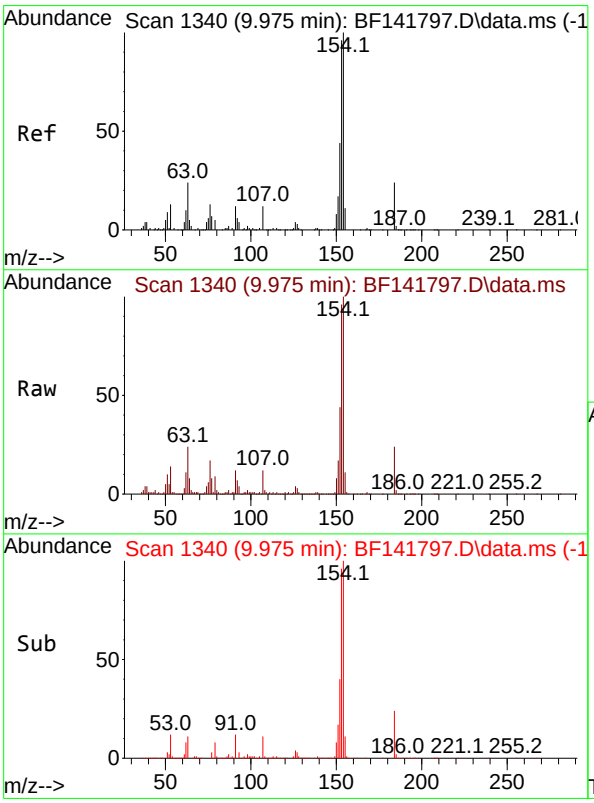
Ion	Ratio	Lower	Upper
138	100		
108	15.9	12.7	19.1
92	122.4	97.9	146.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

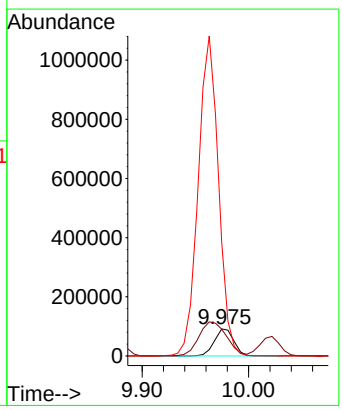
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

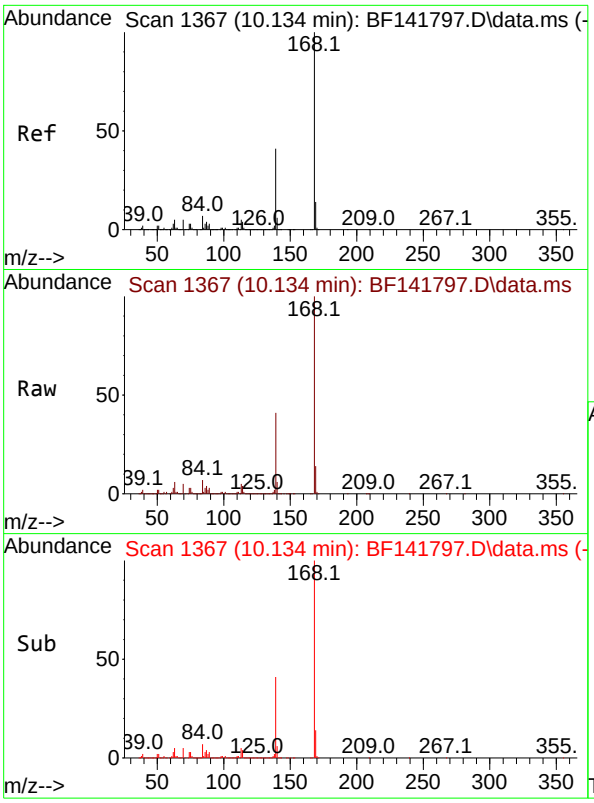


#54
2,4-Dinitrophenol
Concen: 39.874 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

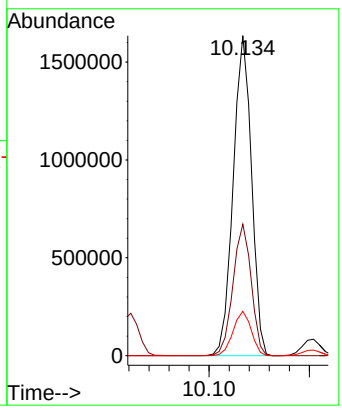




#55
Dibenzofuran
Concen: 40.198 ng
RT: 10.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:168 Resp: 207913

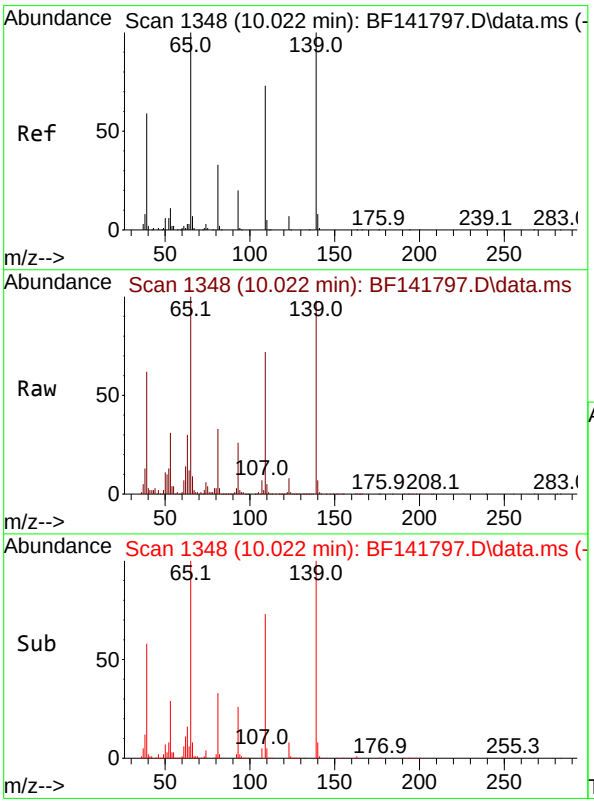
Ion	Ratio	Lower	Upper
168	100		
139	41.1	32.9	49.3
169	13.9	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

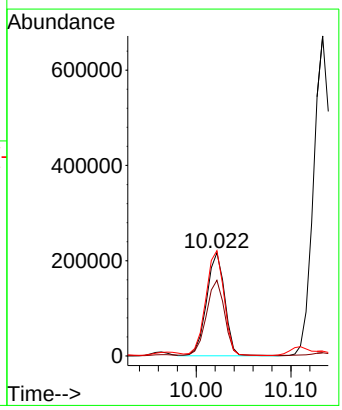
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

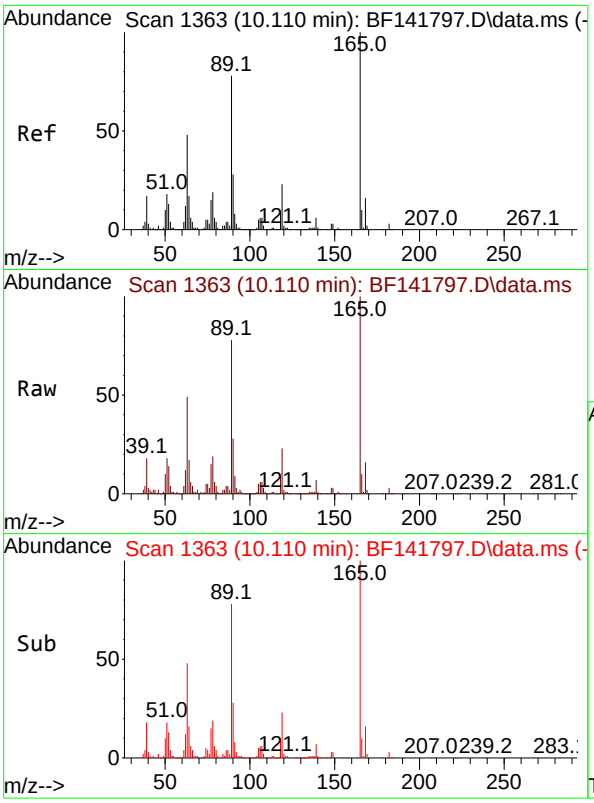


#56
4-Nitrophenol
Concen: 46.172 ng
RT: 10.022 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

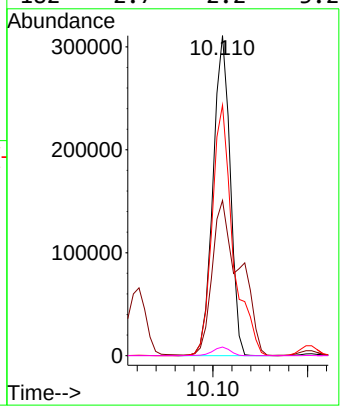




#57
2,4-Dinitrotoluene
Concen: 40.635 ng
RT: 10.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:165 Resp: 39185

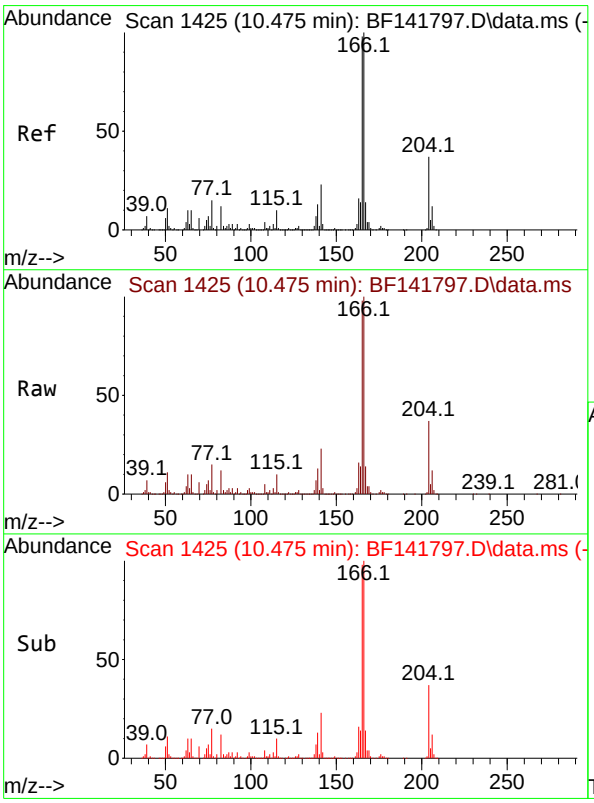
Ion	Ratio	Lower	Upper
165	100		
63	48.5	38.8	58.2
89	78.3	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

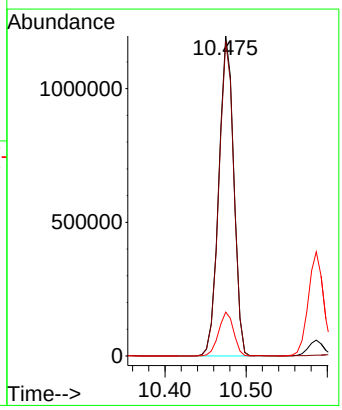
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

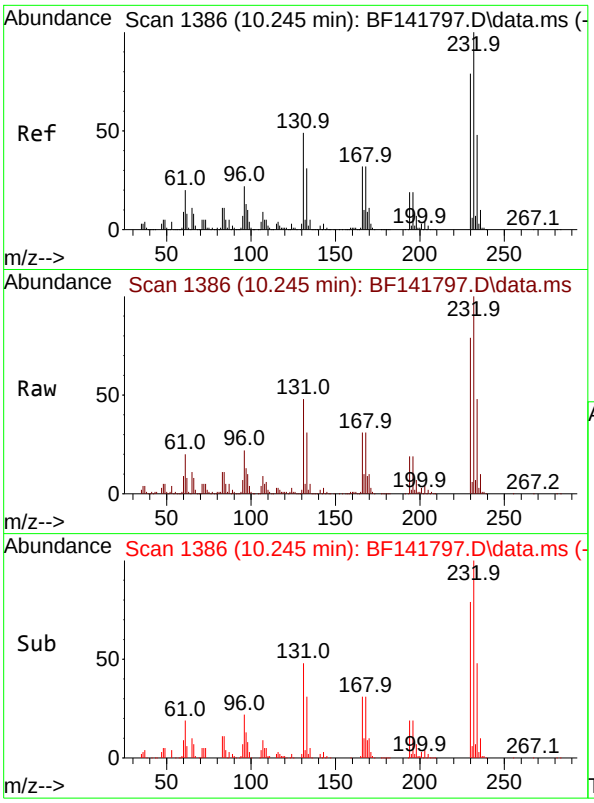


#58
Fluorene
Concen: 39.650 ng
RT: 10.475 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

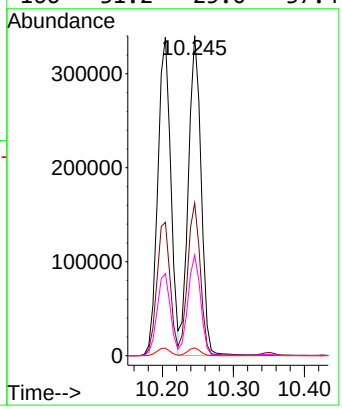




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.235 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:232 Resp: 42427

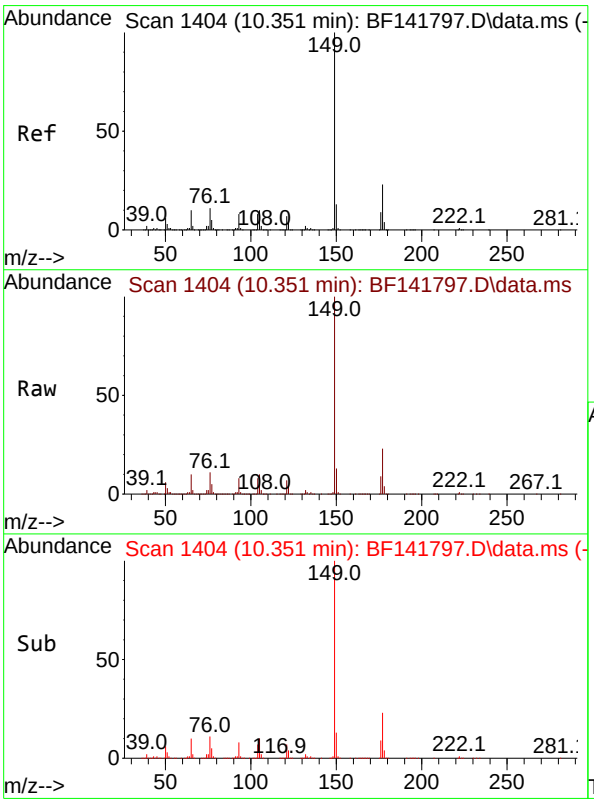
Ion	Ratio	Lower	Upper
232	100		
131	47.3	37.8	56.8
130	2.5	2.0	3.0
166	31.2	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

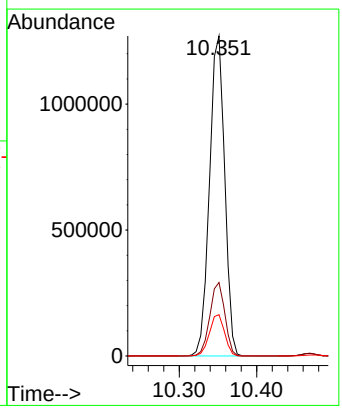
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

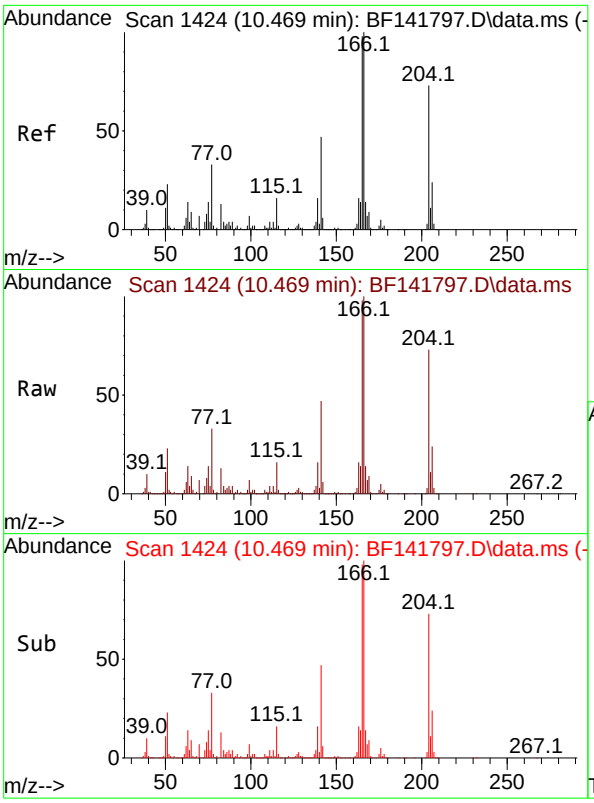


#60
Diethylphthalate
Concen: 41.203 ng
RT: 10.351 min Scan# 1404
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

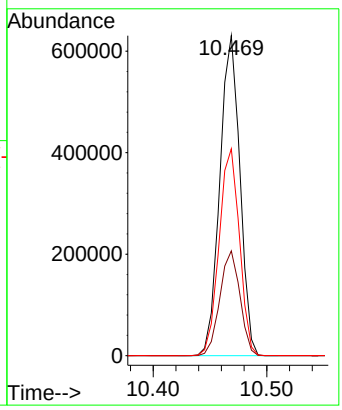
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

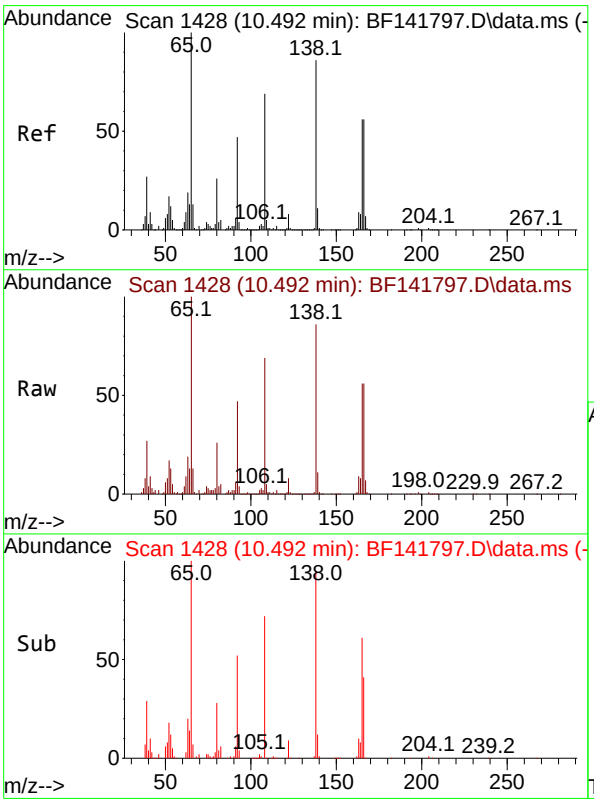
Tgt Ion:204 Resp: 77527

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

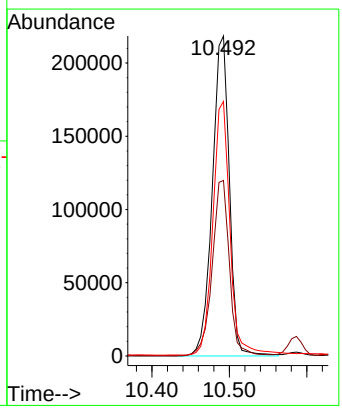


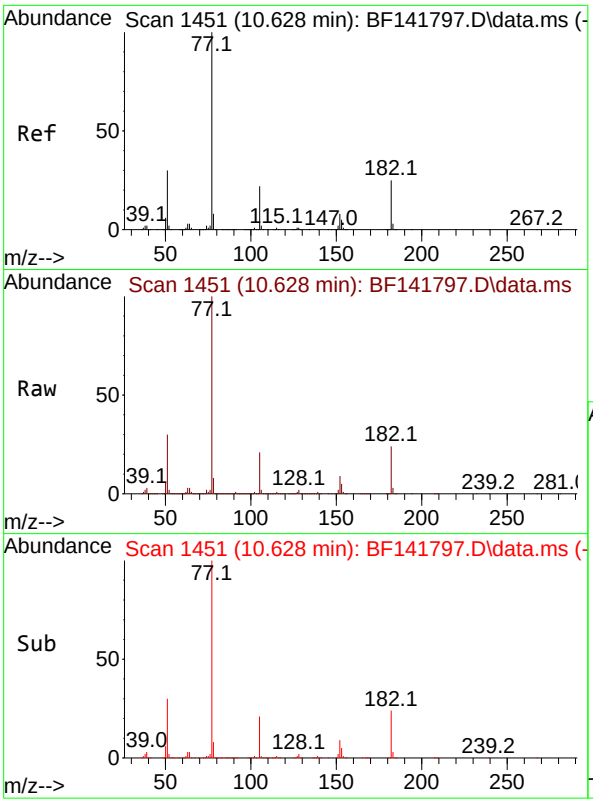


#62
4-Nitroaniline
Concen: 46.685 ng
RT: 10.492 min Scan# 1428
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

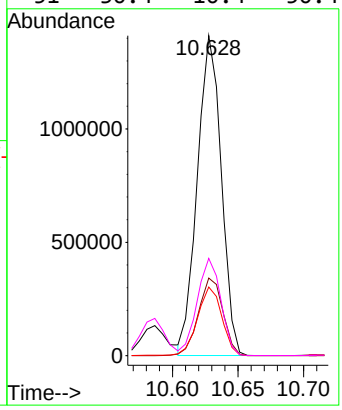




#63
Azobenzene
Concen: 40.657 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion: 77 Resp: 179690

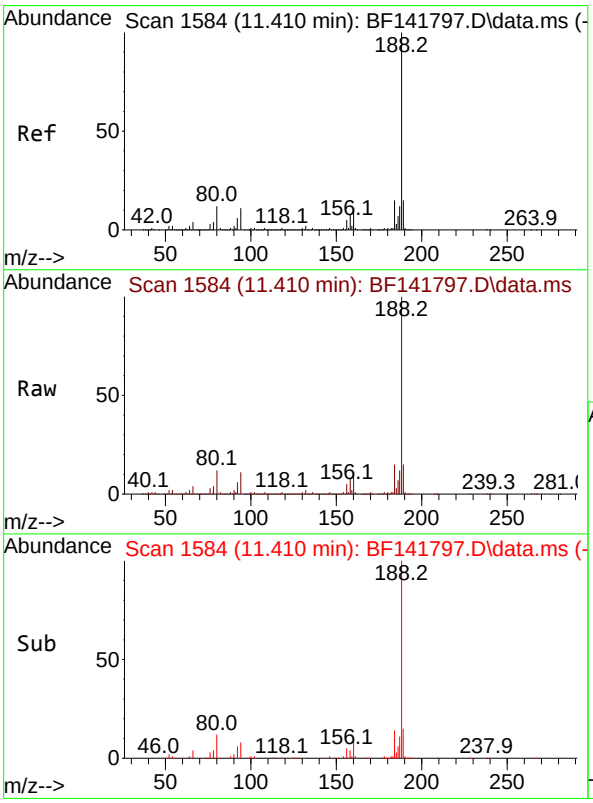
Ion	Ratio	Lower	Upper
77	100		
182	24.2	4.2	44.2
105	21.5	1.5	41.5
51	30.4	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

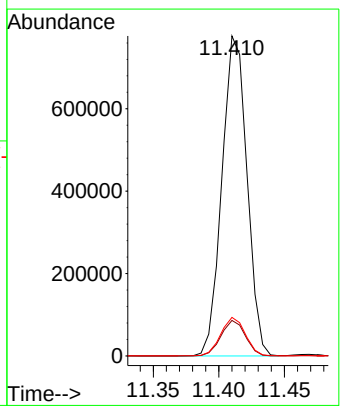
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

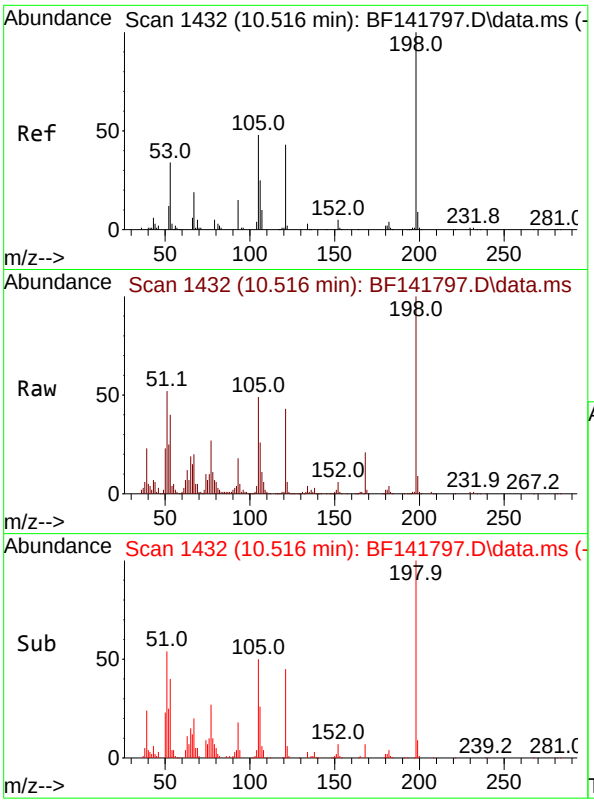


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

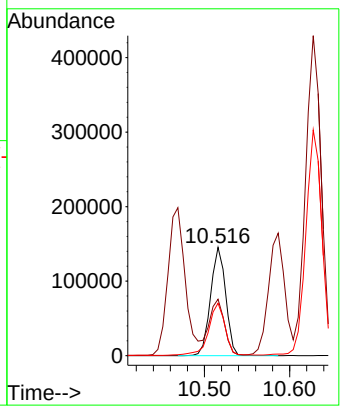




#65
4,6-Dinitro-2-methylphenol
Concen: 38.731 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:198 Resp: 17901

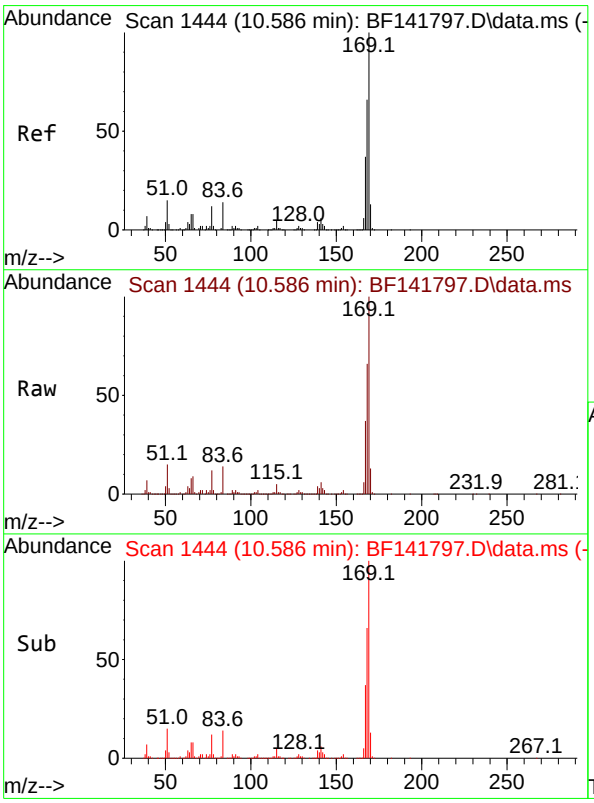
Ion	Ratio	Lower	Upper
198	100		
51	52.1	32.1	72.1
105	48.5	28.5	68.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

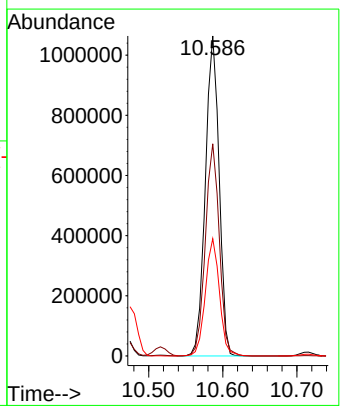
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

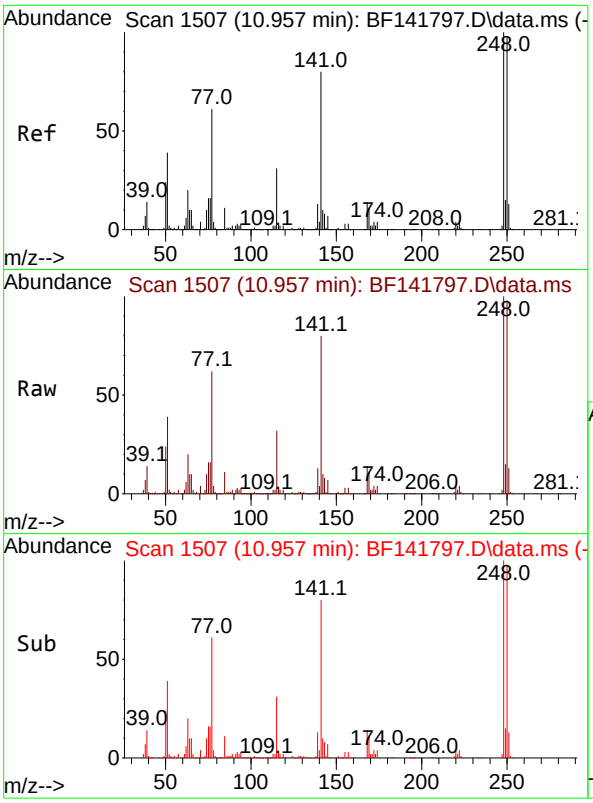


#66
n-Nitrosodiphenylamine
Concen: 40.485 ng
RT: 10.586 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

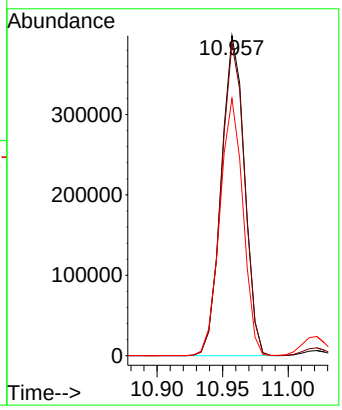




#67
4-Bromophenyl-phenylether
Concen: 40.722 ng
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:248 Resp: 49081

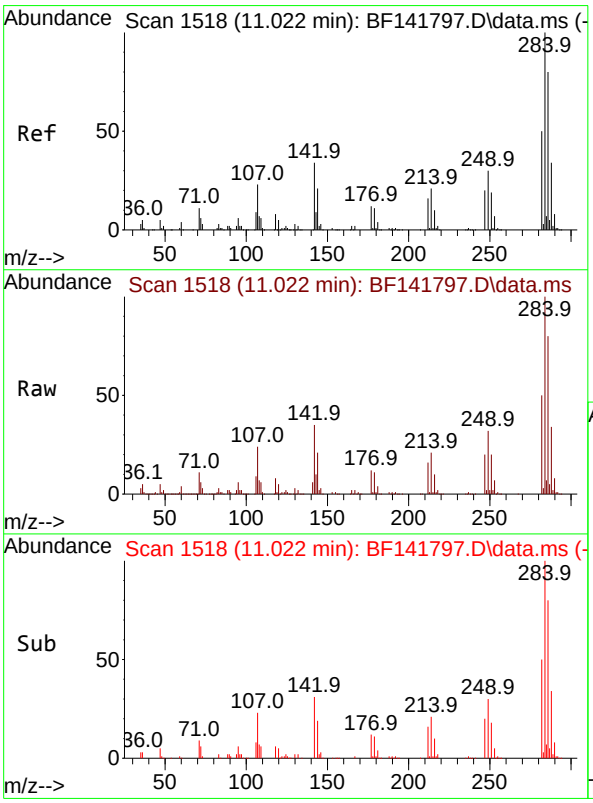
Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	80.4	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

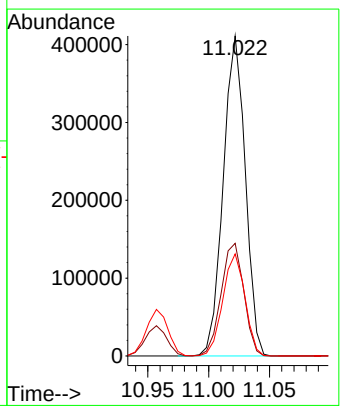
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

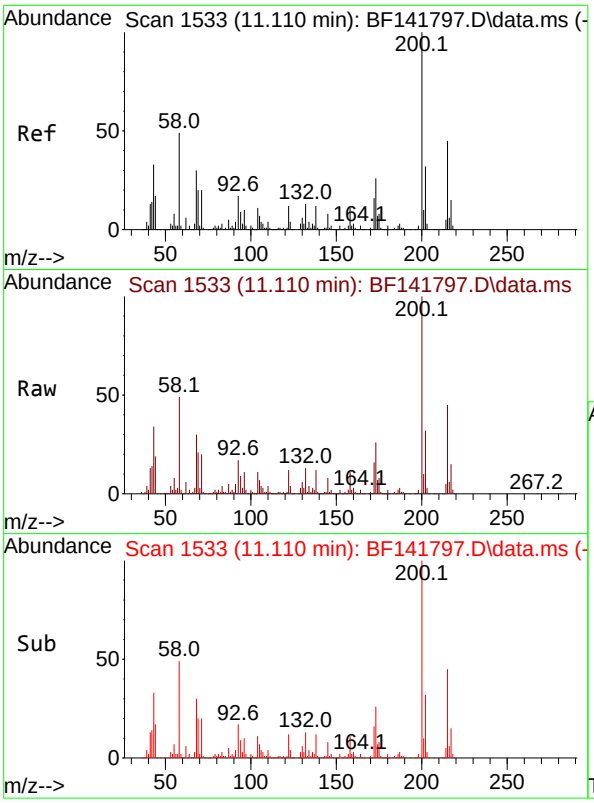


#68
Hexachlorobenzene
Concen: 40.721 ng
RT: 11.022 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

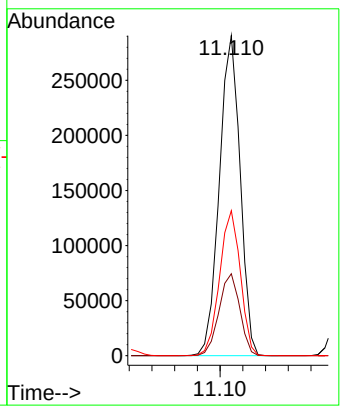




#69
Atrazine
Concen: 39.649 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:200 Resp: 36943

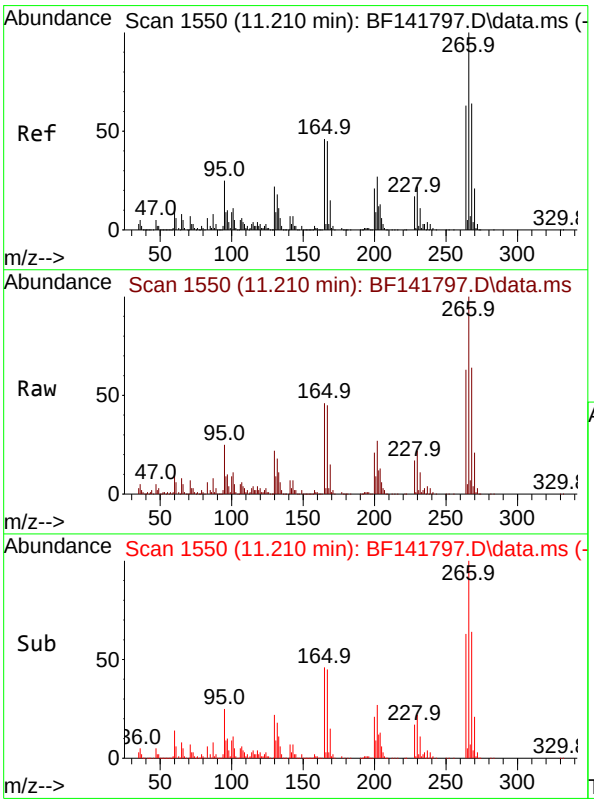
Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	45.3	25.3	65.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

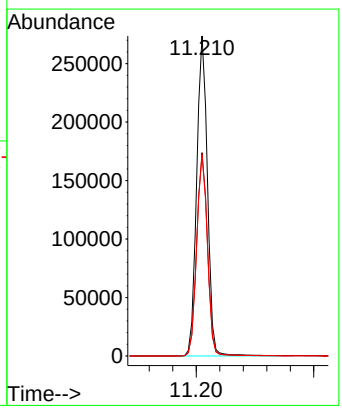
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

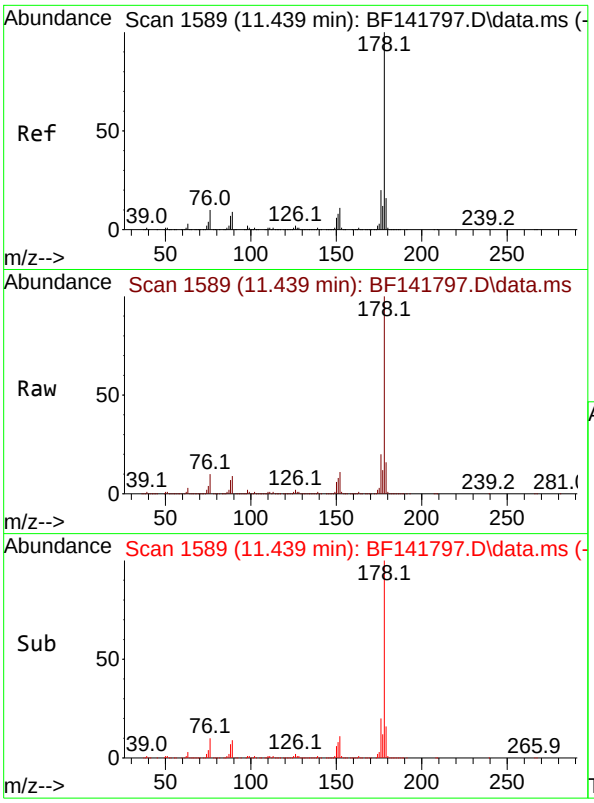


#70
Pentachlorophenol
Concen: 43.086 ng
RT: 11.210 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

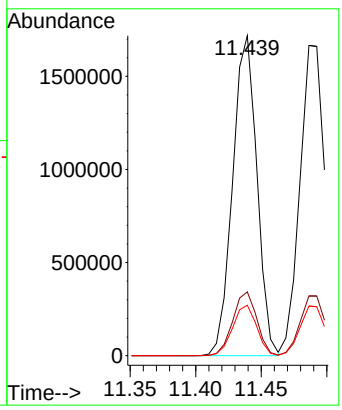




#71
Phenanthrene
Concen: 40.130 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:178 Resp: 221495

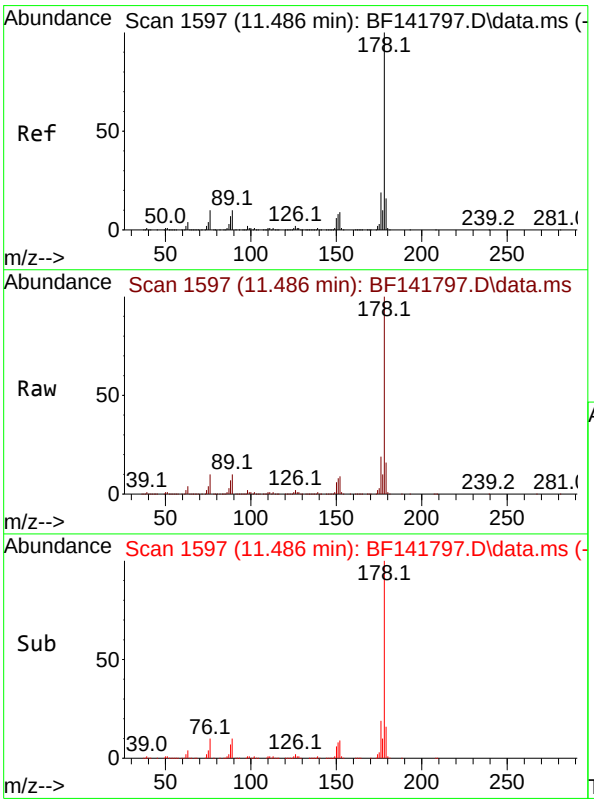
Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	15.8	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

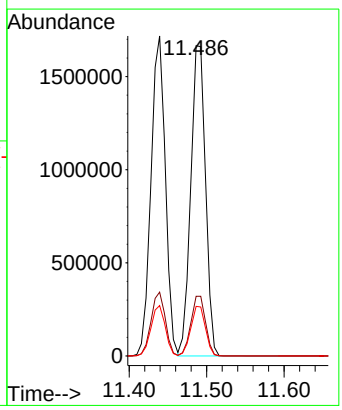
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

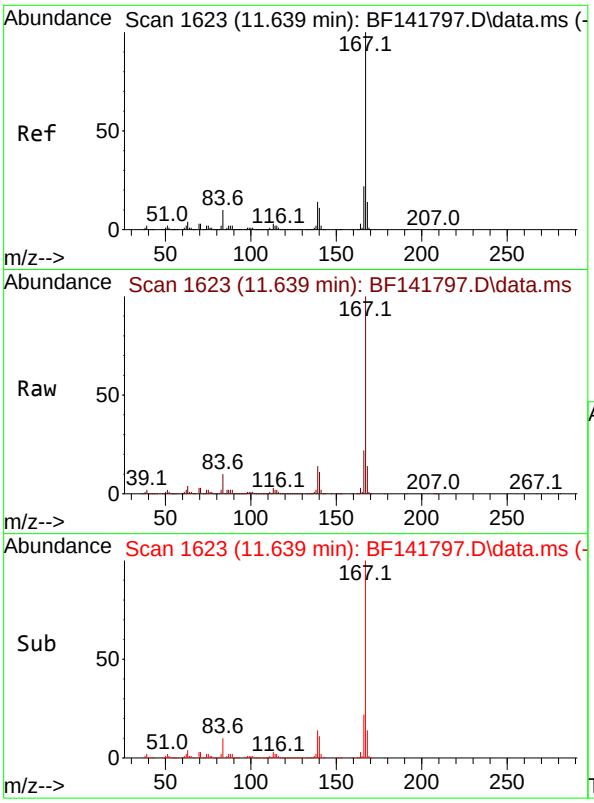


#72
Anthracene
Concen: 39.845 ng
RT: 11.486 min Scan# 1597
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

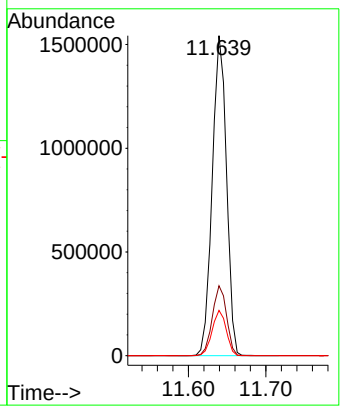




#73
Carbazole
Concen: 40.358 ng
RT: 11.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:167 Resp: 197149

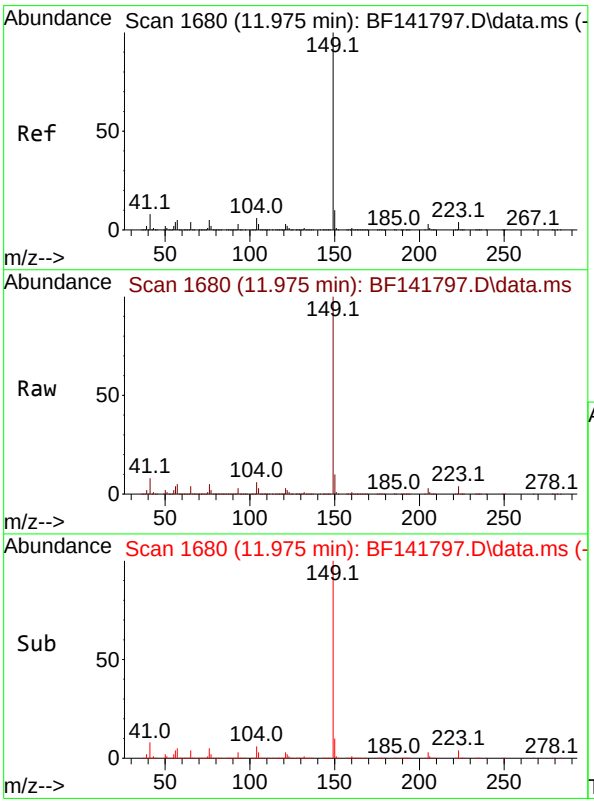
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	14.1	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

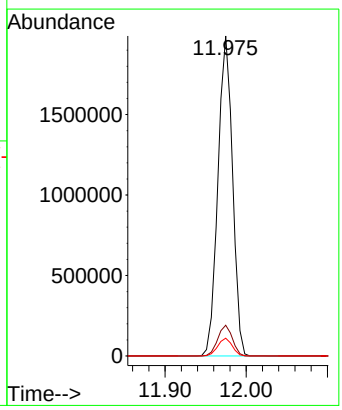
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

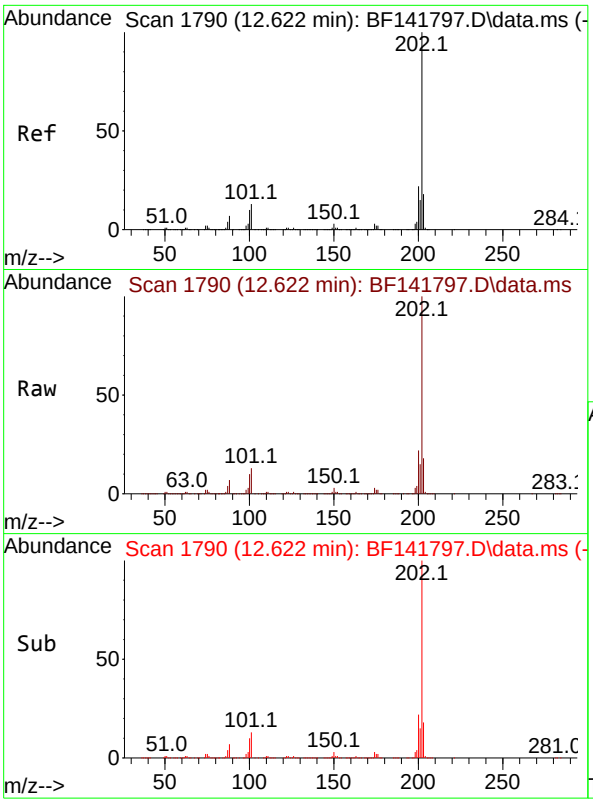


#74
Di-n-butylphthalate
Concen: 40.274 ng
RT: 11.975 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

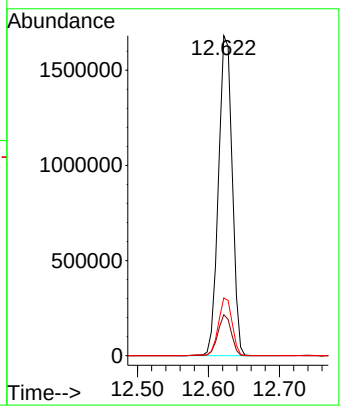




#75
Fluoranthene
Concen: 39.753 ng
RT: 12.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:202 Resp: 224828

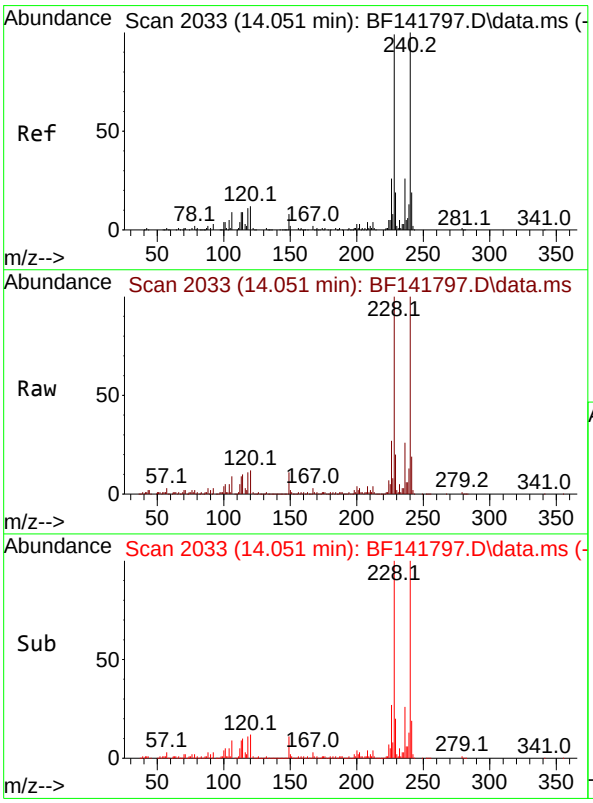
Ion	Ratio	Lower	Upper
202	100		
101	12.8	0.0	32.8
203	18.0	0.0	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

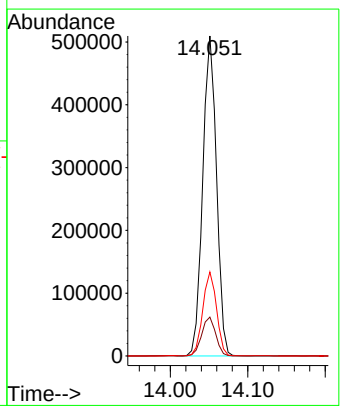
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

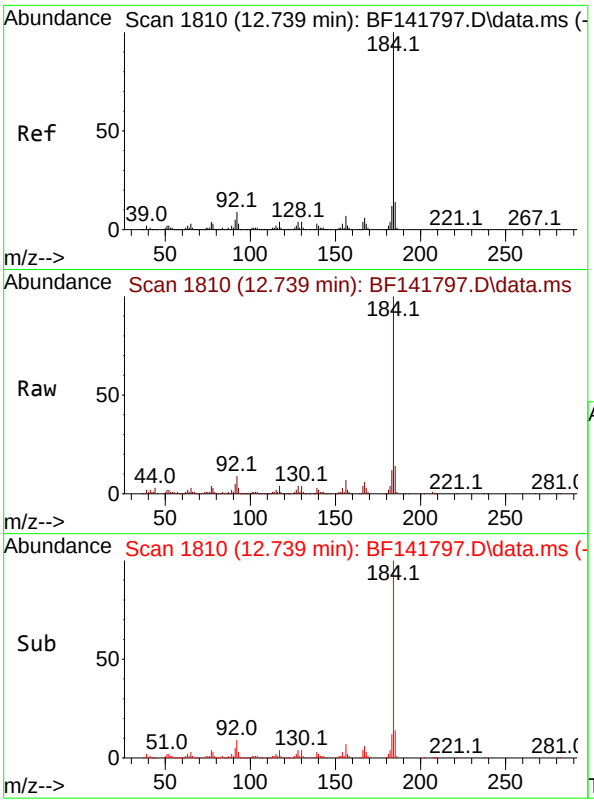


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

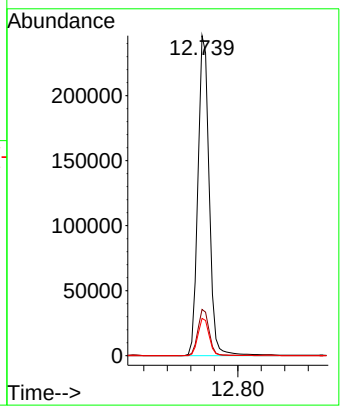




#77
Benzidine
Concen: 41.235 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:184 Resp: 32660

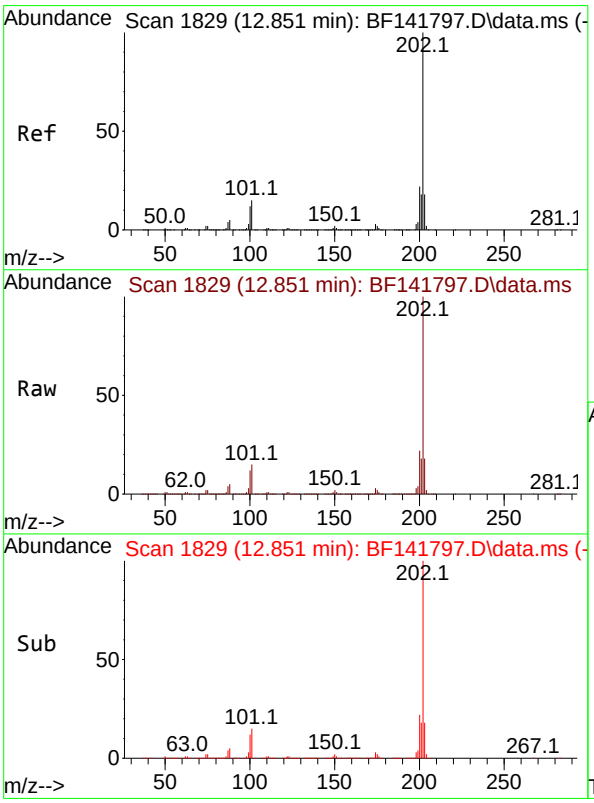
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	11.7	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

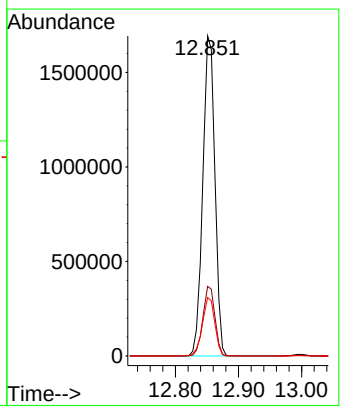
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

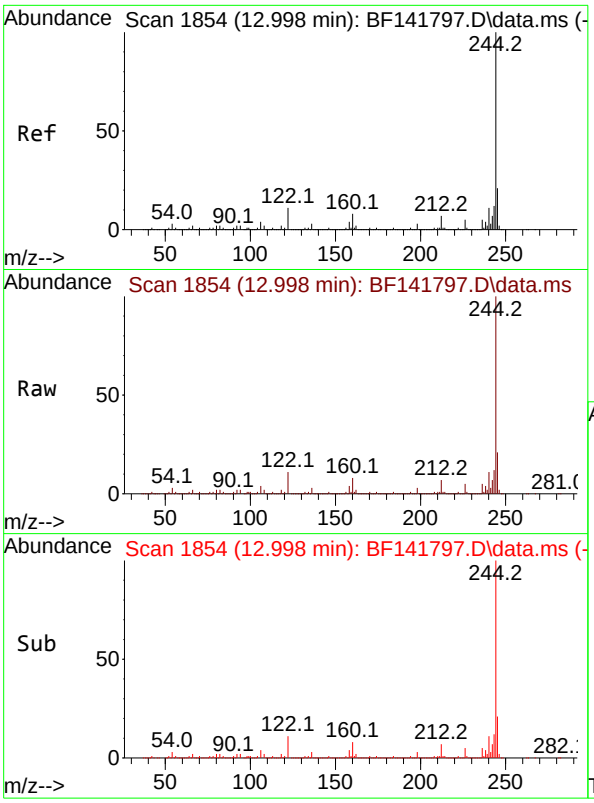


#78
Pyrene
Concen: 41.470 ng
RT: 12.851 min Scan# 1829
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

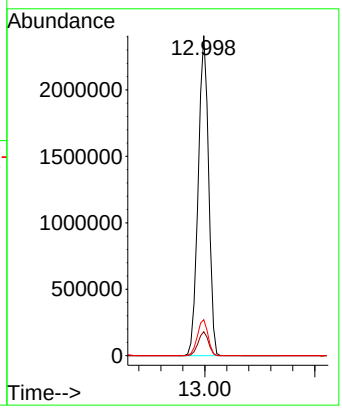




#79
Terphenyl-d14
Concen: 81.511 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:244 Resp: 317044

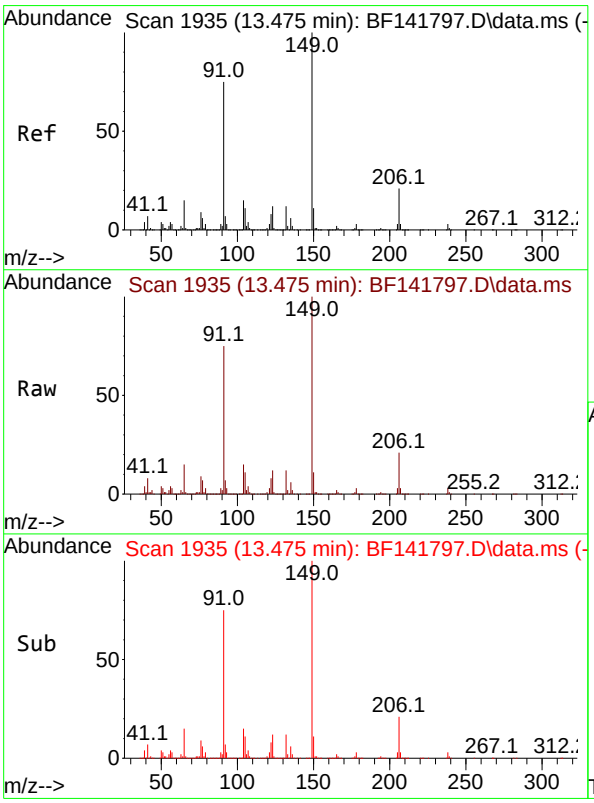
Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	11.3	9.0	13.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

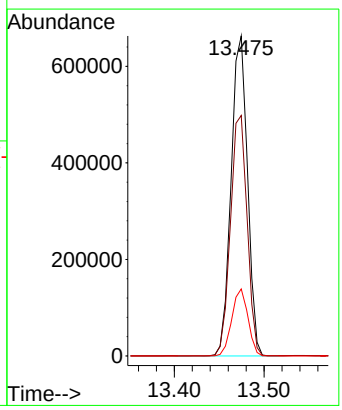
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

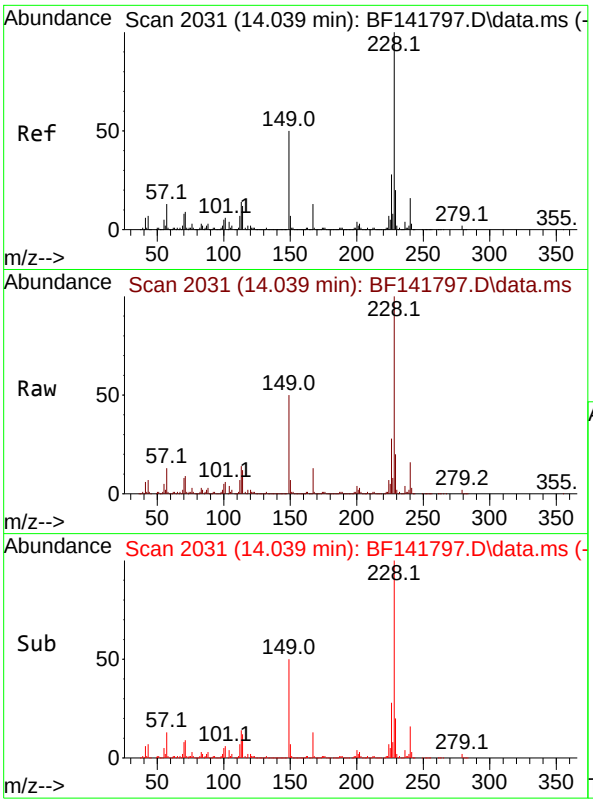


#80
Butylbenzylphthalate
Concen: 42.452 ng
RT: 13.475 min Scan# 1935
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

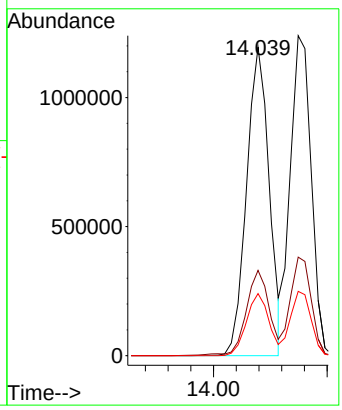




#81
Benzo(a)anthracene
Concen: 39.742 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 165193

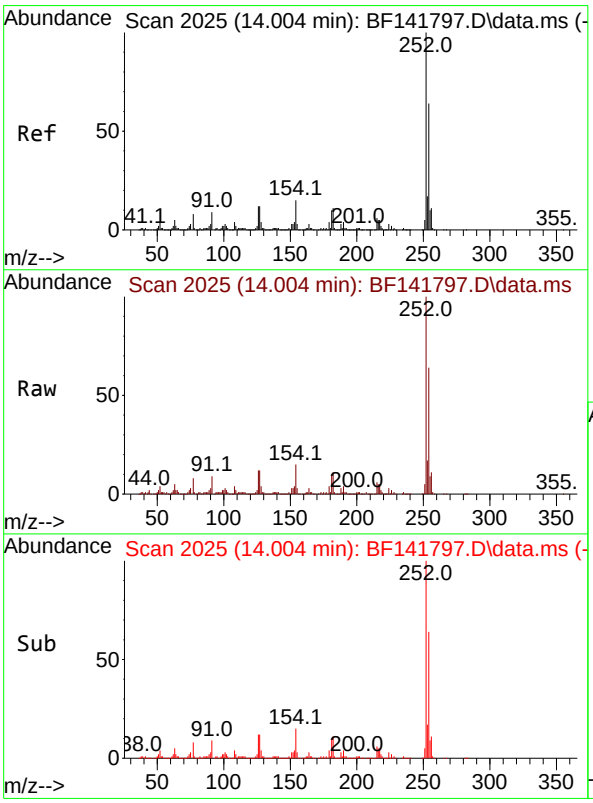
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.1	33.1
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

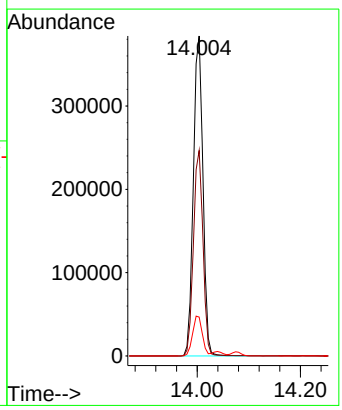
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

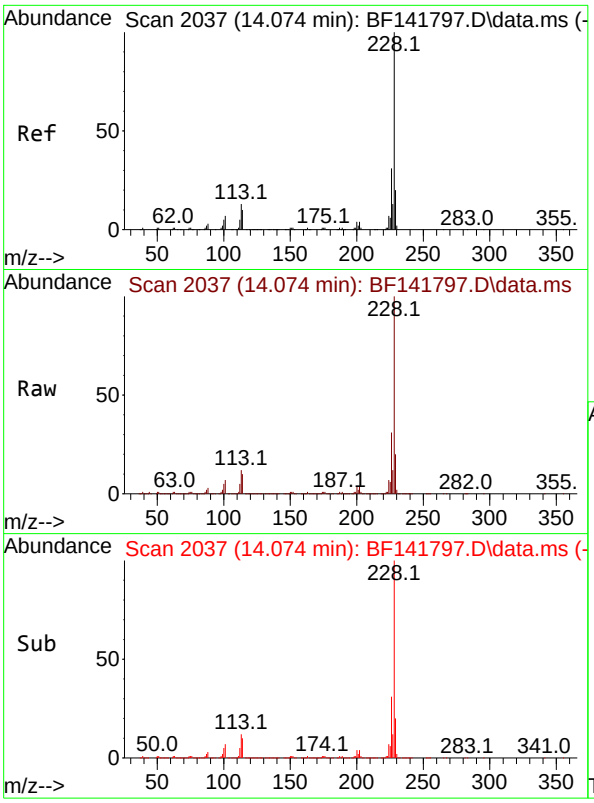


#82
3,3'-Dichlorobenzidine
Concen: 41.467 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

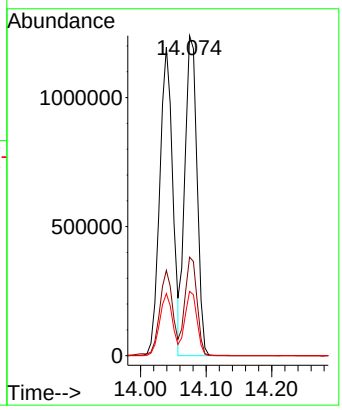




#83
Chrysene
Concen: 41.543 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:228 Resp: 159181

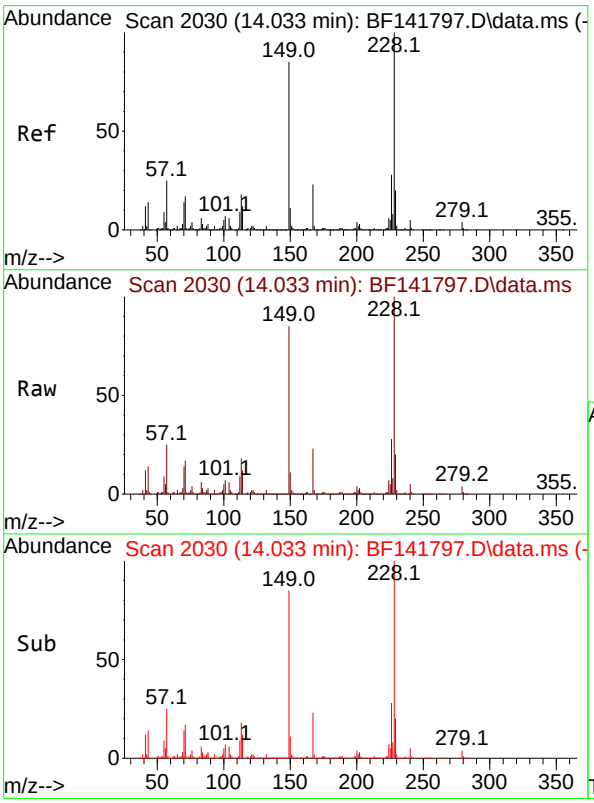
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

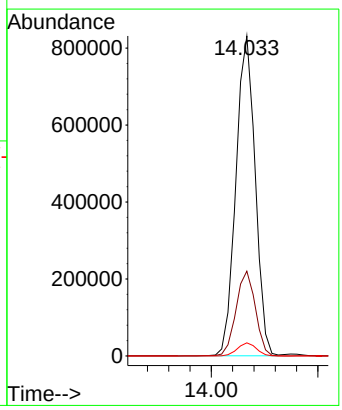
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

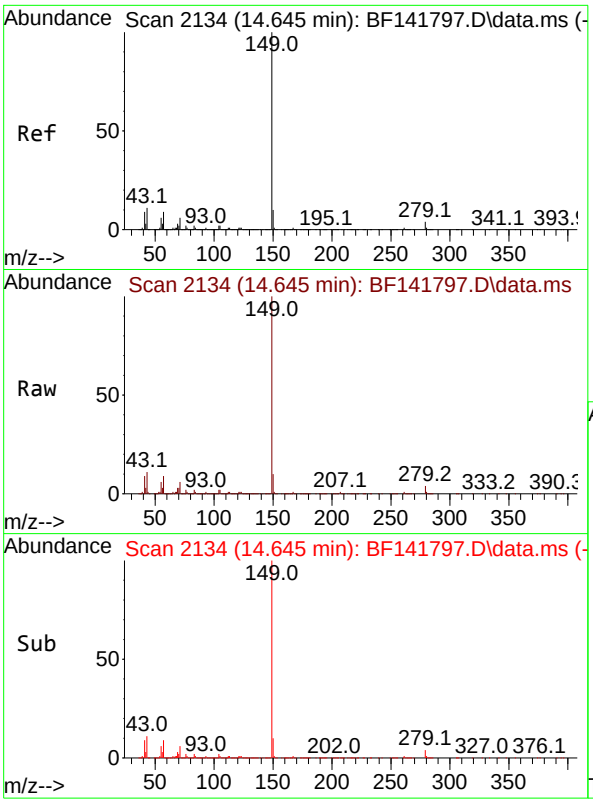


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.458 ng
RT: 14.033 min Scan# 2030
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

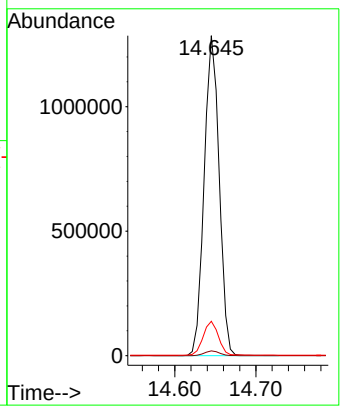




#85
Di-n-octyl phthalate
Concen: 44.568 ng
RT: 14.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:149 Resp: 164490

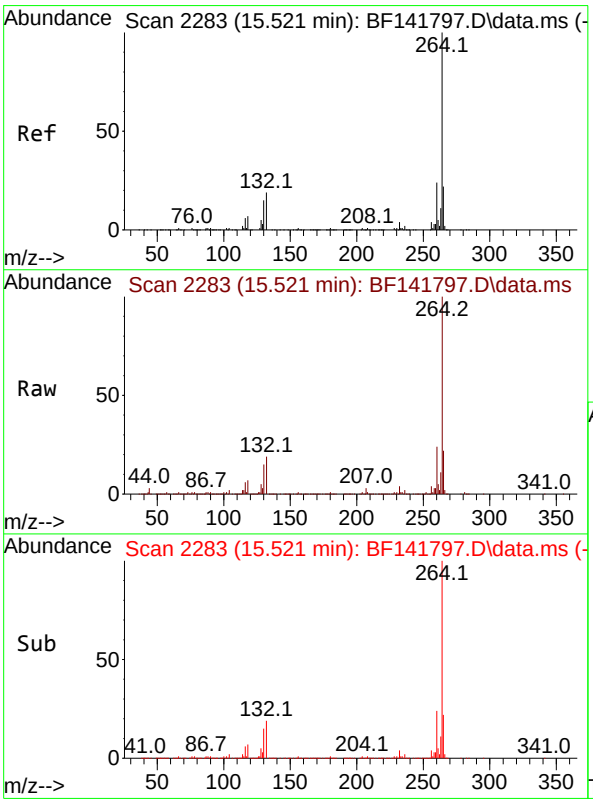
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.7	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

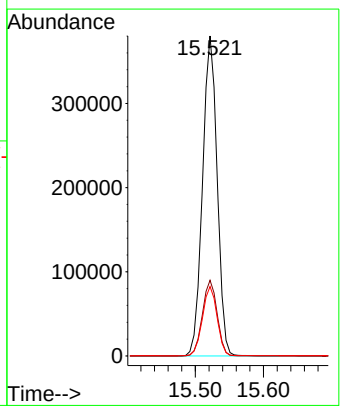
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

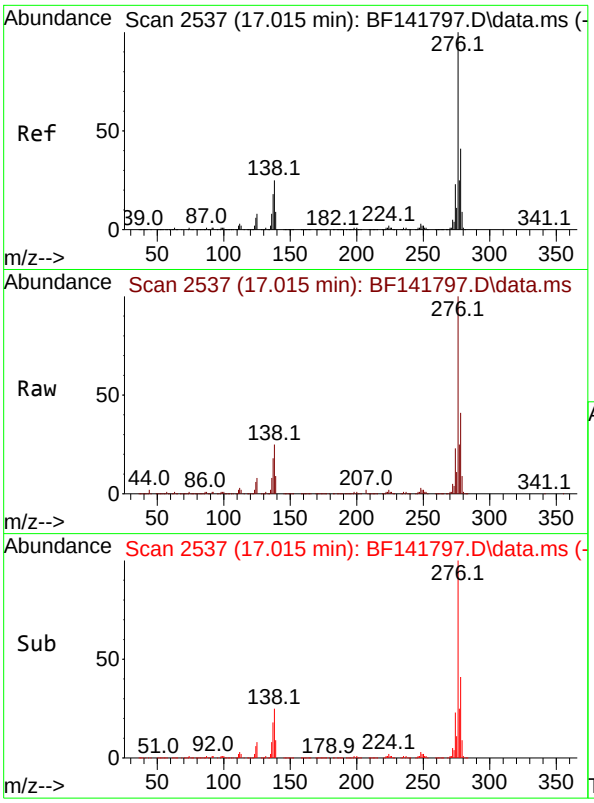


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

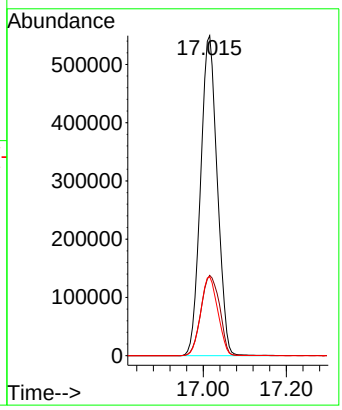




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.264 ng
RT: 17.015 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:276 Resp: 152657

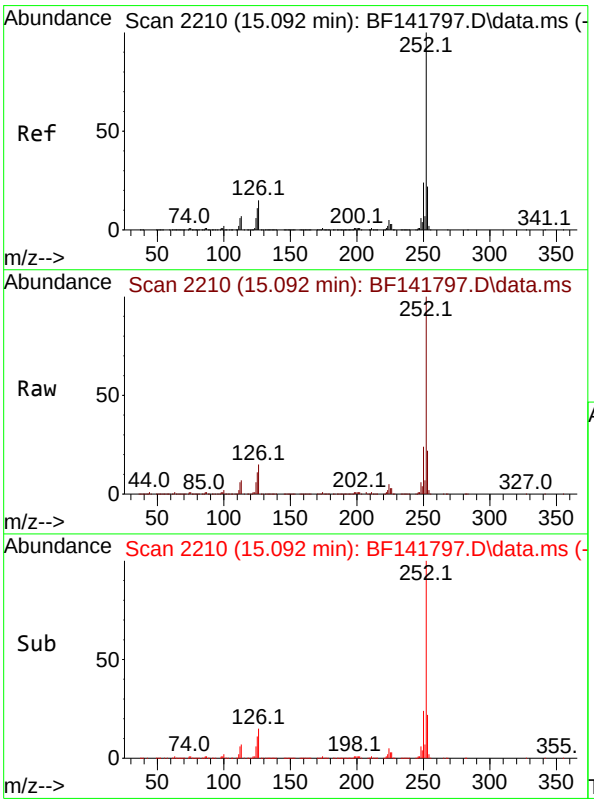
Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.5	33.7
277	25.4	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

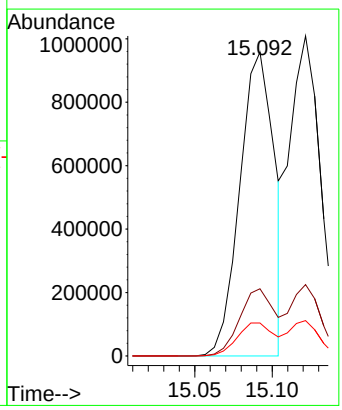
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

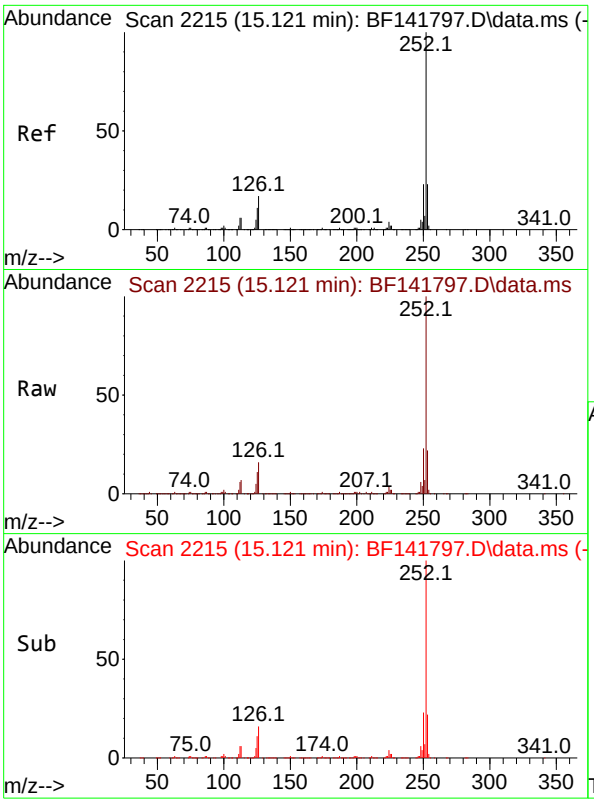


#88
Benzo(b)fluoranthene
Concen: 38.353 ng
RT: 15.092 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

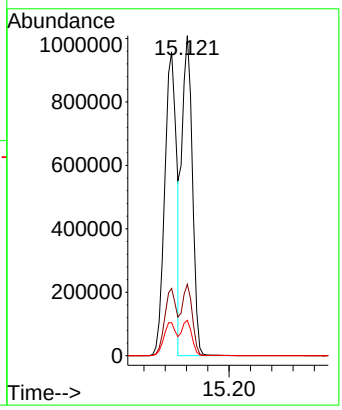




#89
Benzo(k)fluoranthene
Concen: 41.943 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:252 Resp: 137747

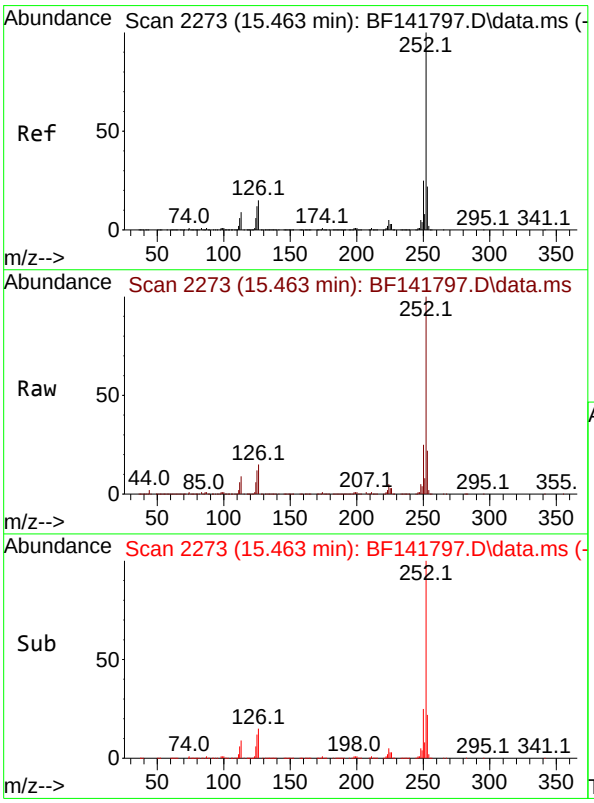
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

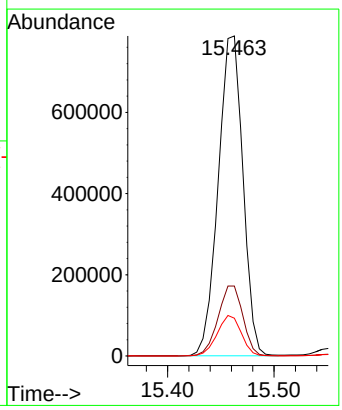
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

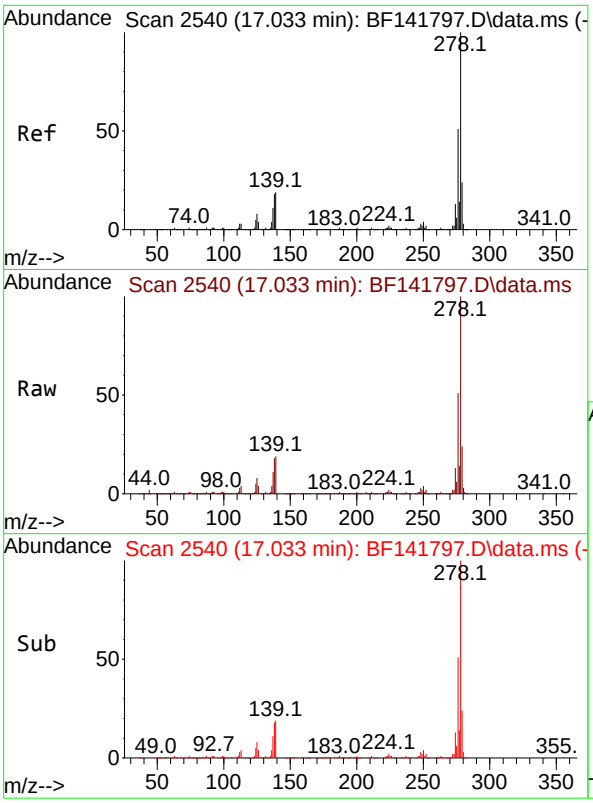


#90
Benzo(a)pyrene
Concen: 40.981 ng
RT: 15.463 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

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

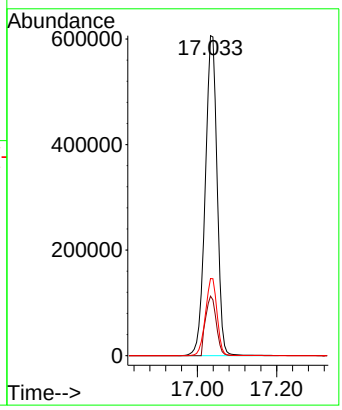




#91
Dibenzo(a,h)anthracene
Concen: 42.664 ng
RT: 17.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141797.D
Acq: 27 Feb 2025 17:16

Tgt Ion:278 Resp: 125786

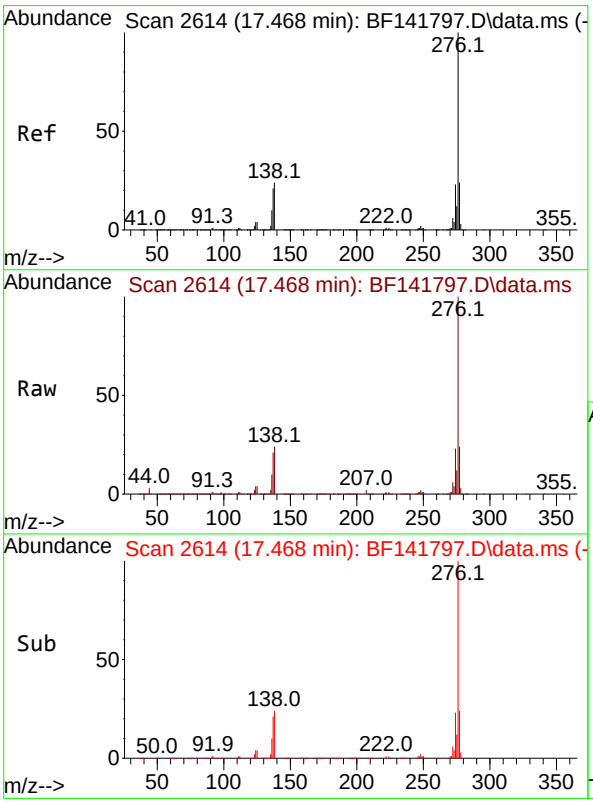
Ion	Ratio	Lower	Upper
278	100		
139	18.6	14.9	22.3
279	24.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

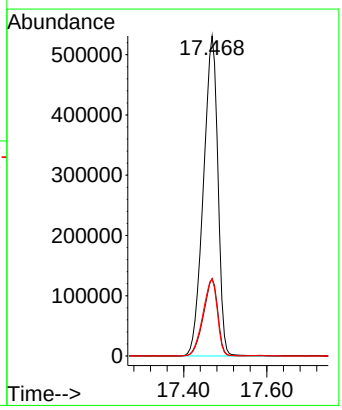
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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



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

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

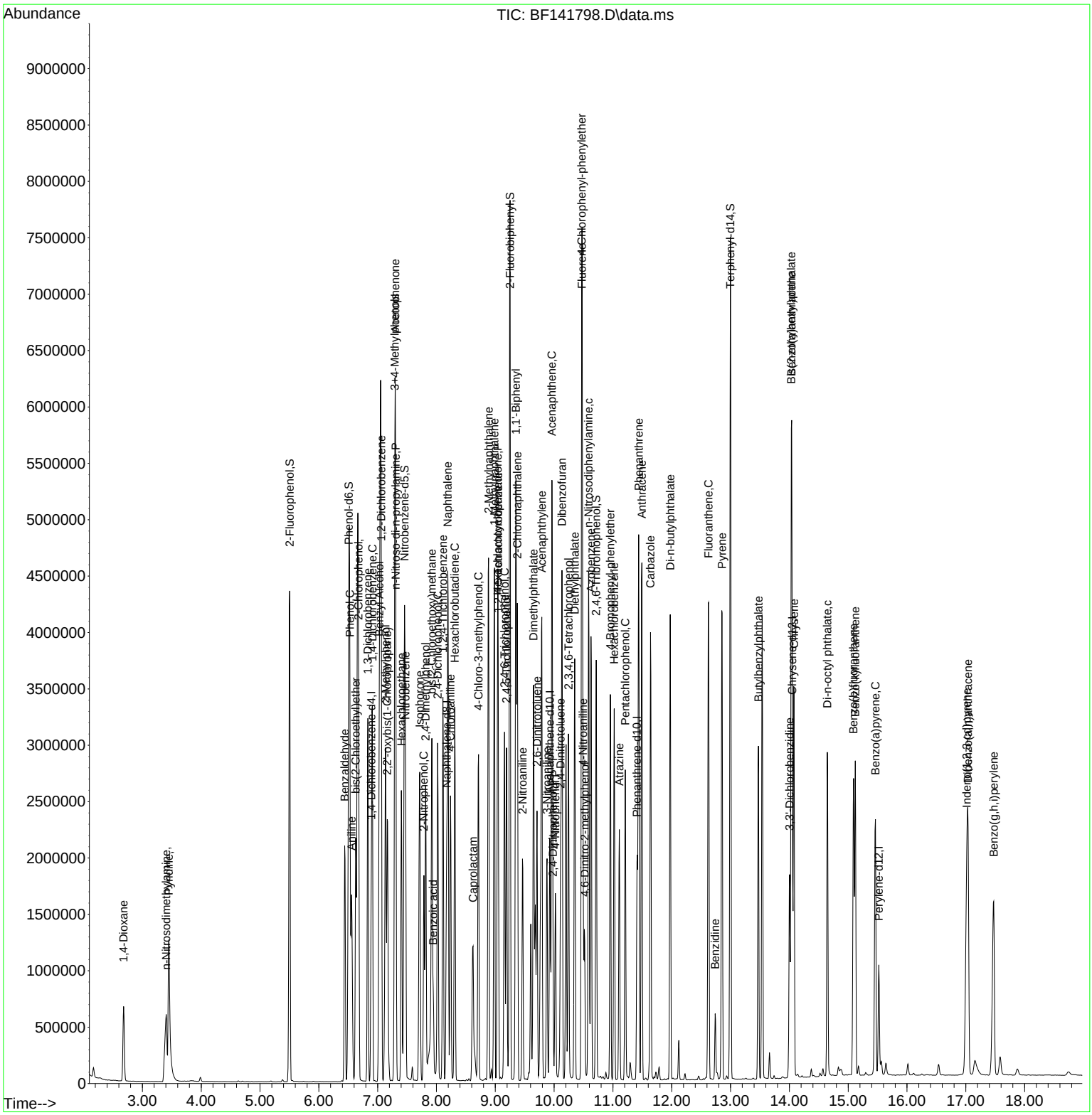
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	574978	49.213	ng		100
46) 1,1'-Biphenyl	9.351	154	2234592	46.420	ng		100
47) 2-Chloronaphthalene	9.375	162	1672555	47.075	ng		99
48) 2-Nitroaniline	9.463	65	469075	48.211	ng		98
49) Acenaphthylene	9.792	152	2466104	46.294	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

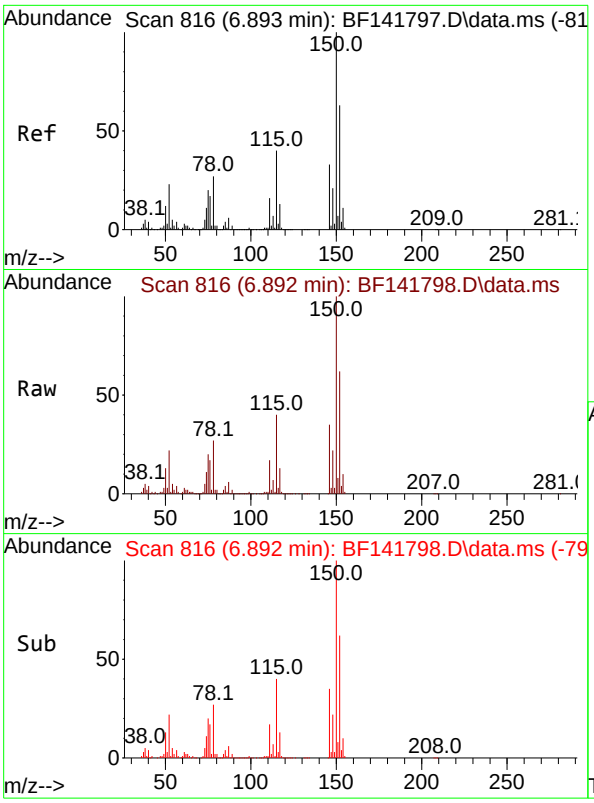
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



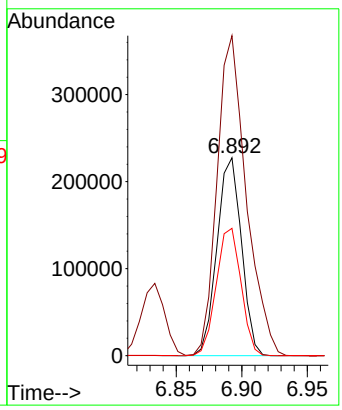


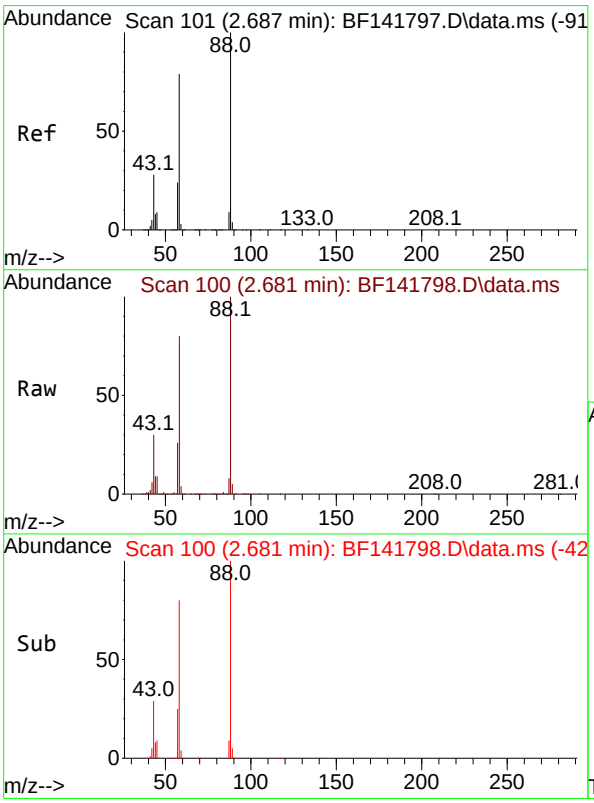
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

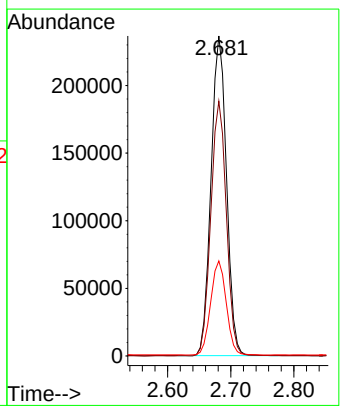


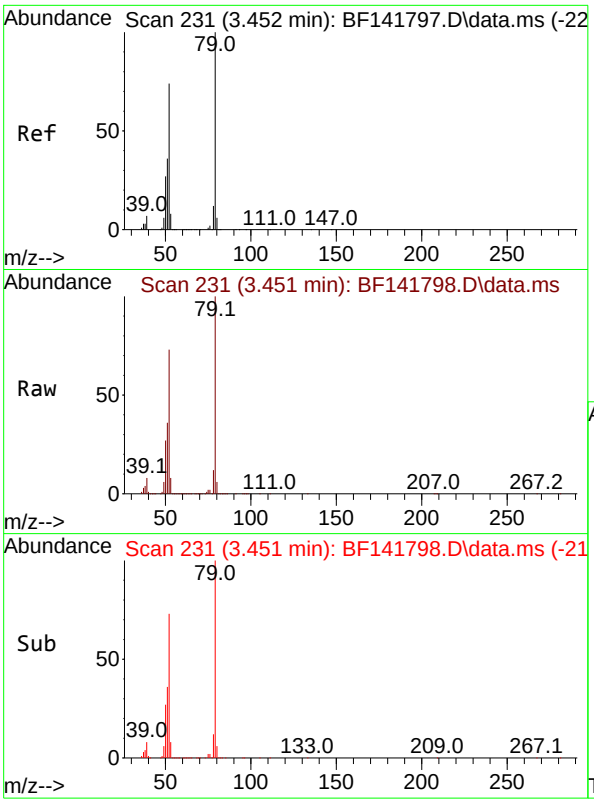


#2
1,4-Dioxane
Concen: 47.937 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



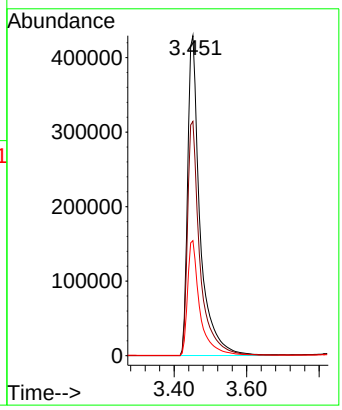


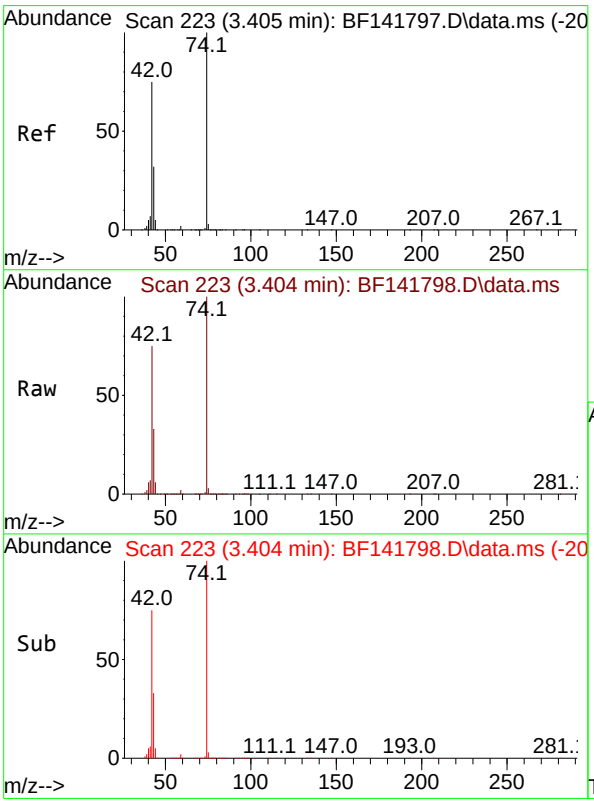
#3
Pyridine
Concen: 48.805 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

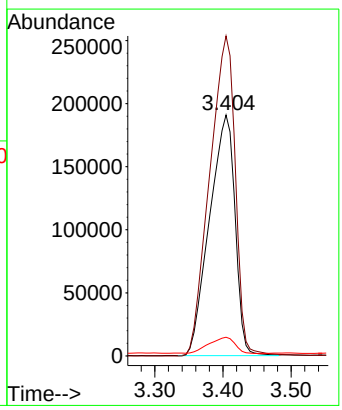


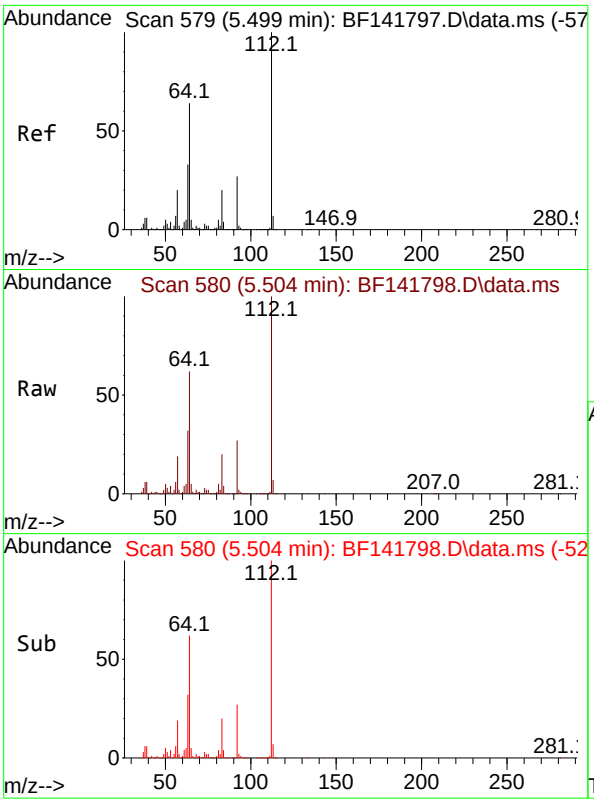


#4
n-Nitrosodimethylamine
Concen: 49.541 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



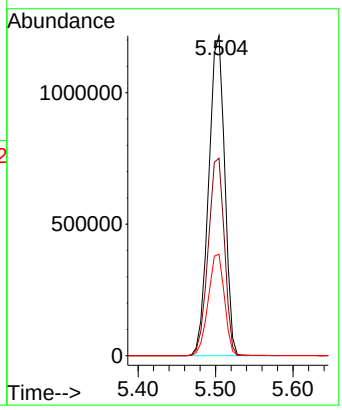


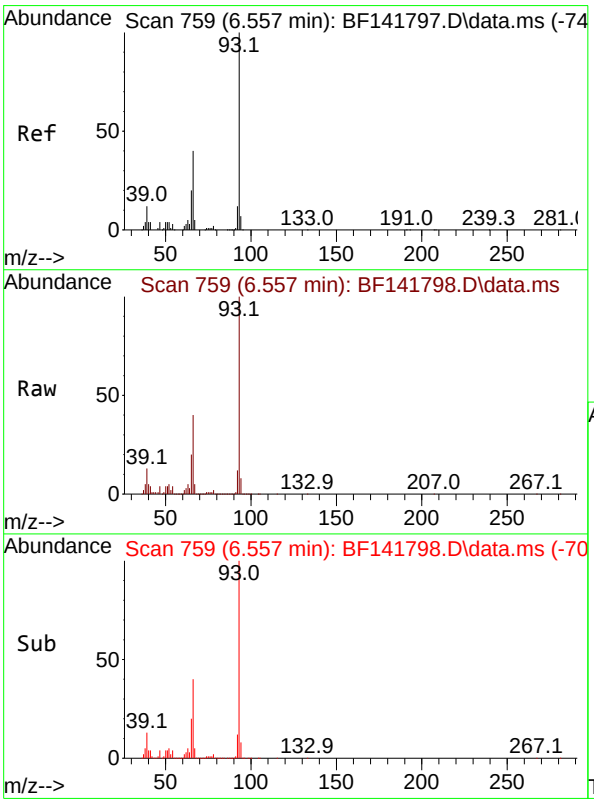
#5
2-Fluorophenol
Concen: 94.593 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

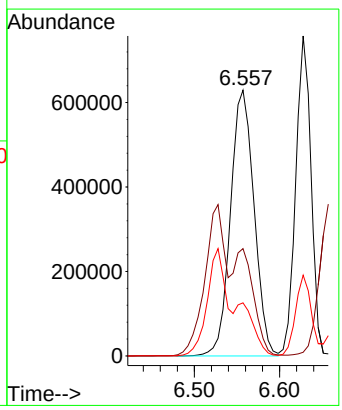


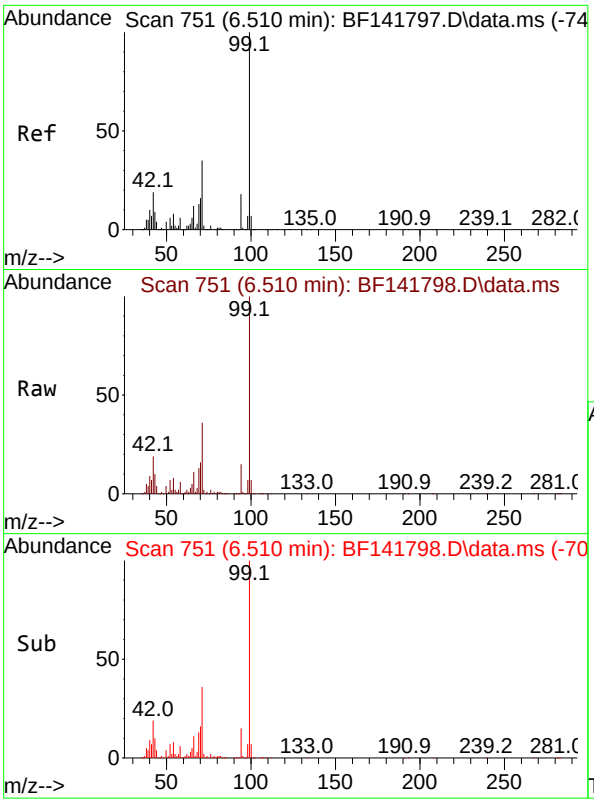


#6
Aniline
Concen: 48.702 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



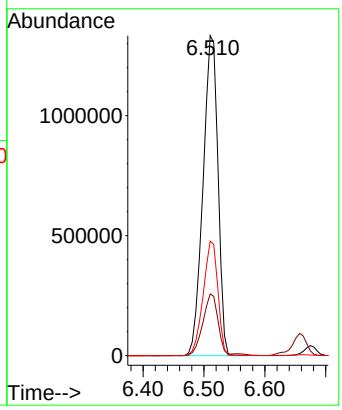


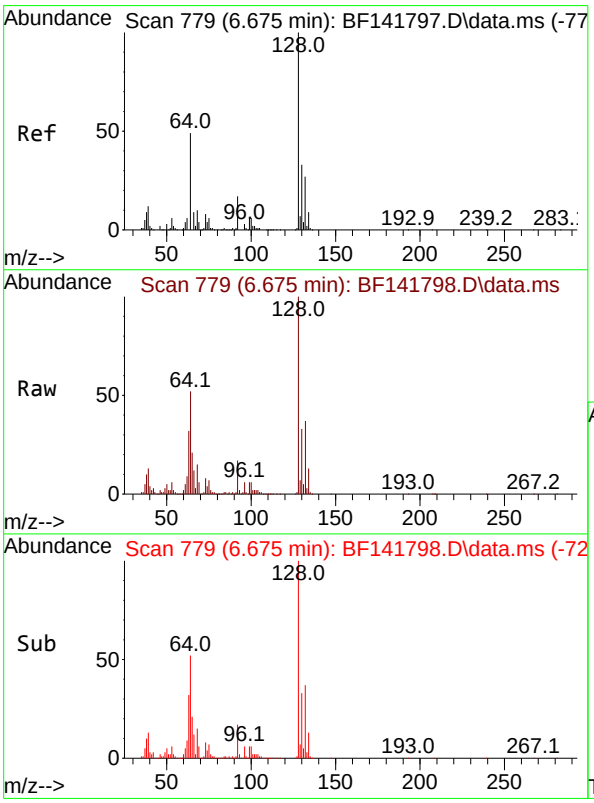
#7
Phenol-d6
Concen: 94.557 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

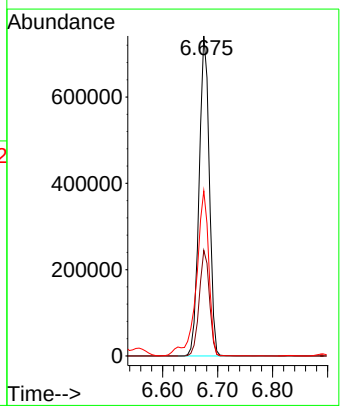


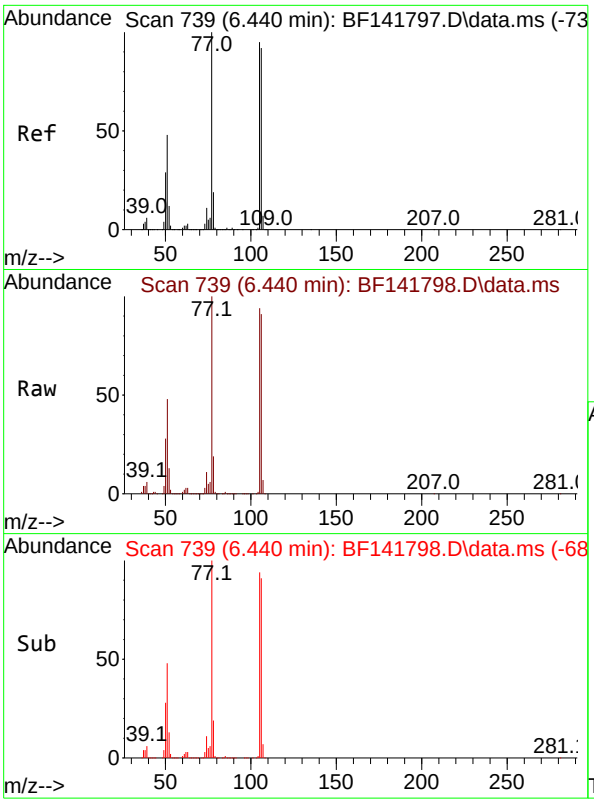


#8
2-Chlorophenol
Concen: 47.940 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



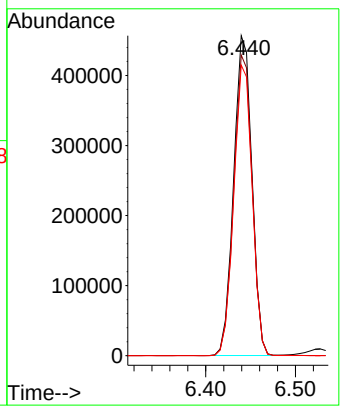


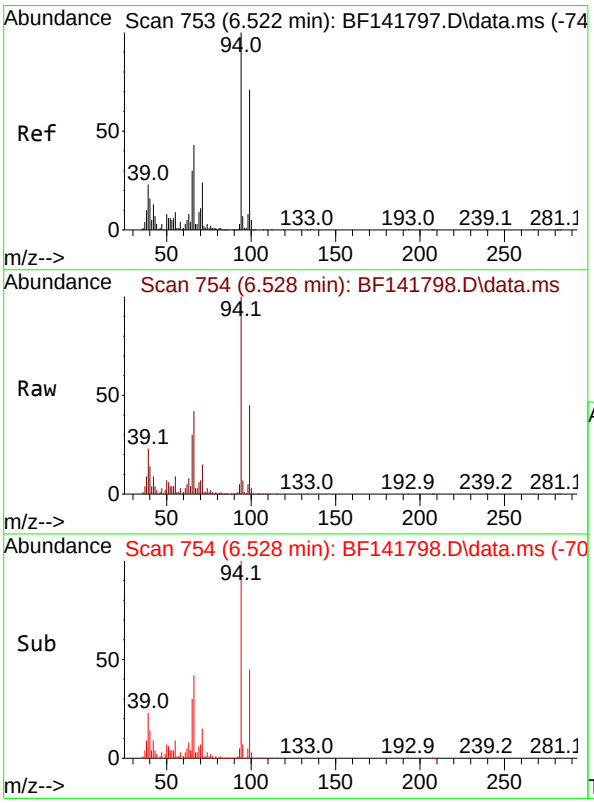
#9
Benzaldehyde
Concen: 46.113 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

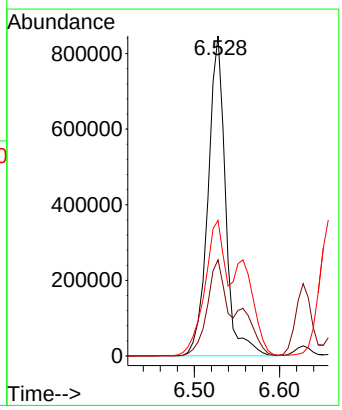


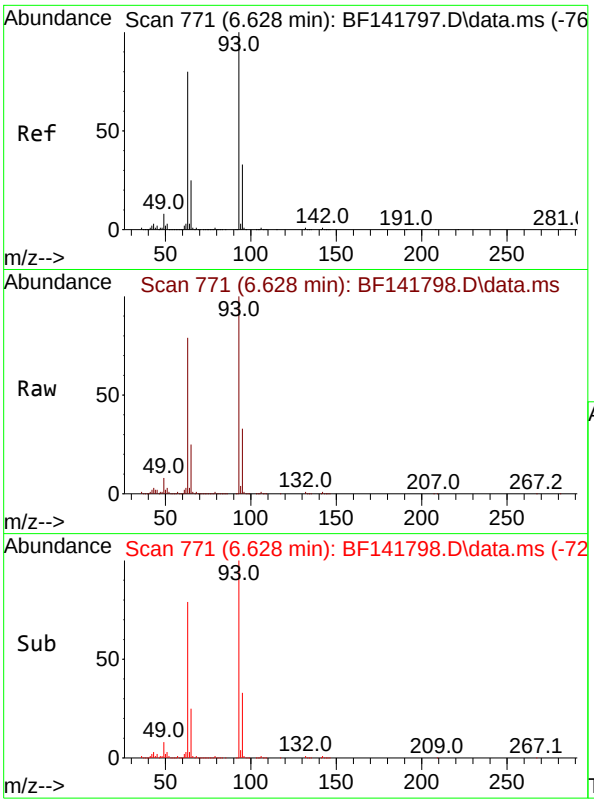


#10
Phenol
Concen: 47.257 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



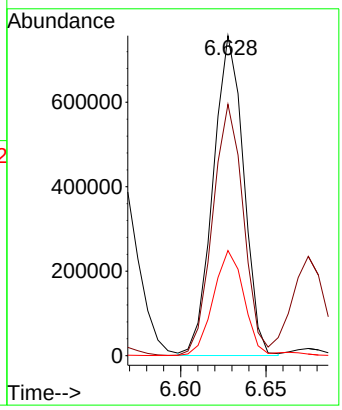


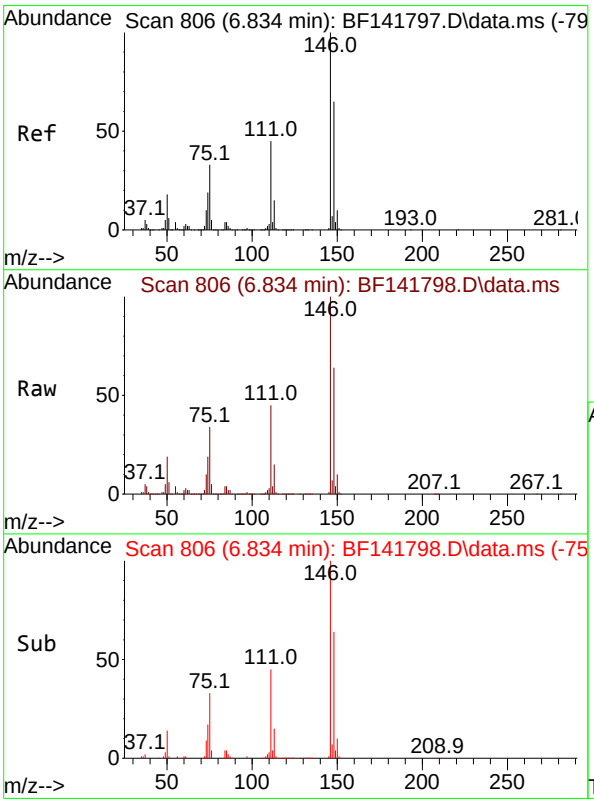
#11
bis(2-Chloroethyl)ether
Concen: 48.169 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

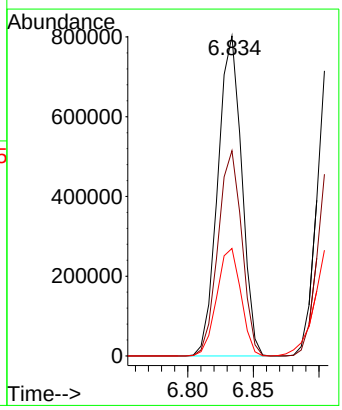


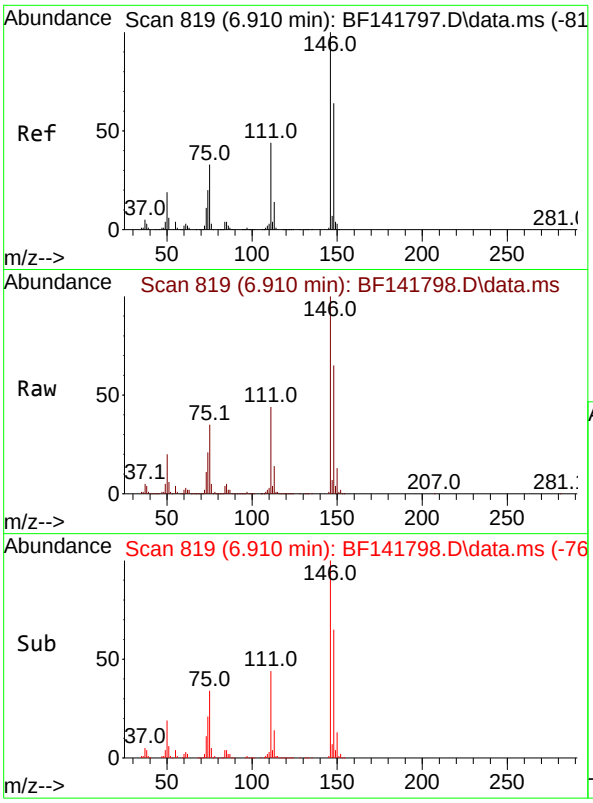


#12
1,3-Dichlorobenzene
Concen: 47.489 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



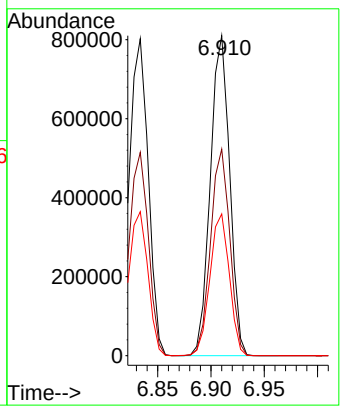


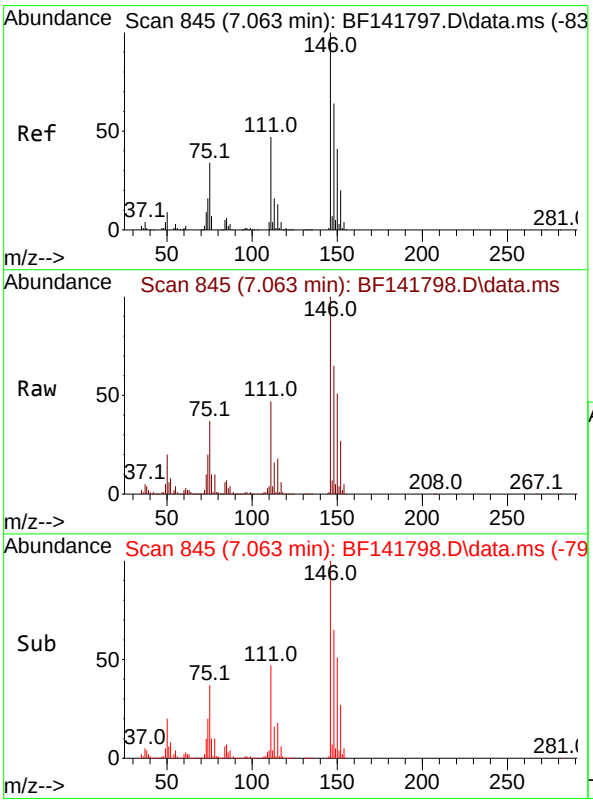
#13
1,4-Dichlorobenzene
Concen: 47.531 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

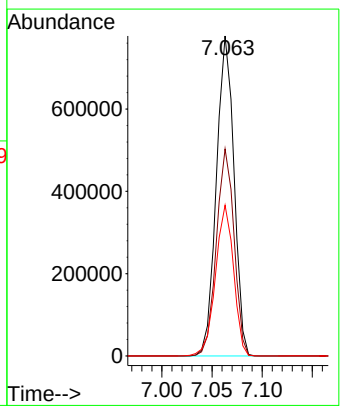


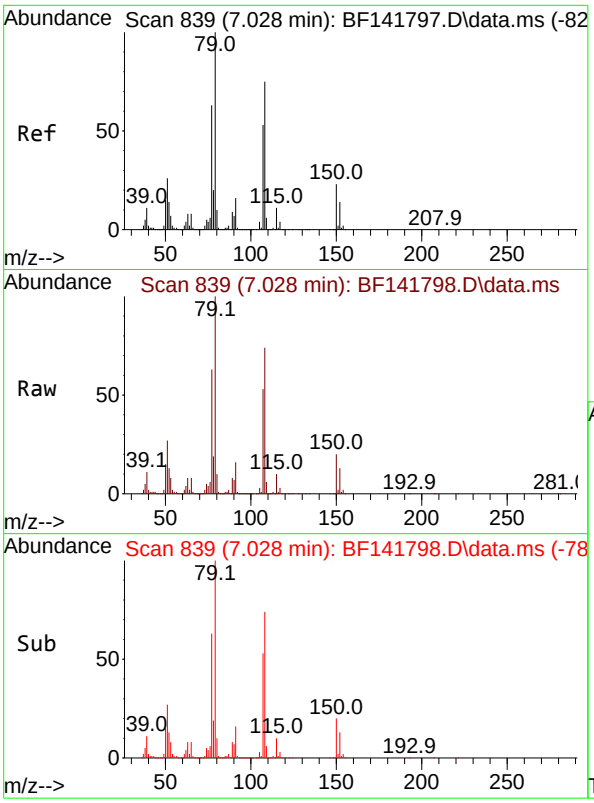


#14
1,2-Dichlorobenzene
Concen: 47.090 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



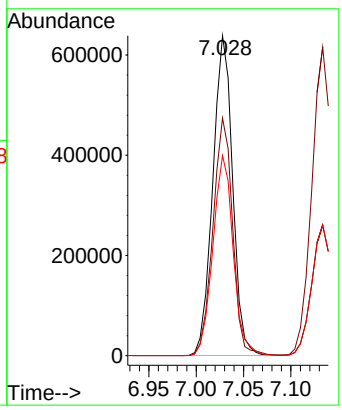


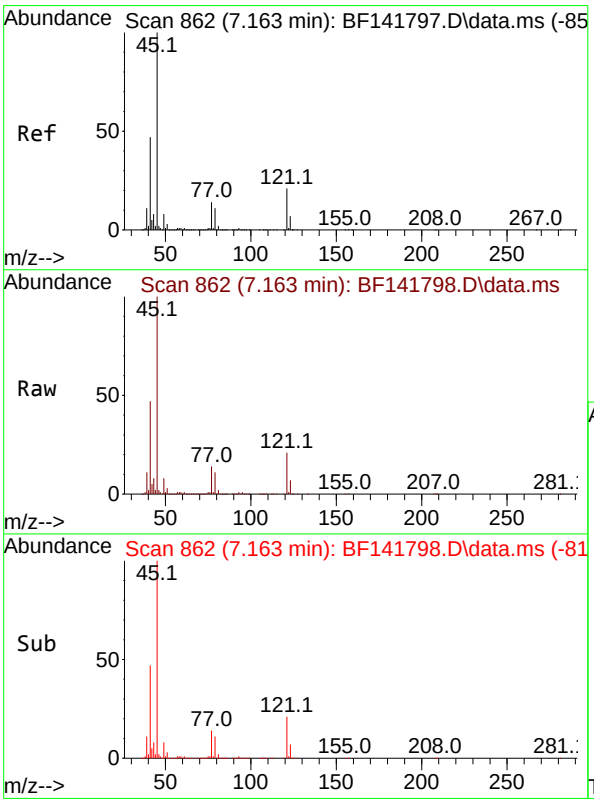
#15
Benzyl Alcohol
Concen: 48.272 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

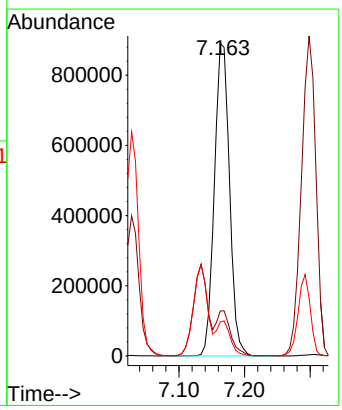


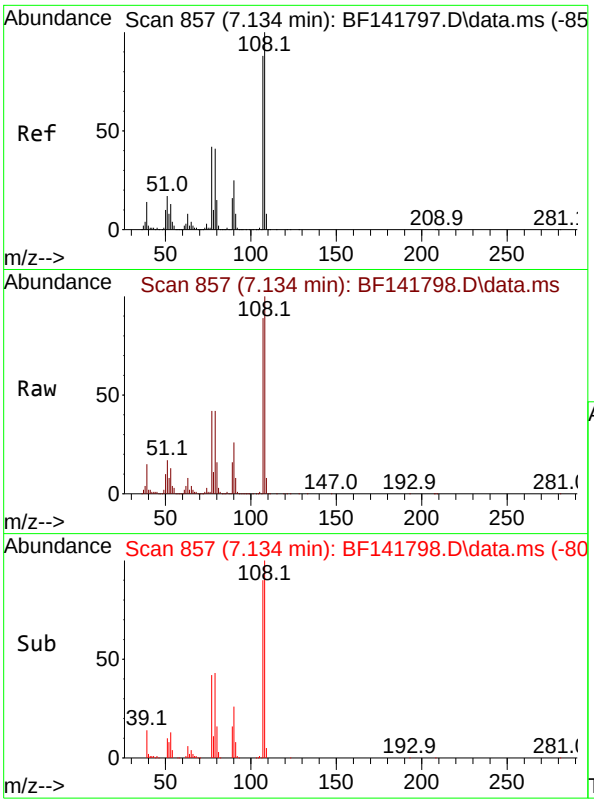


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.854 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



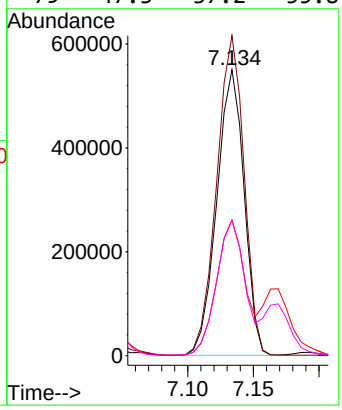


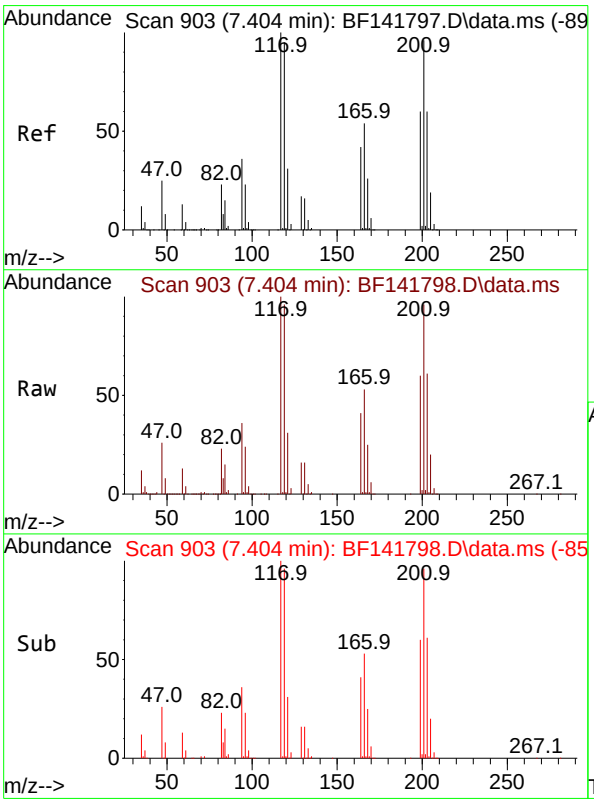
#17
2-Methylphenol
Concen: 48.240 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

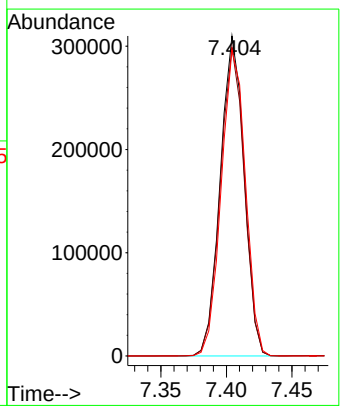


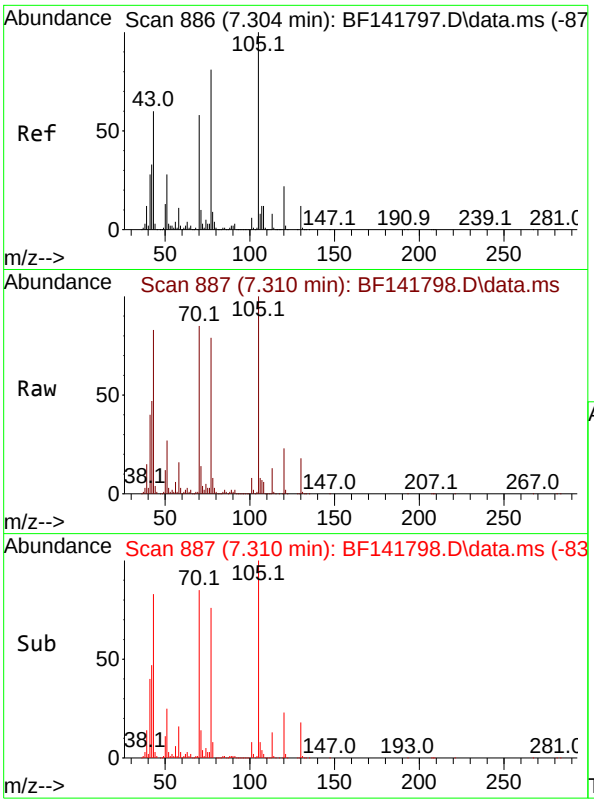


#18
Hexachloroethane
Concen: 48.741 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



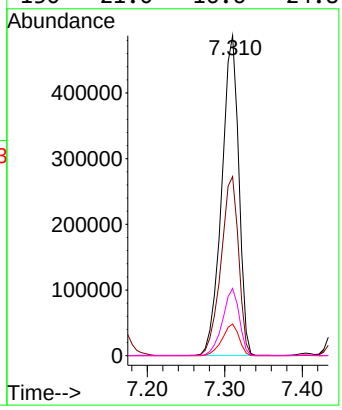


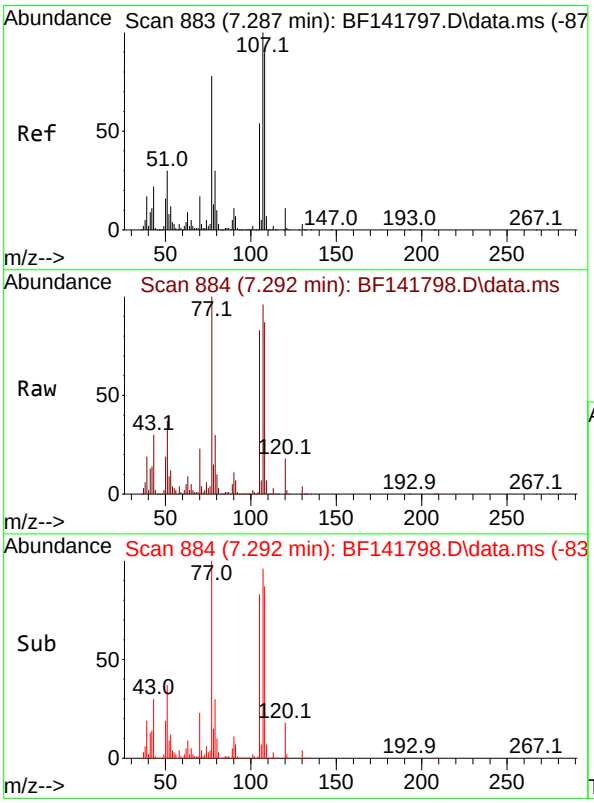
#19
n-Nitroso-di-n-propylamine
Concen: 47.090 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

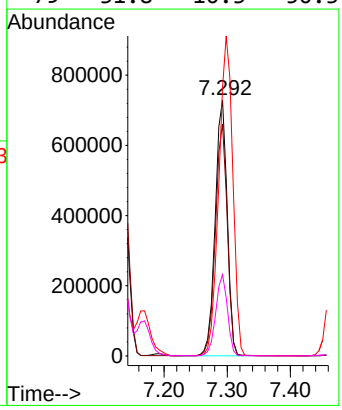


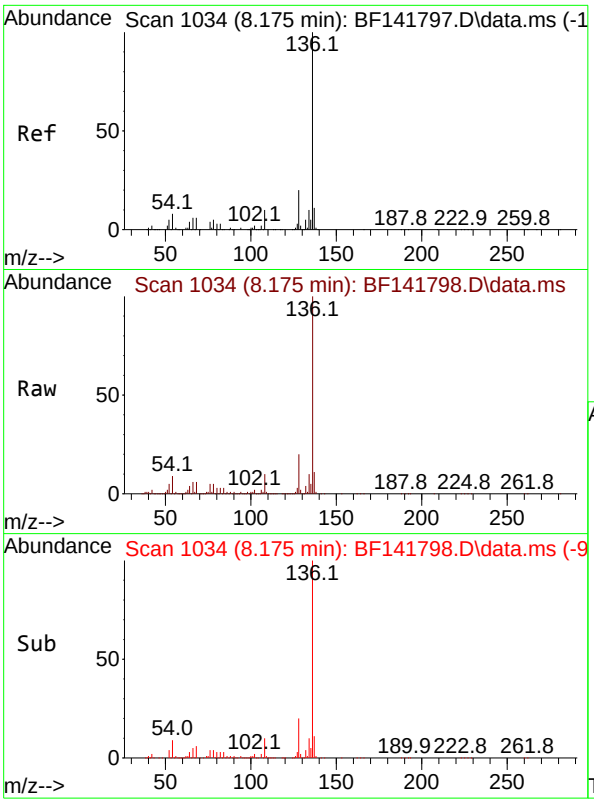


#20
3+4-Methylphenols
Concen: 46.825 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



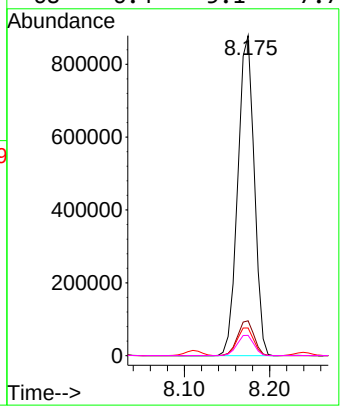


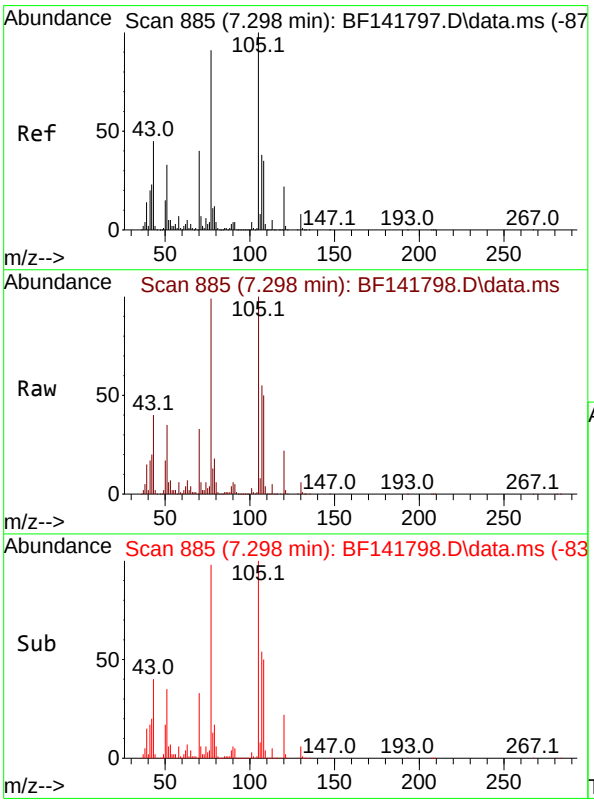
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

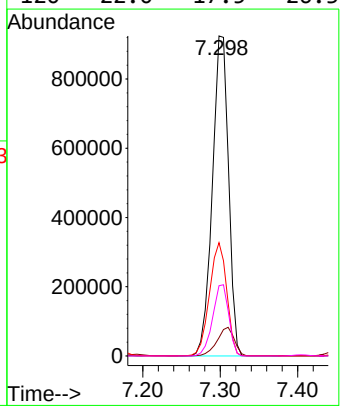


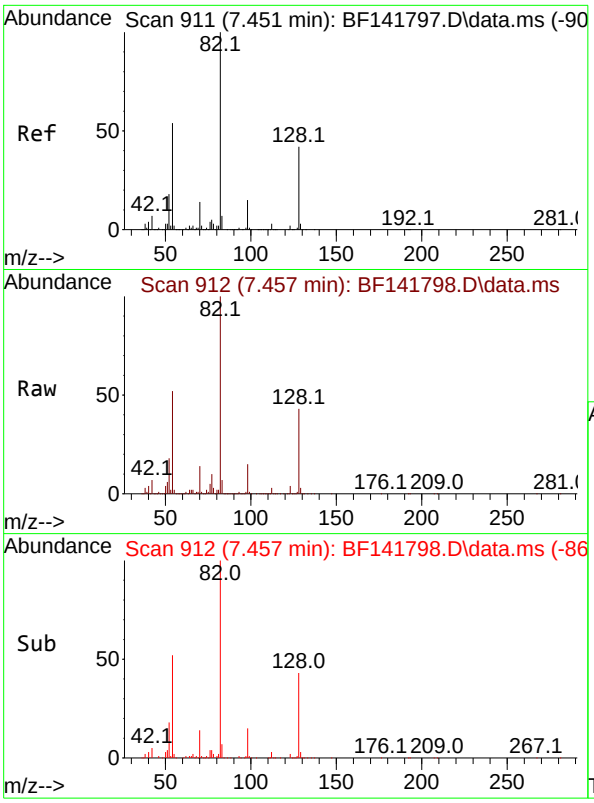


#22
Acetophenone
Concen: 46.798 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



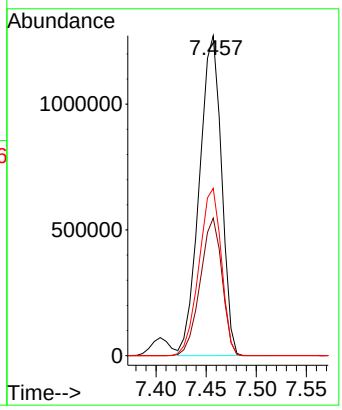


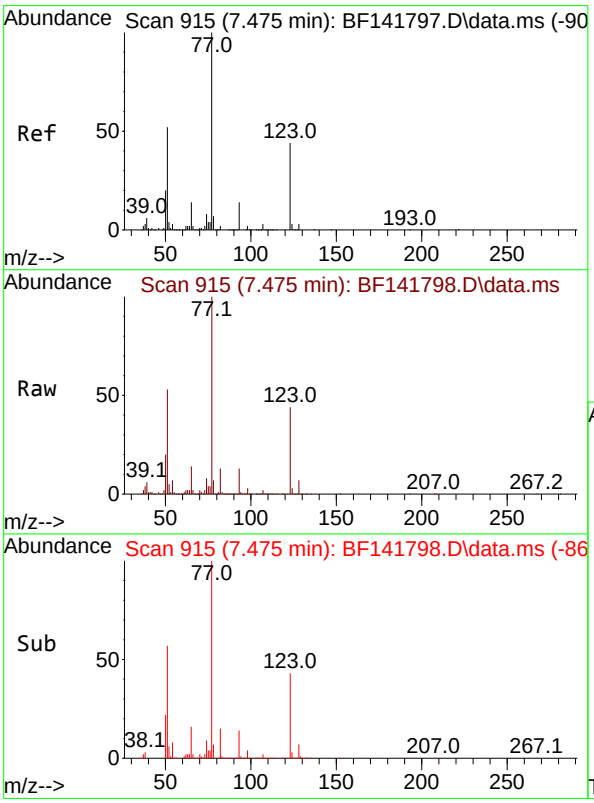
#23
Nitrobenzene-d5
Concen: 106.234 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

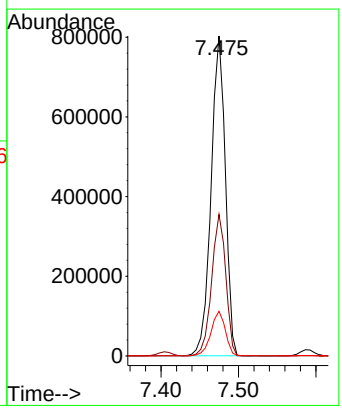


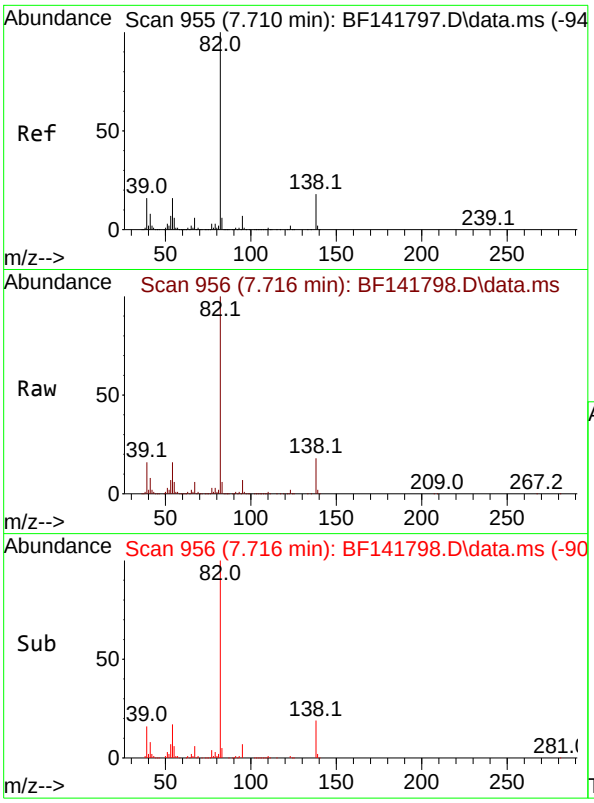


#24
Nitrobenzene
Concen: 52.073 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



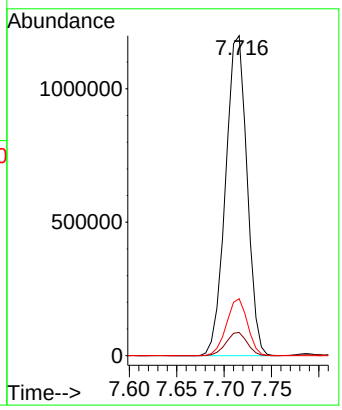


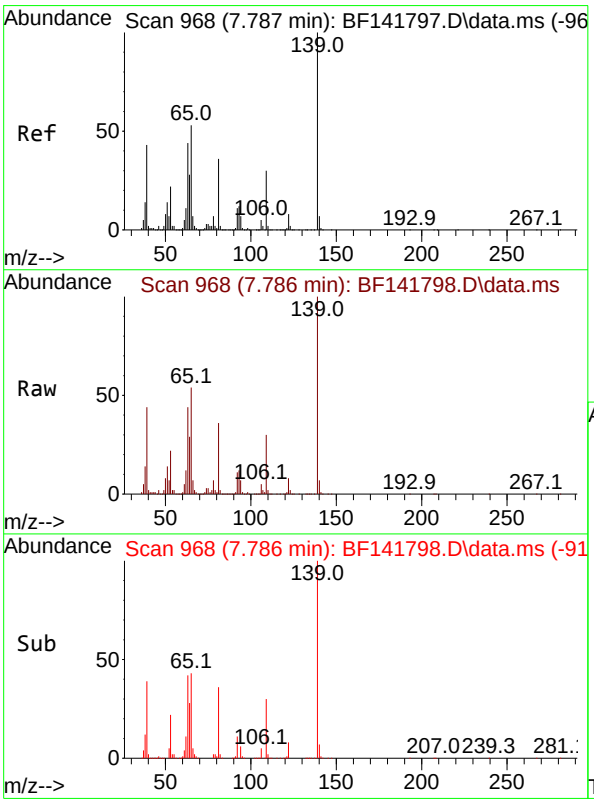
#25
Isophorone
Concen: 47.744 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

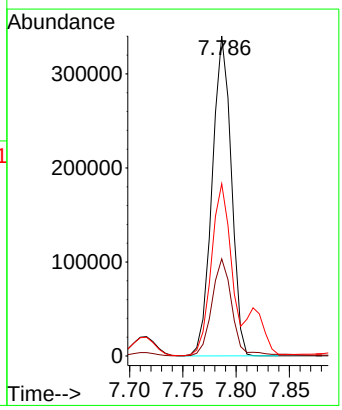


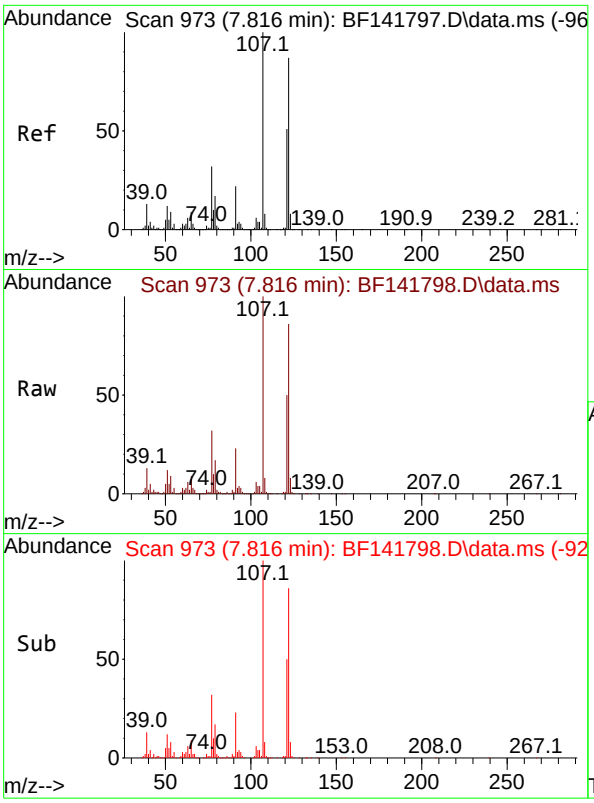


#26
2-Nitrophenol
Concen: 48.354 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



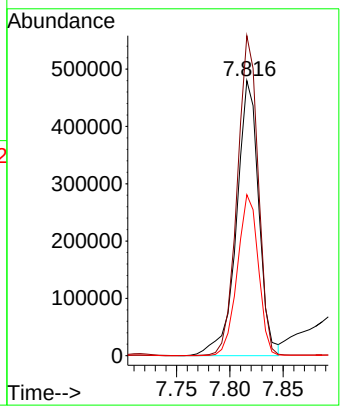


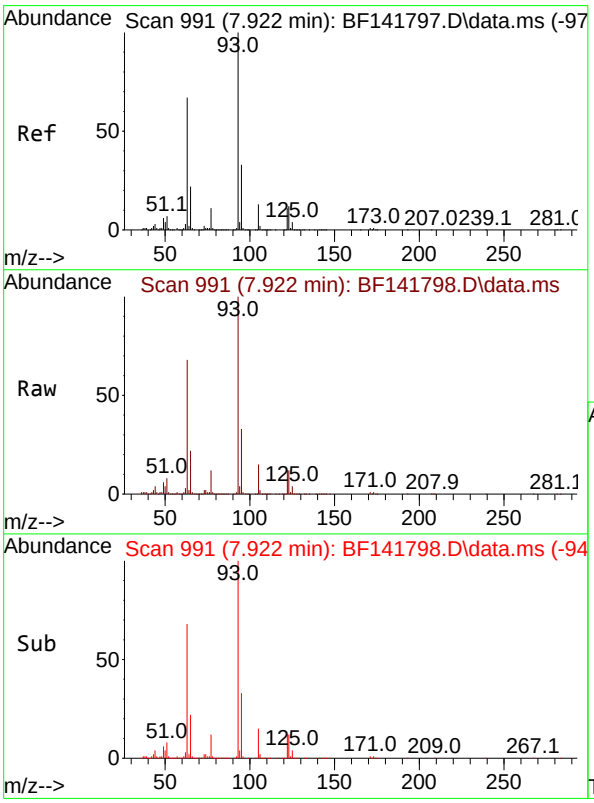
#27
2,4-Dimethylphenol
Concen: 48.082 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

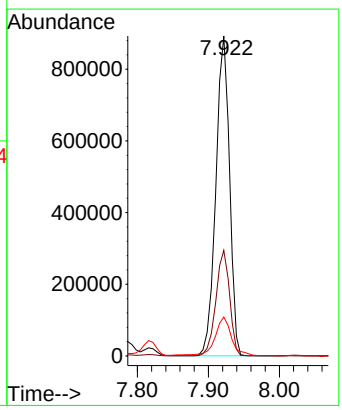


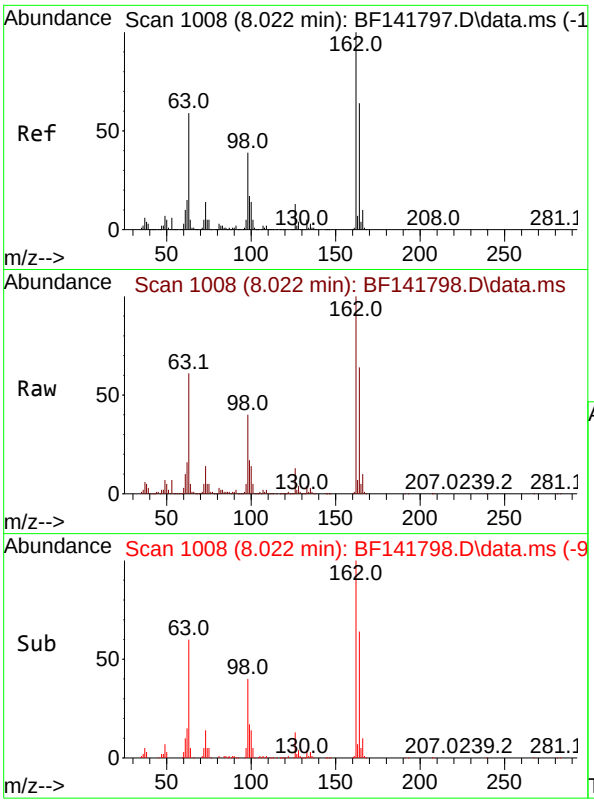


#28
bis(2-Chloroethoxy)methane
Concen: 47.060 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



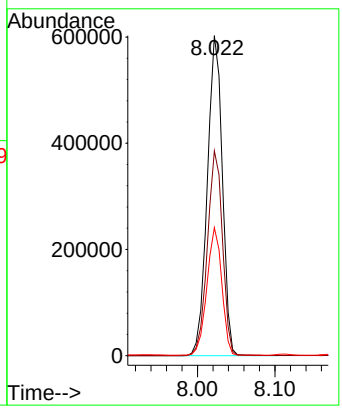


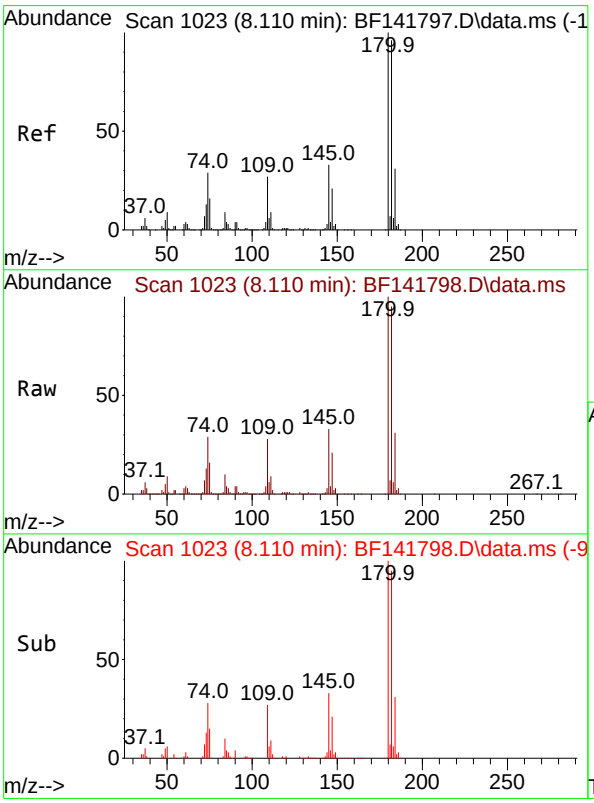
#29
2,4-Dichlorophenol
Concen: 48.527 ng
RT: 8.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

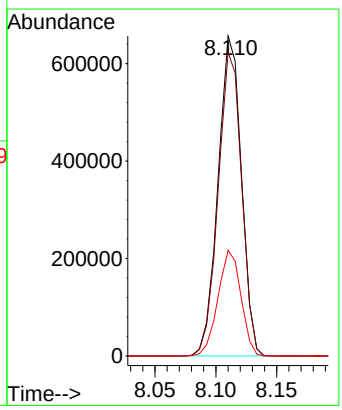


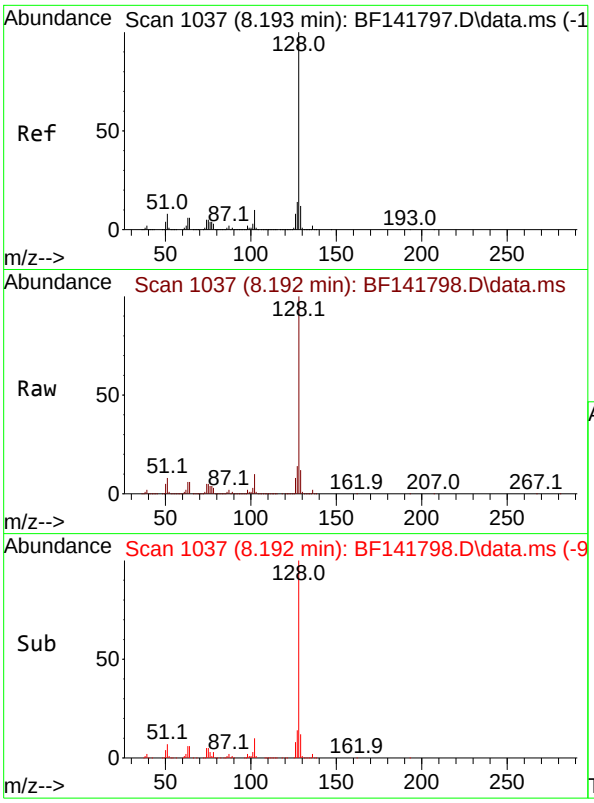


#30
1,2,4-Trichlorobenzene
Concen: 47.693 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



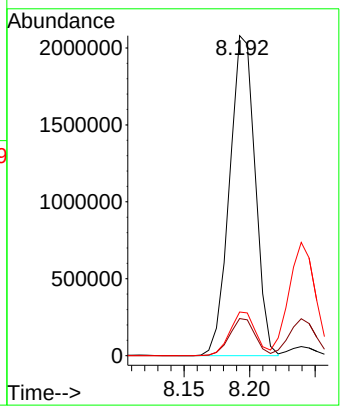


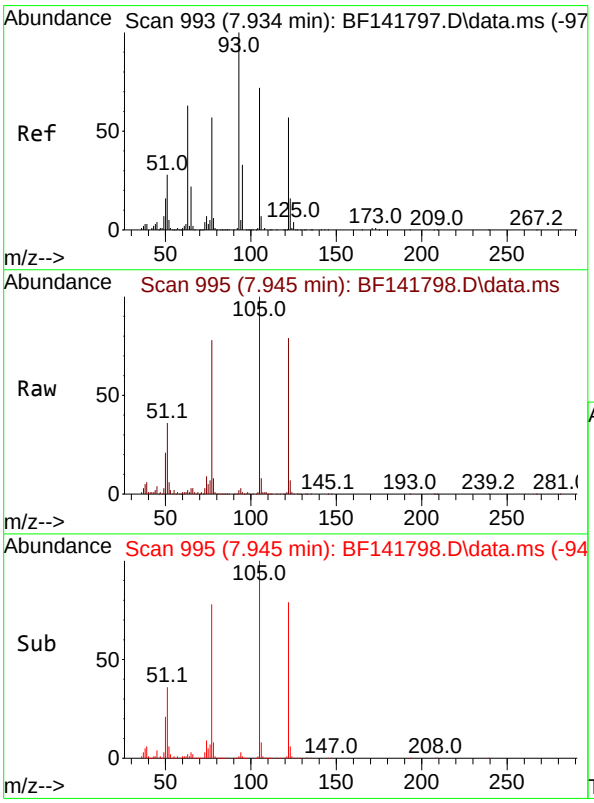
#31
Naphthalene
Concen: 46.685 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

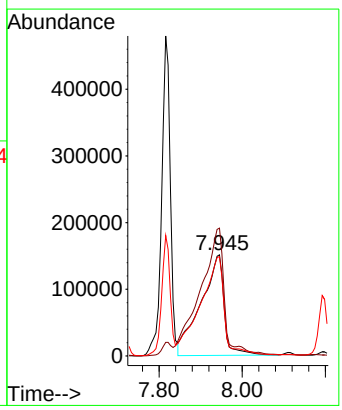


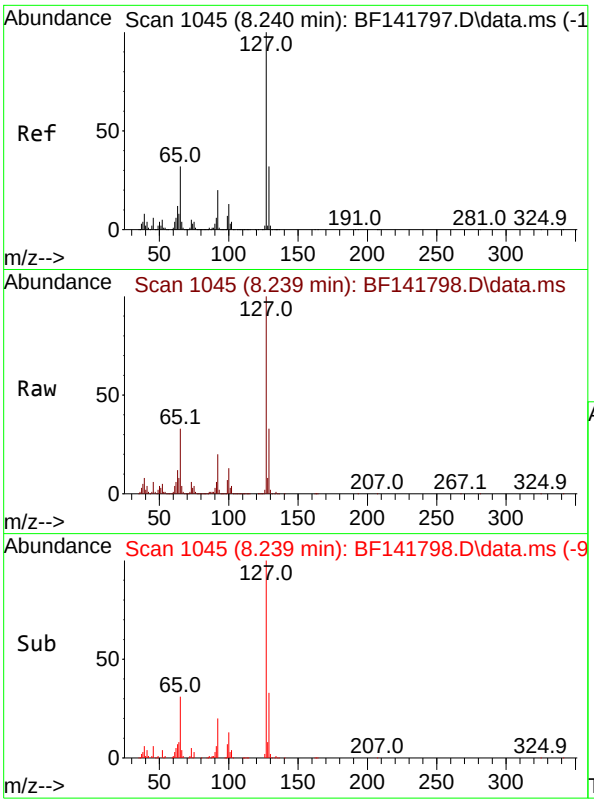


#32
Benzoic acid
Concen: 48.392 ng
RT: 7.945 min Scan# 995
Delta R.T. 0.011 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



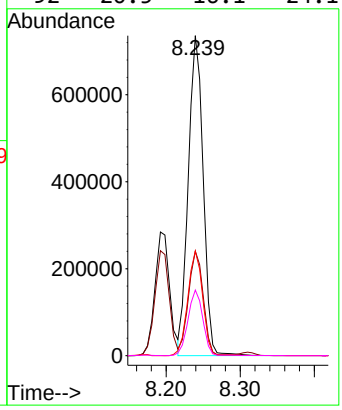


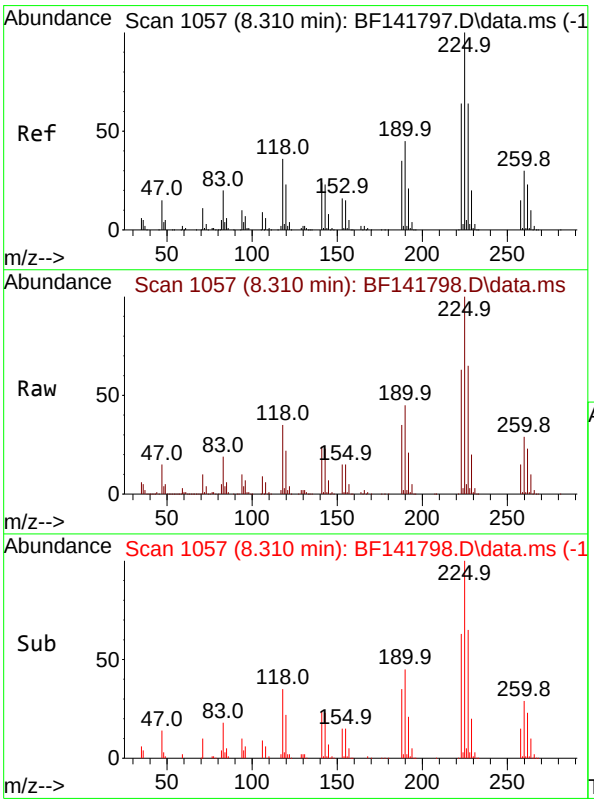
#33
4-Chloroaniline
Concen: 46.432 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

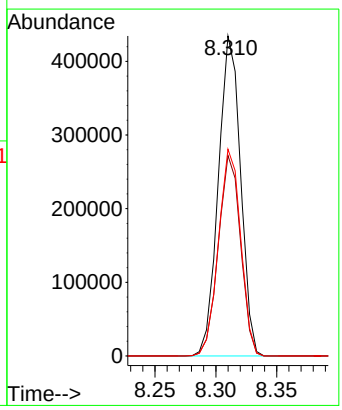


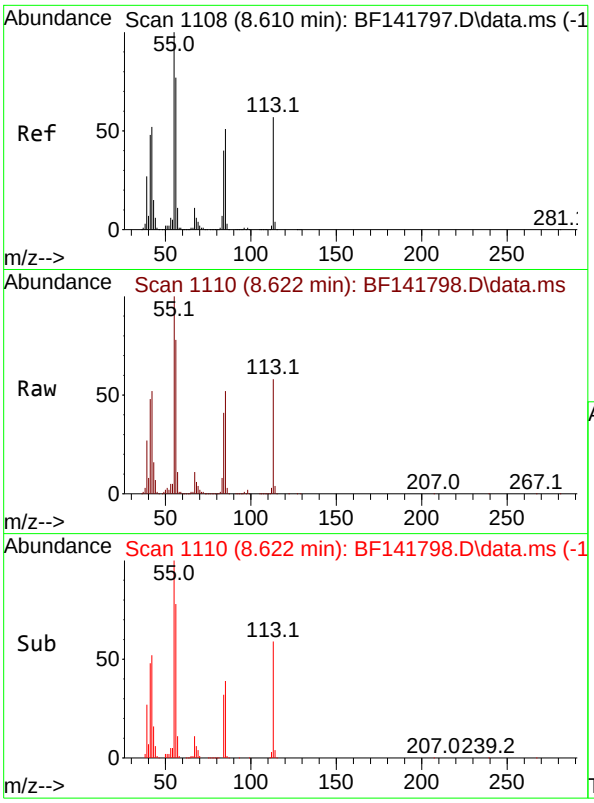


#34
Hexachlorobutadiene
Concen: 48.351 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



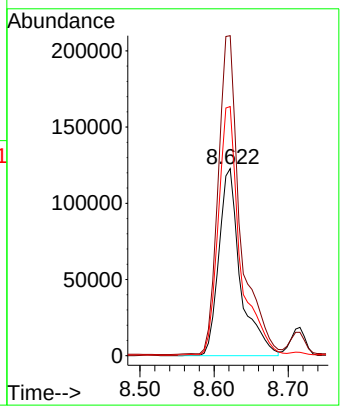


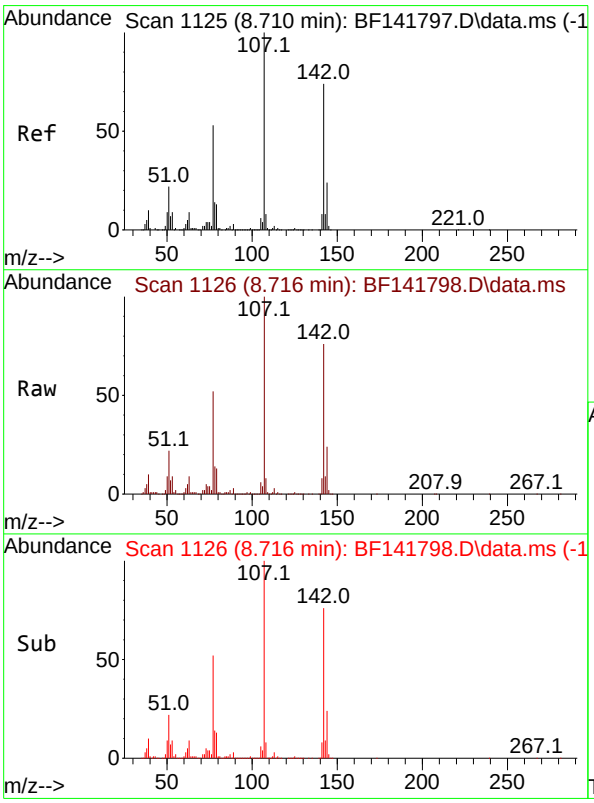
#35
Caprolactam
Concen: 48.241 ng
RT: 8.622 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

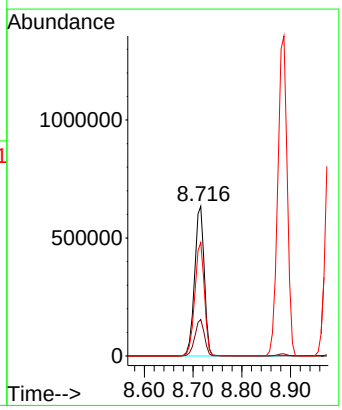


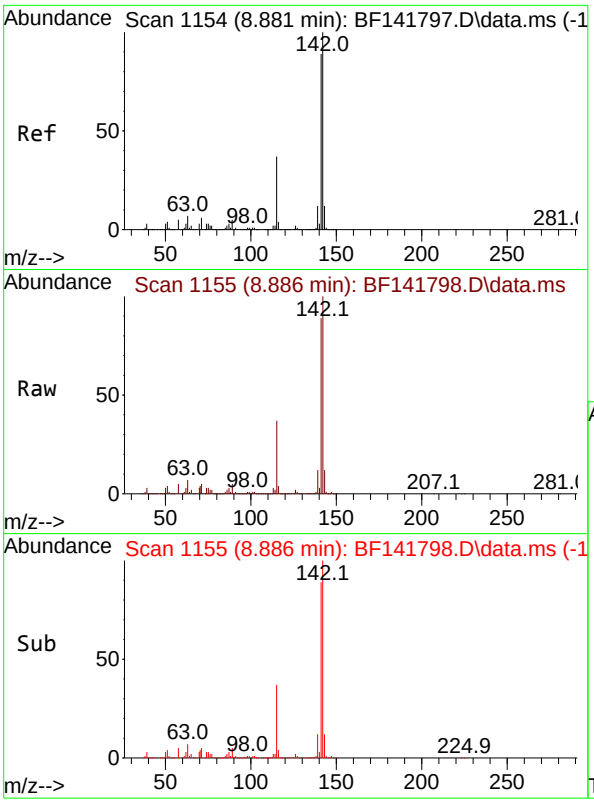


#36
4-Chloro-3-methylphenol
Concen: 47.314 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



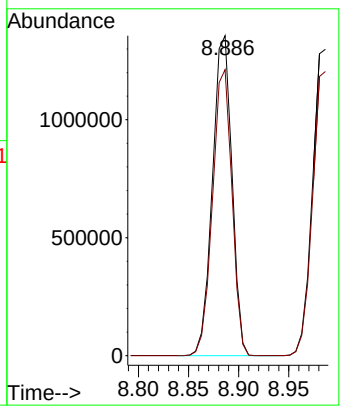


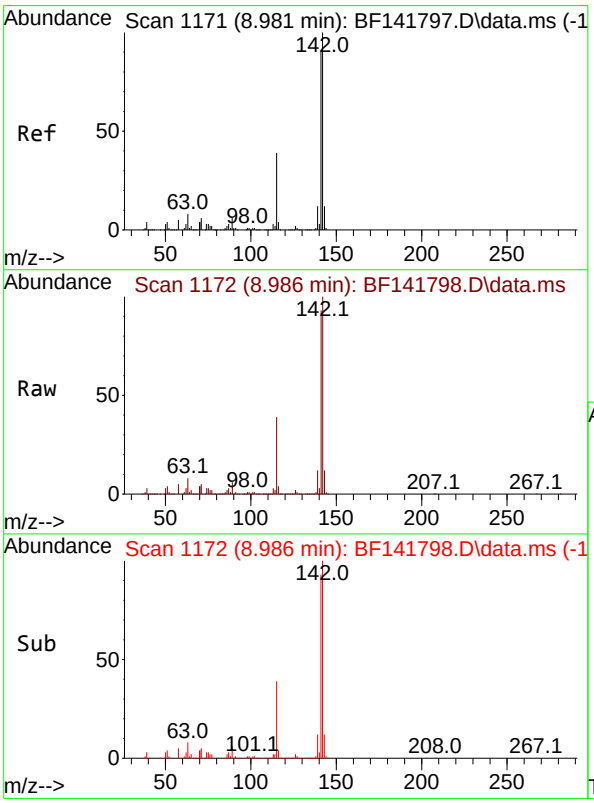
#37
2-Methylnaphthalene
Concen: 46.064 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 1825639

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7

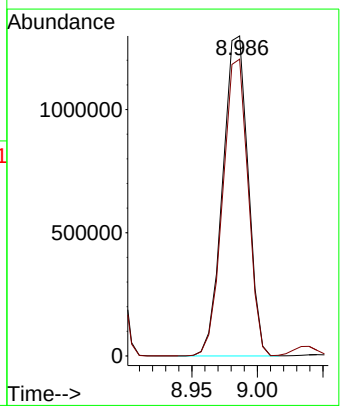


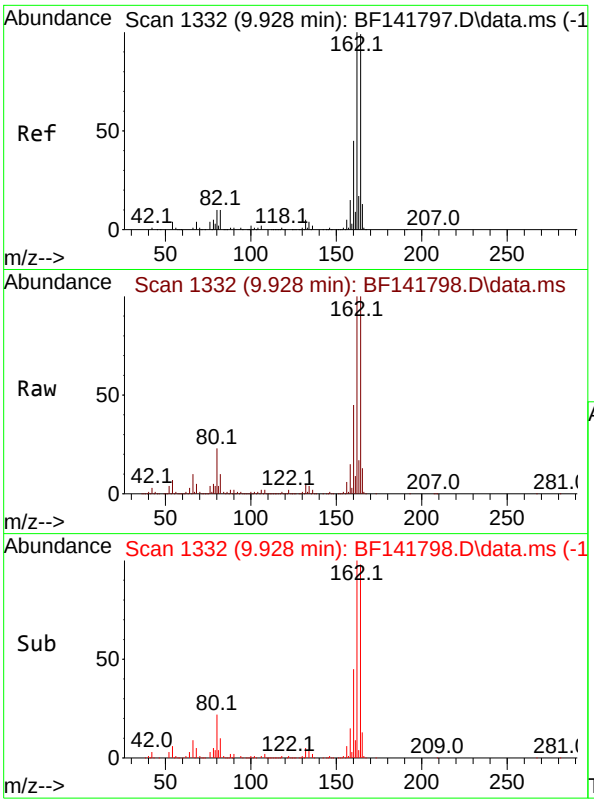


#38
1-Methylnaphthalene
Concen: 45.899 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

Tgt Ion:142 Resp: 1745465

Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.1	109.7



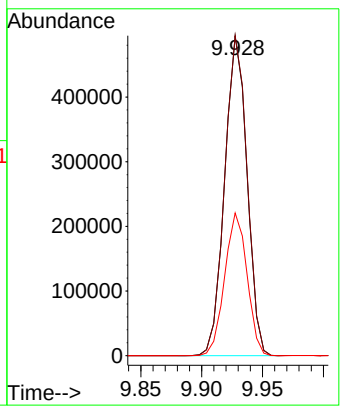


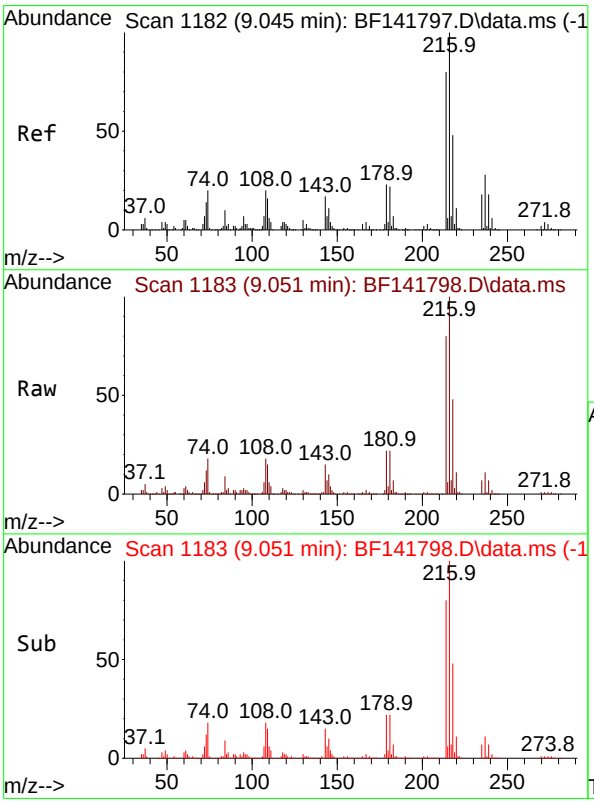
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

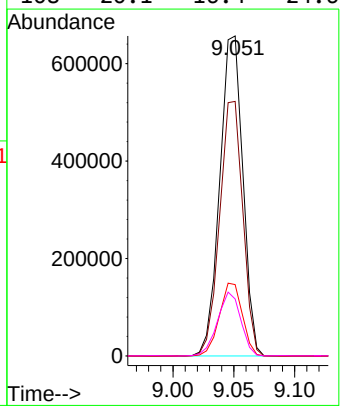


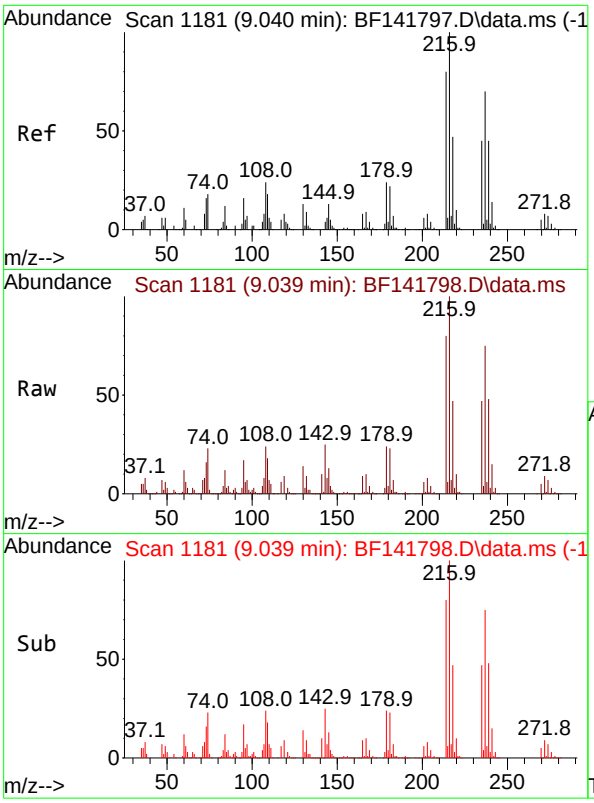


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.555 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



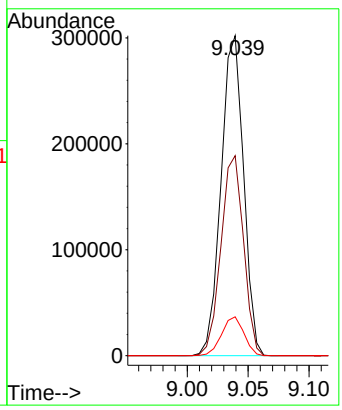


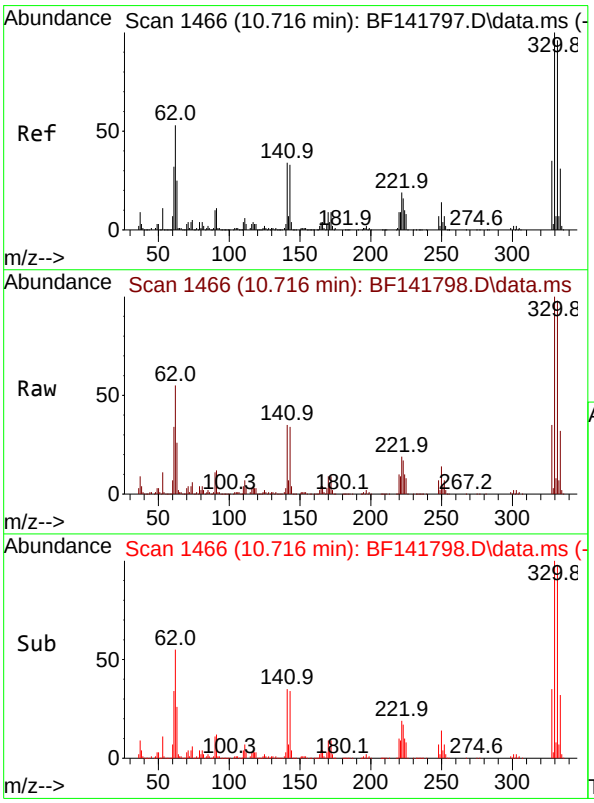
#41
Hexachlorocyclopentadiene
Concen: 50.930 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

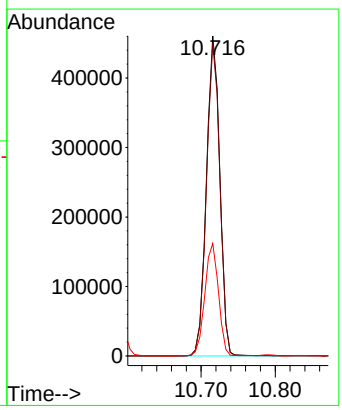


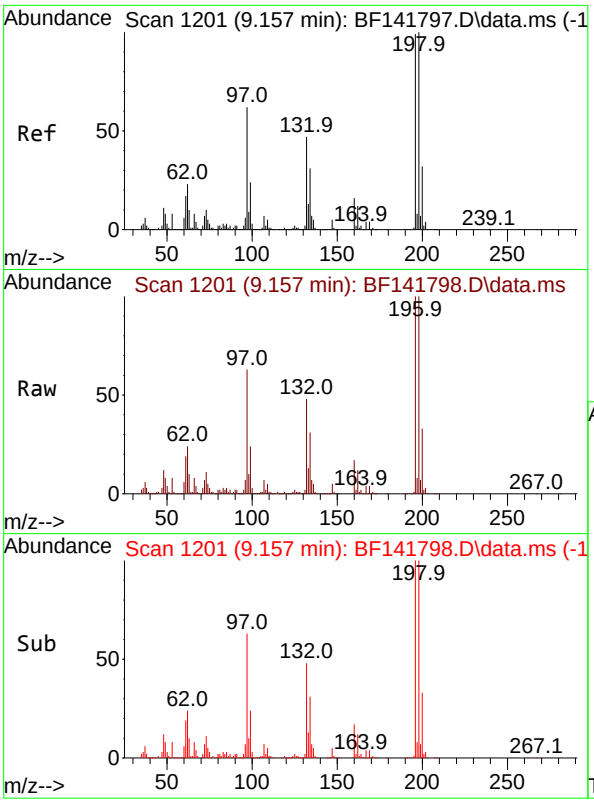


#42
2,4,6-Tribromophenol
Concen: 97.701 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



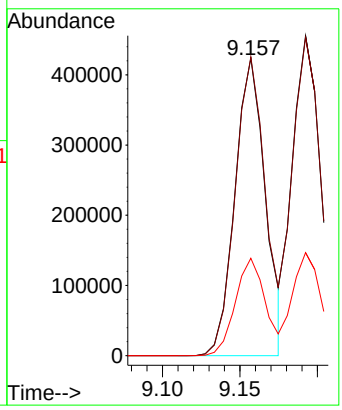


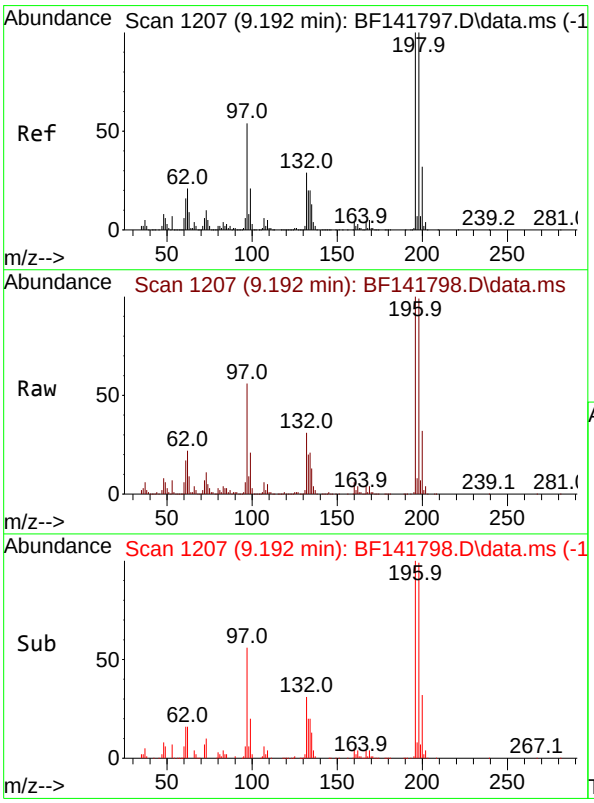
#43
2,4,6-Trichlorophenol
Concen: 49.010 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

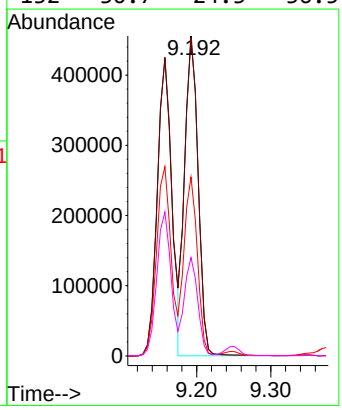


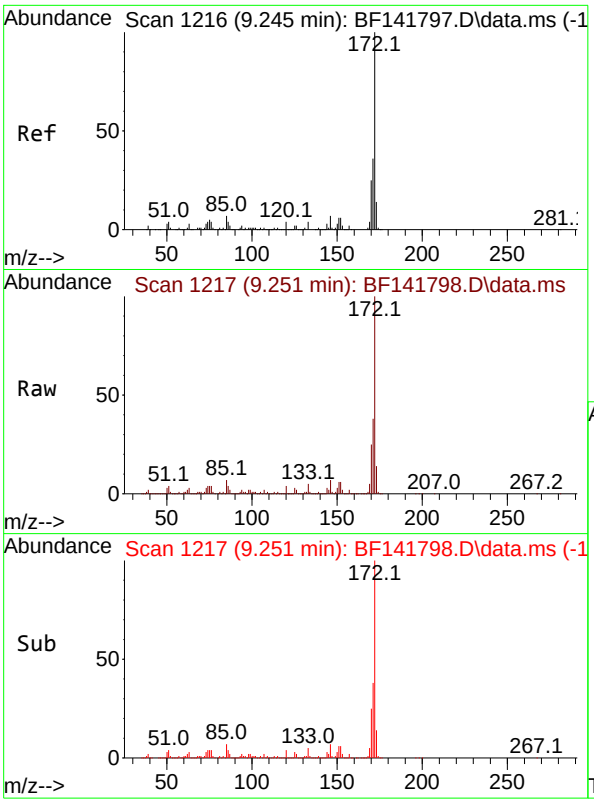


#44
2,4,5-Trichlorophenol
Concen: 49.213 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



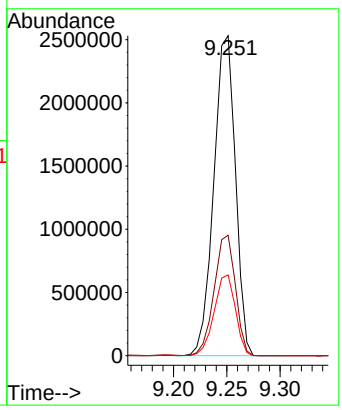


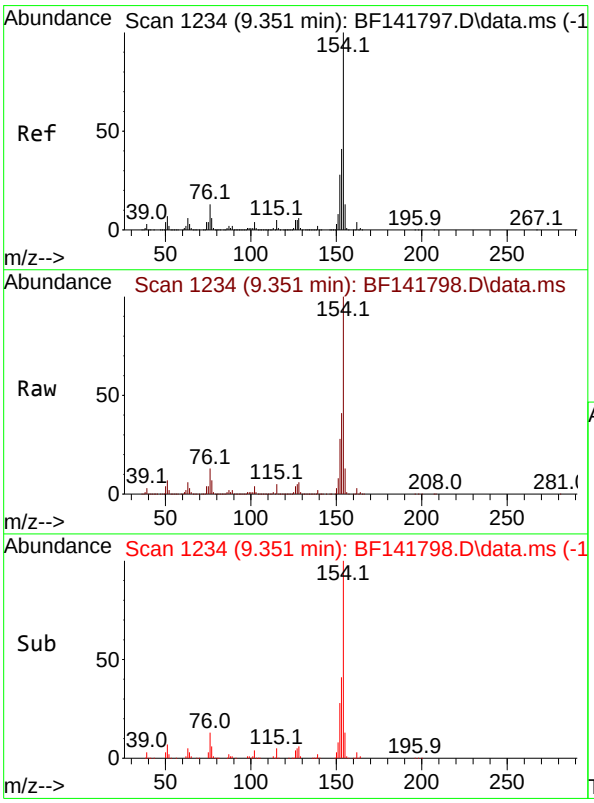
#45
2-Fluorobiphenyl
Concen: 90.435 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

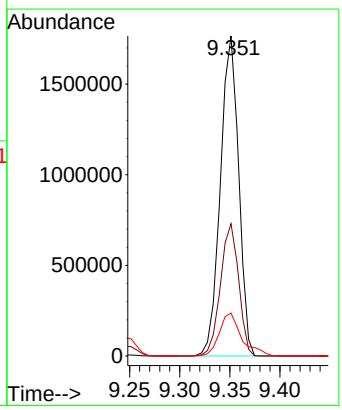


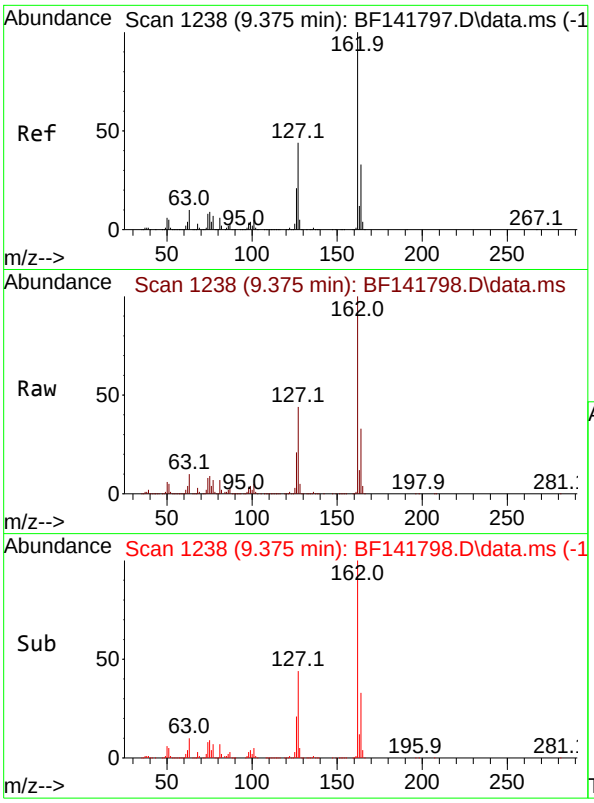


#46
1,1'-Biphenyl
Concen: 46.420 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



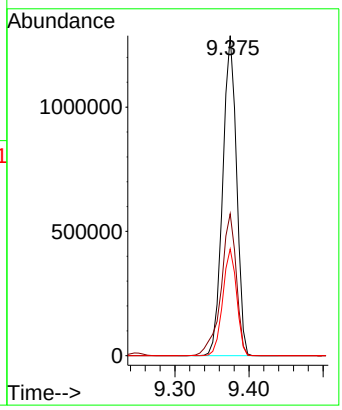


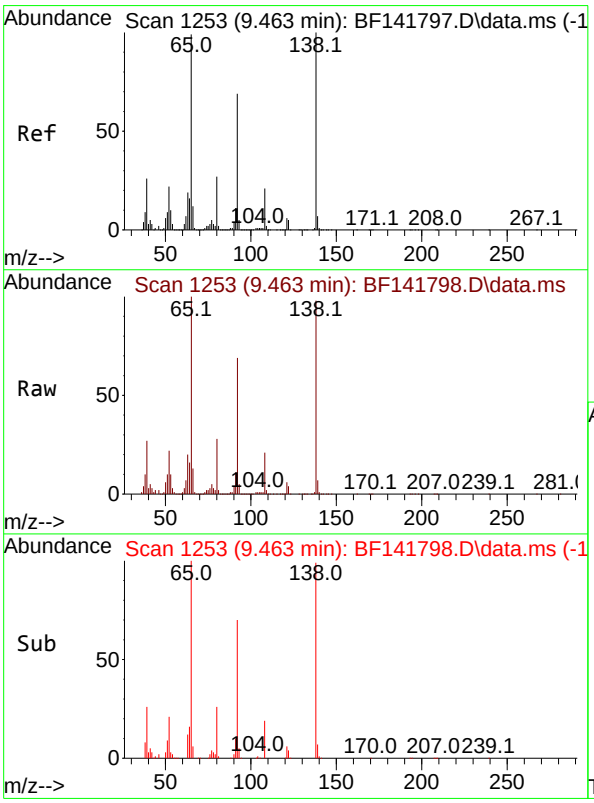
#47
2-Chloronaphthalene
Concen: 47.075 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

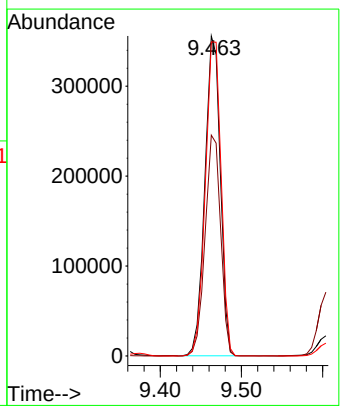


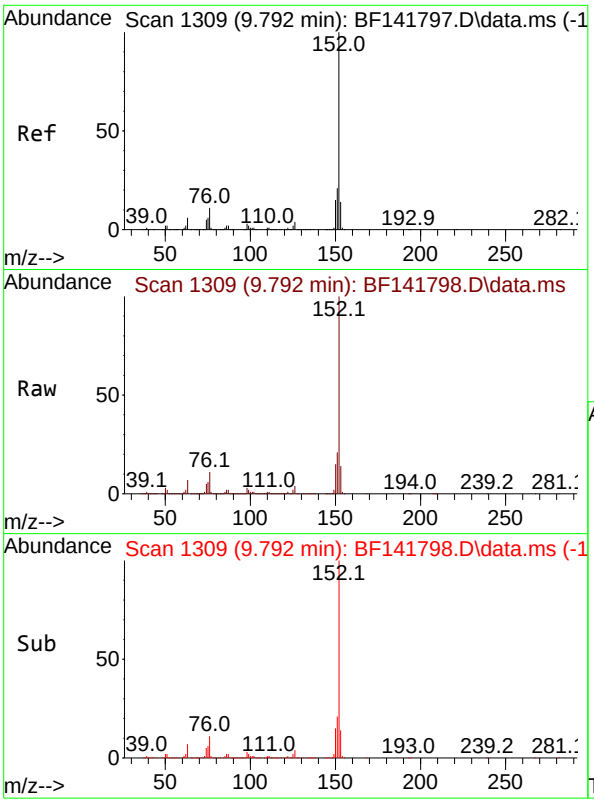


#48
2-Nitroaniline
Concen: 48.211 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



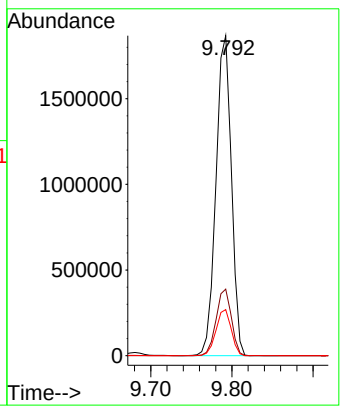


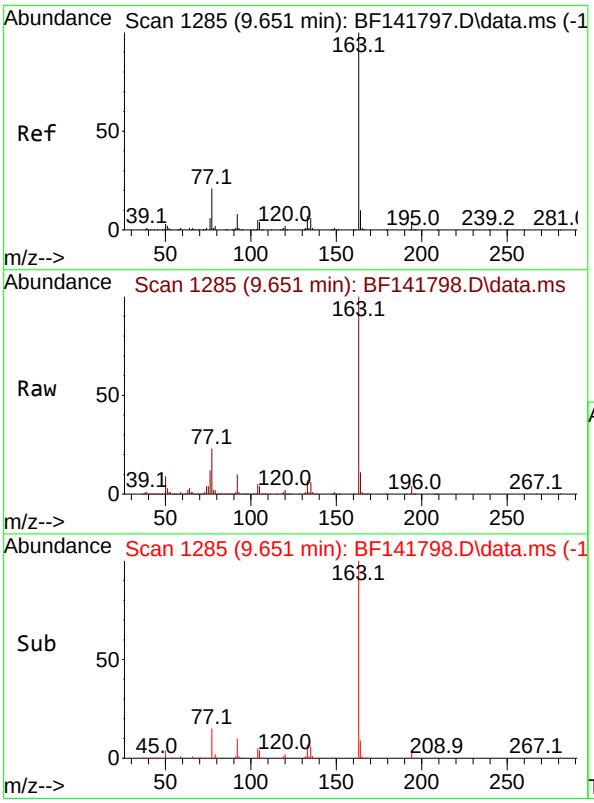
#49
Acenaphthylene
Concen: 46.294 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

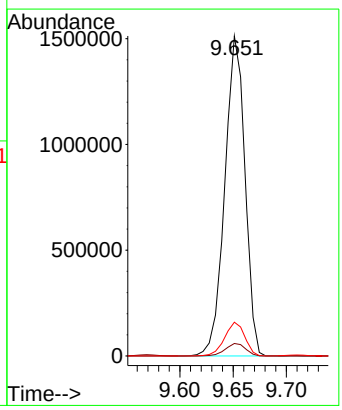


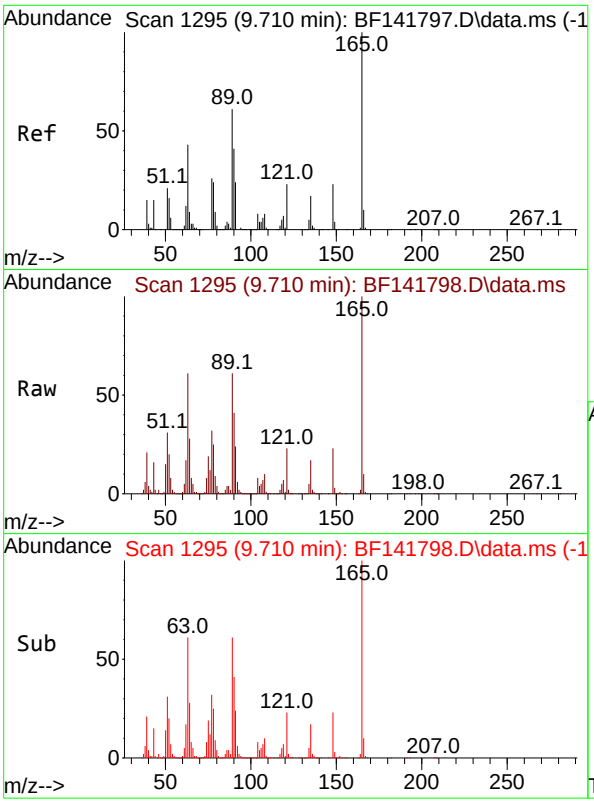


#50
Dimethylphthalate
Concen: 47.103 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



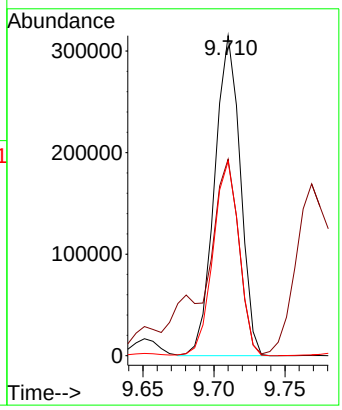


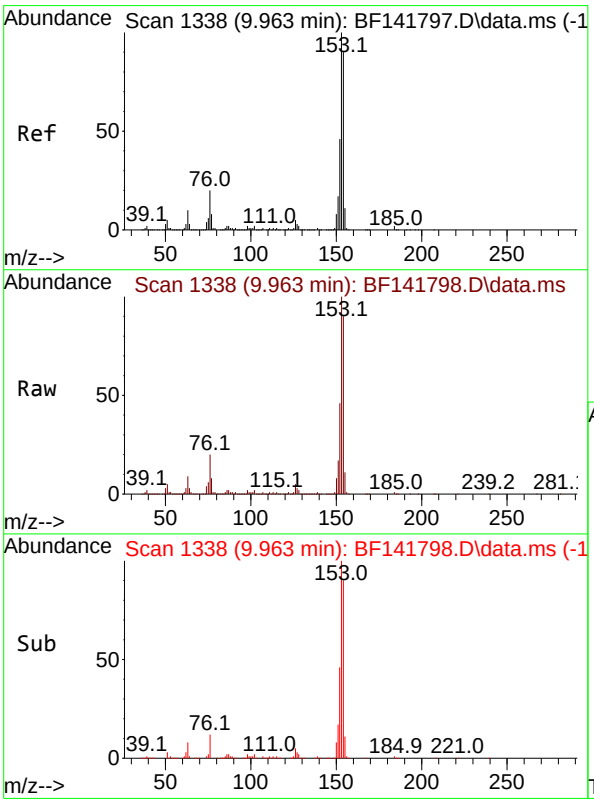
#51
2,6-Dinitrotoluene
Concen: 48.926 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

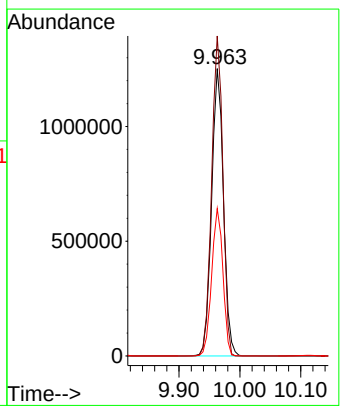


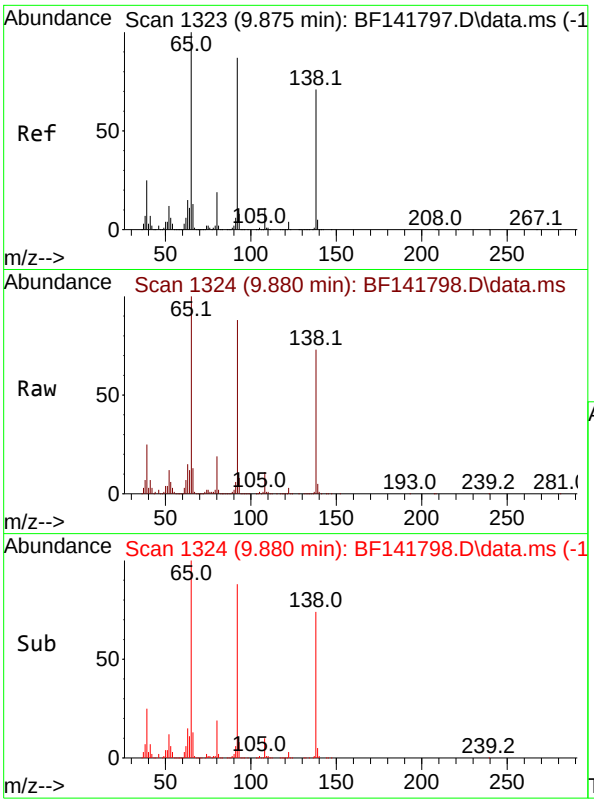


#52
Acenaphthene
Concen: 46.994 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



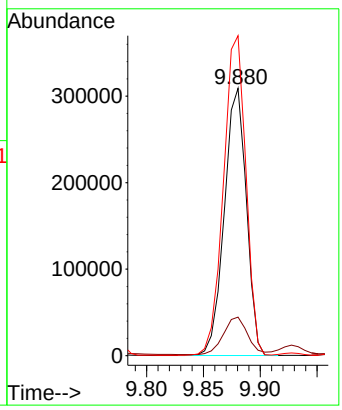


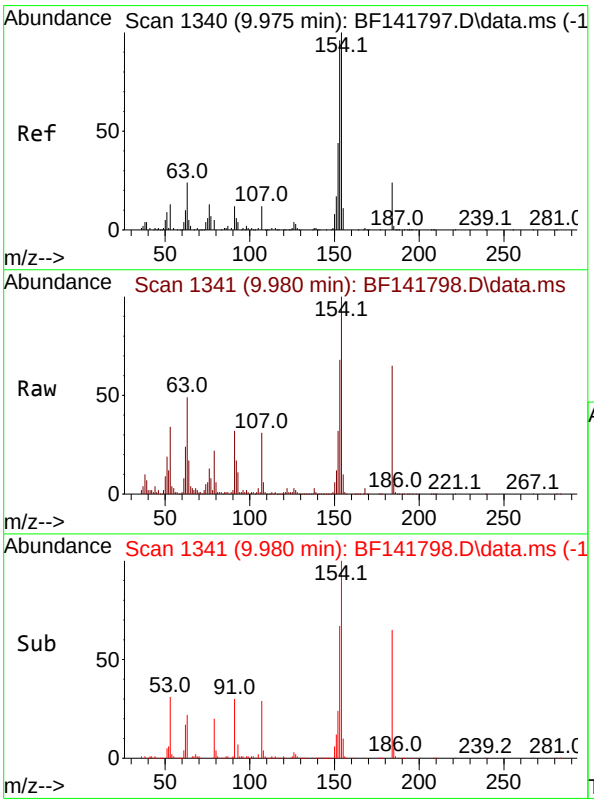
#53
3-Nitroaniline
Concen: 48.300 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

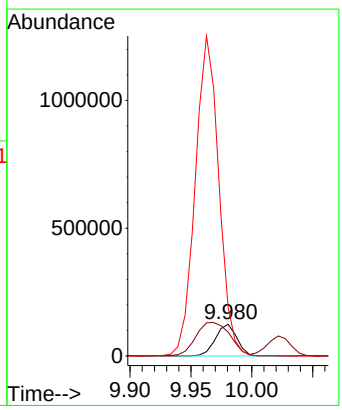


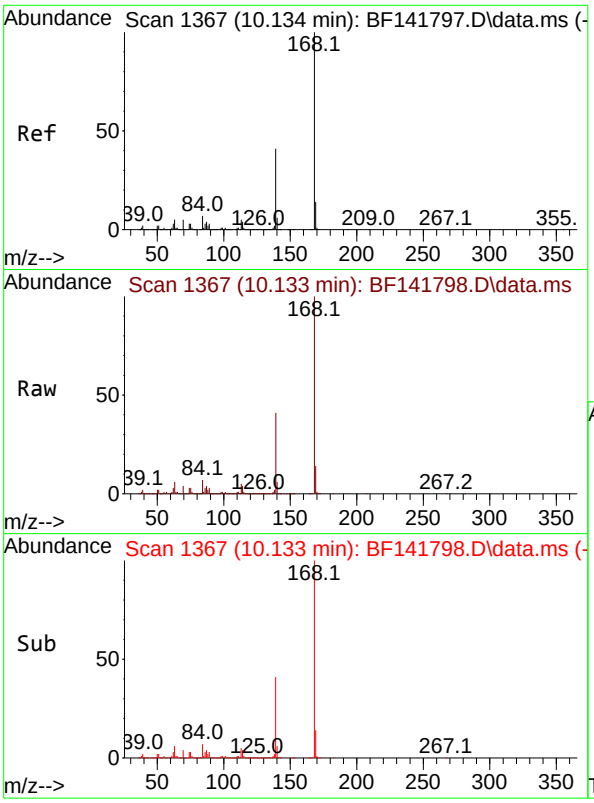


#54
2,4-Dinitrophenol
Concen: 48.388 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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#



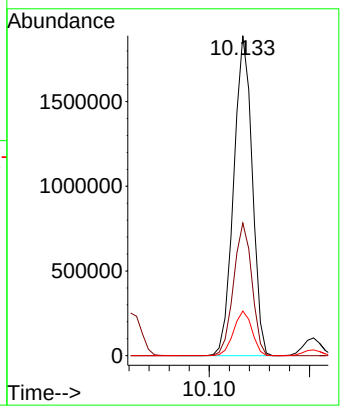


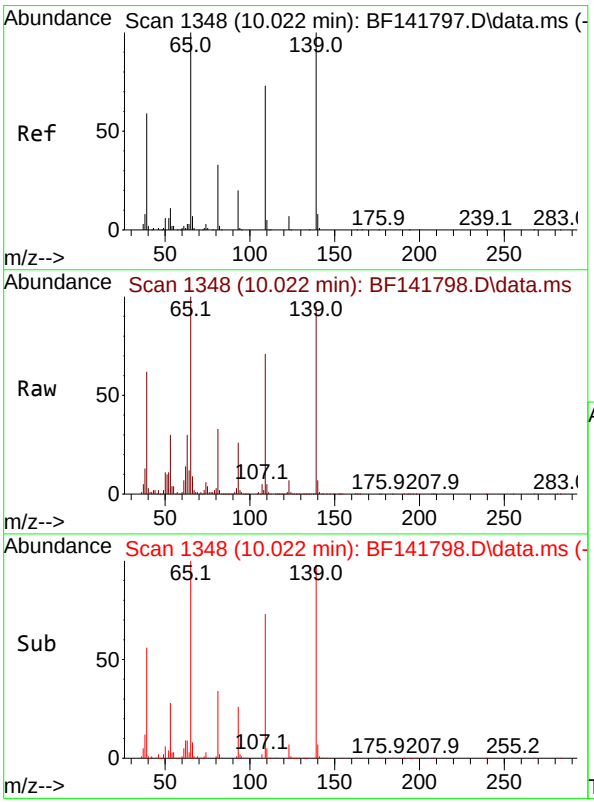
#55
Dibenzofuran
Concen: 46.312 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

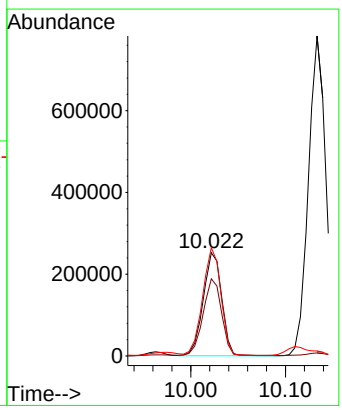


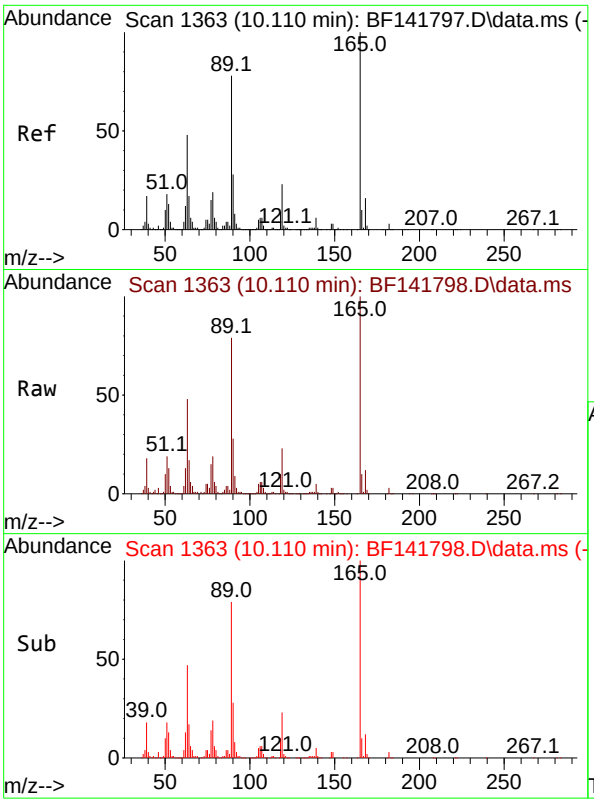


#56
4-Nitrophenol
Concen: 54.357 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



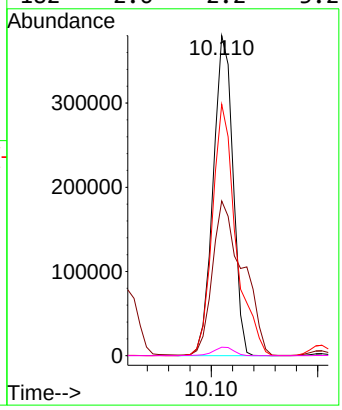


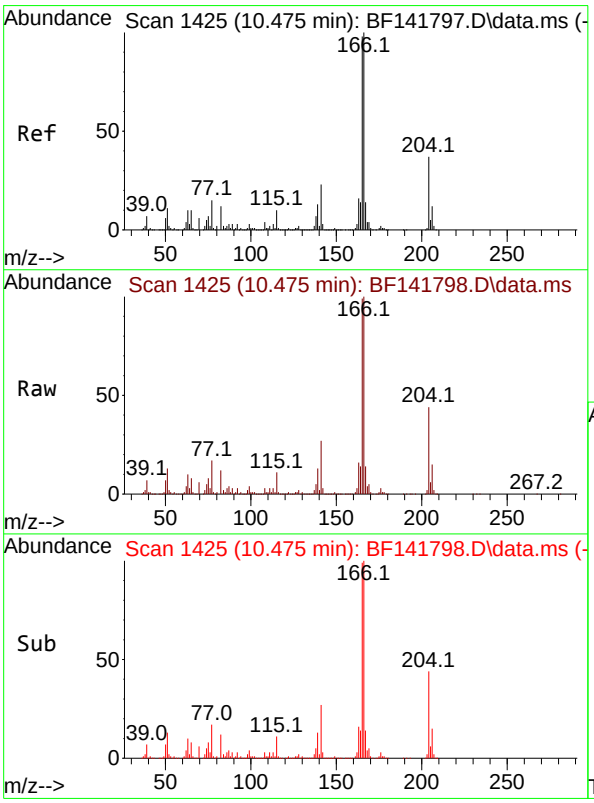
#57
2,4-Dinitrotoluene
Concen: 49.405 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

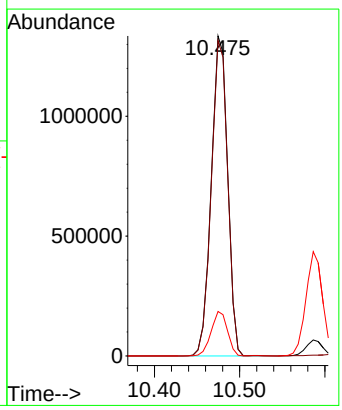


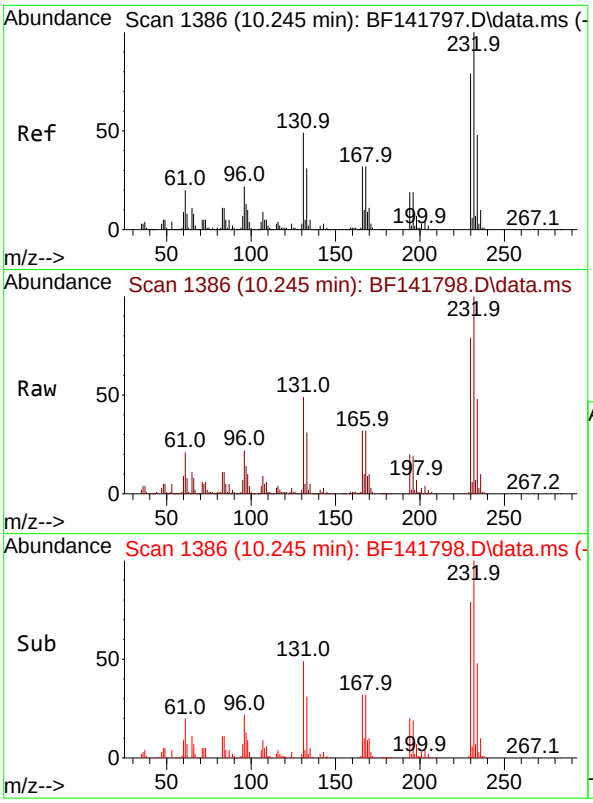


#58
Fluorene
Concen: 45.518 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



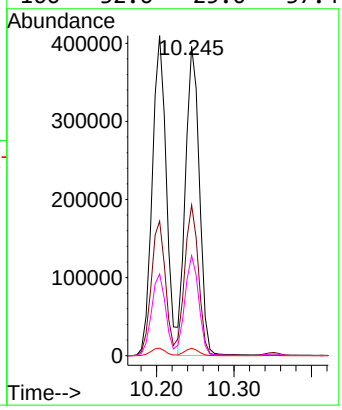


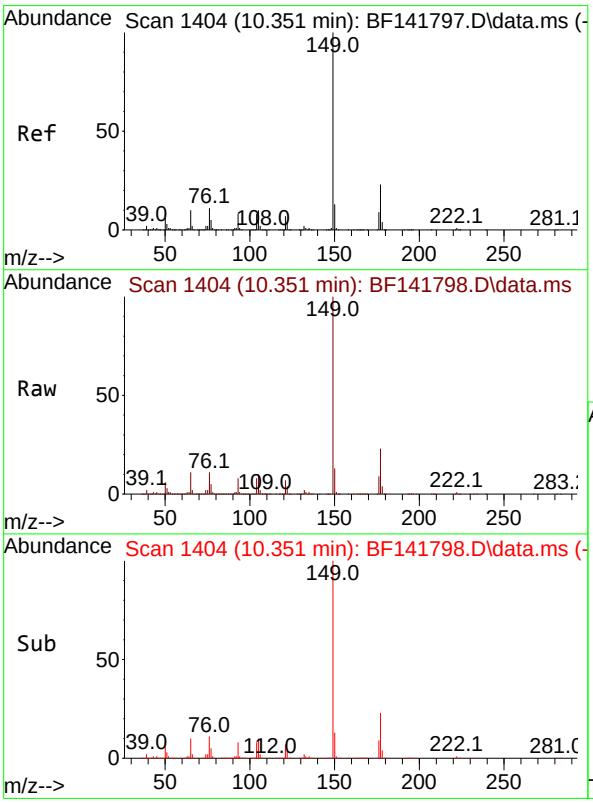
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.140 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

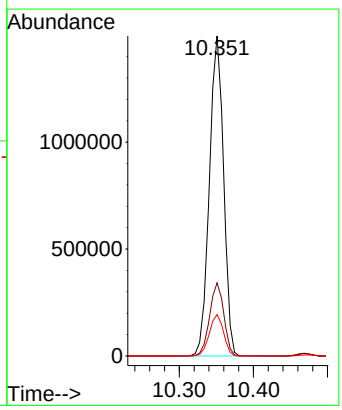


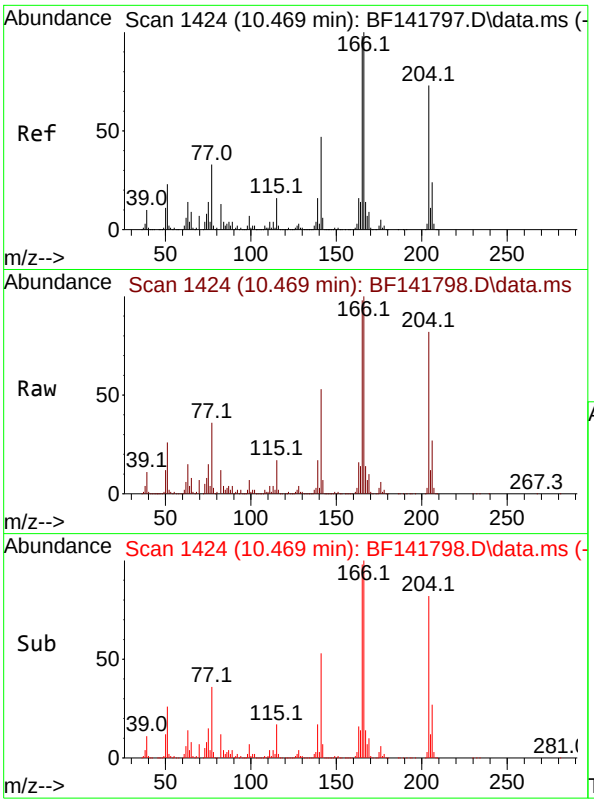


#60
Diethylphthalate
Concen: 46.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



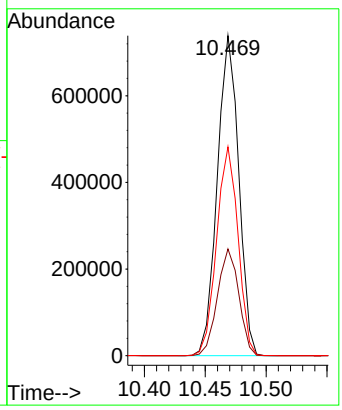


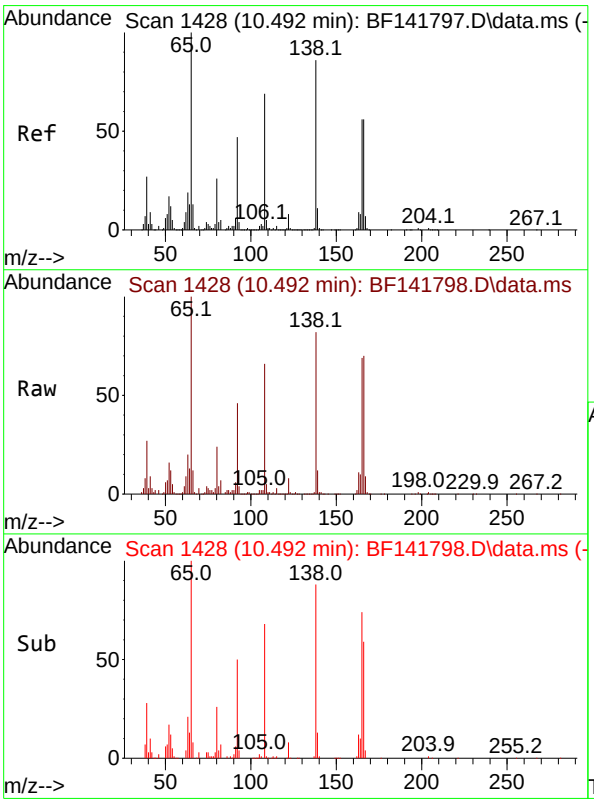
#61
4-Chlorophenyl-phenylether
Concen: 46.084 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

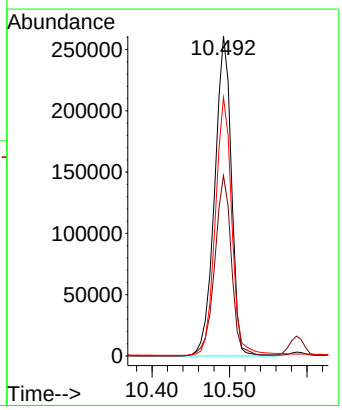


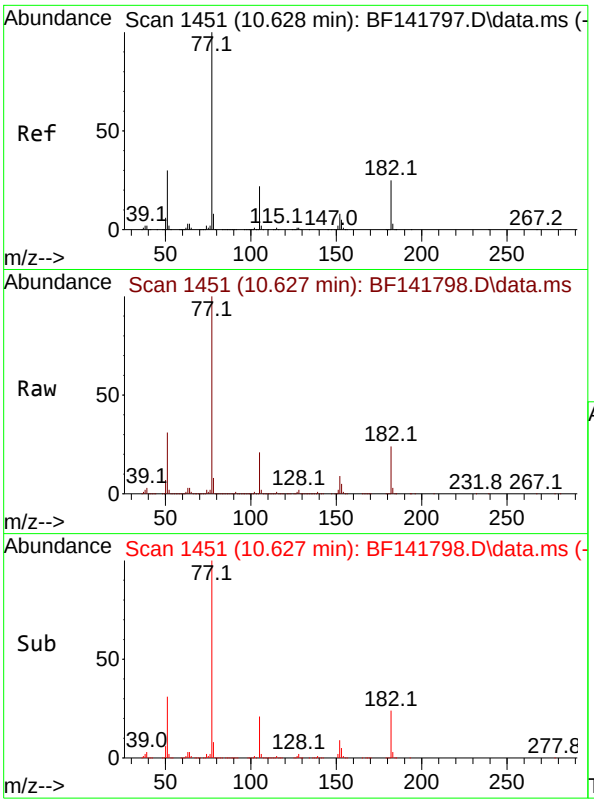


#62
4-Nitroaniline
Concen: 54.114 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



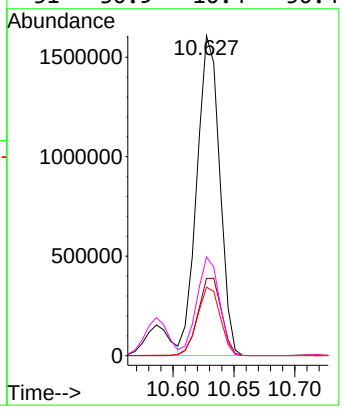


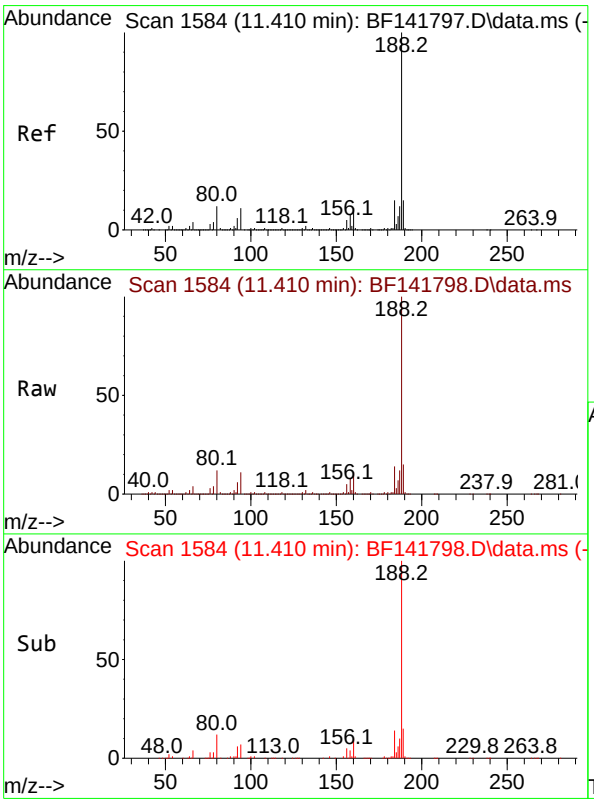
#63
Azobenzene
Concen: 46.687 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

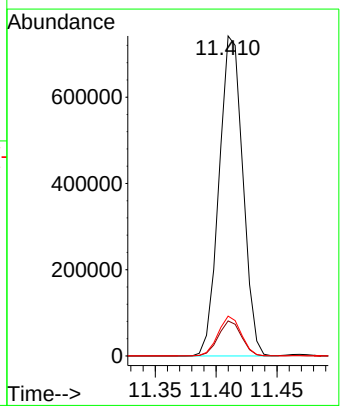


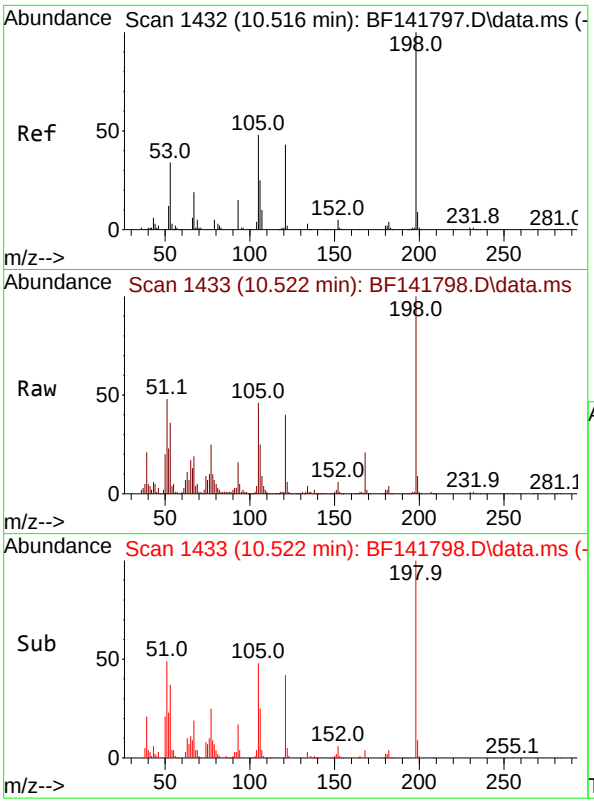


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



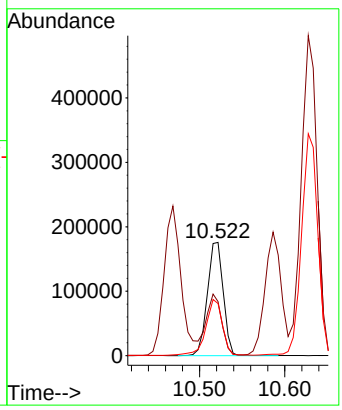


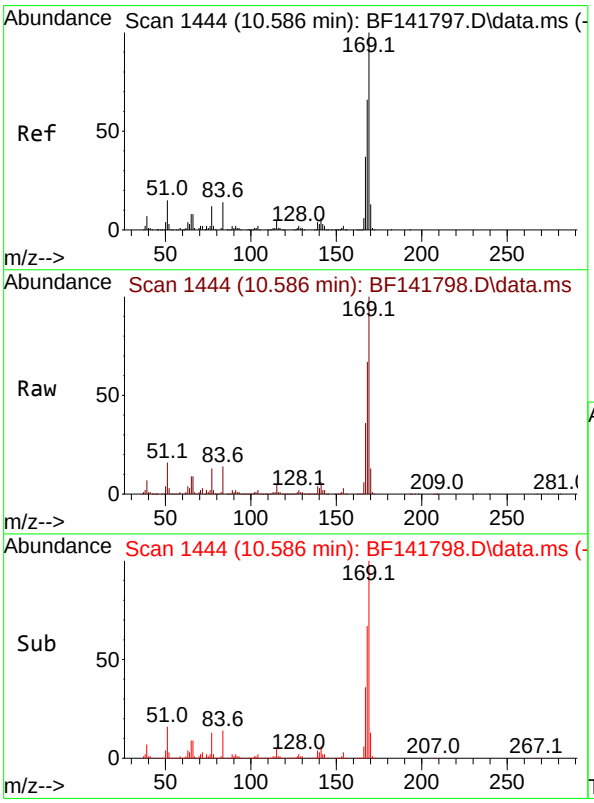
#65
4,6-Dinitro-2-methylphenol
Concen: 47.968 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

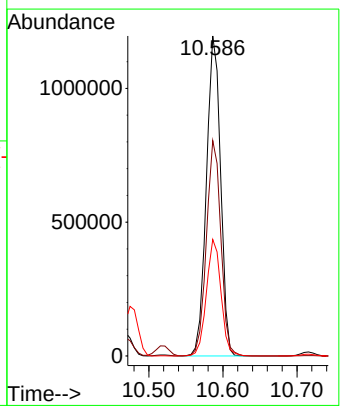


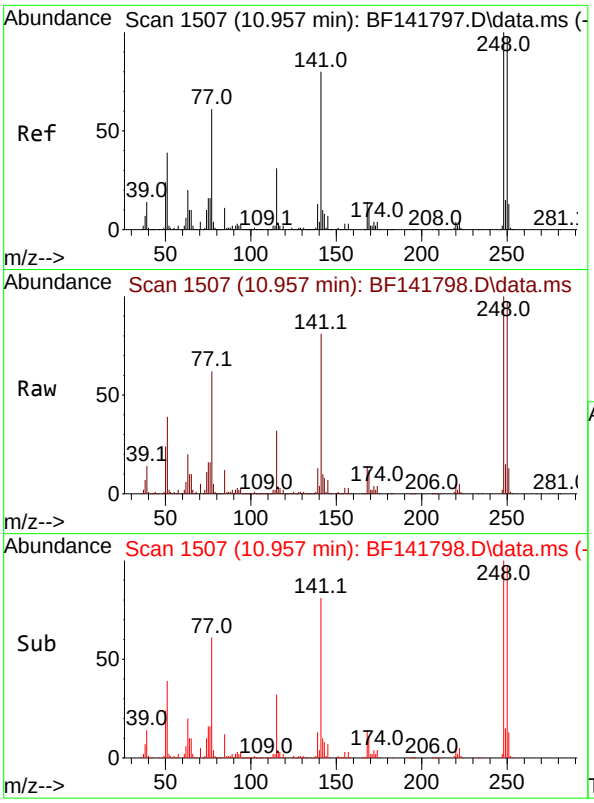


#66
n-Nitrosodiphenylamine
Concen: 48.041 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



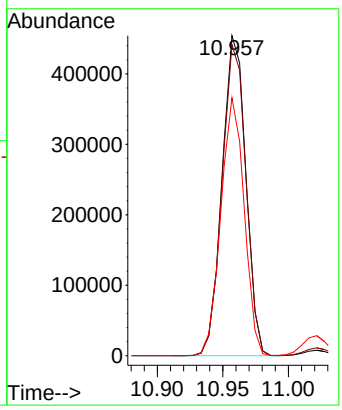


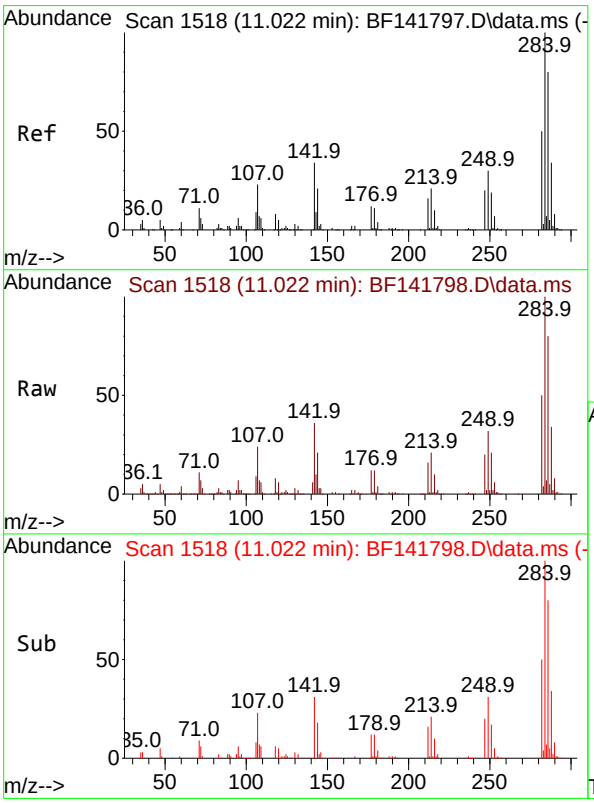
#67
4-Bromophenyl-phenylether
Concen: 48.631 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

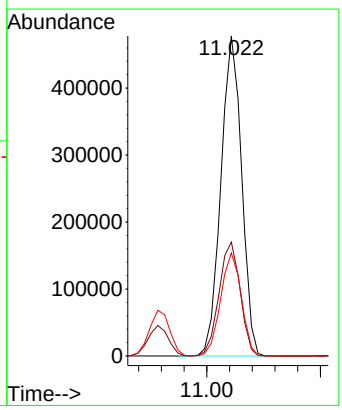


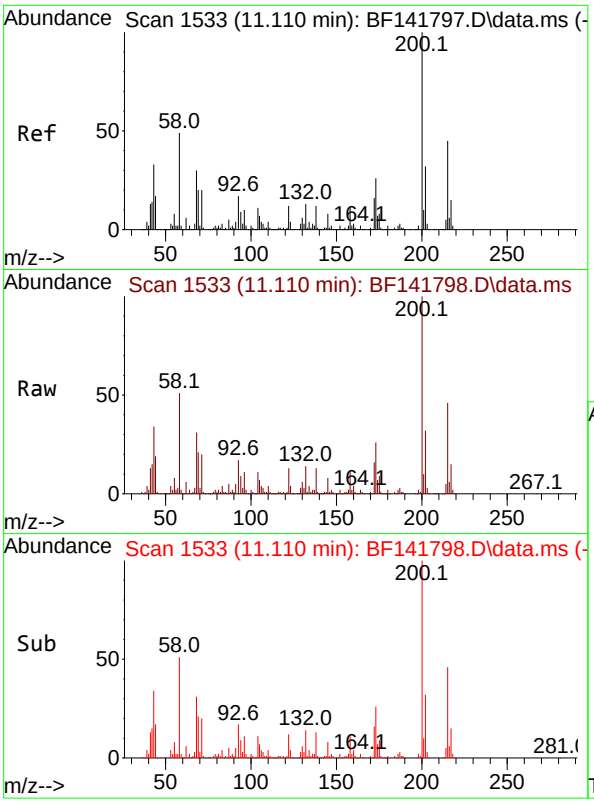


#68
Hexachlorobenzene
Concen: 48.705 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



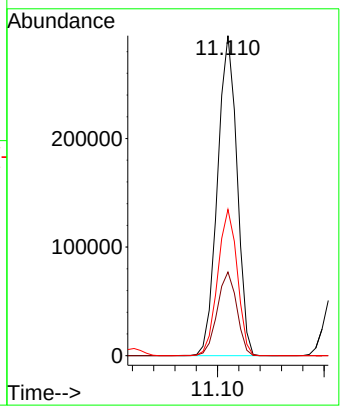


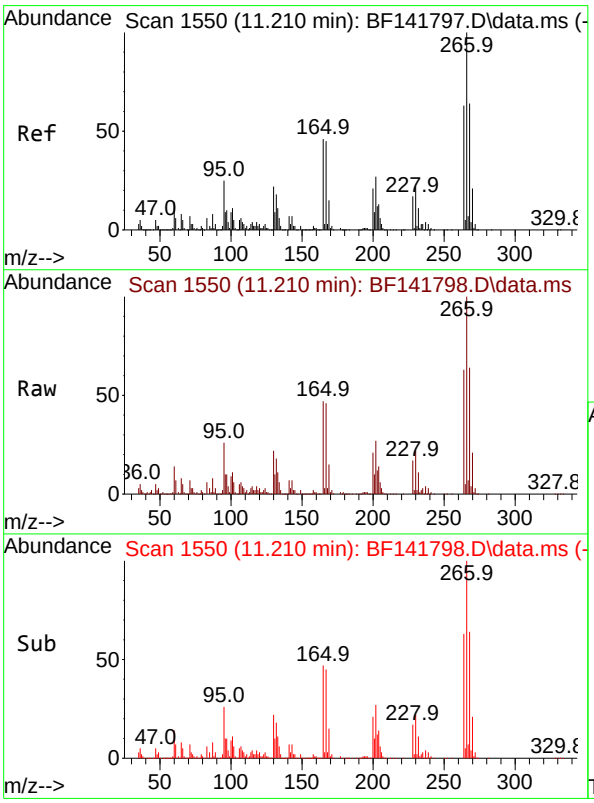
#69
Atrazine
Concen: 41.179 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

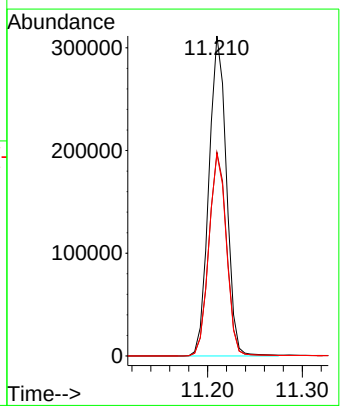


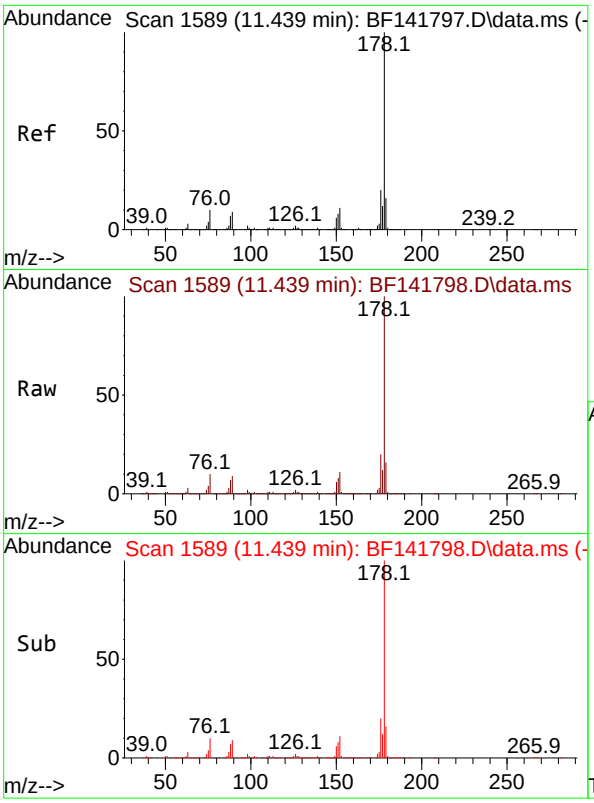


#70
Pentachlorophenol
Concen: 50.809 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



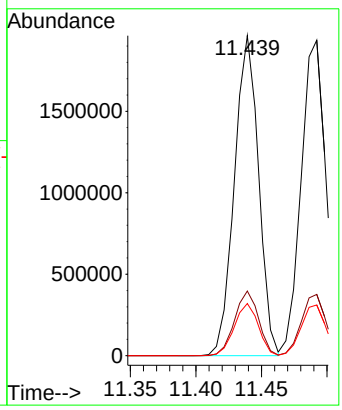


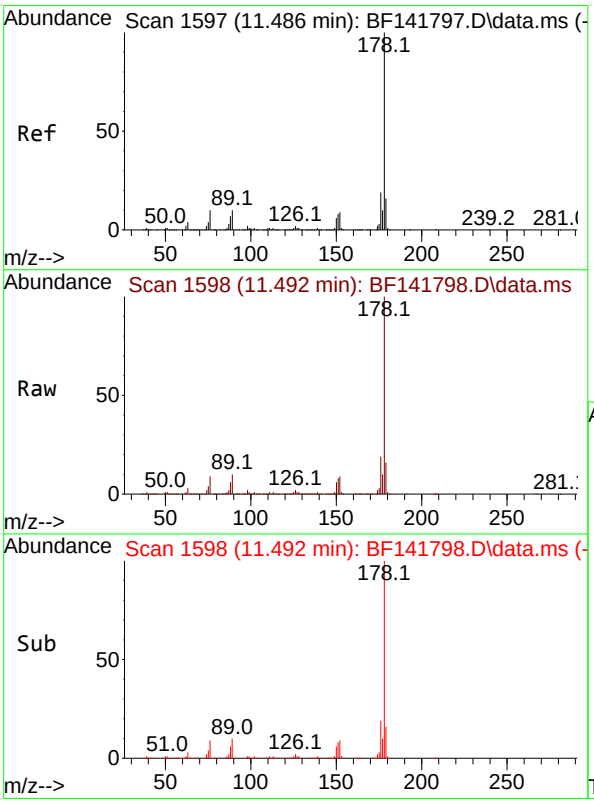
#71
Phenanthrene
Concen: 46.806 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

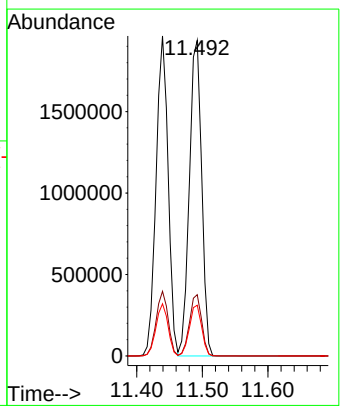


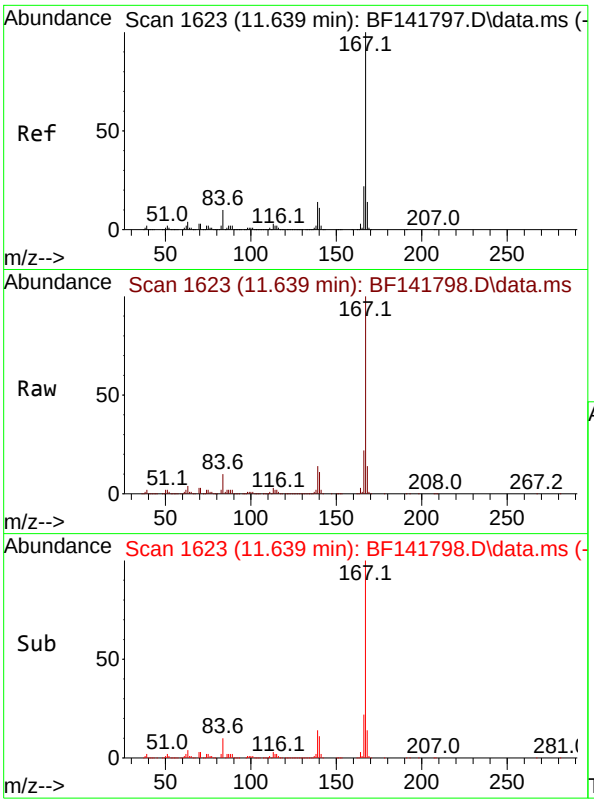


#72
Anthracene
Concen: 46.707 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



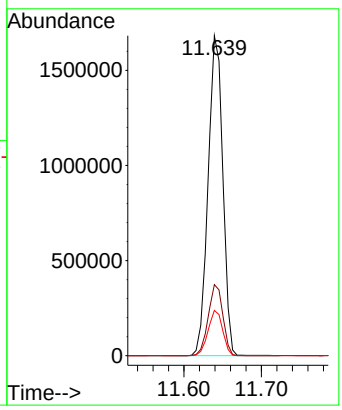


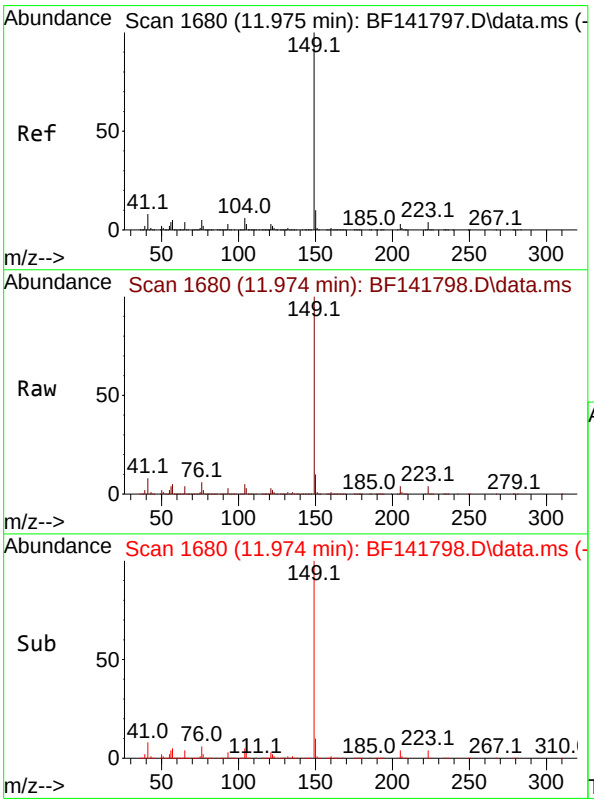
#73
Carbazole
Concen: 46.572 ng
RT: 11.639 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

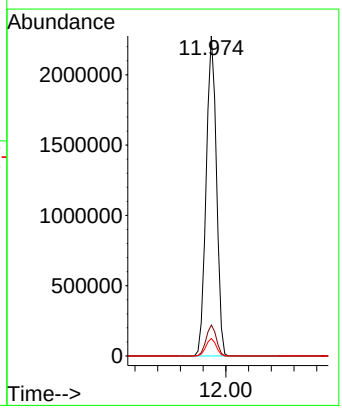


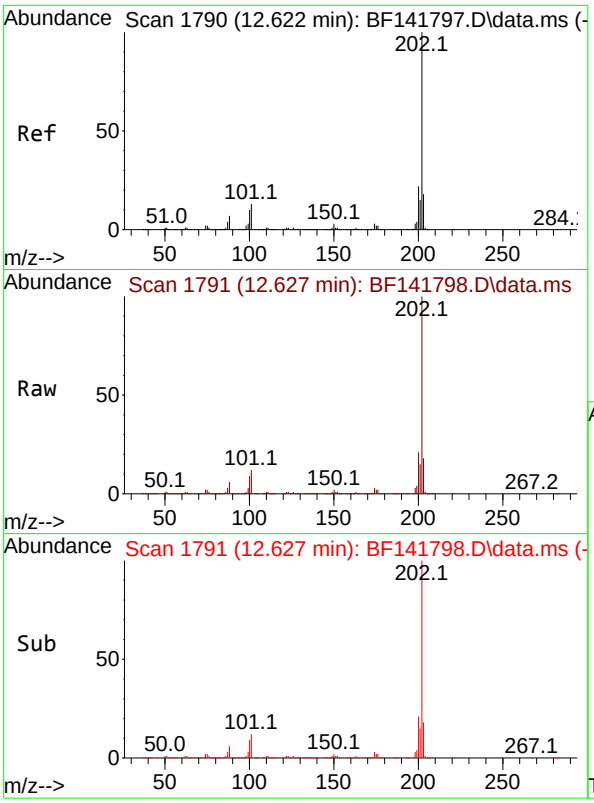


#74
Di-n-butylphthalate
Concen: 46.982 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



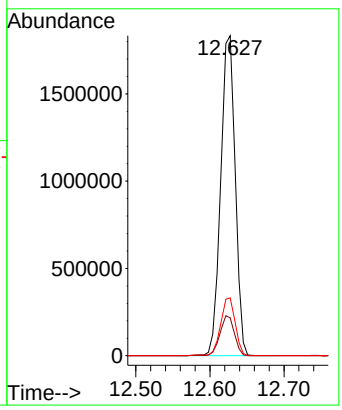


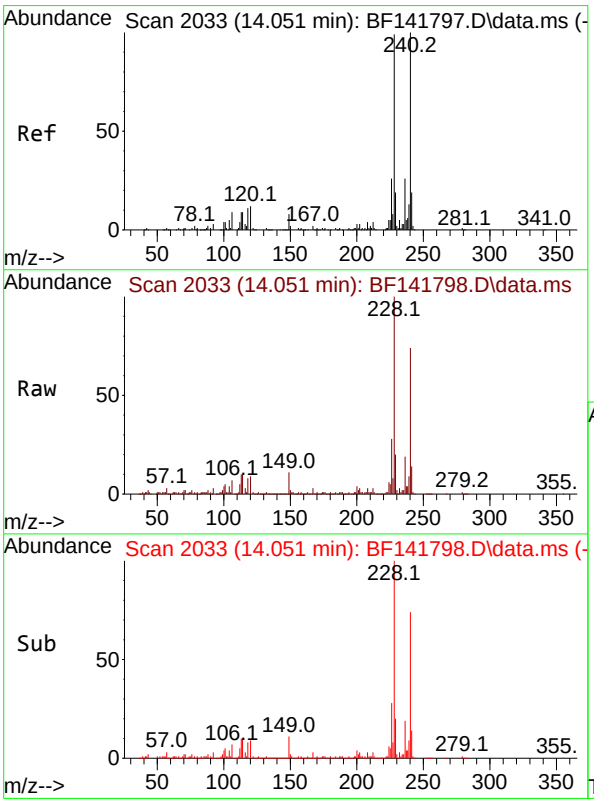
#75
Fluoranthene
Concen: 45.269 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

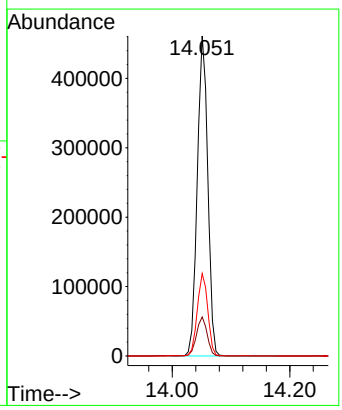


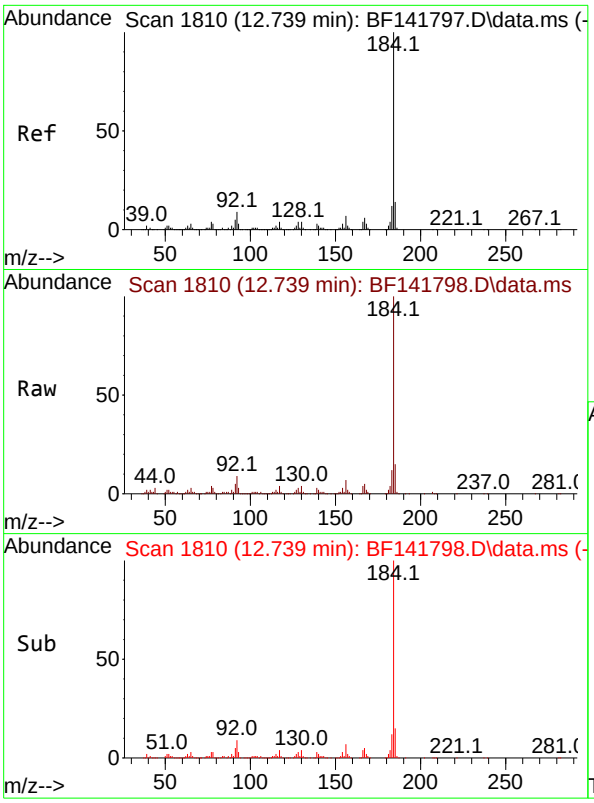


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



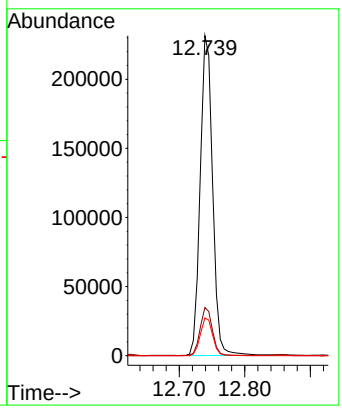


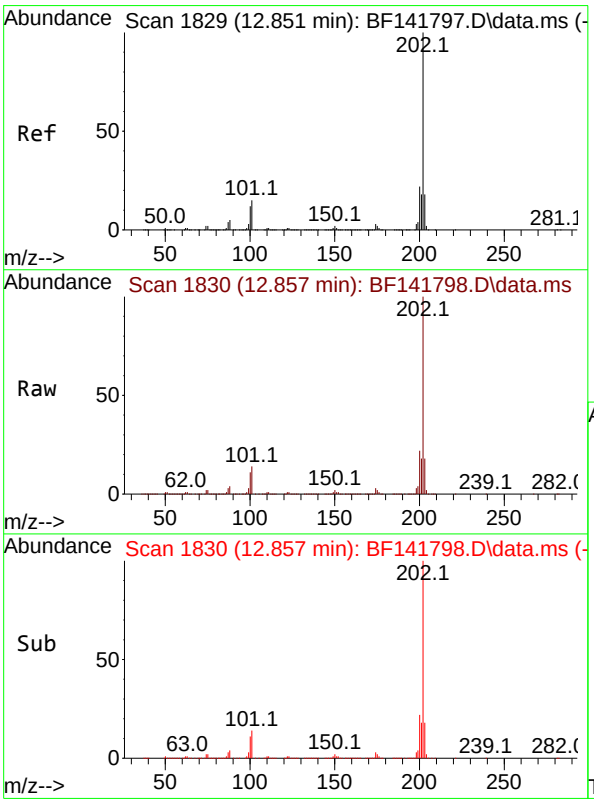
#77
Benzidine
Concen: 42.453 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

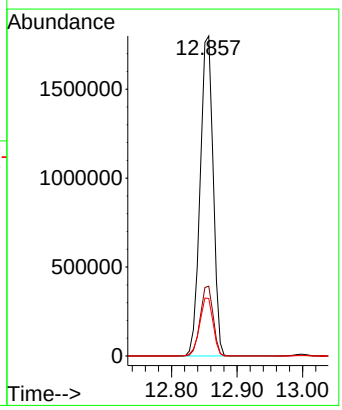


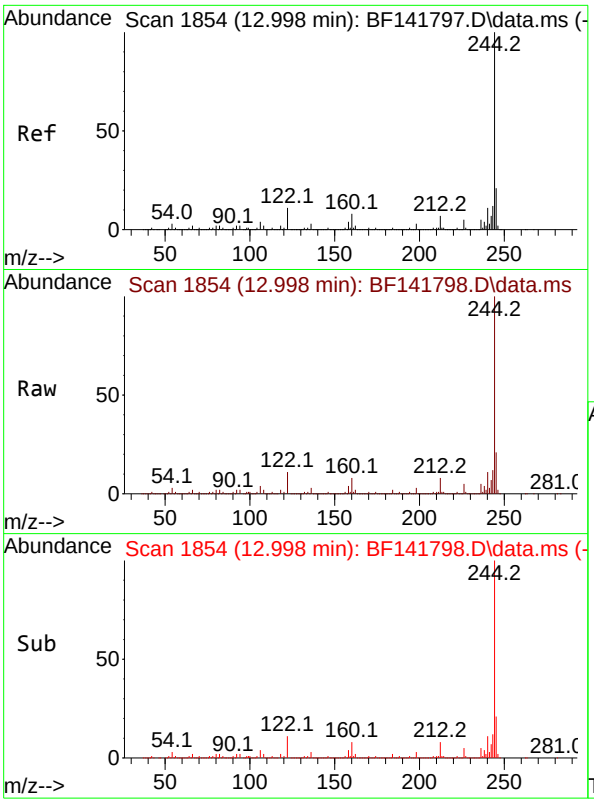


#78
Pyrene
Concen: 50.178 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



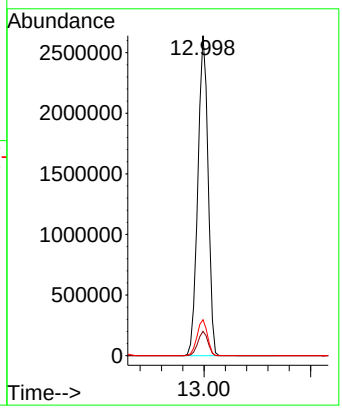


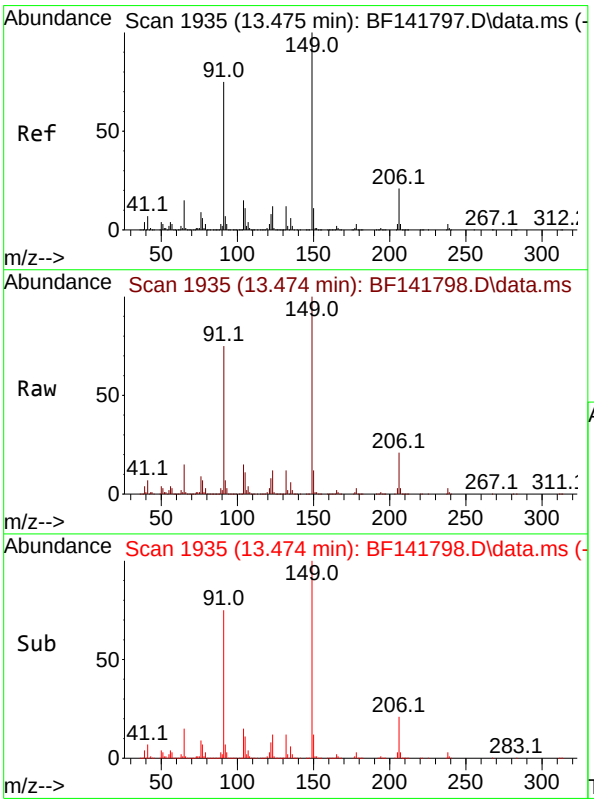
#79
Terphenyl-d14
Concen: 99.483 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

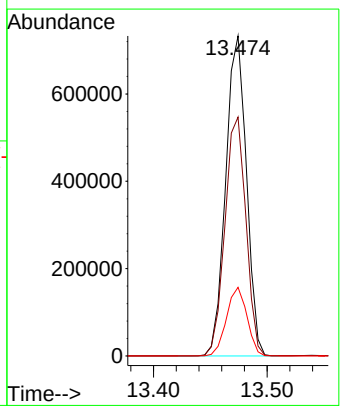


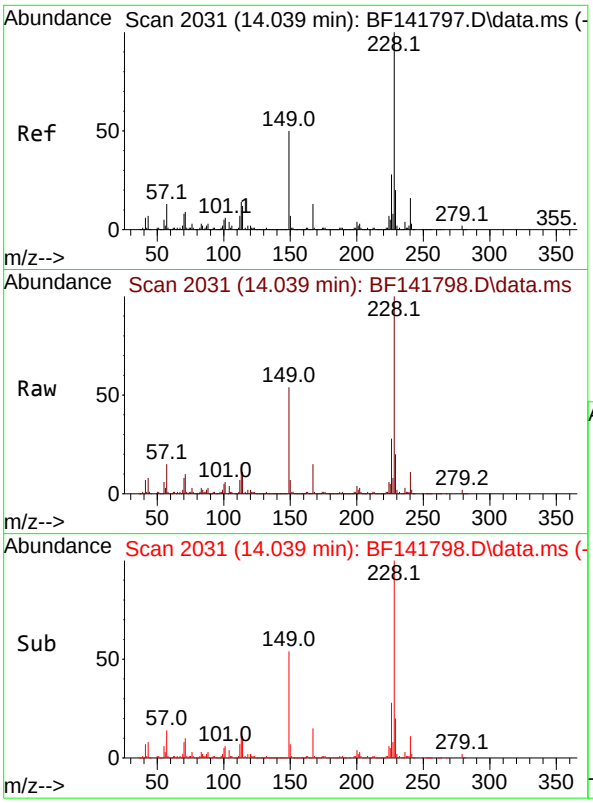


#80
Butylbenzylphthalate
Concen: 51.657 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



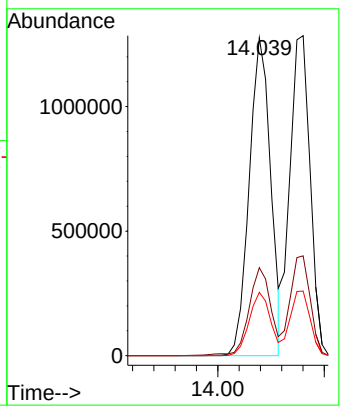


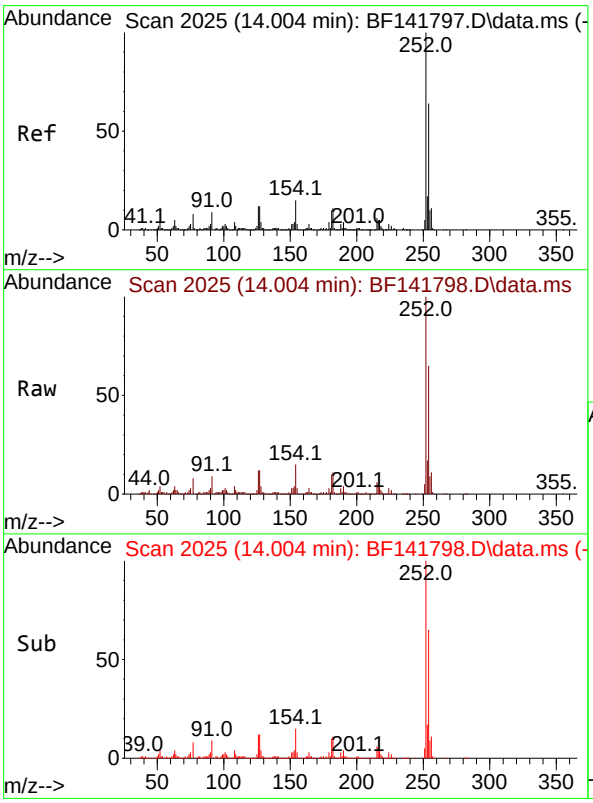
#81
Benzo(a)anthracene
Concen: 47.067 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

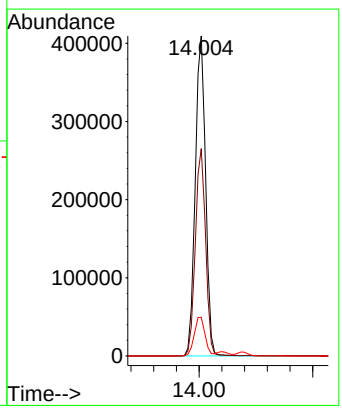


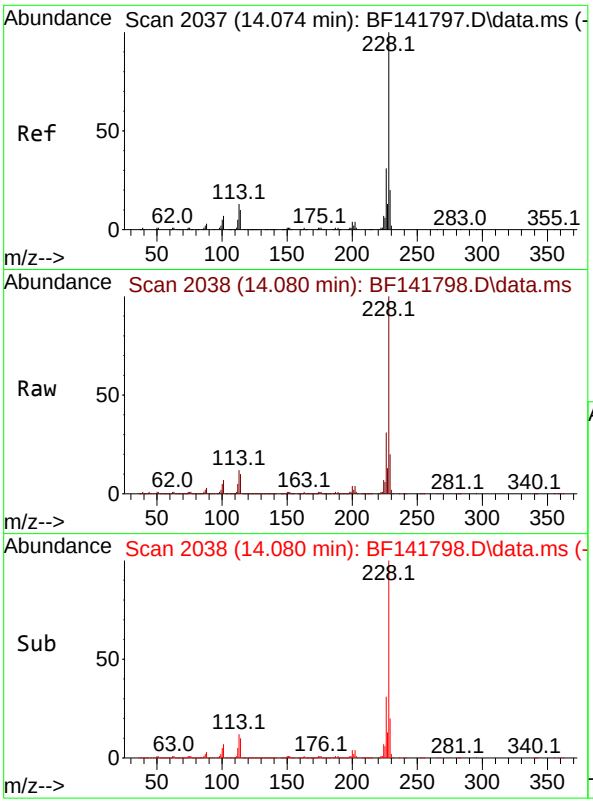


#82
3,3'-Dichlorobenzidine
Concen: 48.021 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



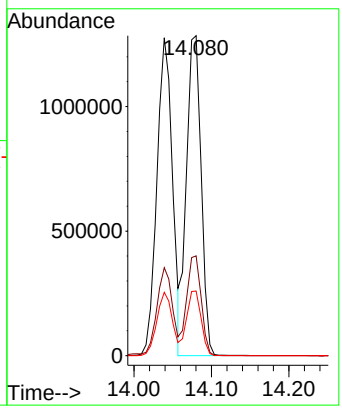


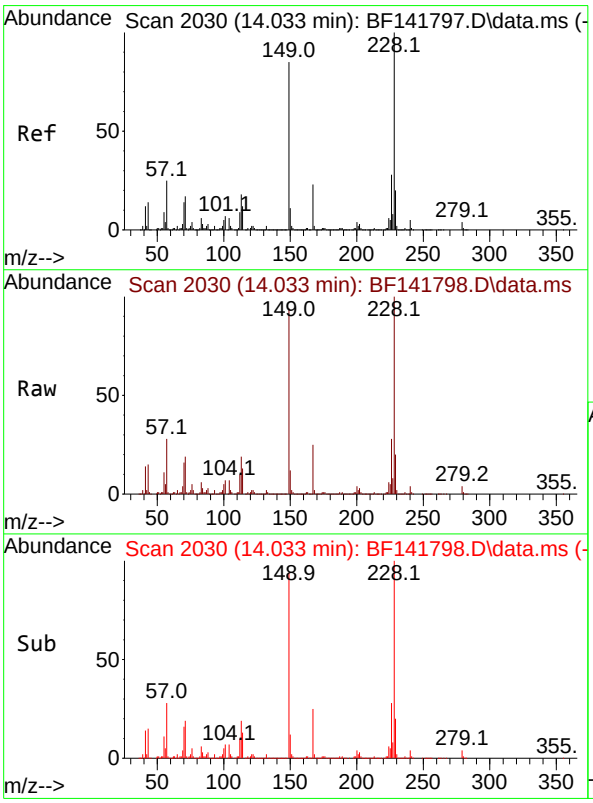
#83
Chrysene
Concen: 48.659 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

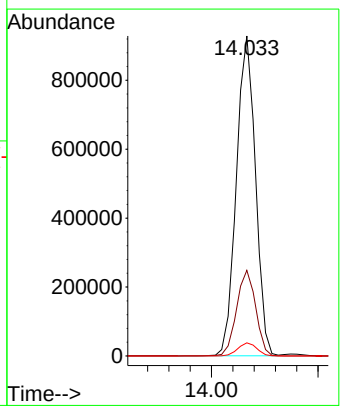


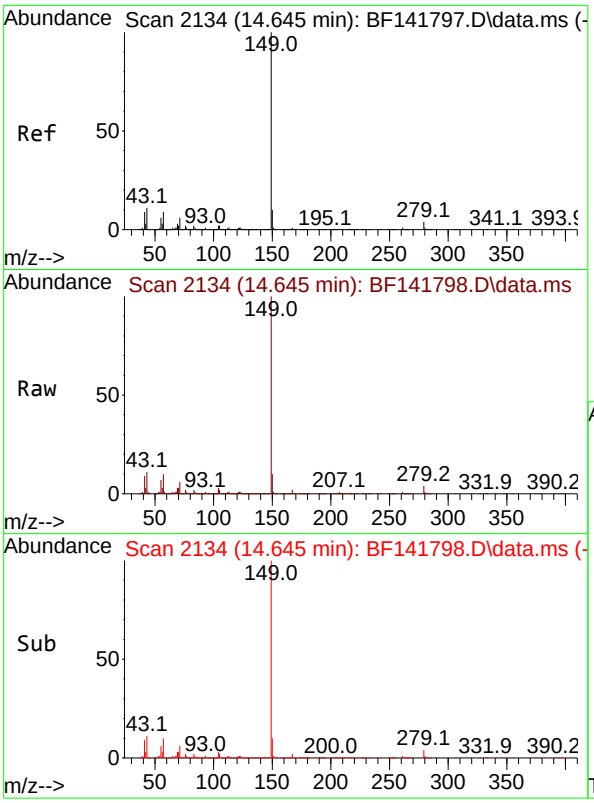


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.766 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



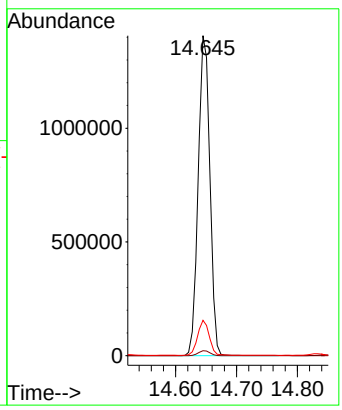


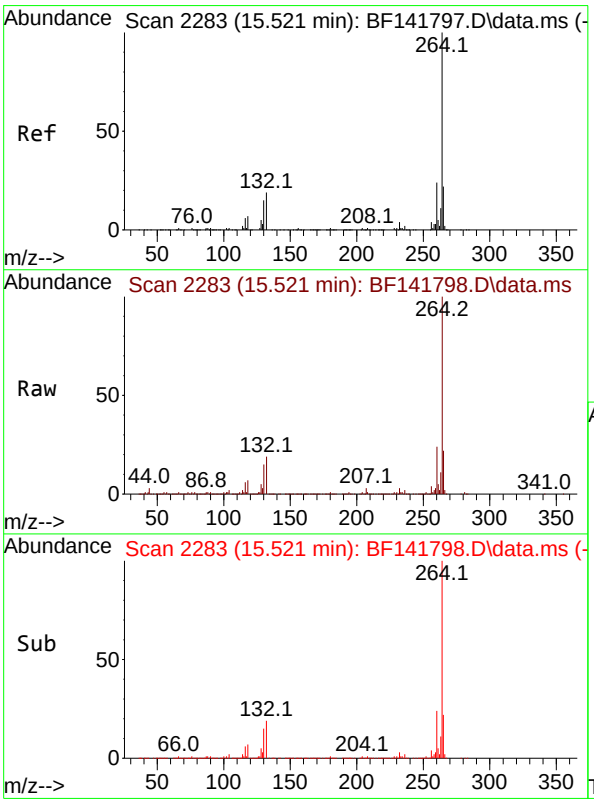
#85
Di-n-octyl phthalate
Concen: 55.606 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

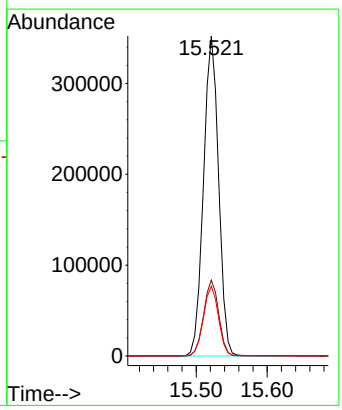


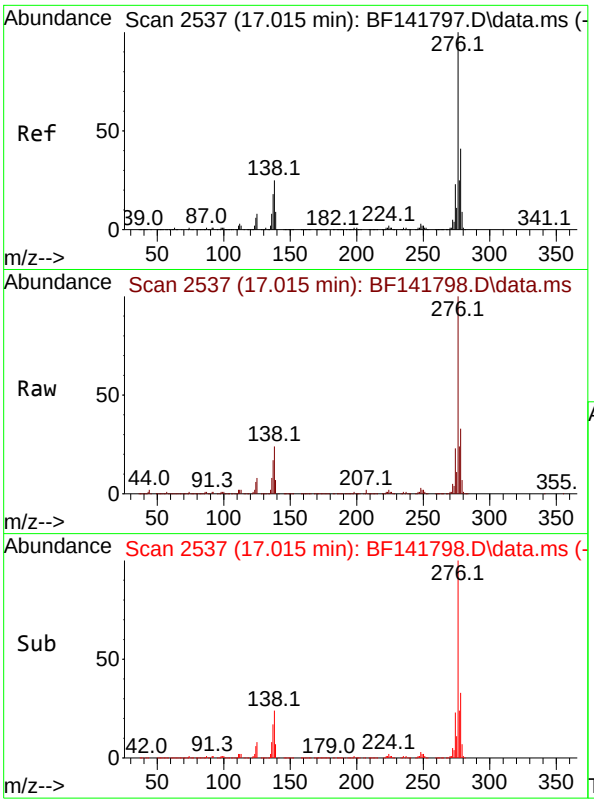


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



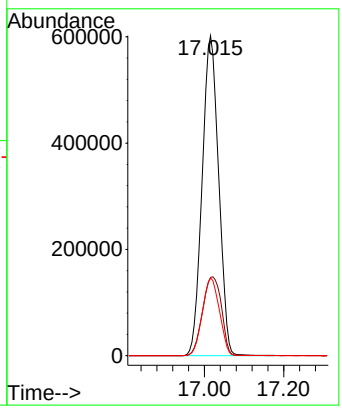


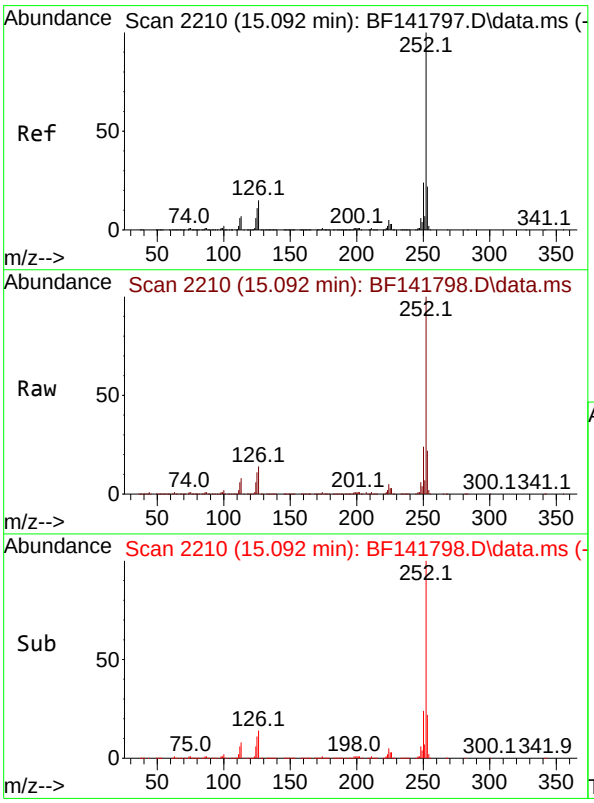
#87
Indeno(1,2,3-cd)pyrene
Concen: 52.510 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

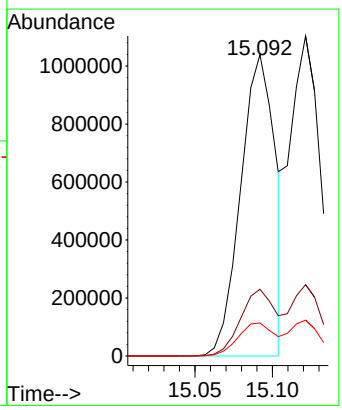


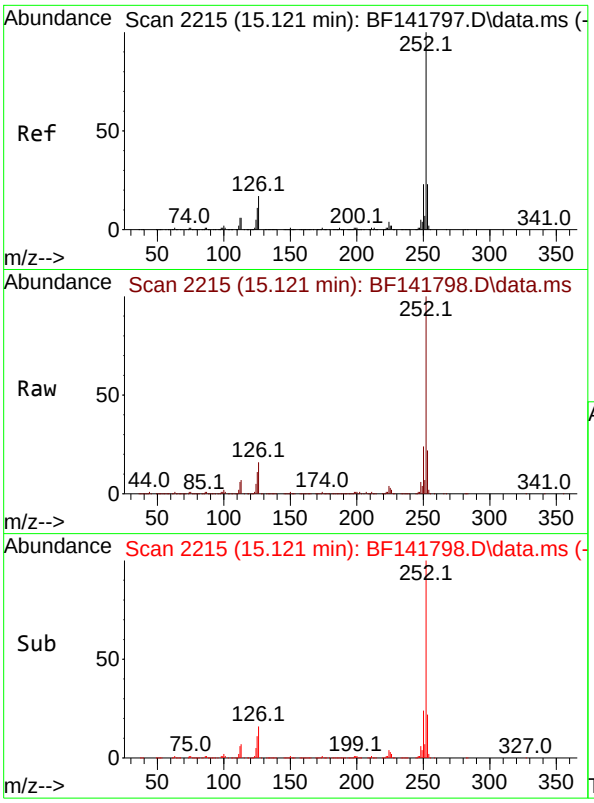


#88
Benzo(b)fluoranthene
Concen: 45.220 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



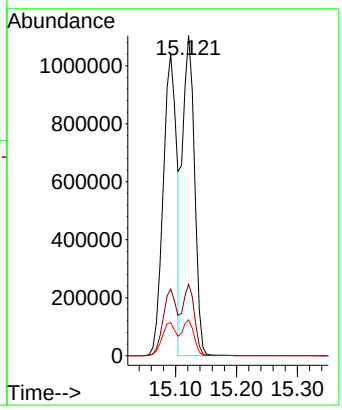


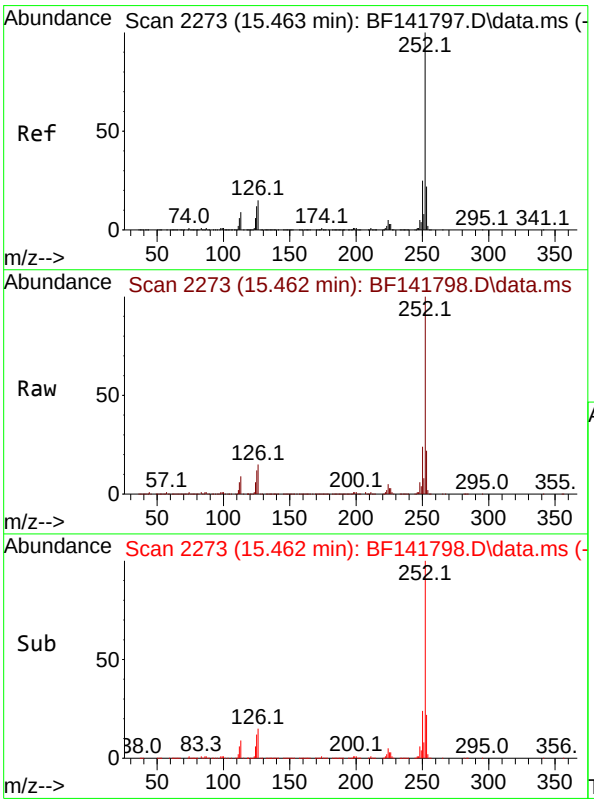
#89
Benzo(k)fluoranthene
Concen: 50.326 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

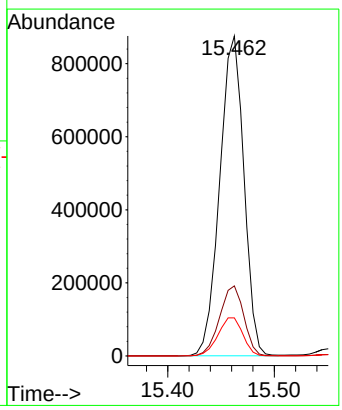


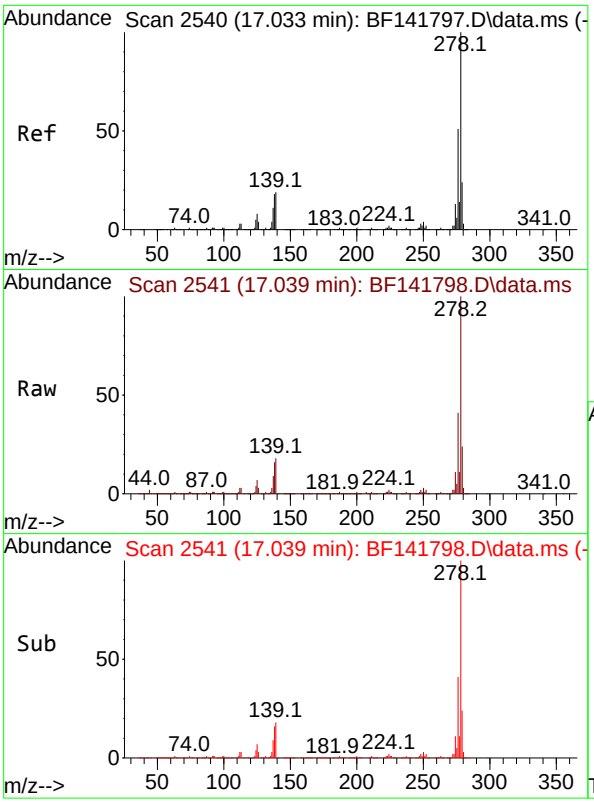


#90
Benzo(a)pyrene
Concen: 48.495 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



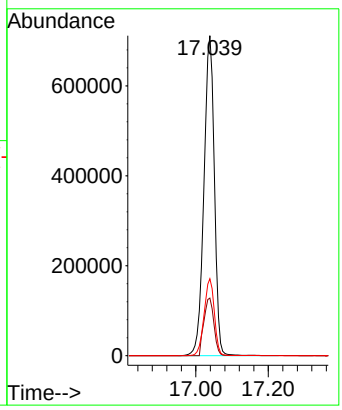


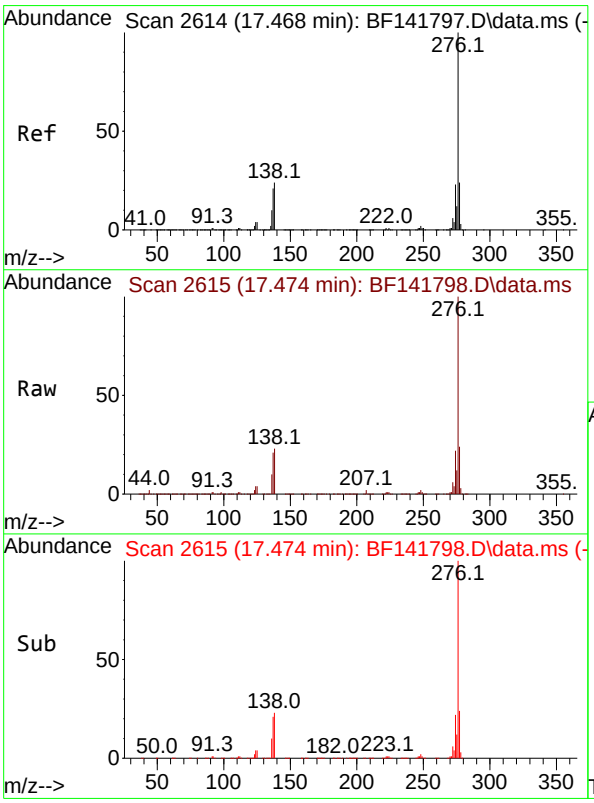
#91
Dibenzo(a,h)anthracene
Concen: 52.616 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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

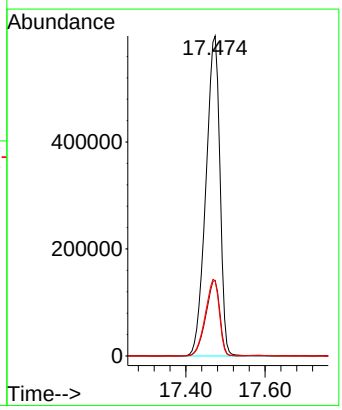




#92
Benzo(g,h,i)perylene
Concen: 53.005 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141798.D
Acq: 27 Feb 2025 17:46

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



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

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

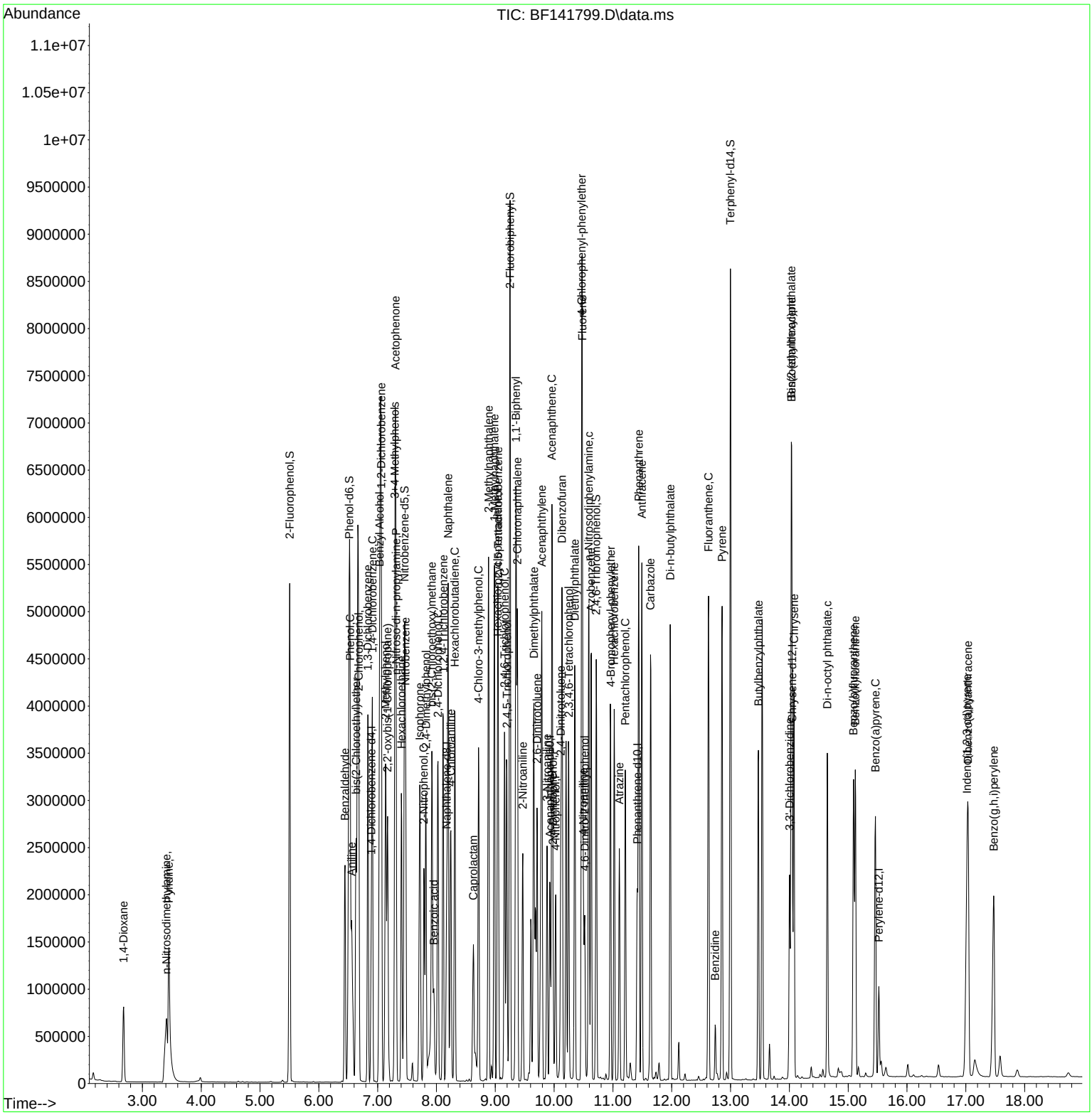
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	703662	61.725	ng		99
46) 1,1'-Biphenyl	9.351	154	2626139	55.911	ng		99
47) 2-Chloronaphthalene	9.375	162	1982513	57.187	ng		99
48) 2-Nitroaniline	9.469	65	590092	60.902	ng		98
49) Acenaphthylene	9.792	152	2954653	56.845	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

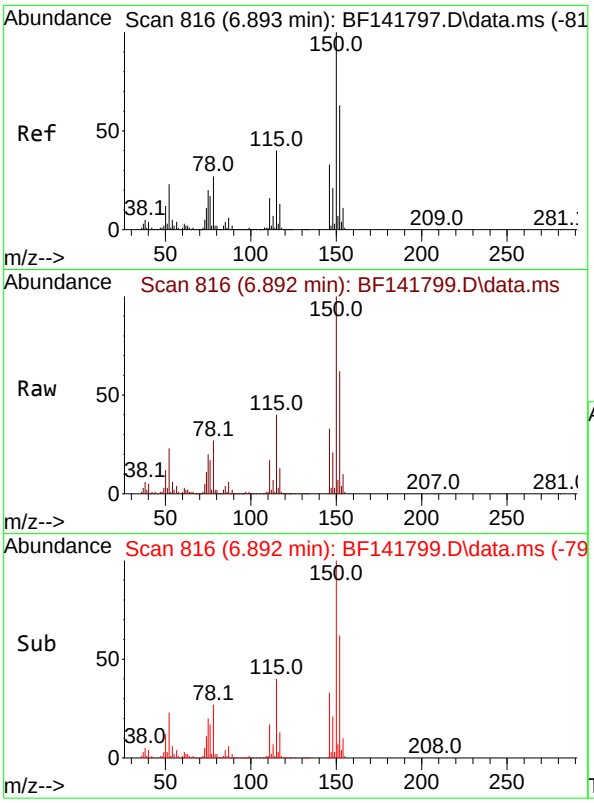
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



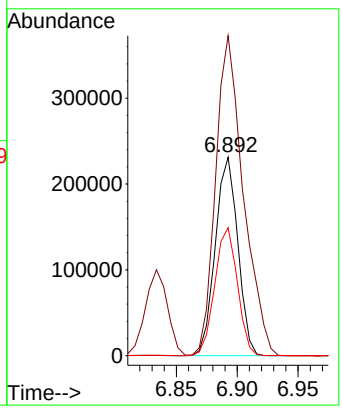


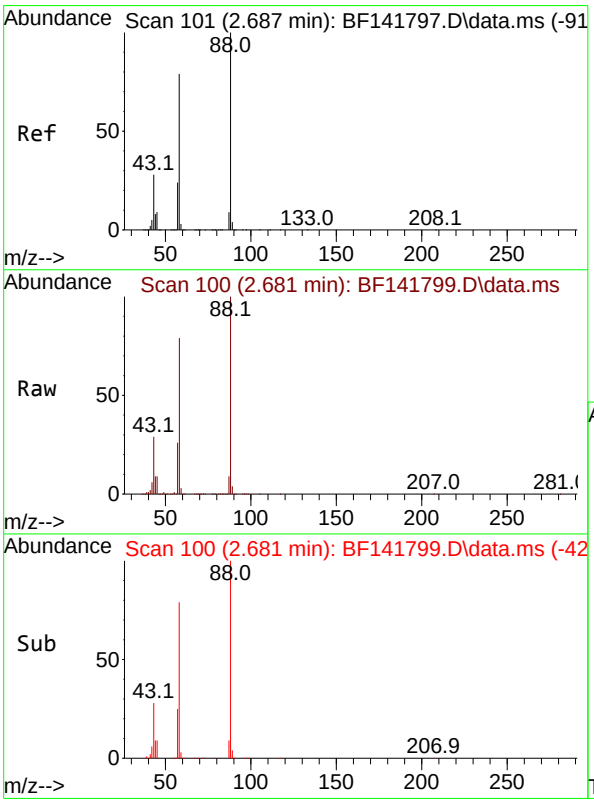
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

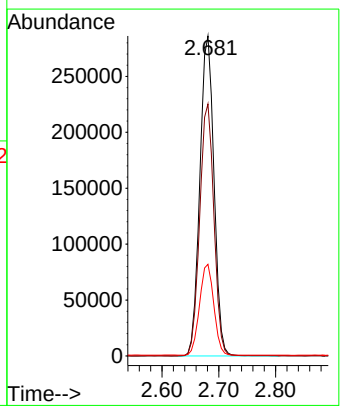


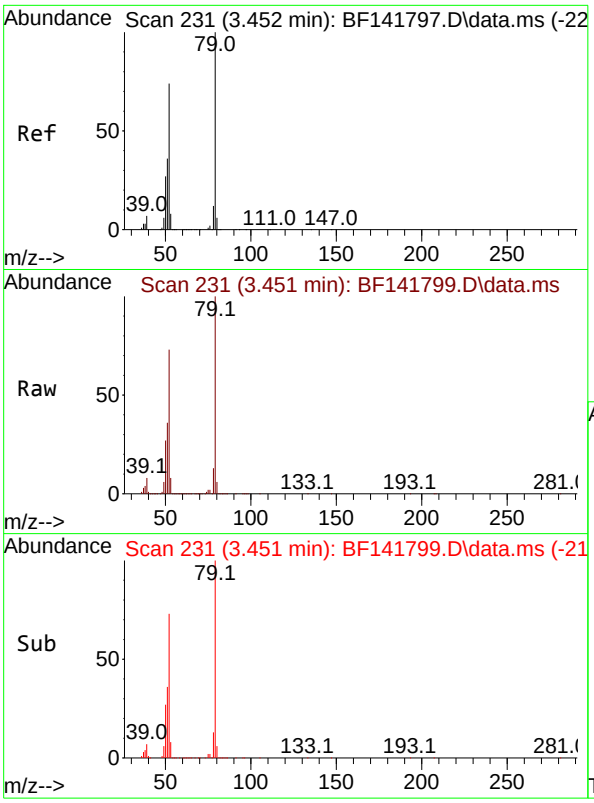


#2
1,4-Dioxane
Concen: 58.455 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



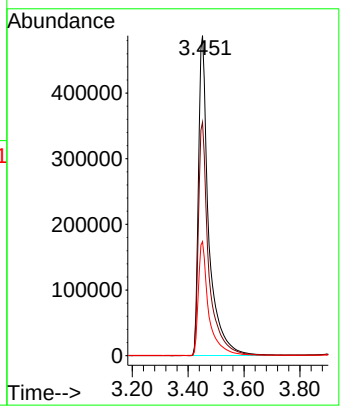


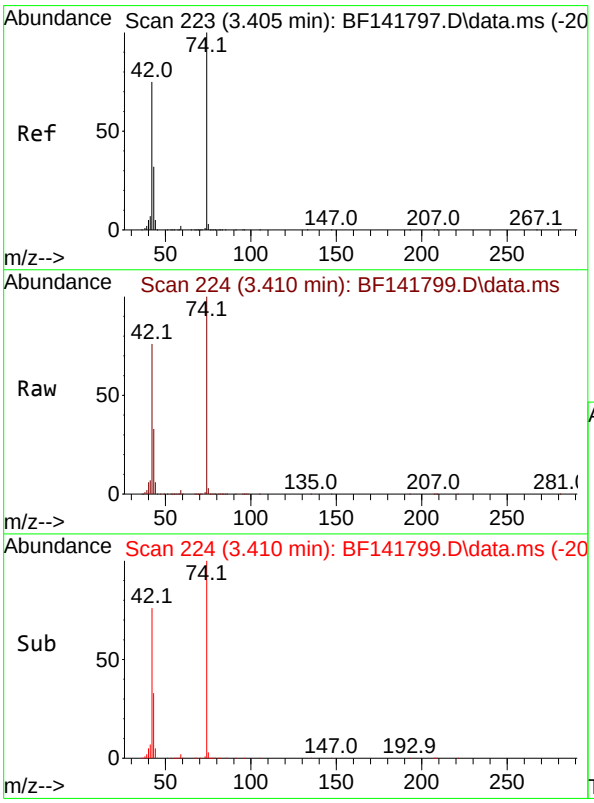
#3
Pyridine
Concen: 58.955 ng
RT: 3.451 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

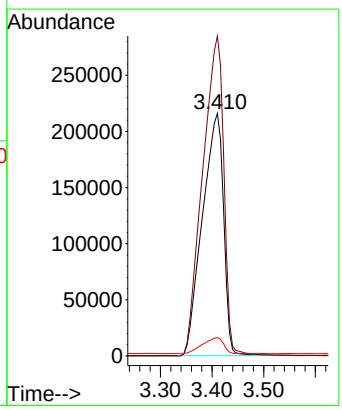


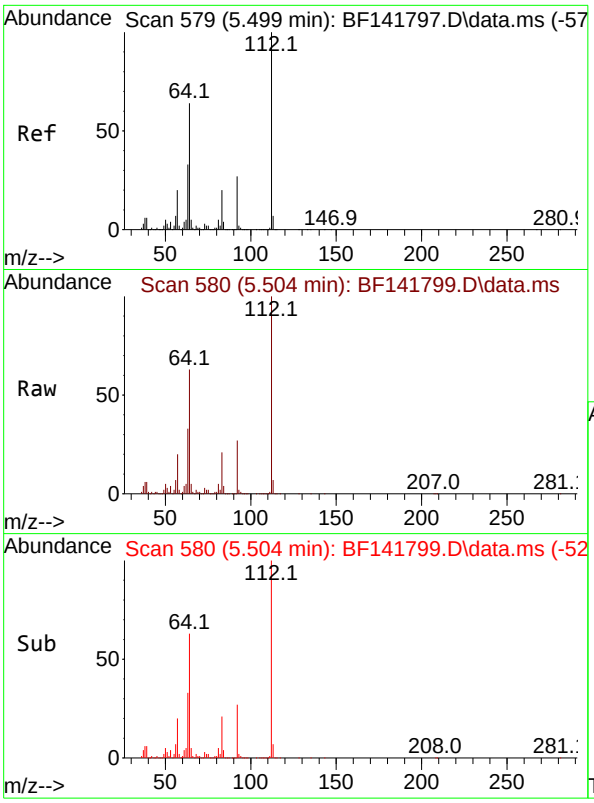


#4
n-Nitrosodimethylamine
Concen: 60.489 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



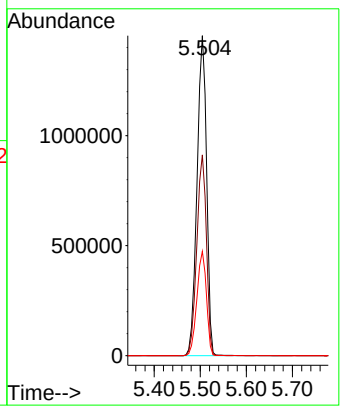


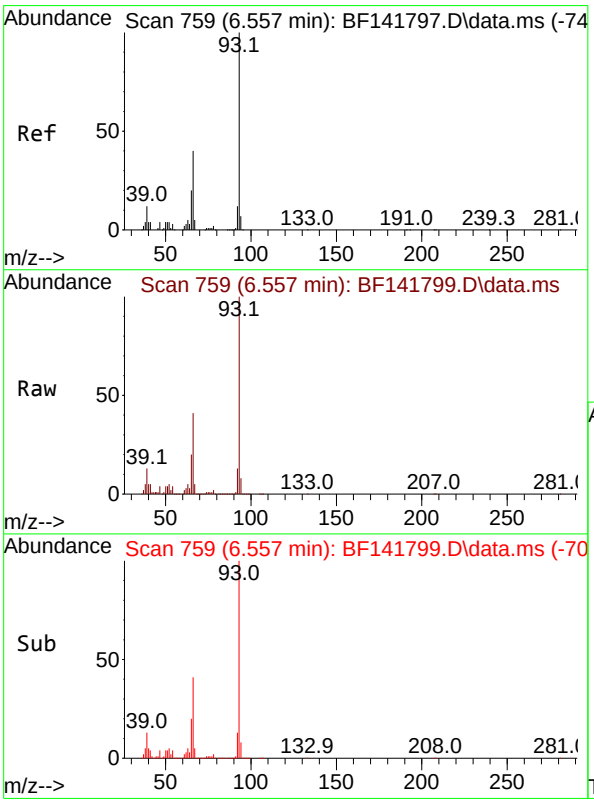
#5
2-Fluorophenol
Concen: 112.657 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

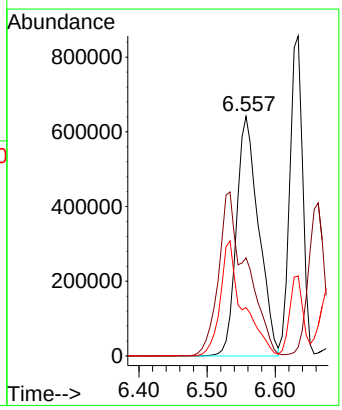


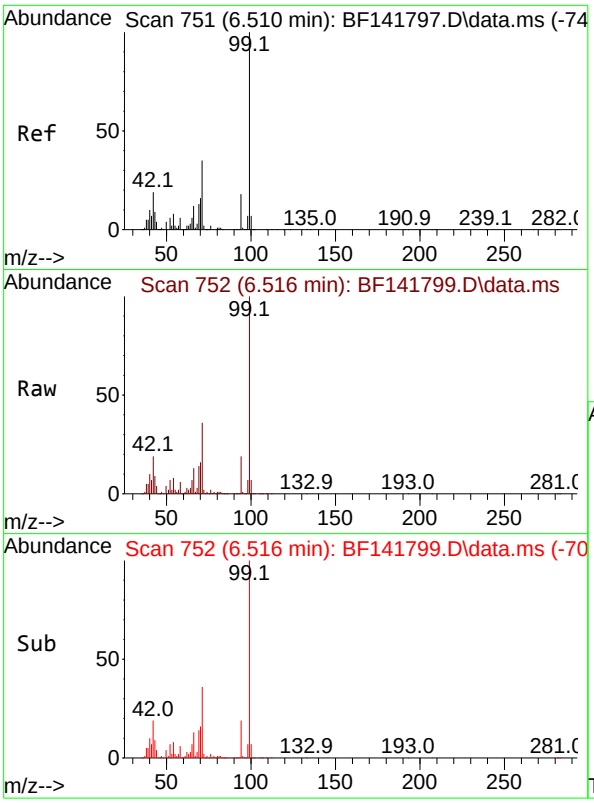


#6
Aniline
Concen: 57.840 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



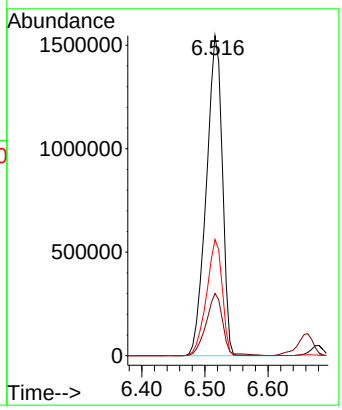


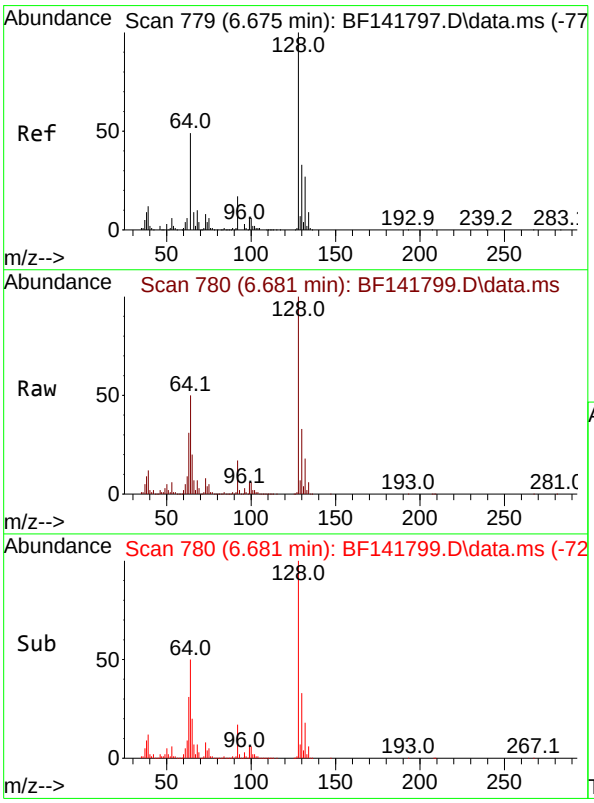
#7
Phenol-d6
Concen: 112.117 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

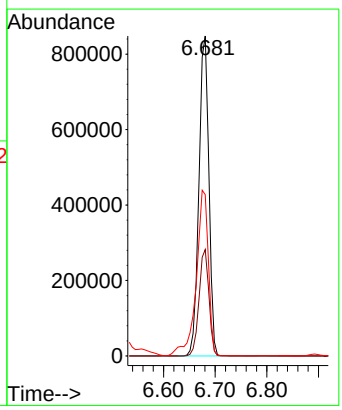


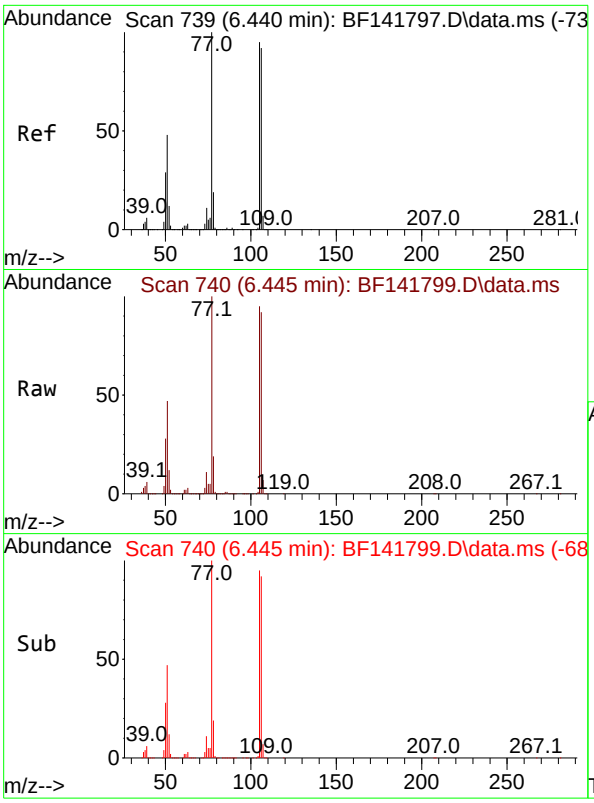


#8
2-Chlorophenol
Concen: 56.061 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



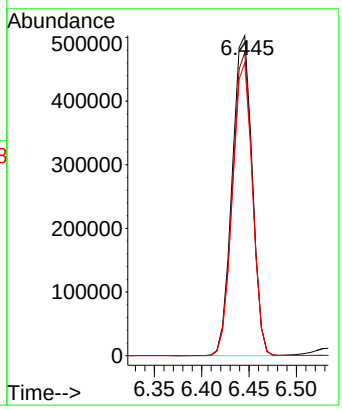


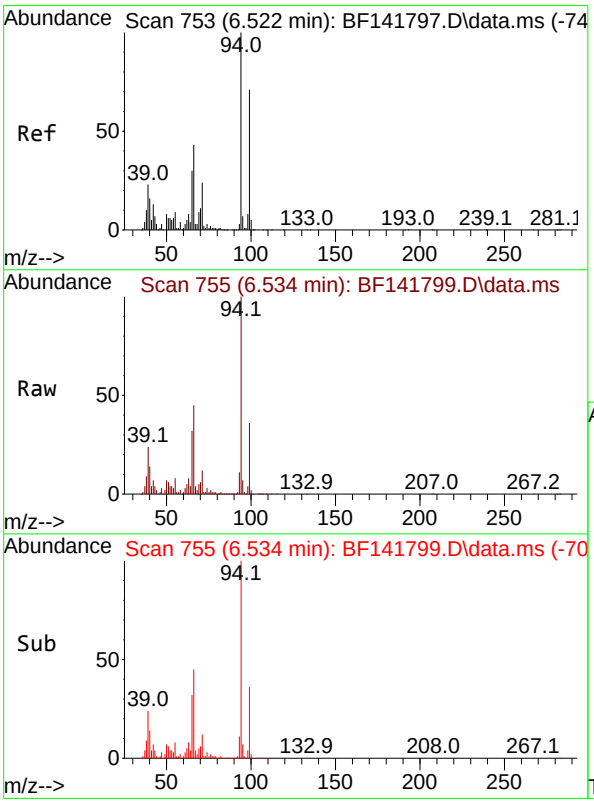
#9
Benzaldehyde
Concen: 52.156 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

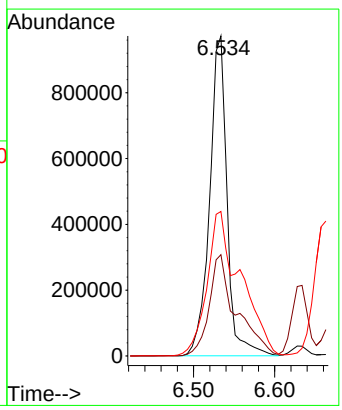


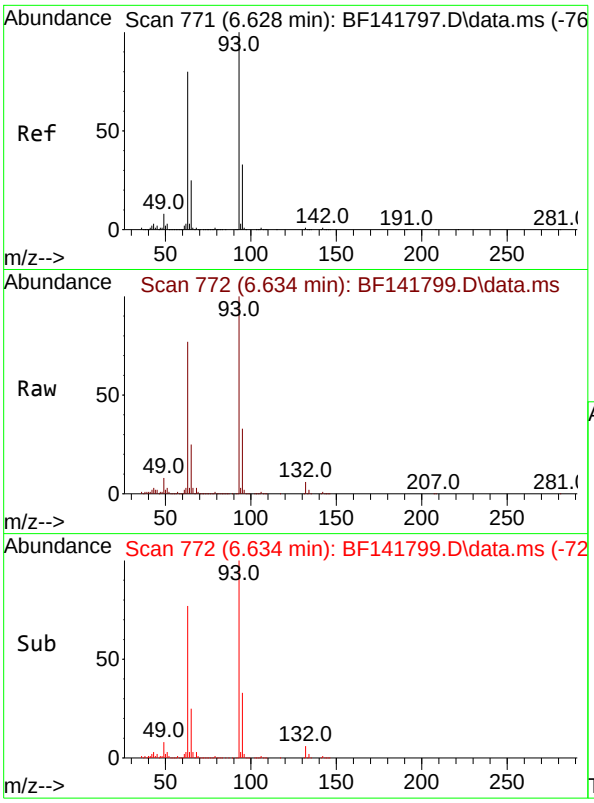


#10
Phenol
Concen: 56.130 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



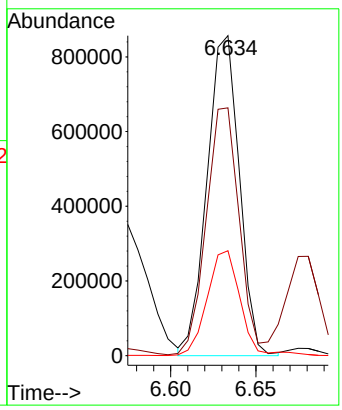


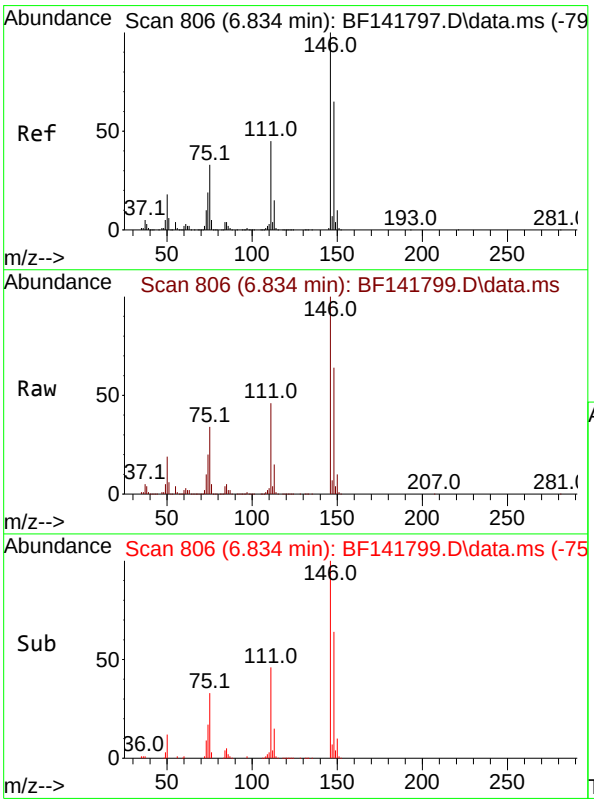
#11
bis(2-Chloroethyl)ether
Concen: 57.184 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

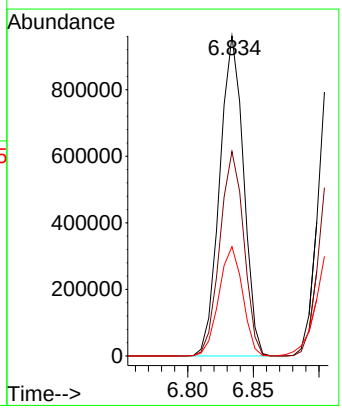


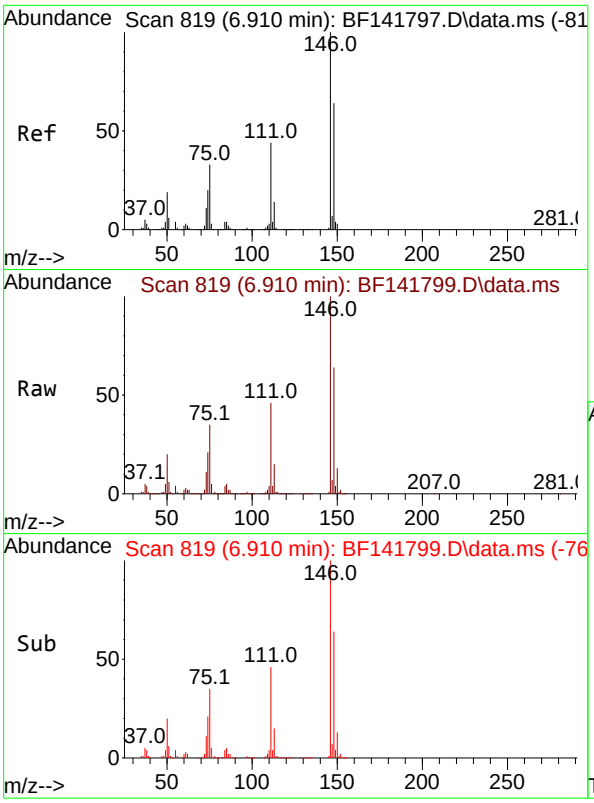


#12
1,3-Dichlorobenzene
Concen: 56.273 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



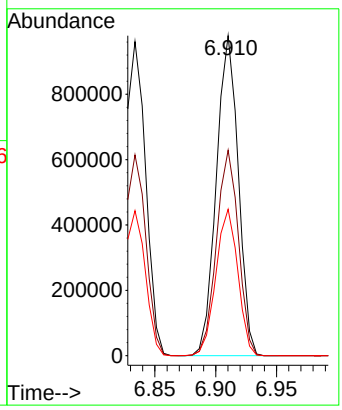


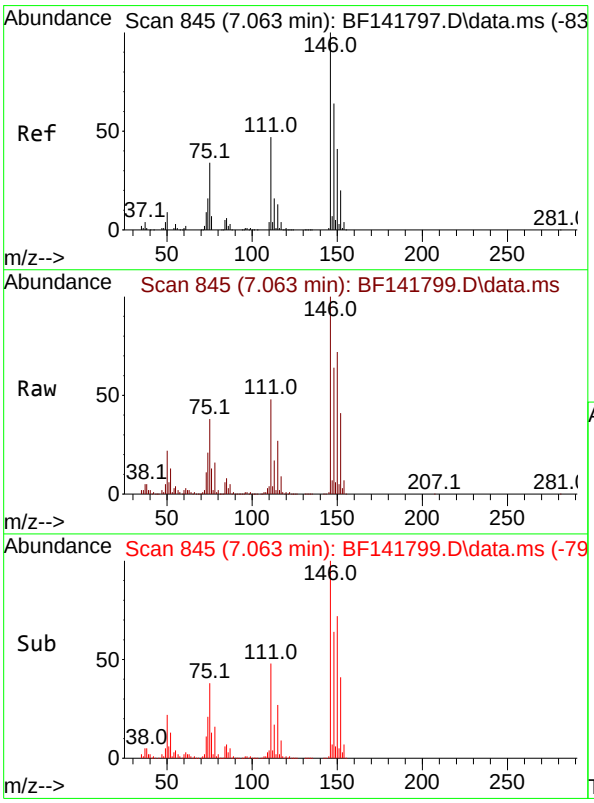
#13
1,4-Dichlorobenzene
Concen: 56.536 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

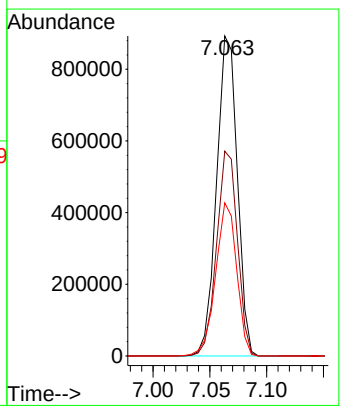


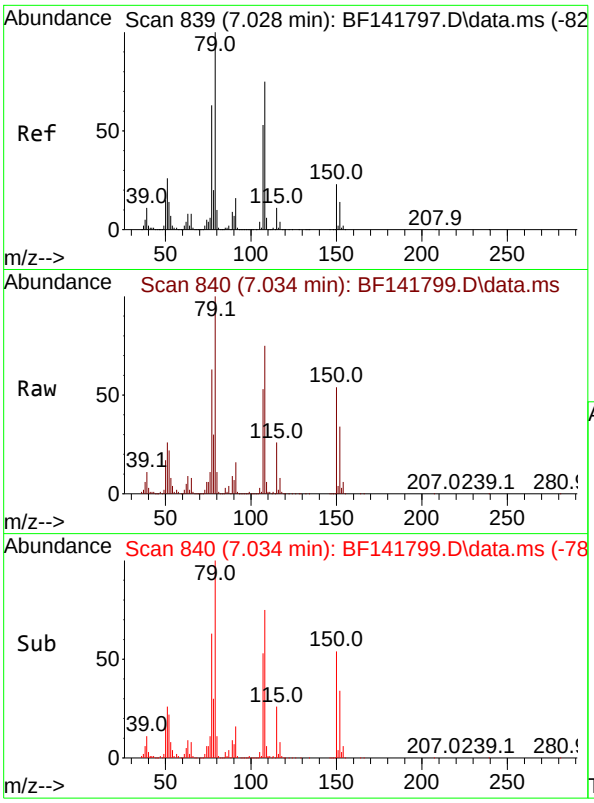


#14
1,2-Dichlorobenzene
Concen: 55.834 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



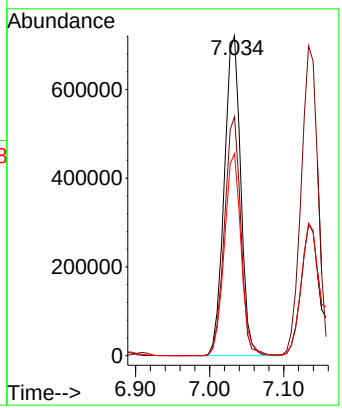


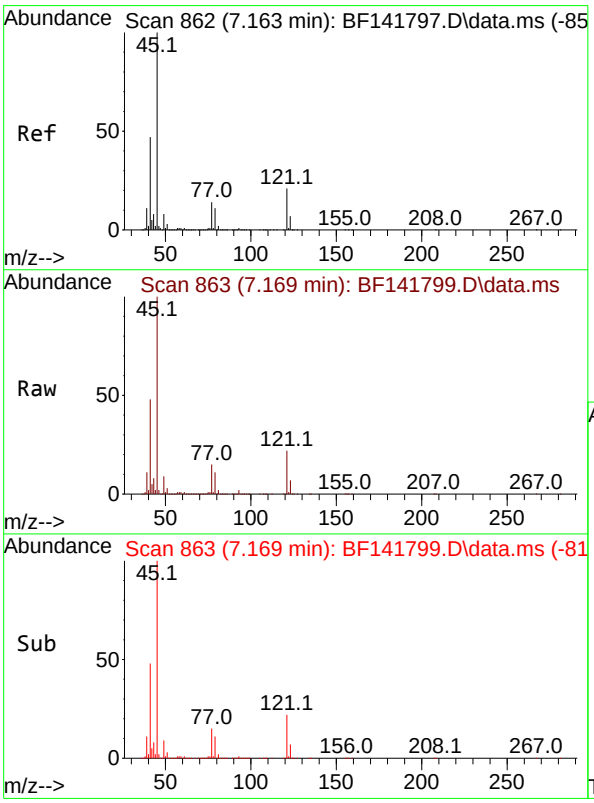
#15
Benzyl Alcohol
Concen: 57.170 ng
RT: 7.034 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

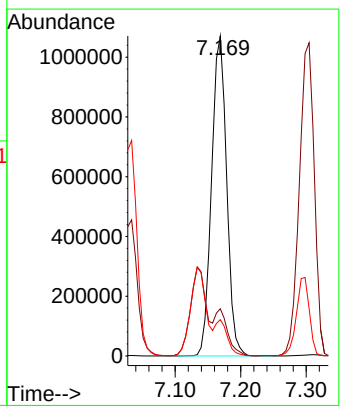


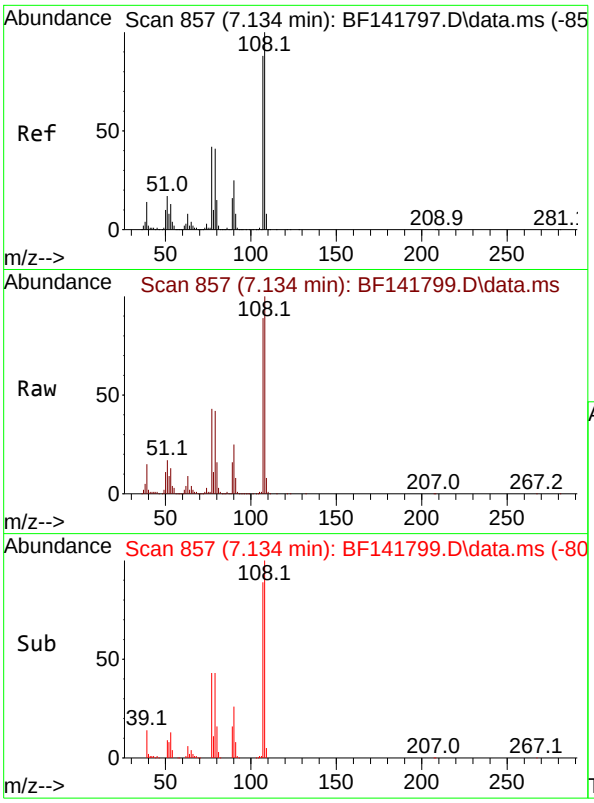


#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.838 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



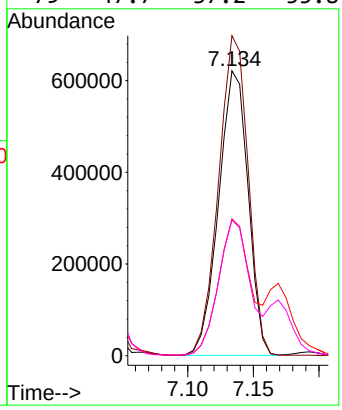


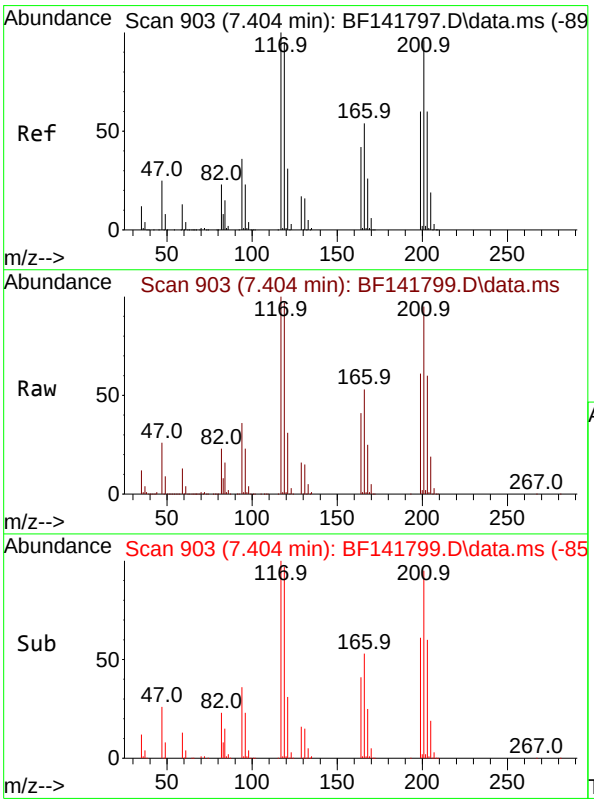
#17
2-Methylphenol
Concen: 58.177 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

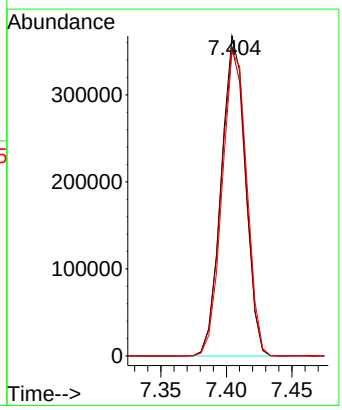


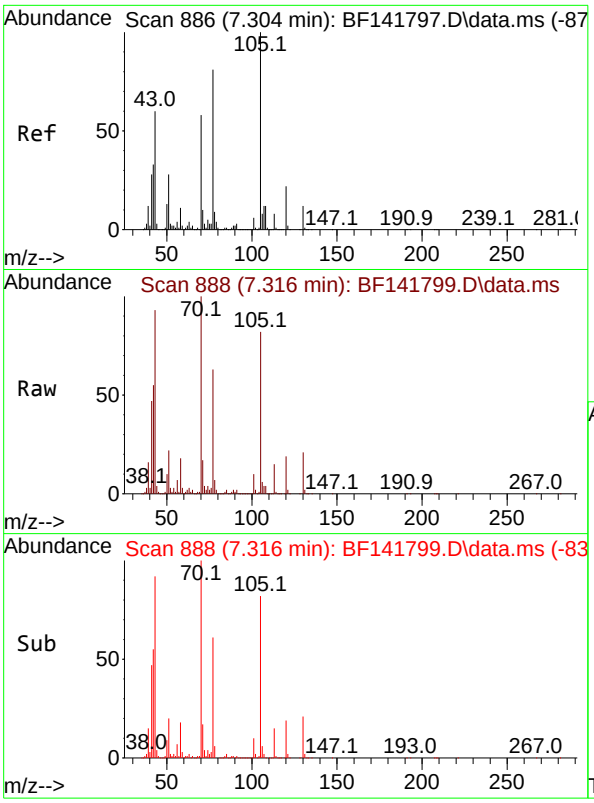


#18
Hexachloroethane
Concen: 58.163 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



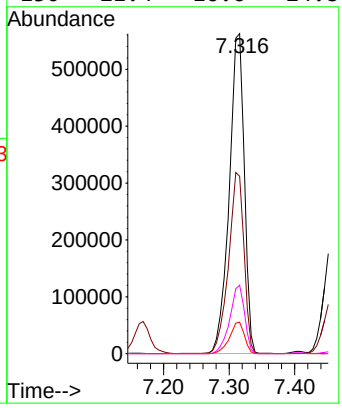


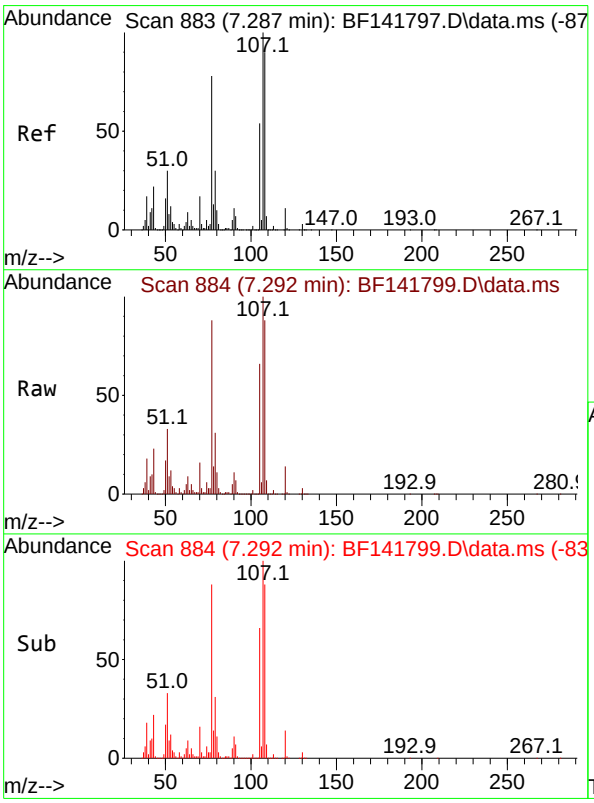
#19
n-Nitroso-di-n-propylamine
Concen: 56.387 ng
RT: 7.316 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

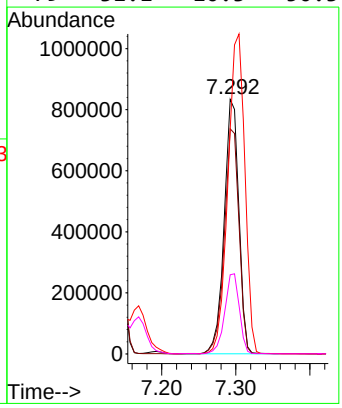


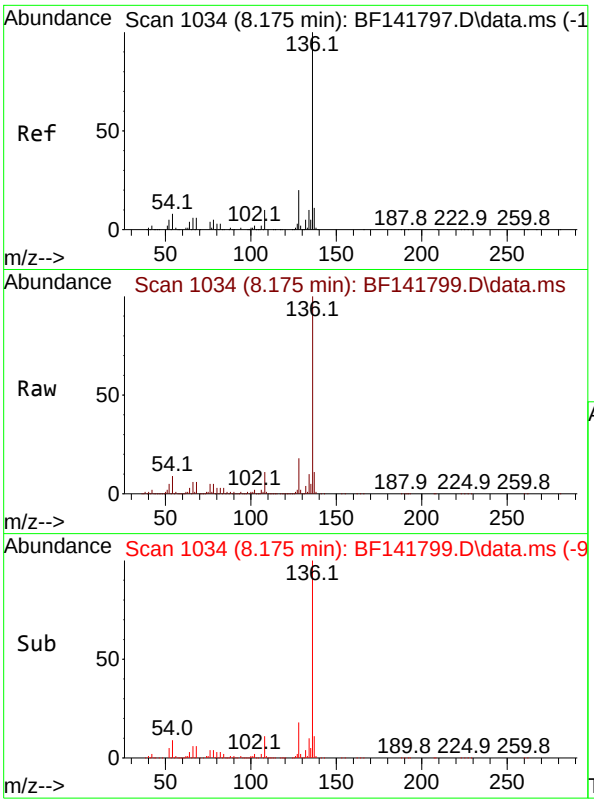


#20
3+4-Methylphenols
Concen: 55.188 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



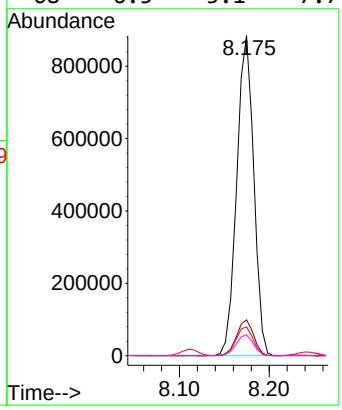


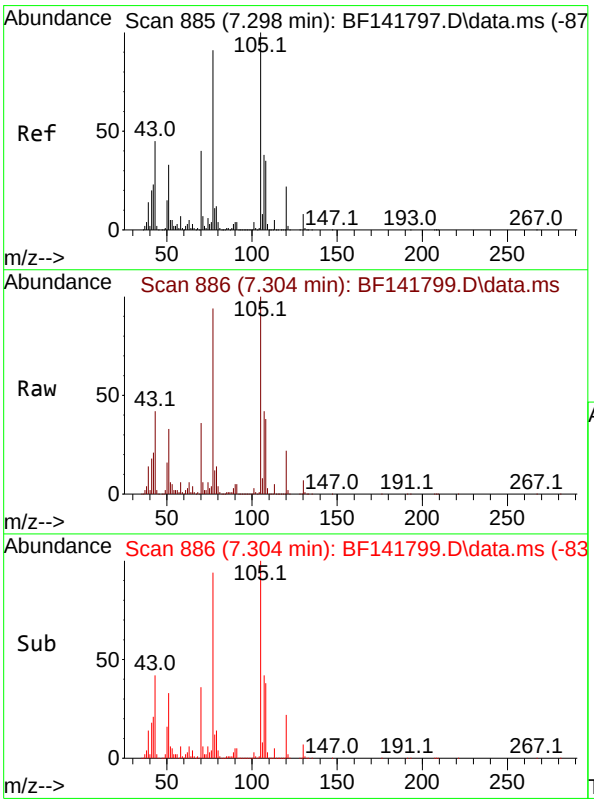
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

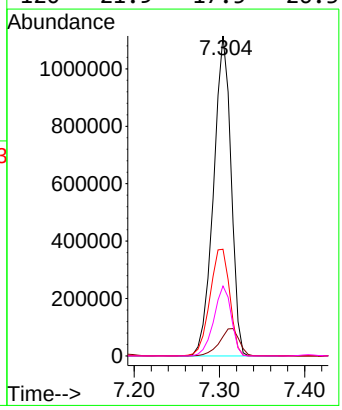


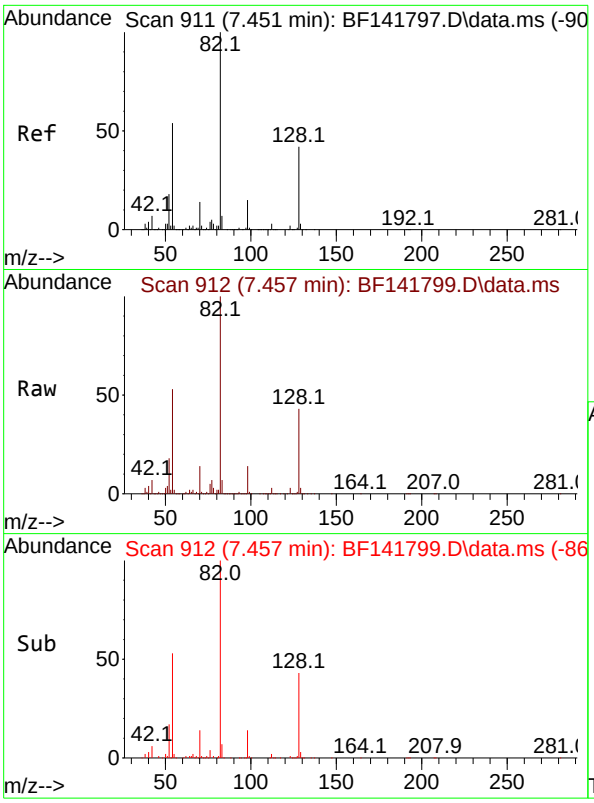


#22
Acetophenone
Concen: 56.070 ng
RT: 7.304 min Scan# 886
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



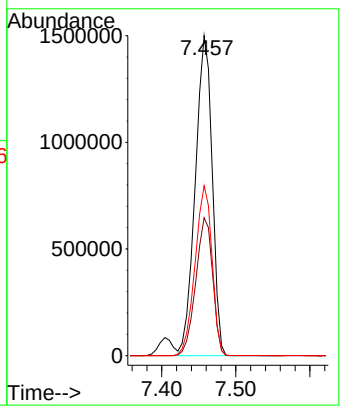


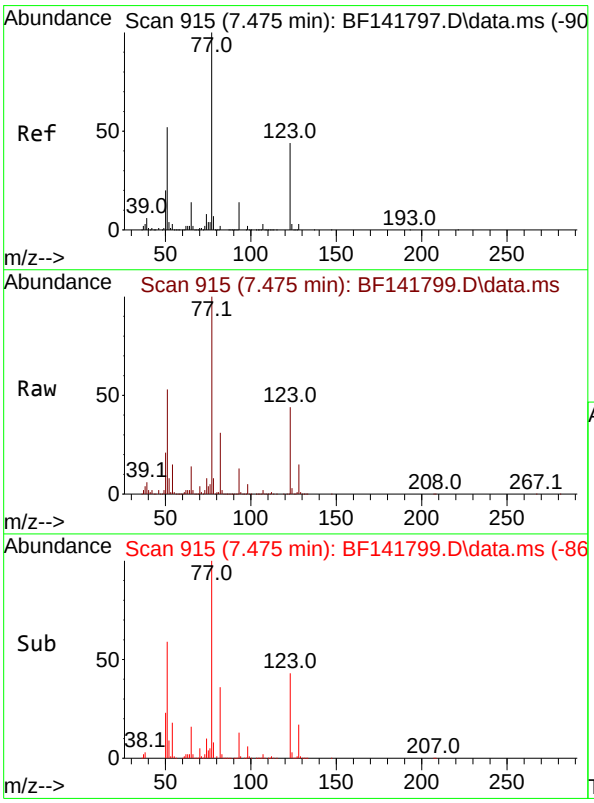
#23
Nitrobenzene-d5
Concen: 130.503 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

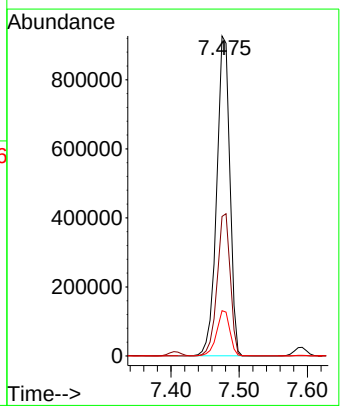


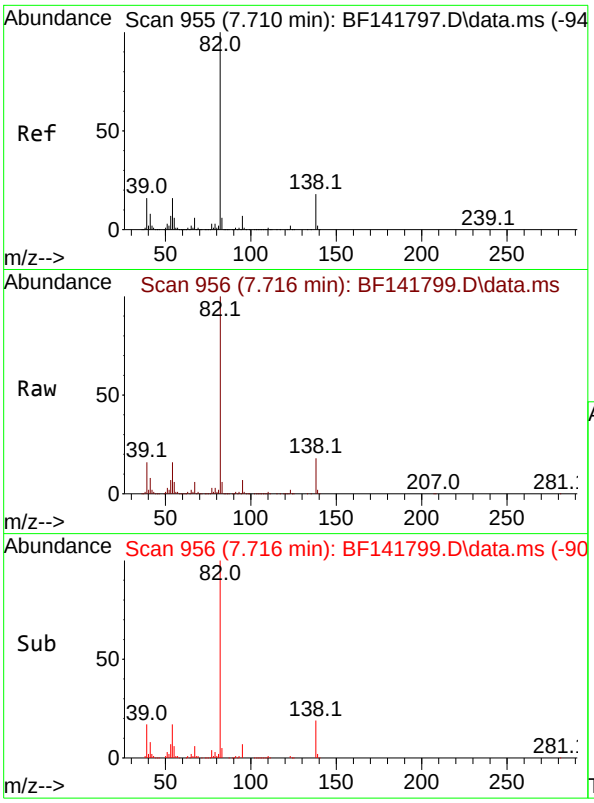


#24
Nitrobenzene
Concen: 63.867 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



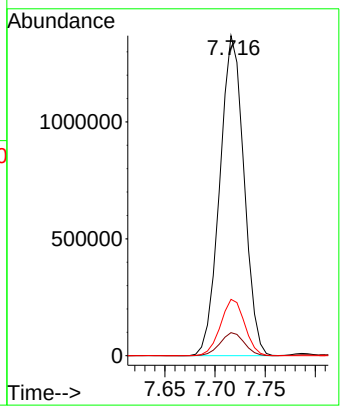


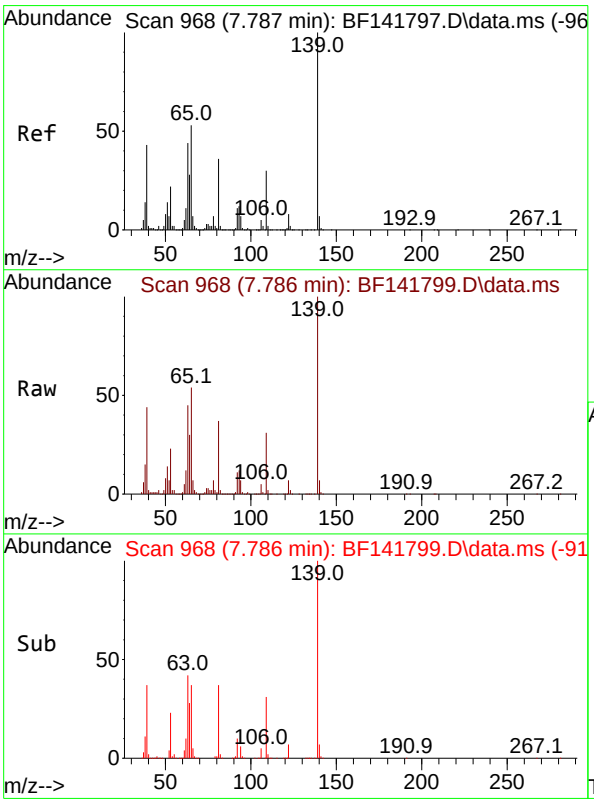
#25
Isophorone
Concen: 58.786 ng
RT: 7.716 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

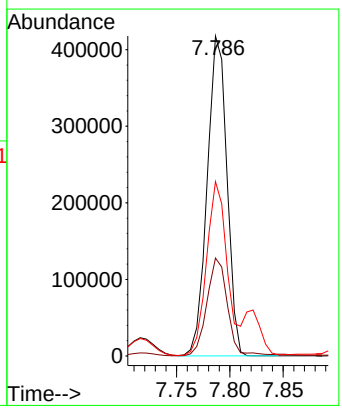


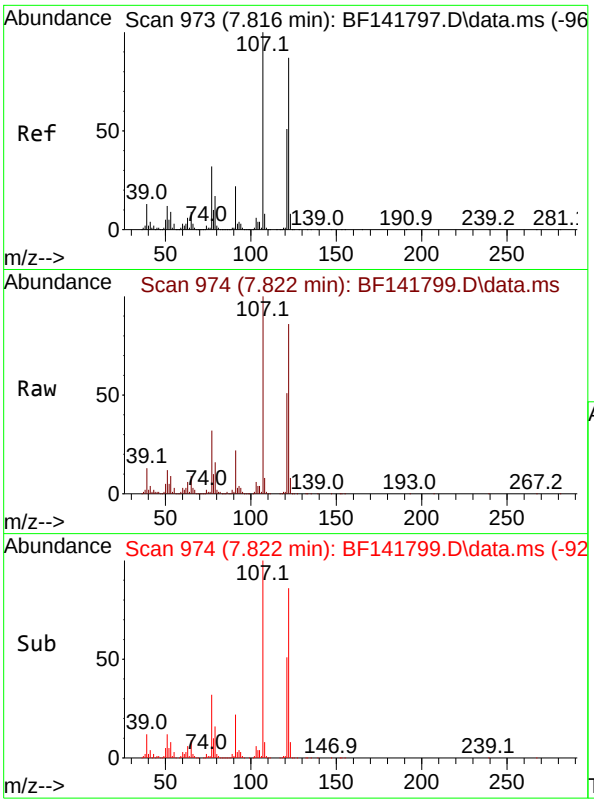


#26
2-Nitrophenol
Concen: 60.712 ng
RT: 7.786 min Scan# 968
Delta R.T. -0.001 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



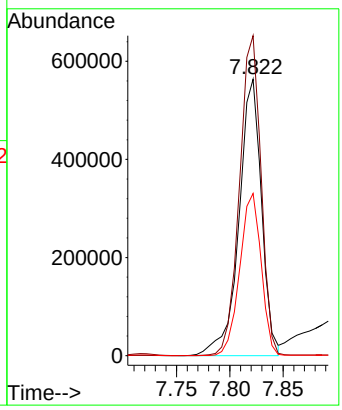


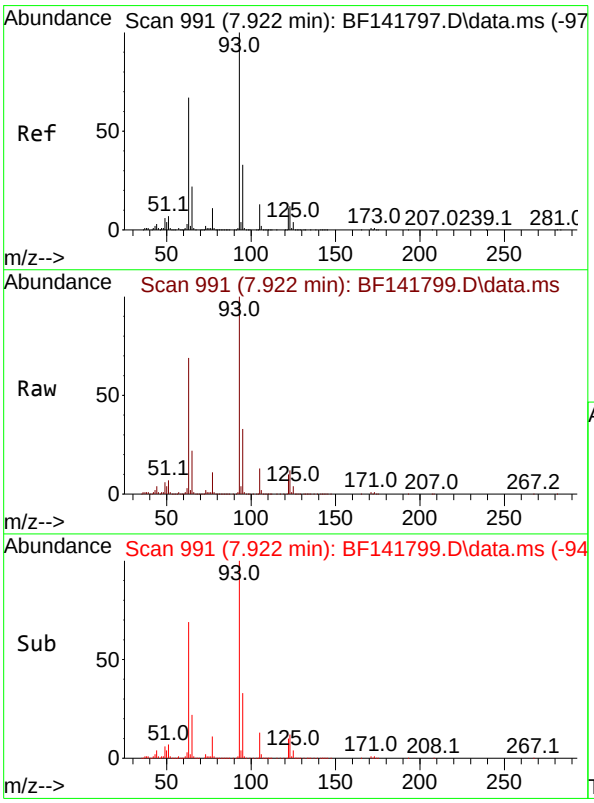
#27
2,4-Dimethylphenol
Concen: 57.912 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

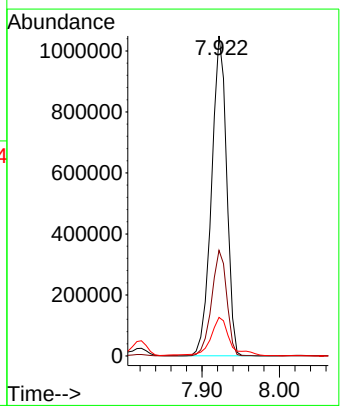


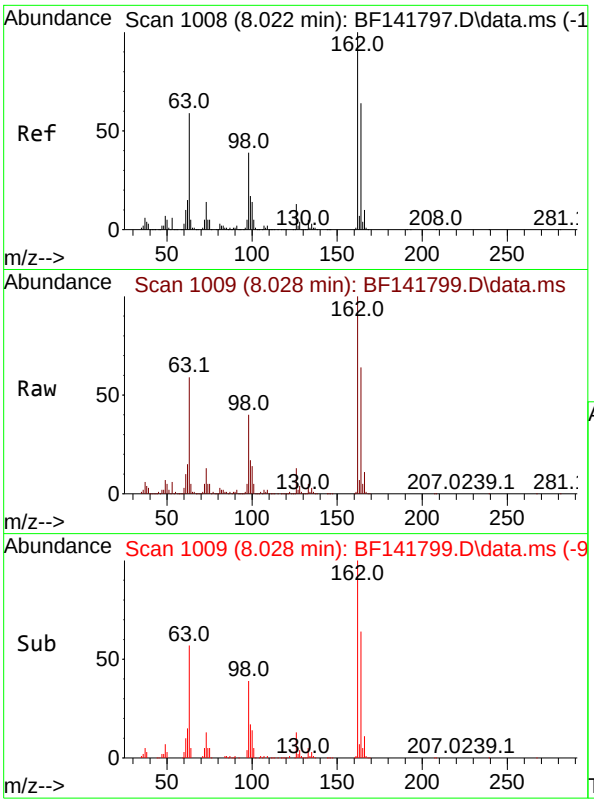


#28
bis(2-Chloroethoxy)methane
Concen: 57.094 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



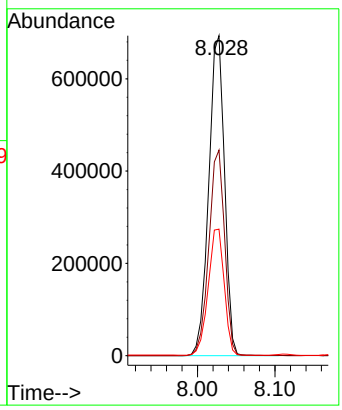


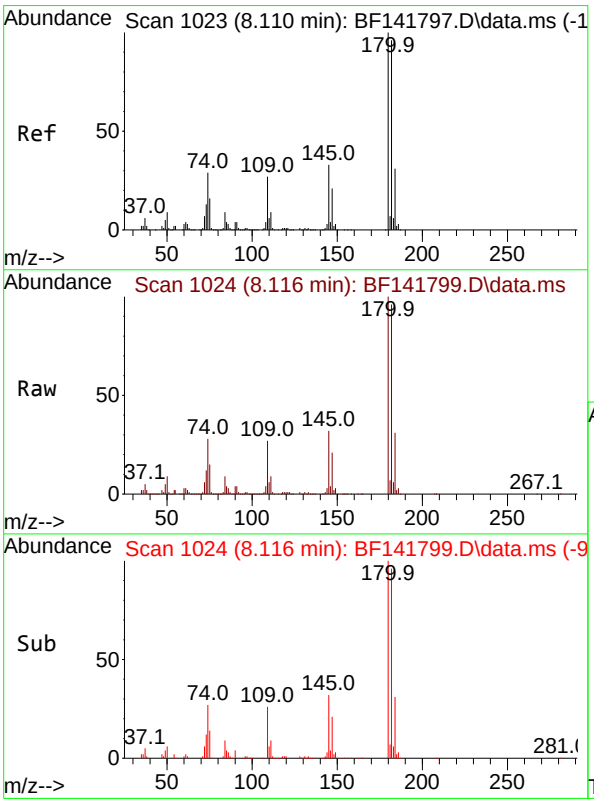
#29
2,4-Dichlorophenol
Concen: 59.211 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

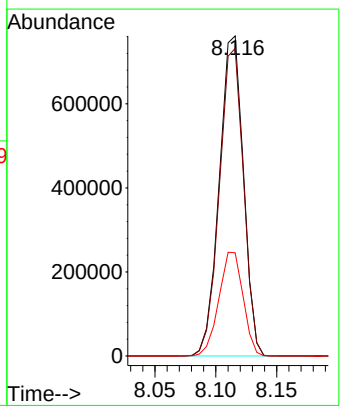


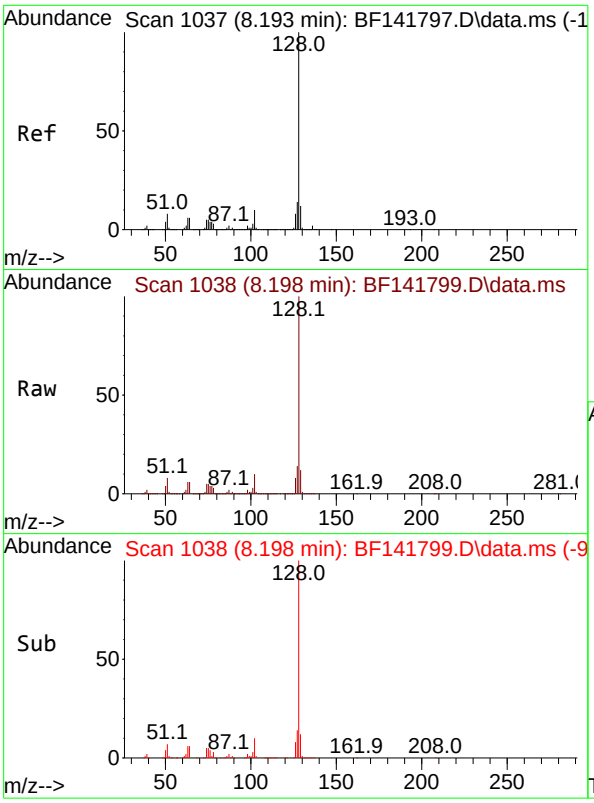


#30
1,2,4-Trichlorobenzene
Concen: 57.885 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



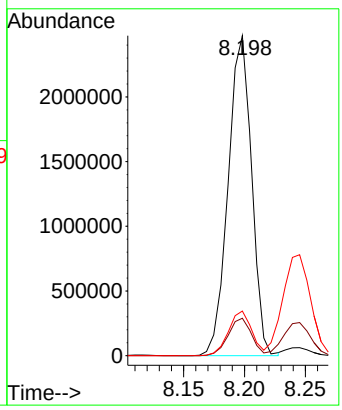


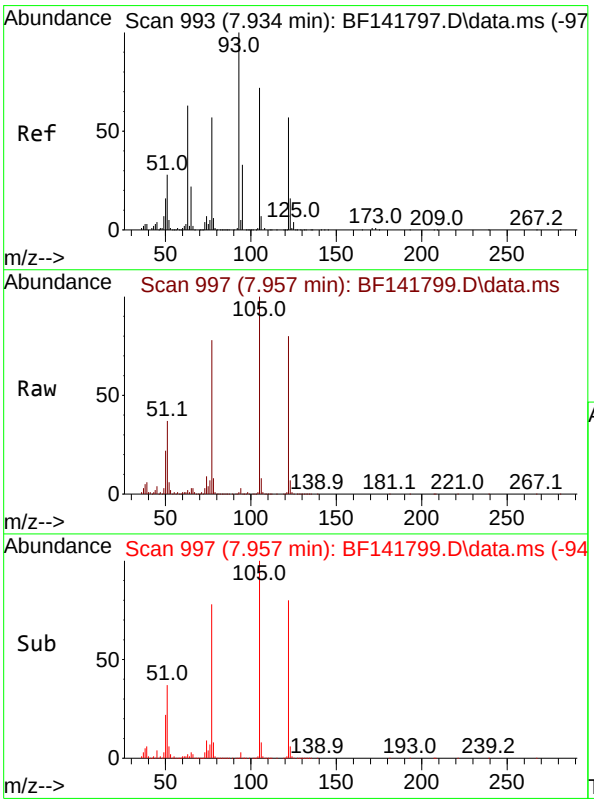
#31
Naphthalene
Concen: 55.427 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

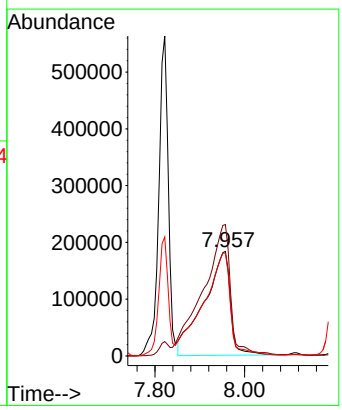


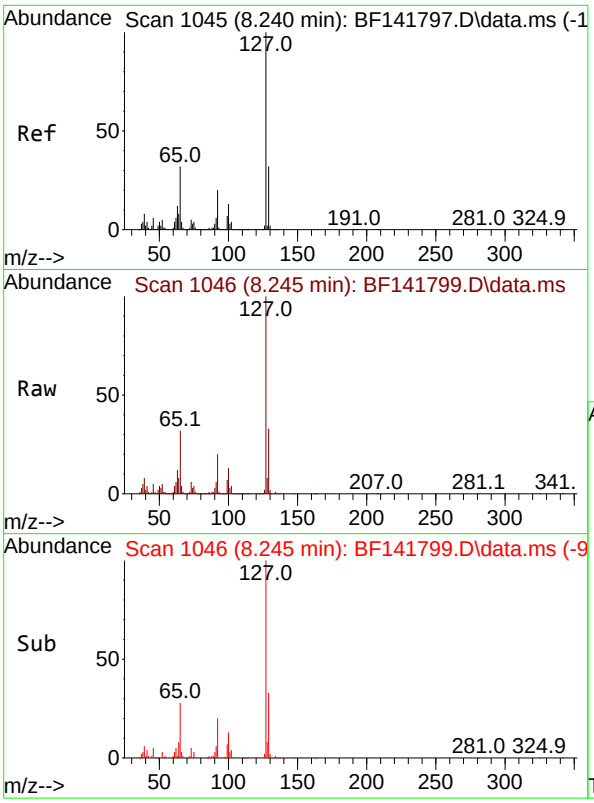


#32
Benzoic acid
Concen: 60.158 ng
RT: 7.957 min Scan# 997
Delta R.T. 0.023 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



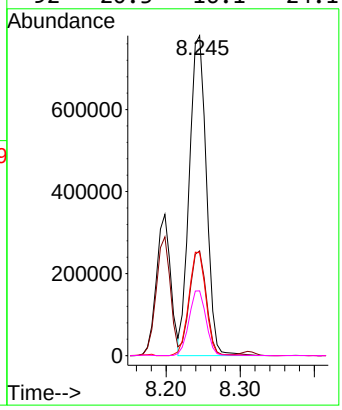


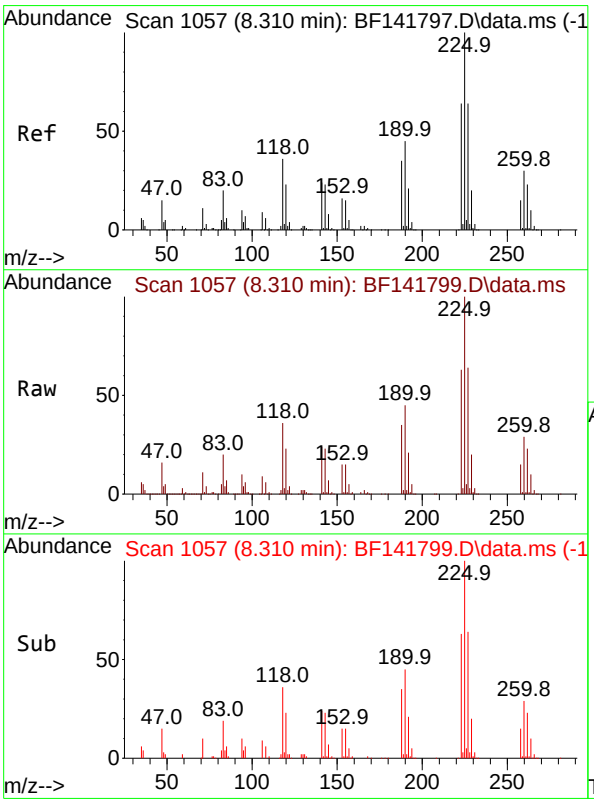
#33
4-Chloroaniline
Concen: 56.723 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

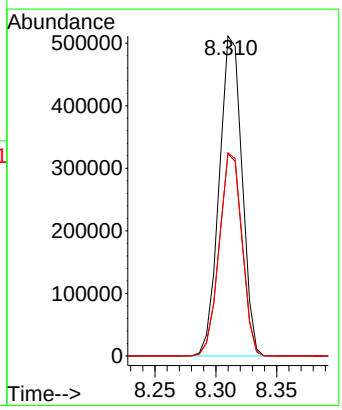


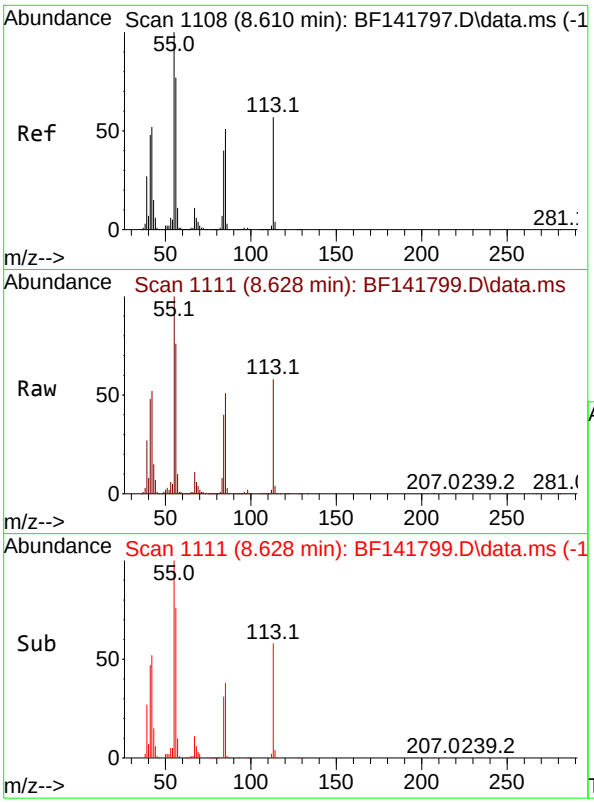


#34
Hexachlorobutadiene
Concen: 59.082 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



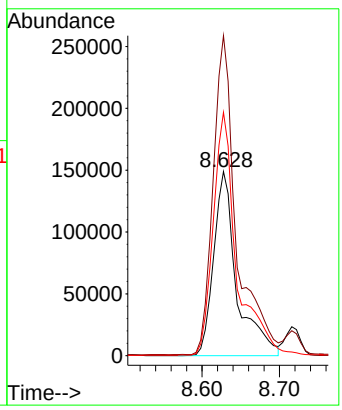


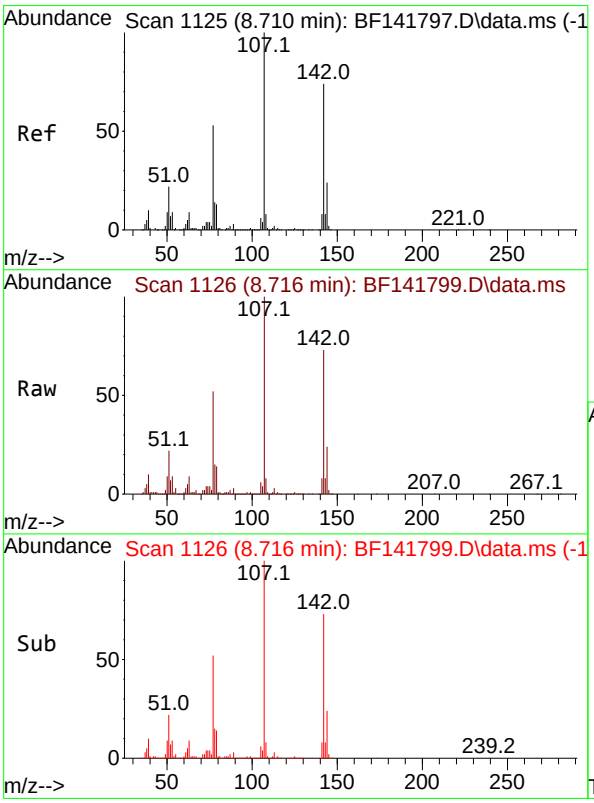
#35
Caprolactam
Concen: 60.671 ng
RT: 8.628 min Scan# 11
Delta R.T. 0.018 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

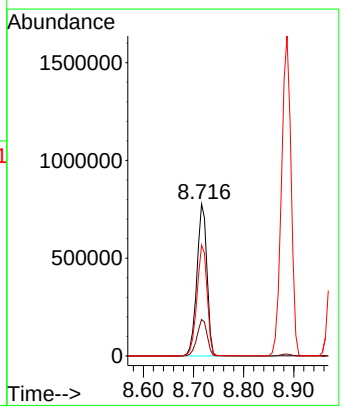


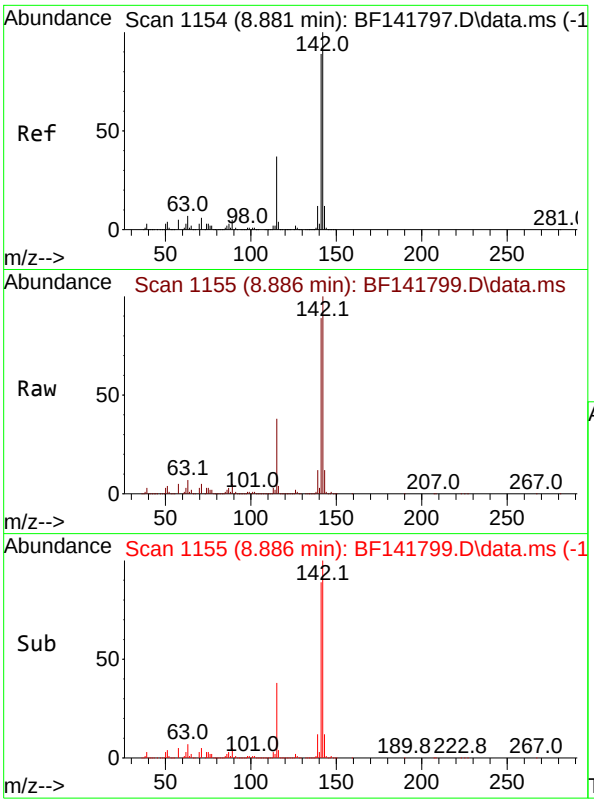


#36
4-Chloro-3-methylphenol
Concen: 58.783 ng
RT: 8.716 min Scan# 1126
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



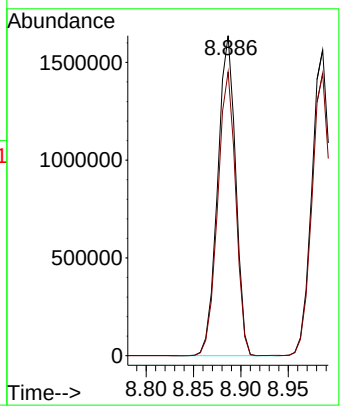


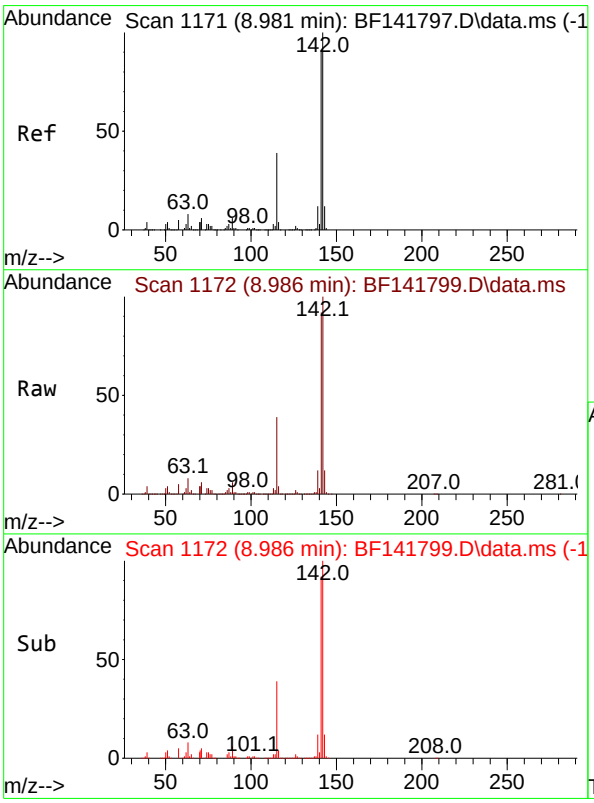
#37
2-Methylnaphthalene
Concen: 55.115 ng
RT: 8.886 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 2160902

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.1	106.7

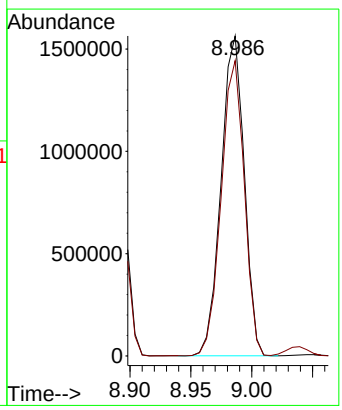


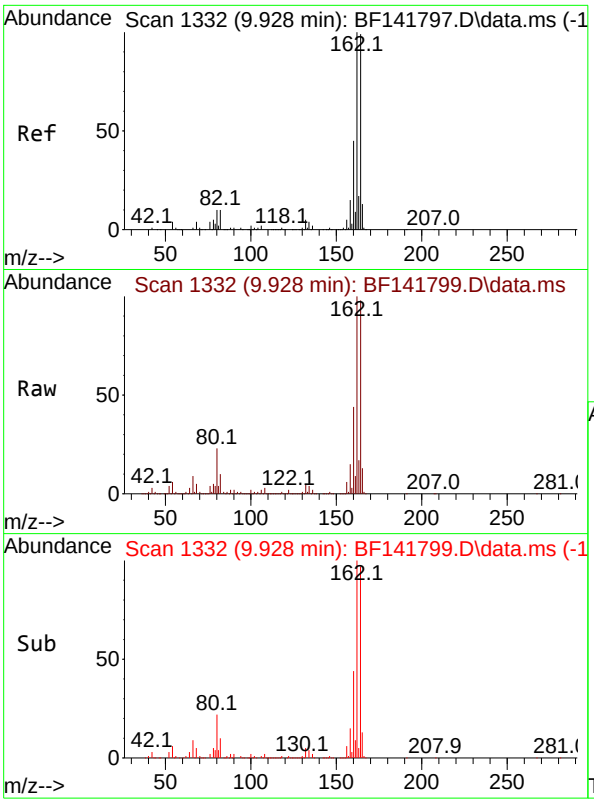


#38
1-Methylnaphthalene
Concen: 55.054 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

Tgt Ion:142 Resp: 2071154

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7



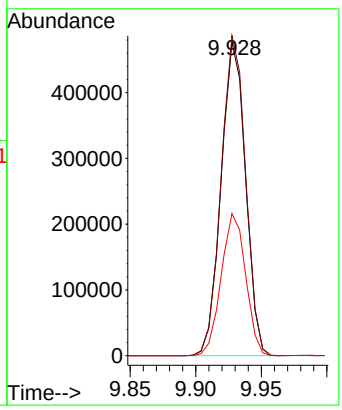


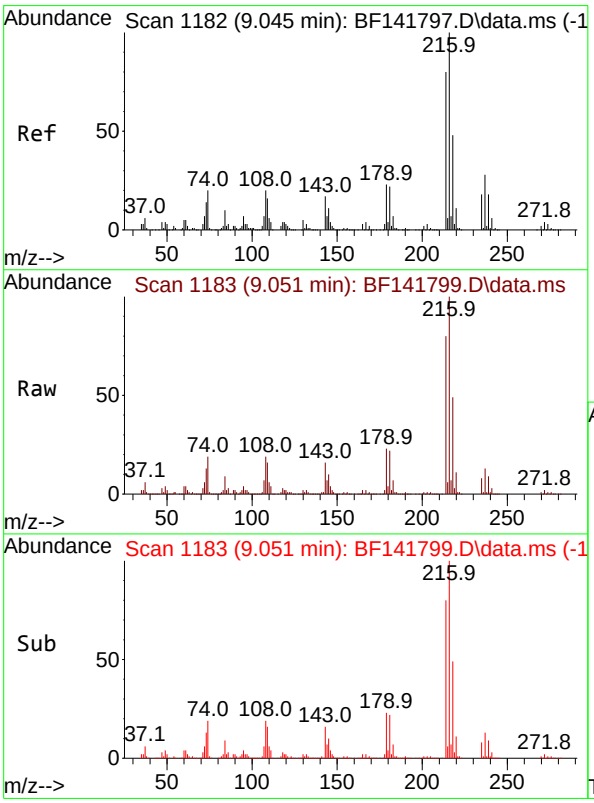
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

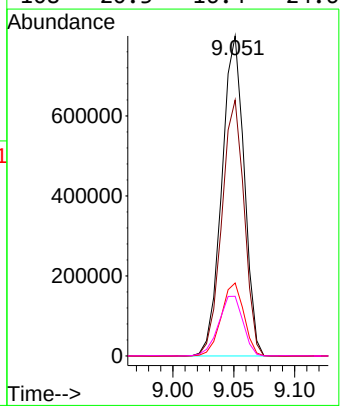


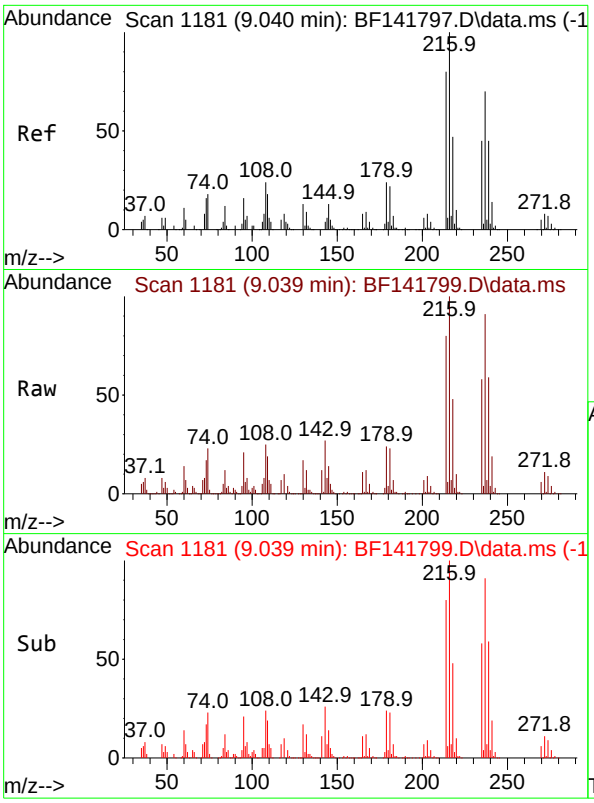


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.477 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



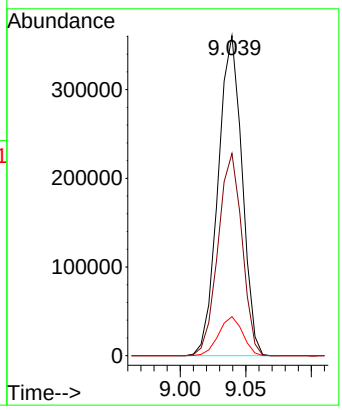


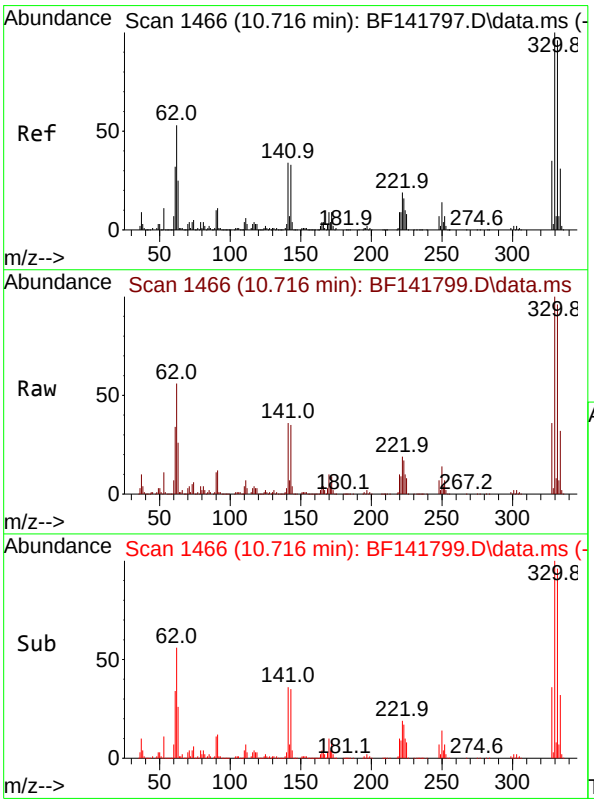
#41
Hexachlorocyclopentadiene
Concen: 61.586 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

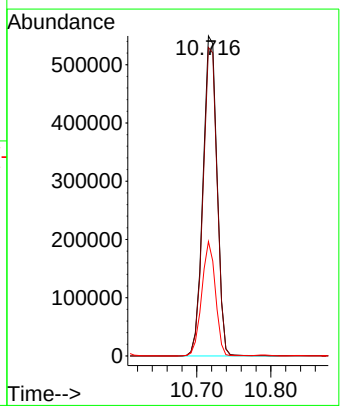


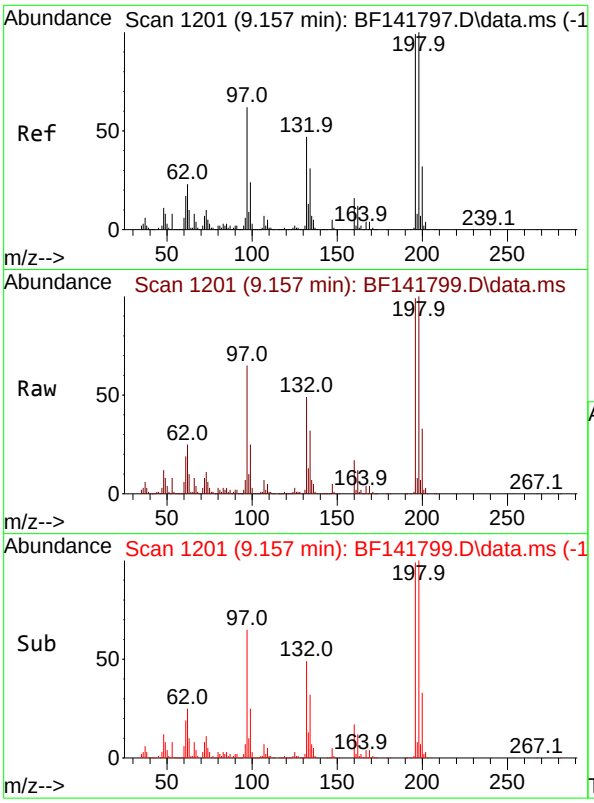


#42
2,4,6-Tribromophenol
Concen: 125.191 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



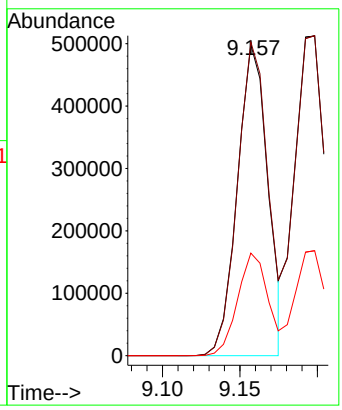


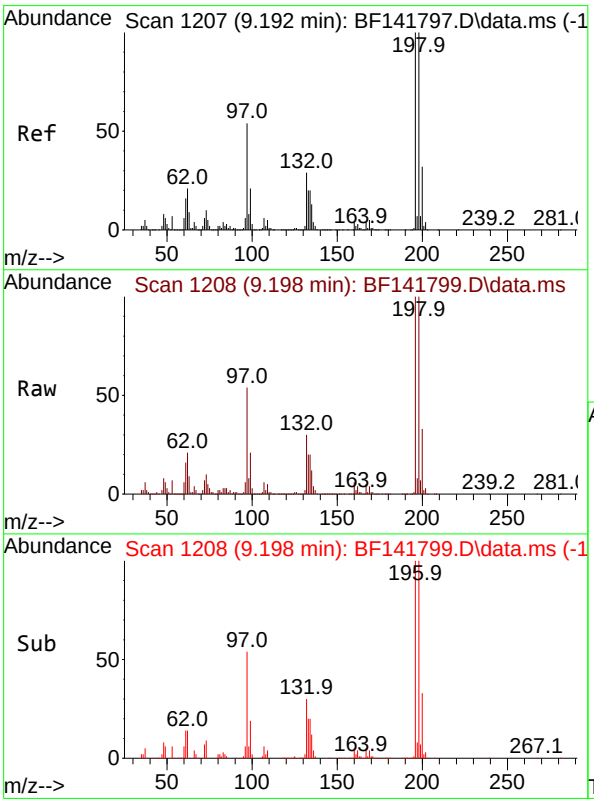
#43
2,4,6-Trichlorophenol
Concen: 59.220 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

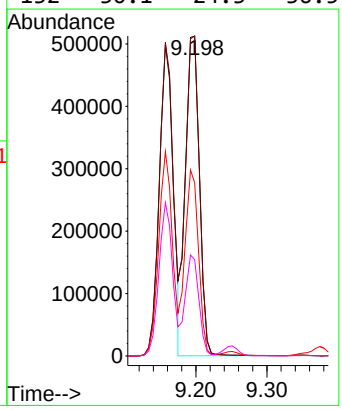


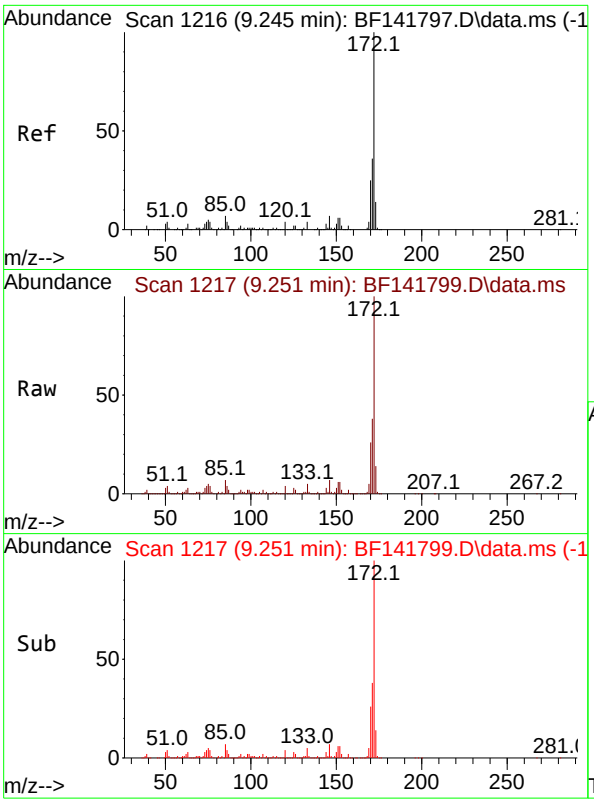


#44
2,4,5-Trichlorophenol
Concen: 61.725 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



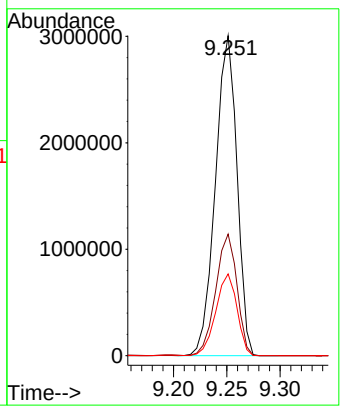


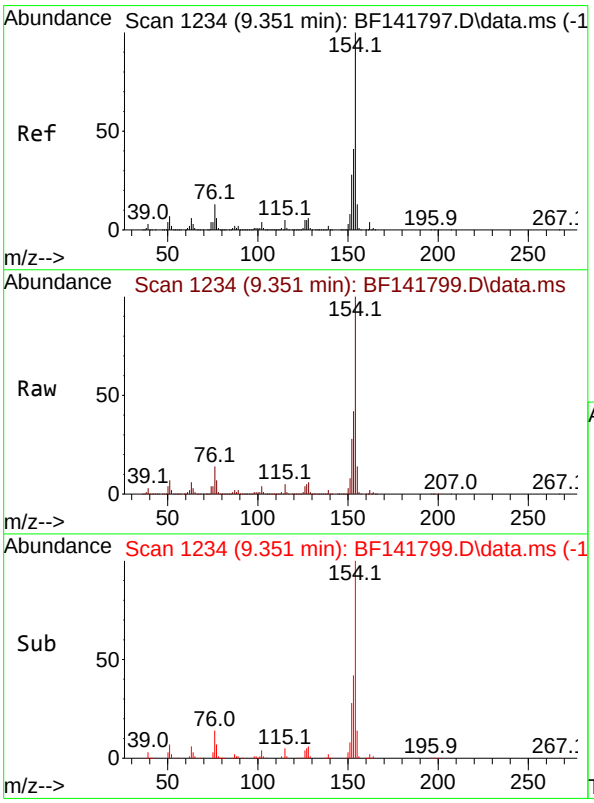
#45
2-Fluorobiphenyl
Concen: 109.742 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

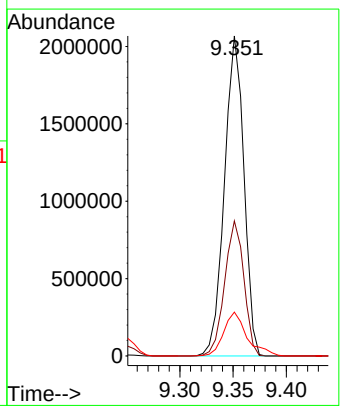


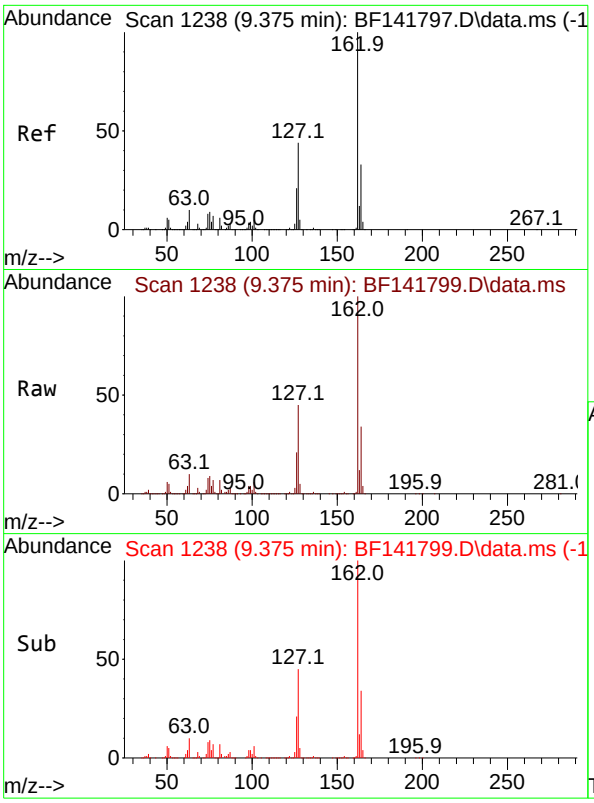


#46
1,1'-Biphenyl
Concen: 55.911 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



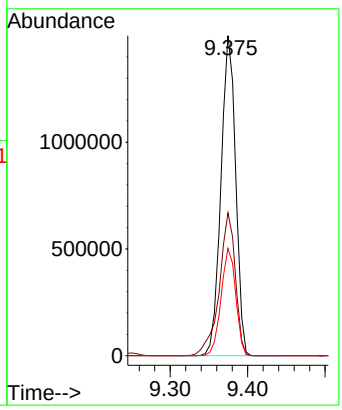


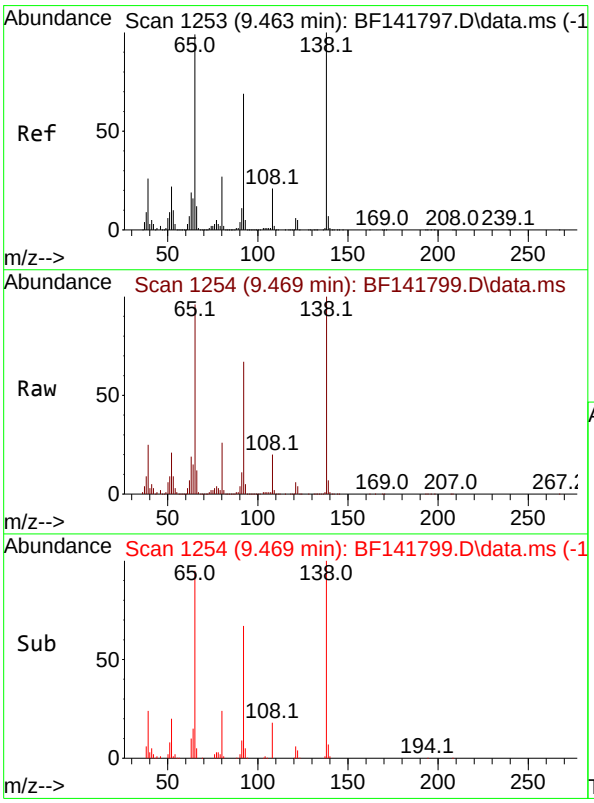
#47
2-Chloronaphthalene
Concen: 57.187 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

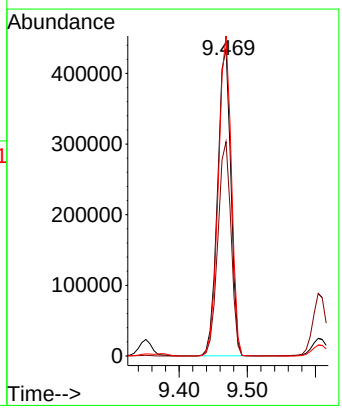


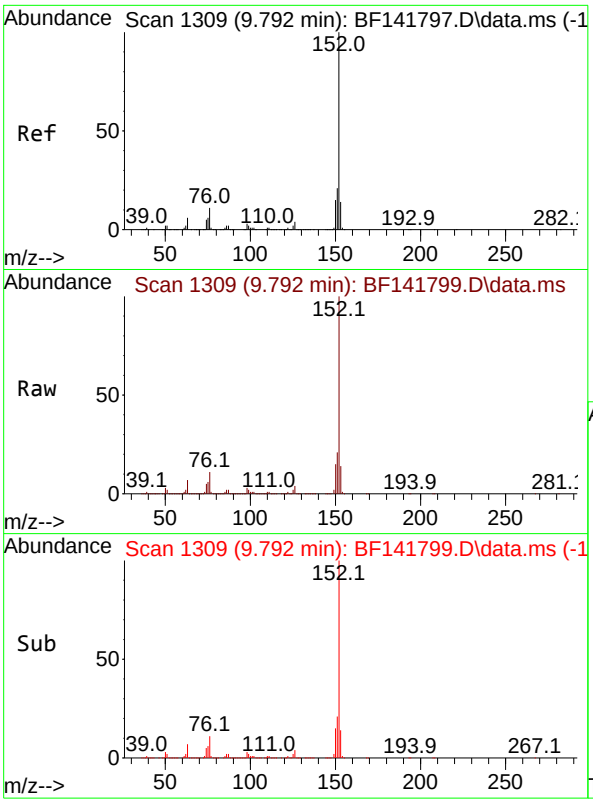


#48
2-Nitroaniline
Concen: 60.902 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



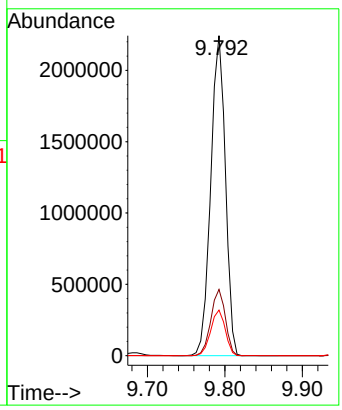


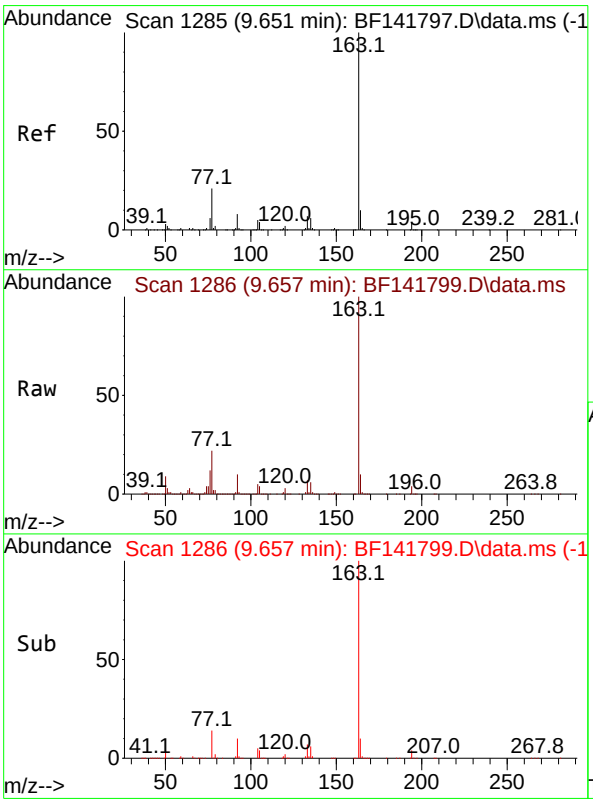
#49
Acenaphthylene
Concen: 56.845 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

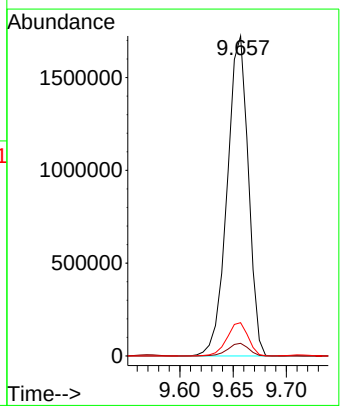


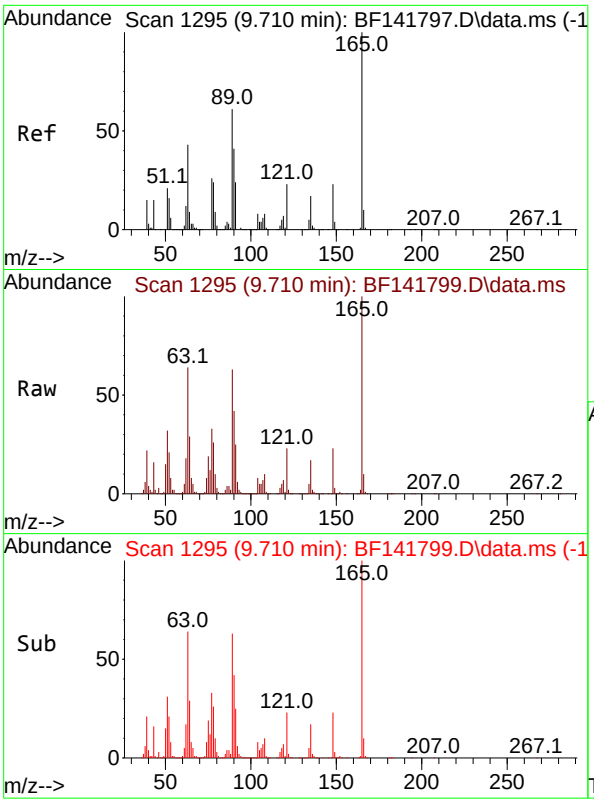


#50
Dimethylphthalate
Concen: 57.581 ng
RT: 9.657 min Scan# 1286
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



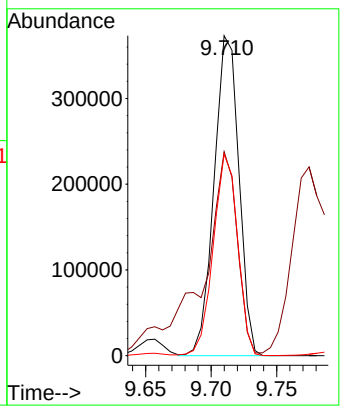


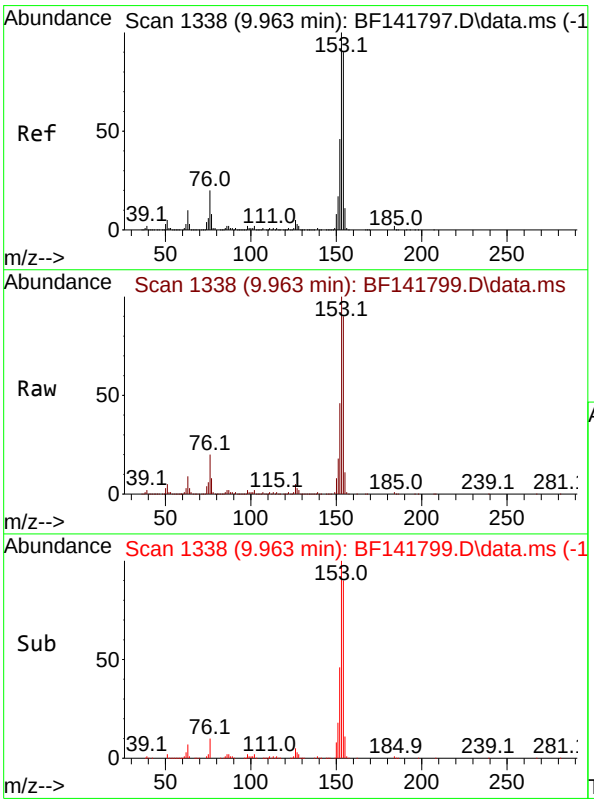
#51
2,6-Dinitrotoluene
Concen: 61.325 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

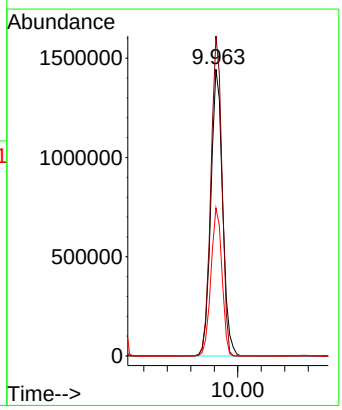


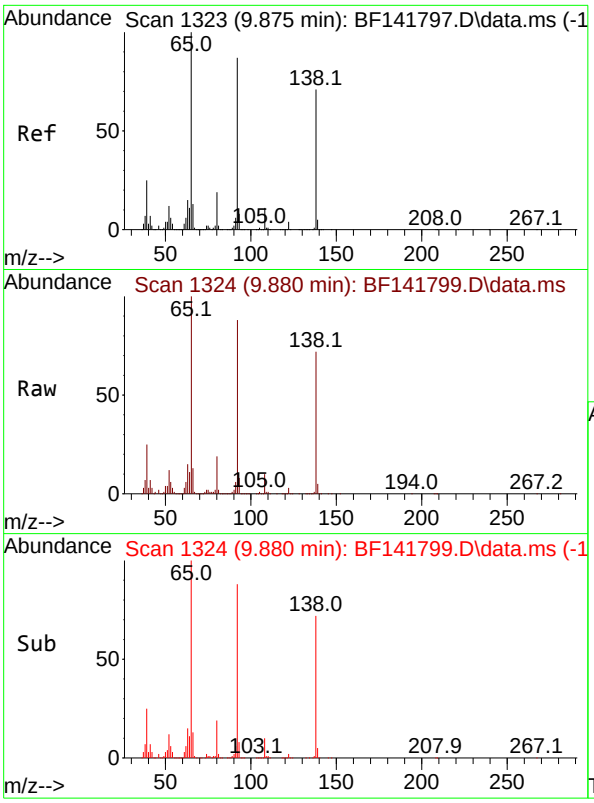


#52
Acenaphthene
Concen: 57.211 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



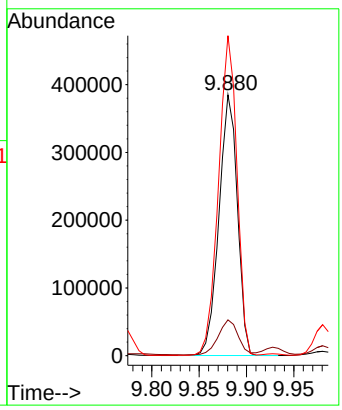


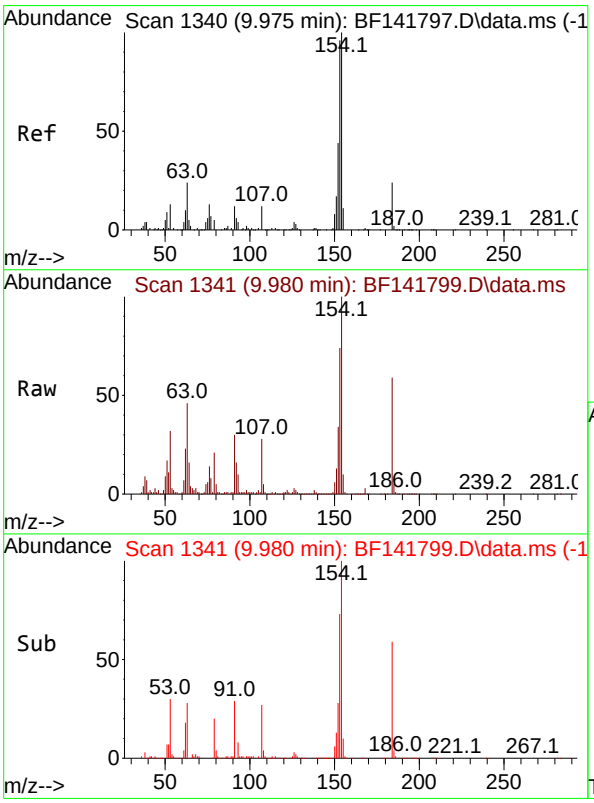
#53
3-Nitroaniline
Concen: 61.078 ng
RT: 9.880 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

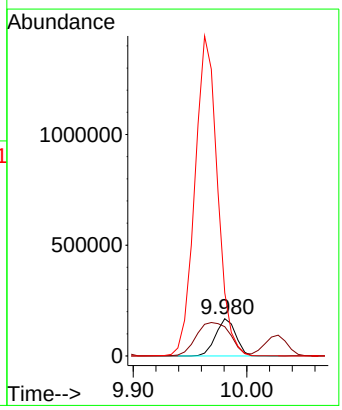


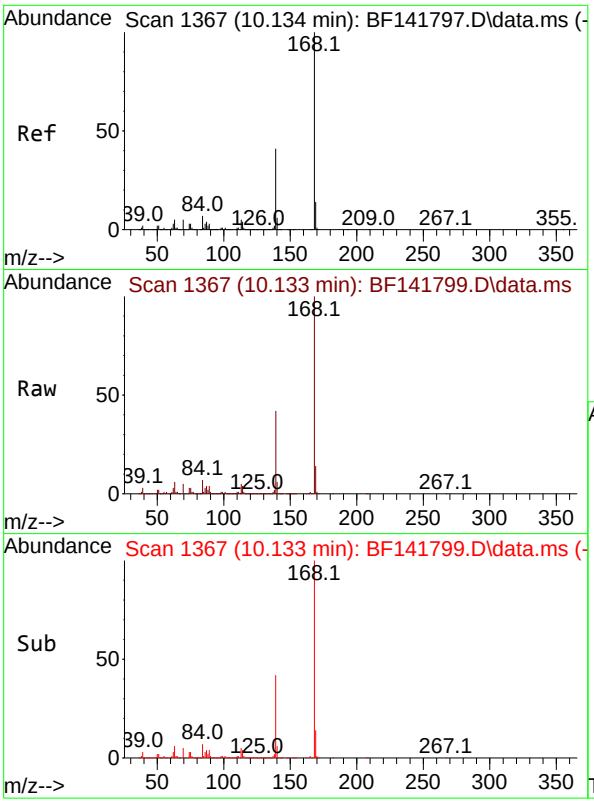


#54
2,4-Dinitrophenol
Concen: 62.312 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.005 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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#



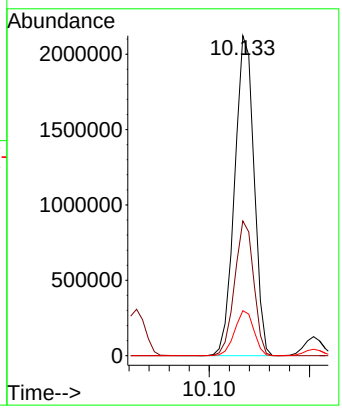


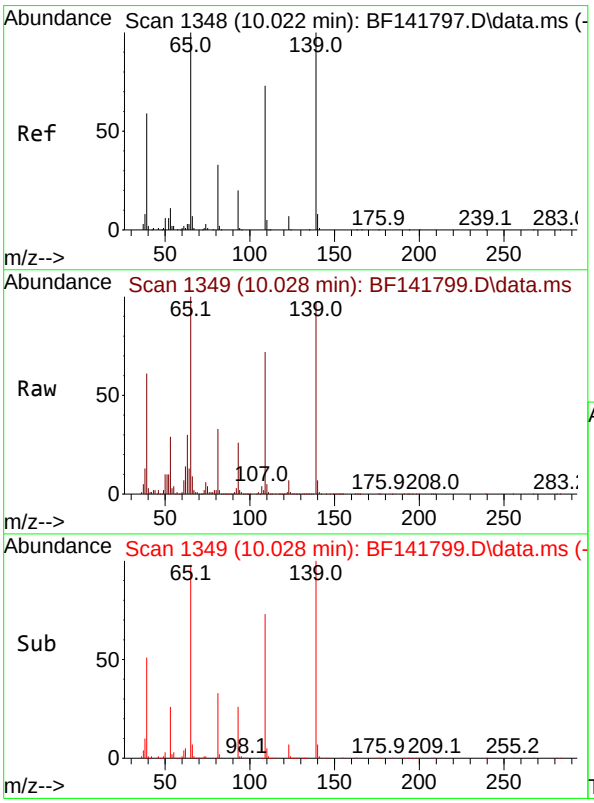
#55
Dibenzofuran
Concen: 55.911 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

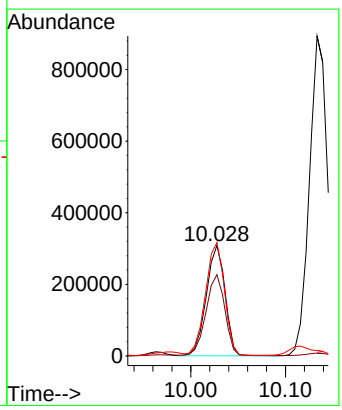


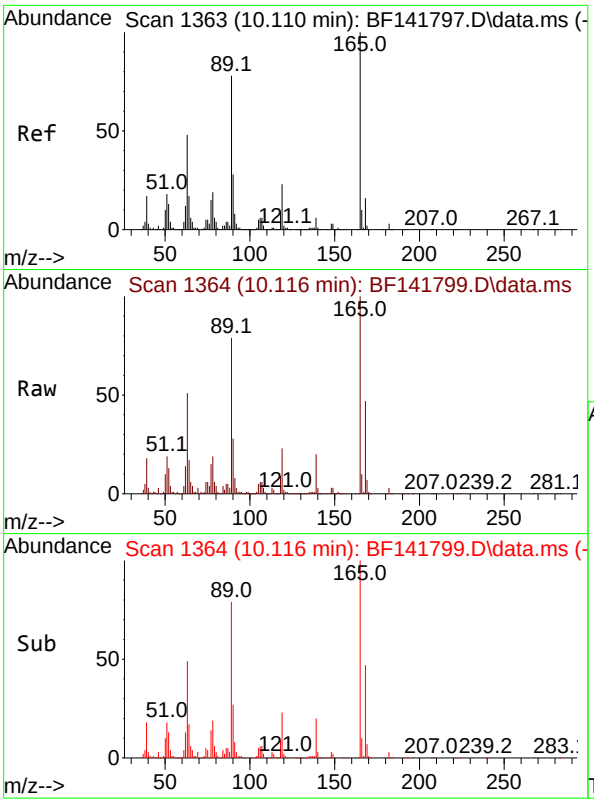


#56
4-Nitrophenol
Concen: 69.564 ng
RT: 10.028 min Scan# 1349
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



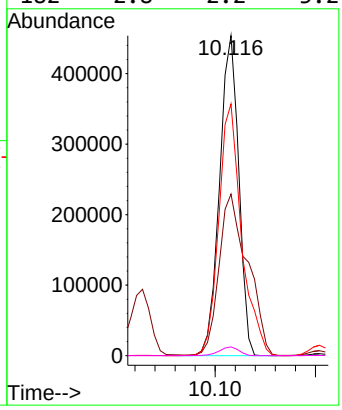


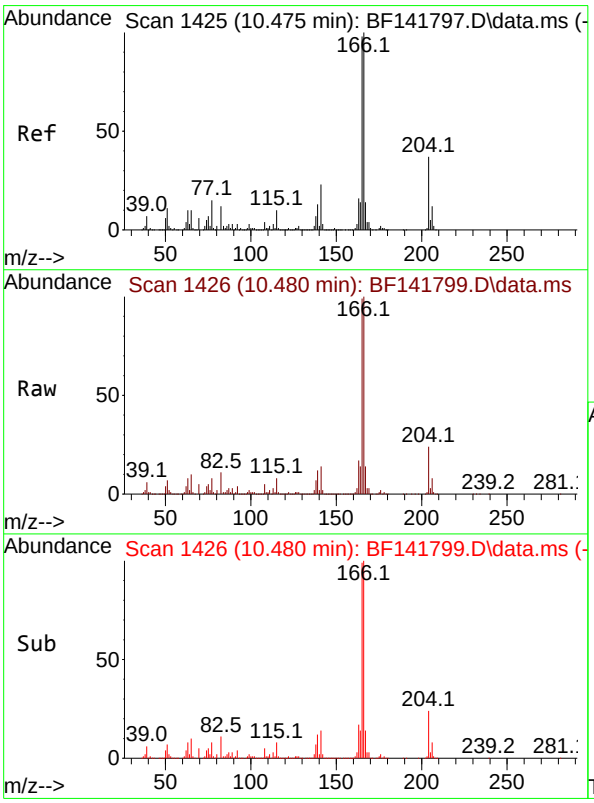
#57
2,4-Dinitrotoluene
Concen: 61.246 ng
RT: 10.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

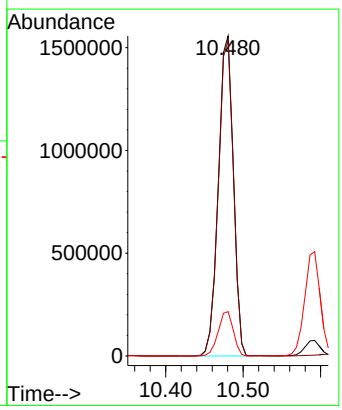


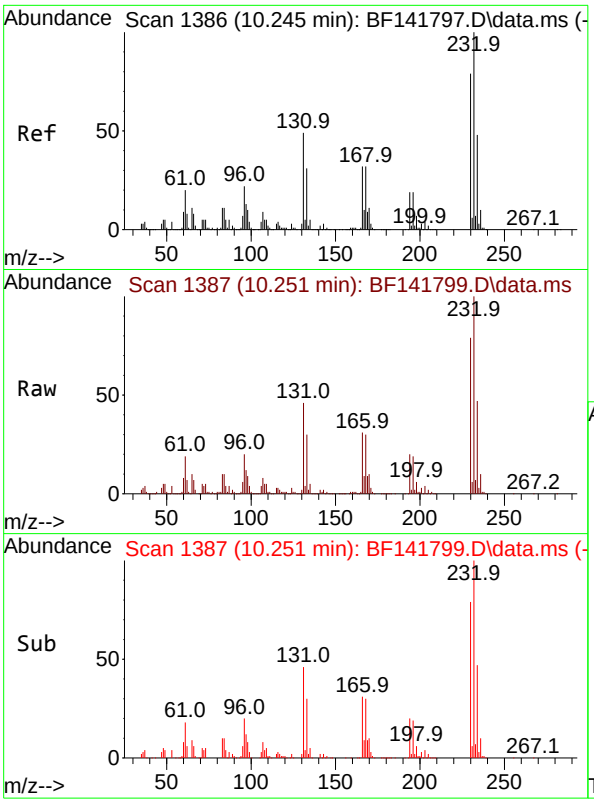


#58
Fluorene
Concen: 54.917 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



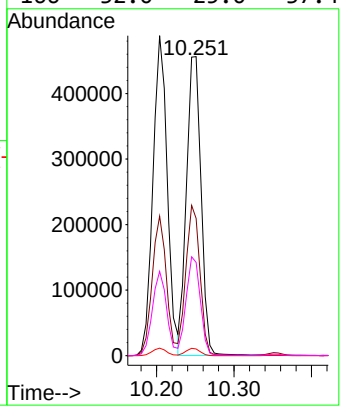


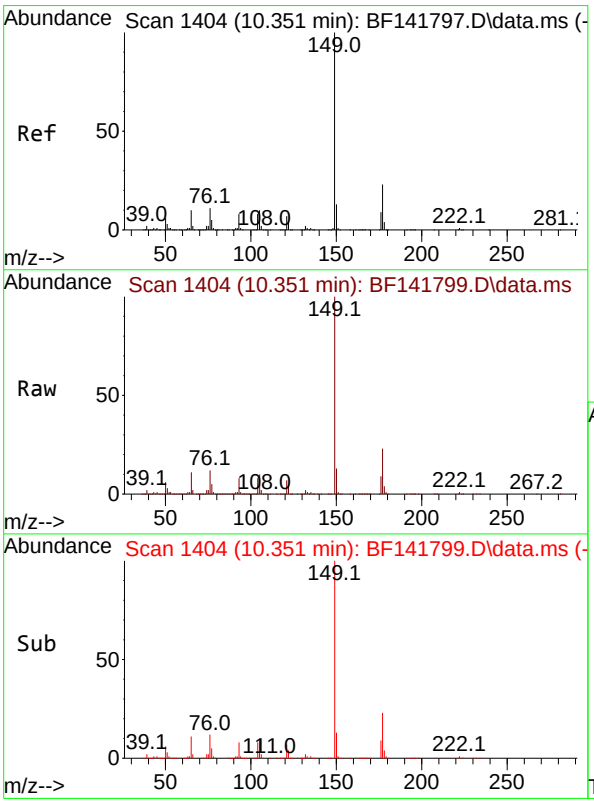
#59
2,3,4,6-Tetrachlorophenol
Concen: 60.159 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

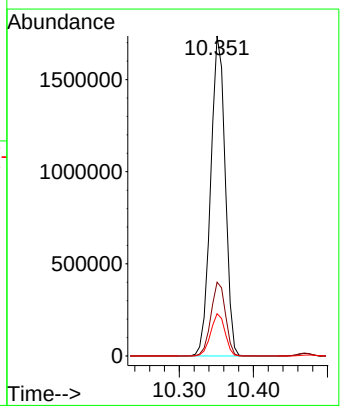


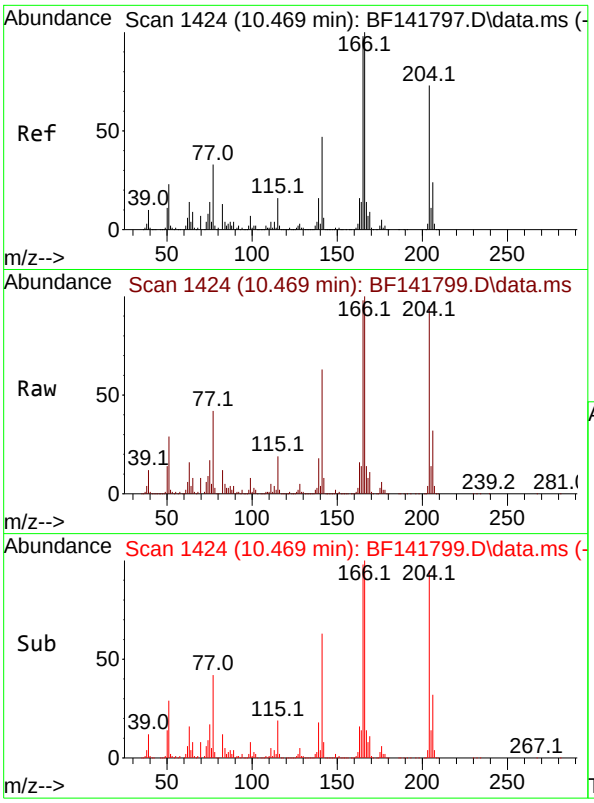


#60
Diethylphthalate
Concen: 56.972 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



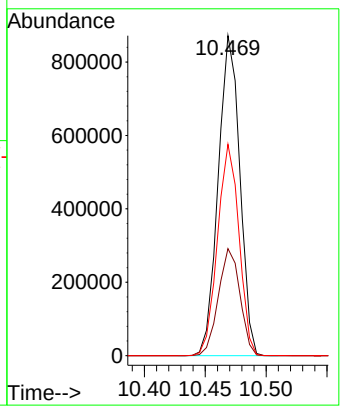


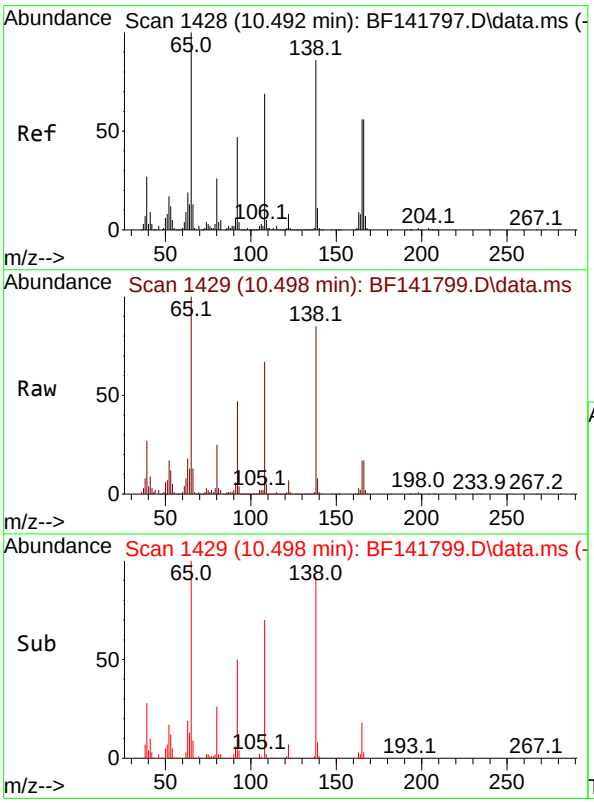
#61
4-Chlorophenyl-phenylether
Concen: 56.324 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

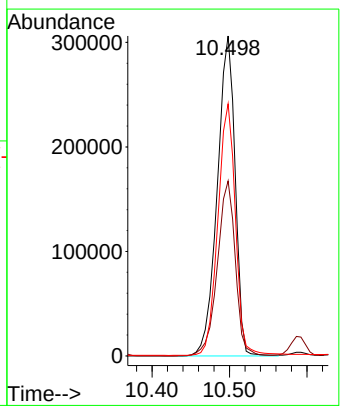


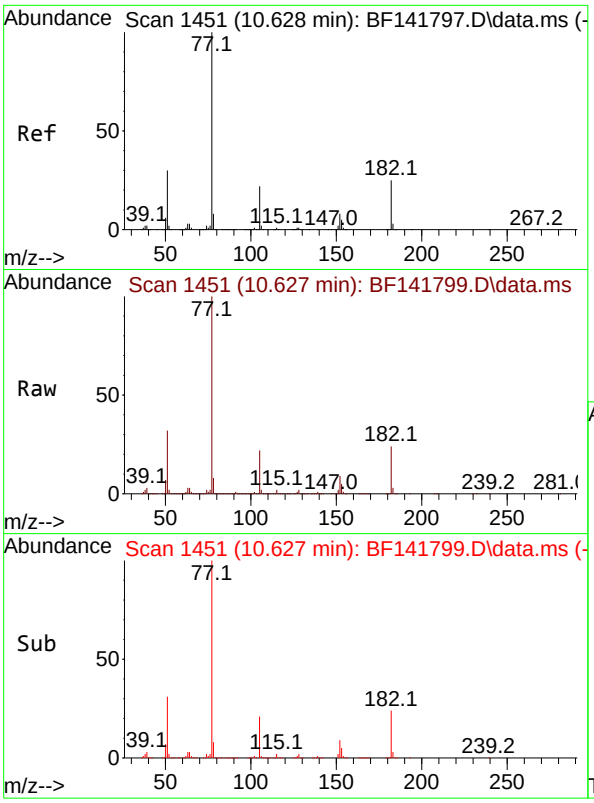


#62
4-Nitroaniline
Concen: 69.546 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



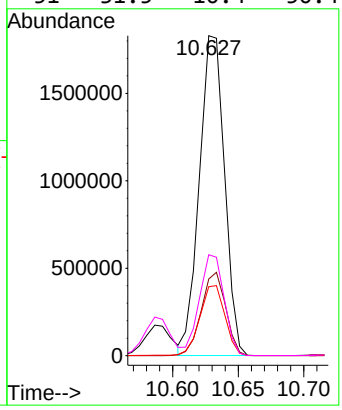


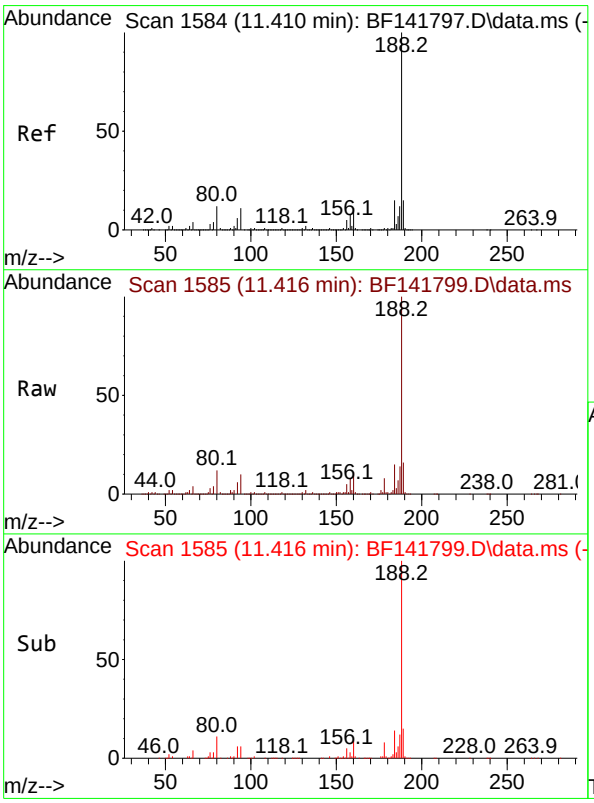
#63
Azobenzene
Concen: 56.242 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

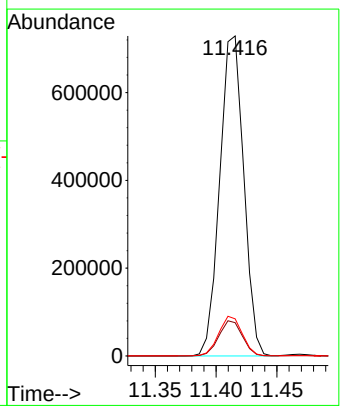


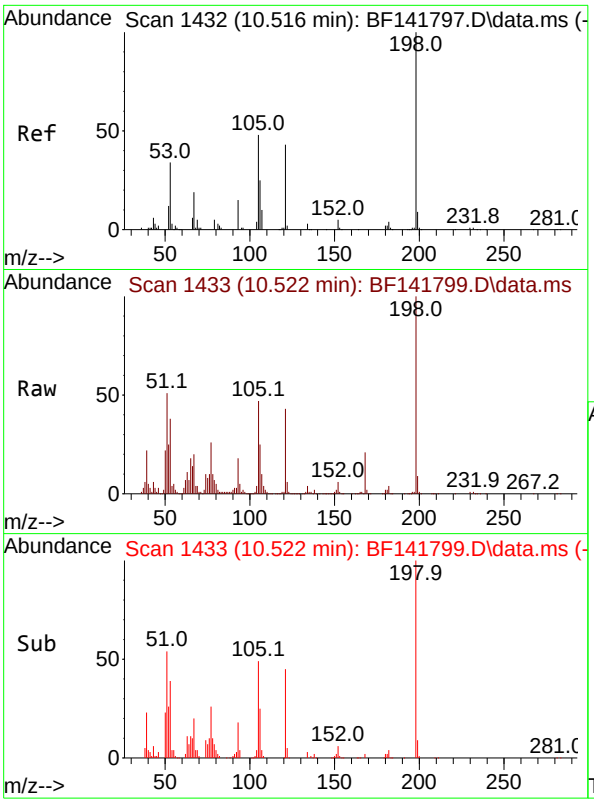


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



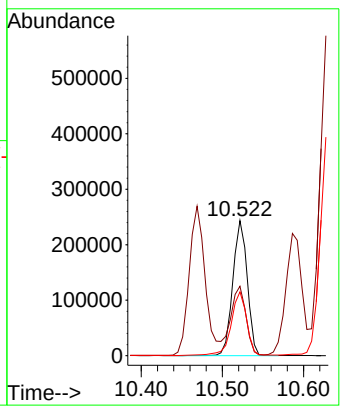


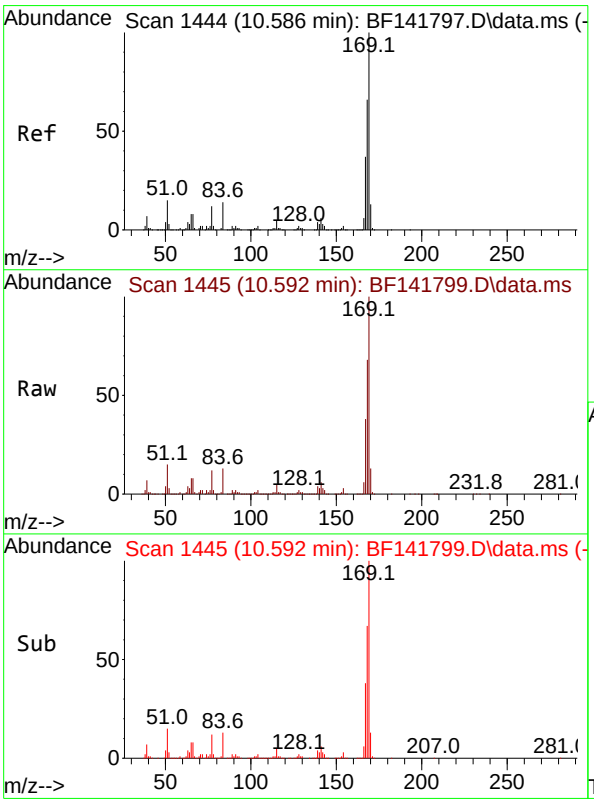
#65
4,6-Dinitro-2-methylphenol
Concen: 61.255 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

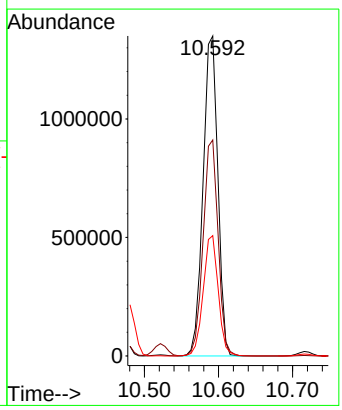


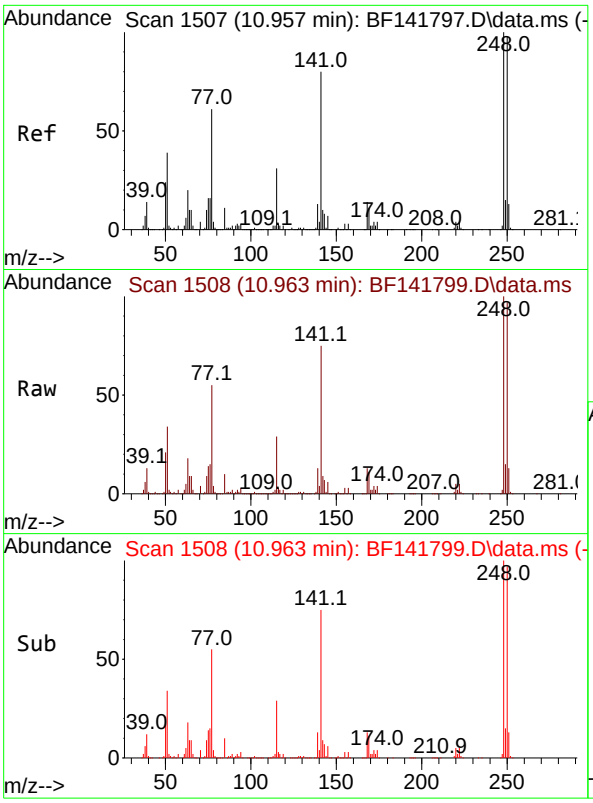


#66
n-Nitrosodiphenylamine
Concen: 56.913 ng
RT: 10.592 min Scan# 1445
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



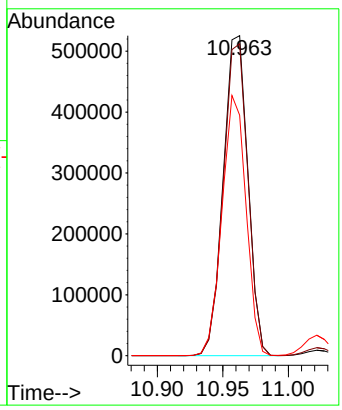


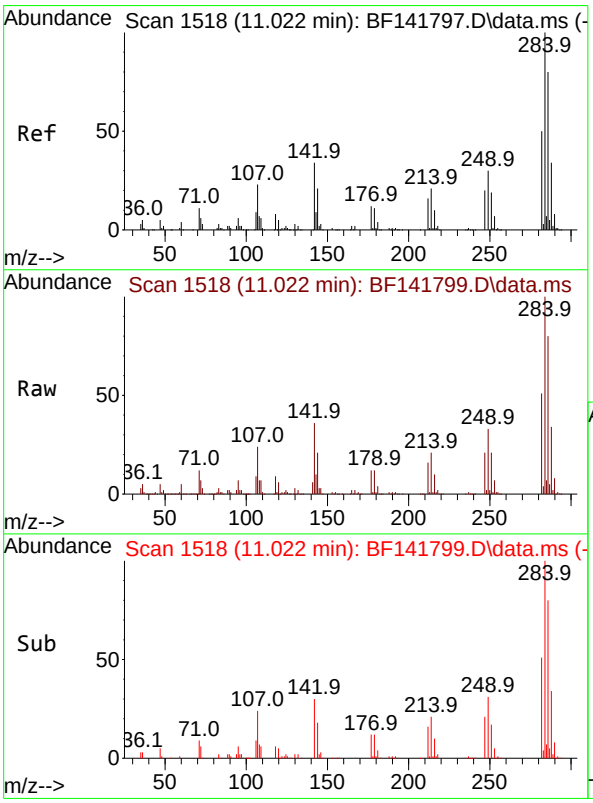
#67
4-Bromophenyl-phenylether
Concen: 59.012 ng
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

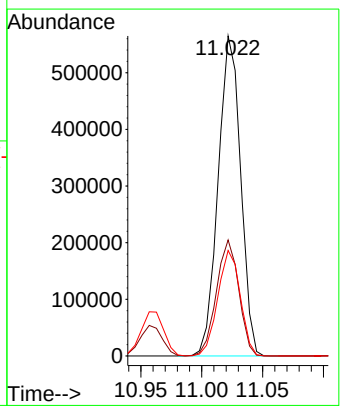


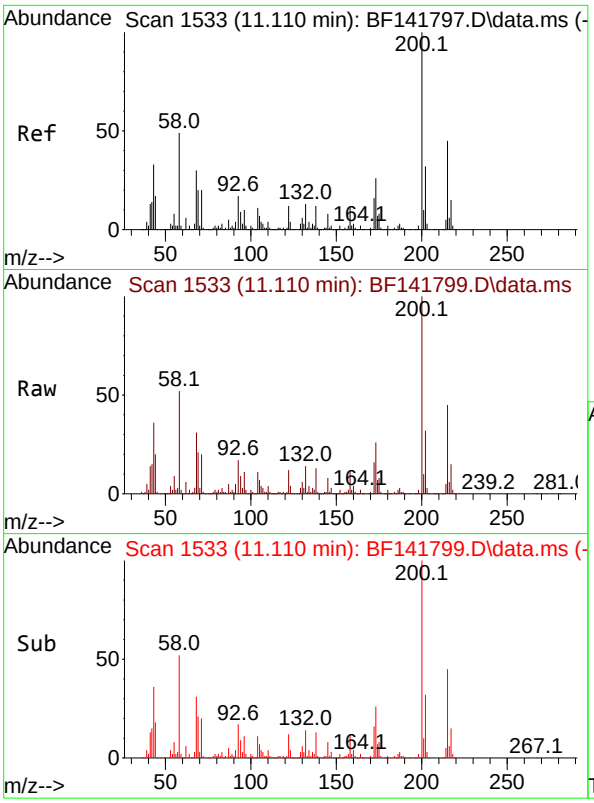


#68
Hexachlorobenzene
Concen: 58.945 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



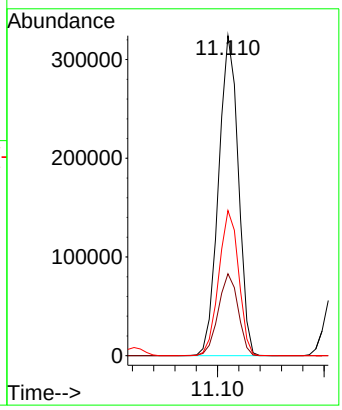


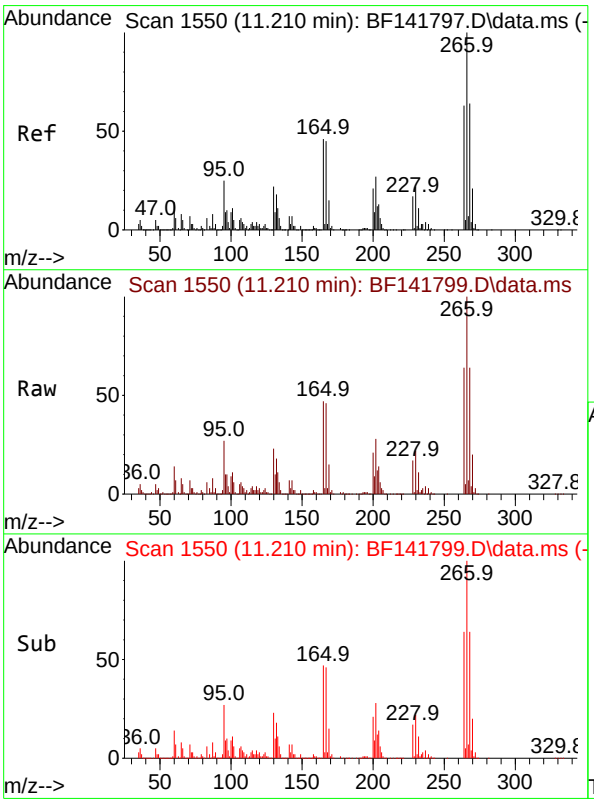
#69
Atrazine
Concen: 46.200 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

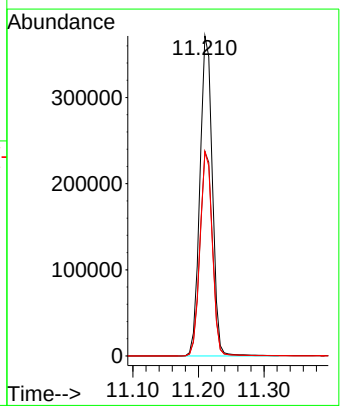


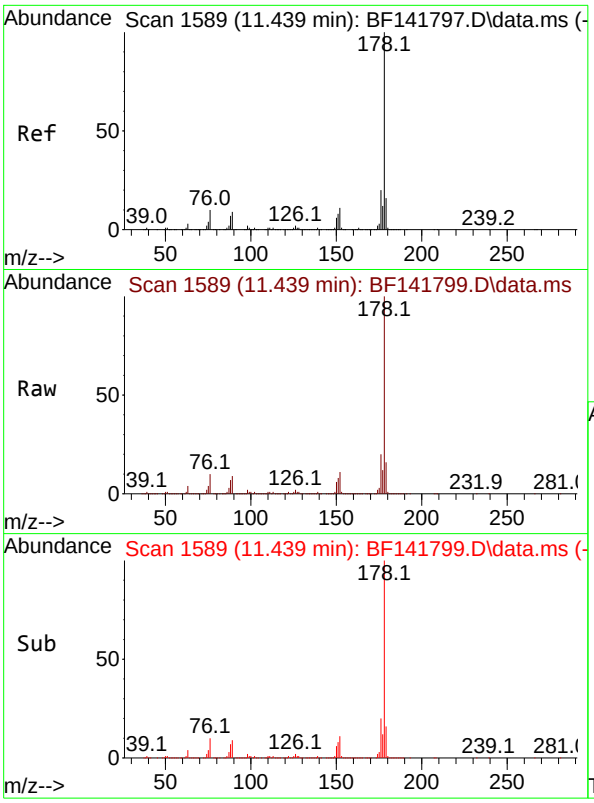


#70
Pentachlorophenol
Concen: 62.968 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



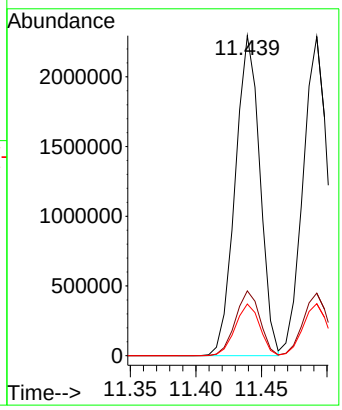


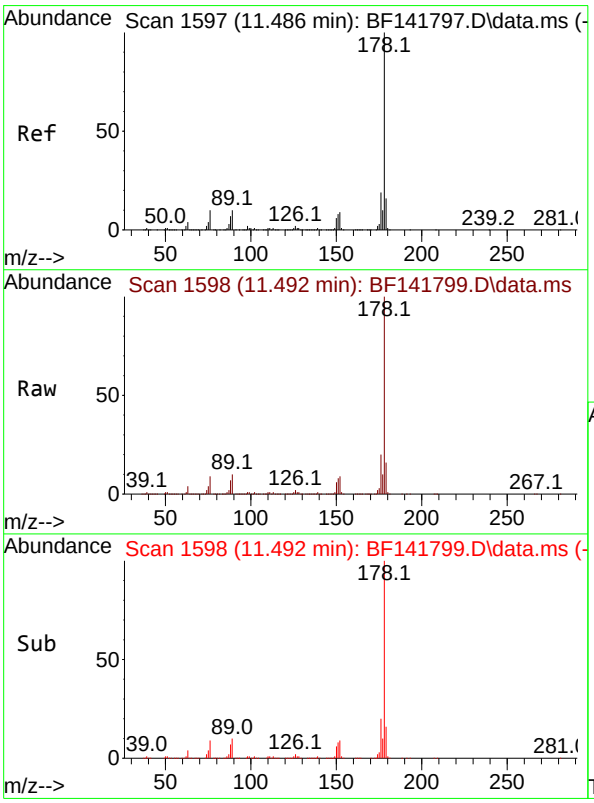
#71
Phenanthrene
Concen: 56.165 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

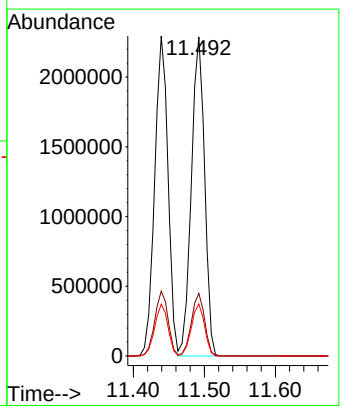


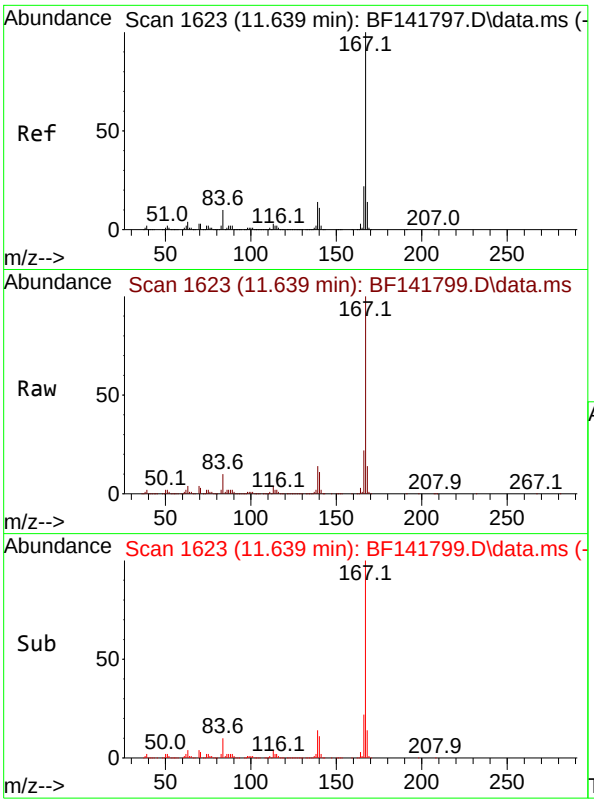


#72
Anthracene
Concen: 55.373 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



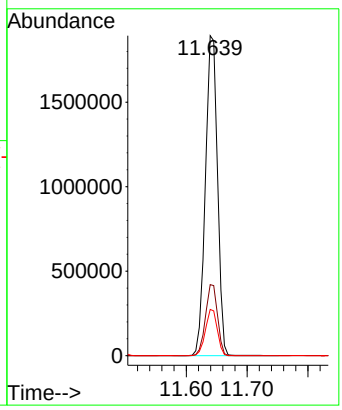


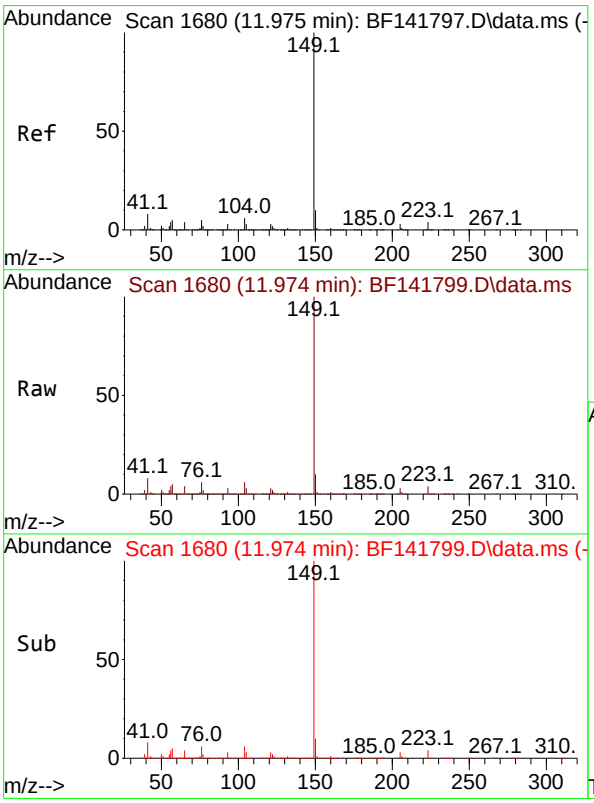
#73
Carbazole
Concen: 55.217 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

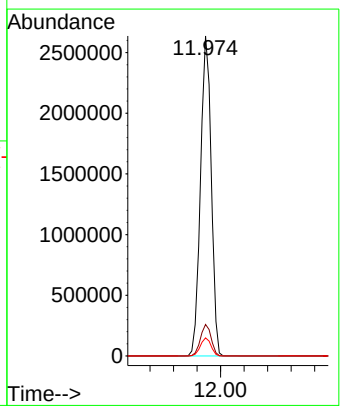


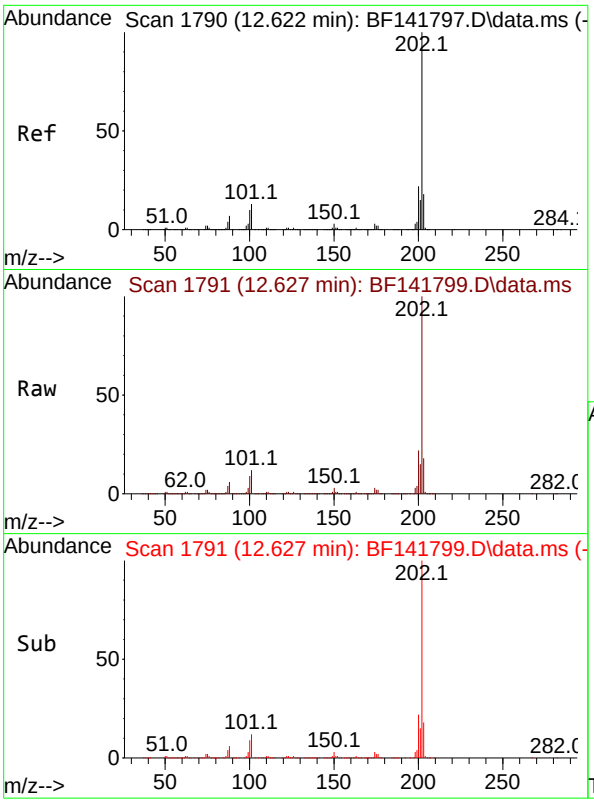


#74
Di-n-butylphthalate
Concen: 55.675 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



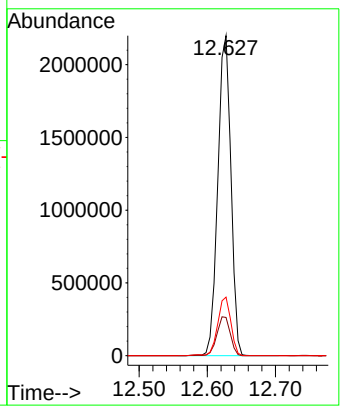


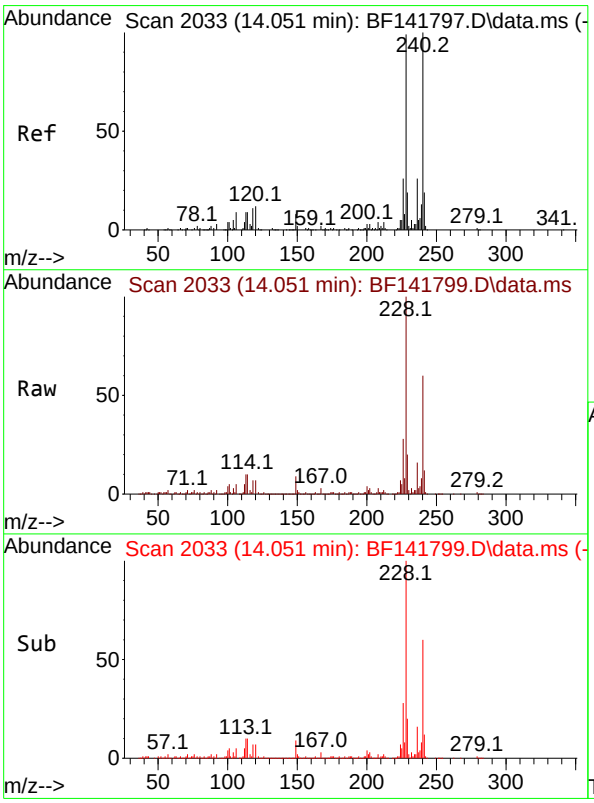
#75
Fluoranthene
Concen: 53.680 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

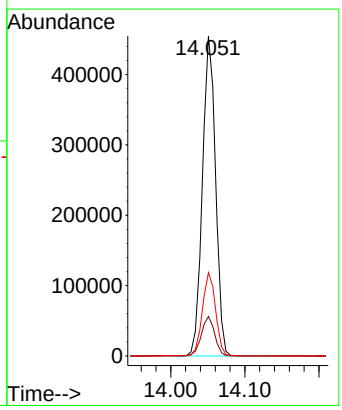


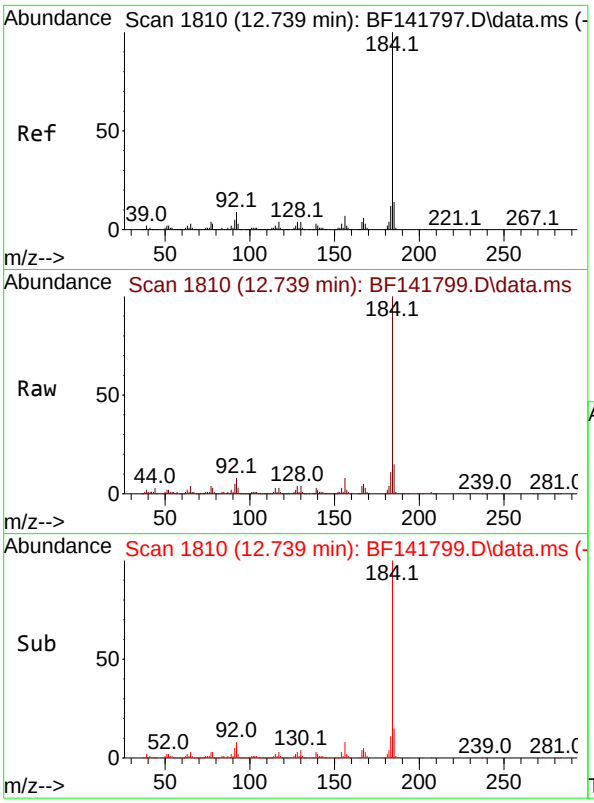


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



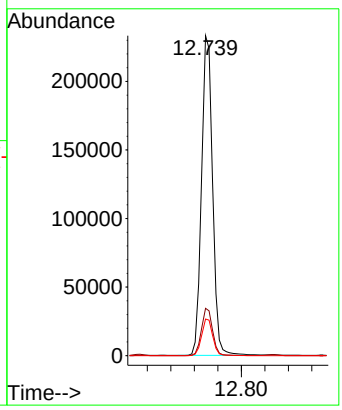


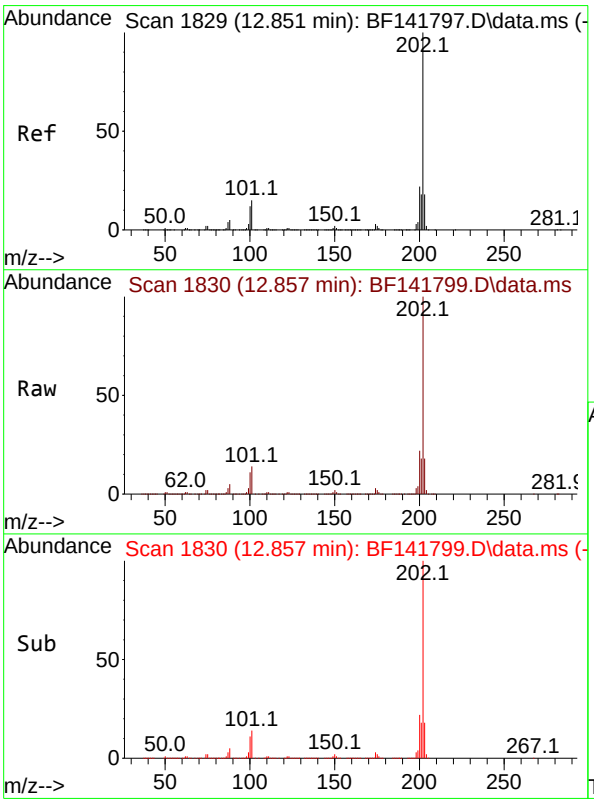
#77
Benzidine
Concen: 43.207 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

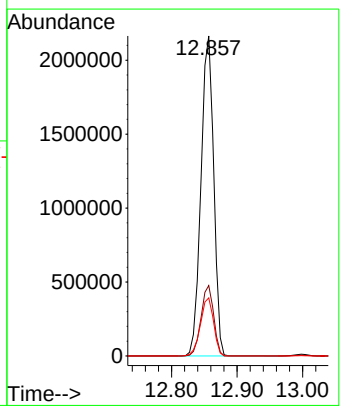


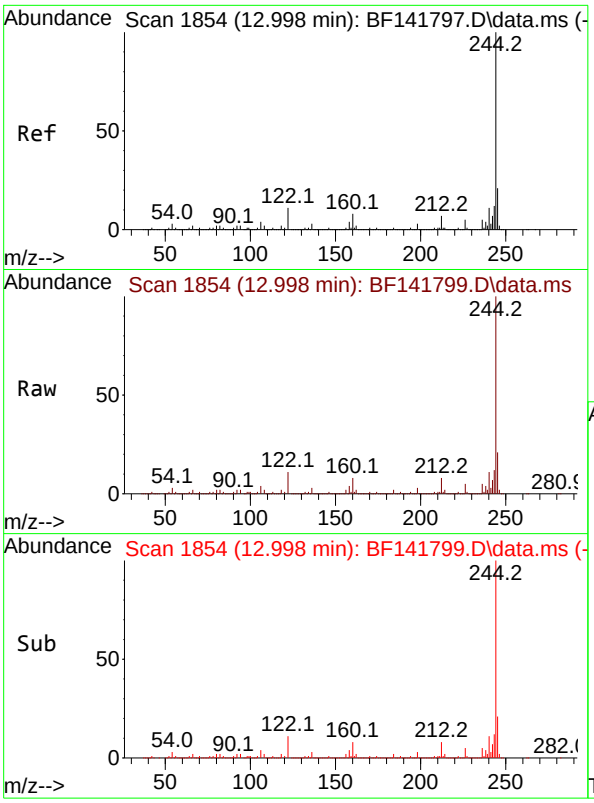


#78
Pyrene
Concen: 60.064 ng
RT: 12.857 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



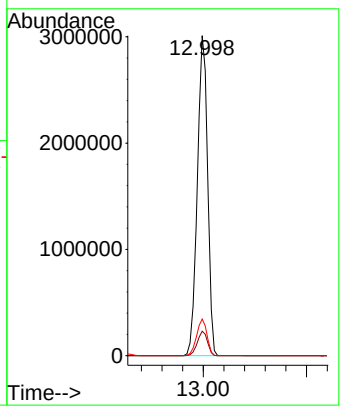


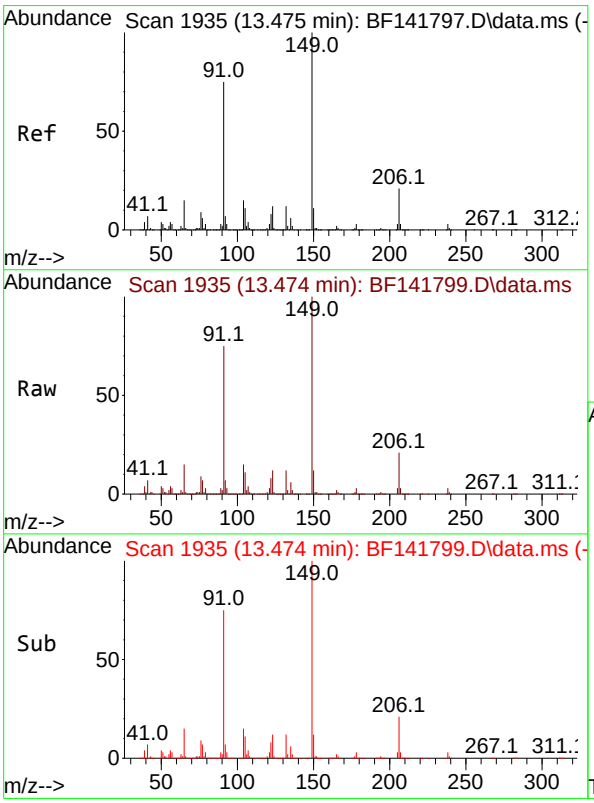
#79
Terphenyl-d14
Concen: 119.098 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

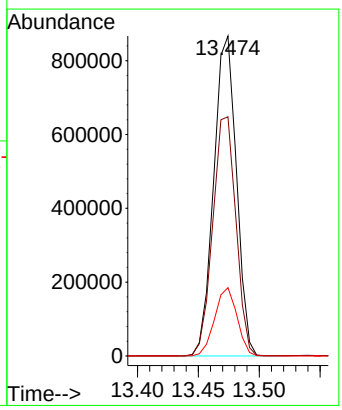


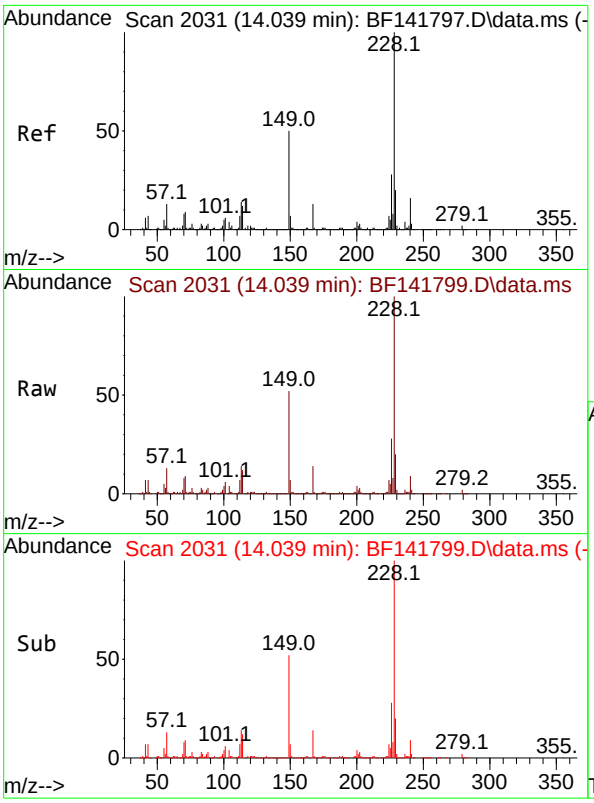


#80
Butylbenzylphthalate
Concen: 63.605 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



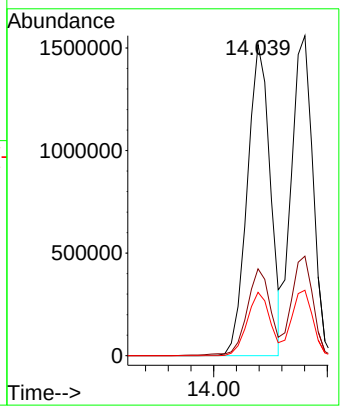


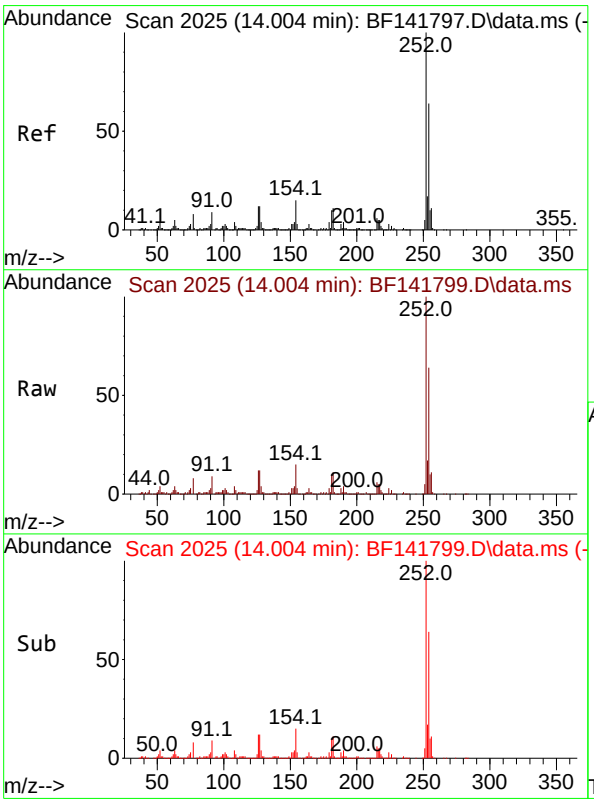
#81
Benzo(a)anthracene
Concen: 57.309 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

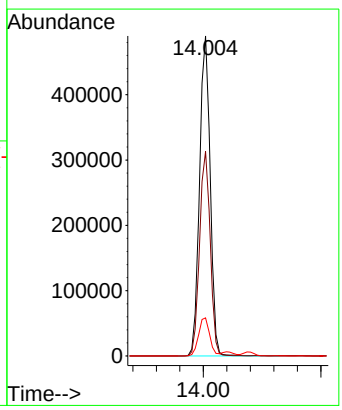


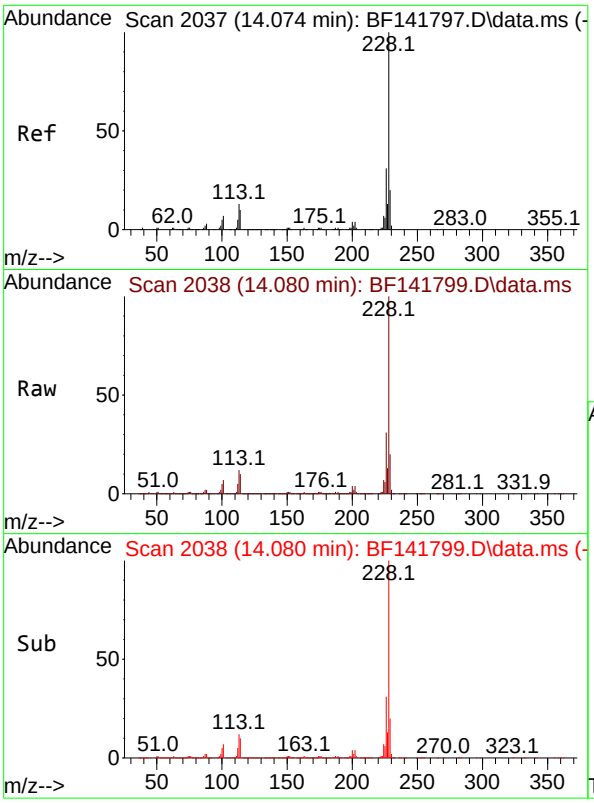


#82
3,3'-Dichlorobenzidine
Concen: 57.639 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



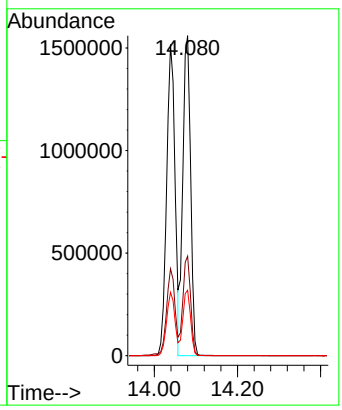


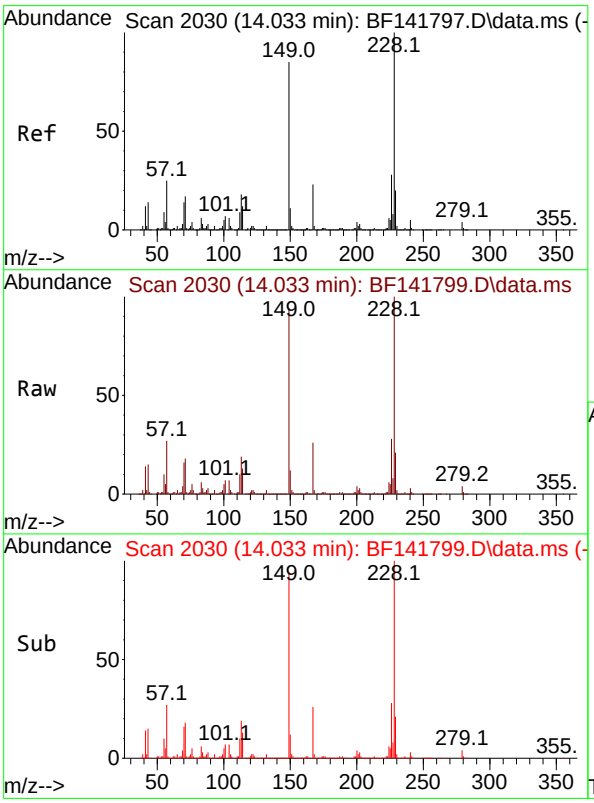
#83
Chrysene
Concen: 59.545 ng
RT: 14.080 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

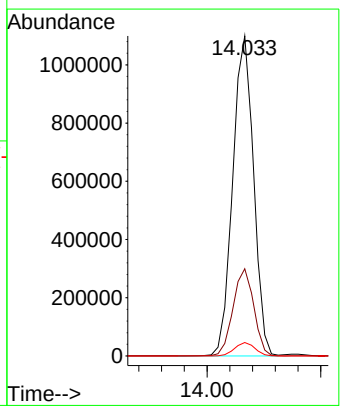


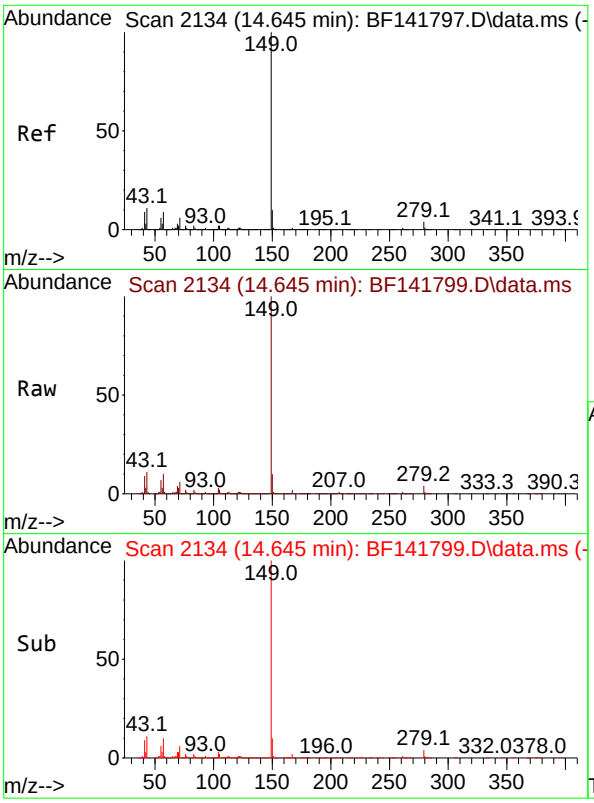


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.421 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



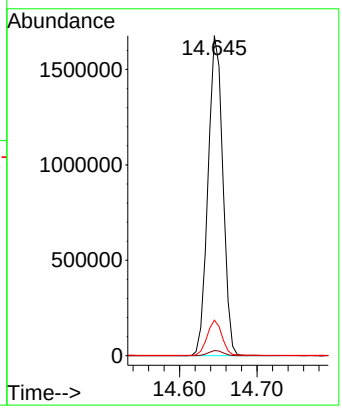


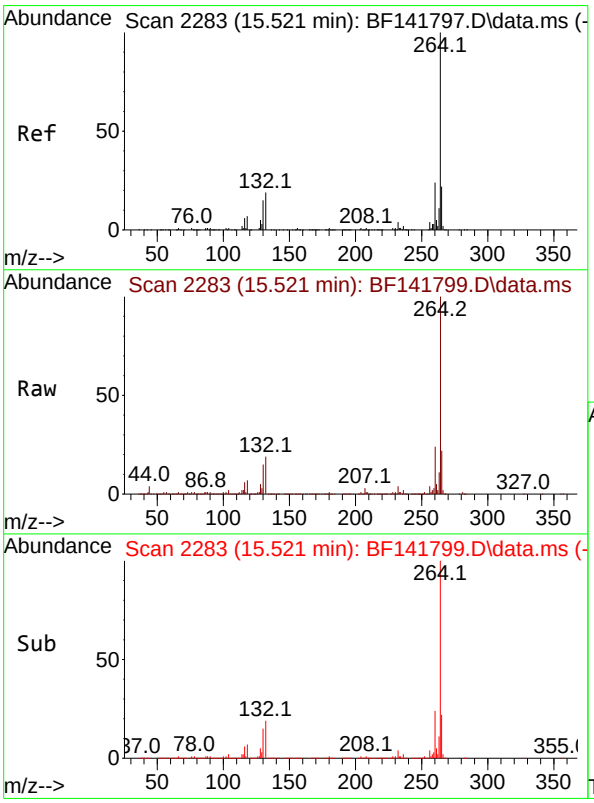
#85
Di-n-octyl phthalate
Concen: 67.411 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

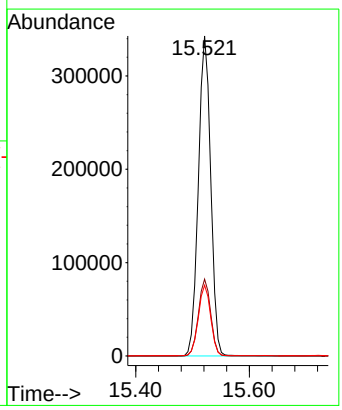


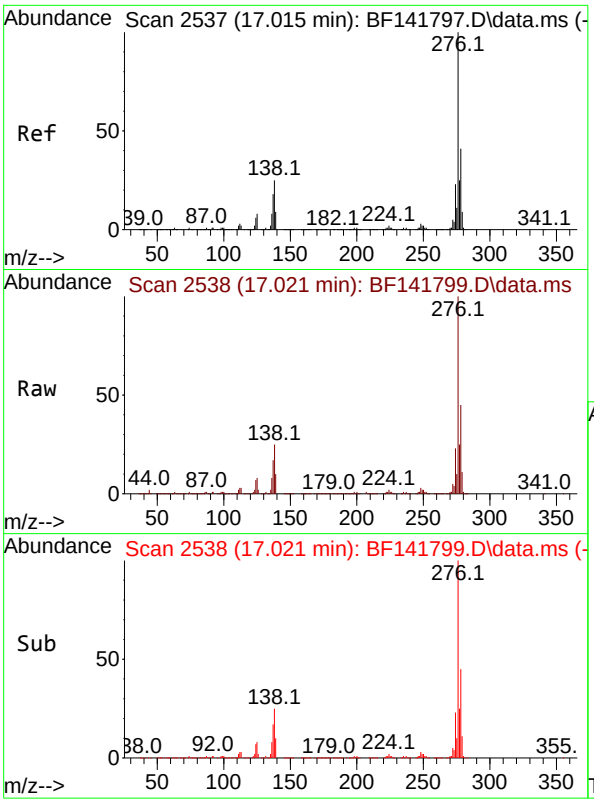


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



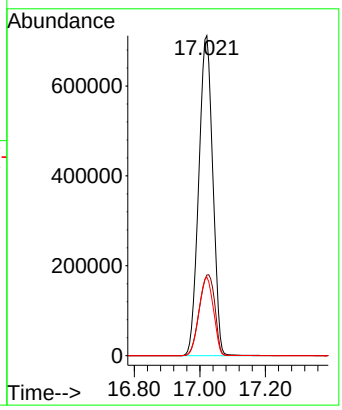


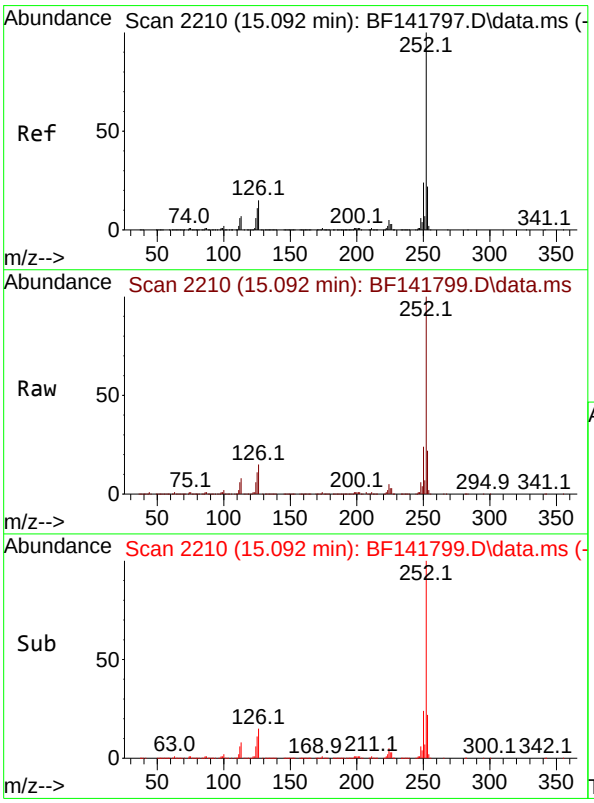
#87
Indeno(1,2,3-cd)pyrene
Concen: 64.589 ng
RT: 17.021 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

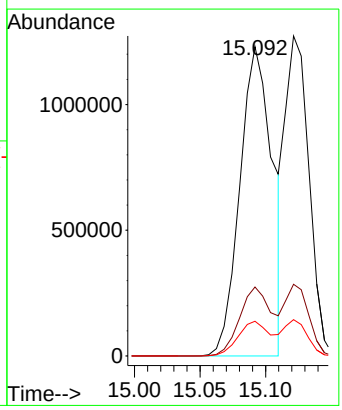


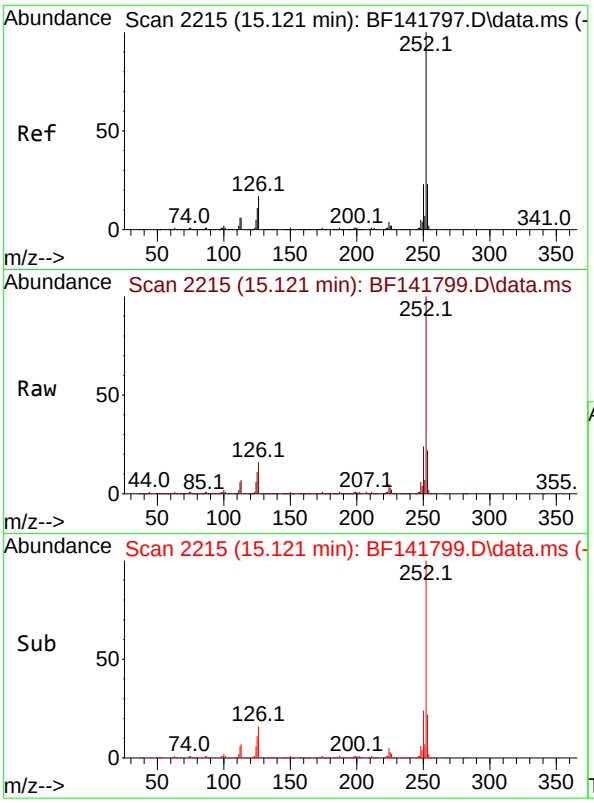


#88
Benzo(b)fluoranthene
Concen: 60.349 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



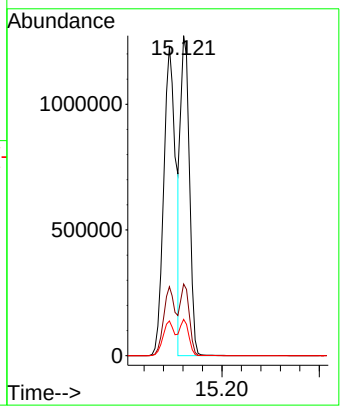


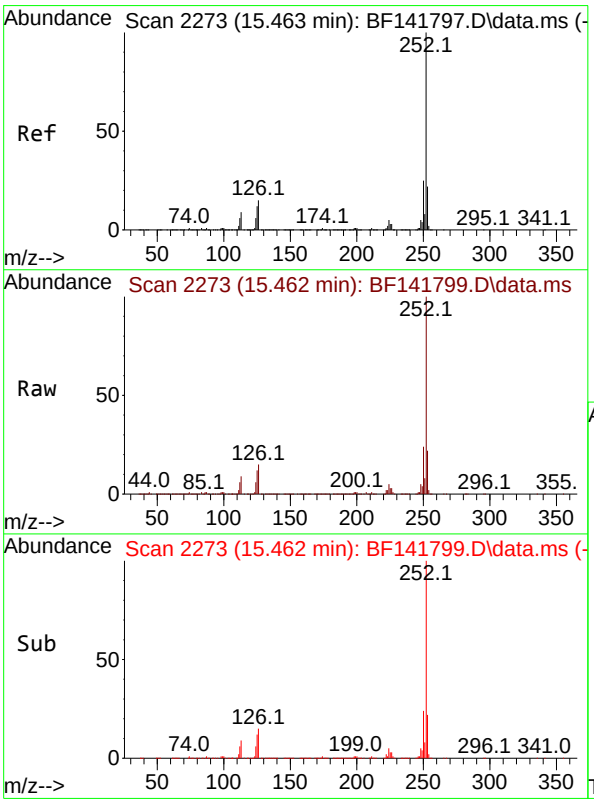
#89
Benzo(k)fluoranthene
Concen: 53.909 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

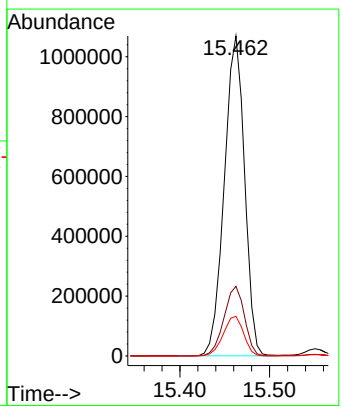


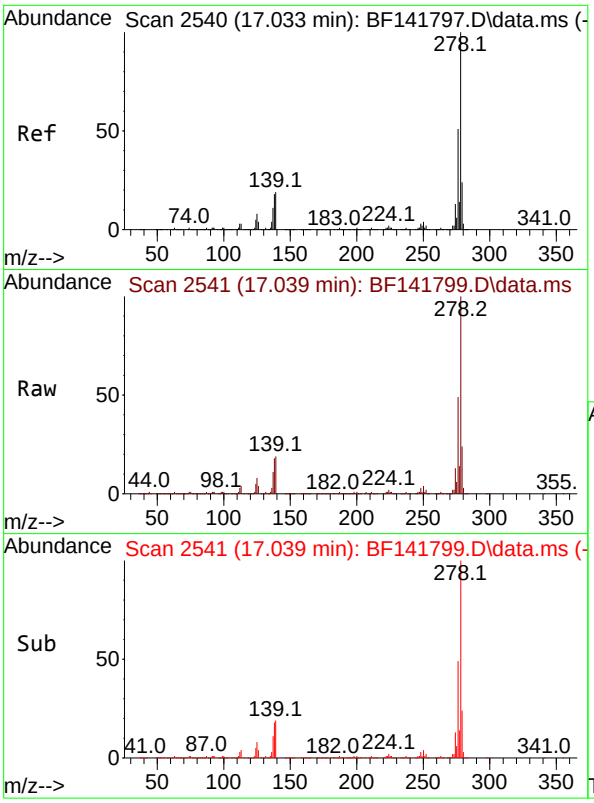


#90
Benzo(a)pyrene
Concen: 59.327 ng
RT: 15.462 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



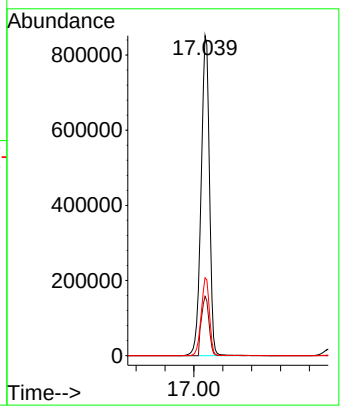


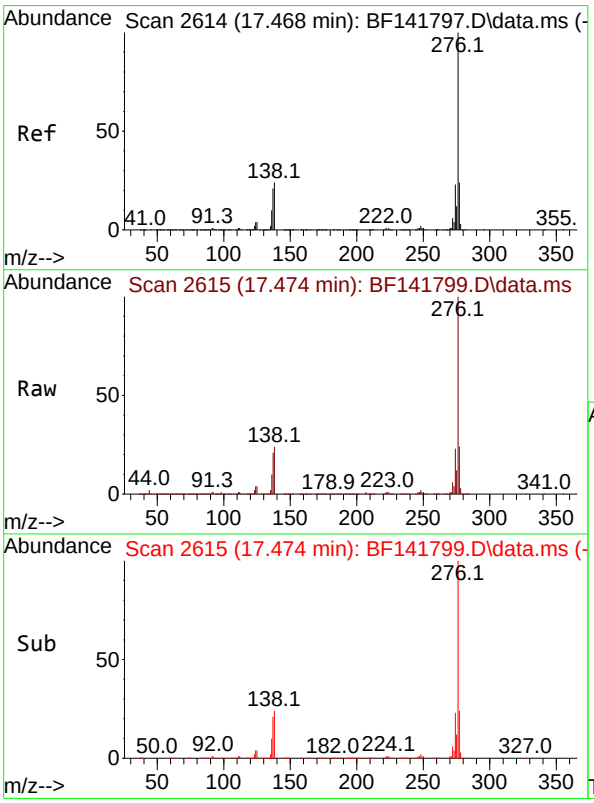
#91
Dibenzo(a,h)anthracene
Concen: 63.544 ng
RT: 17.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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

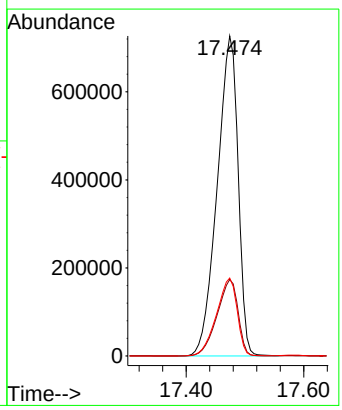




#92
Benzo(g,h,i)perylene
Concen: 65.105 ng
RT: 17.474 min Scan# 2615
Delta R.T. 0.006 min
Lab File: BF141799.D
Acq: 27 Feb 2025 18:15

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



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

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

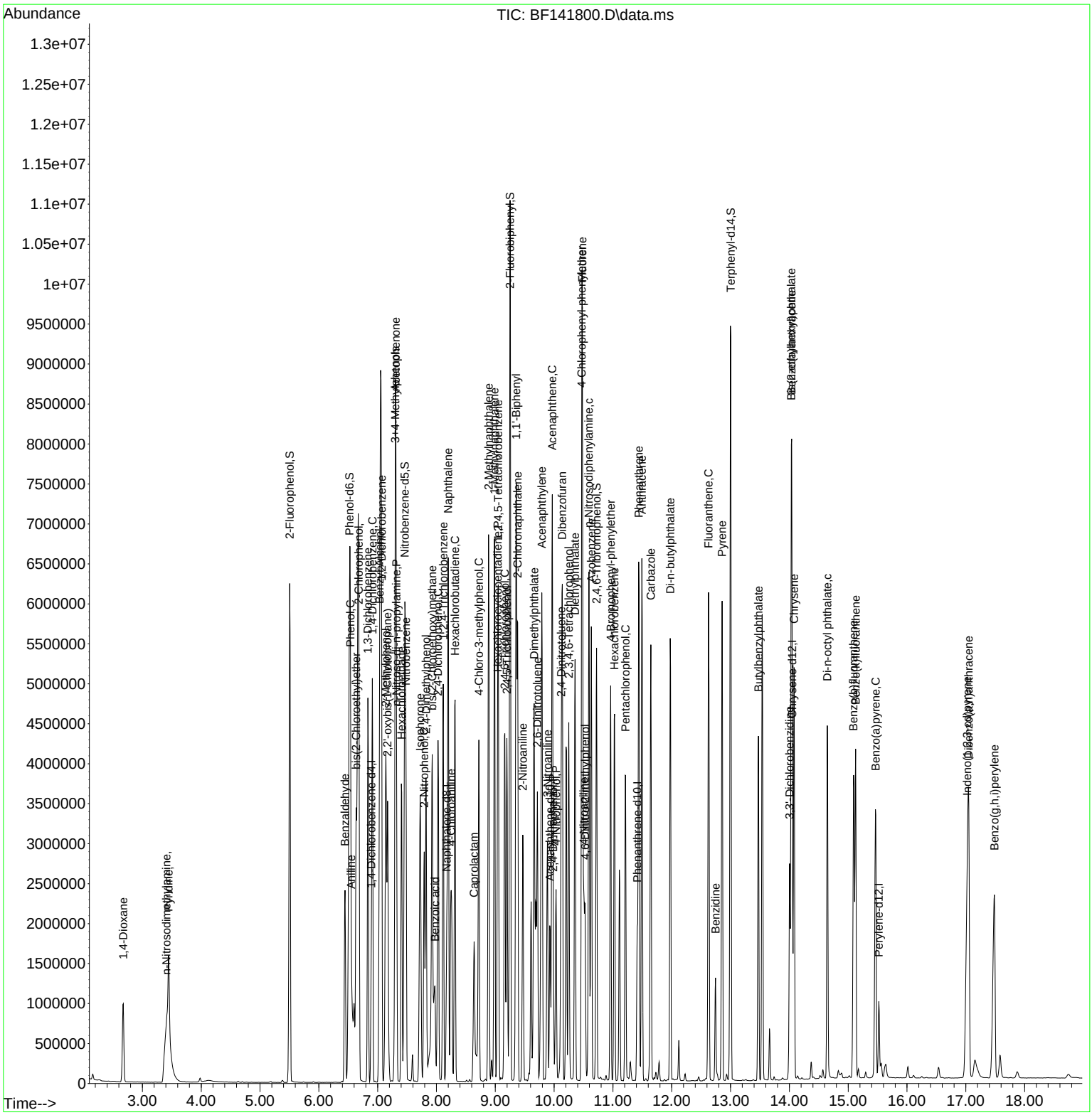
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141800.D
Acq On : 27 Feb 2025 18:45
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

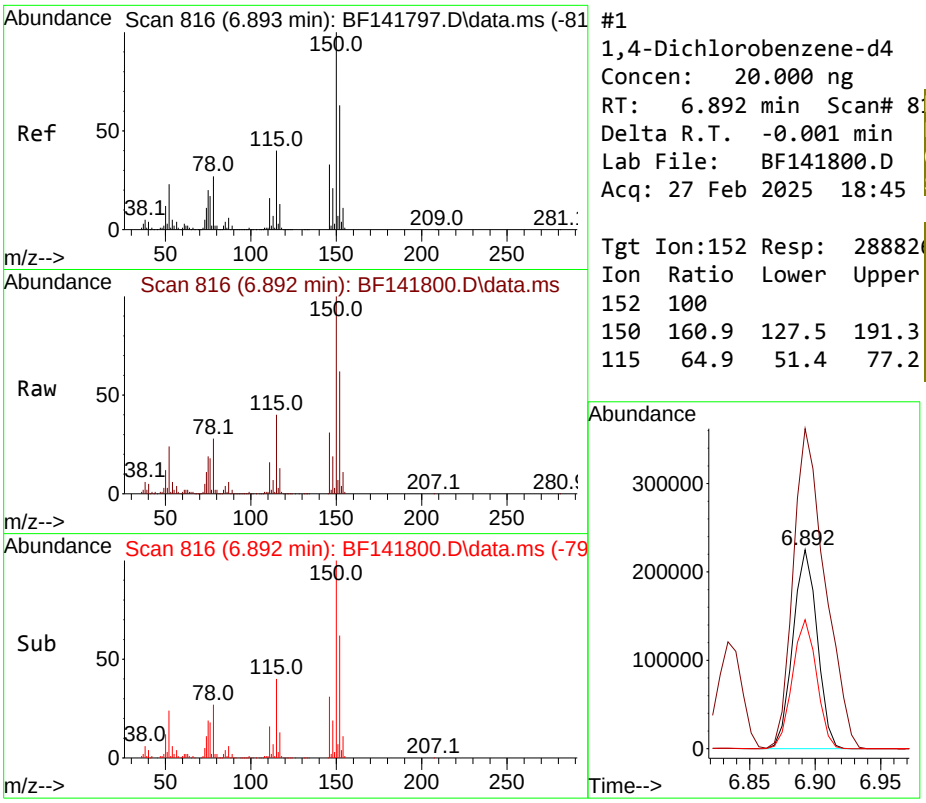
Quant Time: Feb 28 01:28:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:19:57 2025
Response via : Initial Calibration

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

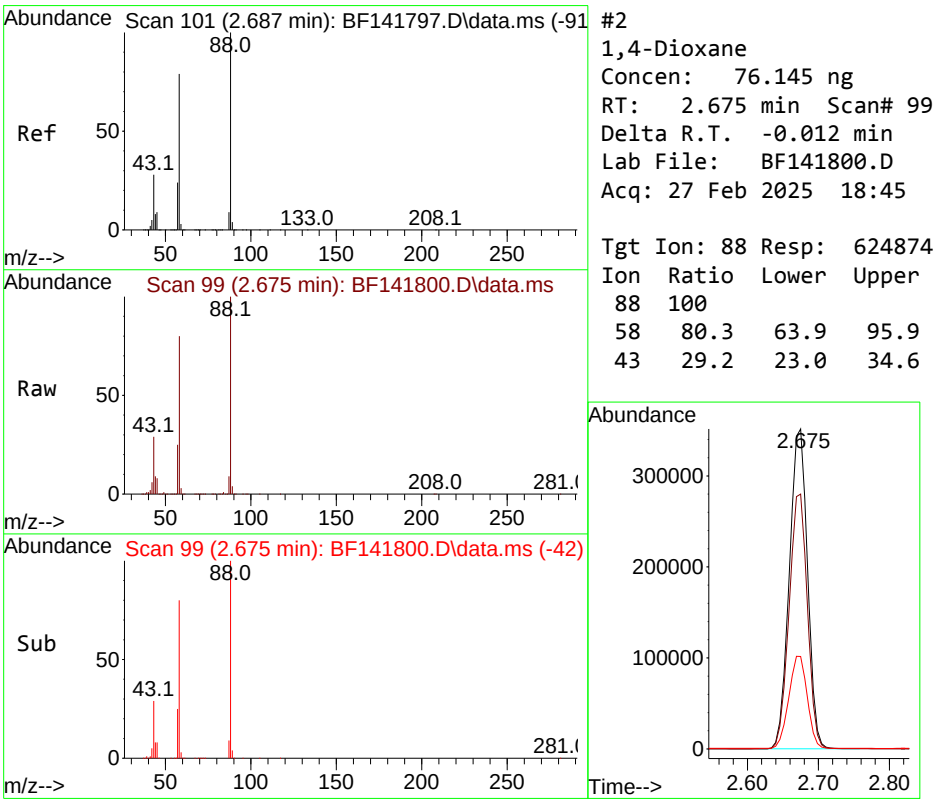
Tgt Ion:152 Resp: 28882

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

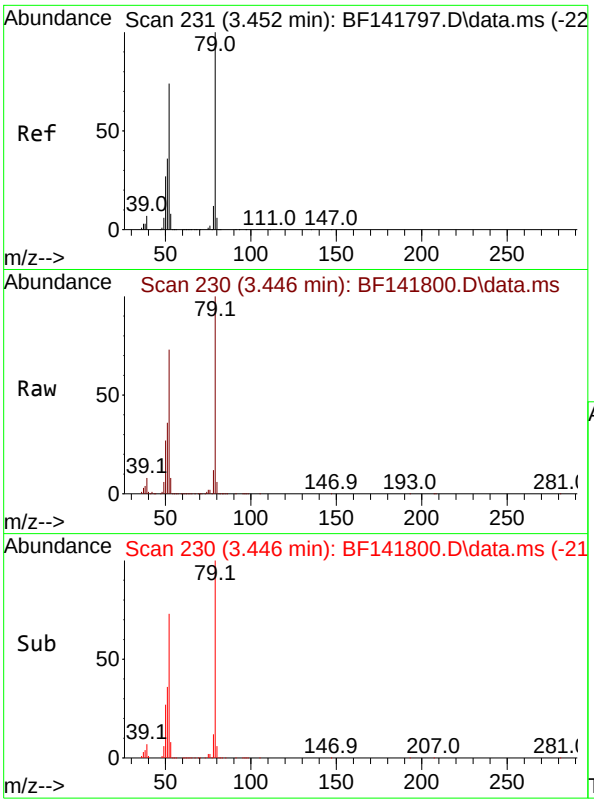
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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

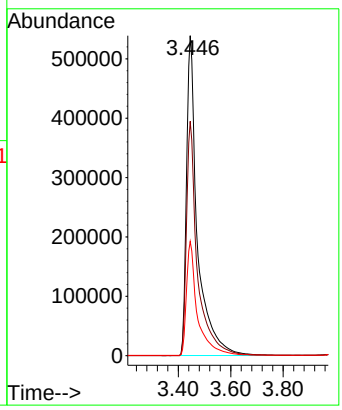
Ion	Ratio	Lower	Upper
88	100		
58	80.3	63.9	95.9
43	29.2	23.0	34.6



#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

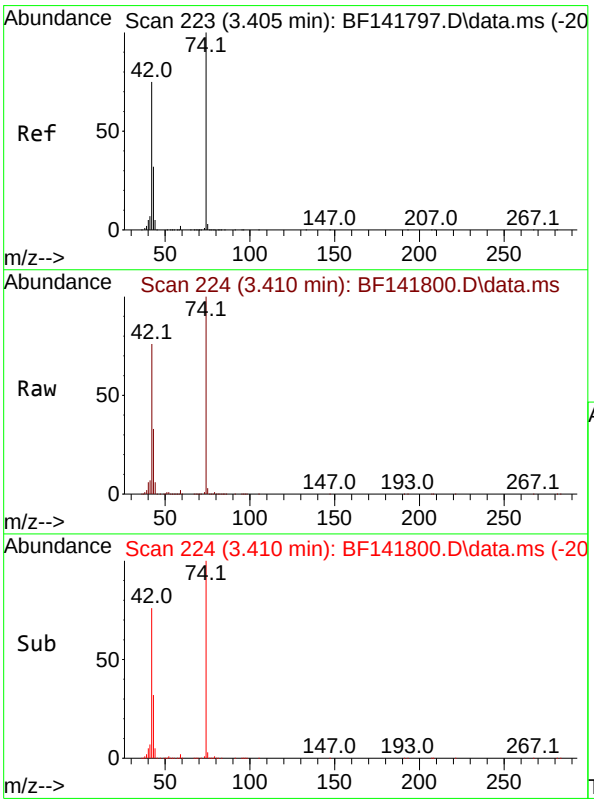
Ion	Ratio	Lower	Upper
79	100		
52	73.2	59.0	88.4
51	35.7	29.0	43.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

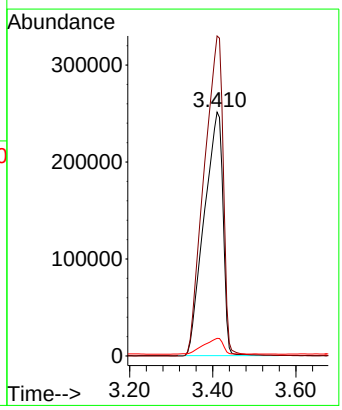
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

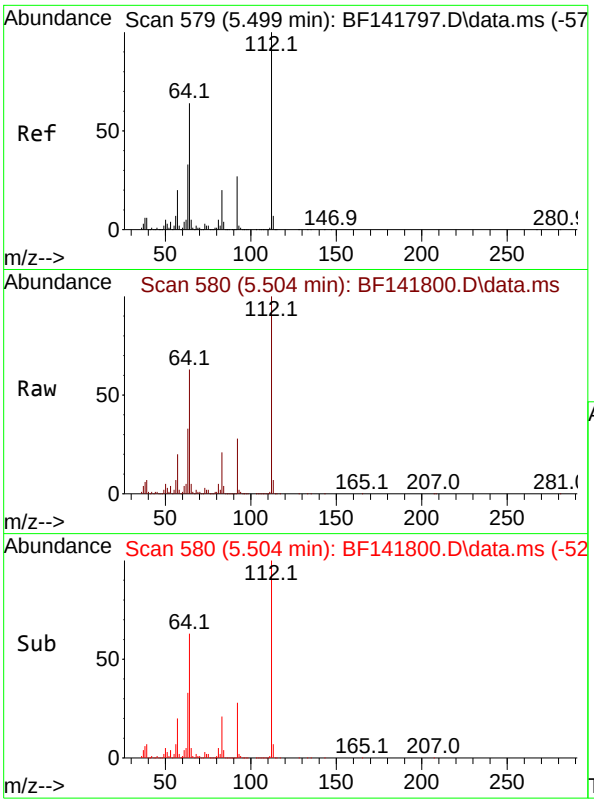


#4
n-Nitrosodimethylamine
Concen: 80.304 ng
RT: 3.410 min Scan# 224
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

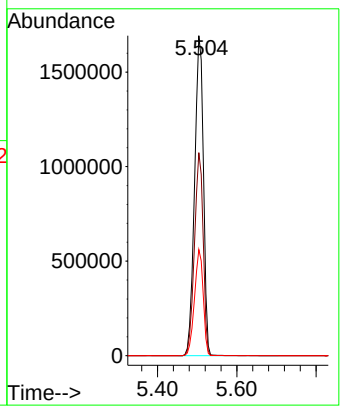




#5
2-Fluorophenol
Concen: 144.448 ng
RT: 5.504 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:112 Resp: 261244

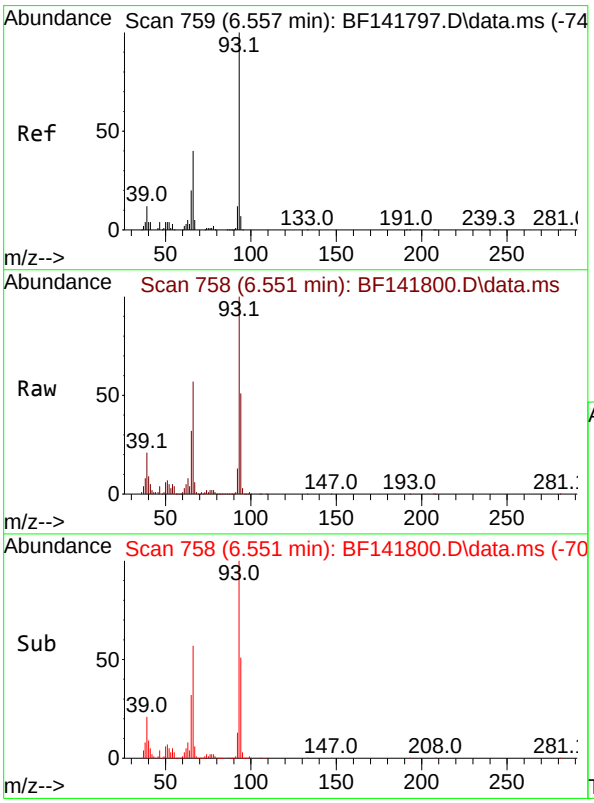
Ion	Ratio	Lower	Upper
112	100		
64	63.5	51.3	76.9
63	33.1	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

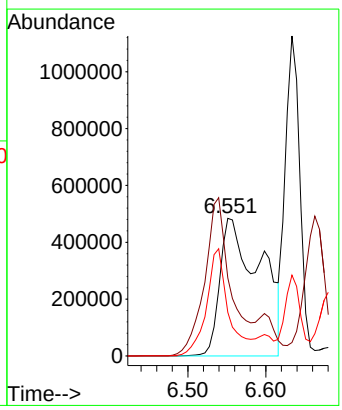
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

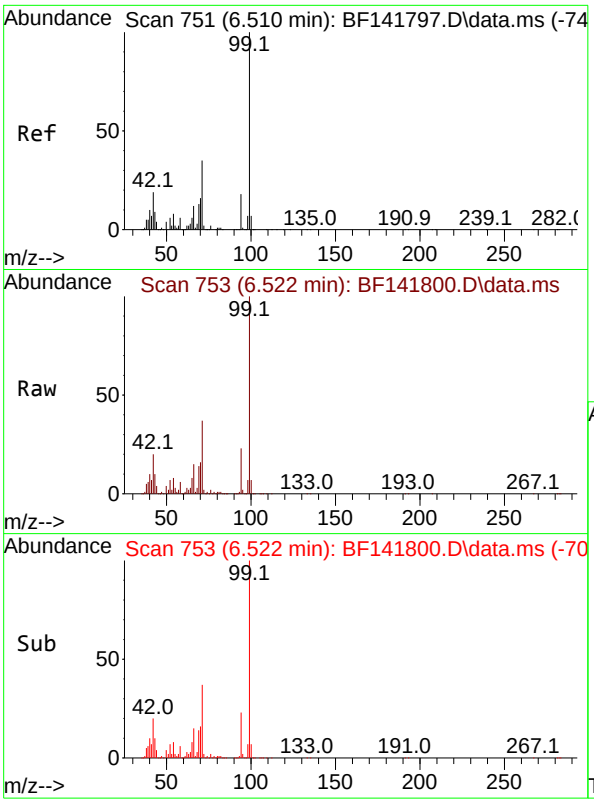


#6
Aniline
Concen: 71.624 ng m
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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#

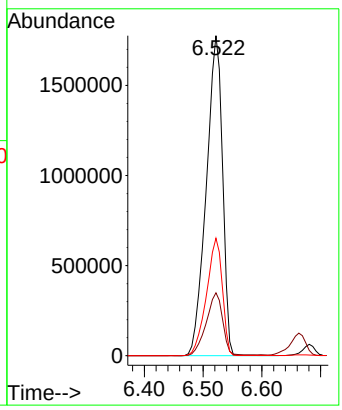




#7
Phenol-d6
Concen: 144.934 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 99 Resp: 341177

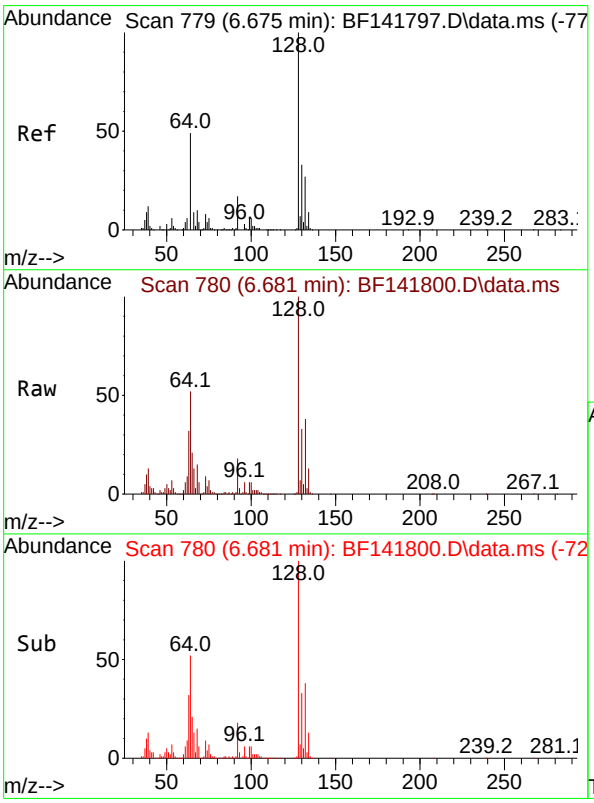
Ion	Ratio	Lower	Upper
99	100		
42	19.7	15.2	22.8
71	36.7	28.2	42.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

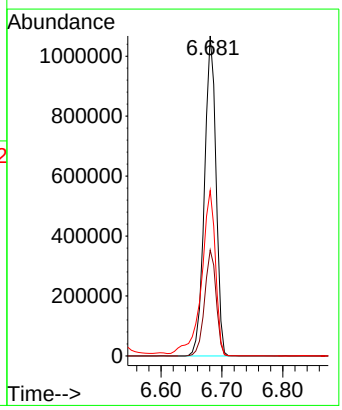
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

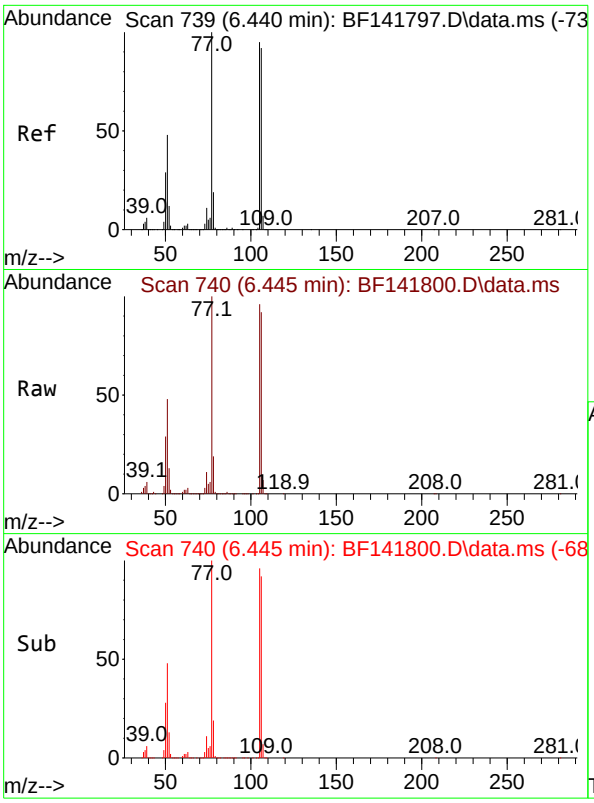


#8
2-Chlorophenol
Concen: 72.047 ng
RT: 6.681 min Scan# 780
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

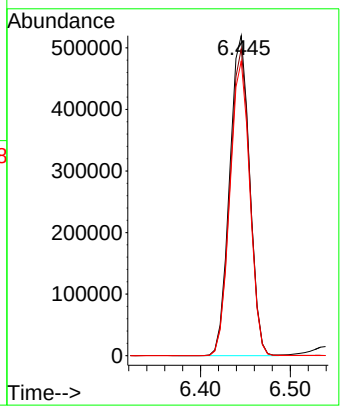




#9
Benzaldehyde
Concen: 58.556 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 80179

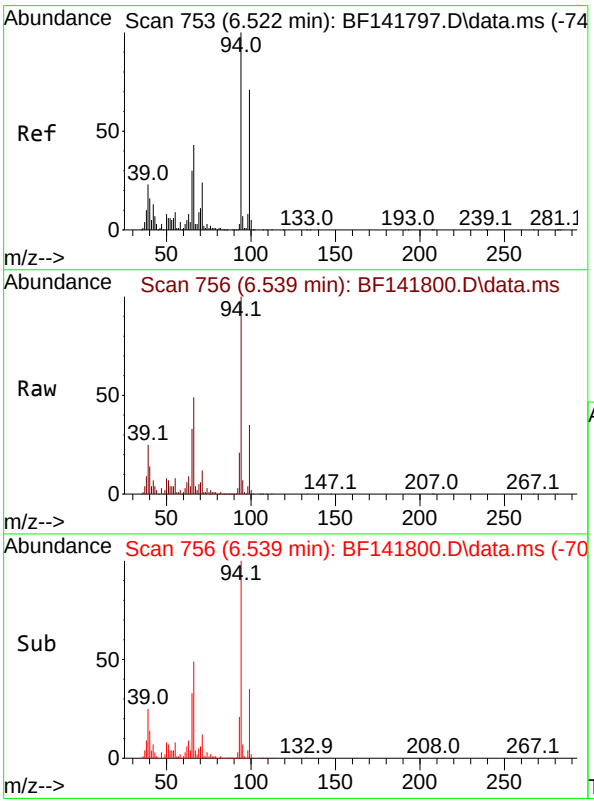
Ion	Ratio	Lower	Upper
77	100		
105	95.9	75.3	115.3
106	92.1	72.3	112.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

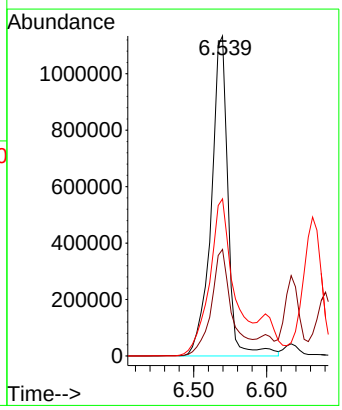
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

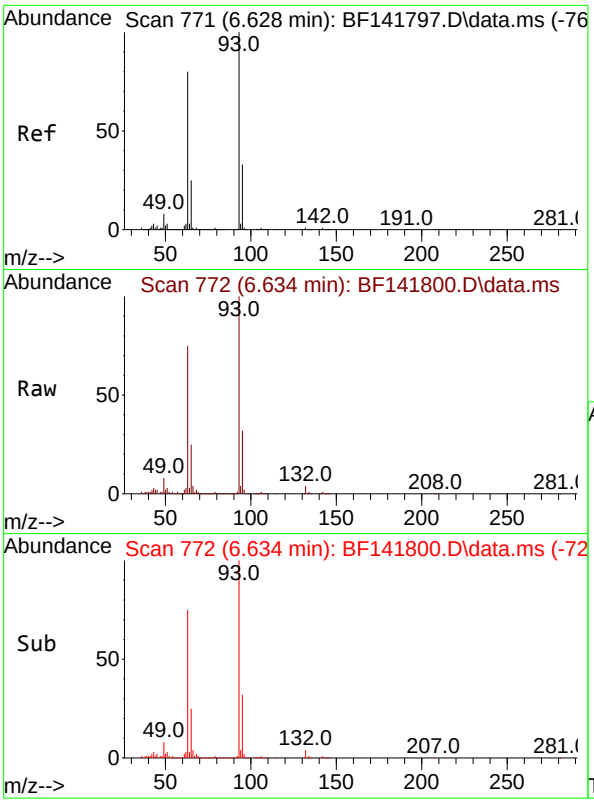


#10
Phenol
Concen: 72.063 ng m
RT: 6.539 min Scan# 756
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

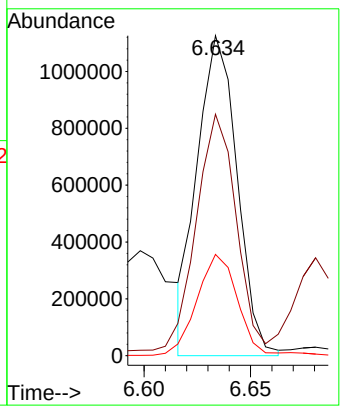




#11
bis(2-Chloroethyl)ether
Concen: 76.240 ng
RT: 6.634 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 93 Resp: 146186

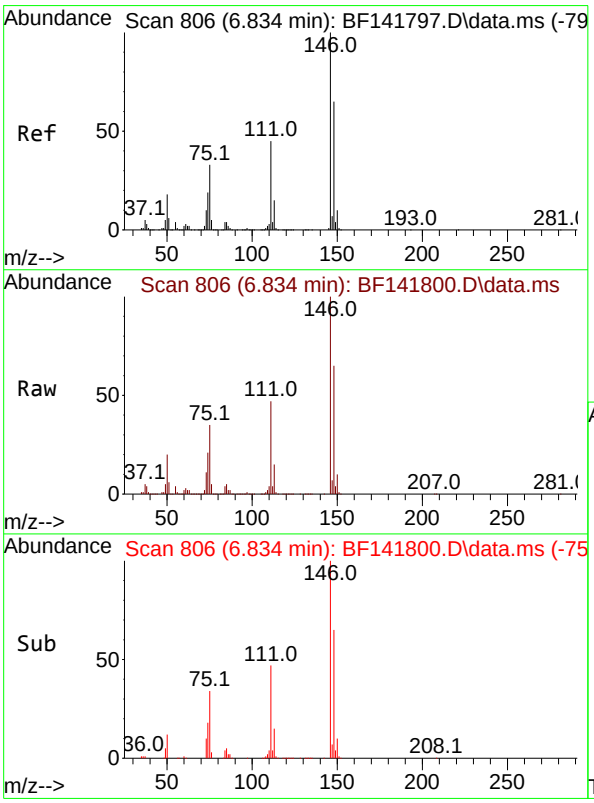
Ion	Ratio	Lower	Upper
93	100		
63	75.5	59.3	99.3
95	31.7	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

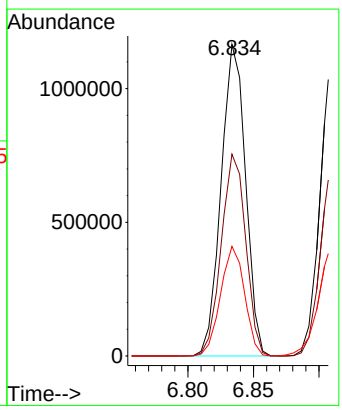
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

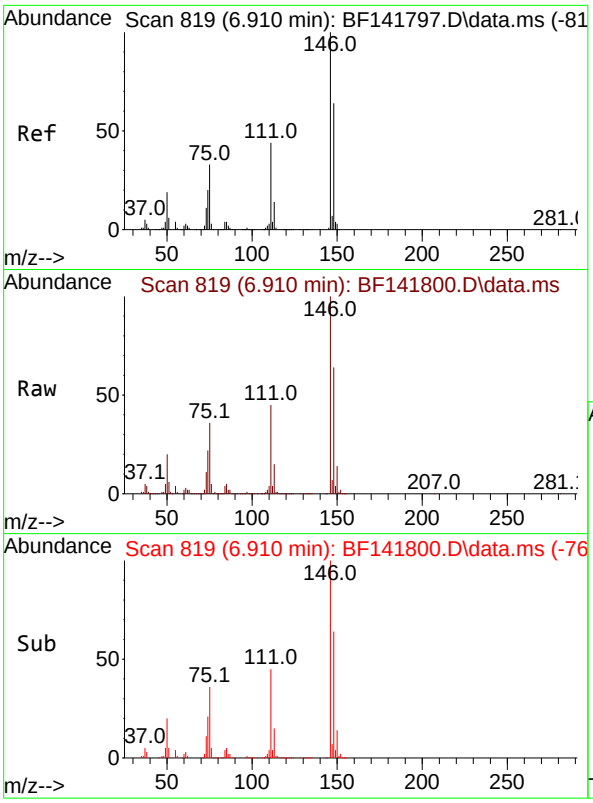


#12
1,3-Dichlorobenzene
Concen: 72.103 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

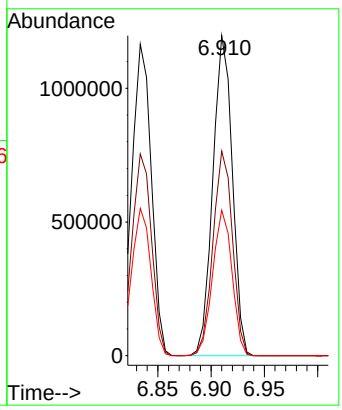




#13
1,4-Dichlorobenzene
Concen: 72.097 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:146 Resp: 152204

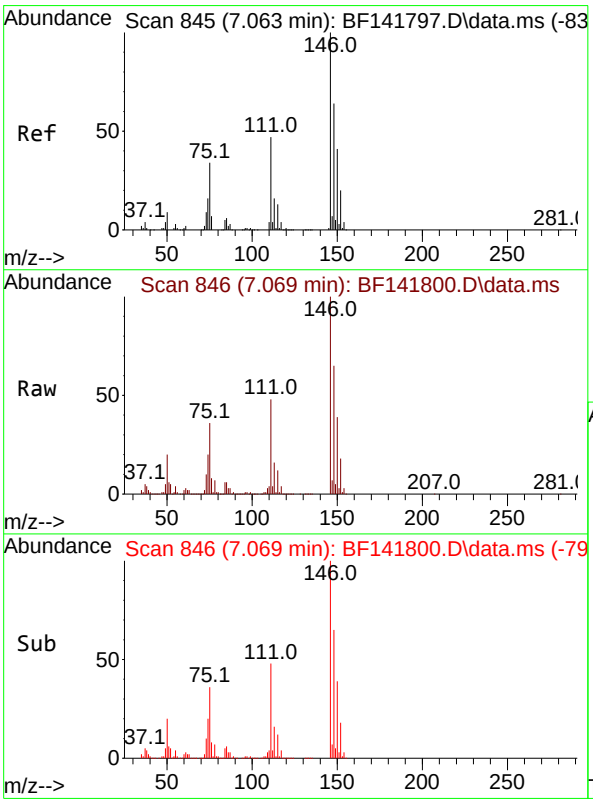
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.4	77.2
111	45.5	35.5	53.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

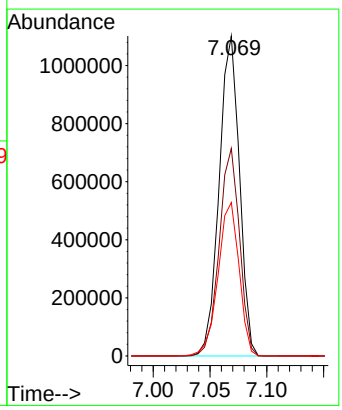
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

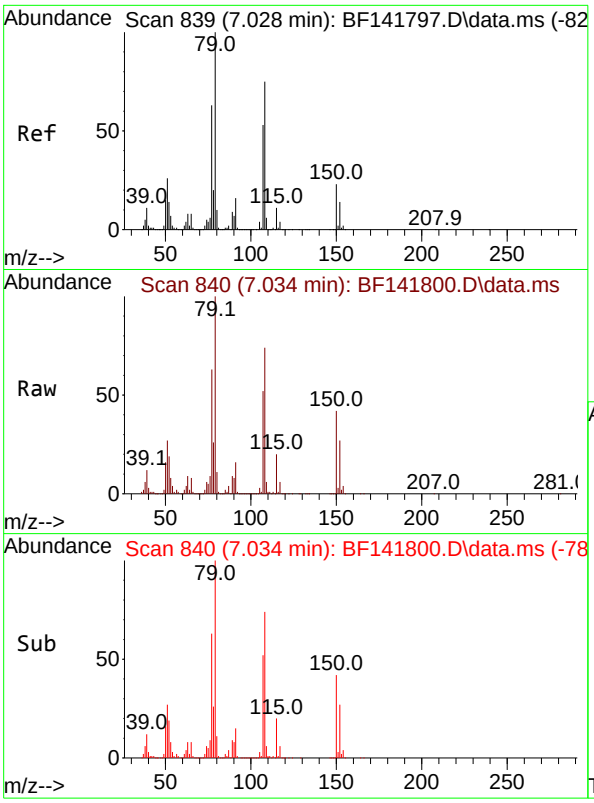


#14
1,2-Dichlorobenzene
Concen: 69.519 ng
RT: 7.069 min Scan# 846
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

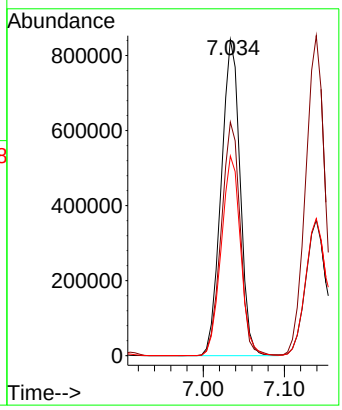
Tgt Ion: 79 Resp: 136309

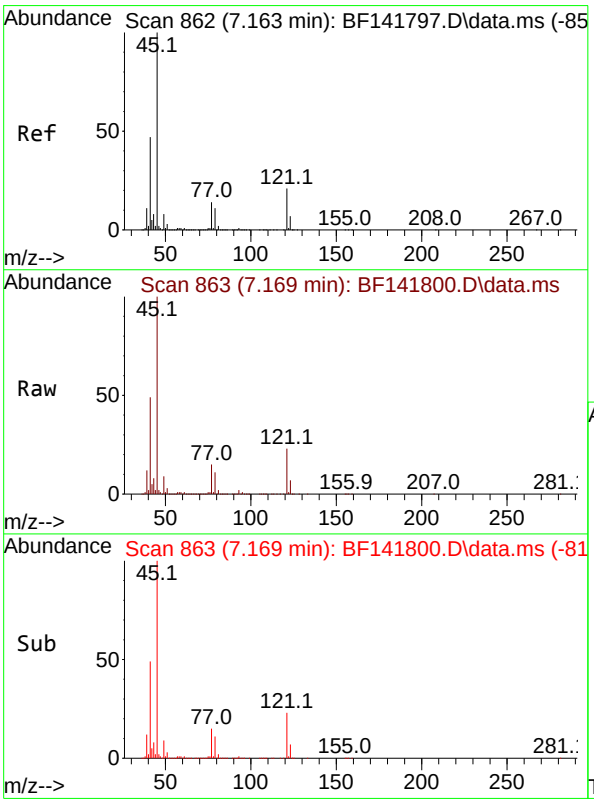
Ion	Ratio	Lower	Upper
79	100		
108	73.9	60.2	90.2
77	63.2	50.2	75.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

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

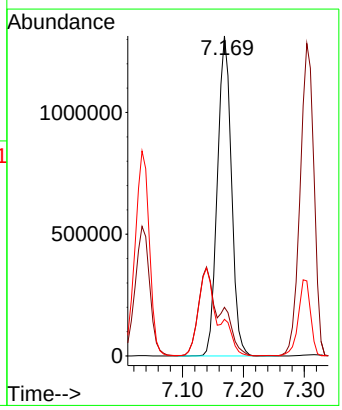


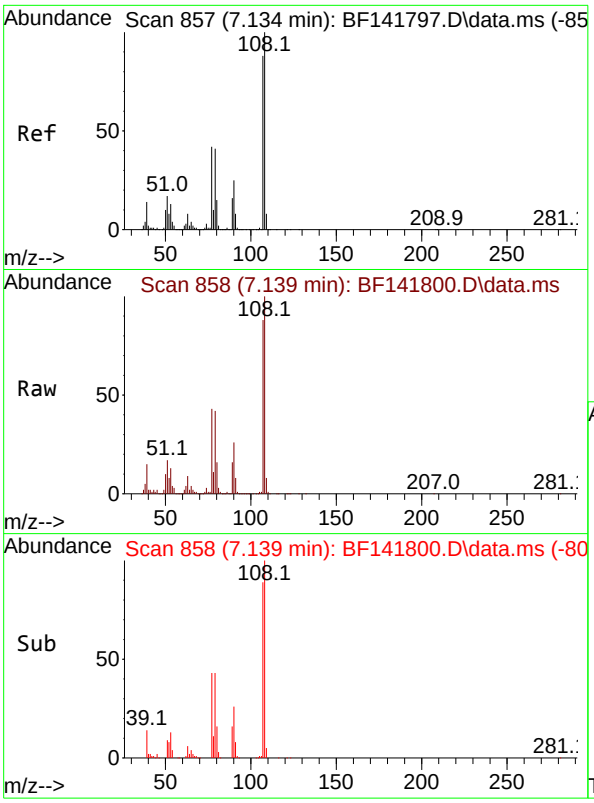


#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.973 ng
RT: 7.169 min Scan# 863
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

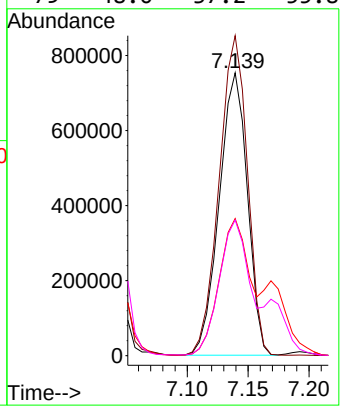




#17
2-Methylphenol
Concen: 75.016 ng
RT: 7.139 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:107 Resp: 121143

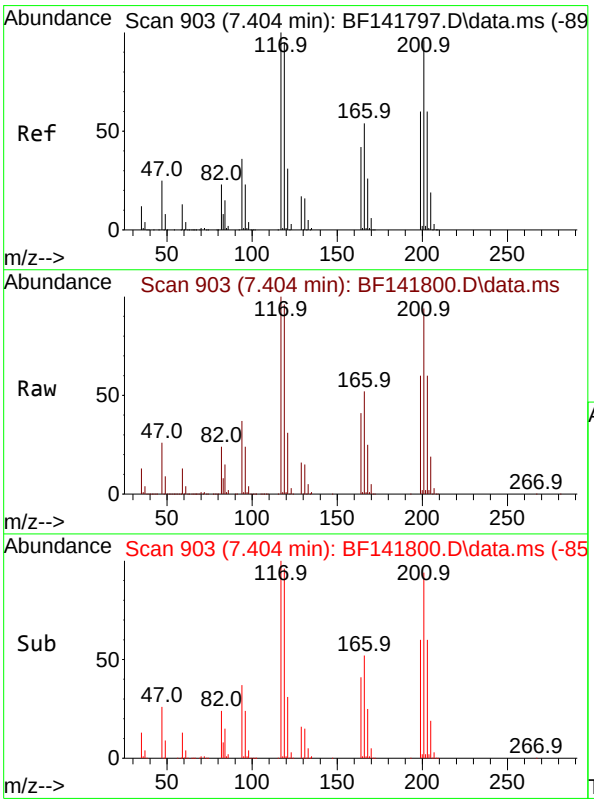
Ion	Ratio	Lower	Upper
107	100		
108	113.1	90.6	135.8
77	48.5	37.7	56.5
79	48.0	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

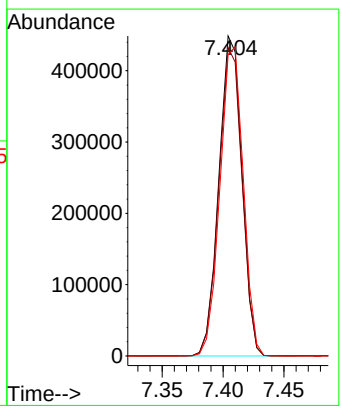
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

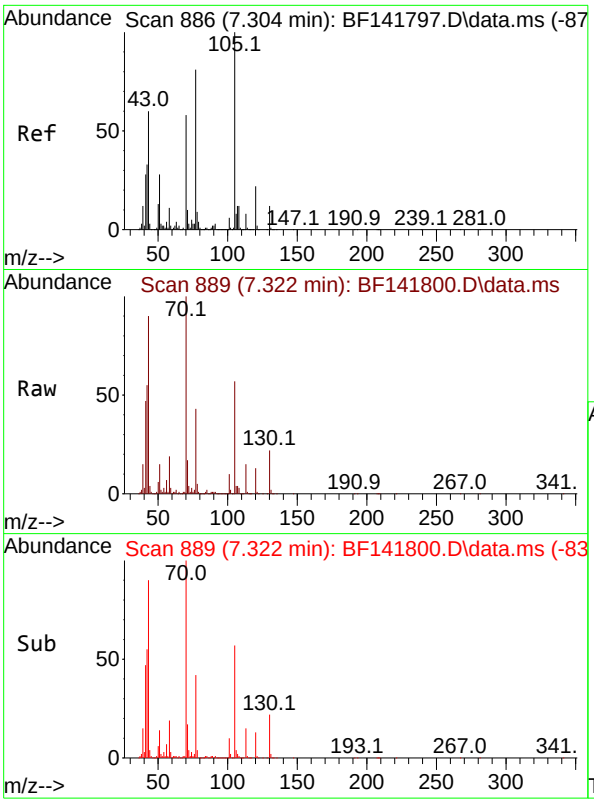


#18
Hexachloroethane
Concen: 75.056 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

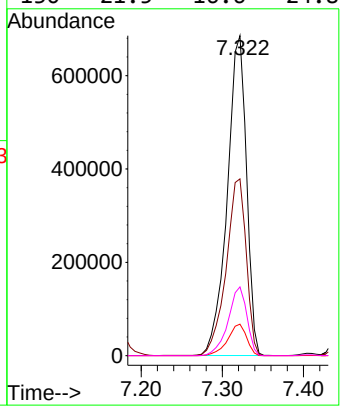




#19
n-Nitroso-di-n-propylamine
Concen: 72.793 ng
RT: 7.322 min Scan# 8
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 70 Resp: 112642

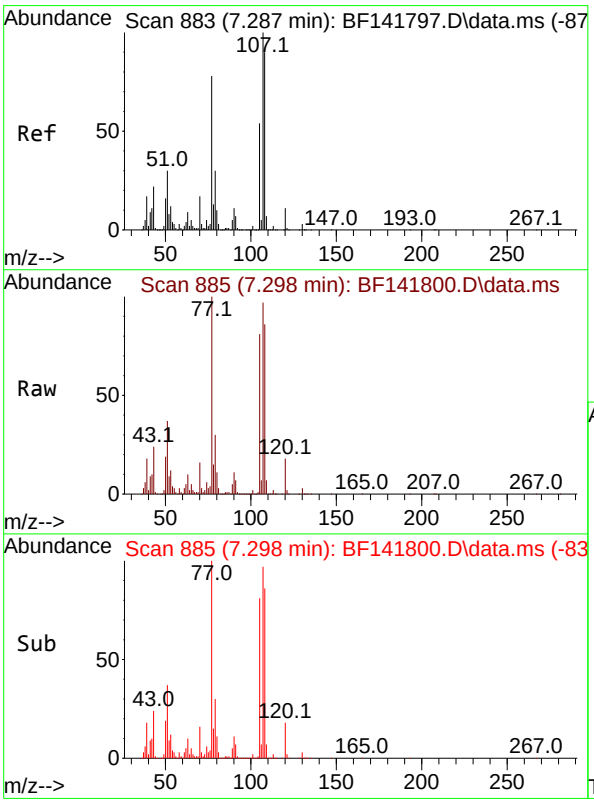
Ion	Ratio	Lower	Upper
70	100		
42	55.3	45.4	68.0
101	9.8	7.8	11.8
130	21.5	16.6	24.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

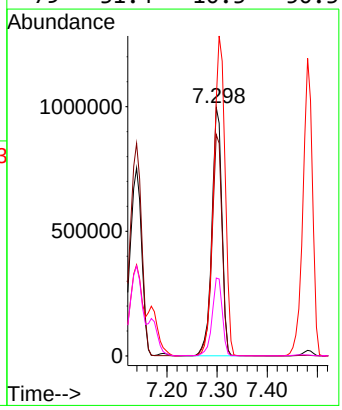
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

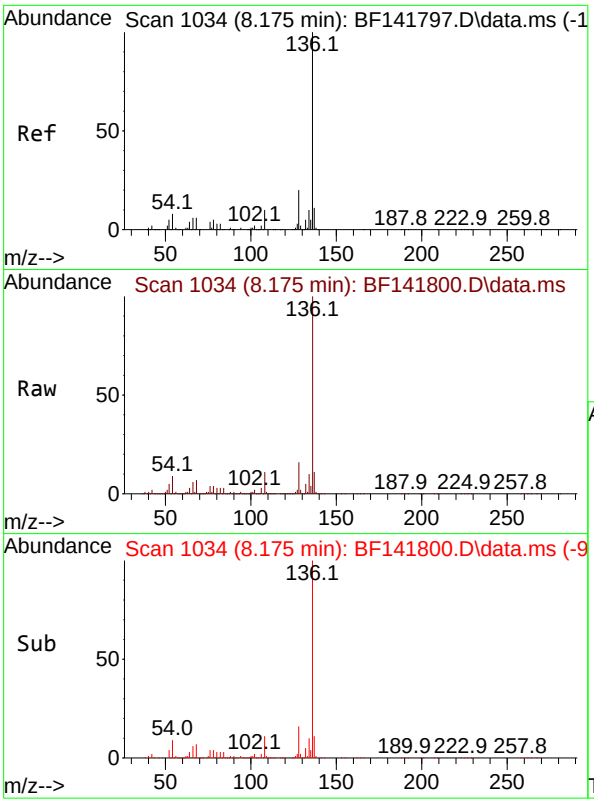


#20
3+4-Methylphenols
Concen: 68.816 ng
RT: 7.298 min Scan# 885
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

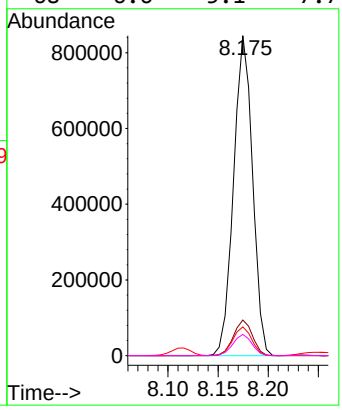




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:136 Resp: 111493

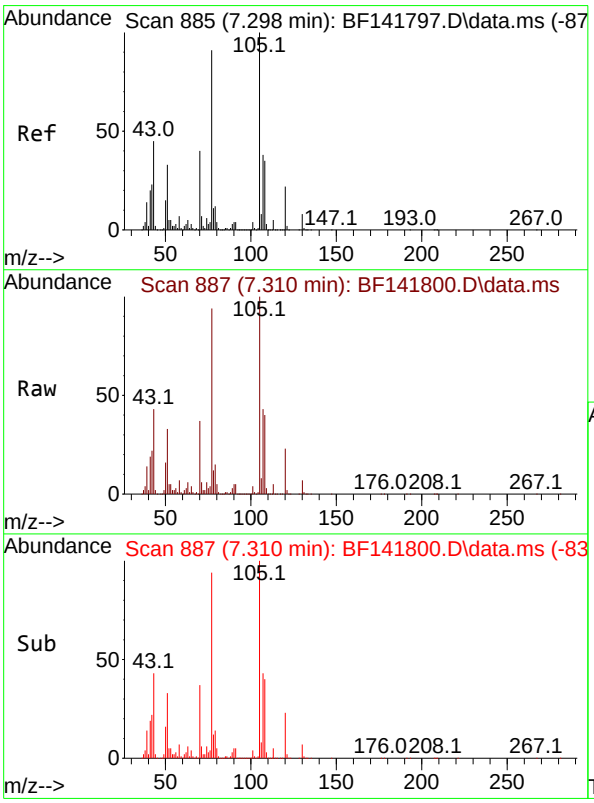
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.0	6.9	10.3
68	6.6	5.1	7.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

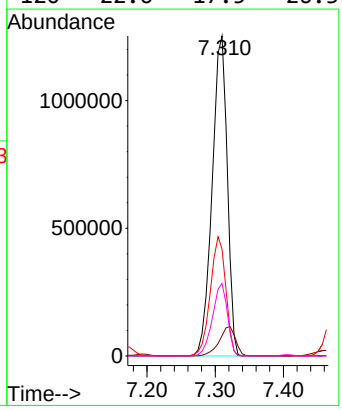
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

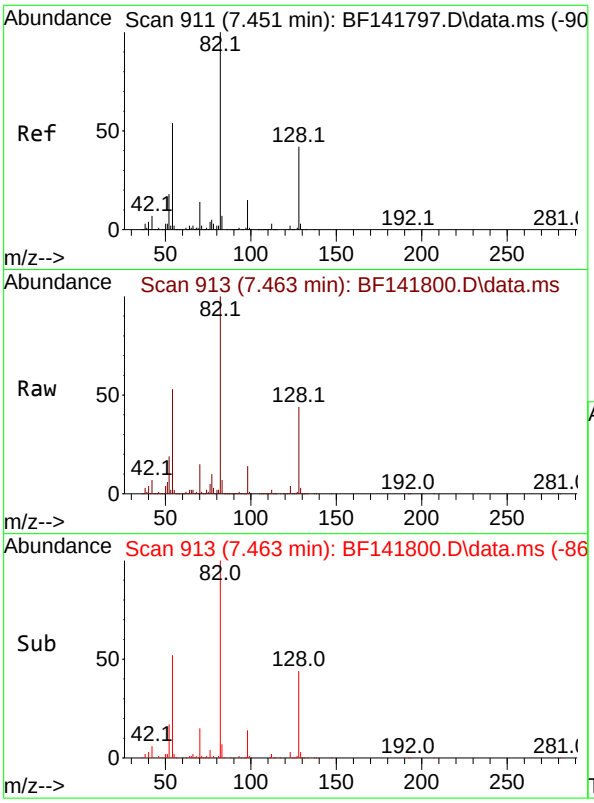


#22
Acetophenone
Concen: 71.209 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

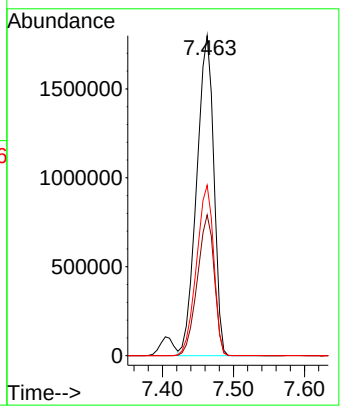




#23
Nitrobenzene-d5
Concen: 173.576 ng
RT: 7.463 min Scan# 9
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 302761

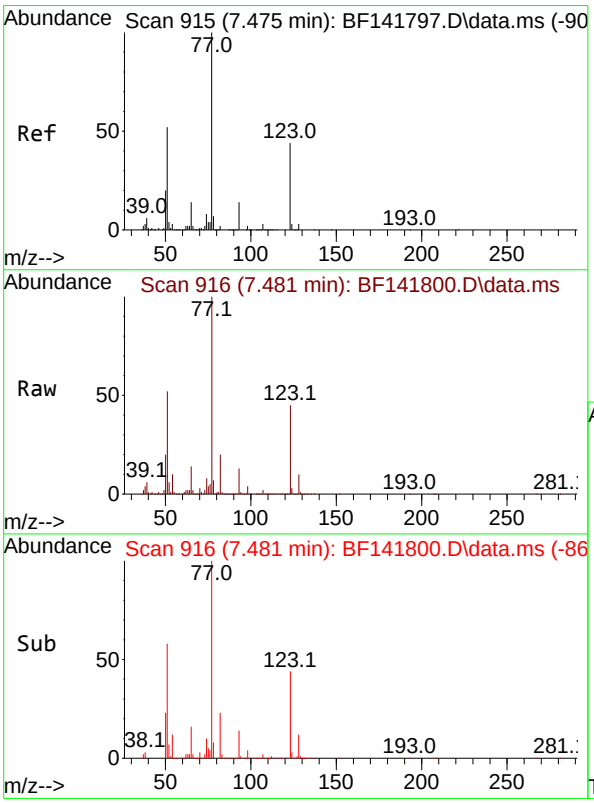
Ion	Ratio	Lower	Upper
82	100		
128	44.0	33.5	50.3
54	53.3	42.7	64.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

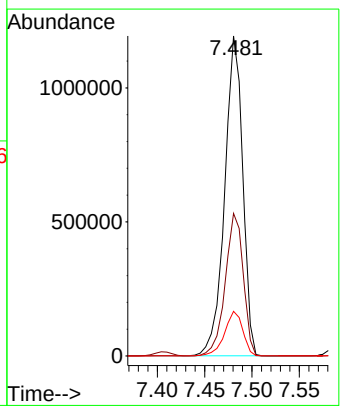
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

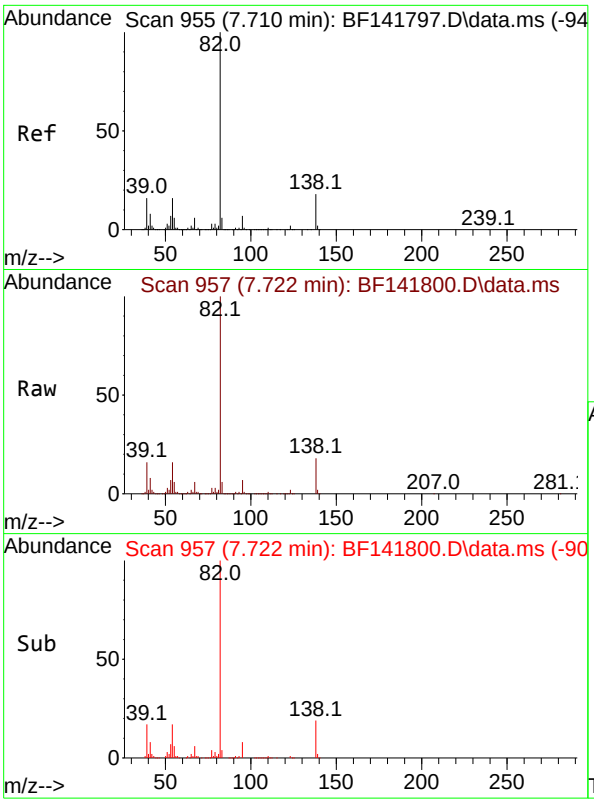


#24
Nitrobenzene
Concen: 84.587 ng
RT: 7.481 min Scan# 916
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

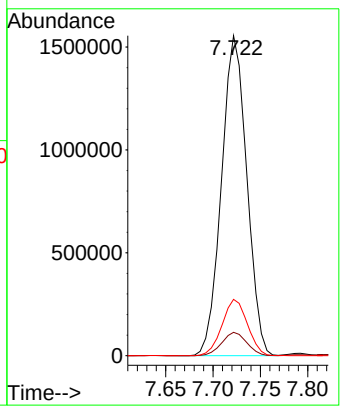




#25
Isophorone
Concen: 77.230 ng
RT: 7.722 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 82 Resp: 289404

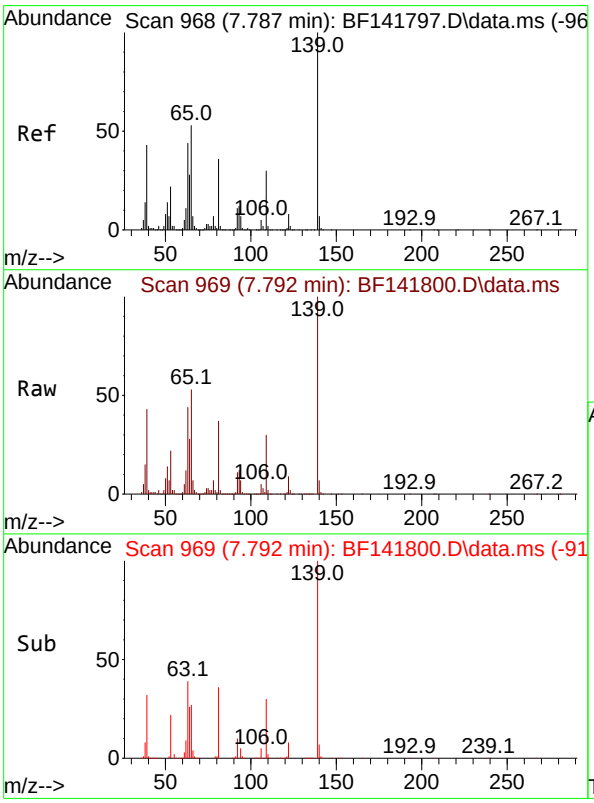
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	17.6	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

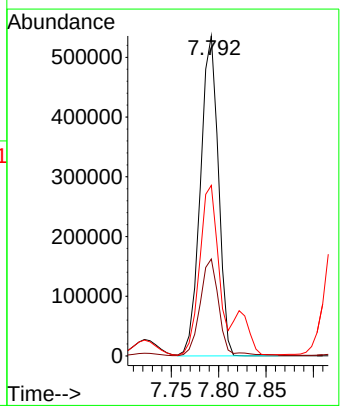
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

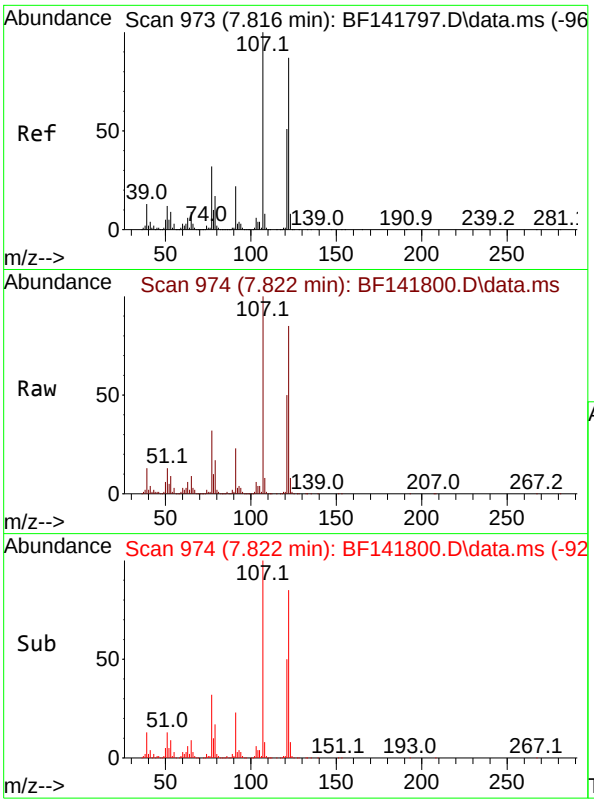


#26
2-Nitrophenol
Concen: 81.046 ng
RT: 7.792 min Scan# 969
Delta R.T. 0.005 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

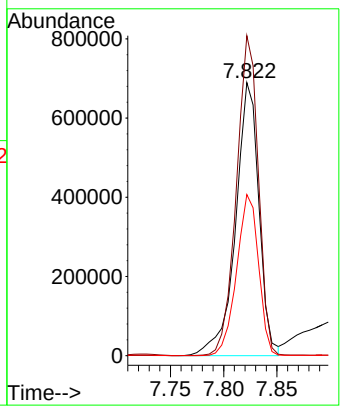




#27
2,4-Dimethylphenol
Concen: 76.304 ng
RT: 7.822 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:122 Resp: 105107

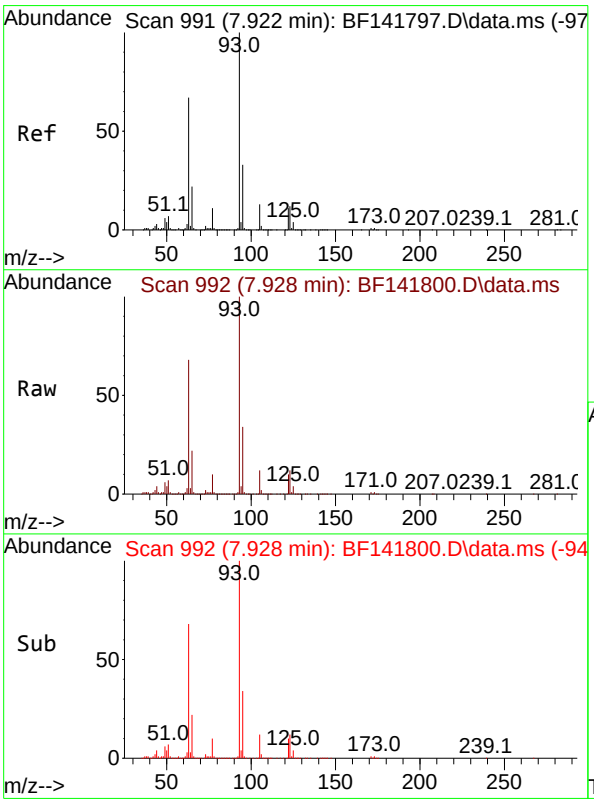
Ion	Ratio	Lower	Upper
122	100		
107	117.2	92.5	138.7
121	59.0	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

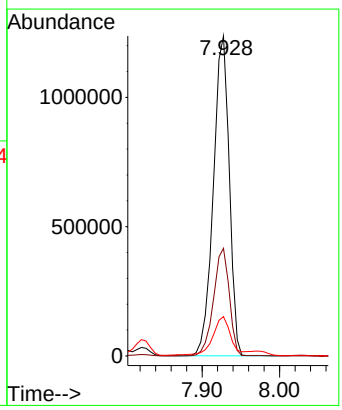
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

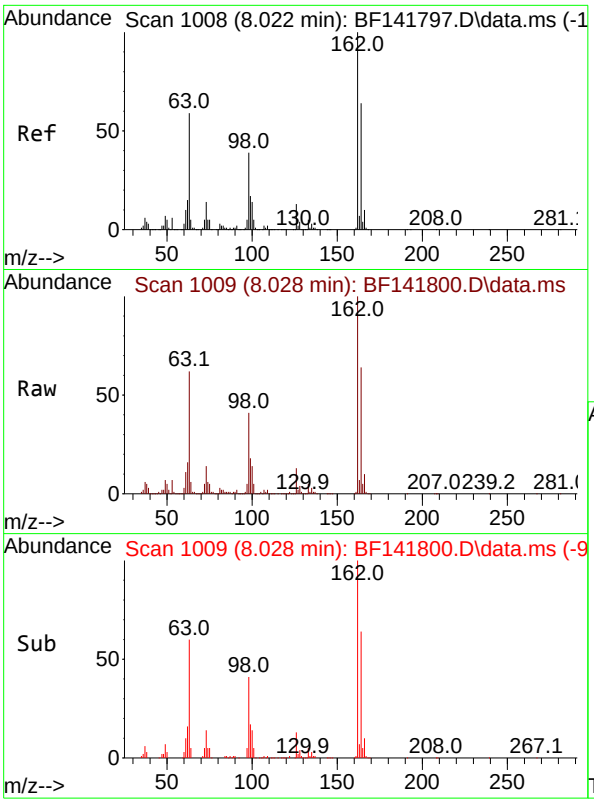


#28
bis(2-Chloroethoxy)methane
Concen: 73.596 ng
RT: 7.928 min Scan# 992
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

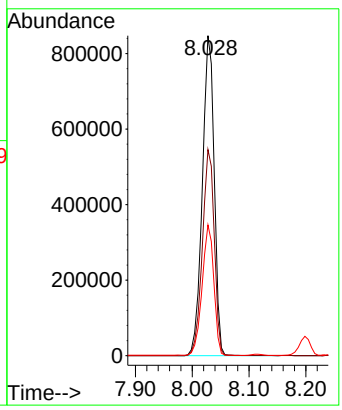




#29
2,4-Dichlorophenol
Concen: 77.239 ng
RT: 8.028 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:162 Resp: 122740

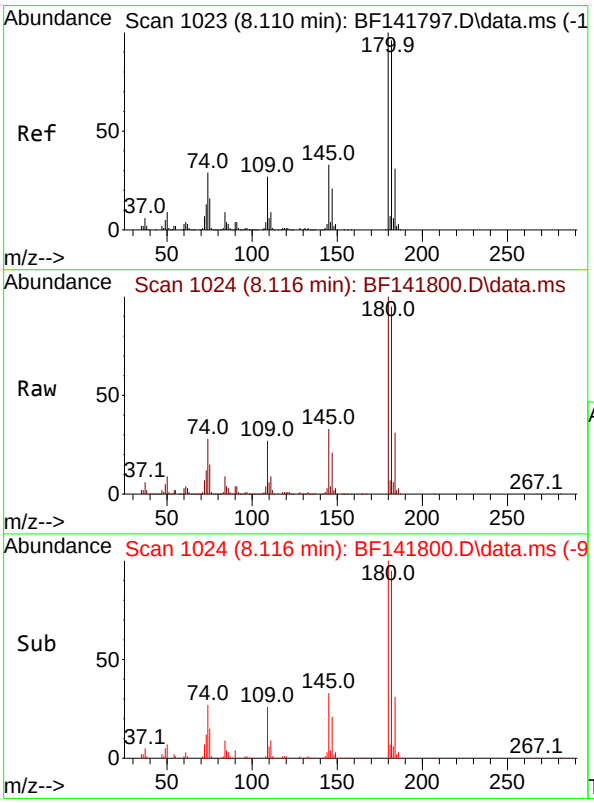
Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.3	84.3
98	40.8	19.6	59.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

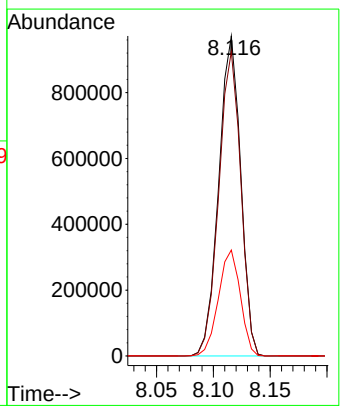
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

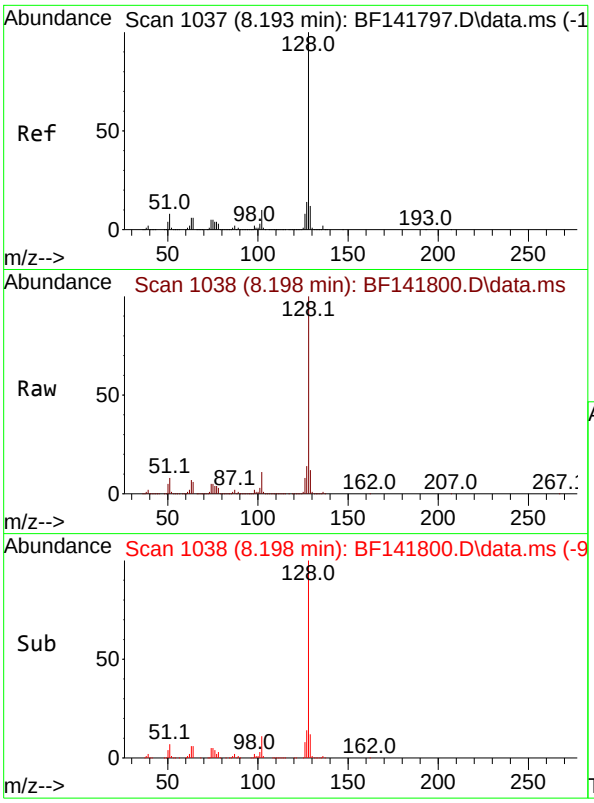


#30
1,2,4-Trichlorobenzene
Concen: 74.888 ng
RT: 8.116 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

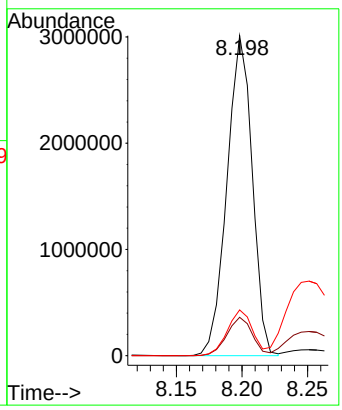




#31
Naphthalene
Concen: 70.504 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:128 Resp: 404011

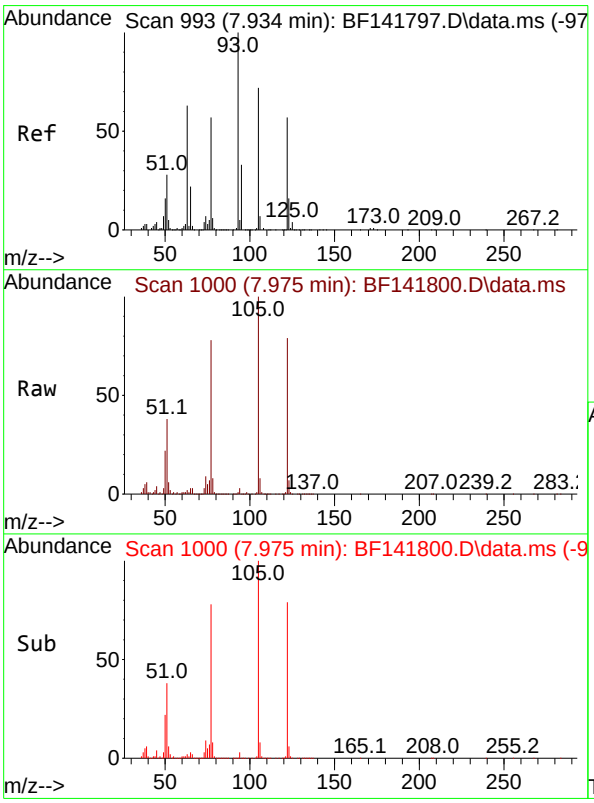
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.2	13.8
127	14.3	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

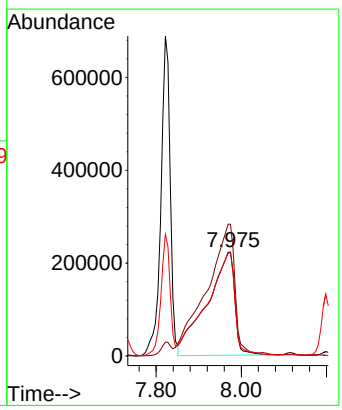
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

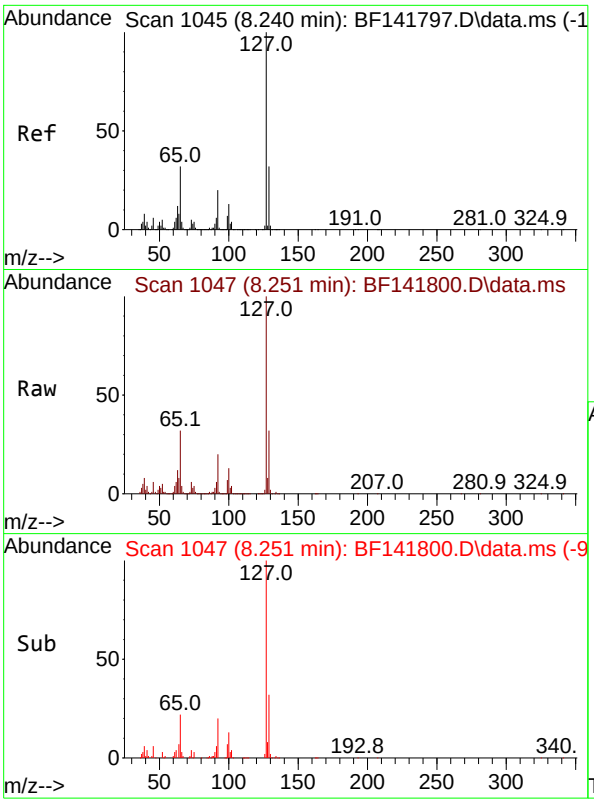


#32
Benzoic acid
Concen: 81.363 ng
RT: 7.975 min Scan# 1000
Delta R.T. 0.041 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

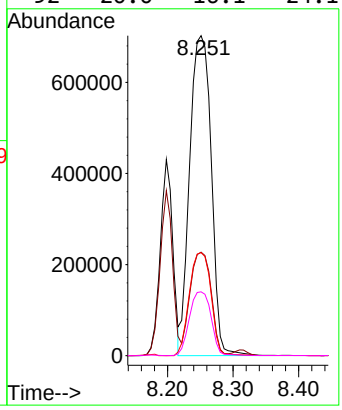




#33
4-Chloroaniline
Concen: 76.489 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:127 Resp: 160709

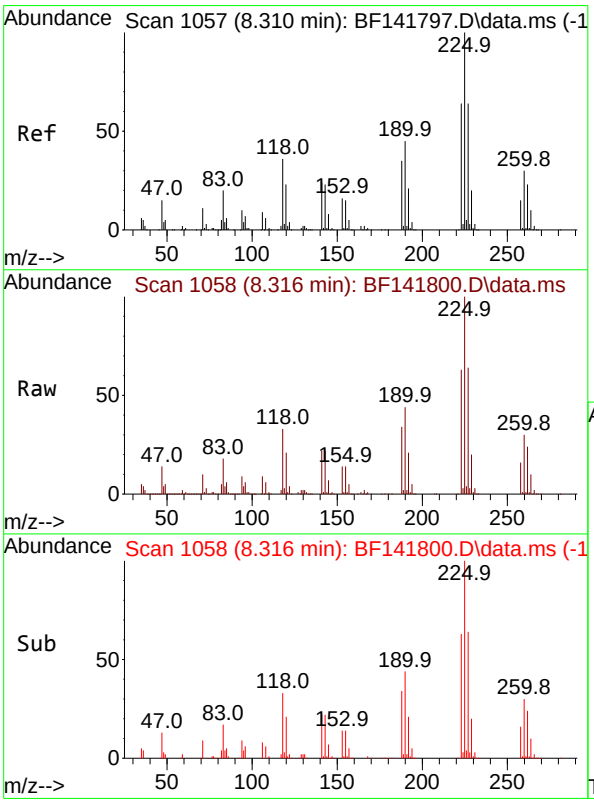
Ion	Ratio	Lower	Upper
127	100		
129	32.3	26.1	39.1
65	32.2	25.7	38.5
92	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

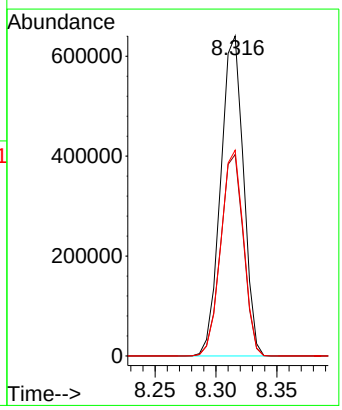
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

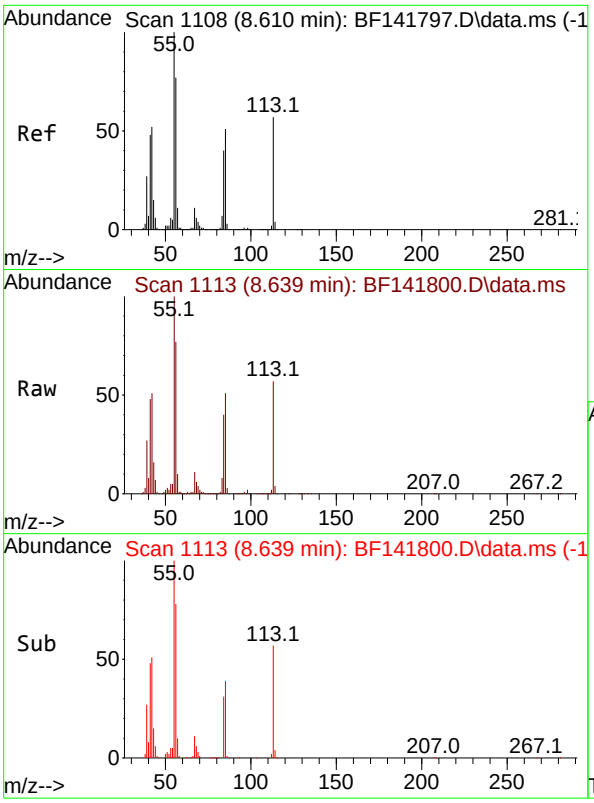


#34
Hexachlorobutadiene
Concen: 77.265 ng
RT: 8.316 min Scan# 1058
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

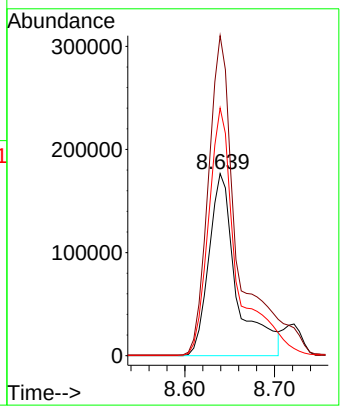




#35
Caprolactam
Concen: 78.359 ng
RT: 8.639 min Scan# 1
Delta R.T. 0.029 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:113 Resp: 38314

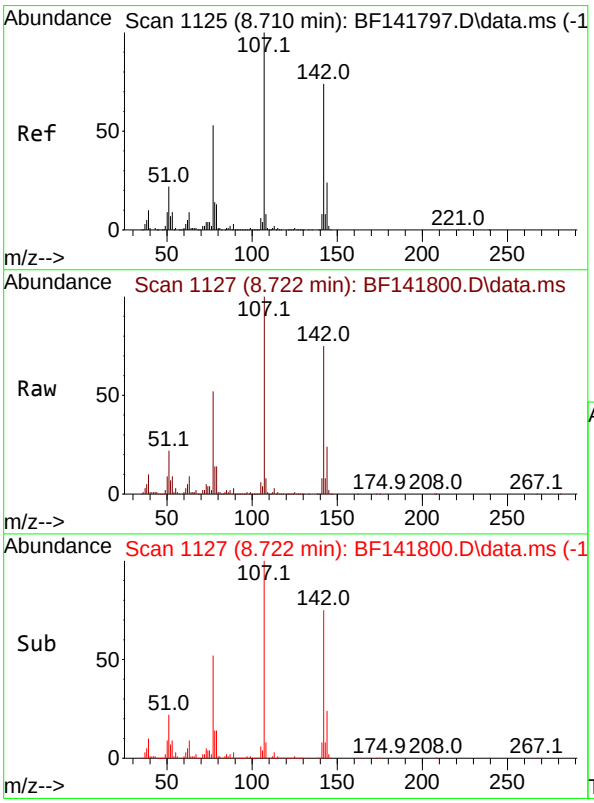
Ion	Ratio	Lower	Upper
113	100		
55	175.7	155.6	195.6
56	136.0	114.6	154.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

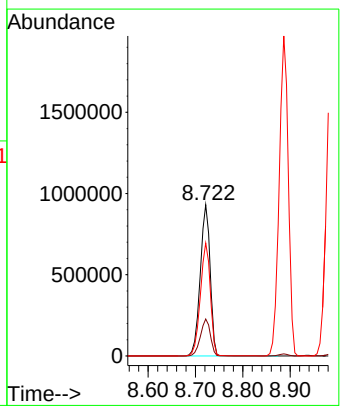
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

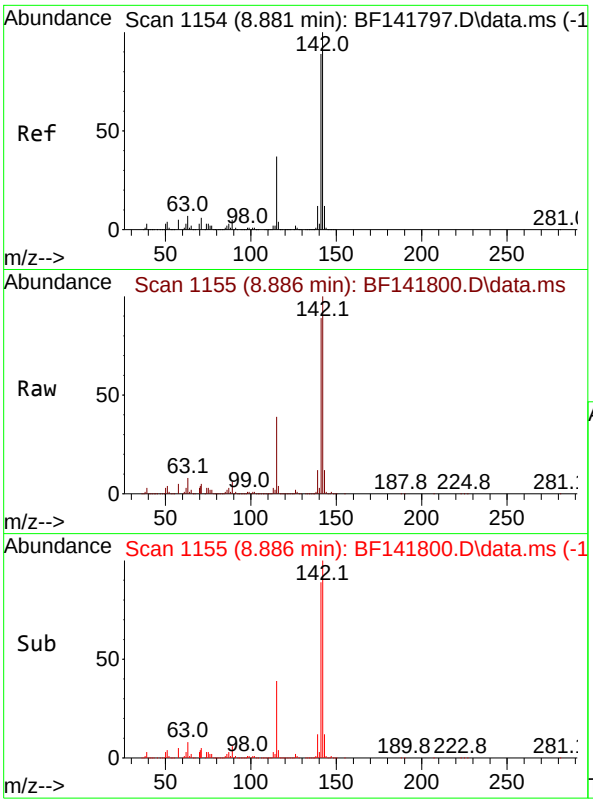


#36
4-Chloro-3-methylphenol
Concen: 76.431 ng
RT: 8.722 min Scan# 1127
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

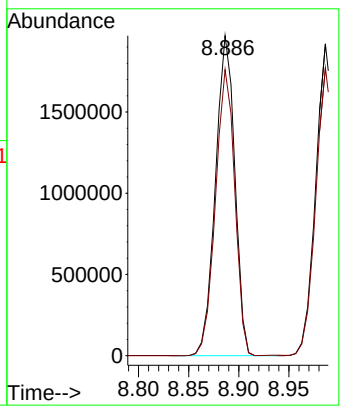




#37
2-Methylnaphthalene
Concen: 70.167 ng
RT: 8.886 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 263730

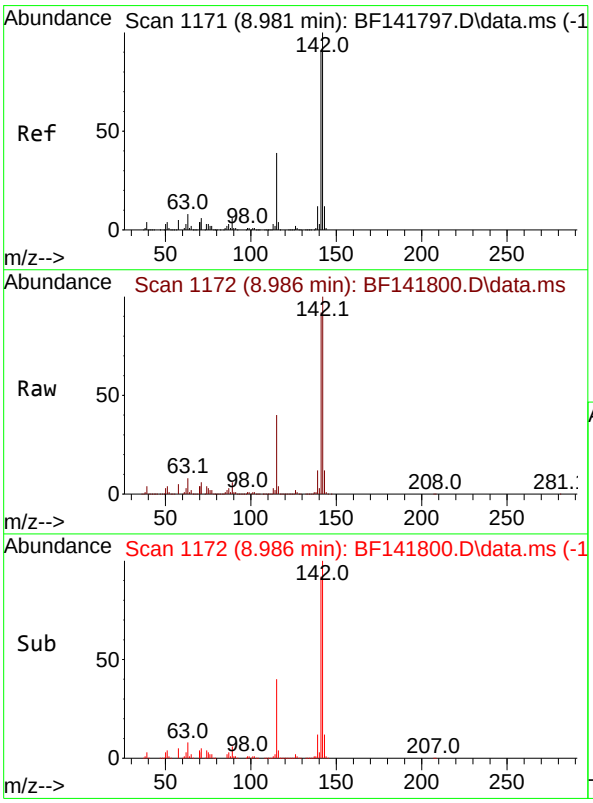
Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.1	106.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

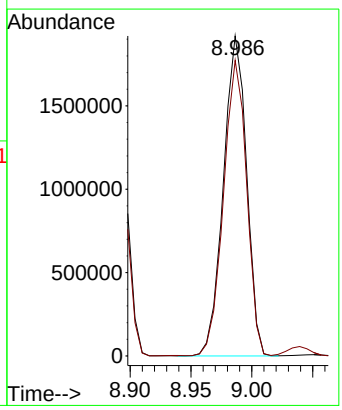
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

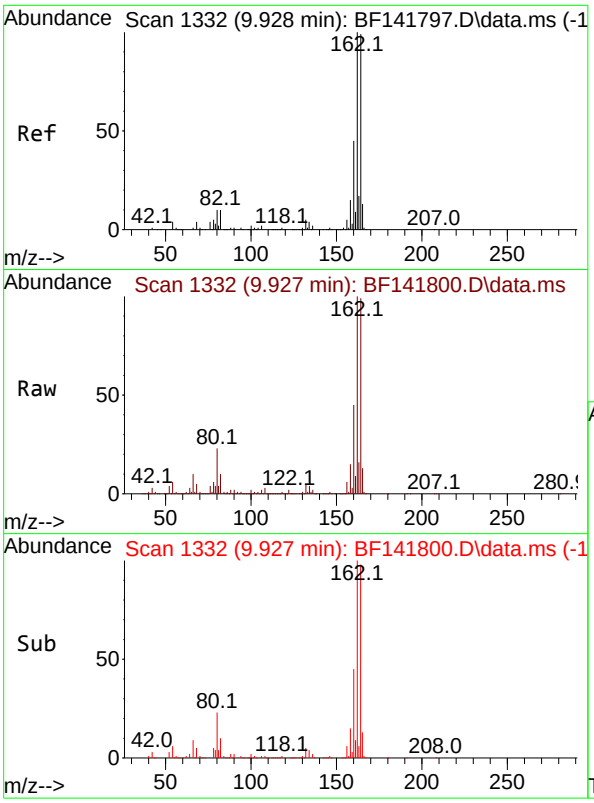


#38
1-Methylnaphthalene
Concen: 70.457 ng
RT: 8.986 min Scan# 1172
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:142 Resp: 2541019

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.1	109.7

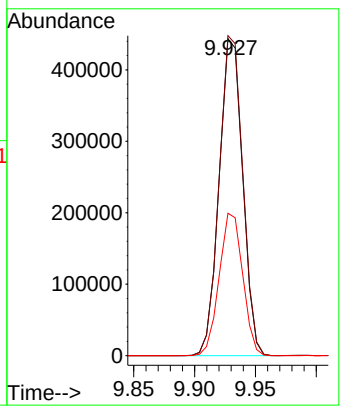




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:164 Resp: 59668

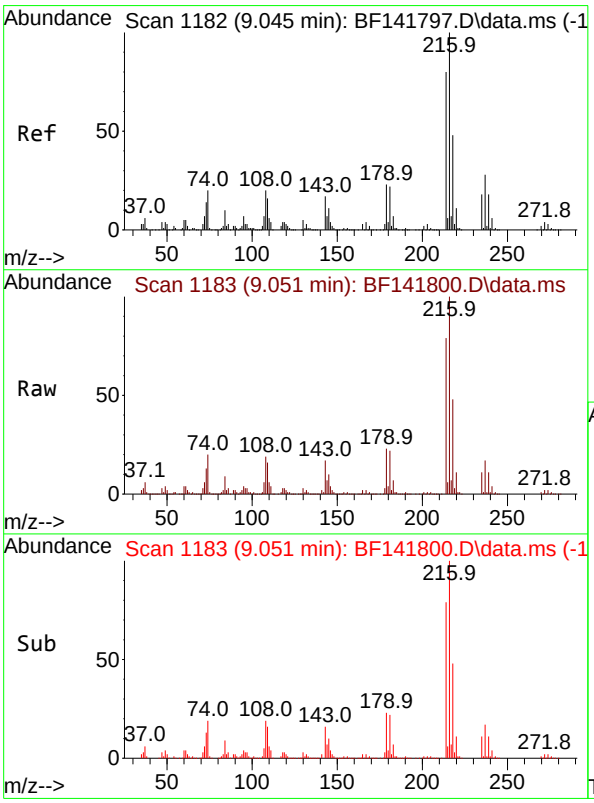
Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.6	120.8
160	44.9	36.3	54.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

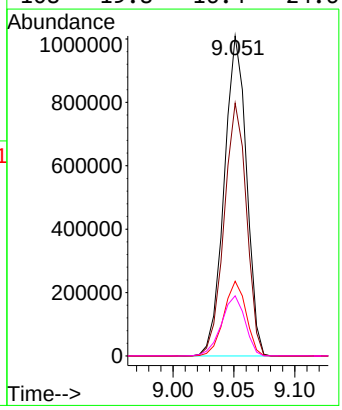
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

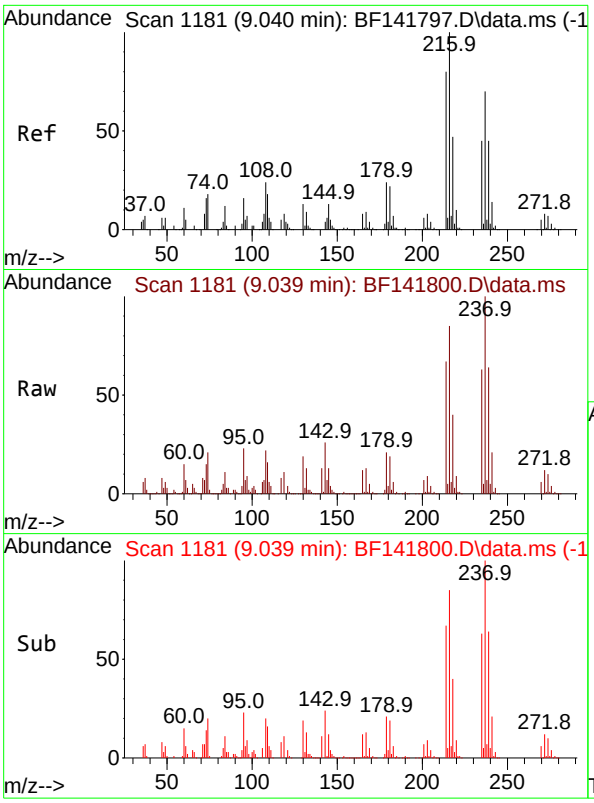


#40
1,2,4,5-Tetrachlorobenzene
Concen: 74.773 ng
RT: 9.051 min Scan# 1183
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

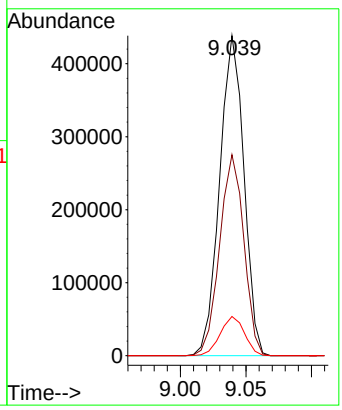




#41
Hexachlorocyclopentadiene
Concen: 78.461 ng
RT: 9.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:237 Resp: 56426

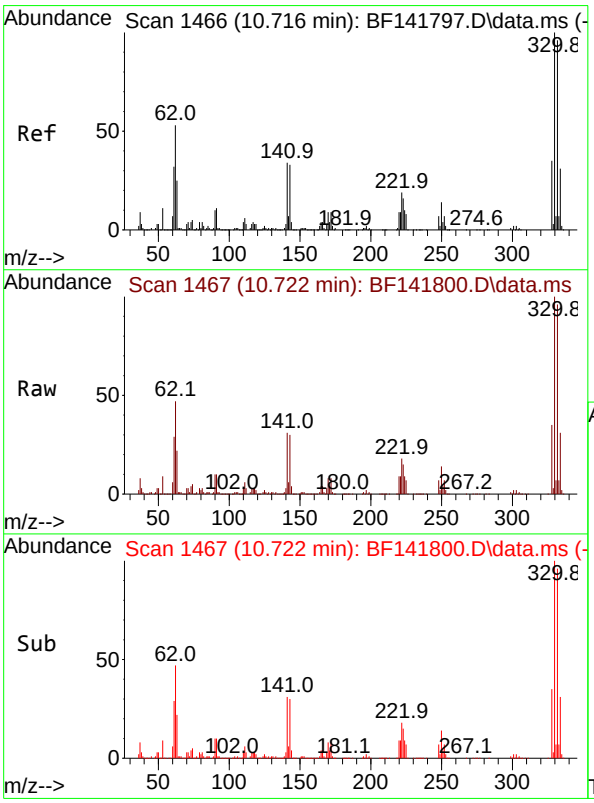
Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.3	83.3
272	12.3	0.0	31.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

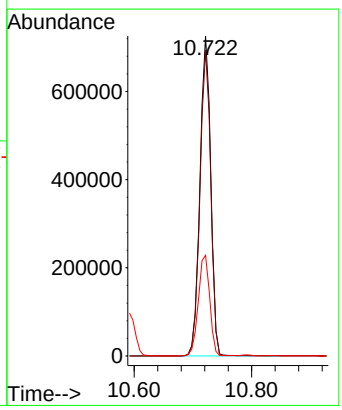
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

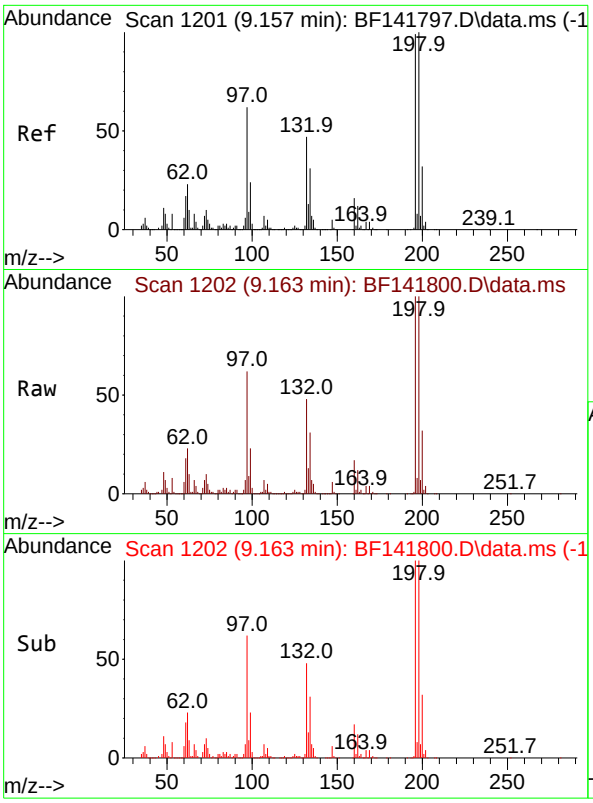


#42
2,4,6-Tribromophenol
Concen: 164.969 ng
RT: 10.722 min Scan# 1467
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

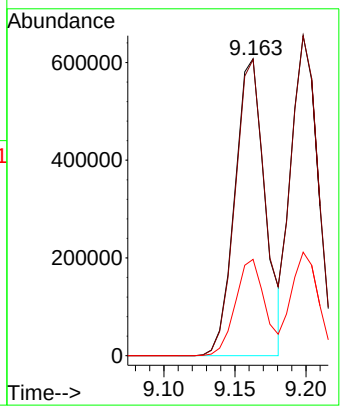




#43
2,4,6-Trichlorophenol
Concen: 80.742 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:196 Resp: 89879

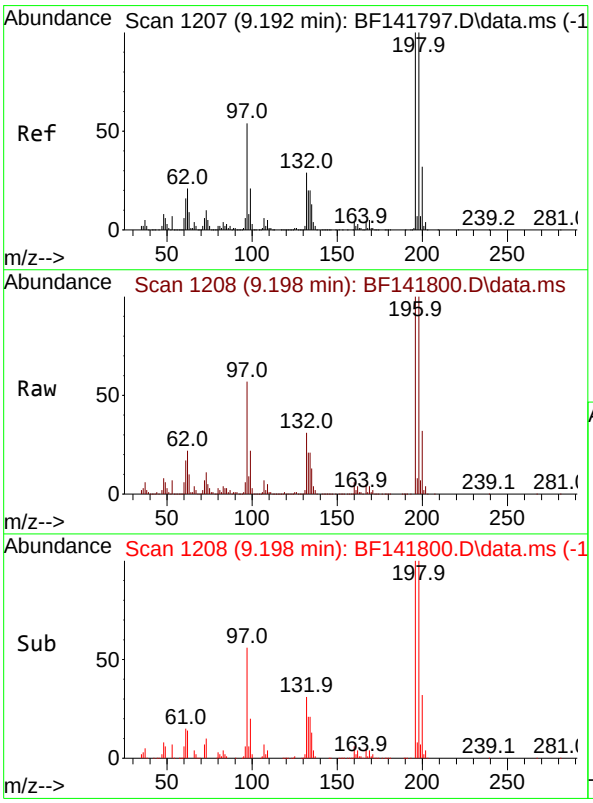
Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.4	120.6
200	32.4	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

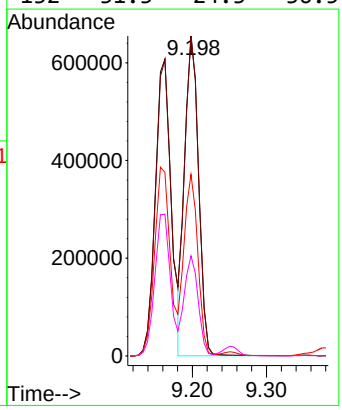
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

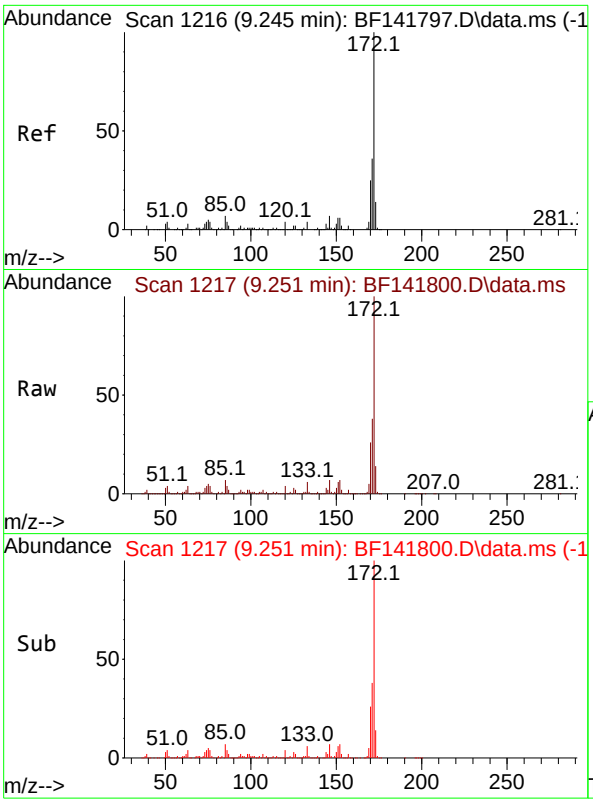


#44
2,4,5-Trichlorophenol
Concen: 77.984 ng
RT: 9.198 min Scan# 1208
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

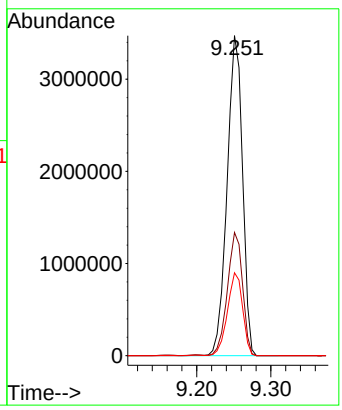




#45
2-Fluorobiphenyl
Concen: 134.541 ng
RT: 9.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:172 Resp: 500660

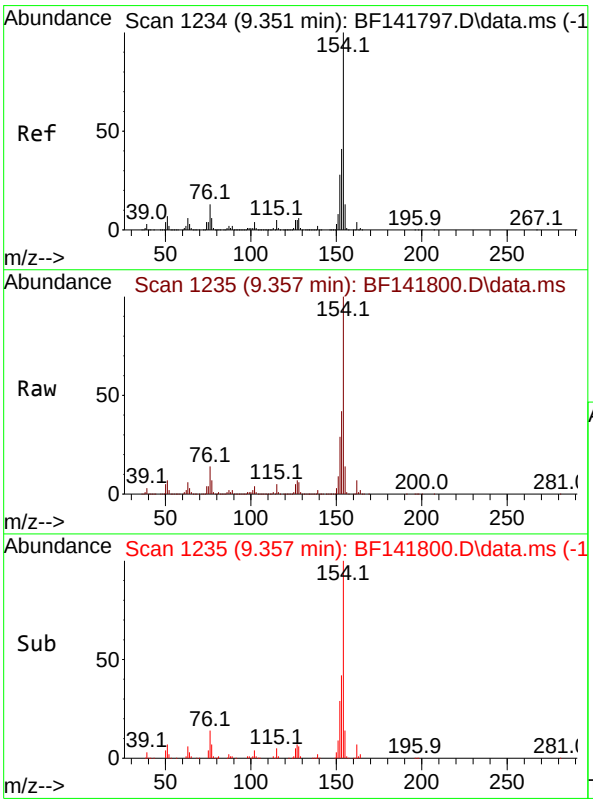
Ion	Ratio	Lower	Upper
172	100		
171	38.5	29.2	43.8
170	25.9	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

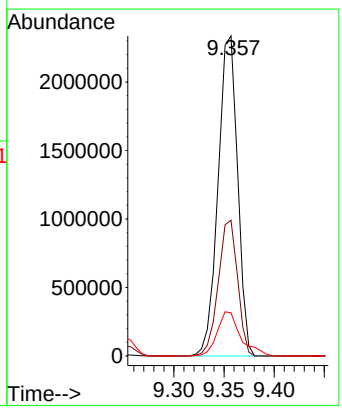
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

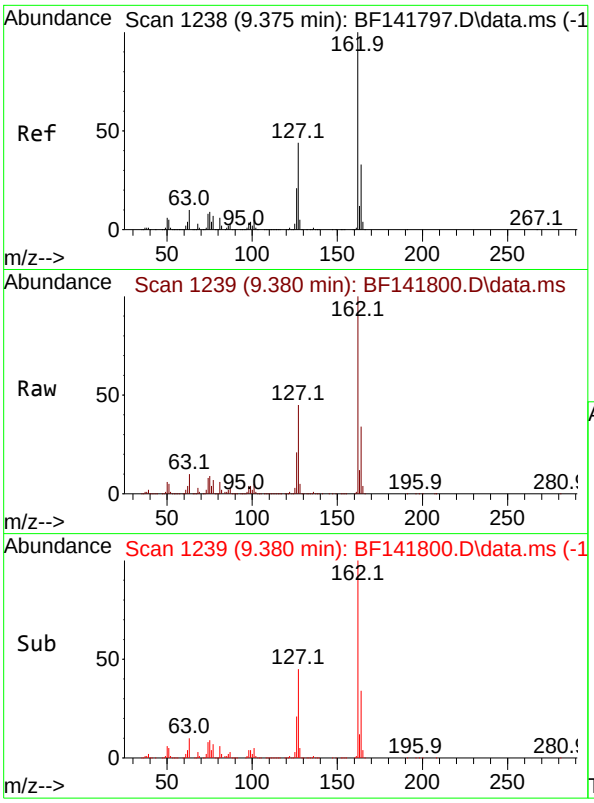


#46
1,1'-Biphenyl
Concen: 69.499 ng
RT: 9.357 min Scan# 1235
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

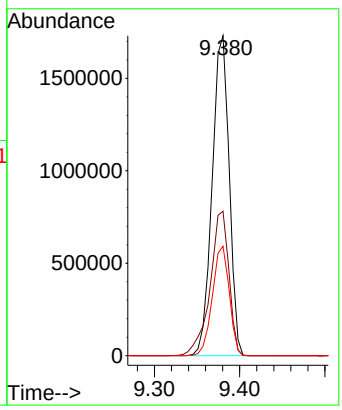




#47
2-Chloronaphthalene
Concen: 71.641 ng
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:162 Resp: 240146

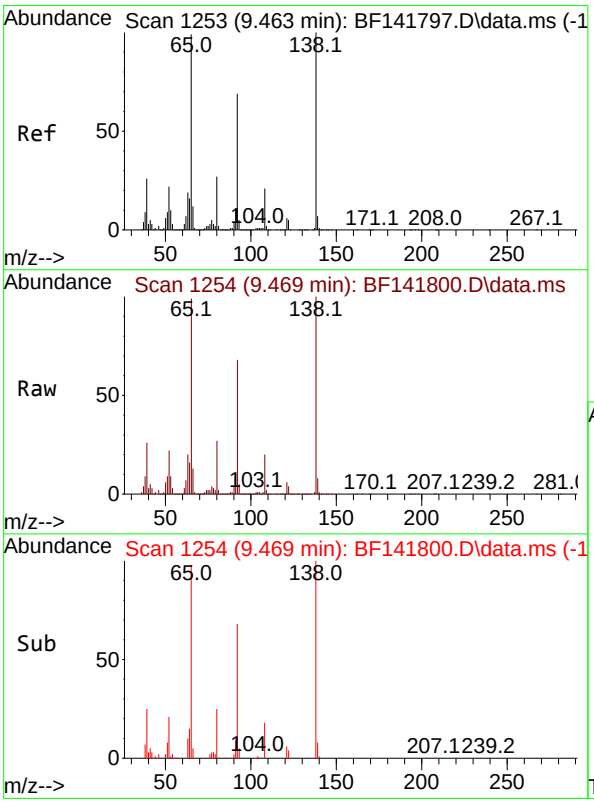
Ion	Ratio	Lower	Upper
162	100		
127	45.2	35.0	52.6
164	34.2	26.6	40.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

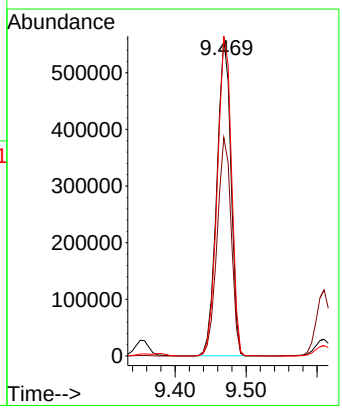
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

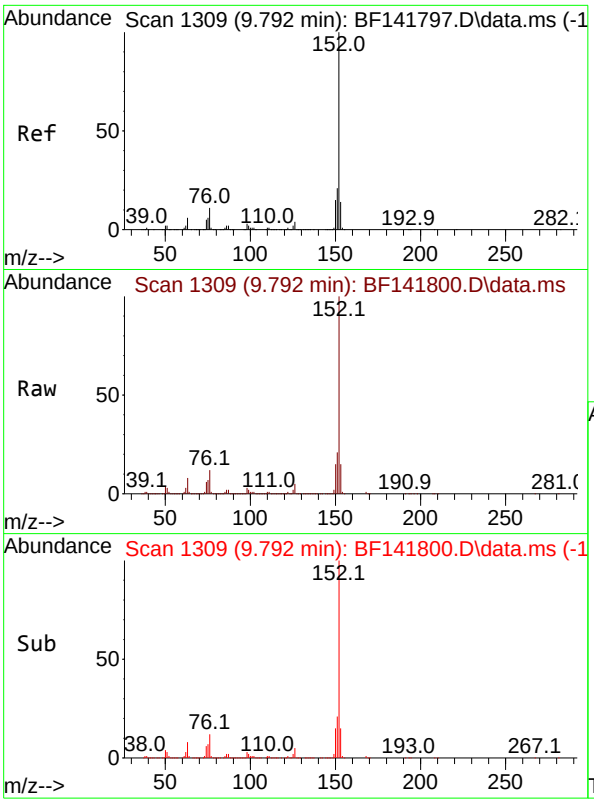


#48
2-Nitroaniline
Concen: 80.727 ng
RT: 9.469 min Scan# 1254
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

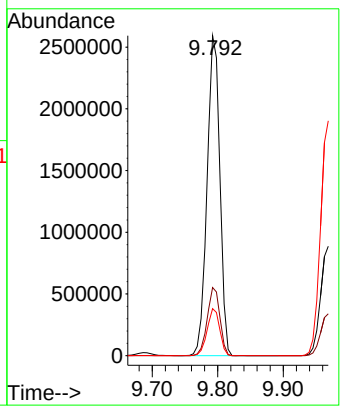




#49
Acenaphthylene
Concen: 69.880 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:152 Resp: 351207

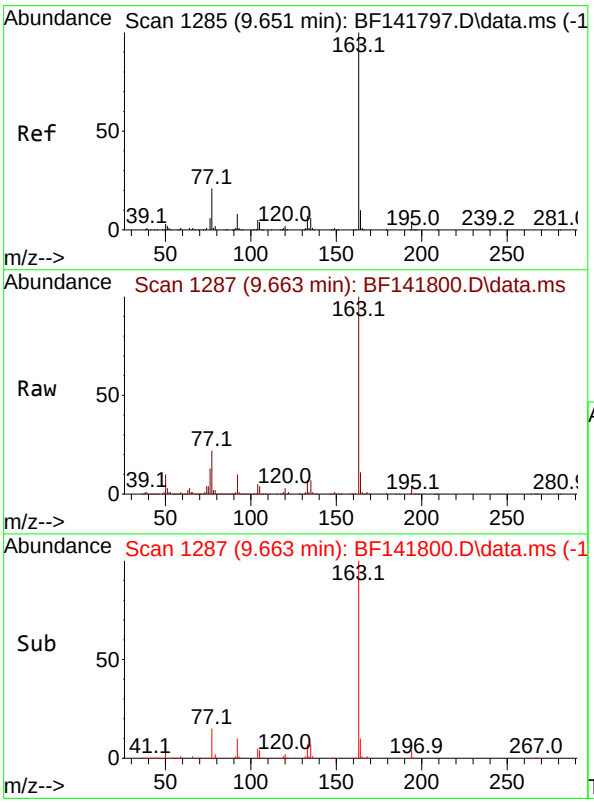
Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.6	24.8
153	14.7	11.2	16.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

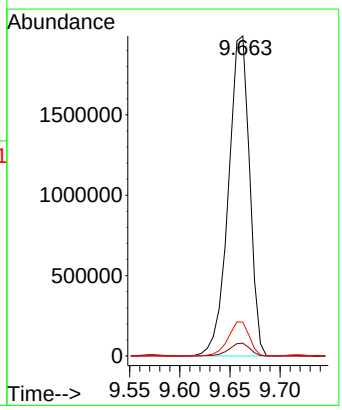
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

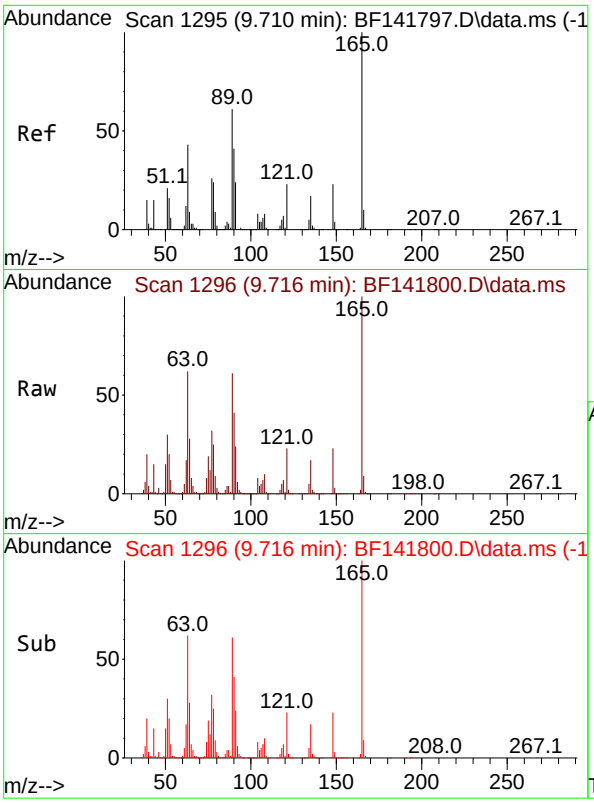


#50
Dimethylphthalate
Concen: 73.107 ng
RT: 9.663 min Scan# 1287
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

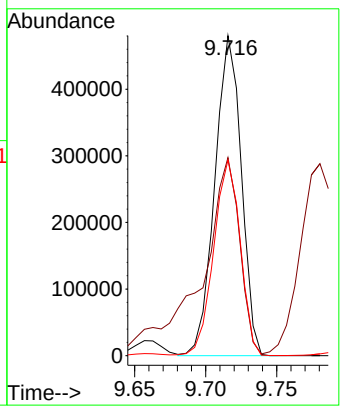
Tgt Ion:165 Resp: 62262

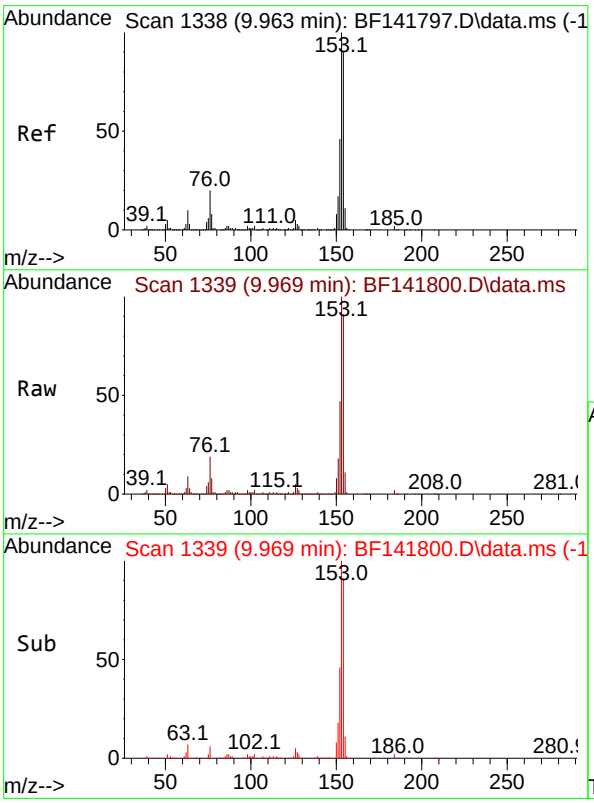
Ion	Ratio	Lower	Upper
165	100		
63	61.9	49.5	74.3
89	61.1	49.0	73.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

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

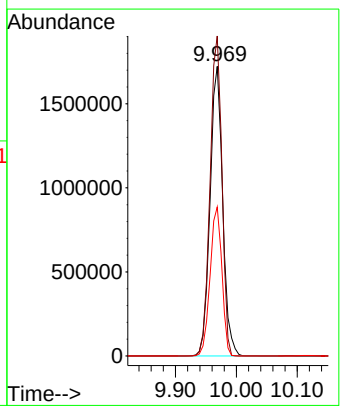


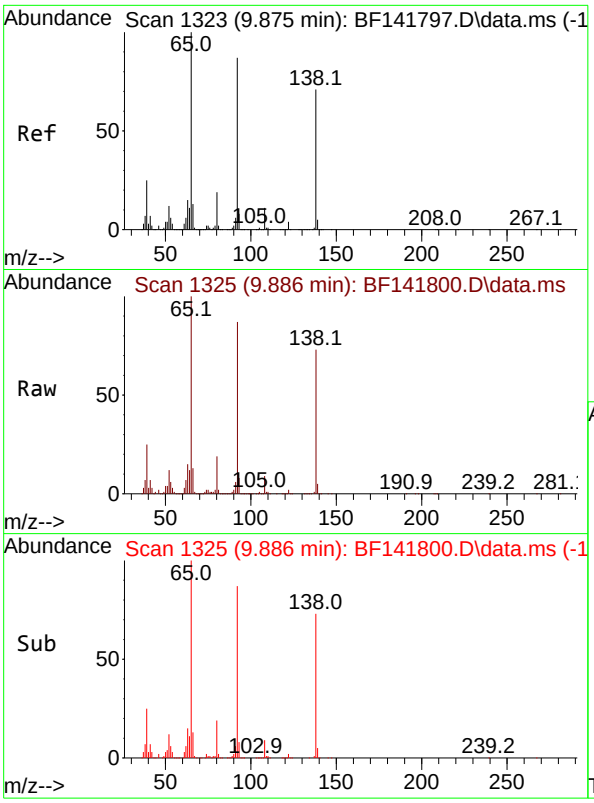


#52
Acenaphthene
Concen: 73.139 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

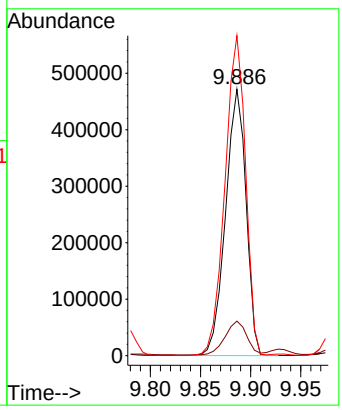
Tgt Ion:138 Resp: 66711

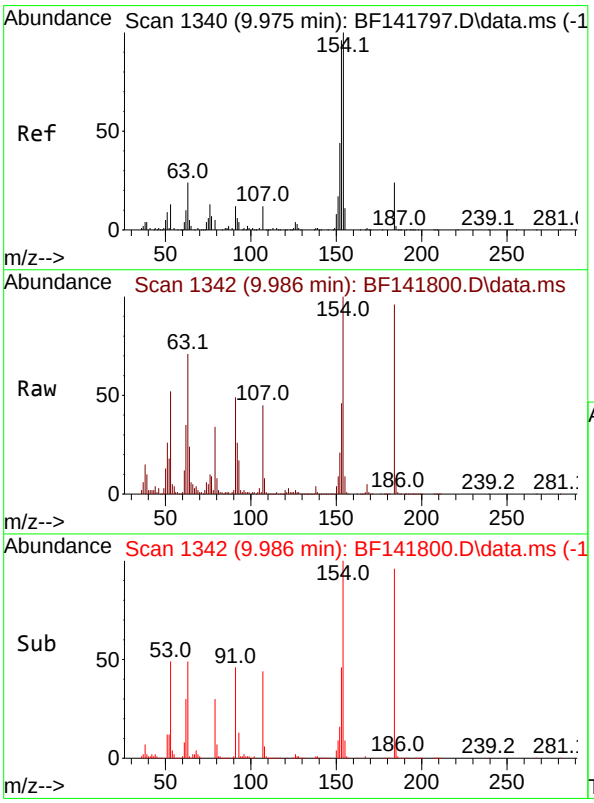
Ion	Ratio	Lower	Upper
138	100		
108	13.0	12.7	19.1
92	120.1	97.9	146.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

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

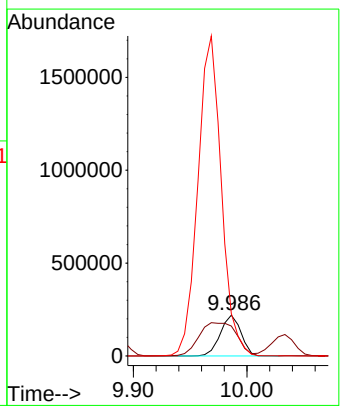


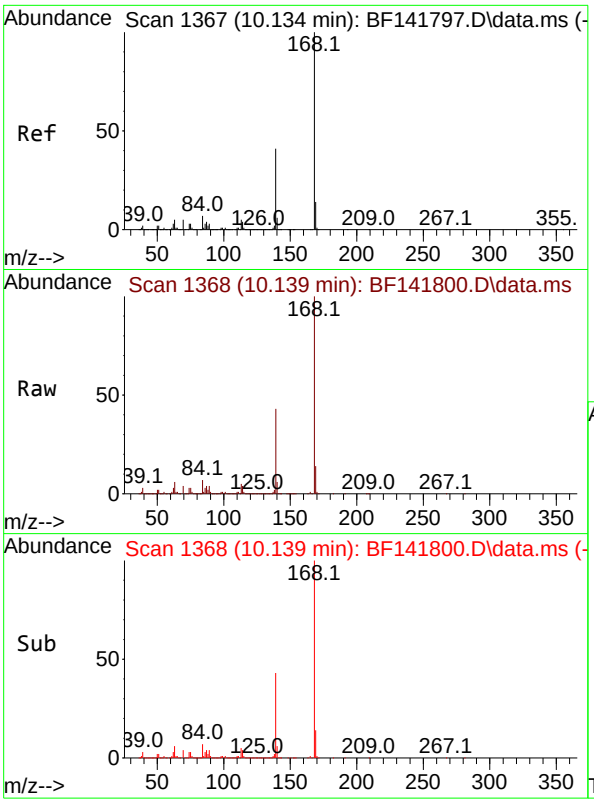


#54
2,4-Dinitrophenol
Concen: 79.409 ng
RT: 9.986 min Scan# 1342
Delta R.T. 0.011 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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#

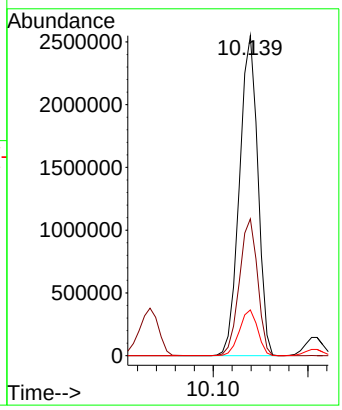




#55
Dibenzofuran
Concen: 69.448 ng
RT: 10.139 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:168 Resp: 342789

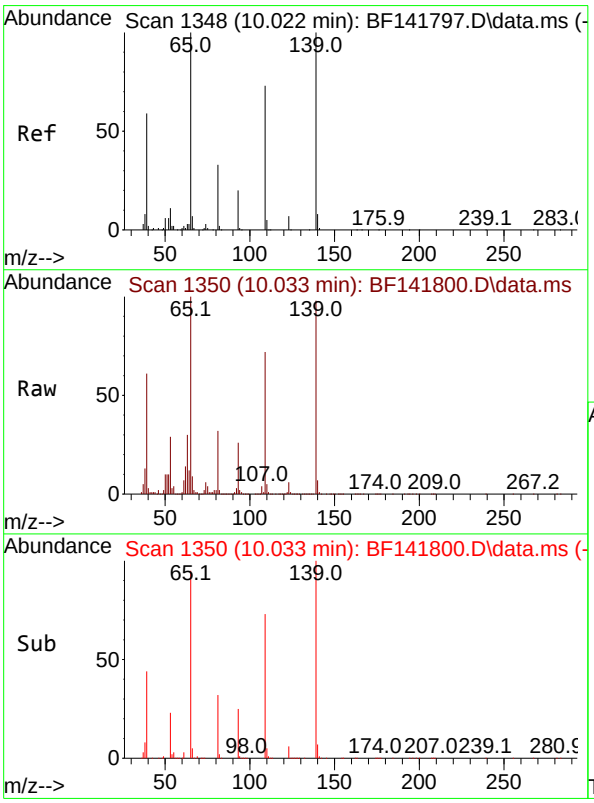
Ion	Ratio	Lower	Upper
168	100		
139	42.7	32.9	49.3
169	14.3	11.1	16.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

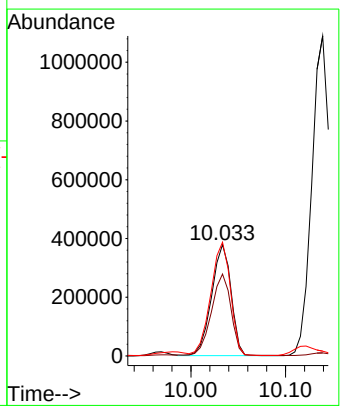
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

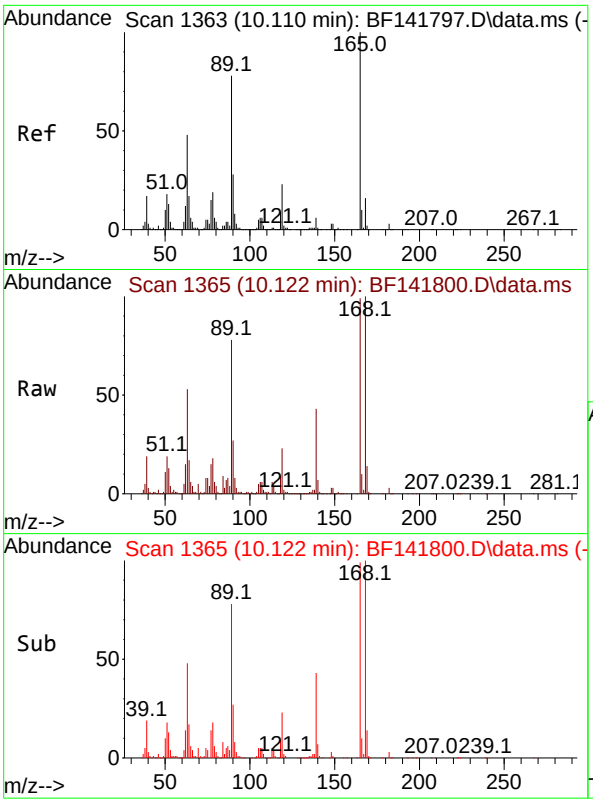


#56
4-Nitrophenol
Concen: 91.723 ng
RT: 10.033 min Scan# 1350
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

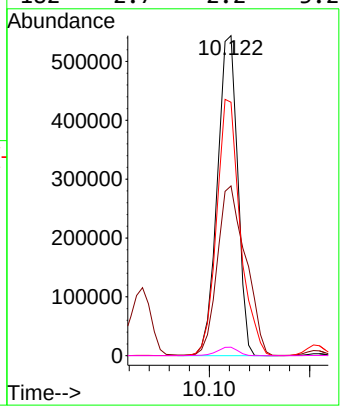




#57
2,4-Dinitrotoluene
Concen: 79.344 ng
RT: 10.122 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:165 Resp: 76401

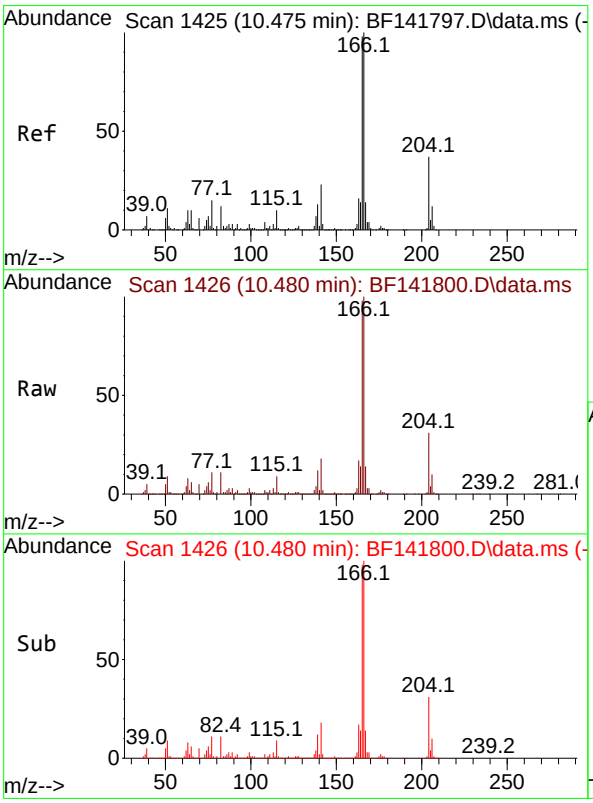
Ion	Ratio	Lower	Upper
165	100		
63	53.1	38.8	58.2
89	79.2	62.6	94.0
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

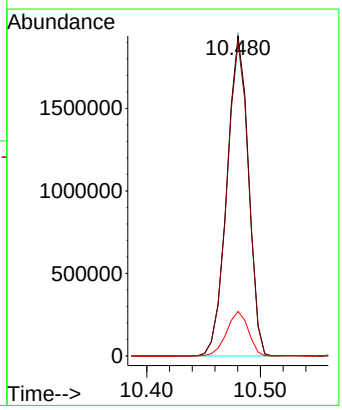
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

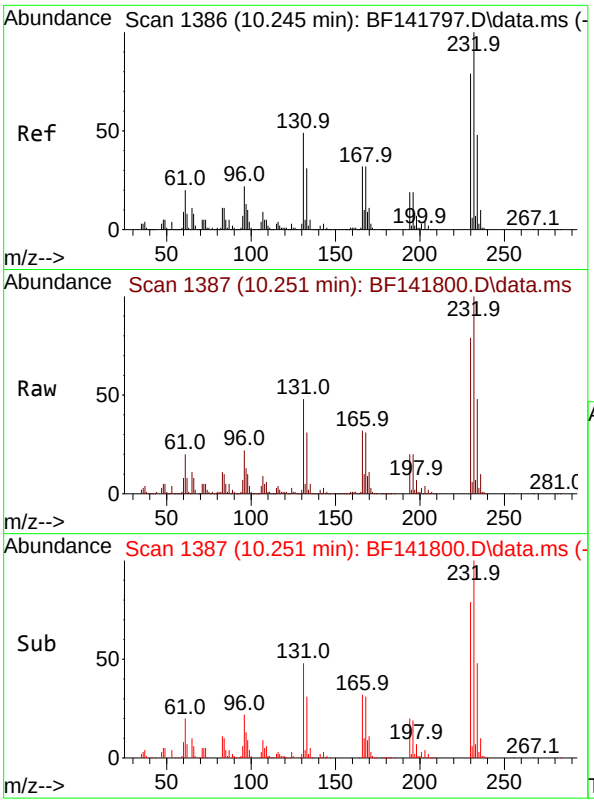


#58
Fluorene
Concen: 69.170 ng
RT: 10.480 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

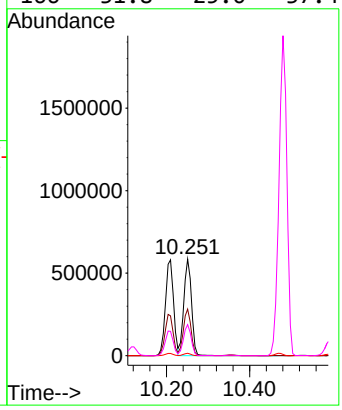




#59
2,3,4,6-Tetrachlorophenol
Concen: 78.537 ng
RT: 10.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:232 Resp: 75291

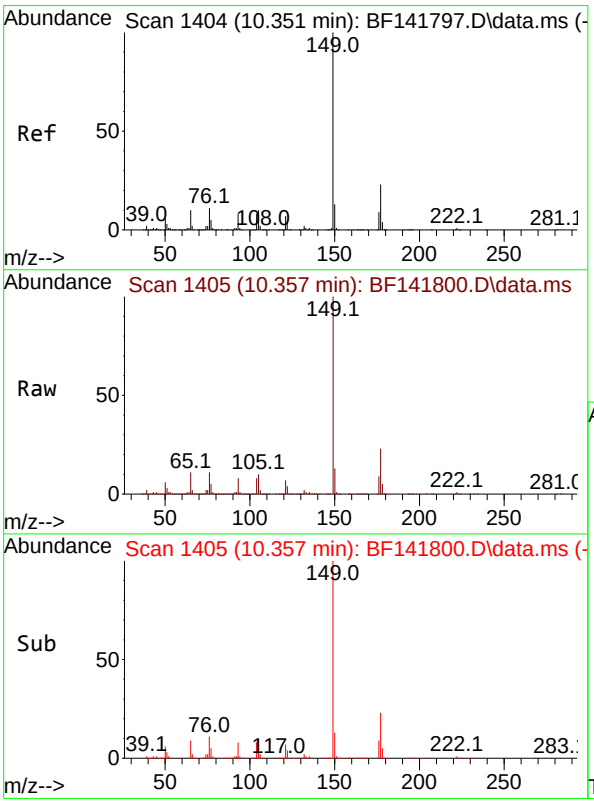
Ion	Ratio	Lower	Upper
232	100		
131	47.5	37.8	56.8
130	2.4	2.0	3.0
166	31.8	25.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

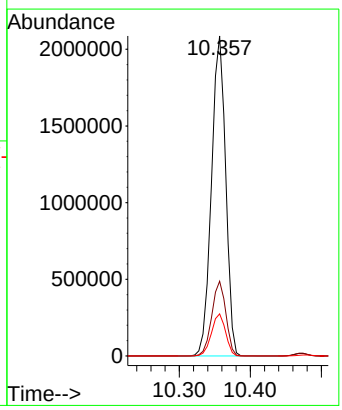
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

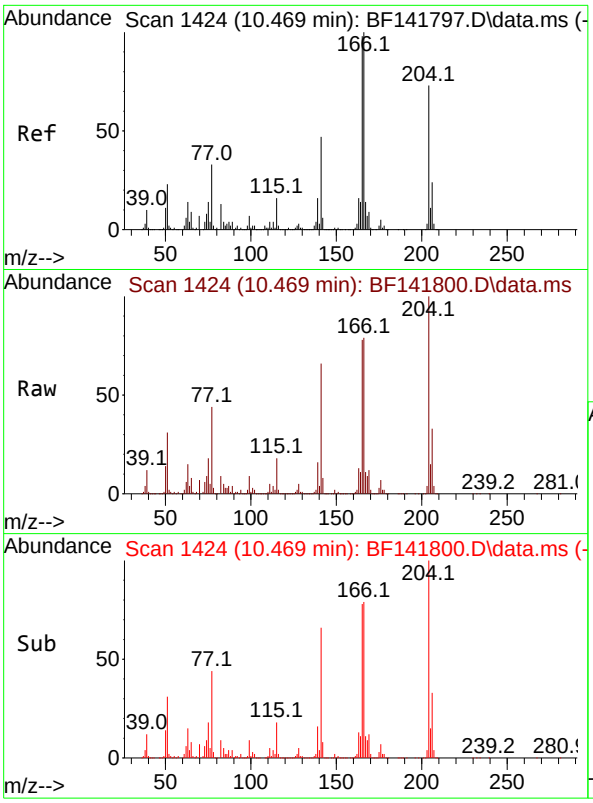


#60
Diethylphthalate
Concen: 72.232 ng
RT: 10.357 min Scan# 1405
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

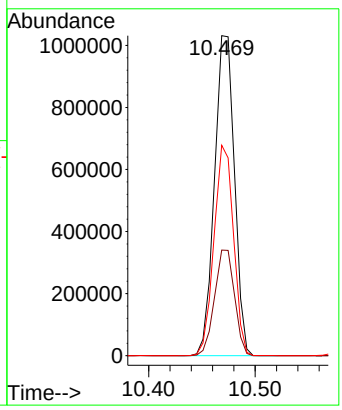
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

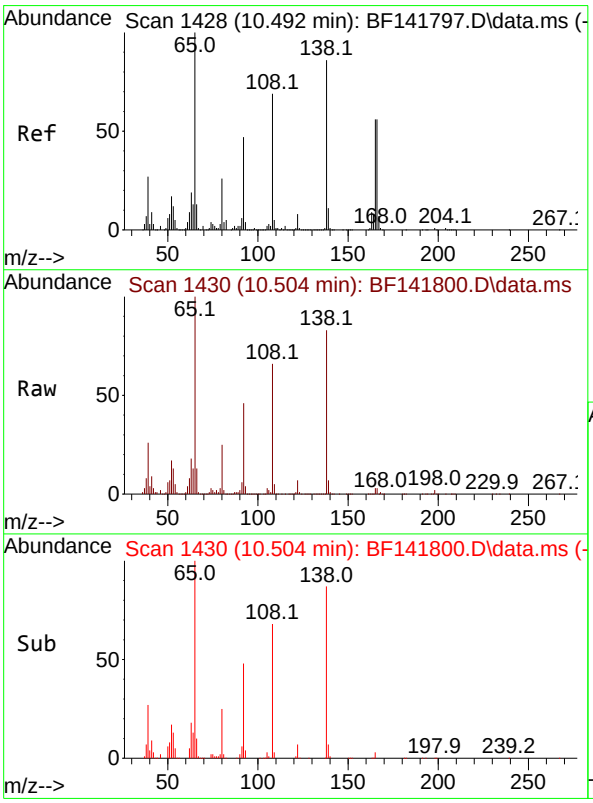
Tgt Ion:204 Resp: 134144

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

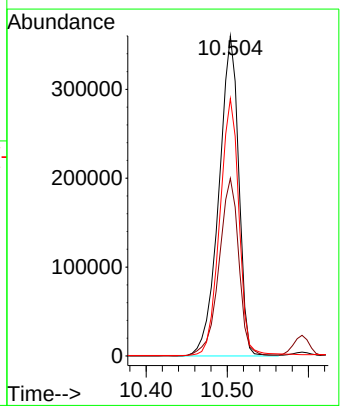


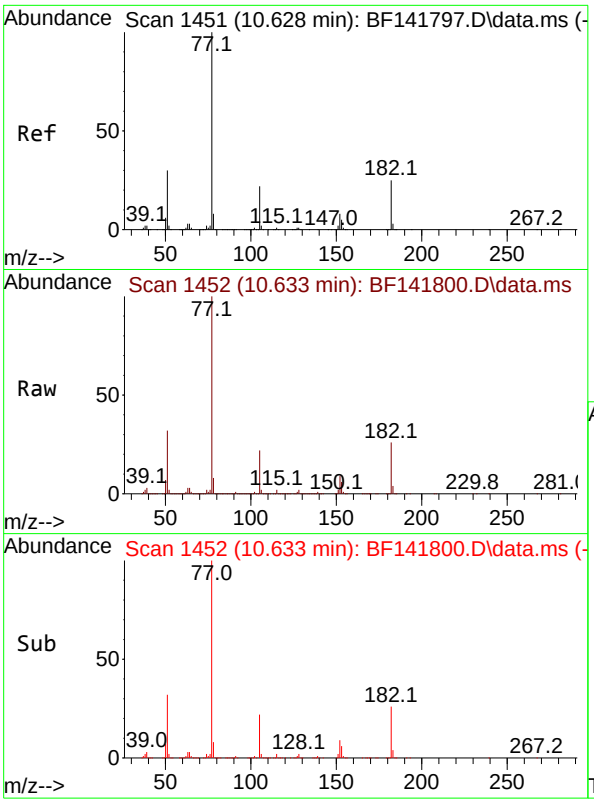


#62
4-Nitroaniline
Concen: 89.663 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

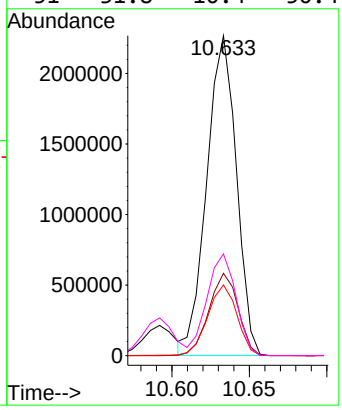




#63
Azobenzene
Concen: 71.441 ng
RT: 10.633 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion: 77 Resp: 301318

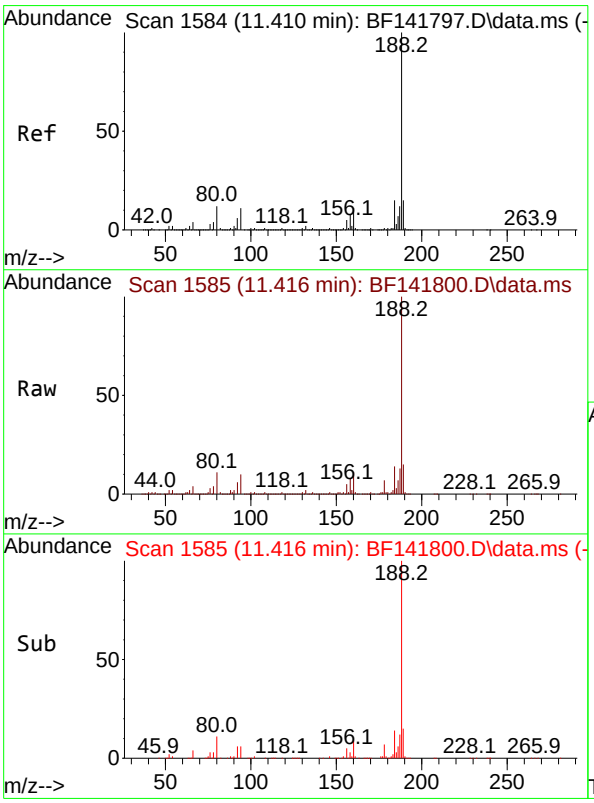
Ion	Ratio	Lower	Upper
77	100		
182	25.7	4.2	44.2
105	22.1	1.5	41.5
51	31.8	10.4	50.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

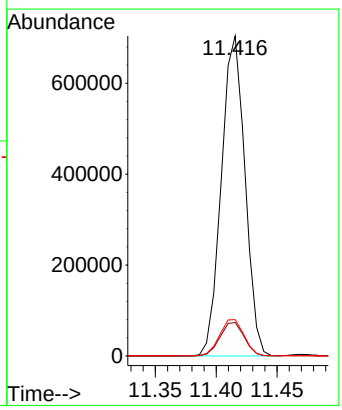
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

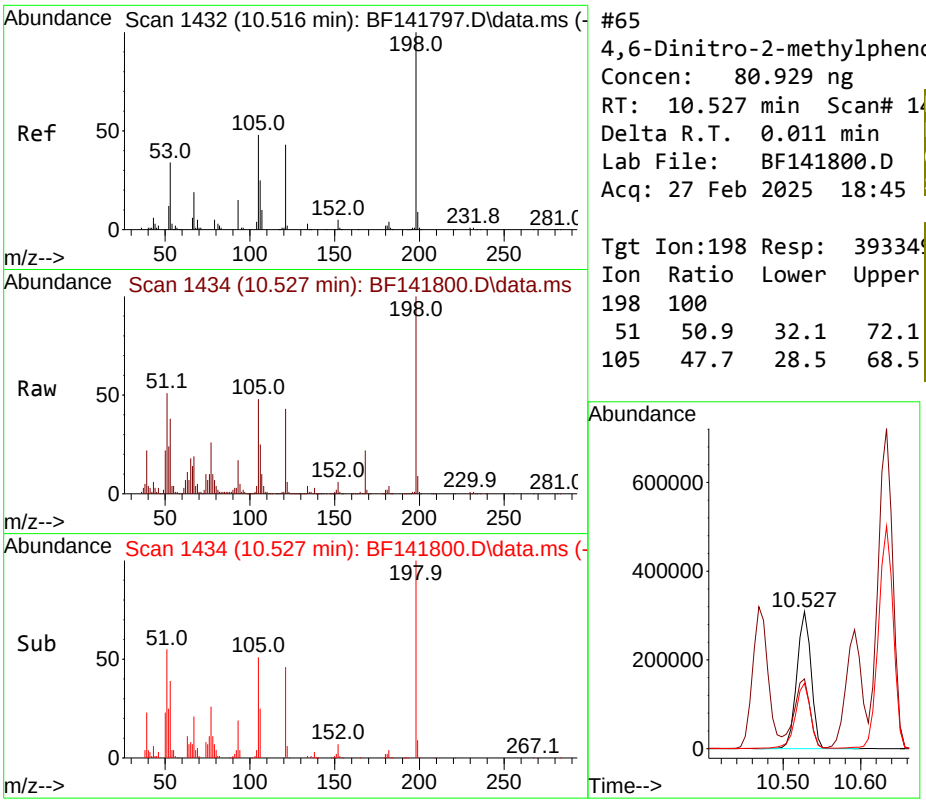


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

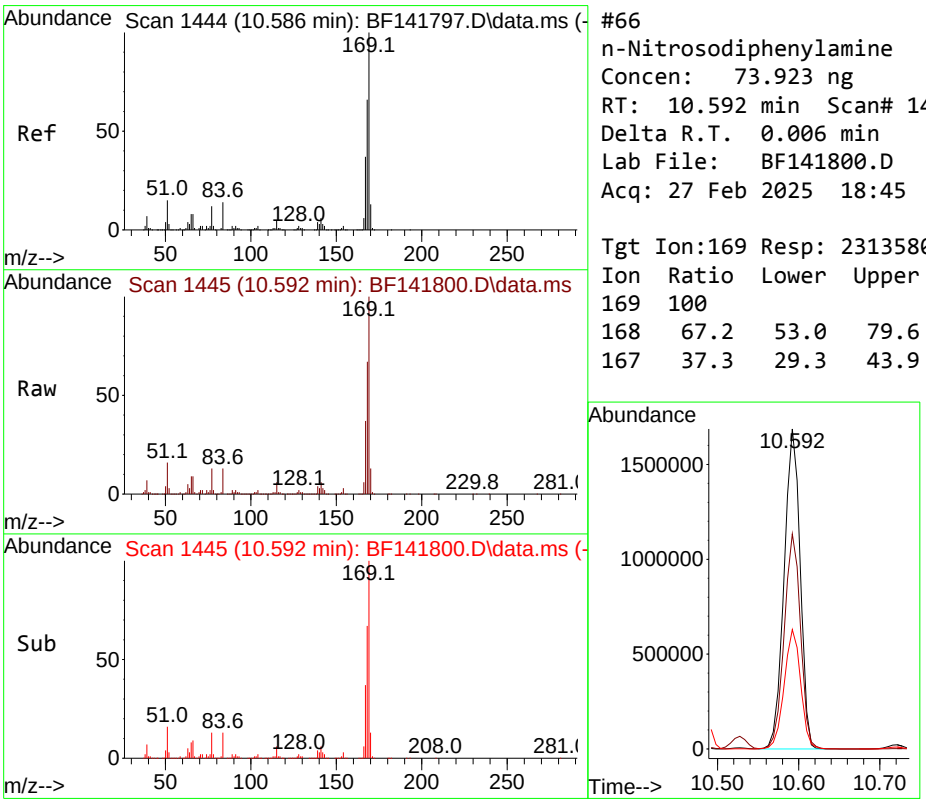
Tgt Ion:198 Resp: 39334

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

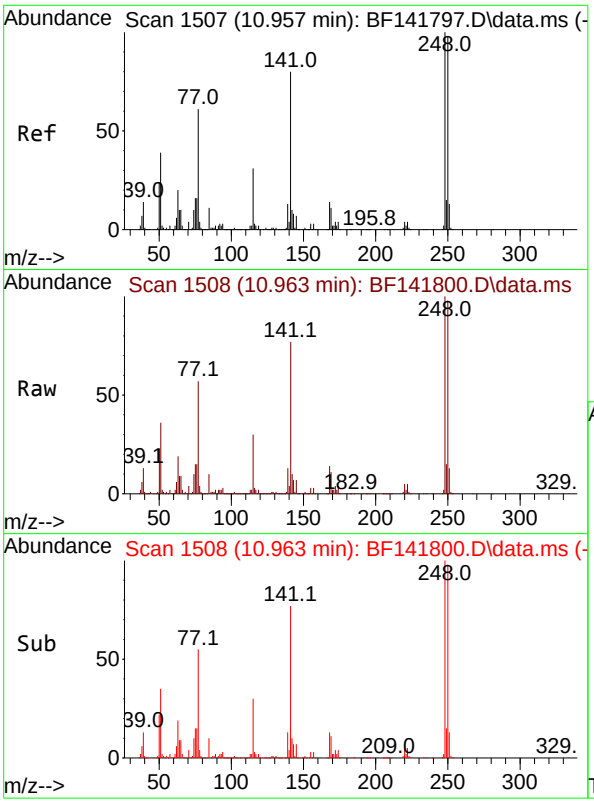
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#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

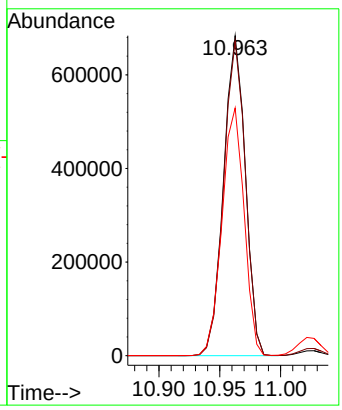
Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.0	79.6
167	37.3	29.3	43.9



#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

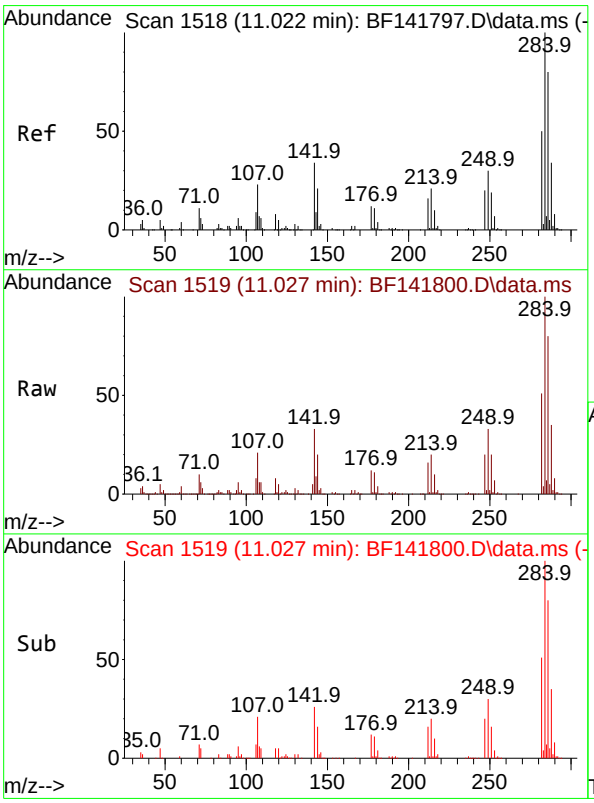
Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.1	117.1
141	77.4	64.3	96.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

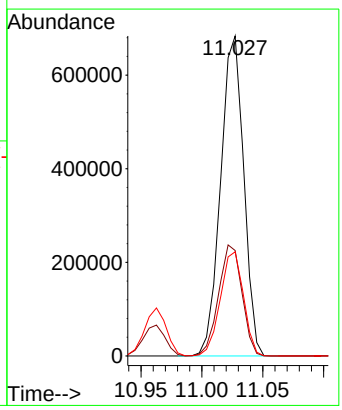
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

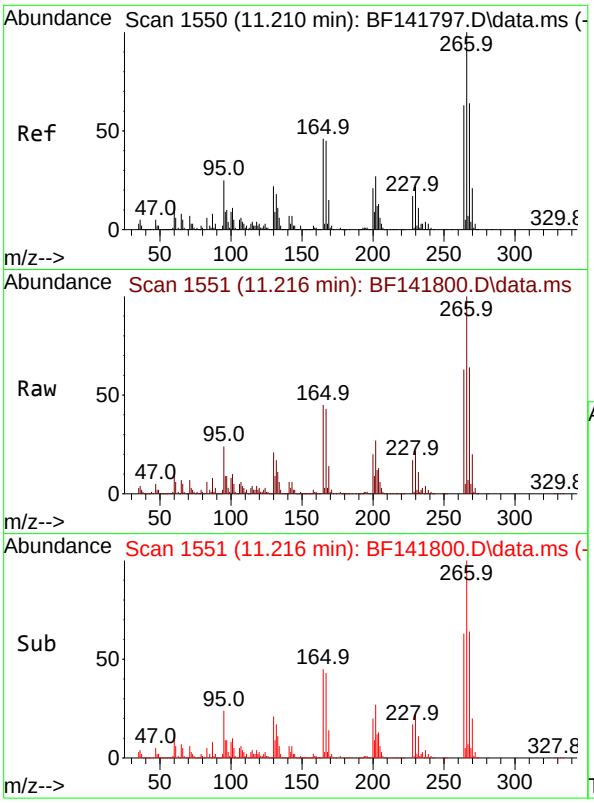


#68
Hexachlorobenzene
Concen: 76.782 ng
RT: 11.027 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

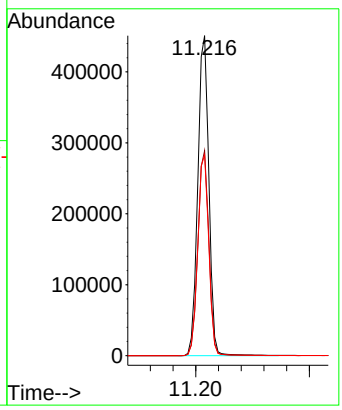




#70
Pentachlorophenol
Concen: 81.849 ng
RT: 11.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:266 Resp: 61026

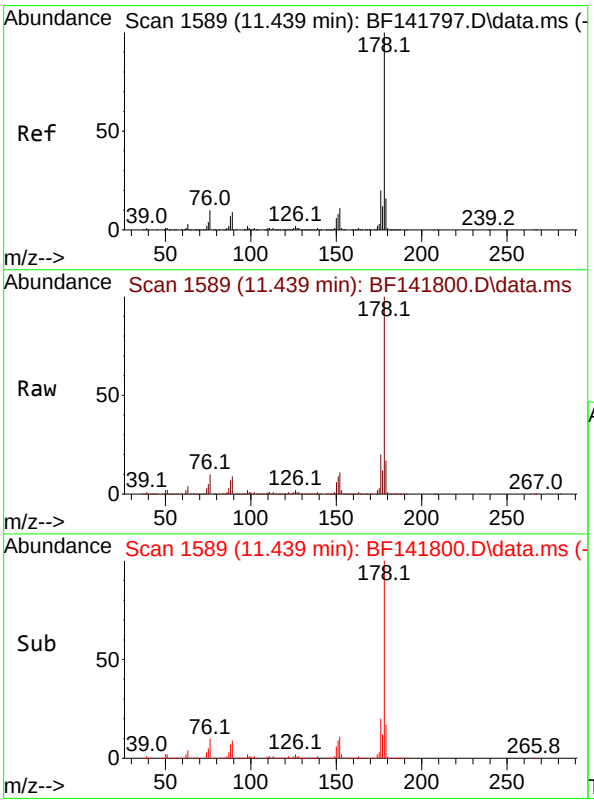
Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.9	76.3
264	62.8	50.2	75.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

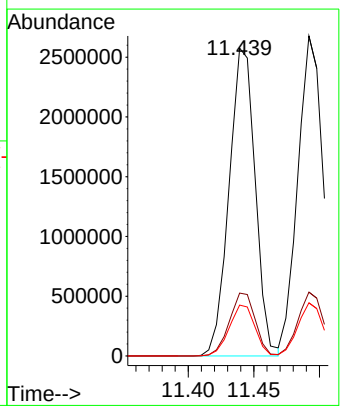
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

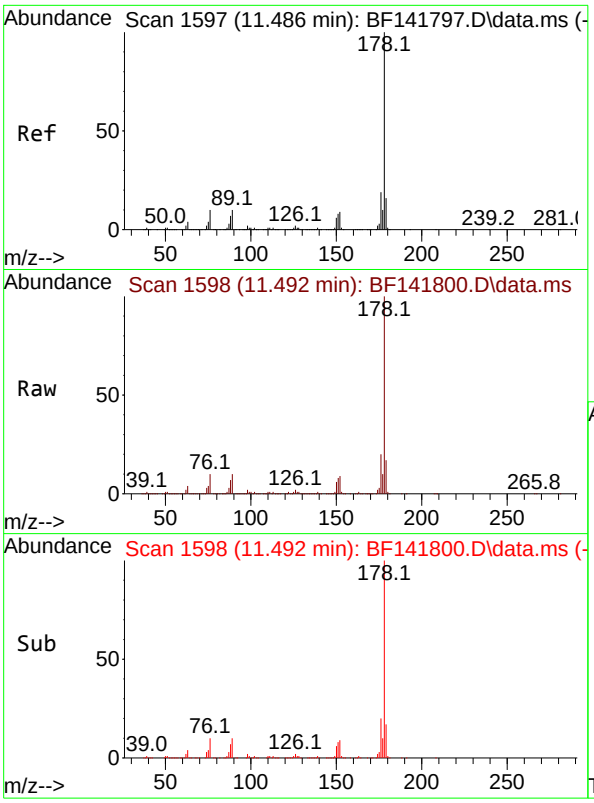


#71
Phenanthrene
Concen: 70.307 ng
RT: 11.439 min Scan# 1589
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

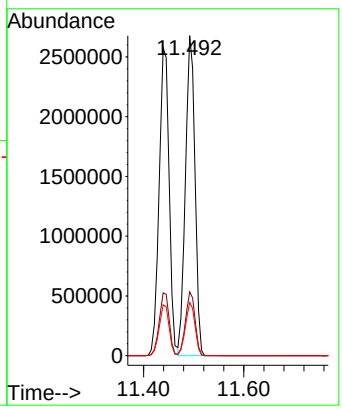




#72
Anthracene
Concen: 69.487 ng
RT: 11.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:178 Resp: 355048

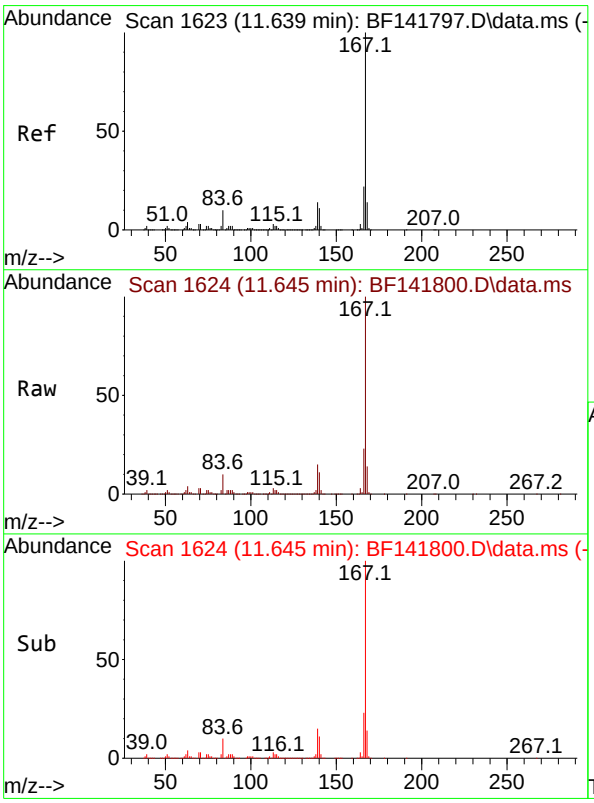
Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.4	23.0
179	16.6	12.8	19.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

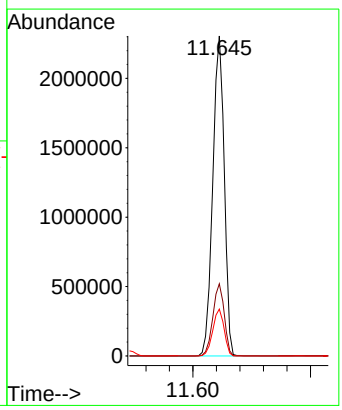
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

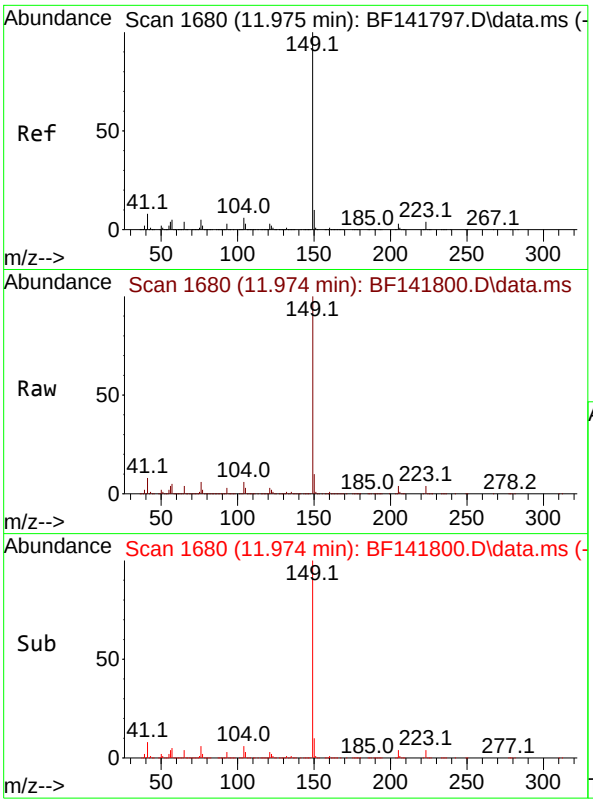


#73
Carbazole
Concen: 69.380 ng
RT: 11.645 min Scan# 1624
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

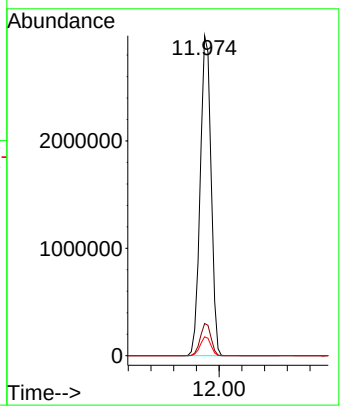




#74
Di-n-butylphthalate
Concen: 68.971 ng
RT: 11.974 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 394481

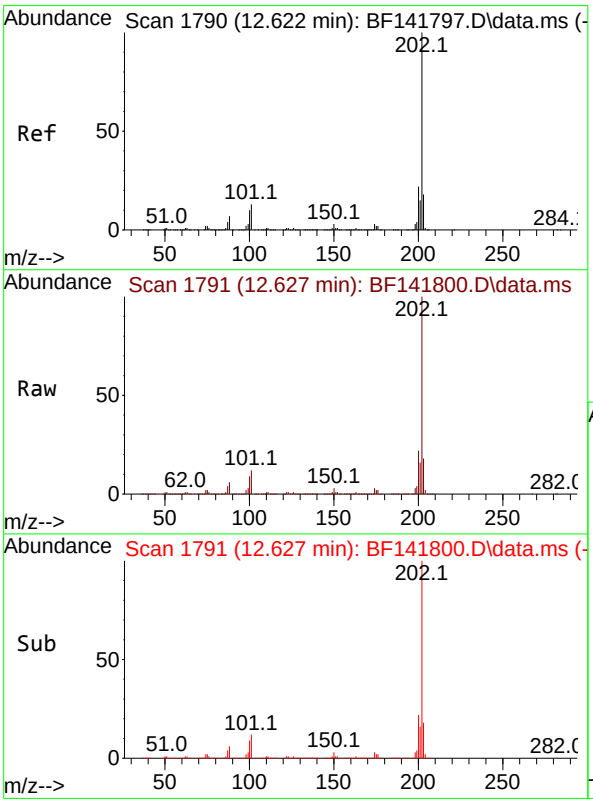
Ion	Ratio	Lower	Upper
149	100		
150	10.1	7.7	11.5
104	5.9	4.4	6.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

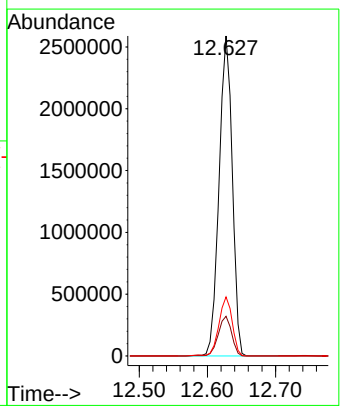
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

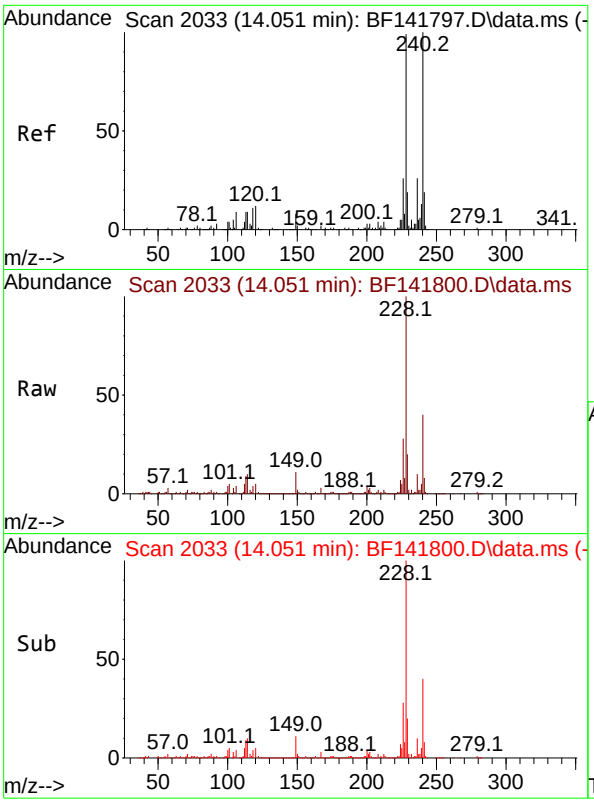


#75
Fluoranthene
Concen: 66.922 ng
RT: 12.627 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

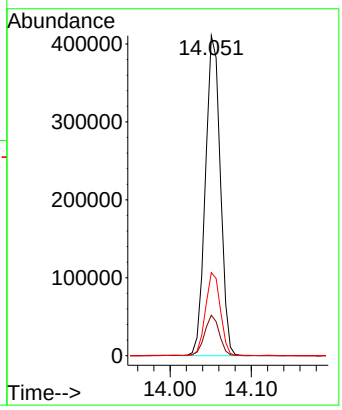




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:240 Resp: 52320

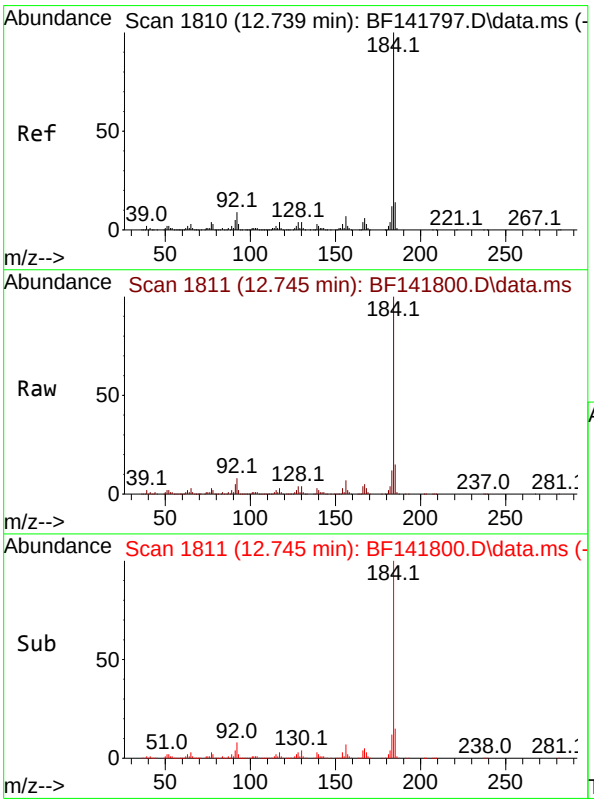
Ion	Ratio	Lower	Upper
240	100		
120	12.6	9.7	14.5
236	26.0	21.0	31.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

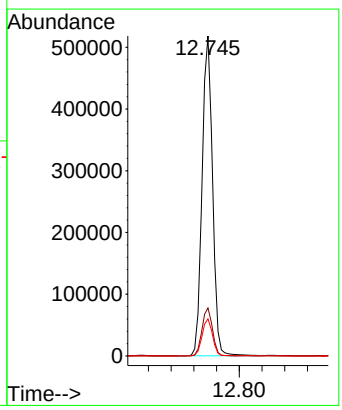
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

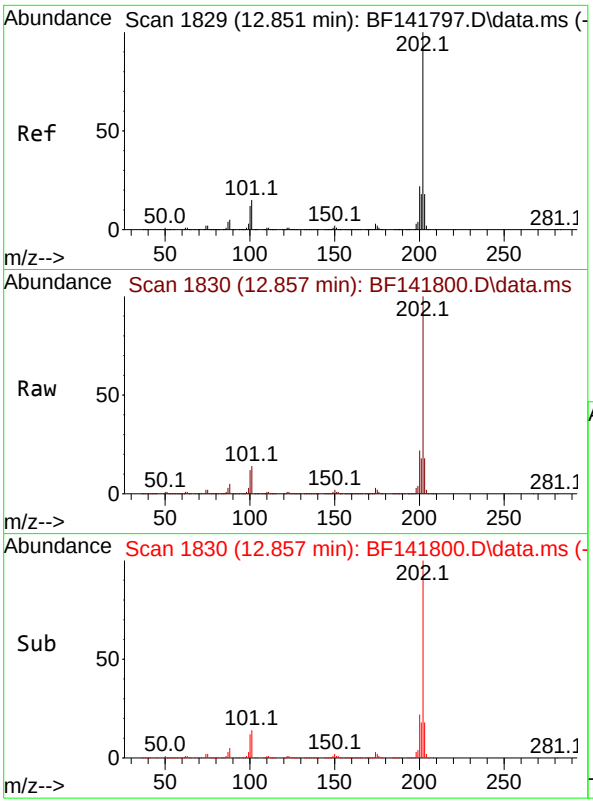


#77
Benzidine
Concen: 100.283 ng
RT: 12.745 min Scan# 1811
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

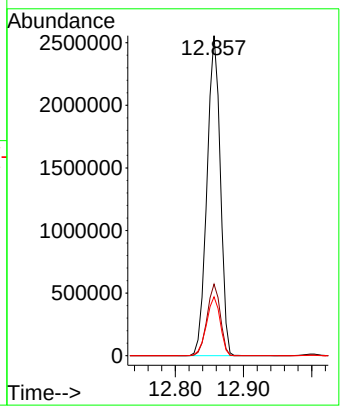




#78
Pyrene
Concen: 76.502 ng
RT: 12.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:202 Resp: 346603

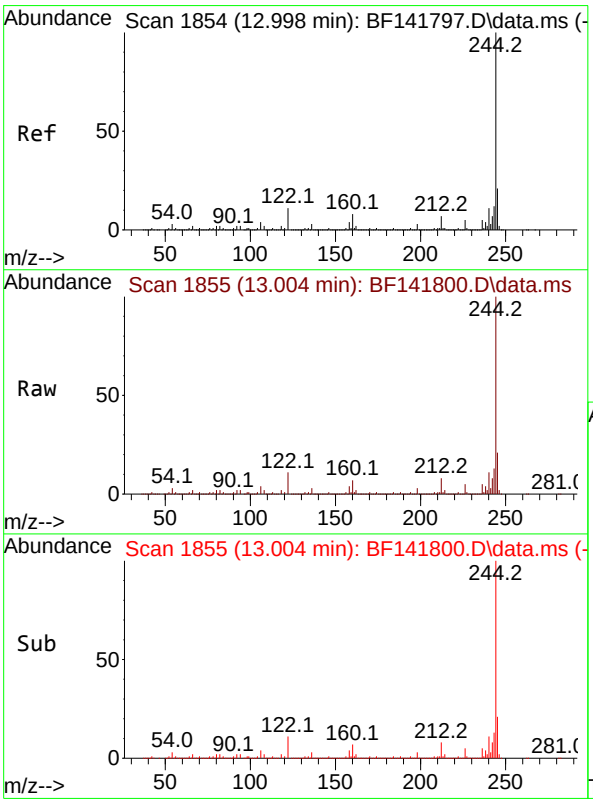
Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.4	26.0
203	18.4	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

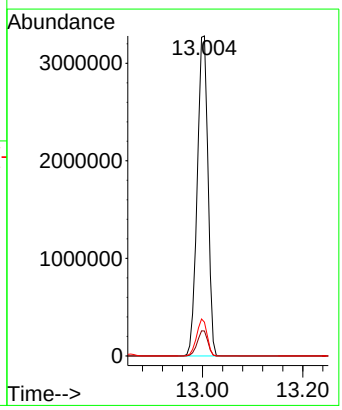
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

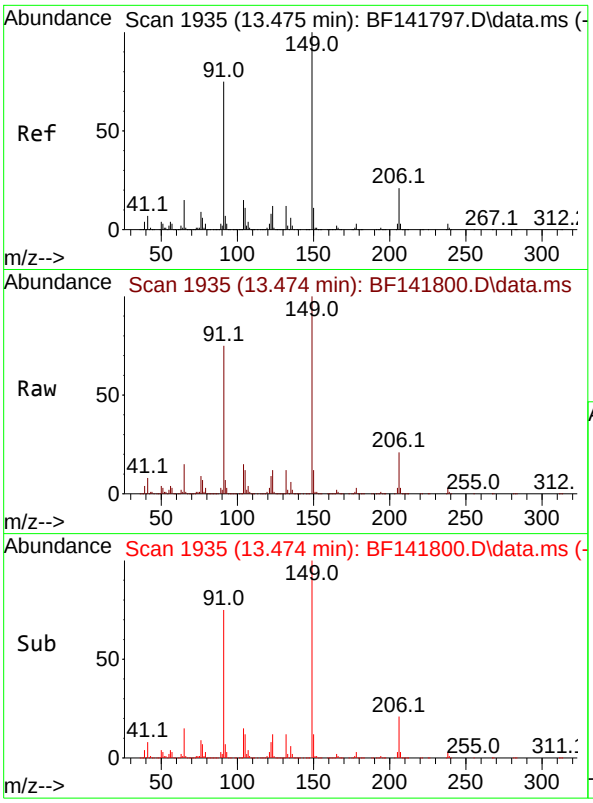


#79
Terphenyl-d14
Concen: 149.765 ng
RT: 13.004 min Scan# 1855
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

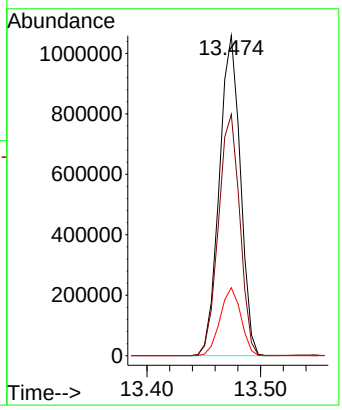




#80
Butylbenzylphthalate
Concen: 82.887 ng
RT: 13.474 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 136438

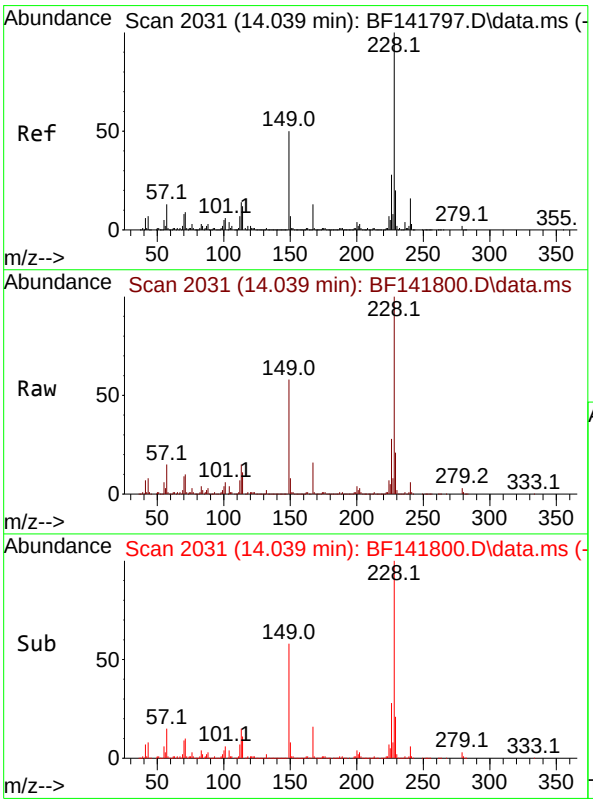
Ion	Ratio	Lower	Upper
149	100		
91	75.4	60.1	90.1
206	21.2	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

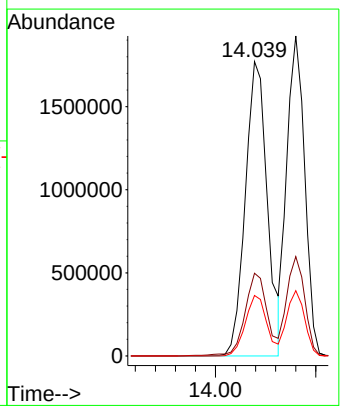
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

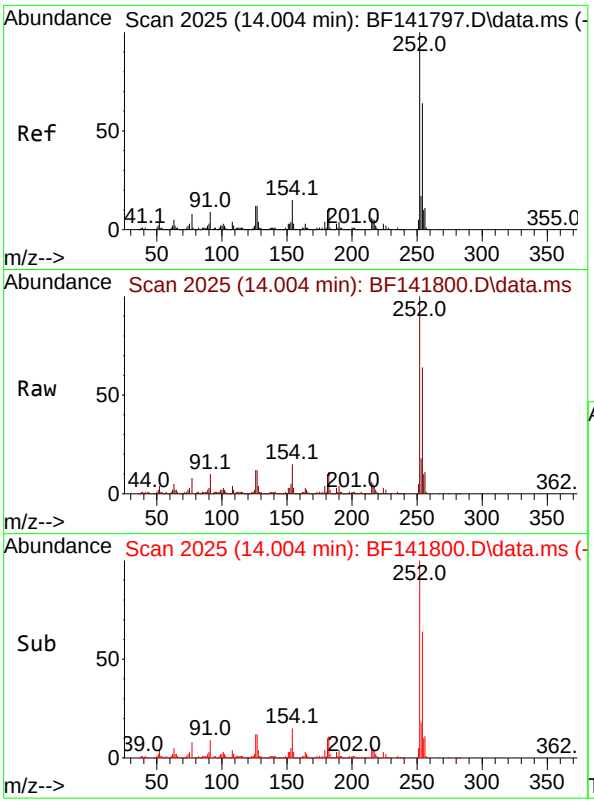


#81
Benzo(a)anthracene
Concen: 78.217 ng
RT: 14.039 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

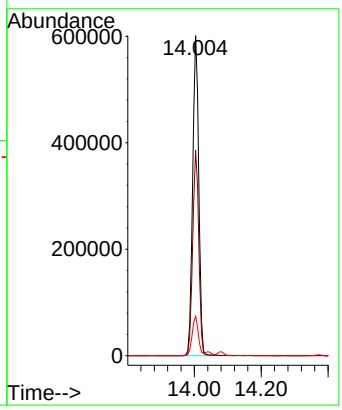




#82
3,3'-Dichlorobenzidine
Concen: 76.939 ng
RT: 14.004 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 76285

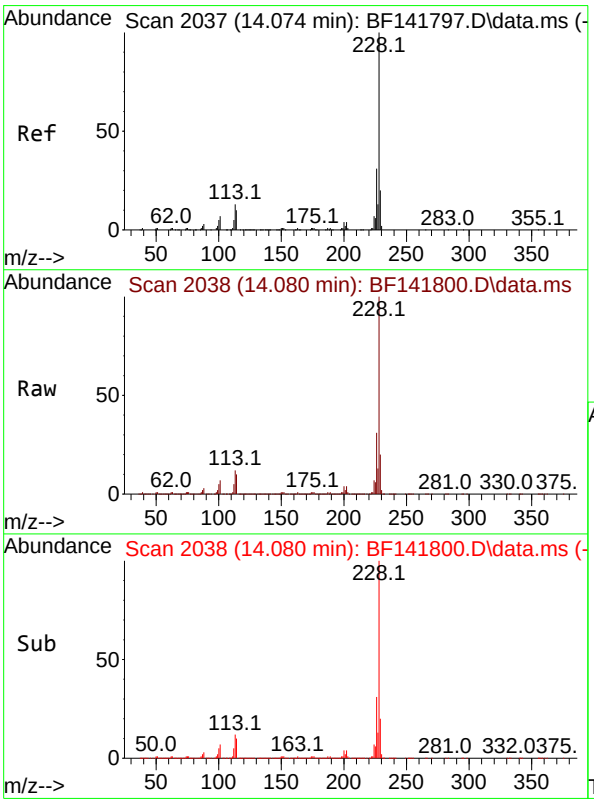
Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	12.3	9.8	14.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

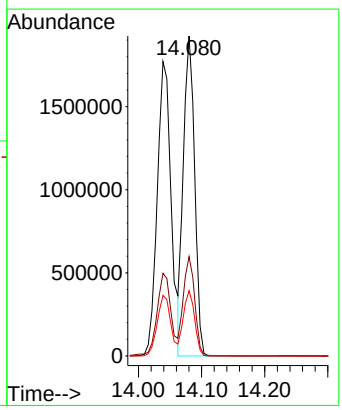
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

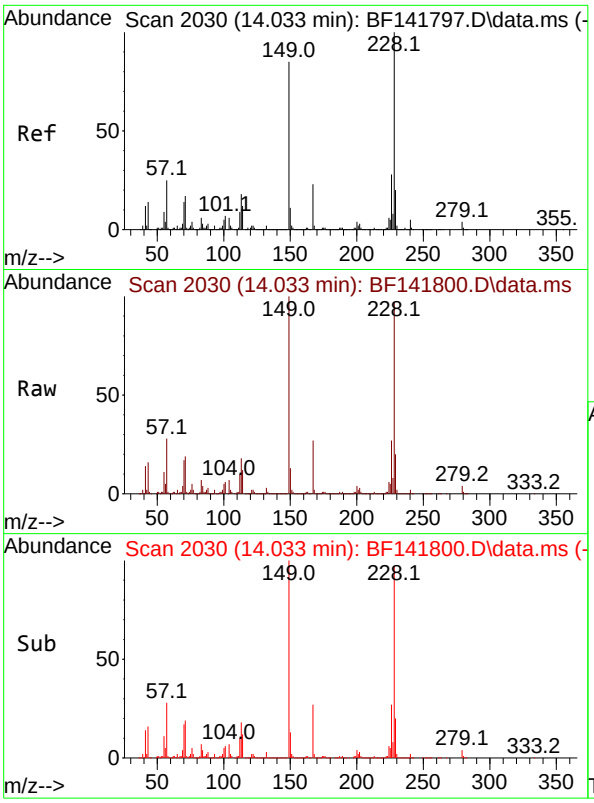


#83
Chrysene
Concen: 75.176 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

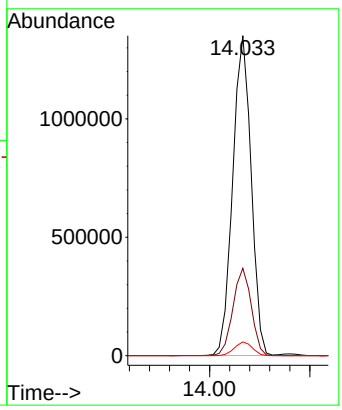




#84
Bis(2-ethylhexyl)phthalate
Concen: 84.426 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:149 Resp: 173041

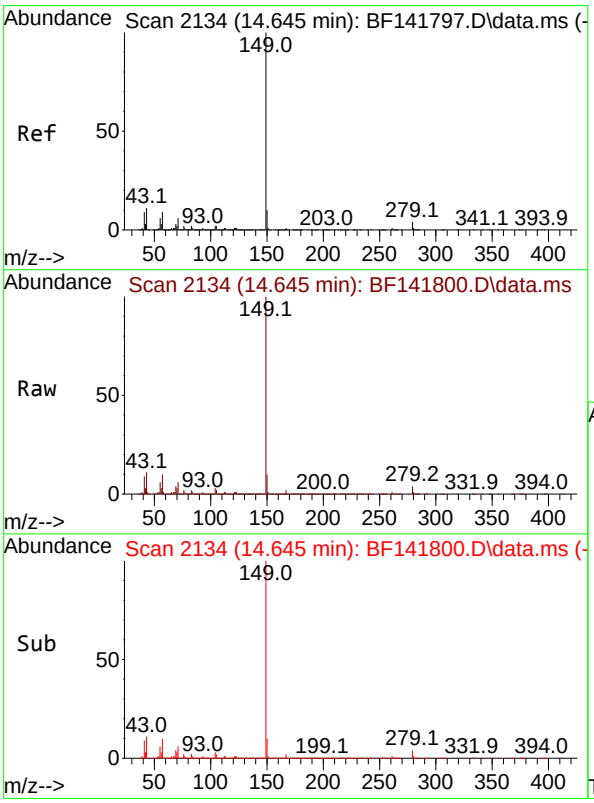
Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.2	31.8
279	4.3	3.3	4.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

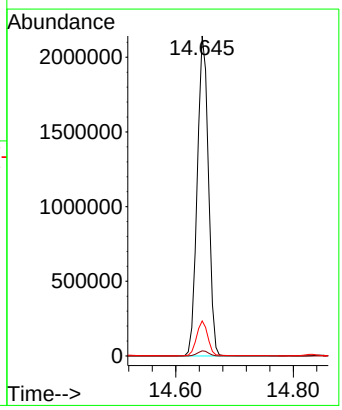
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

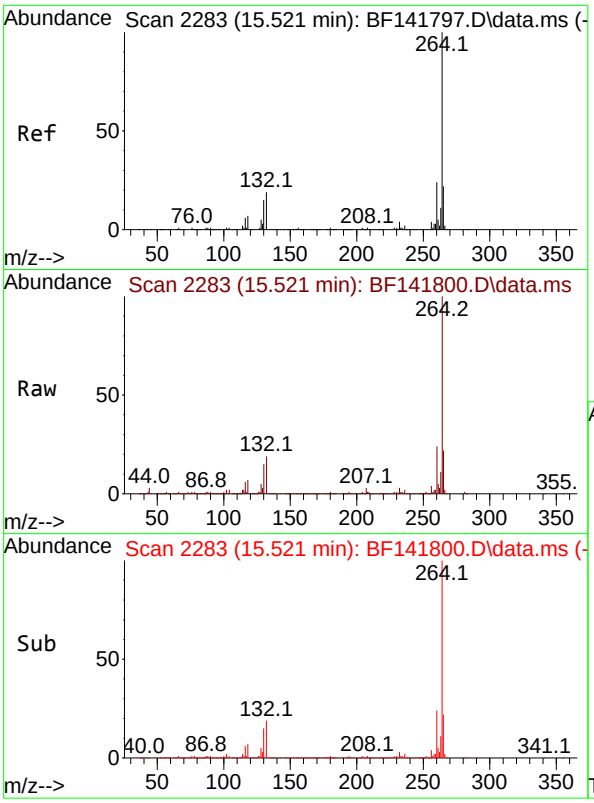


#85
Di-n-octyl phthalate
Concen: 91.958 ng
RT: 14.645 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

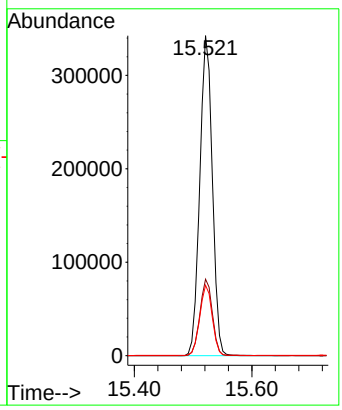




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:264 Resp: 50861

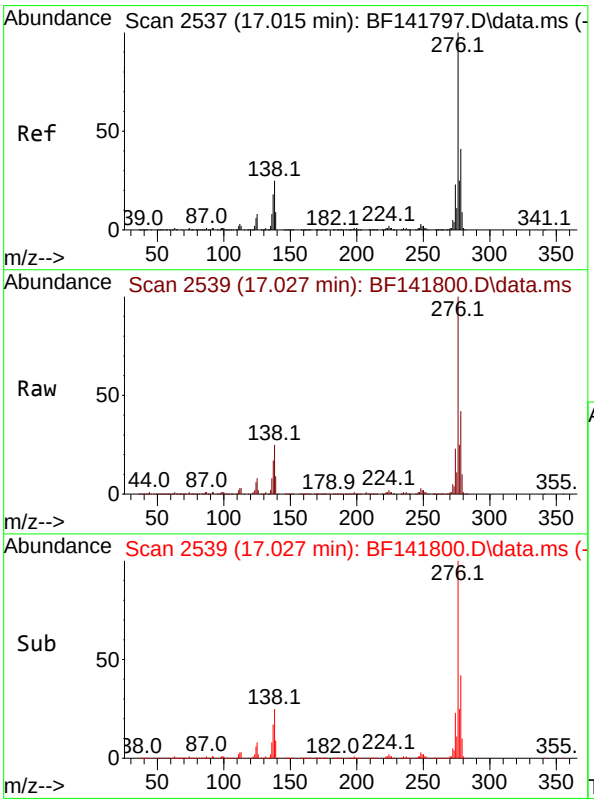
Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.9	28.3
265	22.0	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

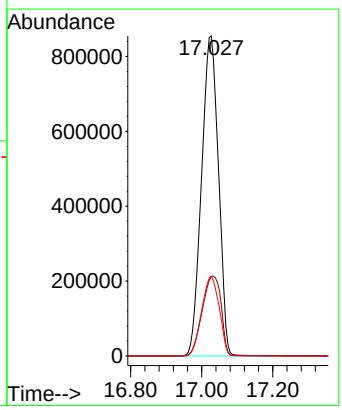
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

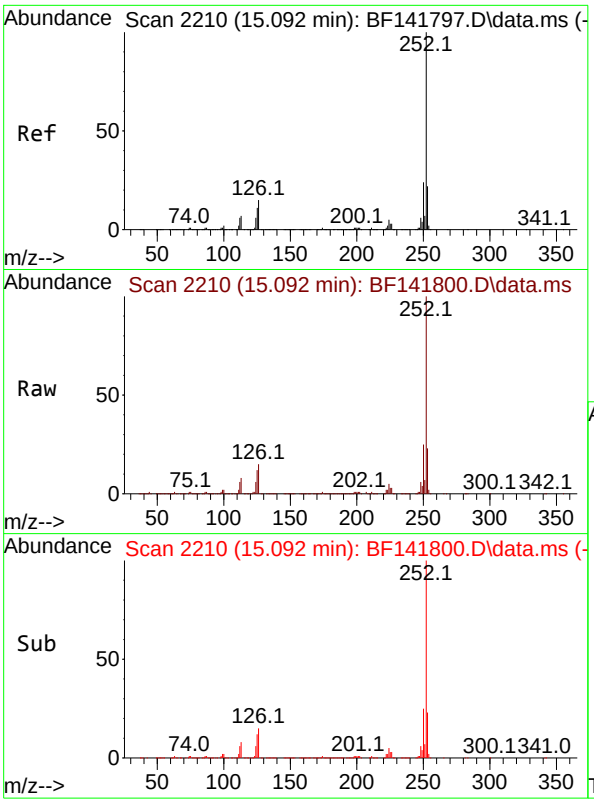


#87
Indeno(1,2,3-cd)pyrene
Concen: 87.778 ng
RT: 17.027 min Scan# 2539
Delta R.T. 0.012 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

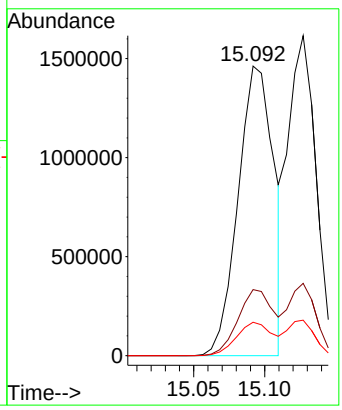




#88
Benzo(b)fluoranthene
Concen: 73.777 ng
RT: 15.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 255601

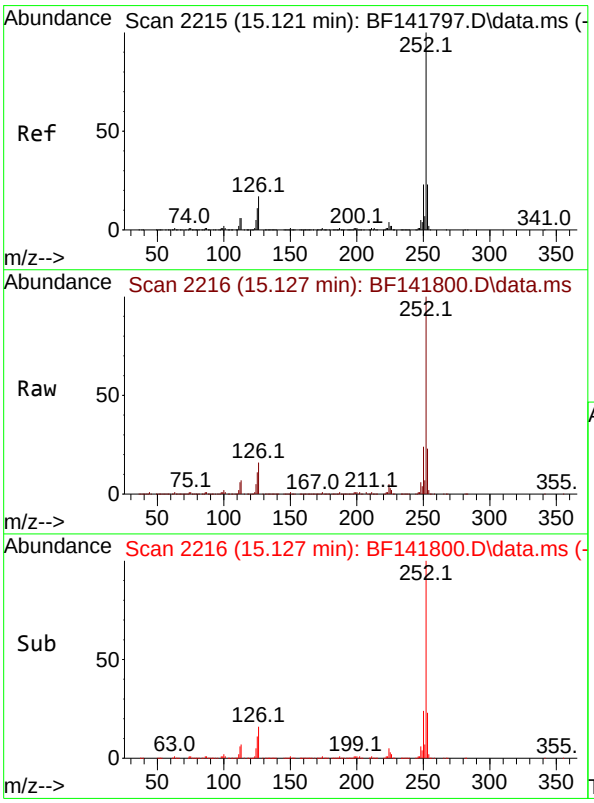
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.7	26.5
125	11.6	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

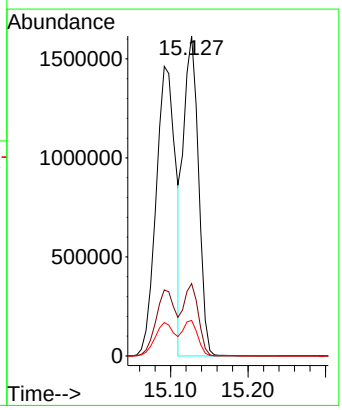
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

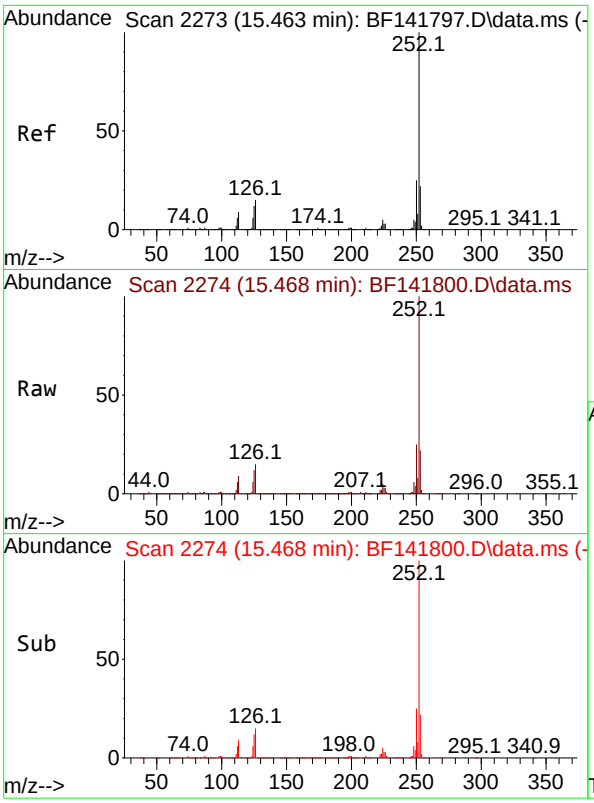


#89
Benzo(k)fluoranthene
Concen: 74.176 ng
RT: 15.127 min Scan# 2216
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

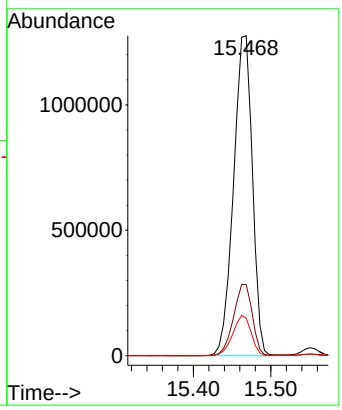




#90
Benzo(a)pyrene
Concen: 77.617 ng
RT: 15.468 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

Tgt Ion:252 Resp: 215658

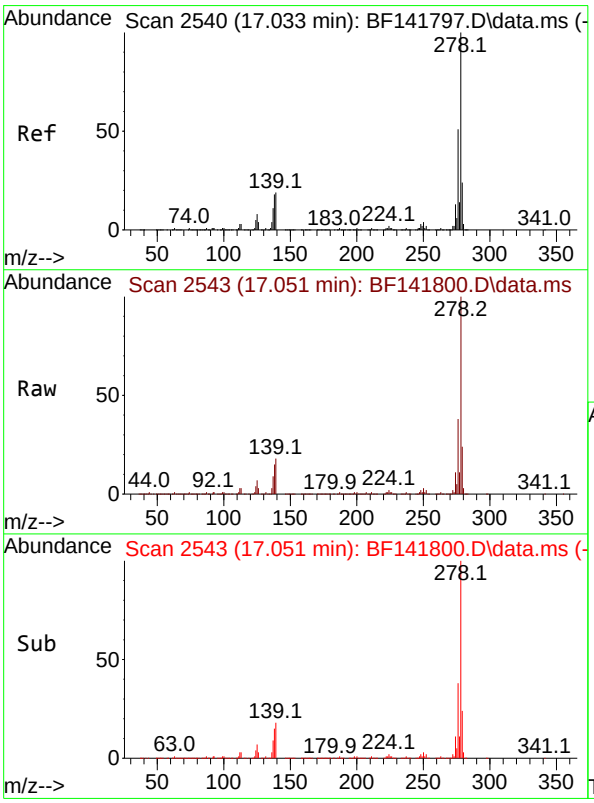
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.7	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

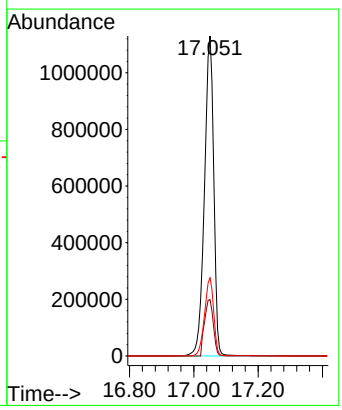
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

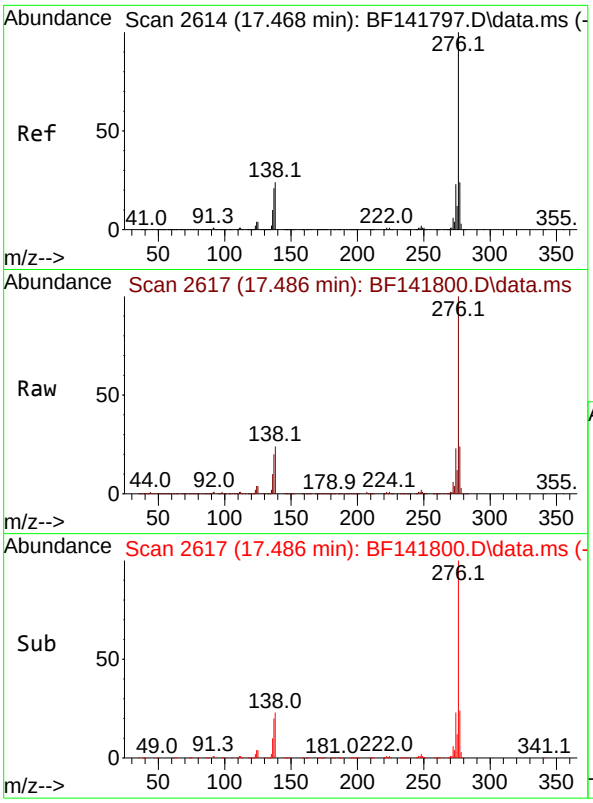


#91
Dibenzo(a,h)anthracene
Concen: 85.844 ng
RT: 17.051 min Scan# 2543
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

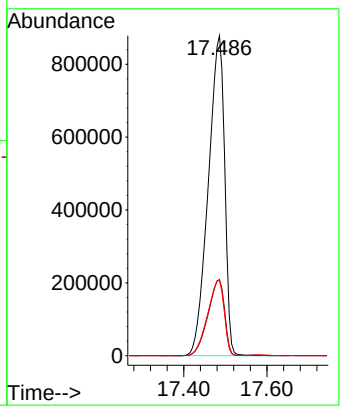




#92
Benzo(g,h,i)perylene
Concen: 88.534 ng
RT: 17.486 min Scan# 2
Delta R.T. 0.017 min
Lab File: BF141800.D
Acq: 27 Feb 2025 18:45

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

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

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

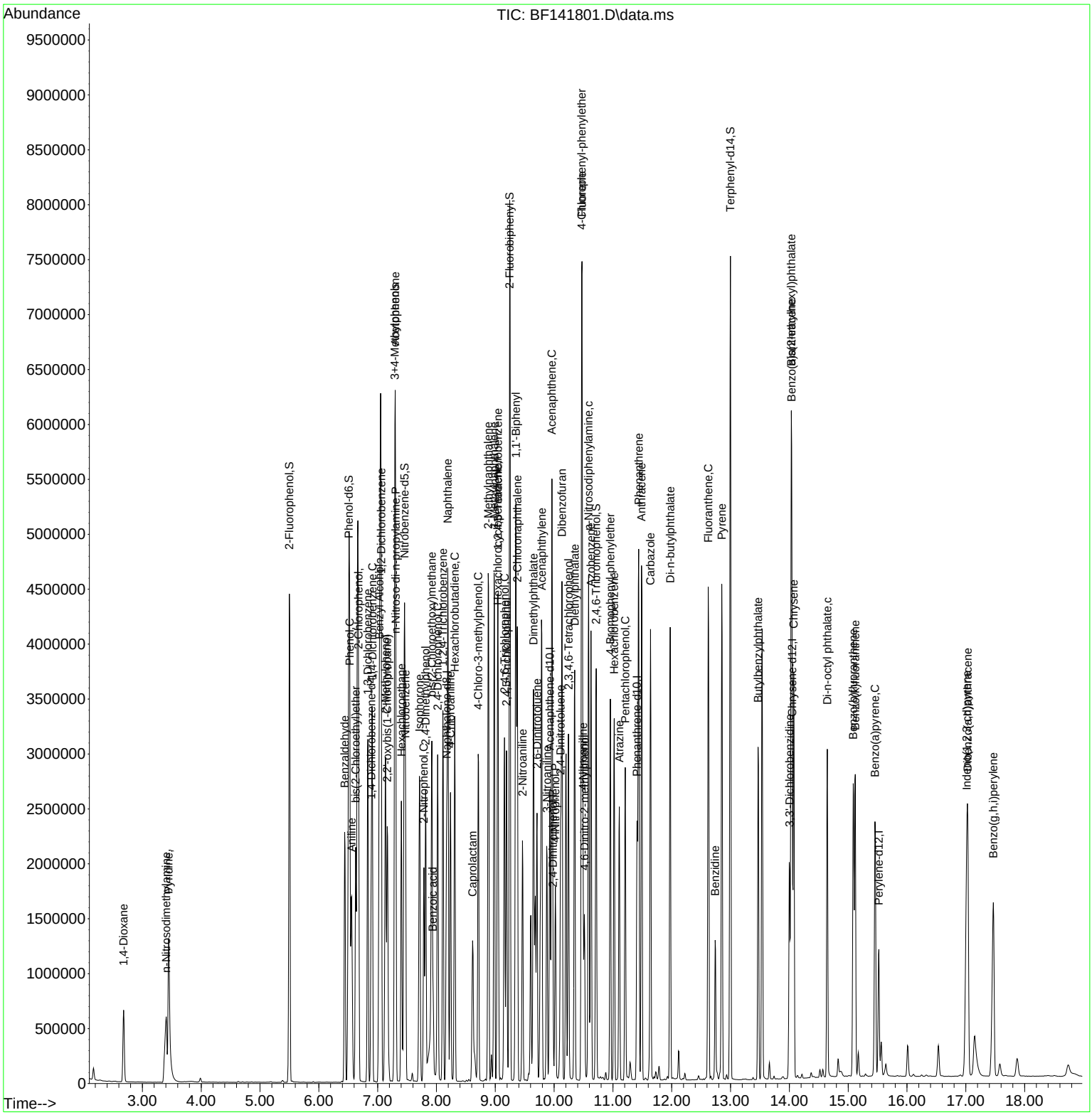
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	582125	41.806	ng		100
46) 1,1'-Biphenyl	9.351	154	2229687	38.864	ng		100
47) 2-Chloronaphthalene	9.375	162	1663643	39.288	ng		100
48) 2-Nitroaniline	9.463	65	514104	44.684	ng		99
49) Acenaphthylene	9.792	152	2533613	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

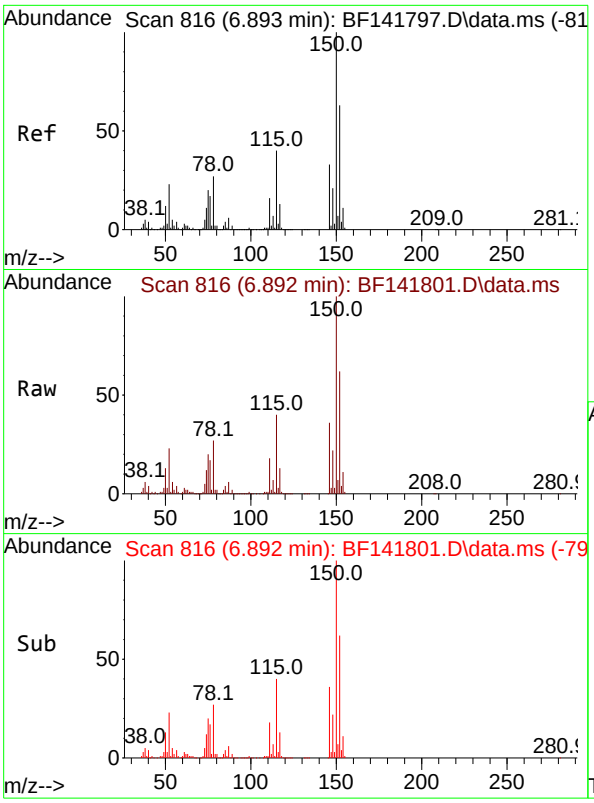
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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



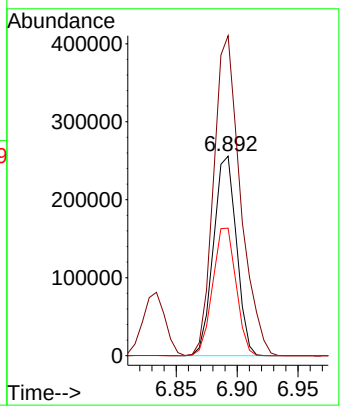


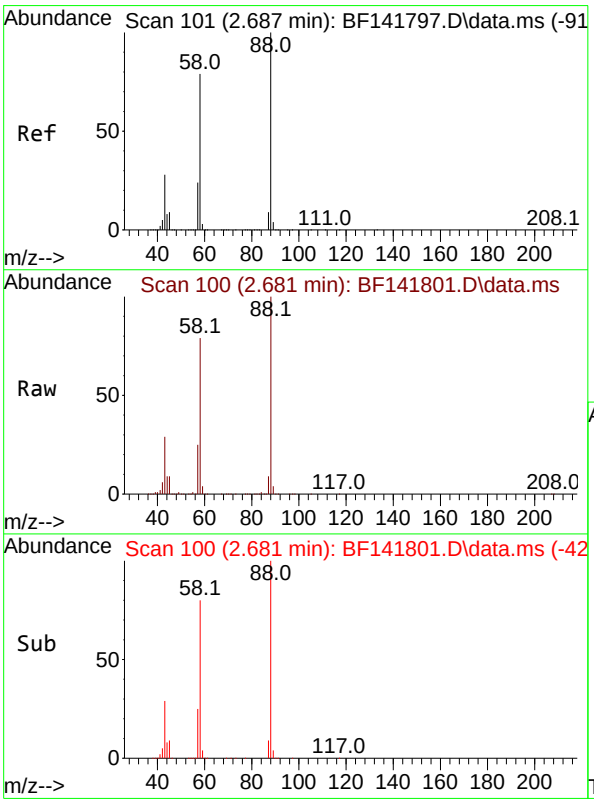
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. -0.001 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

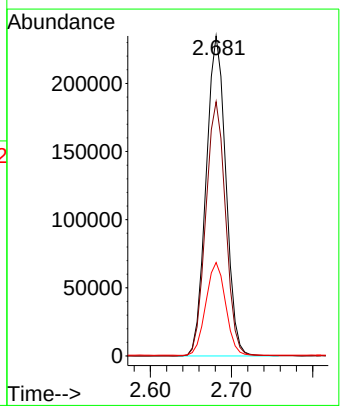


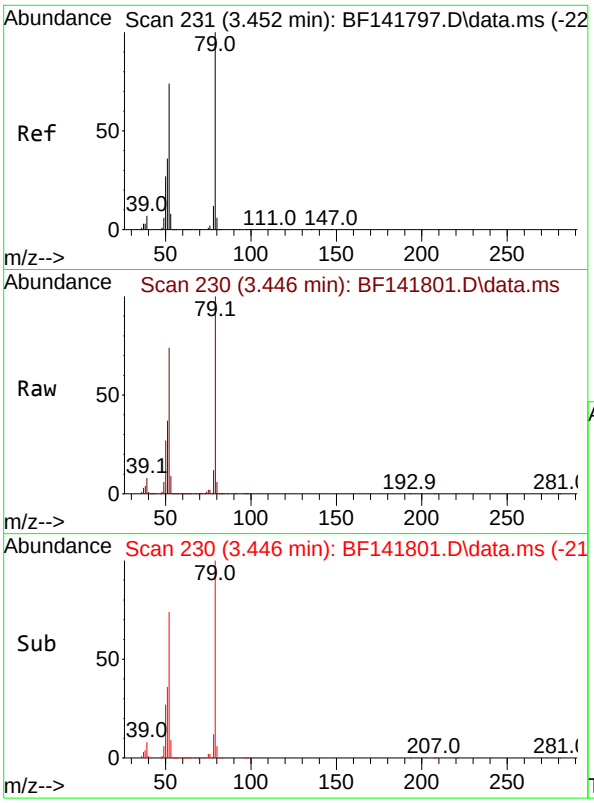


#2
1,4-Dioxane
Concen: 41.486 ng
RT: 2.681 min Scan# 100
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



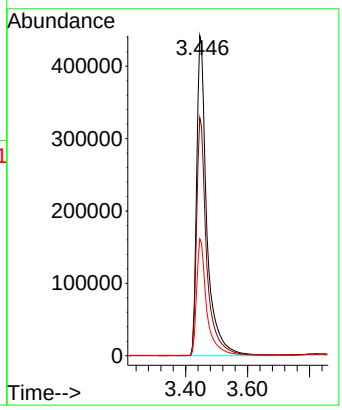


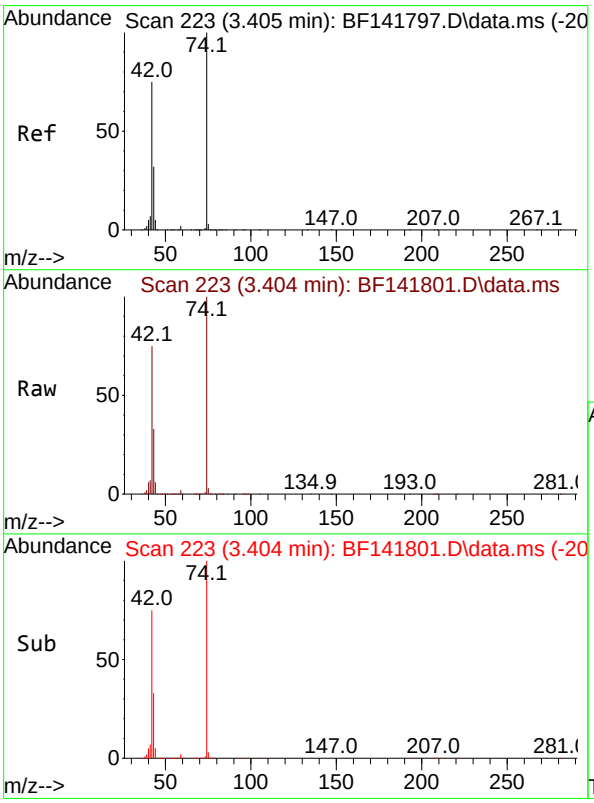
#3
Pyridine
Concen: 42.572 ng
RT: 3.446 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

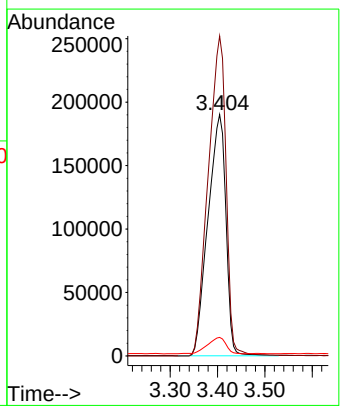


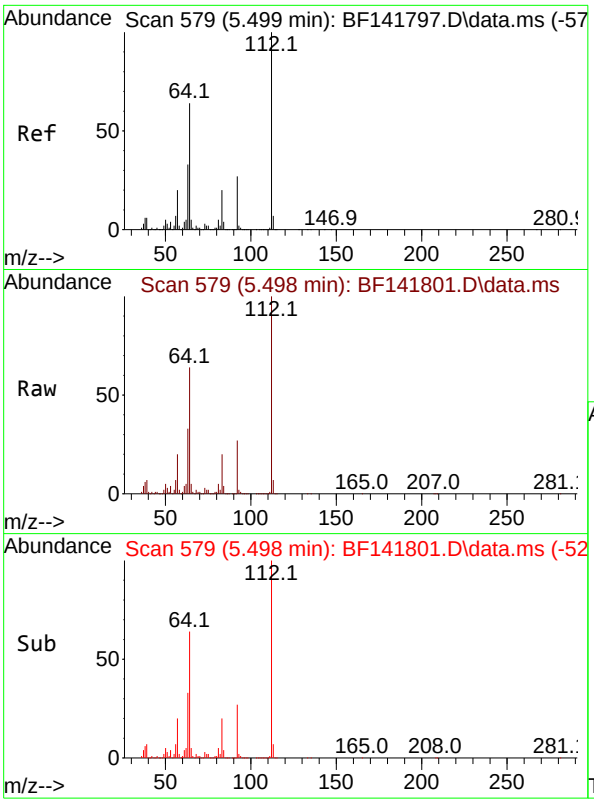


#4
n-Nitrosodimethylamine
Concen: 43.575 ng
RT: 3.404 min Scan# 223
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



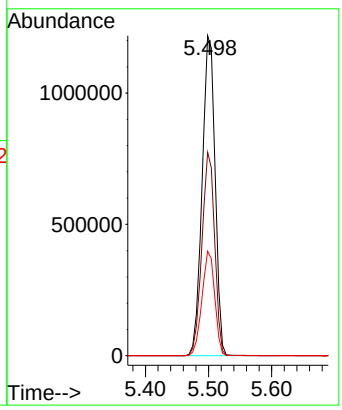


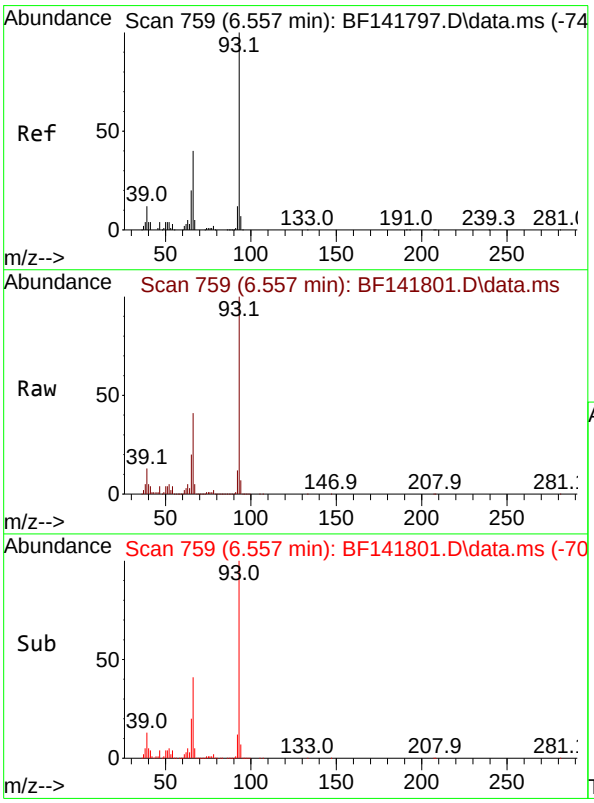
#5
2-Fluorophenol
Concen: 82.443 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

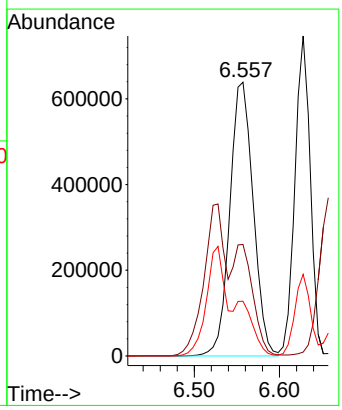


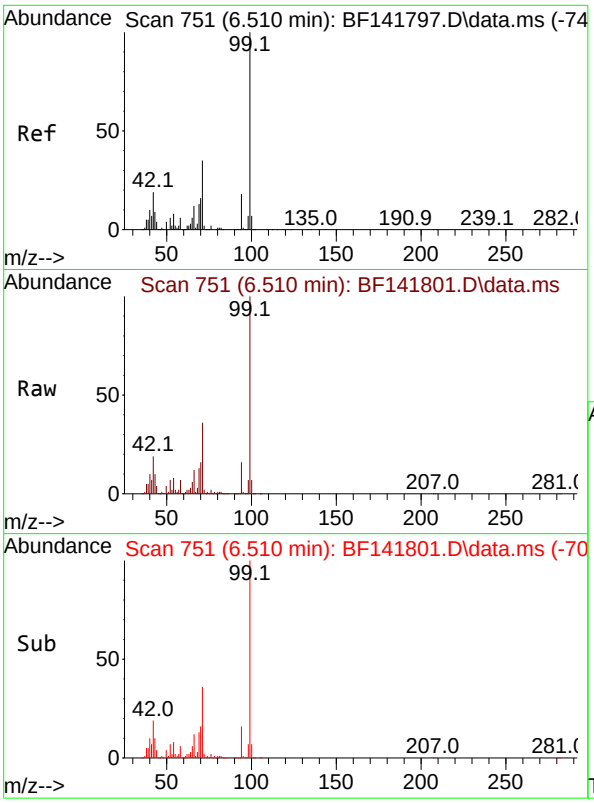


#6
Aniline
Concen: 42.857 ng
RT: 6.557 min Scan# 759
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



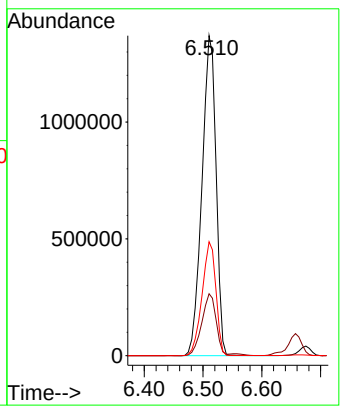


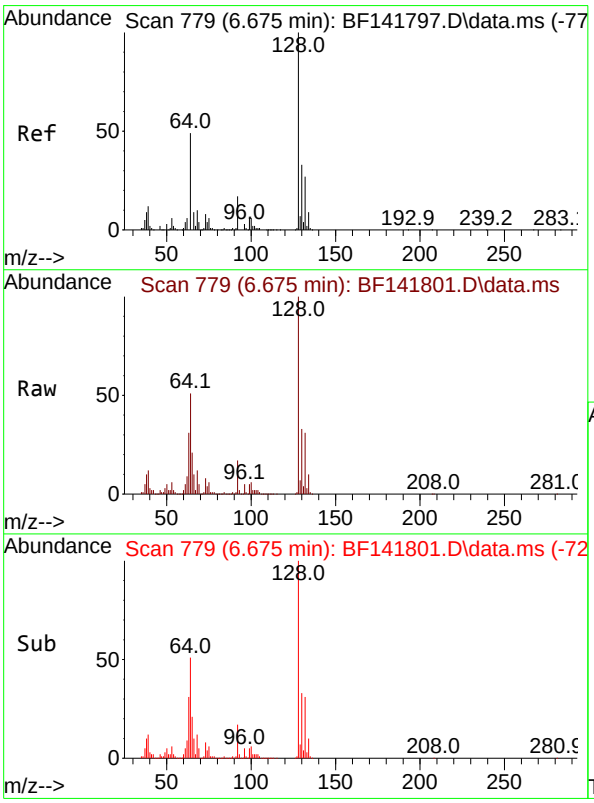
#7
Phenol-d6
Concen: 83.039 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

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

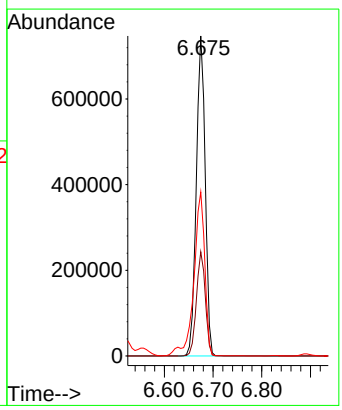


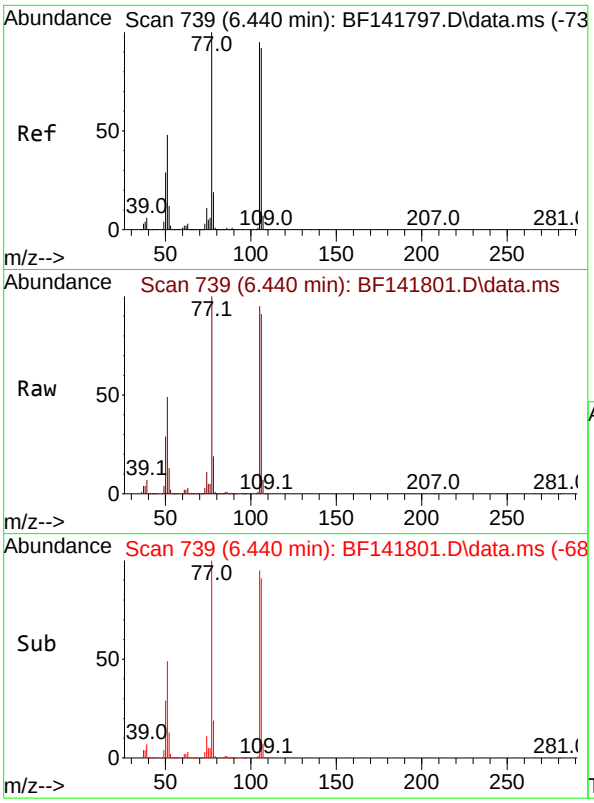


#8
2-Chlorophenol
Concen: 42.011 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



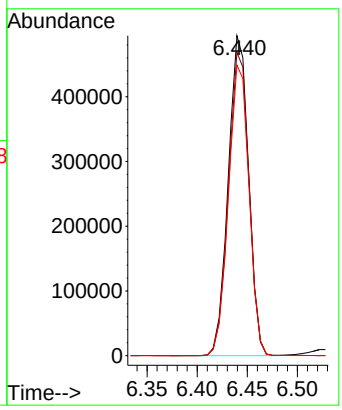


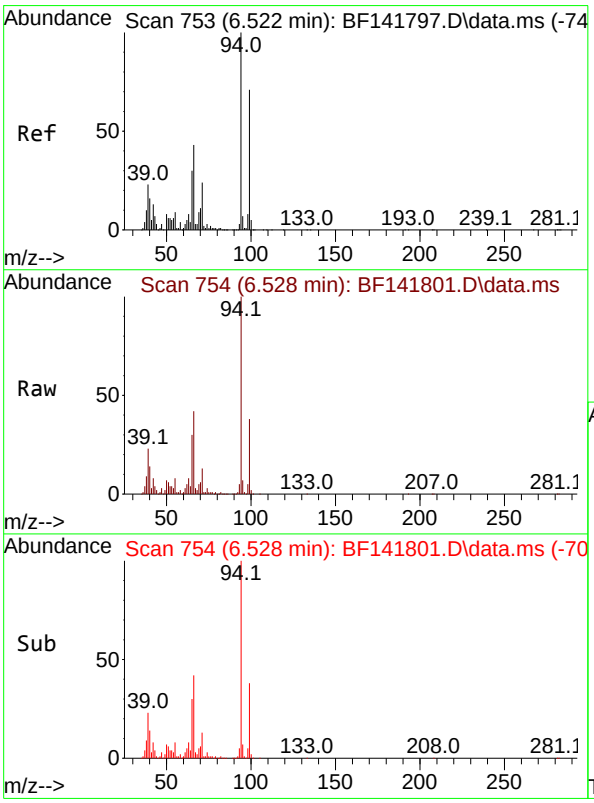
#9
Benzaldehyde
Concen: 43.684 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

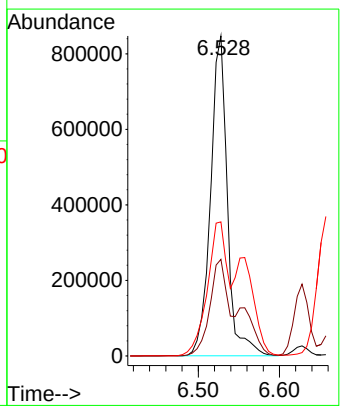


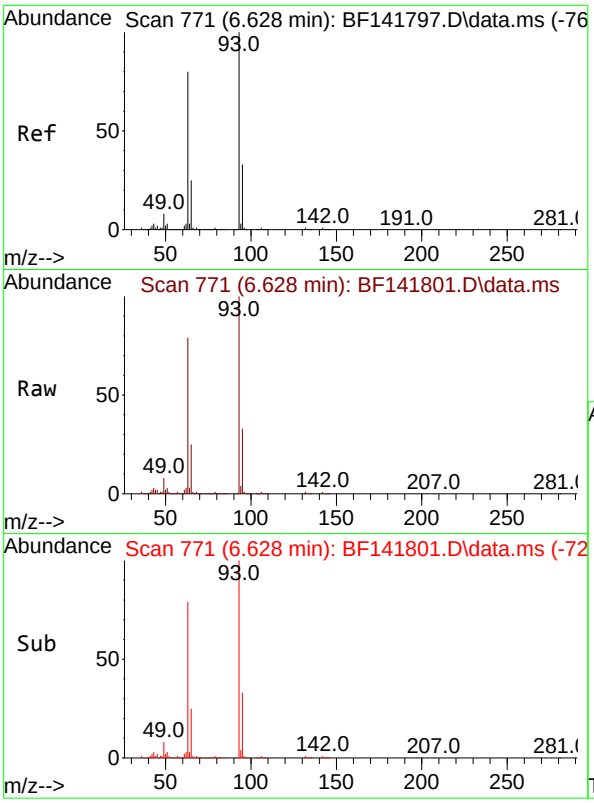


#10
Phenol
Concen: 41.614 ng
RT: 6.528 min Scan# 754
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



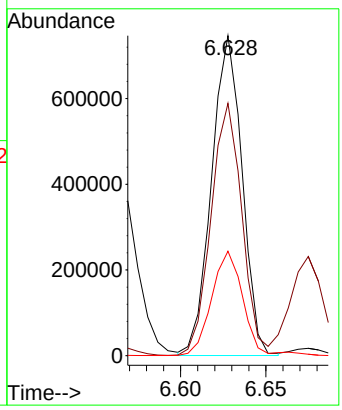


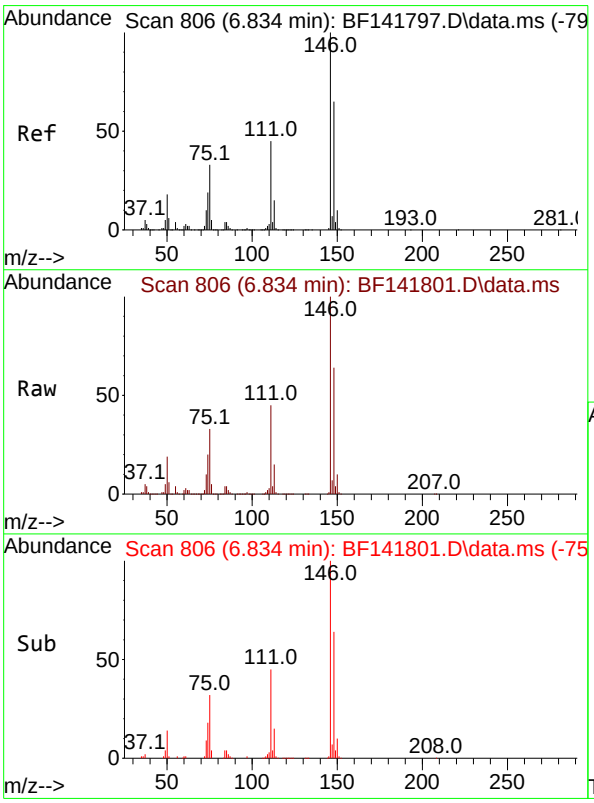
#11
bis(2-Chloroethyl)ether
Concen: 41.763 ng
RT: 6.628 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

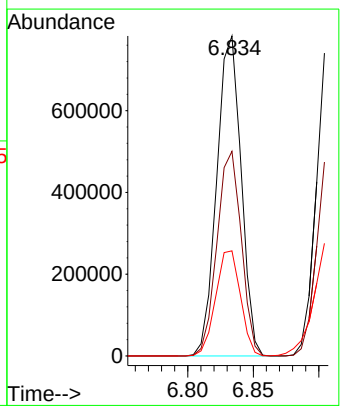


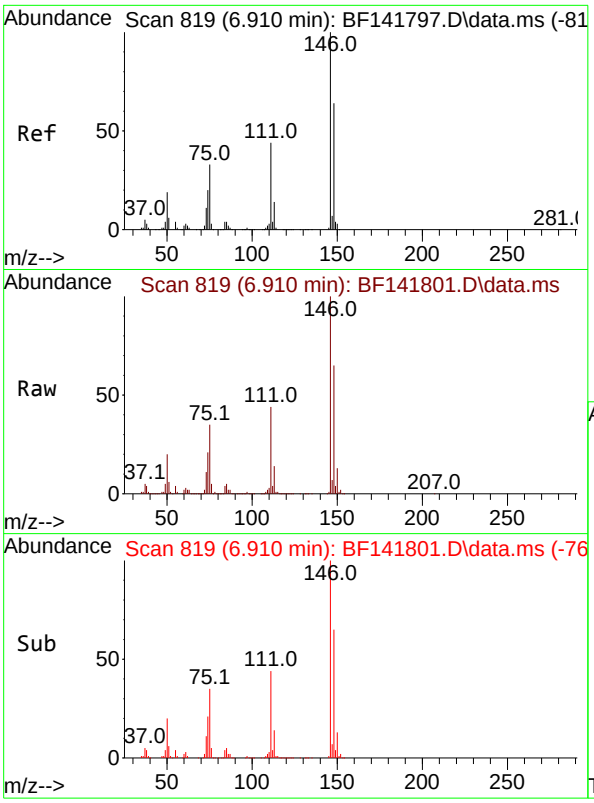


#12
1,3-Dichlorobenzene
Concen: 41.498 ng
RT: 6.834 min Scan# 806
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



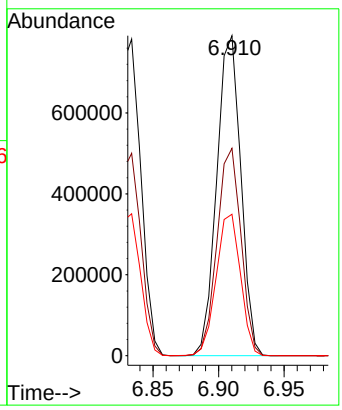


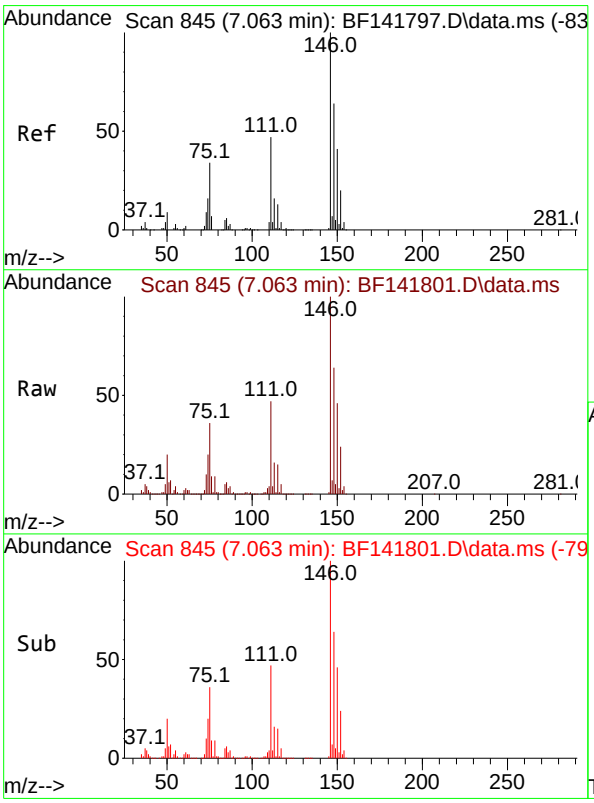
#13
1,4-Dichlorobenzene
Concen: 41.066 ng
RT: 6.910 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

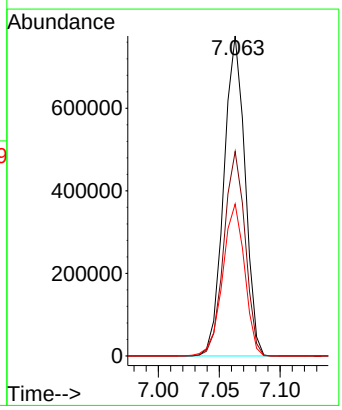


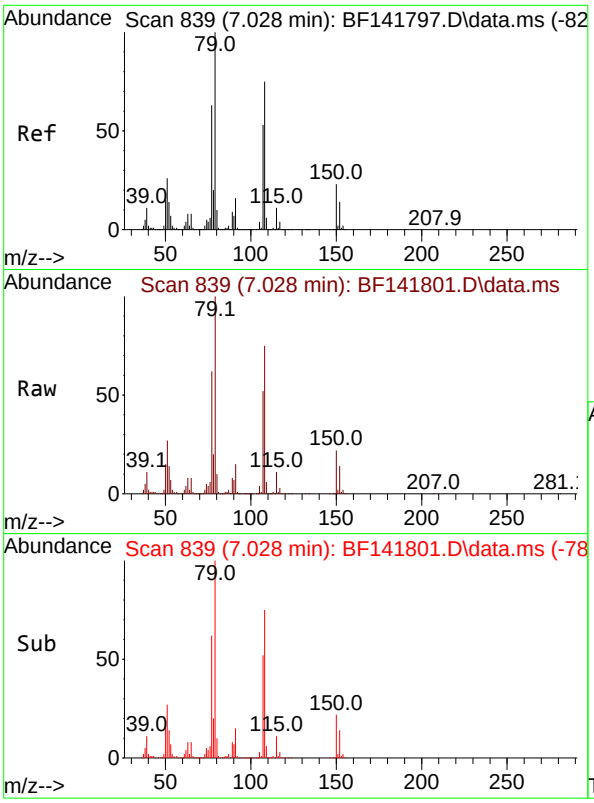


#14
1,2-Dichlorobenzene
Concen: 40.857 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



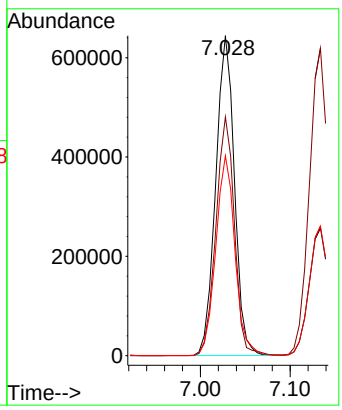


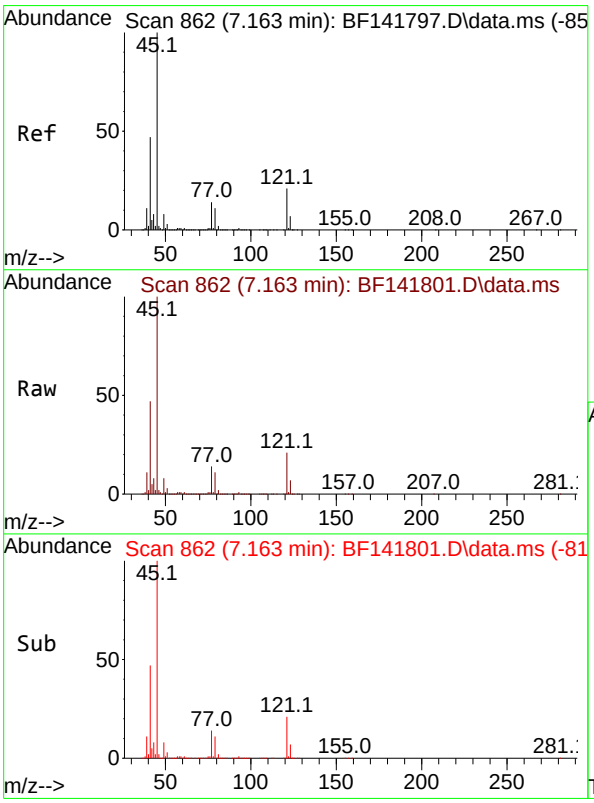
#15
Benzyl Alcohol
Concen: 42.564 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

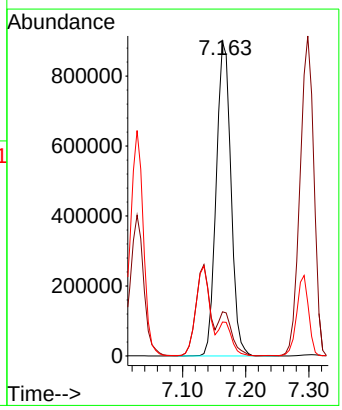


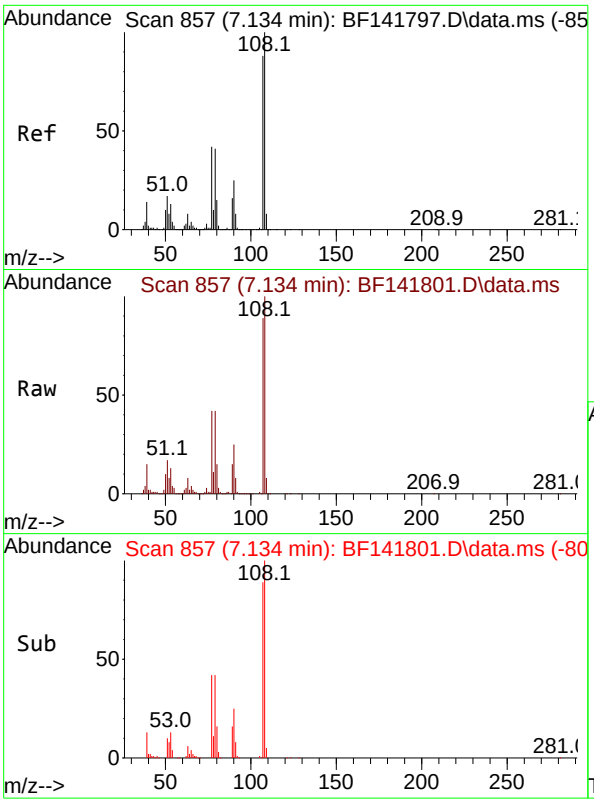


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.679 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



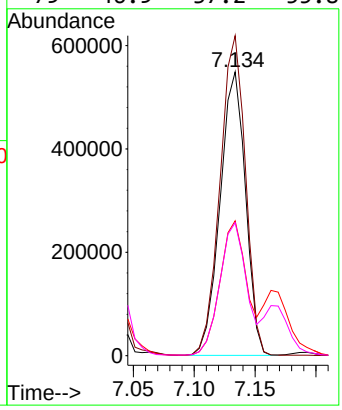


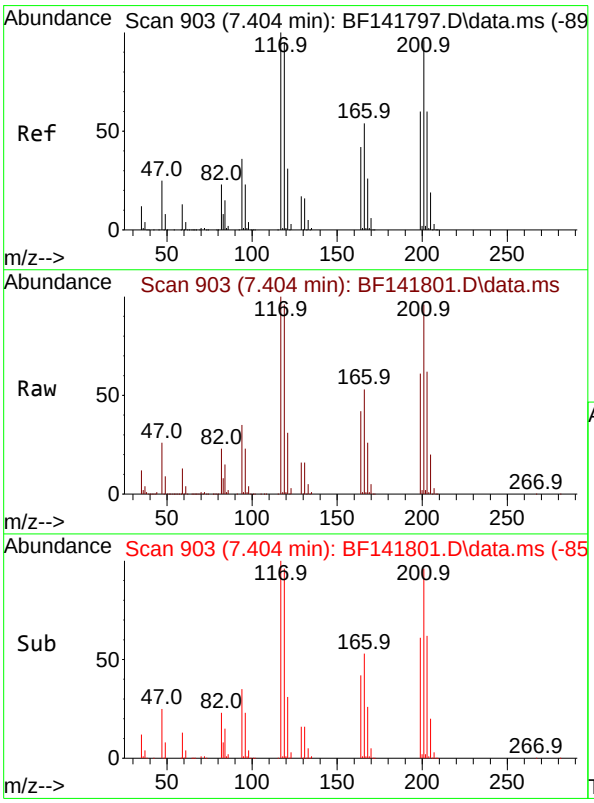
#17
2-Methylphenol
Concen: 42.365 ng
RT: 7.134 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

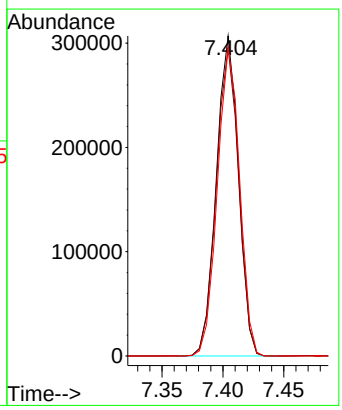


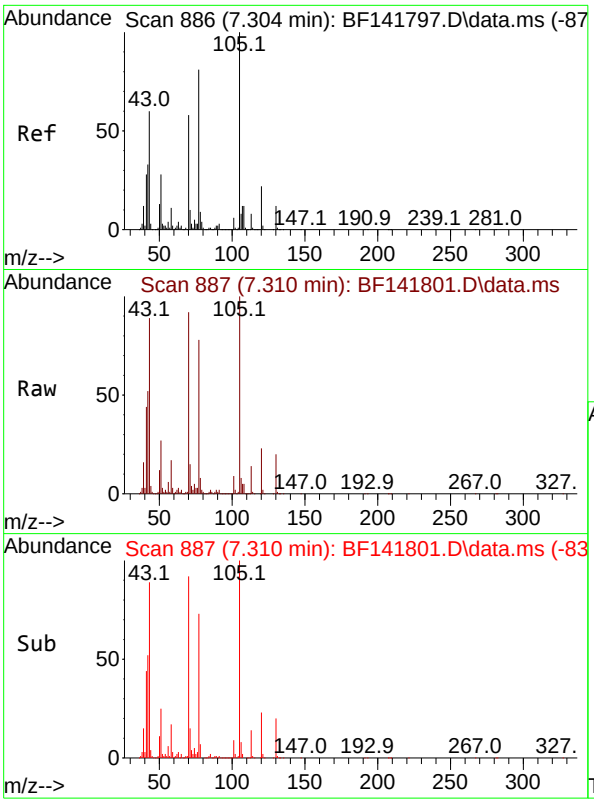


#18
Hexachloroethane
Concen: 42.366 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



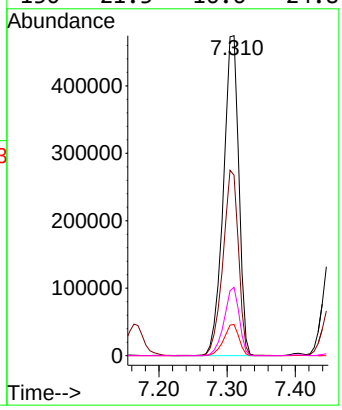


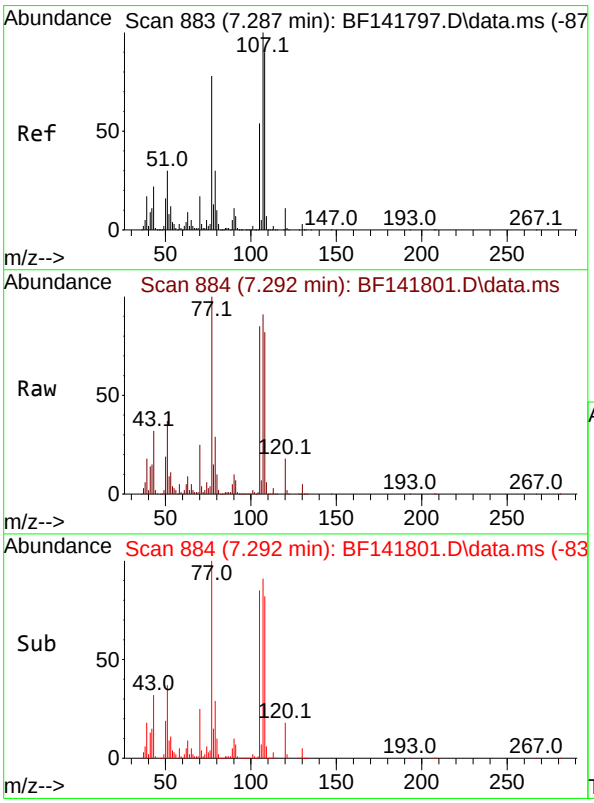
#19
n-Nitroso-di-n-propylamine
Concen: 41.525 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

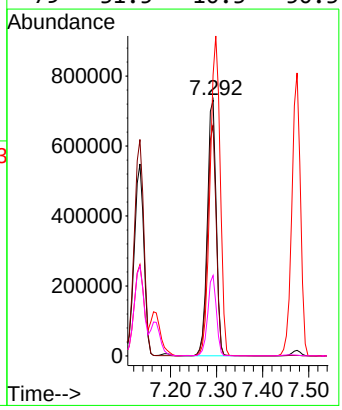


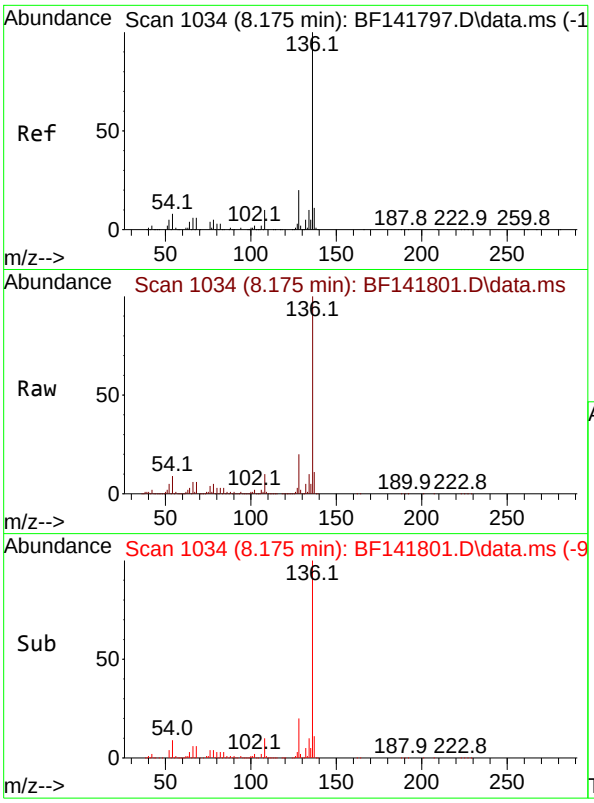


#20
3+4-Methylphenols
Concen: 41.840 ng
RT: 7.292 min Scan# 884
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



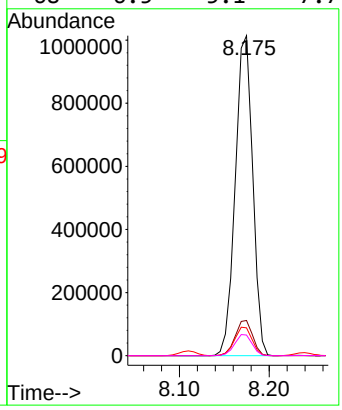


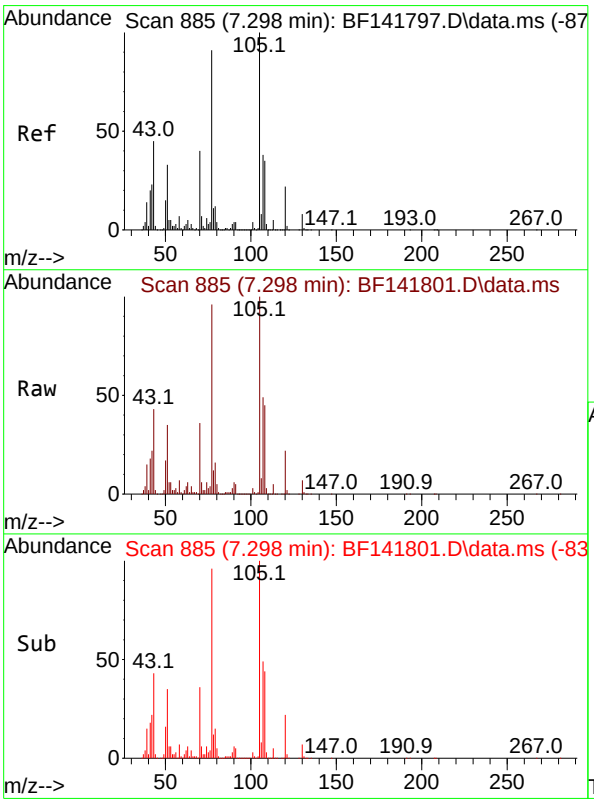
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

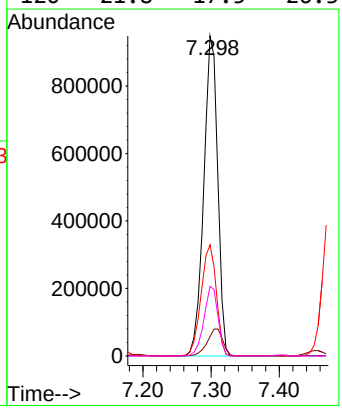


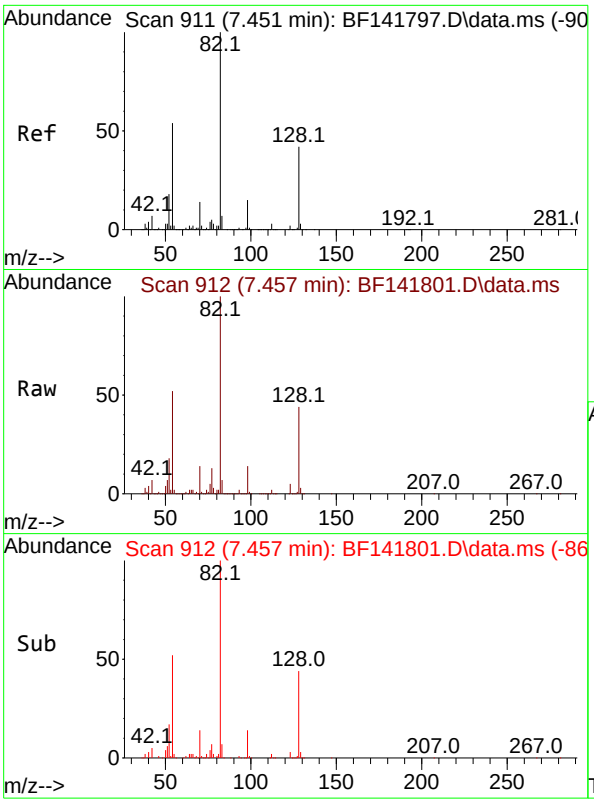


#22
Acetophenone
Concen: 40.417 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



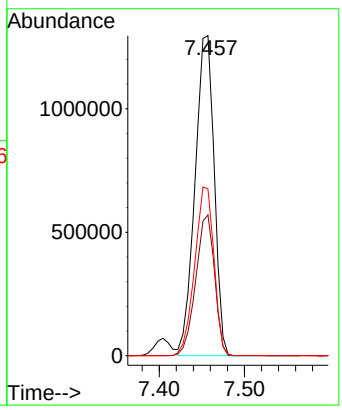


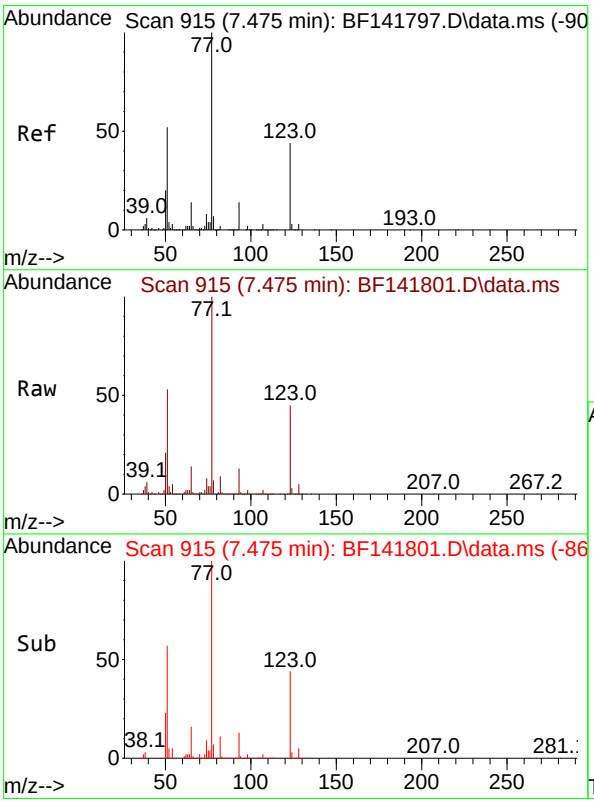
#23
Nitrobenzene-d5
Concen: 94.707 ng
RT: 7.457 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

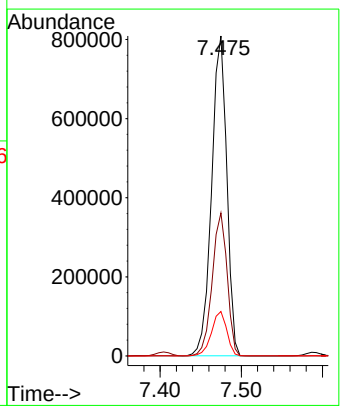


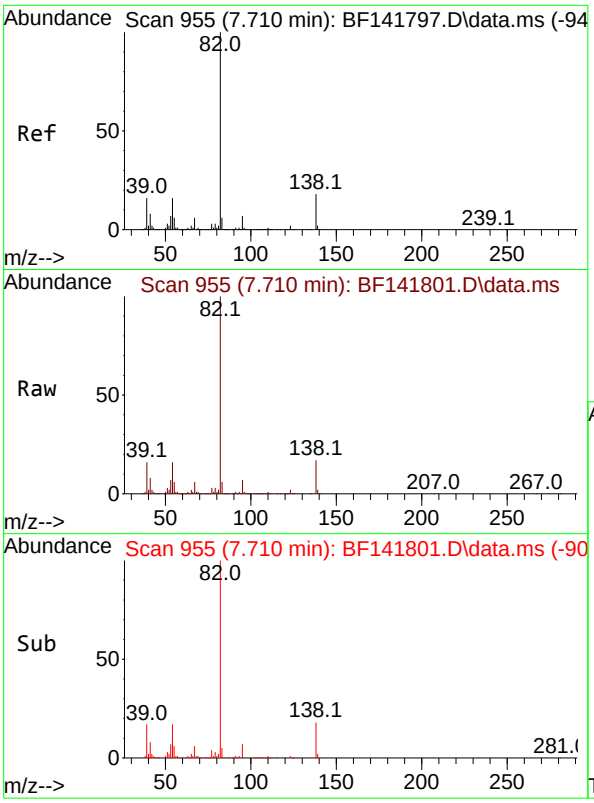


#24
Nitrobenzene
Concen: 45.751 ng
RT: 7.475 min Scan# 915
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



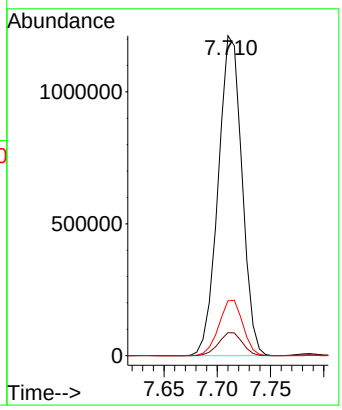


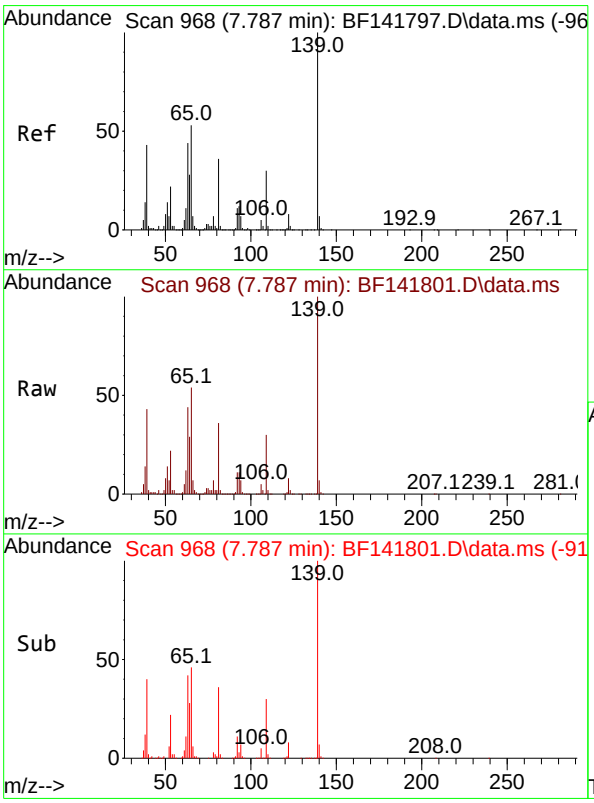
#25
Isophorone
Concen: 40.944 ng
RT: 7.710 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

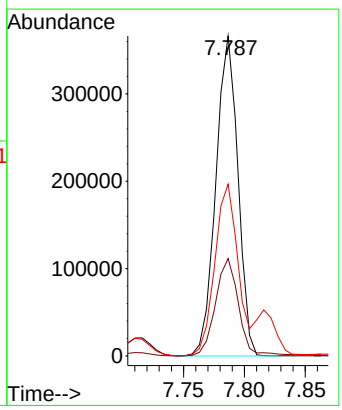


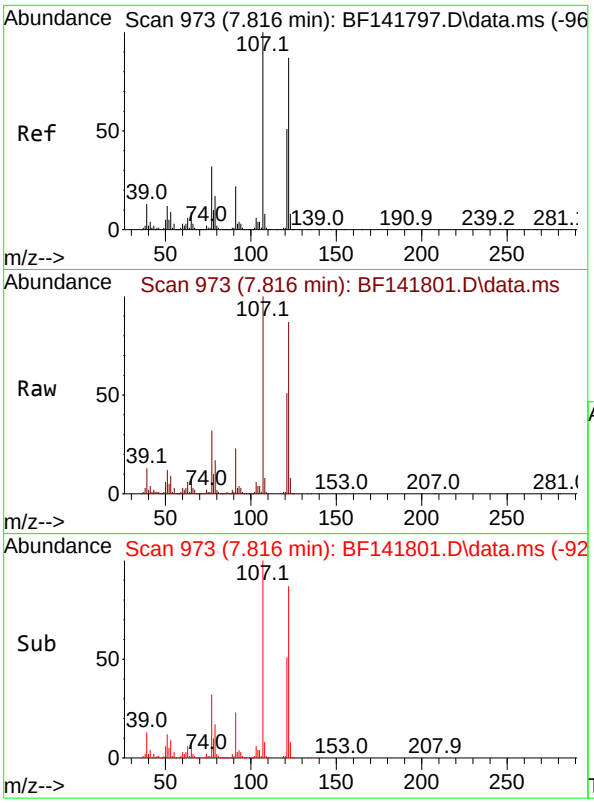


#26
2-Nitrophenol
Concen: 45.447 ng
RT: 7.787 min Scan# 968
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



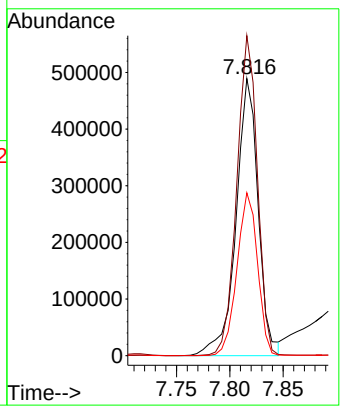


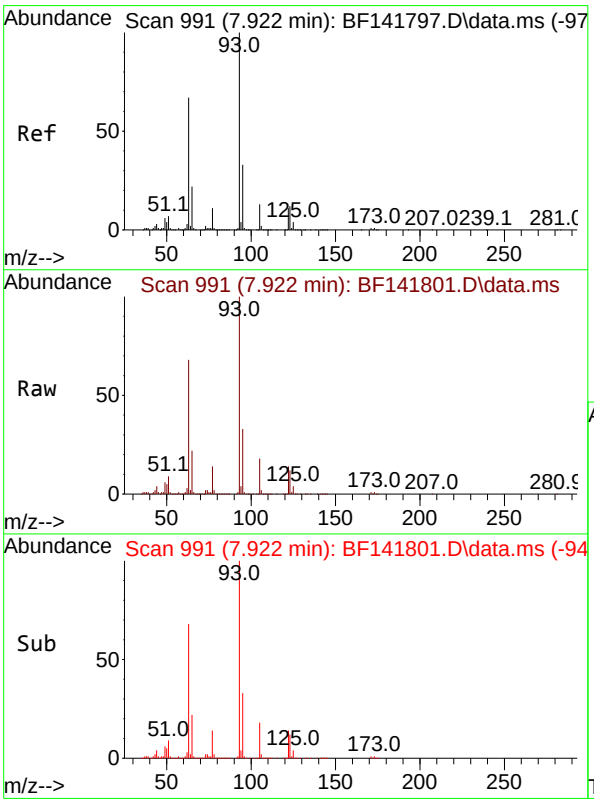
#27
2,4-Dimethylphenol
Concen: 41.931 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

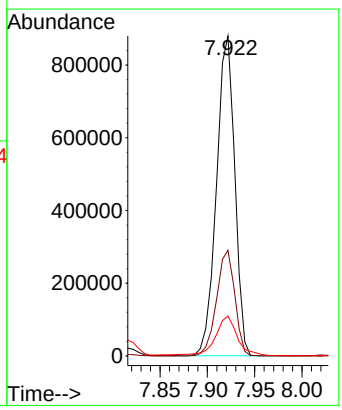


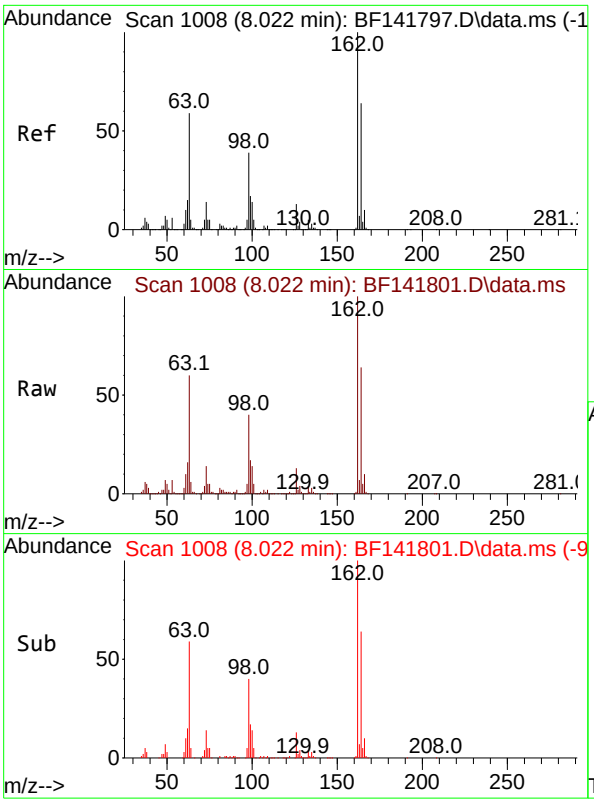


#28
bis(2-Chloroethoxy)methane
Concen: 40.357 ng
RT: 7.922 min Scan# 991
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



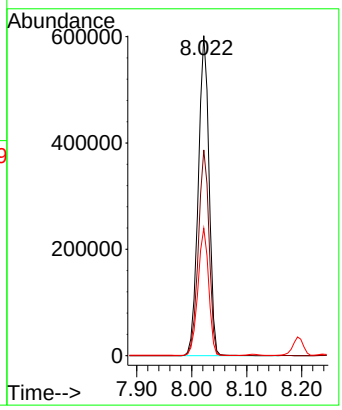


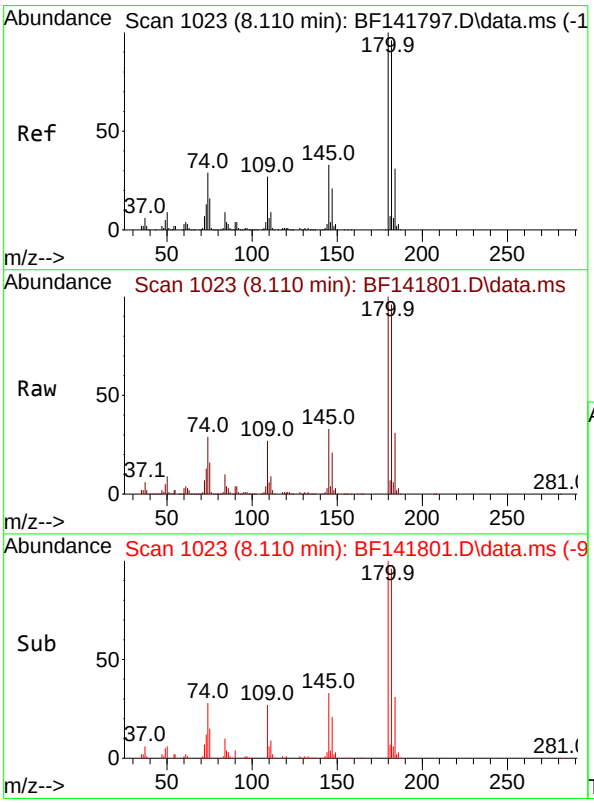
#29
2,4-Dichlorophenol
Concen: 42.157 ng
RT: 8.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

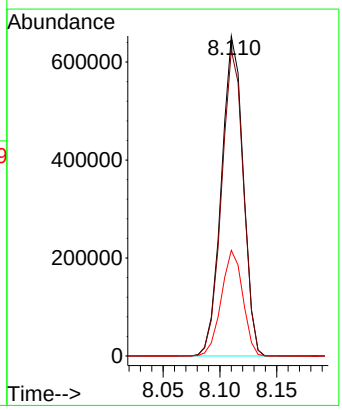


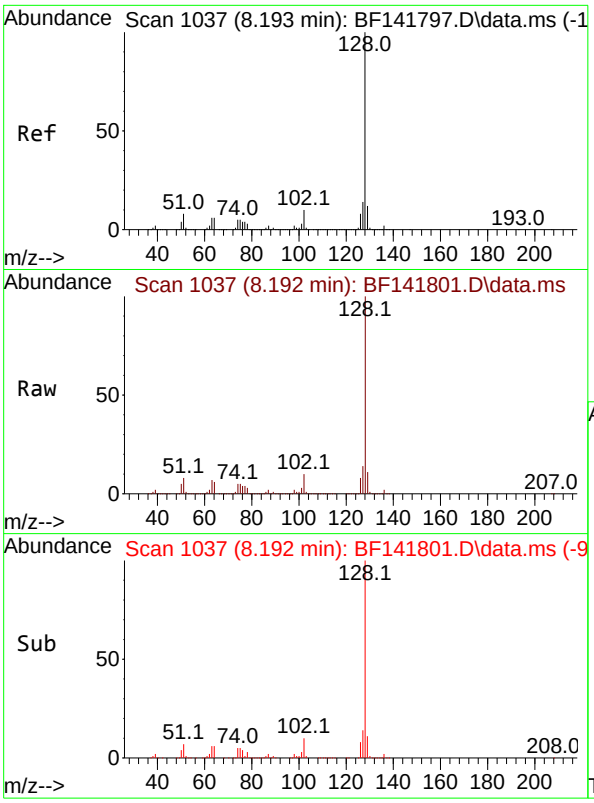


#30
1,2,4-Trichlorobenzene
Concen: 40.757 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



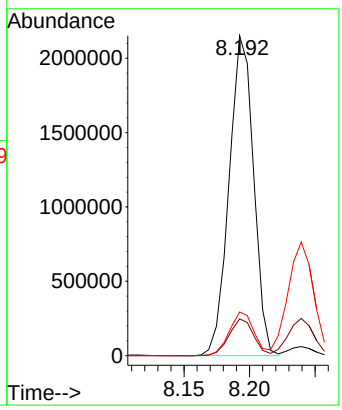


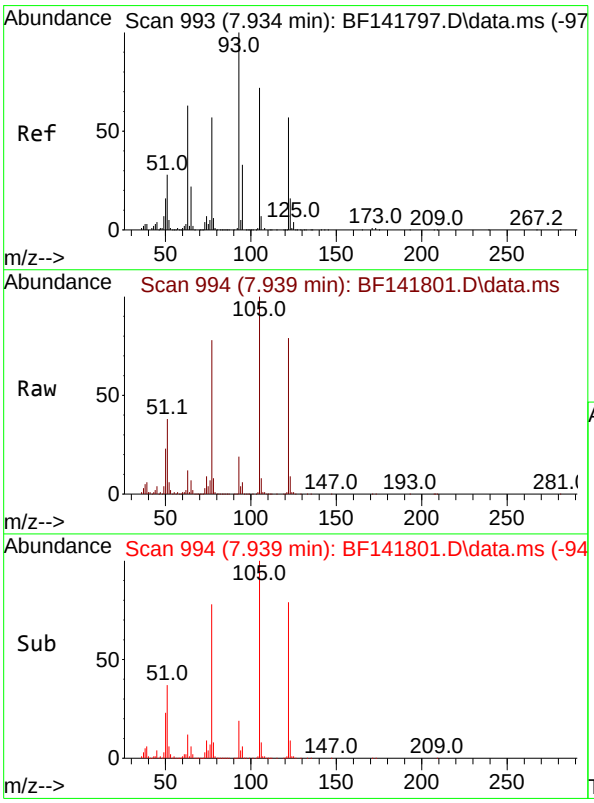
#31
Naphthalene
Concen: 39.854 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

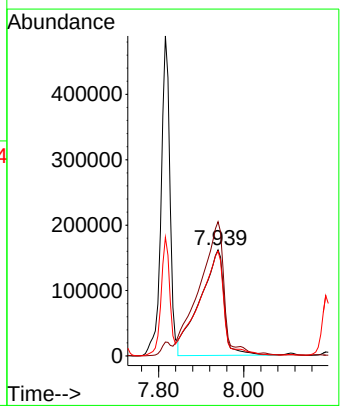


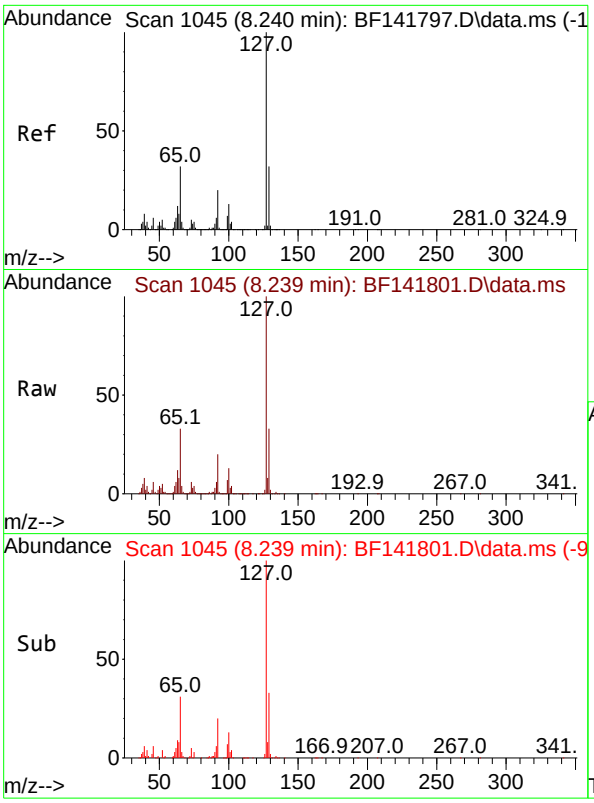


#32
Benzoic acid
Concen: 45.545 ng
RT: 7.939 min Scan# 994
Delta R.T. 0.005 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



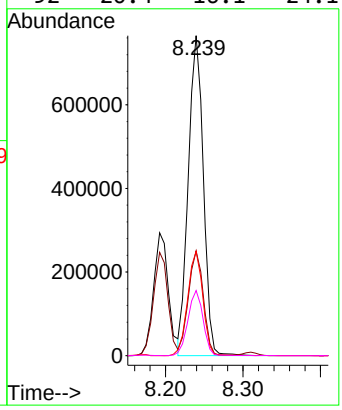


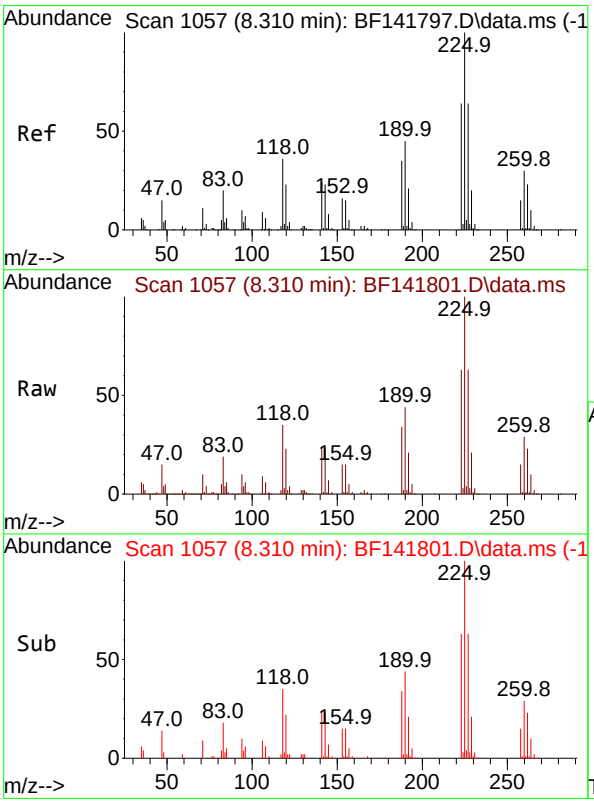
#33
4-Chloroaniline
Concen: 40.096 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

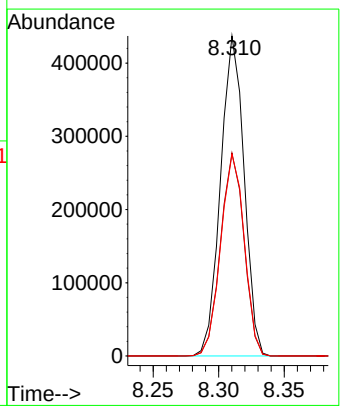


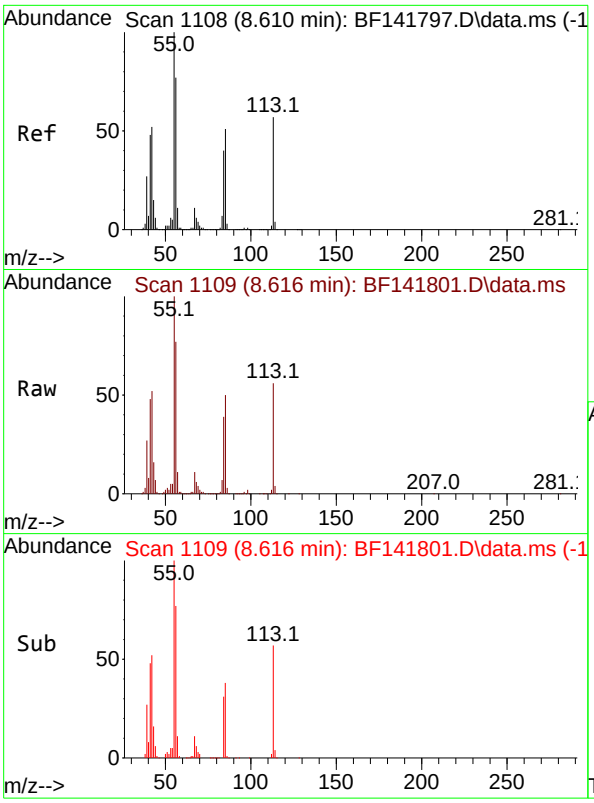


#34
Hexachlorobutadiene
Concen: 41.042 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



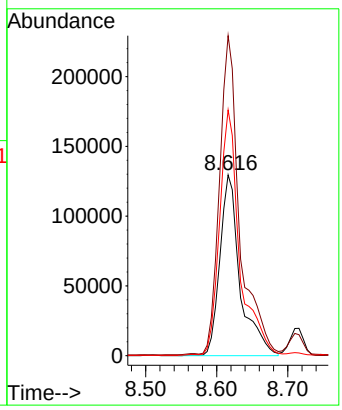


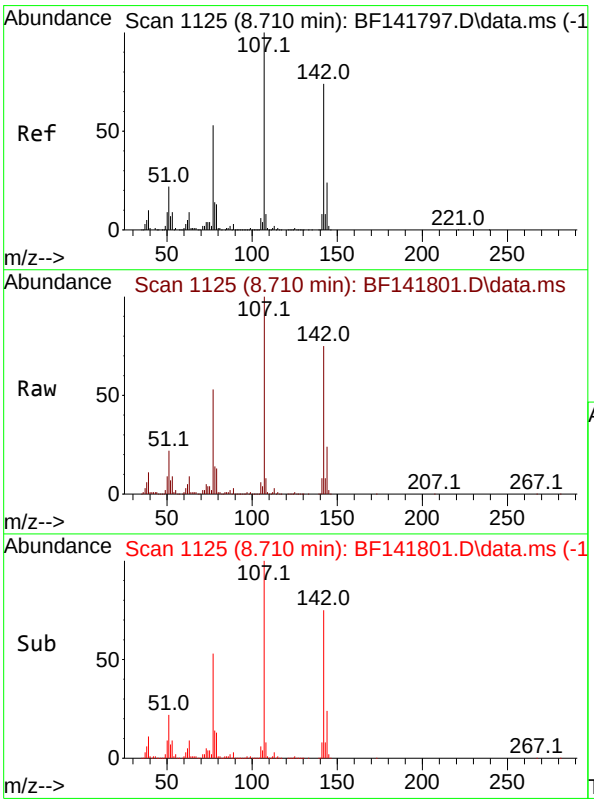
#35
Caprolactam
Concen: 42.737 ng
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

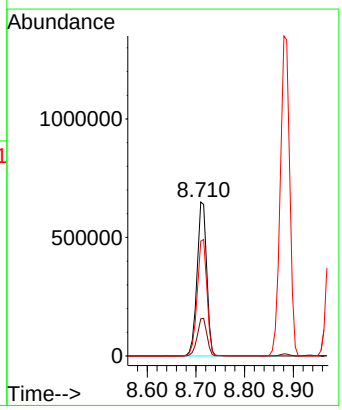


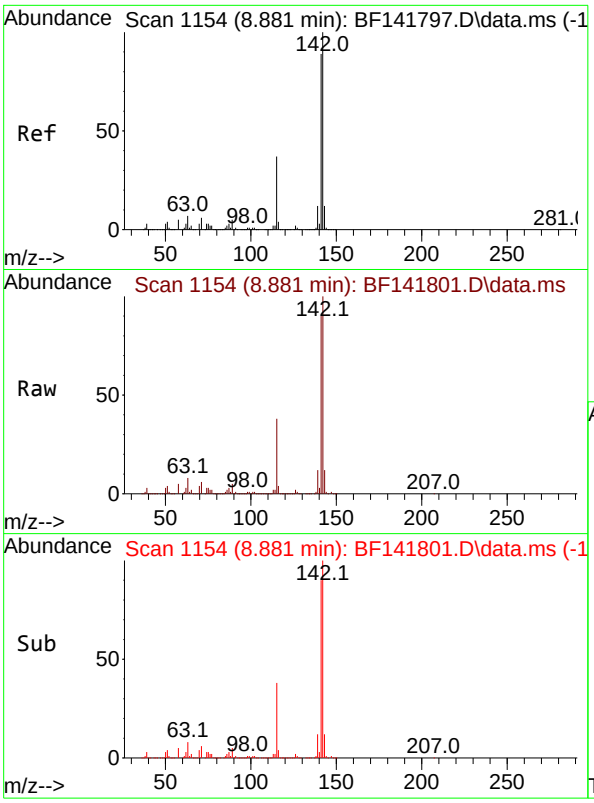


#36
4-Chloro-3-methylphenol
Concen: 41.844 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



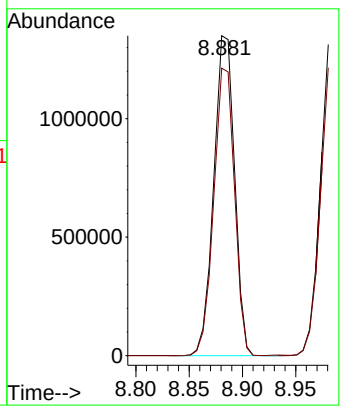


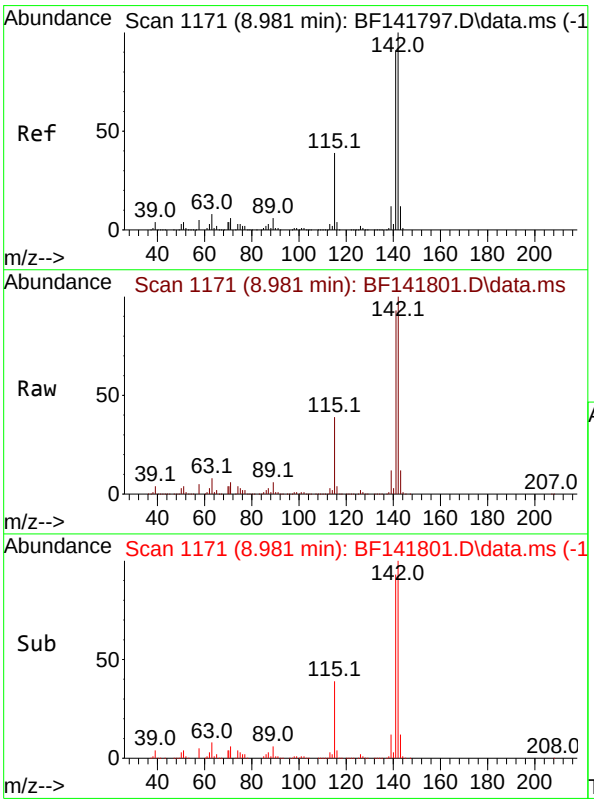
#37
2-Methylnaphthalene
Concen: 39.710 ng
RT: 8.881 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Instrument :
BNA_F
ClientSampleId :
ICVBF022725

Tgt Ion:142 Resp: 1830313

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.1	106.7

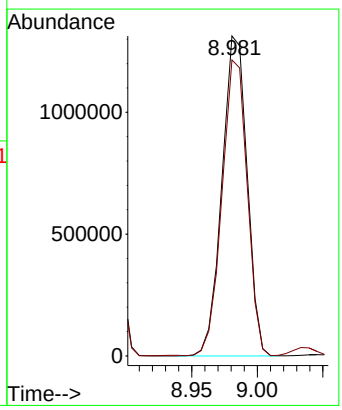


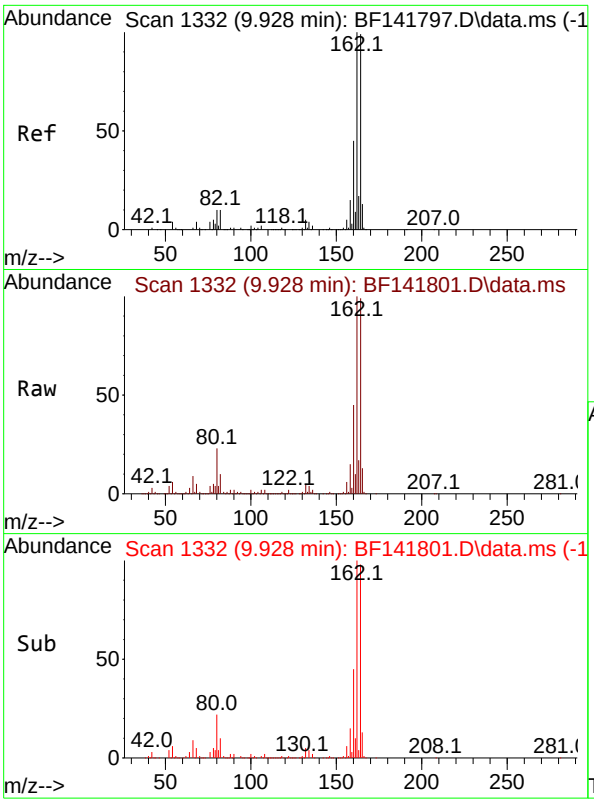


#38
1-Methylnaphthalene
Concen: 39.635 ng
RT: 8.981 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

Tgt Ion:142 Resp: 1752937

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.1	109.7



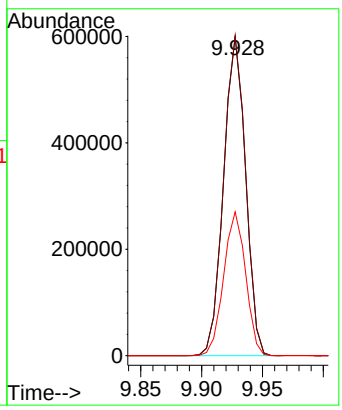


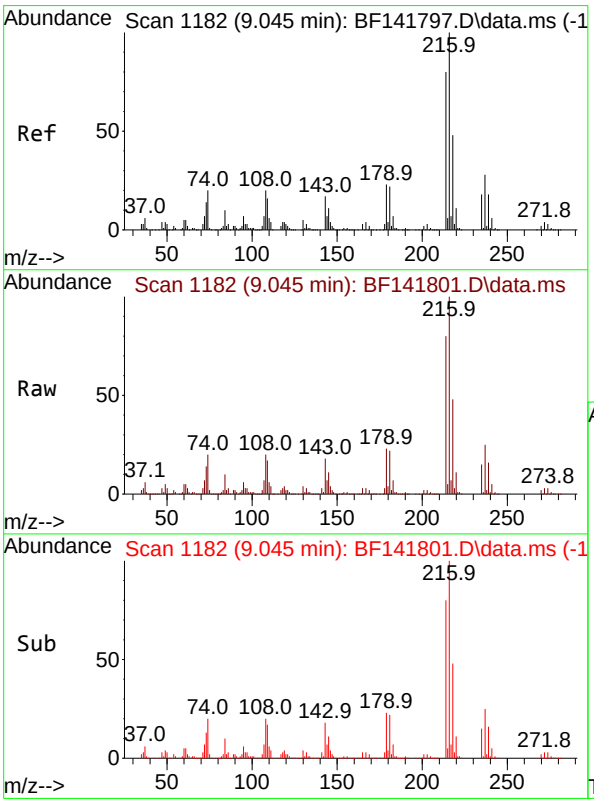
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

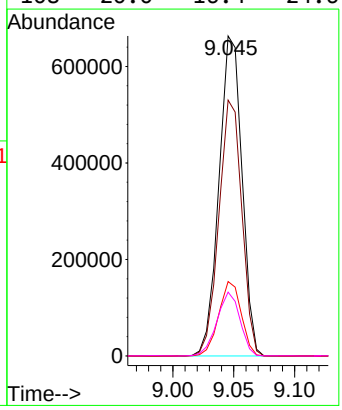


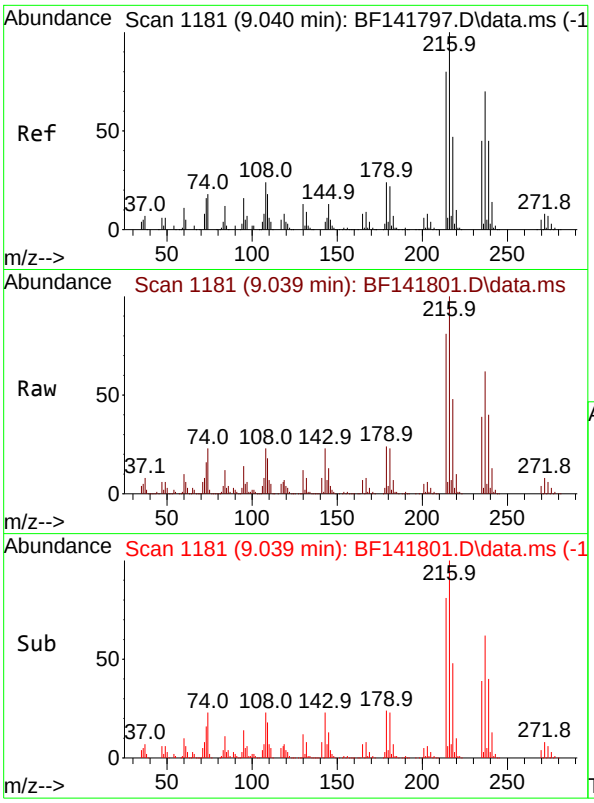


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.086 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



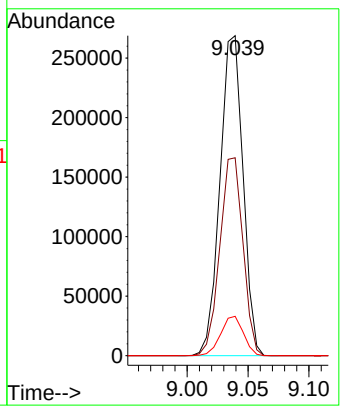


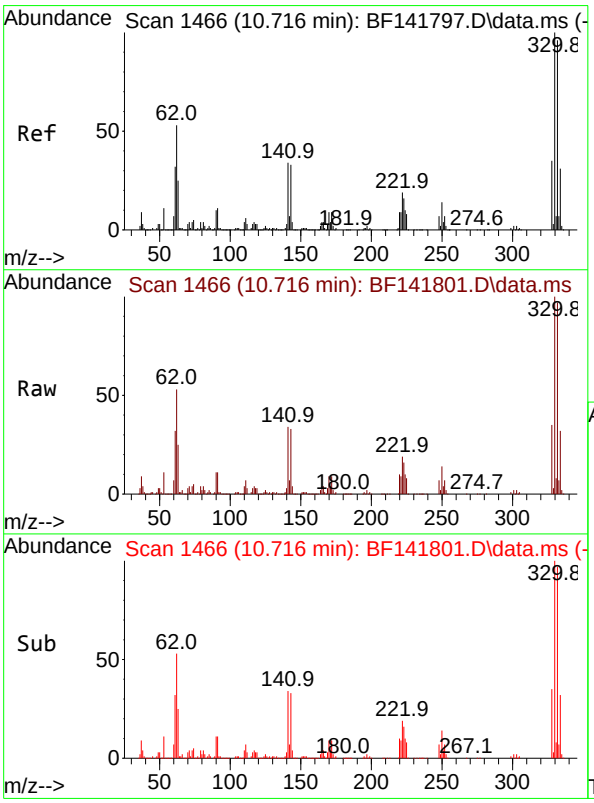
#41
Hexachlorocyclopentadiene
Concen: 38.975 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

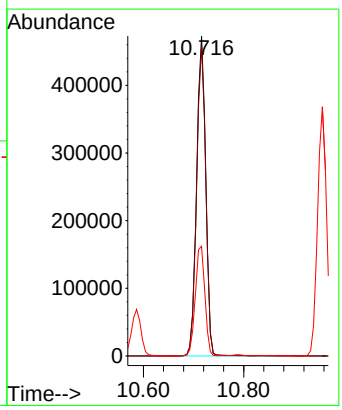


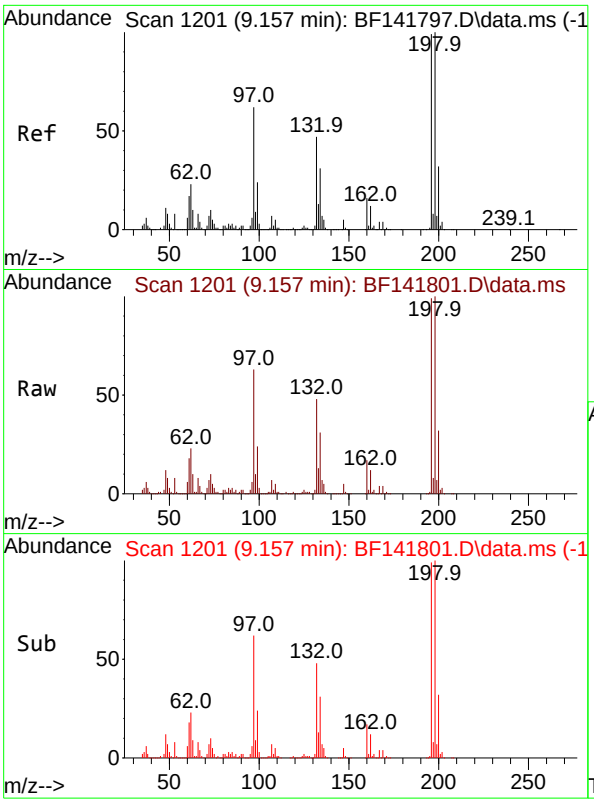


#42
2,4,6-Tribromophenol
Concen: 84.321 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



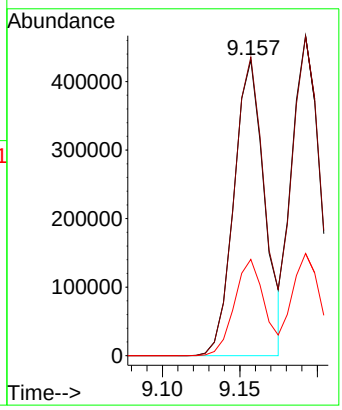


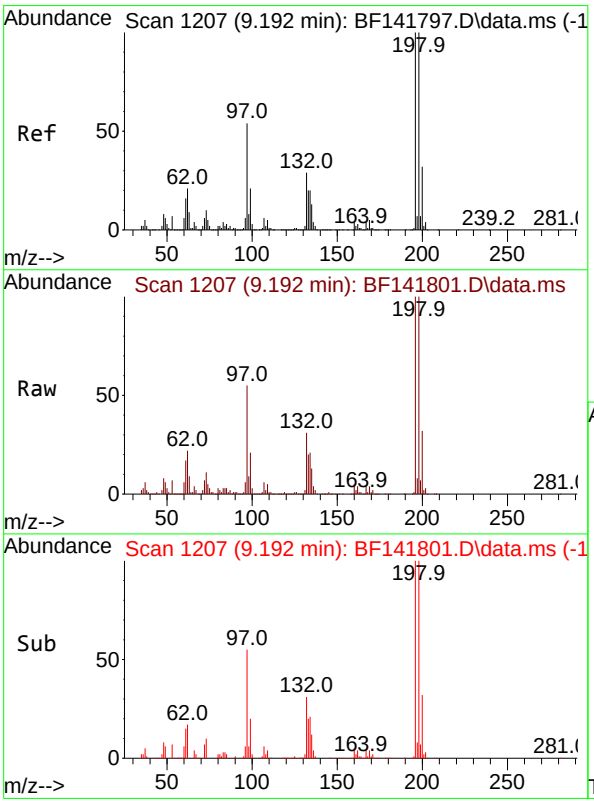
#43
2,4,6-Trichlorophenol
Concen: 42.156 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

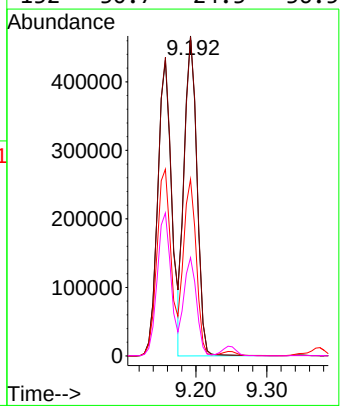


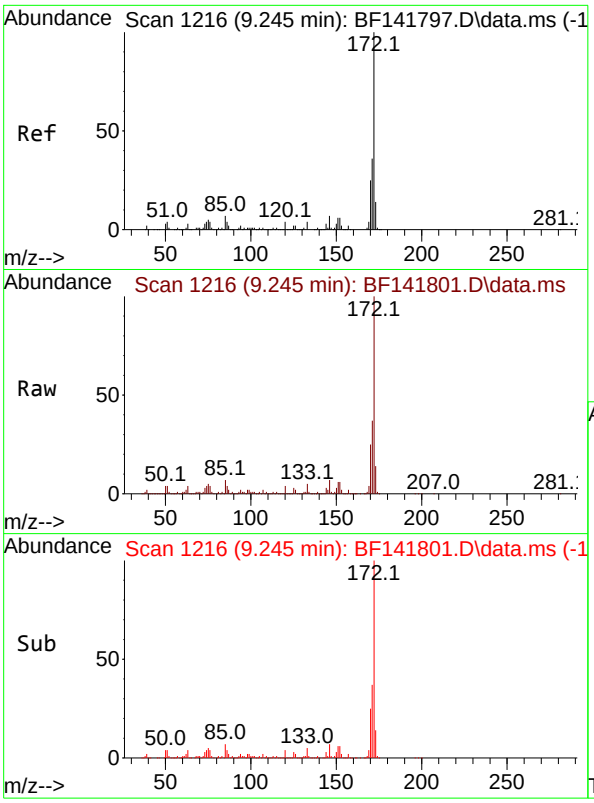


#44
2,4,5-Trichlorophenol
Concen: 41.806 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



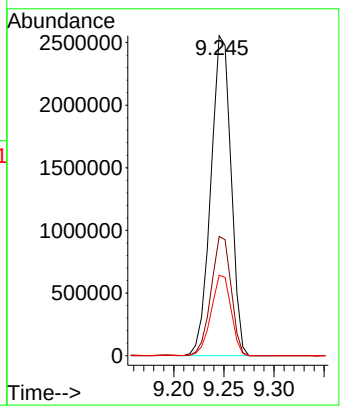


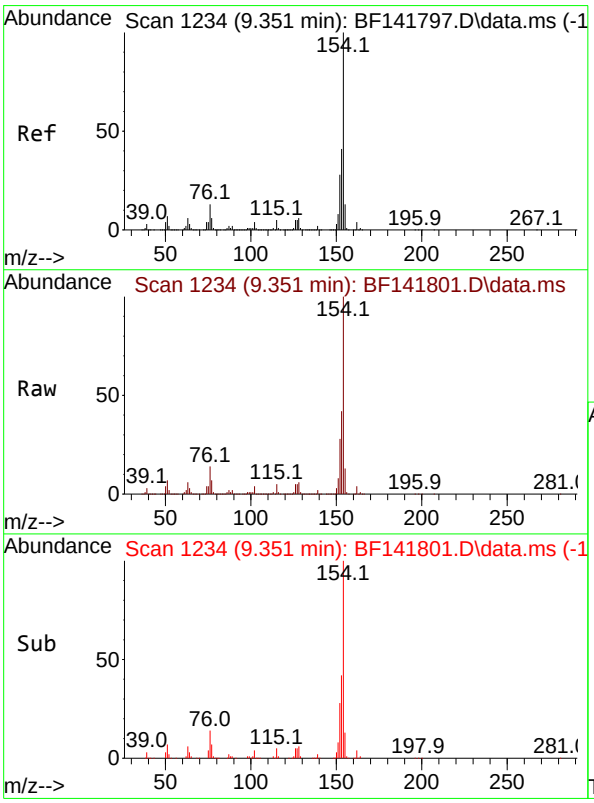
#45
2-Fluorobiphenyl
Concen: 75.957 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

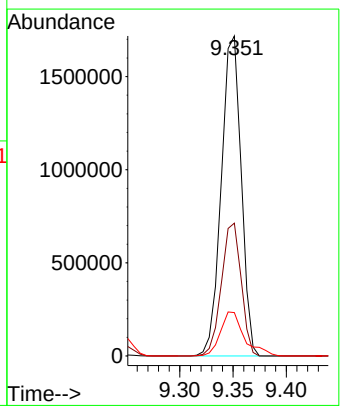


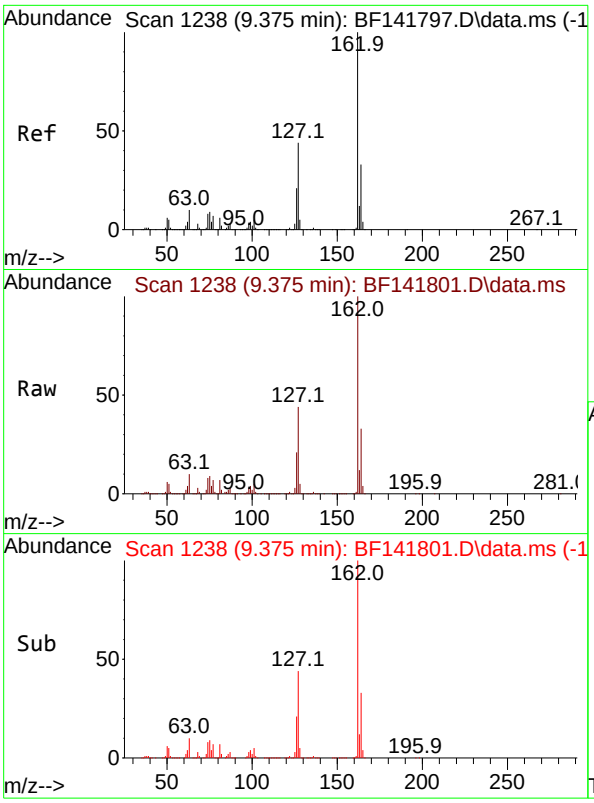


#46
1,1'-Biphenyl
Concen: 38.864 ng
RT: 9.351 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



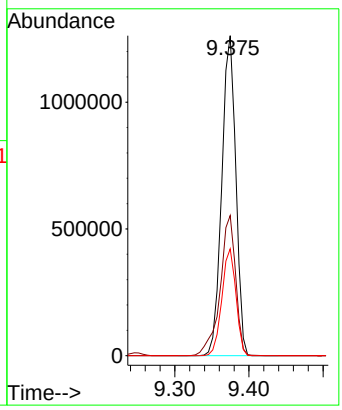


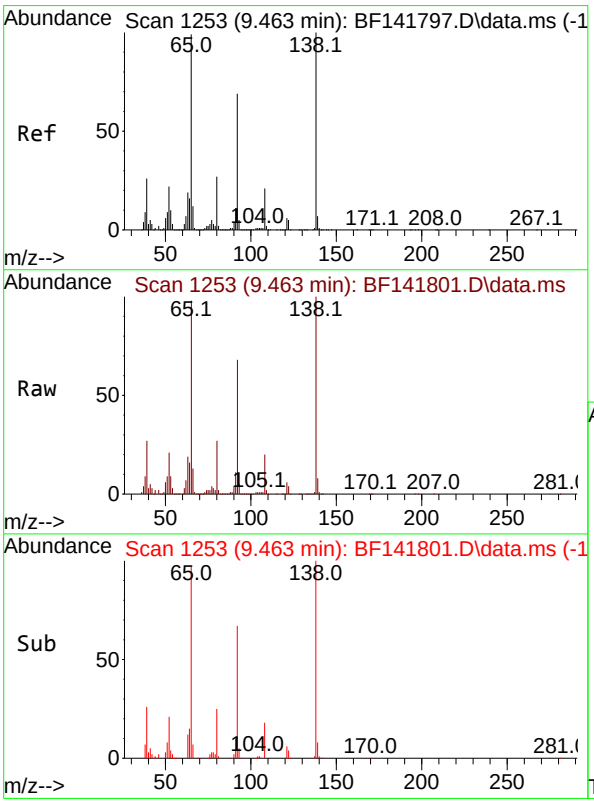
#47
2-Chloronaphthalene
Concen: 39.288 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

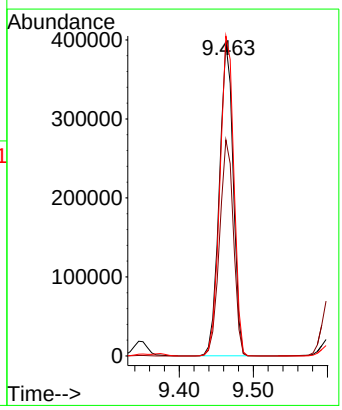


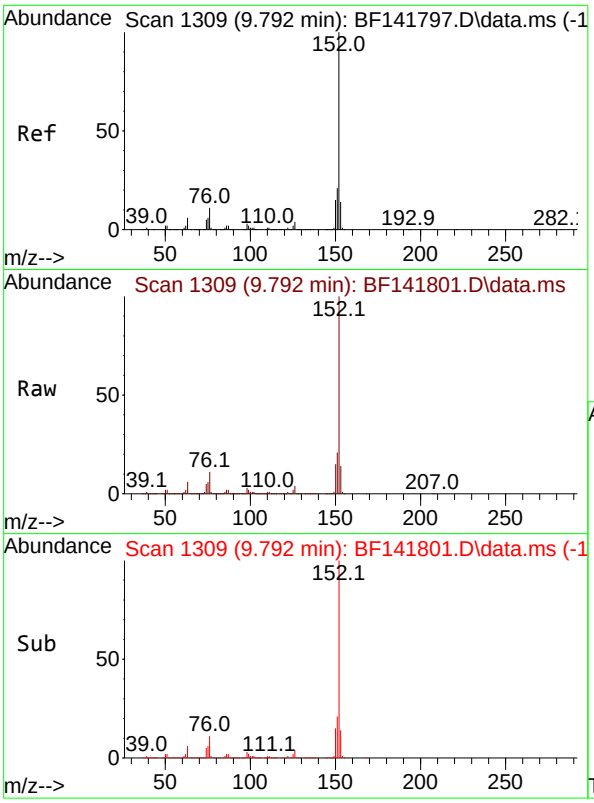


#48
2-Nitroaniline
Concen: 44.684 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



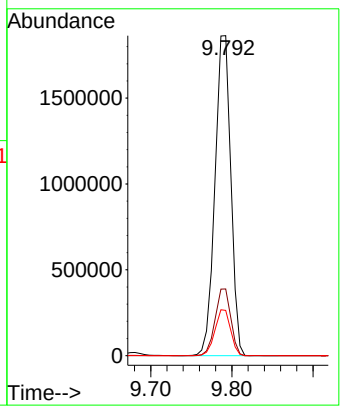


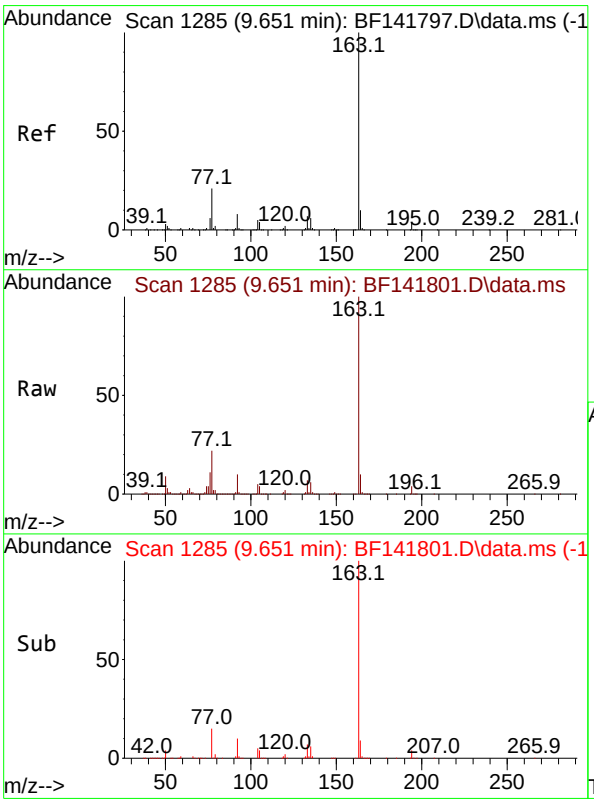
#49
Acenaphthylene
Concen: 39.907 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

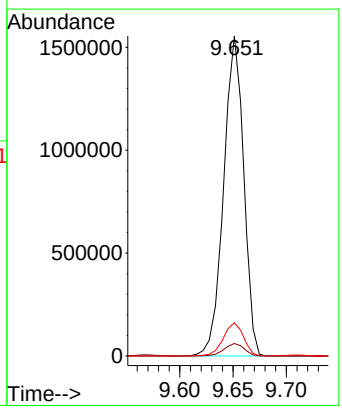


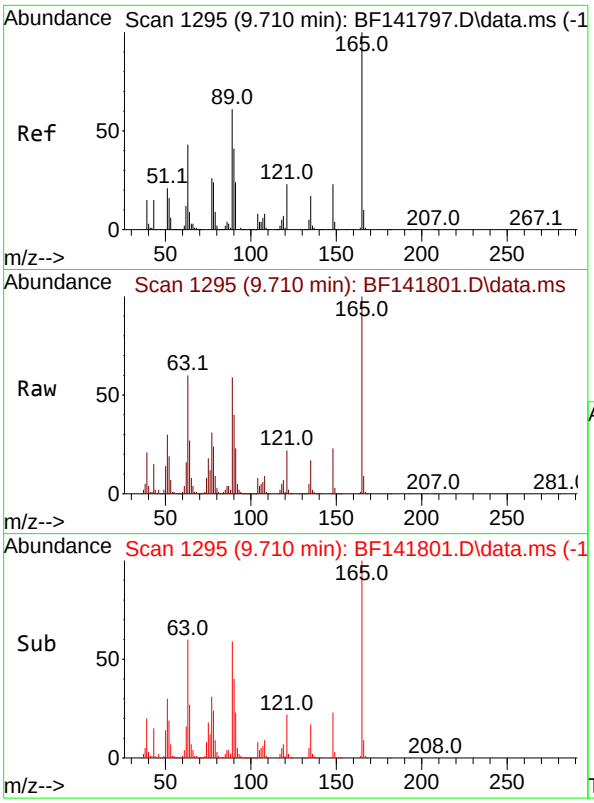


#50
Dimethylphthalate
Concen: 40.250 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



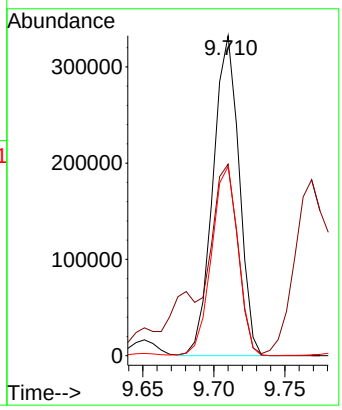


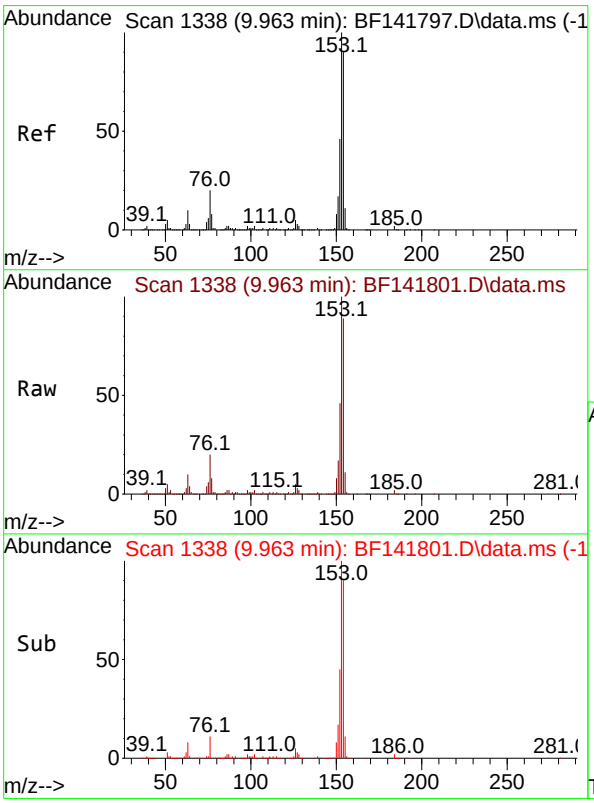
#51
2,6-Dinitrotoluene
Concen: 44.292 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

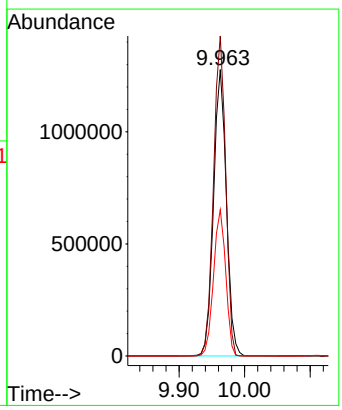


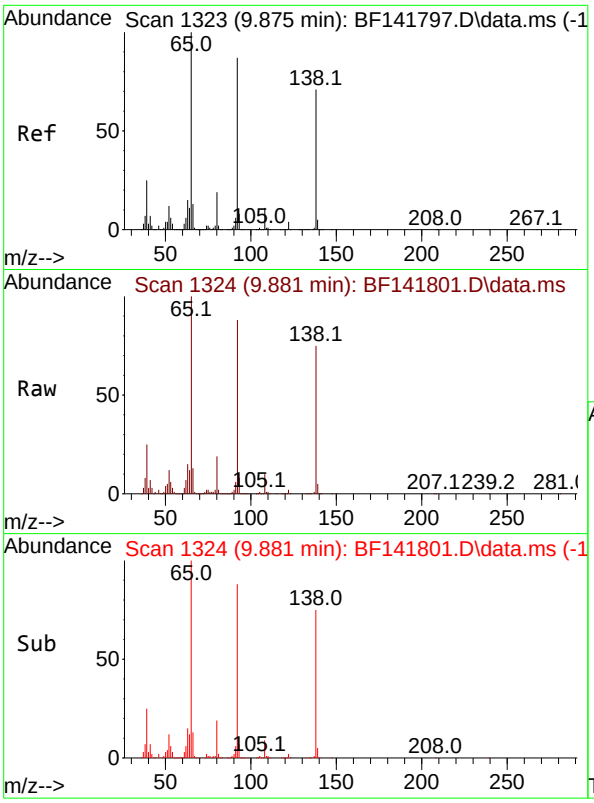


#52
Acenaphthene
Concen: 40.488 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



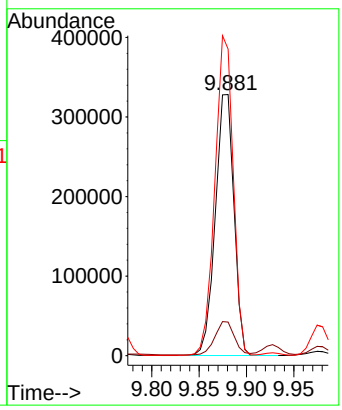


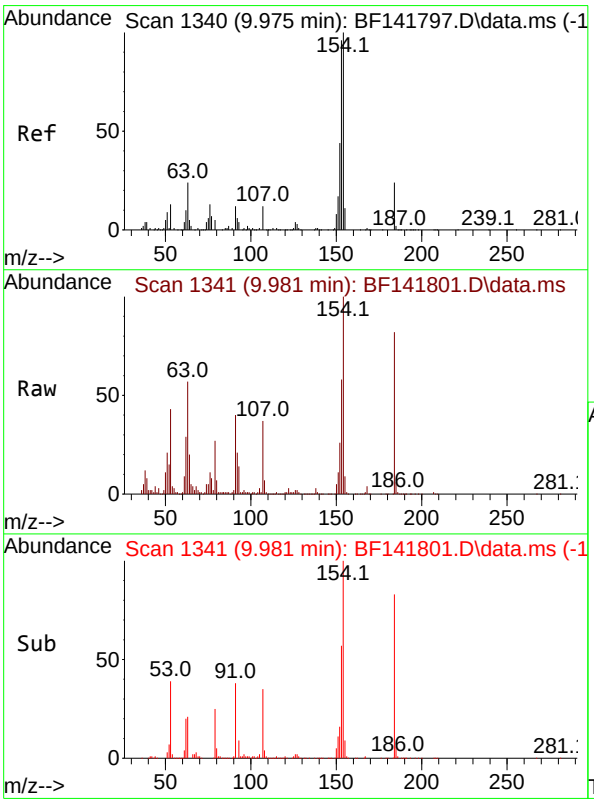
#53
3-Nitroaniline
Concen: 43.938 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

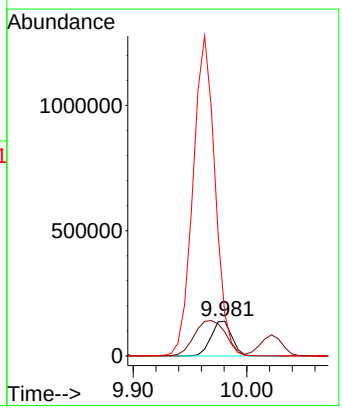


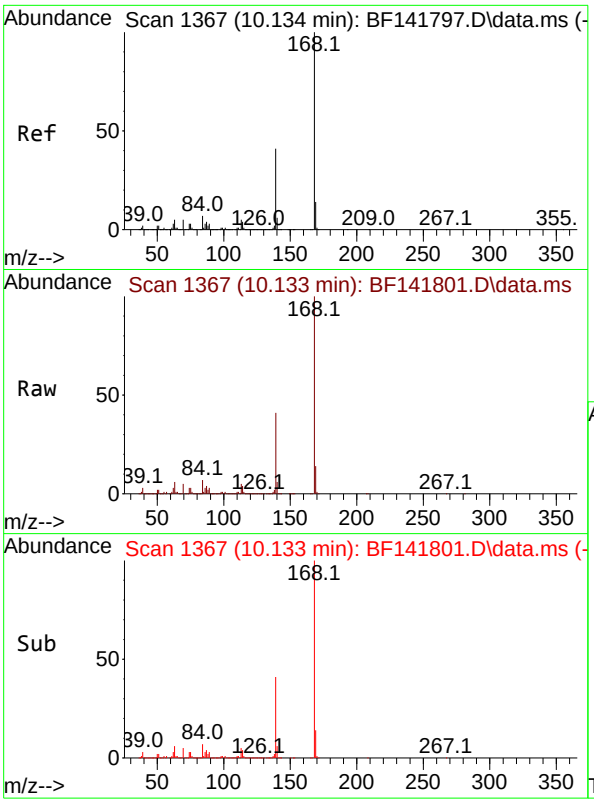


#54
2,4-Dinitrophenol
Concen: 47.494 ng
RT: 9.981 min Scan# 1341
Delta R.T. 0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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#



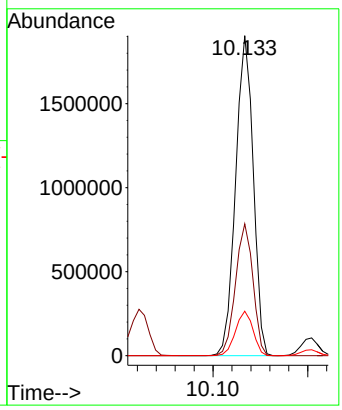


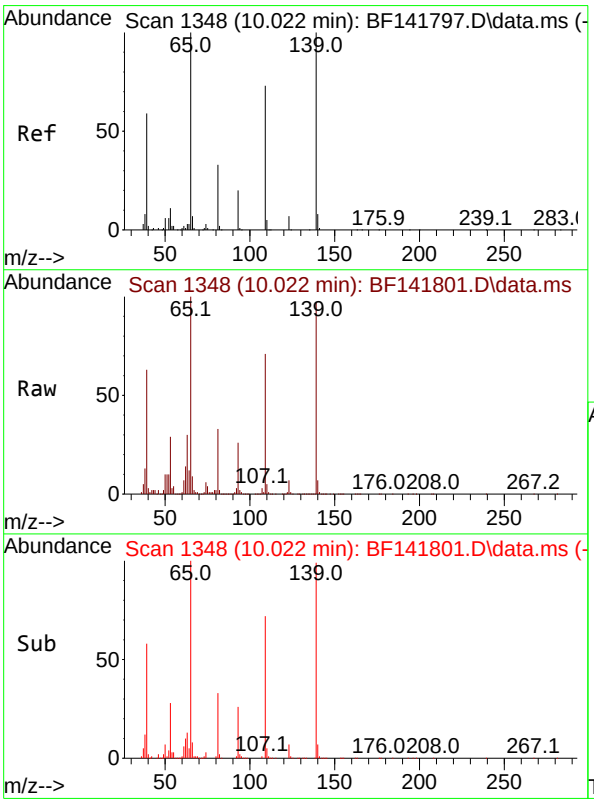
#55
Dibenzofuran
Concen: 39.391 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

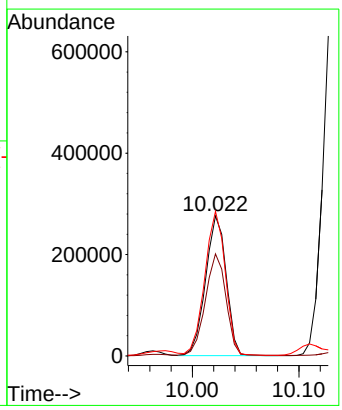


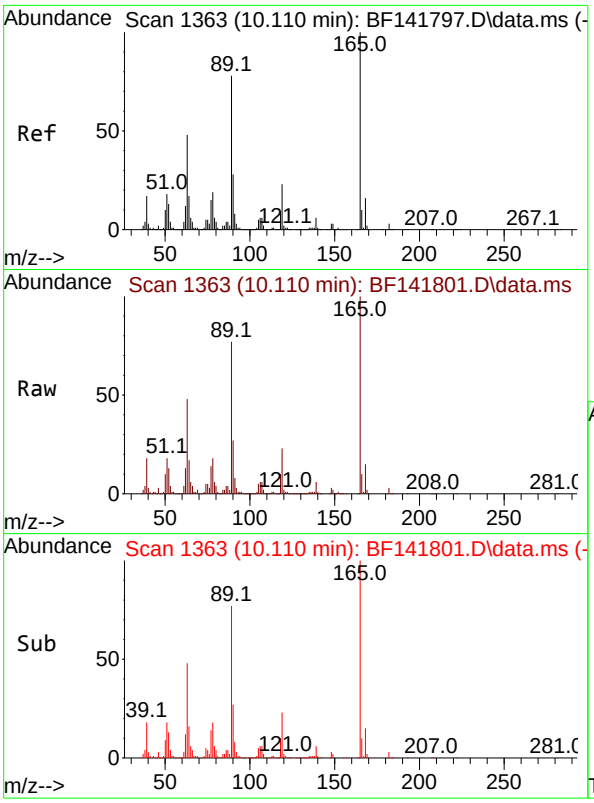


#56
4-Nitrophenol
Concen: 49.725 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



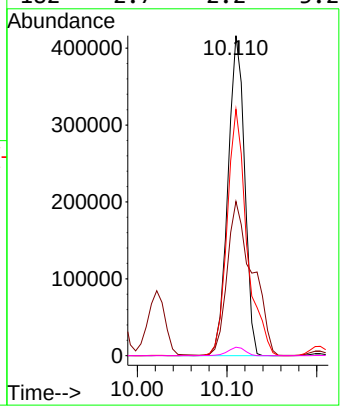


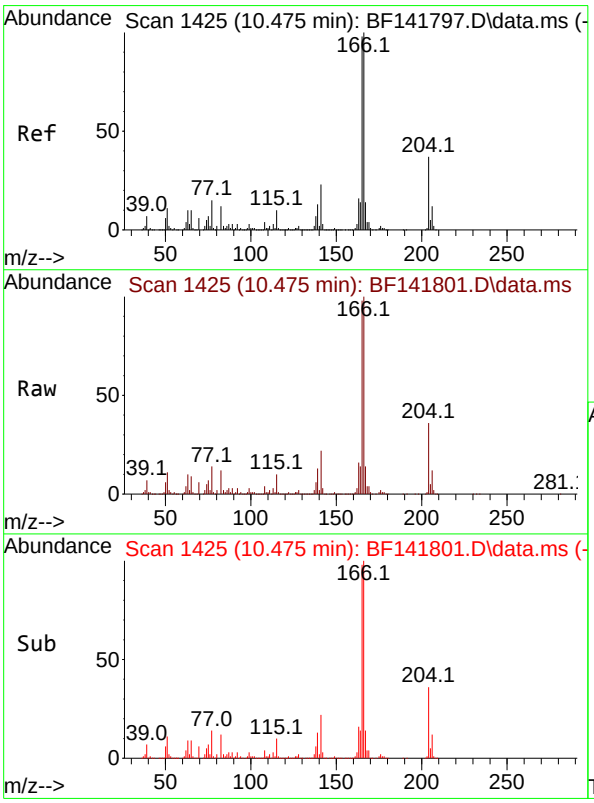
#57
2,4-Dinitrotoluene
Concen: 45.704 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

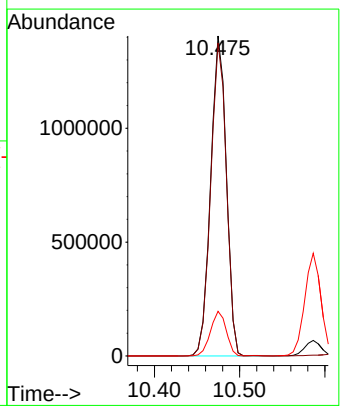


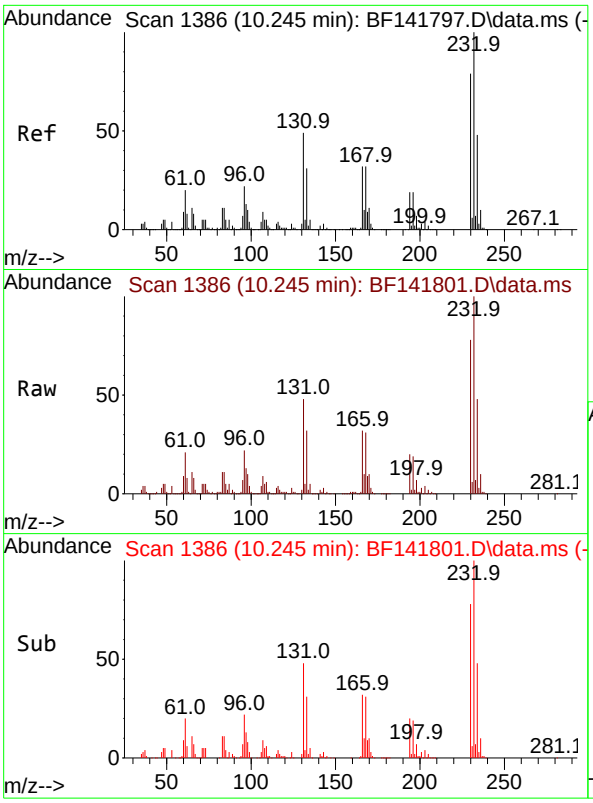


#58
Fluorene
Concen: 38.547 ng
RT: 10.475 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



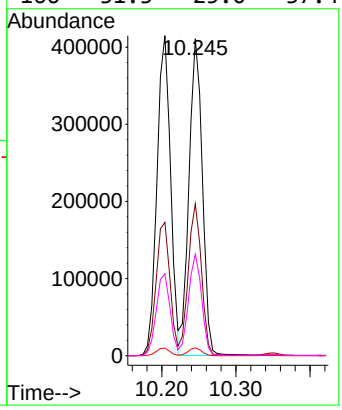


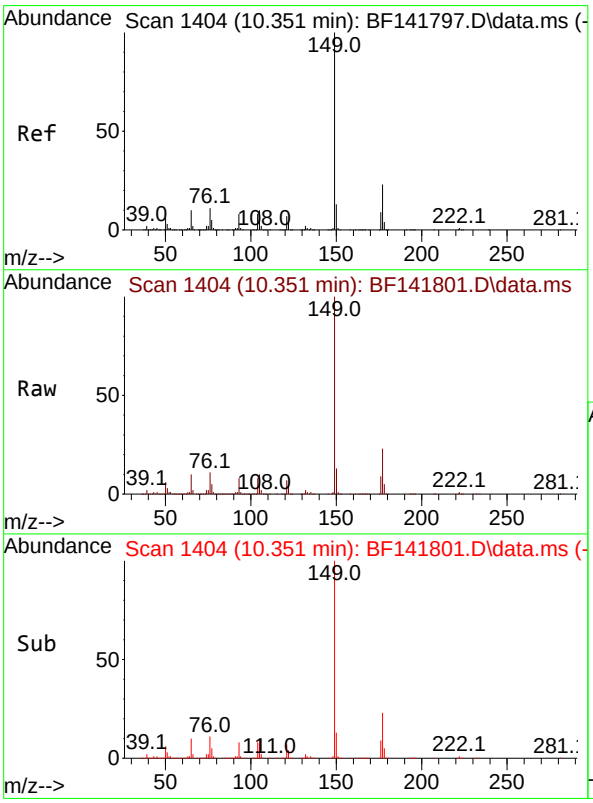
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.607 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

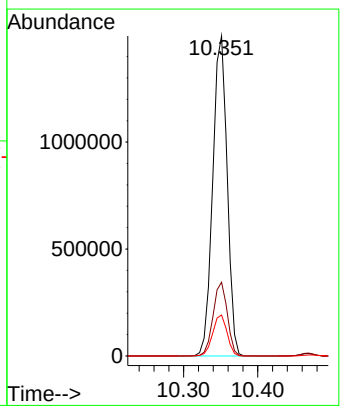


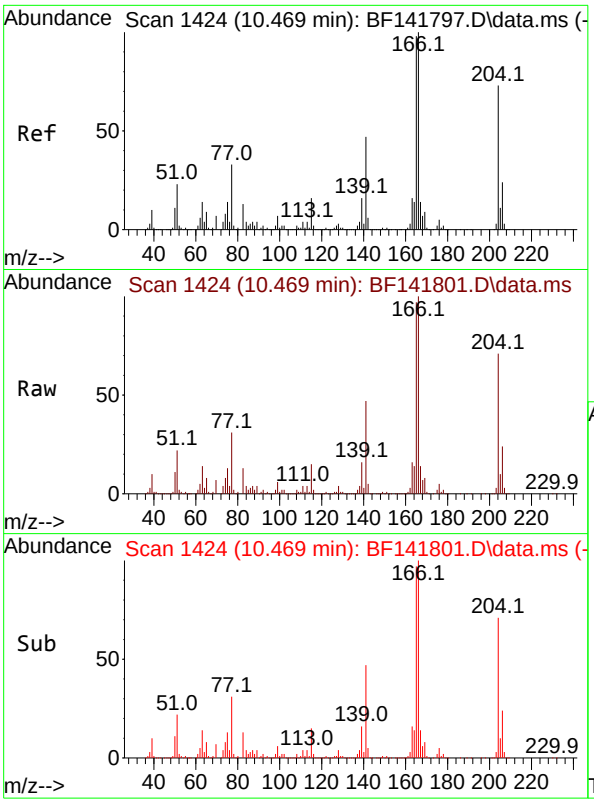


#60
Diethylphthalate
Concen: 39.896 ng
RT: 10.351 min Scan# 1404
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



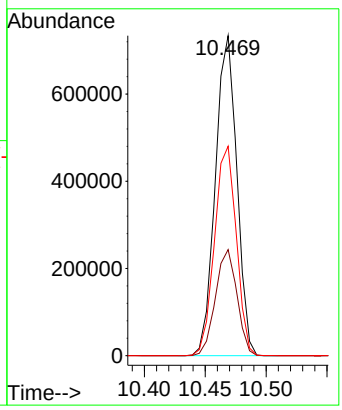


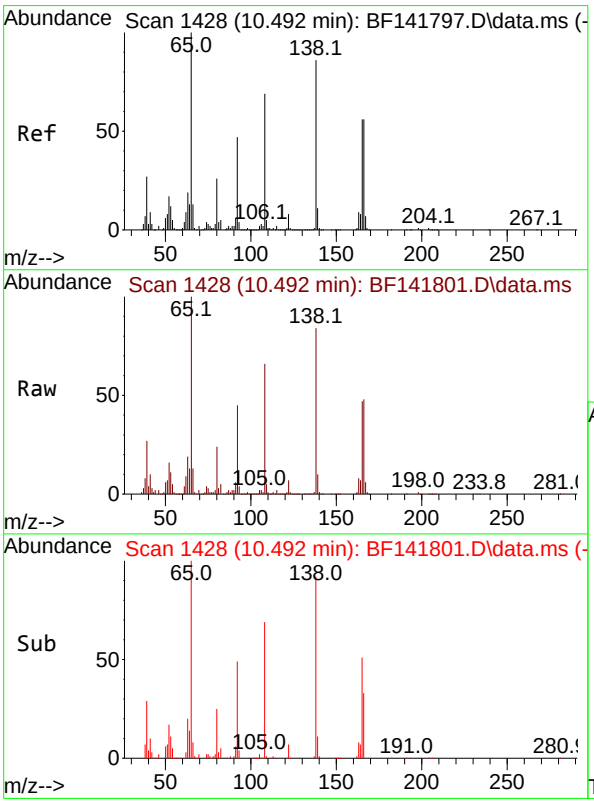
#61
4-Chlorophenyl-phenylether
Concen: 38.546 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

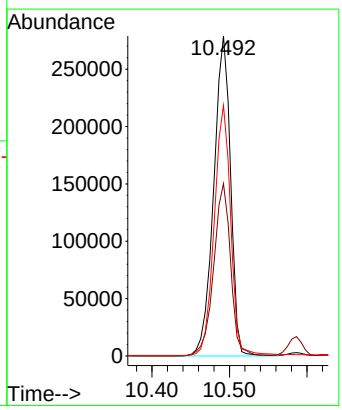


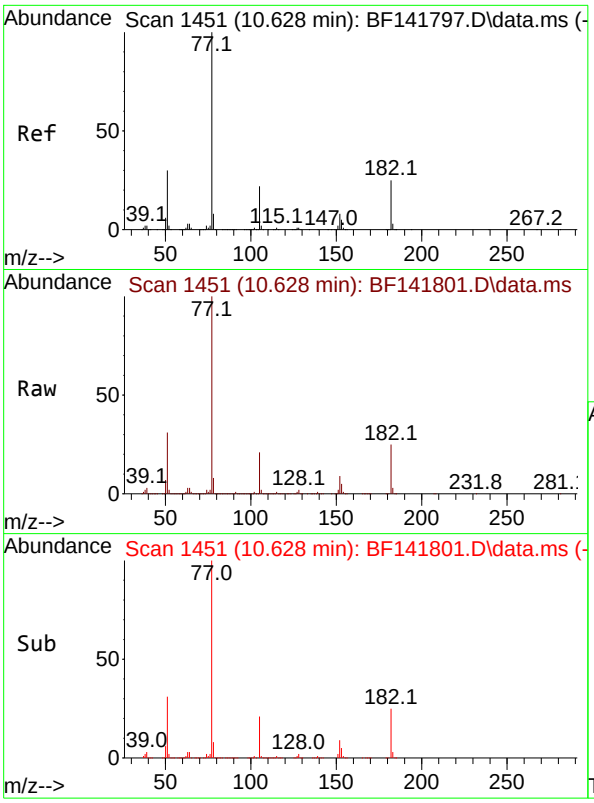


#62
4-Nitroaniline
Concen: 48.866 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



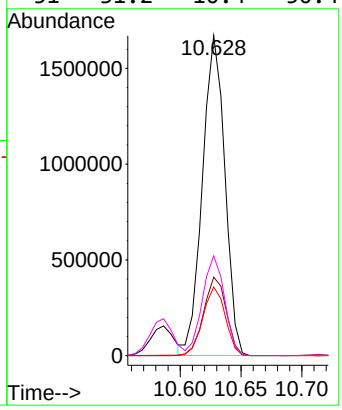


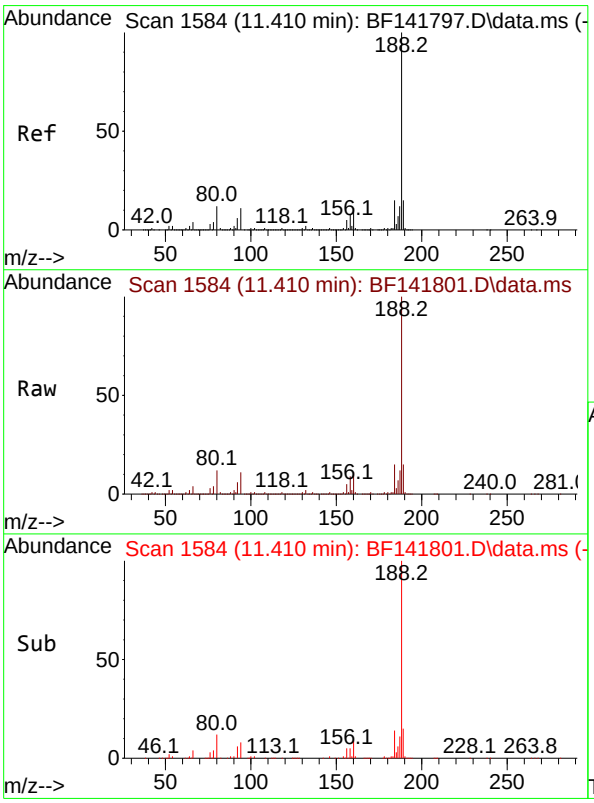
#63
Azobenzene
Concen: 40.188 ng
RT: 10.628 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

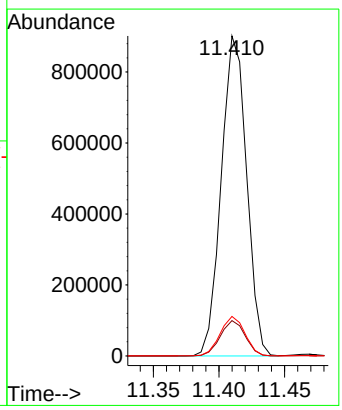


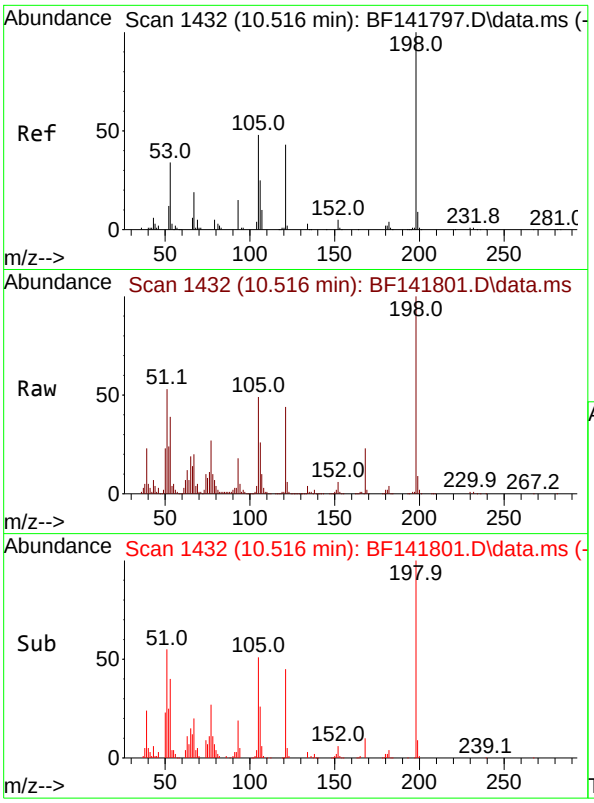


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



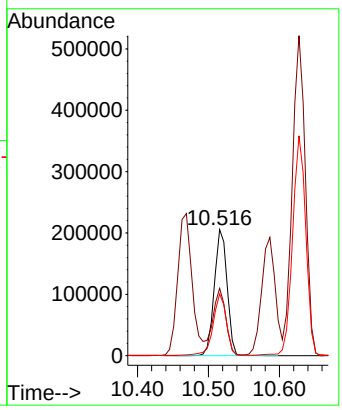


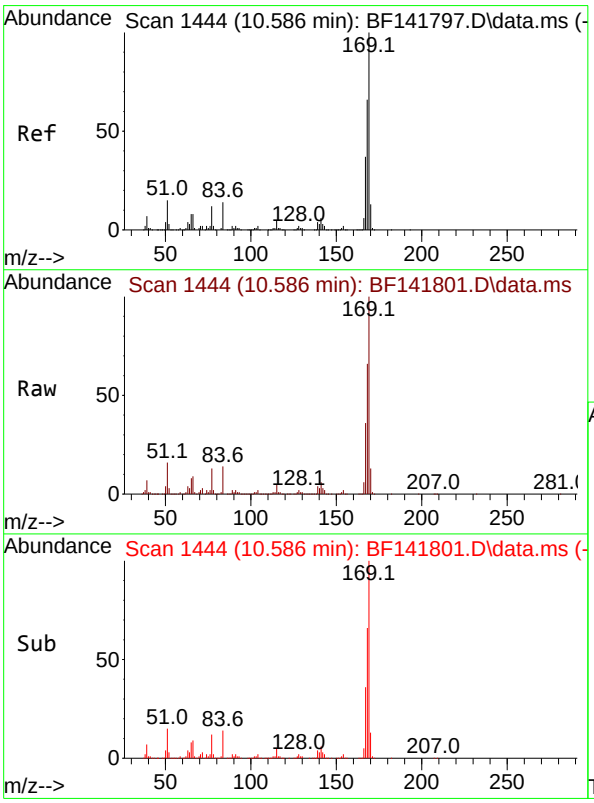
#65
4,6-Dinitro-2-methylphenol
Concen: 45.441 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

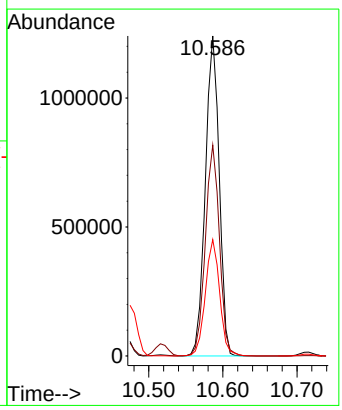


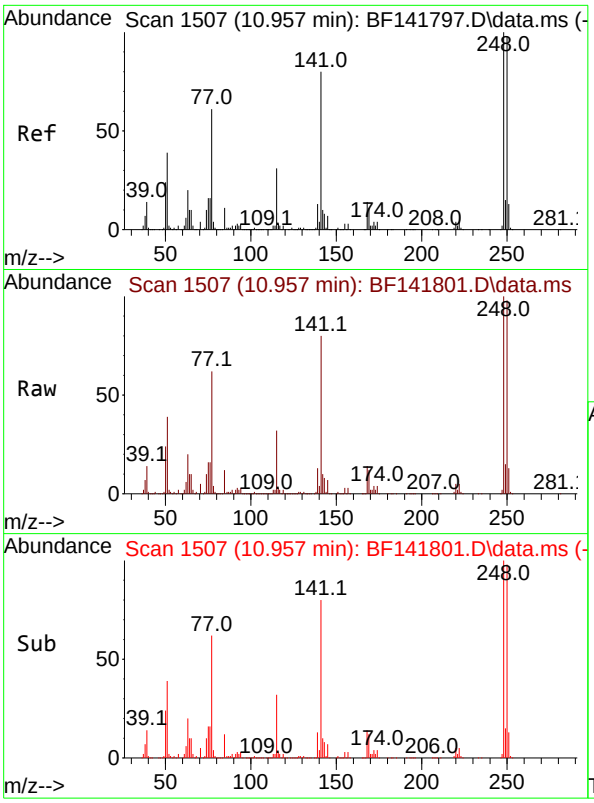


#66
n-Nitrosodiphenylamine
Concen: 40.431 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



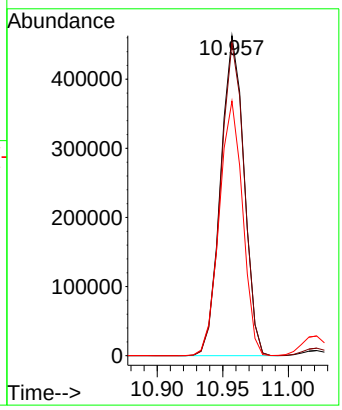


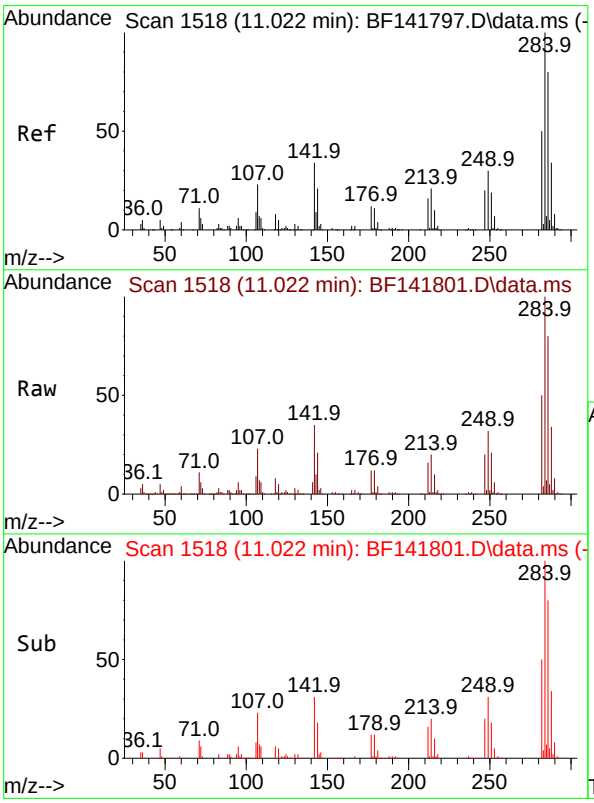
#67
4-Bromophenyl-phenylether
Concen: 40.614 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

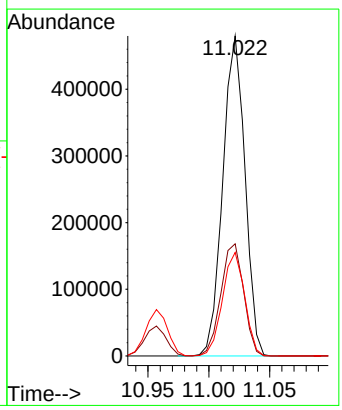


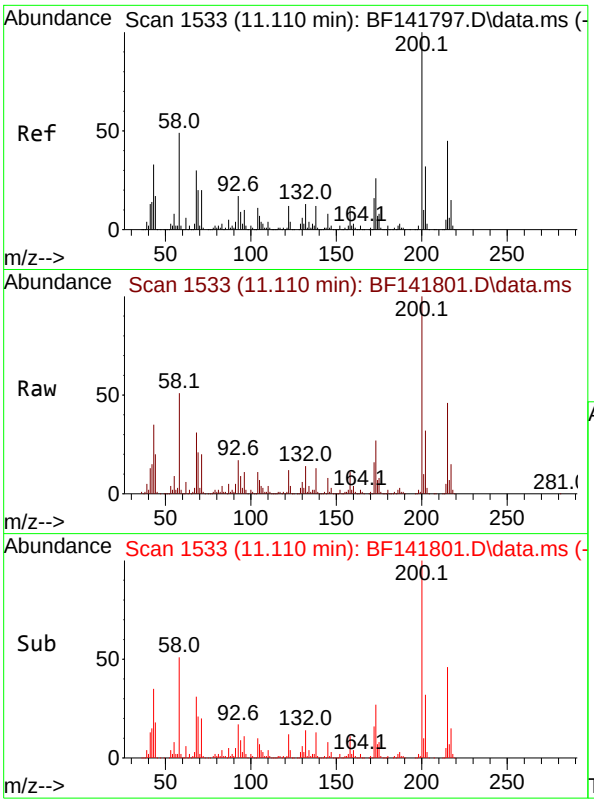


#68
Hexachlorobenzene
Concen: 40.697 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



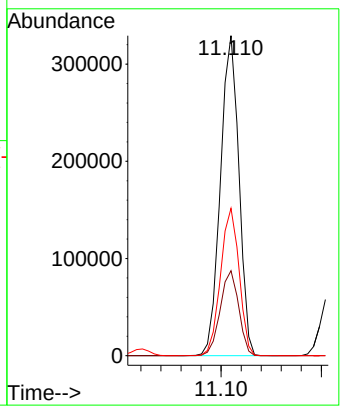


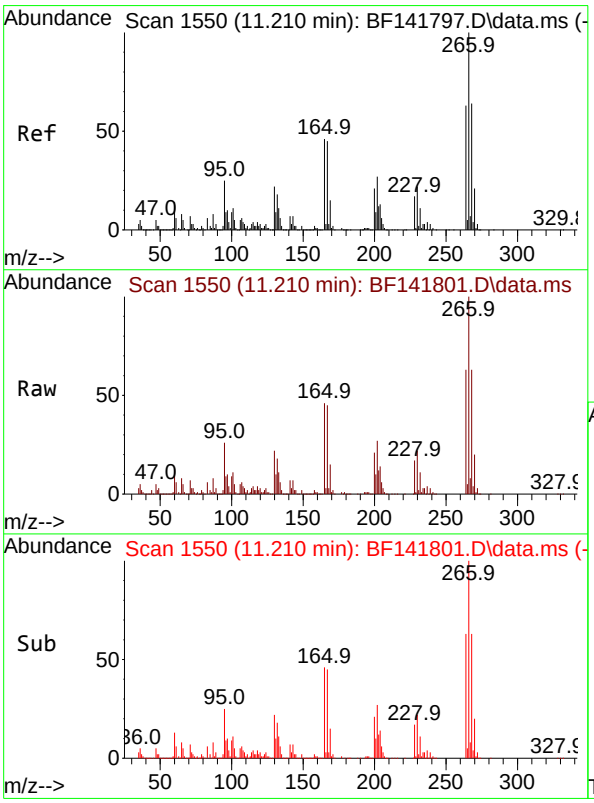
#69
Atrazine
Concen: 38.463 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

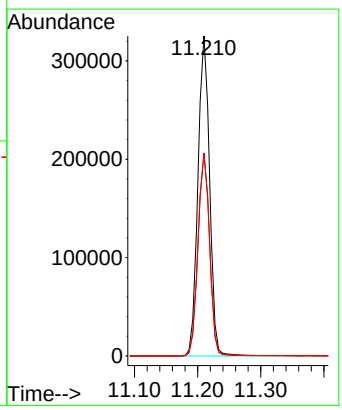


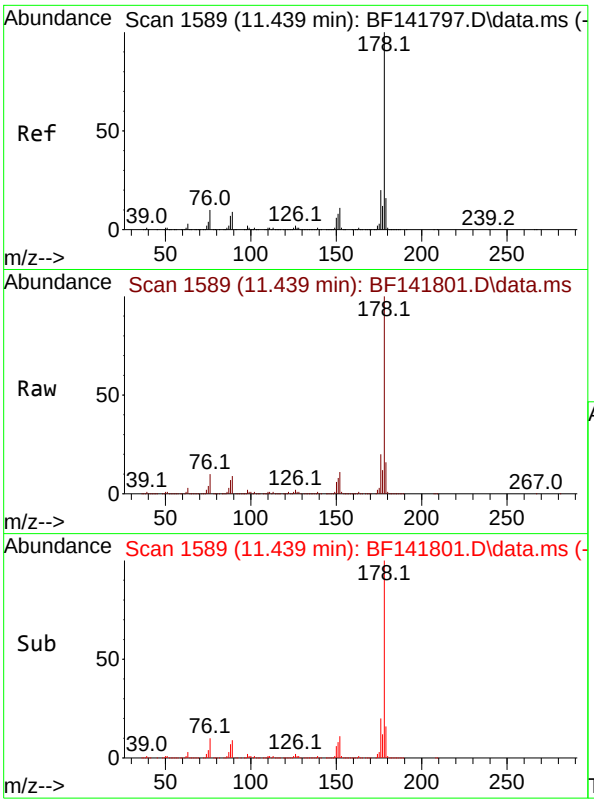


#70
Pentachlorophenol
Concen: 44.032 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



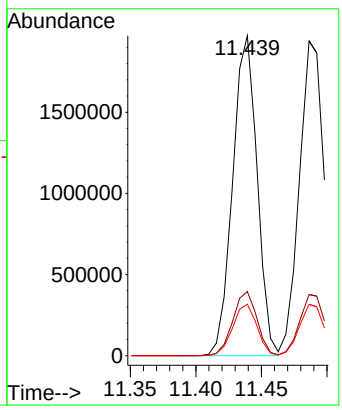


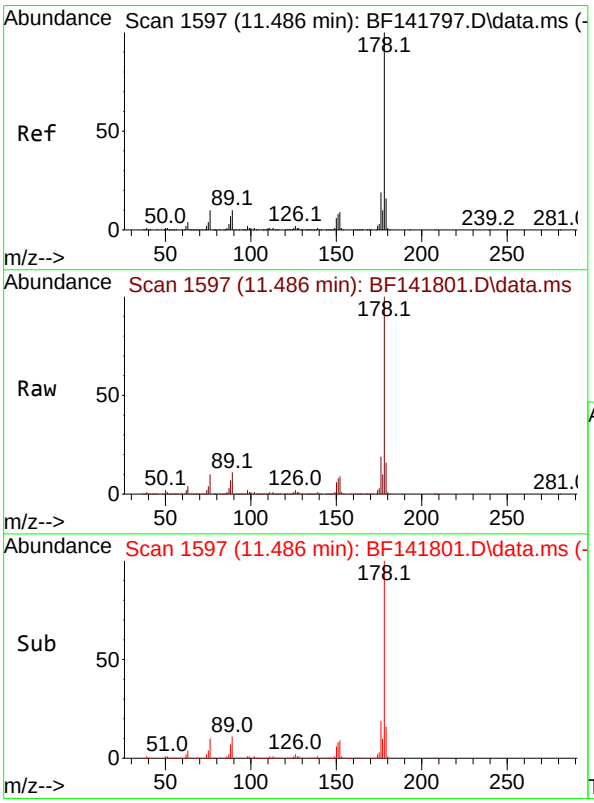
#71
Phenanthrene
Concen: 39.475 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

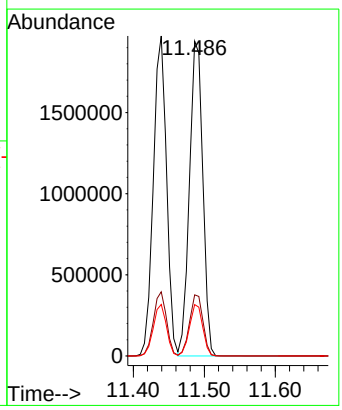


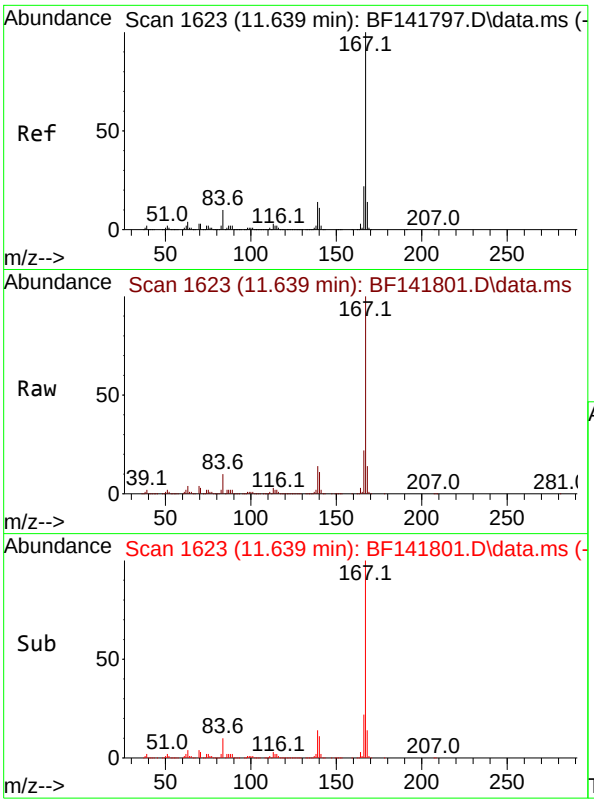


#72
Anthracene
Concen: 39.126 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



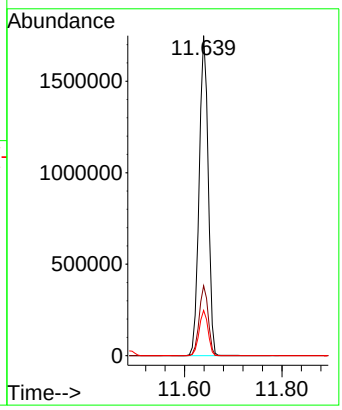


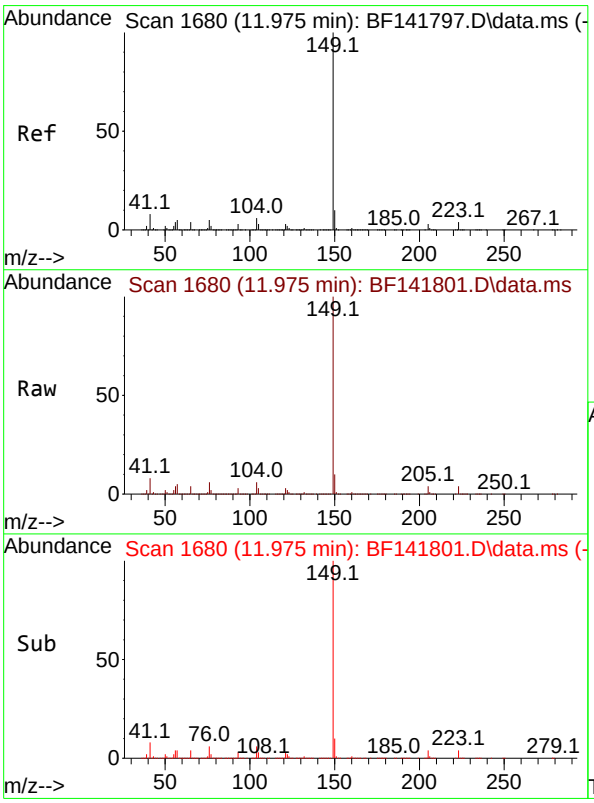
#73
Carbazole
Concen: 39.317 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

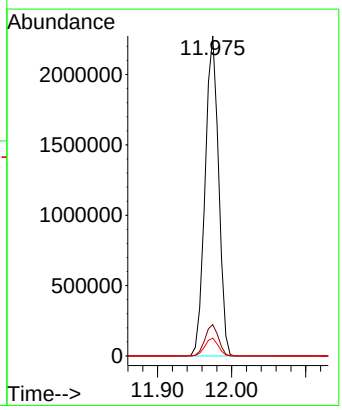


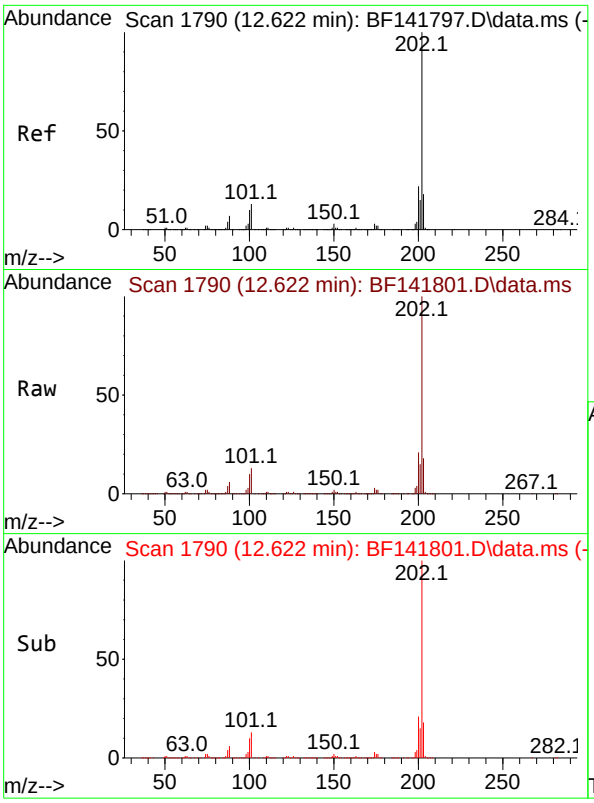


#74
Di-n-butylphthalate
Concen: 39.540 ng
RT: 11.975 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



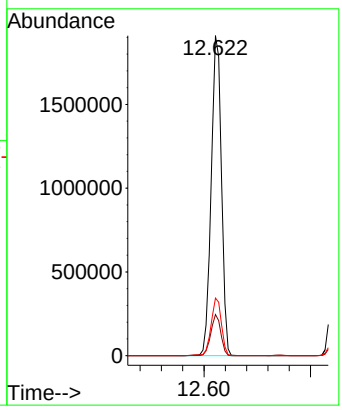


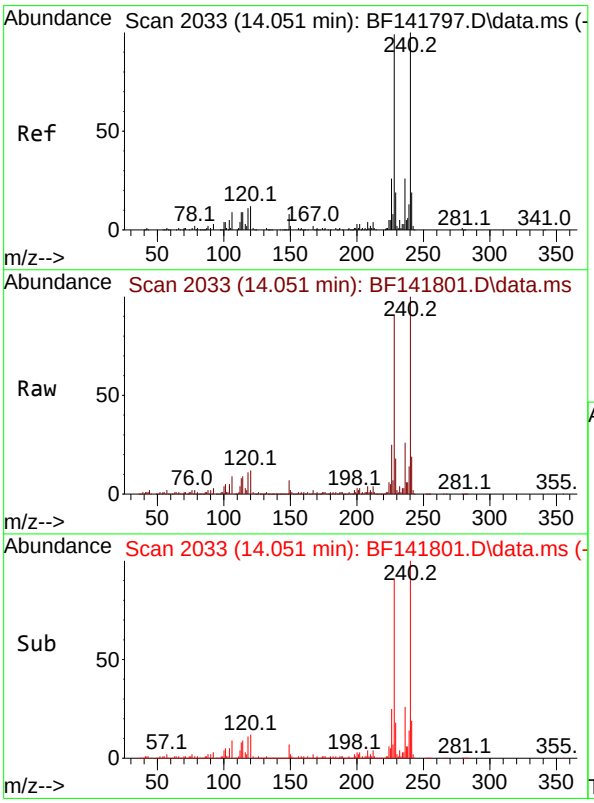
#75
Fluoranthene
Concen: 38.448 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

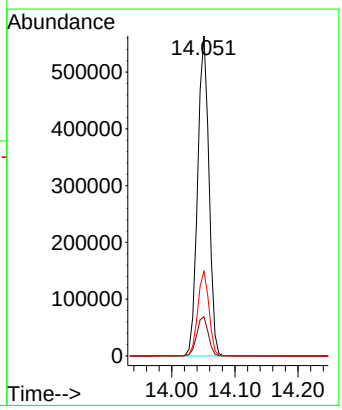


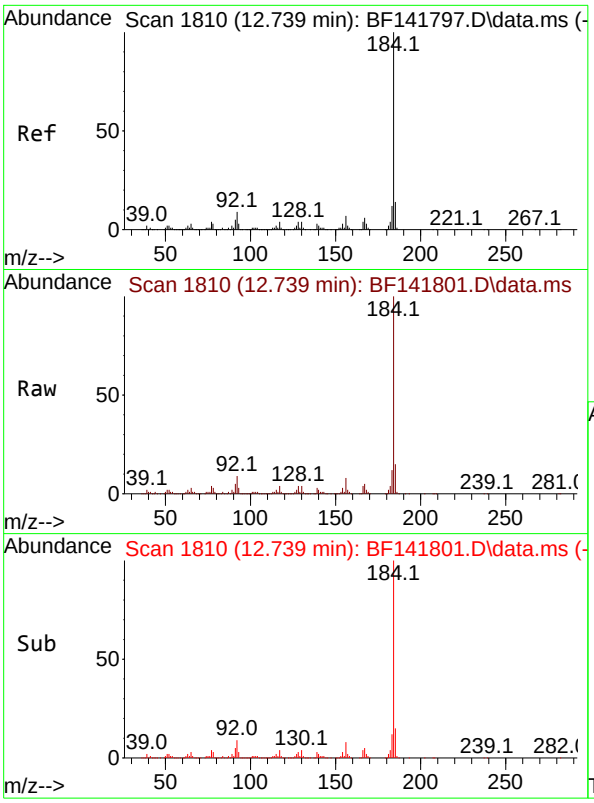


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



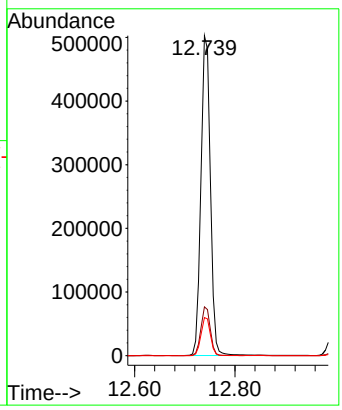


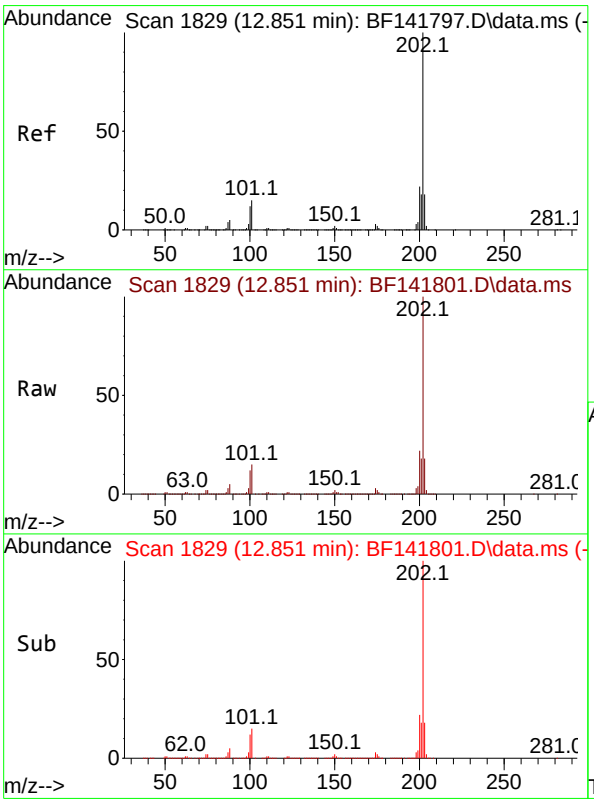
#77
Benzidine
Concen: 74.959 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

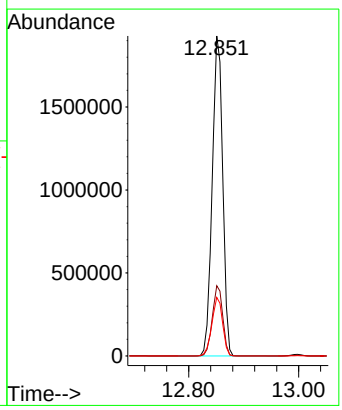


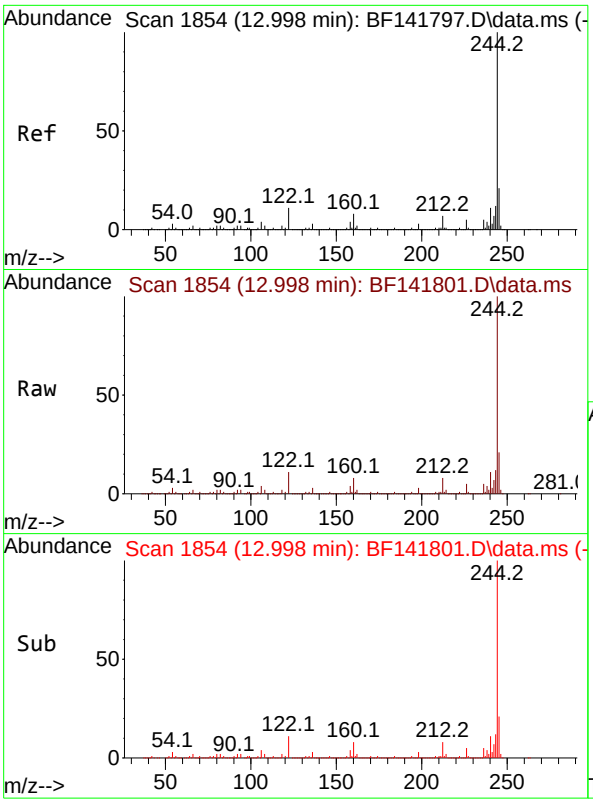


#78
Pyrene
Concen: 42.307 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



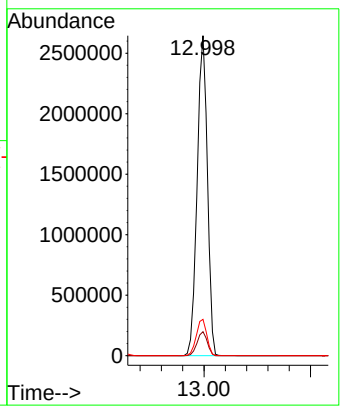


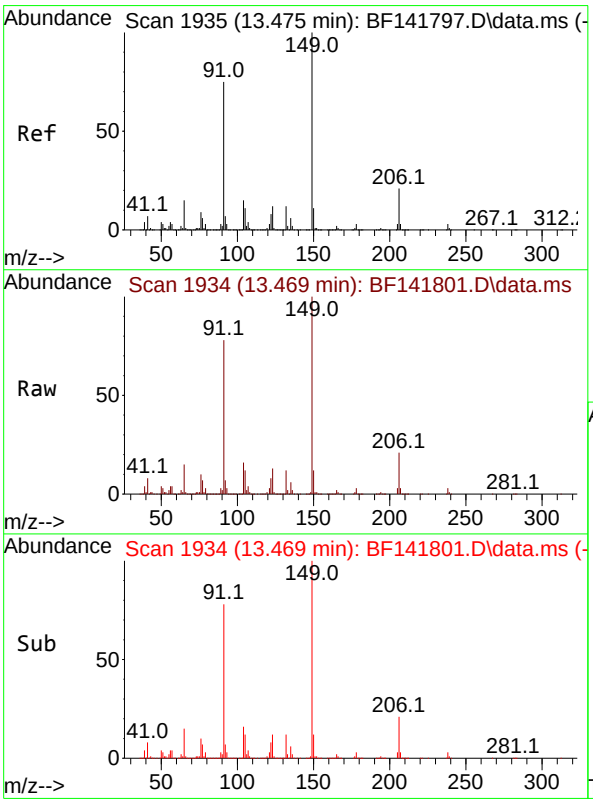
#79
Terphenyl-d14
Concen: 82.060 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

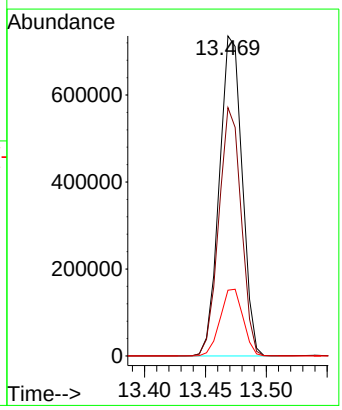


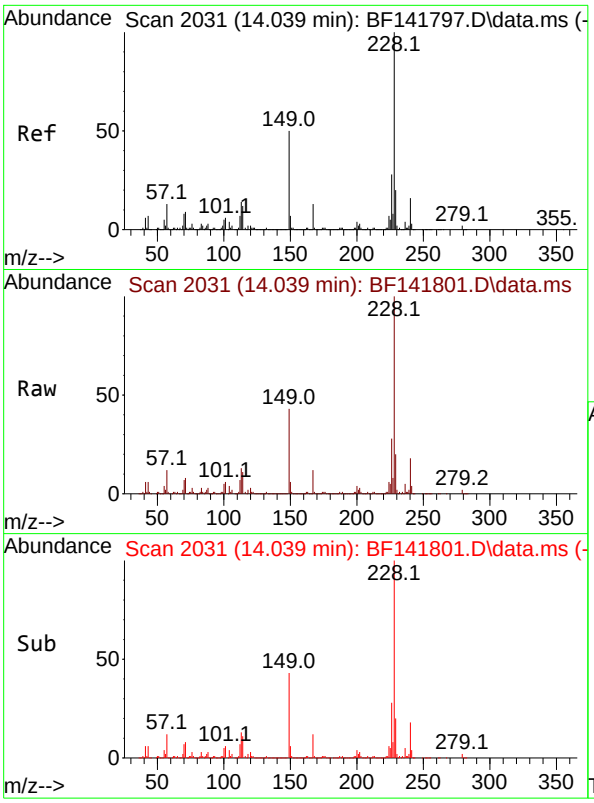


#80
Butylbenzylphthalate
Concen: 43.655 ng
RT: 13.469 min Scan# 1934
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



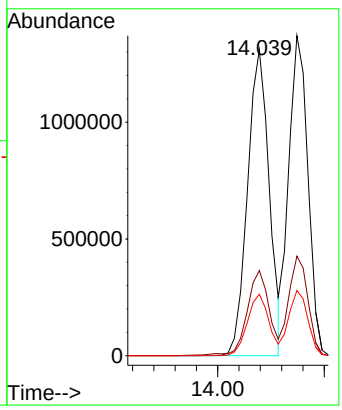


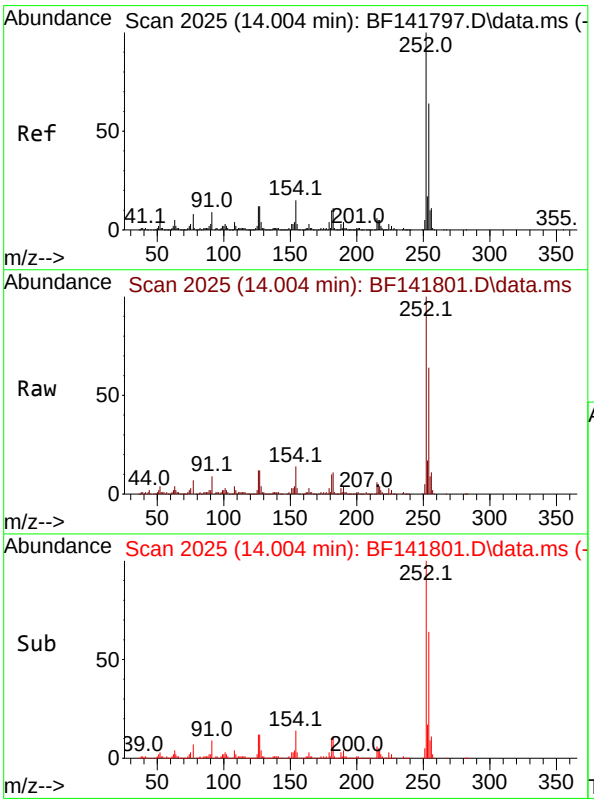
#81
Benzo(a)anthracene
Concen: 40.236 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

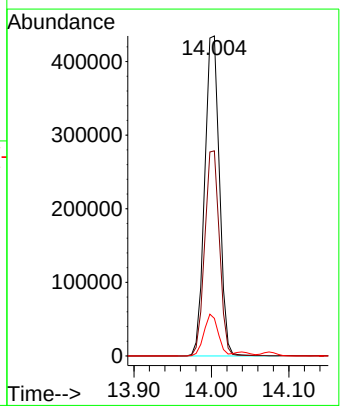


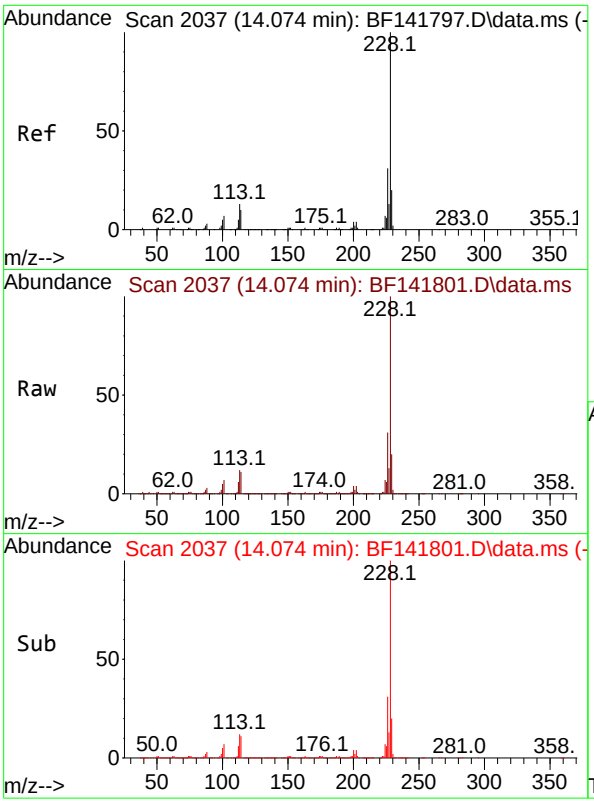


#82
3,3'-Dichlorobenzidine
Concen: 43.392 ng
RT: 14.004 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



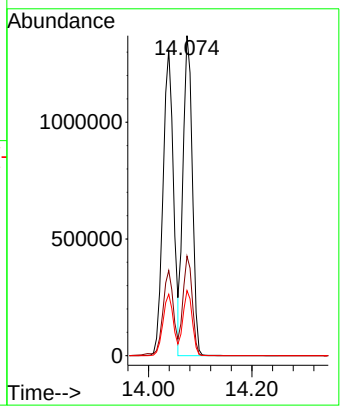


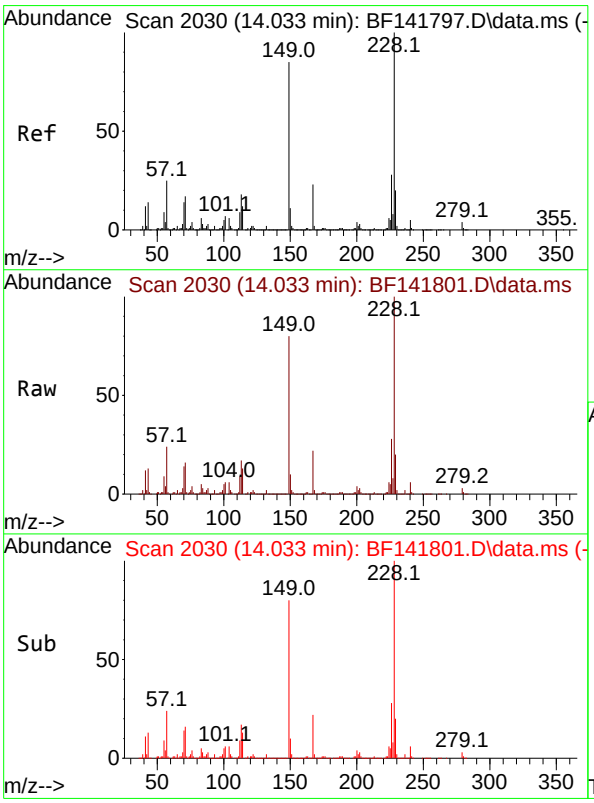
#83
Chrysene
Concen: 40.491 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

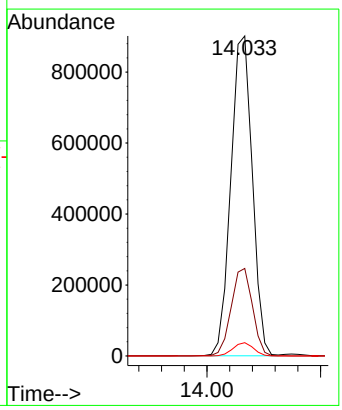


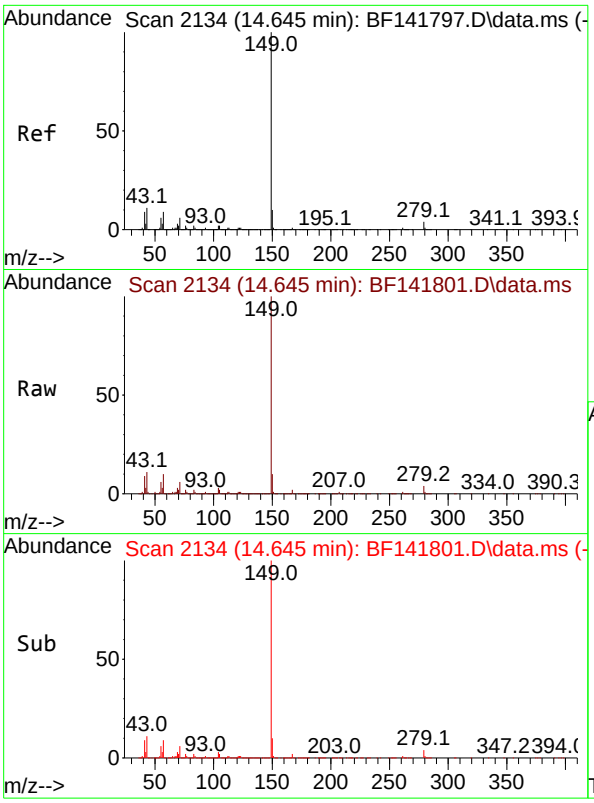


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.350 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



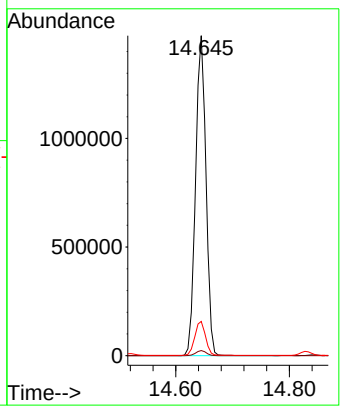


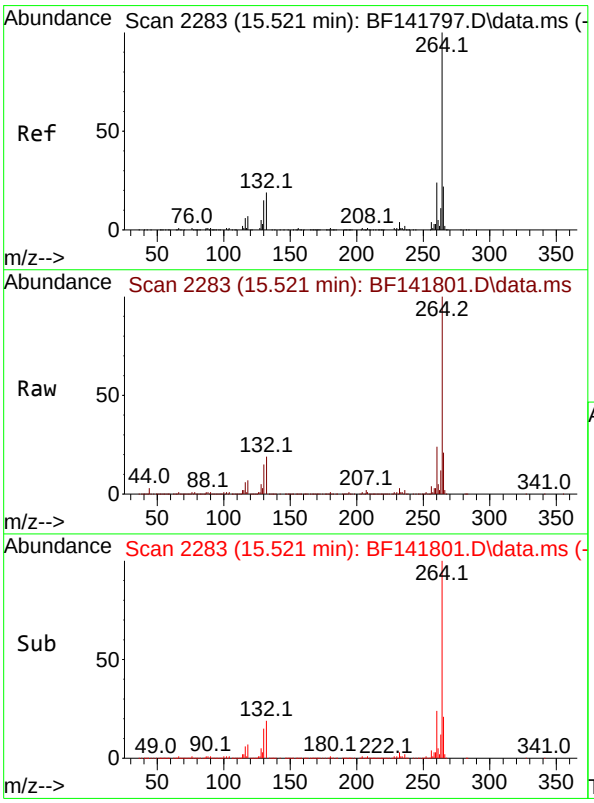
#85
Di-n-octyl phthalate
Concen: 46.033 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

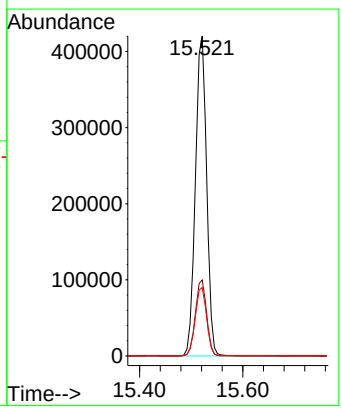


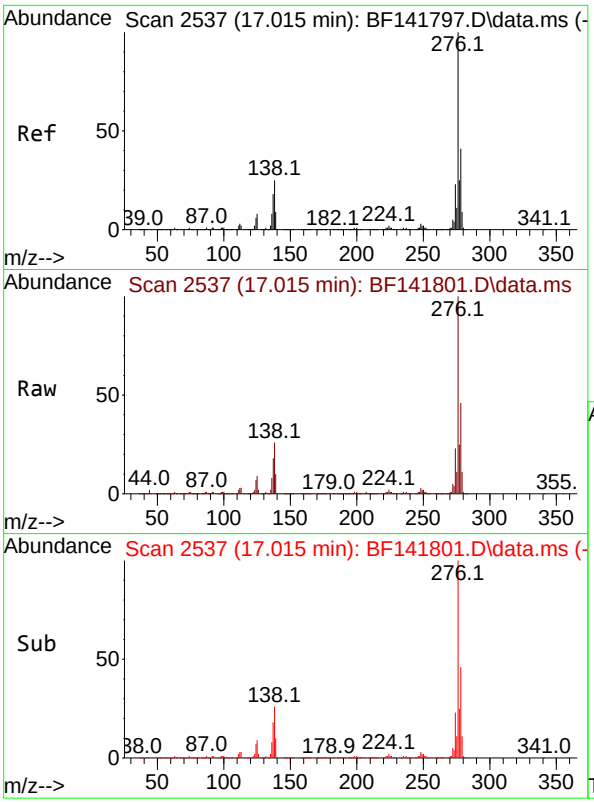


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



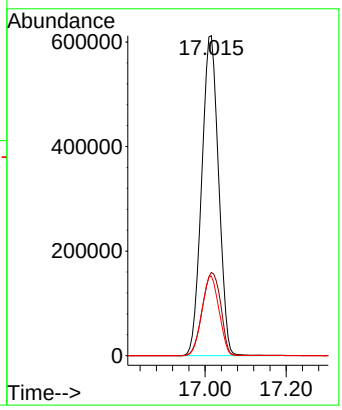


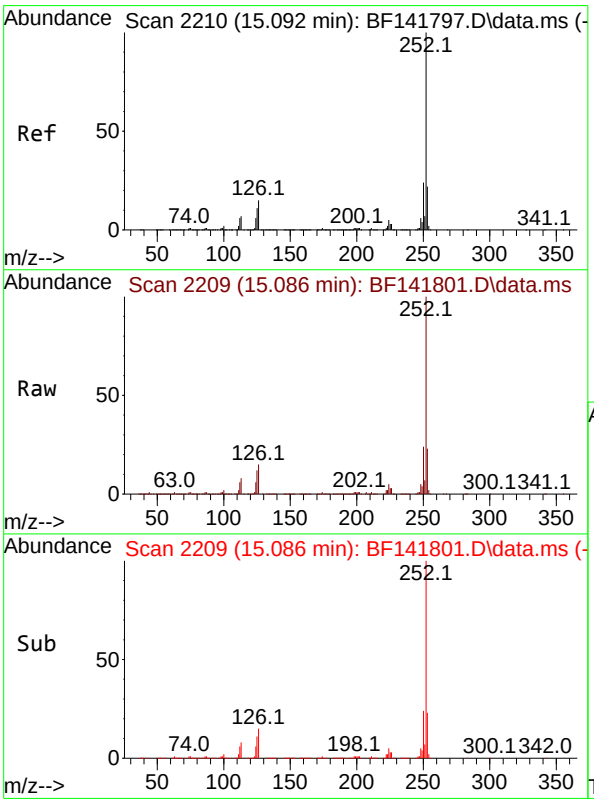
#87
Indeno(1,2,3-cd)pyrene
Concen: 43.754 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

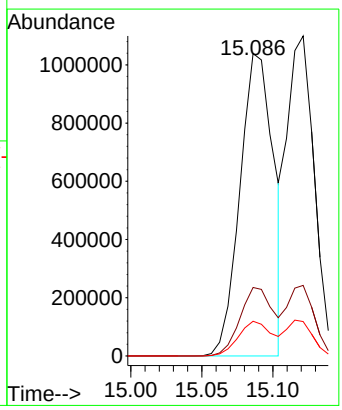


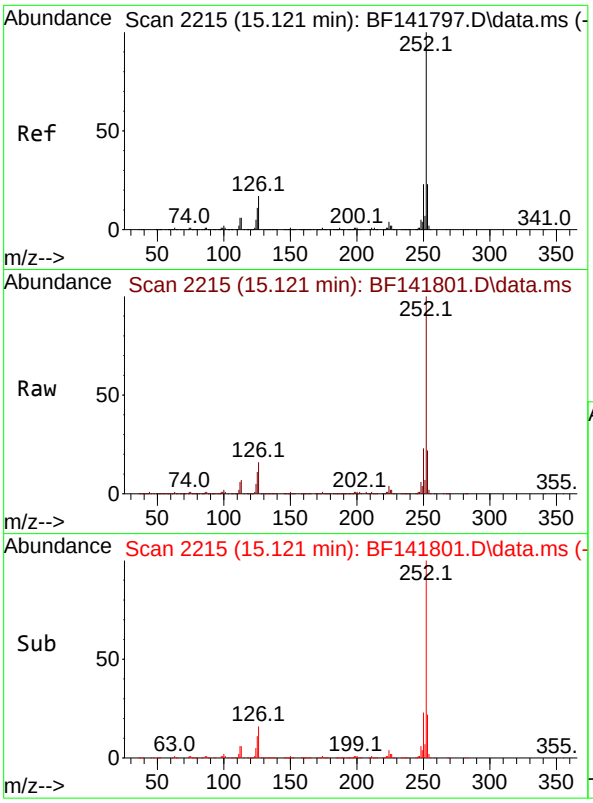


#88
Benzo(b)fluoranthene
Concen: 39.602 ng
RT: 15.086 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



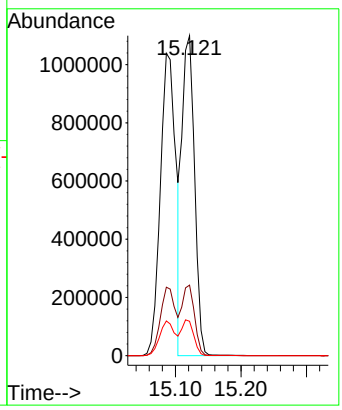


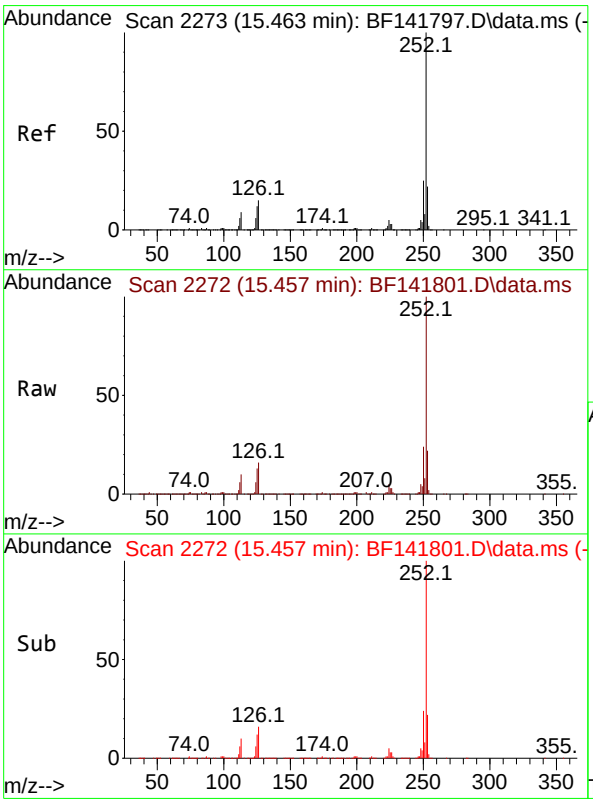
#89
Benzo(k)fluoranthene
Concen: 39.608 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

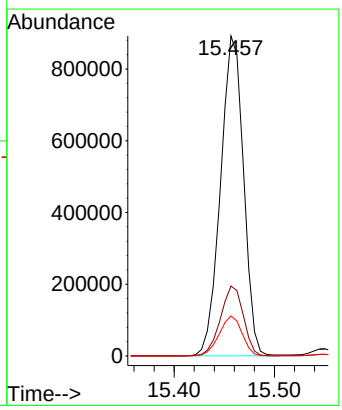


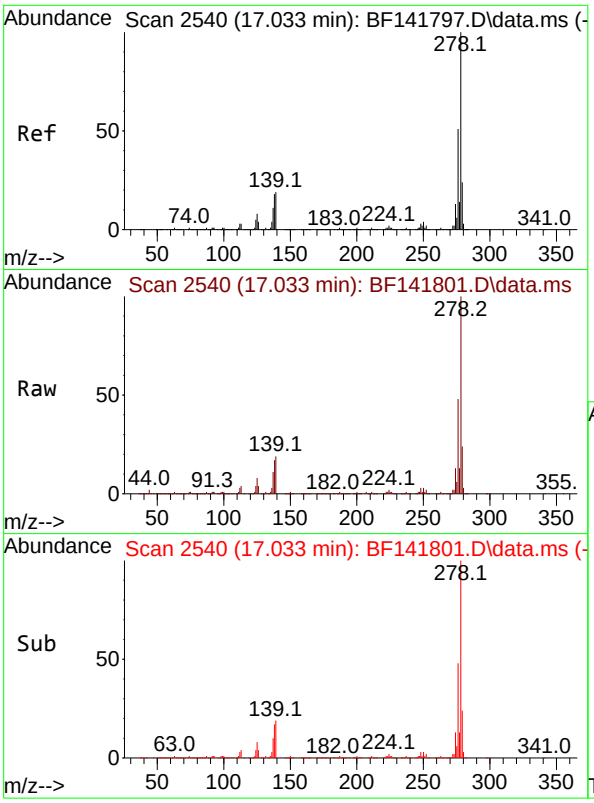


#90
Benzo(a)pyrene
Concen: 40.891 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



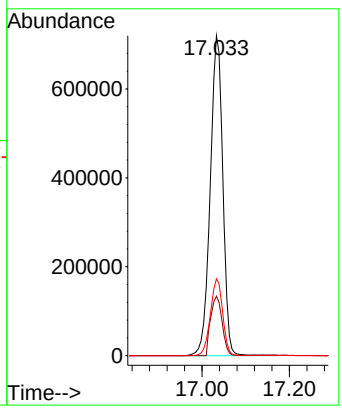


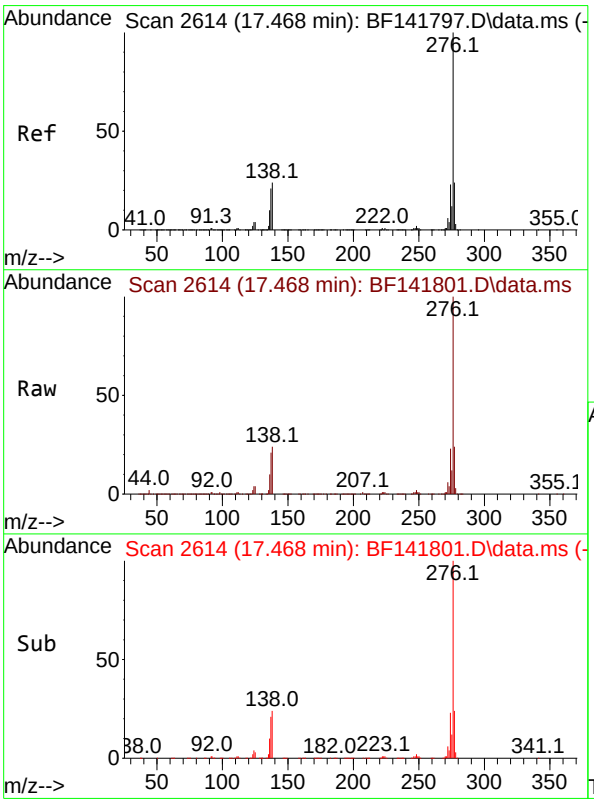
#91
Dibenzo(a,h)anthracene
Concen: 43.693 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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

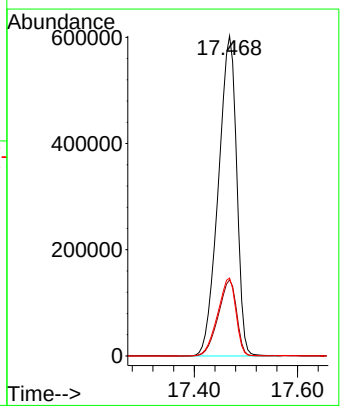




#92
Benzo(g,h,i)perylene
Concen: 43.969 ng
RT: 17.468 min Scan# 2614
Delta R.T. -0.000 min
Lab File: BF141801.D
Acq: 27 Feb 2025 19:45

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



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

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

Evaluate Continuing Calibration Report

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

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

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

Evaluate Continuing Calibration Report

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

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP021725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 18 02:25:07 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024069.D 5 =BP024070.D 10 =BP024071.D 20 =BP024072.D 40 =BP024073.D 50 =BP024074.D 60 =BP024075.D 80 =BP0240
76.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.485	0.508	0.510	0.533	0.473	0.523	0.487	0.503	4.31
3)		Pyridine		1.186	1.212	1.321	1.418	1.298	1.391	1.324	1.307	6.52
4)		n-Nitrosodimet...		0.415	0.449	0.477	0.495	0.458	0.485	0.468	0.464	5.73
5)	S	2-Fluorophenol		1.112	1.196	1.317	1.401	1.274	1.353	1.320	1.282	7.67
6)		Aniline		1.418	1.399	1.571	1.587	1.542	1.537	1.506	1.509	4.86
7)	S	Phenol-d6		1.434	1.502	1.711	1.761	1.694	1.728	1.702	1.647	7.64
8)		2-Chlorophenol		1.237	1.283	1.378	1.455	1.362	1.396	1.386	1.357	5.40
9)		Benzaldehyde		0.888	0.863	0.882	0.771	0.691	0.665	0.504	0.752	18.84
10)	C	Phenol		1.525	1.538	1.722	1.733	1.681	1.708	1.689	1.657	5.27
11)		bis(2-Chloroet...		1.273	1.228	1.339	1.362	1.309	1.305	1.317	1.305	3.35
12)		1,3-Dichlorobe...		1.452	1.456	1.512	1.577	1.470	1.492	1.474	1.490	2.92
13)	C	1,4-Dichlorobe...		1.475	1.445	1.538	1.590	1.483	1.525	1.495	1.507	3.17
14)		1,2-Dichlorobe...		1.420	1.369	1.488	1.523	1.431	1.459	1.436	1.447	3.44
15)		Benzyl Alcohol		0.884	0.834	1.031	1.069	1.072	1.082	1.087	1.008	10.35
16)		2,2'-oxybis(1-...		1.289	1.160	1.339	1.309	1.278	1.248	1.244	1.267	4.55
17)		2-Methylphenol		0.865	0.868	1.043	1.077	1.073	1.073	1.067	1.010	9.74
18)		Hexachloroethane		0.519	0.515	0.556	0.568	0.537	0.556	0.549	0.543	3.66
19)	P	n-Nitroso-di-n...	0.699	0.885	0.737	0.963	0.934	0.960	0.962	0.947	0.886	12.09
20)		3+4-Methylphenols		1.199	1.142	1.403	1.451	1.466	1.484	1.468	1.373	10.31
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.497	0.488	0.523	0.537	0.510	0.523	0.520	0.514	3.27
23)	S	Nitrobenzene-d5		0.330	0.338	0.364	0.382	0.360	0.368	0.366	0.358	5.03
24)		Nitrobenzene		0.329	0.335	0.361	0.378	0.350	0.361	0.357	0.353	4.75
25)		Isophorone		0.536	0.470	0.593	0.616	0.619	0.633	0.637	0.586	10.54
26)	C	2-Nitrophenol		0.123	0.130	0.155	0.179	0.174	0.184	0.192	0.163	16.74
27)		2,4-Dimethylph...		0.188	0.185	0.213	0.227	0.221	0.229	0.230	0.213	8.97
28)		bis(2-Chloroet...		0.423	0.379	0.432	0.440	0.424	0.434	0.441	0.425	5.01
29)	C	2,4-Dichloroph...		0.232	0.251	0.291	0.316	0.308	0.317	0.325	0.291	12.42
30)		1,2,4-Trichlor...		0.311	0.324	0.335	0.353	0.328	0.340	0.345	0.334	4.18
31)		Naphthalene		1.039	1.037	1.099	1.131	1.056	1.093	1.072	1.075	3.20
32)		Benzoic acid			0.110	0.162	0.204	0.216	0.237	0.244	0.196	26.03
33)		4-Chloroaniline		0.337	0.323	0.387	0.398	0.396	0.409	0.401	0.379	8.98
34)	C	Hexachlorobuta...		0.182	0.189	0.194	0.206	0.188	0.192	0.201	0.193	4.28
35)		Caprolactam			0.052	0.082	0.090	0.099	0.104	0.102	0.088	22.38
36)	C	4-Chloro-3-met...		0.248	0.229	0.302	0.318	0.326	0.336	0.336	0.299	14.53
37)		2-Methylnaphth...		0.688	0.626	0.728	0.740	0.731	0.741	0.749	0.715	6.12
38)		1-Methylnaphth...		0.674	0.610	0.707	0.719	0.716	0.722	0.719	0.695	5.89

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP021725.M

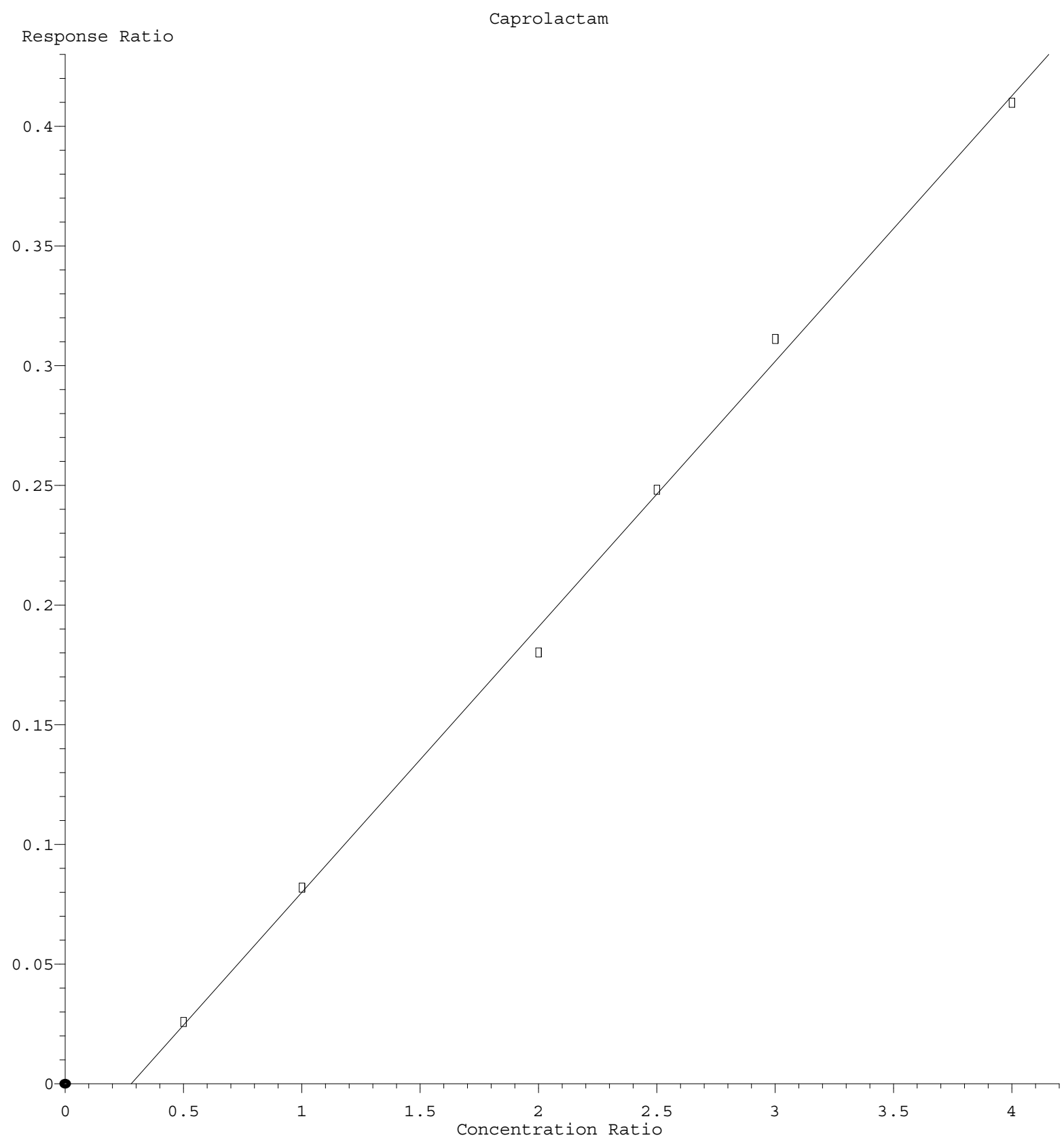
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.548	0.629	0.605	0.675	0.594	0.615	0.636	0.615	6.37
41)	P	Hexachlorocycl...	0.181	0.227	0.221	0.262	0.230	0.236	0.244	0.229	10.86
42)	S	2,4,6-Tribromo...	0.196	0.181	0.240	0.256	0.267	0.285	0.290	0.245	17.27
43)	C	2,4,6-Trichlor...	0.288	0.327	0.371	0.423	0.390	0.407	0.417	0.375	13.38
44)		2,4,5-Trichlor...	0.322	0.357	0.412	0.453	0.425	0.447	0.454	0.410	12.57
45)	S	2-Fluorobiphenyl	1.351	1.466	1.477	1.557	1.374	1.429	1.360	1.431	5.26
46)		1,1'-Biphenyl	1.465	1.570	1.552	1.630	1.514	1.576	1.571	1.554	3.36
47)		2-Chloronaphth...	1.089	1.191	1.185	1.250	1.133	1.187	1.189	1.175	4.32
48)		2-Nitroaniline	0.211	0.217	0.277	0.305	0.297	0.322	0.313	0.278	16.42
49)		Acenaphthylene	1.526	1.601	1.754	1.875	1.739	1.814	1.807	1.731	7.20
50)		Dimethylphthalate	1.340	1.231	1.438	1.446	1.435	1.499	1.487	1.411	6.69
51)		2,6-Dinitrotol...	0.240	0.231	0.293	0.304	0.304	0.322	0.318	0.287	12.77
52)	C	Acenaphthene	1.040	1.053	1.127	1.162	1.107	1.172	1.142	1.115	4.62
53)		3-Nitroaniline	0.236	0.232	0.305	0.329	0.336	0.358	0.349	0.307	17.04
54)	P	2,4-Dinitrophenol		0.083	0.131	0.156	0.169	0.187	0.193	0.153	26.84
55)		Dibenzofuran	1.749	1.698	1.837	1.900	1.793	1.863	1.835	1.811	3.83
56)	P	4-Nitrophenol		0.168	0.249	0.277	0.287	0.310	0.298	0.265	19.47
57)		2,4-Dinitrotol...	0.278	0.264	0.373	0.403	0.412	0.443	0.440	0.373	19.76
58)		Fluorene	1.311	1.228	1.453	1.496	1.438	1.521	1.452	1.414	7.46
59)		2,3,4,6-Tetrac...	0.305	0.285	0.353	0.376	0.376	0.397	0.397	0.356	12.47
60)		Diethylphthalate	1.327	1.142	1.439	1.435	1.454	1.511	1.495	1.400	9.16
61)		4-Chlorophenyl...	0.644	0.608	0.711	0.727	0.706	0.749	0.728	0.696	7.32
62)		4-Nitroaniline	0.226	0.216	0.322	0.353	0.355	0.387	0.368	0.318	21.78
63)		Azobenzene	1.195	1.108	1.394	1.387	1.333	1.416	1.354	1.312	8.84
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.074	0.104	0.122	0.123	0.133	0.138	0.116	20.23
66)	c	n-Nitrosodiphe...	0.538	0.590	0.639	0.674	0.621	0.645	0.661	0.624	7.48
67)		4-Bromophenyl-...	0.193	0.203	0.225	0.239	0.229	0.234	0.248	0.225	8.71
68)		Hexachlorobenzene	0.240	0.251	0.263	0.278	0.265	0.272	0.281	0.264	5.46
69)		Atrazine	0.161	0.151	0.175	0.179	0.158	0.154	0.144	0.160	7.91
70)	C	Pentachlorophenol		0.117	0.159	0.179	0.183	0.191	0.199	0.172	17.36
71)		Phenanthrene	1.068	1.079	1.146	1.188	1.114	1.151	1.147	1.128	3.81
72)		Anthracene	0.950	0.973	1.103	1.172	1.092	1.151	1.123	1.081	7.94
73)		Carbazole	0.897	0.905	1.046	1.110	1.064	1.107	1.077	1.030	8.81
74)		Di-n-butylphth...	1.004	0.913	1.231	1.287	1.306	1.344	1.325	1.201	14.28
75)	C	Fluoranthene	1.131	1.206	1.290	1.334	1.312	1.353	1.301	1.275	6.17
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.236	0.238	0.119	0.357	0.119	0.144	0.493	0.244	57.13
78)		Pyrene	1.143	1.226	1.208	1.372	1.315	1.300	1.329	1.270	6.34
79)	S	Terphenyl-d14	0.953	1.005	1.047	1.084	1.028	1.010	0.948	1.011	4.82
80)		Butylbenzylpht...	0.368	0.363	0.498	0.503	0.533	0.560	0.584	0.487	18.11
81)		Benzo(a)anthra...	1.138	1.170	1.288	1.314	1.284	1.291	1.295	1.254	5.56
82)		3,3'-Dichlorob...	0.294	0.325	0.389	0.434	0.395	0.419	0.486	0.392	16.59
83)		Chrysene	1.125	1.147	1.225	1.274	1.211	1.236	1.247	1.209	4.47
84)		Bis(2-ethylhex...	0.541	0.545	0.759	0.780	0.828	0.840	0.875	0.738	18.82
85)	c	Di-n-octyl pht...		0.773	1.148	1.160	1.271	1.311	1.416	1.180	18.87

Response Factor Report MSBNA_P

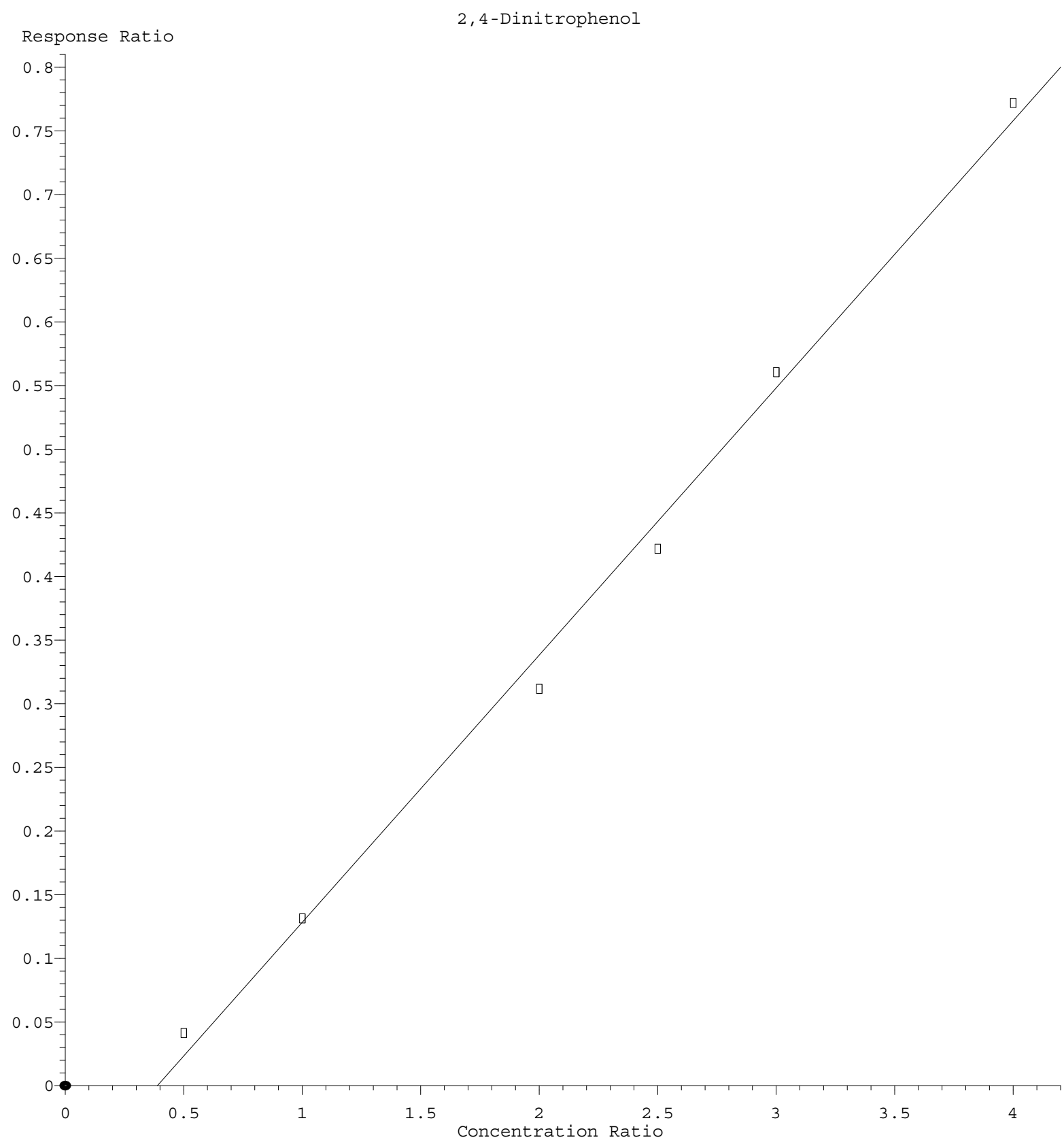
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP021725.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.134	1.322	1.408	1.583	1.450	1.519	1.544	1.423	10.90
88)		Benzo(b)fluora...	1.116	1.108	1.264	1.363	1.308	1.376	1.355	1.270	9.01
89)		Benzo(k)fluora...	1.099	1.087	1.247	1.339	1.269	1.314	1.300	1.236	8.28
90)	C	Benzo(a)pyrene	0.889	0.922	1.068	1.177	1.121	1.182	1.186	1.078	11.65
91)		Dibenzo(a,h)an...	0.956	1.106	1.187	1.331	1.221	1.283	1.290	1.196	10.83
92)		Benzo(g,h,i)pe...	0.976	1.160	1.203	1.357	1.221	1.287	1.293	1.214	10.21

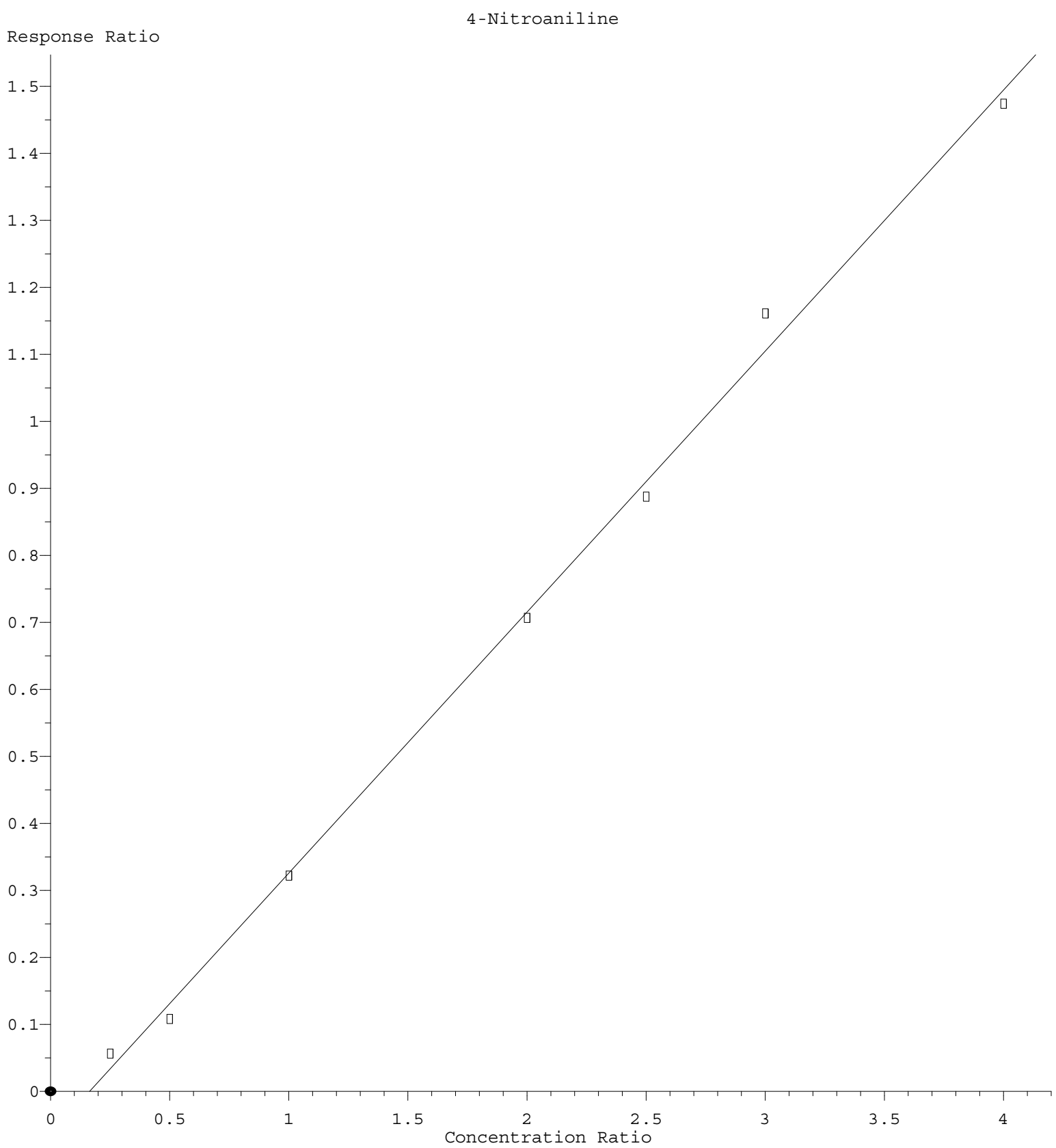
(#) = Out of Range



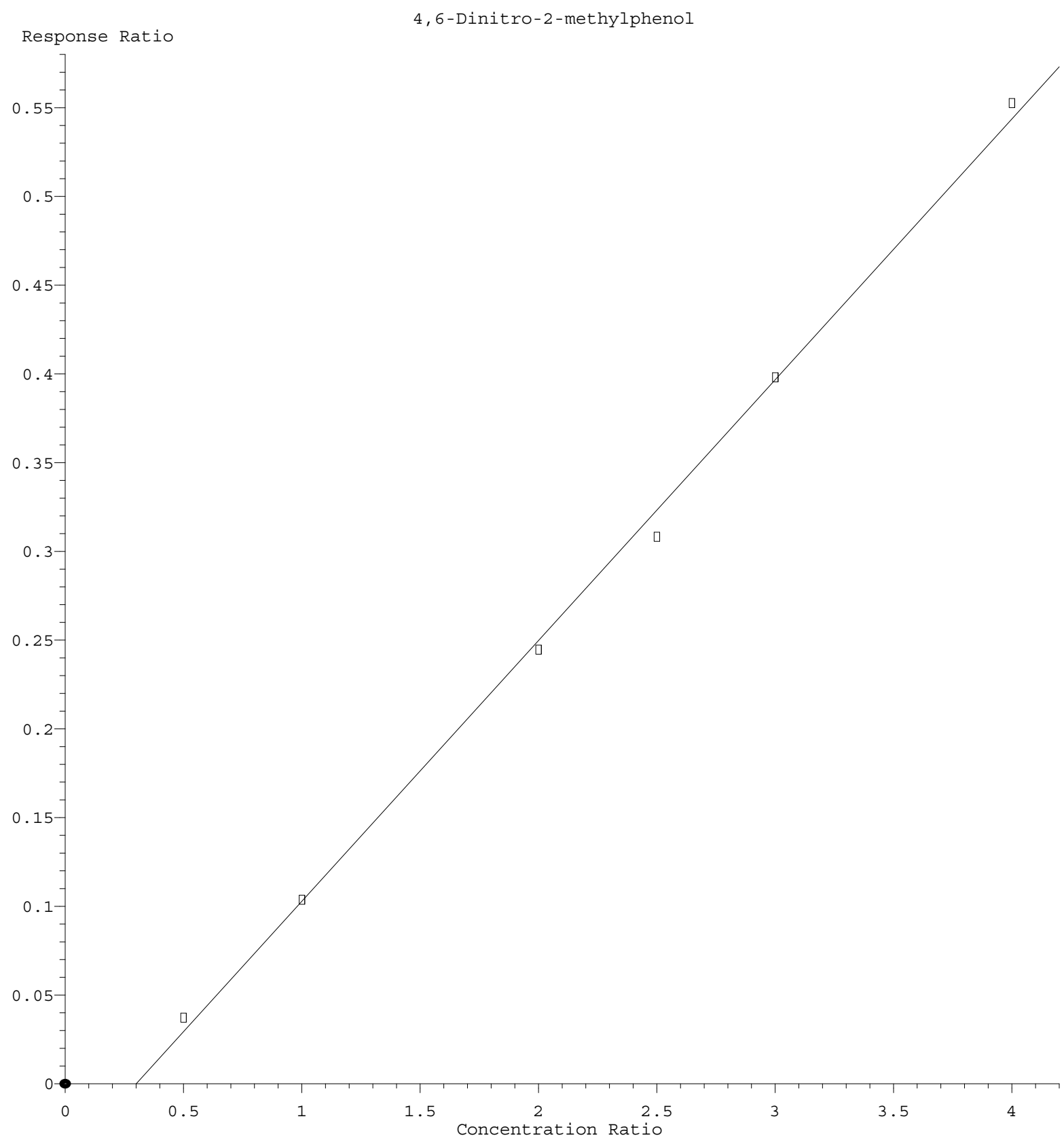
Response = 1.110e-001 * Amt - 3.092e-002
Coef of Det (r^2) = 0.997862 Curve Fit: Linear
Method: Q:\421SPL\P BNA\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP021725.M
Calibration Table Last Updated: Tue Feb 18 02:25:07 2025



Response = 2.099e-001 * Amt - 8.164e-002
Coef of Det (r^2) = 0.995007 Curve Fit: Linear
Method: Q:\421-SPL P BNA\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP021725.M
Calibration Table Last Updated: Tue Feb 18 02:25:07 2025



Response = 3.897e-001 * Amt - 6.407e-002
Coef of Det (r^2) = 0.997022 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP021725.M
Calibration Table Last Updated: Tue Feb 18 02:25:07 2025



Response = 1.469e-001 * Amt - 4.412e-002
Coef of Det (r^2) = 0.997804 Curve Fit: Linear
Method: Q:\421-SPLP BNA\svoasrv\HPCHEM1\BNA P\Methods\8270E-BP021725.M
Calibration Table Last Updated: Tue Feb 18 02:25:07 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024069.D
Acq On : 17 Feb 2025 11:28
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 18 00:44:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 00:34:37 2025
Response via : Initial Calibration

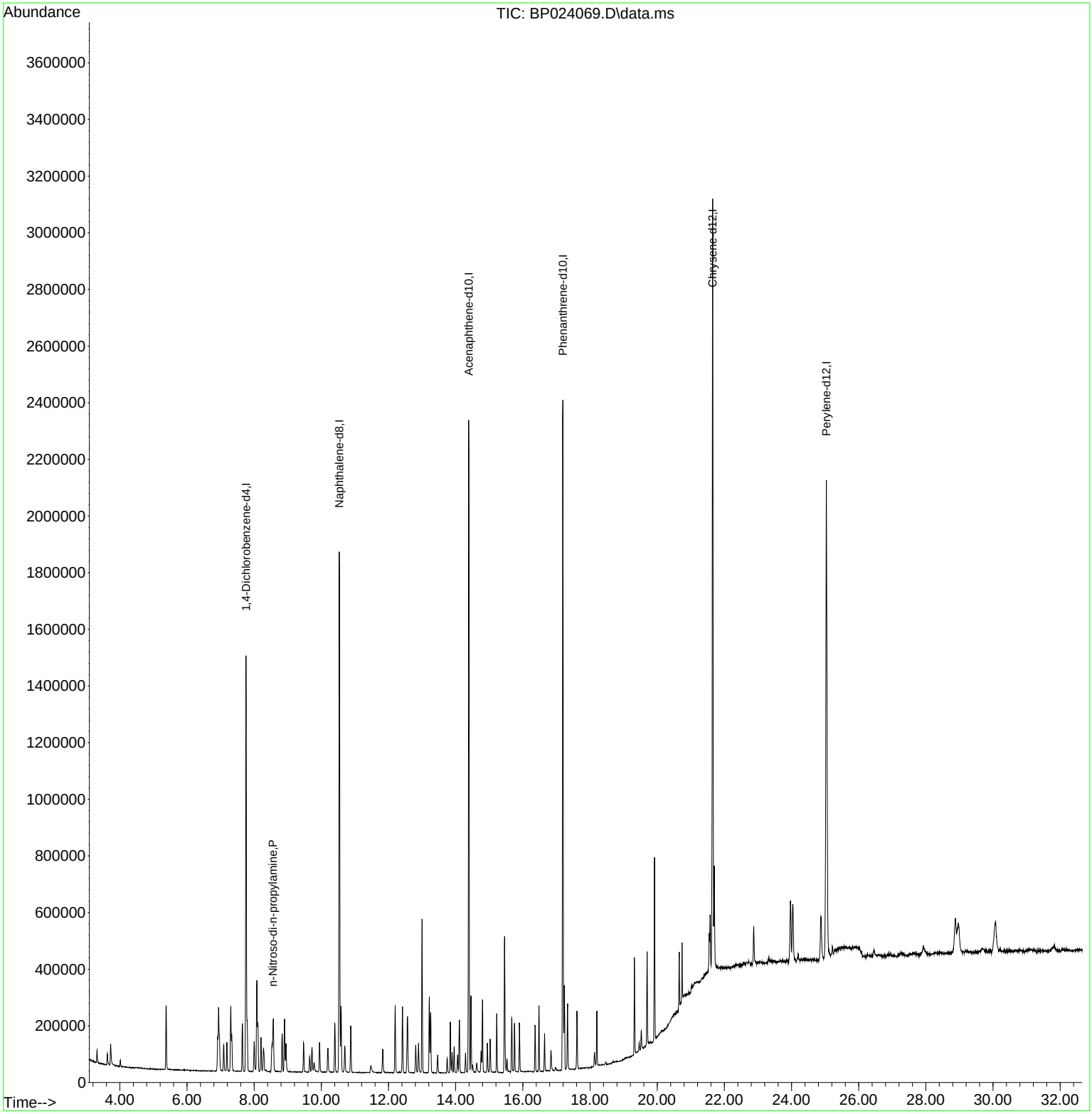
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.758	152	394542	20.000	ng	0.00
21) Naphthalene-d8	10.534	136	1498746	20.000	ng	0.00
39) Acenaphthene-d10	14.387	164	782657	20.000	ng	0.00
64) Phenanthrene-d10	17.192	188	1415163	20.000	ng	0.00
76) Chrysene-d12	21.651	240	1479804	20.000	ng	0.00
86) Perylene-d12	25.039	264	1596604	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...	8.558	70	34455	1.584	ng	96

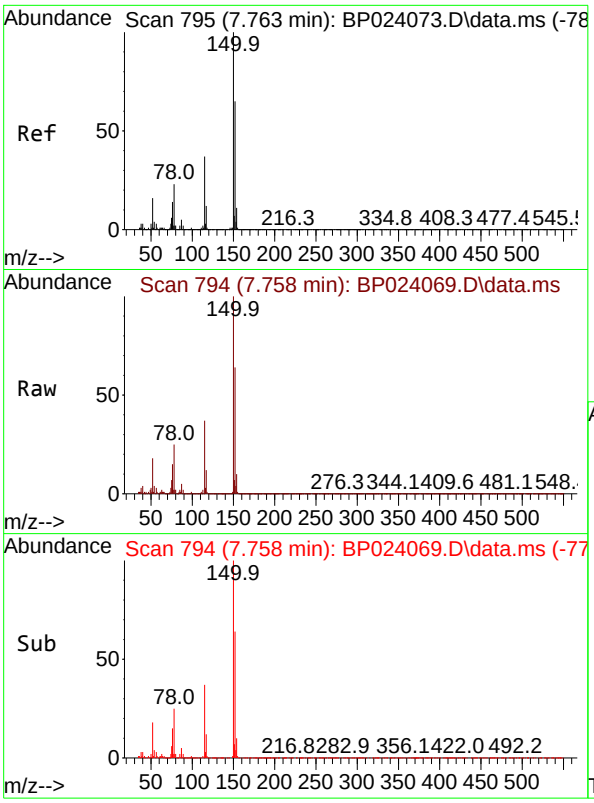
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024069.D
Acq On : 17 Feb 2025 11:28
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Feb 18 00:44:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 00:34:37 2025
Response via : Initial Calibration



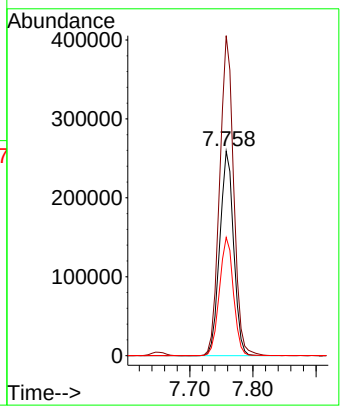


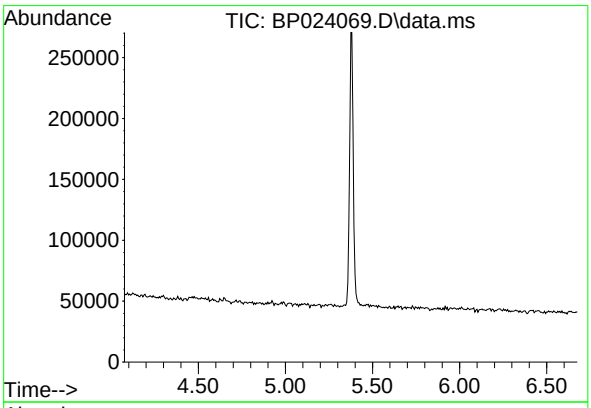
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 394542

Ion	Ratio	Lower	Upper
152	100		
150	156.5	122.4	183.6
115	57.8	45.0	67.6



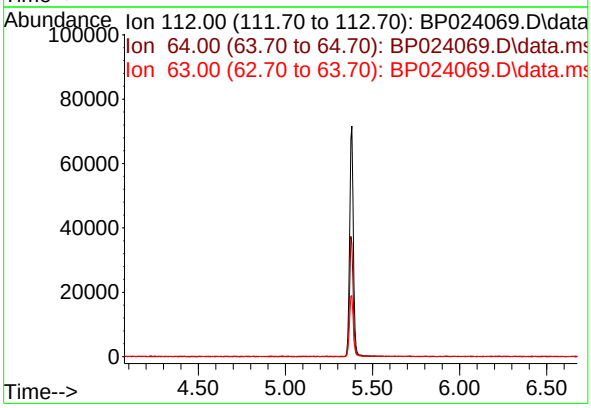


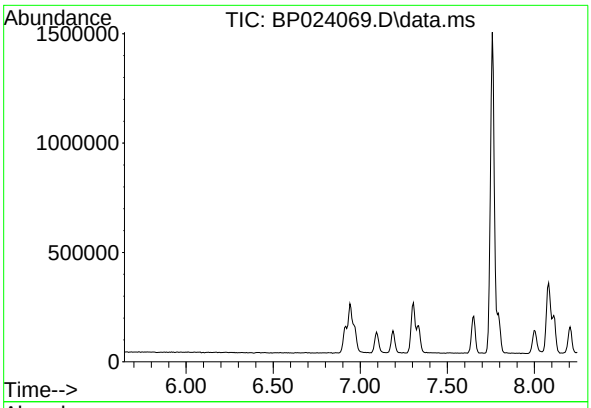
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.38 min

Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	49.5
63	25.4





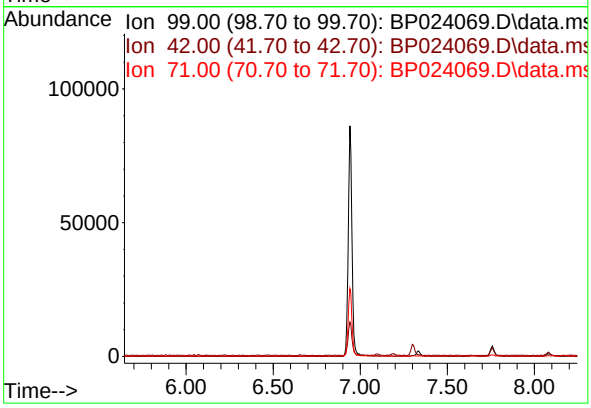
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.95 min

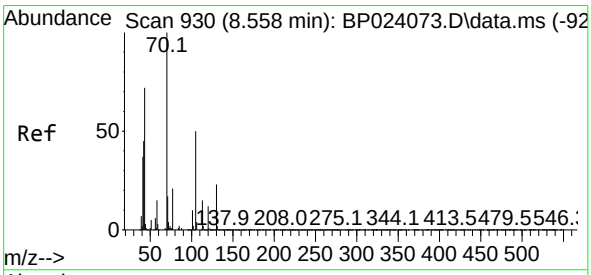
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	12.9
71	28.6

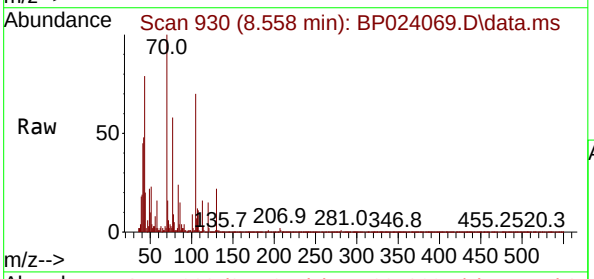


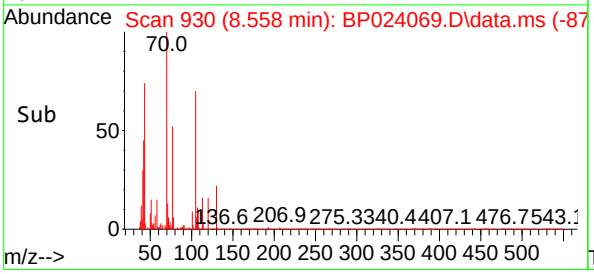


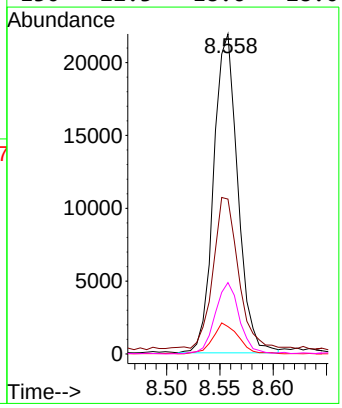
#19
n-Nitroso-di-n-propylamine
Concen: 1.584 ng
RT: 8.558 min Scan# 930
Delta R.T. 0.000 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

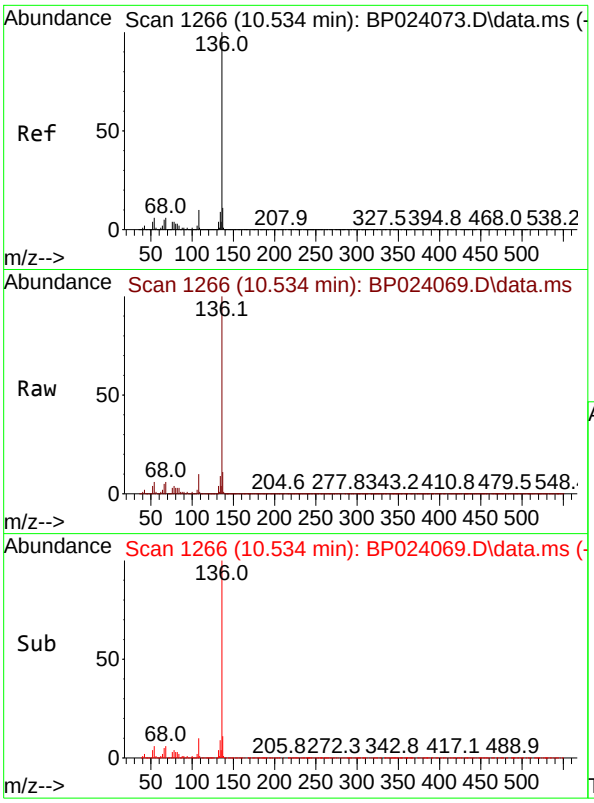
Tgt Ion: 70 Resp: 34455

Ion	Ratio	Lower	Upper
70	100		
42	48.4	36.6	54.8
101	8.5	8.2	12.2
130	22.3	18.6	28.0







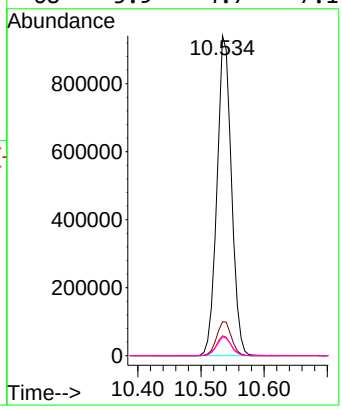


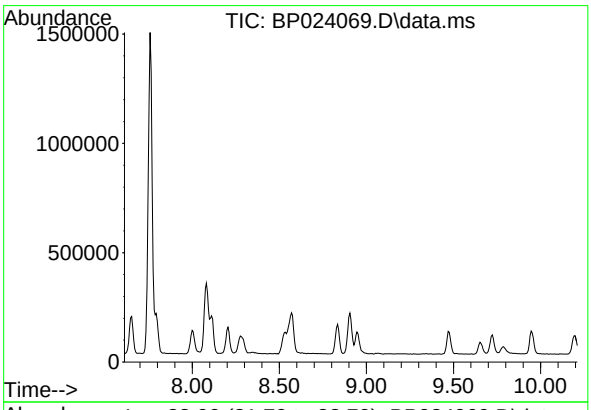
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 1498746

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.7	13.1
54	6.2	4.9	7.3
68	5.9	4.7	7.1



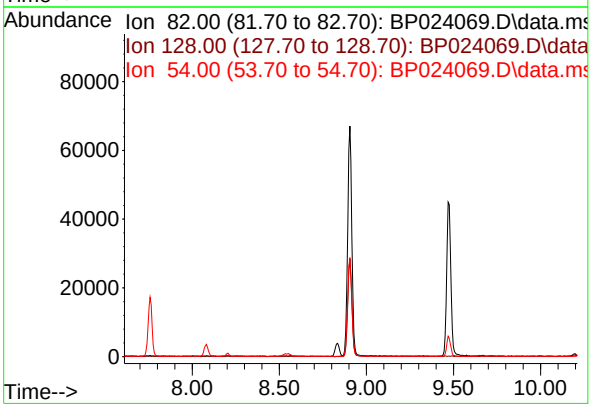


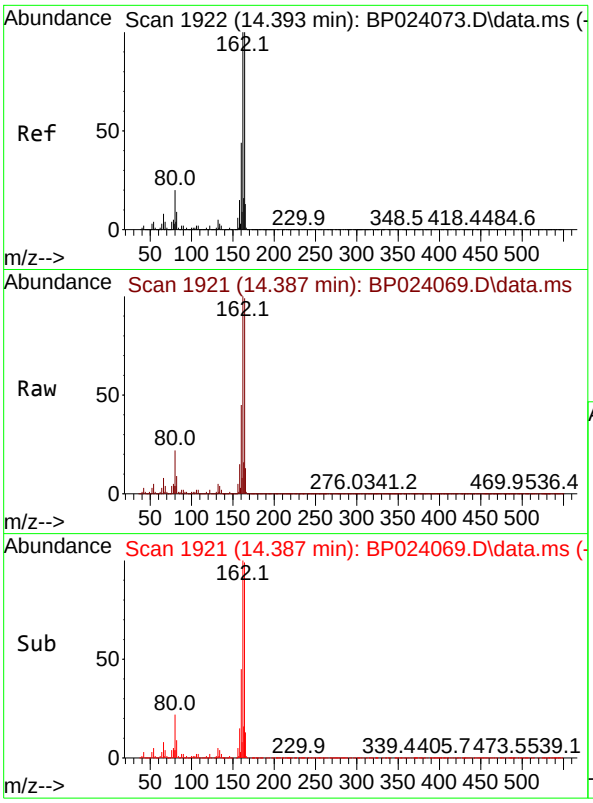
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 8.91 min

Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	46.8
54	40.5



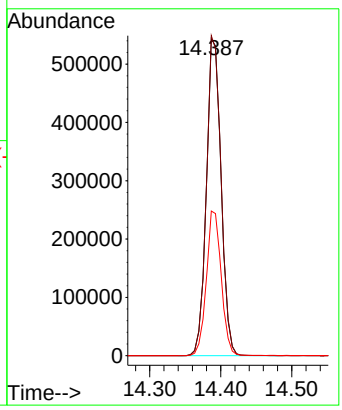


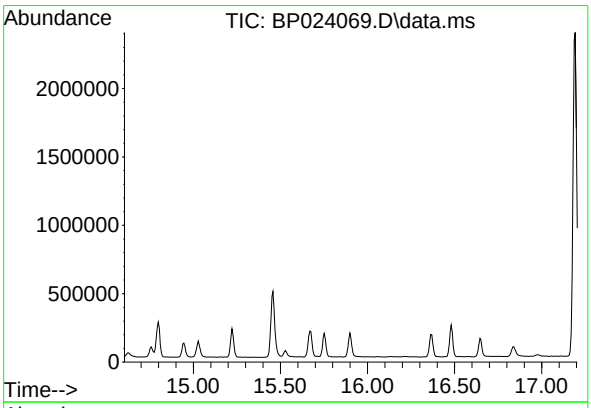
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.387 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 782657

Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.1	120.1
160	45.6	35.6	53.4



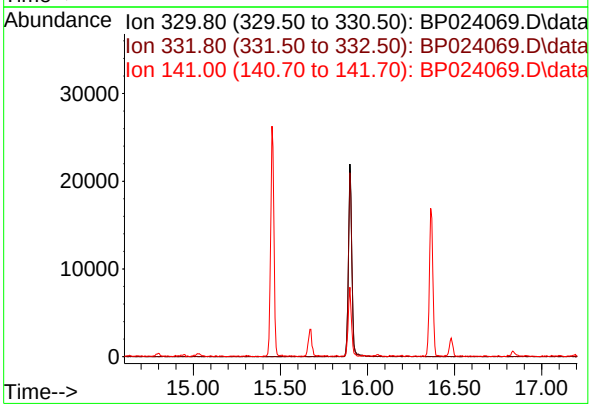


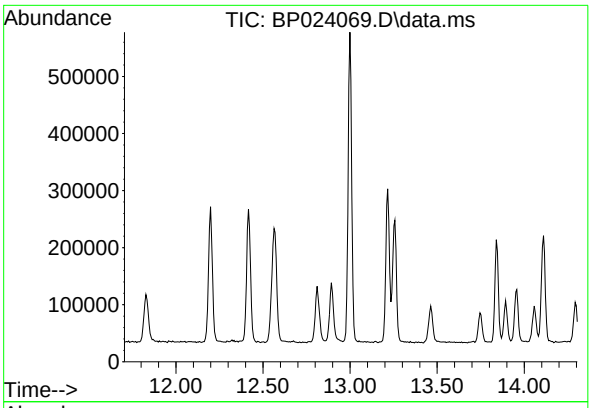
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.90 min

Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.2
141	35.4





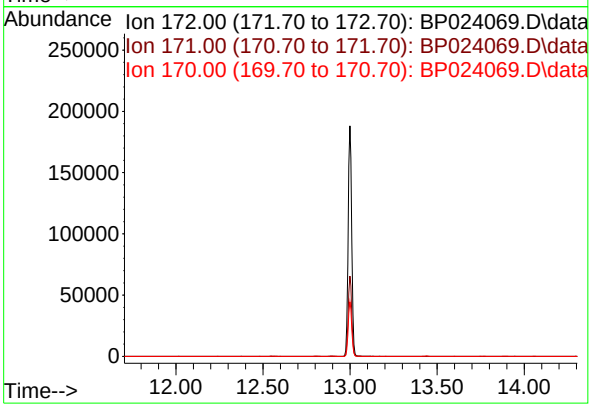
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.00 min

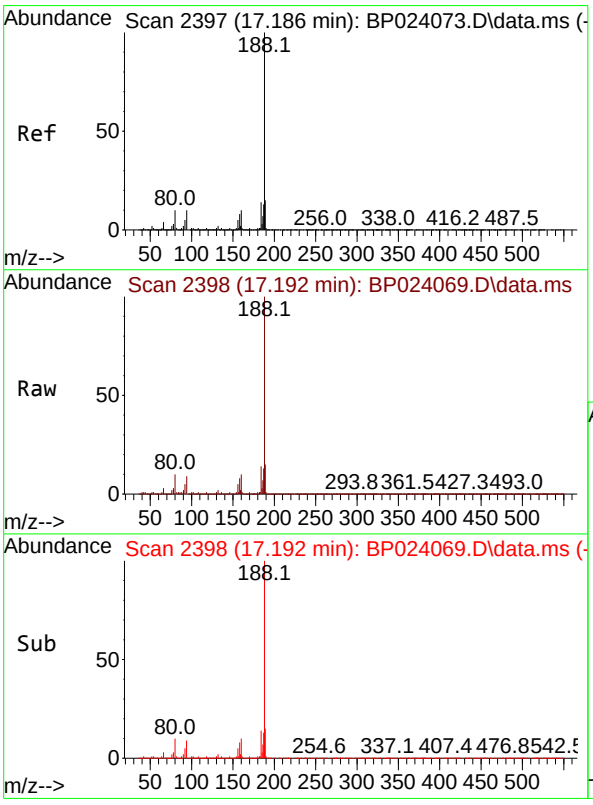
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	35.2
170	23.8

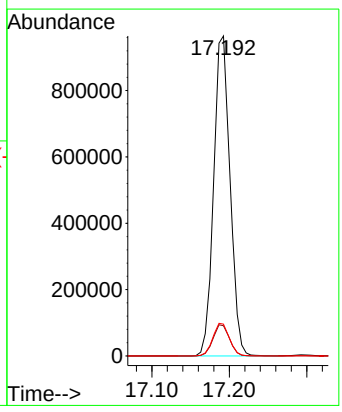


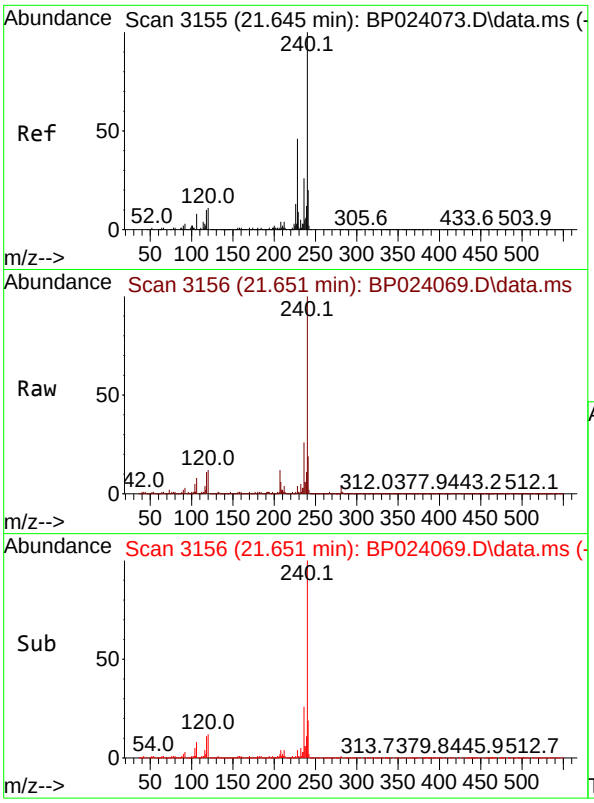


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2398
Delta R.T. 0.006 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Tgt Ion:188 Resp: 1415163

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.6	11.4
80	10.0	8.2	12.2



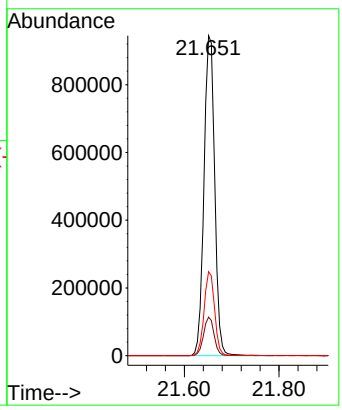


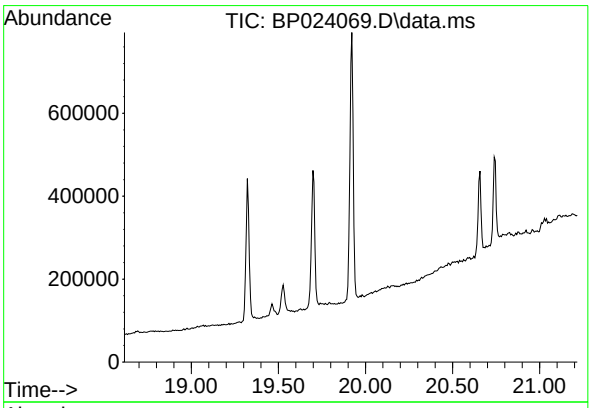
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.651 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 1479804

Ion	Ratio	Lower	Upper
240	100		
120	12.1	8.9	13.3
236	26.3	20.7	31.1



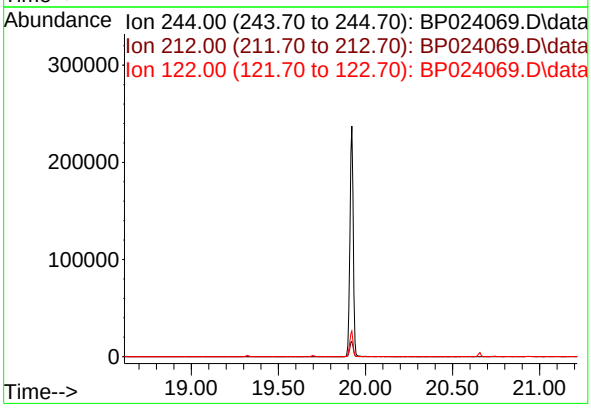


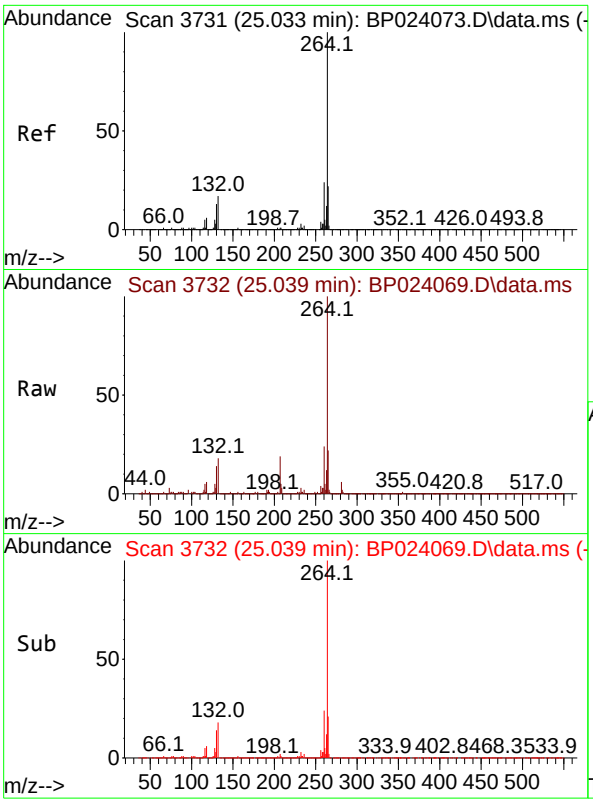
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.92 min

Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.4
122	11.8



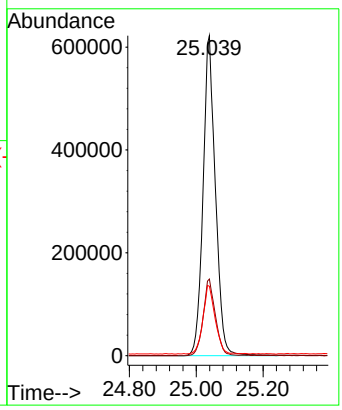


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.039 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024069.D
Acq: 17 Feb 2025 11:28

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 1596604

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.0	28.6
265	21.7	17.8	26.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024070.D
Acq On : 17 Feb 2025 12:09
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Feb 18 02:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.758	152	386656	20.000	ng		0.00
21) Naphthalene-d8	10.534	136	1534795	20.000	ng		0.00
39) Acenaphthene-d10	14.387	164	965513	20.000	ng		0.00
64) Phenanthrene-d10	17.181	188	1879447	20.000	ng		0.00
76) Chrysene-d12	21.639	240	1942491	20.000	ng		0.00
86) Perylene-d12	25.027	264	1795199	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	215069	8.679	ng		0.00
7) Phenol-d6	6.940	99	277302	8.707	ng		0.00
23) Nitrobenzene-d5	8.905	82	253560	9.217	ng		0.00
42) 2,4,6-Tribromophenol	15.892	330	94753	8.012	ng		-0.01
45) 2-Fluorobiphenyl	12.998	172	652264	9.444	ng		0.00
79) Terphenyl-d14	19.904	244	925211	9.425	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.317	88	46898	4.825	ng		98
3) Pyridine	3.717	79	114656	4.532	ng		96
4) n-Nitrosodimethylamine	3.623	42	40104	4.474	ng	#	94
6) Aniline	7.093	93	137066	4.699	ng		99
8) 2-Chlorophenol	7.334	128	119587	4.560	ng		96
9) Benzaldehyde	6.911	77	85861	5.905	ng		97
10) Phenol	6.969	94	147368	4.601	ng		98
11) bis(2-Chloroethyl)ether	7.187	93	123063	4.879	ng		99
12) 1,3-Dichlorobenzene	7.652	146	140323	4.870	ng		99
13) 1,4-Dichlorobenzene	7.793	146	142583	4.893	ng		99
14) 1,2-Dichlorobenzene	8.111	146	137258	4.908	ng		99
15) Benzyl Alcohol	7.999	79	85473	4.384	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.275	45	124560	5.087	ng		98
17) 2-Methylphenol	8.205	107	83657	4.286	ng		99
18) Hexachloroethane	8.834	117	50215	4.785	ng		96
19) n-Nitroso-di-n-propyla...	8.558	70	85546	4.996	ng		99
20) 3+4-Methylphenols	8.528	107	115932	4.367	ng		99
22) Acetophenone	8.575	105	190516	4.831	ng	#	97
24) Nitrobenzene	8.946	77	126072	4.656	ng		97
25) Isophorone	9.469	82	205517	4.568	ng		98
26) 2-Nitrophenol	9.657	139	47187	3.783	ng		96
27) 2,4-Dimethylphenol	9.722	122	72295	4.415	ng		98
28) bis(2-Chloroethoxy)met...	9.946	93	162407	4.983	ng		99
29) 2,4-Dichlorophenol	10.193	162	88946	3.981	ng		99
30) 1,2,4-Trichlorobenzene	10.399	180	119252	4.658	ng		99
31) Naphthalene	10.587	128	398806	4.833	ng		100
33) 4-Chloroaniline	10.699	127	129418	4.452	ng		99
34) Hexachlorobutadiene	10.875	225	69721	4.702	ng		98
36) 4-Chloro-3-methylphenol	11.828	107	95067	4.139	ng		97
37) 2-Methylnaphthalene	12.199	142	263903	4.811	ng		97
38) 1-Methylnaphthalene	12.422	142	258773	4.850	ng		99
40) 1,2,4,5-Tetrachloroben...	12.569	216	132362	4.462	ng		99
41) Hexachlorocyclopentadiene	12.551	237	43723	3.961	ng		96
43) 2,4,6-Trichlorophenol	12.816	196	69599	3.847	ng		98
44) 2,4,5-Trichlorophenol	12.887	196	77654	3.925	ng		98
46) 1,1'-Biphenyl	13.216	154	353639	4.714	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024070.D
Acq On : 17 Feb 2025 12:09
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Feb 18 02:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

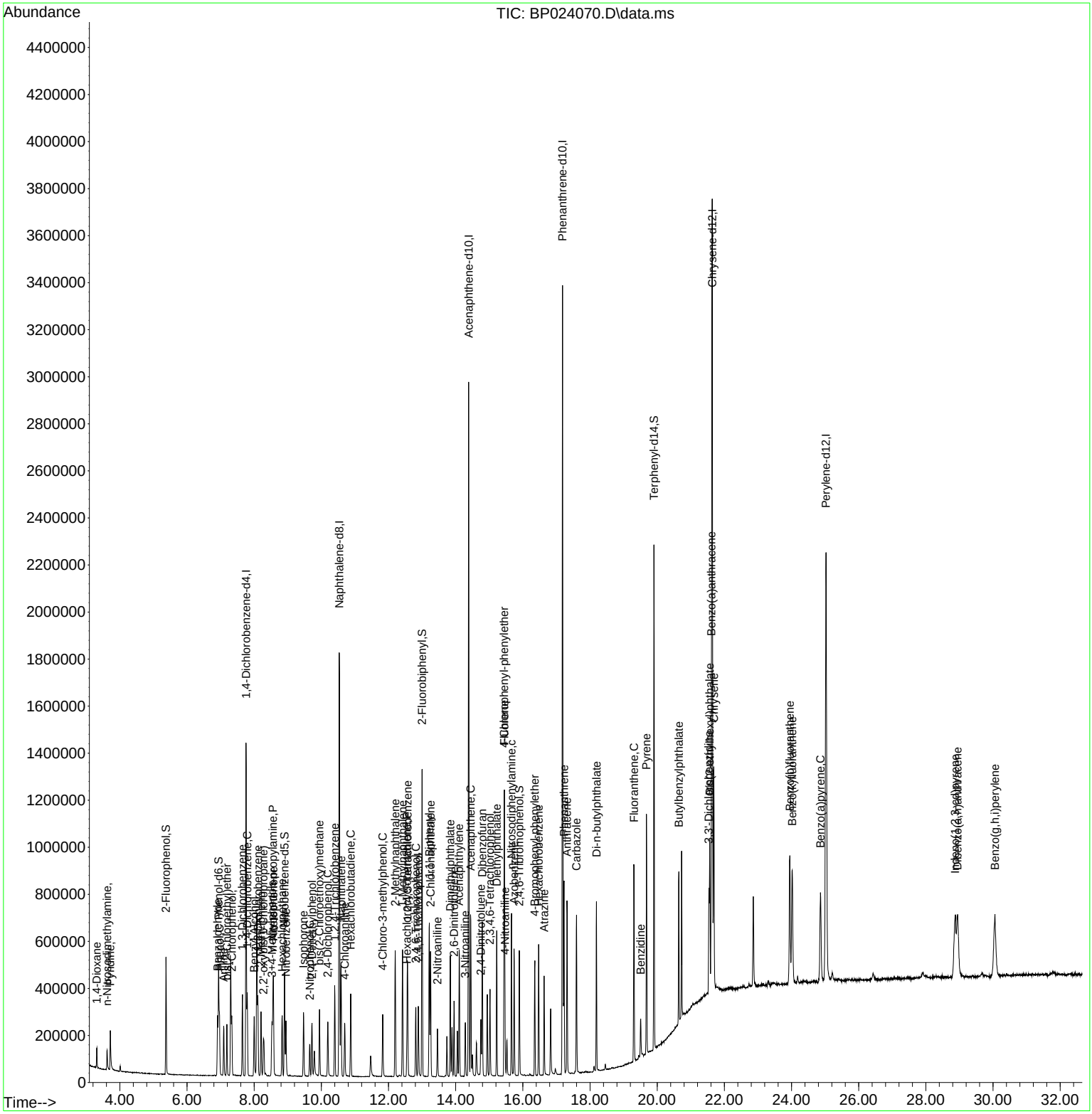
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	13.251	162	262820	4.634	ng		100
48) 2-Nitroaniline	13.457	65	50912	3.800	ng		96
49) Acenaphthylene	14.104	152	368336	4.408	ng		100
50) Dimethylphthalate	13.840	163	323452	4.749	ng		99
51) 2,6-Dinitrotoluene	13.951	165	57895	4.173	ng		91
52) Acenaphthene	14.445	154	251033	4.665	ng		99
53) 3-Nitroaniline	14.287	138	57055	3.854	ng	#	96
55) Dibenzofuran	14.793	168	422141	4.829	ng		100
57) 2,4-Dinitrotoluene	14.751	165	67125	3.725	ng		89
58) Fluorene	15.451	166	316460	4.635	ng		97
59) 2,3,4,6-Tetrachlorophenol	15.022	232	73599	4.287	ng		99
60) Diethylphthalate	15.222	149	320288	4.737	ng		99
61) 4-Chlorophenyl-phenyle...	15.445	204	155540	4.629	ng		97
62) 4-Nitroaniline	15.469	138	54450	6.182	ng		93
63) Azobenzene	15.740	77	288499	4.554	ng		95
66) n-Nitrosodiphenylamine	15.663	169	252587	4.310	ng		100
67) 4-Bromophenyl-phenylether	16.357	248	90836	4.304	ng		97
68) Hexachlorobenzene	16.475	284	112989	4.550	ng		96
69) Atrazine	16.634	200	75530	5.022	ng		99
71) Phenanthrene	17.228	178	501614	4.734	ng		99
72) Anthracene	17.316	178	446598	4.398	ng		98
73) Carbazole	17.598	167	421376	4.355	ng		99
74) Di-n-butylphthalate	18.192	149	471576	4.177	ng		100
75) Fluoranthene	19.310	202	531581	4.435	ng		99
77) Benzidine	19.510	184	114626	4.843	ng		99
78) Pyrene	19.680	202	554988	4.498	ng		100
80) Butylbenzylphthalate	20.645	149	178630	3.778	ng		97
81) Benzo(a)anthracene	21.616	228	552572	4.537	ng		99
82) 3,3'-Dichlorobenzidine	21.539	252	142903	3.755	ng		100
83) Chrysene	21.686	228	546204	4.650	ng		98
84) Bis(2-ethylhexyl)phtha...	21.563	149	262557	3.662	ng		98
87) Indeno(1,2,3-cd)pyrene	28.868	276	508904	3.983	ng		99
88) Benzo(b)fluoranthene	23.951	252	500824	4.393	ng		99
89) Benzo(k)fluoranthene	24.021	252	493266	4.445	ng		98
90) Benzo(a)pyrene	24.863	252	398861	4.123	ng		98
91) Dibenzo(a,h)anthracene	28.945	278	429271	3.998	ng		98
92) Benzo(g,h,i)perylene	30.056	276	437863	4.018	ng		98

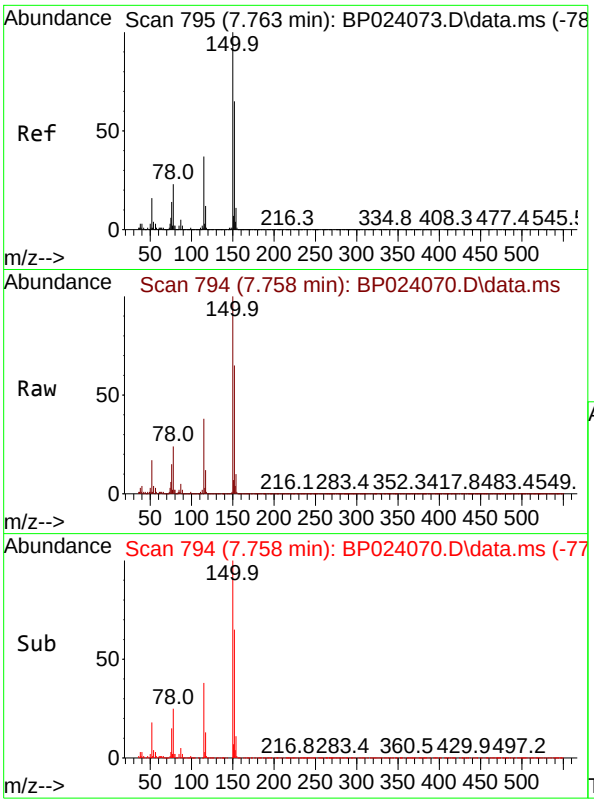
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024070.D
Acq On : 17 Feb 2025 12:09
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: Feb 18 02:00:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration



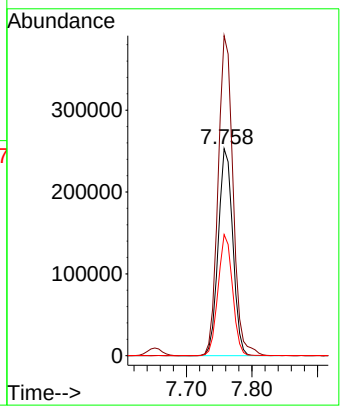


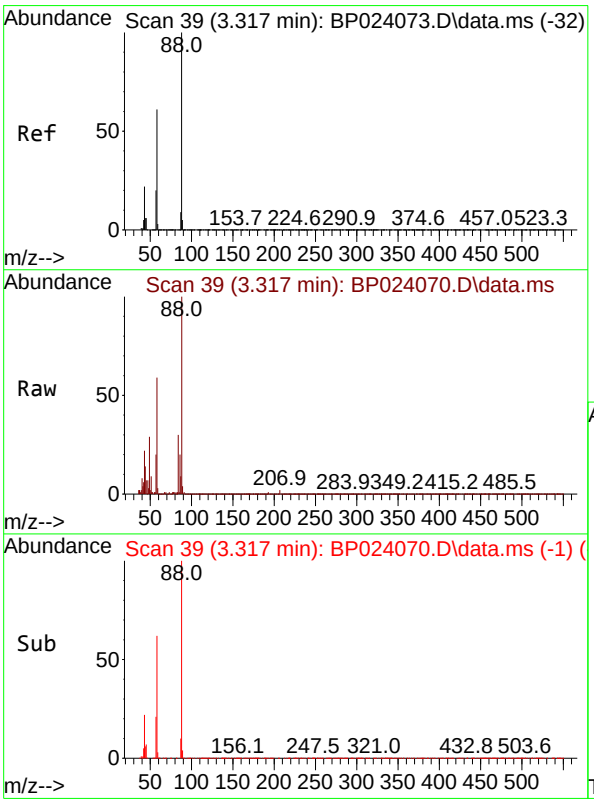
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 386656

Ion	Ratio	Lower	Upper
152	100		
150	154.6	122.4	183.6
115	58.5	45.0	67.6

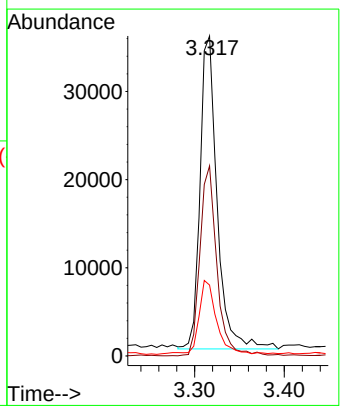


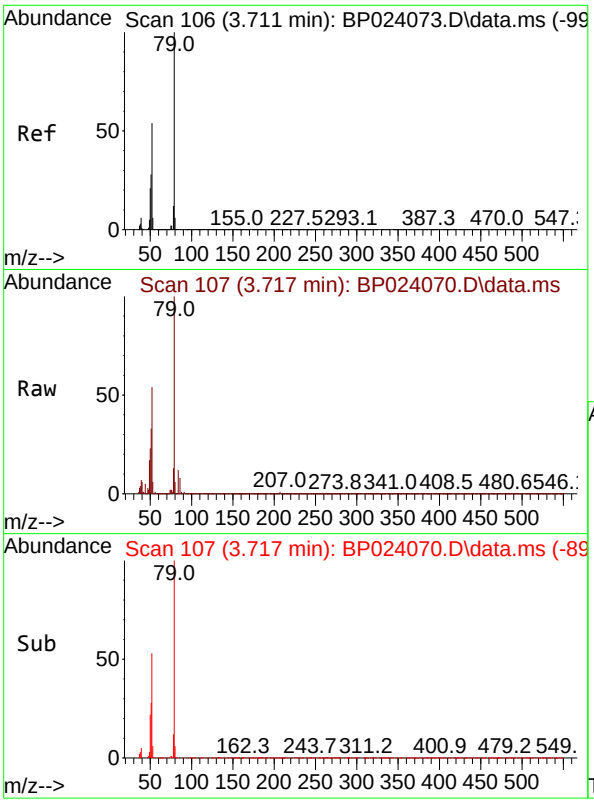


#2
1,4-Dioxane
Concen: 4.825 ng
RT: 3.317 min Scan# 39
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 88 Resp: 46898

Ion	Ratio	Lower	Upper
88	100		
58	60.2	49.1	73.7
43	24.8	18.0	27.0



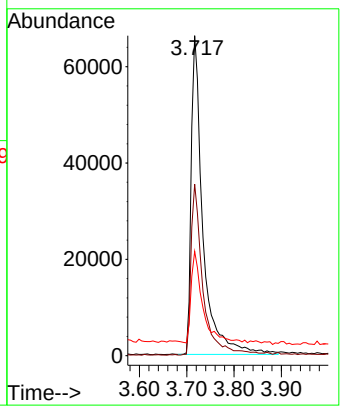


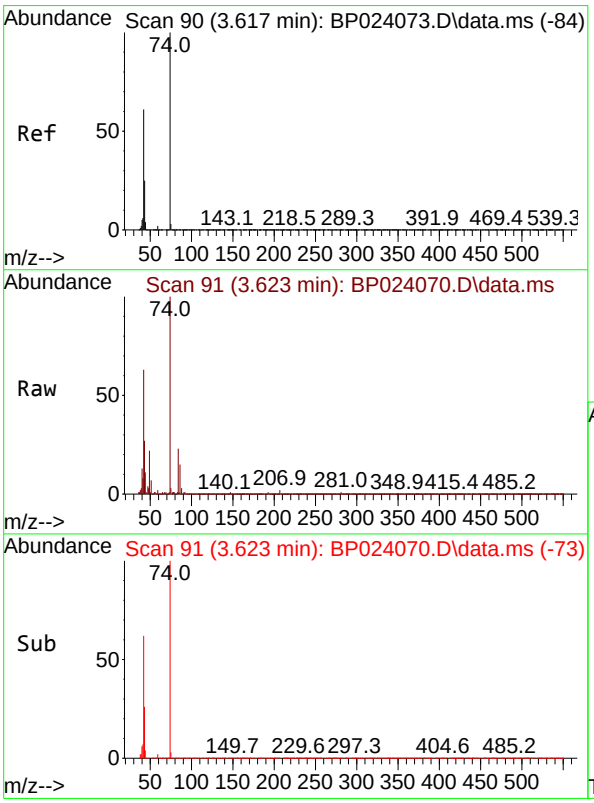
#3
Pyridine
Concen: 4.532 ng
RT: 3.717 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 114656

Ion	Ratio	Lower	Upper
79	100		
52	53.6	43.5	65.3
51	32.6	22.2	33.4

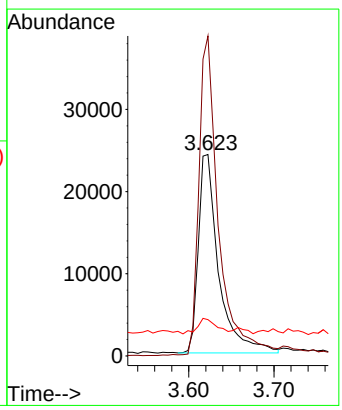


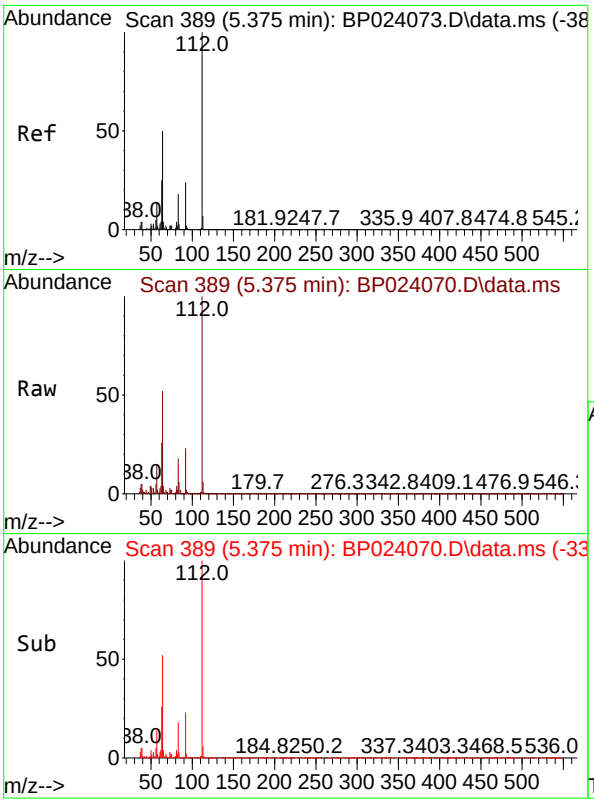


#4
n-Nitrosodimethylamine
Concen: 4.474 ng
RT: 3.623 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 42 Resp: 40104

Ion	Ratio	Lower	Upper
42	100		
74	158.8	132.0	198.0
44	18.1	5.3	7.9#



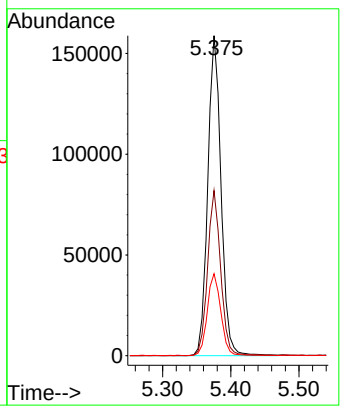


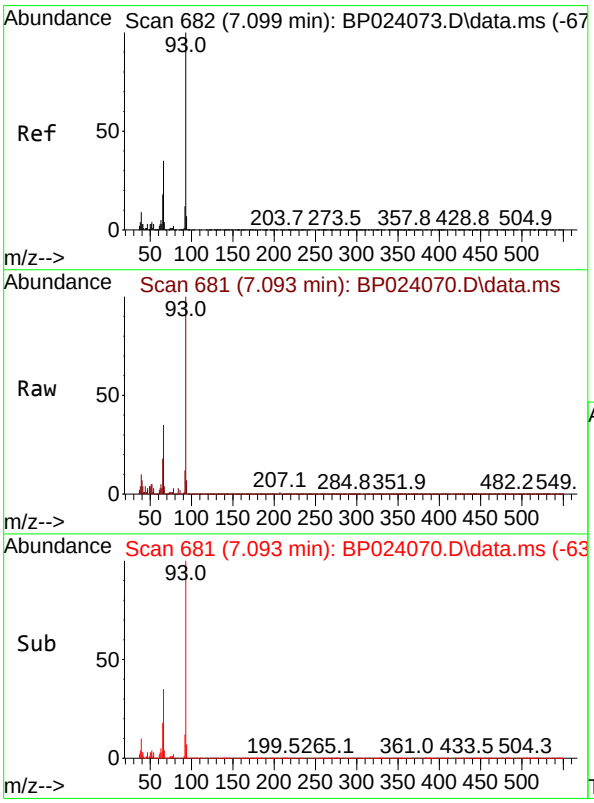
#5
2-Fluorophenol
Concen: 8.679 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 215069

Ion	Ratio	Lower	Upper
112	100		
64	51.6	39.6	59.4
63	25.6	20.3	30.5

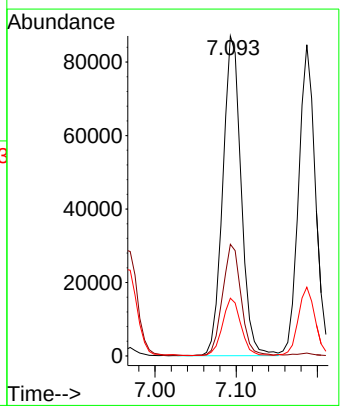


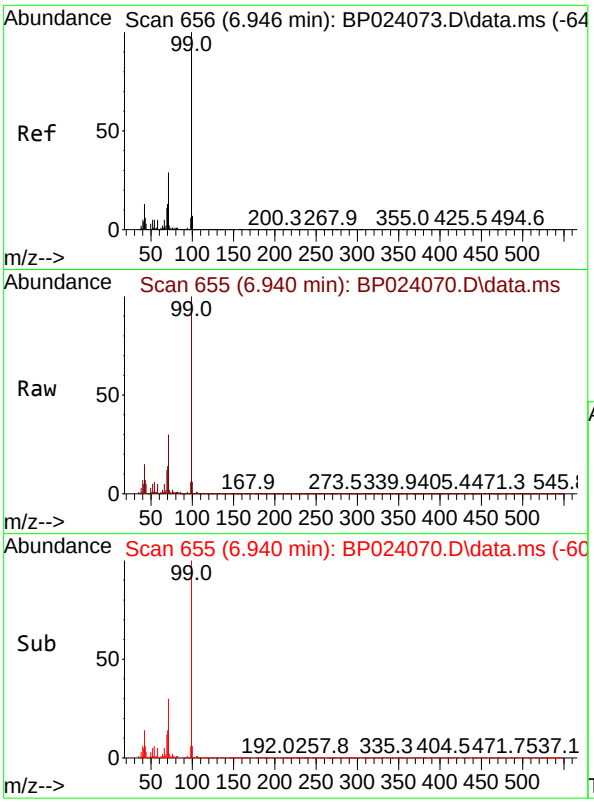


#6
Aniline
Concen: 4.699 ng
RT: 7.093 min Scan# 681
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 93 Resp: 137066

Ion	Ratio	Lower	Upper
93	100		
66	34.9	28.2	42.4
65	18.0	14.1	21.1



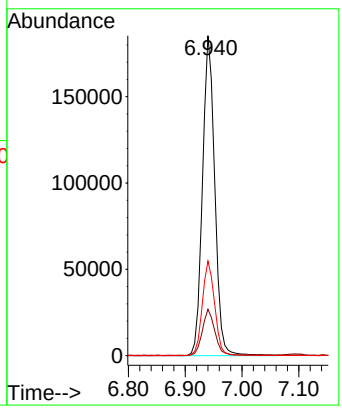


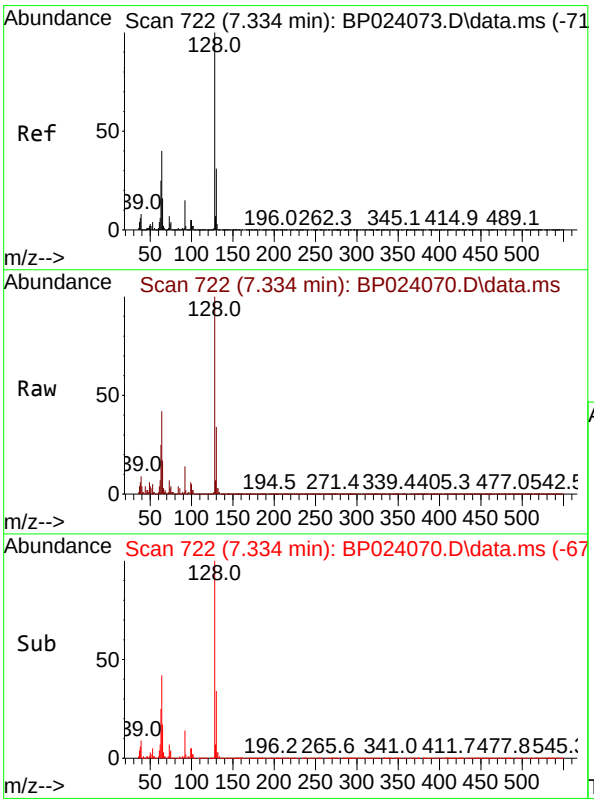
#7
Phenol-d6
Concen: 8.707 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 277302

Ion	Ratio	Lower	Upper
99	100		
42	14.5	10.3	15.5
71	29.6	22.9	34.3

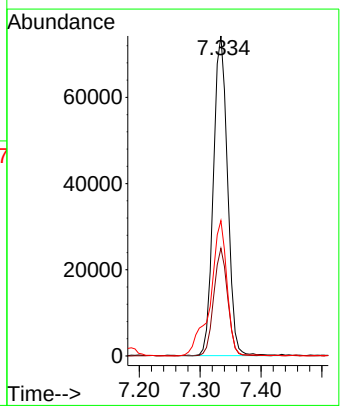


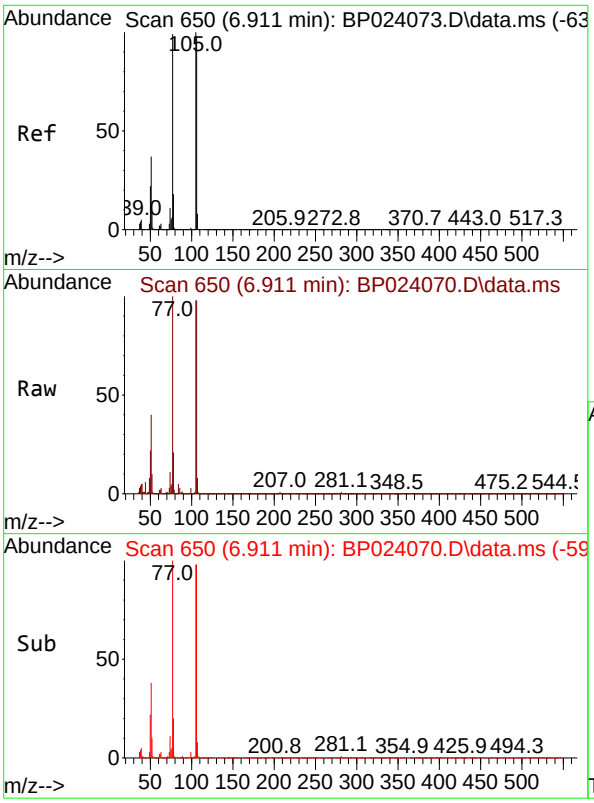


#8
2-Chlorophenol
Concen: 4.560 ng
RT: 7.334 min Scan# 722
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:128 Resp: 119587

Ion	Ratio	Lower	Upper
128	100		
130	33.7	11.5	51.5
64	42.3	19.8	59.8



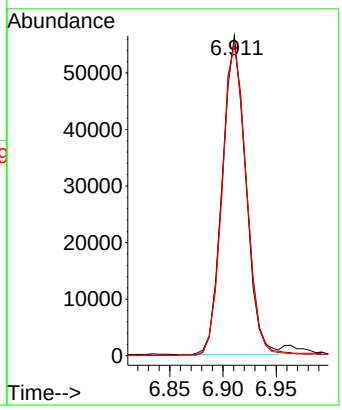


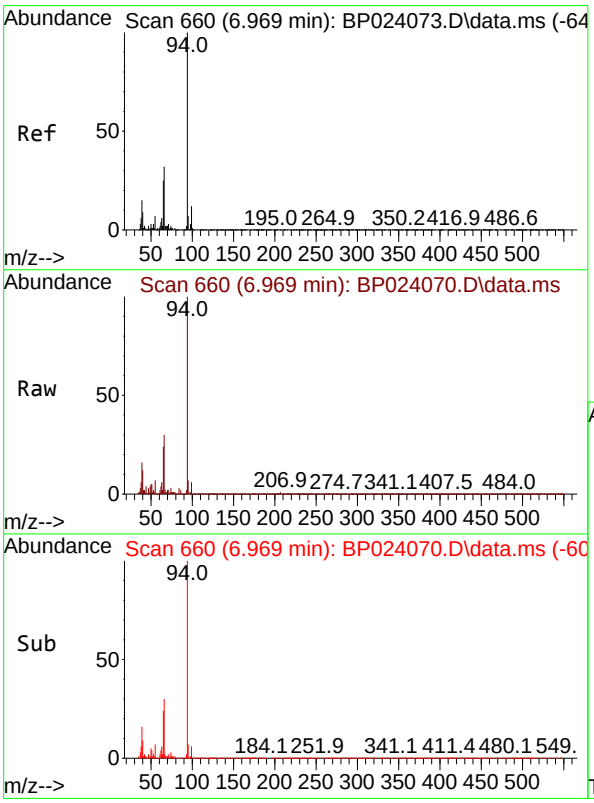
#9
Benzaldehyde
Concen: 5.905 ng
RT: 6.911 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 85861

Ion	Ratio	Lower	Upper
77	100		
105	97.5	81.4	121.4
106	97.6	79.0	119.0

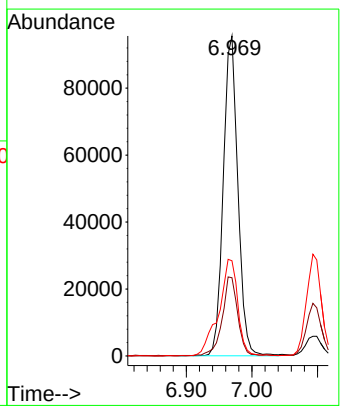


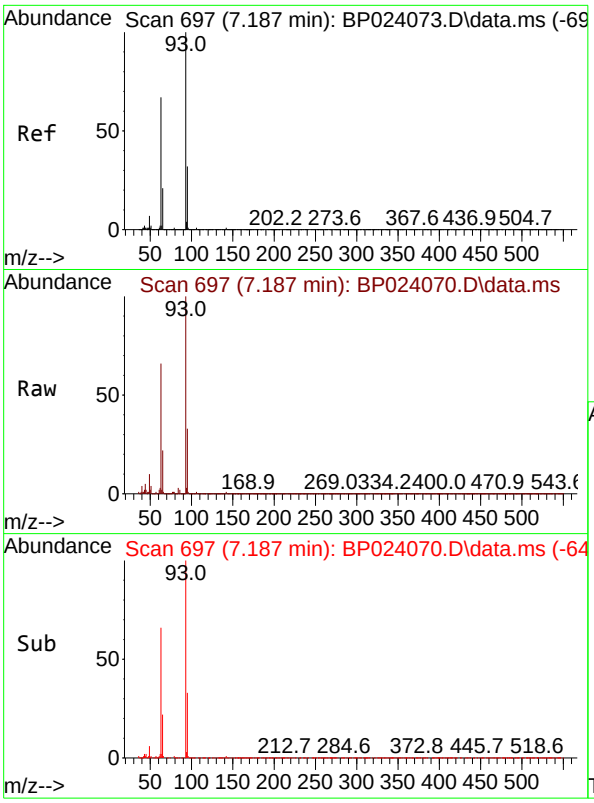


#10
Phenol
Concen: 4.601 ng
RT: 6.969 min Scan# 660
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 94 Resp: 147368

Ion	Ratio	Lower	Upper
94	100		
65	24.4	5.0	45.0
66	29.7	11.6	51.6



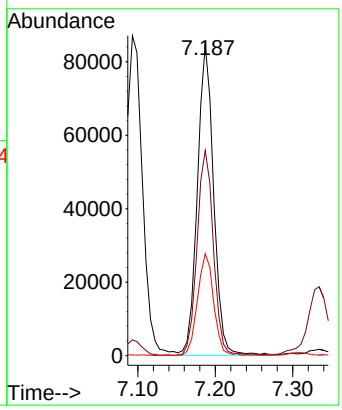


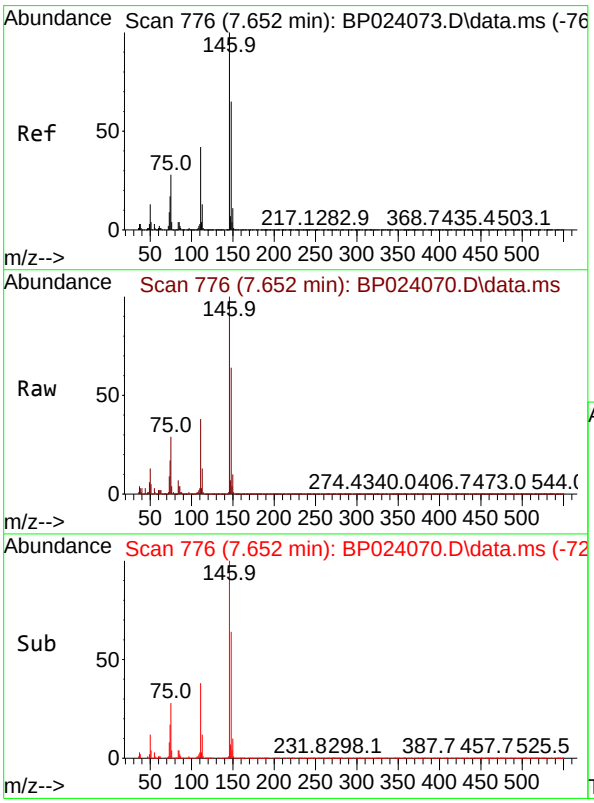
#11
bis(2-Chloroethyl)ether
Concen: 4.879 ng
RT: 7.187 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 123063

Ion	Ratio	Lower	Upper
93	100		
63	65.9	46.5	86.5
95	32.7	12.3	52.3

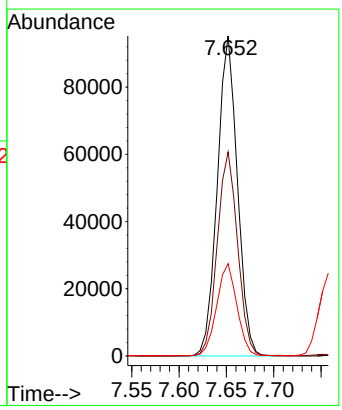


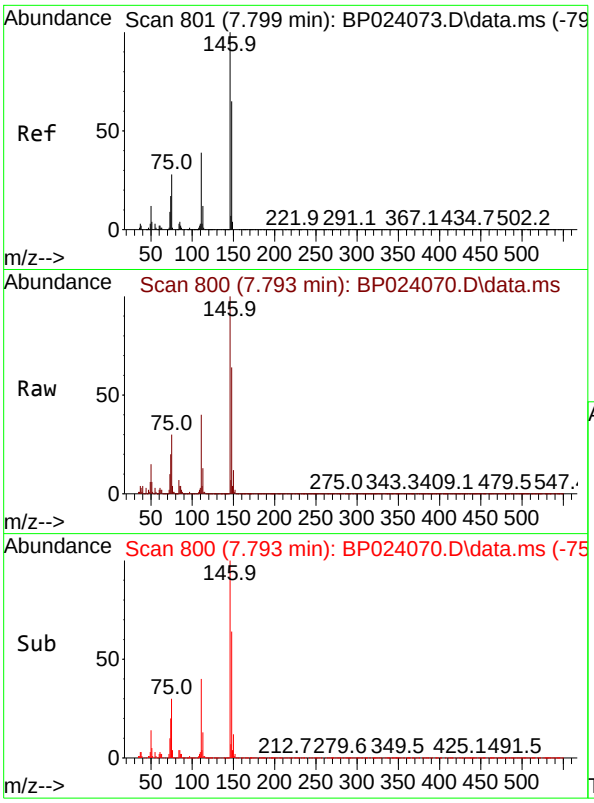


#12
1,3-Dichlorobenzene
Concen: 4.870 ng
RT: 7.652 min Scan# 776
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:146 Resp: 140323

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.8
75	28.9	22.6	33.8



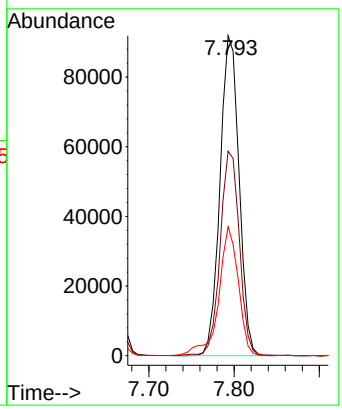


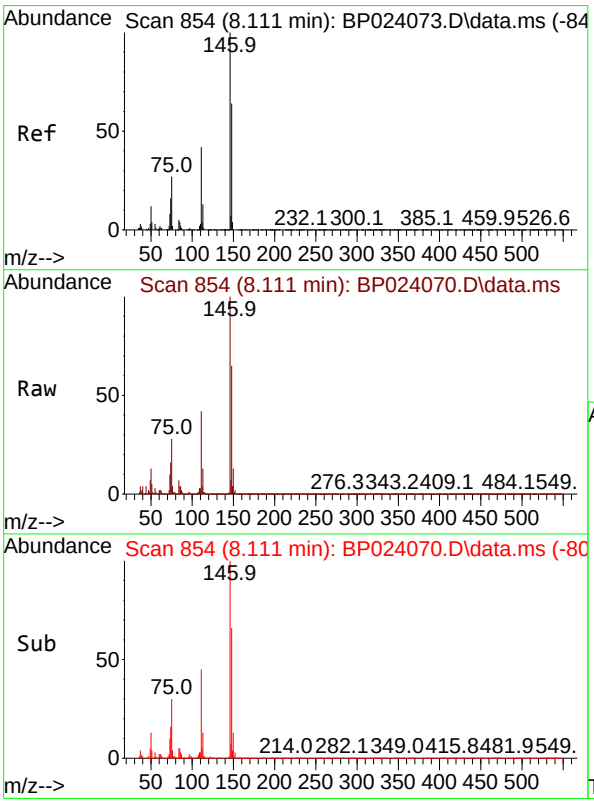
#13
1,4-Dichlorobenzene
Concen: 4.893 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 142583

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.6	77.4
111	40.3	31.2	46.8

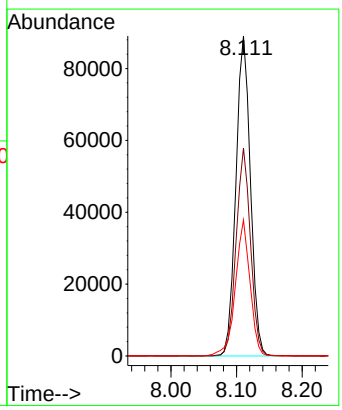


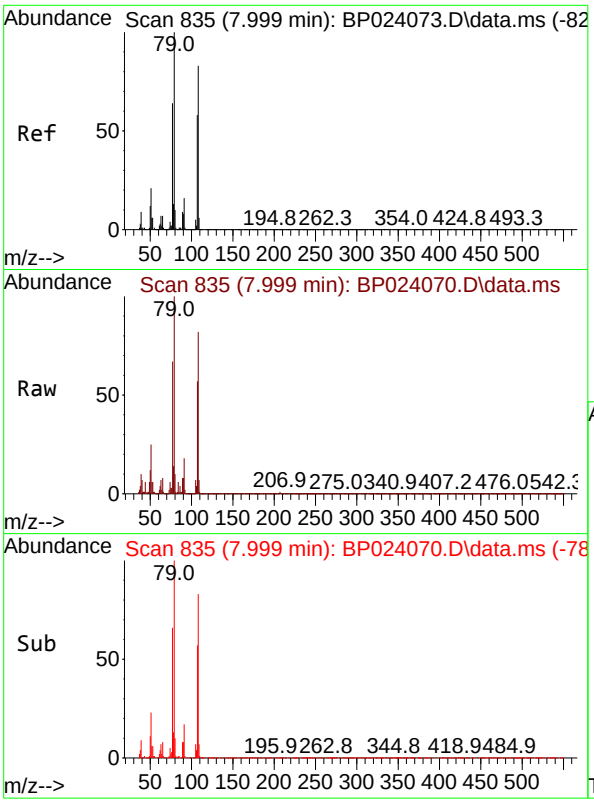


#14
1,2-Dichlorobenzene
Concen: 4.908 ng
RT: 8.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:146 Resp: 137258

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.2	76.8
111	42.5	33.4	50.0



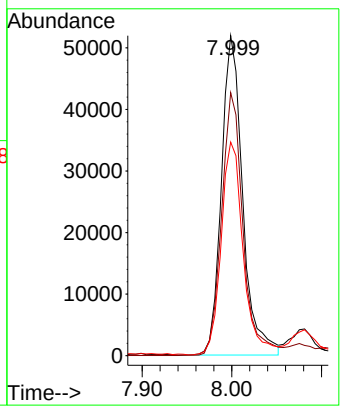


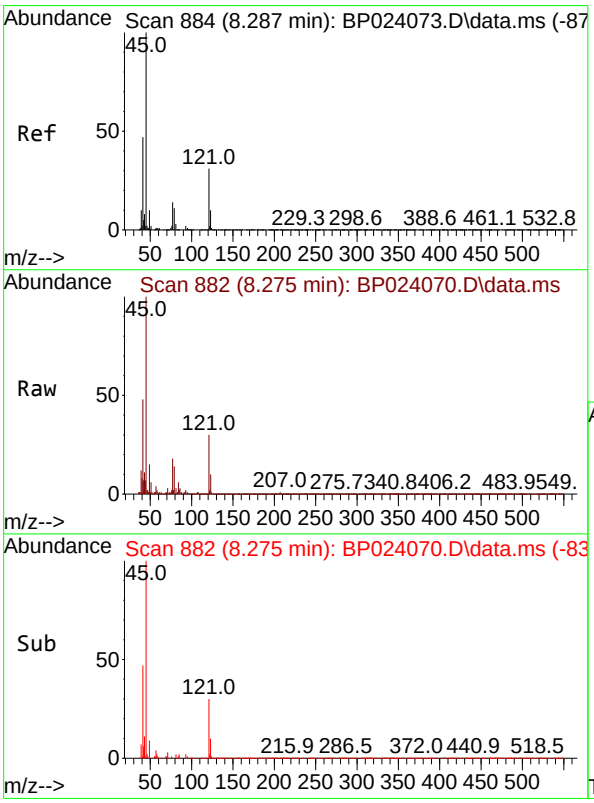
#15
Benzyl Alcohol
Concen: 4.384 ng
RT: 7.999 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 85473

Ion	Ratio	Lower	Upper
79	100		
108	82.2	66.4	99.6
77	66.8	51.3	76.9

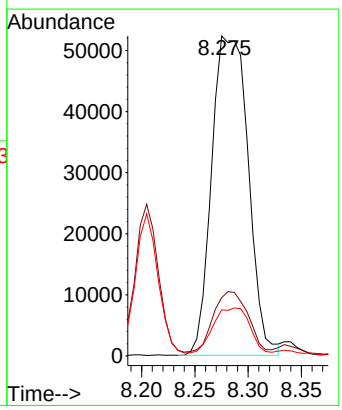


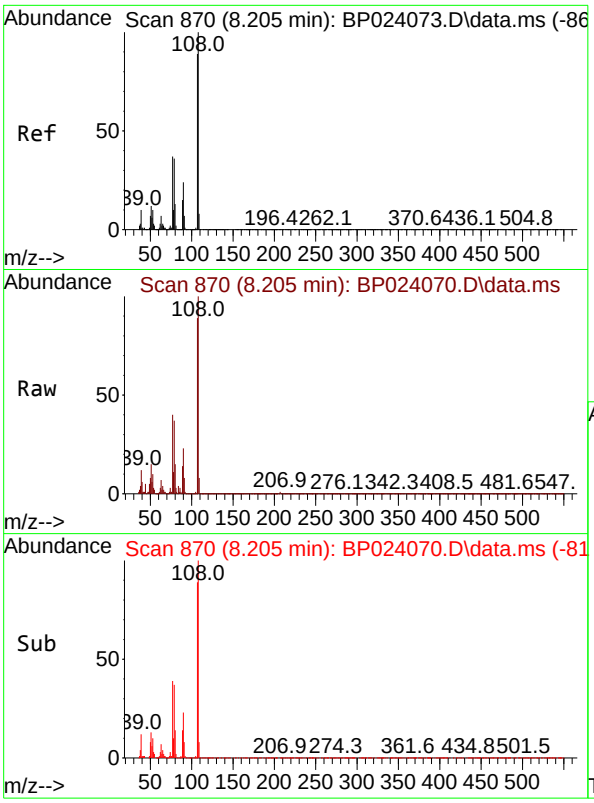


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.087 ng
RT: 8.275 min Scan# 882
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 45 Resp: 124560

Ion	Ratio	Lower	Upper
45	100		
77	18.3	0.0	38.8
79	14.4	0.0	35.4



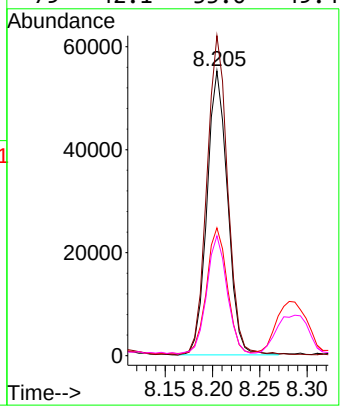


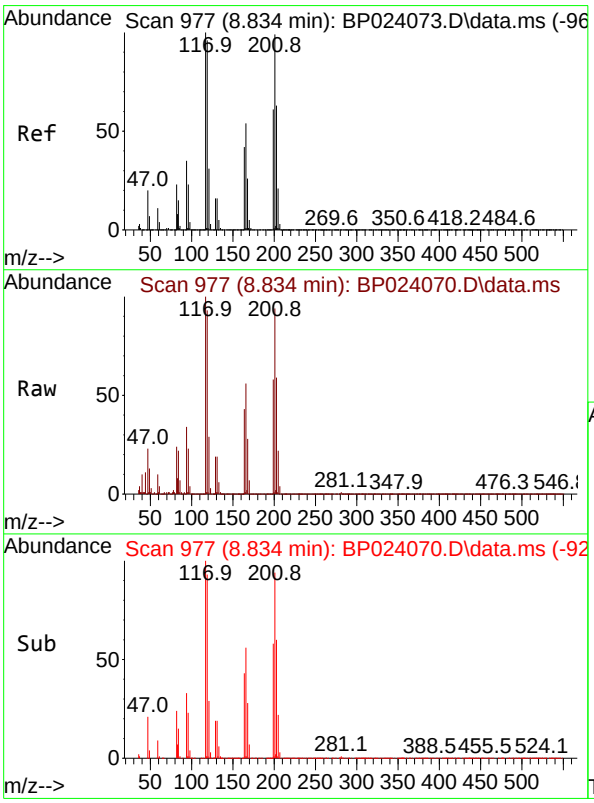
#17
2-Methylphenol
Concen: 4.286 ng
RT: 8.205 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 83657

Ion	Ratio	Lower	Upper
107	100		
108	112.4	90.0	135.0
77	44.9	33.8	50.6
79	42.1	33.0	49.4

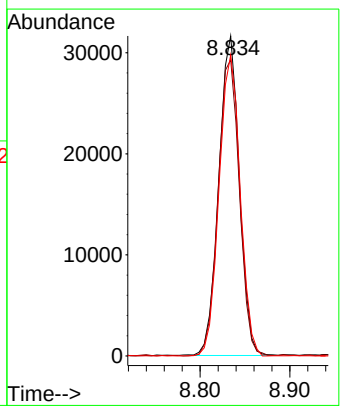


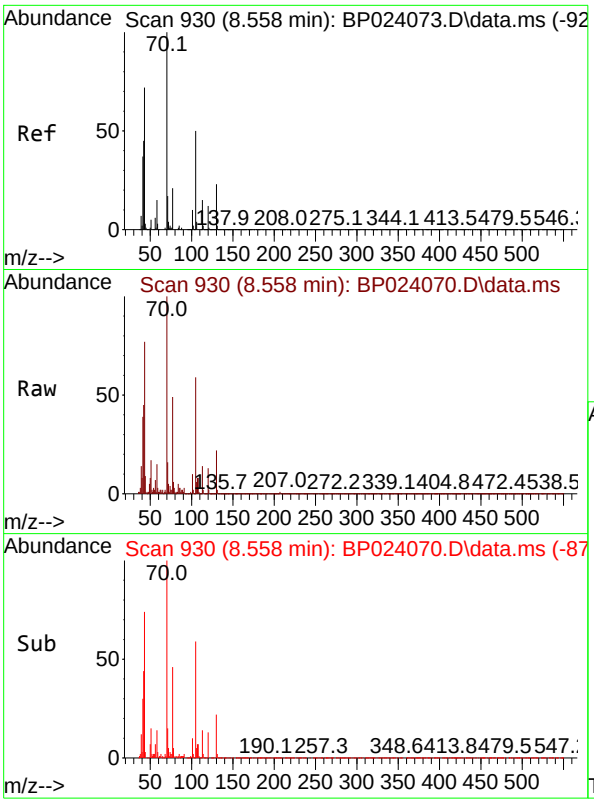


#18
Hexachloroethane
Concen: 4.785 ng
RT: 8.834 min Scan# 977
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:117 Resp: 50215

Ion	Ratio	Lower	Upper
117	100		
119	92.5	76.9	115.3
201	94.0	79.4	119.2



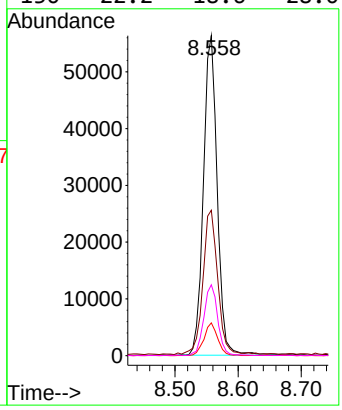


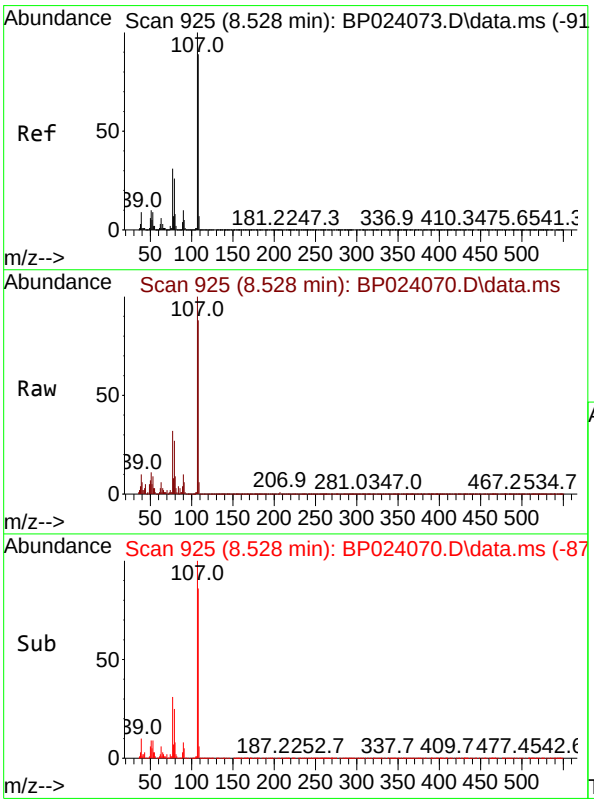
#19
n-Nitroso-di-n-propylamine
Concen: 4.996 ng
RT: 8.558 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 85546

Ion	Ratio	Lower	Upper
70	100		
42	45.5	36.6	54.8
101	10.2	8.2	12.2
130	22.2	18.6	28.0

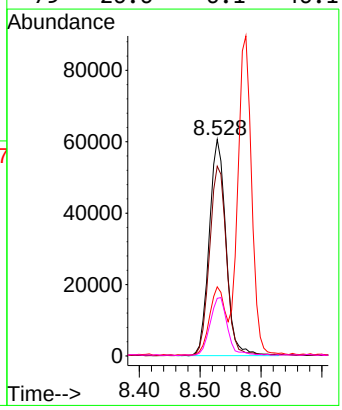


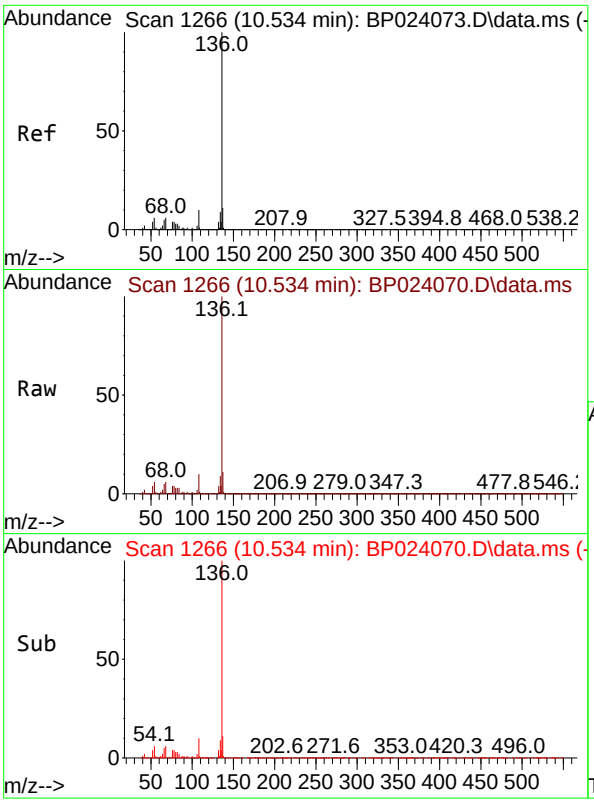


#20
3+4-Methylphenols
Concen: 4.367 ng
RT: 8.528 min Scan# 925
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:107 Resp: 115932

Ion	Ratio	Lower	Upper
107	100		
108	87.6	68.5	108.5
77	32.0	10.7	50.7
79	26.6	6.1	46.1



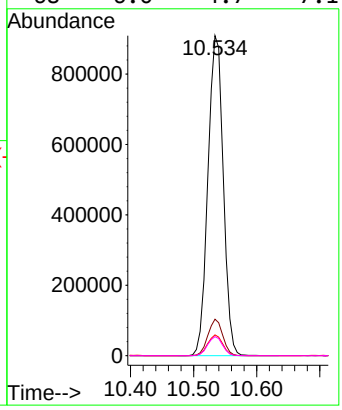


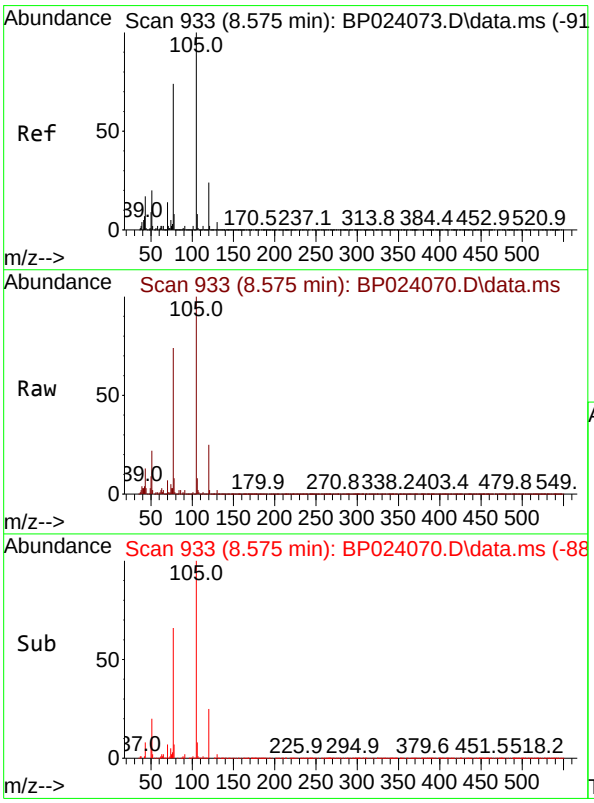
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 1534795

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.7	13.1
54	6.5	4.9	7.3
68	6.0	4.7	7.1

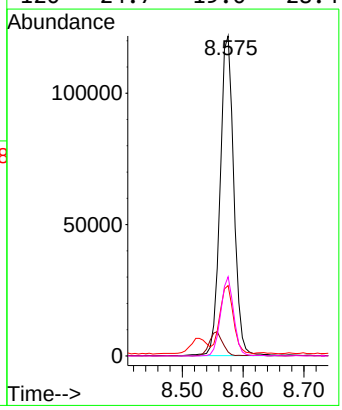


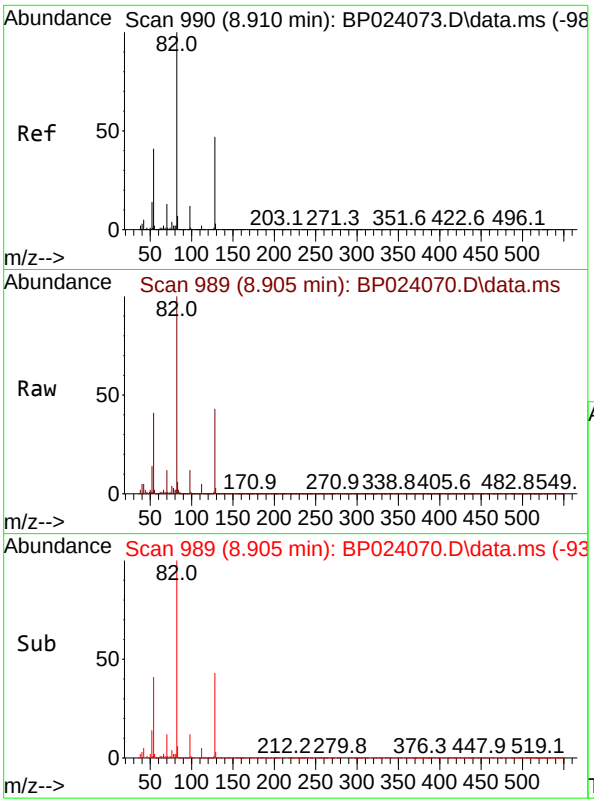


#22
Acetophenone
Concen: 4.831 ng
RT: 8.575 min Scan# 933
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:105 Resp: 190516

Ion	Ratio	Lower	Upper
105	100		
71	1.3	1.9	2.9#
51	22.0	16.3	24.5
120	24.7	19.0	28.4



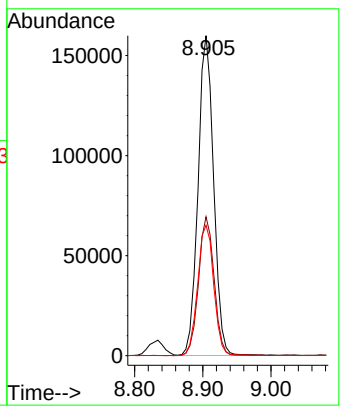


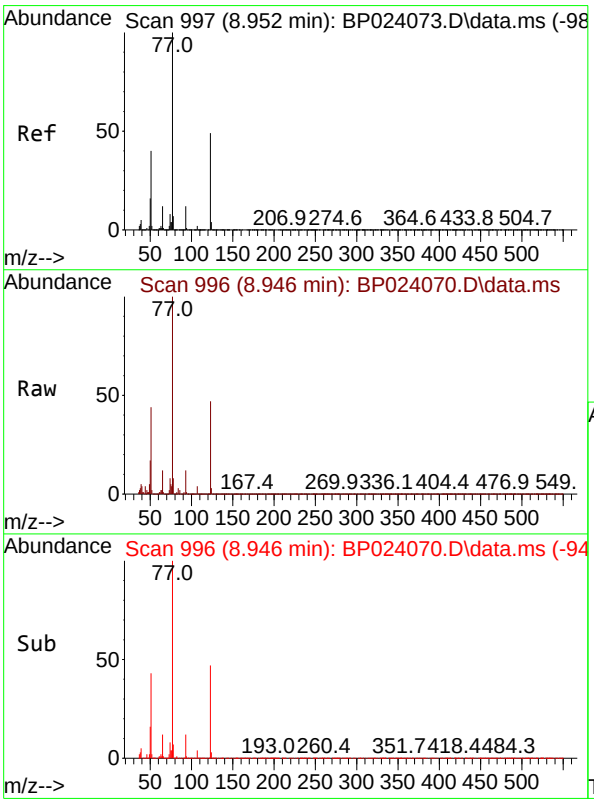
#23
Nitrobenzene-d5
Concen: 9.217 ng
RT: 8.905 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 253560

Ion	Ratio	Lower	Upper
82	100		
128	43.4	37.4	56.2
54	40.8	32.4	48.6

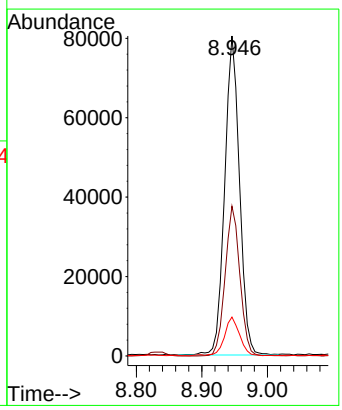


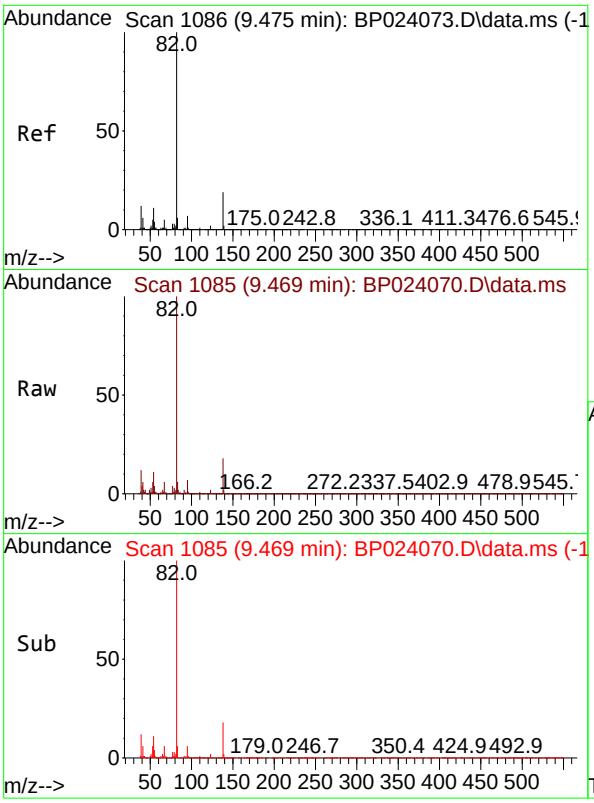


#24
Nitrobenzene
Concen: 4.656 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 77 Resp: 126072

Ion	Ratio	Lower	Upper
77	100		
123	46.8	39.4	59.2
65	12.2	9.9	14.9



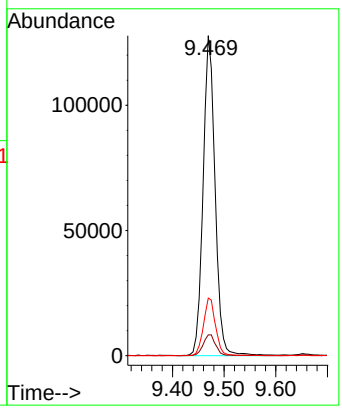


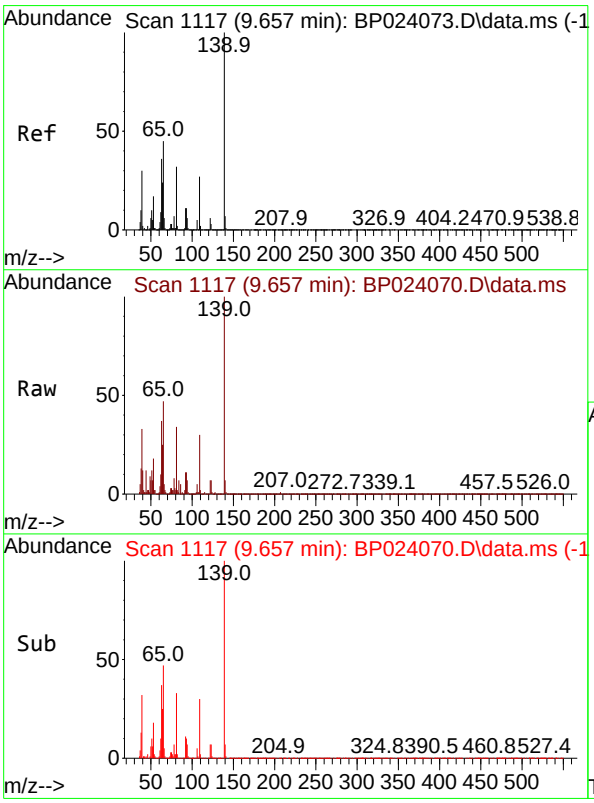
#25
Isophorone
Concen: 4.568 ng
RT: 9.469 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 205517

Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.4	8.0
138	18.0	15.3	22.9

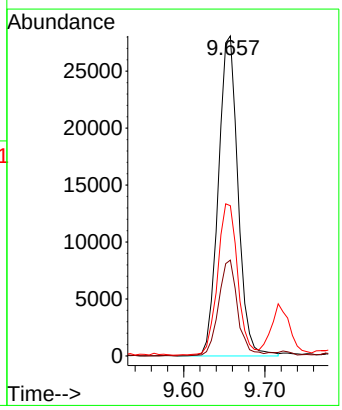


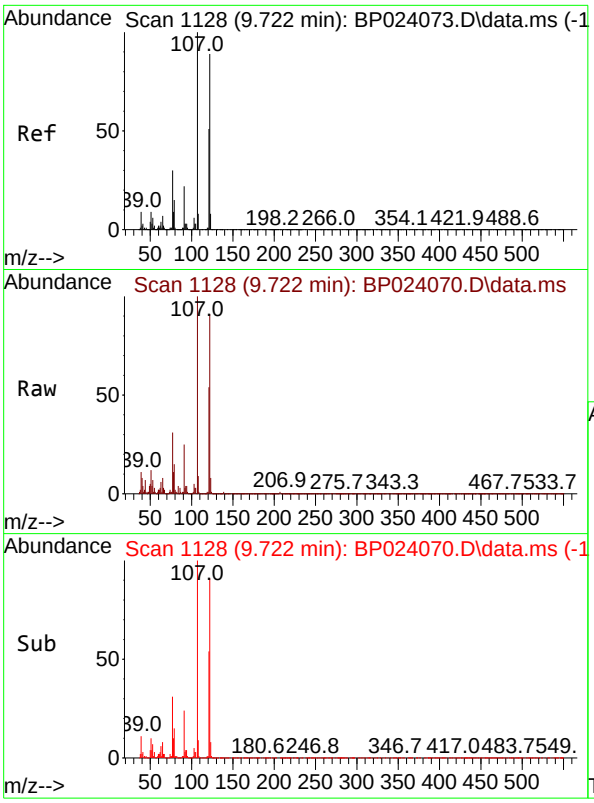


#26
2-Nitrophenol
Concen: 3.783 ng
RT: 9.657 min Scan# 1117
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:139 Resp: 47187

Ion	Ratio	Lower	Upper
139	100		
109	29.9	21.7	32.5
65	46.9	36.1	54.1



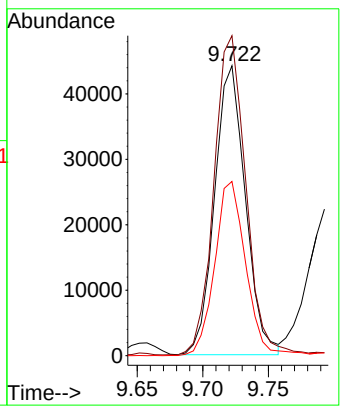


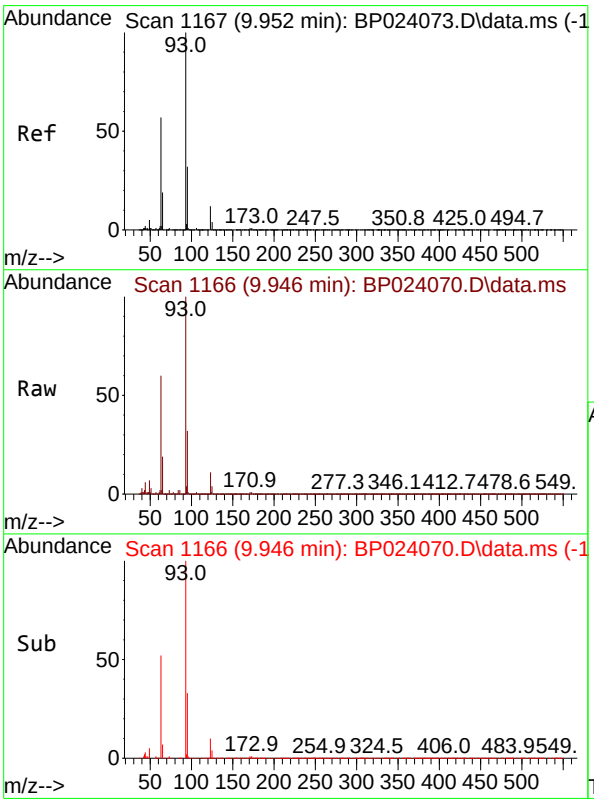
#27
2,4-Dimethylphenol
Concen: 4.415 ng
RT: 9.722 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 72295

Ion	Ratio	Lower	Upper
122	100		
107	110.3	89.8	134.8
121	60.1	45.9	68.9

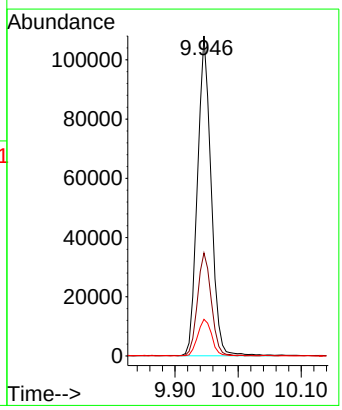


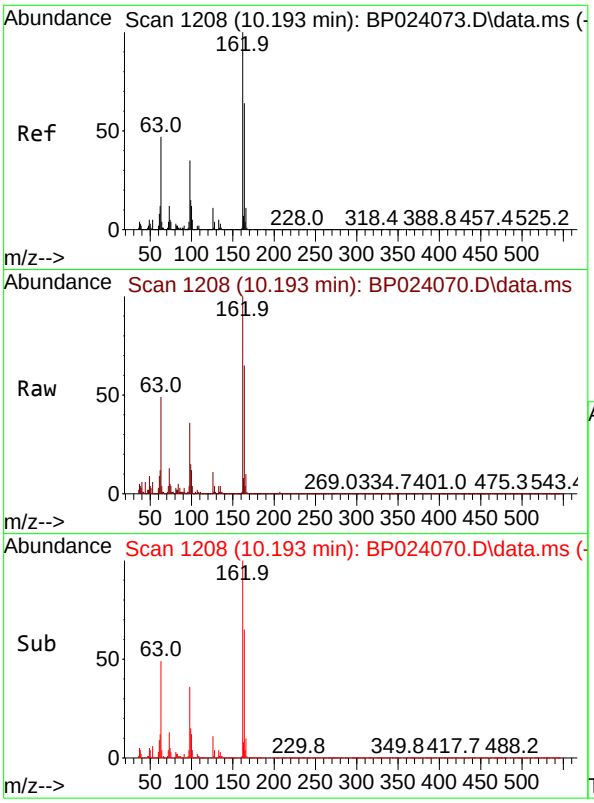


#28
bis(2-Chloroethoxy)methane
Concen: 4.983 ng
RT: 9.946 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 93 Resp: 162407

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.9	38.9
123	11.4	9.7	14.5



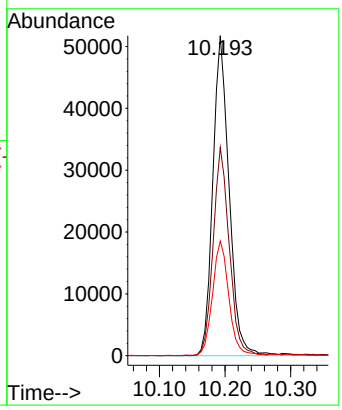


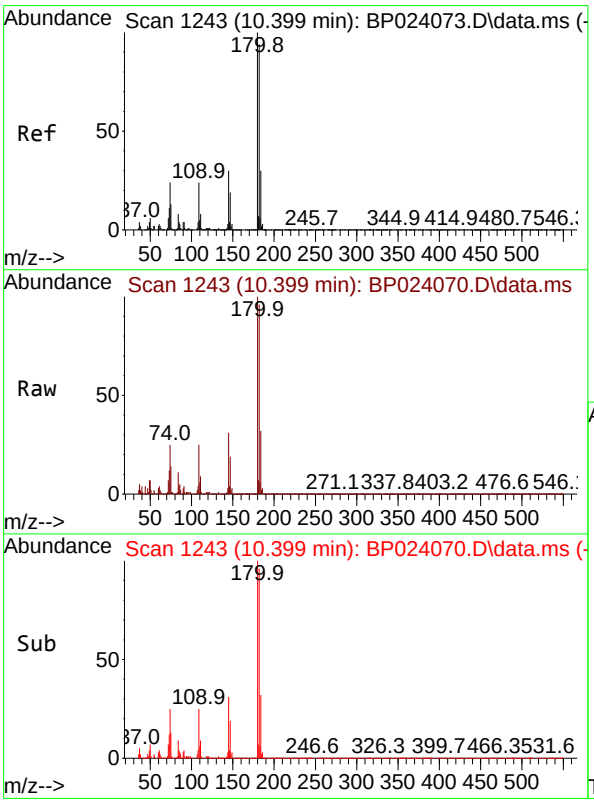
#29
2,4-Dichlorophenol
Concen: 3.981 ng
RT: 10.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 88946

Ion	Ratio	Lower	Upper
162	100		
164	65.1	44.5	84.5
98	35.9	15.3	55.3

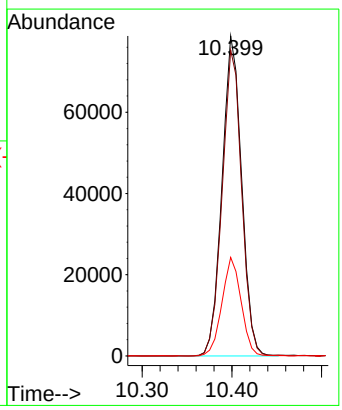


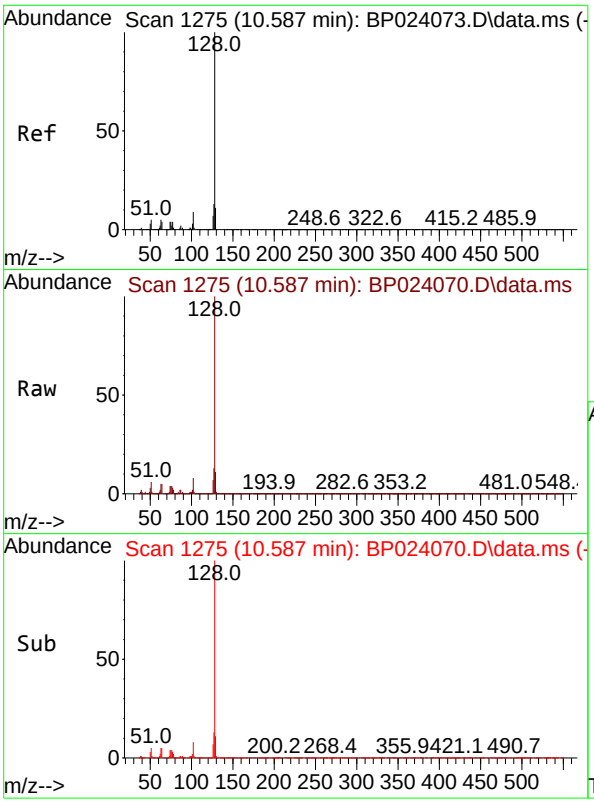


#30
1,2,4-Trichlorobenzene
Concen: 4.658 ng
RT: 10.399 min Scan# 1243
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:180 Resp: 119252

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.4	113.2
145	30.8	24.0	36.0



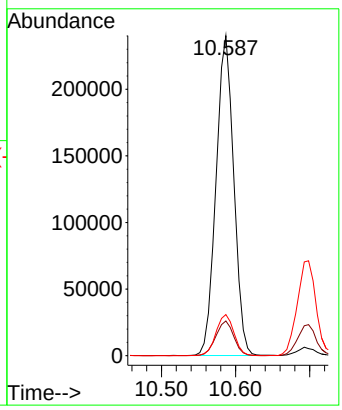


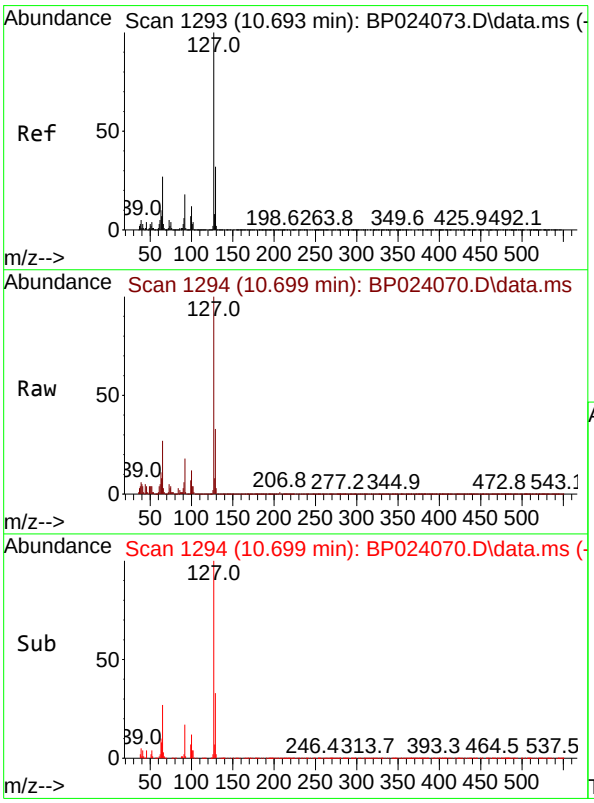
#31
Naphthalene
Concen: 4.833 ng
RT: 10.587 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 398806

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.9	10.3	15.5

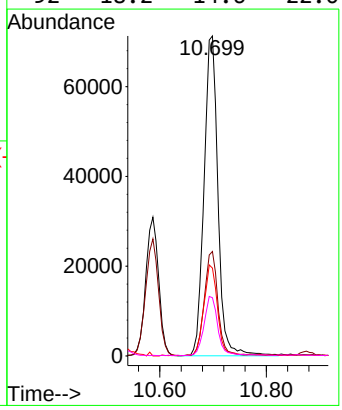


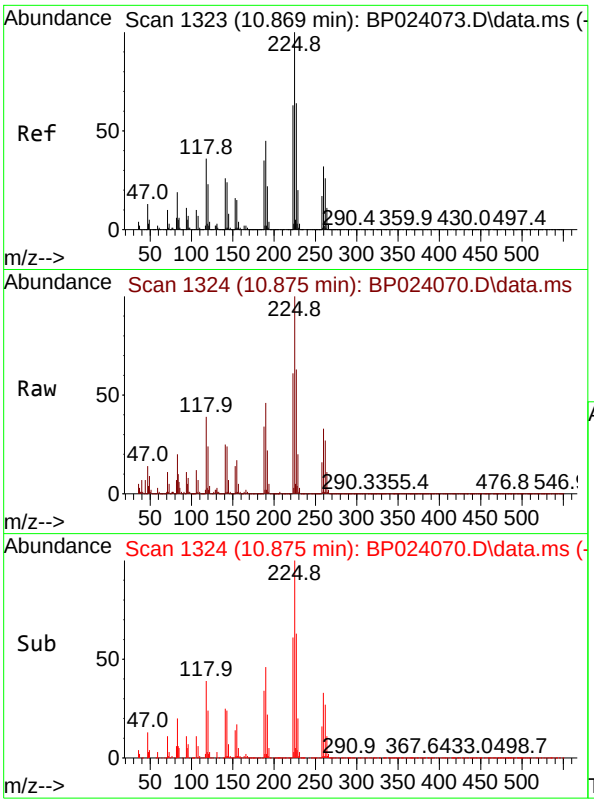


#33
4-Chloroaniline
Concen: 4.452 ng
RT: 10.699 min Scan# 1294
Delta R.T. 0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:127 Resp: 129418

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.4	38.0
65	27.4	21.3	31.9
92	18.2	14.6	22.0



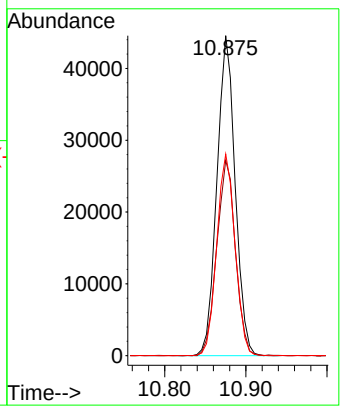


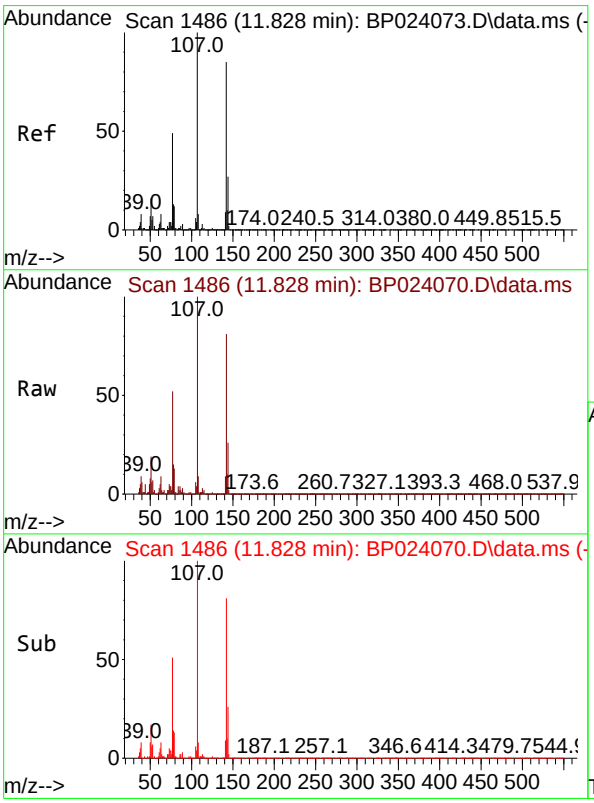
#34
Hexachlorobutadiene
Concen: 4.702 ng
RT: 10.875 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 69721

Ion	Ratio	Lower	Upper
225	100		
223	61.1	50.5	75.7
227	63.0	51.3	76.9

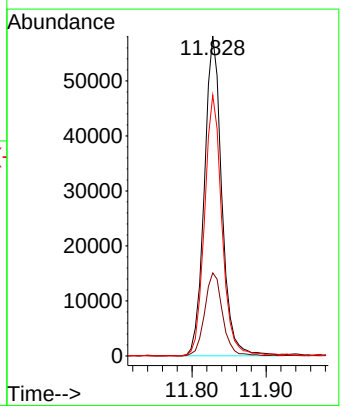


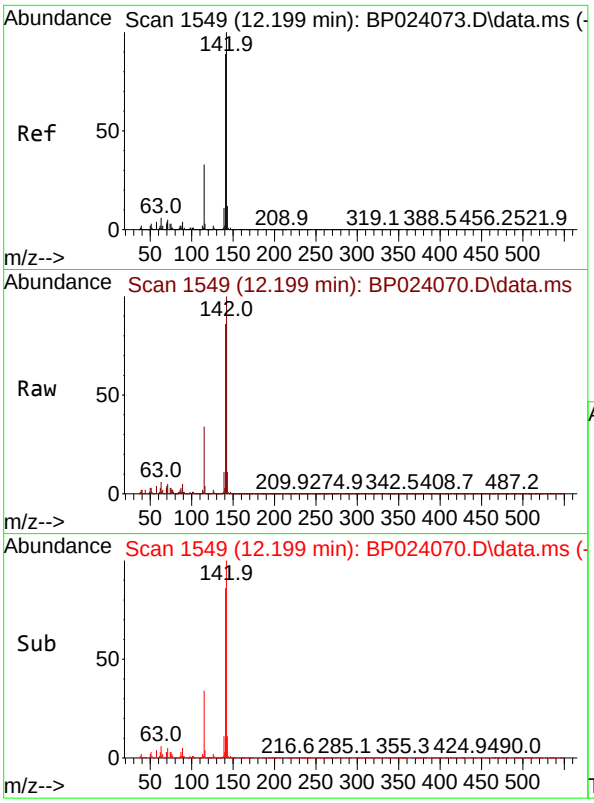


#36
4-Chloro-3-methylphenol
Concen: 4.139 ng
RT: 11.828 min Scan# 1486
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:107 Resp: 95067

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.8	32.8
142	81.5	67.8	101.8



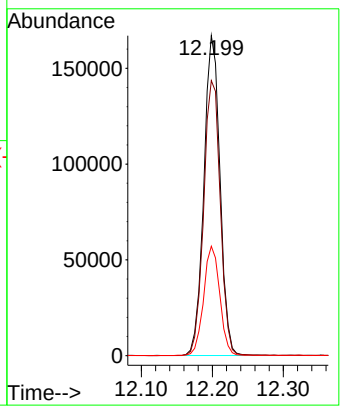


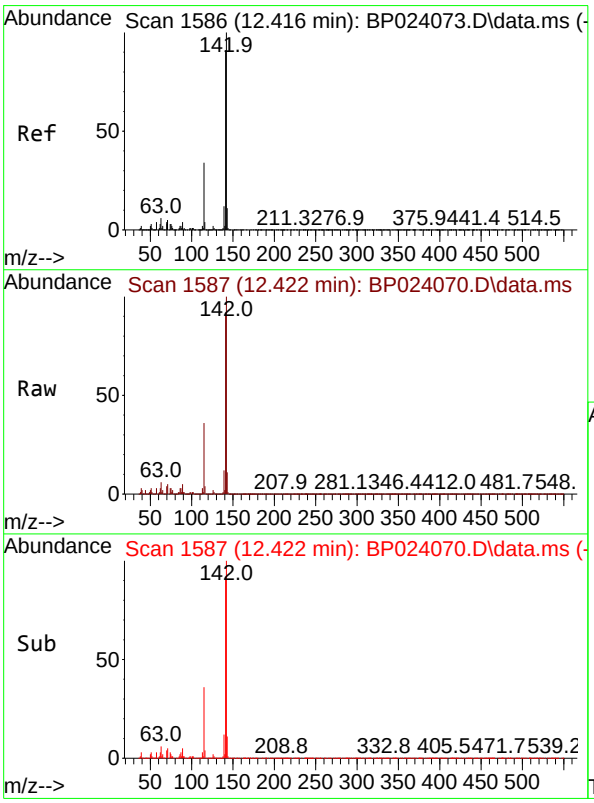
#37
2-Methylnaphthalene
Concen: 4.811 ng
RT: 12.199 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 263903

Ion	Ratio	Lower	Upper
142	100		
141	85.9	71.2	106.8
115	34.2	26.5	39.7

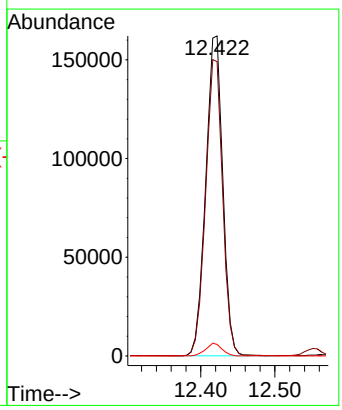


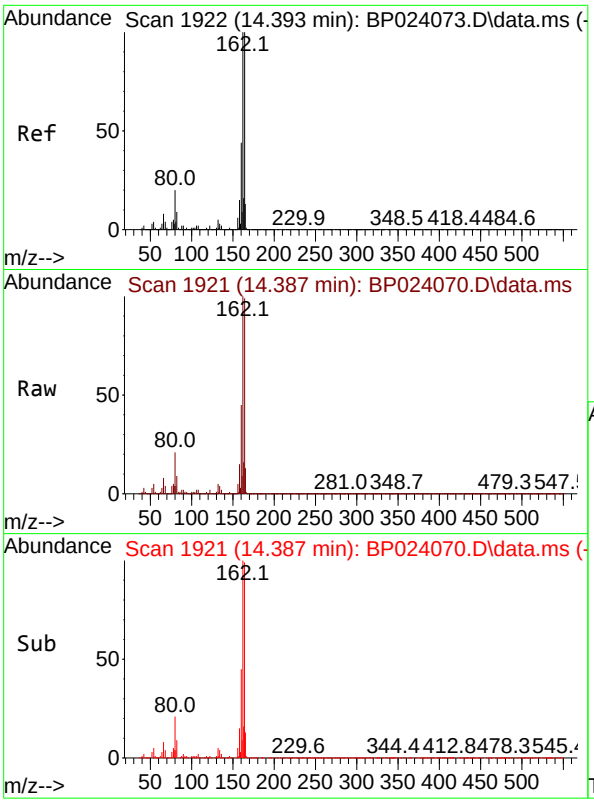


#38
1-Methylnaphthalene
Concen: 4.850 ng
RT: 12.422 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:142 Resp: 258773

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.0	109.6
116	3.6	2.8	4.2



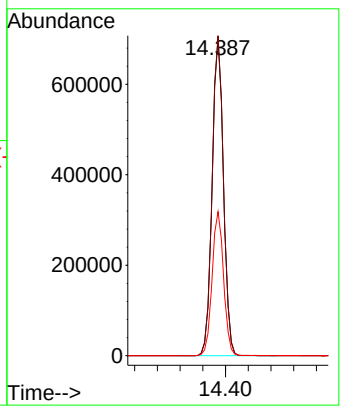


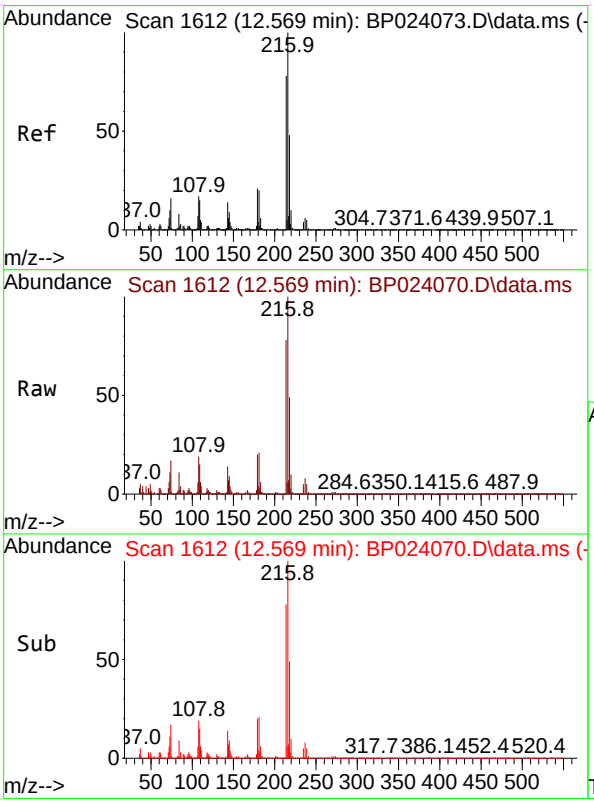
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.387 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 965513

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.1	120.1
160	45.4	35.6	53.4

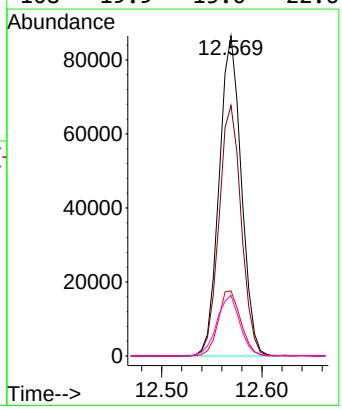


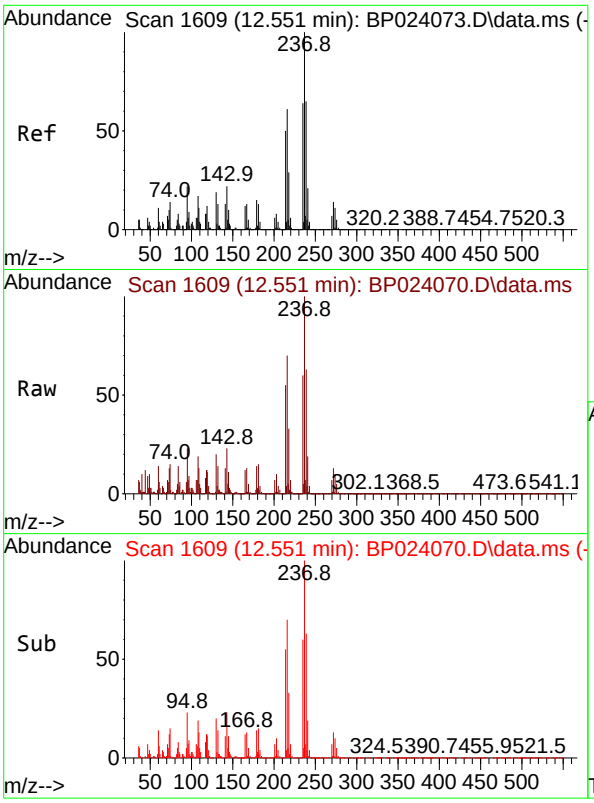


#40
1,2,4,5-Tetrachlorobenzene
Concen: 4.462 ng
RT: 12.569 min Scan# 1612
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:216 Resp: 132362

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.7	94.1
179	20.7	16.6	25.0
108	19.9	15.0	22.6



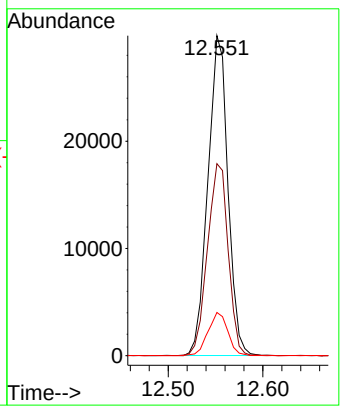


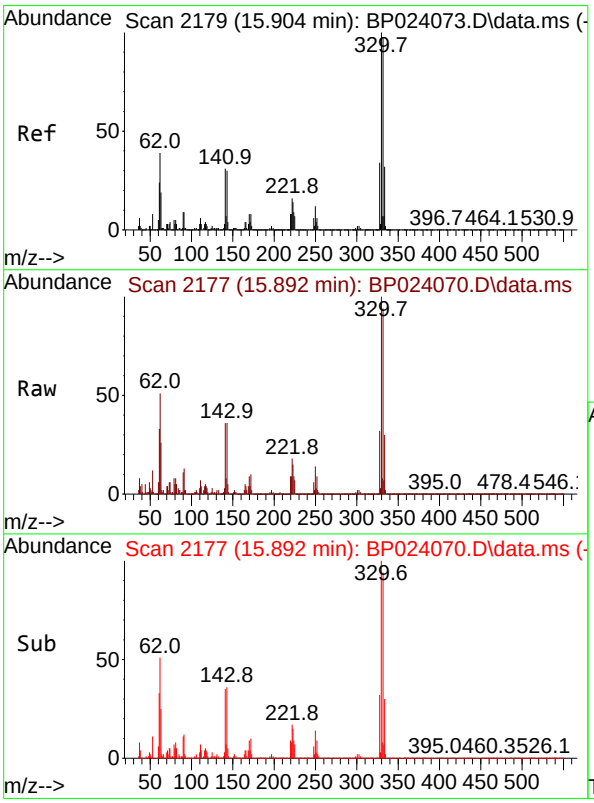
#41
Hexachlorocyclopentadiene
Concen: 3.961 ng
RT: 12.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 43723

Ion	Ratio	Lower	Upper
237	100		
235	60.0	43.5	83.5
272	13.5	0.0	33.7

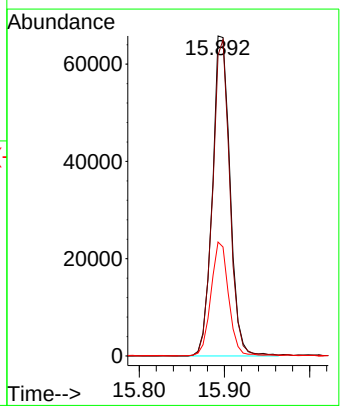


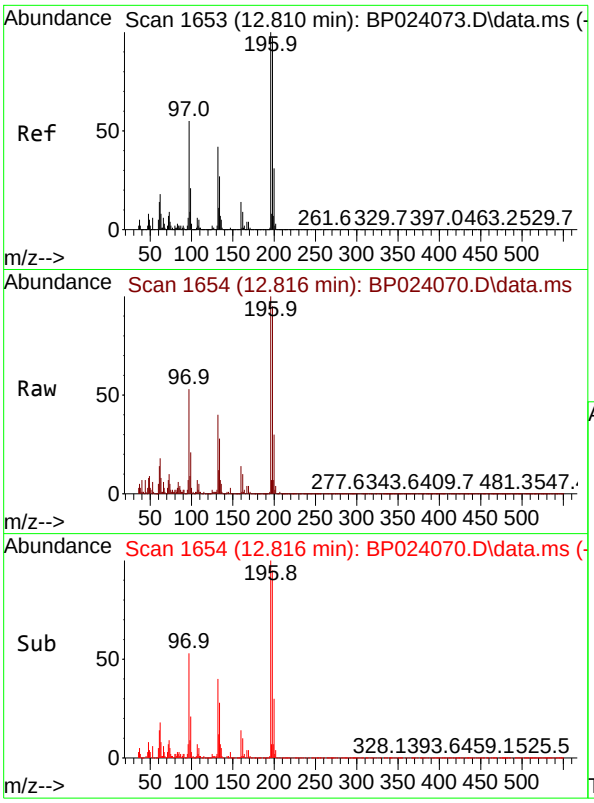


#42
2,4,6-Tribromophenol
Concen: 8.012 ng
RT: 15.892 min Scan# 2177
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:330 Resp: 94753

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.0	115.4
141	35.5	28.3	42.5



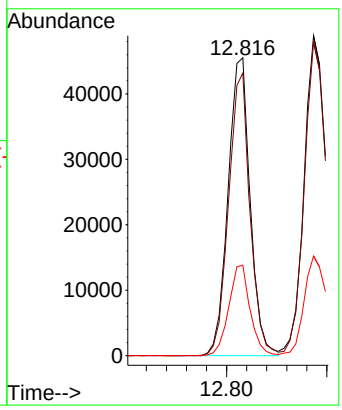


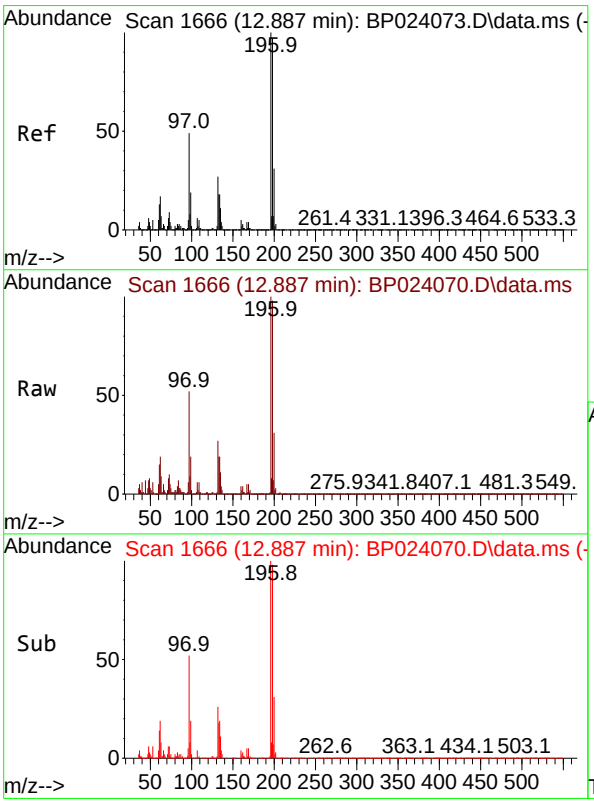
#43
2,4,6-Trichlorophenol
Concen: 3.847 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 69599

Ion	Ratio	Lower	Upper
196	100		
198	94.9	77.8	116.6
200	30.3	25.0	37.4

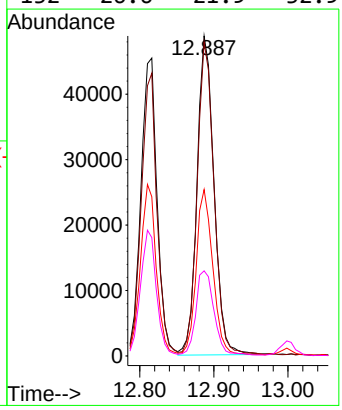


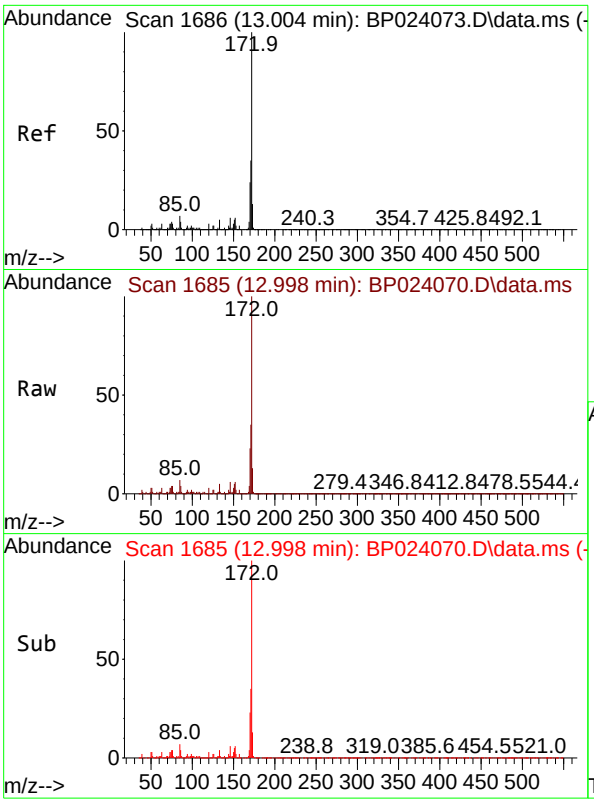


#44
2,4,5-Trichlorophenol
Concen: 3.925 ng
RT: 12.887 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:196 Resp: 77654

Ion	Ratio	Lower	Upper
196	100		
198	98.0	77.4	116.2
97	52.0	39.0	58.4
132	26.6	21.9	32.9



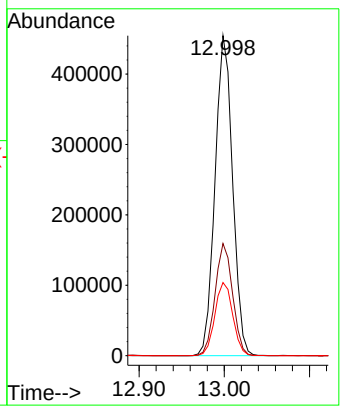


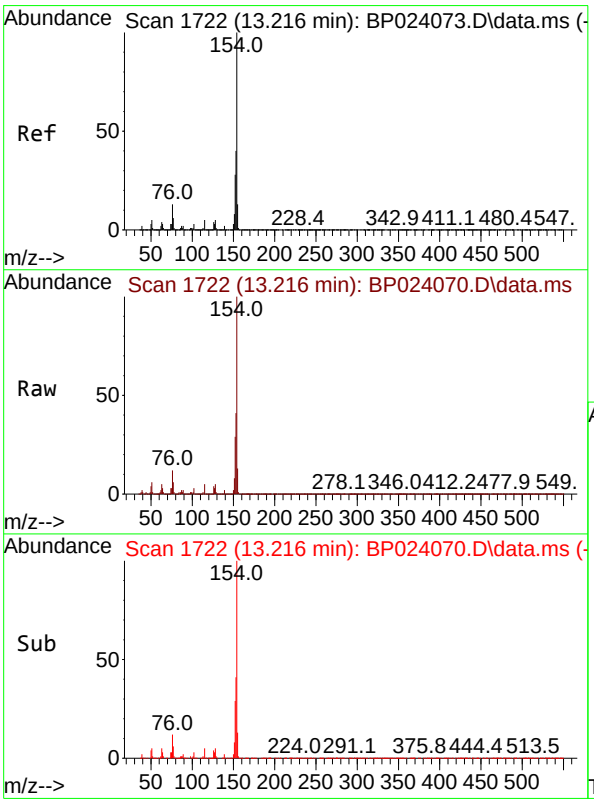
#45
2-Fluorobiphenyl
Concen: 9.444 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 652264

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.2	42.2
170	22.9	19.0	28.6

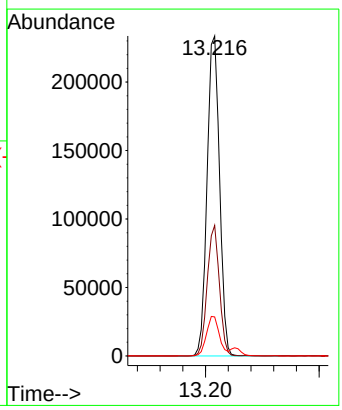


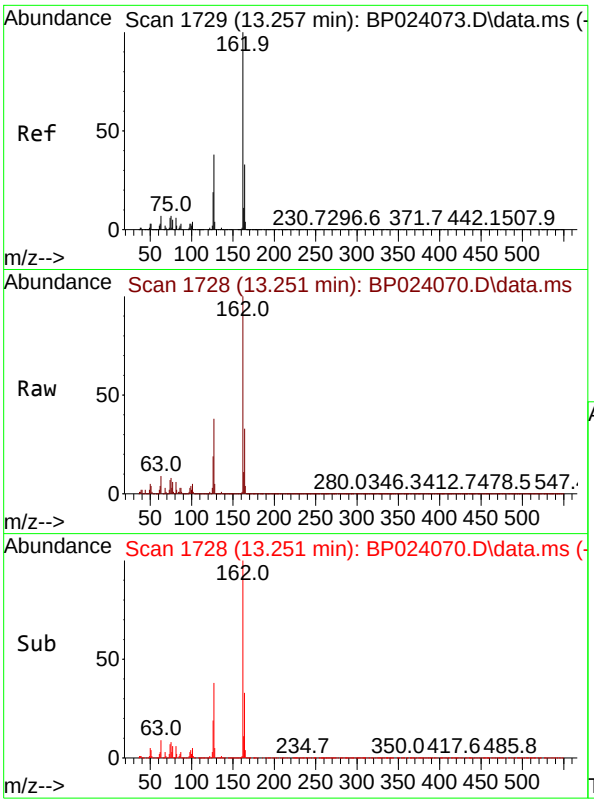


#46
1,1'-Biphenyl
Concen: 4.714 ng
RT: 13.216 min Scan# 1722
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:154 Resp: 353639

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.0	60.0
76	12.2	0.0	32.6



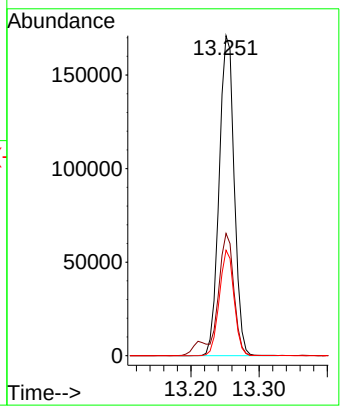


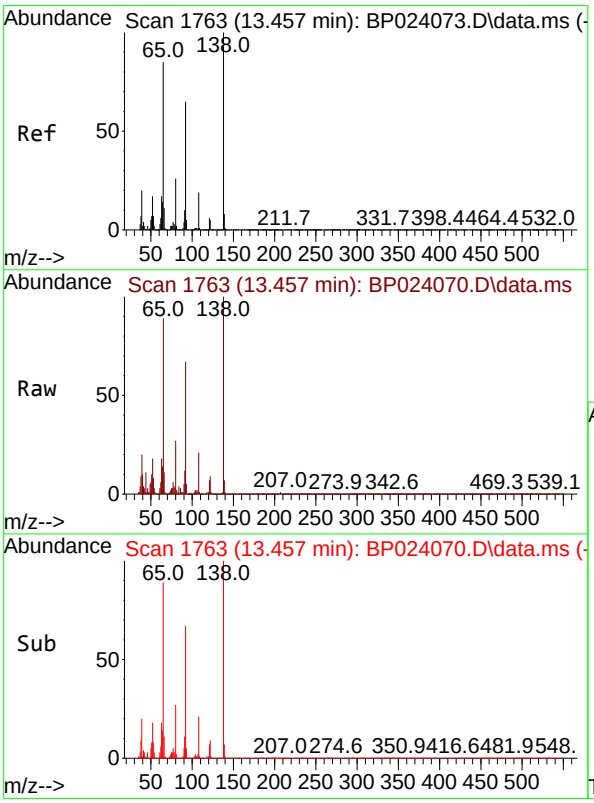
#47
2-Chloronaphthalene
Concen: 4.634 ng
RT: 13.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 262820

Ion	Ratio	Lower	Upper
162	100		
127	38.2	30.7	46.1
164	33.0	26.6	39.8

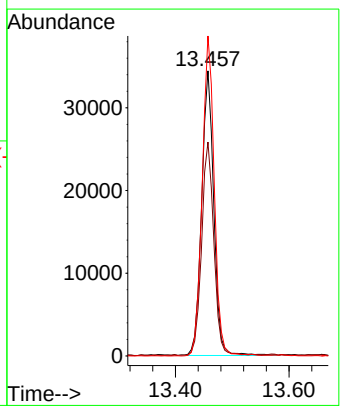


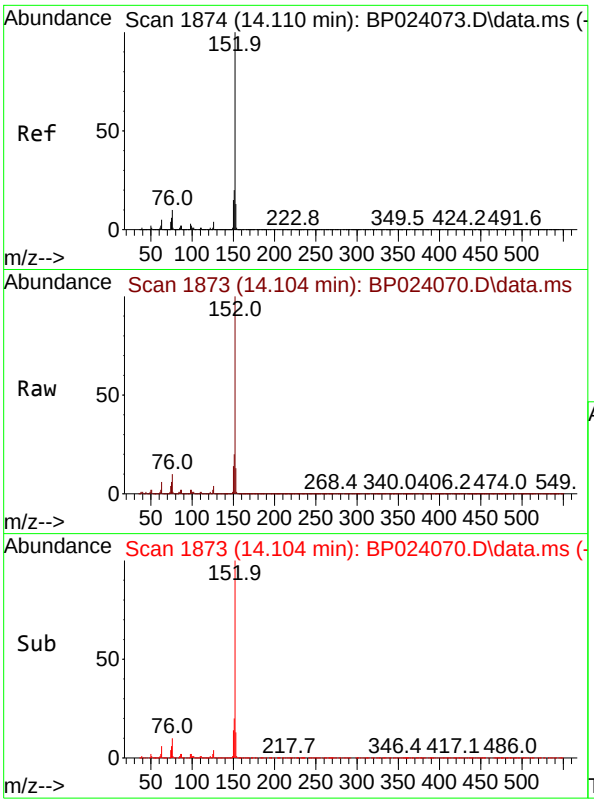


#48
2-Nitroaniline
Concen: 3.800 ng
RT: 13.457 min Scan# 1763
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion: 65 Resp: 50912

Ion	Ratio	Lower	Upper
65	100		
92	75.0	61.7	92.5
138	112.2	94.6	142.0



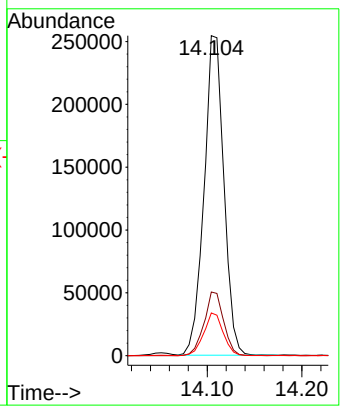


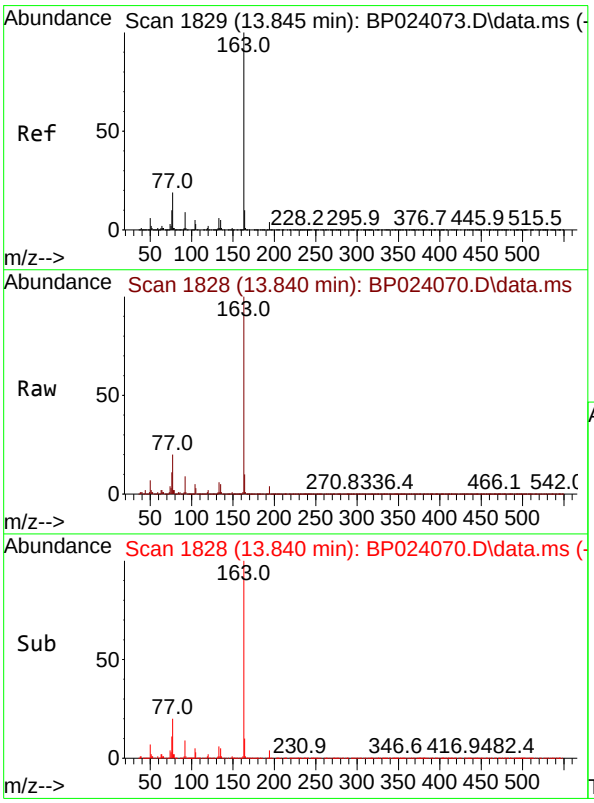
#49
Acenaphthylene
Concen: 4.408 ng
RT: 14.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 368336

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	13.4	10.7	16.1

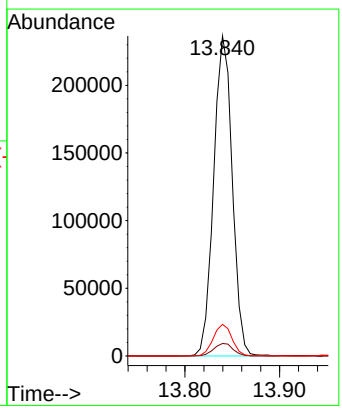


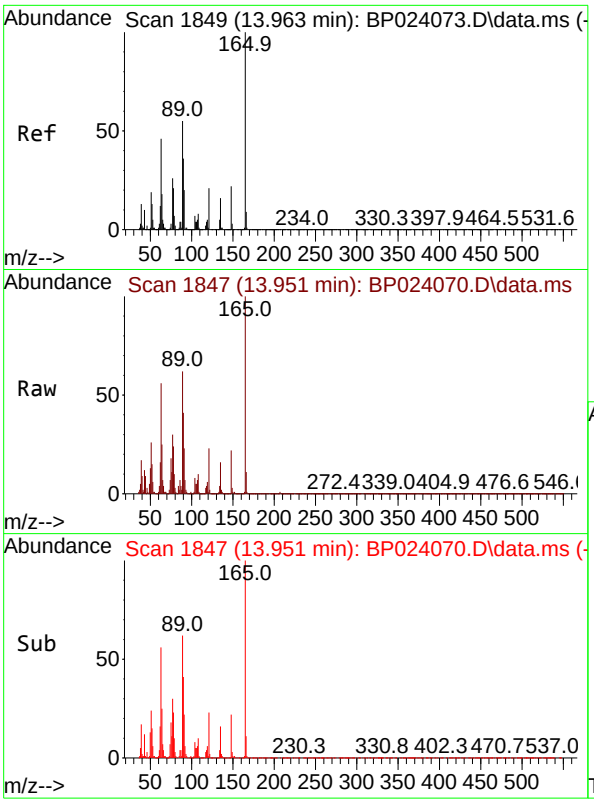


#50
Dimethylphthalate
Concen: 4.749 ng
RT: 13.840 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:163 Resp: 323452

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.2
164	9.9	8.1	12.1



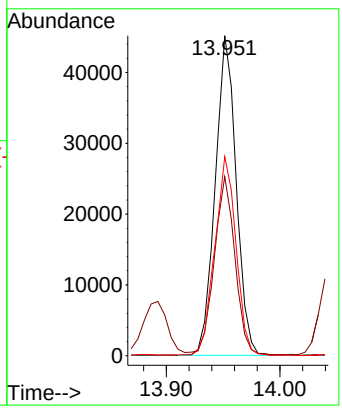


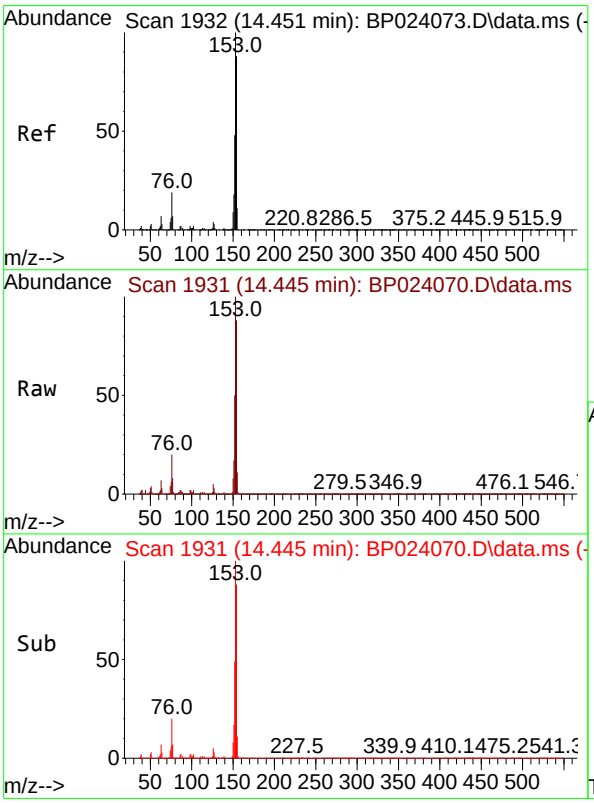
#51
2,6-Dinitrotoluene
Concen: 4.173 ng
RT: 13.951 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 57895

Ion	Ratio	Lower	Upper
165	100		
63	55.9	40.1	60.1
89	62.2	44.2	66.4

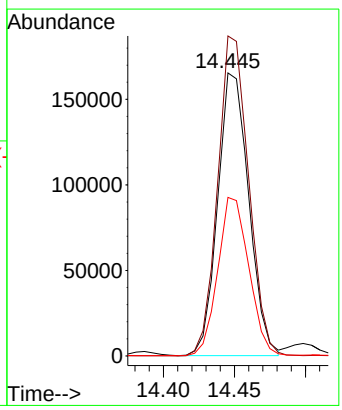


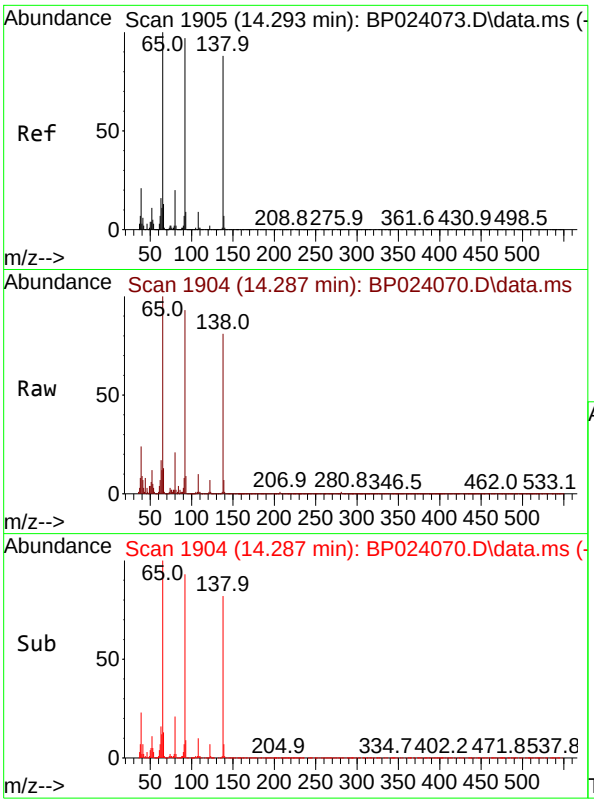


#52
Acenaphthene
Concen: 4.665 ng
RT: 14.445 min Scan# 1931
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:154 Resp: 251033

Ion	Ratio	Lower	Upper
154	100		
153	113.1	90.6	135.8
152	56.1	43.6	65.4



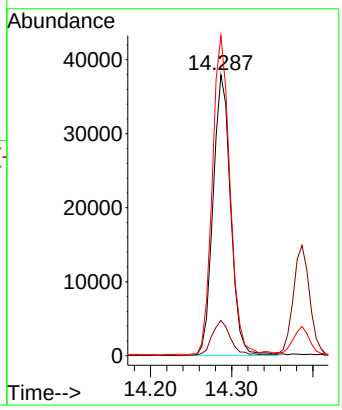


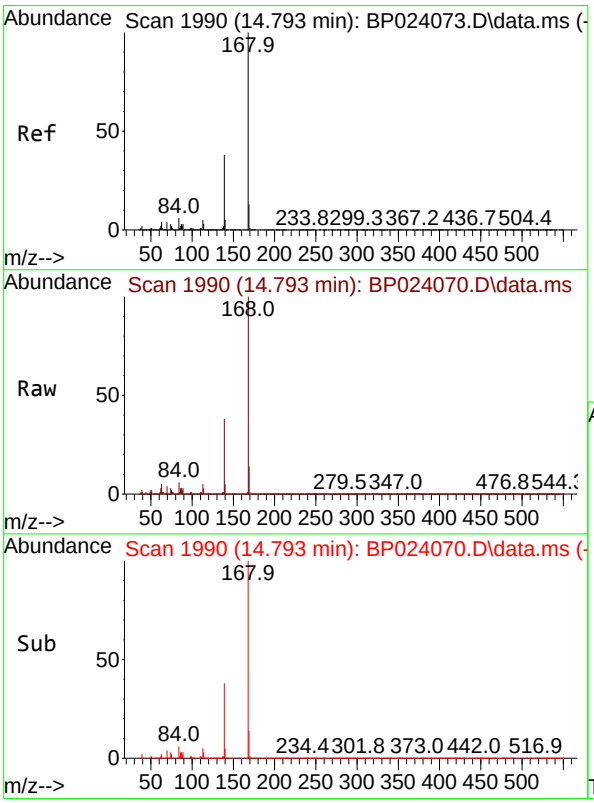
#53
3-Nitroaniline
Concen: 3.854 ng
RT: 14.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 57055

Ion	Ratio	Lower	Upper
138	100		
108	12.5	7.8	11.8#
92	114.0	88.4	132.6

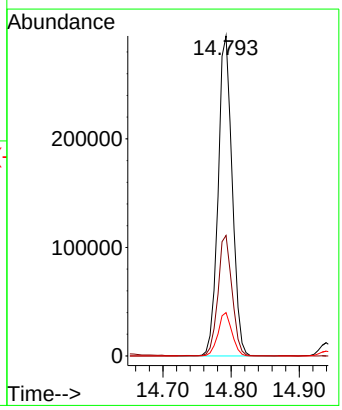


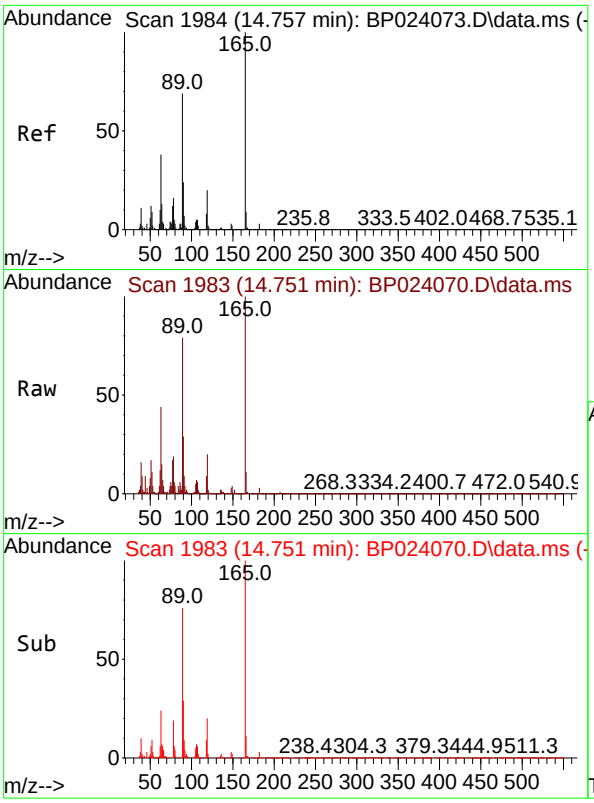


#55
Dibenzofuran
Concen: 4.829 ng
RT: 14.793 min Scan# 1990
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:168 Resp: 422141

Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.2	45.2
169	13.5	10.7	16.1



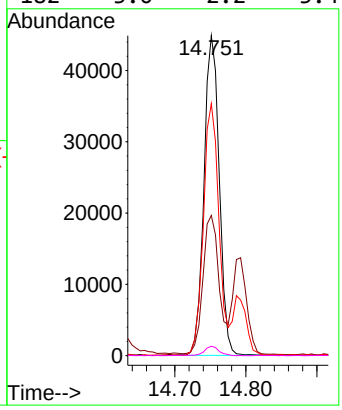


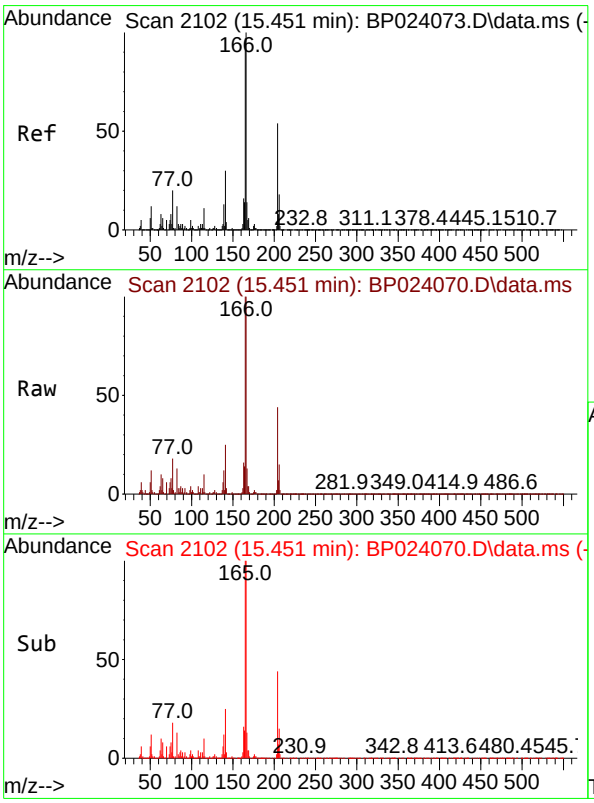
#57
2,4-Dinitrotoluene
Concen: 3.725 ng
RT: 14.751 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 67125

Ion	Ratio	Lower	Upper
165	100		
63	43.8	30.4	45.6
89	78.8	54.8	82.2
182	3.0	2.2	3.4

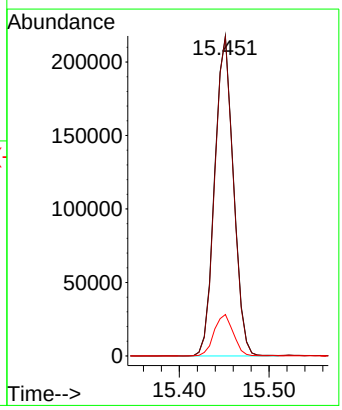


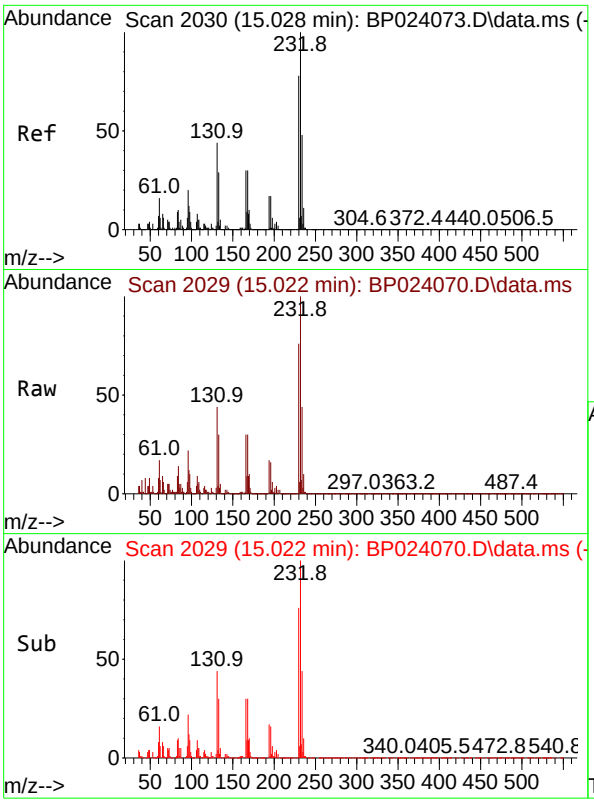


#58
Fluorene
Concen: 4.635 ng
RT: 15.451 min Scan# 2102
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:166 Resp: 316460

Ion	Ratio	Lower	Upper
166	100		
165	99.6	77.5	116.3
167	13.0	10.9	16.3



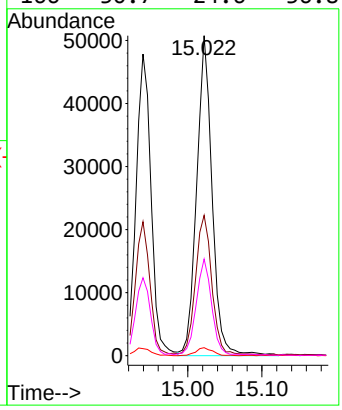


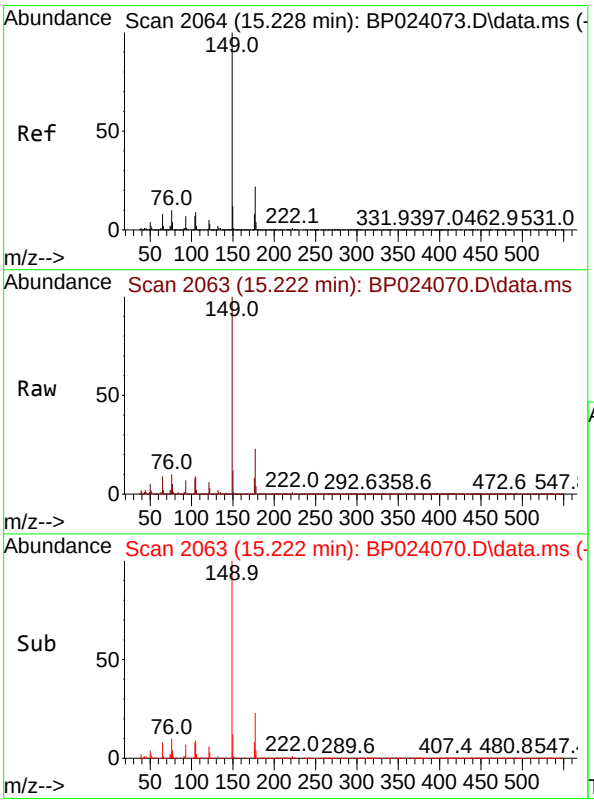
#59
2,3,4,6-Tetrachlorophenol
Concen: 4.287 ng
RT: 15.022 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:232 Resp: 73599

Ion	Ratio	Lower	Upper
232	100		
131	45.9	37.3	55.9
130	2.7	1.9	2.9
166	30.7	24.6	36.8

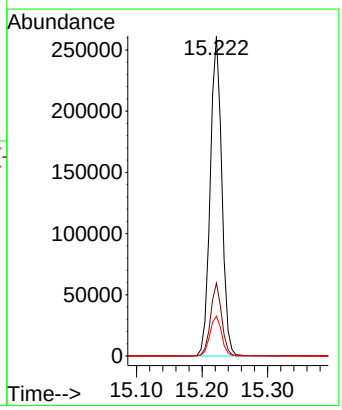


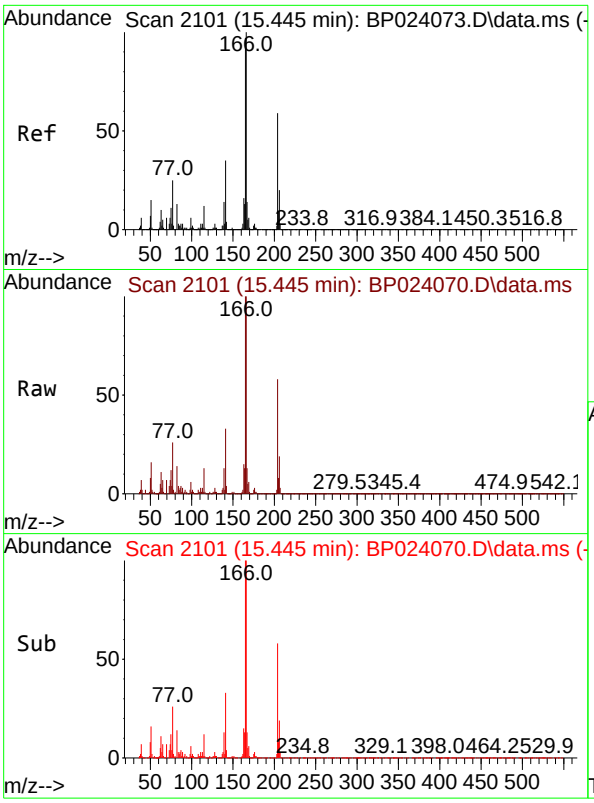


#60
Diethylphthalate
Concen: 4.737 ng
RT: 15.222 min Scan# 2063
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:149 Resp: 320288

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.9	26.9
150	12.5	9.8	14.6



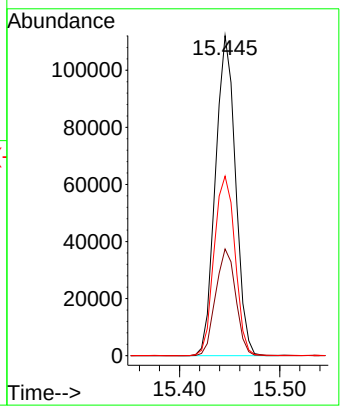


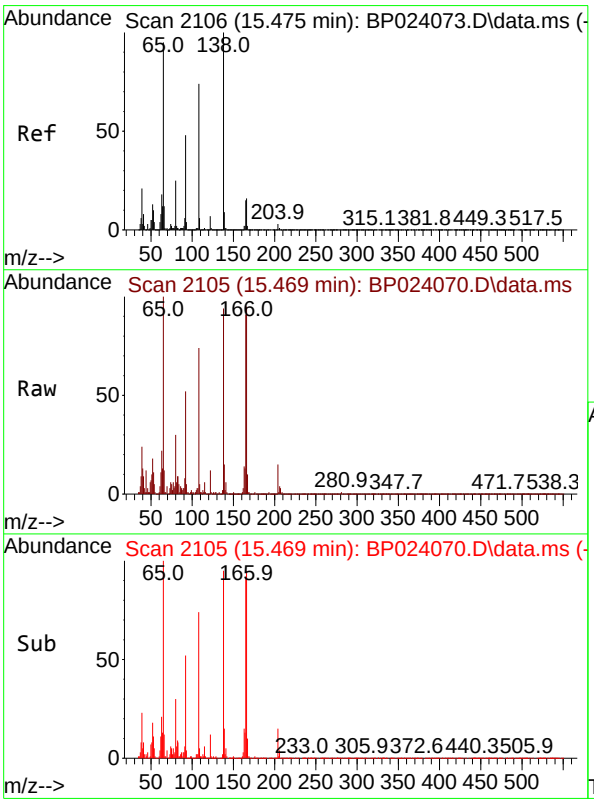
#61
4-Chlorophenyl-phenylether
Concen: 4.629 ng
RT: 15.445 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:204 Resp: 155540

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.6	39.8
141	56.1	47.8	71.6

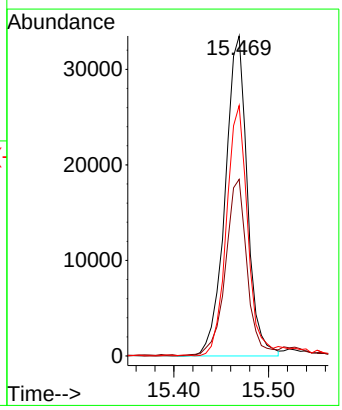


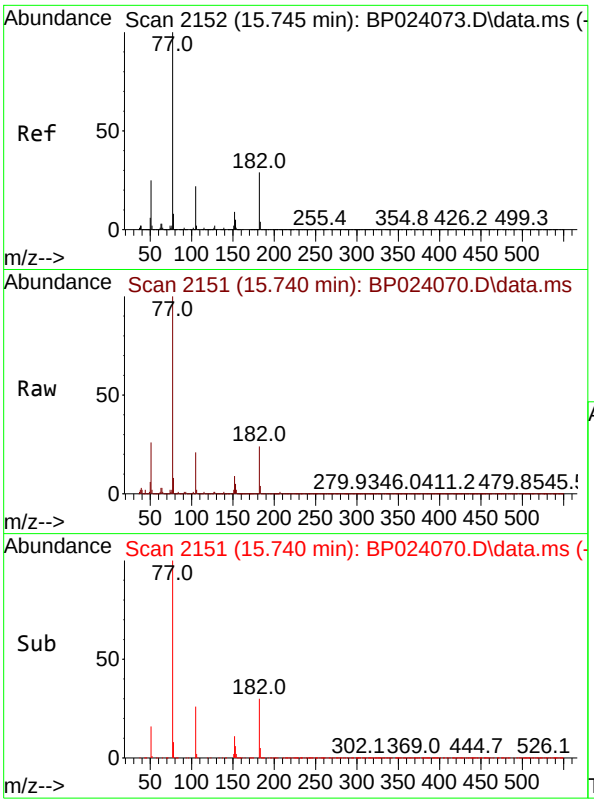


#62
4-Nitroaniline
Concen: 6.182 ng
RT: 15.469 min Scan# 2105
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:138 Resp: 54450

Ion	Ratio	Lower	Upper
138	100		
92	55.2	28.3	68.3
108	78.3	54.0	94.0



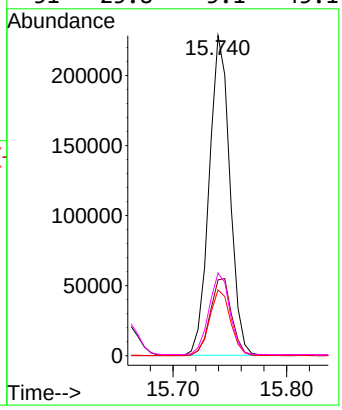


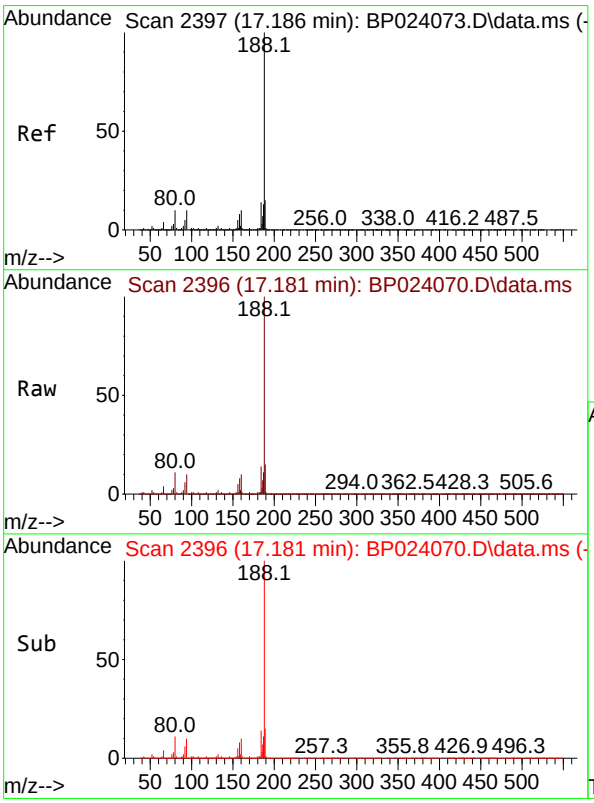
#63
Azobenzene
Concen: 4.554 ng
RT: 15.740 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 288499

Ion	Ratio	Lower	Upper
77	100		
182	23.7	8.5	48.5
105	20.5	1.8	41.8
51	25.8	5.1	45.1

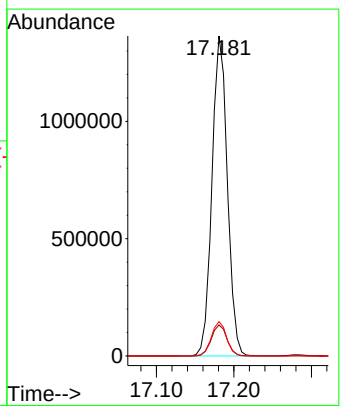


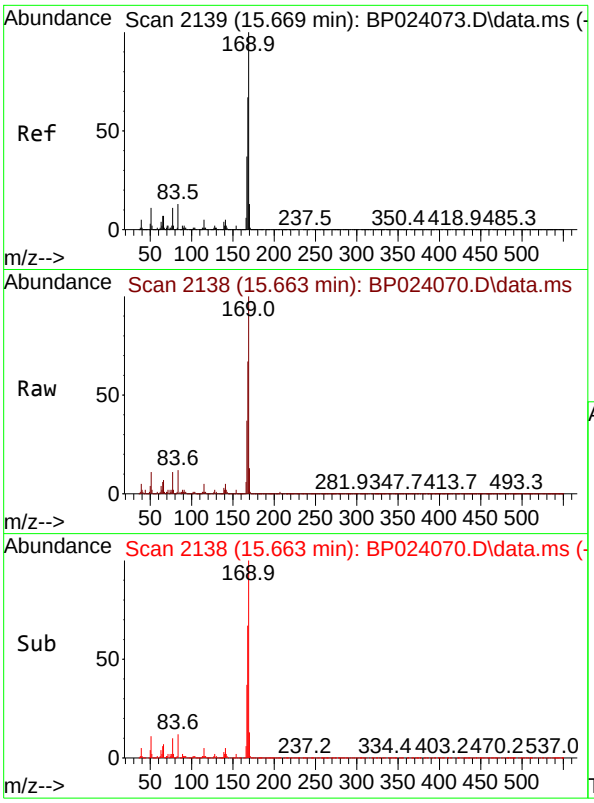


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.181 min Scan# 2396
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:188 Resp: 1879447

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.6	11.4
80	10.8	8.2	12.2



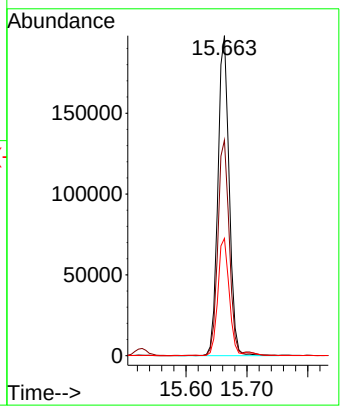


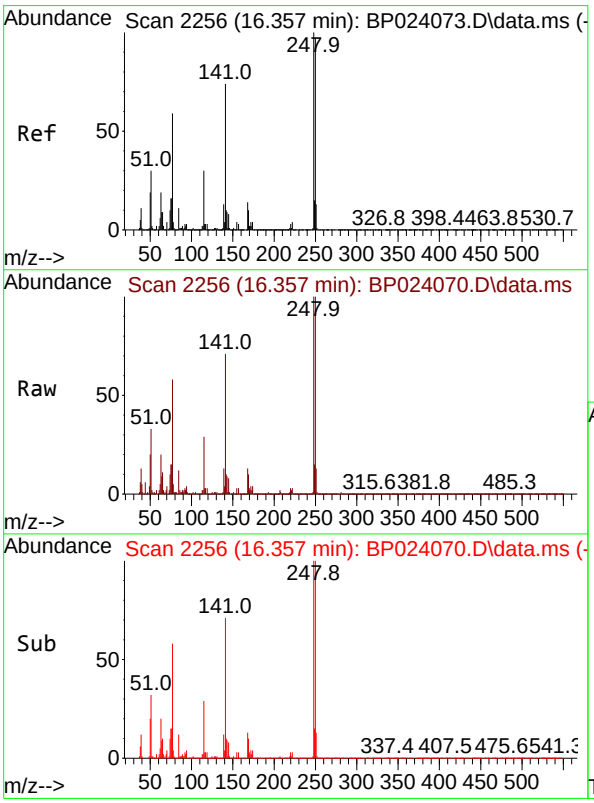
#66
n-Nitrosodiphenylamine
Concen: 4.310 ng
RT: 15.663 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:169 Resp: 252587

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.6	80.4
167	36.6	29.5	44.3

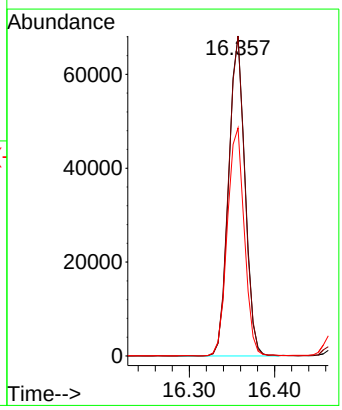


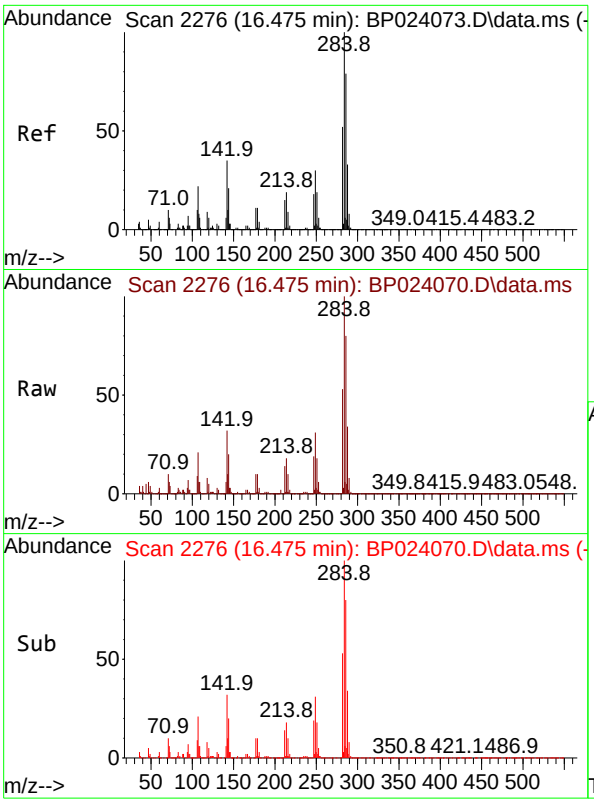


#67
4-Bromophenyl-phenylether
Concen: 4.304 ng
RT: 16.357 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:248 Resp: 90836

Ion	Ratio	Lower	Upper
248	100		
250	100.0	77.9	116.9
141	71.2	58.8	88.2



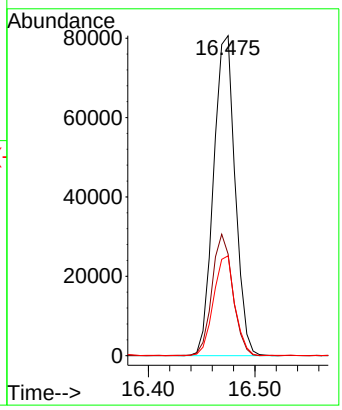


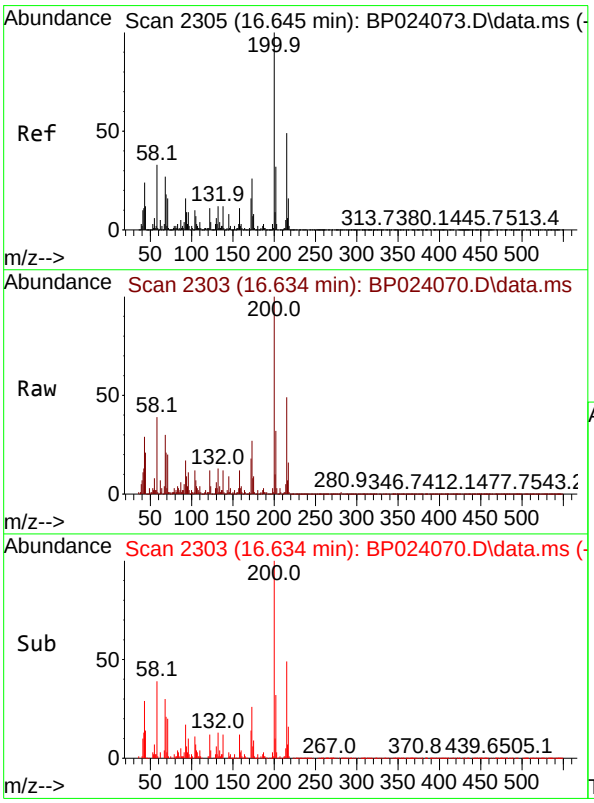
#68
Hexachlorobenzene
Concen: 4.550 ng
RT: 16.475 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:284 Resp: 112989

Ion	Ratio	Lower	Upper
284	100		
142	31.8	27.7	41.5
249	31.2	23.8	35.6

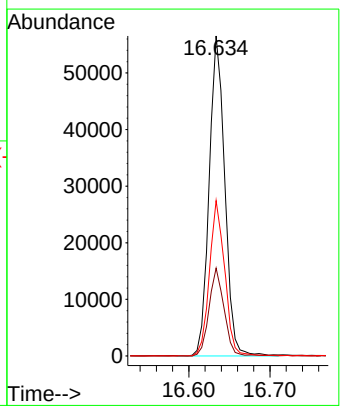


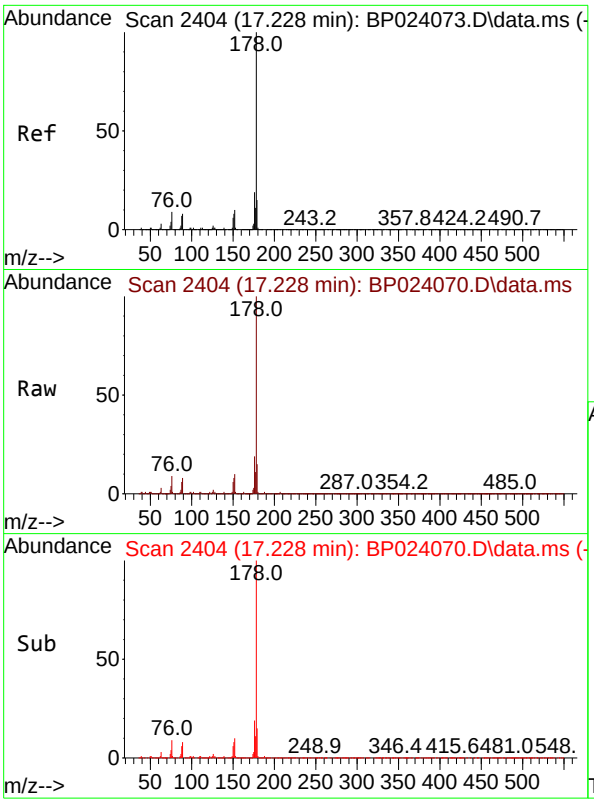


#69
Atrazine
Concen: 5.022 ng
RT: 16.634 min Scan# 2303
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:200 Resp: 75530

Ion	Ratio	Lower	Upper
200	100		
173	27.4	5.7	45.7
215	48.6	28.7	68.7



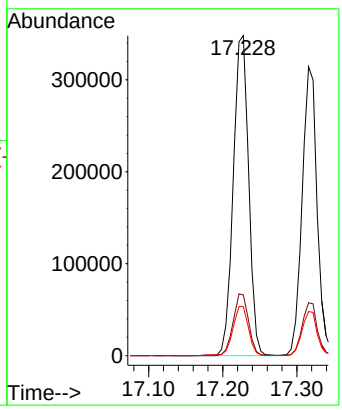


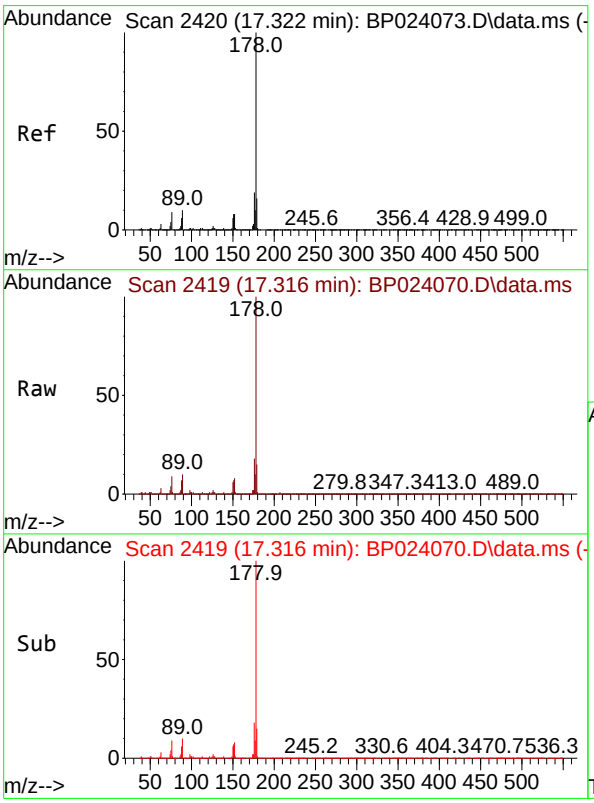
#71
Phenanthrene
Concen: 4.734 ng
RT: 17.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 501614

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.3	12.4	18.6

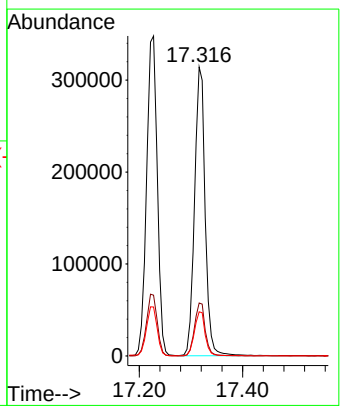


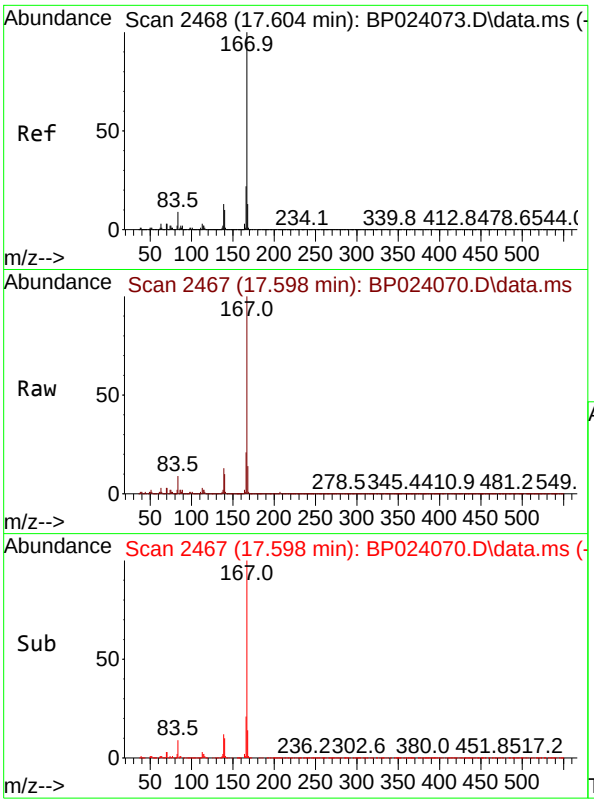


#72
Anthracene
Concen: 4.398 ng
RT: 17.316 min Scan# 2419
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:178 Resp: 446598

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	15.3	12.6	19.0



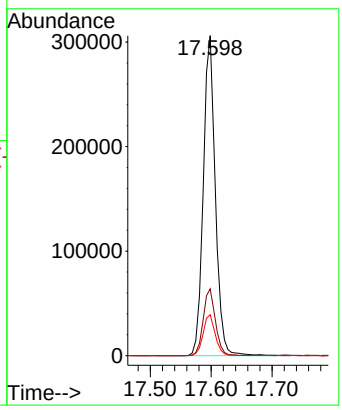


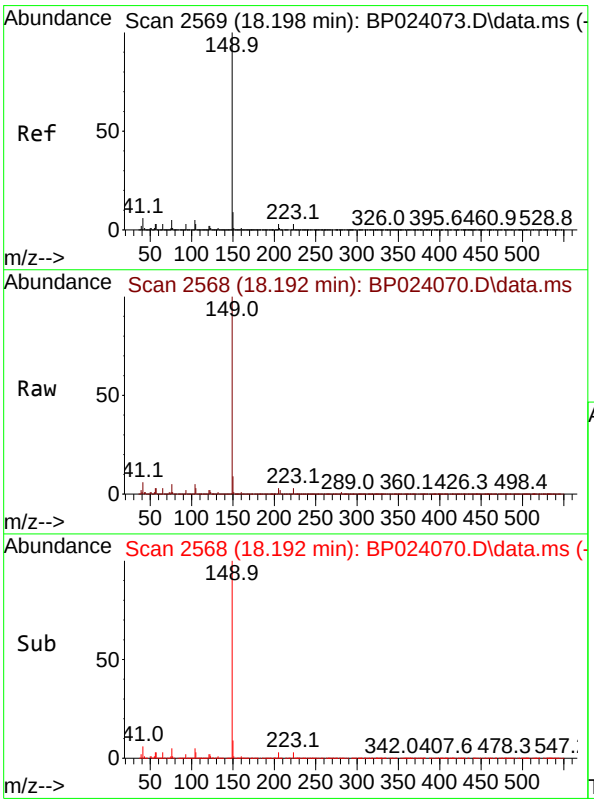
#73
Carbazole
Concen: 4.355 ng
RT: 17.598 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 421376

Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.3	25.9
139	12.8	10.3	15.5

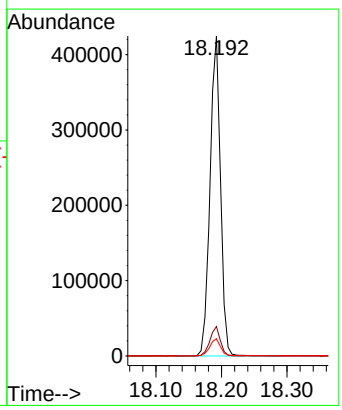


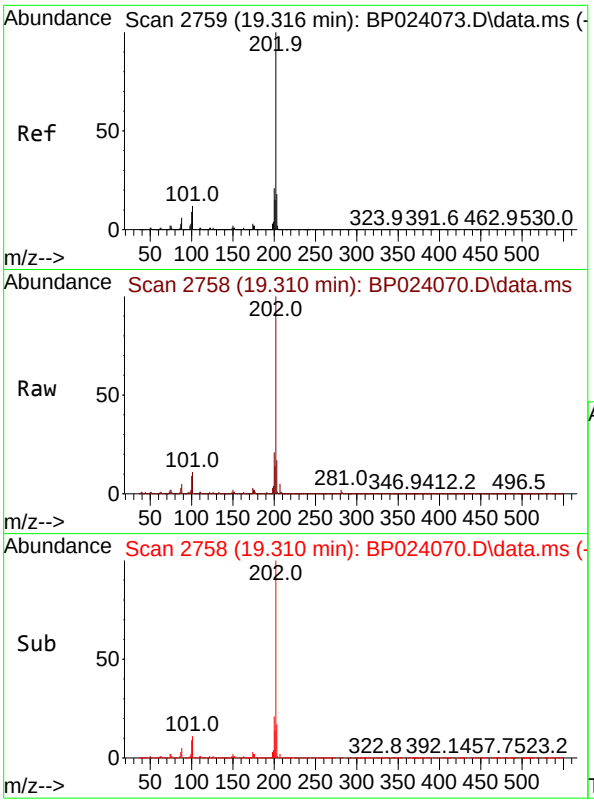


#74
Di-n-butylphthalate
Concen: 4.177 ng
RT: 18.192 min Scan# 2568
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:149 Resp: 471576

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.4	4.2	6.2



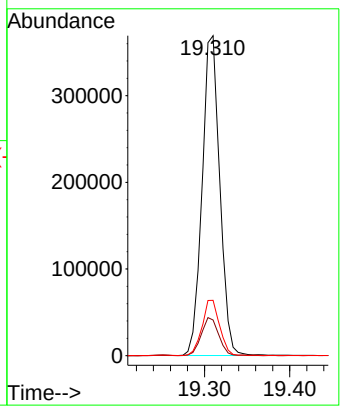


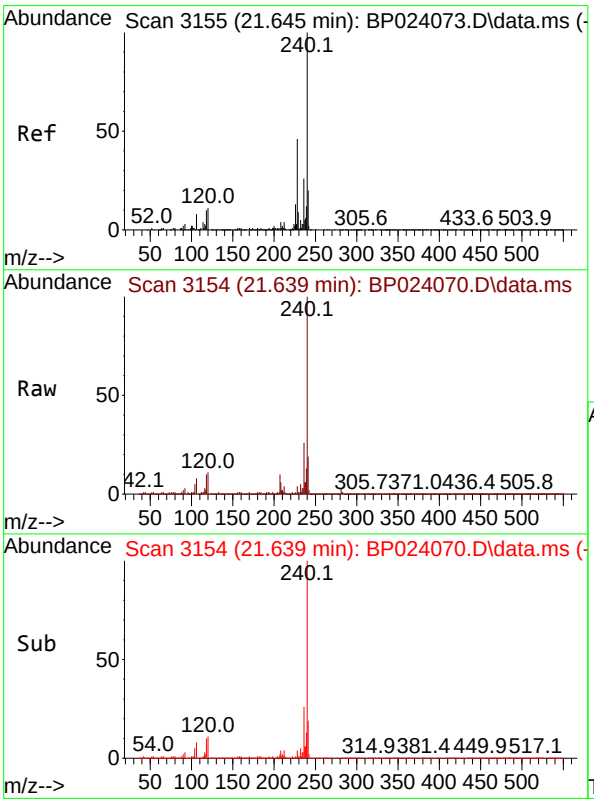
#75
Fluoranthene
Concen: 4.435 ng
RT: 19.310 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 531581

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.9
203	17.3	0.0	37.7

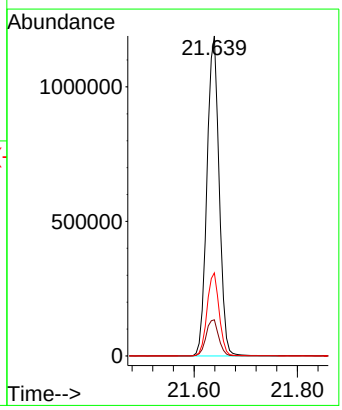


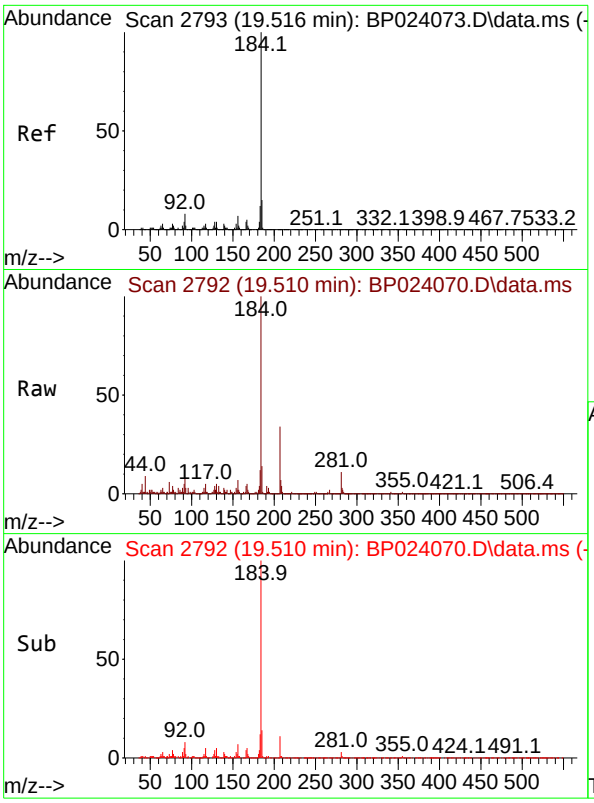


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:240 Resp: 1942491

Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.9	13.3
236	26.0	20.7	31.1



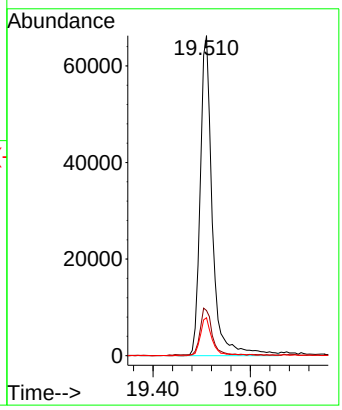


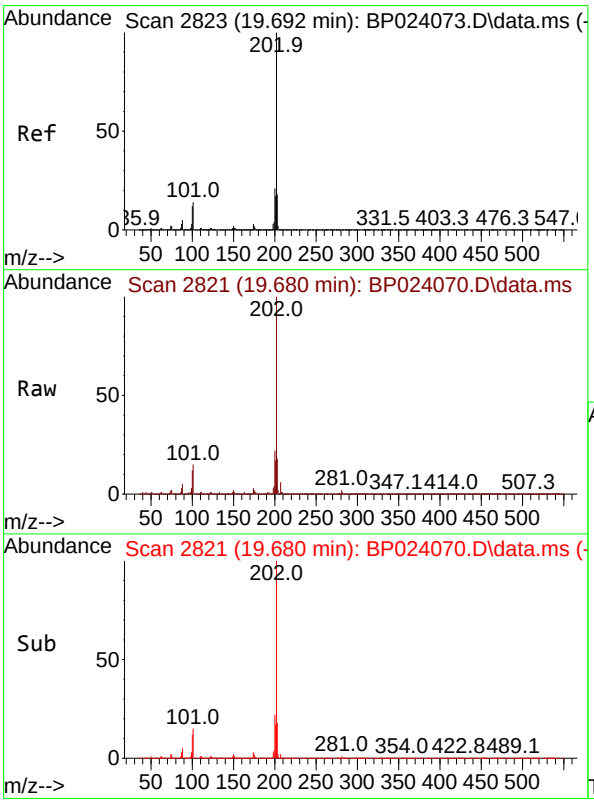
#77
Benzidine
Concen: 4.843 ng
RT: 19.510 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 114626

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.8	17.8
183	11.9	9.3	13.9

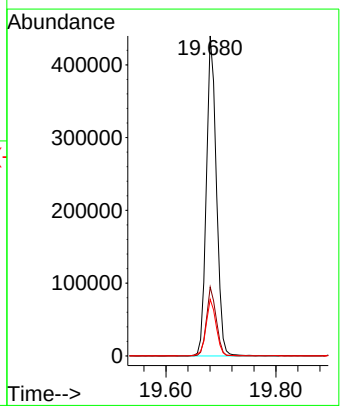


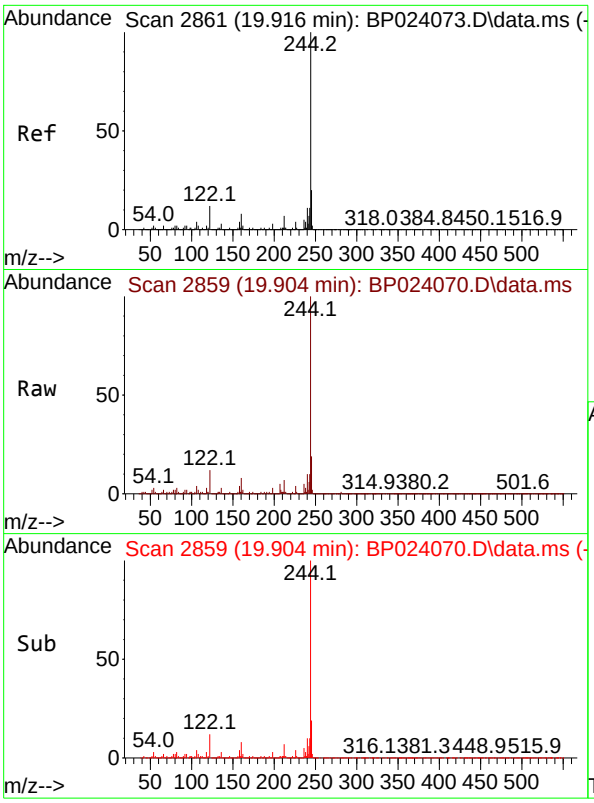


#78
Pyrene
Concen: 4.498 ng
RT: 19.680 min Scan# 2821
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:202 Resp: 554988

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8
203	17.7	14.4	21.6



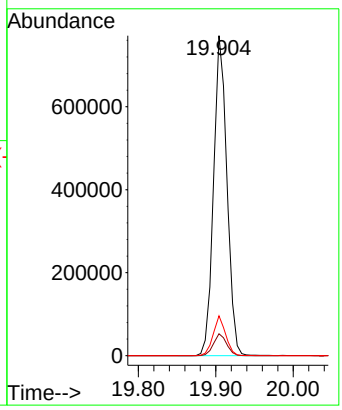


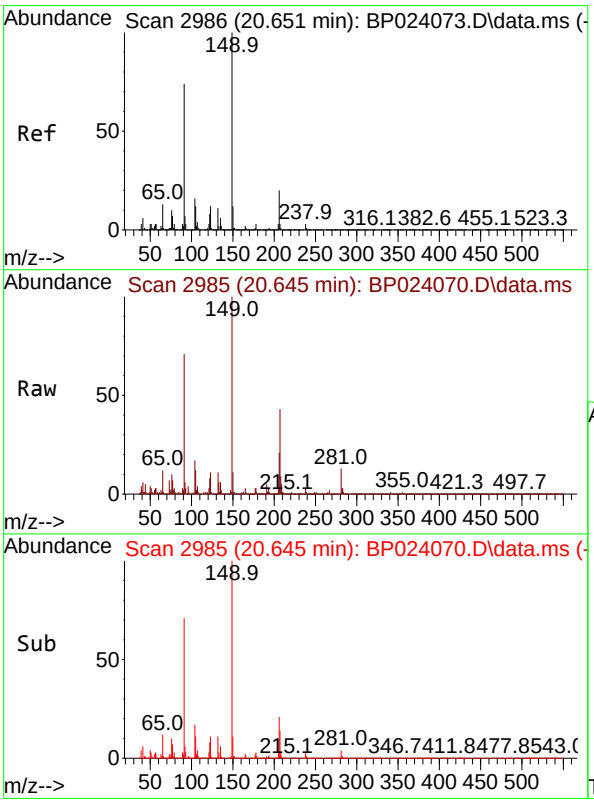
#79
Terphenyl-d14
Concen: 9.425 ng
RT: 19.904 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 925211

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.9	8.9
122	12.4	9.4	14.2

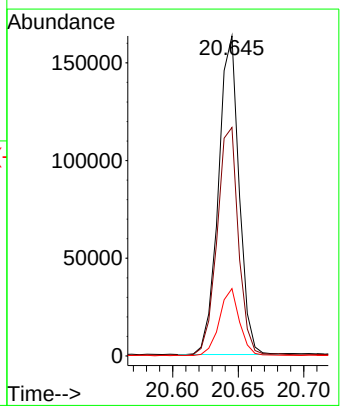


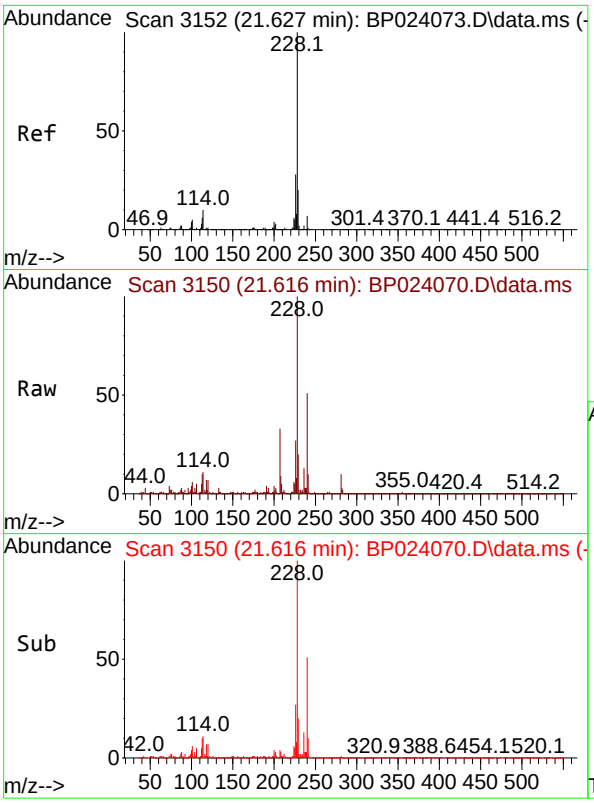


#80
Butylbenzylphthalate
Concen: 3.778 ng
RT: 20.645 min Scan# 2985
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:149 Resp: 178630

Ion	Ratio	Lower	Upper
149	100		
91	71.4	59.4	89.0
206	21.1	16.2	24.2



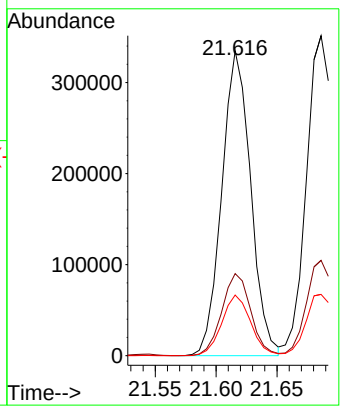


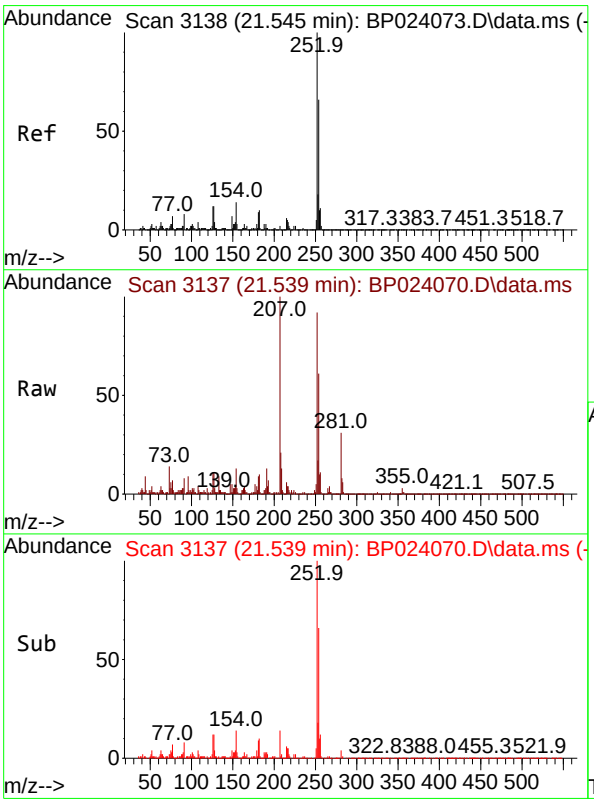
#81
Benzo(a)anthracene
Concen: 4.537 ng
RT: 21.616 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 552572

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.2	33.4
229	19.9	15.8	23.8

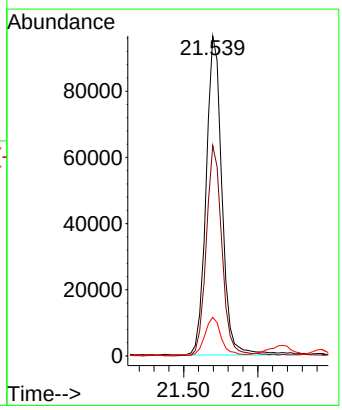


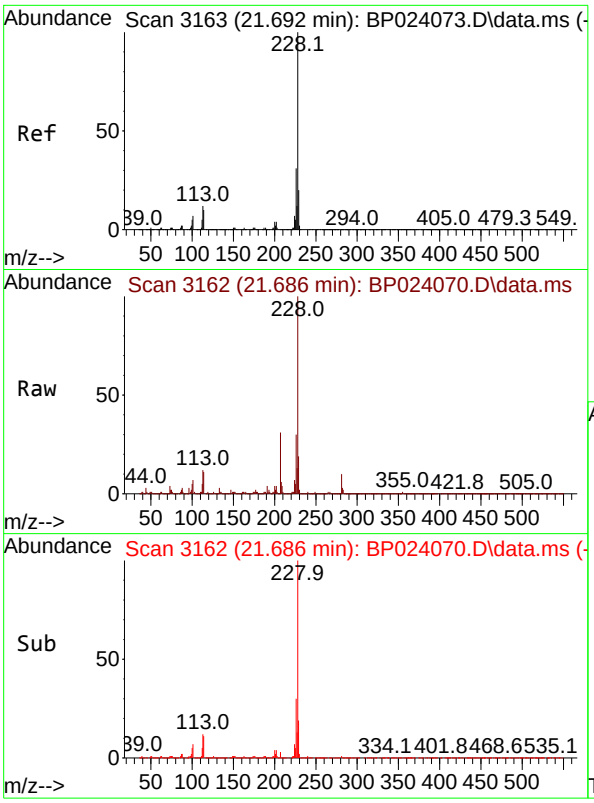


#82
3,3'-Dichlorobenzidine
Concen: 3.755 ng
RT: 21.539 min Scan# 3137
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:252 Resp: 142903

Ion	Ratio	Lower	Upper
252	100		
254	65.8	52.4	78.6
126	12.1	9.6	14.4



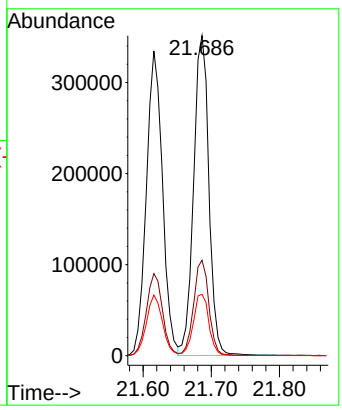


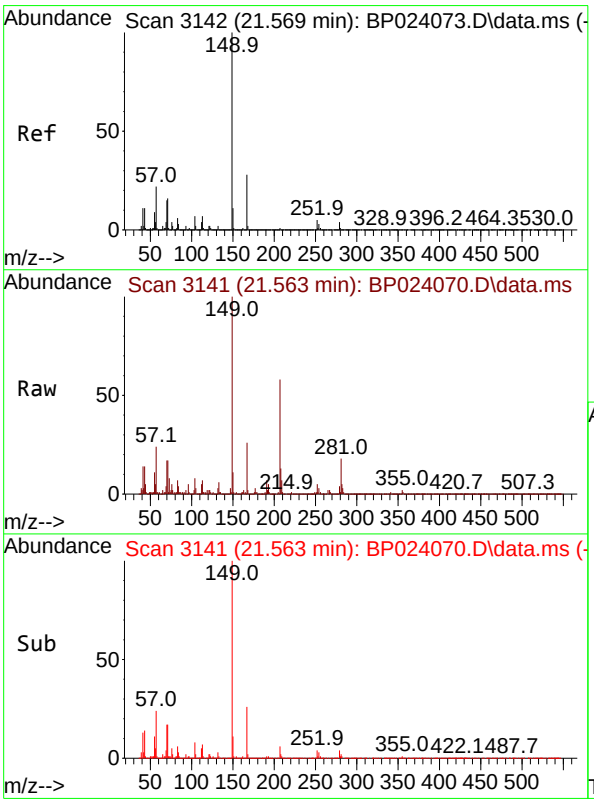
#83
Chrysene
Concen: 4.650 ng
RT: 21.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 546204

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.5	36.7
229	19.2	16.1	24.1

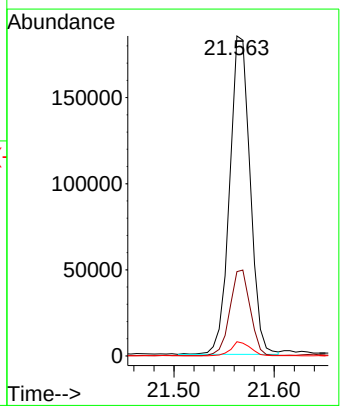


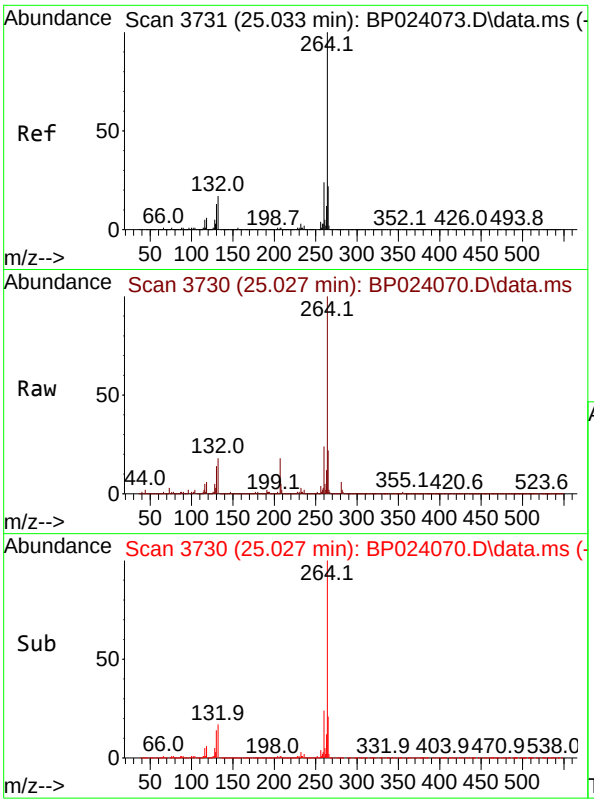


#84
Bis(2-ethylhexyl)phthalate
Concen: 3.662 ng
RT: 21.563 min Scan# 3141
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:149 Resp: 262557

Ion	Ratio	Lower	Upper
149	100		
167	26.4	22.2	33.2
279	4.4	3.6	5.4



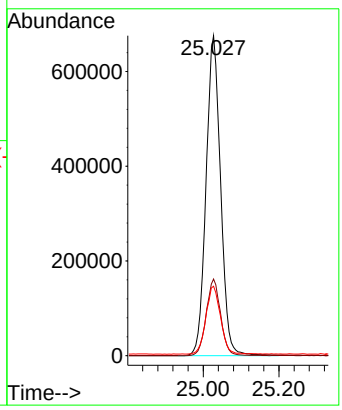


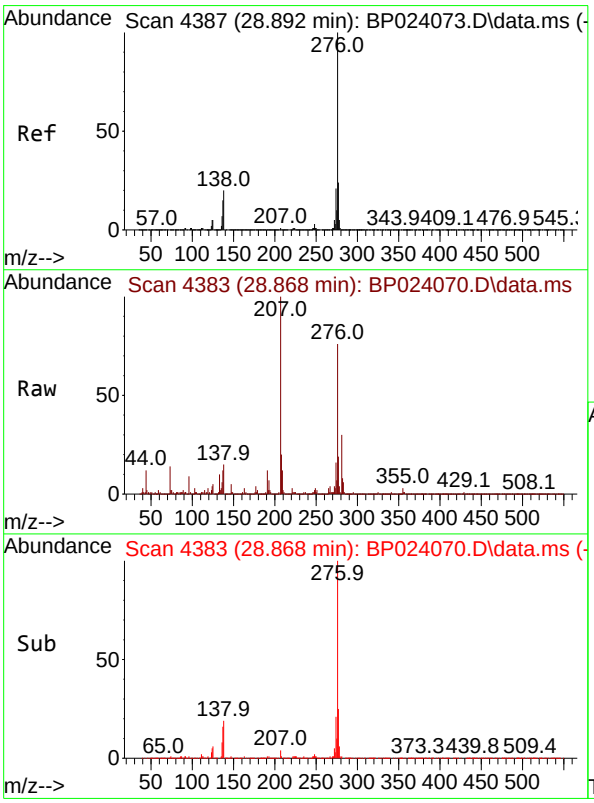
#86
Perylene-d12
Concen: 20.000 ng
RT: 25.027 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:264 Resp: 1795199

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.6
265	21.7	17.8	26.8

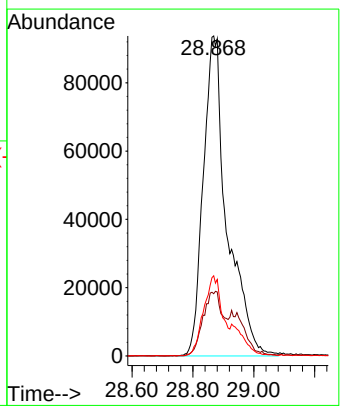


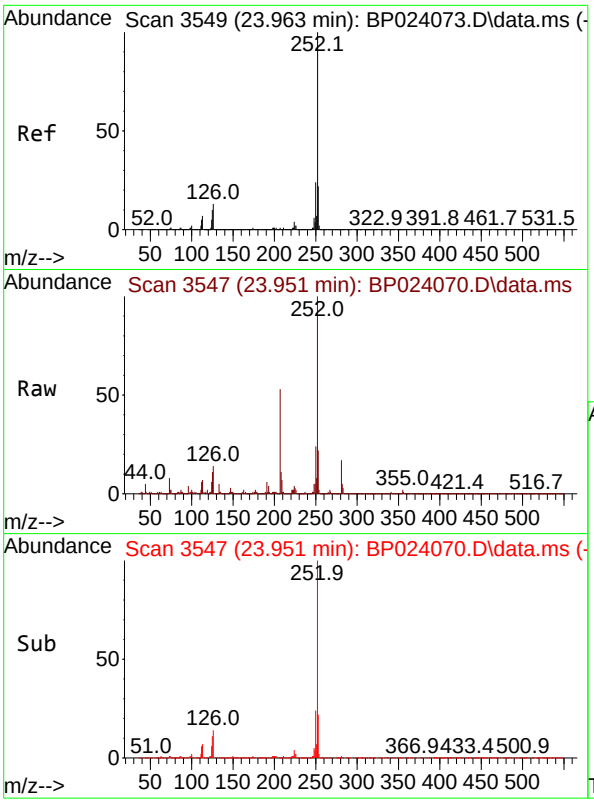


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.983 ng
RT: 28.868 min Scan# 4383
Delta R.T. -0.024 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:276 Resp: 508904

Ion	Ratio	Lower	Upper
276	100		
138	17.1	14.2	21.4
277	19.7	16.2	24.4



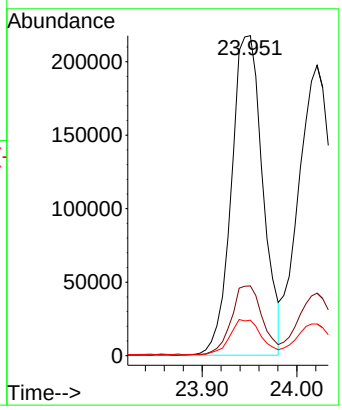


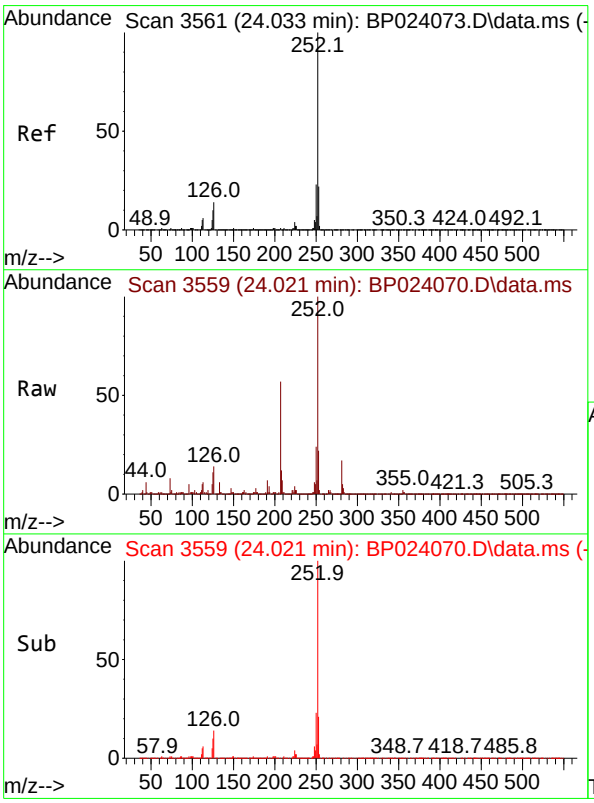
#88
Benzo(b)fluoranthene
Concen: 4.393 ng
RT: 23.951 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 500824

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	11.1	8.4	12.6

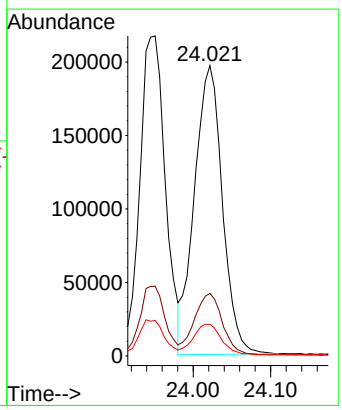


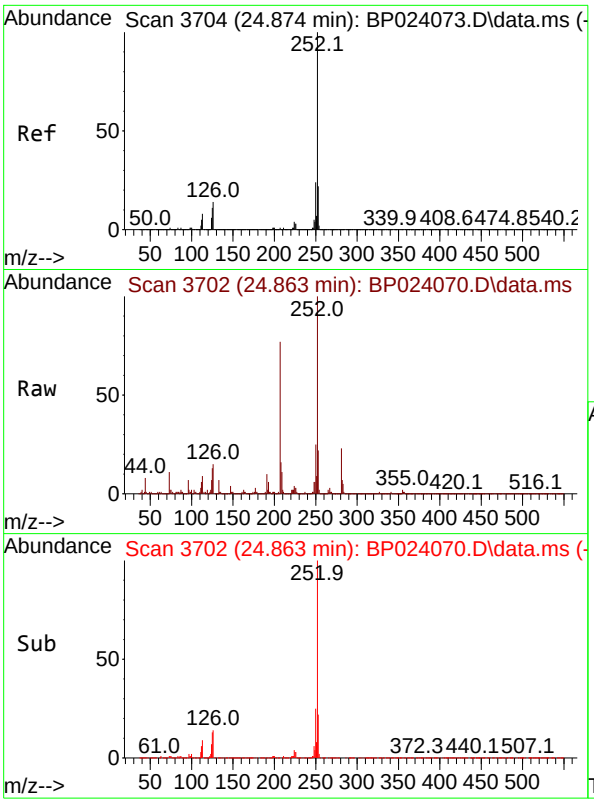


#89
Benzo(k)fluoranthene
Concen: 4.445 ng
RT: 24.021 min Scan# 3559
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:252 Resp: 493266

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	10.9	8.1	12.1



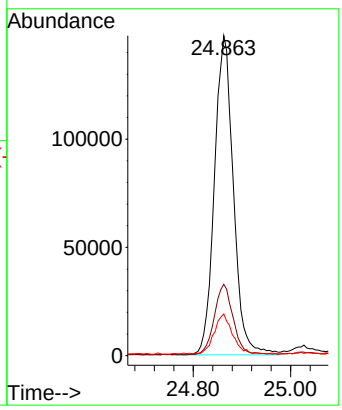


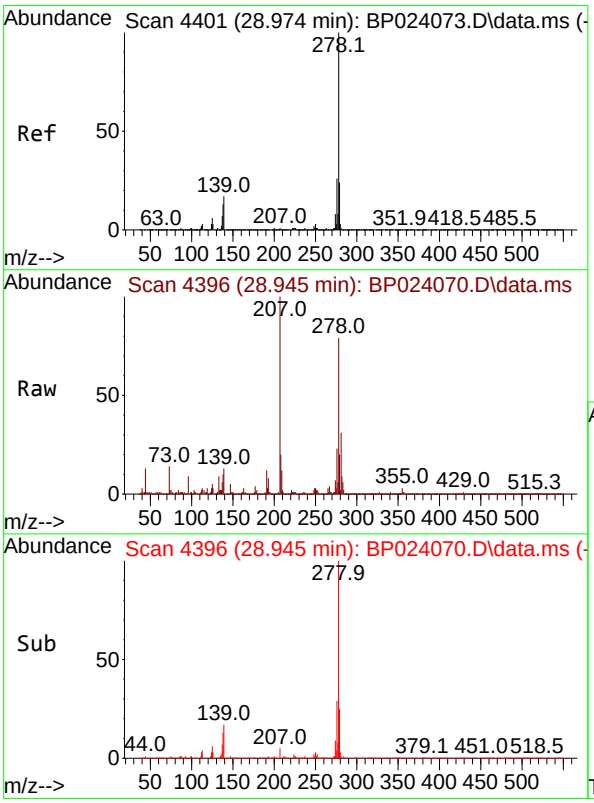
#90
Benzo(a)pyrene
Concen: 4.123 ng
RT: 24.863 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 398861

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	13.1	8.8	13.2

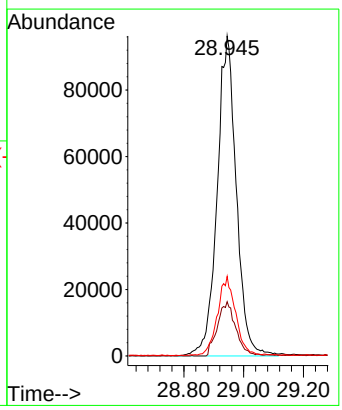


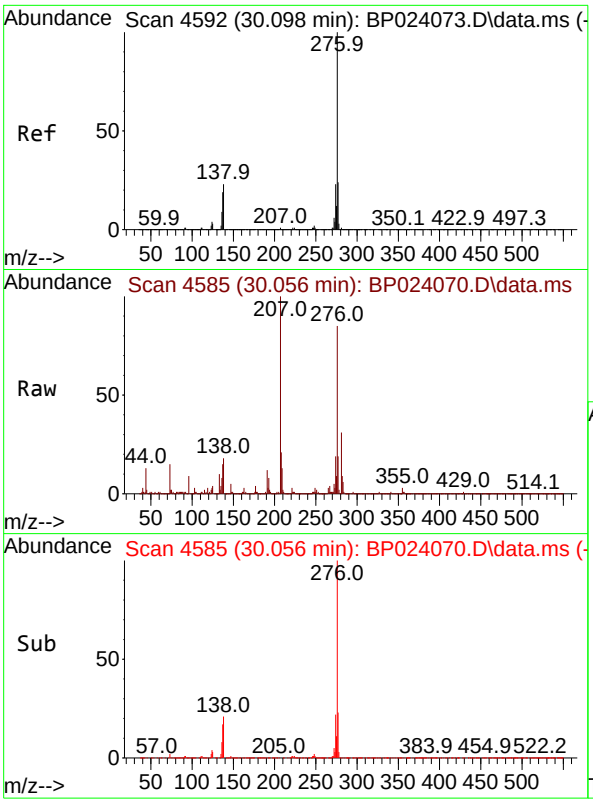


#91
Dibenzo(a,h)anthracene
Concen: 3.998 ng
RT: 28.945 min Scan# 4396
Delta R.T. -0.029 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Tgt Ion:278 Resp: 429271

Ion	Ratio	Lower	Upper
278	100		
139	16.9	13.4	20.0
279	24.8	19.0	28.4



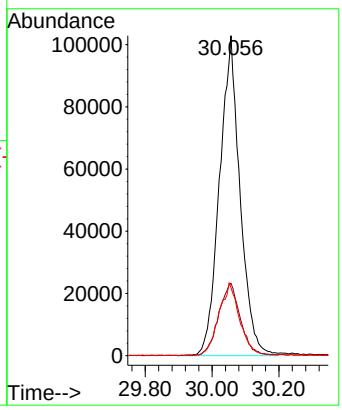


#92
Benzo(g,h,i)perylene
Concen: 4.018 ng
RT: 30.056 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP024070.D
Acq: 17 Feb 2025 12:09

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 437863

Ion	Ratio	Lower	Upper
276	100		
277	22.6	18.9	28.3
138	21.3	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024071.D
Acq On : 17 Feb 2025 12:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Quant Time: Feb 18 02:01:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.757	152	419006	20.000	ng		0.00
21) Naphthalene-d8	10.534	136	1488968	20.000	ng		0.00
39) Acenaphthene-d10	14.392	164	739718	20.000	ng		0.00
64) Phenanthrene-d10	17.180	188	1201600	20.000	ng		0.00
76) Chrysene-d12	21.639	240	1210021	20.000	ng		0.00
86) Perylene-d12	25.015	264	1337995	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	501051	18.659	ng		0.00
7) Phenol-d6	6.940	99	629289	18.233	ng		0.00
23) Nitrobenzene-d5	8.904	82	503413	18.862	ng		0.00
42) 2,4,6-Tribromophenol	15.898	330	133745	14.761	ng		0.00
45) 2-Fluorobiphenyl	13.004	172	1084159	20.490	ng		0.00
79) Terphenyl-d14	19.910	244	1216332	19.891	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.316	88	106415	10.102	ng		100
3) Pyridine	3.716	79	253997	9.264	ng		98
4) n-Nitrosodimethylamine	3.622	42	94118	9.688	ng	#	96
6) Aniline	7.093	93	293090	9.273	ng		99
8) 2-Chlorophenol	7.334	128	268714	9.454	ng		98
9) Benzaldehyde	6.910	77	180721	11.469	ng		98
10) Phenol	6.969	94	322305	9.287	ng		100
11) bis(2-Chloroethyl)ether	7.187	93	257290	9.412	ng		99
12) 1,3-Dichlorobenzene	7.652	146	305134	9.772	ng		99
13) 1,4-Dichlorobenzene	7.793	146	302727	9.587	ng		99
14) 1,2-Dichlorobenzene	8.110	146	286767	9.463	ng		99
15) Benzyl Alcohol	7.999	79	174792	8.274	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.287	45	242986	9.157	ng		99
17) 2-Methylphenol	8.204	107	181763	8.594	ng		98
18) Hexachloroethane	8.834	117	107861	9.485	ng		99
19) n-Nitroso-di-n-propyla...	8.551	70	154489	8.325	ng		97
20) 3+4-Methylphenols	8.528	107	239285	8.317	ng		98
22) Acetophenone	8.569	105	363677	9.505	ng		98
24) Nitrobenzene	8.946	77	249498	9.499	ng		98
25) Isophorone	9.469	82	349724	8.013	ng		98
26) 2-Nitrophenol	9.651	139	96684	7.990	ng		95
27) 2,4-Dimethylphenol	9.716	122	137677	8.667	ng		98
28) bis(2-Chloroethoxy)met...	9.946	93	282143	8.924	ng		100
29) 2,4-Dichlorophenol	10.193	162	186501	8.603	ng		99
30) 1,2,4-Trichlorobenzene	10.398	180	241313	9.716	ng		99
31) Naphthalene	10.587	128	771847	9.641	ng		100
32) Benzoic acid	9.804	122	81974	11.639	ng		98
33) 4-Chloroaniline	10.698	127	240798	8.537	ng		99
34) Hexachlorobutadiene	10.875	225	140457	9.763	ng		99
35) Caprolactam	11.469	113	38440m	10.227	ng		
36) 4-Chloro-3-methylphenol	11.828	107	170588	7.655	ng		99
37) 2-Methylnaphthalene	12.198	142	466280	8.763	ng		98
38) 1-Methylnaphthalene	12.416	142	454358	8.777	ng		99
40) 1,2,4,5-Tetrachloroben...	12.569	216	232512	10.230	ng		99
41) Hexachlorocyclopentadiene	12.551	237	83898	9.920	ng		96
43) 2,4,6-Trichlorophenol	12.816	196	121070	8.735	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024071.D
Acq On : 17 Feb 2025 12:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 18 02:01:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.892	196	132100	8.714	ng	99
46) 1,1'-Biphenyl	13.216	154	580672	10.102	ng	99
47) 2-Chloronaphthalene	13.257	162	440386	10.135	ng	100
48) 2-Nitroaniline	13.463	65	80349	7.828	ng	98
49) Acenaphthylene	14.110	152	592145	9.249	ng	100
50) Dimethylphthalate	13.845	163	455221	8.724	ng	100
51) 2,6-Dinitrotoluene	13.957	165	85597	8.053	ng	93
52) Acenaphthene	14.457	154	389324	9.444	ng	100
53) 3-Nitroaniline	14.292	138	85907	7.574	ng	97
54) 2,4-Dinitrophenol	14.504	184	30515	11.711	ng	96
55) Dibenzofuran	14.798	168	628066	9.378	ng	99
56) 4-Nitrophenol	14.622	139	62296	6.358	ng	95
57) 2,4-Dinitrotoluene	14.751	165	97711	7.077	ng	89
58) Fluorene	15.457	166	454216	8.684	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.028	232	105464	8.019	ng	99
60) Diethylphthalate	15.228	149	422507	8.157	ng	99
61) 4-Chlorophenyl-phenyle...	15.451	204	224746	8.730	ng	97
62) 4-Nitroaniline	15.475	138	79988	8.836	ng	92
63) Azobenzene	15.745	77	409700	8.441	ng	96
65) 4,6-Dinitro-2-methylph...	15.533	198	44713	11.077	ng	99
66) n-Nitrosodiphenylamine	15.669	169	354530	9.461	ng	99
67) 4-Bromophenyl-phenylether	16.363	248	122158	9.053	ng	97
68) Hexachlorobenzene	16.480	284	151020	9.512	ng	98
69) Atrazine	16.639	200	90927	9.456	ng	99
70) Pentachlorophenol	16.828	266	70531	6.840	ng	96
71) Phenanthrene	17.222	178	648096	9.567	ng	100
72) Anthracene	17.322	178	584512	9.004	ng	99
73) Carbazole	17.598	167	543745	8.791	ng	100
74) Di-n-butylphthalate	18.192	149	548733	7.603	ng	99
75) Fluoranthene	19.310	202	724846	9.460	ng	99
77) Benzidine	19.510	184	143963	9.764	ng	99
78) Pyrene	19.686	202	741768	9.651	ng	99
80) Butylbenzylphthalate	20.639	149	219635	7.457	ng	96
81) Benzo(a)anthracene	21.621	228	707853	9.329	ng	98
82) 3,3'-Dichlorobenzidine	21.539	252	196776	8.299	ng	99
83) Chrysene	21.686	228	694084	9.487	ng	98
84) Bis(2-ethylhexyl)phtha...	21.563	149	329534	7.378	ng	98
85) Di-n-octyl phthalate	22.863	149	467867	6.554	ng	98
87) Indeno(1,2,3-cd)pyrene	28.856	276	884100m	9.284	ng	
88) Benzo(b)fluoranthene	23.939	252	741531	8.727	ng	99
89) Benzo(k)fluoranthene	24.015	252	726920	8.790	ng	99
90) Benzo(a)pyrene	24.857	252	616631	8.552	ng	98
91) Dibenzo(a,h)anthracene	28.933	278	740012	9.246	ng	99
92) Benzo(g,h,i)perylene	30.050	276	776170	9.557	ng	99

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

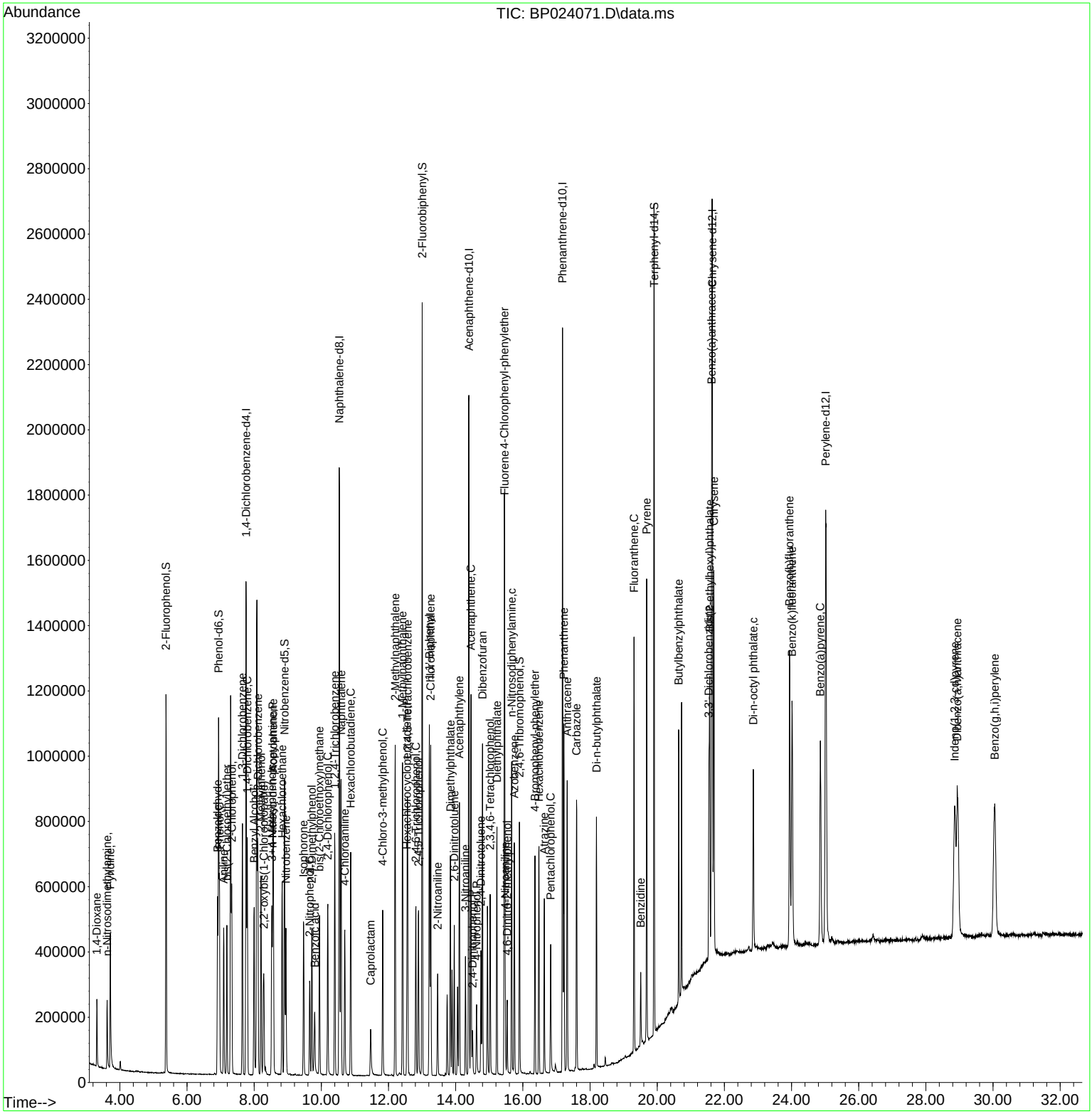
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024071.D
Acq On : 17 Feb 2025 12:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

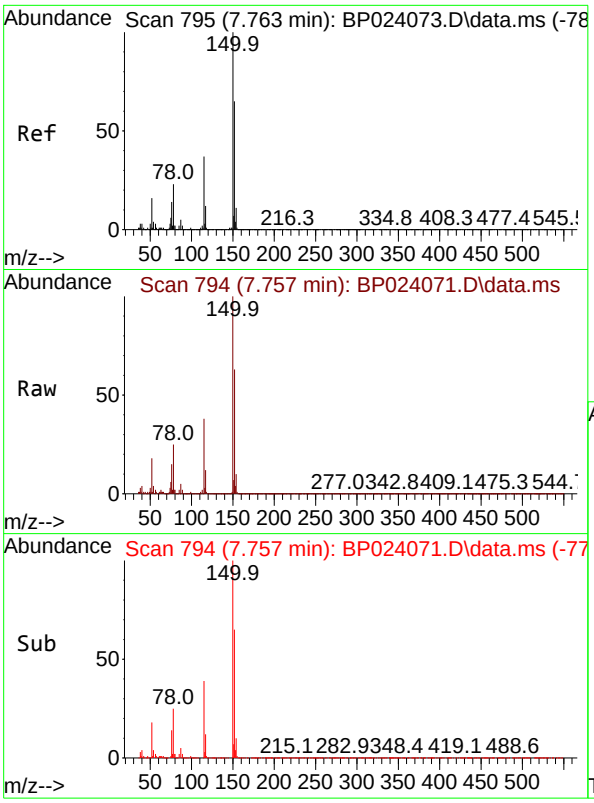
Quant Time: Feb 18 02:01:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

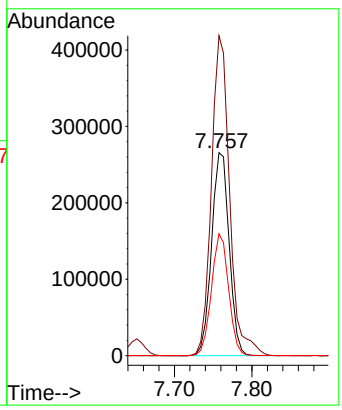




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:152 Resp: 41900

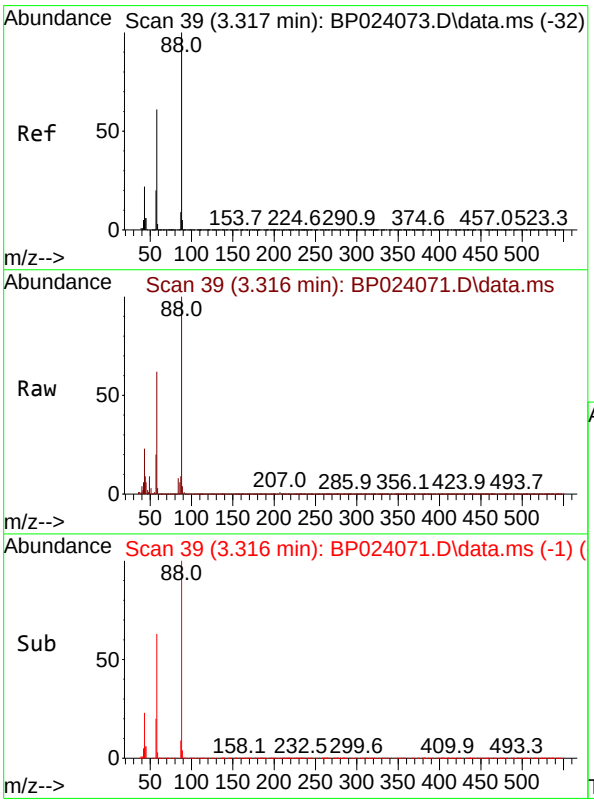
Ion	Ratio	Lower	Upper
152	100		
150	157.6	122.4	183.6
115	60.0	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

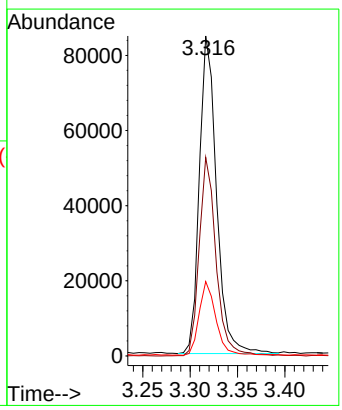
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

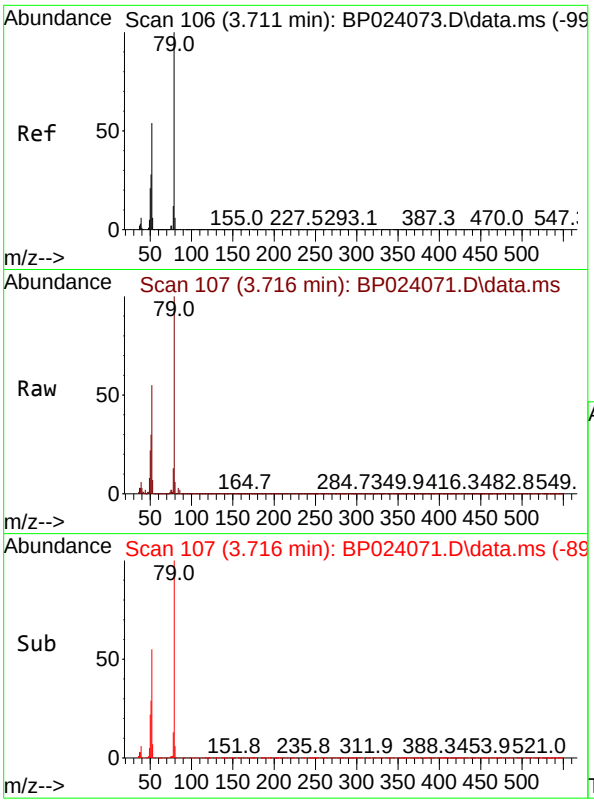


#2
1,4-Dioxane
Concen: 10.102 ng
RT: 3.316 min Scan# 39
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 88 Resp: 106415

Ion	Ratio	Lower	Upper
88	100		
58	61.7	49.1	73.7
43	22.5	18.0	27.0

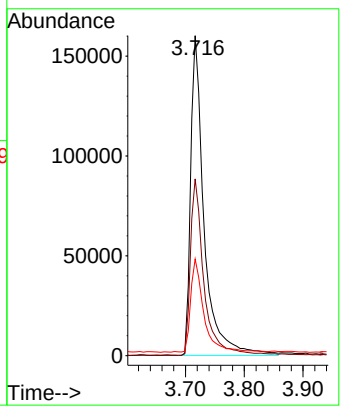




#3
Pyridine
Concen: 9.264 ng
RT: 3.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 79 Resp: 25399

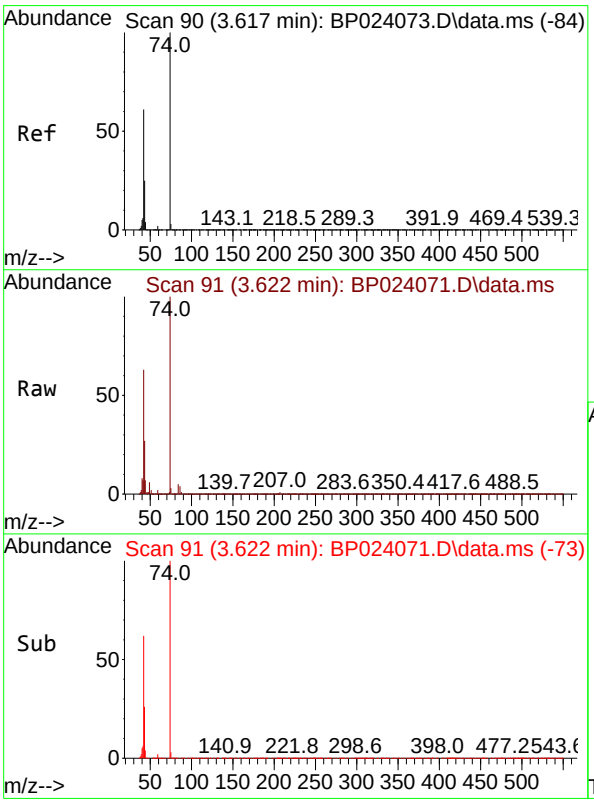
Ion	Ratio	Lower	Upper
79	100		
52	55.2	43.5	65.3
51	30.2	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

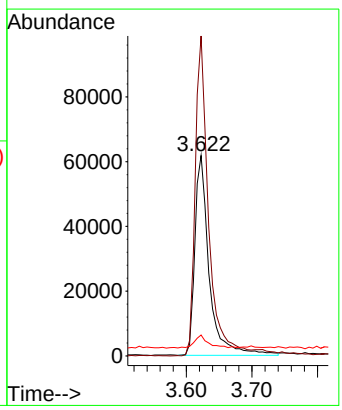
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

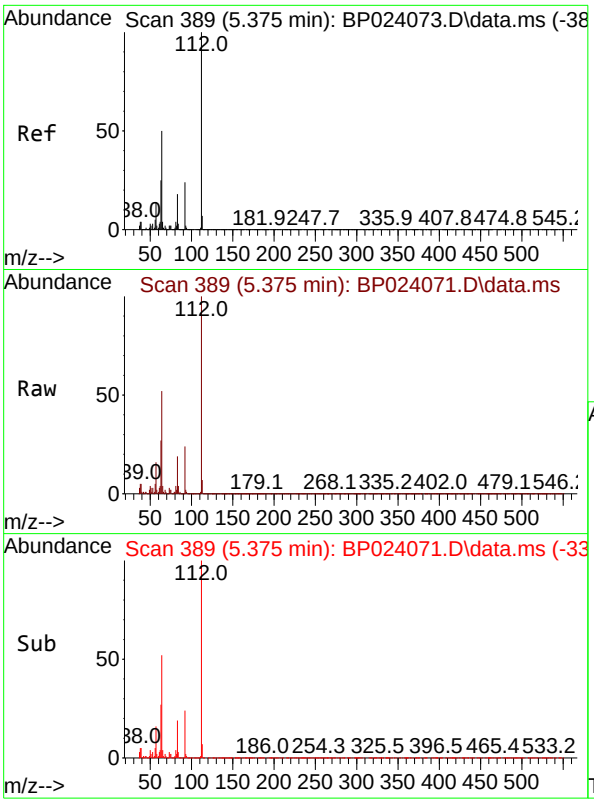


#4
n-Nitrosodimethylamine
Concen: 9.688 ng
RT: 3.622 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 42 Resp: 94118

Ion	Ratio	Lower	Upper
42	100		
74	159.7	132.0	198.0
44	10.5	5.3	7.9#

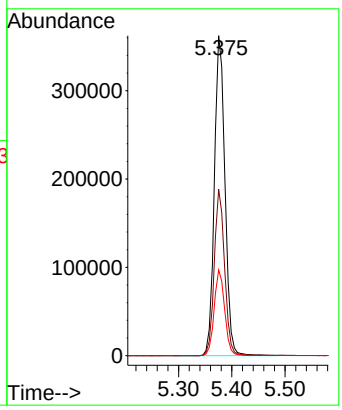




#5
2-Fluorophenol
Concen: 18.659 ng
RT: 5.375 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:112 Resp: 50105

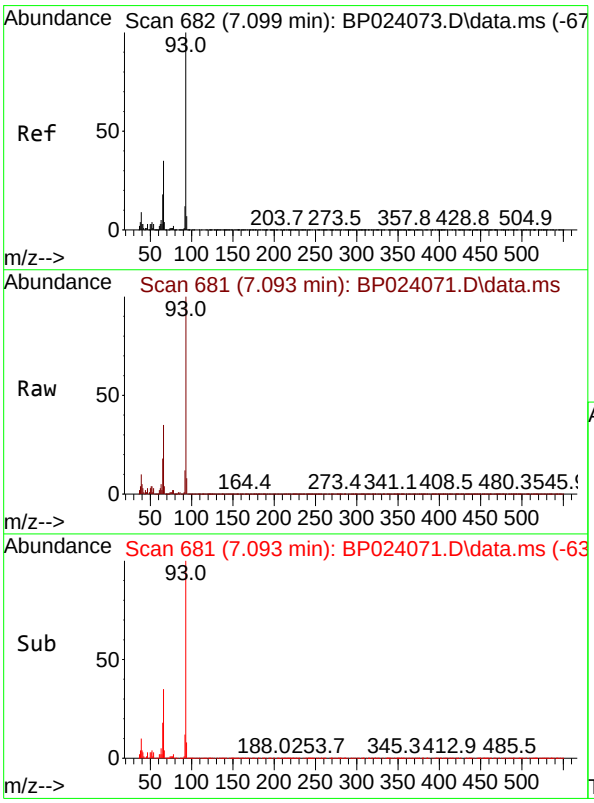
Ion	Ratio	Lower	Upper
112	100		
64	52.0	39.6	59.4
63	26.8	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

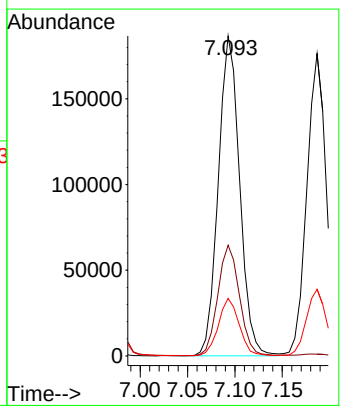
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

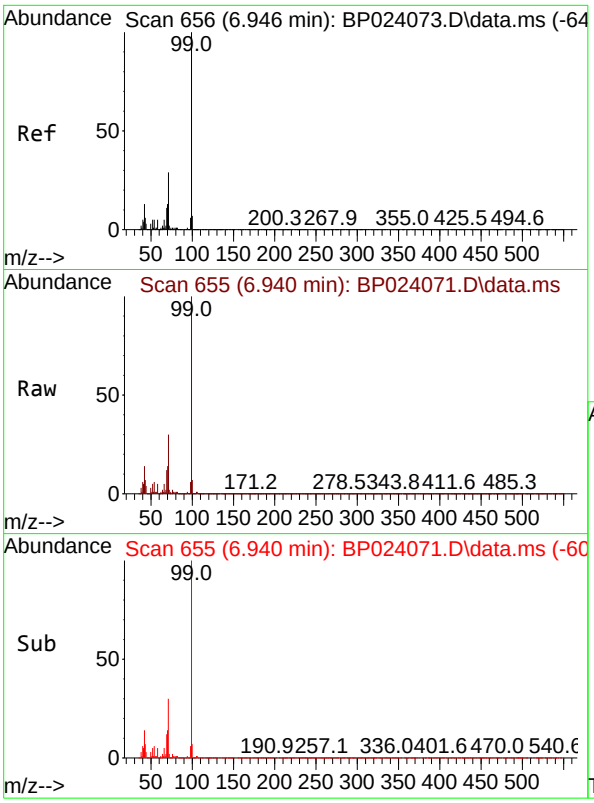


#6
Aniline
Concen: 9.273 ng
RT: 7.093 min Scan# 681
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 93 Resp: 293090

Ion	Ratio	Lower	Upper
93	100		
66	34.6	28.2	42.4
65	18.0	14.1	21.1

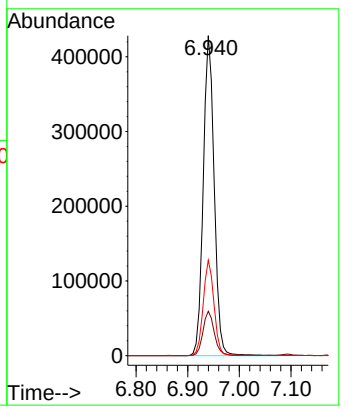




#7
Phenol-d6
Concen: 18.233 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 99 Resp: 62928

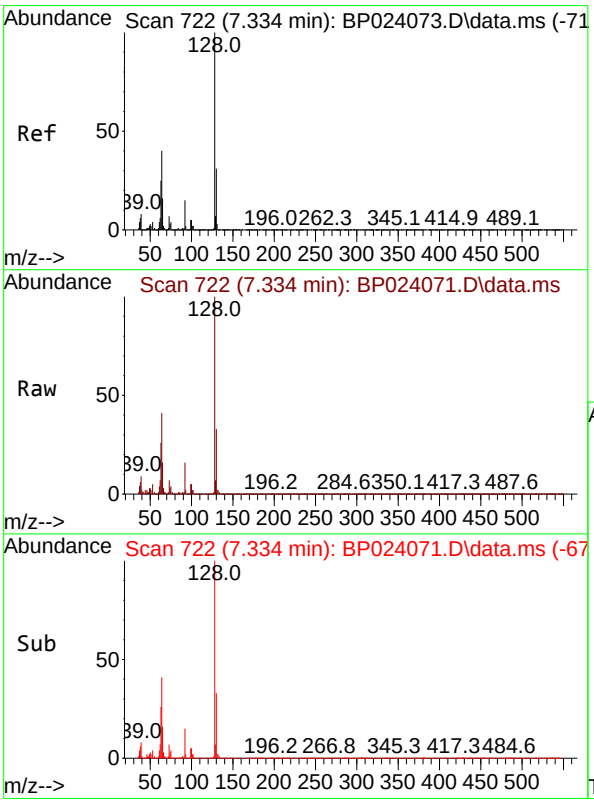
Ion	Ratio	Lower	Upper
99	100		
42	13.9	10.3	15.5
71	29.9	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

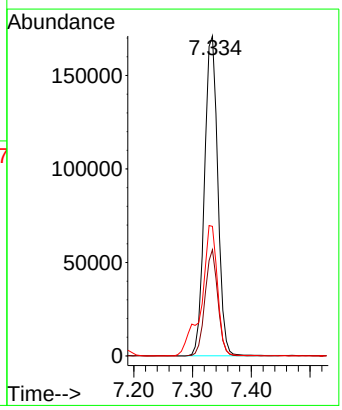
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

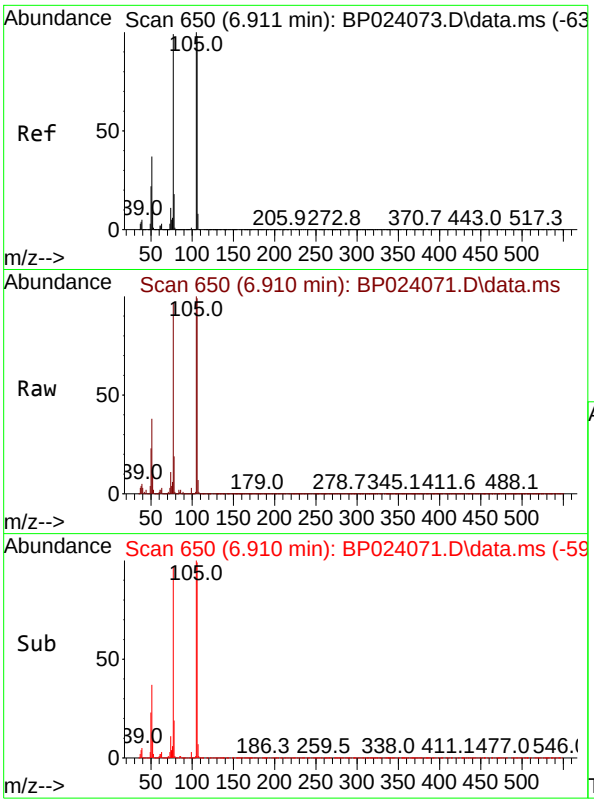


#8
2-Chlorophenol
Concen: 9.454 ng
RT: 7.334 min Scan# 722
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:128 Resp: 268714

Ion	Ratio	Lower	Upper
128	100		
130	33.2	11.5	51.5
64	40.5	19.8	59.8

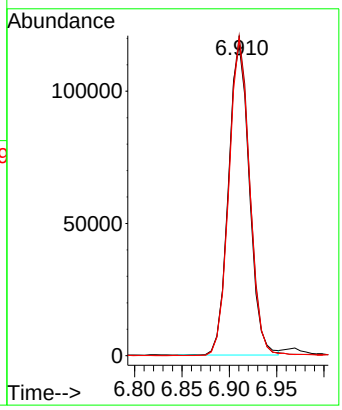




#9
Benzaldehyde
Concen: 11.469 ng
RT: 6.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 77 Resp: 18072

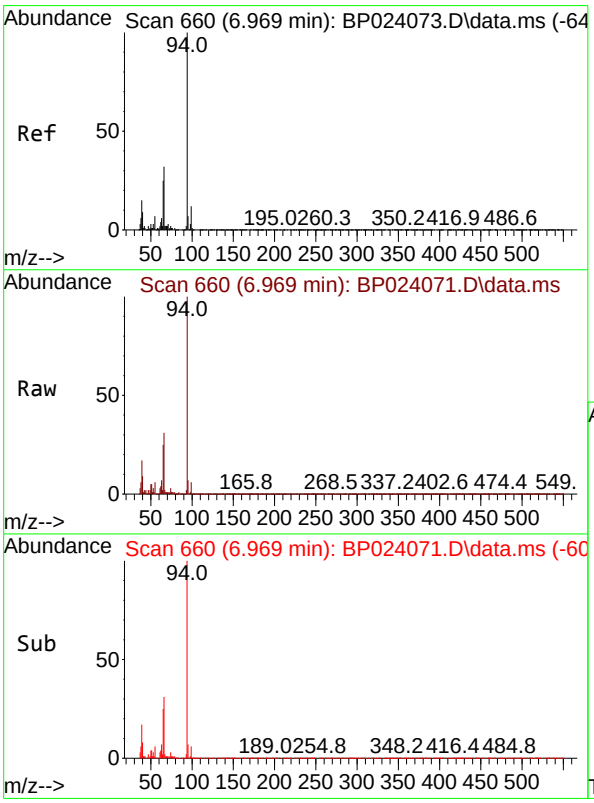
Ion	Ratio	Lower	Upper
77	100		
105	103.1	81.4	121.4
106	102.0	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

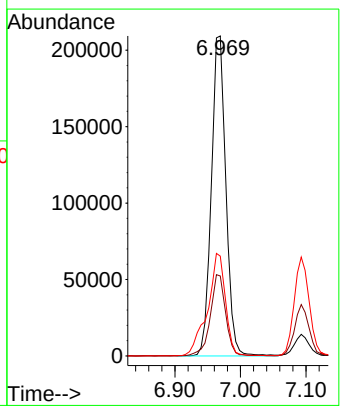
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

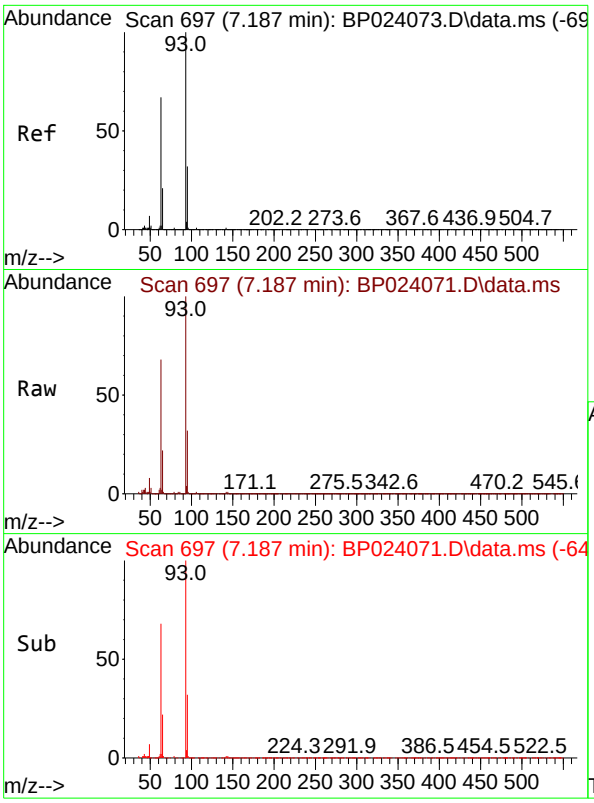


#10
Phenol
Concen: 9.287 ng
RT: 6.969 min Scan# 660
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 94 Resp: 322305

Ion	Ratio	Lower	Upper
94	100		
65	25.0	5.0	45.0
66	31.2	11.6	51.6

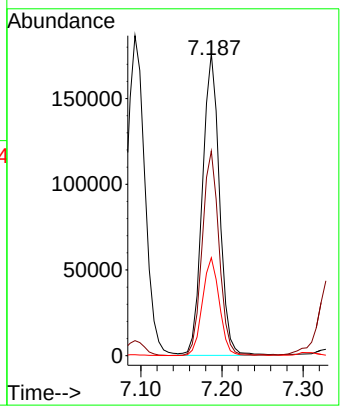




#11
bis(2-Chloroethyl)ether
Concen: 9.412 ng
RT: 7.187 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 93 Resp: 25729

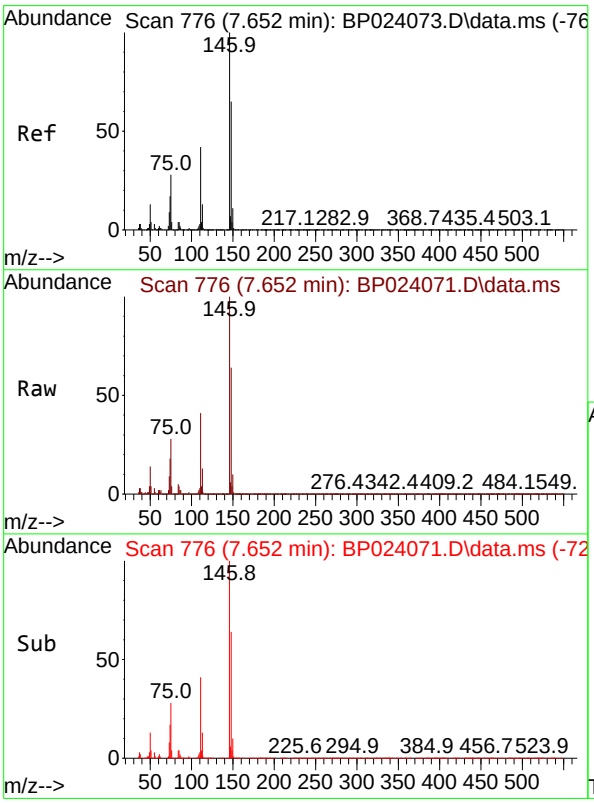
Ion	Ratio	Lower	Upper
93	100		
63	67.7	46.5	86.5
95	32.4	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

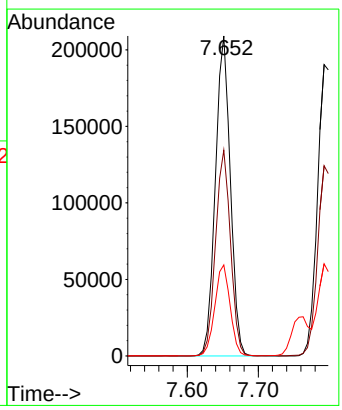
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

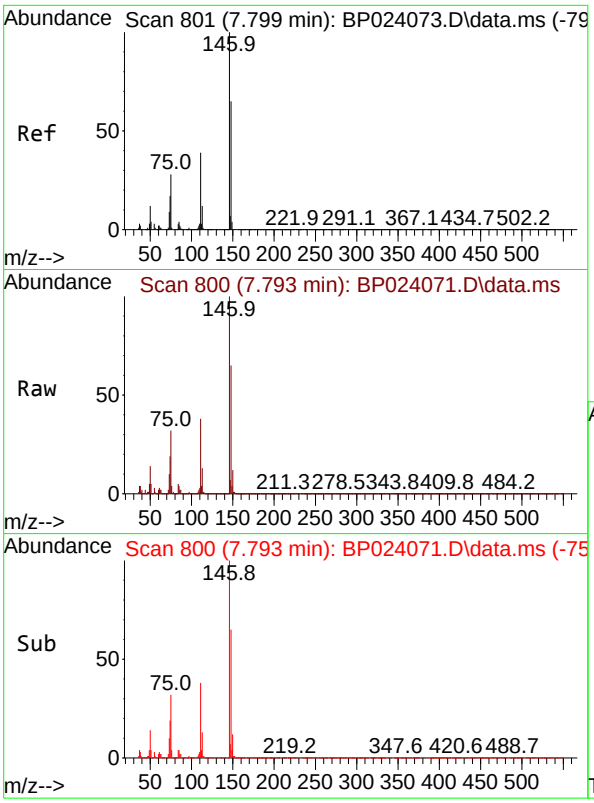


#12
1,3-Dichlorobenzene
Concen: 9.772 ng
RT: 7.652 min Scan# 776
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:146 Resp: 305134

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.8	77.8
75	28.4	22.6	33.8

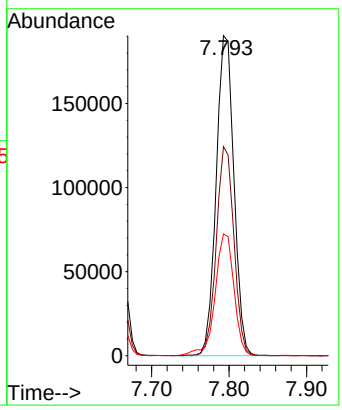




#13
1,4-Dichlorobenzene
Concen: 9.587 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:146 Resp: 30272

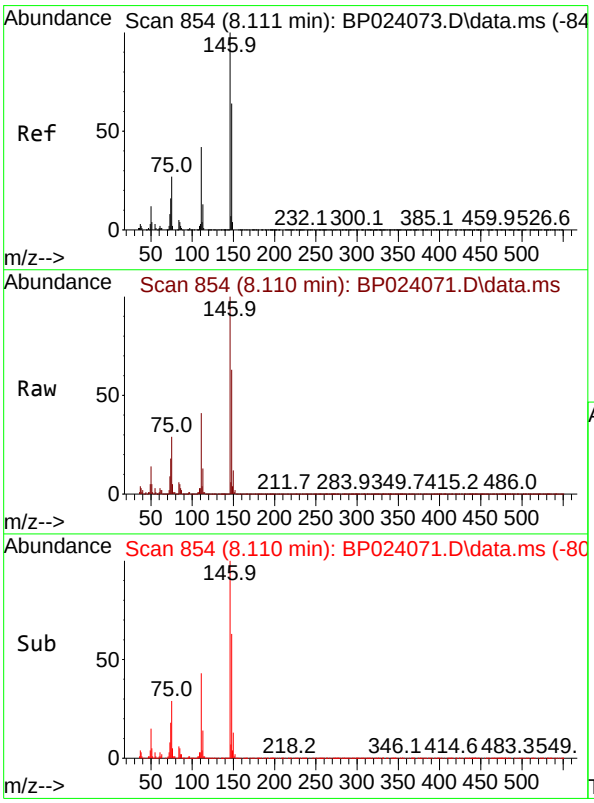
Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.6	77.4
111	38.0	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

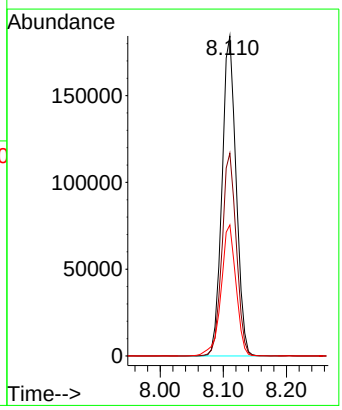
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

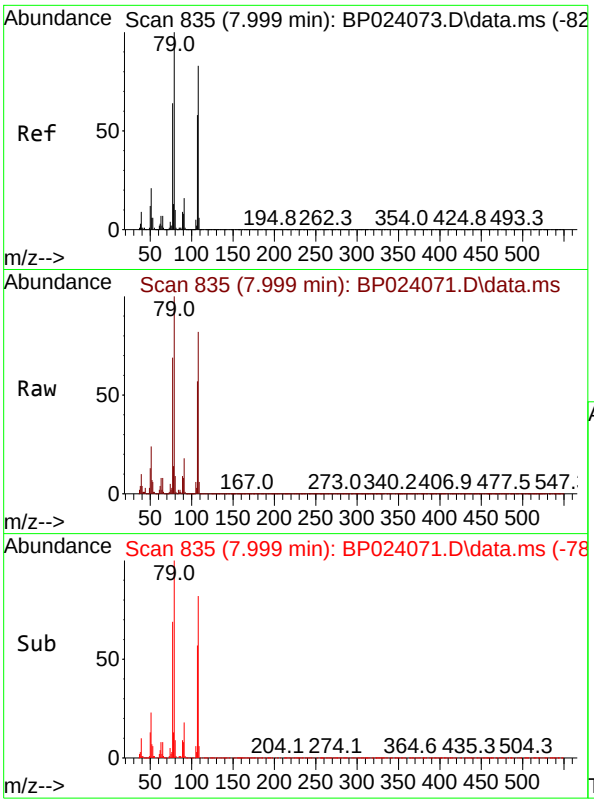


#14
1,2-Dichlorobenzene
Concen: 9.463 ng
RT: 8.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:146 Resp: 286767

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.2	76.8
111	41.0	33.4	50.0

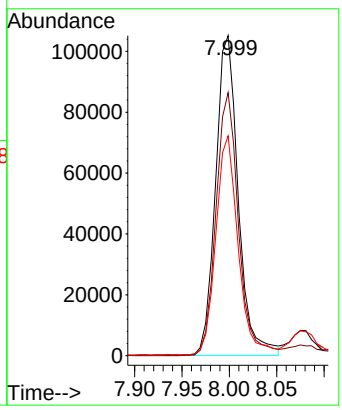




#15
Benzyl Alcohol
Concen: 8.274 ng
RT: 7.999 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 79 Resp: 17479

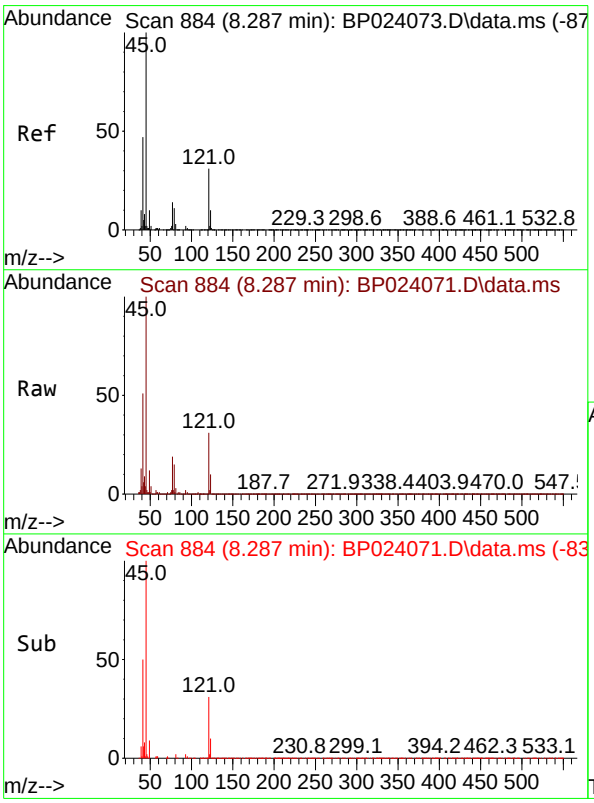
Ion	Ratio	Lower	Upper
79	100		
108	82.2	66.4	99.6
77	68.7	51.3	76.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

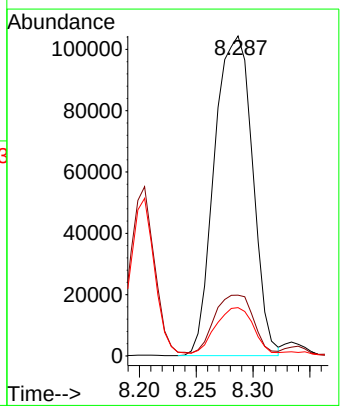
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

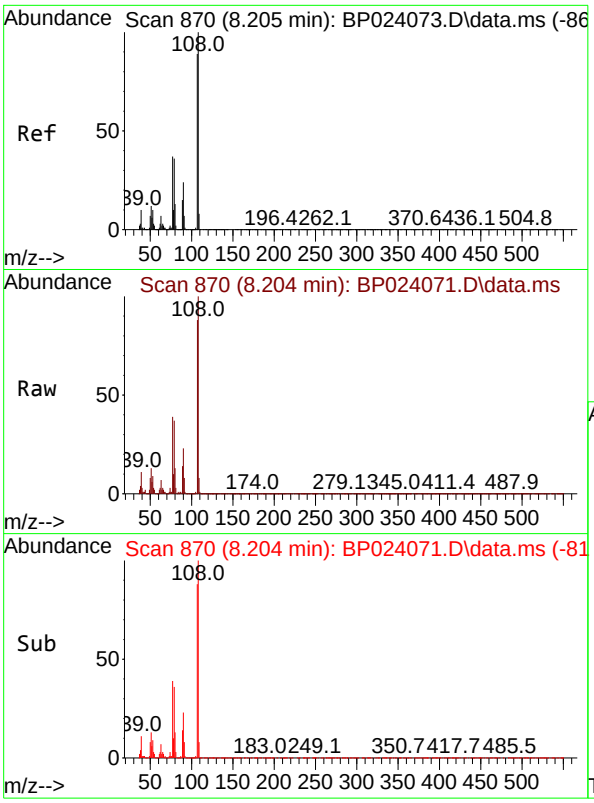


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.157 ng
RT: 8.287 min Scan# 884
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 45 Resp: 242986

Ion	Ratio	Lower	Upper
45	100		
77	19.0	0.0	38.8
79	15.1	0.0	35.4

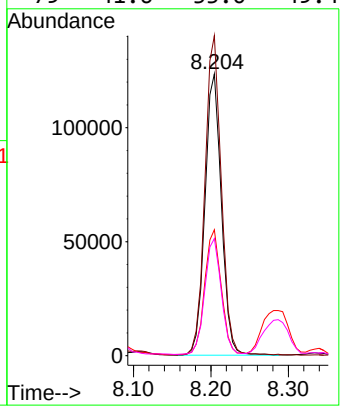




#17
2-Methylphenol
Concen: 8.594 ng
RT: 8.204 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:107 Resp: 18176

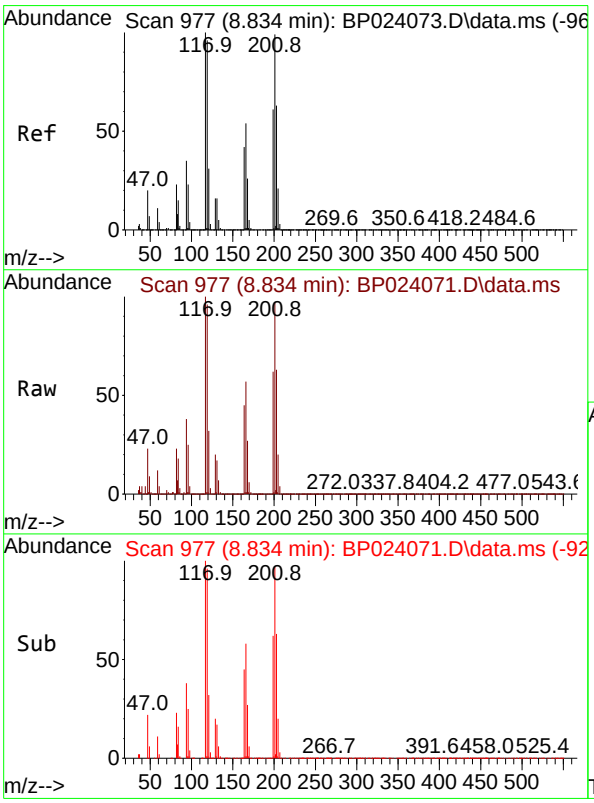
Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.0	135.0
77	44.7	33.8	50.6
79	41.6	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

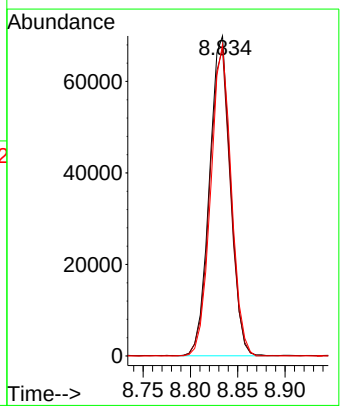
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

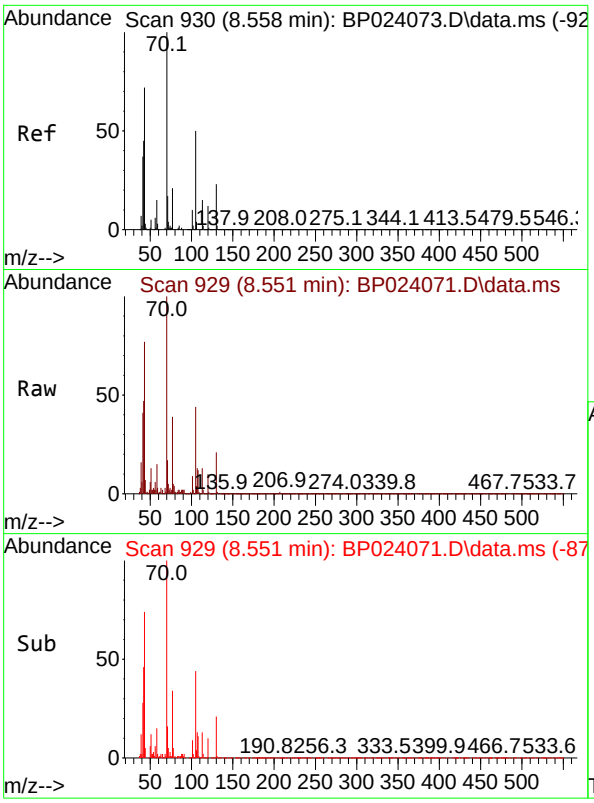


#18
Hexachloroethane
Concen: 9.485 ng
RT: 8.834 min Scan# 977
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:117 Resp: 107861

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.9	115.3
201	97.3	79.4	119.2

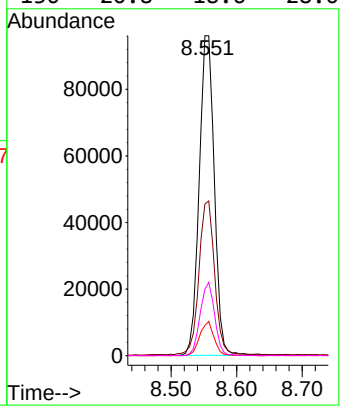




#19
n-Nitroso-di-n-propylamine
Concen: 8.325 ng
RT: 8.551 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 70 Resp: 15448

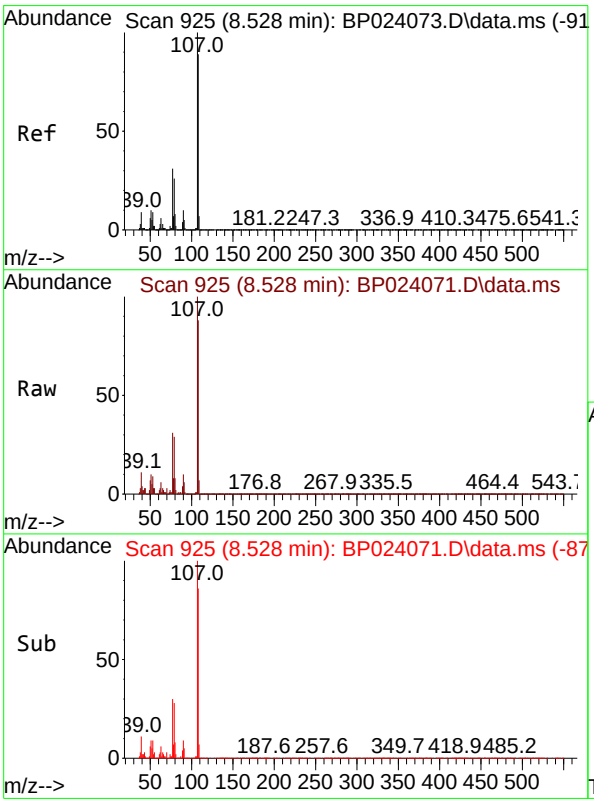
Ion	Ratio	Lower	Upper
70	100		
42	47.4	36.6	54.8
101	9.5	8.2	12.2
130	20.8	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

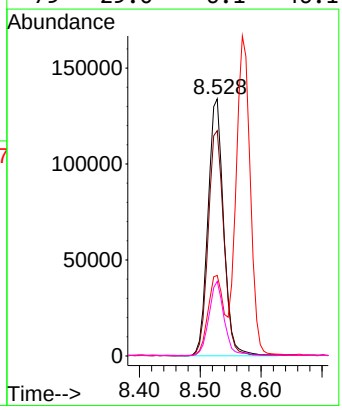
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

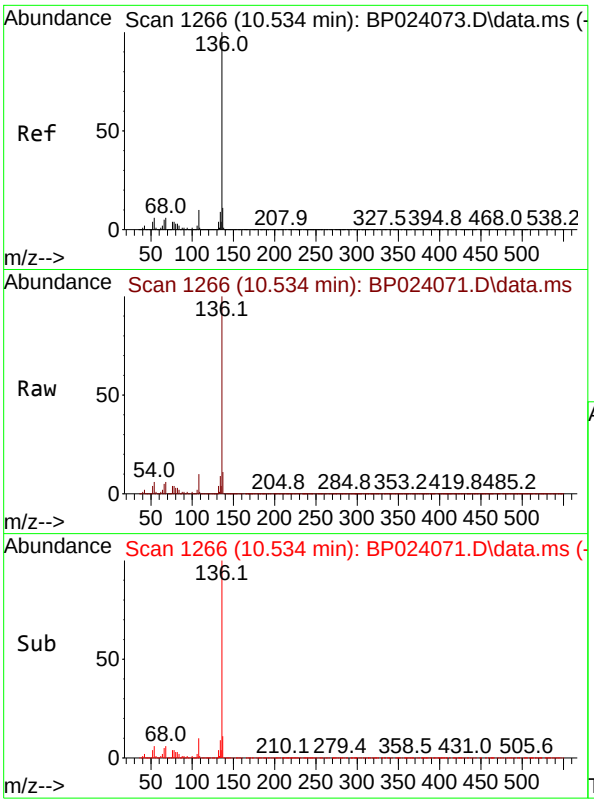


#20
3+4-Methylphenols
Concen: 8.317 ng
RT: 8.528 min Scan# 925
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:107 Resp: 239285

Ion	Ratio	Lower	Upper
107	100		
108	87.6	68.5	108.5
77	31.3	10.7	50.7
79	29.0	6.1	46.1

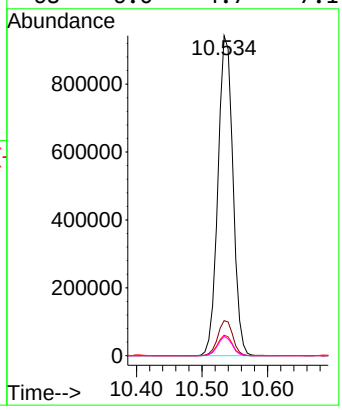




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:136 Resp: 148896

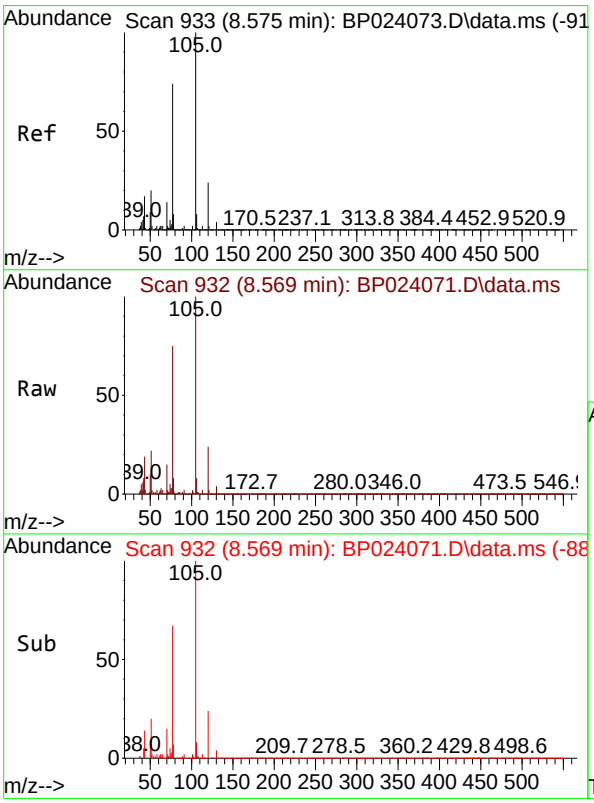
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	6.4	4.9	7.3
68	6.0	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

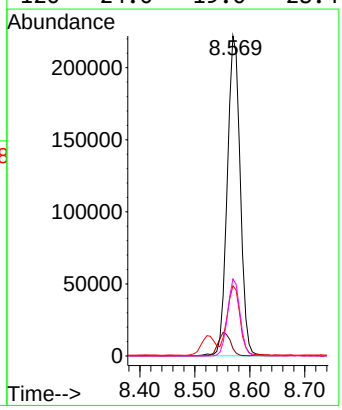
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

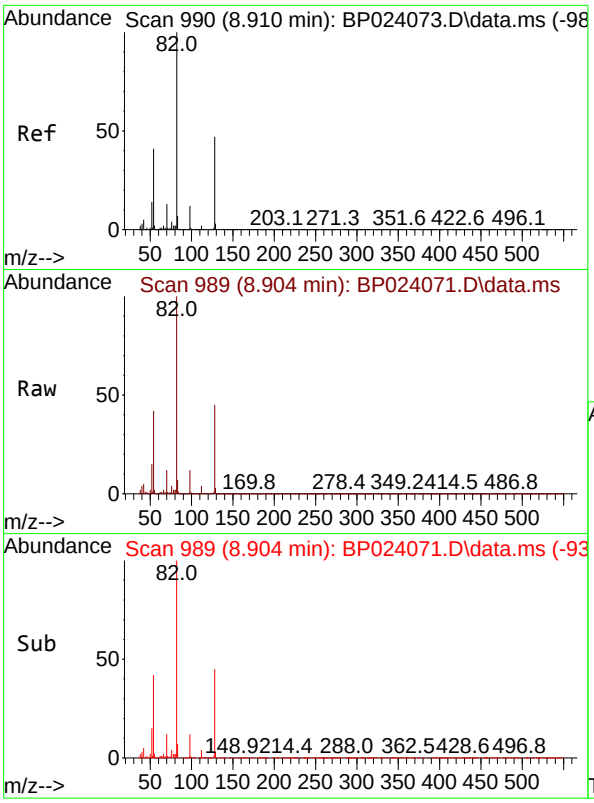


#22
Acetophenone
Concen: 9.505 ng
RT: 8.569 min Scan# 932
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:105 Resp: 363677

Ion	Ratio	Lower	Upper
105	100		
71	2.3	1.9	2.9
51	22.0	16.3	24.5
120	24.0	19.0	28.4

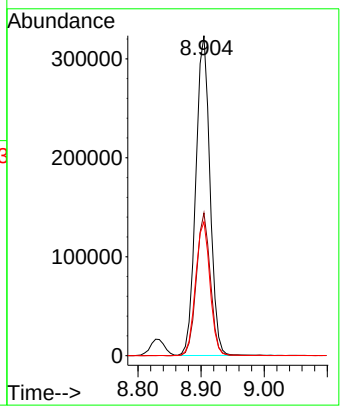




#23
Nitrobenzene-d5
Concen: 18.862 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 82 Resp: 50341

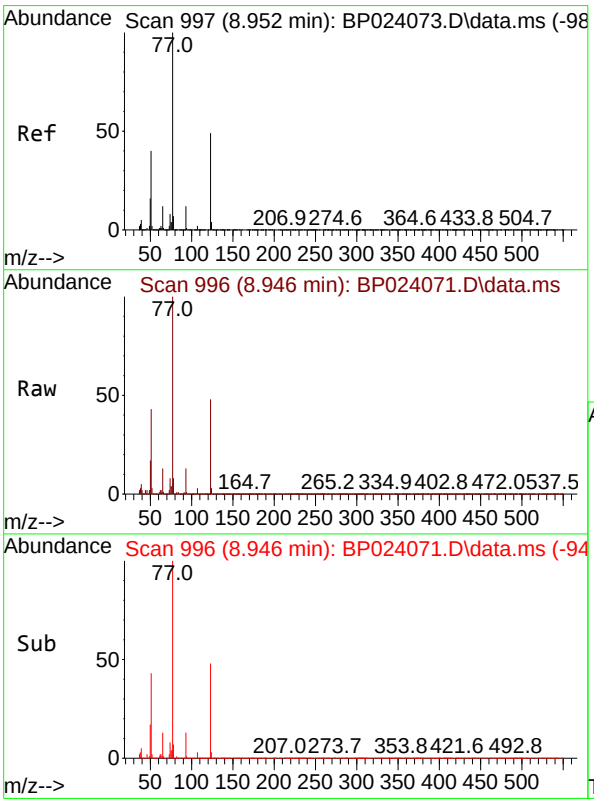
Ion	Ratio	Lower	Upper
82	100		
128	44.6	37.4	56.2
54	41.9	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

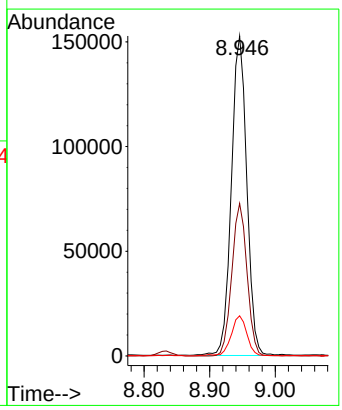
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

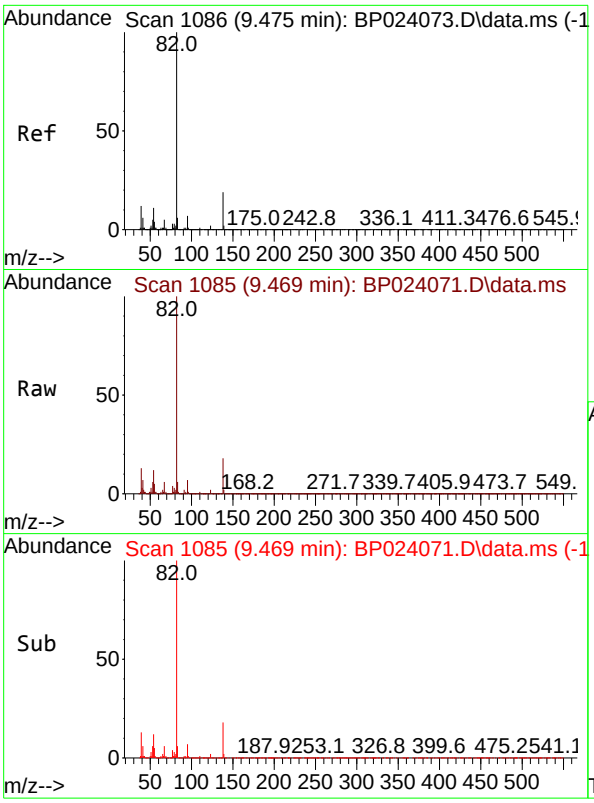


#24
Nitrobenzene
Concen: 9.499 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 77 Resp: 249498

Ion	Ratio	Lower	Upper
77	100		
123	47.7	39.4	59.2
65	12.6	9.9	14.9

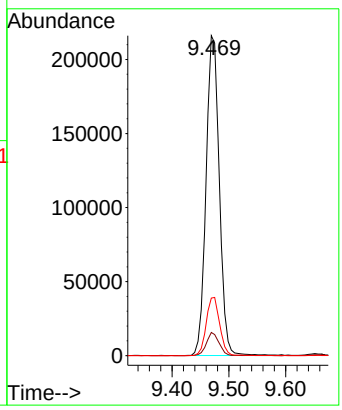




#25
Isophorone
Concen: 8.013 ng
RT: 9.469 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 82 Resp: 34972

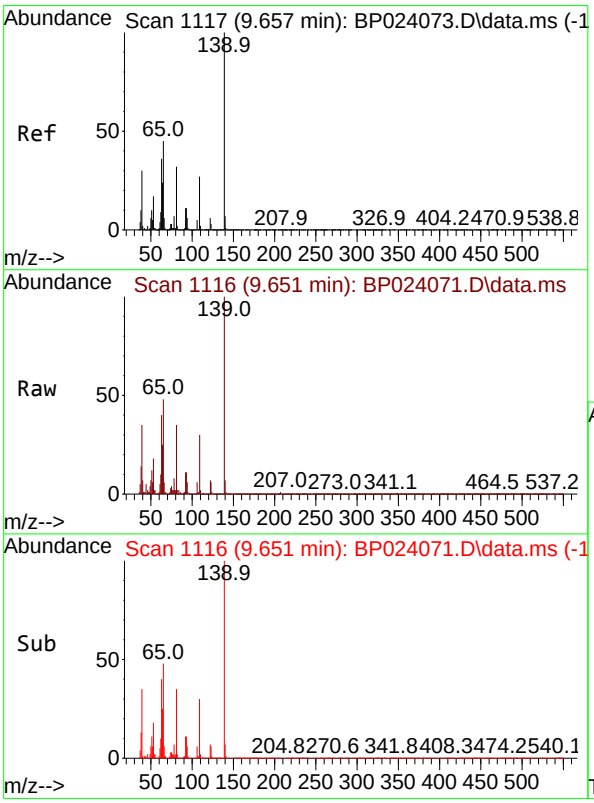
Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.4	8.0
138	18.0	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

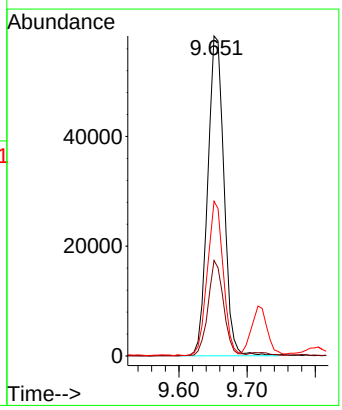
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

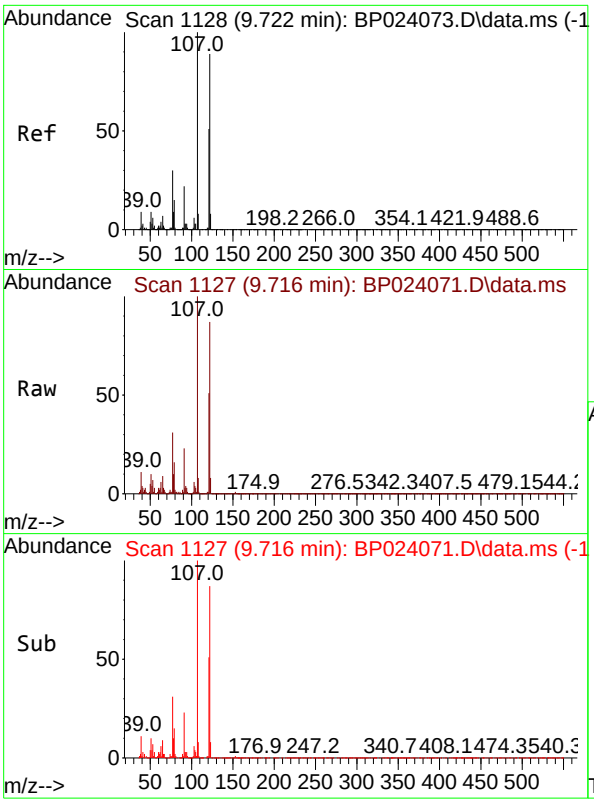


#26
2-Nitrophenol
Concen: 7.990 ng
RT: 9.651 min Scan# 1116
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:139 Resp: 96684

Ion	Ratio	Lower	Upper
139	100		
109	29.8	21.7	32.5
65	48.3	36.1	54.1

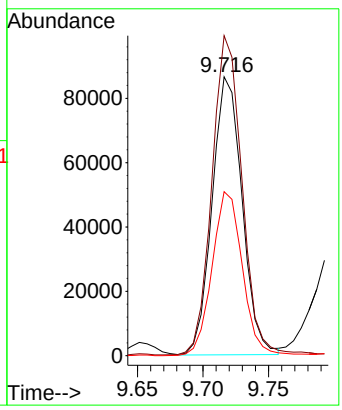




#27
2,4-Dimethylphenol
Concen: 8.667 ng
RT: 9.716 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:122 Resp: 13767

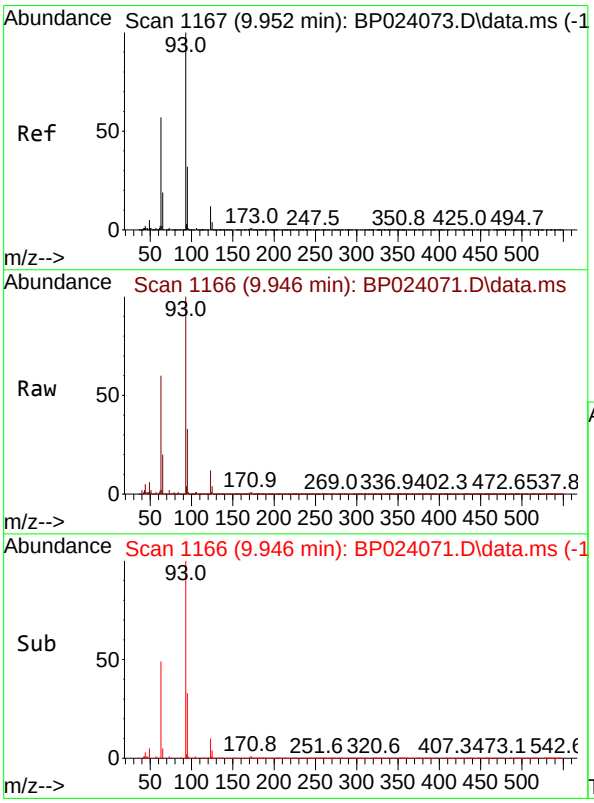
Ion	Ratio	Lower	Upper
122	100		
107	114.8	89.8	134.8
121	58.8	45.9	68.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

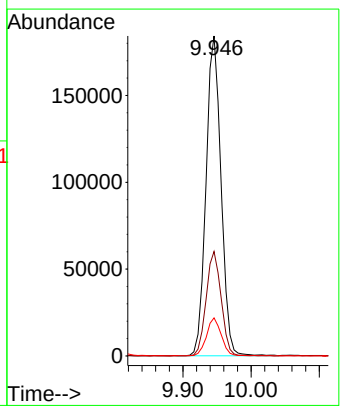
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

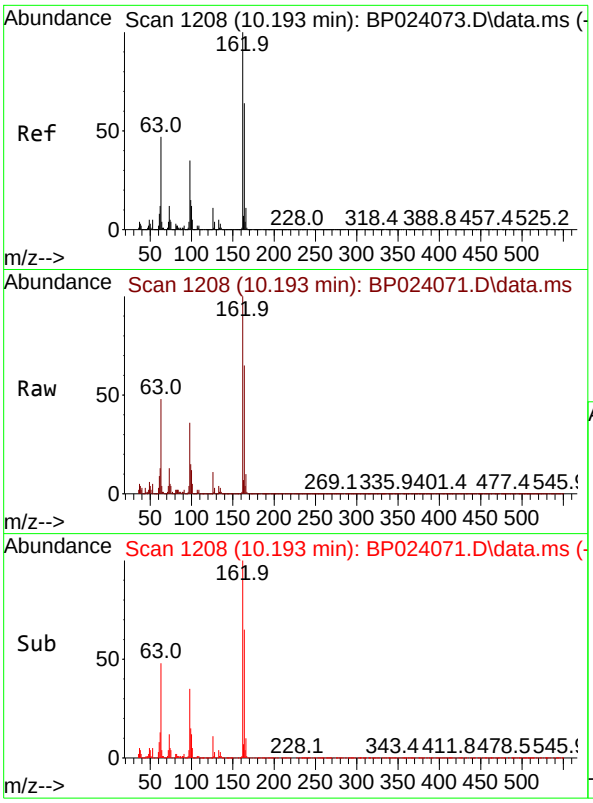


#28
bis(2-Chloroethoxy)methane
Concen: 8.924 ng
RT: 9.946 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 93 Resp: 282143

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.9	38.9
123	11.9	9.7	14.5

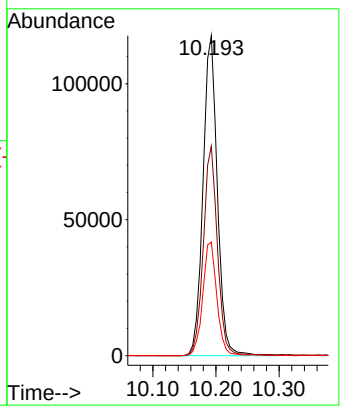




#29
2,4-Dichlorophenol
Concen: 8.603 ng
RT: 10.193 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:162 Resp: 18650

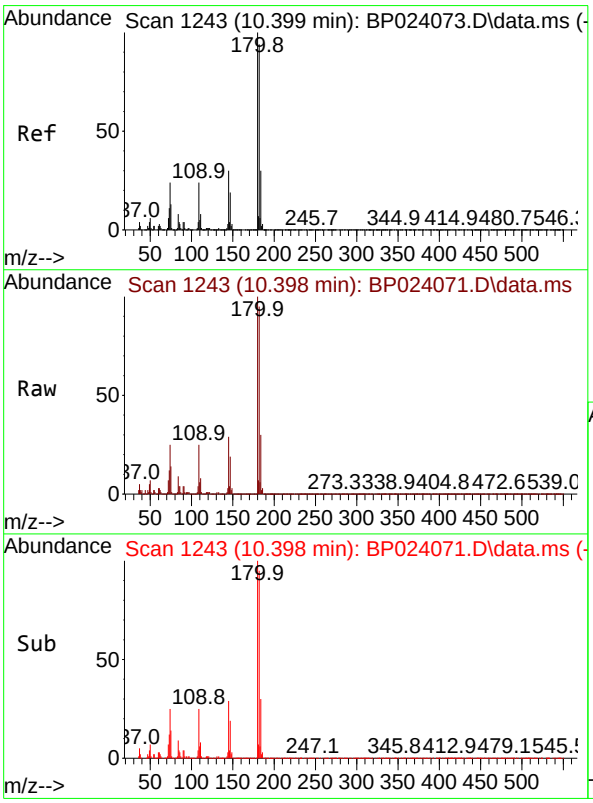
Ion	Ratio	Lower	Upper
162	100		
164	65.5	44.5	84.5
98	35.5	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

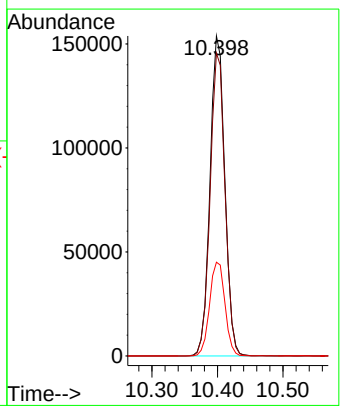
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

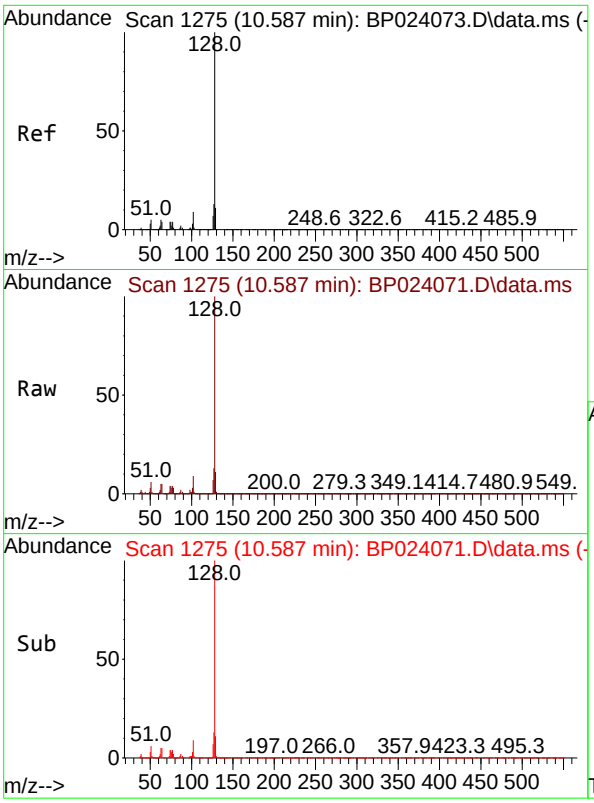


#30
1,2,4-Trichlorobenzene
Concen: 9.716 ng
RT: 10.398 min Scan# 1243
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:180 Resp: 241313

Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.4	113.2
145	29.3	24.0	36.0

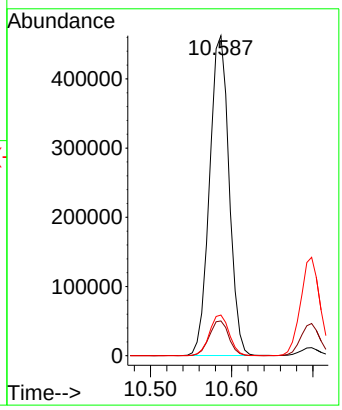




#31
Naphthalene
Concen: 9.641 ng
RT: 10.587 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:128 Resp: 7718

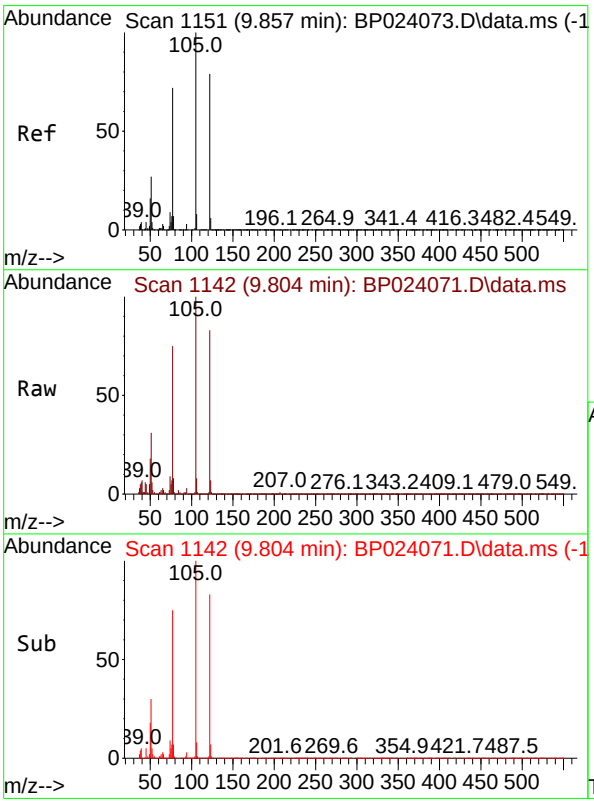
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	12.7	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

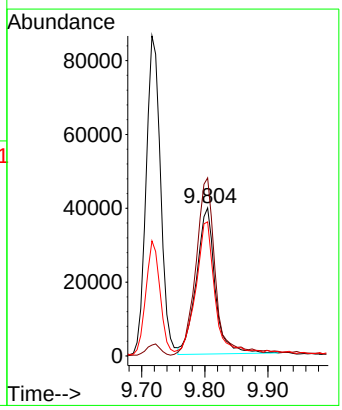
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

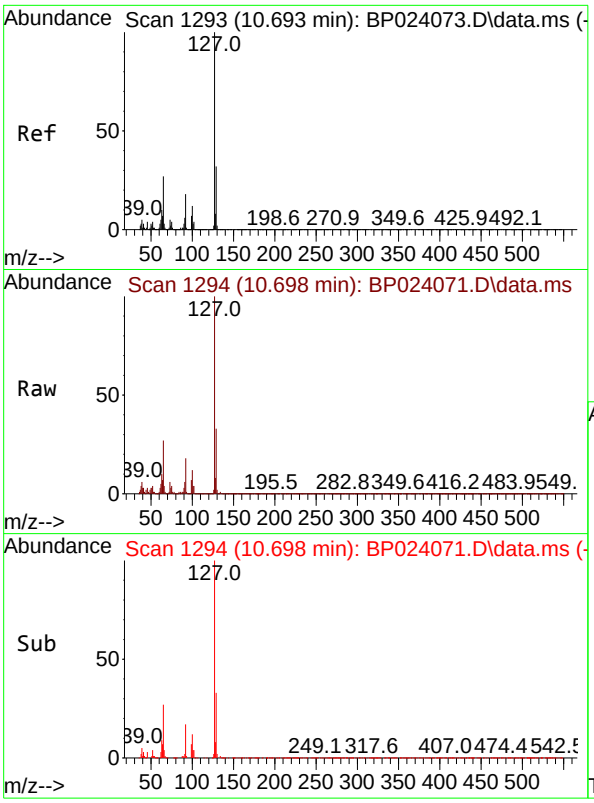


#32
Benzoic acid
Concen: 11.639 ng
RT: 9.804 min Scan# 1142
Delta R.T. -0.053 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:122 Resp: 81974

Ion	Ratio	Lower	Upper
122	100		
105	120.3	103.7	143.7
77	90.7	69.9	109.9

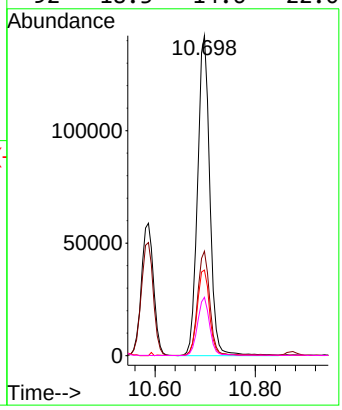




#33
4-Chloroaniline
Concen: 8.537 ng
RT: 10.698 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:127 Resp: 24079

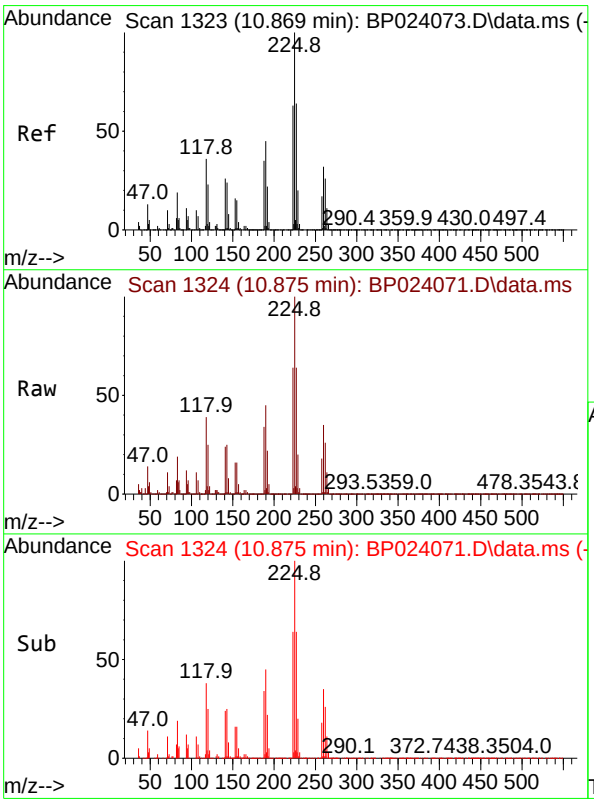
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.4	38.0
65	26.8	21.3	31.9
92	18.3	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

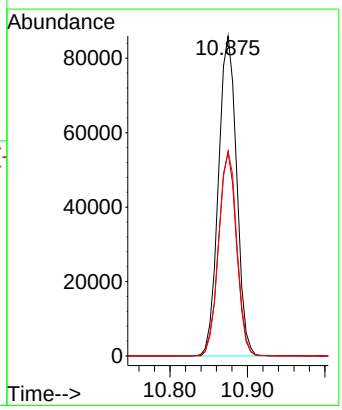
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

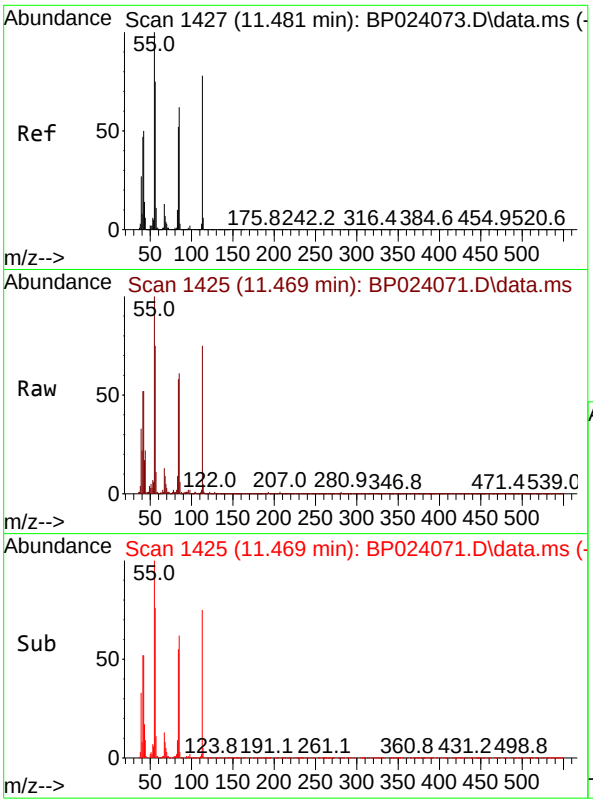


#34
Hexachlorobutadiene
Concen: 9.763 ng
RT: 10.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:225 Resp: 140457

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.5	75.7
227	63.9	51.3	76.9

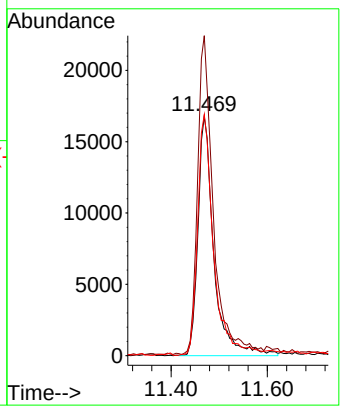




#35
Caprolactam
Concen: 10.227 ng m
RT: 11.469 min Scan# 14
Delta R.T. -0.012 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:113 Resp: 3844

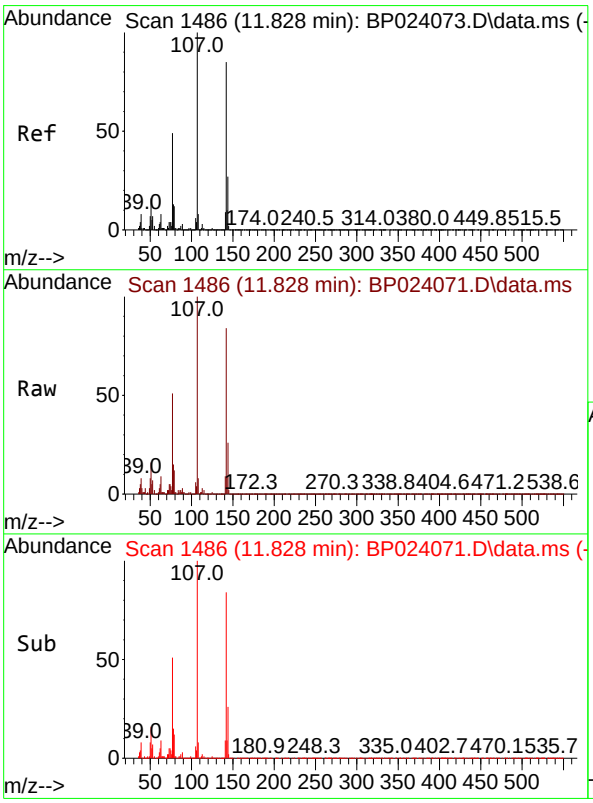
Ion	Ratio	Lower	Upper
113	100		
55	133.7	108.8	148.8
56	100.7	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

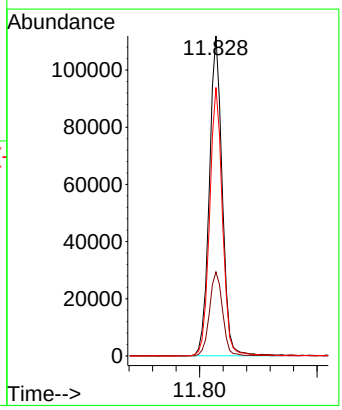
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

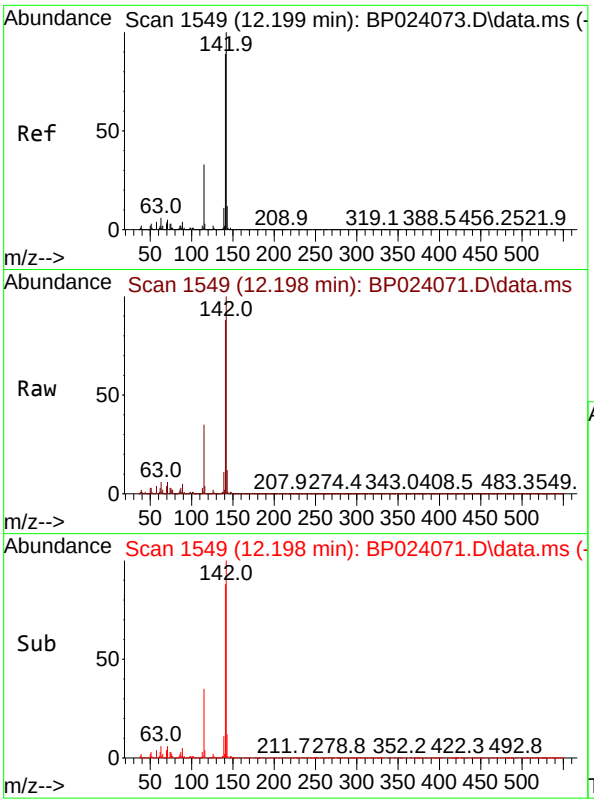


#36
4-Chloro-3-methylphenol
Concen: 7.655 ng
RT: 11.828 min Scan# 1486
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:107 Resp: 170588

Ion	Ratio	Lower	Upper
107	100		
144	26.2	21.8	32.8
142	83.9	67.8	101.8





#37
2-Methylnaphthalene
Concen: 8.763 ng
RT: 12.198 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

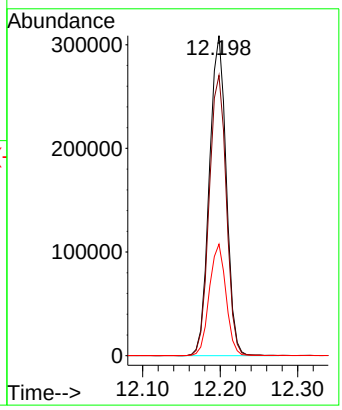
Tgt Ion:142 Resp: 46628

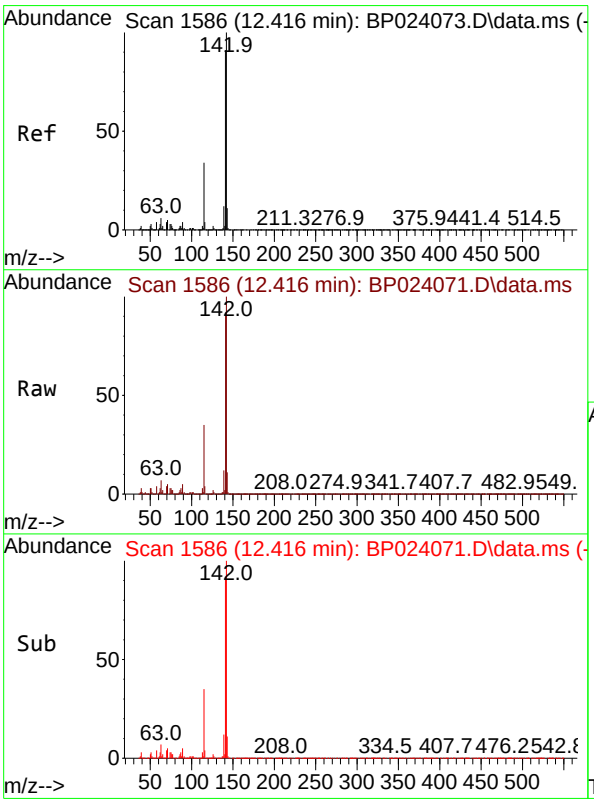
Ion	Ratio	Lower	Upper
142	100		
141	87.6	71.2	106.8
115	34.8	26.5	39.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

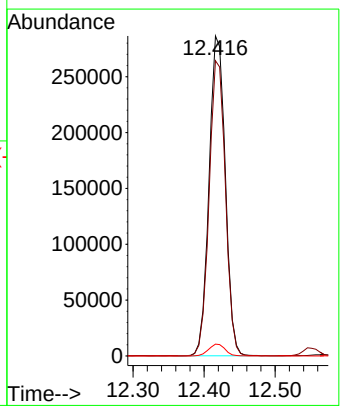


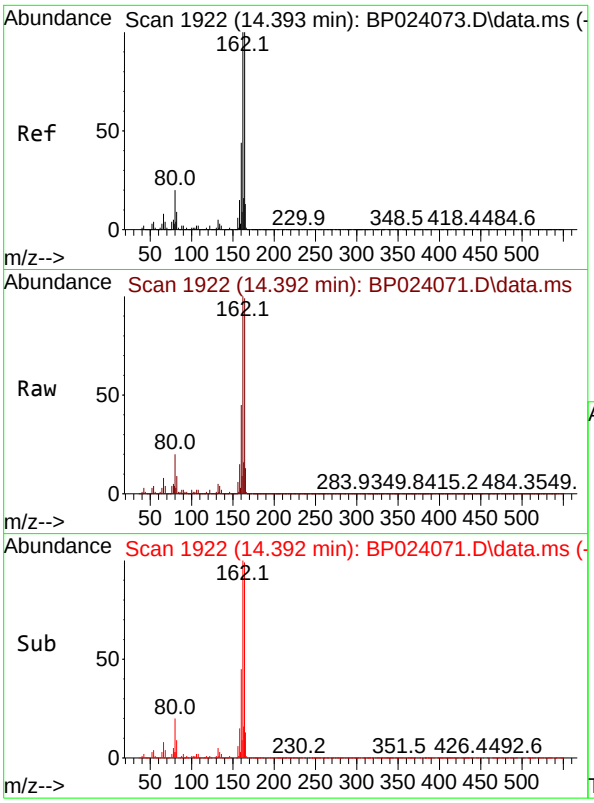


#38
1-Methylnaphthalene
Concen: 8.777 ng
RT: 12.416 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:142 Resp: 454358

Ion	Ratio	Lower	Upper
142	100		
141	92.3	73.0	109.6
116	3.7	2.8	4.2

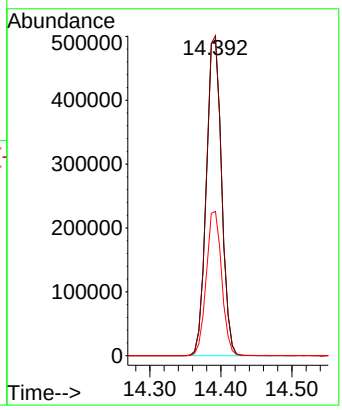




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:164 Resp: 73971

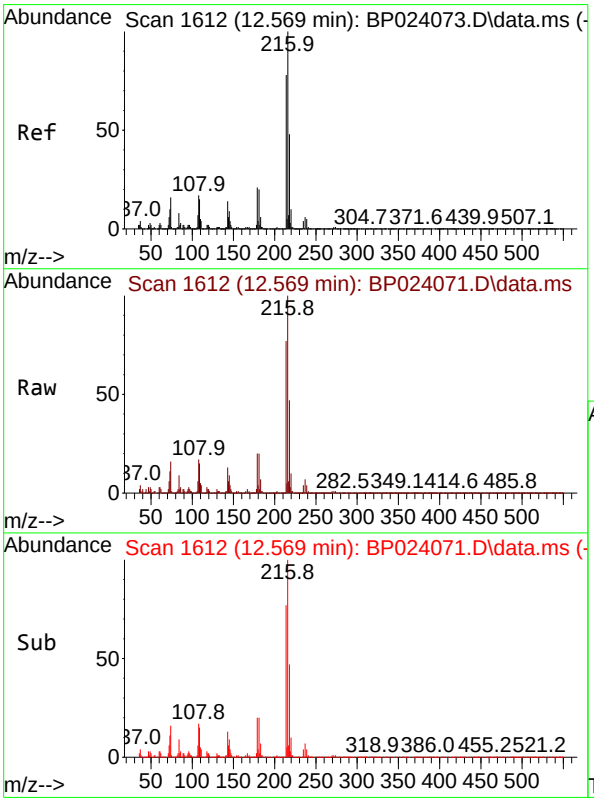
Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.1	120.1
160	45.6	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

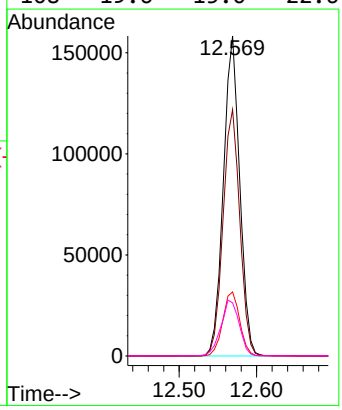
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

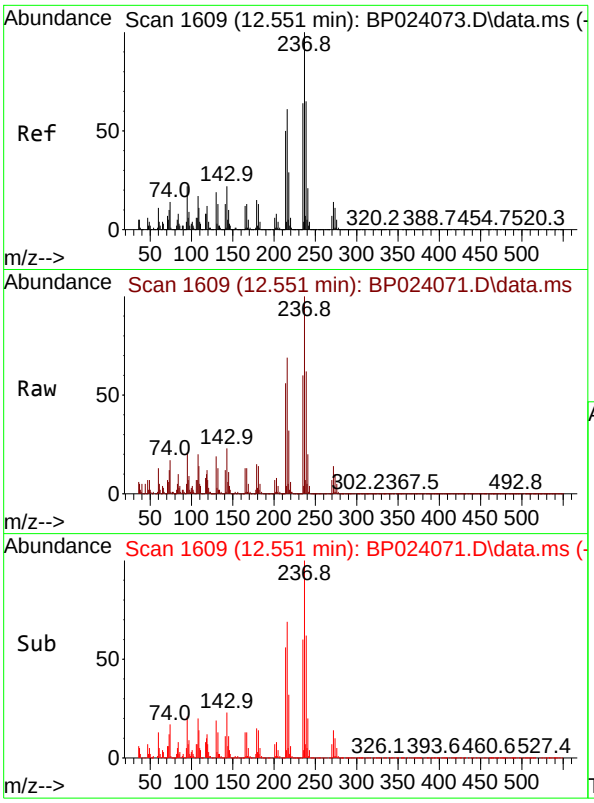


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.230 ng
RT: 12.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:216 Resp: 232512

Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.7	94.1
179	20.8	16.6	25.0
108	19.6	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 9.920 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

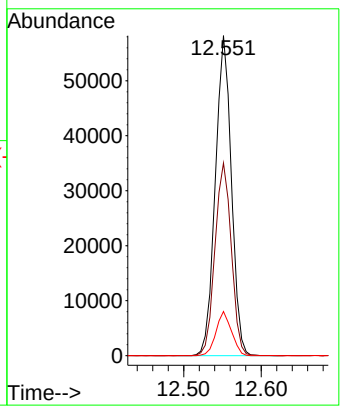
Instrument :
BNA_P
ClientSampleId :
SSTDICC010

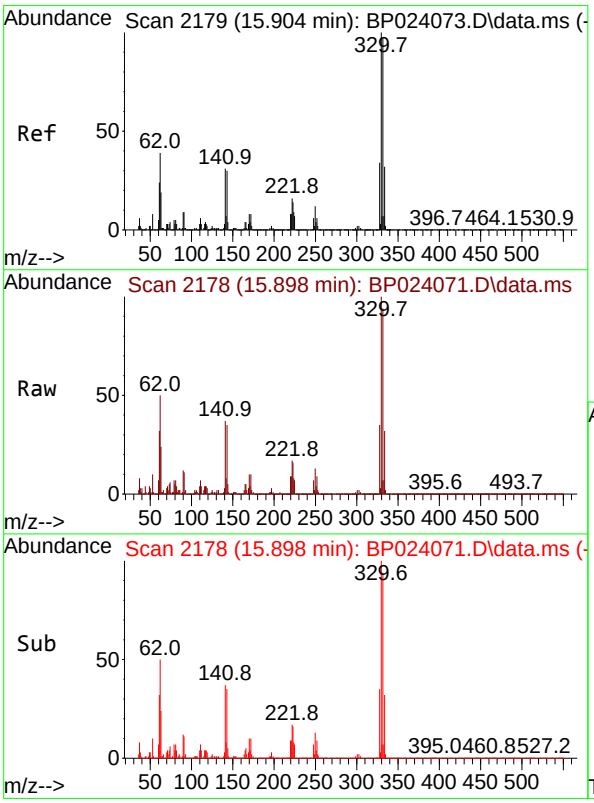
Tgt Ion:237 Resp: 8389

Ion	Ratio	Lower	Upper
237	100		
235	60.2	43.5	83.5
272	13.8	0.0	33.7

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

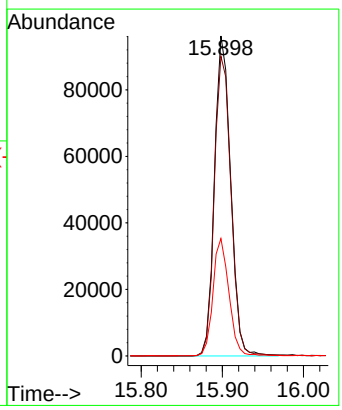


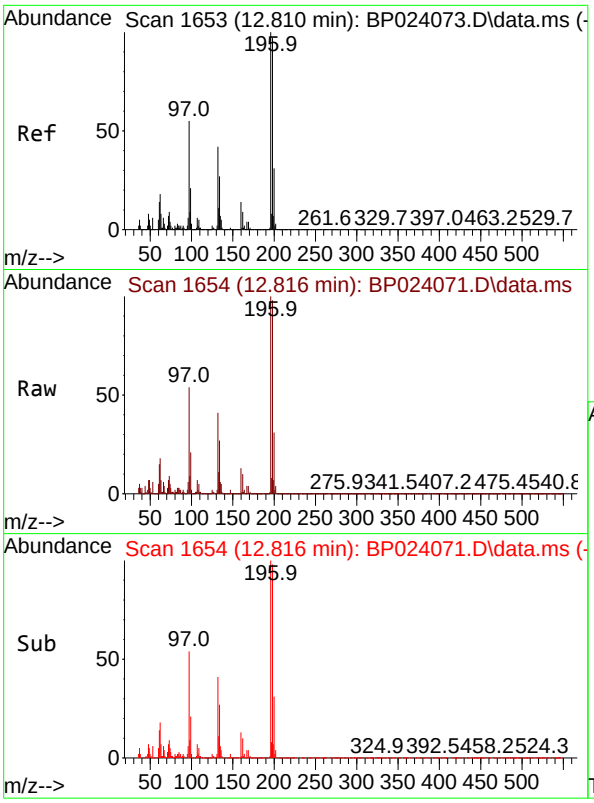


#42
2,4,6-Tribromophenol
Concen: 14.761 ng
RT: 15.898 min Scan# 2178
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:330 Resp: 133745

Ion	Ratio	Lower	Upper
330	100		
332	95.9	77.0	115.4
141	35.9	28.3	42.5

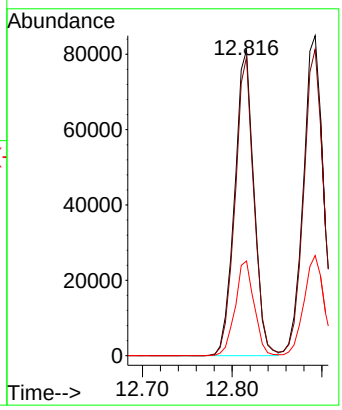




#43
2,4,6-Trichlorophenol
Concen: 8.735 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:196 Resp: 12107

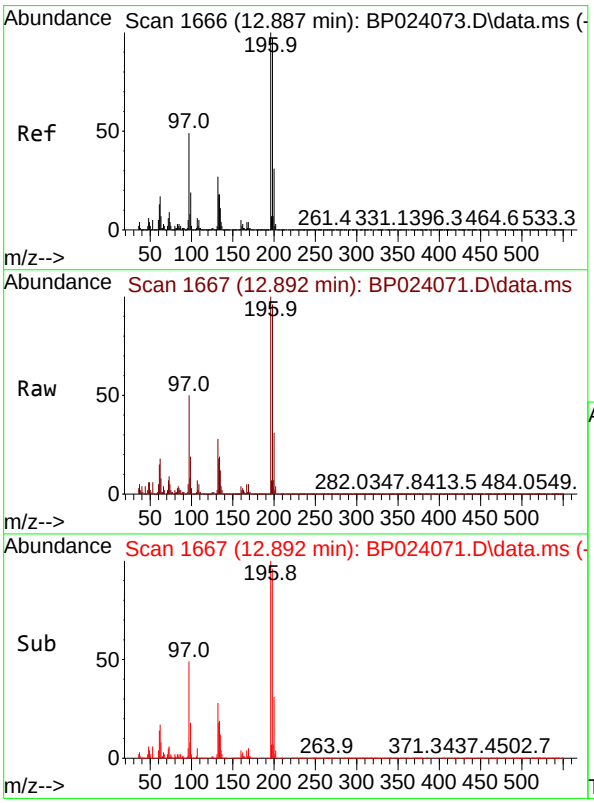
Ion	Ratio	Lower	Upper
196	100		
198	97.7	77.8	116.6
200	31.0	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

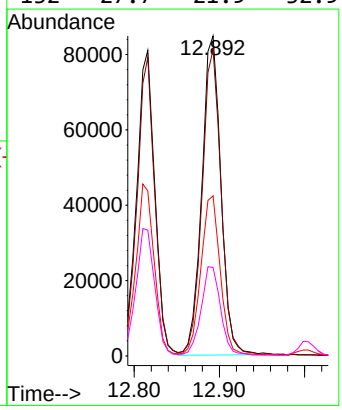
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

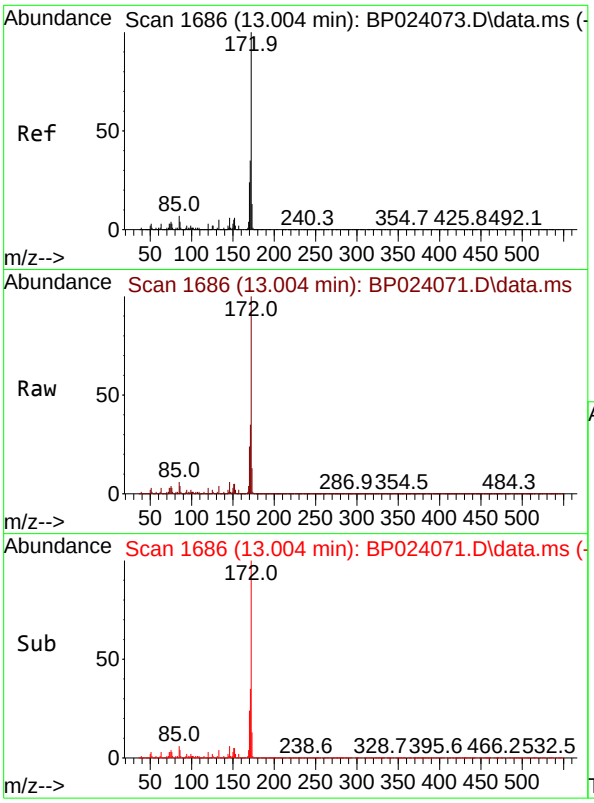


#44
2,4,5-Trichlorophenol
Concen: 8.714 ng
RT: 12.892 min Scan# 1667
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:196 Resp: 132100

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.4	116.2
97	50.0	39.0	58.4
132	27.7	21.9	32.9

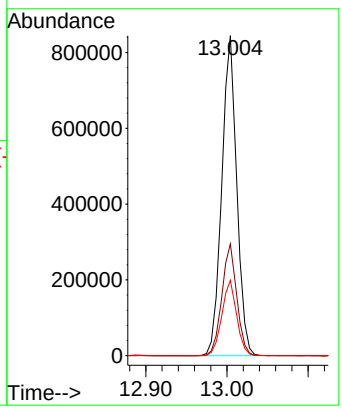




#45
2-Fluorobiphenyl
Concen: 20.490 ng
RT: 13.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:172 Resp: 108415

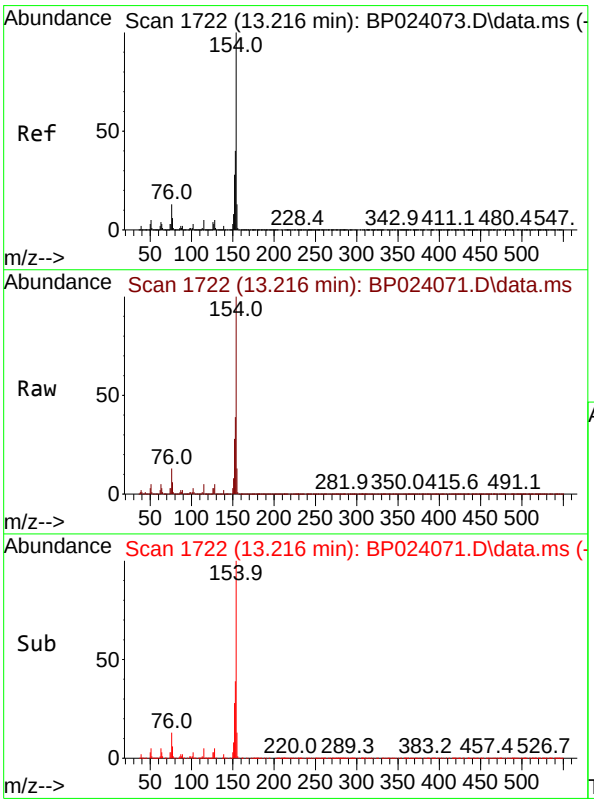
Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.2	42.2
170	23.6	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

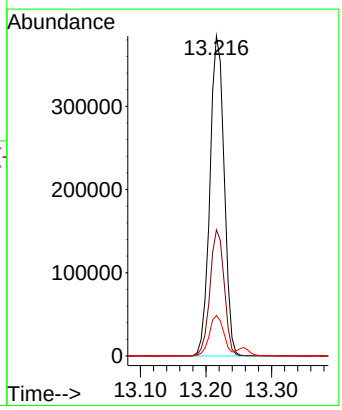
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

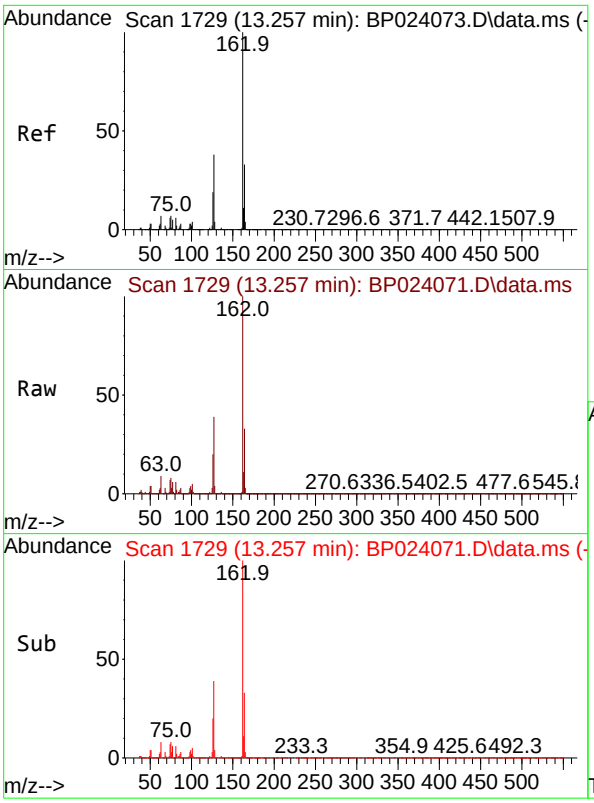


#46
1,1'-Biphenyl
Concen: 10.102 ng
RT: 13.216 min Scan# 1722
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:154 Resp: 580672

Ion	Ratio	Lower	Upper
154	100		
153	39.4	20.0	60.0
76	12.6	0.0	32.6

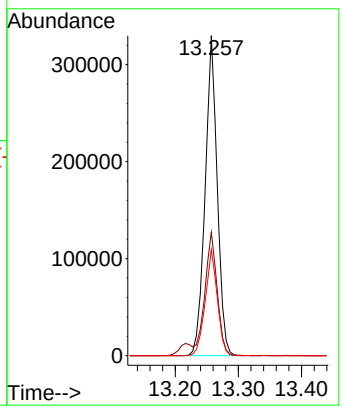




#47
2-Chloronaphthalene
Concen: 10.135 ng
RT: 13.257 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:162 Resp: 44038

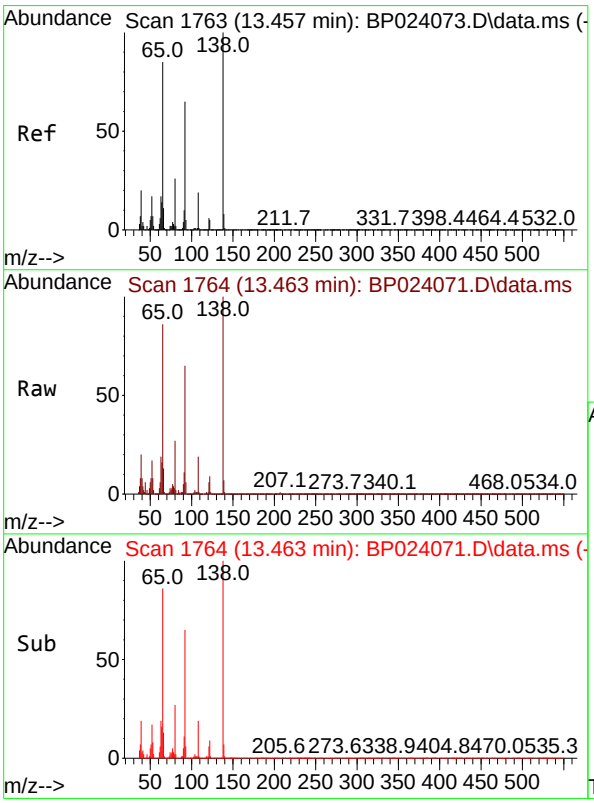
Ion	Ratio	Lower	Upper
162	100		
127	38.6	30.7	46.1
164	33.1	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

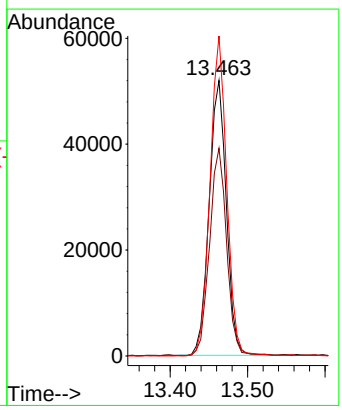
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

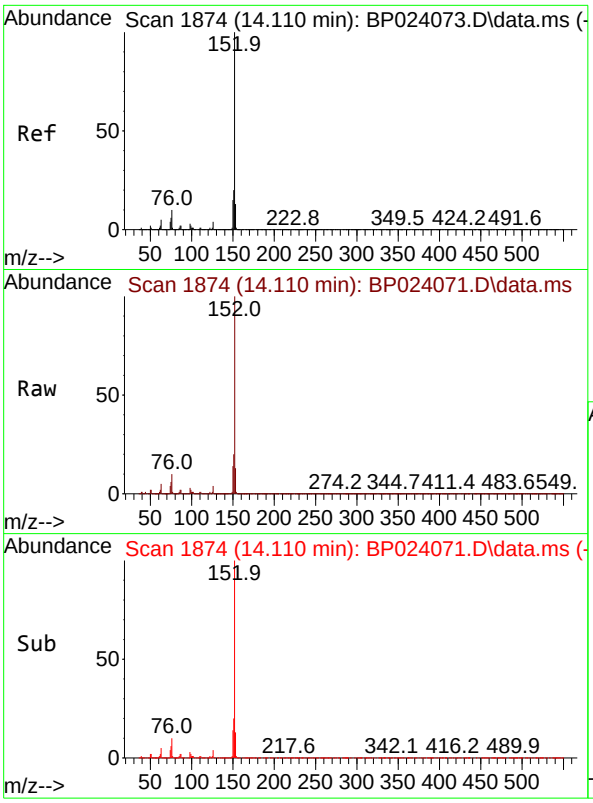


#48
2-Nitroaniline
Concen: 7.828 ng
RT: 13.463 min Scan# 1764
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 65 Resp: 80349

Ion	Ratio	Lower	Upper
65	100		
92	75.4	61.7	92.5
138	116.1	94.6	142.0

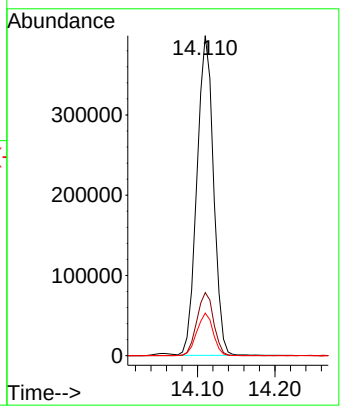




#49
Acenaphthylene
Concen: 9.249 ng
RT: 14.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:152 Resp: 59214

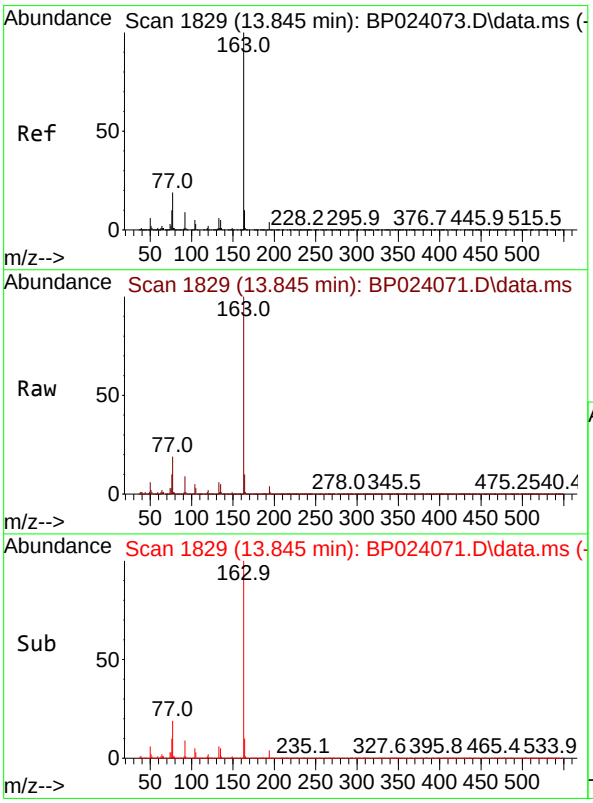
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.3	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

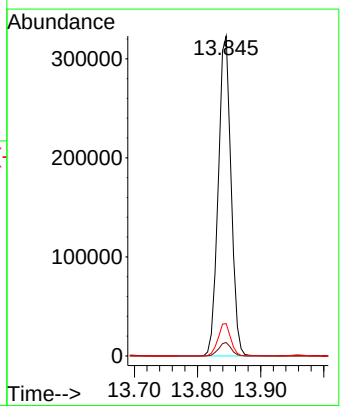
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

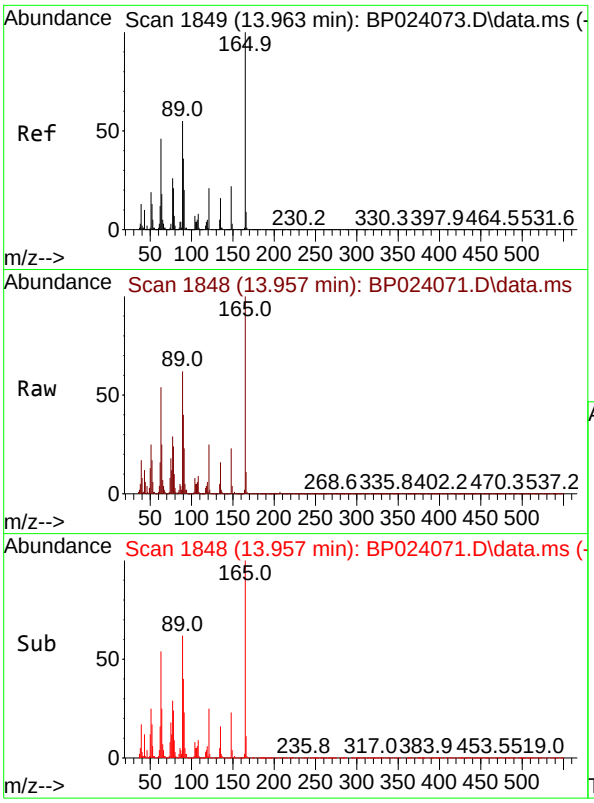


#50
Dimethylphthalate
Concen: 8.724 ng
RT: 13.845 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:163 Resp: 455221

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.1	8.1	12.1

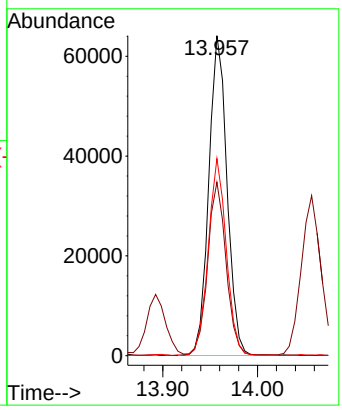




#51
2,6-Dinitrotoluene
Concen: 8.053 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:165 Resp: 8559

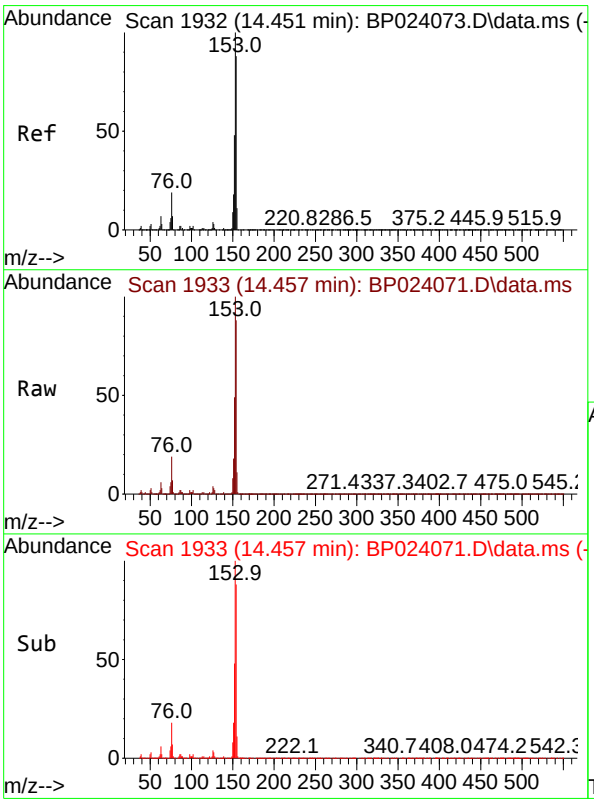
Ion	Ratio	Lower	Upper
165	100		
63	54.2	40.1	60.1
89	61.6	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

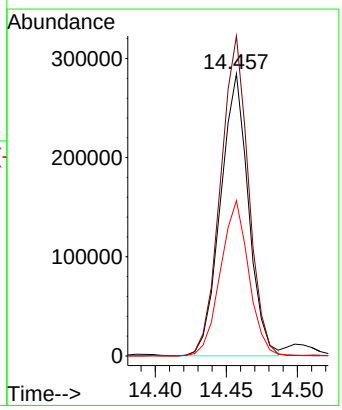
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

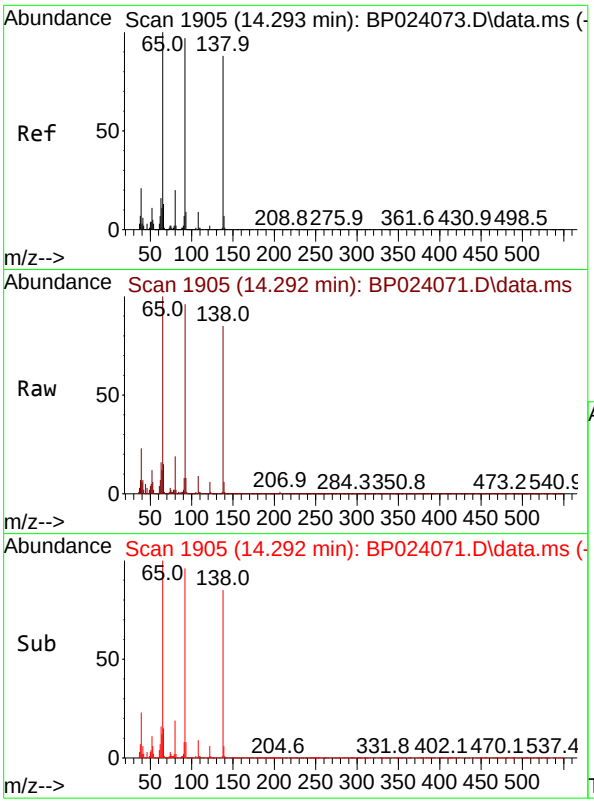


#52
Acenaphthene
Concen: 9.444 ng
RT: 14.457 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:154 Resp: 389324

Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.6	135.8
152	55.0	43.6	65.4





#53
3-Nitroaniline
Concen: 7.574 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

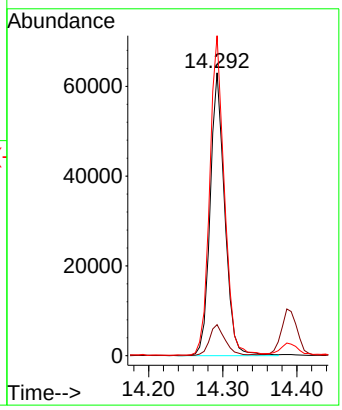
Tgt Ion:138 Resp: 8590

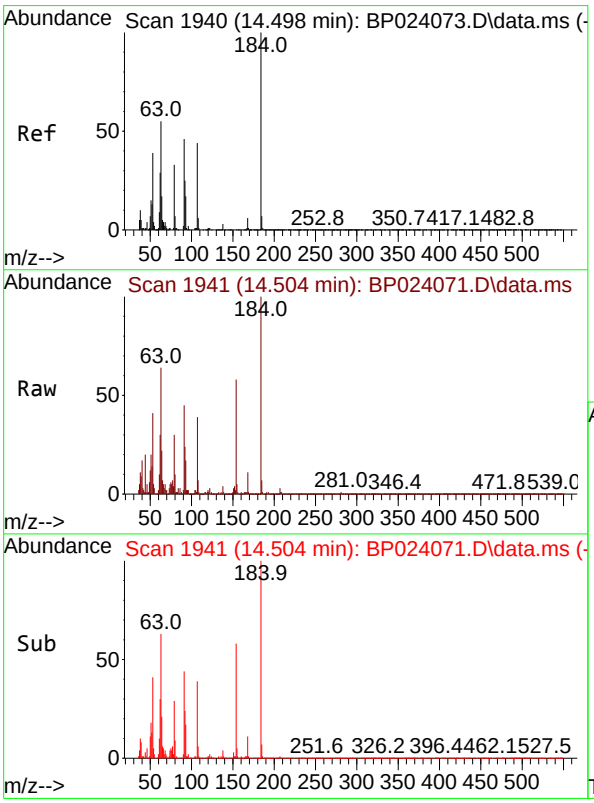
Ion	Ratio	Lower	Upper
138	100		
108	10.9	7.8	11.8
92	113.1	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

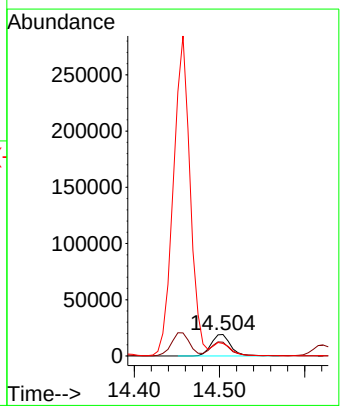


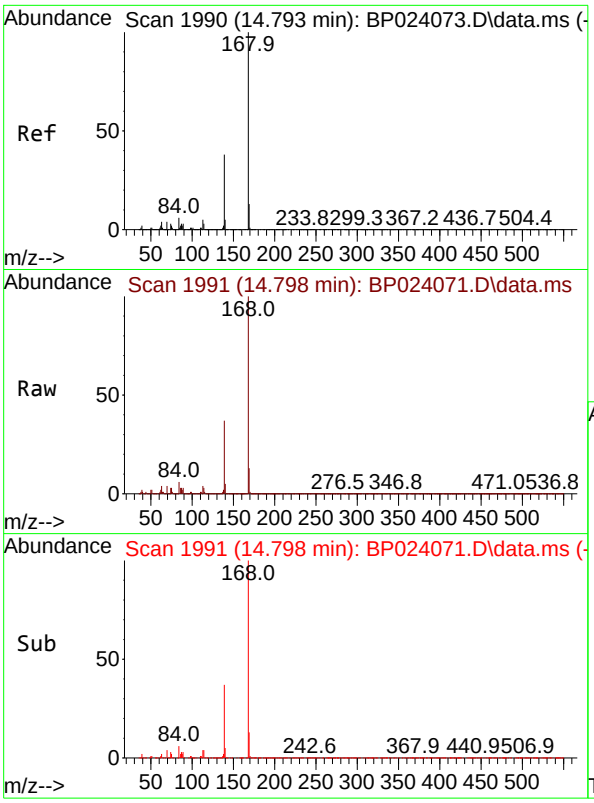


#54
2,4-Dinitrophenol
Concen: 11.711 ng
RT: 14.504 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:184 Resp: 30515

Ion	Ratio	Lower	Upper
184	100		
63	63.8	49.4	74.0
154	58.2	49.2	73.8

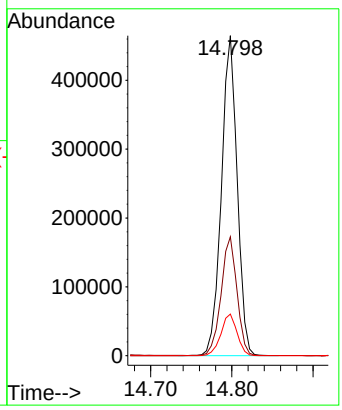




#55
Dibenzofuran
Concen: 9.378 ng
RT: 14.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:168 Resp: 62806

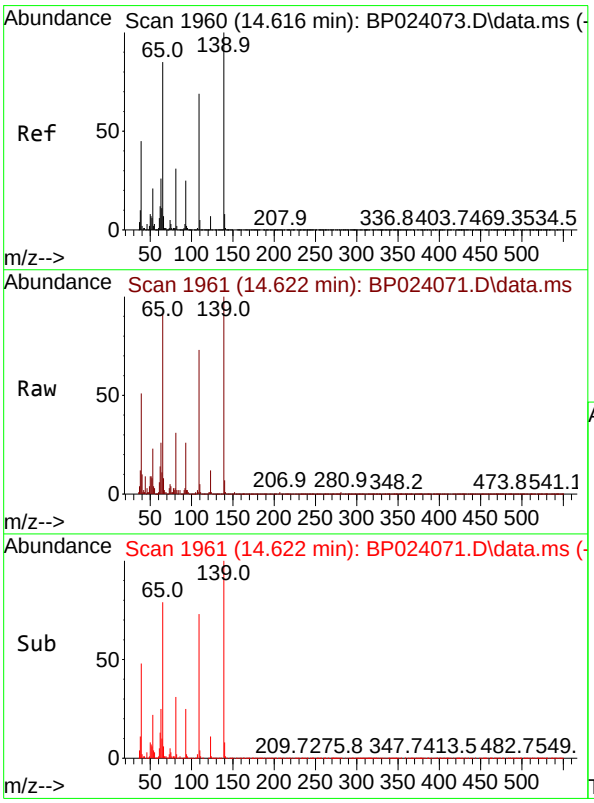
Ion	Ratio	Lower	Upper
168	100		
139	37.1	30.2	45.2
169	13.0	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

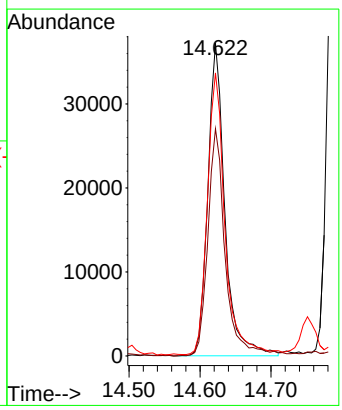
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

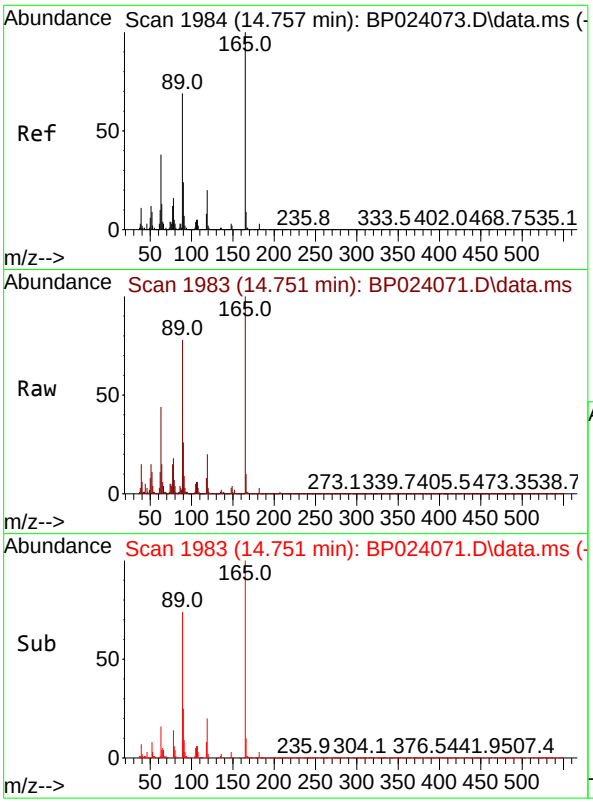


#56
4-Nitrophenol
Concen: 6.358 ng
RT: 14.622 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:139 Resp: 62296

Ion	Ratio	Lower	Upper
139	100		
109	72.7	49.2	89.2
65	90.6	65.4	105.4

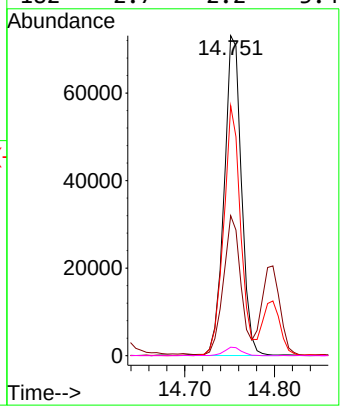




#57
2,4-Dinitrotoluene
Concen: 7.077 ng
RT: 14.751 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:165 Resp: 9771

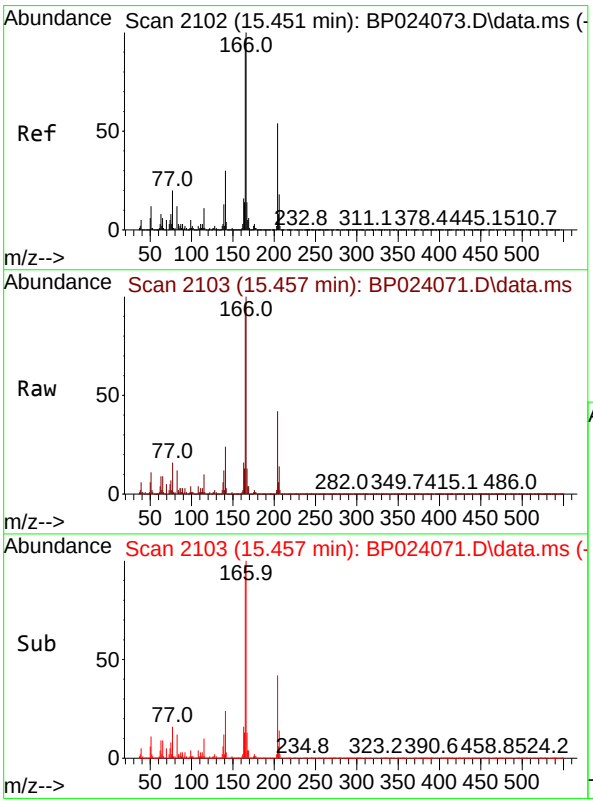
Ion	Ratio	Lower	Upper
165	100		
63	43.7	30.4	45.6
89	78.1	54.8	82.2
182	2.7	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

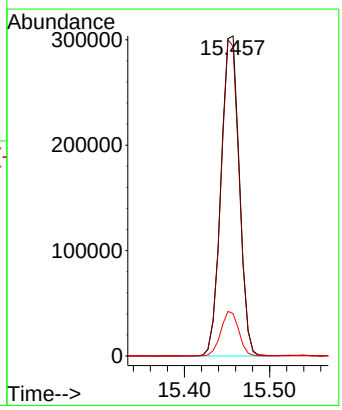
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

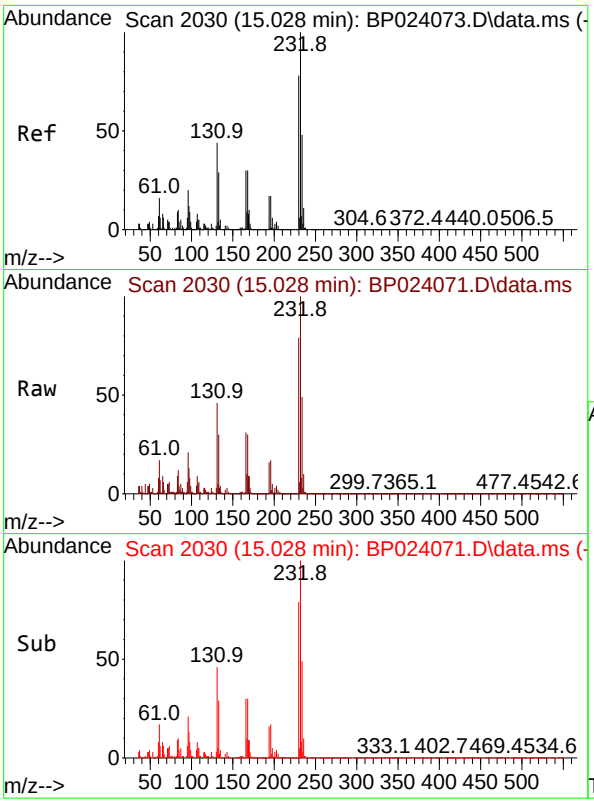


#58
Fluorene
Concen: 8.684 ng
RT: 15.457 min Scan# 2103
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:166 Resp: 454216

Ion	Ratio	Lower	Upper
166	100		
165	96.7	77.5	116.3
167	13.3	10.9	16.3

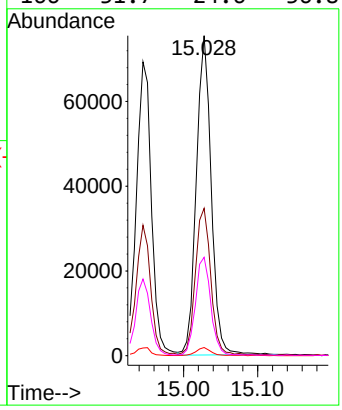




#59
2,3,4,6-Tetrachlorophenol
Concen: 8.019 ng
RT: 15.028 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:232 Resp: 10546

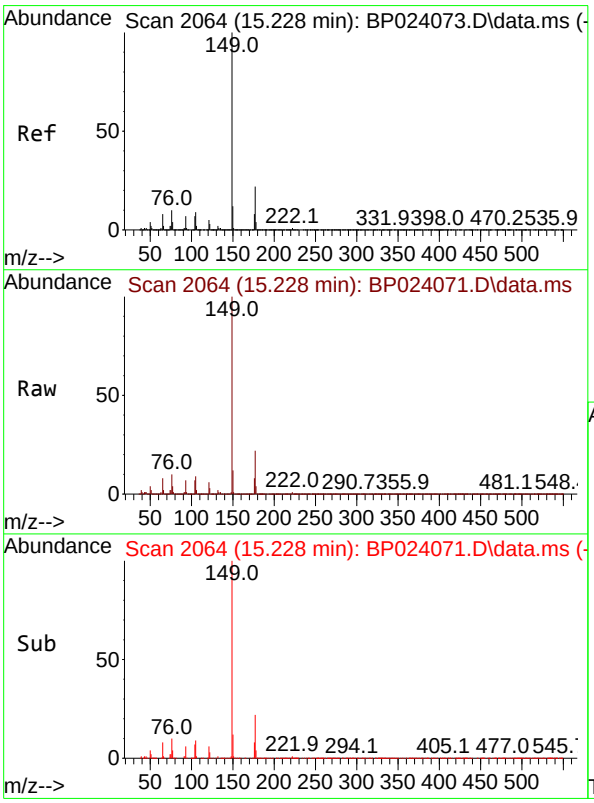
Ion	Ratio	Lower	Upper
232	100		
131	47.1	37.3	55.9
130	2.6	1.9	2.9
166	31.7	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

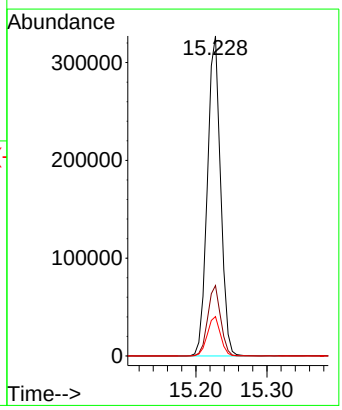
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

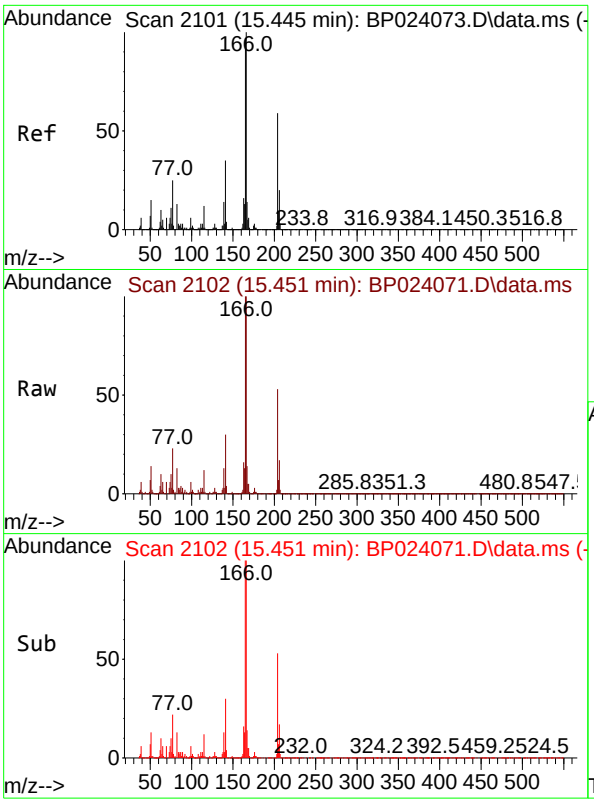


#60
Diethylphthalate
Concen: 8.157 ng
RT: 15.228 min Scan# 2064
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:149 Resp: 422507

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.9	26.9
150	12.3	9.8	14.6

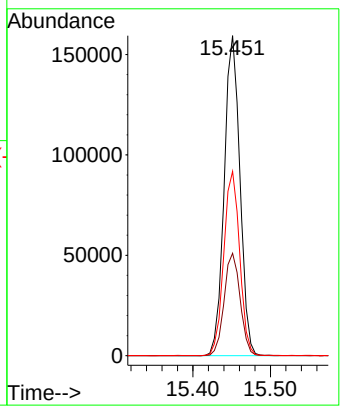




#61
4-Chlorophenyl-phenylether
Concen: 8.730 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:204 Resp: 22474

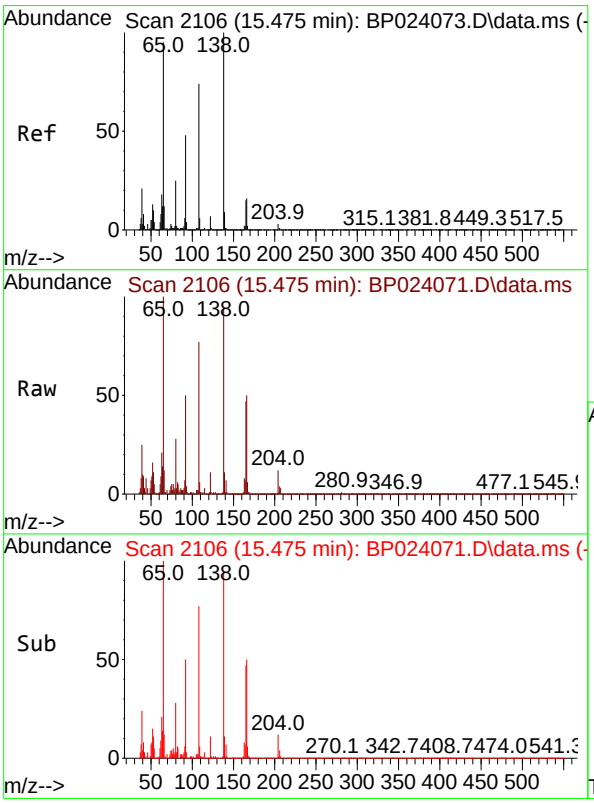
Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.6	39.8
141	57.6	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

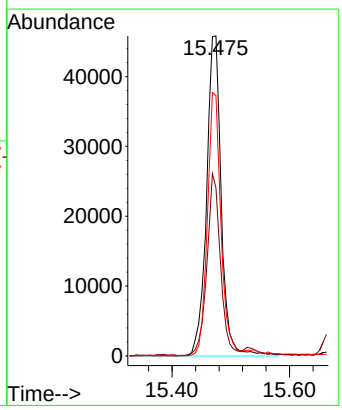
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

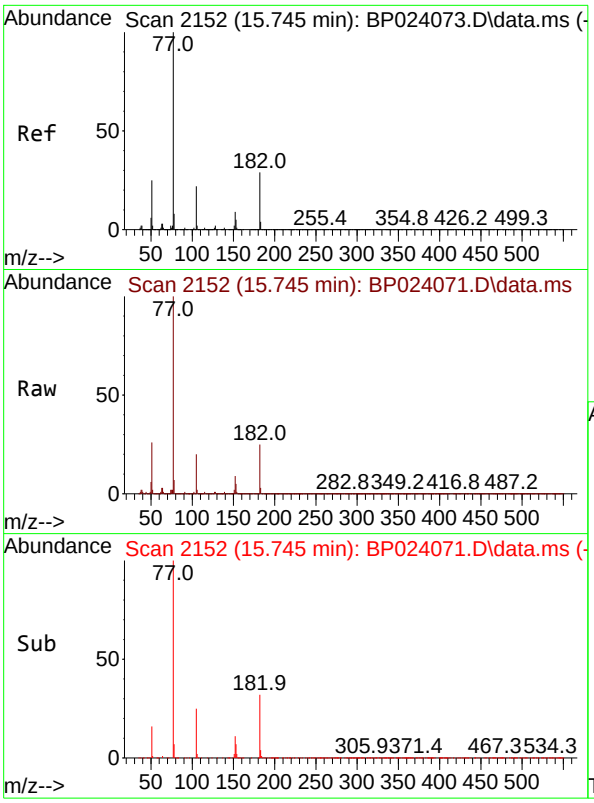


#62
4-Nitroaniline
Concen: 8.836 ng
RT: 15.475 min Scan# 2106
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:138 Resp: 79988

Ion	Ratio	Lower	Upper
138	100		
92	52.6	28.3	68.3
108	81.4	54.0	94.0

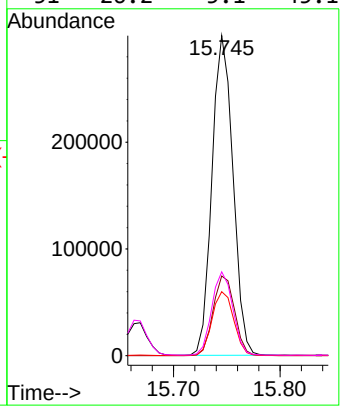




#63
Azobenzene
Concen: 8.441 ng
RT: 15.745 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion: 77 Resp: 40970

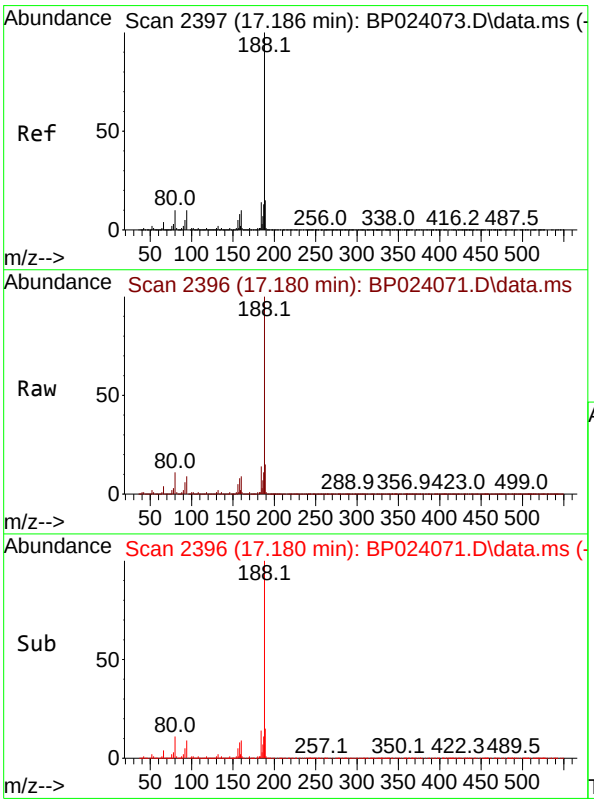
Ion	Ratio	Lower	Upper
77	100		
182	24.9	8.5	48.5
105	20.0	1.8	41.8
51	26.2	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

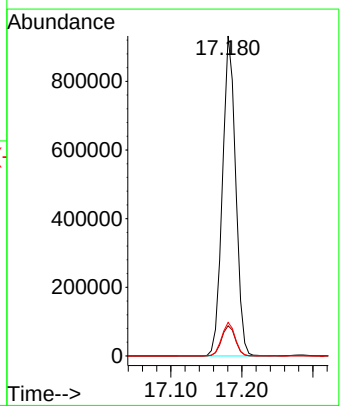
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

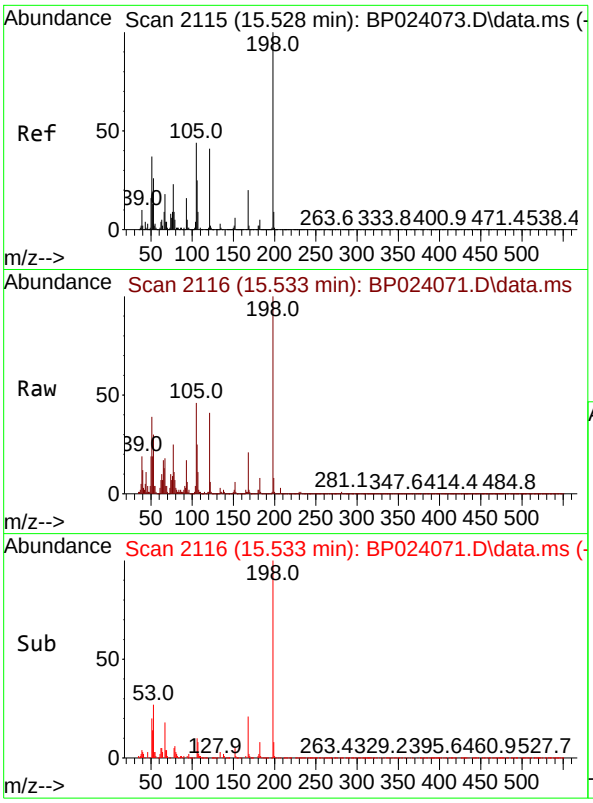


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.180 min Scan# 2396
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:188 Resp: 1201600

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.6	11.4
80	10.5	8.2	12.2

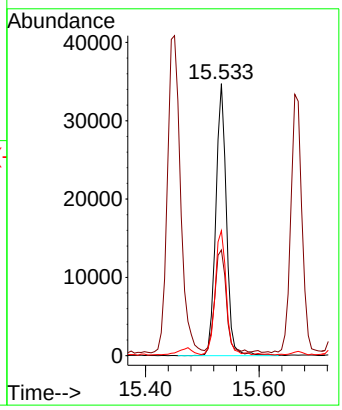




#65
4,6-Dinitro-2-methylphenol
Concen: 11.077 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.005 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:198 Resp: 4471

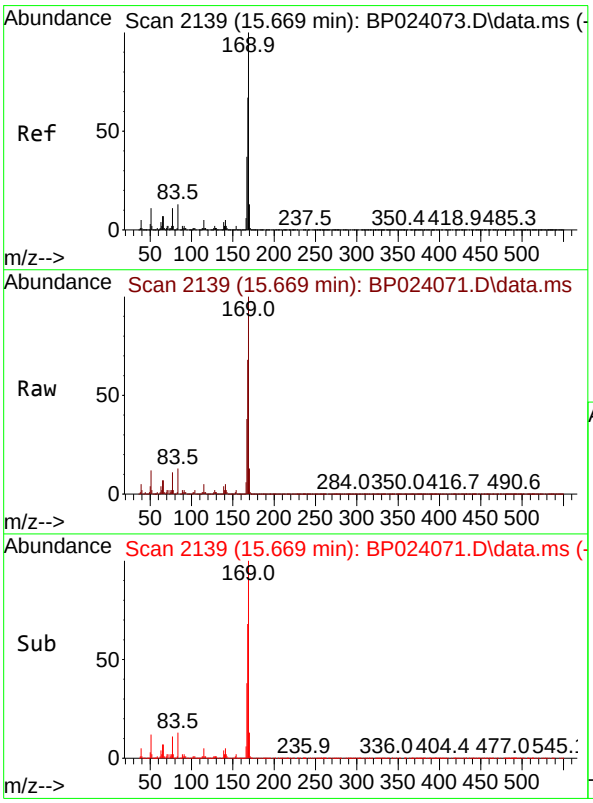
Ion	Ratio	Lower	Upper
198	100		
51	38.9	18.7	58.7
105	45.9	24.7	64.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

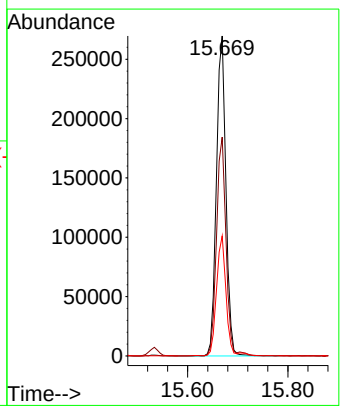
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

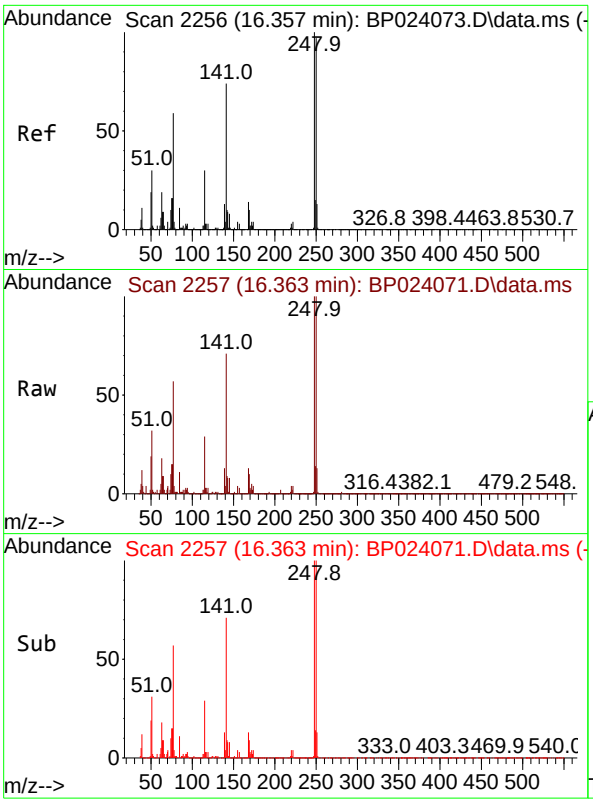


#66
n-Nitrosodiphenylamine
Concen: 9.461 ng
RT: 15.669 min Scan# 2139
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:169 Resp: 354530

Ion	Ratio	Lower	Upper
169	100		
168	68.4	53.6	80.4
167	37.5	29.5	44.3

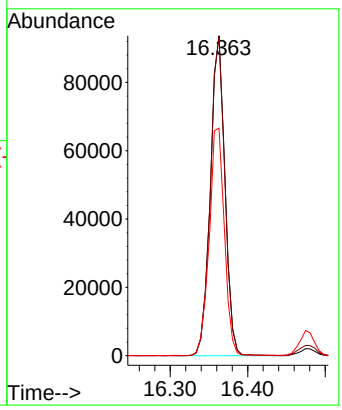




#67
4-Bromophenyl-phenylether
Concen: 9.053 ng
RT: 16.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:248 Resp: 12215

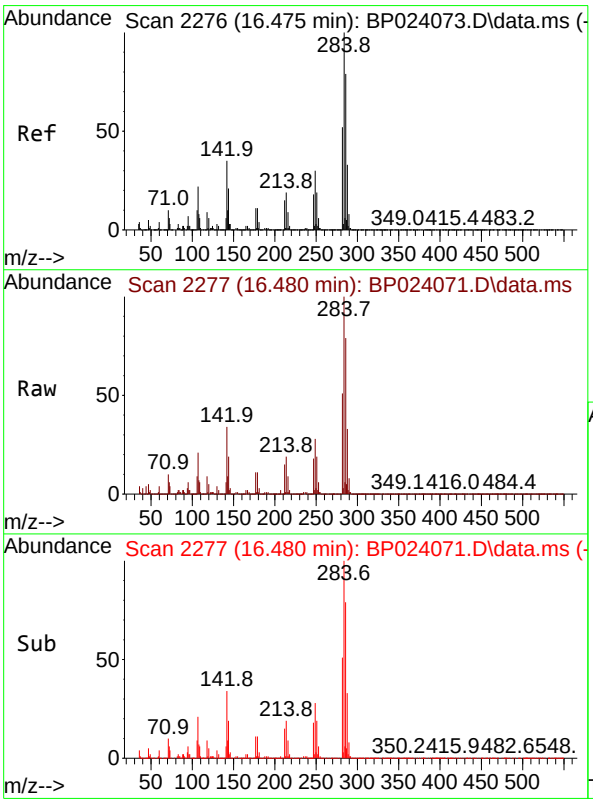
Ion	Ratio	Lower	Upper
248	100		
250	99.7	77.9	116.9
141	71.1	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

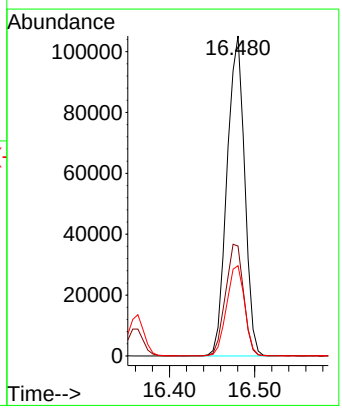
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

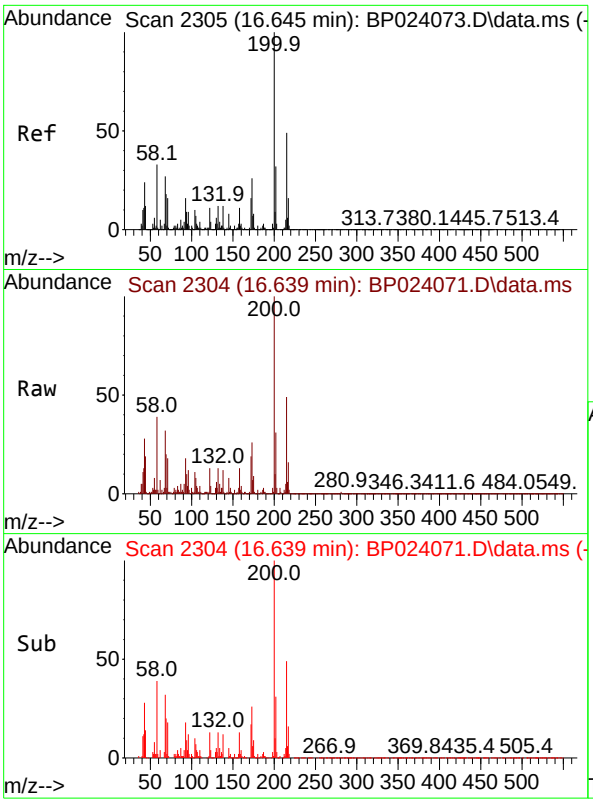


#68
Hexachlorobenzene
Concen: 9.512 ng
RT: 16.480 min Scan# 2277
Delta R.T. 0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:284 Resp: 151020

Ion	Ratio	Lower	Upper
284	100		
142	34.4	27.7	41.5
249	28.2	23.8	35.6

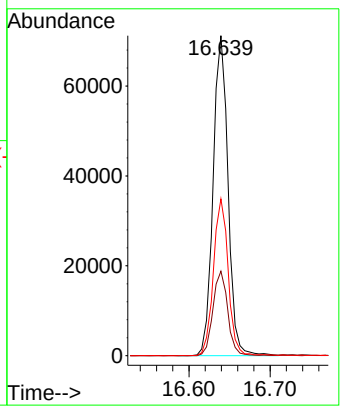




#69
Atrazine
Concen: 9.456 ng
RT: 16.639 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:200 Resp: 9092

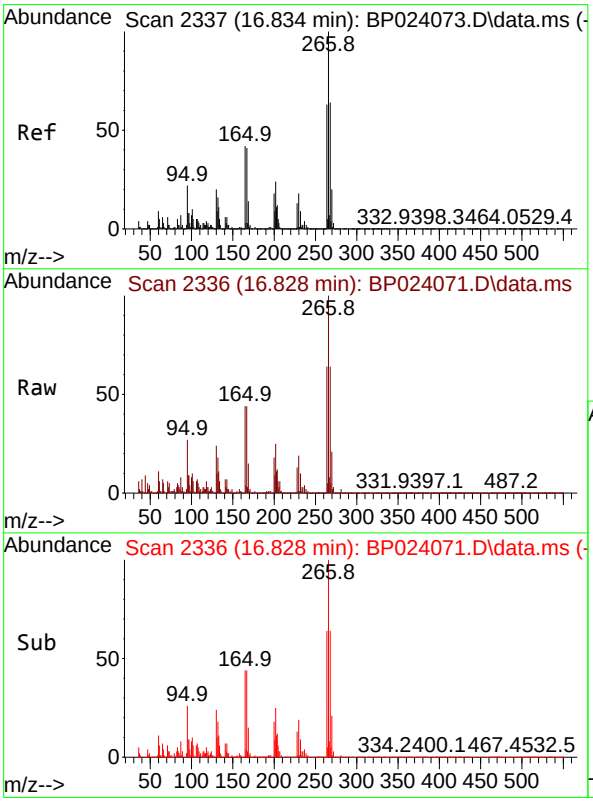
Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.7	45.7
215	49.0	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

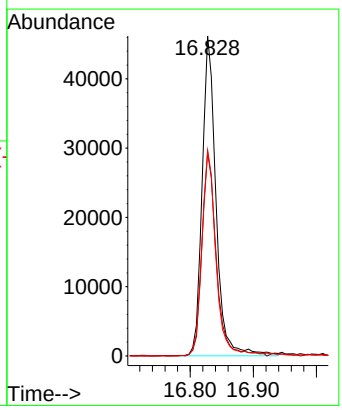
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

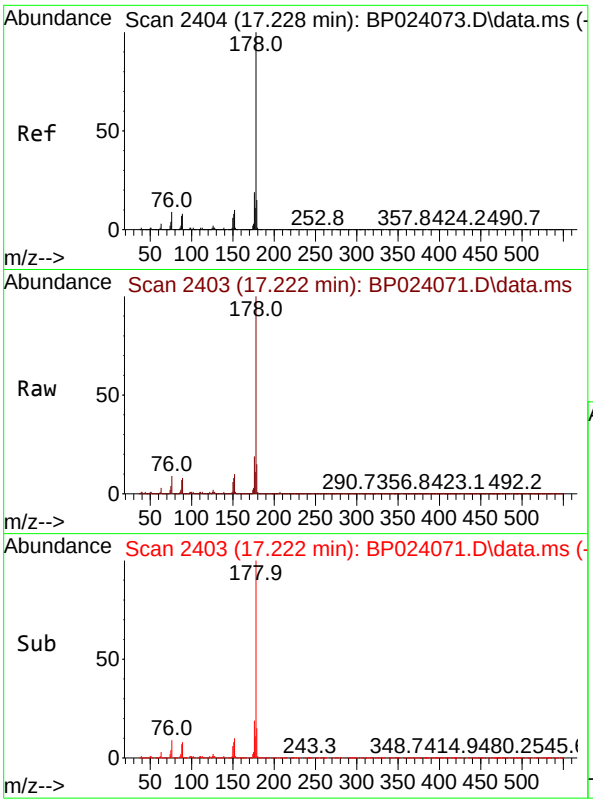


#70
Pentachlorophenol
Concen: 6.840 ng
RT: 16.828 min Scan# 2336
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:266 Resp: 70531

Ion	Ratio	Lower	Upper
266	100		
268	68.4	51.3	76.9
264	64.3	50.5	75.7

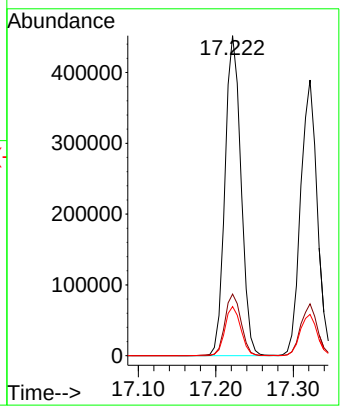




#71
Phenanthrene
Concen: 9.567 ng
RT: 17.222 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:178 Resp: 64809(

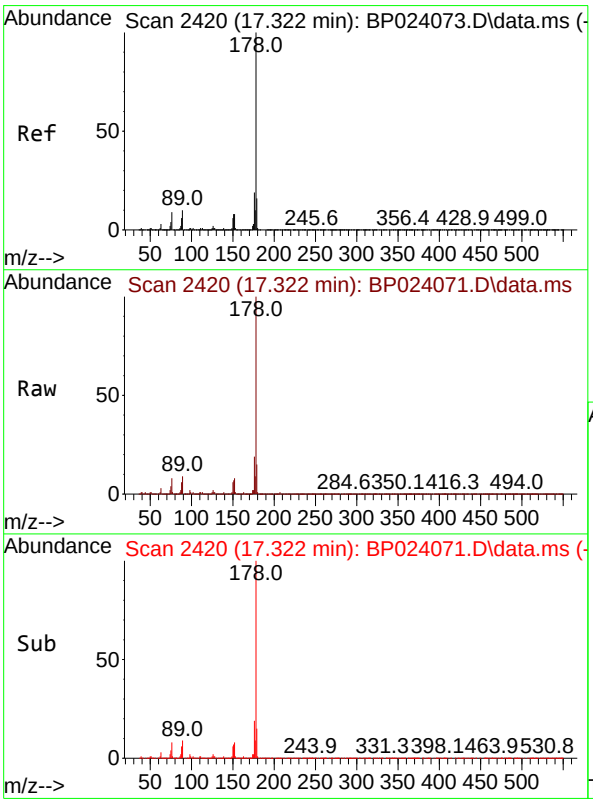
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.4	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

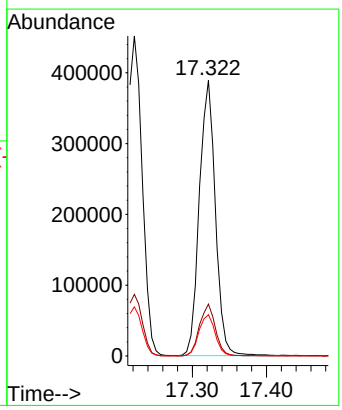
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

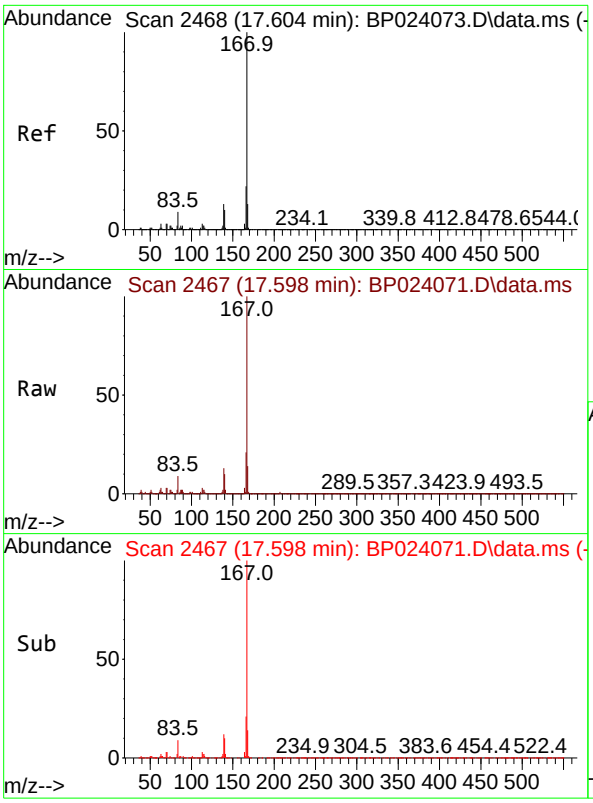


#72
Anthracene
Concen: 9.004 ng
RT: 17.322 min Scan# 2420
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:178 Resp: 584512

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.0	12.6	19.0

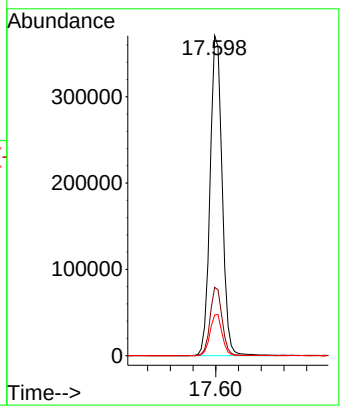




#73
Carbazole
Concen: 8.791 ng
RT: 17.598 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:167 Resp: 54374

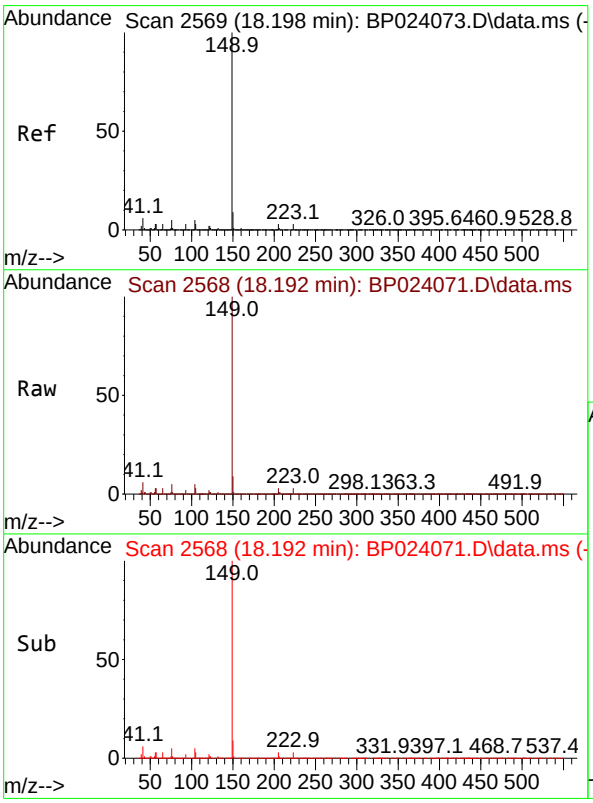
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.3	25.9
139	12.8	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

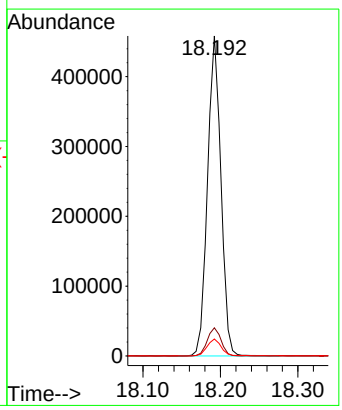
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

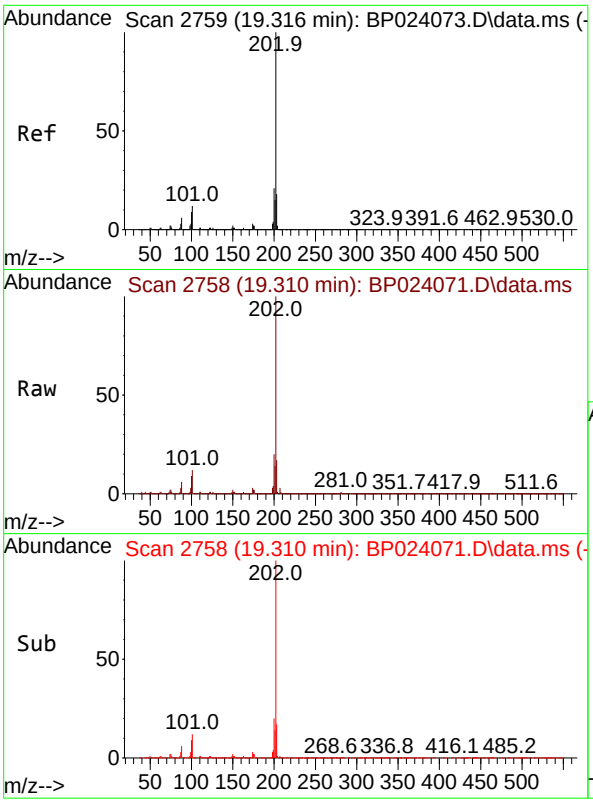


#74
Di-n-butylphthalate
Concen: 7.603 ng
RT: 18.192 min Scan# 2568
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:149 Resp: 548733

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.4	11.2
104	5.3	4.2	6.2





#75
Fluoranthene
Concen: 9.460 ng
RT: 19.310 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

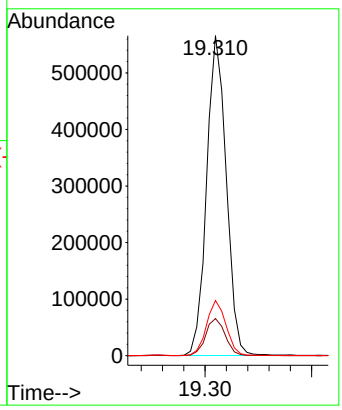
Tgt Ion:202 Resp: 72484

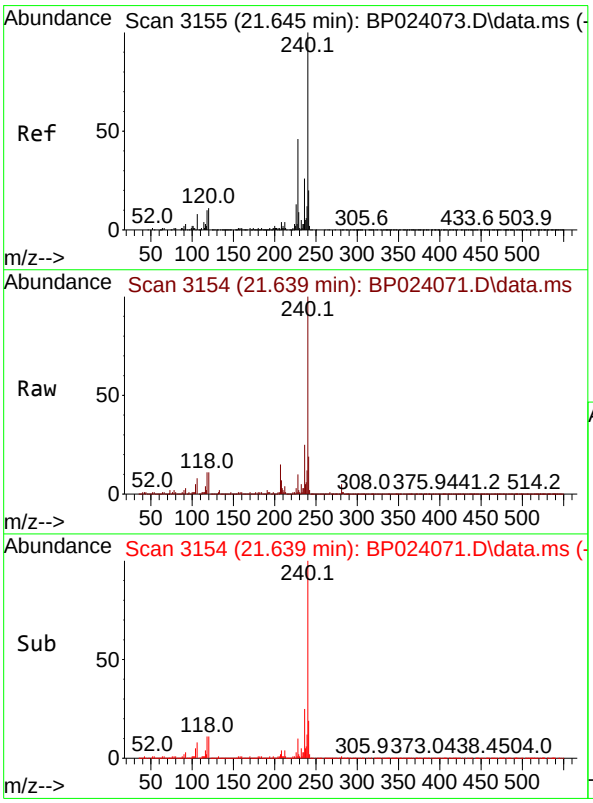
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.9
203	17.3	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

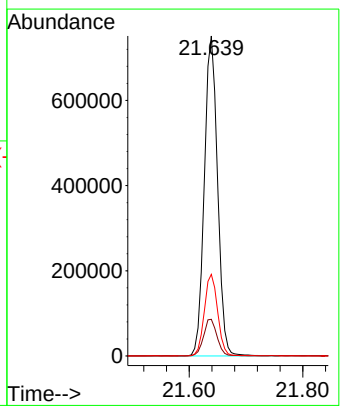


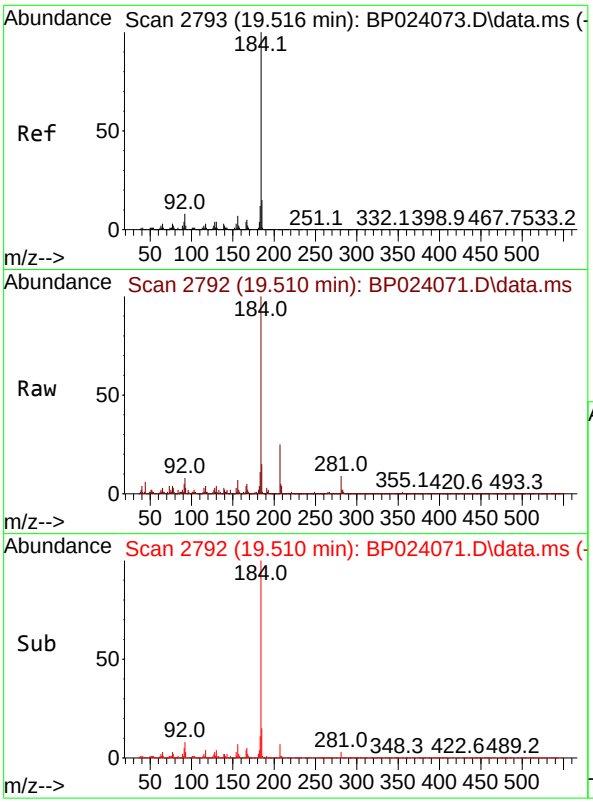


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:240 Resp: 1210021

Ion	Ratio	Lower	Upper
240	100		
120	11.5	8.9	13.3
236	25.5	20.7	31.1

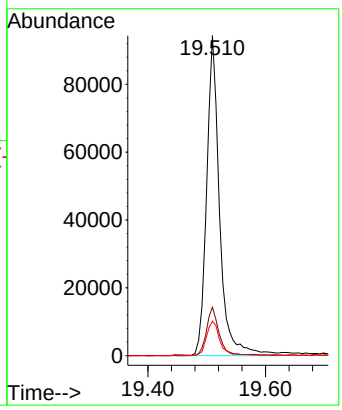




#77
Benzidine
Concen: 9.764 ng
RT: 19.510 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:184 Resp: 14396

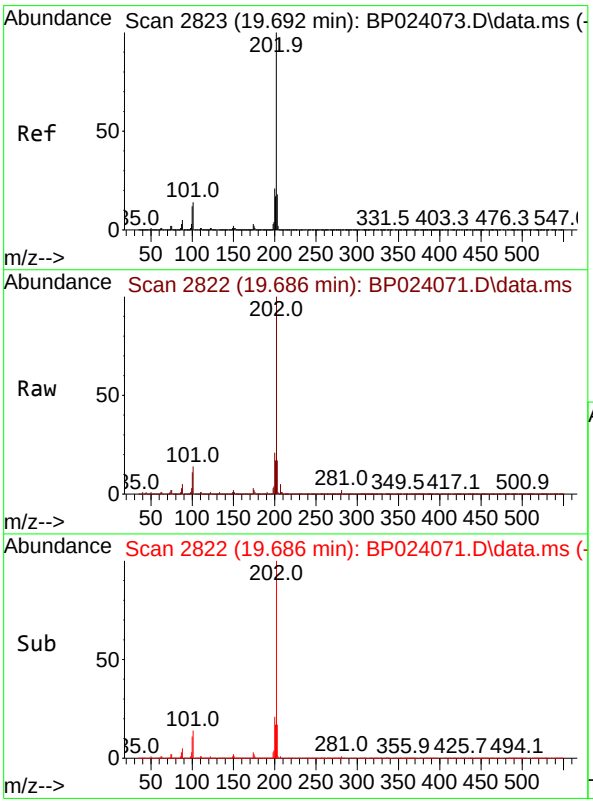
Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.8	17.8
183	10.8	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

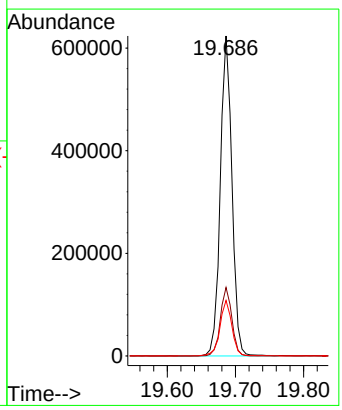
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

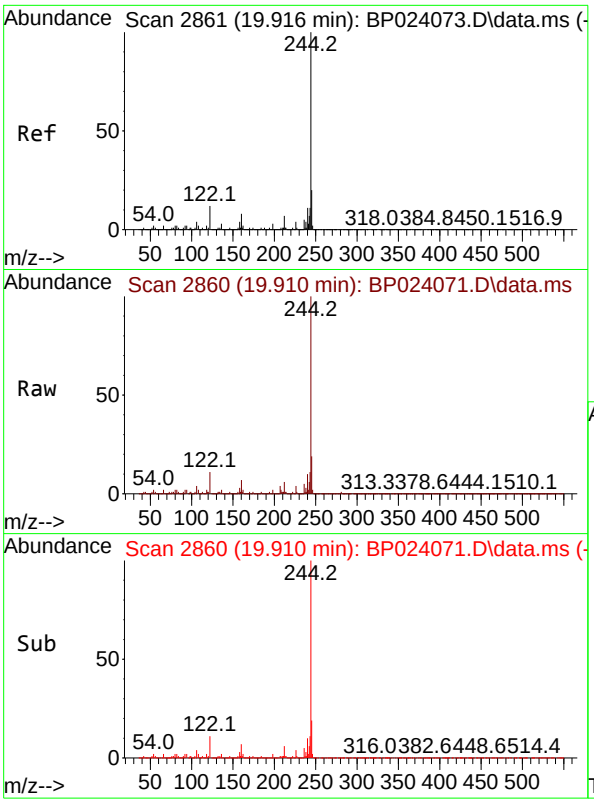


#78
Pyrene
Concen: 9.651 ng
RT: 19.686 min Scan# 2822
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:202 Resp: 741768

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	17.3	14.4	21.6

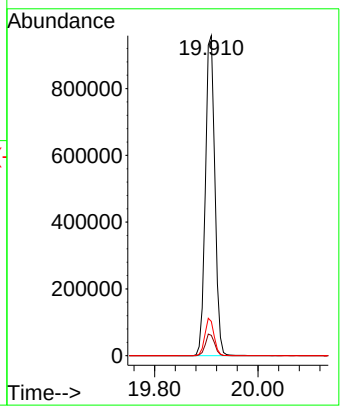




#79
Terphenyl-d14
Concen: 19.891 ng
RT: 19.910 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:244 Resp: 121633

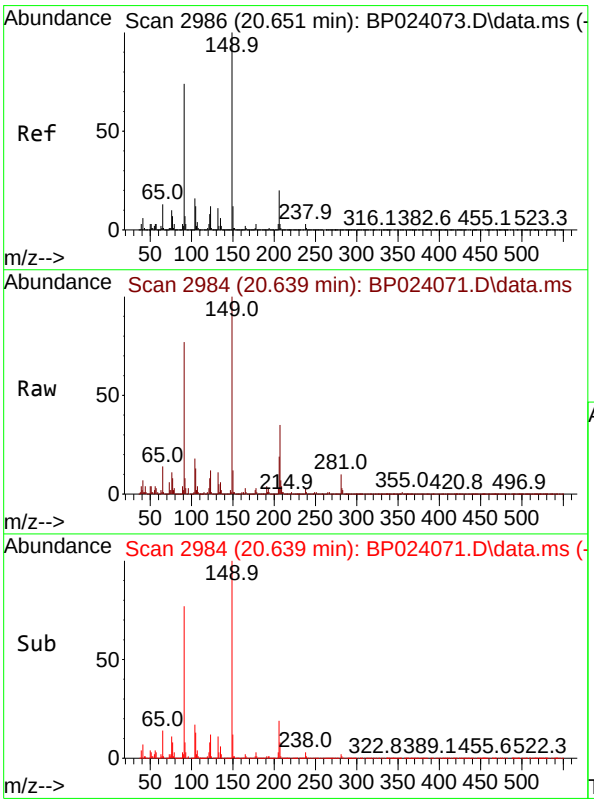
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.9	8.9
122	10.7	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

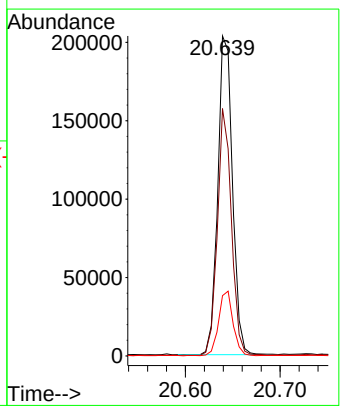
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

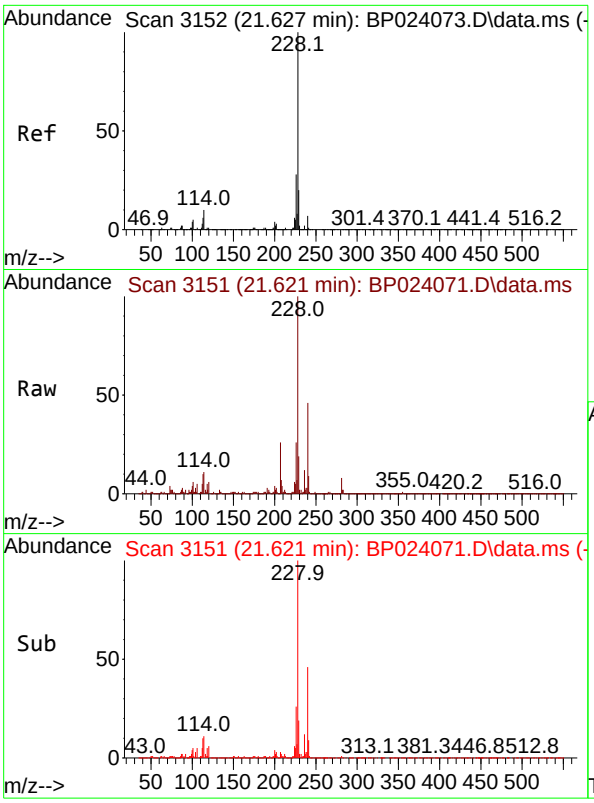


#80
Butylbenzylphthalate
Concen: 7.457 ng
RT: 20.639 min Scan# 2984
Delta R.T. -0.012 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:149 Resp: 219635

Ion	Ratio	Lower	Upper
149	100		
91	77.3	59.4	89.0
206	18.8	16.2	24.2

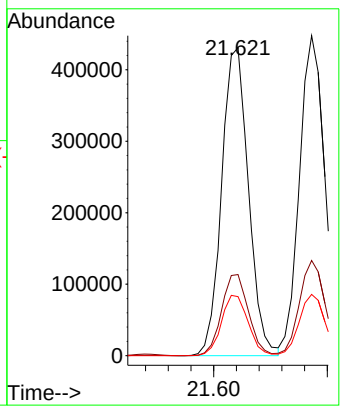




#81
Benzo(a)anthracene
Concen: 9.329 ng
RT: 21.621 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:228 Resp: 70785

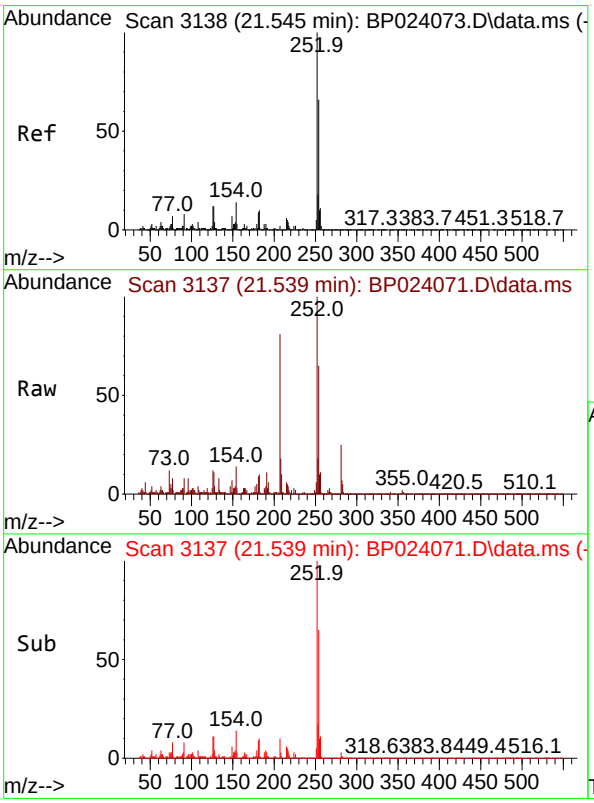
Ion	Ratio	Lower	Upper
228	100		
226	26.3	22.2	33.4
229	19.1	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

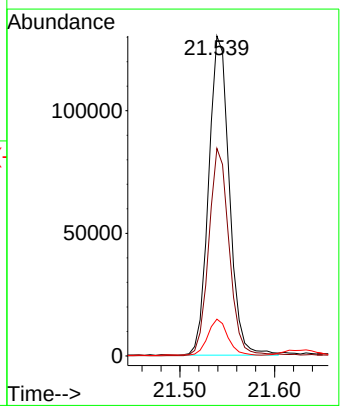
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

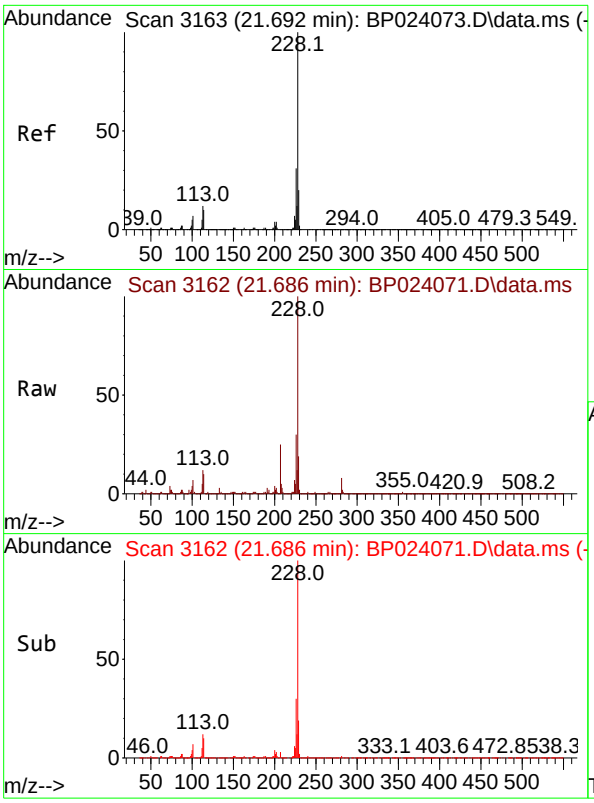


#82
3,3'-Dichlorobenzidine
Concen: 8.299 ng
RT: 21.539 min Scan# 3137
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:252 Resp: 196776

Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.4	78.6
126	11.5	9.6	14.4

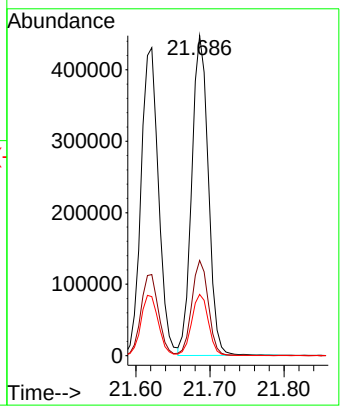




#83
Chrysene
Concen: 9.487 ng
RT: 21.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:228 Resp: 69408

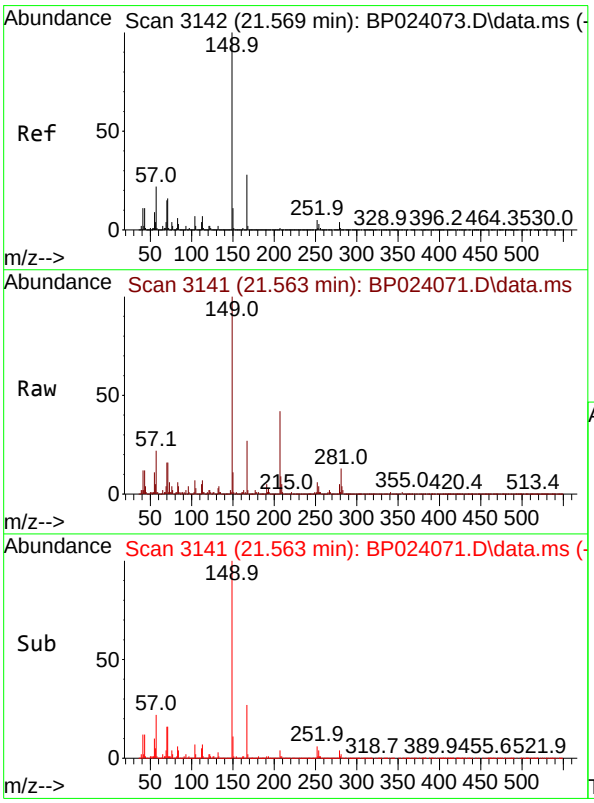
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.5	36.7
229	19.1	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

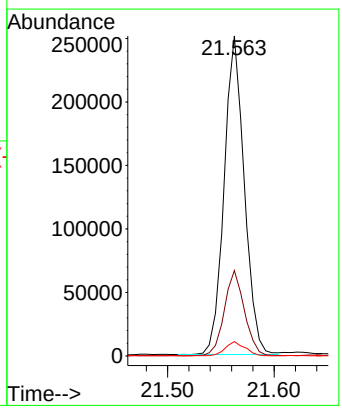
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

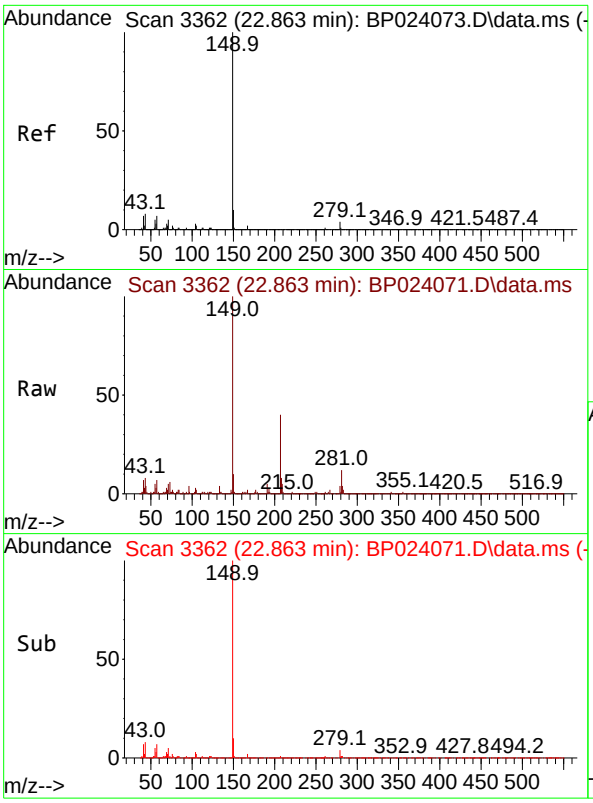


#84
Bis(2-ethylhexyl)phthalate
Concen: 7.378 ng
RT: 21.563 min Scan# 3141
Delta R.T. -0.006 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:149 Resp: 329534

Ion	Ratio	Lower	Upper
149	100		
167	26.7	22.2	33.2
279	4.5	3.6	5.4

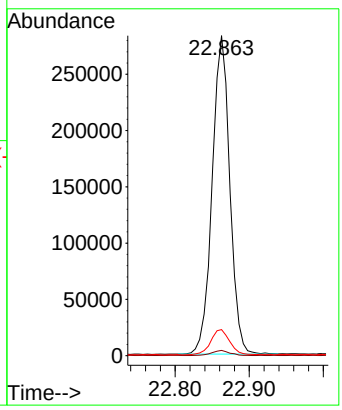




#85
Di-n-octyl phthalate
Concen: 6.554 ng
RT: 22.863 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:149 Resp: 46786

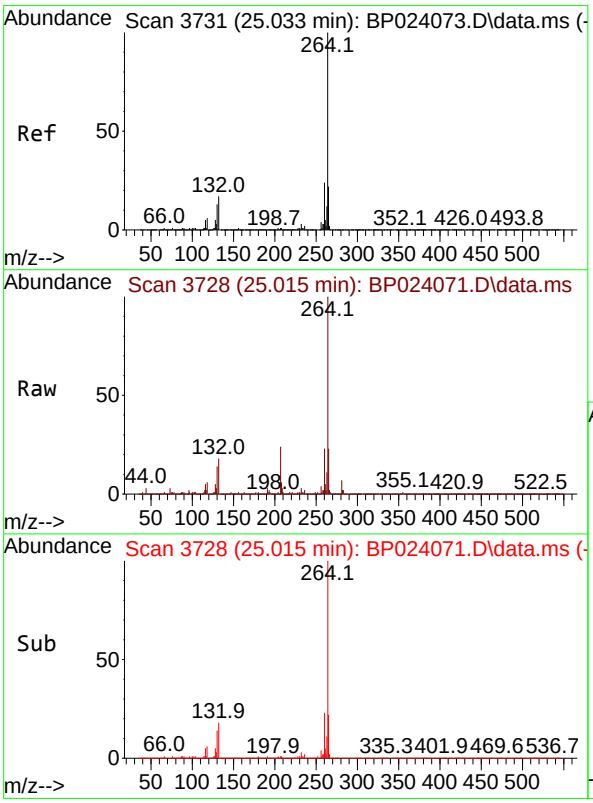
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.8	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

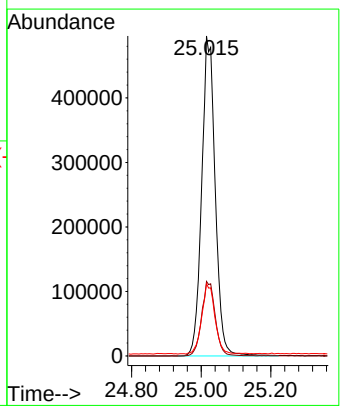
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

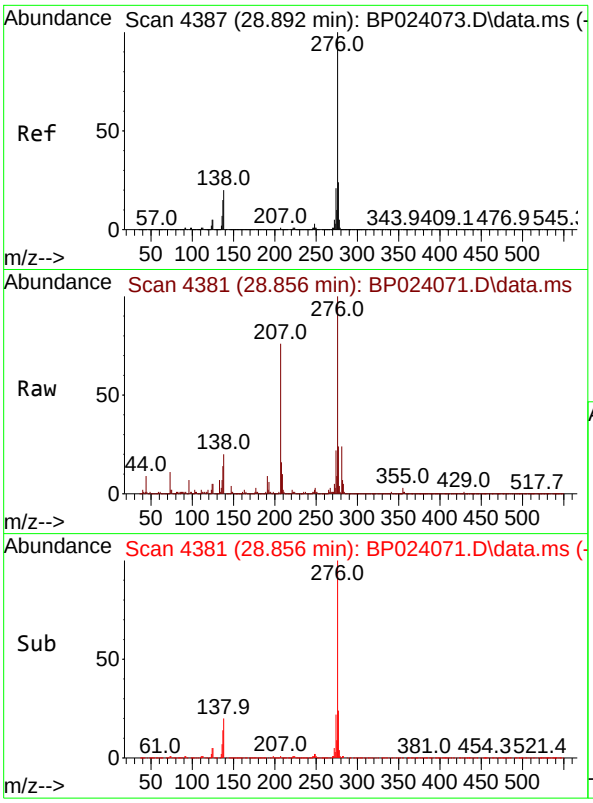


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.015 min Scan# 3728
Delta R.T. -0.018 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:264 Resp: 1337995

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.0	28.6
265	22.6	17.8	26.8

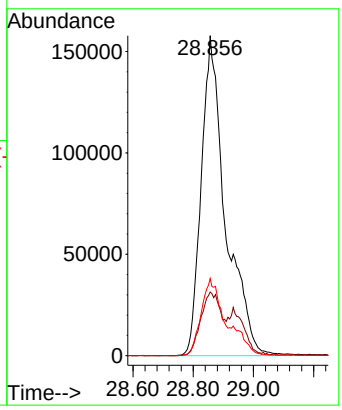




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.284 ng m
RT: 28.856 min Scan# 4
Delta R.T. -0.035 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:276 Resp: 88410

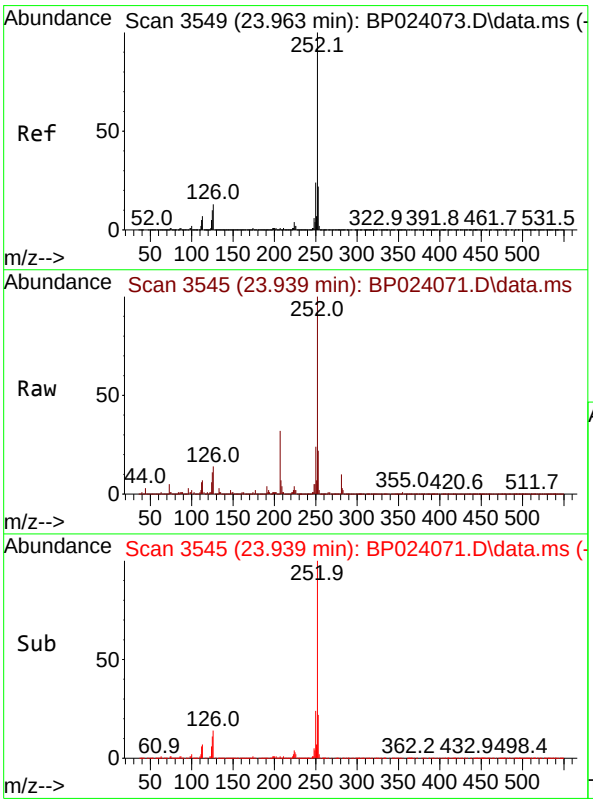
Ion	Ratio	Lower	Upper
276	100		
138	16.9	14.2	21.4
277	20.4	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

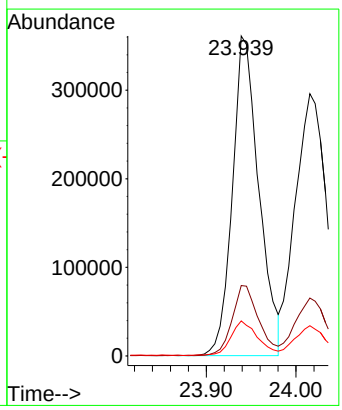
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

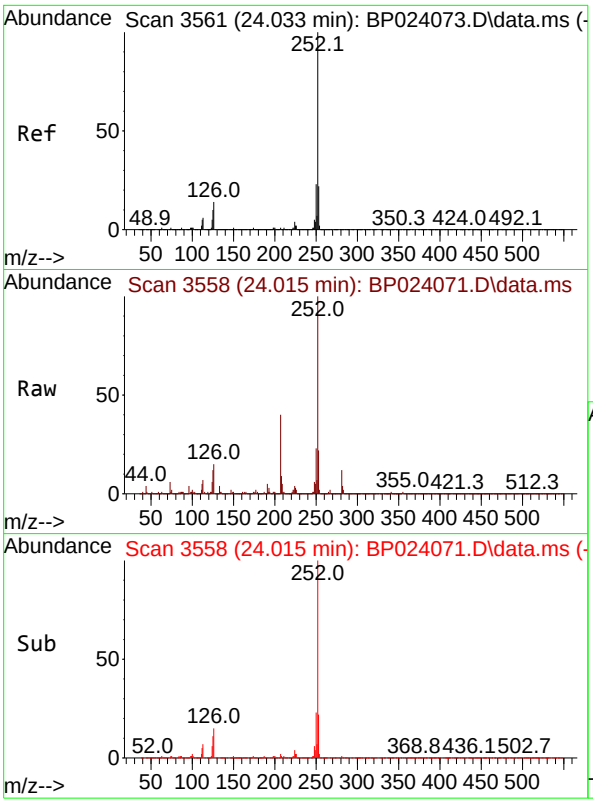


#88
Benzo(b)fluoranthene
Concen: 8.727 ng
RT: 23.939 min Scan# 3545
Delta R.T. -0.024 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:252 Resp: 741531

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	11.0	8.4	12.6

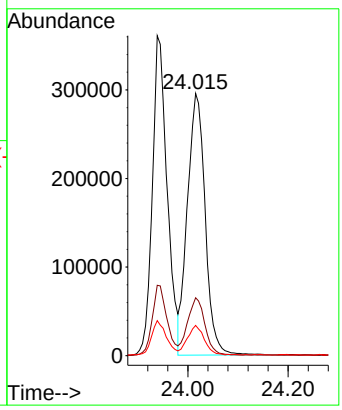




#89
Benzo(k)fluoranthene
Concen: 8.790 ng
RT: 24.015 min Scan# 3
Delta R.T. -0.018 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:252 Resp: 72692

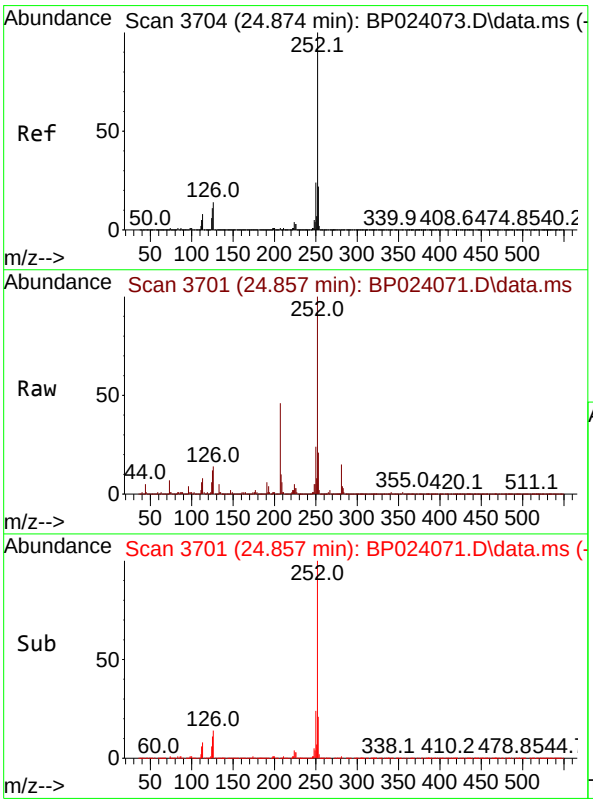
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	11.6	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

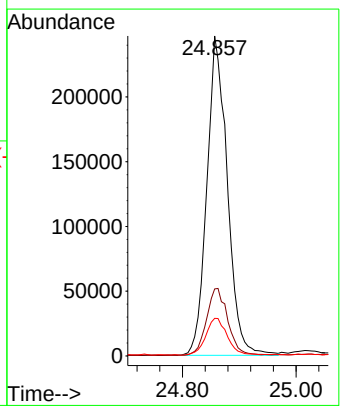
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

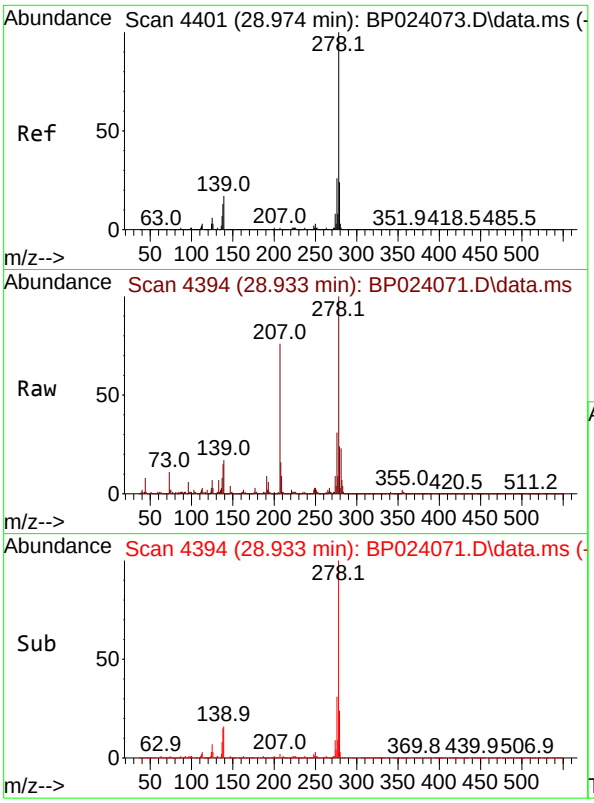


#90
Benzo(a)pyrene
Concen: 8.552 ng
RT: 24.857 min Scan# 3701
Delta R.T. -0.018 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:252 Resp: 616631

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.6	26.4
125	11.7	8.8	13.2

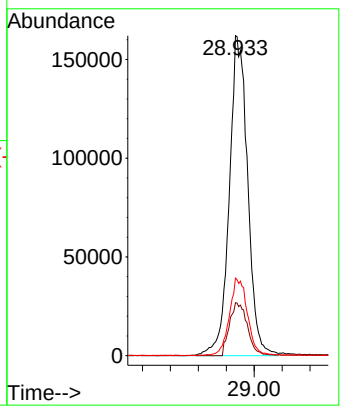




#91
Dibenzo(a,h)anthracene
Concen: 9.246 ng
RT: 28.933 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:278 Resp: 74001

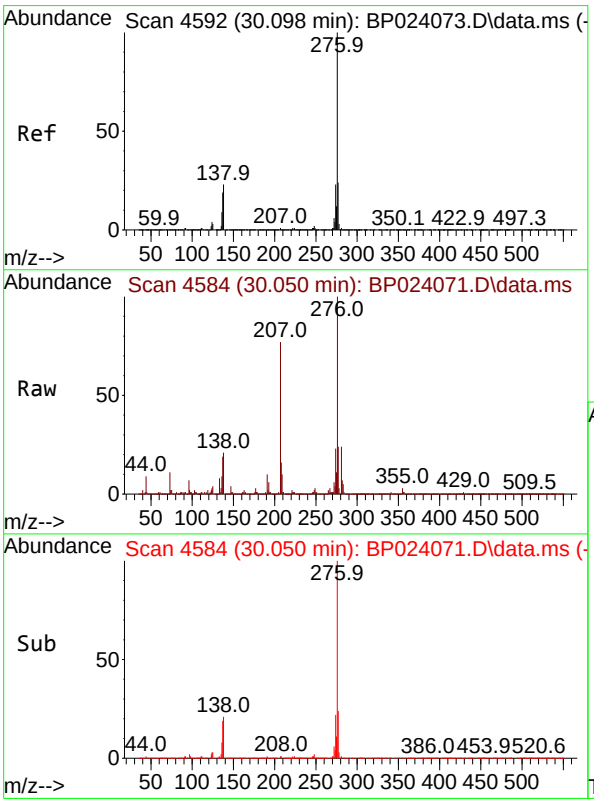
Ion	Ratio	Lower	Upper
278	100		
139	16.5	13.4	20.0
279	24.3	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

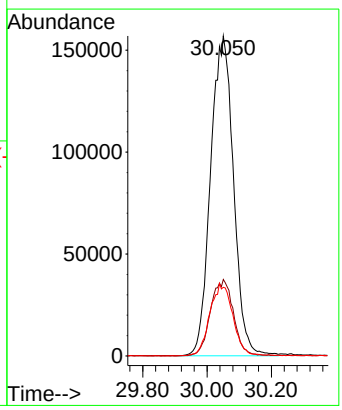
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025



#92
Benzo(g,h,i)perylene
Concen: 9.557 ng
RT: 30.050 min Scan# 4584
Delta R.T. -0.047 min
Lab File: BP024071.D
Acq: 17 Feb 2025 12:49

Tgt Ion:276 Resp: 776170

Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.9	28.3
138	21.5	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024072.D
Acq On : 17 Feb 2025 13:31
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Feb 18 02:02:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.757	152	393351	20.000	ng		0.00
21) Naphthalene-d8	10.534	136	1570352	20.000	ng		0.00
39) Acenaphthene-d10	14.392	164	930913	20.000	ng		0.00
64) Phenanthrene-d10	17.186	188	1706072	20.000	ng		0.00
76) Chrysene-d12	21.651	240	1892411	20.000	ng		0.00
86) Perylene-d12	25.045	264	1956299	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1035832	41.090	ng		0.00
7) Phenol-d6	6.940	99	1346190	41.549	ng		0.00
23) Nitrobenzene-d5	8.904	82	1143477	40.624	ng		0.00
42) 2,4,6-Tribromophenol	15.904	330	447043	39.205	ng		0.00
45) 2-Fluorobiphenyl	13.004	172	2749952	41.297	ng		0.00
79) Terphenyl-d14	19.910	244	3960879	41.416	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.311	88	200498	20.275	ng		100
3) Pyridine	3.711	79	519561	20.187	ng		98
4) n-Nitrosodimethylamine	3.616	42	187617	20.572	ng		97
6) Aniline	7.093	93	618151	20.833	ng		99
8) 2-Chlorophenol	7.328	128	541914	20.310	ng		98
9) Benzaldehyde	6.910	77	346913	23.452	ng		99
10) Phenol	6.969	94	677270	20.787	ng		99
11) bis(2-Chloroethyl)ether	7.187	93	526550	20.519	ng		99
12) 1,3-Dichlorobenzene	7.652	146	594730	20.289	ng		99
13) 1,4-Dichlorobenzene	7.793	146	604858	20.404	ng		99
14) 1,2-Dichlorobenzene	8.110	146	585148	20.568	ng		98
15) Benzyl Alcohol	7.999	79	405612	20.452	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.287	45	526749	21.145	ng		98
17) 2-Methylphenol	8.204	107	410347	20.668	ng		98
18) Hexachloroethane	8.834	117	218664	20.482	ng		97
19) n-Nitroso-di-n-propyla...	8.557	70	378883	21.749	ng		99
20) 3+4-Methylphenols	8.528	107	551864	20.432	ng		99
22) Acetophenone	8.575	105	820553	20.334	ng	#	99
24) Nitrobenzene	8.946	77	567224	20.476	ng		99
25) Isophorone	9.469	82	931615	20.239	ng		98
26) 2-Nitrophenol	9.651	139	243796	19.102	ng		96
27) 2,4-Dimethylphenol	9.722	122	334688	19.978	ng		100
28) bis(2-Chloroethoxy)met...	9.946	93	679083	20.365	ng		99
29) 2,4-Dichlorophenol	10.193	162	456514	19.967	ng		100
30) 1,2,4-Trichlorobenzene	10.404	180	526654	20.105	ng		98
31) Naphthalene	10.587	128	1726557	20.448	ng		99
32) Benzoic acid	9.828	122	254899	19.727	ng		97
33) 4-Chloroaniline	10.693	127	607673	20.428	ng		98
34) Hexachlorobutadiene	10.875	225	305325	20.124	ng		99
35) Caprolactam	11.475	113	128622	20.337	ng		93
36) 4-Chloro-3-methylphenol	11.828	107	474767	20.200	ng		97
37) 2-Methylnaphthalene	12.198	142	1143934	20.383	ng		99
38) 1-Methylnaphthalene	12.416	142	1109475	20.321	ng		100
40) 1,2,4,5-Tetrachloroben...	12.569	216	563196	19.690	ng		99
41) Hexachlorocyclopentadiene	12.551	237	205846	19.340	ng		99
43) 2,4,6-Trichlorophenol	12.816	196	345162	19.787	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024072.D
Acq On : 17 Feb 2025 13:31
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Feb 18 02:02:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

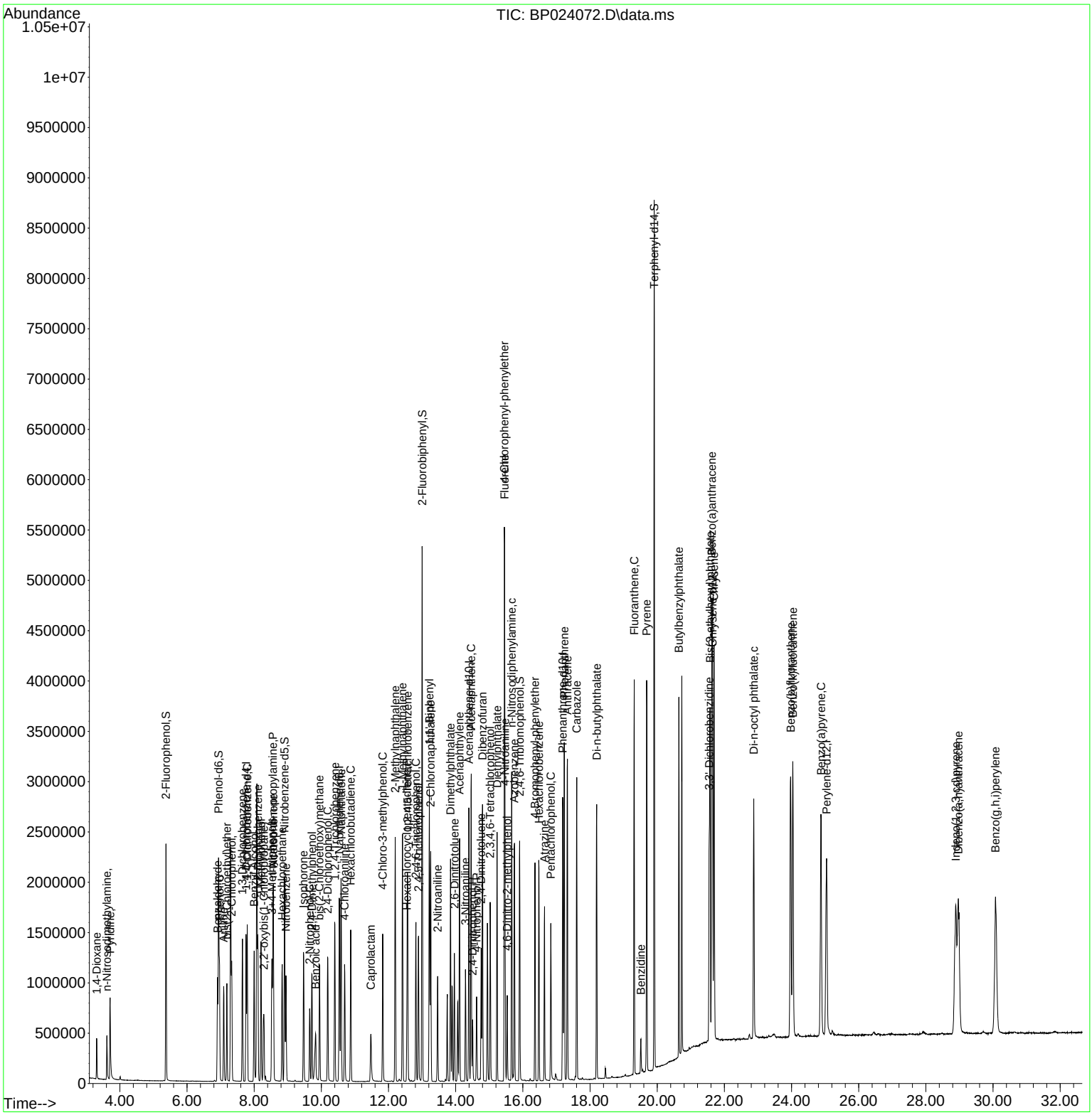
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.892	196	383315	20.093	ng		100
46) 1,1'-Biphenyl	13.216	154	1444899	19.974	ng		99
47) 2-Chloronaphthalene	13.257	162	1103499	20.180	ng		99
48) 2-Nitroaniline	13.463	65	258044	19.977	ng		99
49) Acenaphthylene	14.116	152	1632474	20.262	ng		100
50) Dimethylphthalate	13.845	163	1338599	20.385	ng		99
51) 2,6-Dinitrotoluene	13.963	165	272624	20.381	ng		99
52) Acenaphthene	14.463	154	1048976	20.218	ng		100
53) 3-Nitroaniline	14.292	138	283559	19.866	ng		96
54) 2,4-Dinitrophenol	14.504	184	122329	20.302	ng		97
55) Dibenzofuran	14.798	168	1710130	20.290	ng		99
56) 4-Nitrophenol	14.622	139	232029	18.819	ng		97
57) 2,4-Dinitrotoluene	14.757	165	347384	19.992	ng		91
58) Fluorene	15.457	166	1352679	20.550	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.028	232	328728	19.861	ng		99
60) Diethylphthalate	15.234	149	1339709	20.552	ng		99
61) 4-Chlorophenyl-phenyle...	15.451	204	661448	20.416	ng		98
62) 4-Nitroaniline	15.469	138	299742	19.811	ng		98
63) Azobenzene	15.745	77	1297292	21.238	ng		95
65) 4,6-Dinitro-2-methylph...	15.534	198	176878	20.128	ng		96
66) n-Nitrosodiphenylamine	15.669	169	1089389	20.476	ng		99
67) 4-Bromophenyl-phenylether	16.363	248	384639	20.077	ng		98
68) Hexachlorobenzene	16.481	284	447915	19.869	ng		99
69) Atrazine	16.645	200	298071	21.831	ng		100
70) Pentachlorophenol	16.833	266	271947	18.574	ng		100
71) Phenanthrene	17.233	178	1955736	20.333	ng		100
72) Anthracene	17.328	178	1882122	20.419	ng		99
73) Carbazole	17.604	167	1784273	20.317	ng		100
74) Di-n-butylphthalate	18.198	149	2100553	20.499	ng		99
75) Fluoranthene	19.316	202	2201283	20.233	ng		99
77) Benzidine	19.516	184	225673	9.786	ng		98
78) Pyrene	19.686	202	2285228	19.011	ng		100
80) Butylbenzylphthalate	20.645	149	941827	20.447	ng		95
81) Benzo(a)anthracene	21.627	228	2436640	20.534	ng		99
82) 3,3'-Dichlorobenzidine	21.551	252	737056	19.877	ng		98
83) Chrysene	21.692	228	2318584	20.263	ng		99
84) Bis(2-ethylhexyl)phtha...	21.574	149	1437216	20.576	ng		99
85) Di-n-octyl phthalate	22.874	149	2172948	19.462	ng		99
87) Indeno(1,2,3-cd)pyrene	28.892	276	2755086	19.787	ng	#	94
88) Benzo(b)fluoranthene	23.974	252	2472738	19.904	ng		99
89) Benzo(k)fluoranthene	24.039	252	2439900	20.178	ng		99
90) Benzo(a)pyrene	24.880	252	2089246	19.817	ng		100
91) Dibenzo(a,h)anthracene	28.968	278	2322126	19.844	ng		98
92) Benzo(g,h,i)perylene	30.074	276	2352576	19.812	ng		99

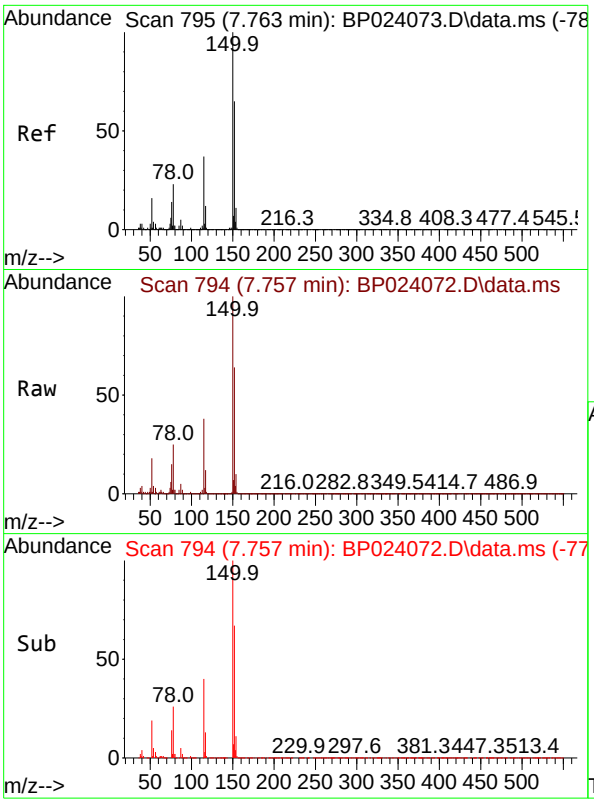
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024072.D
Acq On : 17 Feb 2025 13:31
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Feb 18 02:02:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration



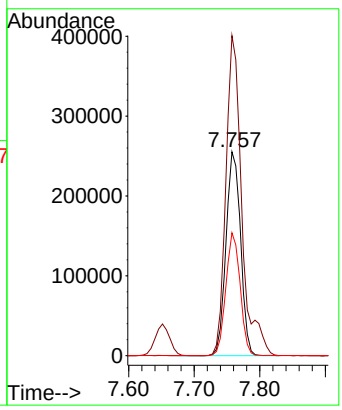


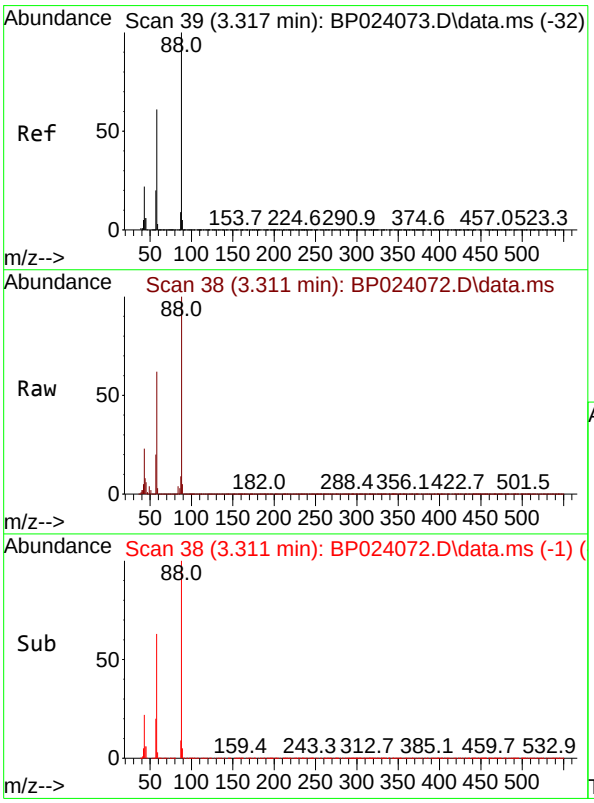
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 393351

Ion	Ratio	Lower	Upper
152	100		
150	157.0	122.4	183.6
115	60.3	45.0	67.6

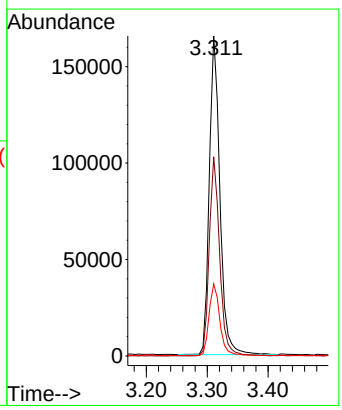


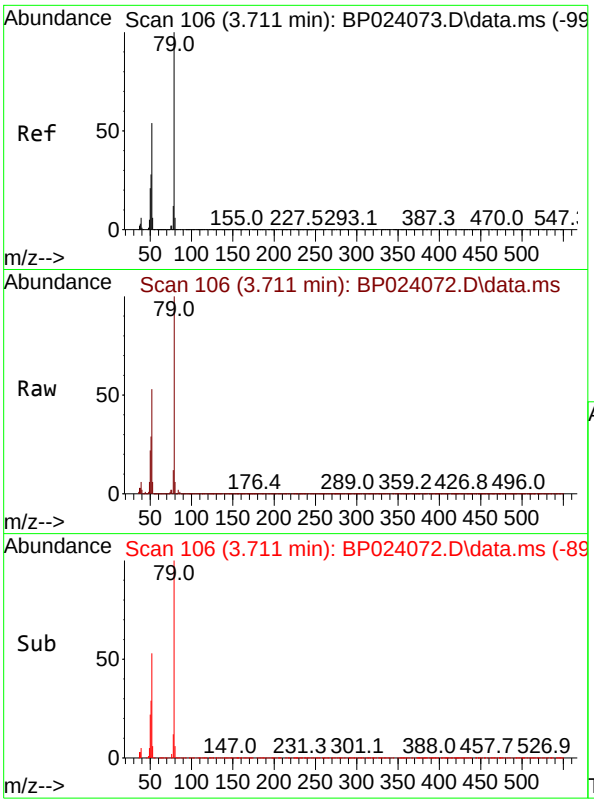


#2
1,4-Dioxane
Concen: 20.275 ng
RT: 3.311 min Scan# 38
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 88 Resp: 200498

Ion	Ratio	Lower	Upper
88	100		
58	61.5	49.1	73.7
43	22.8	18.0	27.0



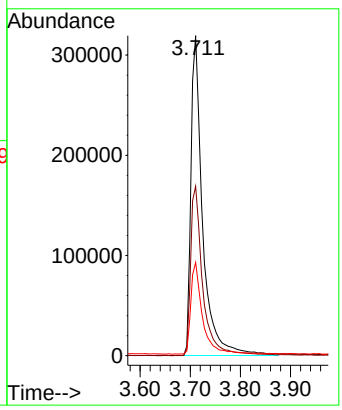


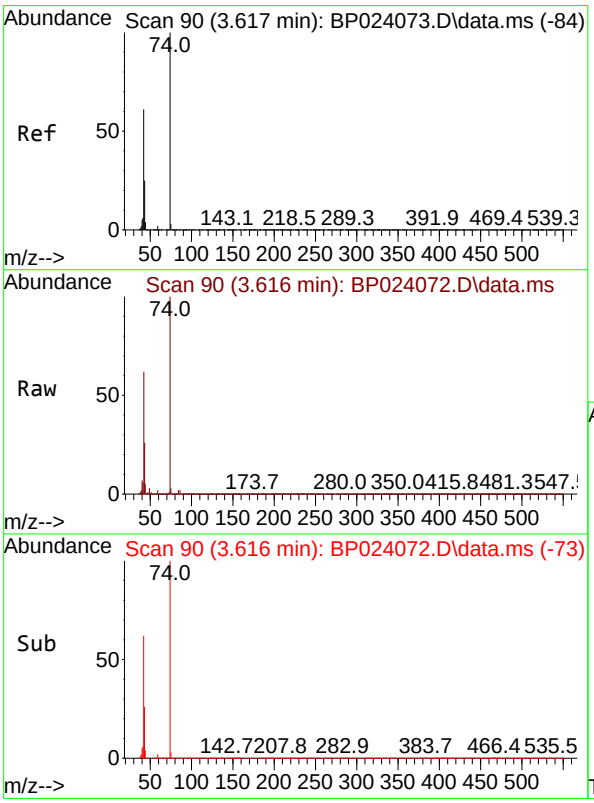
#3
Pyridine
Concen: 20.187 ng
RT: 3.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 519561

Ion	Ratio	Lower	Upper
79	100		
52	52.9	43.5	65.3
51	29.1	22.2	33.4

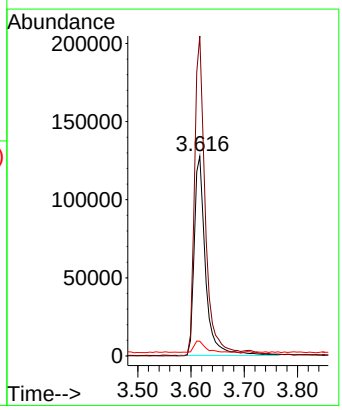


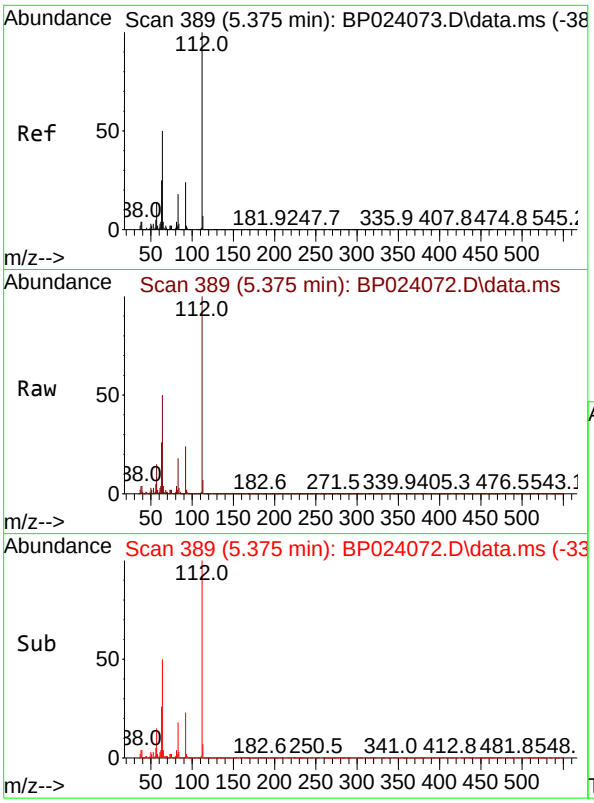


#4
n-Nitrosodimethylamine
Concen: 20.572 ng
RT: 3.616 min Scan# 90
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 42 Resp: 187617

Ion	Ratio	Lower	Upper
42	100		
74	160.3	132.0	198.0
44	7.4	5.3	7.9



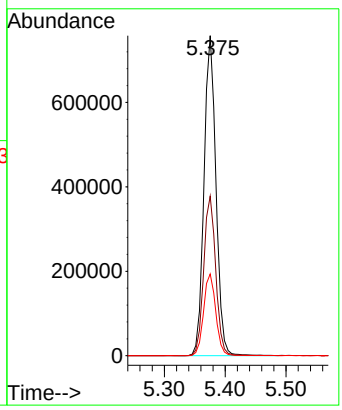


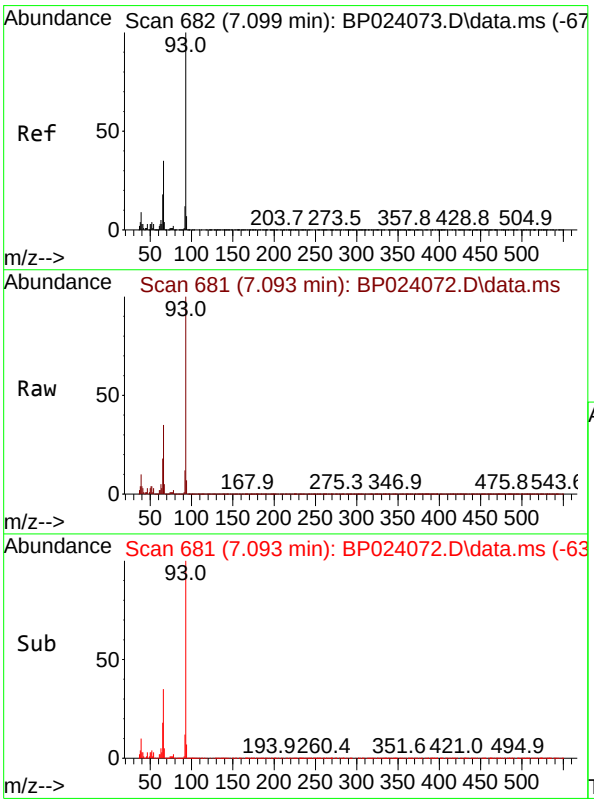
#5
2-Fluorophenol
Concen: 41.090 ng
RT: 5.375 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 1035832

Ion	Ratio	Lower	Upper
112	100		
64	49.8	39.6	59.4
63	25.6	20.3	30.5

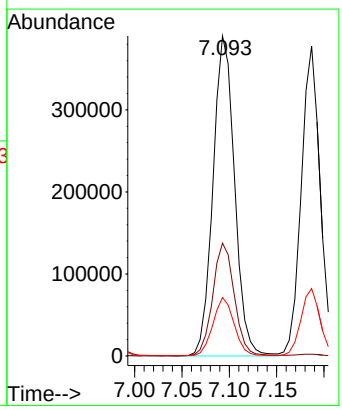


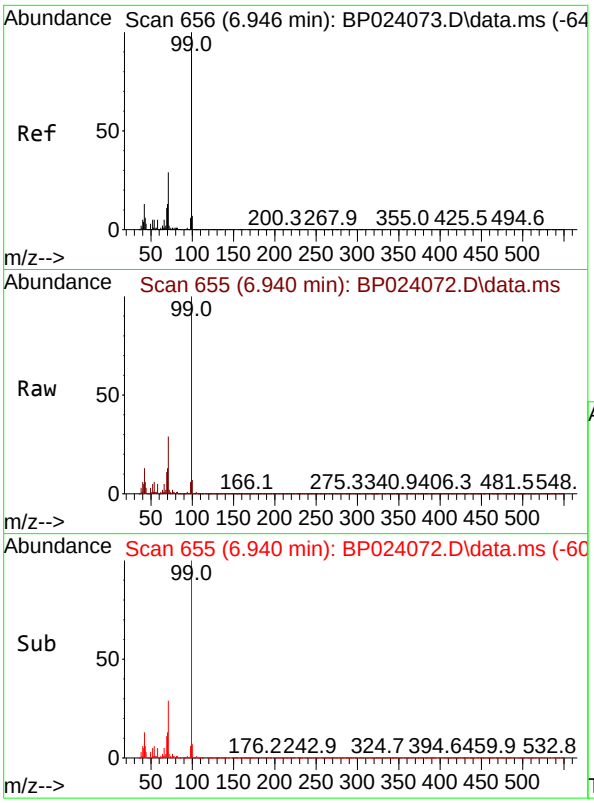


#6
Aniline
Concen: 20.833 ng
RT: 7.093 min Scan# 681
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 93 Resp: 618151

Ion	Ratio	Lower	Upper
93	100		
66	35.2	28.2	42.4
65	18.2	14.1	21.1



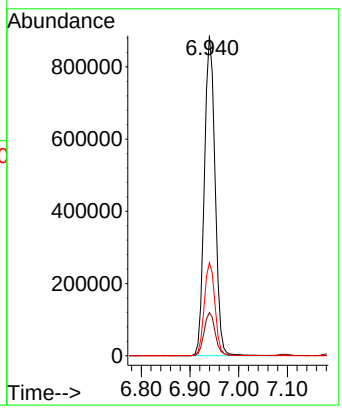


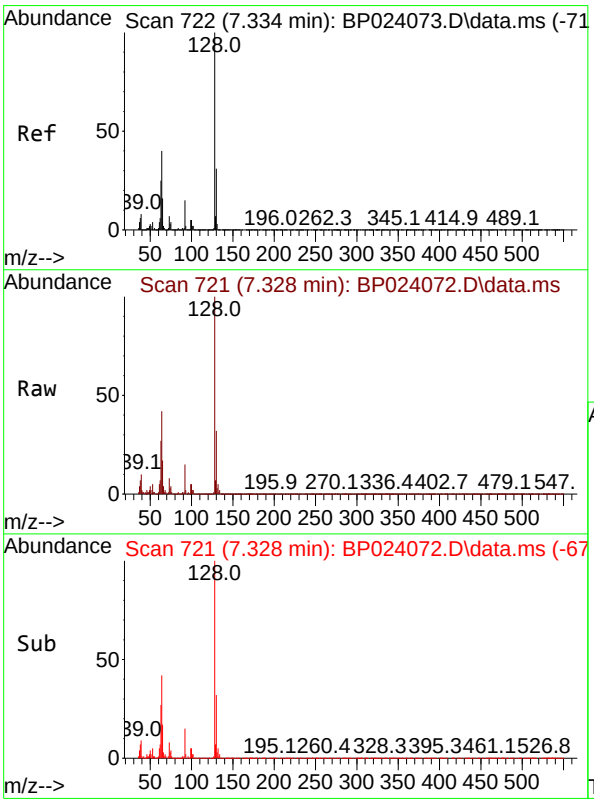
#7
Phenol-d6
Concen: 41.549 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 1346190

Ion	Ratio	Lower	Upper
99	100		
42	13.4	10.3	15.5
71	29.1	22.9	34.3

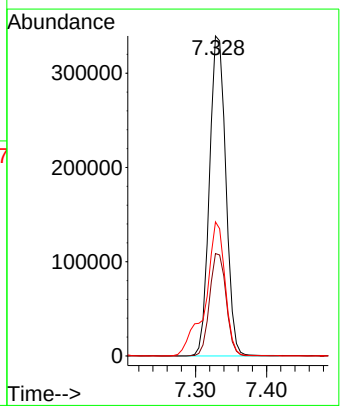


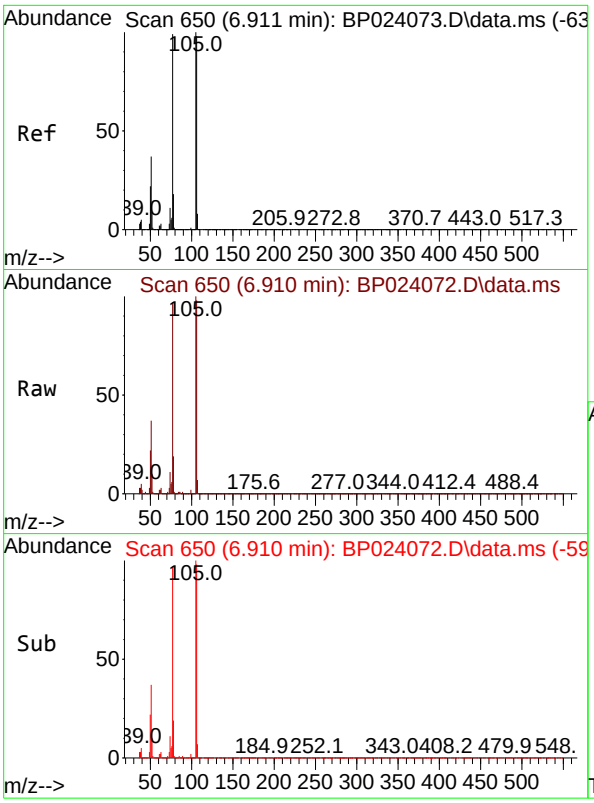


#8
2-Chlorophenol
Concen: 20.310 ng
RT: 7.328 min Scan# 721
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:128 Resp: 541914

Ion	Ratio	Lower	Upper
128	100		
130	32.0	11.5	51.5
64	41.9	19.8	59.8



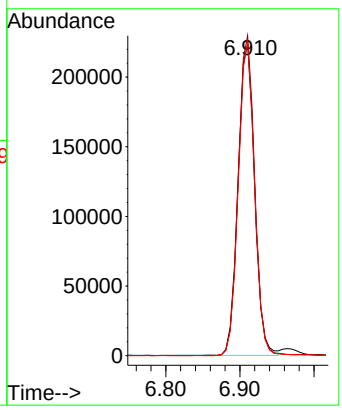


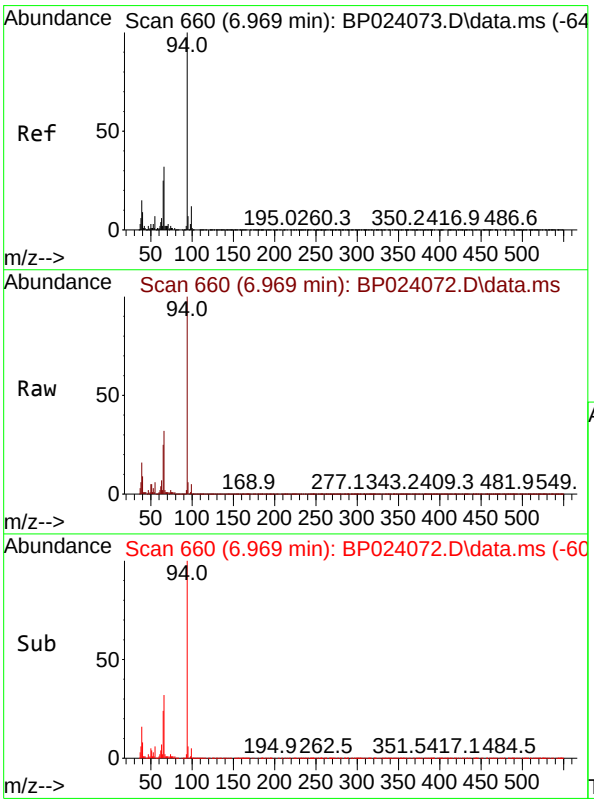
#9
Benzaldehyde
Concen: 23.452 ng
RT: 6.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 346913

Ion	Ratio	Lower	Upper
77	100		
105	102.7	81.4	121.4
106	100.6	79.0	119.0

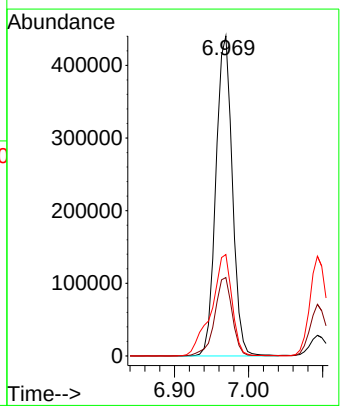


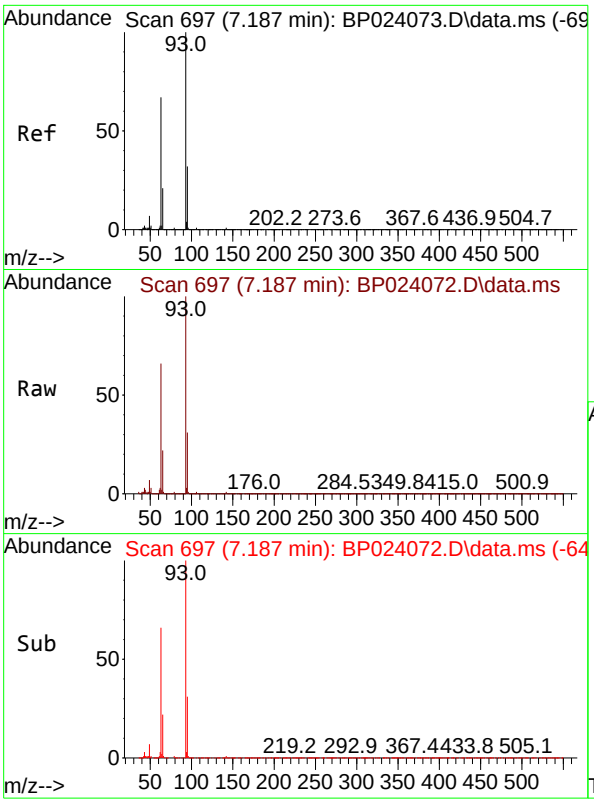


#10
Phenol
Concen: 20.787 ng
RT: 6.969 min Scan# 660
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 94 Resp: 677270

Ion	Ratio	Lower	Upper
94	100		
65	24.5	5.0	45.0
66	31.7	11.6	51.6



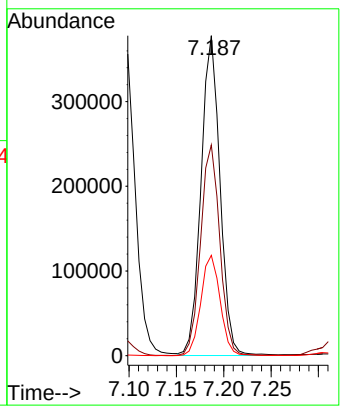


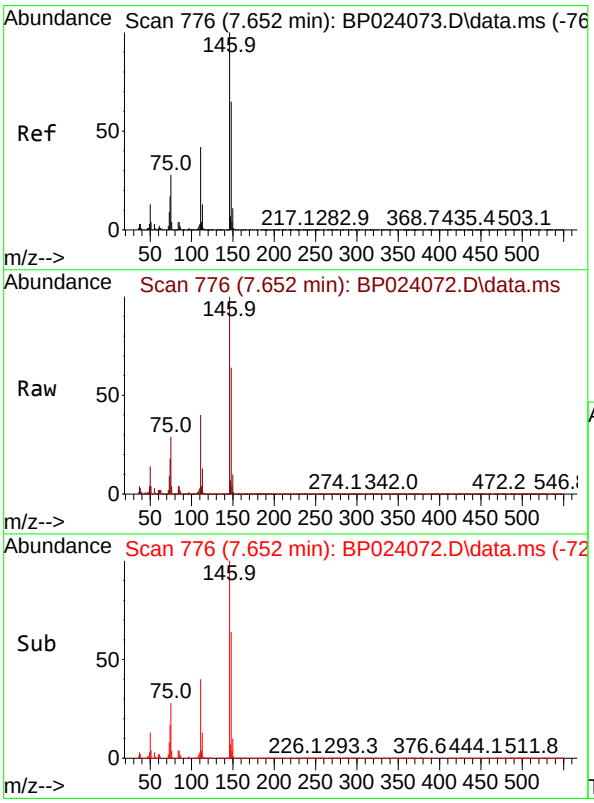
#11
bis(2-Chloroethyl)ether
Concen: 20.519 ng
RT: 7.187 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 526550

Ion	Ratio	Lower	Upper
93	100		
63	65.9	46.5	86.5
95	31.4	12.3	52.3

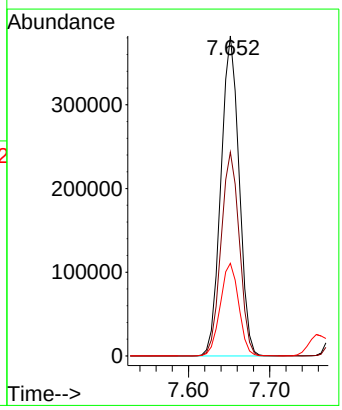


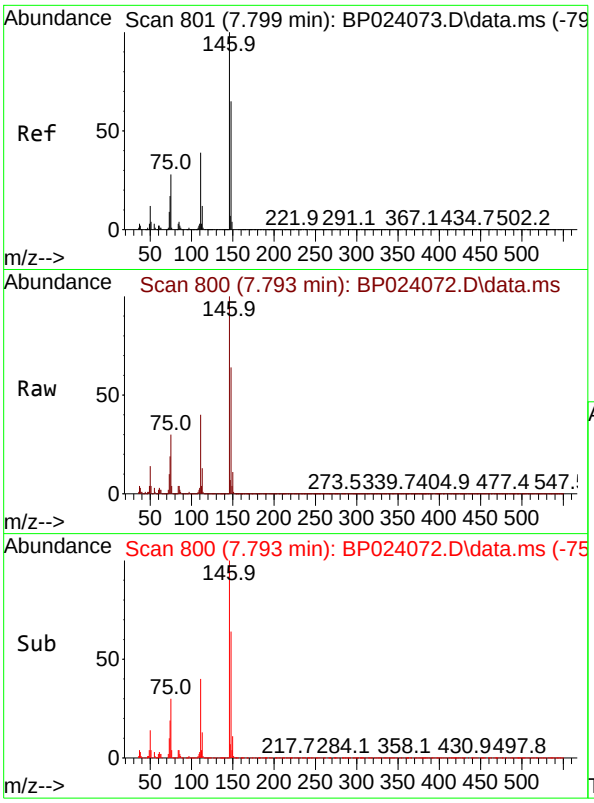


#12
1,3-Dichlorobenzene
Concen: 20.289 ng
RT: 7.652 min Scan# 776
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:146 Resp: 594730

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.8	77.8
75	28.9	22.6	33.8



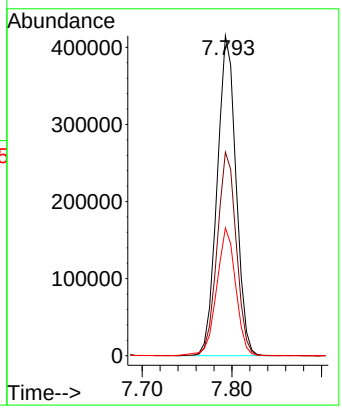


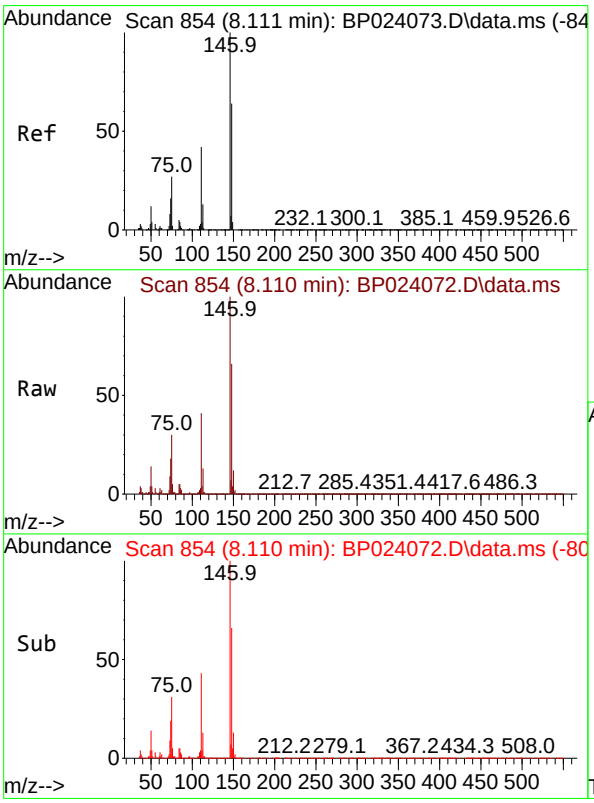
#13
1,4-Dichlorobenzene
Concen: 20.404 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 604858

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.6	77.4
111	39.9	31.2	46.8

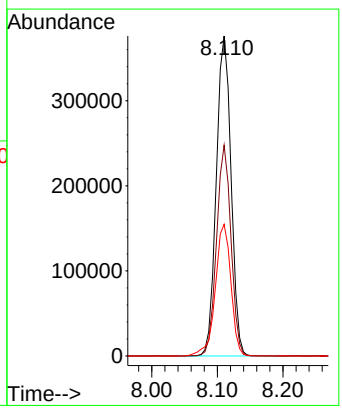


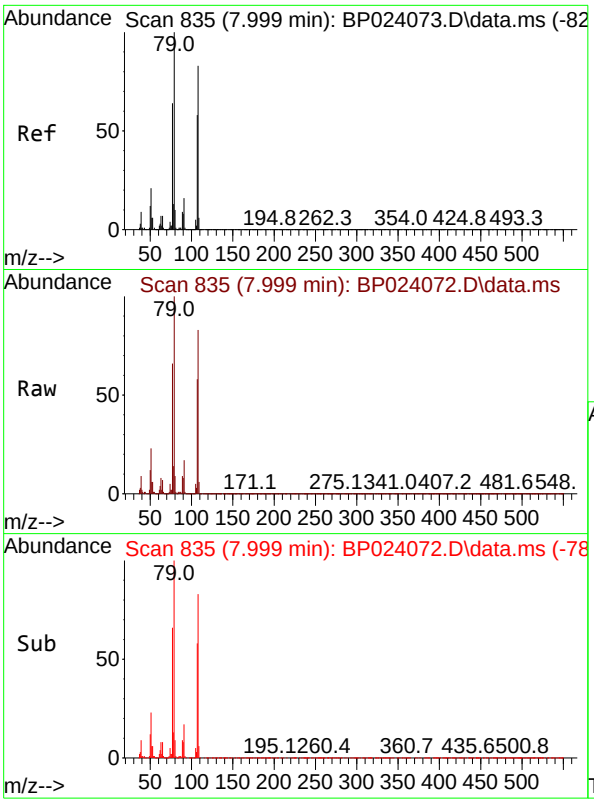


#14
1,2-Dichlorobenzene
Concen: 20.568 ng
RT: 8.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:146 Resp: 585148

Ion	Ratio	Lower	Upper
146	100		
148	65.9	51.2	76.8
111	41.1	33.4	50.0



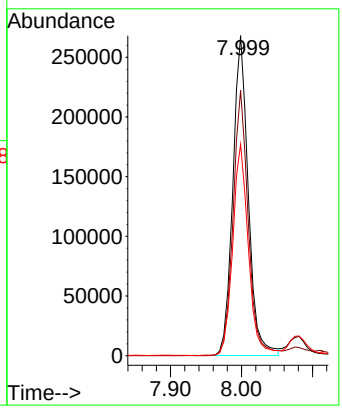


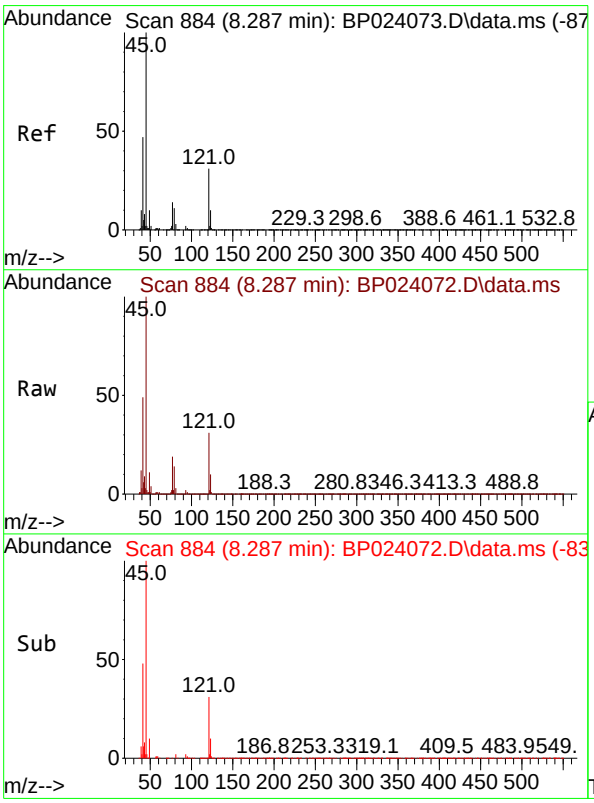
#15
Benzyl Alcohol
Concen: 20.452 ng
RT: 7.999 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 405612

Ion	Ratio	Lower	Upper
79	100		
108	82.9	66.4	99.6
77	66.0	51.3	76.9

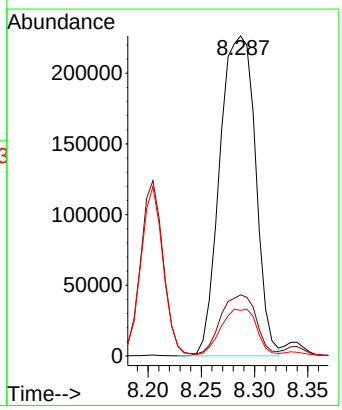


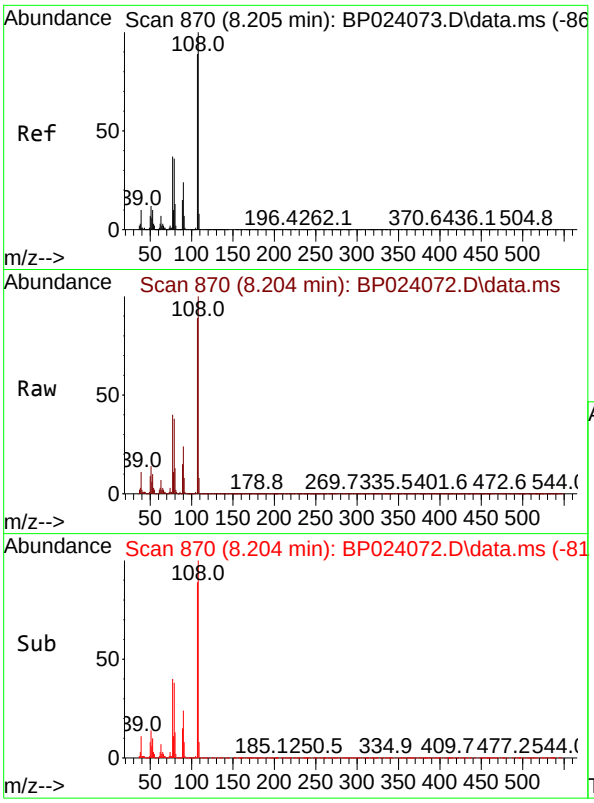


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.145 ng
RT: 8.287 min Scan# 884
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 45 Resp: 526749

Ion	Ratio	Lower	Upper
45	100		
77	19.1	0.0	38.8
79	14.3	0.0	35.4



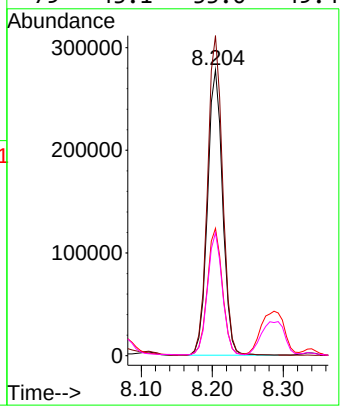


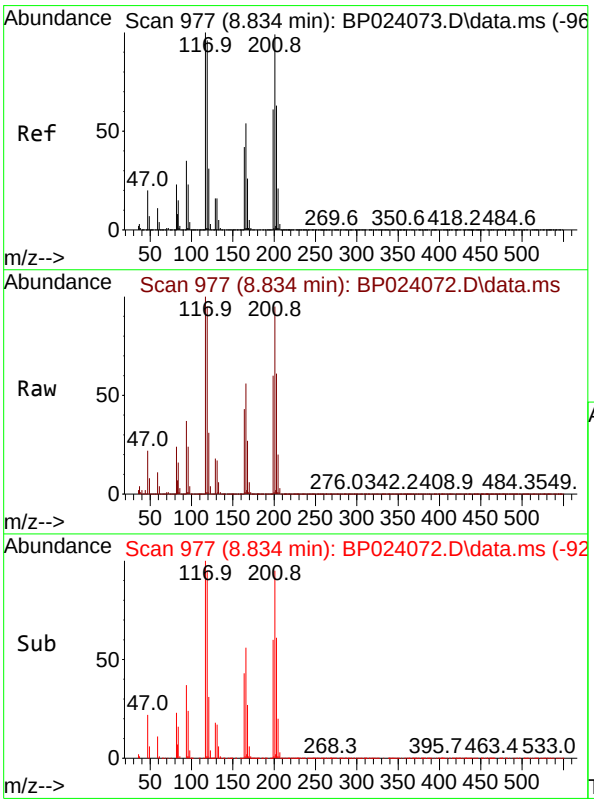
#17
2-Methylphenol
Concen: 20.668 ng
RT: 8.204 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 410347

Ion	Ratio	Lower	Upper
107	100		
108	112.0	90.0	135.0
77	44.6	33.8	50.6
79	43.1	33.0	49.4

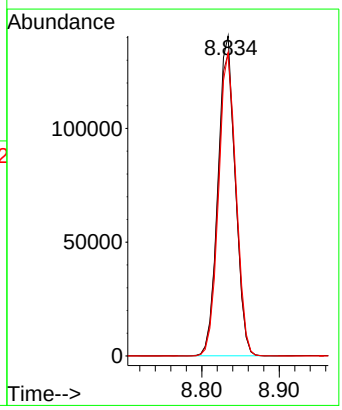


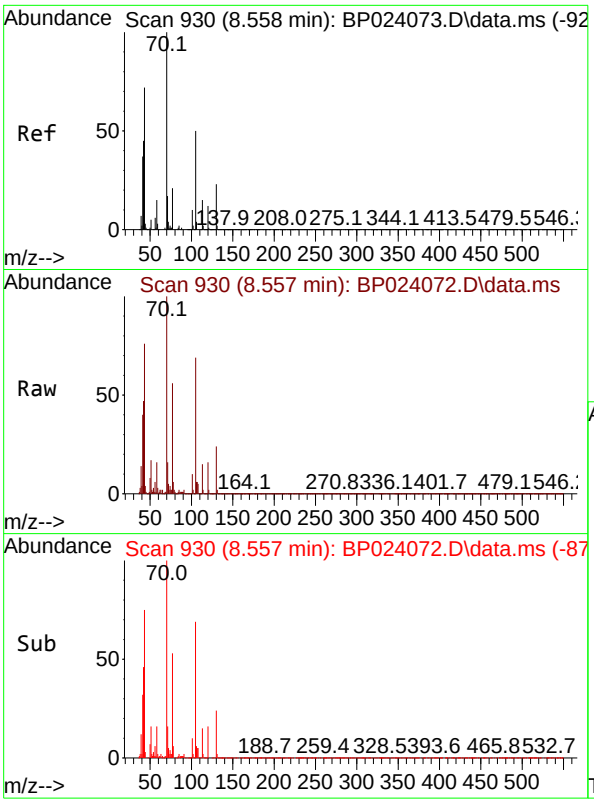


#18
Hexachloroethane
Concen: 20.482 ng
RT: 8.834 min Scan# 977
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:117 Resp: 218664

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.9	115.3
201	94.8	79.4	119.2



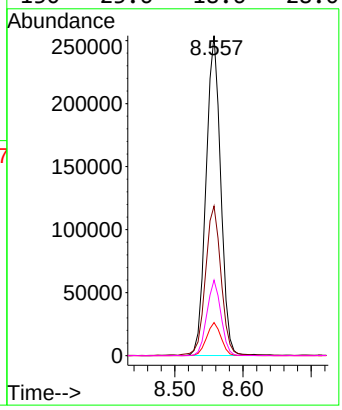


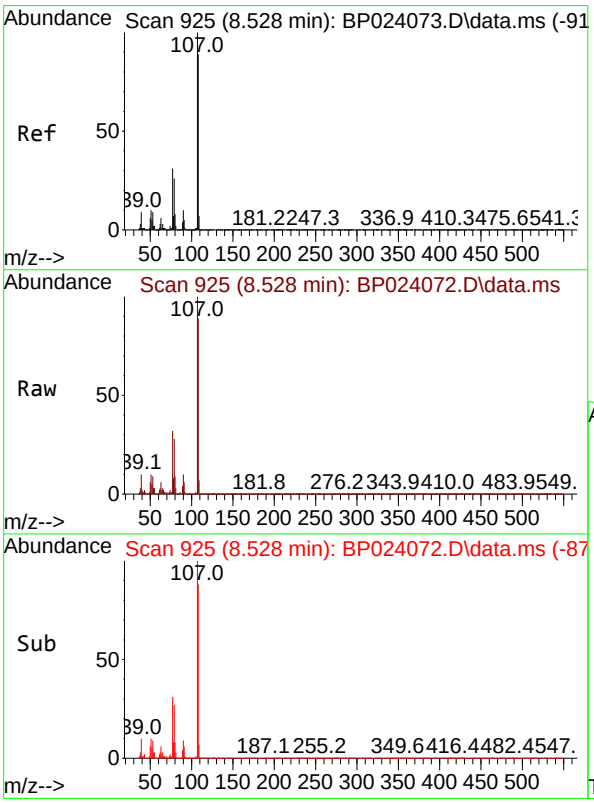
#19
n-Nitroso-di-n-propylamine
Concen: 21.749 ng
RT: 8.557 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 378883

Ion	Ratio	Lower	Upper
70	100		
42	46.8	36.6	54.8
101	10.3	8.2	12.2
130	23.6	18.6	28.0

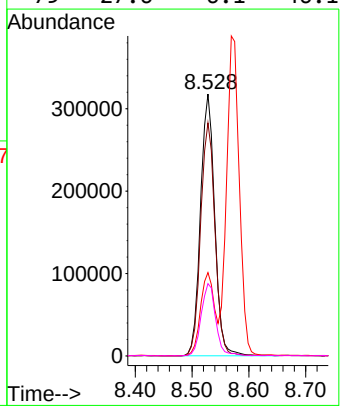


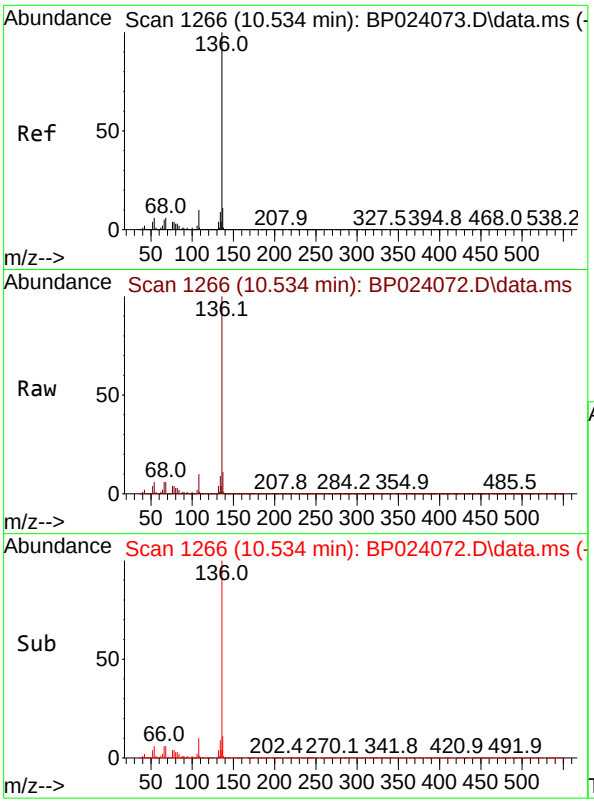


#20
3+4-Methylphenols
Concen: 20.432 ng
RT: 8.528 min Scan# 925
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:107 Resp: 551864

Ion	Ratio	Lower	Upper
107	100		
108	89.0	68.5	108.5
77	31.8	10.7	50.7
79	27.6	6.1	46.1



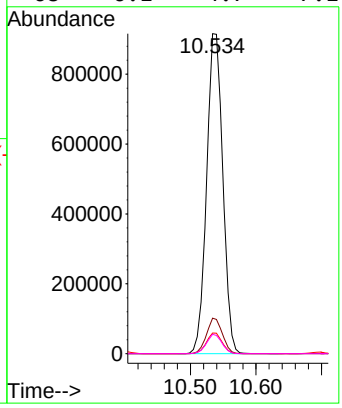


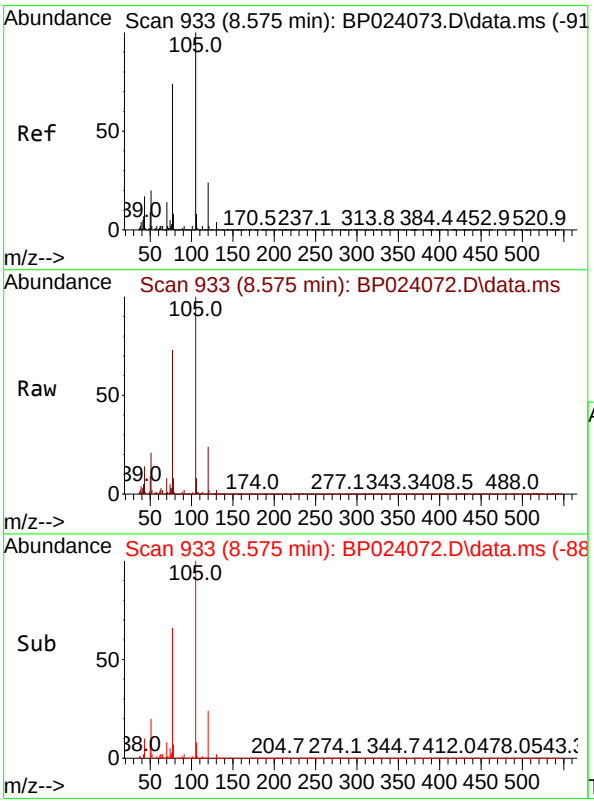
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 1570352

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	6.4	4.9	7.3
68	6.1	4.7	7.1

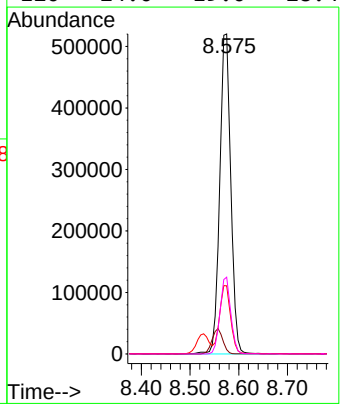


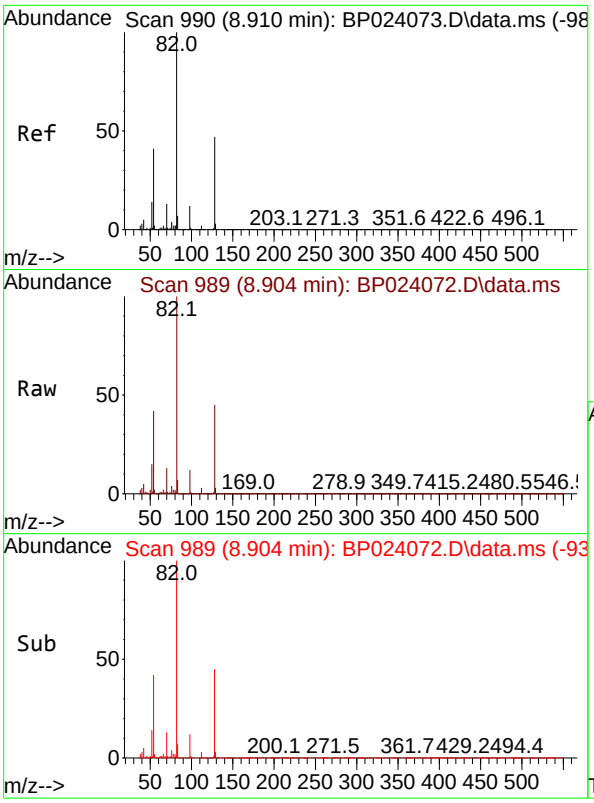


#22
Acetophenone
Concen: 20.334 ng
RT: 8.575 min Scan# 933
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:105 Resp: 820553

Ion	Ratio	Lower	Upper
105	100		
71	1.3	1.9	2.9#
51	21.3	16.3	24.5
120	24.0	19.0	28.4



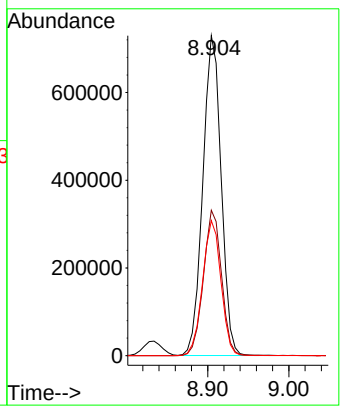


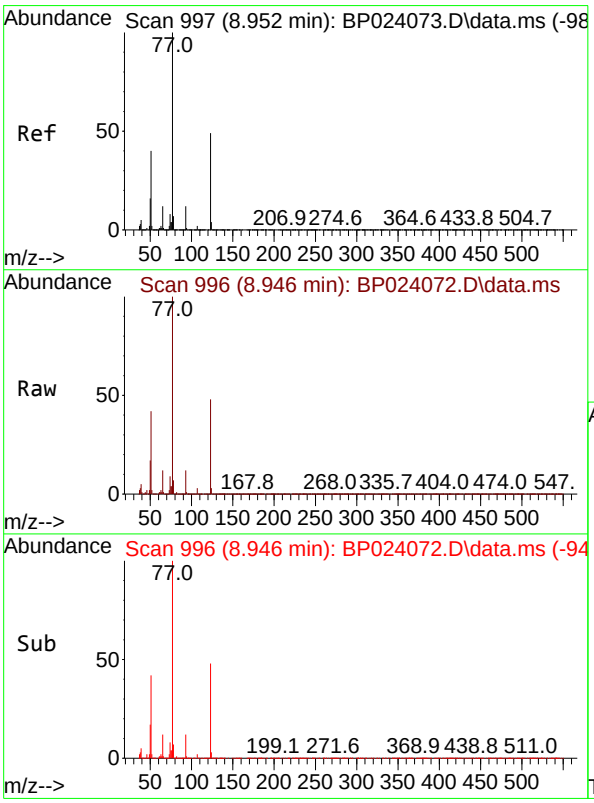
#23
Nitrobenzene-d5
Concen: 40.624 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 1143477

Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.4	56.2
54	42.2	32.4	48.6

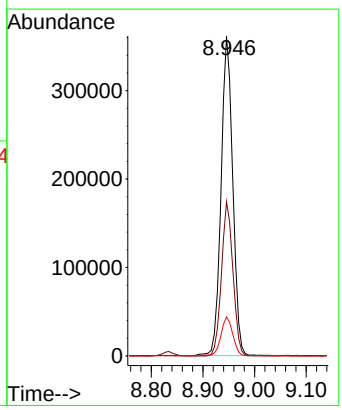


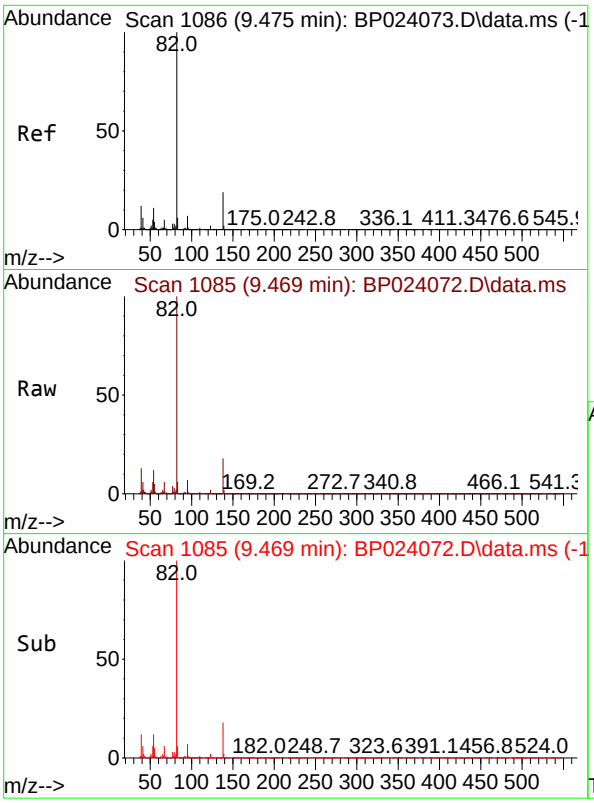


#24
Nitrobenzene
Concen: 20.476 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 77 Resp: 567224

Ion	Ratio	Lower	Upper
77	100		
123	48.2	39.4	59.2
65	12.2	9.9	14.9



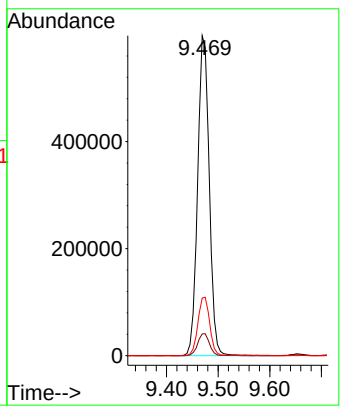


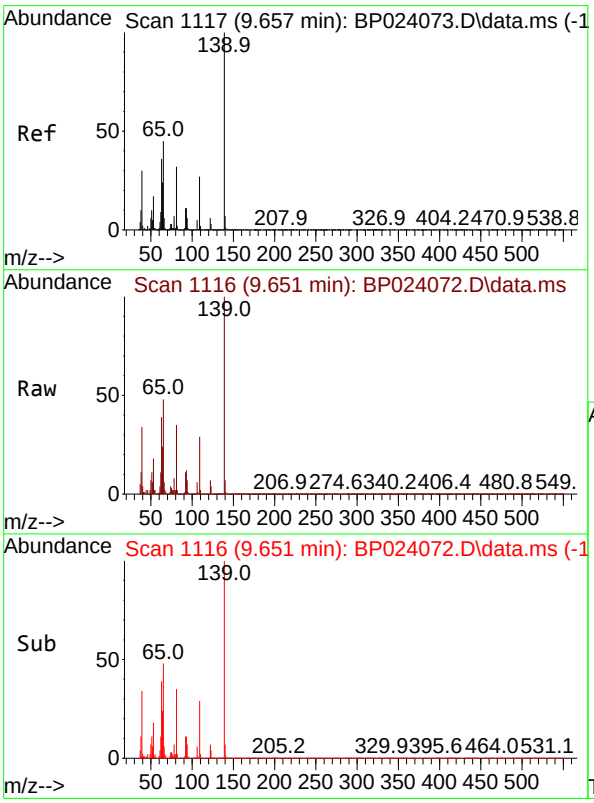
#25
Isophorone
Concen: 20.239 ng
RT: 9.469 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 931615

Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.4	8.0
138	18.0	15.3	22.9

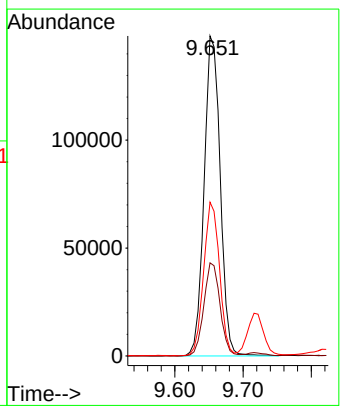


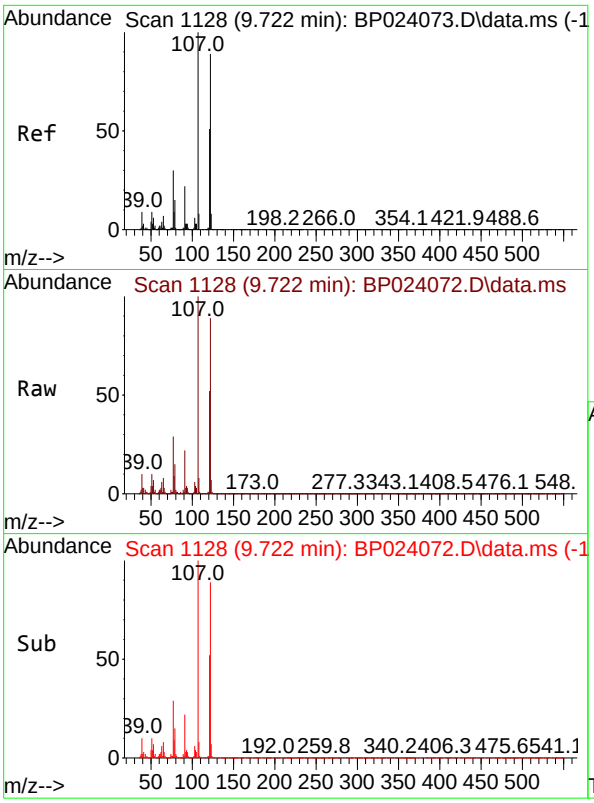


#26
2-Nitrophenol
Concen: 19.102 ng
RT: 9.651 min Scan# 1116
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:139 Resp: 243796

Ion	Ratio	Lower	Upper
139	100		
109	29.1	21.7	32.5
65	48.1	36.1	54.1



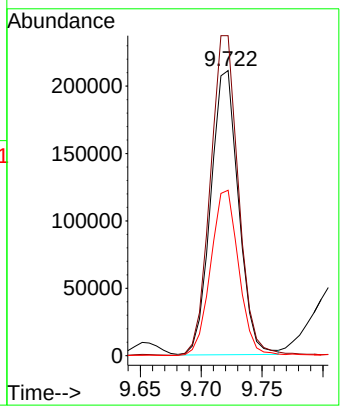


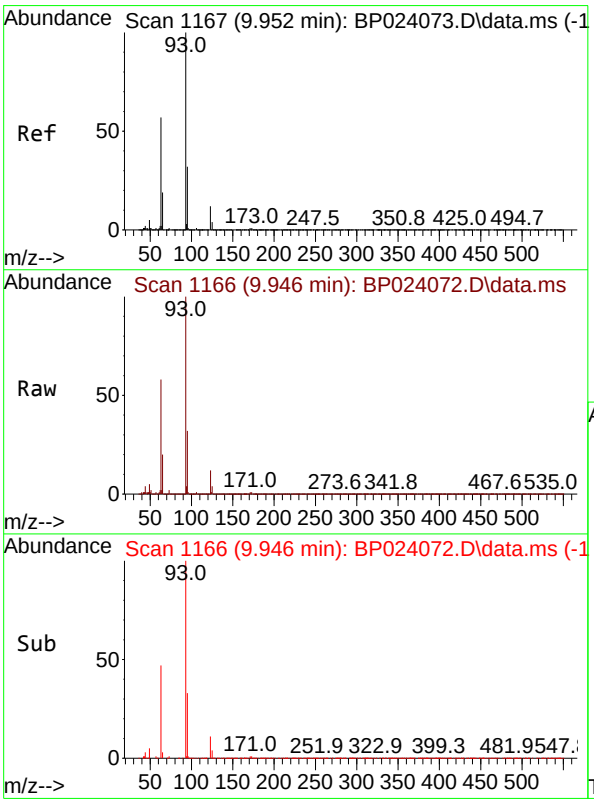
#27
2,4-Dimethylphenol
Concen: 19.978 ng
RT: 9.722 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 334688

Ion	Ratio	Lower	Upper
122	100		
107	112.3	89.8	134.8
121	58.0	45.9	68.9

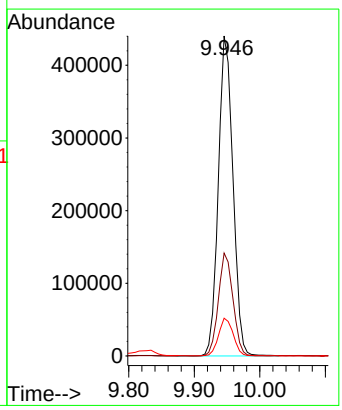


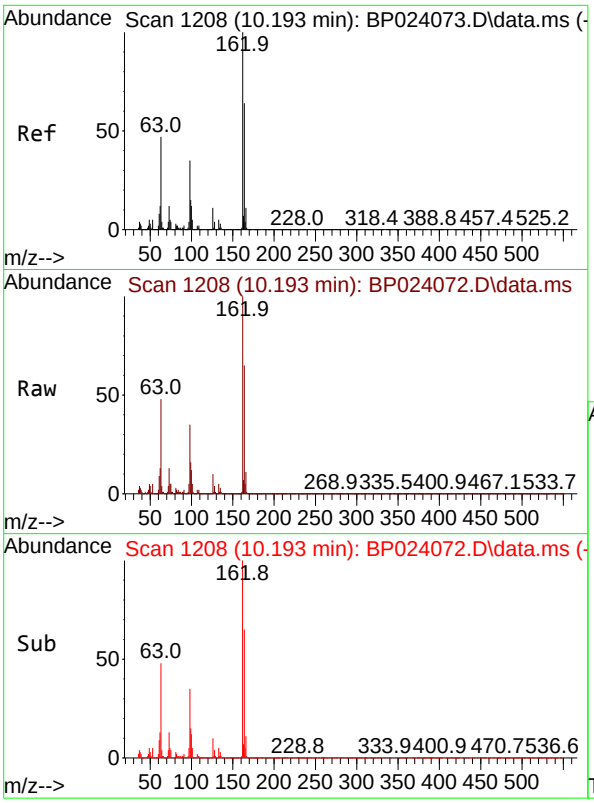


#28
bis(2-Chloroethoxy)methane
Concen: 20.365 ng
RT: 9.946 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 93 Resp: 679083

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.9	38.9
123	11.8	9.7	14.5



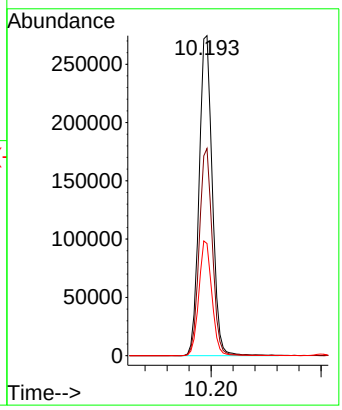


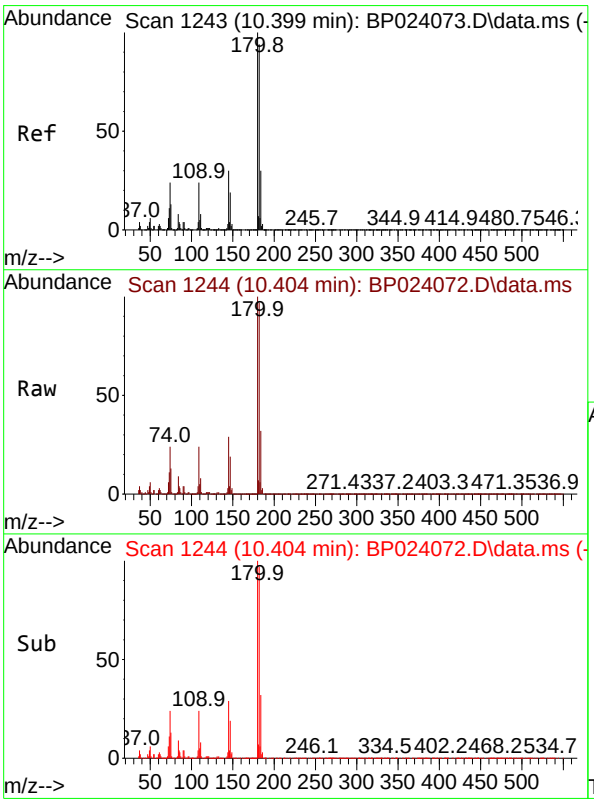
#29
2,4-Dichlorophenol
Concen: 19.967 ng
RT: 10.193 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 456514

Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.5	84.5
98	35.0	15.3	55.3

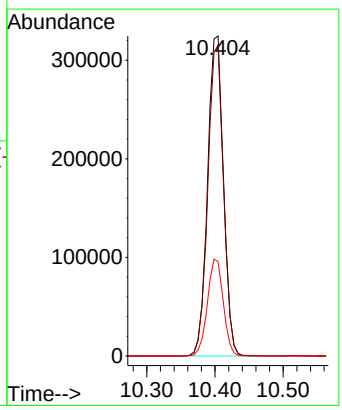


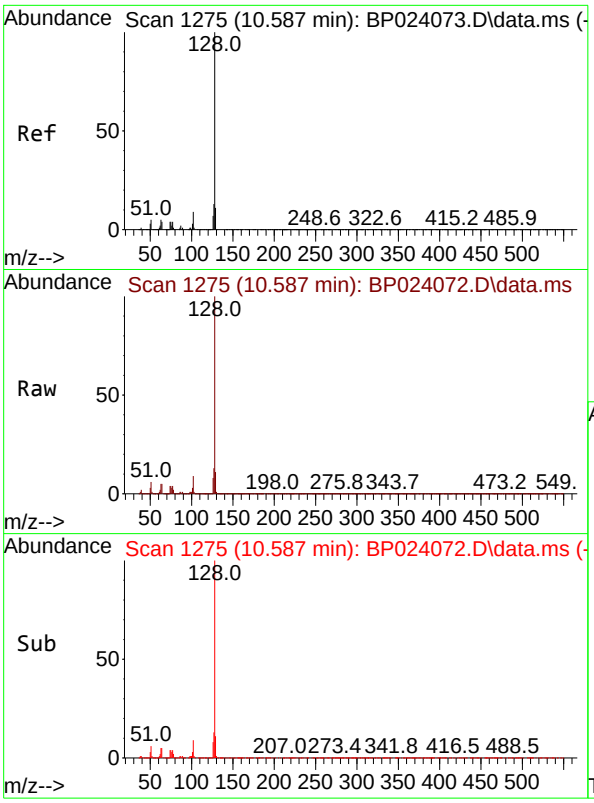


#30
1,2,4-Trichlorobenzene
Concen: 20.105 ng
RT: 10.404 min Scan# 1244
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:180 Resp: 526654

Ion	Ratio	Lower	Upper
180	100		
182	97.1	75.4	113.2
145	29.5	24.0	36.0



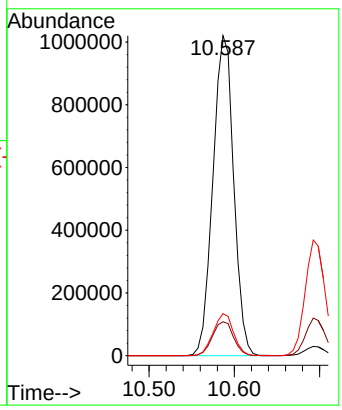


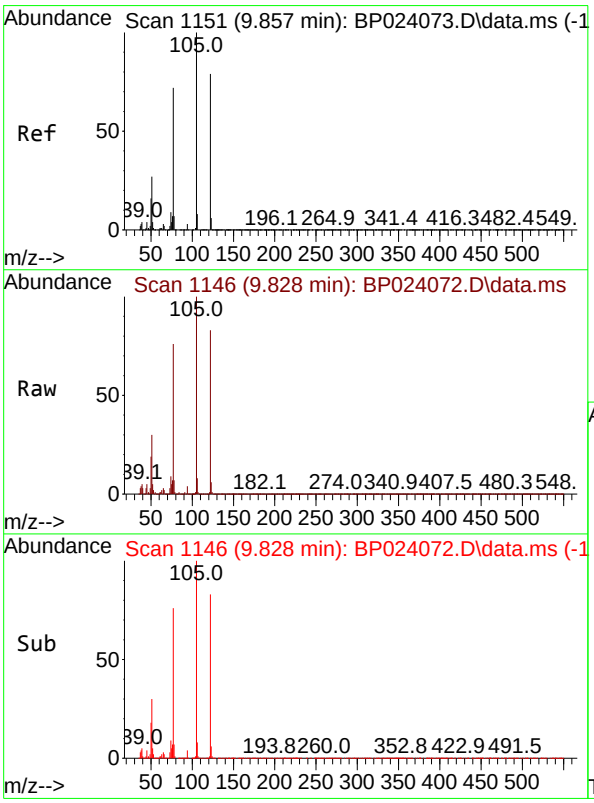
#31
Naphthalene
Concen: 20.448 ng
RT: 10.587 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 1726557

Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.6	13.0
127	13.1	10.3	15.5

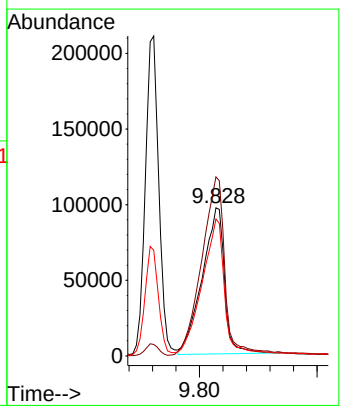


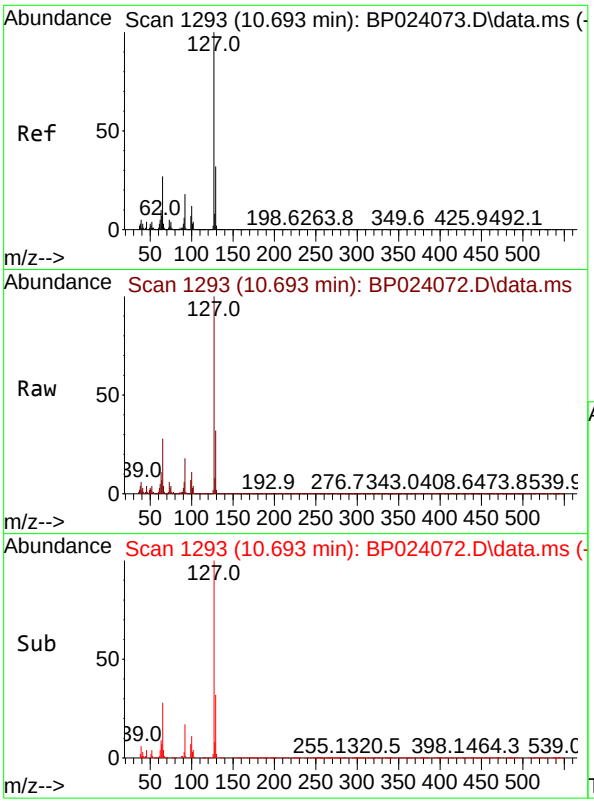


#32
Benzoic acid
Concen: 19.727 ng
RT: 9.828 min Scan# 1146
Delta R.T. -0.029 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:122 Resp: 254899

Ion	Ratio	Lower	Upper
122	100		
105	120.9	103.7	143.7
77	92.5	69.9	109.9



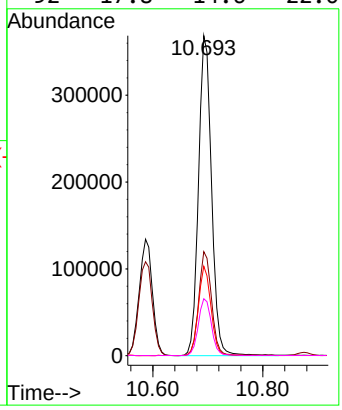


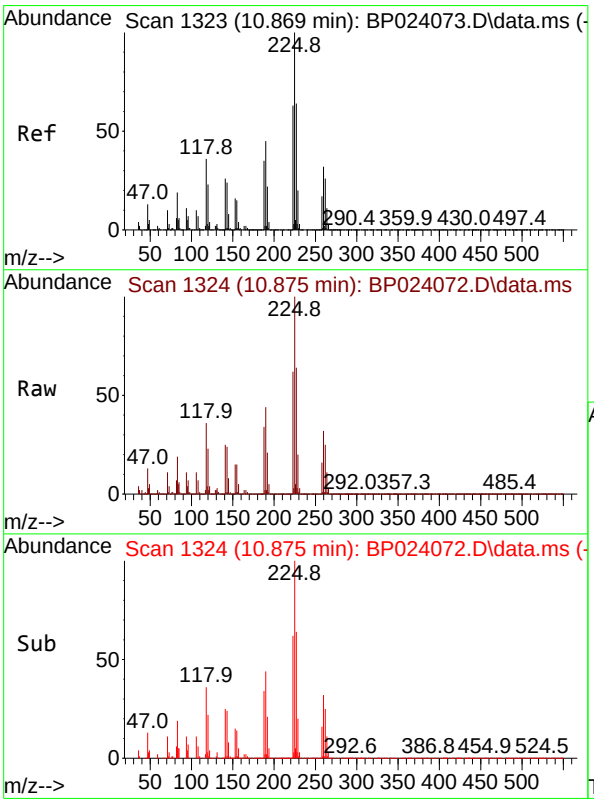
#33
4-Chloroaniline
Concen: 20.428 ng
RT: 10.693 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 607673

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.4	38.0
65	28.0	21.3	31.9
92	17.8	14.6	22.0

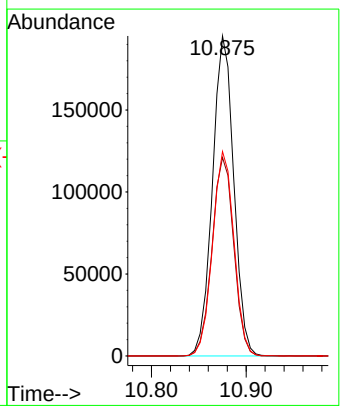


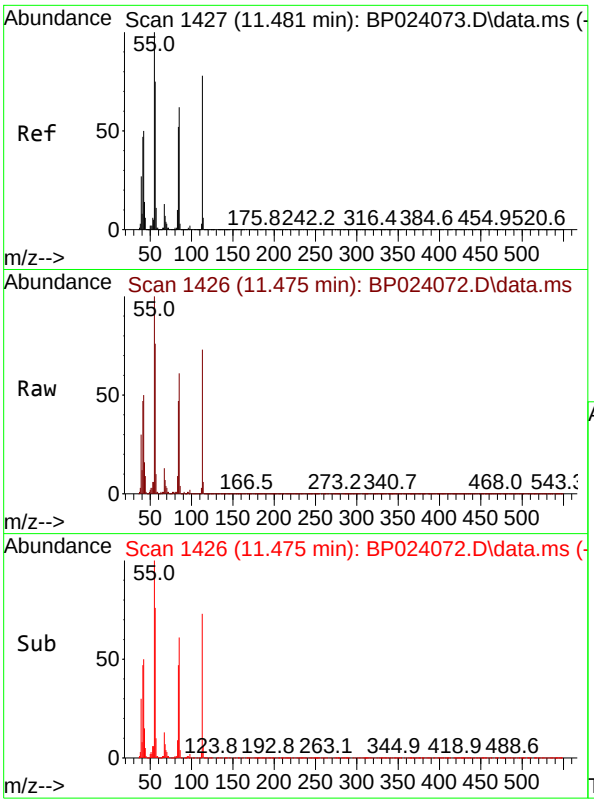


#34
Hexachlorobutadiene
Concen: 20.124 ng
RT: 10.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:225 Resp: 305325

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.5	75.7
227	63.9	51.3	76.9



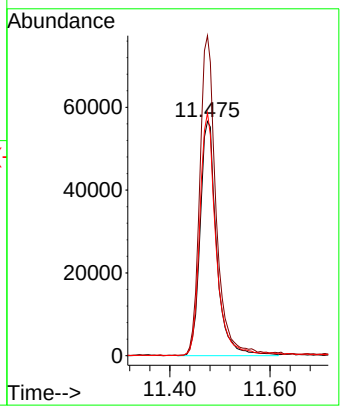


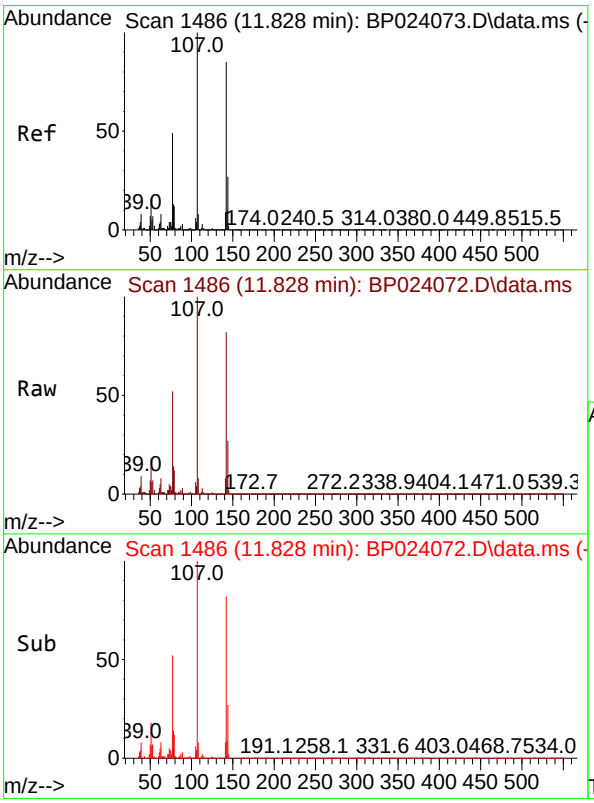
#35
Caprolactam
Concen: 20.337 ng
RT: 11.475 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 128622

Ion	Ratio	Lower	Upper
113	100		
55	136.6	108.8	148.8
56	103.7	76.5	116.5

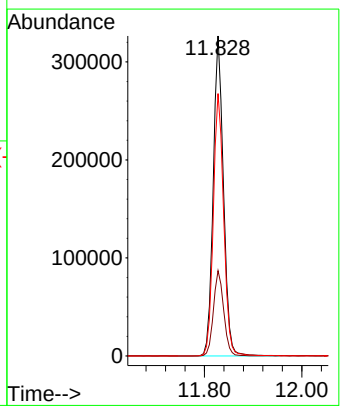


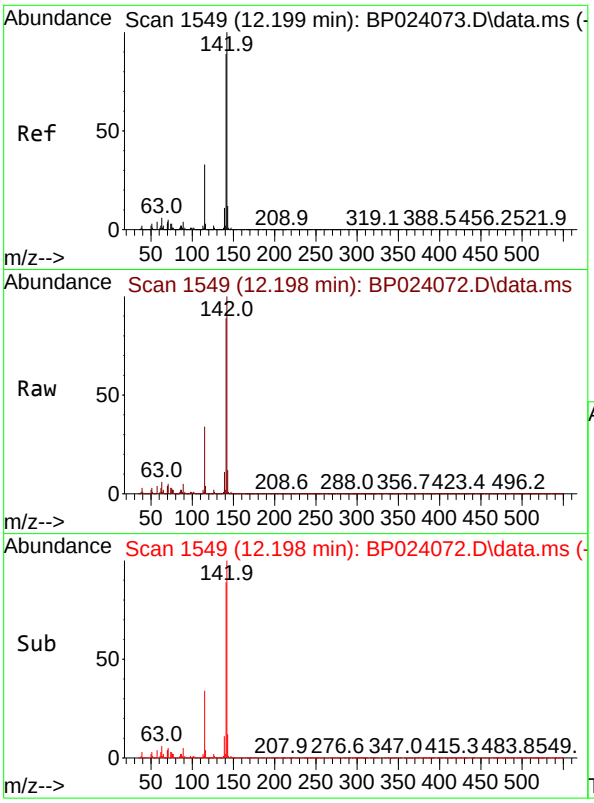


#36
4-Chloro-3-methylphenol
Concen: 20.200 ng
RT: 11.828 min Scan# 1486
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:107 Resp: 474767

Ion	Ratio	Lower	Upper
107	100		
144	26.7	21.8	32.8
142	82.0	67.8	101.8



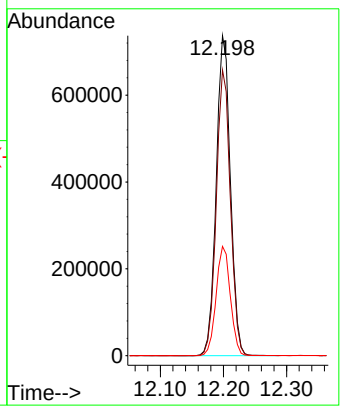


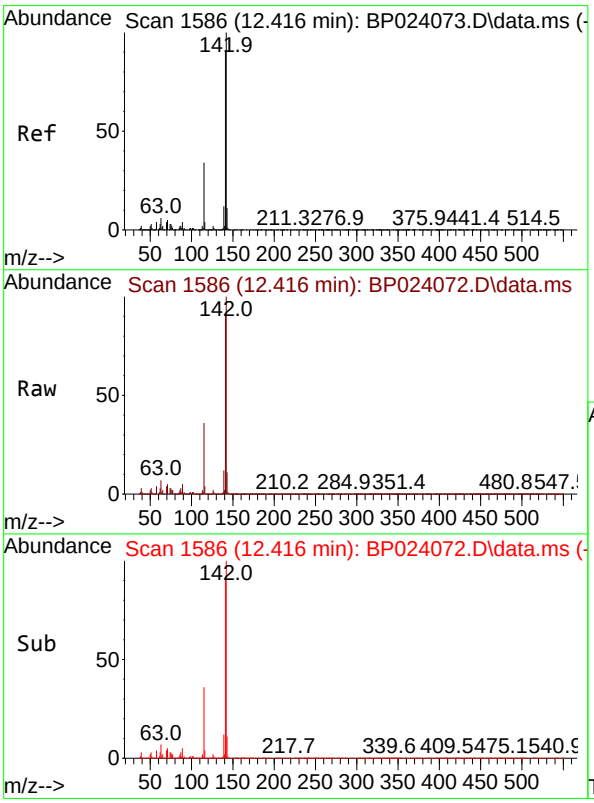
#37
2-Methylnaphthalene
Concen: 20.383 ng
RT: 12.198 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 1143934

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.2	106.8
115	34.1	26.5	39.7

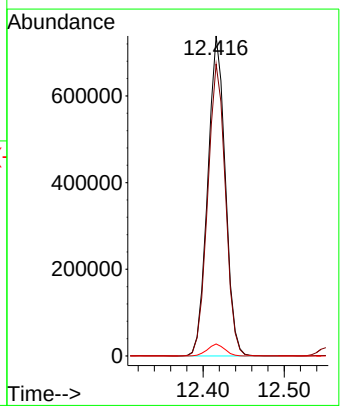


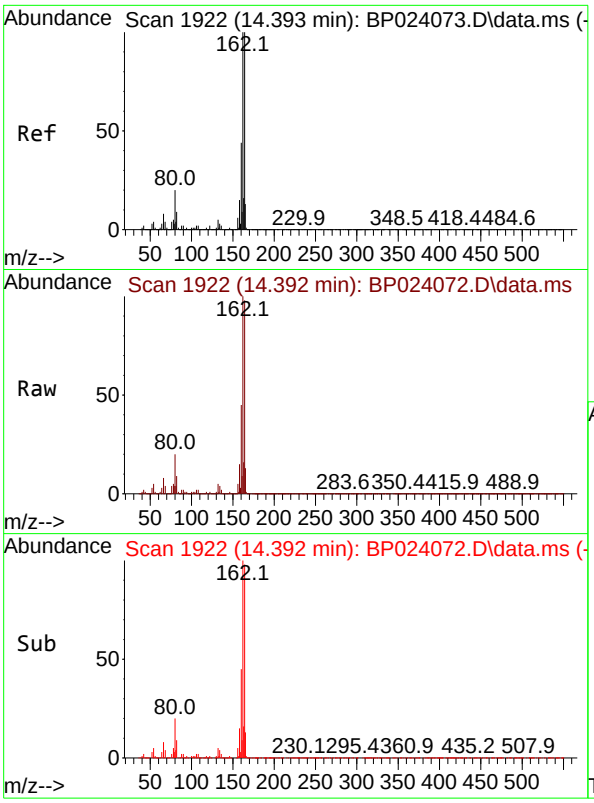


#38
1-Methylnaphthalene
Concen: 20.321 ng
RT: 12.416 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:142 Resp: 1109475

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.0	109.6
116	3.8	2.8	4.2



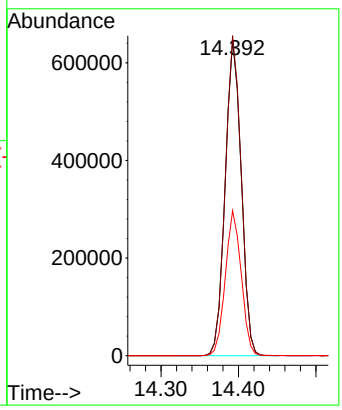


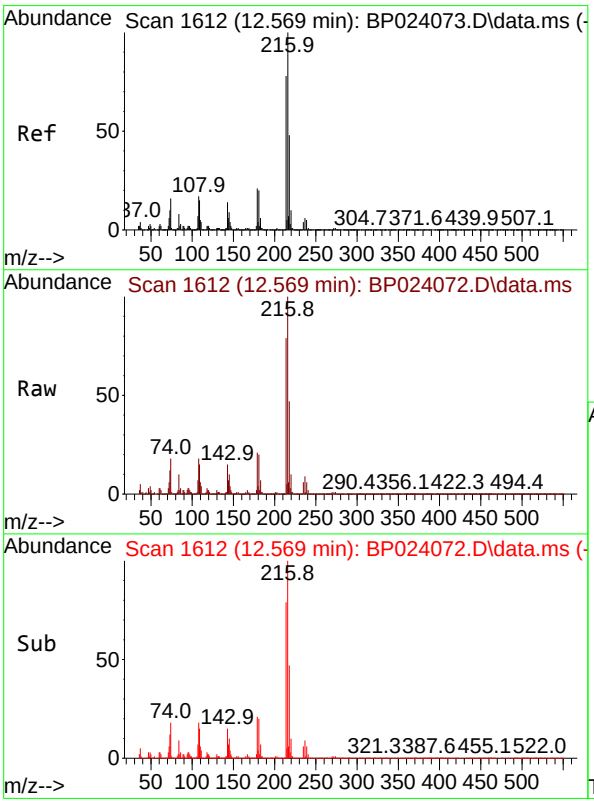
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 930913

Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.1	120.1
160	46.0	35.6	53.4

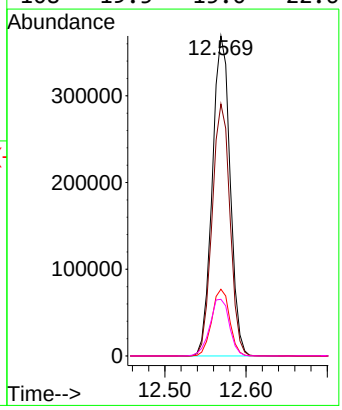


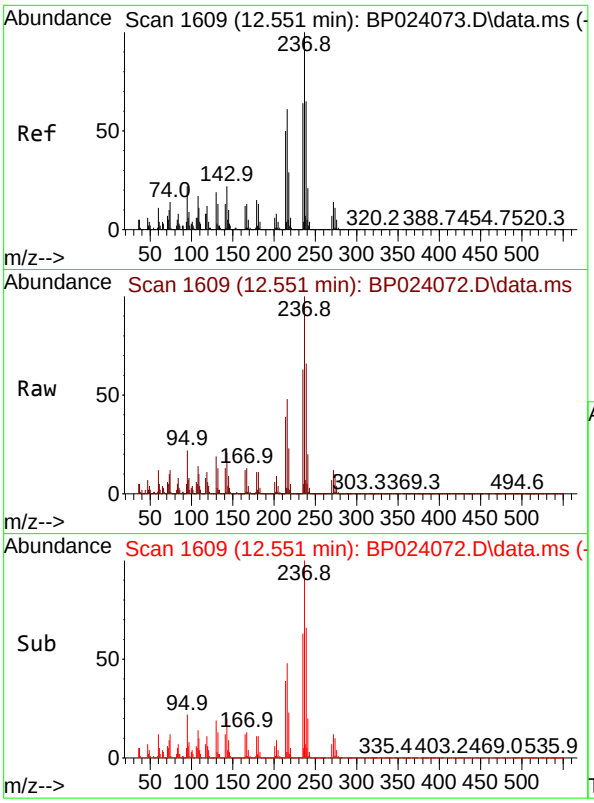


#40
1,2,4,5-Tetrachlorobenzene
Concen: 19.690 ng
RT: 12.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:216 Resp: 563196

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.7	94.1
179	20.9	16.6	25.0
108	19.5	15.0	22.6



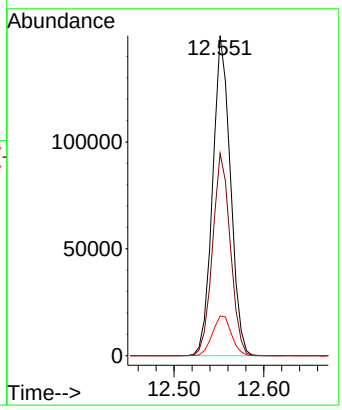


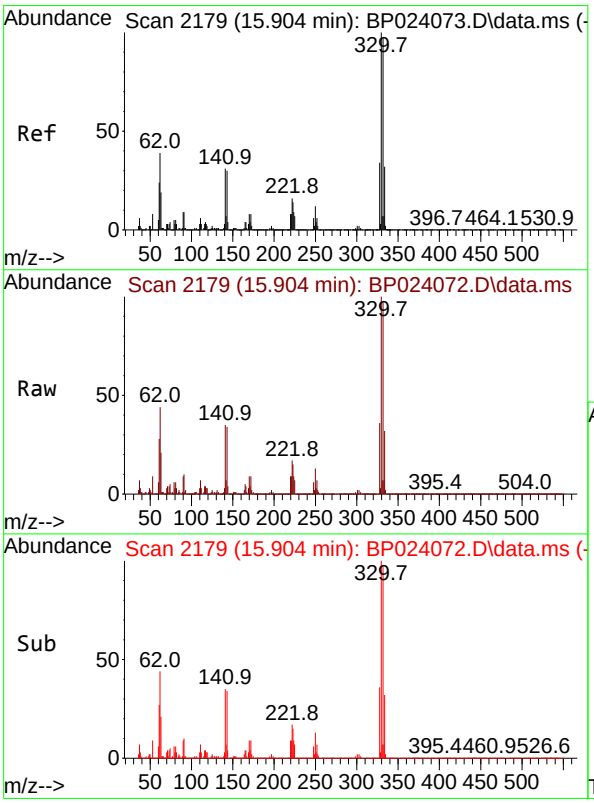
#41
Hexachlorocyclopentadiene
Concen: 19.340 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 205846

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.5	83.5
272	12.4	0.0	33.7

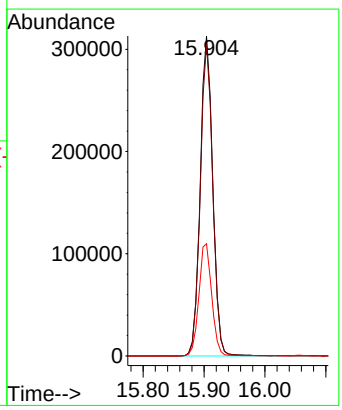


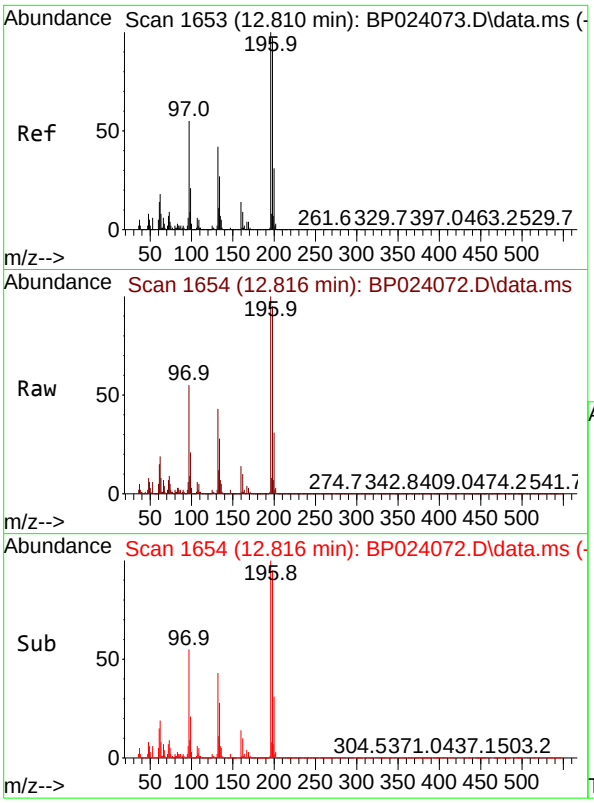


#42
2,4,6-Tribromophenol
Concen: 39.205 ng
RT: 15.904 min Scan# 2179
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:330 Resp: 447043

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.0	115.4
141	35.9	28.3	42.5



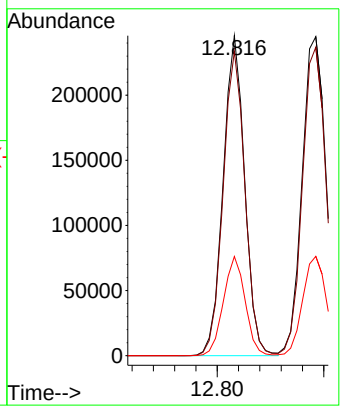


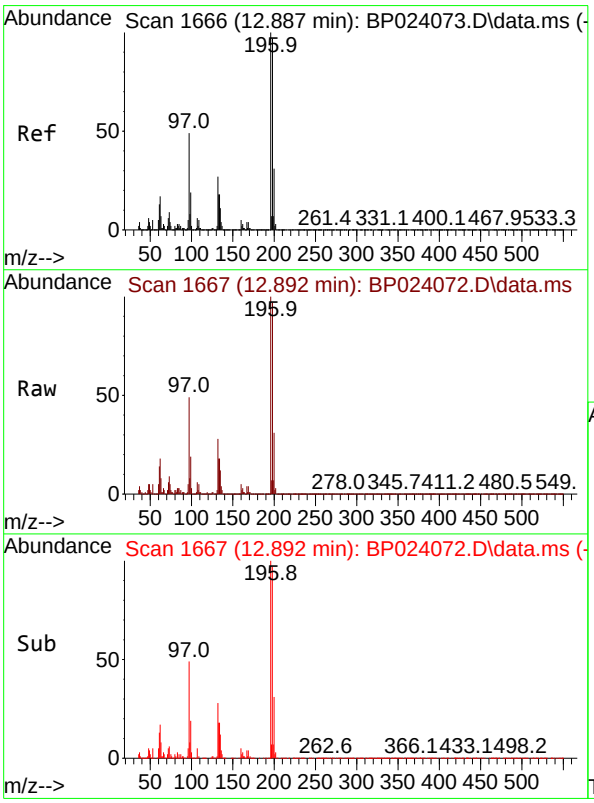
#43
2,4,6-Trichlorophenol
Concen: 19.787 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 345162

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.8	116.6
200	31.0	25.0	37.4

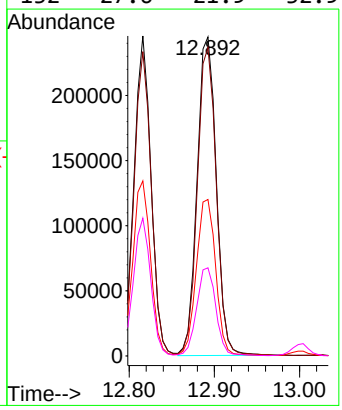


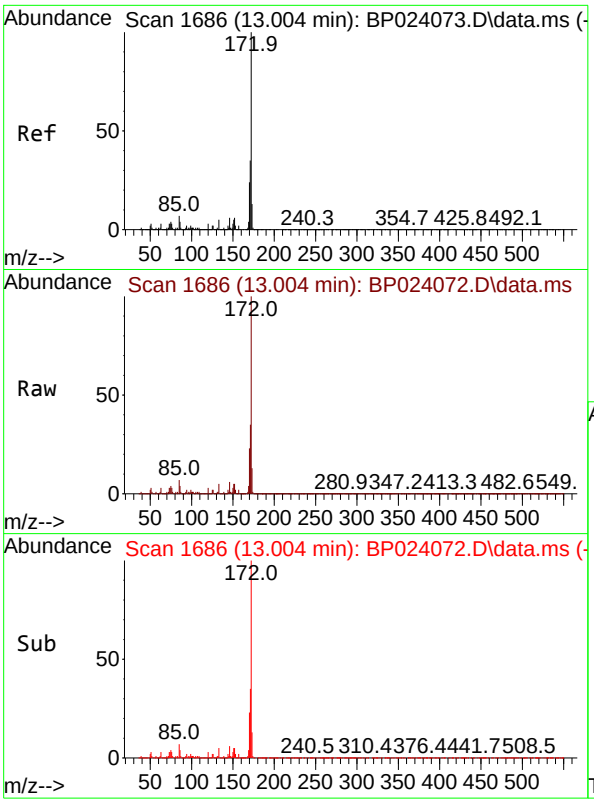


#44
2,4,5-Trichlorophenol
Concen: 20.093 ng
RT: 12.892 min Scan# 1667
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:196 Resp: 383315

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.4	116.2
97	49.0	39.0	58.4
132	27.6	21.9	32.9



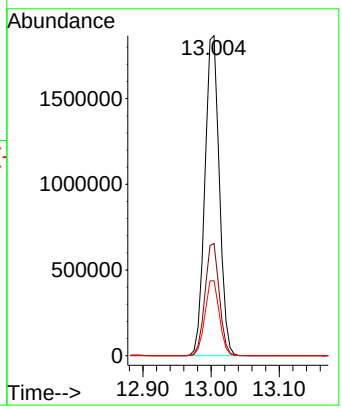


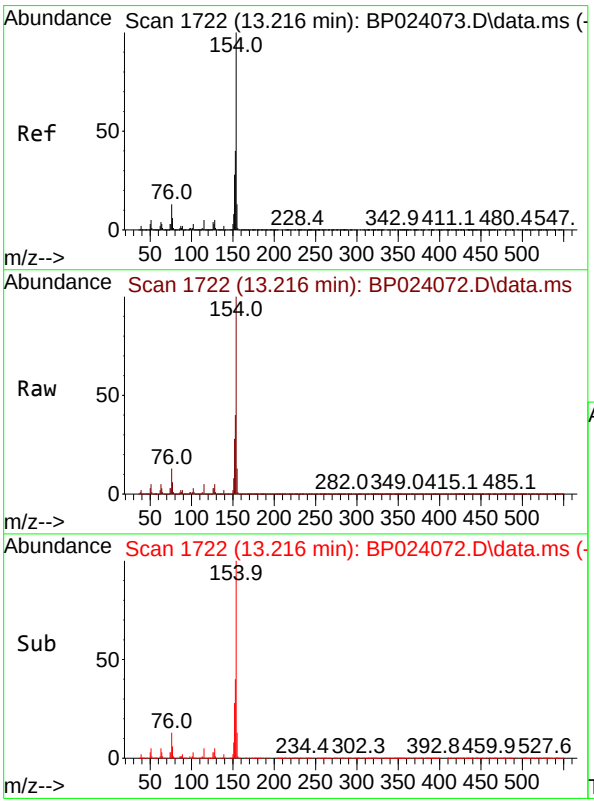
#45
2-Fluorobiphenyl
Concen: 41.297 ng
RT: 13.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 2749952

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.2
170	23.5	19.0	28.6

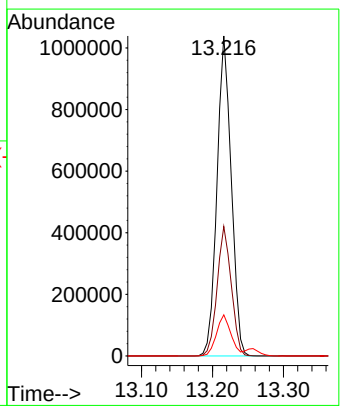


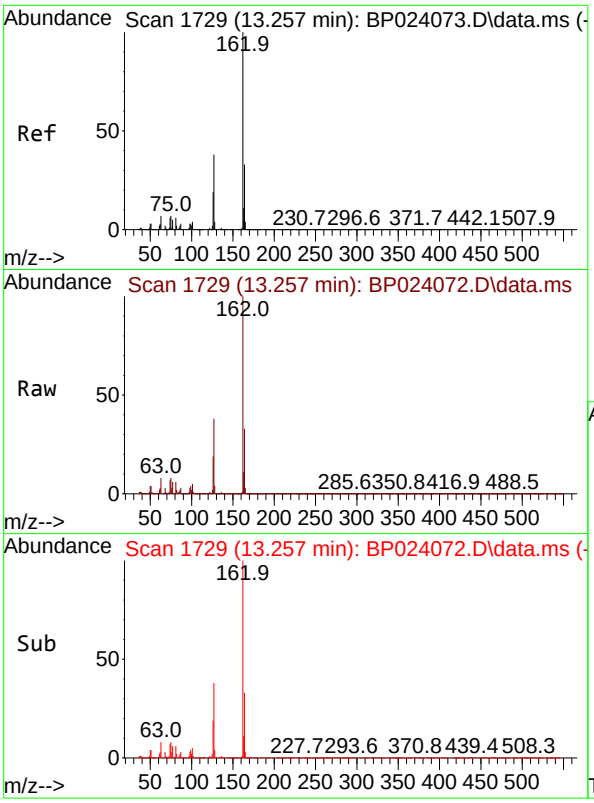


#46
1,1'-Biphenyl
Concen: 19.974 ng
RT: 13.216 min Scan# 1722
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:154 Resp: 1444899

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.0	60.0
76	12.8	0.0	32.6



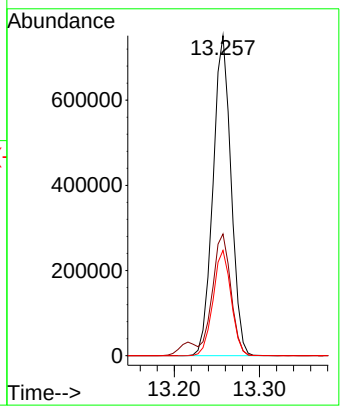


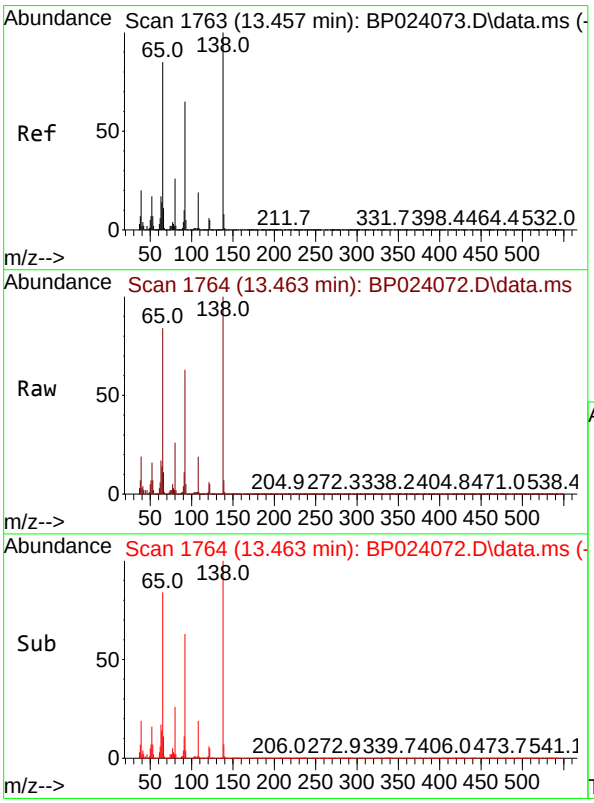
#47
2-Chloronaphthalene
Concen: 20.180 ng
RT: 13.257 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 1103499

Ion	Ratio	Lower	Upper
162	100		
127	38.0	30.7	46.1
164	32.9	26.6	39.8

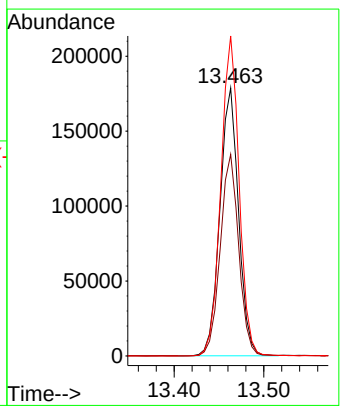


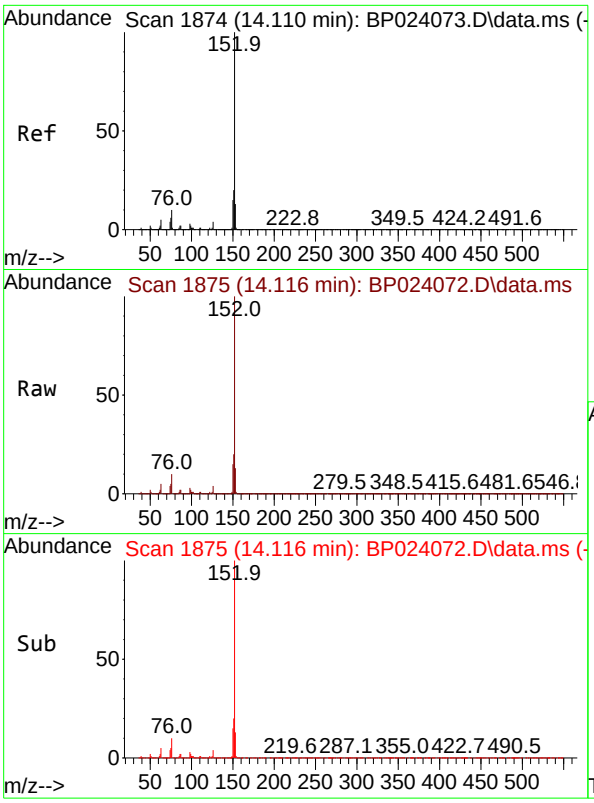


#48
2-Nitroaniline
Concen: 19.977 ng
RT: 13.463 min Scan# 1764
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion: 65 Resp: 258044

Ion	Ratio	Lower	Upper
65	100		
92	75.2	61.7	92.5
138	119.4	94.6	142.0



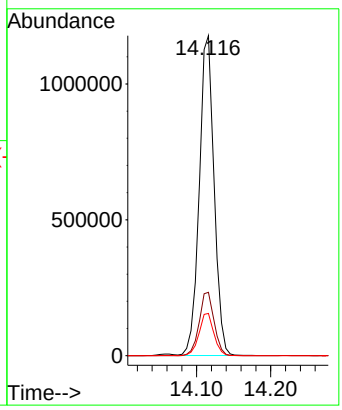


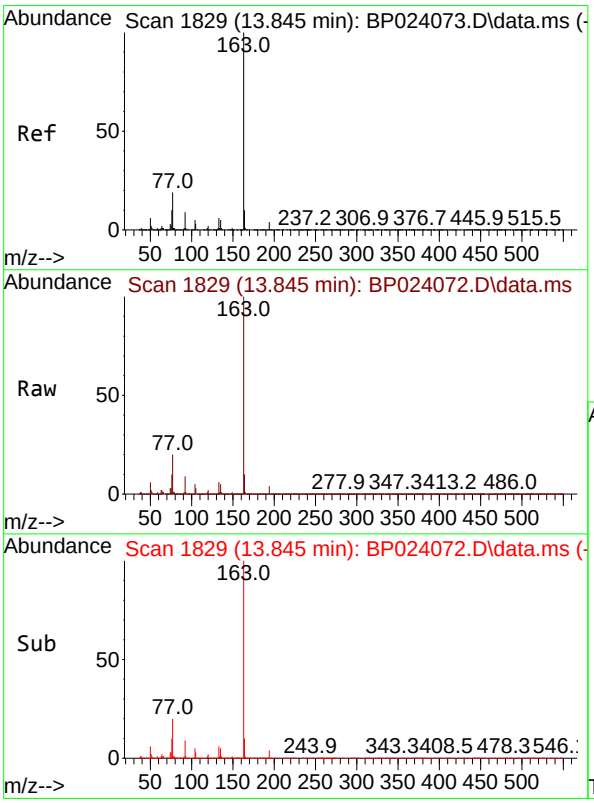
#49
Acenaphthylene
Concen: 20.262 ng
RT: 14.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 1632474

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.2	10.7	16.1

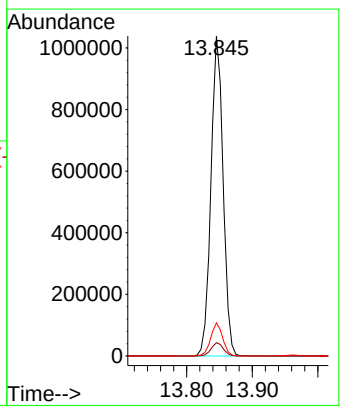


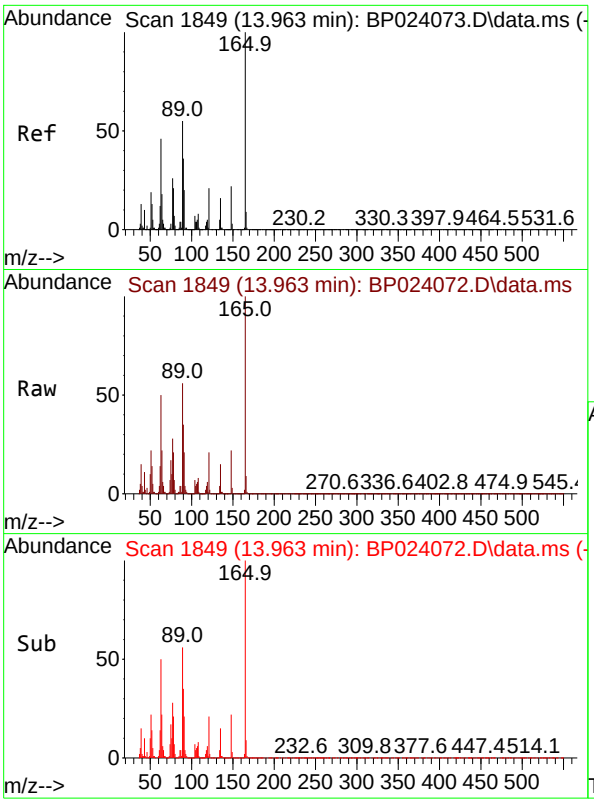


#50
Dimethylphthalate
Concen: 20.385 ng
RT: 13.845 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:163 Resp: 1338599

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.4	8.1	12.1



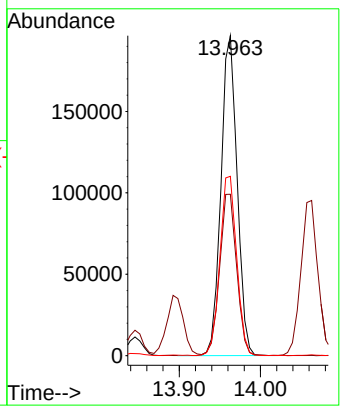


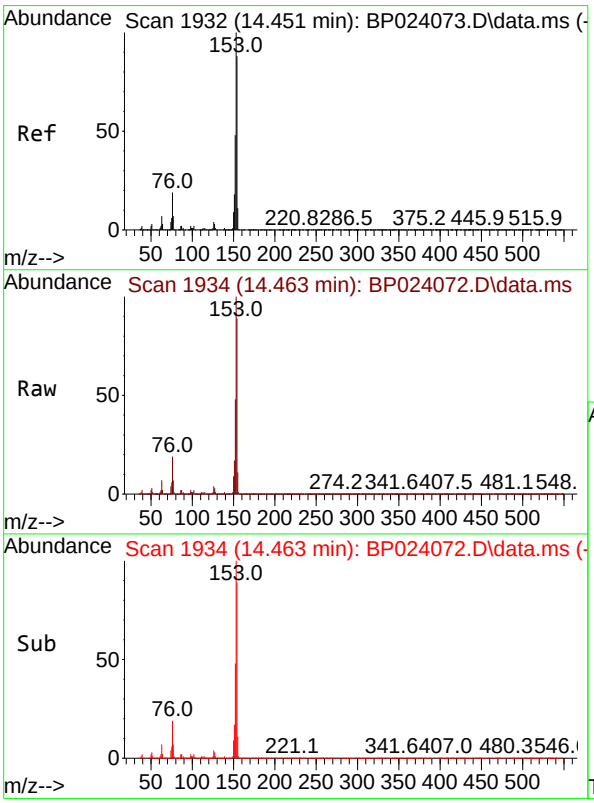
#51
2,6-Dinitrotoluene
Concen: 20.381 ng
RT: 13.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 272624

Ion	Ratio	Lower	Upper
165	100		
63	50.4	40.1	60.1
89	56.0	44.2	66.4

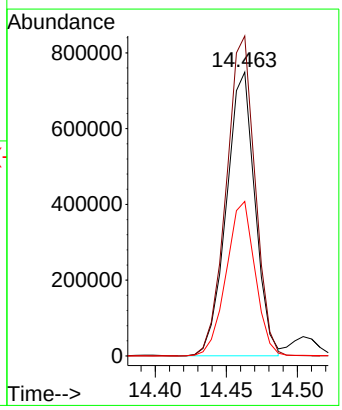


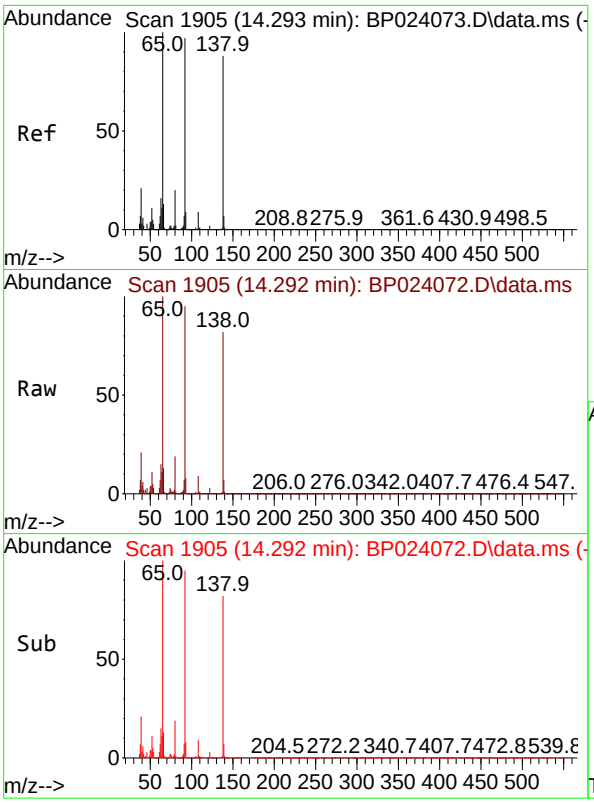


#52
Acenaphthene
Concen: 20.218 ng
RT: 14.463 min Scan# 1934
Delta R.T. 0.012 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:154 Resp: 1048976

Ion	Ratio	Lower	Upper
154	100		
153	112.8	90.6	135.8
152	54.4	43.6	65.4



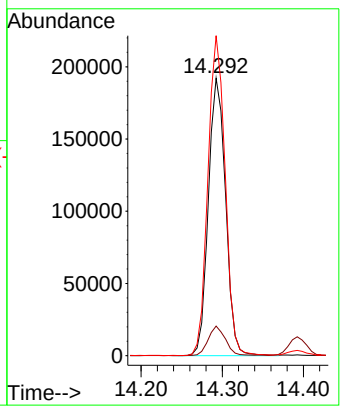


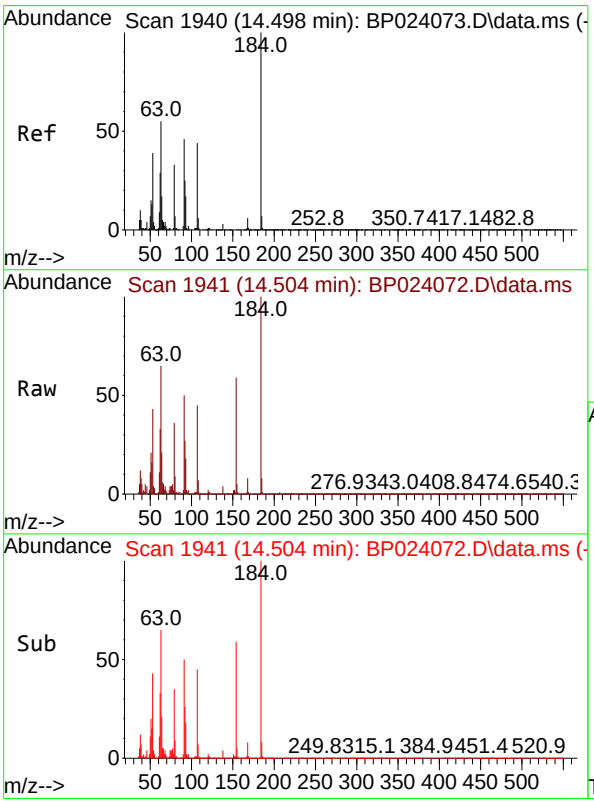
#53
3-Nitroaniline
Concen: 19.866 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 283559

Ion	Ratio	Lower	Upper
138	100		
108	10.7	7.8	11.8
92	115.4	88.4	132.6

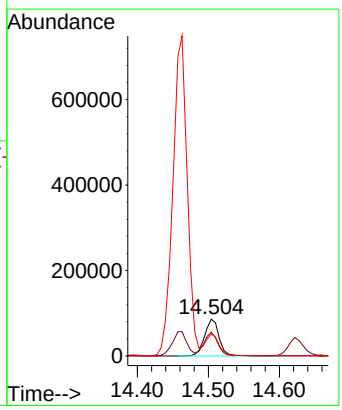


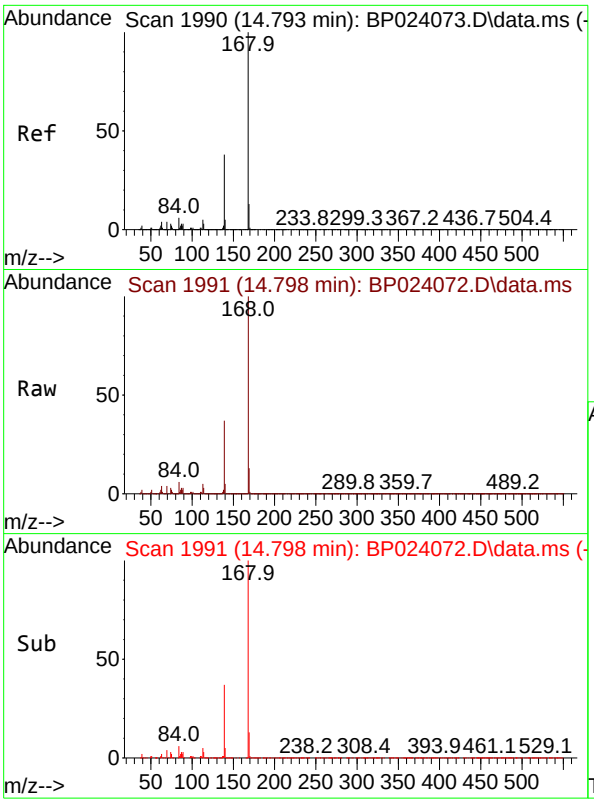


#54
2,4-Dinitrophenol
Concen: 20.302 ng
RT: 14.504 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:184 Resp: 122329

Ion	Ratio	Lower	Upper
184	100		
63	64.8	49.4	74.0
154	59.5	49.2	73.8



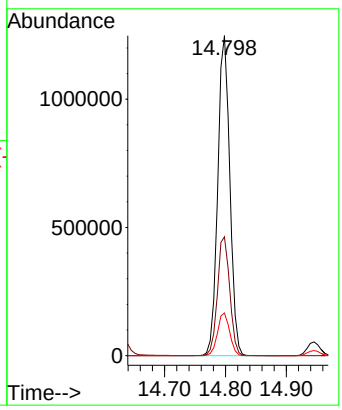


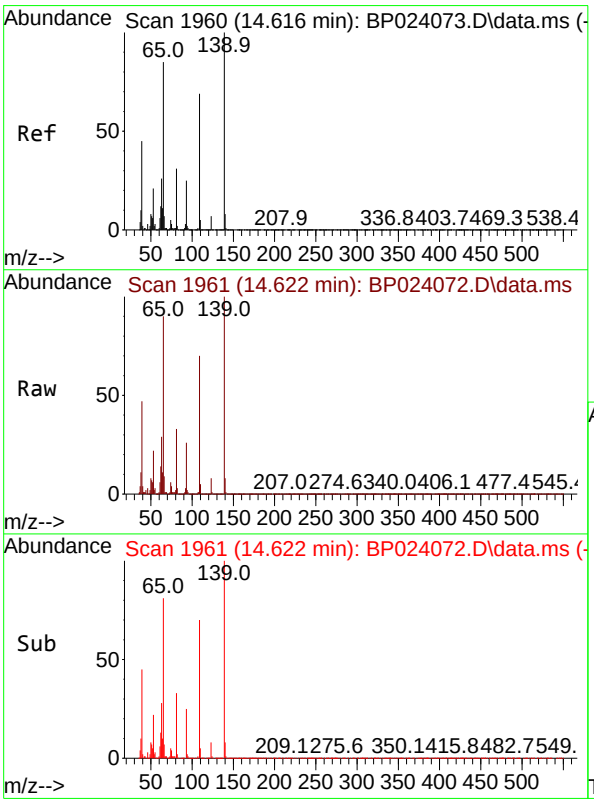
#55
Dibenzofuran
Concen: 20.290 ng
RT: 14.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 1710130

Ion	Ratio	Lower	Upper
168	100		
139	37.2	30.2	45.2
169	13.4	10.7	16.1

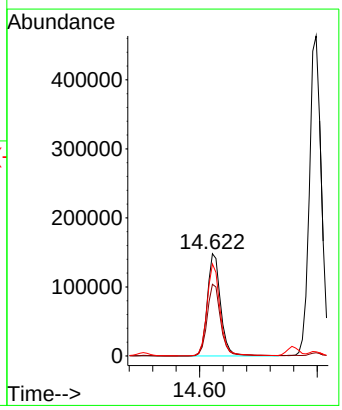


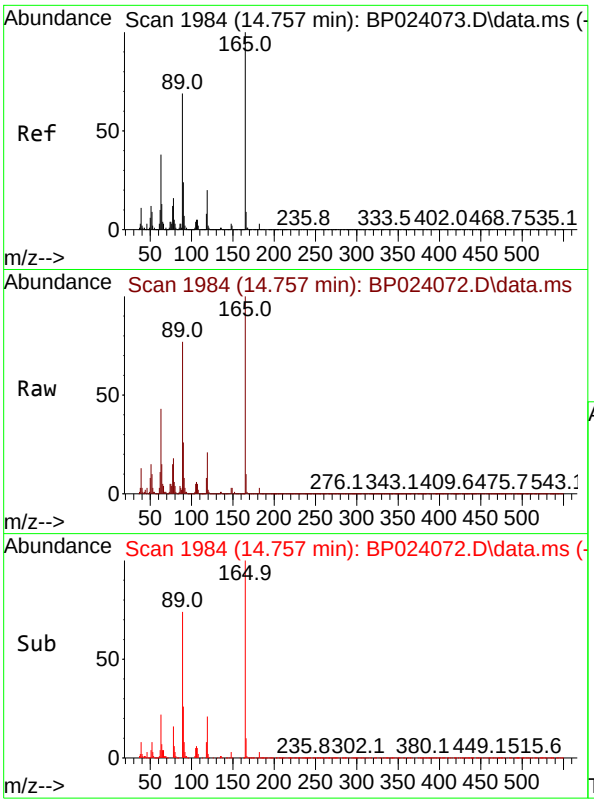


#56
4-Nitrophenol
Concen: 18.819 ng
RT: 14.622 min Scan# 1961
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:139 Resp: 232029

Ion	Ratio	Lower	Upper
139	100		
109	70.1	49.2	89.2
65	90.0	65.4	105.4



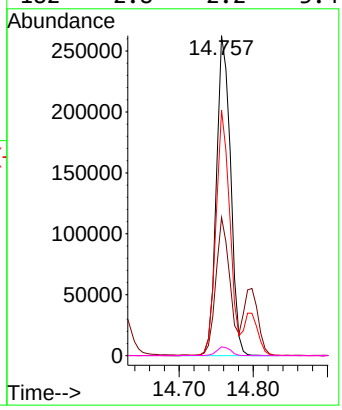


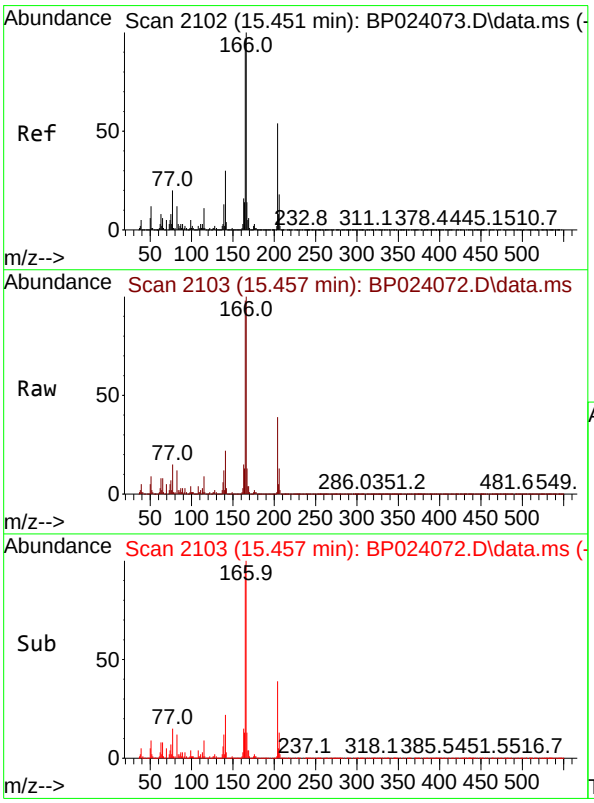
#57
2,4-Dinitrotoluene
Concen: 19.992 ng
RT: 14.757 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 347384

Ion	Ratio	Lower	Upper
165	100		
63	43.2	30.4	45.6
89	76.8	54.8	82.2
182	2.8	2.2	3.4

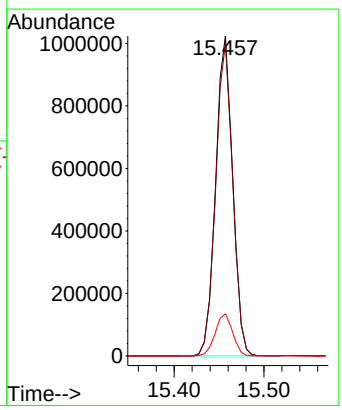


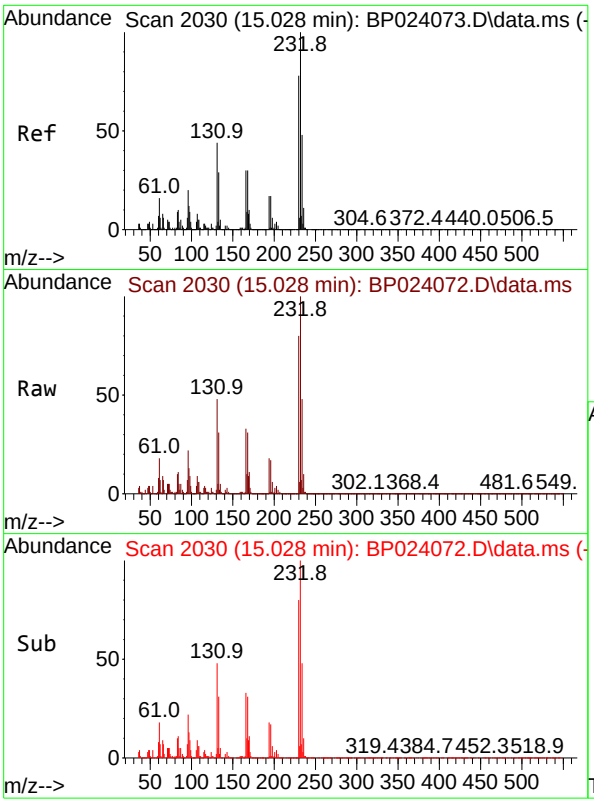


#58
Fluorene
Concen: 20.550 ng
RT: 15.457 min Scan# 2103
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:166 Resp: 1352679

Ion	Ratio	Lower	Upper
166	100		
165	97.5	77.5	116.3
167	13.1	10.9	16.3



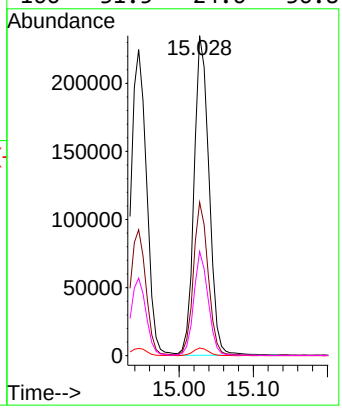


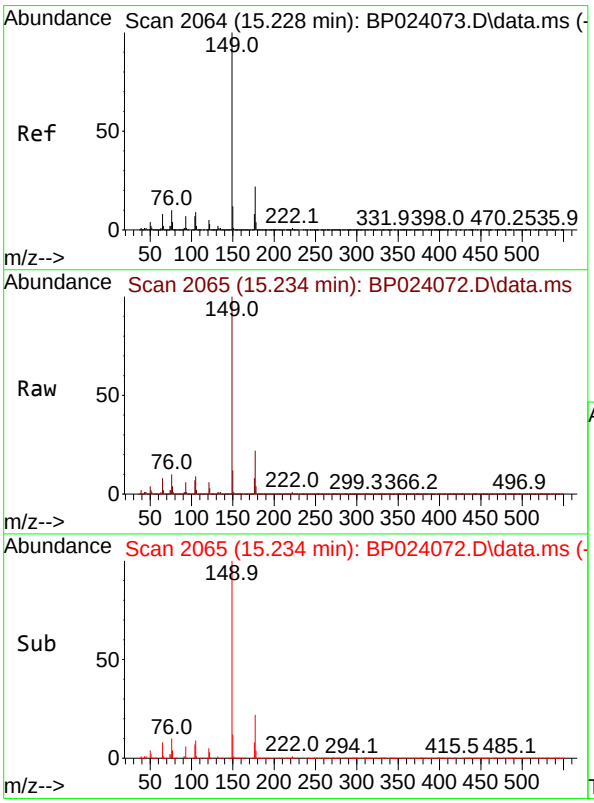
#59
2,3,4,6-Tetrachlorophenol
Concen: 19.861 ng
RT: 15.028 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 328728

Ion	Ratio	Lower	Upper
232	100		
131	47.2	37.3	55.9
130	2.5	1.9	2.9
166	31.5	24.6	36.8

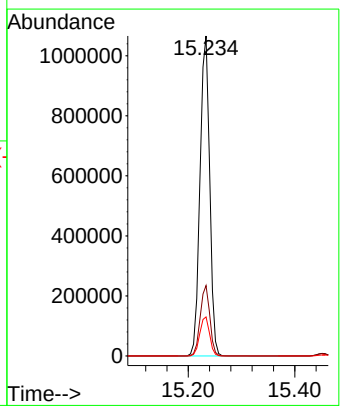


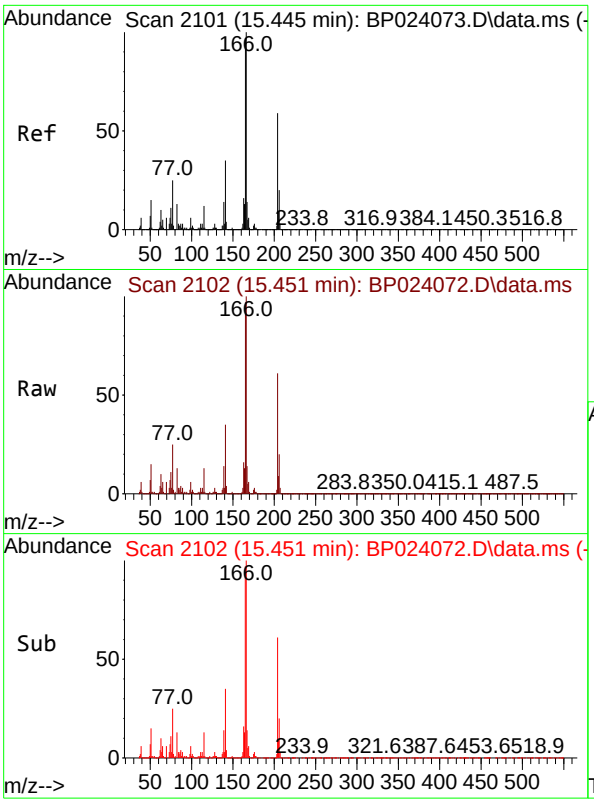


#60
Diethylphthalate
Concen: 20.552 ng
RT: 15.234 min Scan# 2065
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:149 Resp: 1339709

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.9	26.9
150	12.2	9.8	14.6



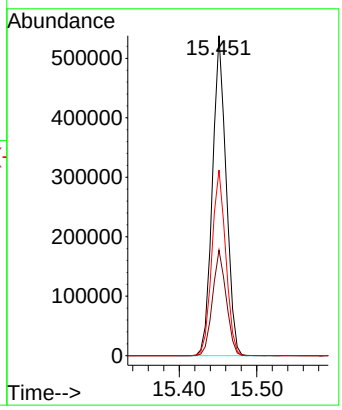


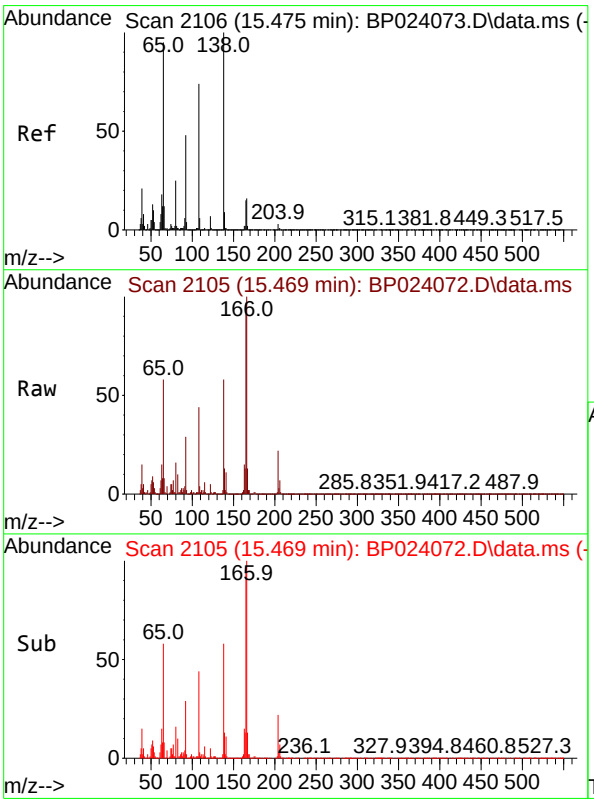
#61
4-Chlorophenyl-phenylether
Concen: 20.416 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 661448

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.6	39.8
141	58.0	47.8	71.6

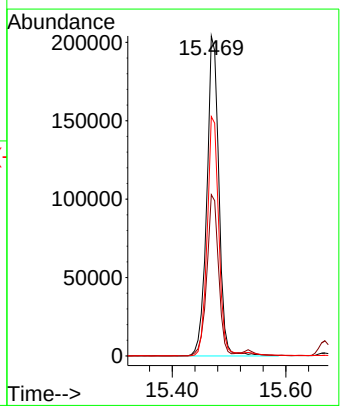


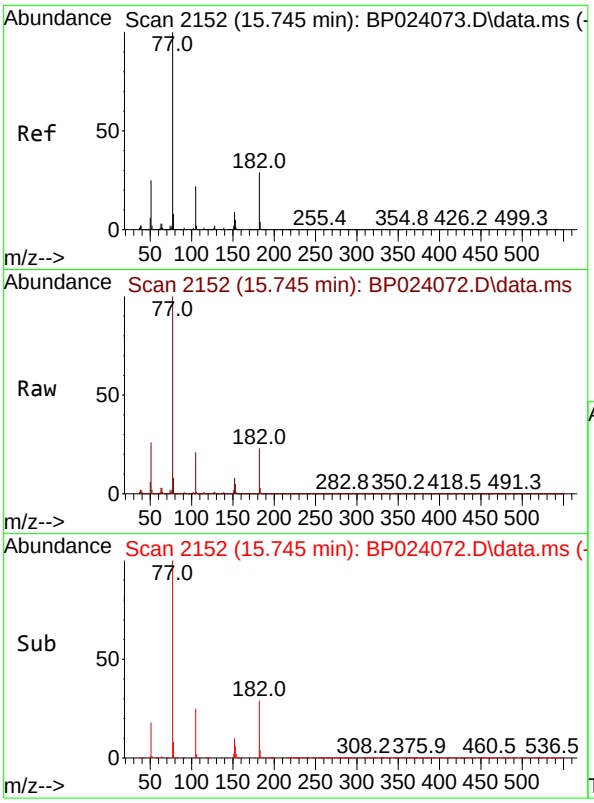


#62
4-Nitroaniline
Concen: 19.811 ng
RT: 15.469 min Scan# 2105
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:138 Resp: 299742

Ion	Ratio	Lower	Upper
138	100		
92	50.4	28.3	68.3
108	74.8	54.0	94.0



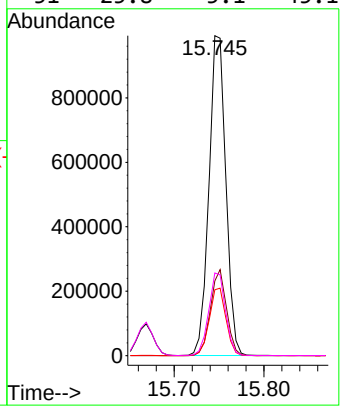


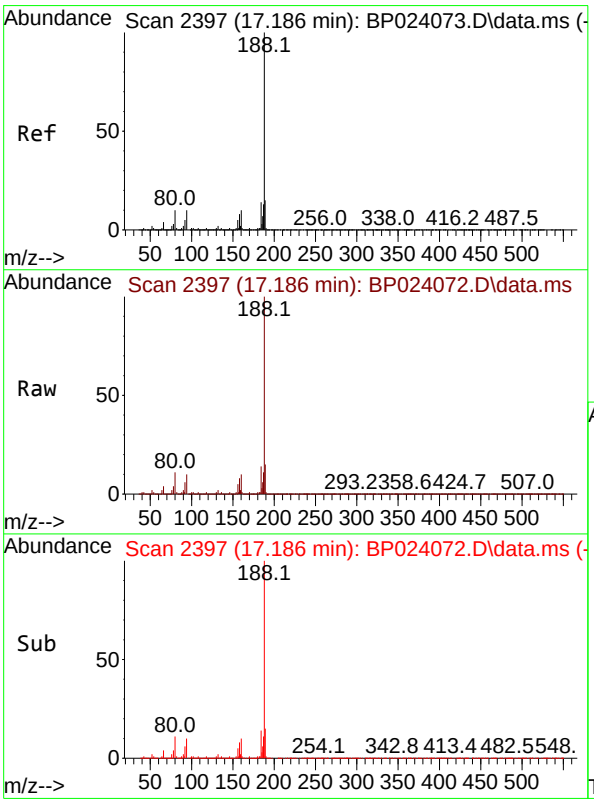
#63
Azobenzene
Concen: 21.238 ng
RT: 15.745 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 1297292

Ion	Ratio	Lower	Upper
77	100		
182	23.4	8.5	48.5
105	20.6	1.8	41.8
51	25.8	5.1	45.1

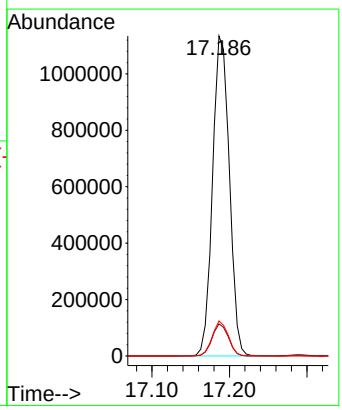


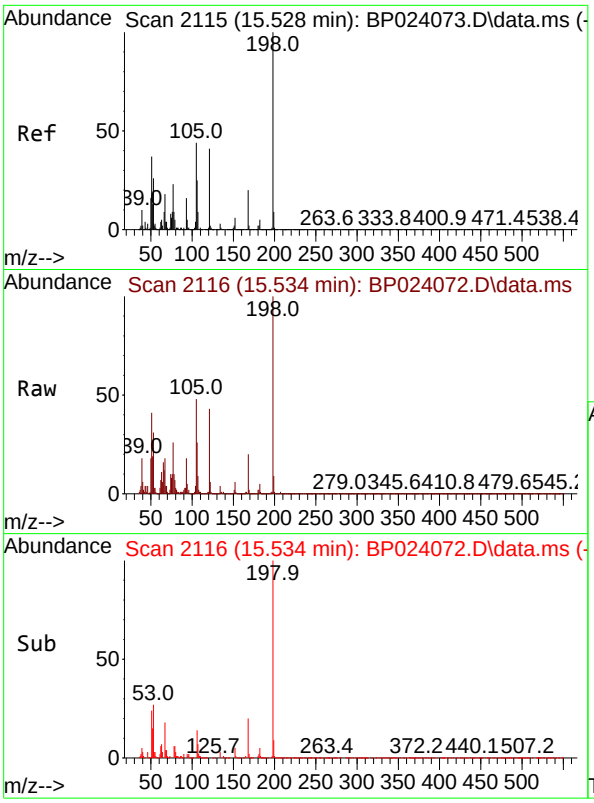


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.186 min Scan# 2397
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:188 Resp: 1706072

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.6	11.4
80	10.9	8.2	12.2



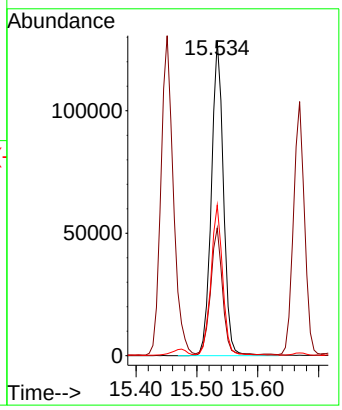


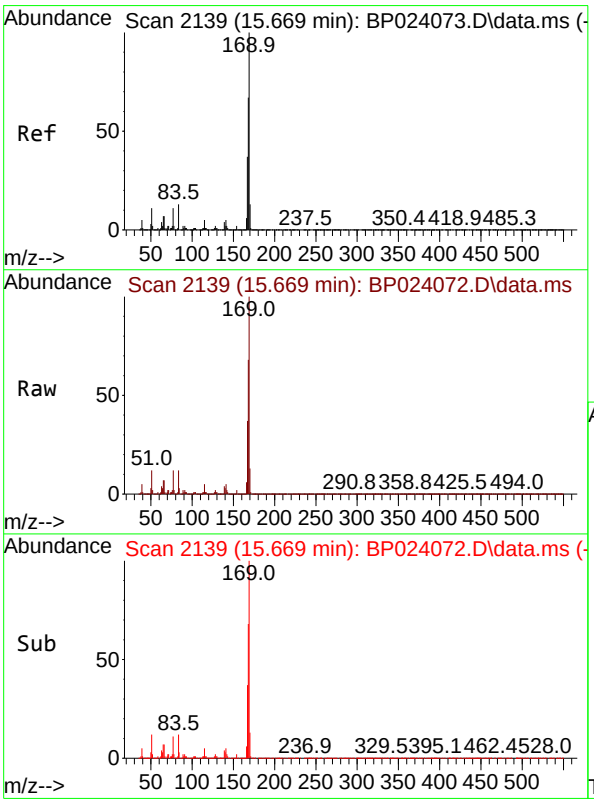
#65
4,6-Dinitro-2-methylphenol
Concen: 20.128 ng
RT: 15.534 min Scan# 21
Delta R.T. 0.005 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 176878

Ion	Ratio	Lower	Upper
198	100		
51	40.5	18.7	58.7
105	47.8	24.7	64.7

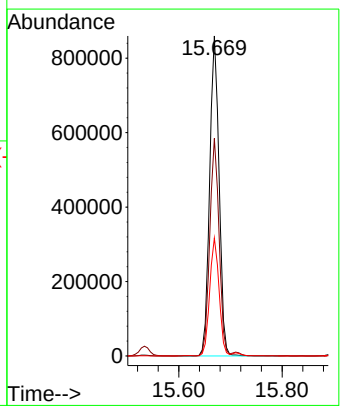


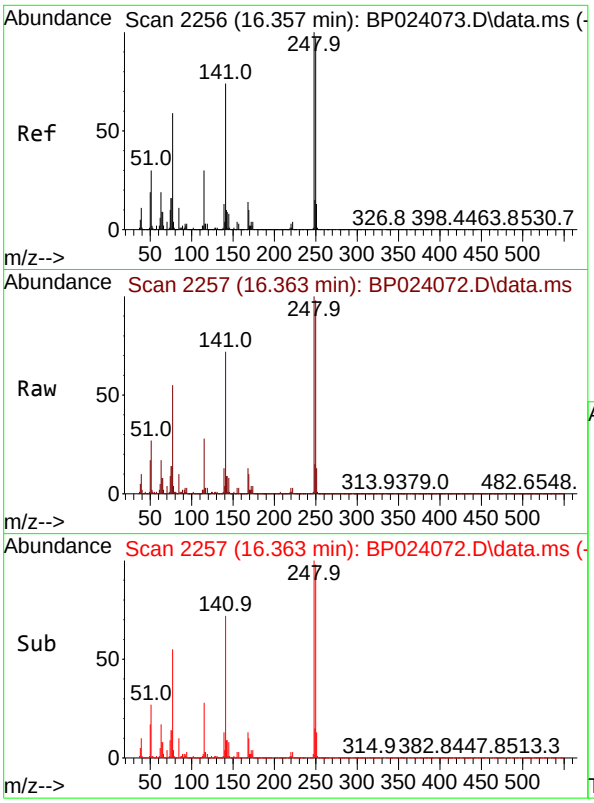


#66
n-Nitrosodiphenylamine
Concen: 20.476 ng
RT: 15.669 min Scan# 2139
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:169 Resp: 1089389

Ion	Ratio	Lower	Upper
169	100		
168	68.0	53.6	80.4
167	36.8	29.5	44.3



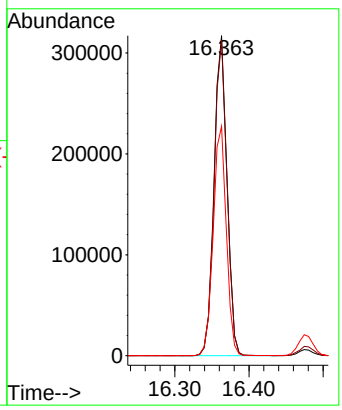


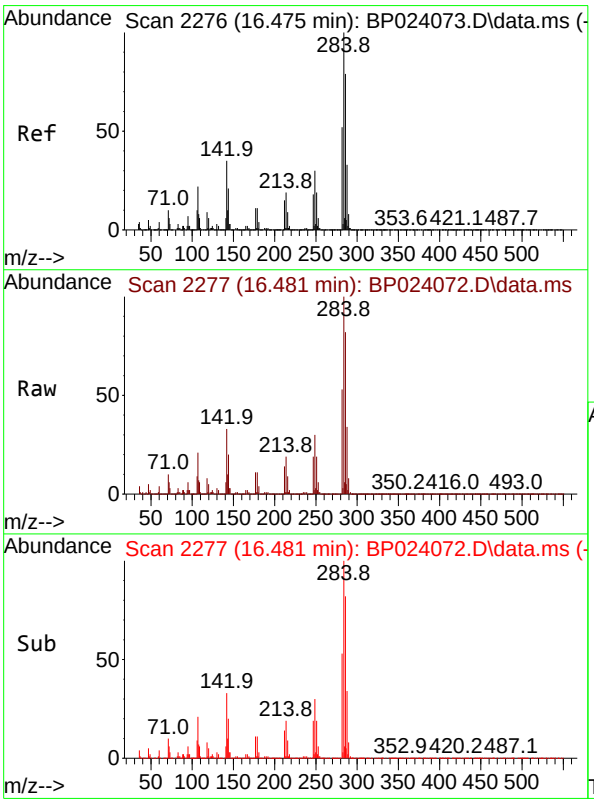
#67
4-Bromophenyl-phenylether
Concen: 20.077 ng
RT: 16.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 384639

Ion	Ratio	Lower	Upper
248	100		
250	98.5	77.9	116.9
141	71.7	58.8	88.2

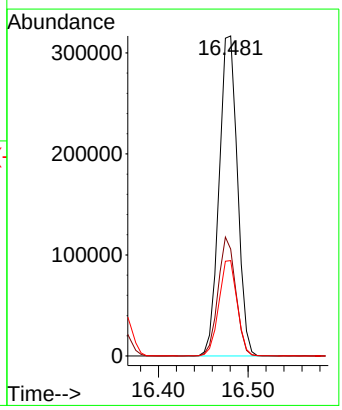


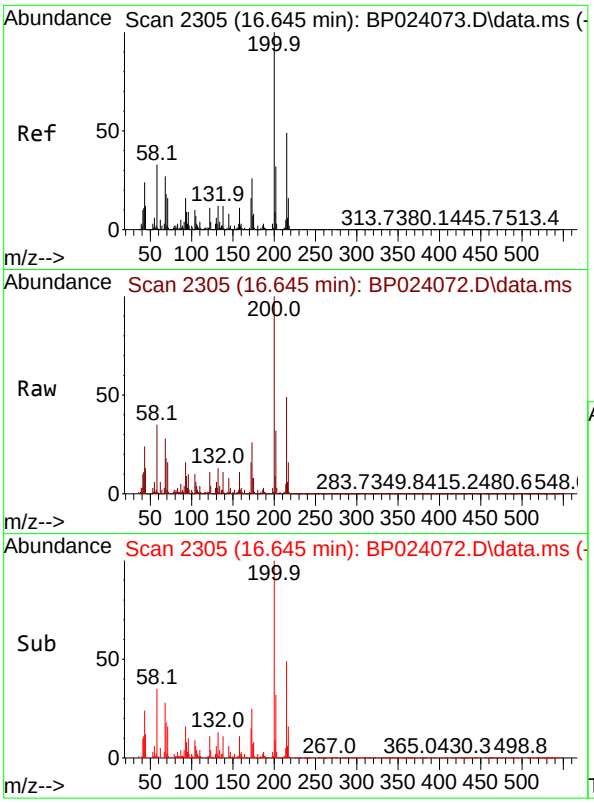


#68
Hexachlorobenzene
Concen: 19.869 ng
RT: 16.481 min Scan# 2277
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:284 Resp: 447915

Ion	Ratio	Lower	Upper
284	100		
142	33.4	27.7	41.5
249	29.8	23.8	35.6



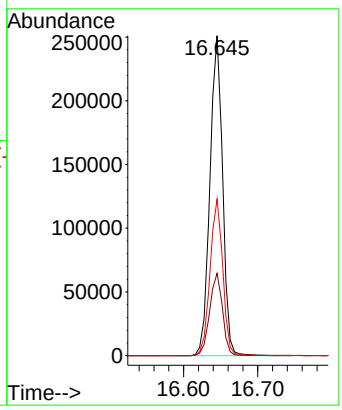


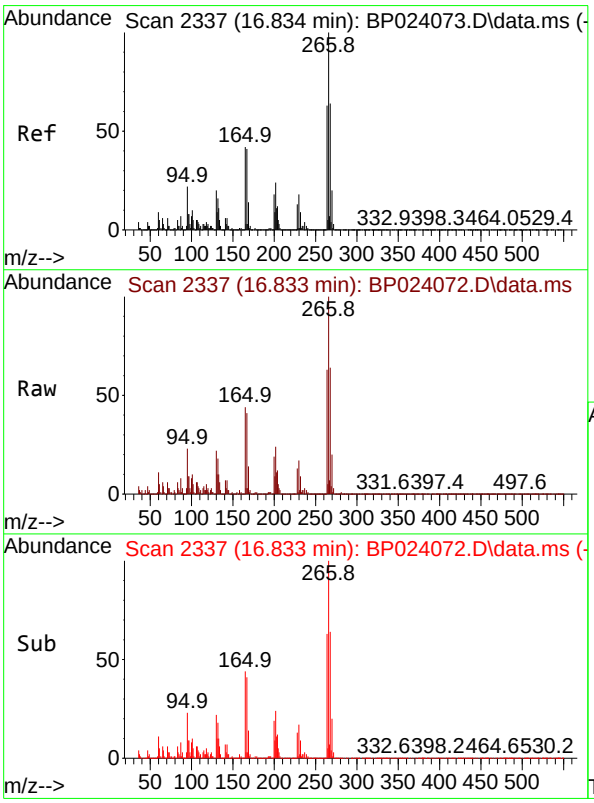
#69
Atrazine
Concen: 21.831 ng
RT: 16.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 298071

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.7	45.7
215	48.9	28.7	68.7

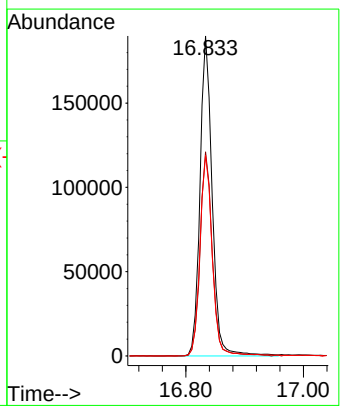


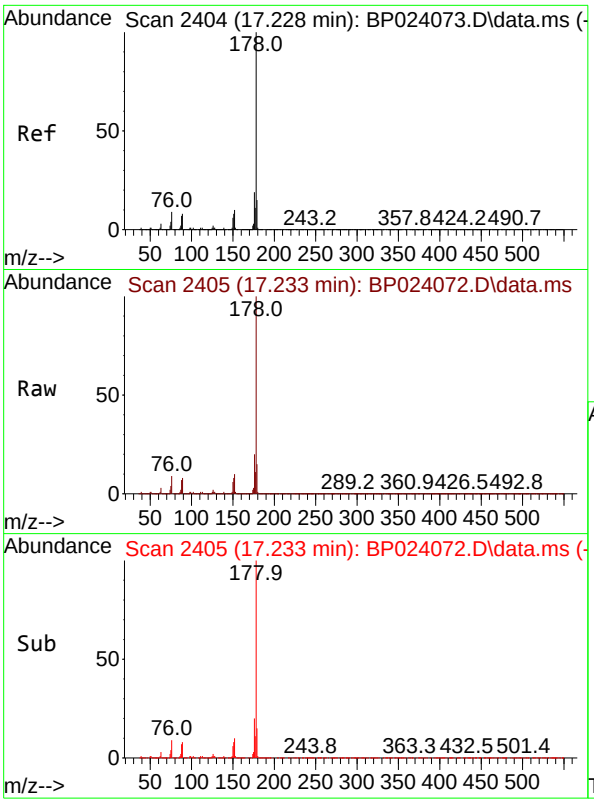


#70
Pentachlorophenol
Concen: 18.574 ng
RT: 16.833 min Scan# 2337
Delta R.T. -0.001 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:266 Resp: 271947

Ion	Ratio	Lower	Upper
266	100		
268	63.8	51.3	76.9
264	62.8	50.5	75.7



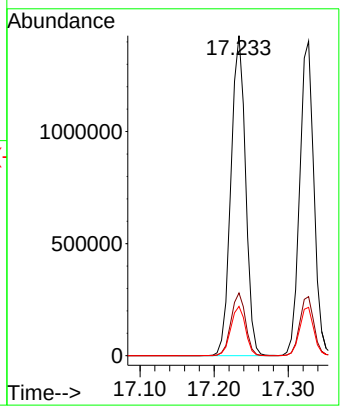


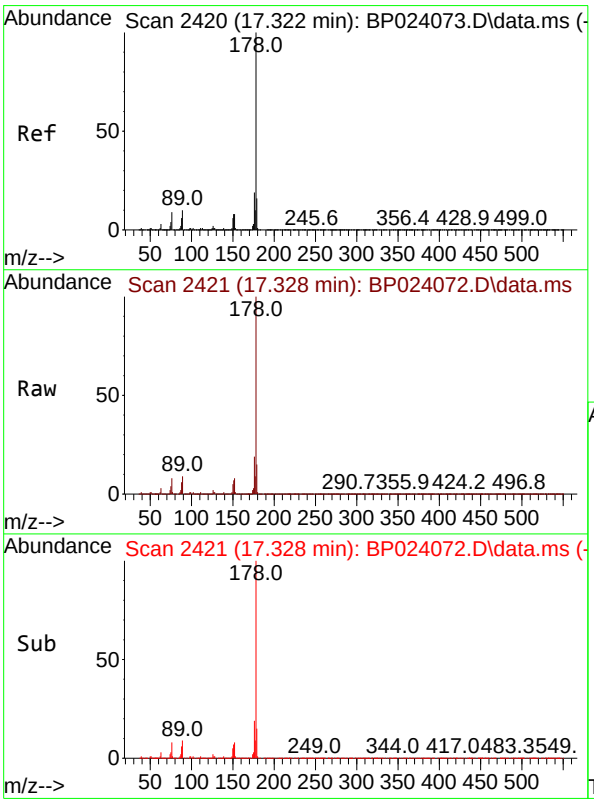
#71
Phenanthrene
Concen: 20.333 ng
RT: 17.233 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 1955736

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.4	12.4	18.6

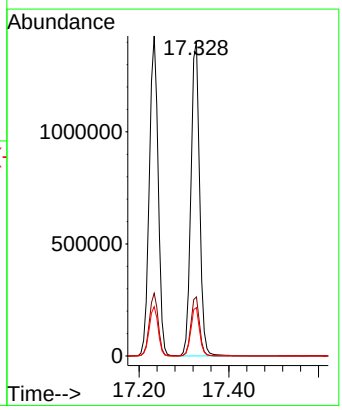


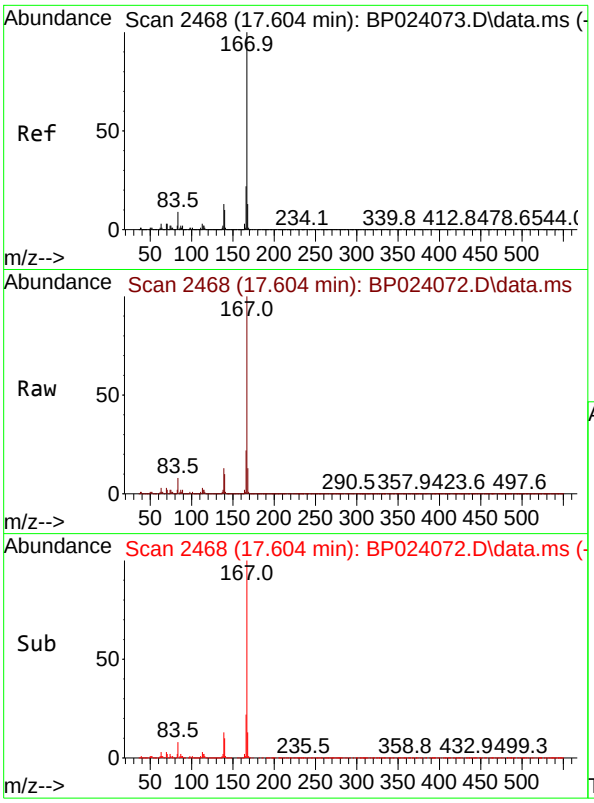


#72
Anthracene
Concen: 20.419 ng
RT: 17.328 min Scan# 2421
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:178 Resp: 1882122

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.4	23.0
179	15.4	12.6	19.0



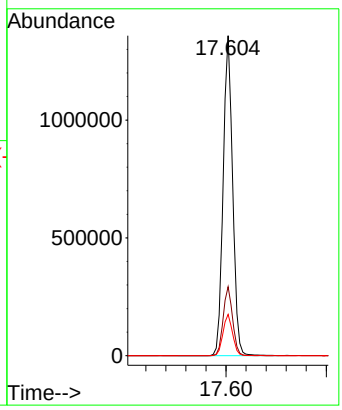


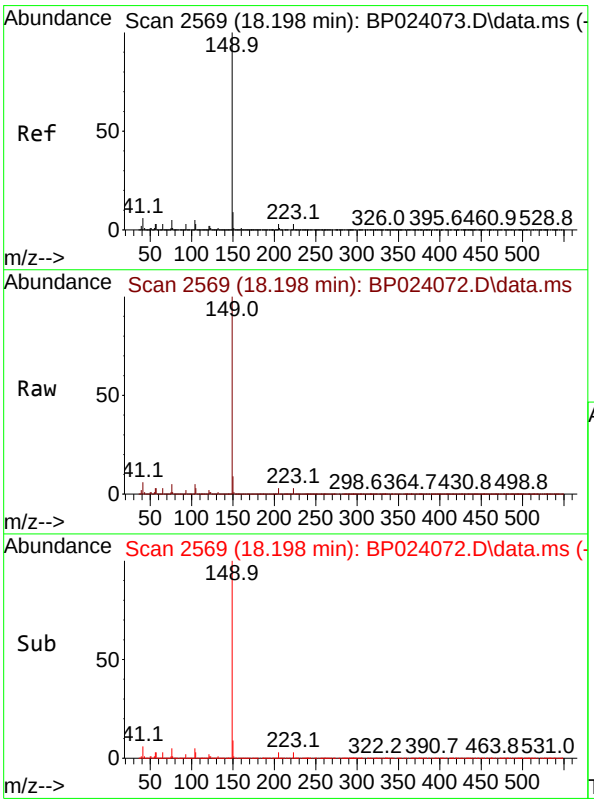
#73
Carbazole
Concen: 20.317 ng
RT: 17.604 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 1784273

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.9	10.3	15.5

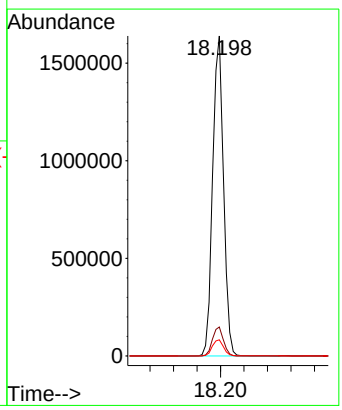


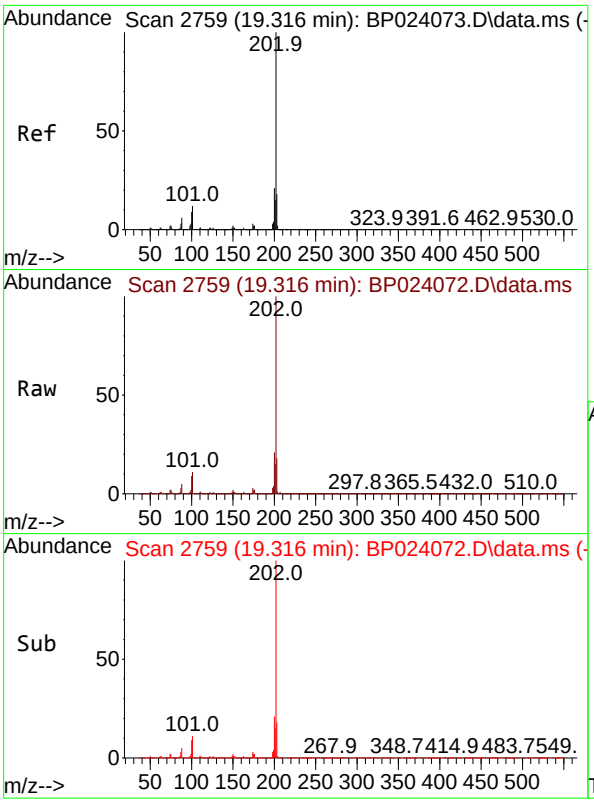


#74
Di-n-butylphthalate
Concen: 20.499 ng
RT: 18.198 min Scan# 2569
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:149 Resp: 2100553

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	5.0	4.2	6.2



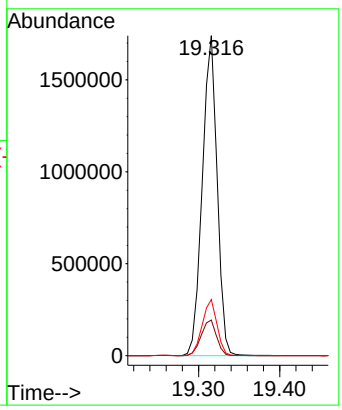


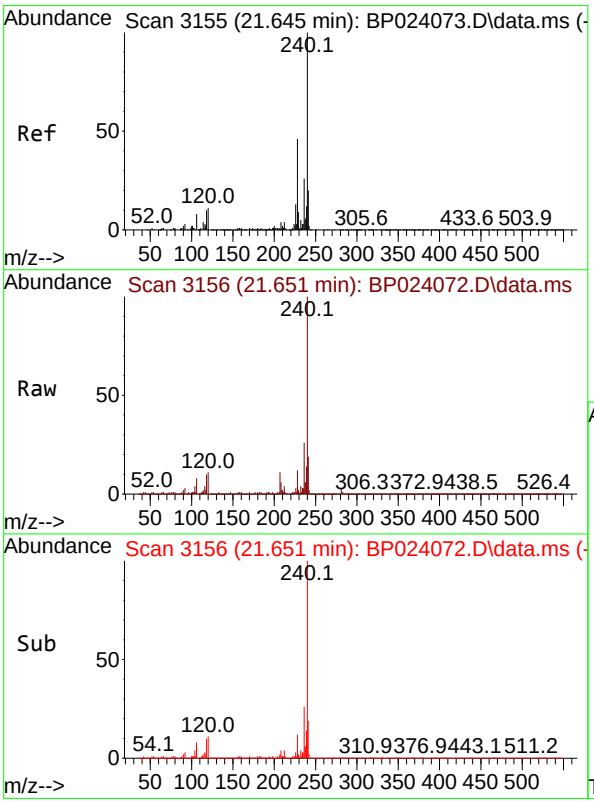
#75
Fluoranthene
Concen: 20.233 ng
RT: 19.316 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 2201283

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.9
203	17.5	0.0	37.7

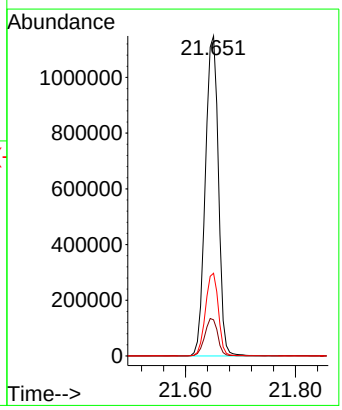


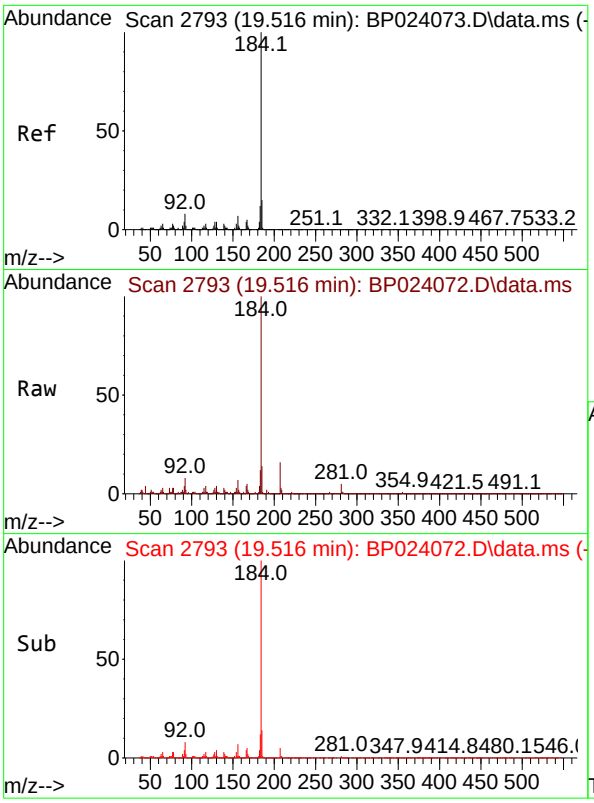


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.651 min Scan# 3156
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:240 Resp: 1892411

Ion	Ratio	Lower	Upper
240	100		
120	11.3	8.9	13.3
236	25.8	20.7	31.1



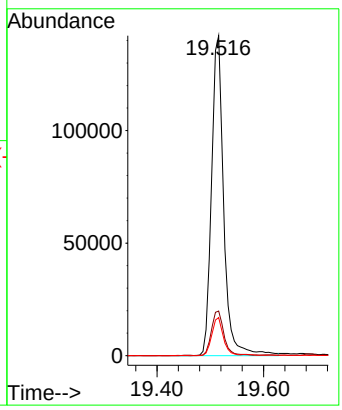


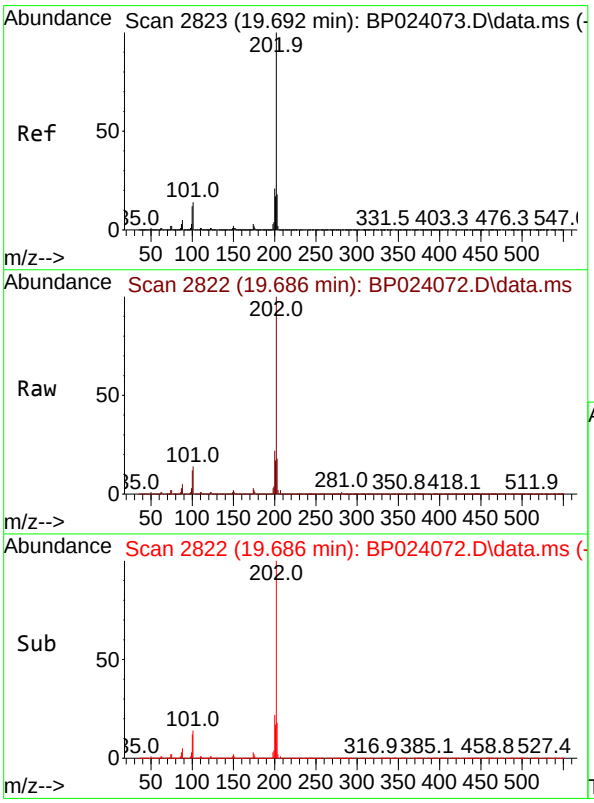
#77
Benzidine
Concen: 9.786 ng
RT: 19.516 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 225673

Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.8	17.8
183	11.9	9.3	13.9

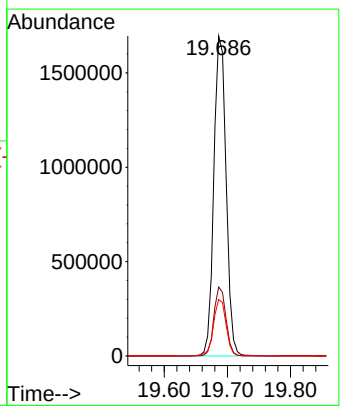


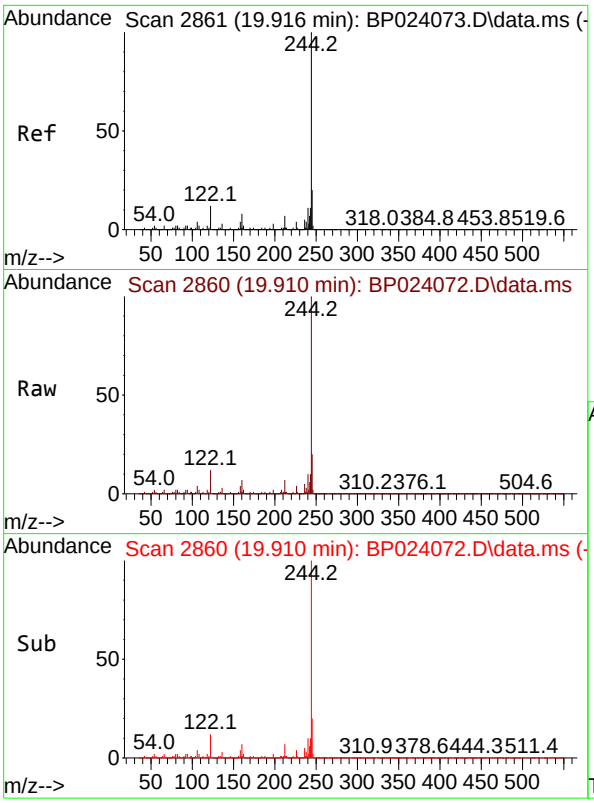


#78
Pyrene
Concen: 19.011 ng
RT: 19.686 min Scan# 2822
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:202 Resp: 2285228

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.2	25.8
203	17.6	14.4	21.6



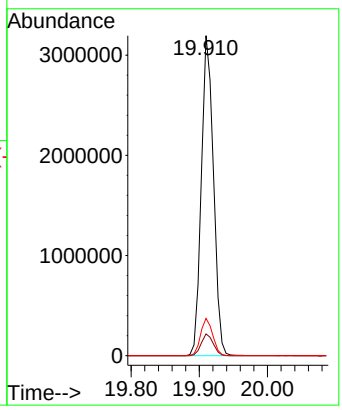


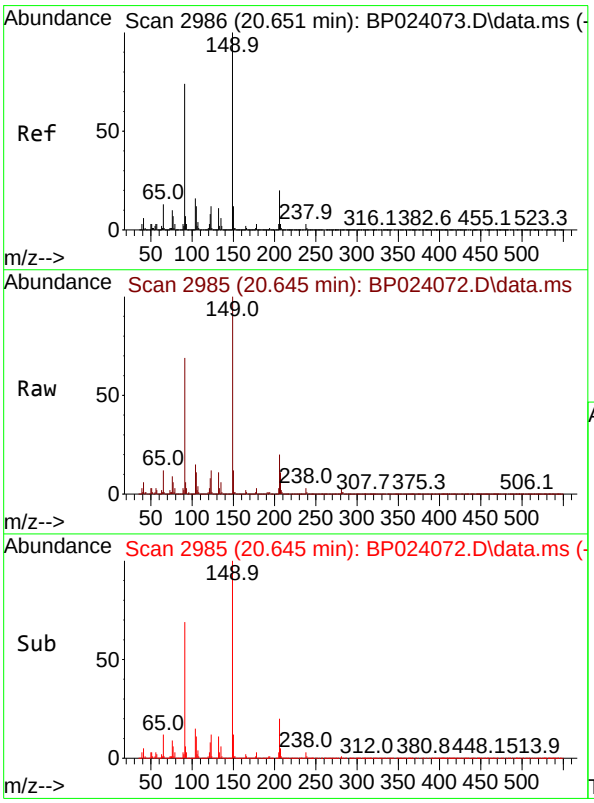
#79
Terphenyl-d14
Concen: 41.416 ng
RT: 19.910 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 3960879

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.9	8.9
122	11.7	9.4	14.2

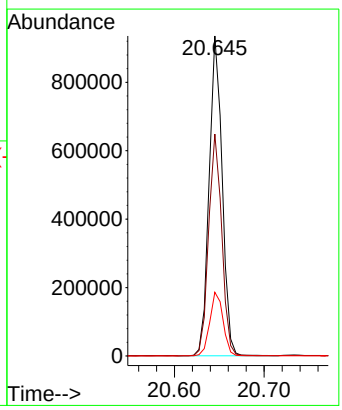


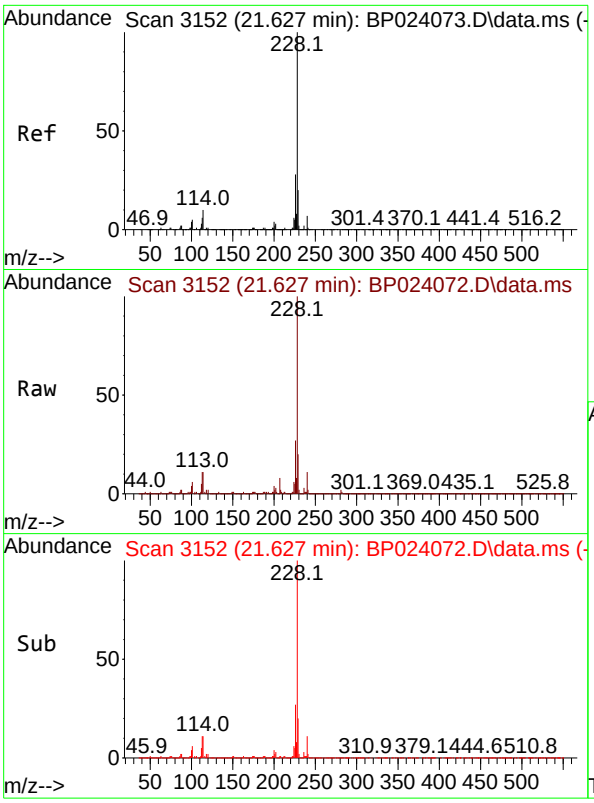


#80
Butylbenzylphthalate
Concen: 20.447 ng
RT: 20.645 min Scan# 2985
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:149 Resp: 941827

Ion	Ratio	Lower	Upper
149	100		
91	69.4	59.4	89.0
206	19.9	16.2	24.2



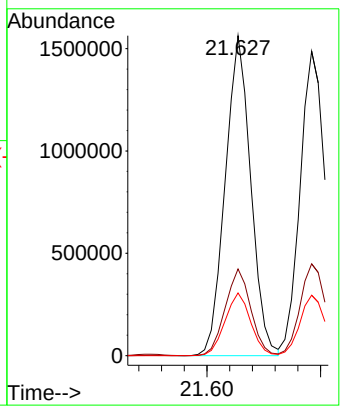


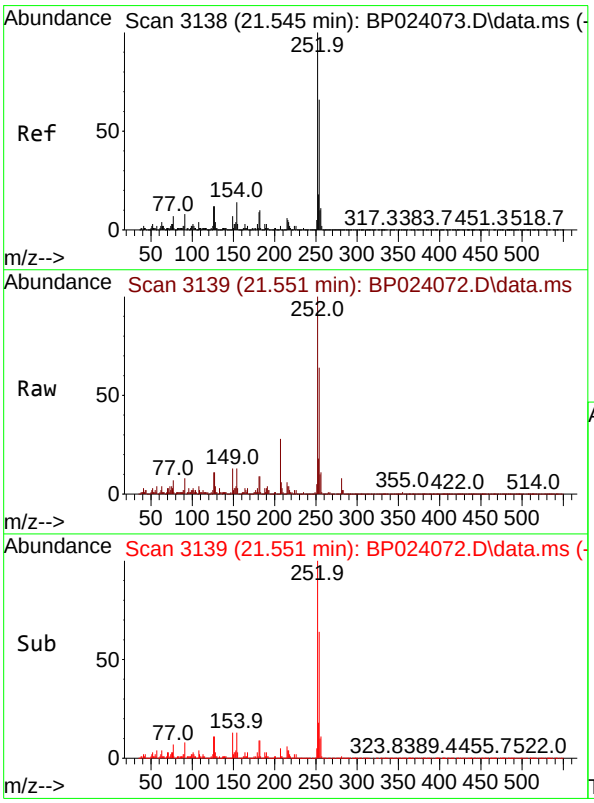
#81
Benzo(a)anthracene
Concen: 20.534 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 2436640

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.4
229	19.6	15.8	23.8

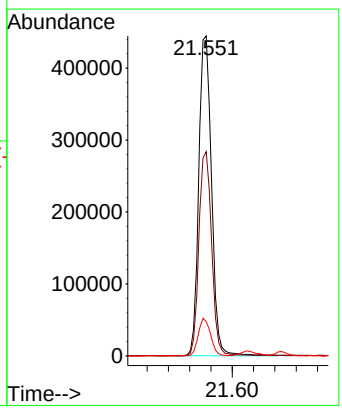


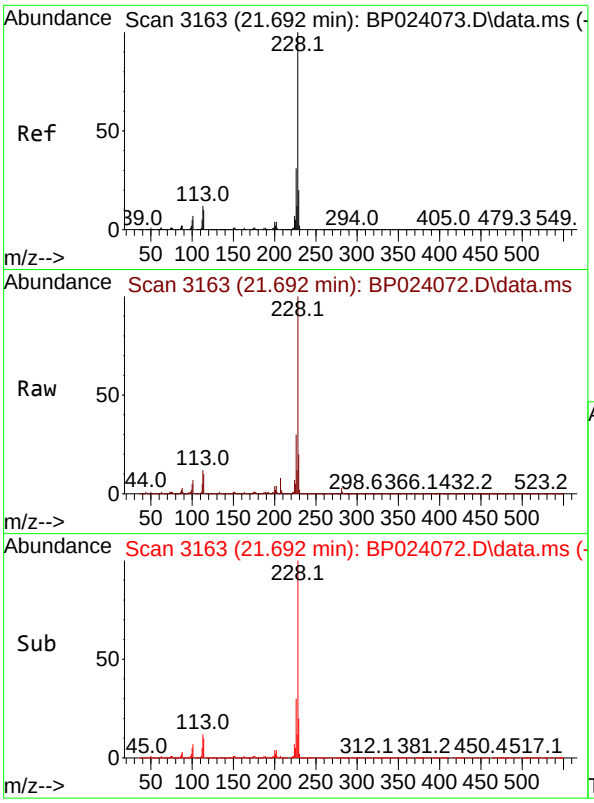


#82
3,3'-Dichlorobenzidine
Concen: 19.877 ng
RT: 21.551 min Scan# 3139
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:252 Resp: 737056

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.4	78.6
126	10.7	9.6	14.4



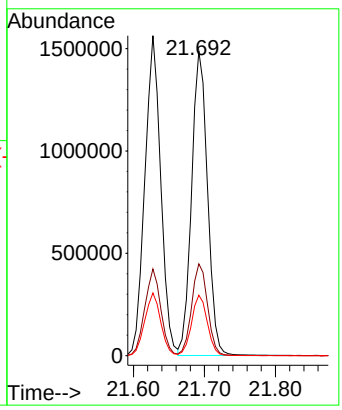


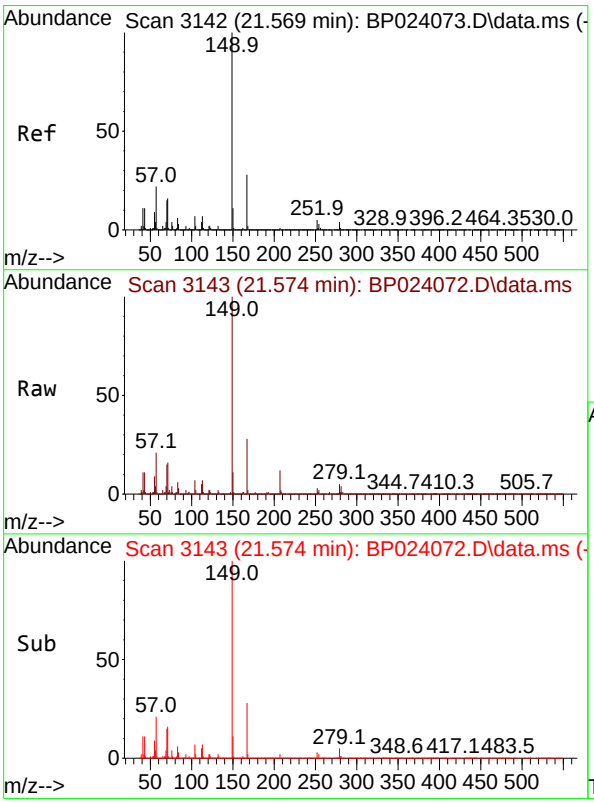
#83
Chrysene
Concen: 20.263 ng
RT: 21.692 min Scan# 31
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 2318584

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.5	36.7
229	19.9	16.1	24.1

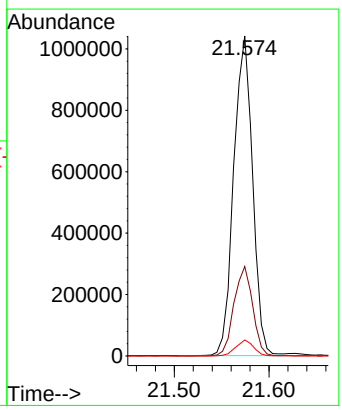


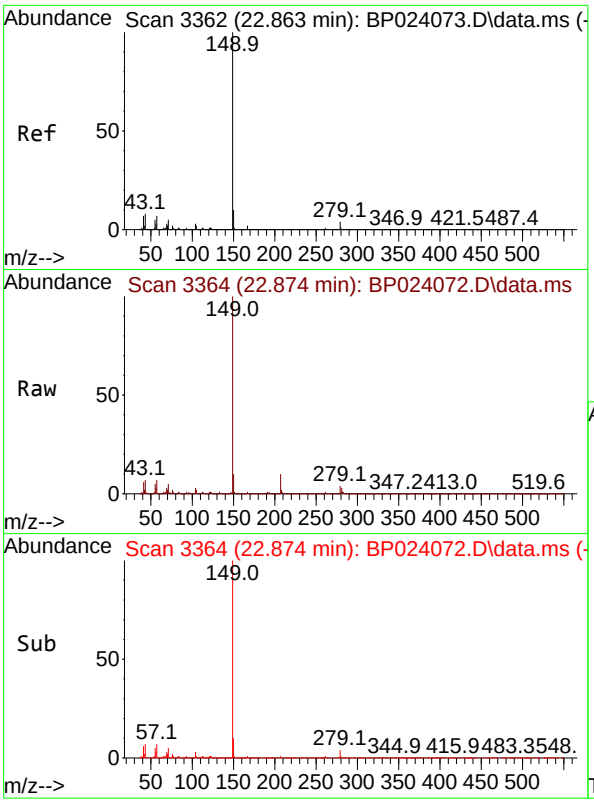


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.576 ng
RT: 21.574 min Scan# 3143
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:149 Resp: 1437216

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.2	33.2
279	5.0	3.6	5.4



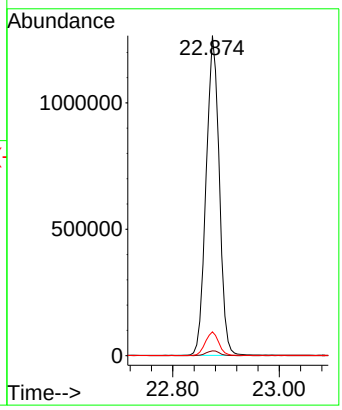


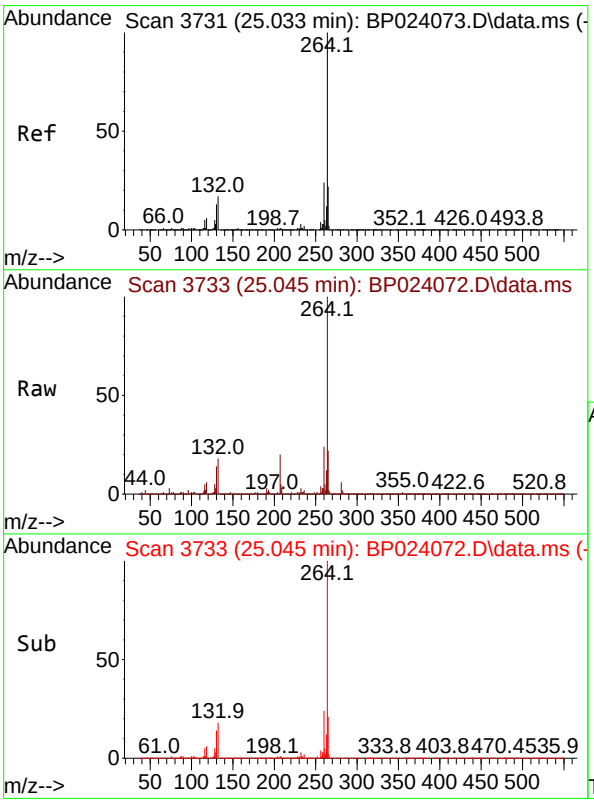
#85
Di-n-octyl phthalate
Concen: 19.462 ng
RT: 22.874 min Scan# 3
Delta R.T. 0.011 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 2172948

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	7.6	6.4	9.6

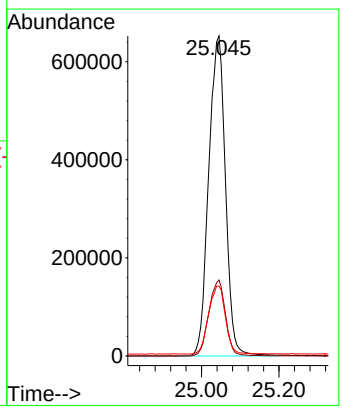


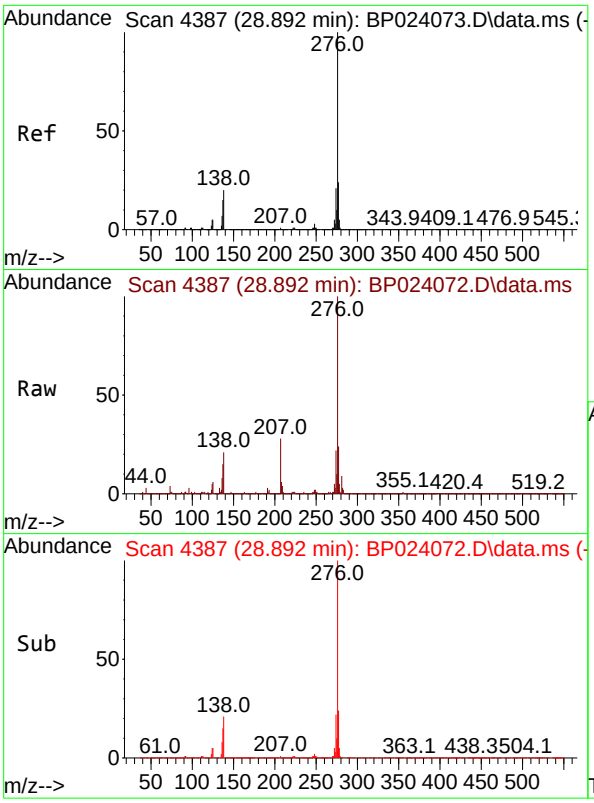


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.045 min Scan# 3733
Delta R.T. 0.012 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:264 Resp: 1956299

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.0	28.6
265	21.8	17.8	26.8



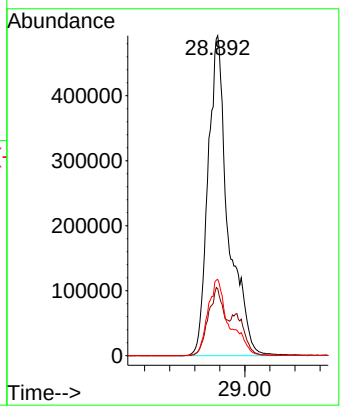


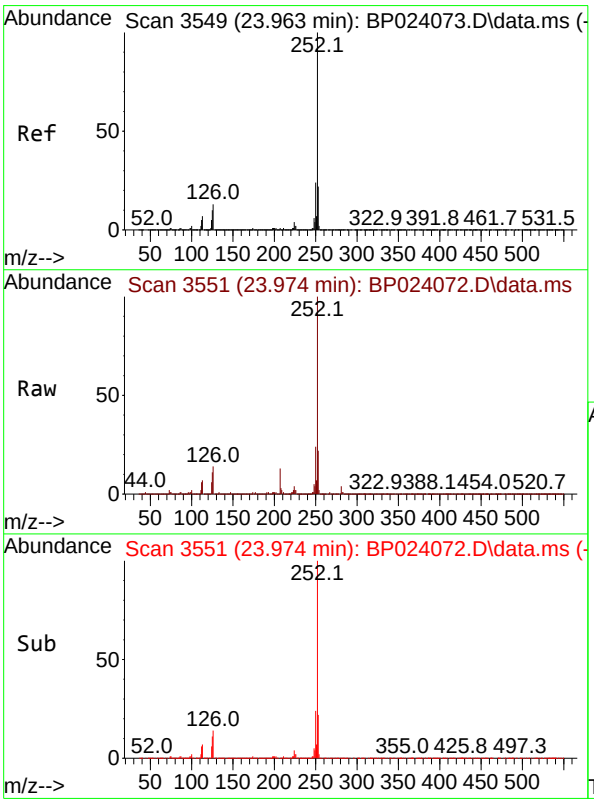
#87
Indeno(1,2,3-cd)pyrene
Concen: 19.787 ng
RT: 28.892 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 2755086

Ion	Ratio	Lower	Upper
276	100		
138	17.4	14.2	21.4
277	25.1	16.2	24.4#

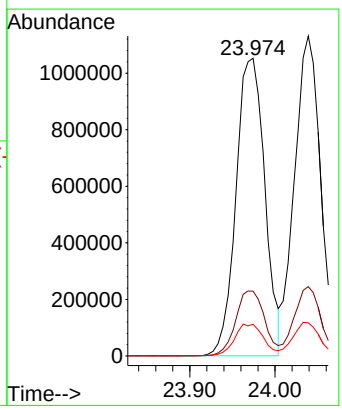


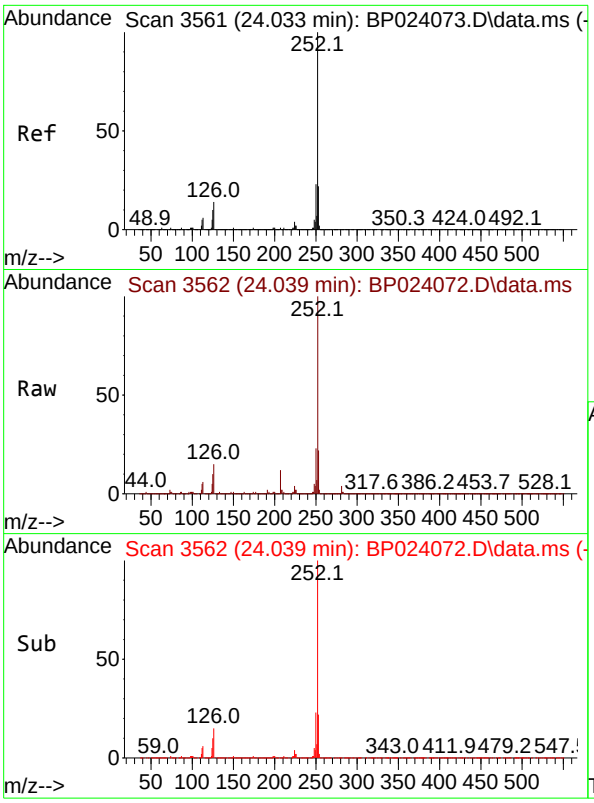


#88
Benzo(b)fluoranthene
Concen: 19.904 ng
RT: 23.974 min Scan# 3551
Delta R.T. 0.012 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:252 Resp: 2472738

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	10.6	8.4	12.6



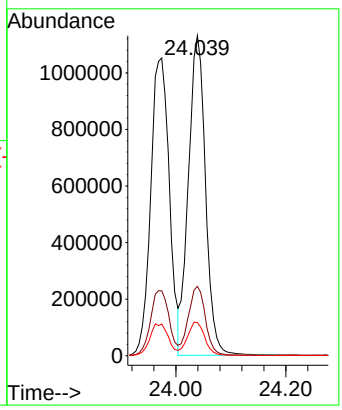


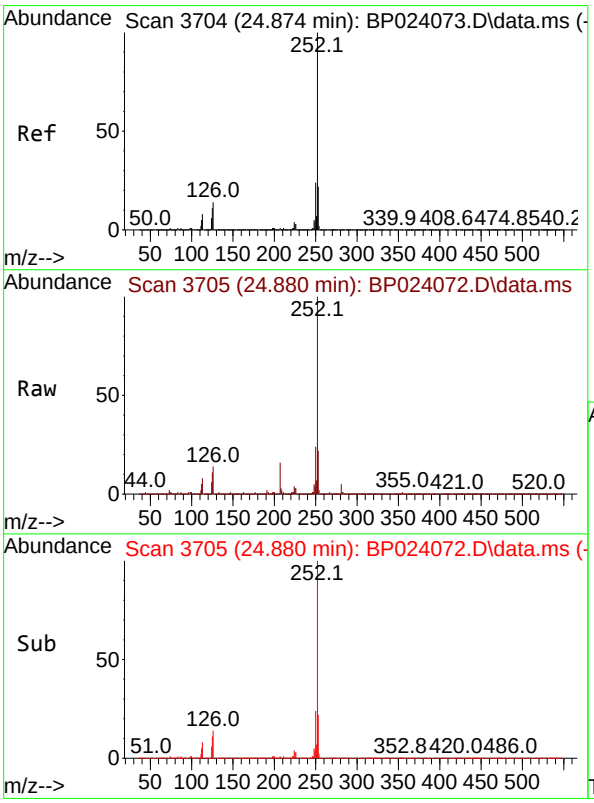
#89
Benzo(k)fluoranthene
Concen: 20.178 ng
RT: 24.039 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 2439900

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	10.4	8.1	12.1

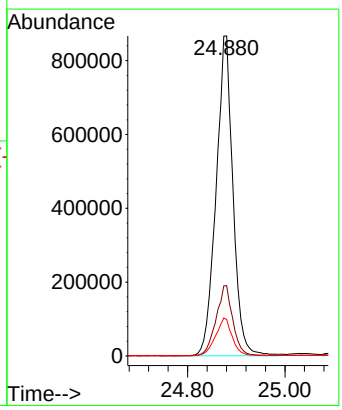


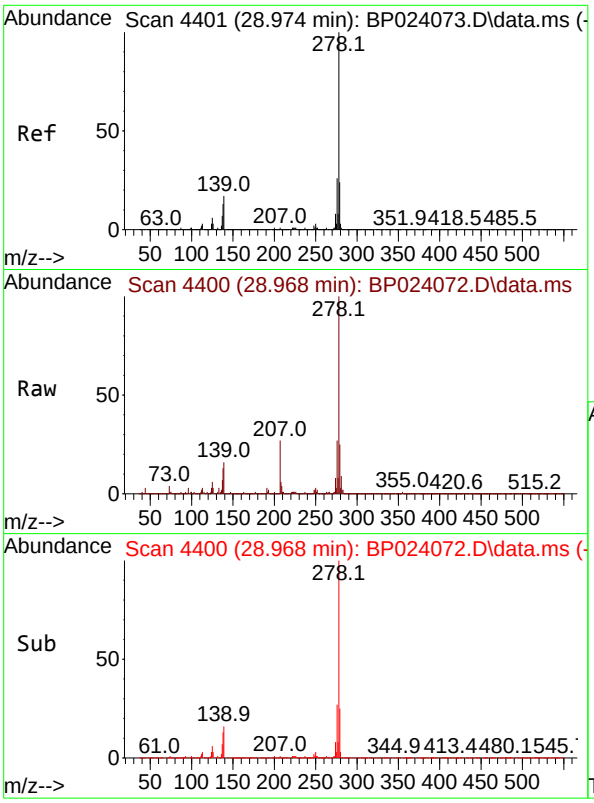


#90
Benzo(a)pyrene
Concen: 19.817 ng
RT: 24.880 min Scan# 3705
Delta R.T. 0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:252 Resp: 2089246

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	11.4	8.8	13.2



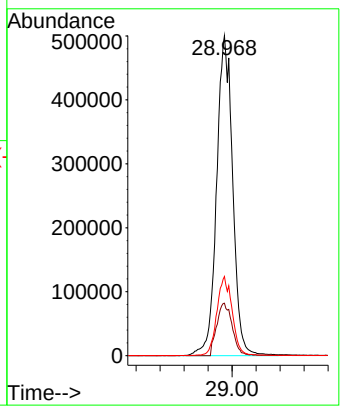


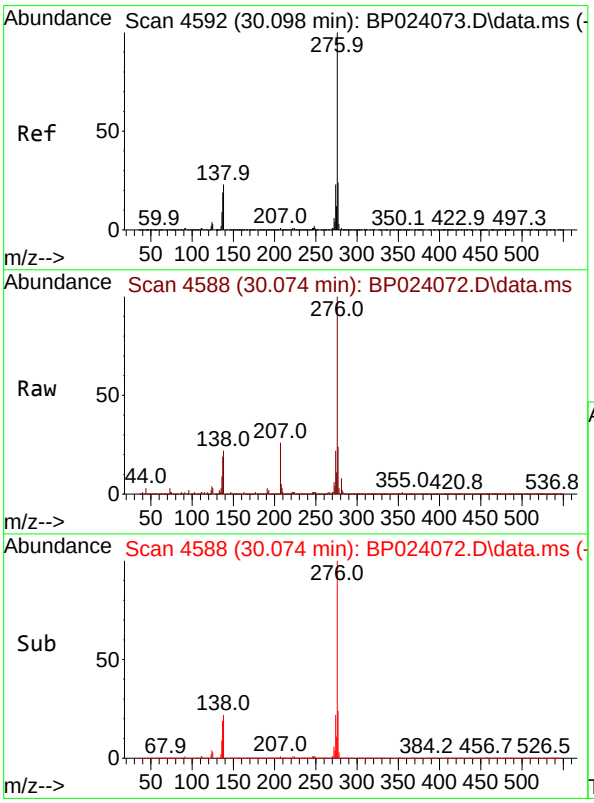
#91
Dibenzo(a,h)anthracene
Concen: 19.844 ng
RT: 28.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 2322126

Ion	Ratio	Lower	Upper
278	100		
139	16.4	13.4	20.0
279	24.7	19.0	28.4

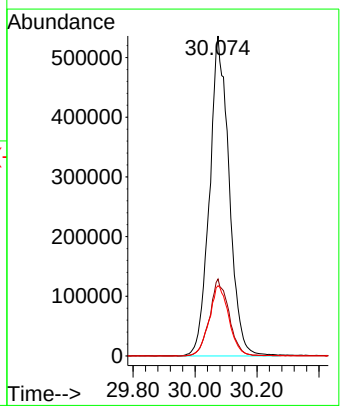




#92
Benzo(g,h,i)perylene
Concen: 19.812 ng
RT: 30.074 min Scan# 4588
Delta R.T. -0.024 min
Lab File: BP024072.D
Acq: 17 Feb 2025 13:31

Tgt Ion:276 Resp: 2352576

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	21.9	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024073.D
Acq On : 17 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Quant Time: Feb 18 02:03:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	398438	20.000	ng	0.00
21) Naphthalene-d8	10.534	136	1506661	20.000	ng	0.00
39) Acenaphthene-d10	14.393	164	817827	20.000	ng	0.00
64) Phenanthrene-d10	17.186	188	1445543	20.000	ng	0.00
76) Chrysene-d12	21.645	240	1488607	20.000	ng	0.00
86) Perylene-d12	25.033	264	1494142	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2232229	87.418	ng	0.00
7) Phenol-d6	6.946	99	2806332	85.509	ng	0.00
23) Nitrobenzene-d5	8.910	82	2302539	85.259	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	837277	83.582	ng	0.00
45) 2-Fluorobiphenyl	13.004	172	5094954	87.094	ng	0.00
79) Terphenyl-d14	19.916	244	6453934	85.790	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.317	88	424711	42.400	ng	100
3) Pyridine	3.711	79	1129810	43.337	ng	100
4) n-Nitrosodimethylamine	3.617	42	394345	42.688	ng	100
6) Aniline	7.099	93	1264446	42.070	ng	100
8) 2-Chlorophenol	7.334	128	1159071	42.885	ng	100
9) Benzaldehyde	6.911	77	614483	41.010	ng	100
10) Phenol	6.969	94	1381122	41.849	ng	100
11) bis(2-Chloroethyl)ether	7.187	93	1085320	41.754	ng	100
12) 1,3-Dichlorobenzene	7.652	146	1256714	42.326	ng	100
13) 1,4-Dichlorobenzene	7.799	146	1266997	42.195	ng	100
14) 1,2-Dichlorobenzene	8.111	146	1214013	42.128	ng	100
15) Benzyl Alcohol	7.999	79	851796	42.401	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.287	45	1042976	41.334	ng	100
17) 2-Methylphenol	8.205	107	858367	42.681	ng	100
18) Hexachloroethane	8.834	117	452348	41.830	ng	100
19) n-Nitroso-di-n-propyla...	8.558	70	743995	42.162	ng	100
20) 3+4-Methylphenols	8.528	107	1156282	42.263	ng	100
22) Acetophenone	8.575	105	1618999	41.816	ng	100
24) Nitrobenzene	8.952	77	1138713	42.843	ng	100
25) Isophorone	9.475	82	1856740	42.042	ng	100
26) 2-Nitrophenol	9.657	139	539835	44.086	ng	100
27) 2,4-Dimethylphenol	9.722	122	684382	42.578	ng	100
28) bis(2-Chloroethoxy)met...	9.952	93	1325452	41.429	ng	100
29) 2,4-Dichlorophenol	10.193	162	950804	43.345	ng	100
30) 1,2,4-Trichlorobenzene	10.399	180	1062404	42.272	ng	100
31) Naphthalene	10.587	128	3407567	42.062	ng	100
32) Benzoic acid	9.857	122	614425	38.237	ng	100
33) 4-Chloroaniline	10.693	127	1199722	42.037	ng	100
34) Hexachlorobutadiene	10.869	225	622219	42.743	ng	100
35) Caprolactam	11.481	113	271425	38.044	ng	100
36) 4-Chloro-3-methylphenol	11.828	107	958524	42.506	ng	100
37) 2-Methylnaphthalene	12.199	142	2230252	41.420	ng	100
38) 1-Methylnaphthalene	12.416	142	2166108	41.352	ng	100
40) 1,2,4,5-Tetrachloroben...	12.569	216	1103960	43.933	ng	100
41) Hexachlorocyclopentadiene	12.551	237	428075	45.781	ng	100
43) 2,4,6-Trichlorophenol	12.810	196	691454	45.121	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024073.D
Acq On : 17 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 18 02:03:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.887	196	740246	44.169	ng	100
46) 1,1'-Biphenyl	13.216	154	2666874	41.965	ng	100
47) 2-Chloronaphthalene	13.257	162	2044842	42.565	ng	100
48) 2-Nitroaniline	13.457	65	498538	43.931	ng	100
49) Acenaphthylene	14.110	152	3067503	43.339	ng	100
50) Dimethylphthalate	13.845	163	2364371	40.985	ng	100
51) 2,6-Dinitrotoluene	13.963	165	497472	42.333	ng	100
52) Acenaphthene	14.451	154	1900361	41.693	ng	100
53) 3-Nitroaniline	14.293	138	538142	42.915	ng	100
54) 2,4-Dinitrophenol	14.498	184	254928	37.484	ng	100
55) Dibenzofuran	14.793	168	3108290	41.979	ng	100
56) 4-Nitrophenol	14.616	139	452824	41.805	ng	100
57) 2,4-Dinitrotoluene	14.757	165	659343	43.192	ng	100
58) Fluorene	15.451	166	2446454	42.307	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.028	232	614495	42.261	ng	100
60) Diethylphthalate	15.228	149	2347029	40.984	ng	100
61) 4-Chlorophenyl-phenyle...	15.445	204	1189636	41.796	ng	100
62) 4-Nitroaniline	15.475	138	577898	39.548	ng	100
63) Azobenzene	15.745	77	2268918	42.281	ng	100
65) 4,6-Dinitro-2-methylph...	15.528	198	353586	39.321	ng	100
66) n-Nitrosodiphenylamine	15.669	169	1947175	43.195	ng	100
67) 4-Bromophenyl-phenylether	16.357	248	690054	42.510	ng	100
68) Hexachlorobenzene	16.475	284	803320	42.057	ng	100
69) Atrazine	16.645	200	517038	44.693	ng	100
70) Pentachlorophenol	16.834	266	517773	41.737	ng	100
71) Phenanthrene	17.228	178	3433736	42.133	ng	100
72) Anthracene	17.322	178	3388185	43.383	ng	100
73) Carbazole	17.604	167	3208605	43.120	ng	100
74) Di-n-butylphthalate	18.198	149	3720458	42.850	ng	100
75) Fluoranthene	19.316	202	3855922	41.830	ng	100
77) Benzidine	19.516	184	1062729	58.586	ng	100
78) Pyrene	19.692	202	4085840	43.211	ng	100
80) Butylbenzylphthalate	20.651	149	1498674	41.362	ng	100
81) Benzo(a)anthracene	21.627	228	3910920	41.898	ng	100
82) 3,3'-Dichlorobenzidine	21.545	252	1291245	44.269	ng	100
83) Chrysene	21.692	228	3792933	42.140	ng	100
84) Bis(2-ethylhexyl)phtha...	21.569	149	2320794	42.238	ng	100
85) Di-n-octyl phthalate	22.863	149	3454162	39.330	ng	100
87) Indeno(1,2,3-cd)pyrene	28.892	276	4731880m	44.495	ng	
88) Benzo(b)fluoranthene	23.963	252	4074090	42.938	ng	100
89) Benzo(k)fluoranthene	24.033	252	3999830	43.310	ng	100
90) Benzo(a)pyrene	24.874	252	3517674	43.686	ng	100
91) Dibenzo(a,h)anthracene	28.974	278	3976417	44.491	ng	100
92) Benzo(g,h,i)perylene	30.098	276	4055870	44.721	ng	100

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

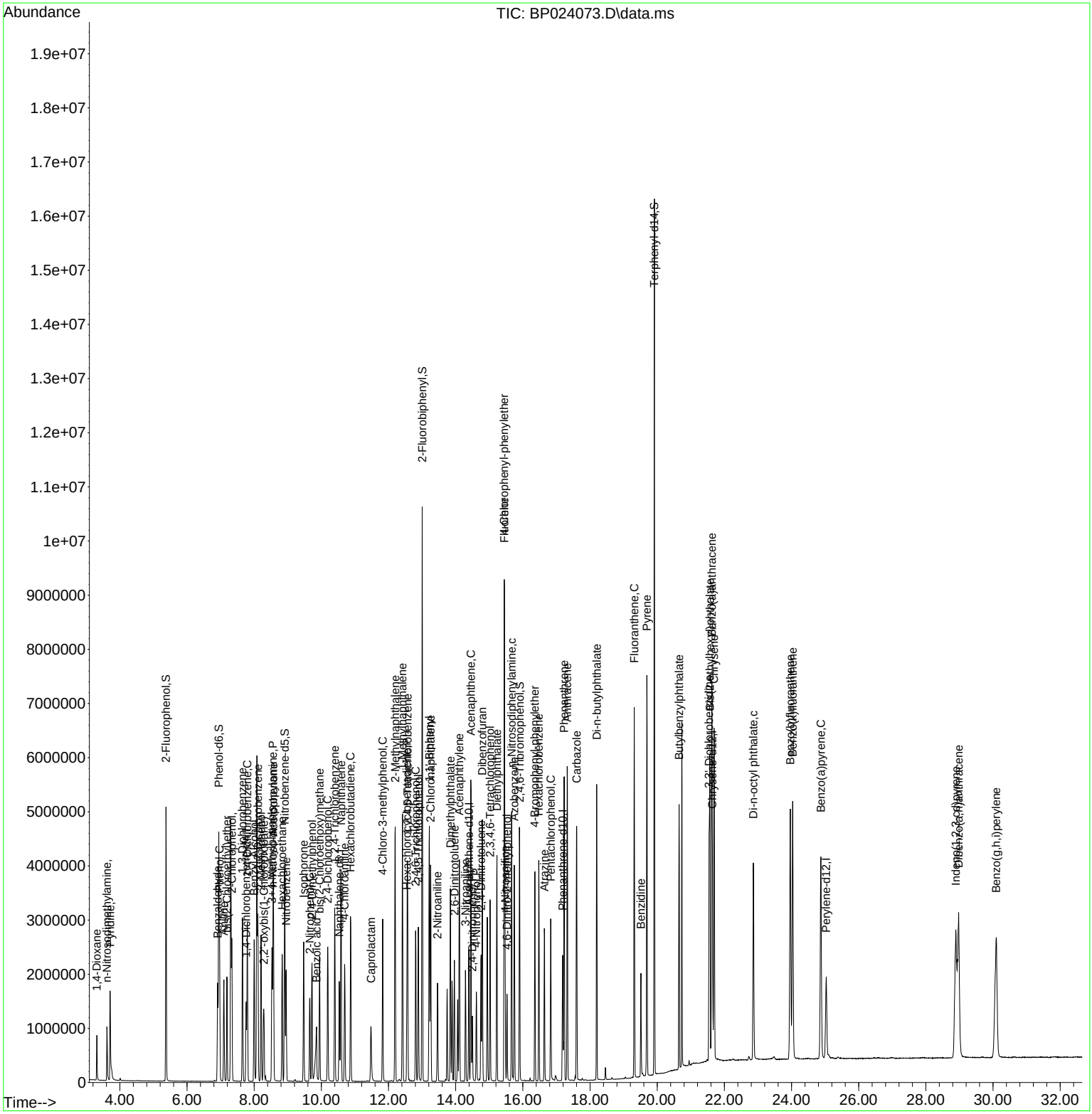
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024073.D
Acq On : 17 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

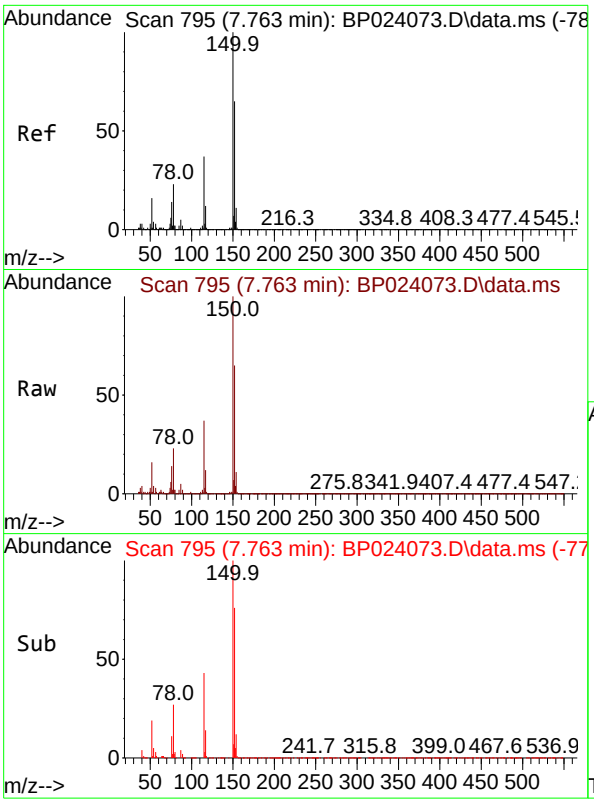
Quant Time: Feb 18 02:03:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

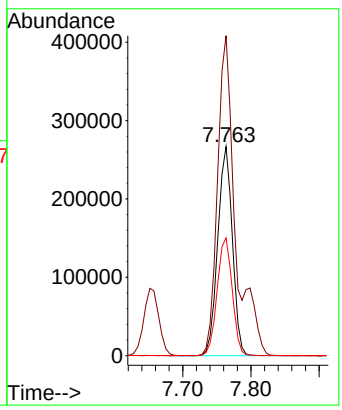




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:152 Resp: 39843

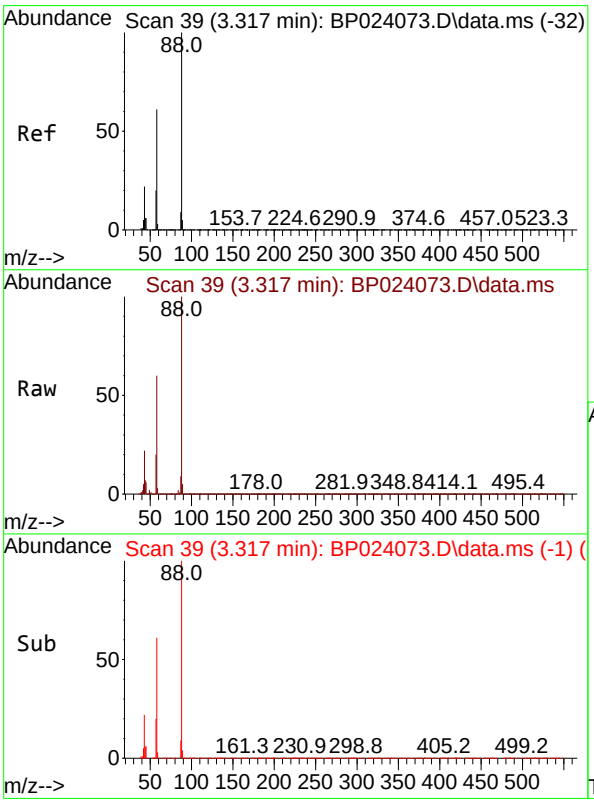
Ion	Ratio	Lower	Upper
152	100		
150	153.0	122.4	183.6
115	56.3	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

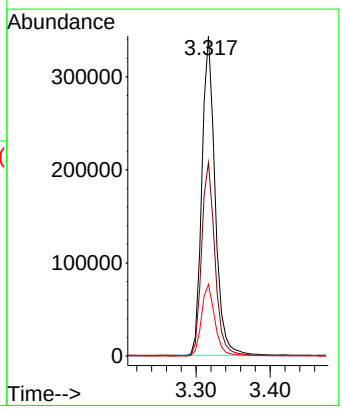
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

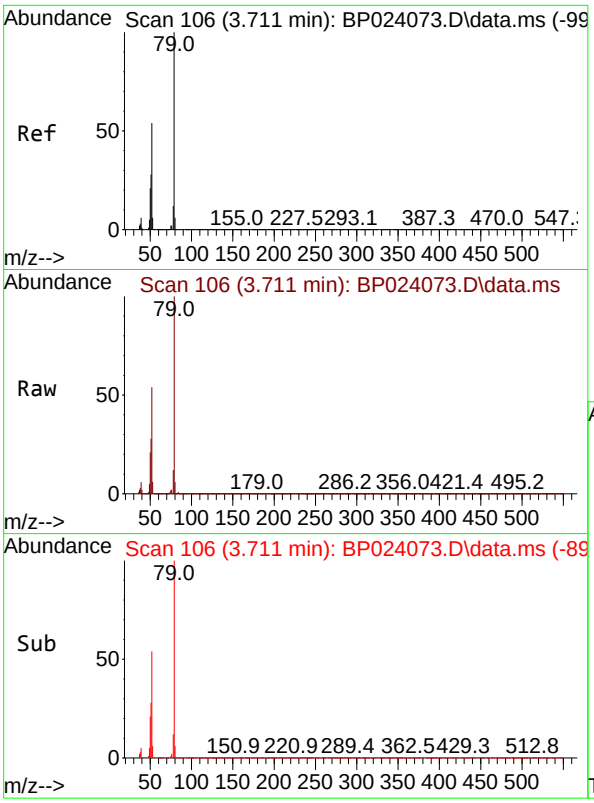


#2
1,4-Dioxane
Concen: 42.400 ng
RT: 3.317 min Scan# 39
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 88 Resp: 424711

Ion	Ratio	Lower	Upper
88	100		
58	61.4	49.1	73.7
43	22.5	18.0	27.0

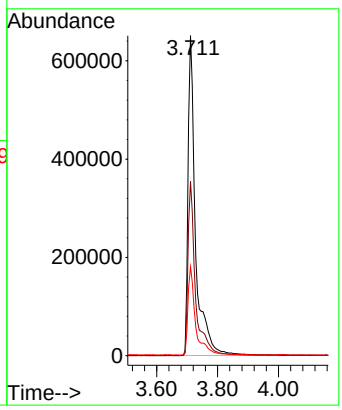




#3
Pyridine
Concen: 43.337 ng
RT: 3.711 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 79 Resp: 112981

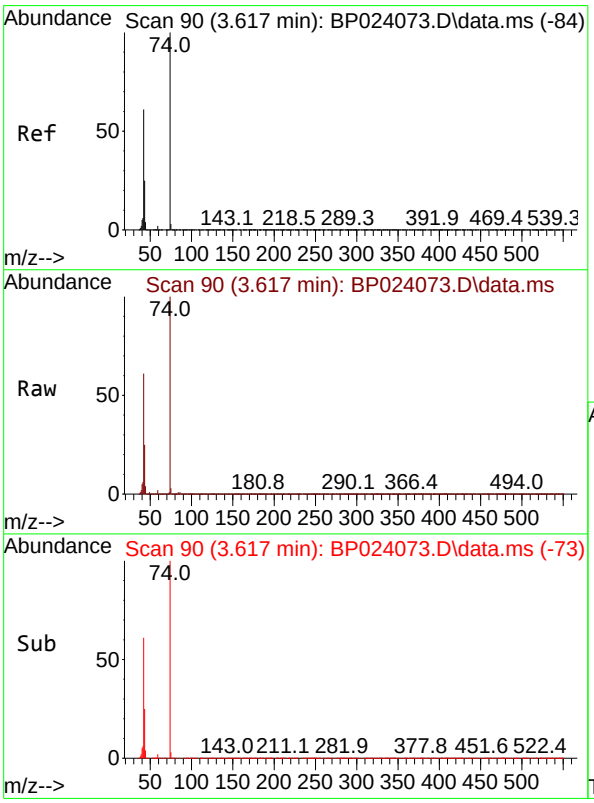
Ion	Ratio	Lower	Upper
79	100		
52	54.4	43.5	65.3
51	27.8	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

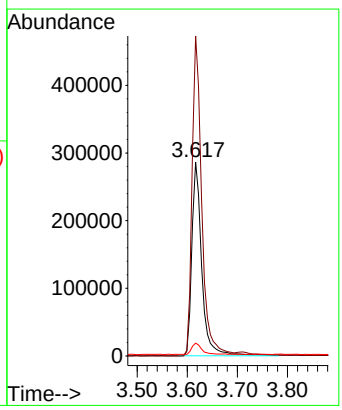
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

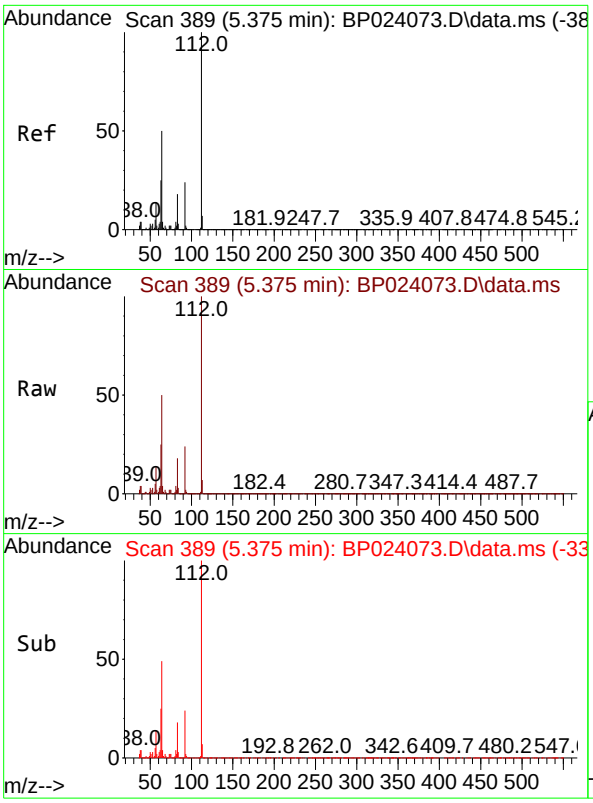


#4
n-Nitrosodimethylamine
Concen: 42.688 ng
RT: 3.617 min Scan# 90
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 42 Resp: 394345

Ion	Ratio	Lower	Upper
42	100		
74	165.0	132.0	198.0
44	6.6	5.3	7.9

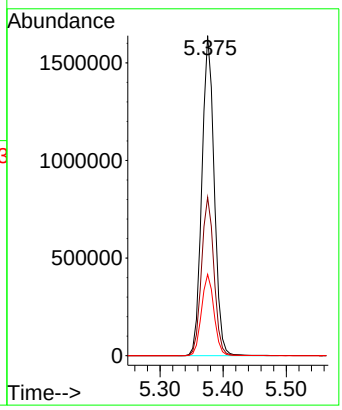




#5
2-Fluorophenol
Concen: 87.418 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:112 Resp: 223222

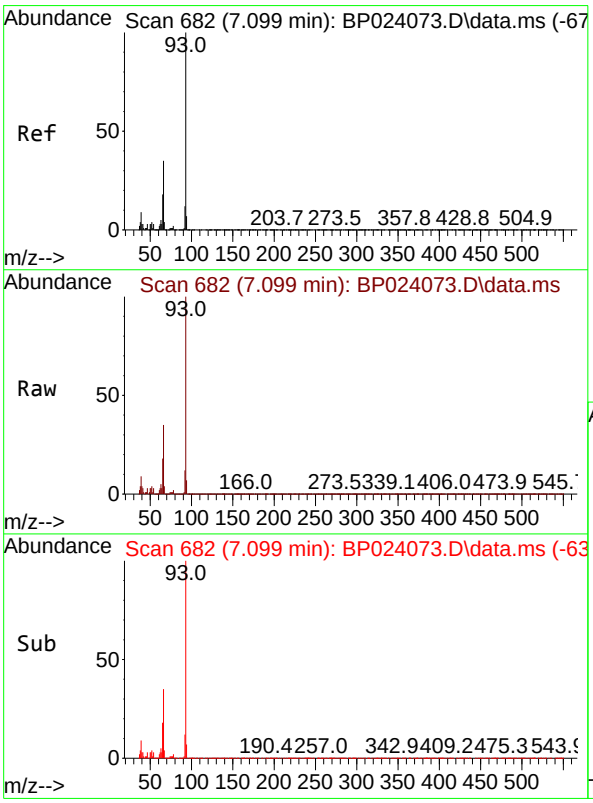
Ion	Ratio	Lower	Upper
112	100		
64	49.5	39.6	59.4
63	25.4	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

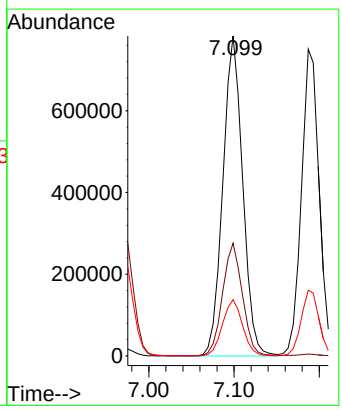
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

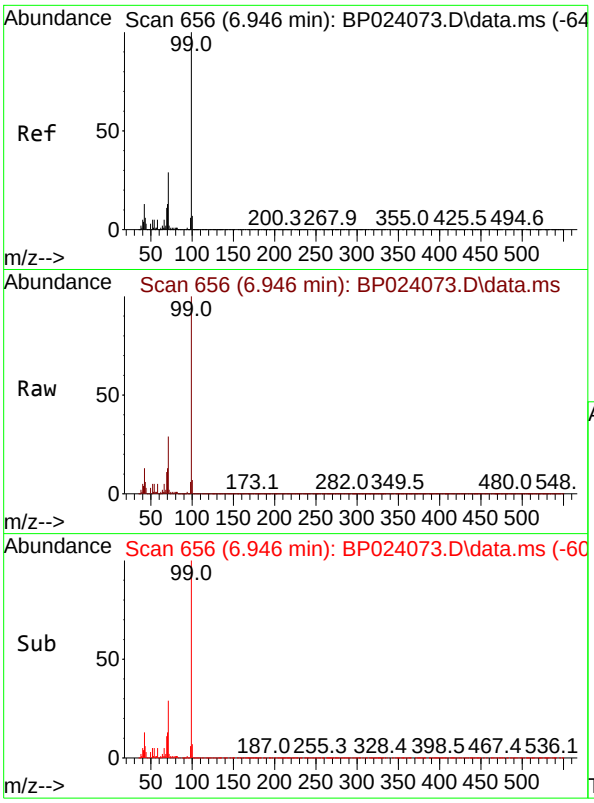


#6
Aniline
Concen: 42.070 ng
RT: 7.099 min Scan# 682
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 93 Resp: 1264446

Ion	Ratio	Lower	Upper
93	100		
66	35.3	28.2	42.4
65	17.6	14.1	21.1

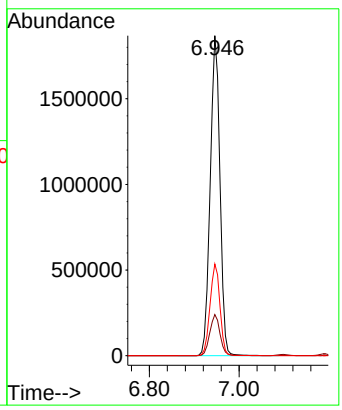




#7
Phenol-d6
Concen: 85.509 ng
RT: 6.946 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 99 Resp: 280633

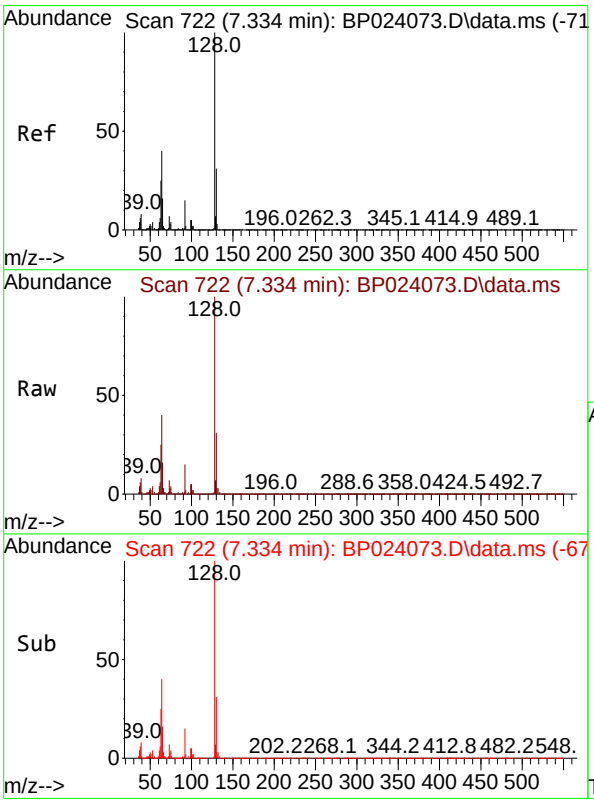
Ion	Ratio	Lower	Upper
99	100		
42	12.9	10.3	15.5
71	28.6	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

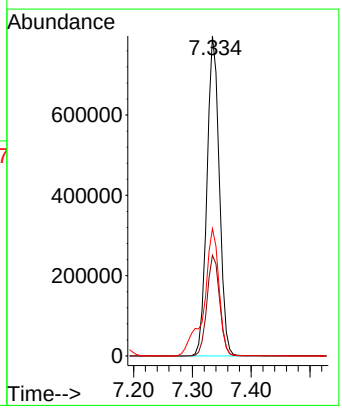
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

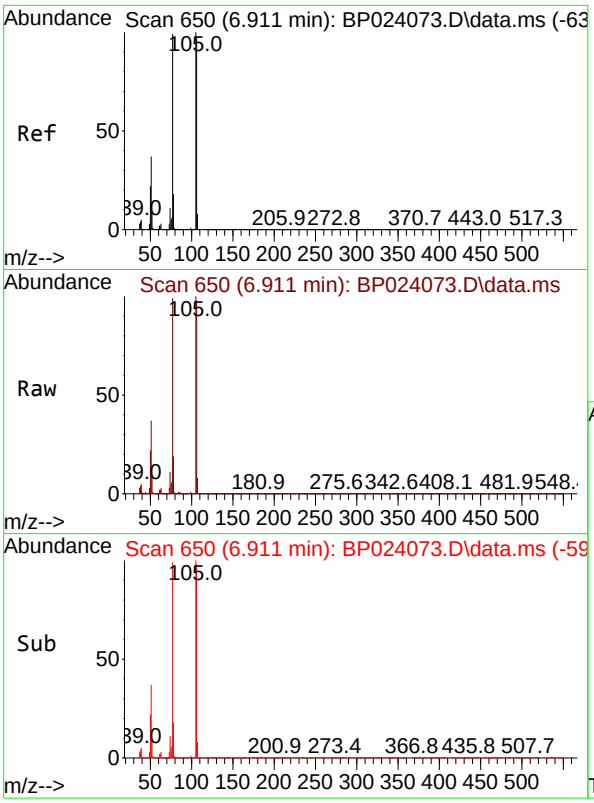


#8
2-Chlorophenol
Concen: 42.885 ng
RT: 7.334 min Scan# 722
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:128 Resp: 1159071

Ion	Ratio	Lower	Upper
128	100		
130	31.5	11.5	51.5
64	39.8	19.8	59.8

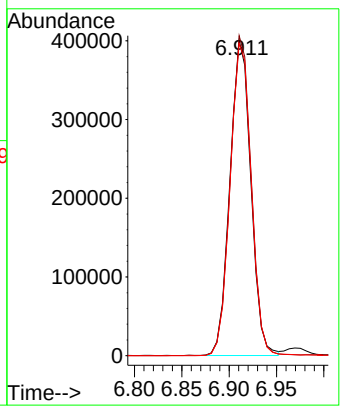




#9
Benzaldehyde
Concen: 41.010 ng
RT: 6.911 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 77 Resp: 61448

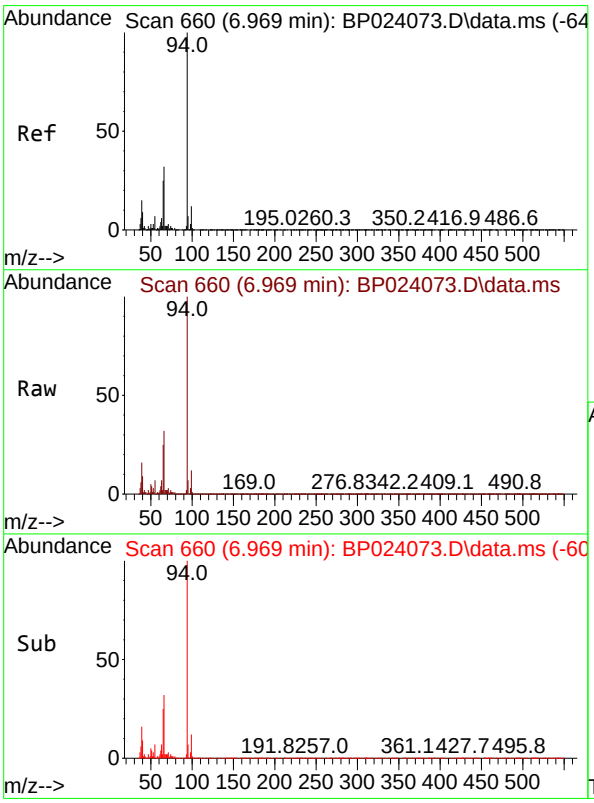
Ion	Ratio	Lower	Upper
77	100		
105	101.4	81.4	121.4
106	99.0	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

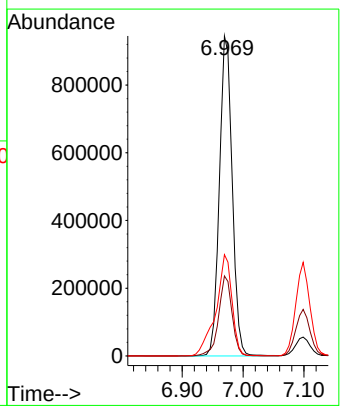
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

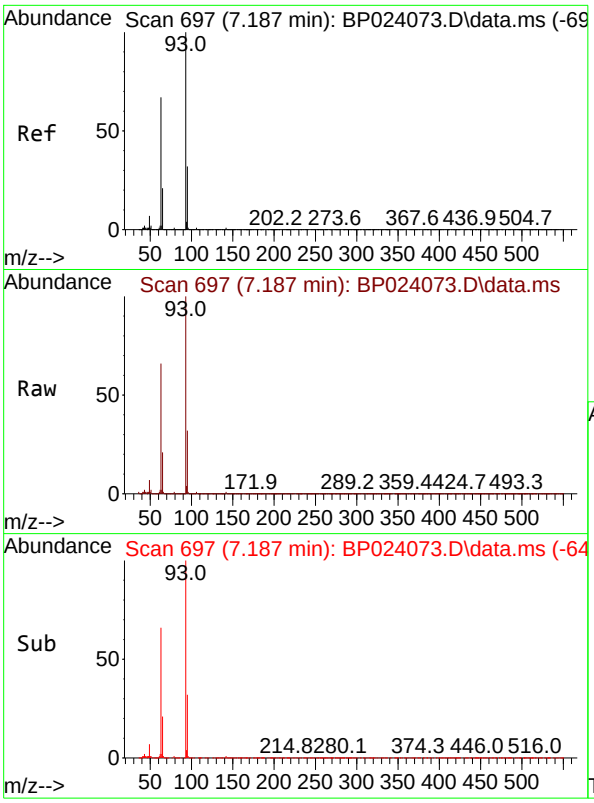


#10
Phenol
Concen: 41.849 ng
RT: 6.969 min Scan# 660
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 94 Resp: 1381122

Ion	Ratio	Lower	Upper
94	100		
65	25.0	5.0	45.0
66	31.6	11.6	51.6

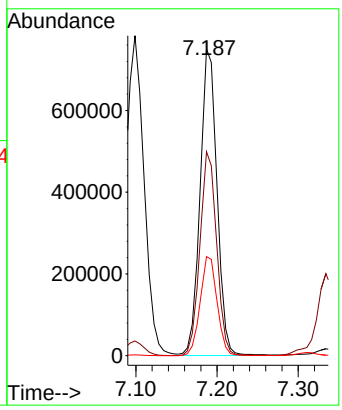




#11
bis(2-Chloroethyl)ether
Concen: 41.754 ng
RT: 7.187 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 93 Resp: 108532

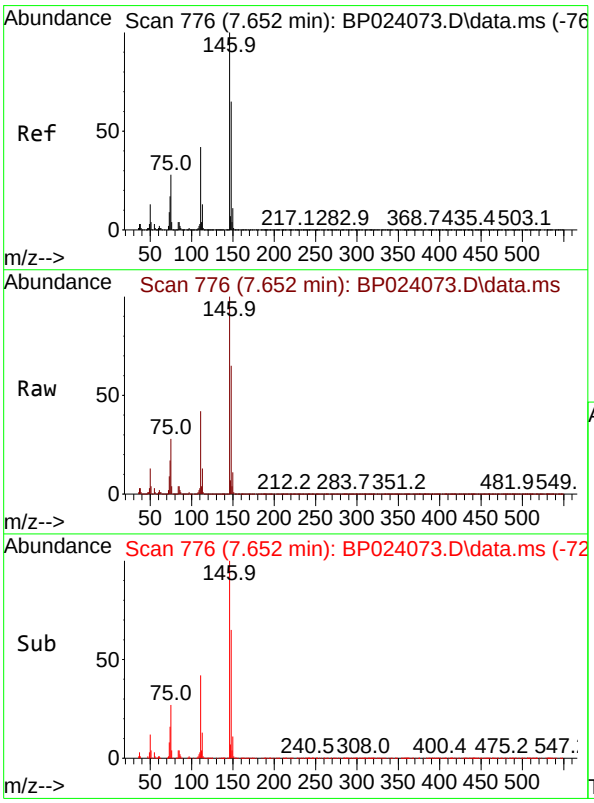
Ion	Ratio	Lower	Upper
93	100		
63	66.5	46.5	86.5
95	32.3	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

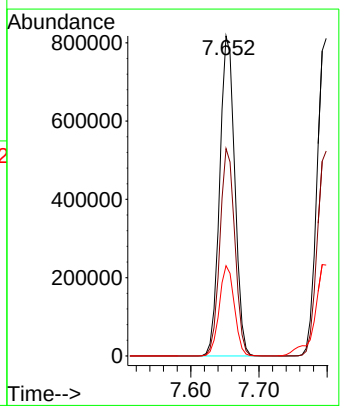
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

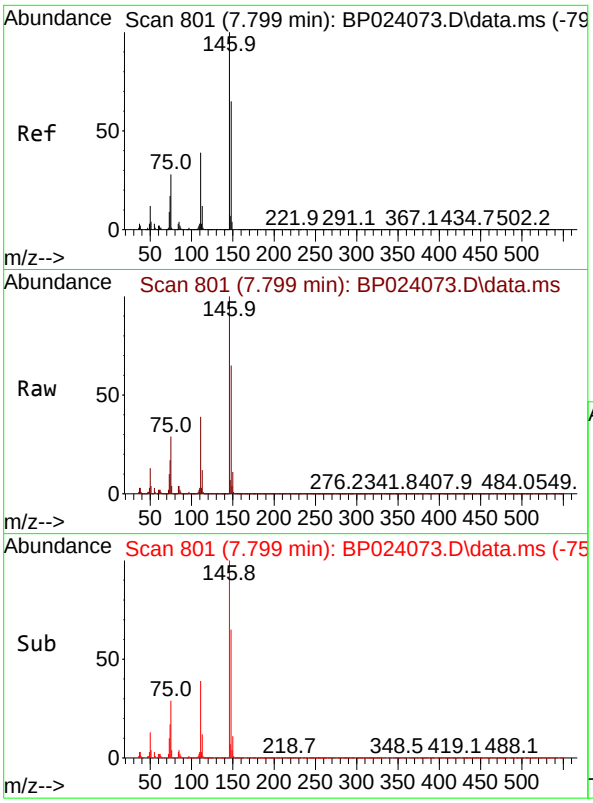


#12
1,3-Dichlorobenzene
Concen: 42.326 ng
RT: 7.652 min Scan# 776
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:146 Resp: 1256714

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.8	77.8
75	28.2	22.6	33.8





#13
1,4-Dichlorobenzene
Concen: 42.195 ng
RT: 7.799 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

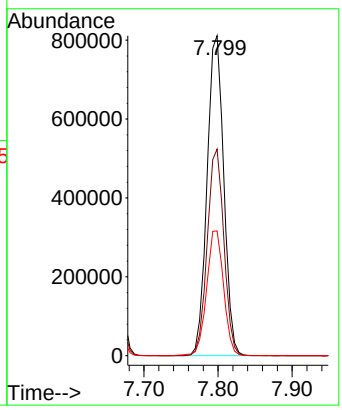
Tgt Ion:146 Resp: 126699

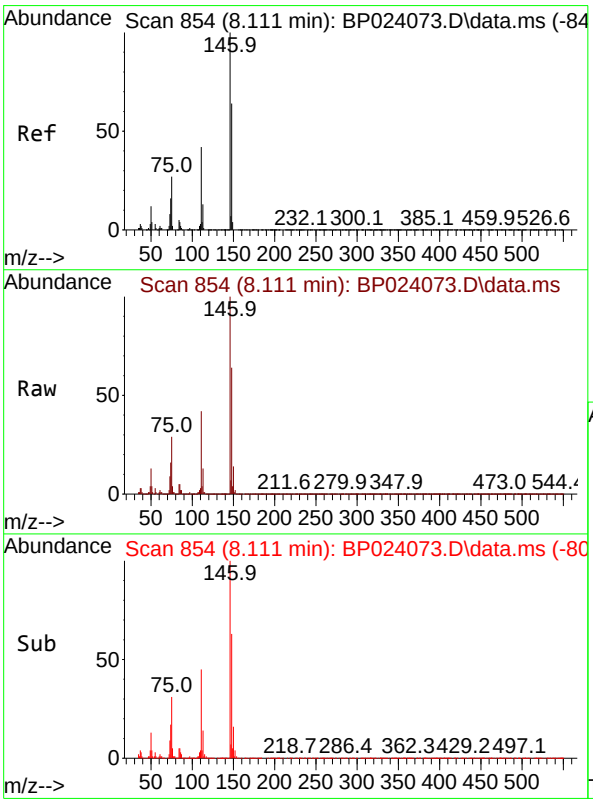
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.6	77.4
111	39.0	31.2	46.8

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

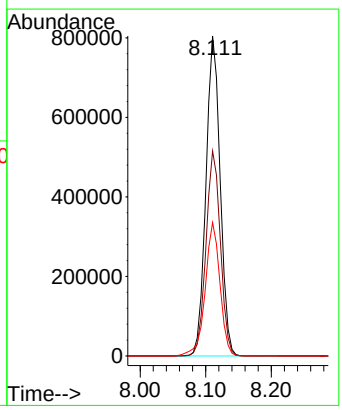


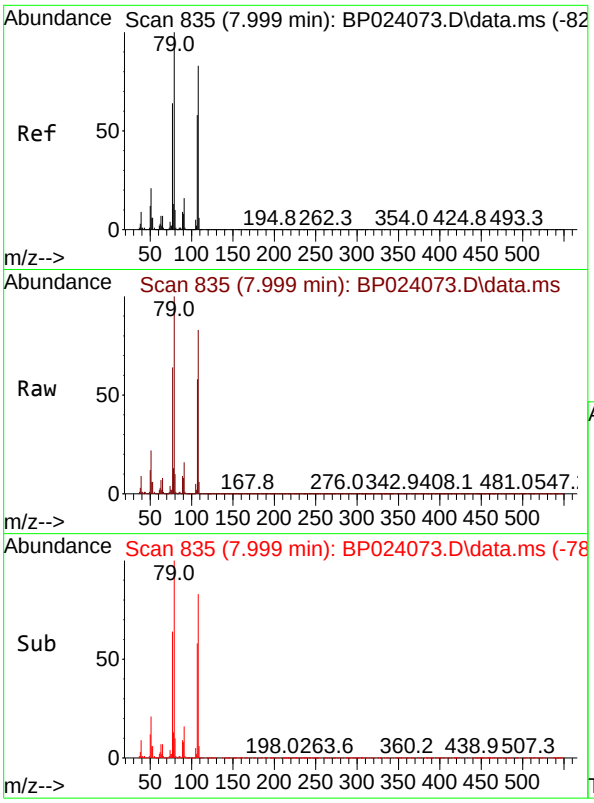


#14
1,2-Dichlorobenzene
Concen: 42.128 ng
RT: 8.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:146 Resp: 1214013

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	41.7	33.4	50.0





#15
Benzyl Alcohol
Concen: 42.401 ng
RT: 7.999 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

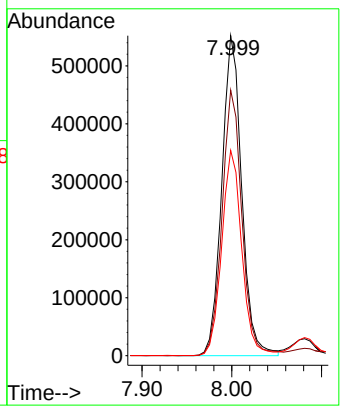
Tgt Ion: 79 Resp: 85179

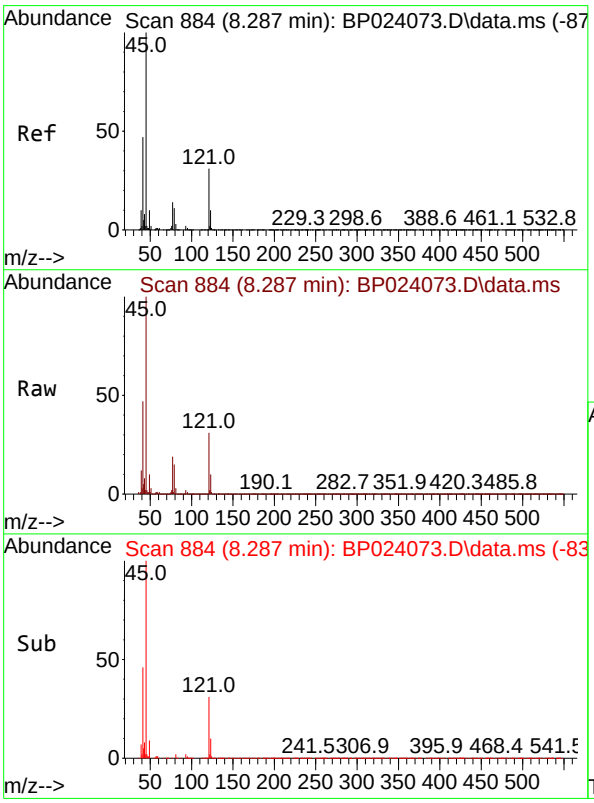
Ion	Ratio	Lower	Upper
79	100		
108	83.0	66.4	99.6
77	64.1	51.3	76.9

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

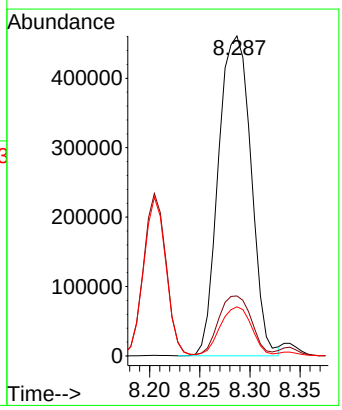


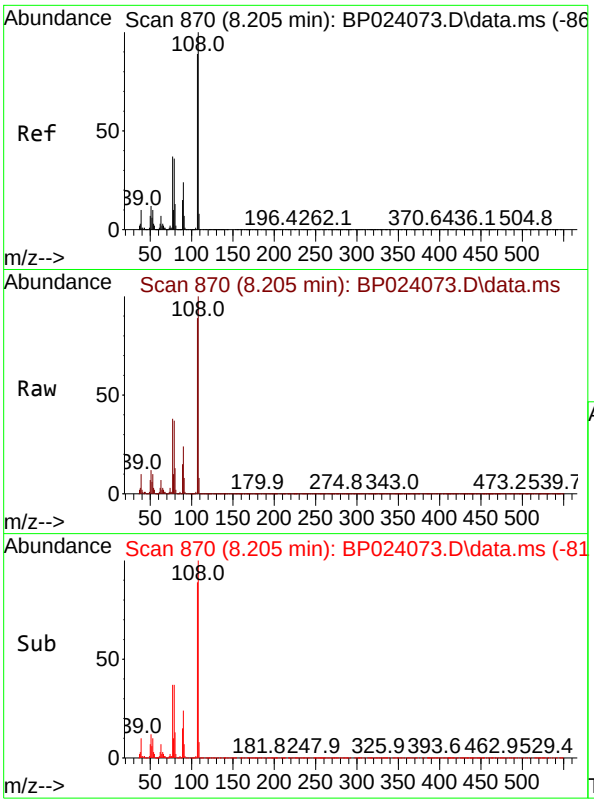


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.334 ng
RT: 8.287 min Scan# 884
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 45 Resp: 1042976

Ion	Ratio	Lower	Upper
45	100		
77	18.8	0.0	38.8
79	15.4	0.0	35.4

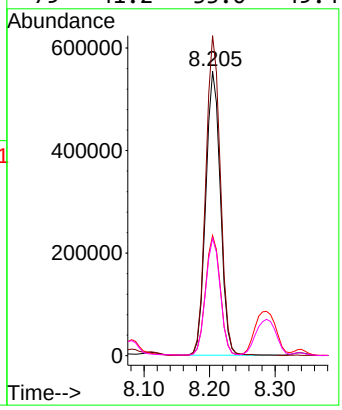




#17
2-Methylphenol
Concen: 42.681 ng
RT: 8.205 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:107 Resp: 85836

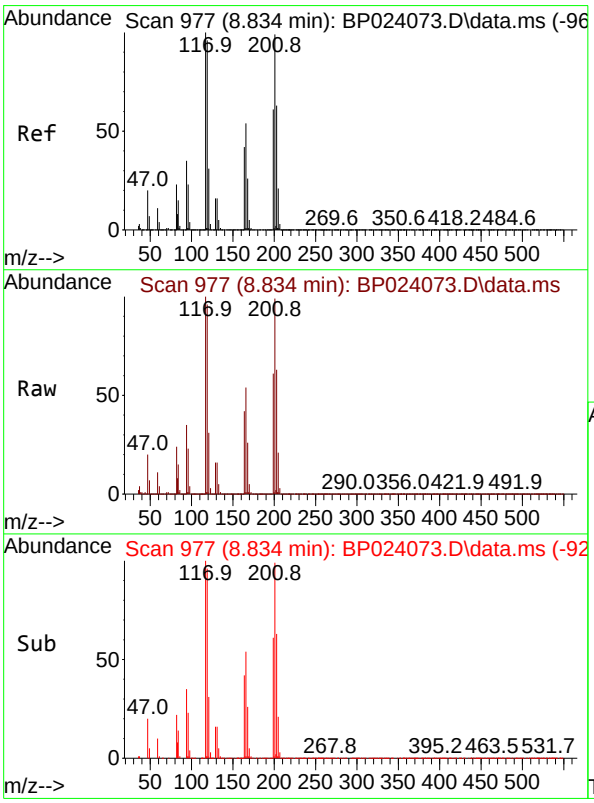
Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.0	135.0
77	42.2	33.8	50.6
79	41.2	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

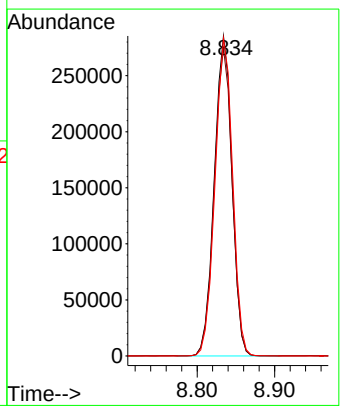
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

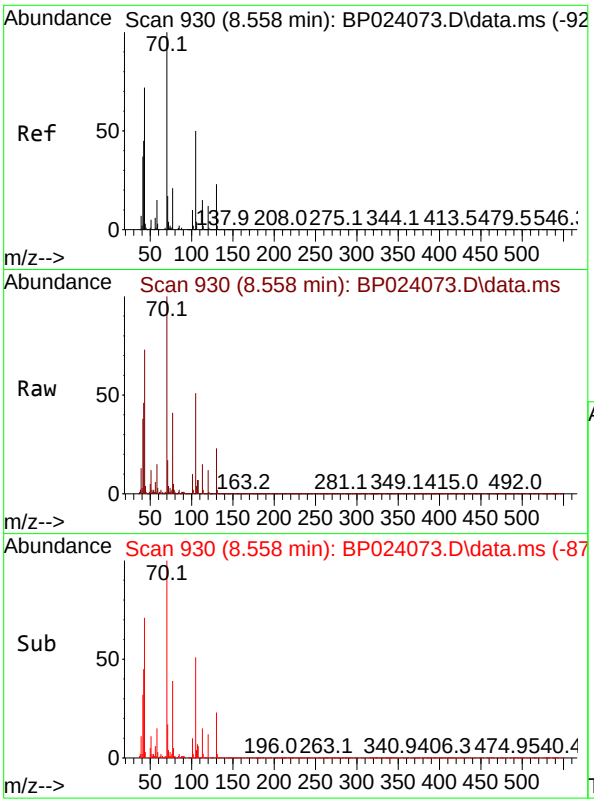


#18
Hexachloroethane
Concen: 41.830 ng
RT: 8.834 min Scan# 977
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:117 Resp: 452348

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
201	99.3	79.4	119.2

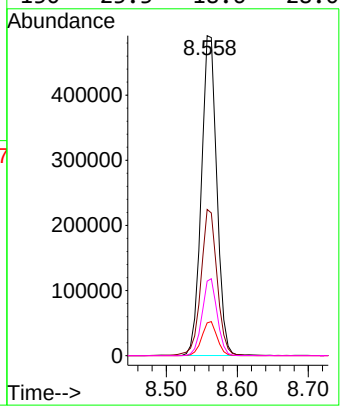




#19
n-Nitroso-di-n-propylamine
Concen: 42.162 ng
RT: 8.558 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 70 Resp: 74399

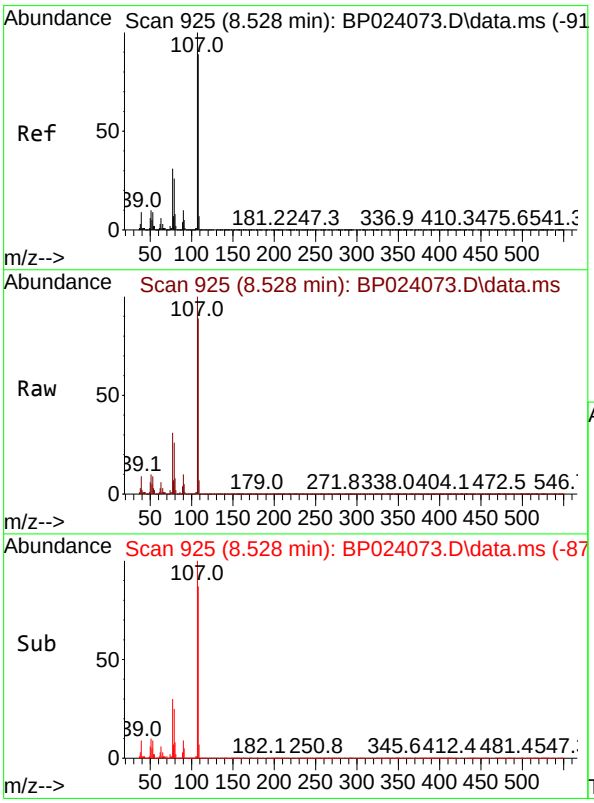
Ion	Ratio	Lower	Upper
70	100		
42	45.7	36.6	54.8
101	10.2	8.2	12.2
130	23.3	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

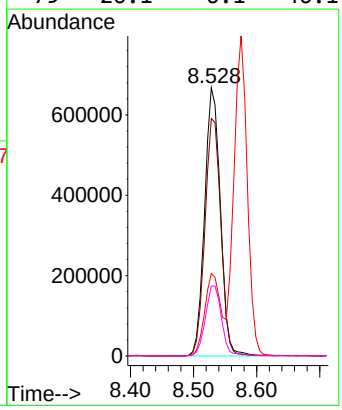
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

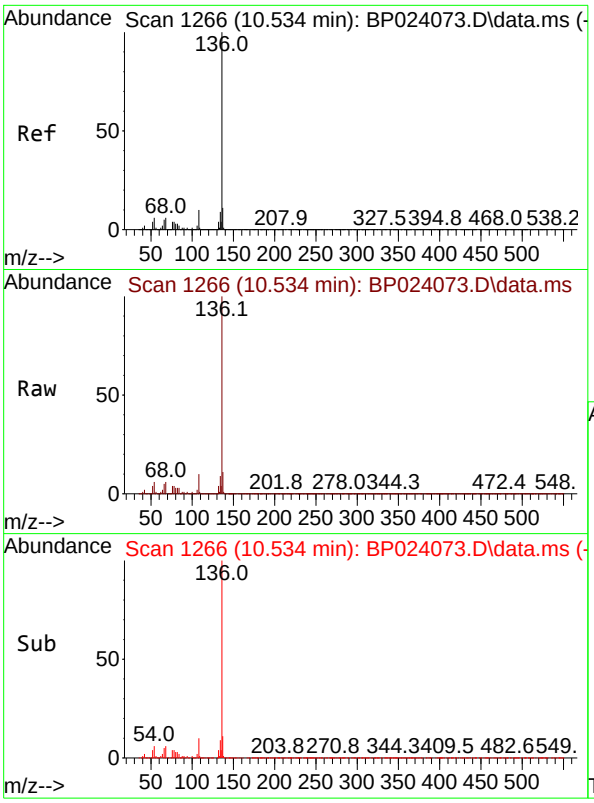


#20
3+4-Methylphenols
Concen: 42.263 ng
RT: 8.528 min Scan# 925
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:107 Resp: 1156282

Ion	Ratio	Lower	Upper
107	100		
108	88.5	68.5	108.5
77	30.7	10.7	50.7
79	26.1	6.1	46.1

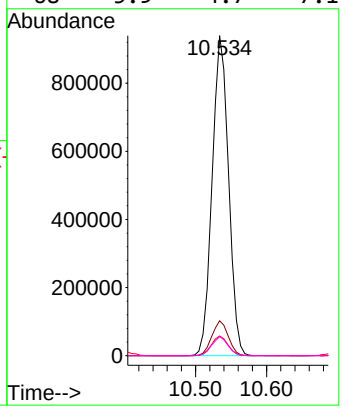




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:136 Resp: 150666

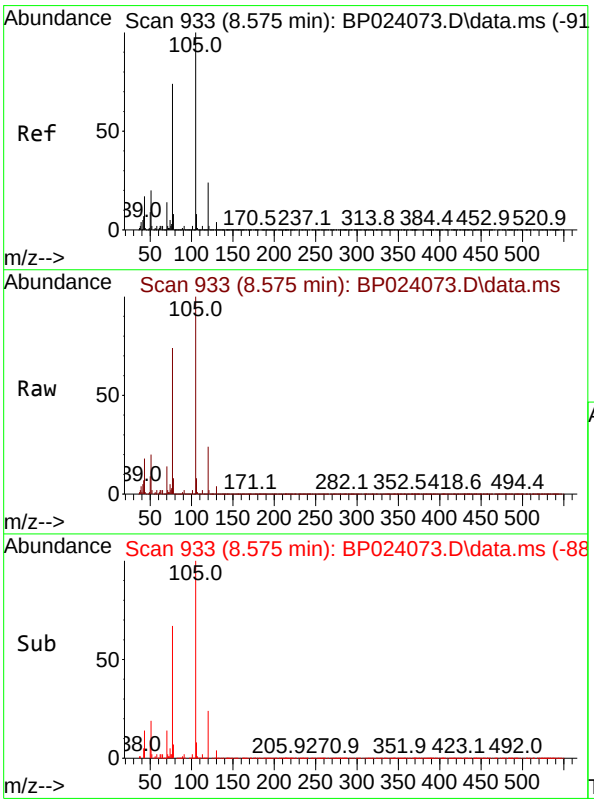
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	6.1	4.9	7.3
68	5.9	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

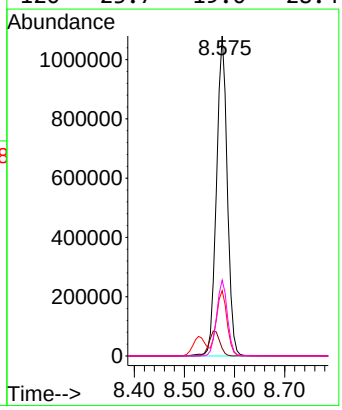
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

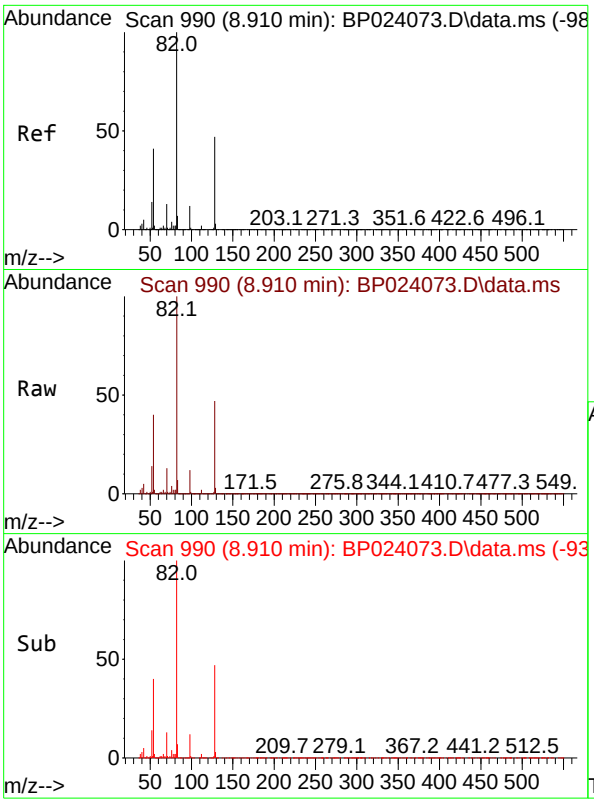


#22
Acetophenone
Concen: 41.816 ng
RT: 8.575 min Scan# 933
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:105 Resp: 1618999

Ion	Ratio	Lower	Upper
105	100		
71	2.4	1.9	2.9
51	20.4	16.3	24.5
120	23.7	19.0	28.4

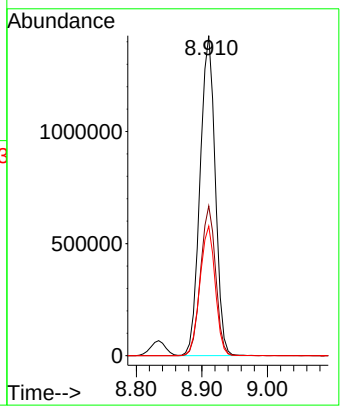




#23
Nitrobenzene-d5
Concen: 85.259 ng
RT: 8.910 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 82 Resp: 230253

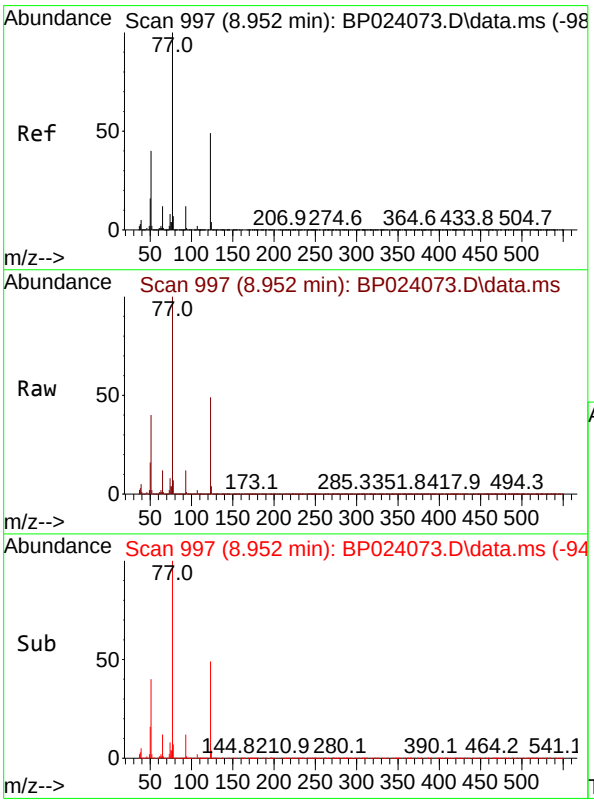
Ion	Ratio	Lower	Upper
82	100		
128	46.8	37.4	56.2
54	40.5	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

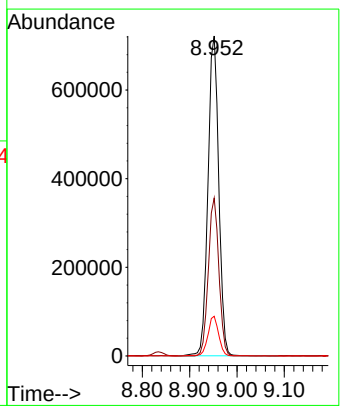
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

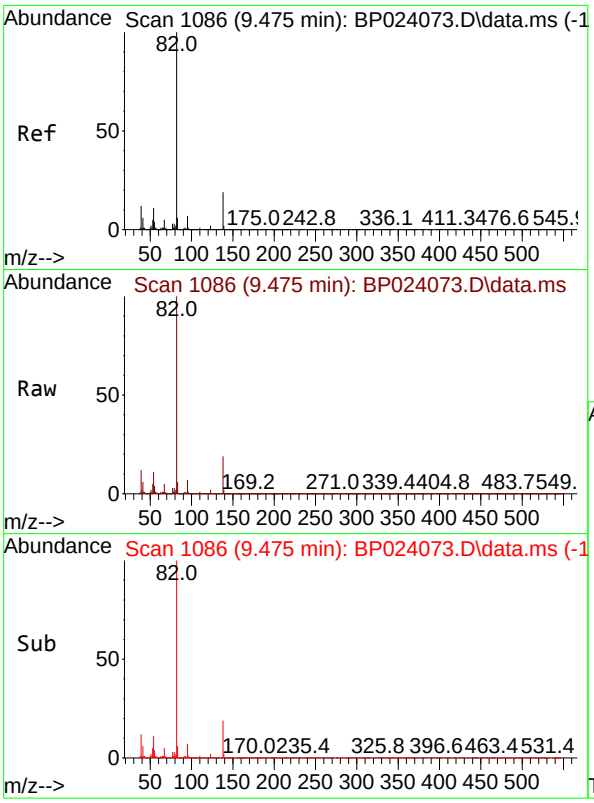


#24
Nitrobenzene
Concen: 42.843 ng
RT: 8.952 min Scan# 997
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 77 Resp: 1138713

Ion	Ratio	Lower	Upper
77	100		
123	49.3	39.4	59.2
65	12.4	9.9	14.9

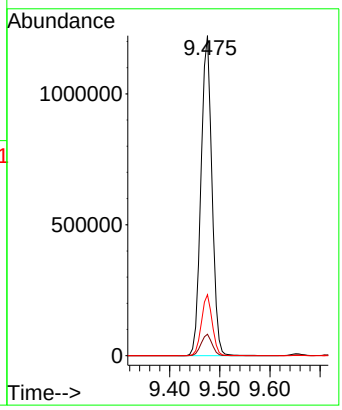




#25
Isophorone
Concen: 42.042 ng
RT: 9.475 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 82 Resp: 185674

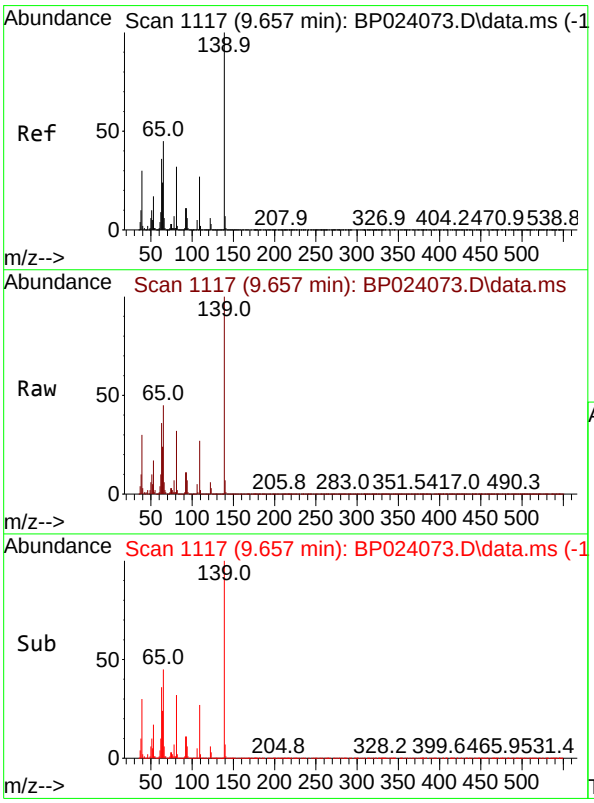
Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.4	8.0
138	19.1	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

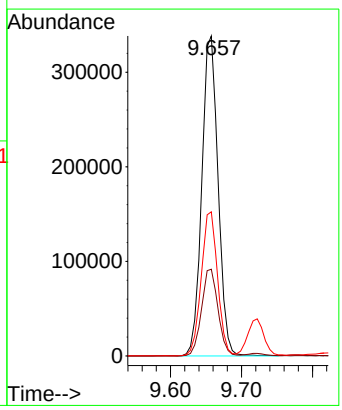
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

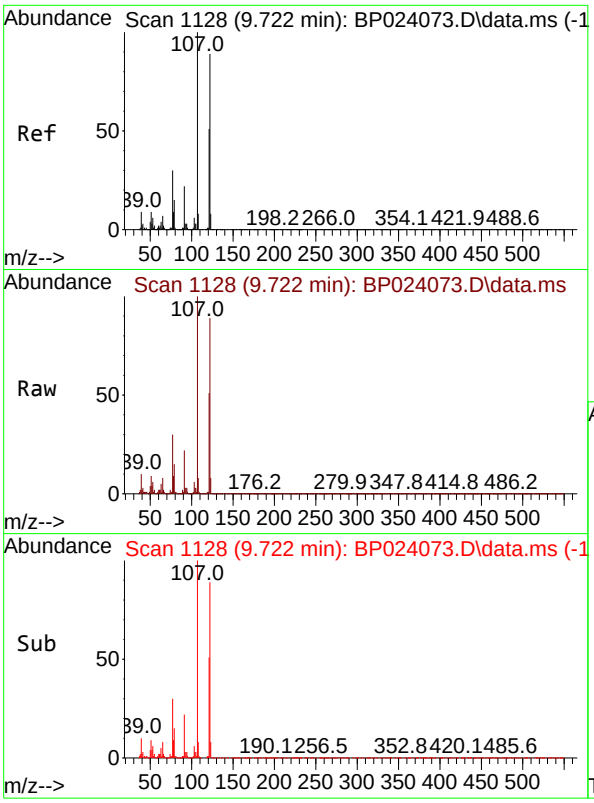


#26
2-Nitrophenol
Concen: 44.086 ng
RT: 9.657 min Scan# 1117
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:139 Resp: 539835

Ion	Ratio	Lower	Upper
139	100		
109	27.1	21.7	32.5
65	45.1	36.1	54.1

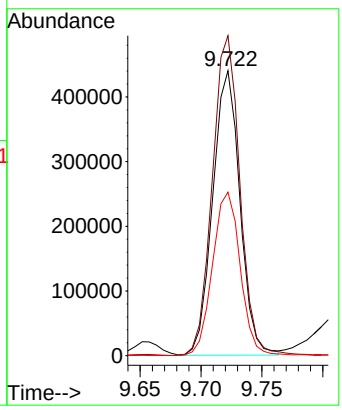




#27
2,4-Dimethylphenol
Concen: 42.578 ng
RT: 9.722 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:122 Resp: 68438

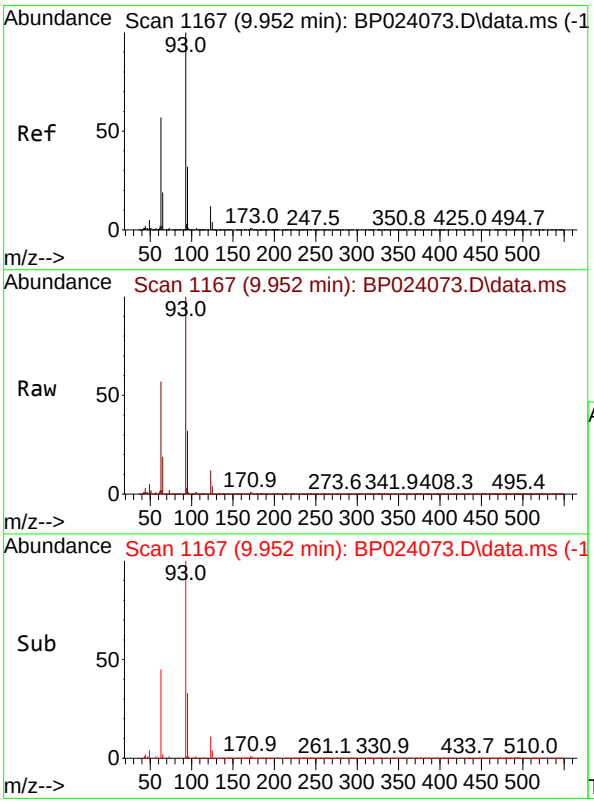
Ion	Ratio	Lower	Upper
122	100		
107	112.3	89.8	134.8
121	57.4	45.9	68.9



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

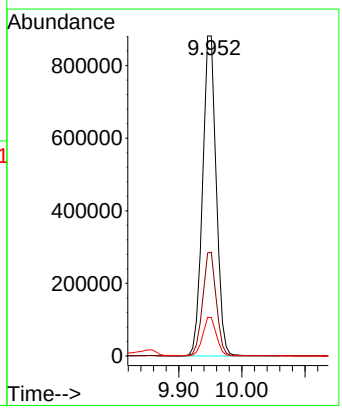
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

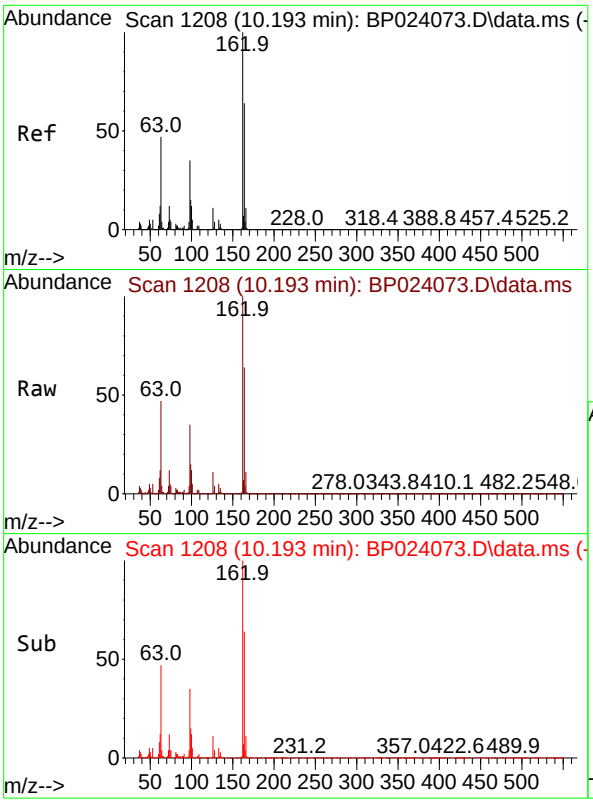


#28
bis(2-Chloroethoxy)methane
Concen: 41.429 ng
RT: 9.952 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 93 Resp: 1325452

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.9	38.9
123	12.1	9.7	14.5

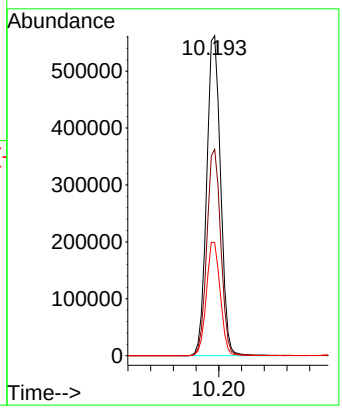




#29
2,4-Dichlorophenol
Concen: 43.345 ng
RT: 10.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:162 Resp: 95080

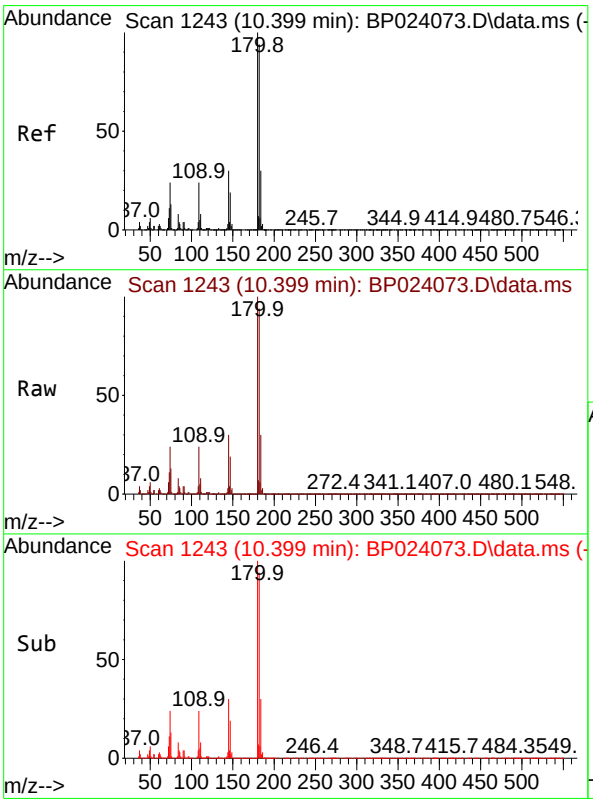
Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.5	84.5
98	35.3	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

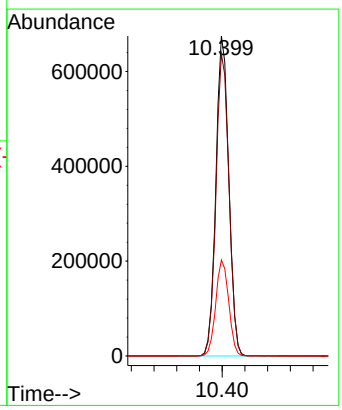
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

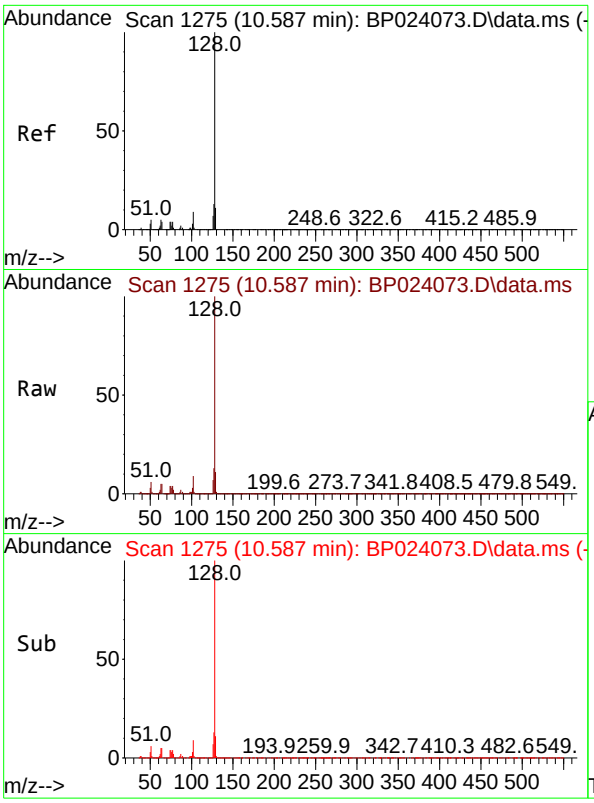


#30
1,2,4-Trichlorobenzene
Concen: 42.272 ng
RT: 10.399 min Scan# 1243
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:180 Resp: 1062404

Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.4	113.2
145	30.0	24.0	36.0

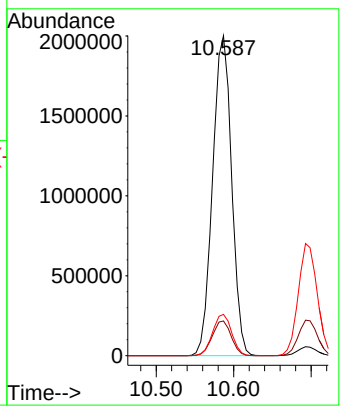




#31
Naphthalene
Concen: 42.062 ng
RT: 10.587 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:128 Resp: 340756

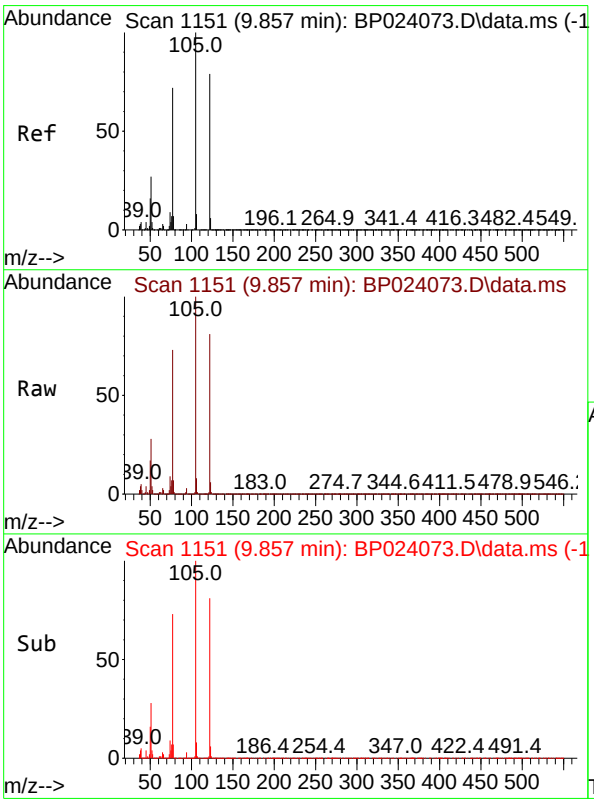
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.6	13.0
127	12.9	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

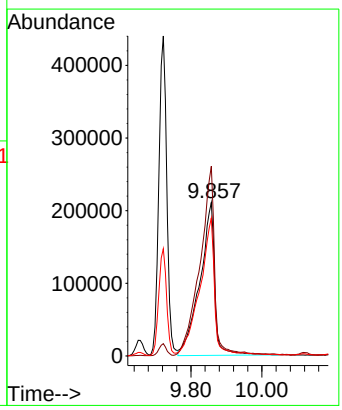
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

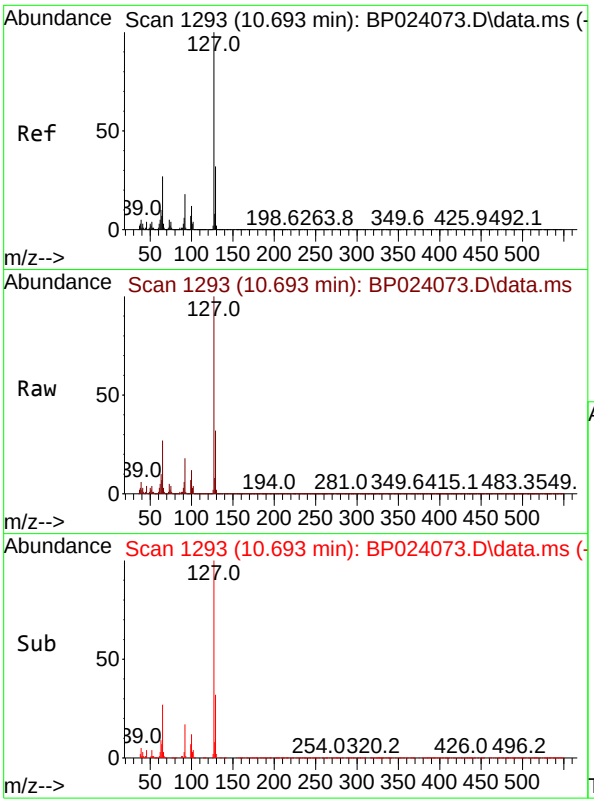


#32
Benzoic acid
Concen: 38.237 ng
RT: 9.857 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:122 Resp: 614425

Ion	Ratio	Lower	Upper
122	100		
105	123.7	103.7	143.7
77	89.9	69.9	109.9

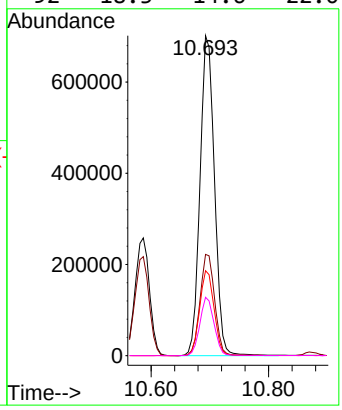




#33
4-Chloroaniline
Concen: 42.037 ng
RT: 10.693 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:127 Resp: 119972

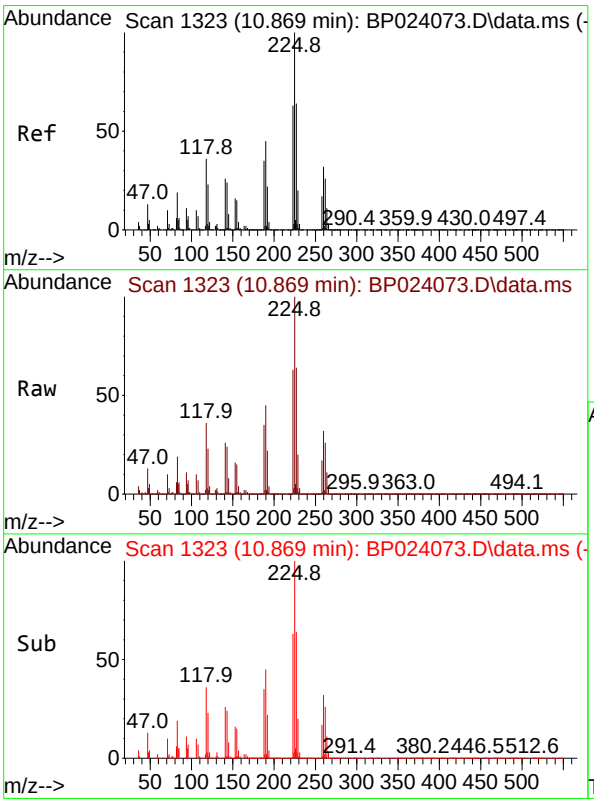
Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.0
65	26.6	21.3	31.9
92	18.3	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

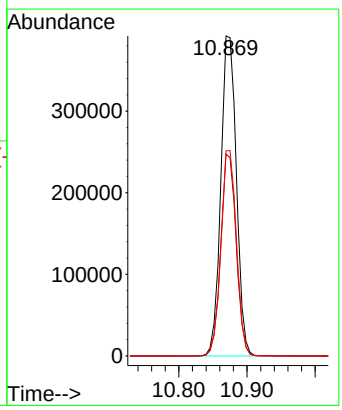
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

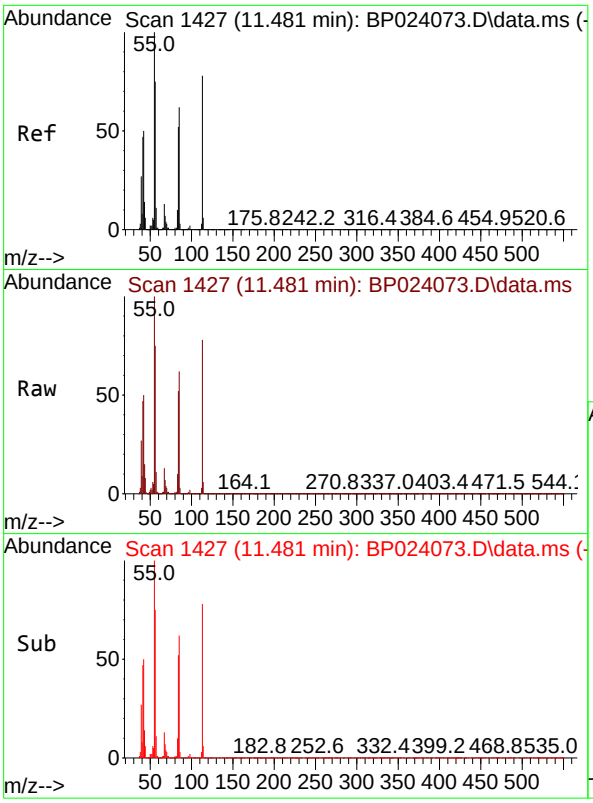


#34
Hexachlorobutadiene
Concen: 42.743 ng
RT: 10.869 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:225 Resp: 622219

Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.5	75.7
227	64.1	51.3	76.9

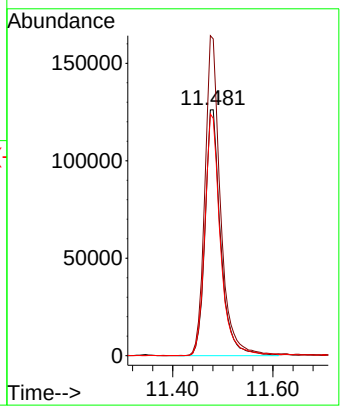




#35
Caprolactam
Concen: 38.044 ng
RT: 11.481 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:113 Resp: 27142

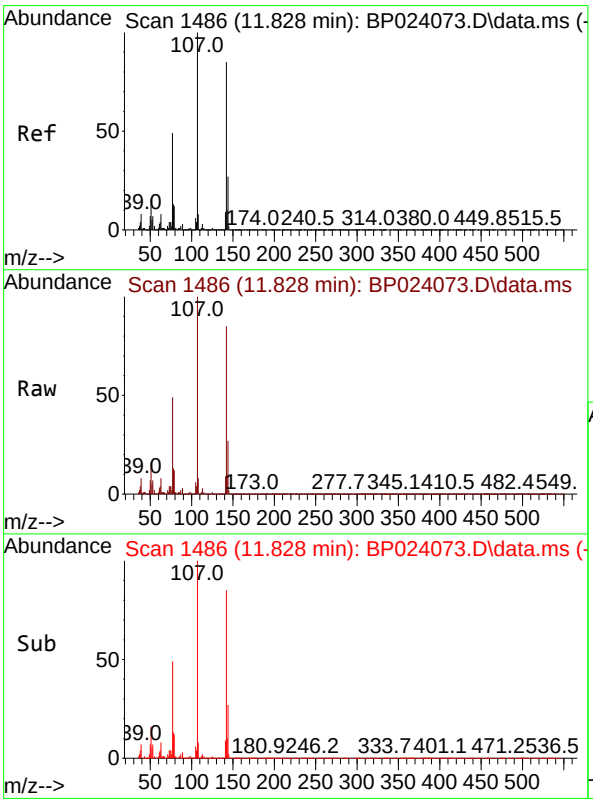
Ion	Ratio	Lower	Upper
113	100		
55	128.8	108.8	148.8
56	96.5	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

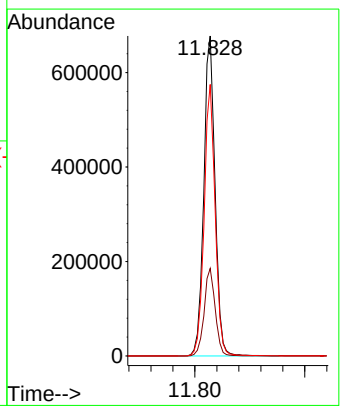
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

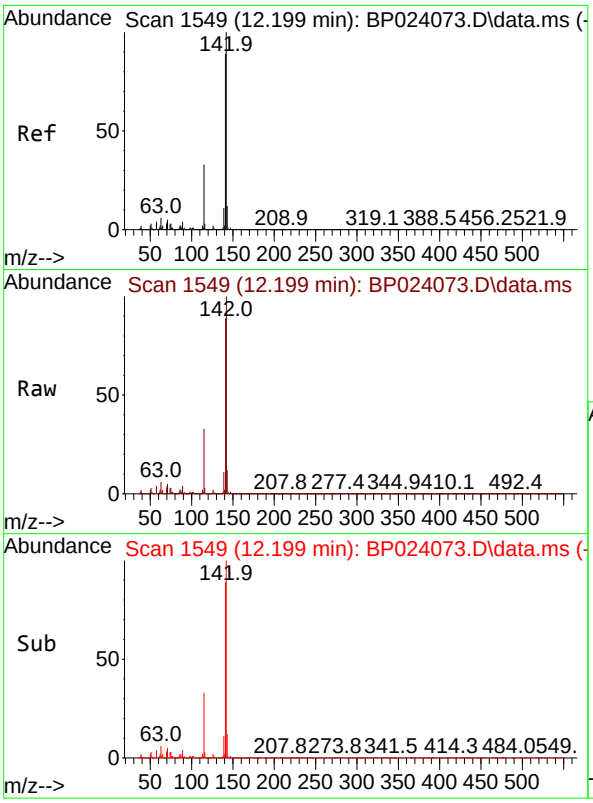


#36
4-Chloro-3-methylphenol
Concen: 42.506 ng
RT: 11.828 min Scan# 1486
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:107 Resp: 958524

Ion	Ratio	Lower	Upper
107	100		
144	27.3	21.8	32.8
142	84.8	67.8	101.8

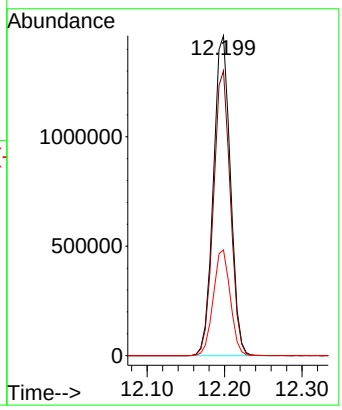




#37
2-Methylnaphthalene
Concen: 41.420 ng
RT: 12.199 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:142 Resp: 223025

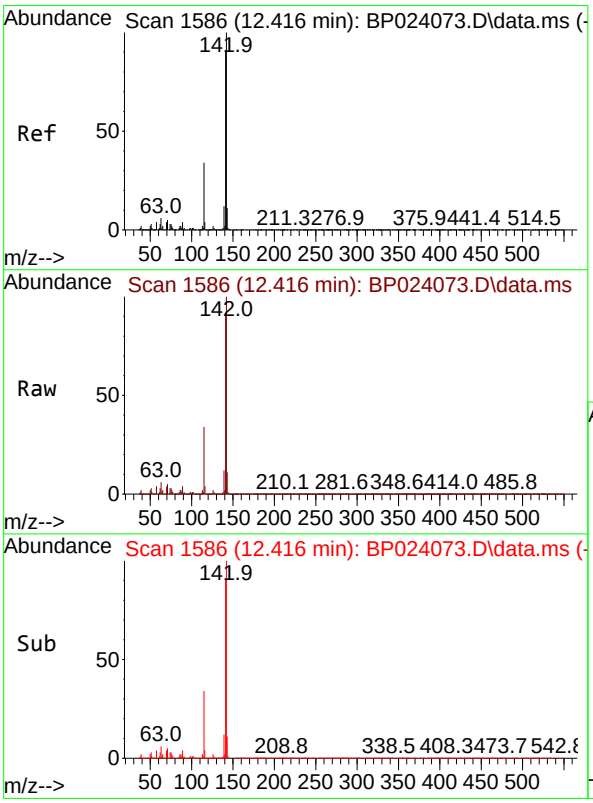
Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
115	33.1	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

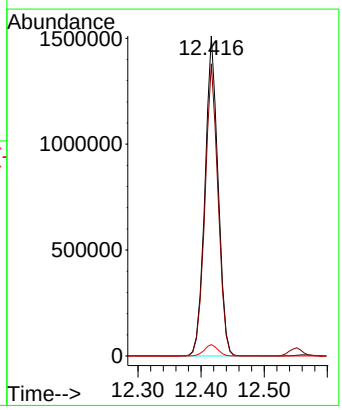
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

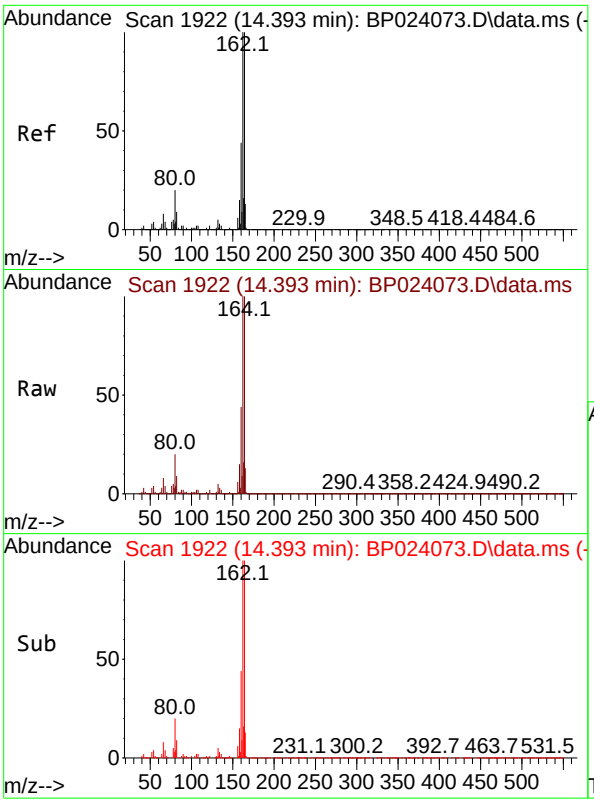


#38
1-Methylnaphthalene
Concen: 41.352 ng
RT: 12.416 min Scan# 1586
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:142 Resp: 2166108

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.0	109.6
116	3.5	2.8	4.2

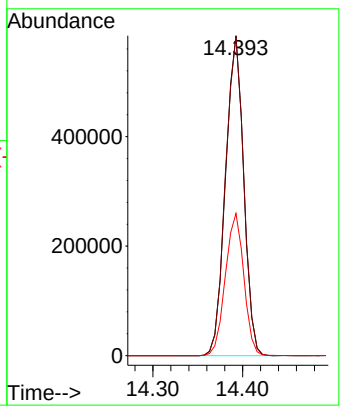




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.393 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:164 Resp: 81782

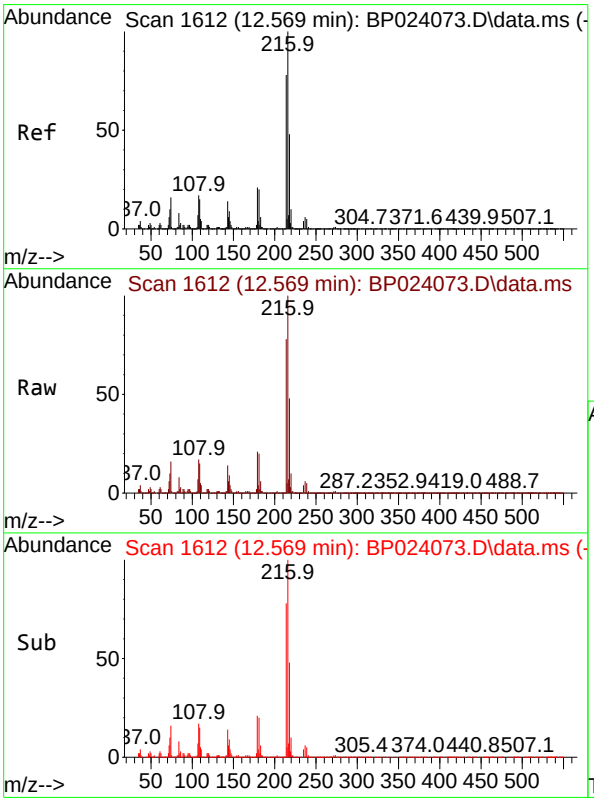
Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.1	120.1
160	44.5	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

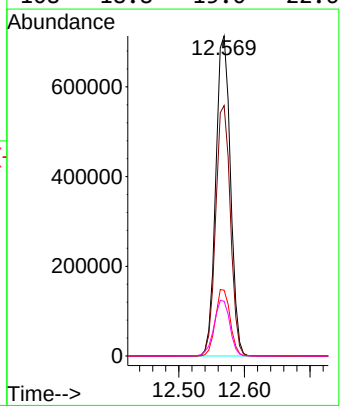
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

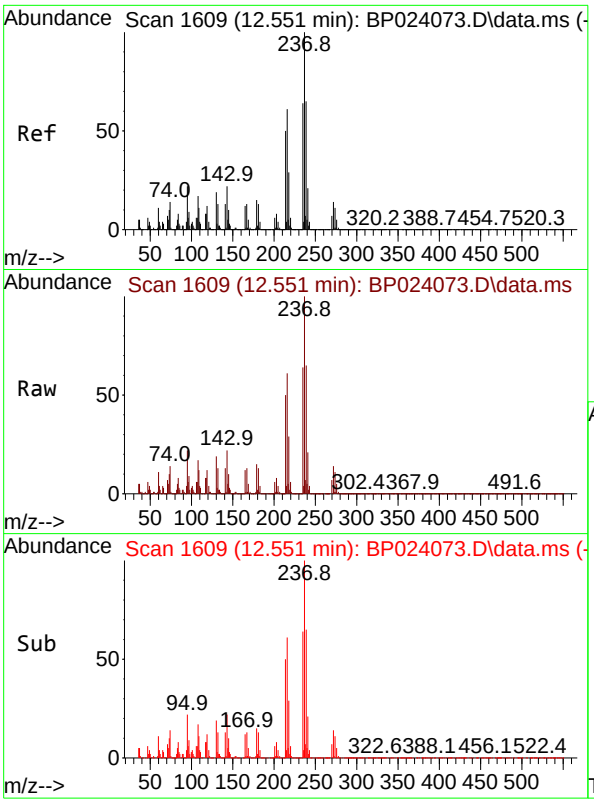


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.933 ng
RT: 12.569 min Scan# 1612
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:216 Resp: 1103960

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.7	94.1
179	20.8	16.6	25.0
108	18.8	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 45.781 ng
RT: 12.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

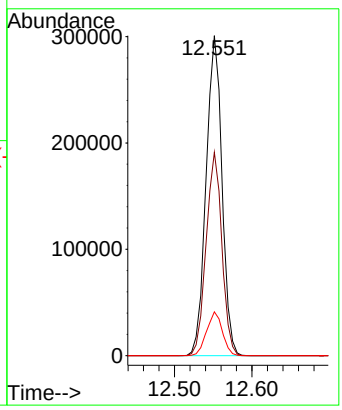
Tgt Ion:237 Resp: 42807

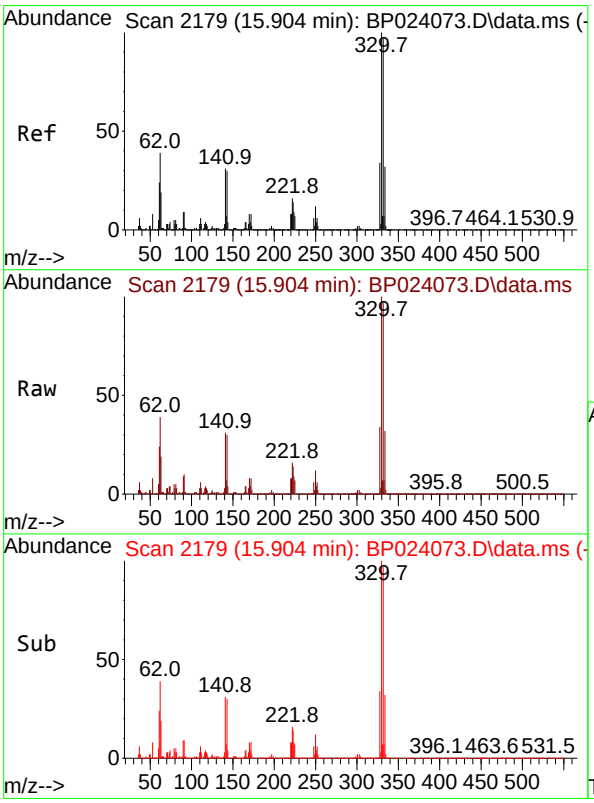
Ion	Ratio	Lower	Upper
237	100		
235	63.5	43.5	83.5
272	13.7	0.0	33.7

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

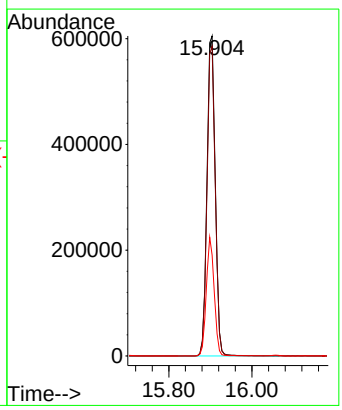


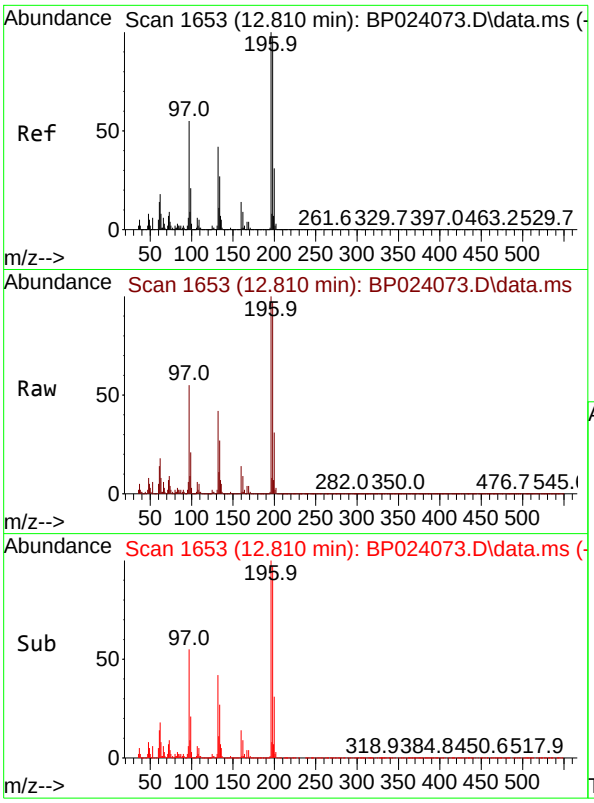


#42
2,4,6-Tribromophenol
Concen: 83.582 ng
RT: 15.904 min Scan# 2179
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:330 Resp: 837277

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.0	115.4
141	35.4	28.3	42.5

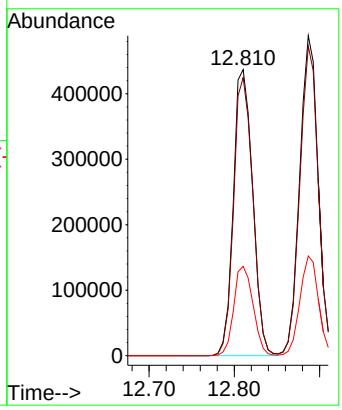




#43
2,4,6-Trichlorophenol
Concen: 45.121 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:196 Resp: 69145

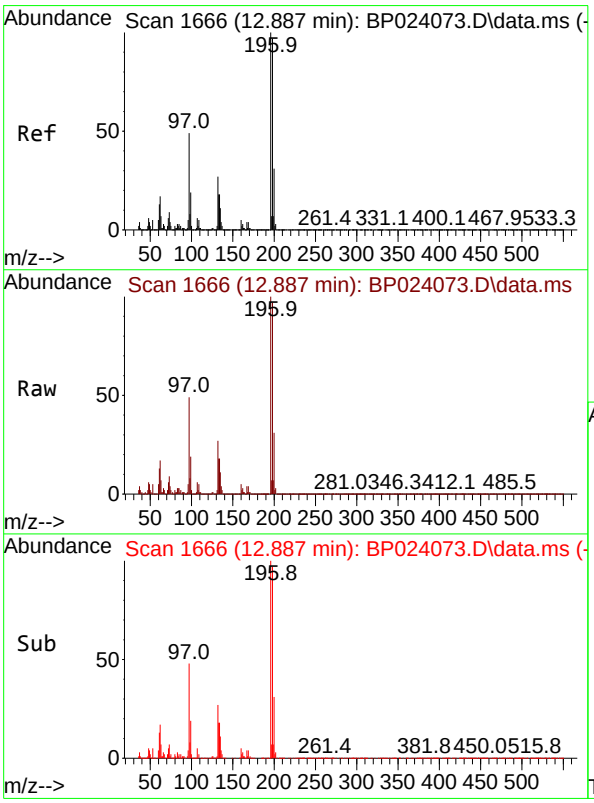
Ion	Ratio	Lower	Upper
196	100		
198	97.2	77.8	116.6
200	31.2	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

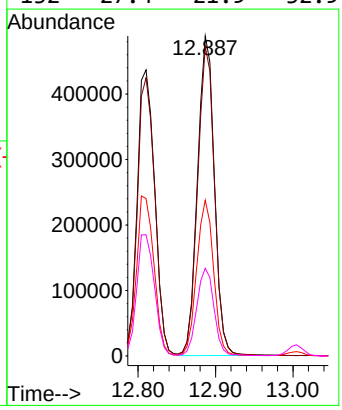
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

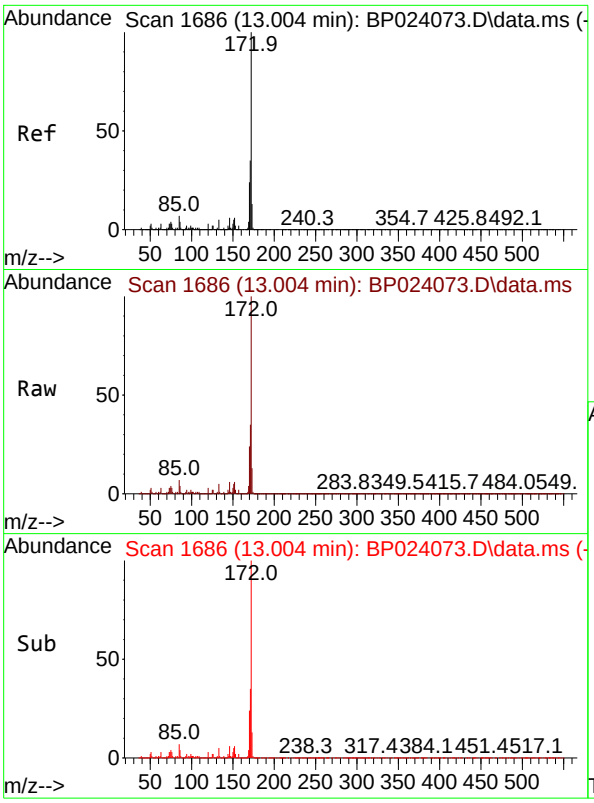


#44
2,4,5-Trichlorophenol
Concen: 44.169 ng
RT: 12.887 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:196 Resp: 740246

Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.4	116.2
97	48.7	39.0	58.4
132	27.4	21.9	32.9

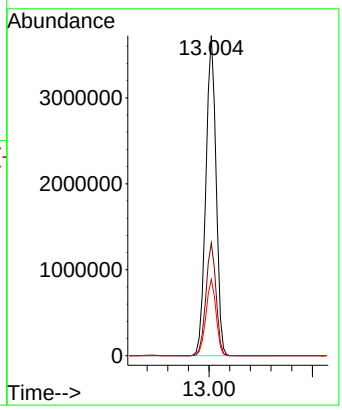




#45
2-Fluorobiphenyl
Concen: 87.094 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:172 Resp: 509495

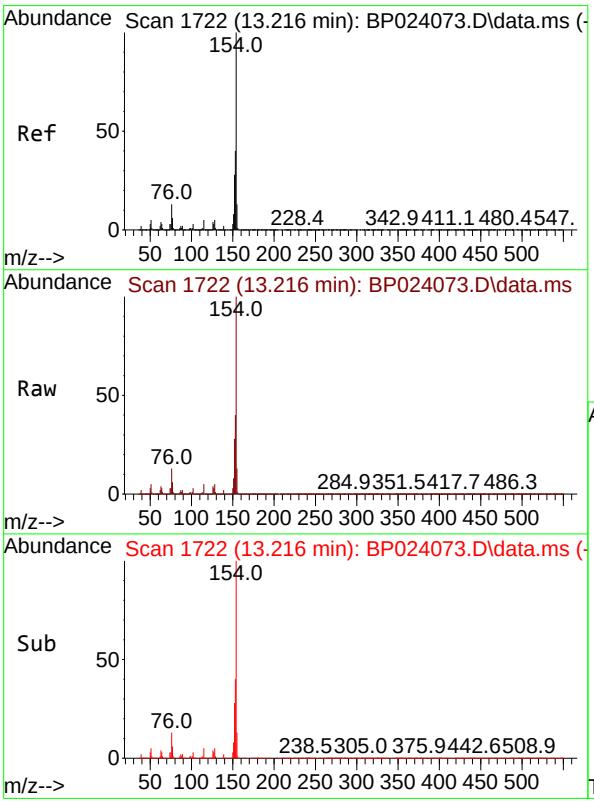
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.2	42.2
170	23.8	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

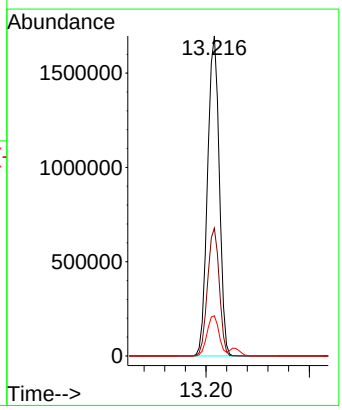
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

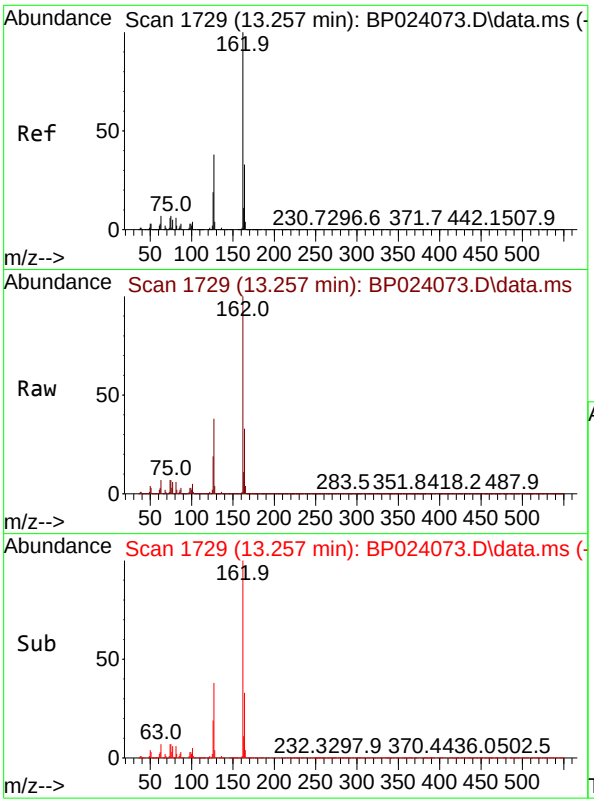


#46
1,1'-Biphenyl
Concen: 41.965 ng
RT: 13.216 min Scan# 1722
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:154 Resp: 2666874

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.0	60.0
76	12.6	0.0	32.6

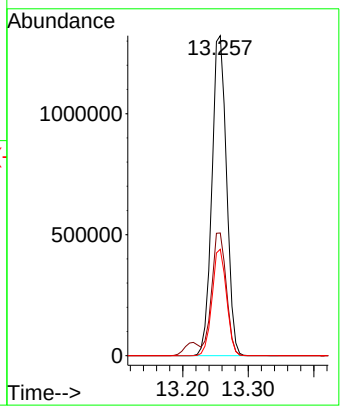




#47
2-Chloronaphthalene
Concen: 42.565 ng
RT: 13.257 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:162 Resp: 204484

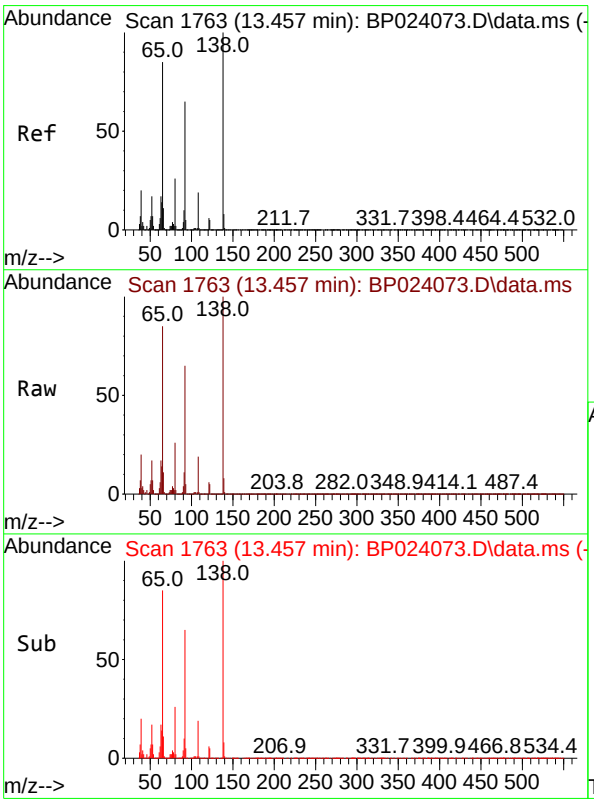
Ion	Ratio	Lower	Upper
162	100		
127	38.4	30.7	46.1
164	33.2	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

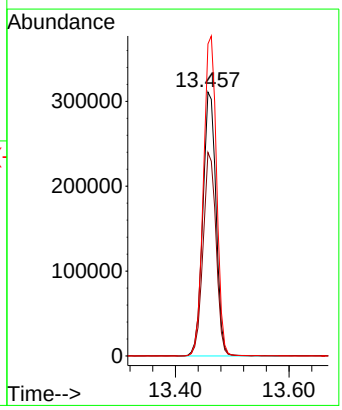
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

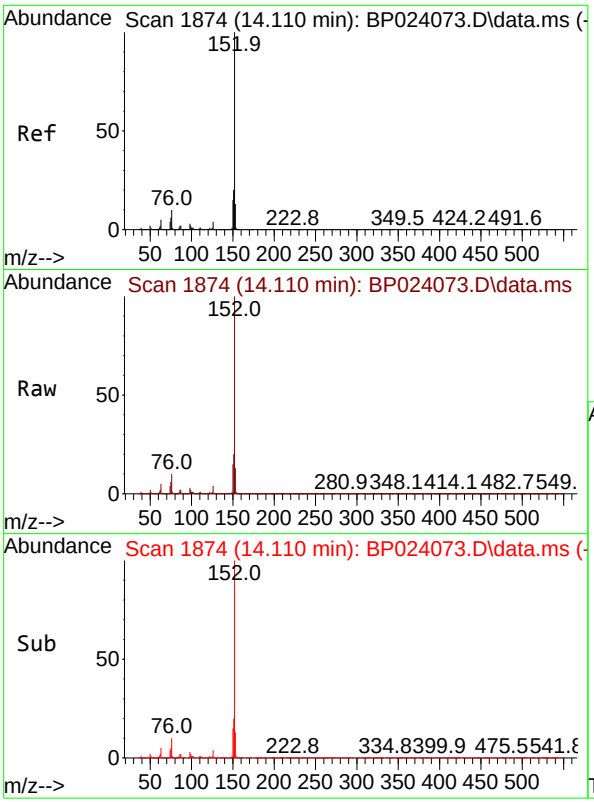


#48
2-Nitroaniline
Concen: 43.931 ng
RT: 13.457 min Scan# 1763
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 65 Resp: 498538

Ion	Ratio	Lower	Upper
65	100		
92	77.1	61.7	92.5
138	118.3	94.6	142.0

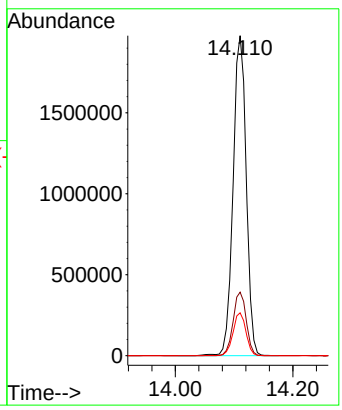




#49
Acenaphthylene
Concen: 43.339 ng
RT: 14.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:152 Resp: 306750

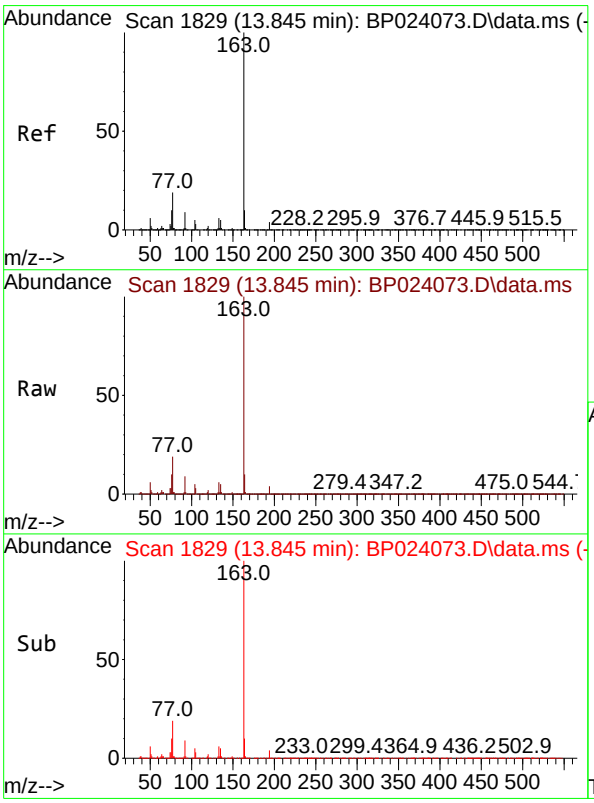
Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

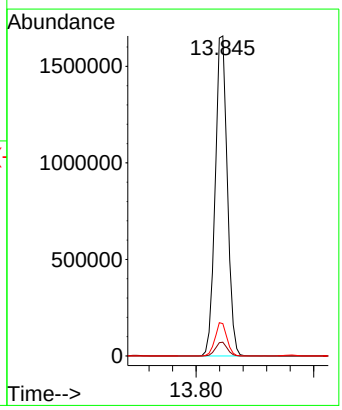
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

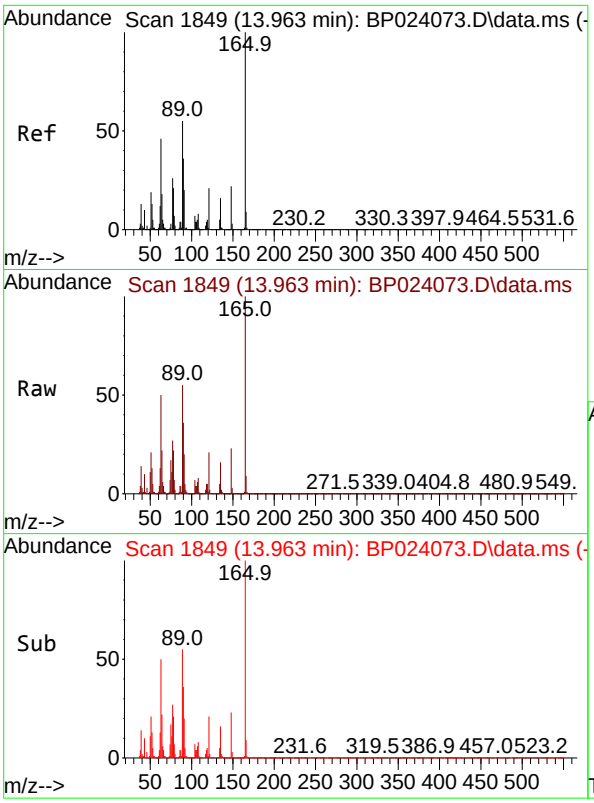


#50
Dimethylphthalate
Concen: 40.985 ng
RT: 13.845 min Scan# 1829
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:163 Resp: 2364371

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.1	8.1	12.1

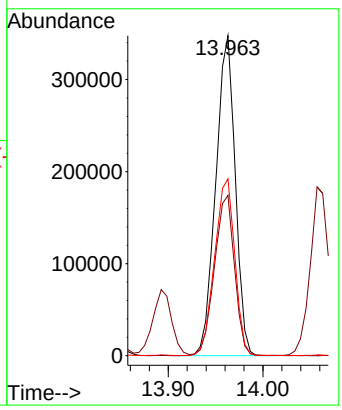




#51
2,6-Dinitrotoluene
Concen: 42.333 ng
RT: 13.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:165 Resp: 49747

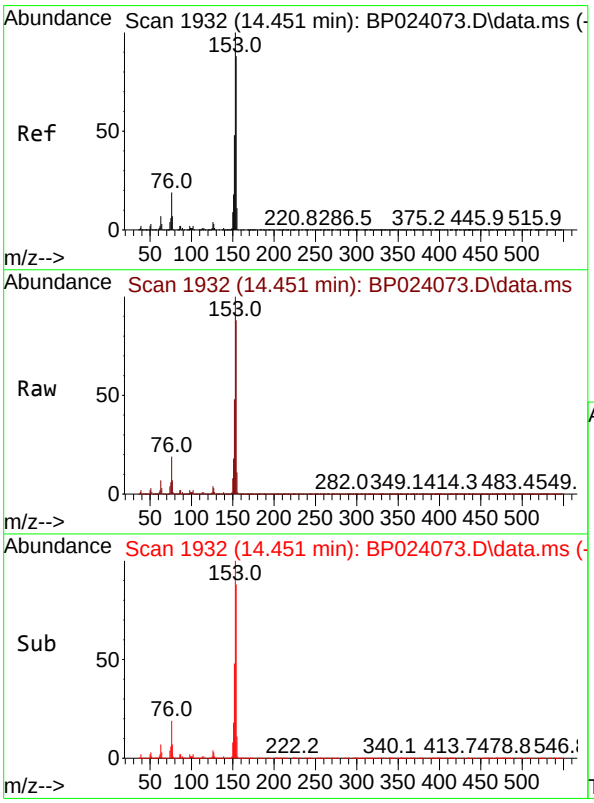
Ion	Ratio	Lower	Upper
165	100		
63	50.1	40.1	60.1
89	55.3	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

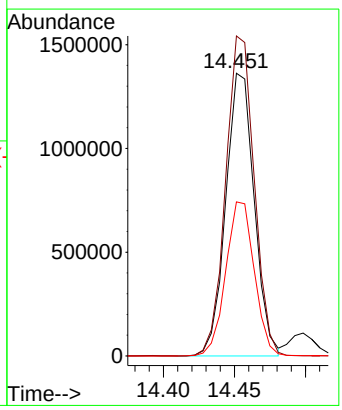
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

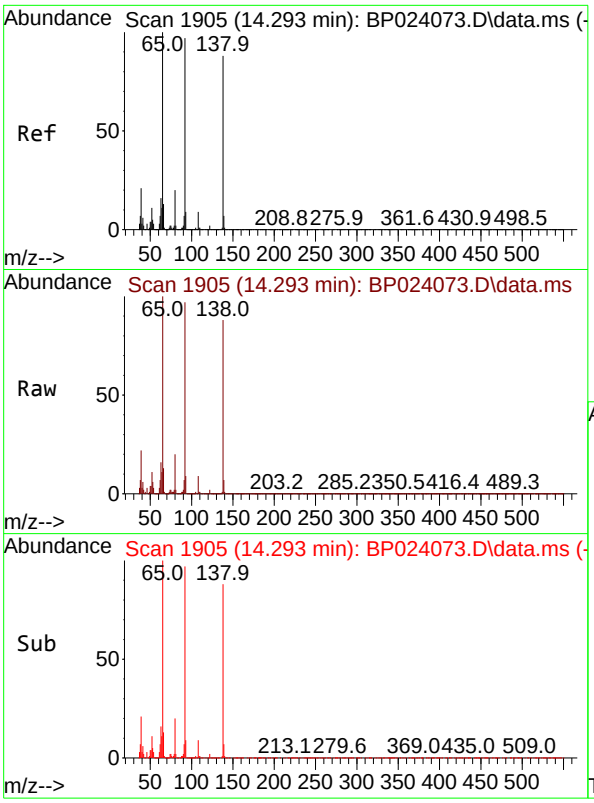


#52
Acenaphthene
Concen: 41.693 ng
RT: 14.451 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:154 Resp: 1900361

Ion	Ratio	Lower	Upper
154	100		
153	113.2	90.6	135.8
152	54.5	43.6	65.4





#53
3-Nitroaniline
Concen: 42.915 ng
RT: 14.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

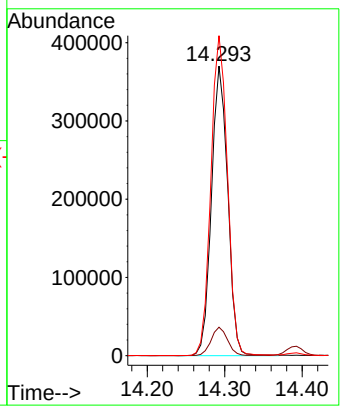
Tgt Ion:138 Resp: 53814

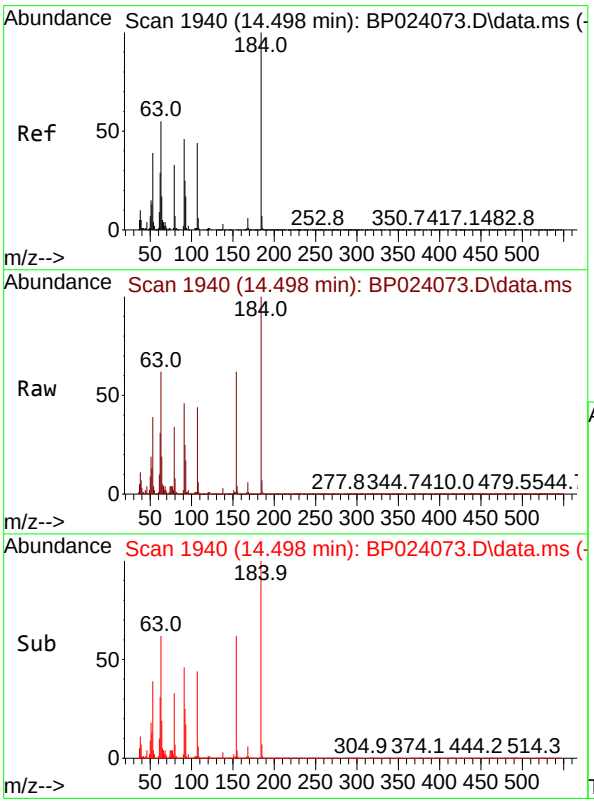
Ion	Ratio	Lower	Upper
138	100		
108	9.8	7.8	11.8
92	110.5	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

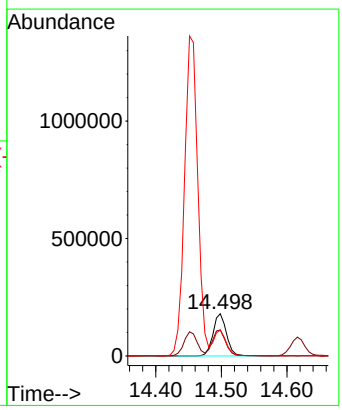


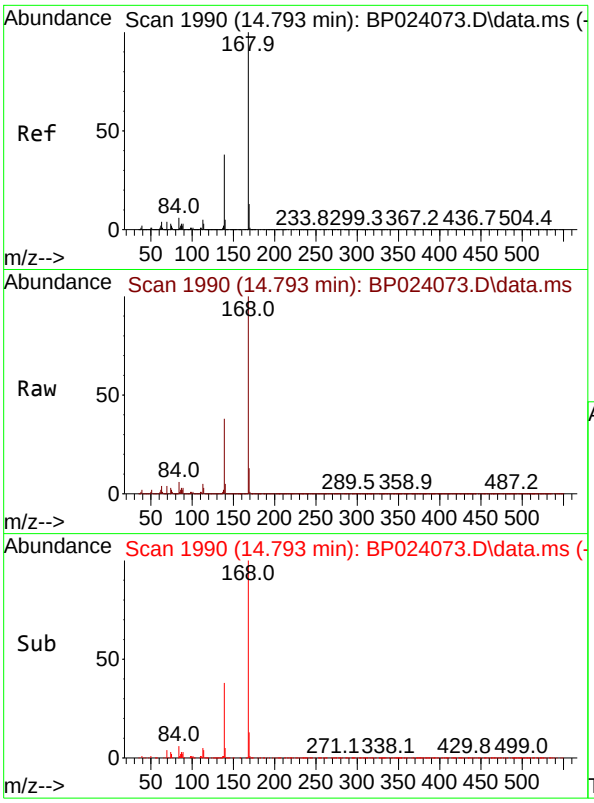


#54
2,4-Dinitrophenol
Concen: 37.484 ng
RT: 14.498 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:184 Resp: 254928

Ion	Ratio	Lower	Upper
184	100		
63	61.7	49.4	74.0
154	61.5	49.2	73.8

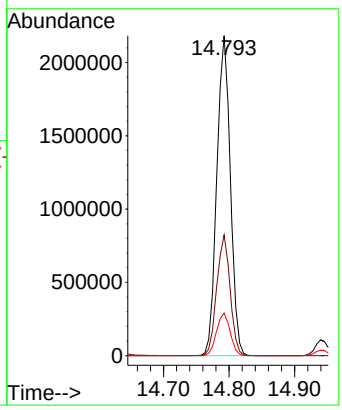




#55
Dibenzofuran
Concen: 41.979 ng
RT: 14.793 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:168 Resp: 310829

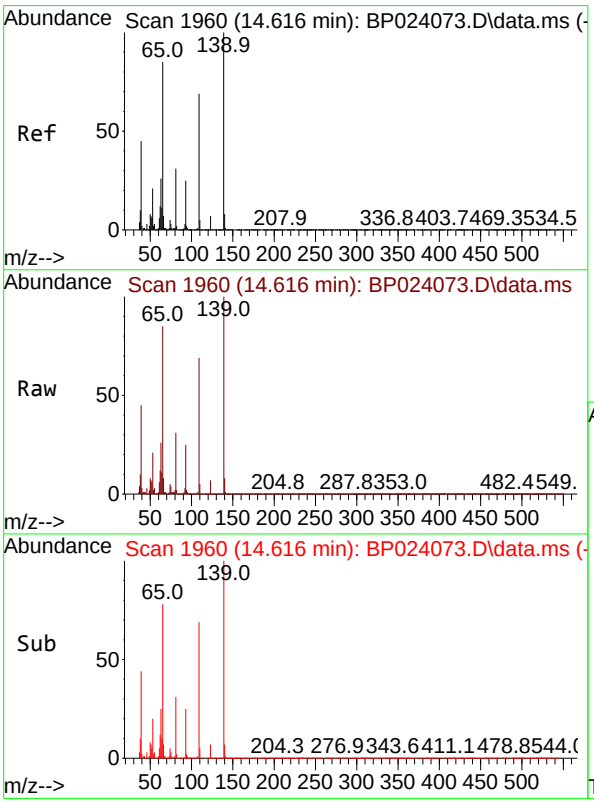
Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.2	45.2
169	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

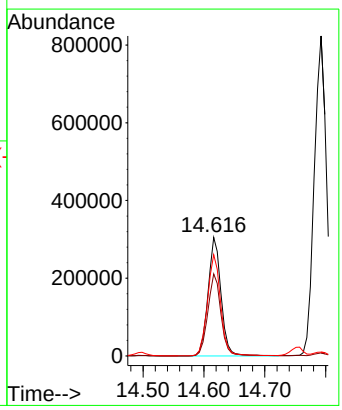
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

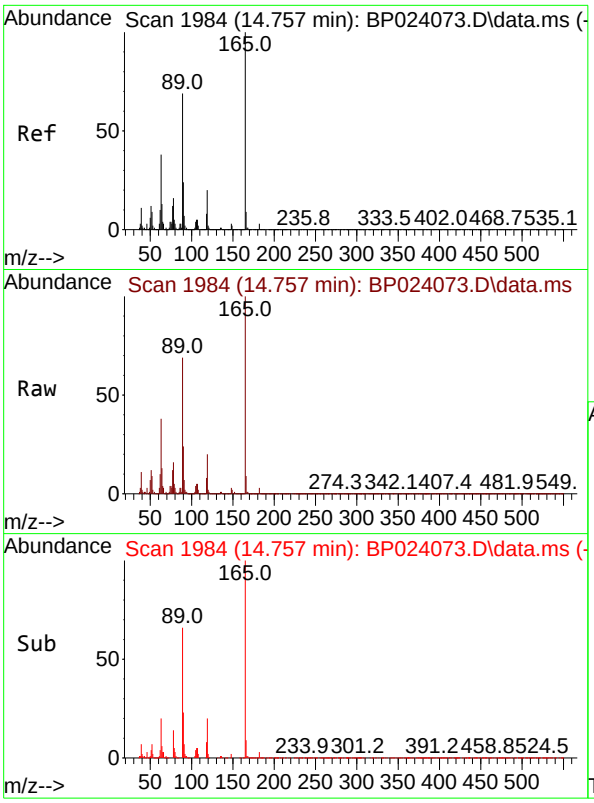


#56
4-Nitrophenol
Concen: 41.805 ng
RT: 14.616 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:139 Resp: 452824

Ion	Ratio	Lower	Upper
139	100		
109	69.2	49.2	89.2
65	85.4	65.4	105.4

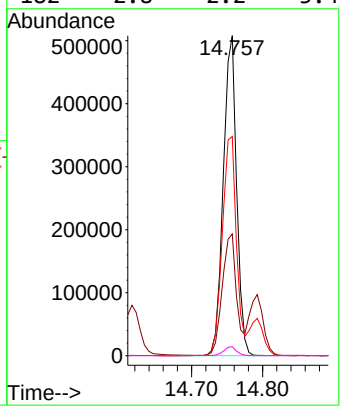




#57
2,4-Dinitrotoluene
Concen: 43.192 ng
RT: 14.757 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:165 Resp: 65934

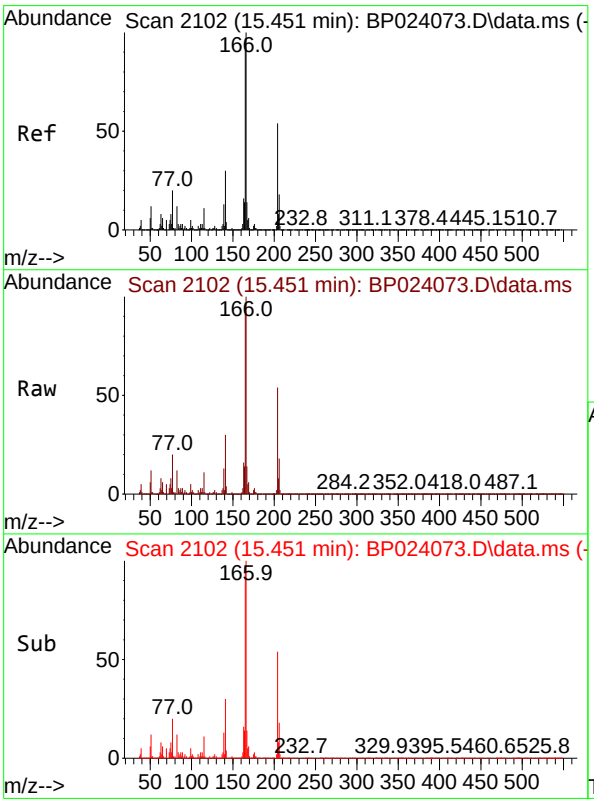
Ion	Ratio	Lower	Upper
165	100		
63	38.0	30.4	45.6
89	68.5	54.8	82.2
182	2.8	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

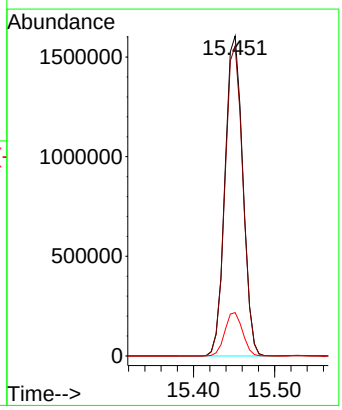
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

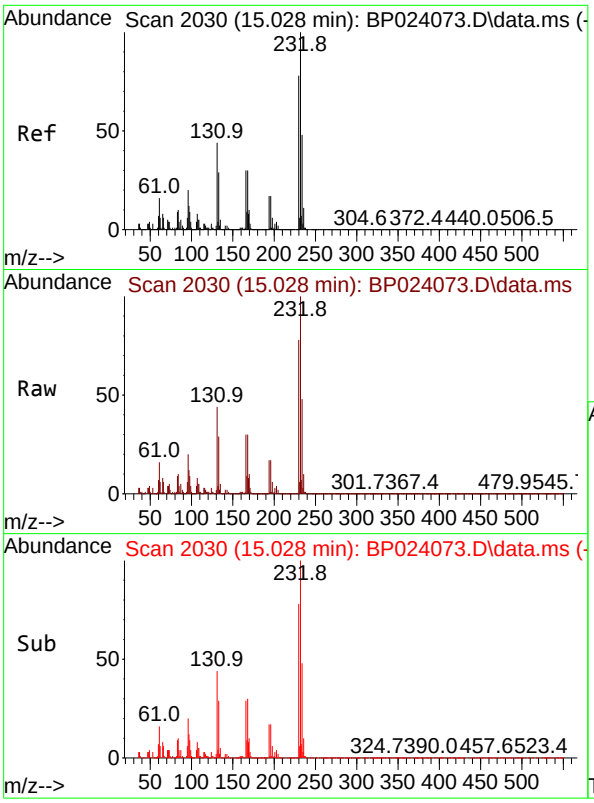


#58
Fluorene
Concen: 42.307 ng
RT: 15.451 min Scan# 2102
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:166 Resp: 2446454

Ion	Ratio	Lower	Upper
166	100		
165	96.9	77.5	116.3
167	13.6	10.9	16.3

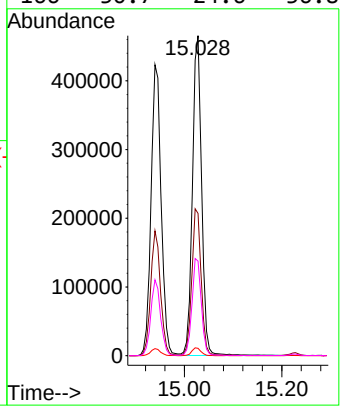




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.261 ng
RT: 15.028 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:232 Resp: 61449

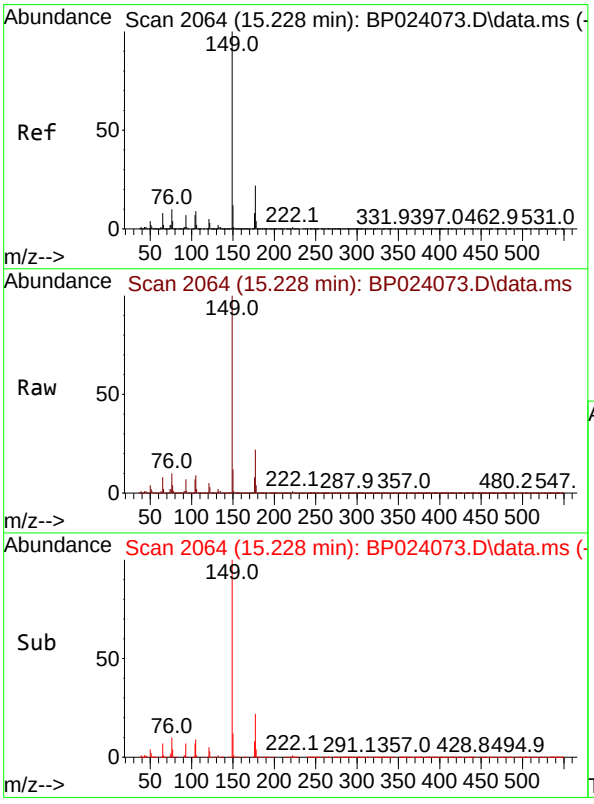
Ion	Ratio	Lower	Upper
232	100		
131	46.6	37.3	55.9
130	2.4	1.9	2.9
166	30.7	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

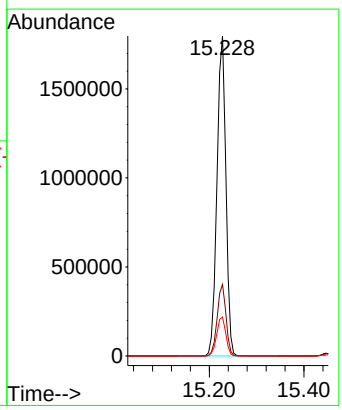
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

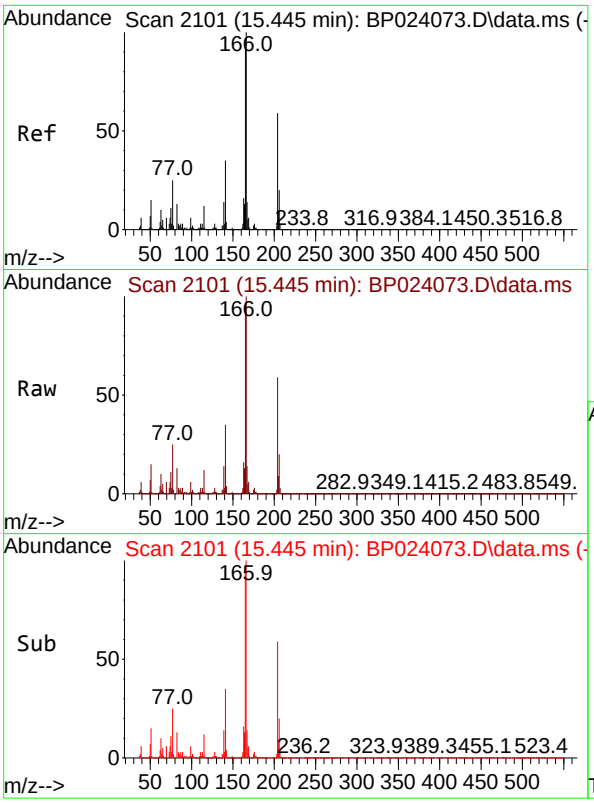


#60
Diethylphthalate
Concen: 40.984 ng
RT: 15.228 min Scan# 2064
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:149 Resp: 2347029

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.2	9.8	14.6

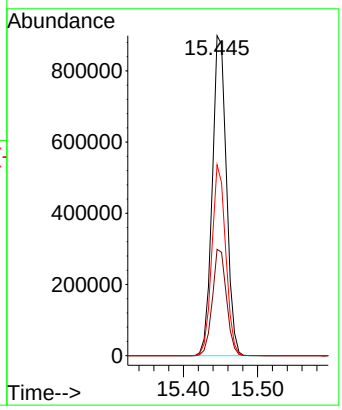




#61
4-Chlorophenyl-phenylether
Concen: 41.796 ng
RT: 15.445 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:204 Resp: 118963

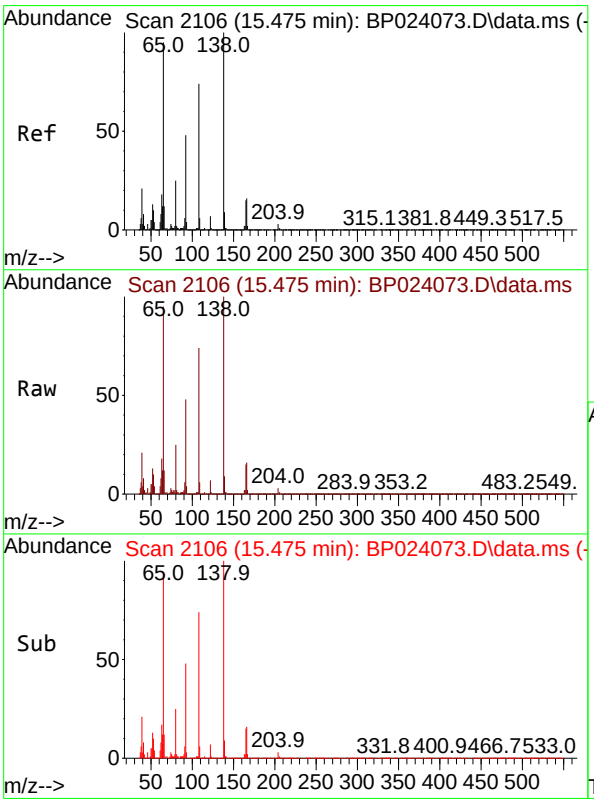
Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	39.8
141	59.7	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

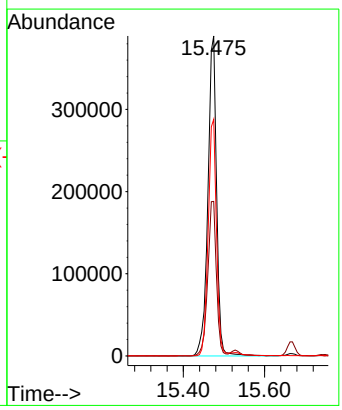
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

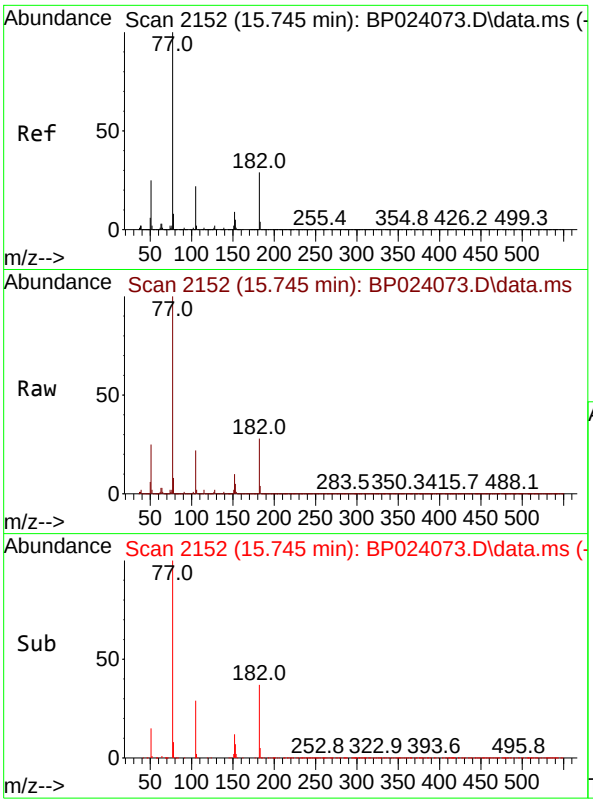


#62
4-Nitroaniline
Concen: 39.548 ng
RT: 15.475 min Scan# 2106
Delta R.T. -0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:138 Resp: 577898

Ion	Ratio	Lower	Upper
138	100		
92	48.3	28.3	68.3
108	74.0	54.0	94.0

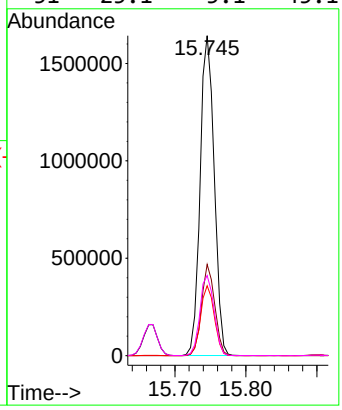




#63
Azobenzene
Concen: 42.281 ng
RT: 15.745 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion: 77 Resp: 226891

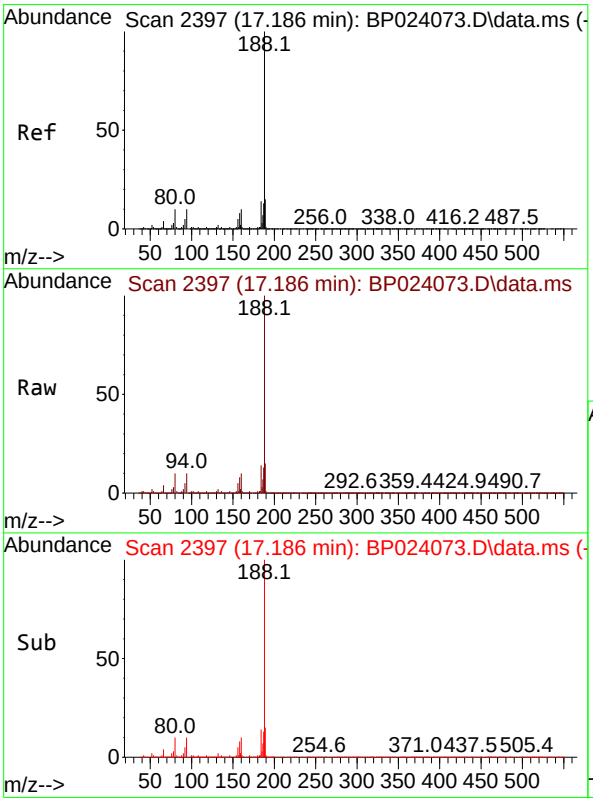
Ion	Ratio	Lower	Upper
77	100		
182	28.5	8.5	48.5
105	21.8	1.8	41.8
51	25.1	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

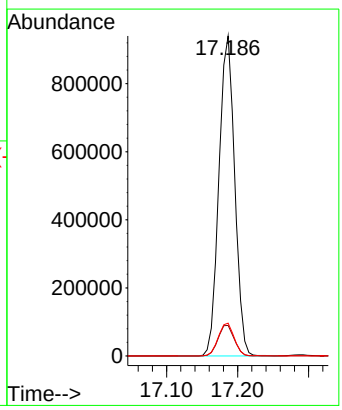
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

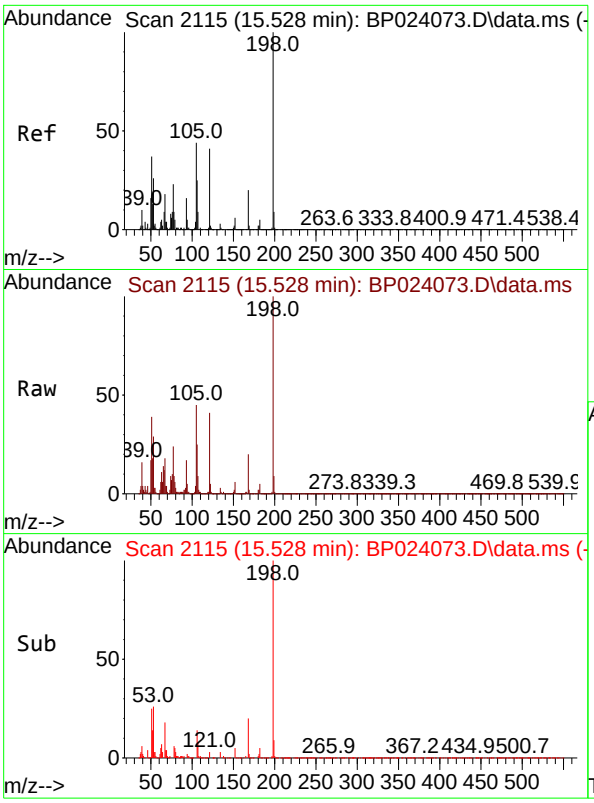


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.186 min Scan# 2397
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:188 Resp: 1445543

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.6	11.4
80	10.2	8.2	12.2





#65
4,6-Dinitro-2-methylphenol
Concen: 39.321 ng
RT: 15.528 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

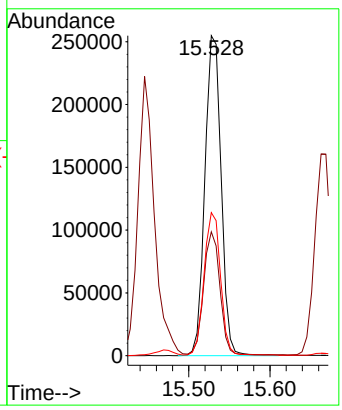
Tgt Ion:198 Resp: 35358

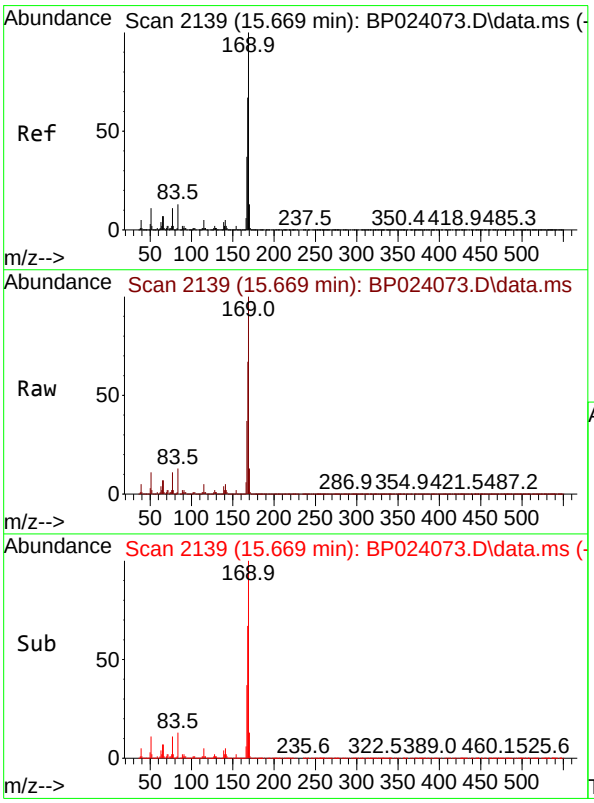
Ion	Ratio	Lower	Upper
198	100		
51	38.7	18.7	58.7
105	44.7	24.7	64.7

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

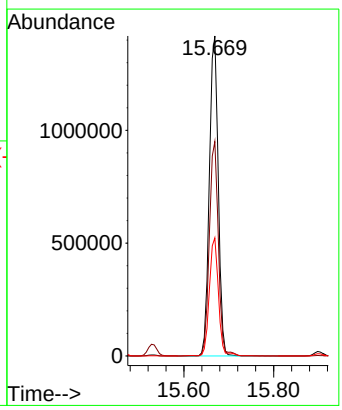


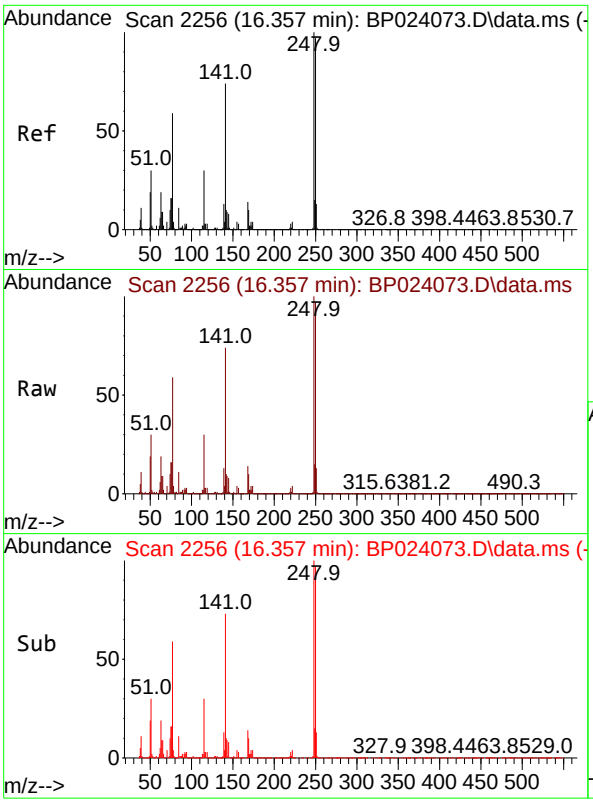


#66
n-Nitrosodiphenylamine
Concen: 43.195 ng
RT: 15.669 min Scan# 2139
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:169 Resp: 1947175

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.6	80.4
167	36.9	29.5	44.3

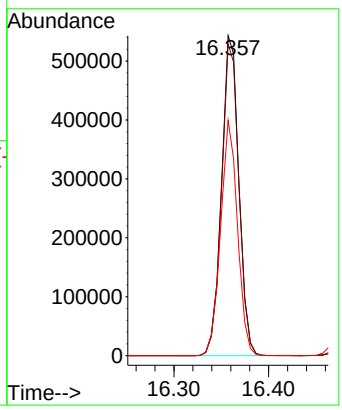




#67
4-Bromophenyl-phenylether
Concen: 42.510 ng
RT: 16.357 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:248 Resp: 69005

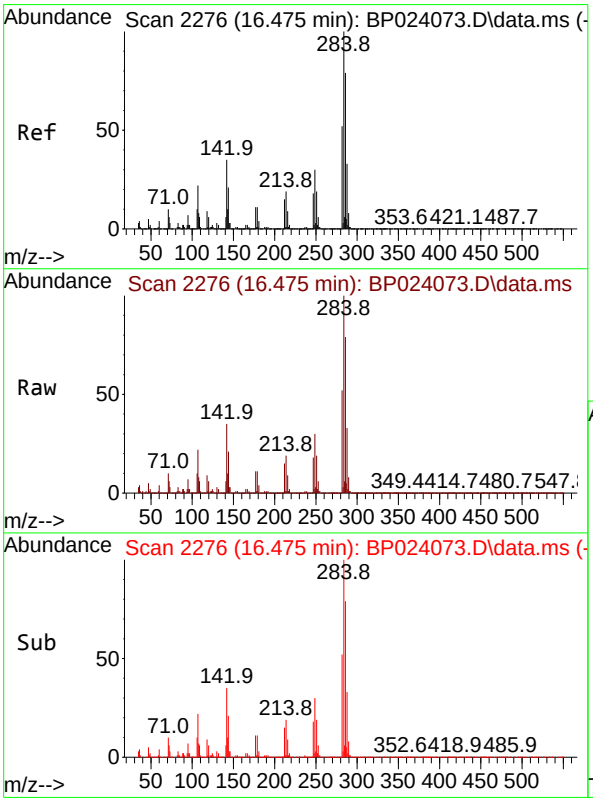
Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.9	116.9
141	73.5	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

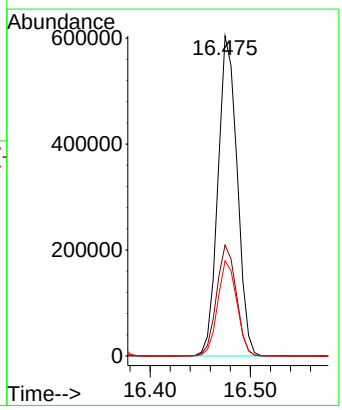
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

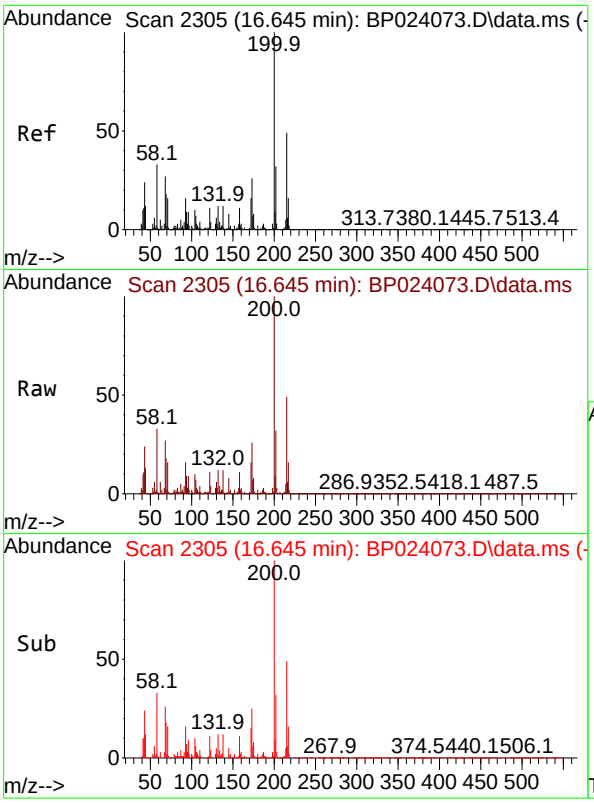


#68
Hexachlorobenzene
Concen: 42.057 ng
RT: 16.475 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:284 Resp: 803320

Ion	Ratio	Lower	Upper
284	100		
142	34.6	27.7	41.5
249	29.7	23.8	35.6

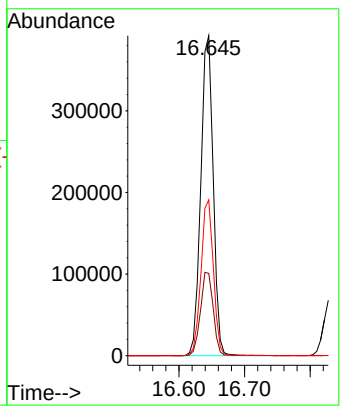




#69
Atrazine
Concen: 44.693 ng
RT: 16.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:200 Resp: 51703

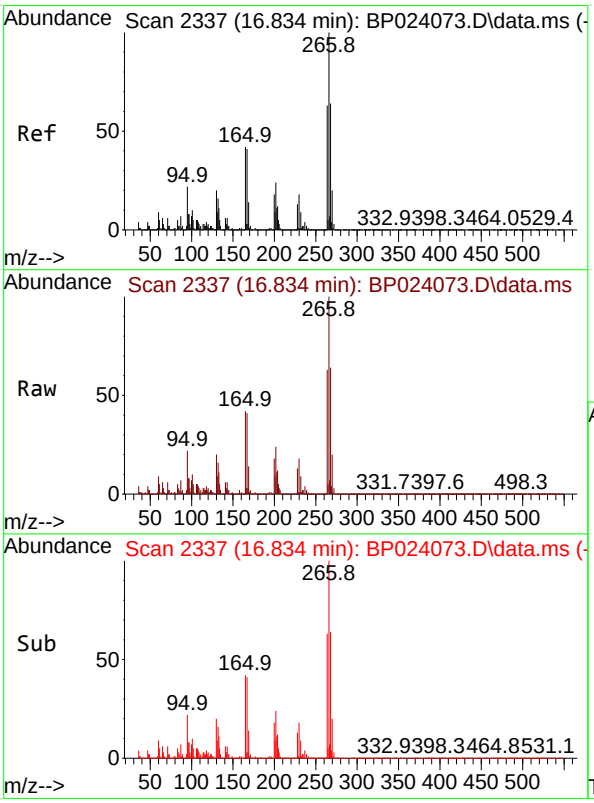
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.7	45.7
215	48.7	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

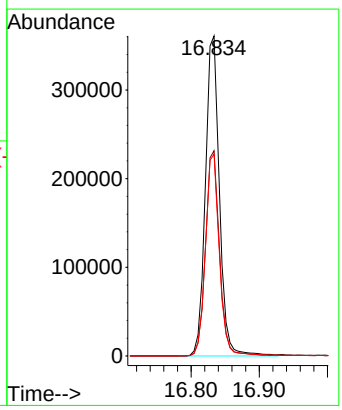
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

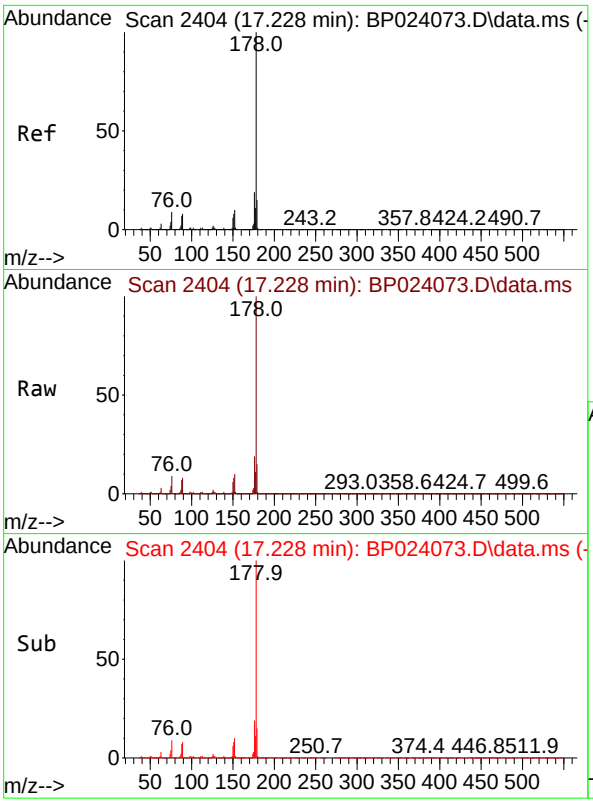


#70
Pentachlorophenol
Concen: 41.737 ng
RT: 16.834 min Scan# 2337
Delta R.T. -0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:266 Resp: 517773

Ion	Ratio	Lower	Upper
266	100		
268	64.1	51.3	76.9
264	63.1	50.5	75.7

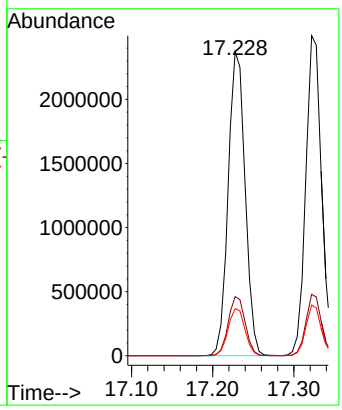




#71
Phenanthrene
Concen: 42.133 ng
RT: 17.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:178 Resp: 343373

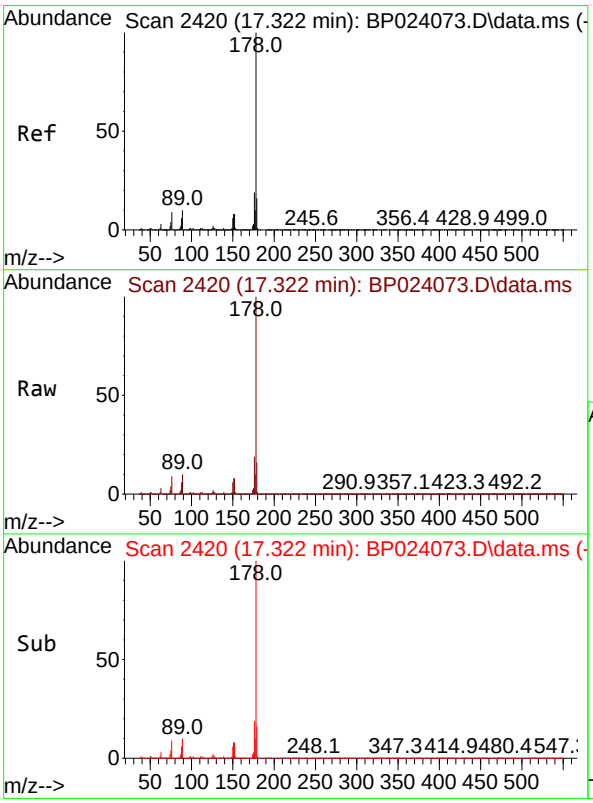
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.5	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

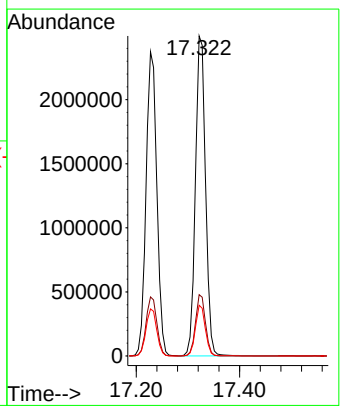
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

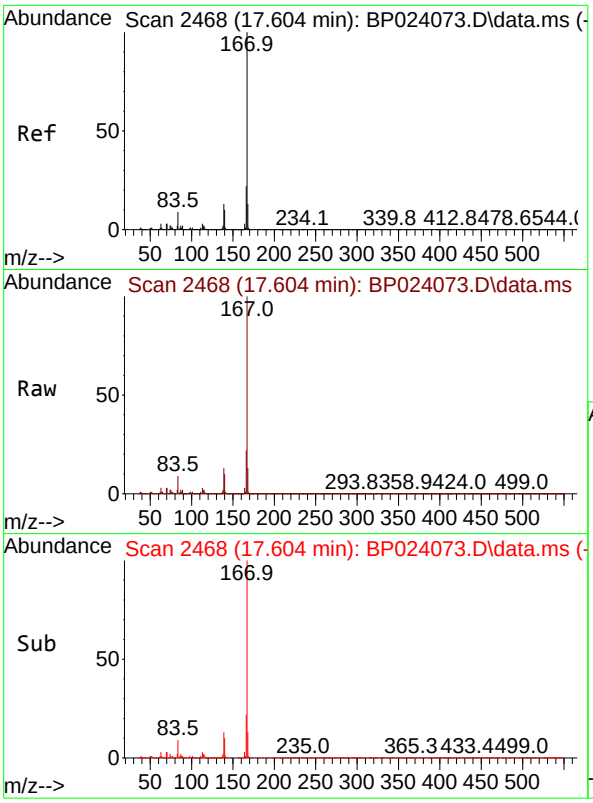


#72
Anthracene
Concen: 43.383 ng
RT: 17.322 min Scan# 2420
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:178 Resp: 3388185

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.8	12.6	19.0

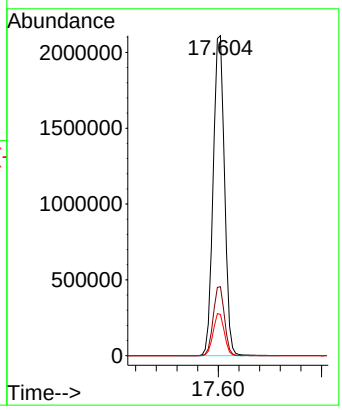




#73
Carbazole
Concen: 43.120 ng
RT: 17.604 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:167 Resp: 320860

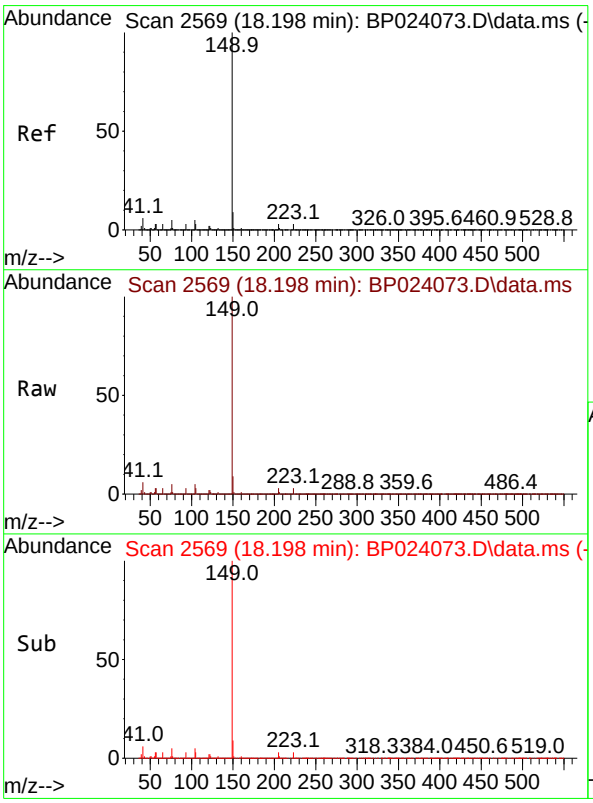
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.9	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

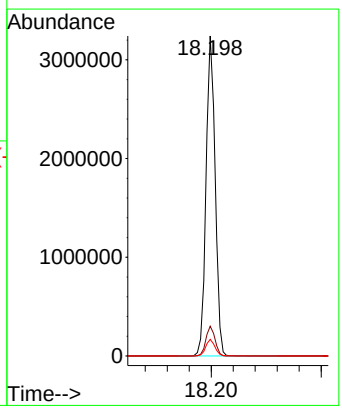
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

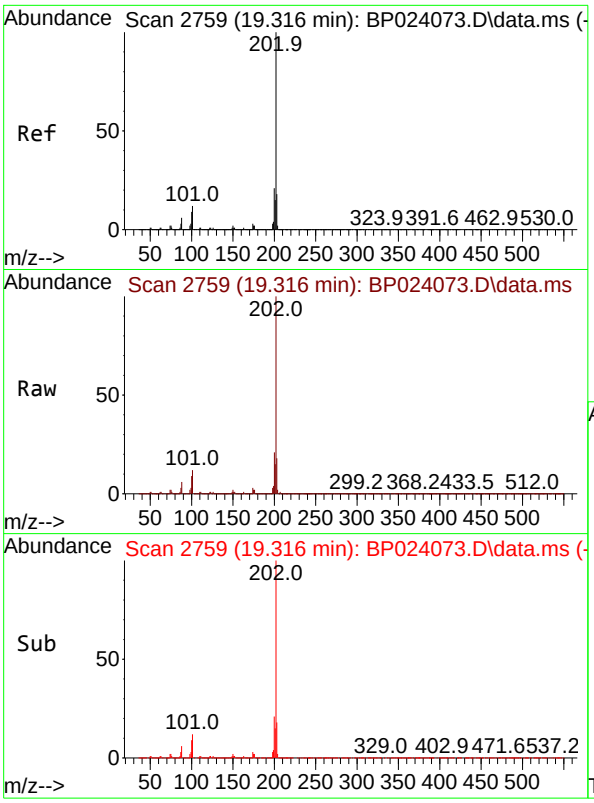


#74
Di-n-butylphthalate
Concen: 42.850 ng
RT: 18.198 min Scan# 2569
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:149 Resp: 3720458

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.2	4.2	6.2





#75
Fluoranthene
Concen: 41.830 ng
RT: 19.316 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

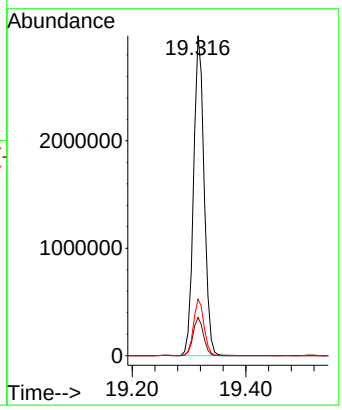
Tgt Ion:202 Resp: 385592

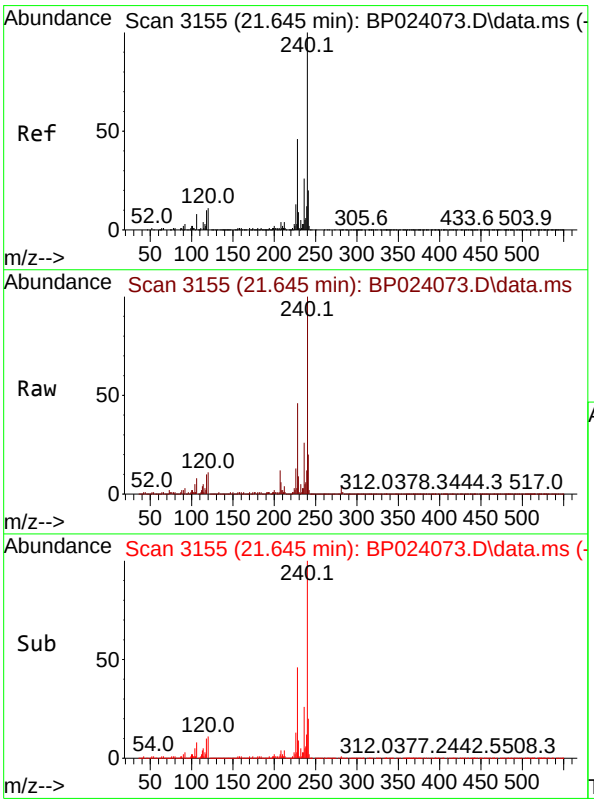
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	31.9
203	17.7	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

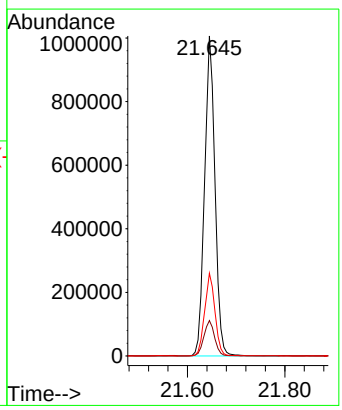


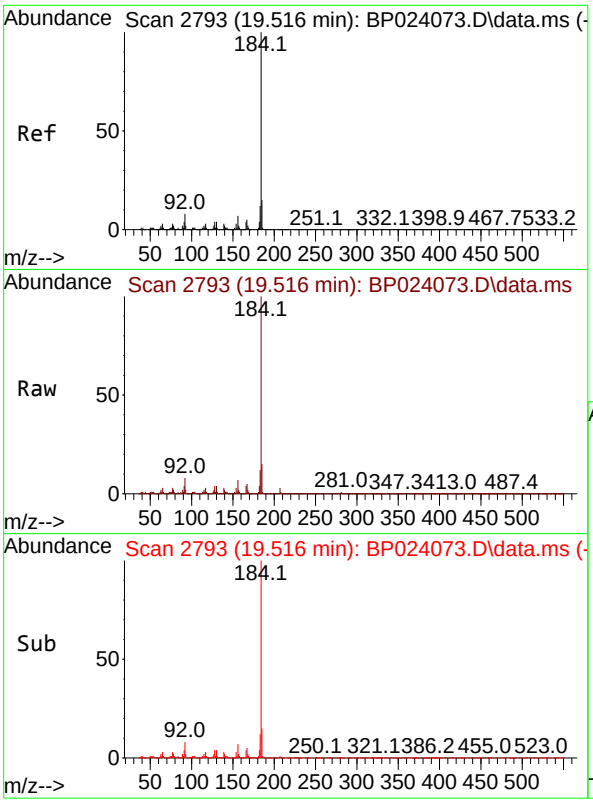


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.645 min Scan# 3155
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:240 Resp: 1488607

Ion	Ratio	Lower	Upper
240	100		
120	11.1	8.9	13.3
236	25.9	20.7	31.1

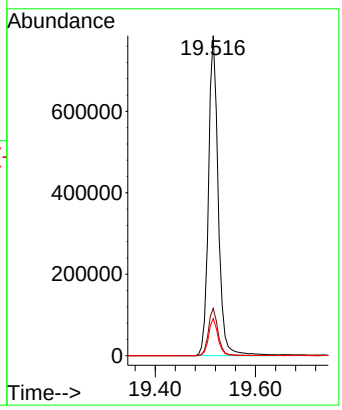




#77
Benzidine
Concen: 58.586 ng
RT: 19.516 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:184 Resp: 106272

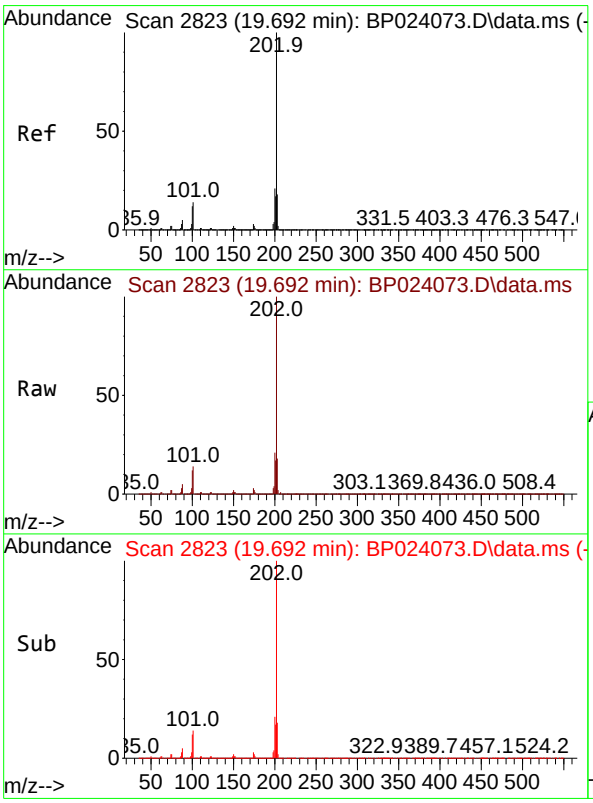
Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.8	17.8
183	11.6	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

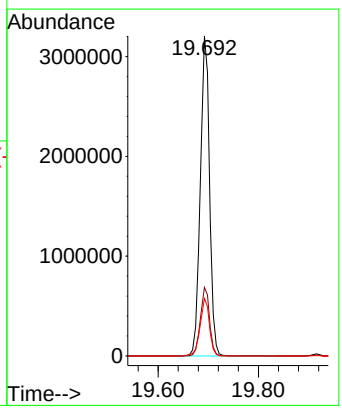
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

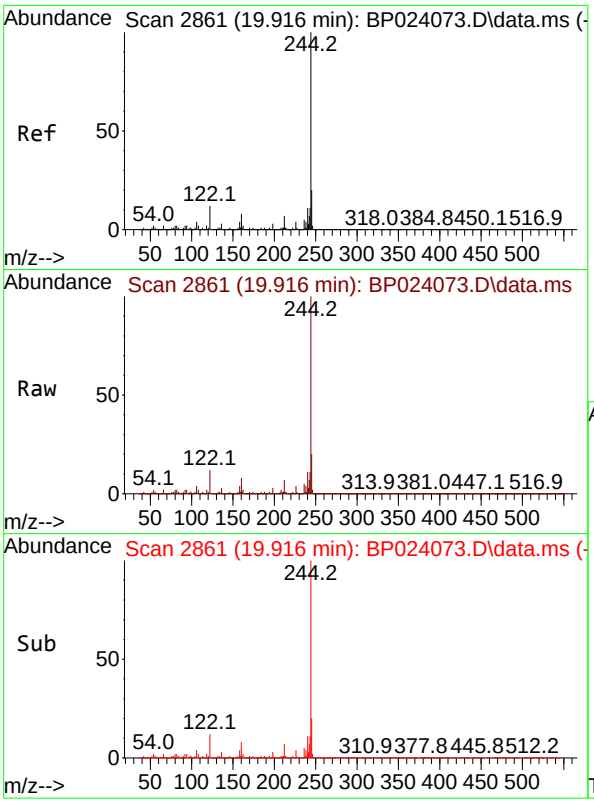


#78
Pyrene
Concen: 43.211 ng
RT: 19.692 min Scan# 2823
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:202 Resp: 4085840

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	18.0	14.4	21.6

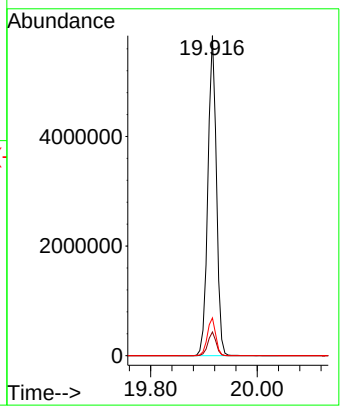




#79
Terphenyl-d14
Concen: 85.790 ng
RT: 19.916 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:244 Resp: 645393

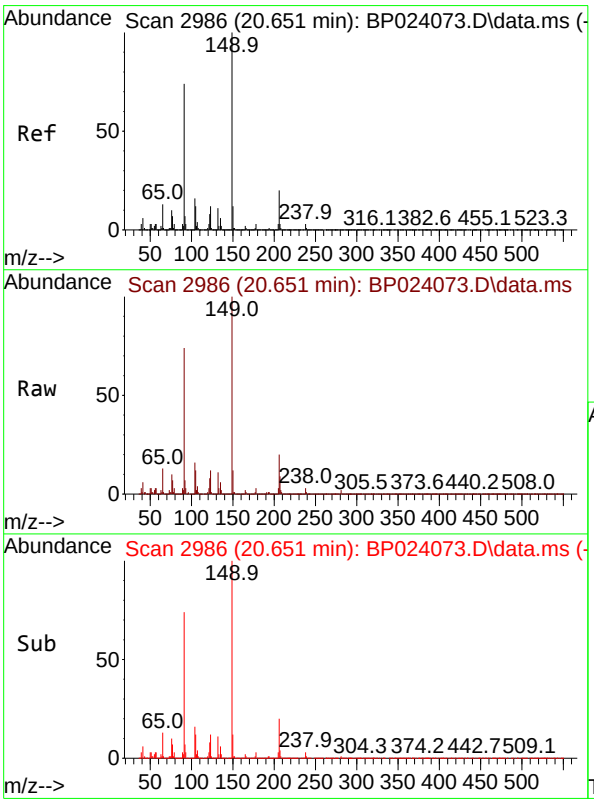
Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.9	8.9
122	11.8	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

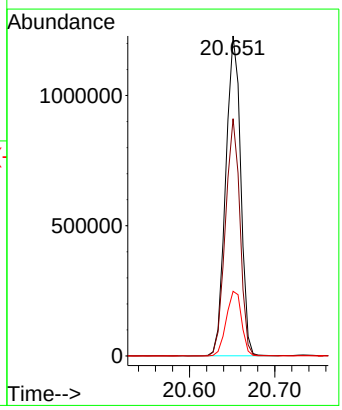
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

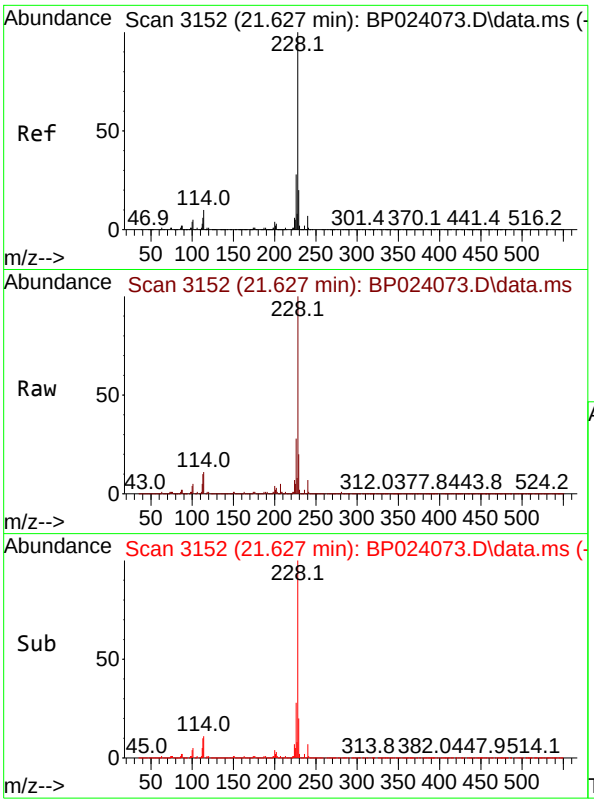


#80
Butylbenzylphthalate
Concen: 41.362 ng
RT: 20.651 min Scan# 2986
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:149 Resp: 1498674

Ion	Ratio	Lower	Upper
149	100		
91	74.2	59.4	89.0
206	20.2	16.2	24.2

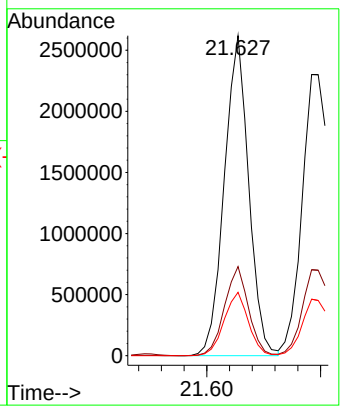




#81
Benzo(a)anthracene
Concen: 41.898 ng
RT: 21.627 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:228 Resp: 391092

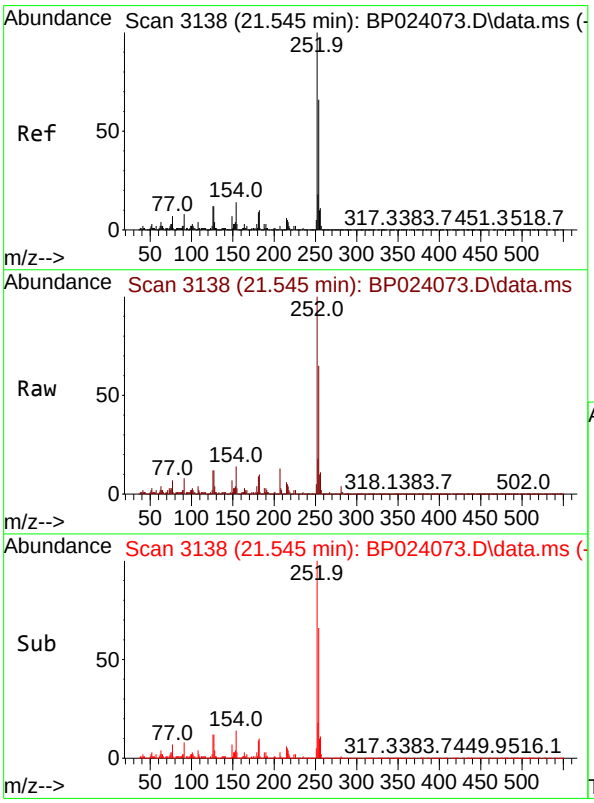
Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	19.8	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

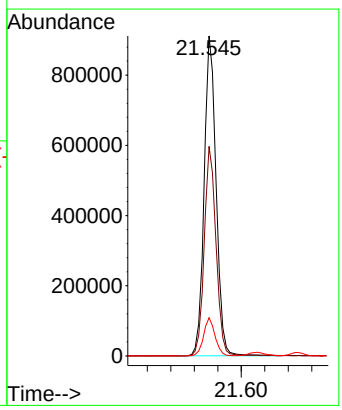
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

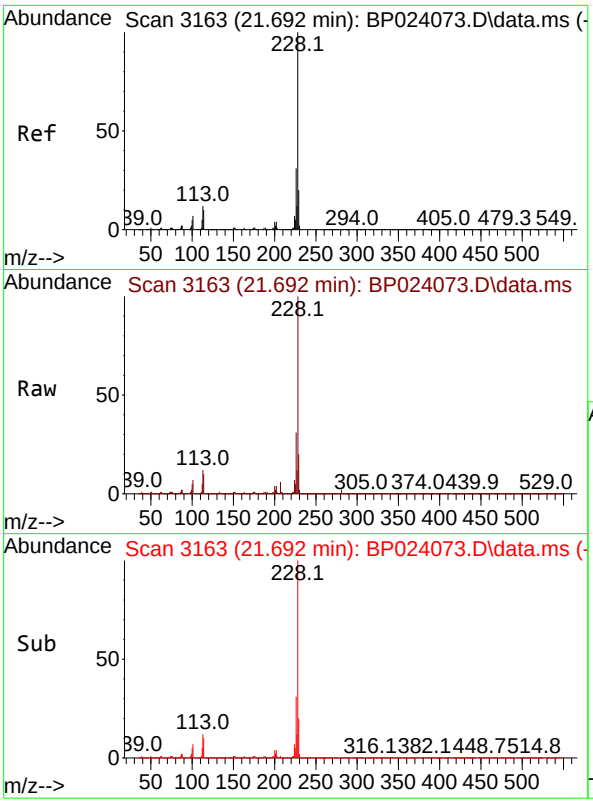


#82
3,3'-Dichlorobenzidine
Concen: 44.269 ng
RT: 21.545 min Scan# 3138
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:252 Resp: 1291245

Ion	Ratio	Lower	Upper
252	100		
254	65.5	52.4	78.6
126	12.0	9.6	14.4

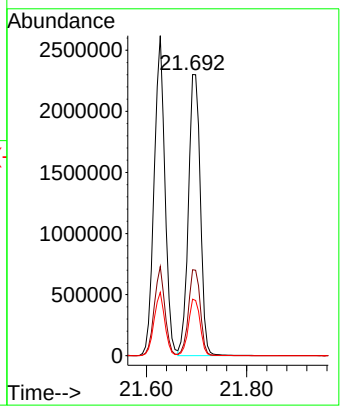




#83
Chrysene
Concen: 42.140 ng
RT: 21.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:228 Resp: 379293

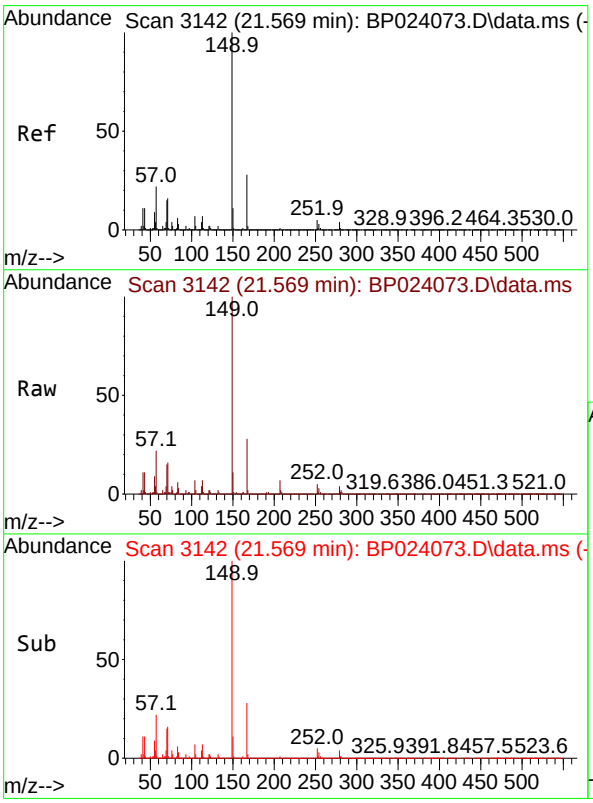
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.1	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

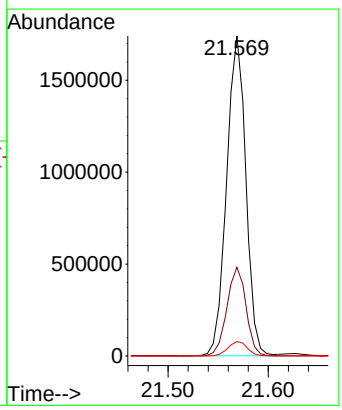
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

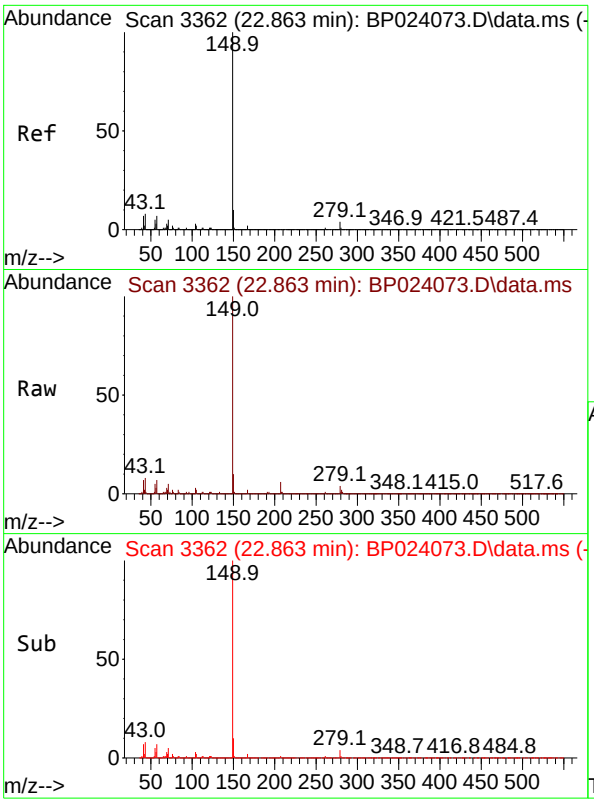


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.238 ng
RT: 21.569 min Scan# 3142
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:149 Resp: 2320794

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.2
279	4.5	3.6	5.4

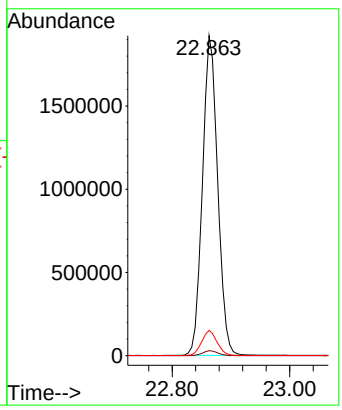




#85
Di-n-octyl phthalate
Concen: 39.330 ng
RT: 22.863 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:149 Resp: 345416

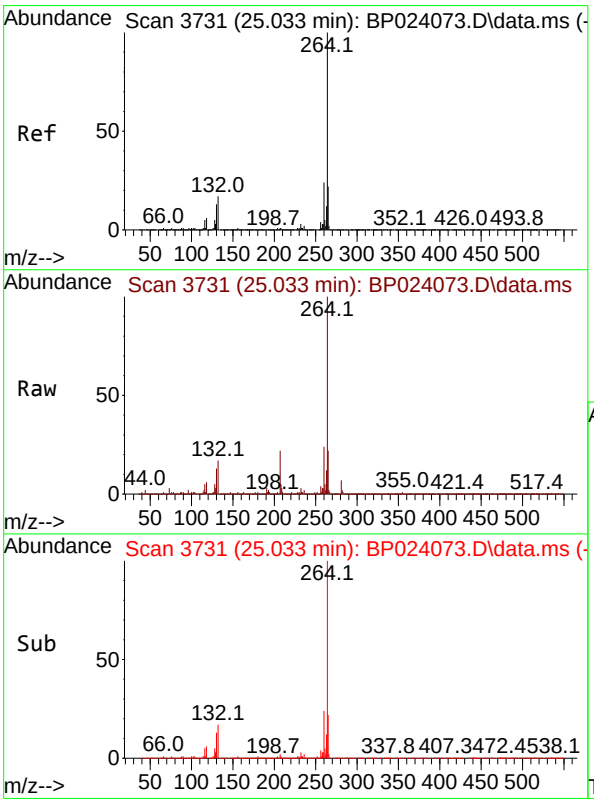
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

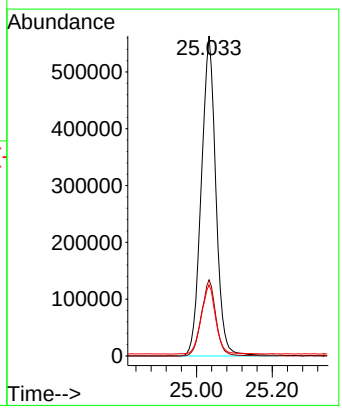
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

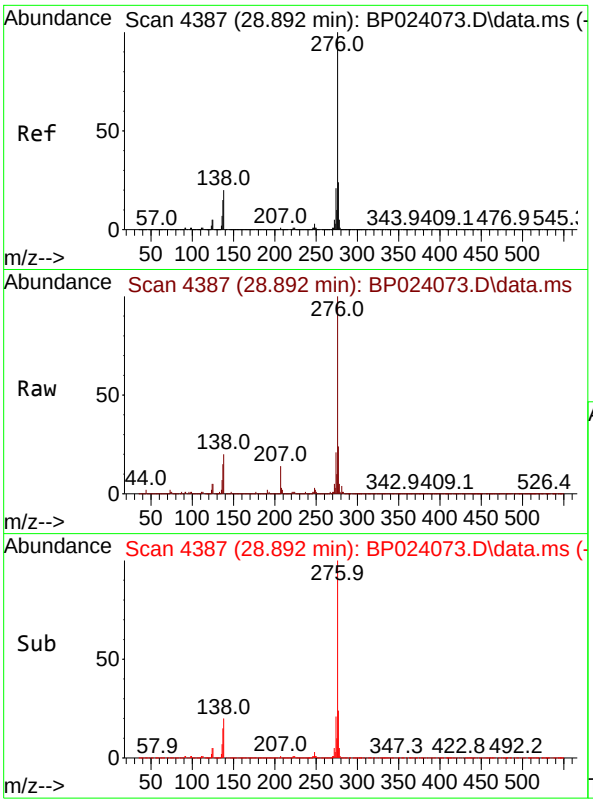


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.033 min Scan# 3731
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:264 Resp: 1494142

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.0	28.6
265	22.3	17.8	26.8

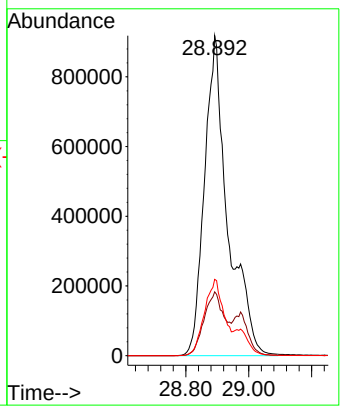




#87
Indeno(1,2,3-cd)pyrene
Concen: 44.495 ng m
RT: 28.892 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:276 Resp: 473188

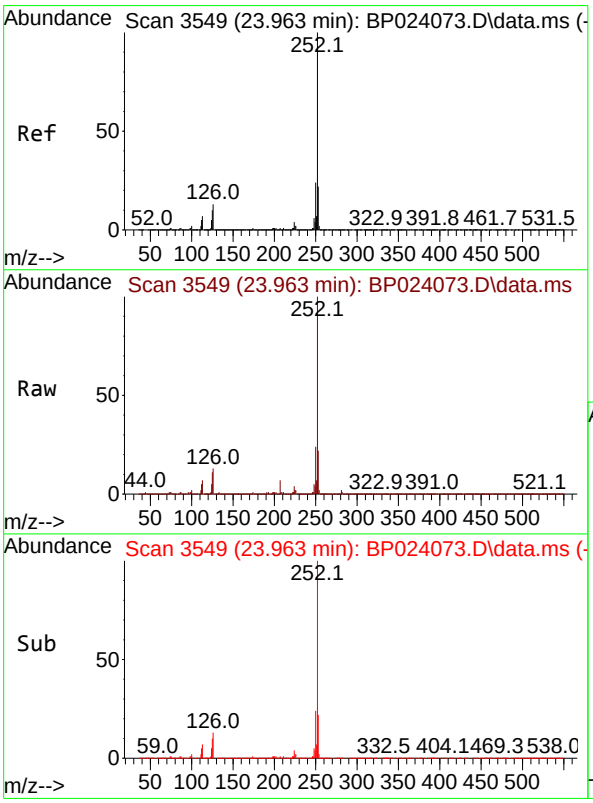
Ion	Ratio	Lower	Upper
276	100		
138	17.8	14.2	21.4
277	20.3	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

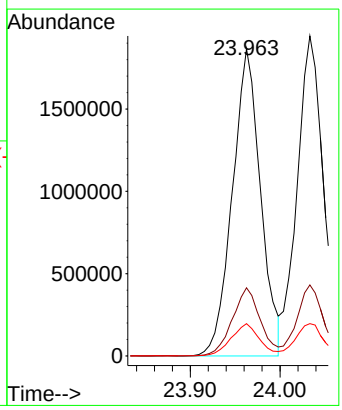
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

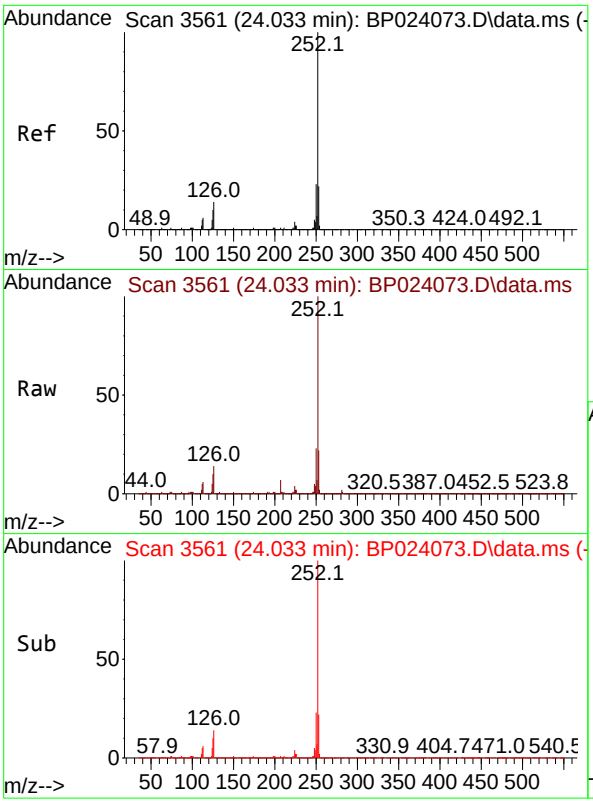


#88
Benzo(b)fluoranthene
Concen: 42.938 ng
RT: 23.963 min Scan# 3549
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:252 Resp: 4074090

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.5	8.4	12.6

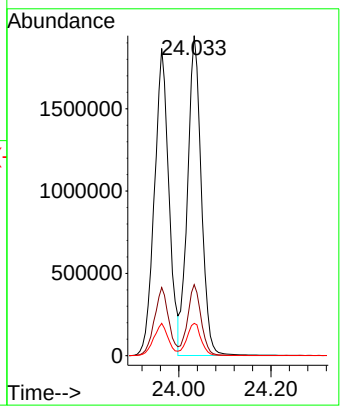




#89
Benzo(k)fluoranthene
Concen: 43.310 ng
RT: 24.033 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:252 Resp: 399983

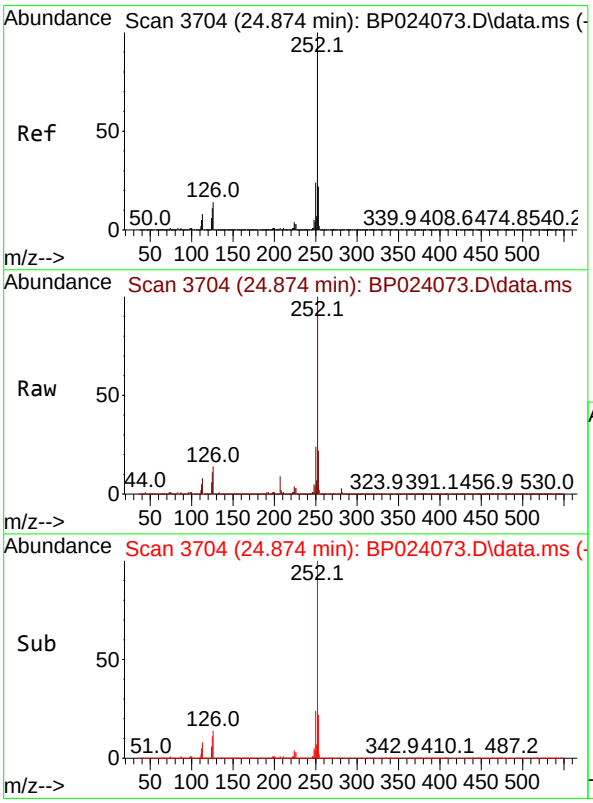
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.1	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

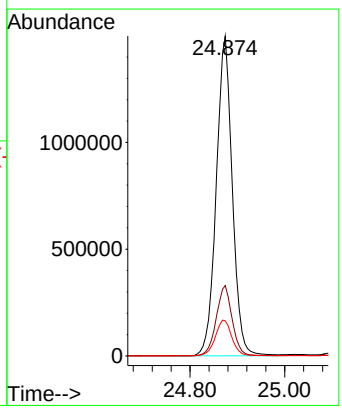
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

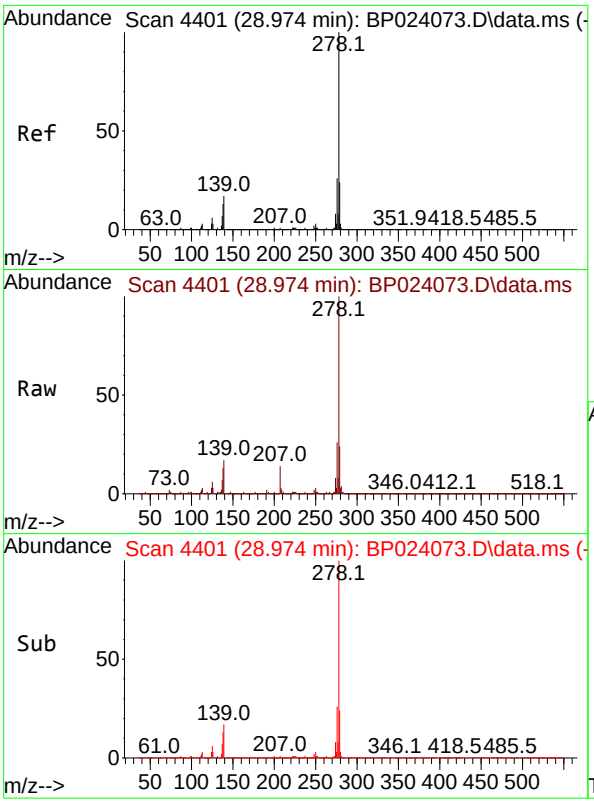


#90
Benzo(a)pyrene
Concen: 43.686 ng
RT: 24.874 min Scan# 3704
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:252 Resp: 3517674

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	11.0	8.8	13.2

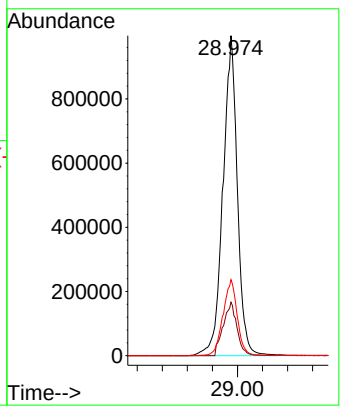




#91
Dibenzo(a,h)anthracene
Concen: 44.491 ng
RT: 28.974 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:278 Resp: 397641

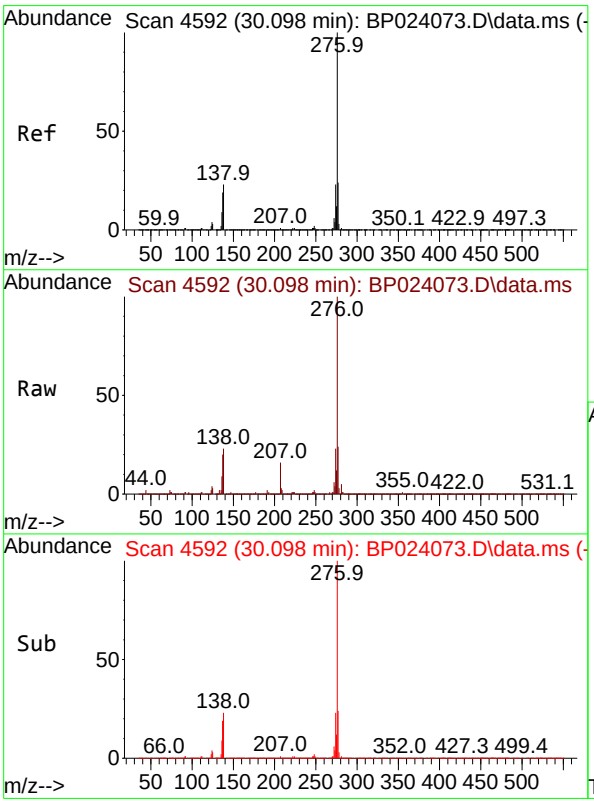
Ion	Ratio	Lower	Upper
278	100		
139	16.7	13.4	20.0
279	23.7	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

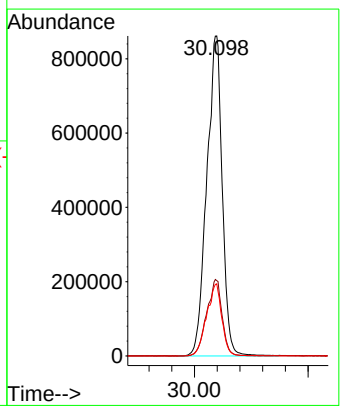
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025



#92
Benzo(g,h,i)perylene
Concen: 44.721 ng
RT: 30.098 min Scan# 4592
Delta R.T. 0.000 min
Lab File: BP024073.D
Acq: 17 Feb 2025 14:12

Tgt Ion:276 Resp: 4055870

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.9	28.3
138	22.6	18.1	27.1



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024074.D
Acq On : 17 Feb 2025 14:52
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 18 02:03:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.758	152	401101	20.000	ng	0.00
21) Naphthalene-d8	10.540	136	1615724	20.000	ng	0.00
39) Acenaphthene-d10	14.393	164	981933	20.000	ng	0.00
64) Phenanthrene-d10	17.187	188	1856340	20.000	ng	0.00
76) Chrysene-d12	21.639	240	1908683	20.000	ng	0.00
86) Perylene-d12	25.021	264	1919125	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2554204	99.363	ng	0.00
7) Phenol-d6	6.946	99	3397220	102.826	ng	0.00
23) Nitrobenzene-d5	8.911	82	2908711	100.434	ng	0.00
42) 2,4,6-Tribromophenol	15.904	330	1309117	108.843	ng	0.00
45) 2-Fluorobiphenyl	13.004	172	6747438	96.065	ng	0.00
79) Terphenyl-d14	19.916	244	9812397	101.726	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.311	88	474544	47.060	ng	100
3) Pyridine	3.705	79	1301636m	49.596	ng	
4) n-Nitrosodimethylamine	3.611	42	458775	49.333	ng	95
6) Aniline	7.099	93	1546490	51.113	ng	99
8) 2-Chlorophenol	7.334	128	1366237	50.215	ng	99
9) Benzaldehyde	6.911	77	693208	45.956	ng	99
10) Phenol	6.969	94	1685931	50.746	ng	100
11) bis(2-Chloroethyl)ether	7.187	93	1313040	50.179	ng	100
12) 1,3-Dichlorobenzene	7.652	146	1473556	49.299	ng	99
13) 1,4-Dichlorobenzene	7.793	146	1487495	49.209	ng	99
14) 1,2-Dichlorobenzene	8.111	146	1434540	49.450	ng	100
15) Benzyl Alcohol	7.999	79	1074856	53.149	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.287	45	1282012	50.470	ng	99
17) 2-Methylphenol	8.205	107	1076108	53.152	ng	99
18) Hexachloroethane	8.834	117	537993	49.420	ng	99
19) n-Nitroso-di-n-propyla...	8.563	70	962428	54.179	ng	99
20) 3+4-Methylphenols	8.528	107	1469837	53.367	ng	100
22) Acetophenone	8.575	105	2060849	49.635	ng	99
24) Nitrobenzene	8.946	77	1412533	49.558	ng	99
25) Isophorone	9.475	82	2500792	52.803	ng	100
26) 2-Nitrophenol	9.658	139	703942	53.607	ng	97
27) 2,4-Dimethylphenol	9.722	122	893376	51.828	ng	99
28) bis(2-Chloroethoxy)met...	9.952	93	1712421	49.912	ng	99
29) 2,4-Dichlorophenol	10.193	162	1244264	52.894	ng	99
30) 1,2,4-Trichlorobenzene	10.405	180	1324542	49.145	ng	100
31) Naphthalene	10.587	128	4267455	49.121	ng	100
32) Benzoic acid	9.875	122	874212	48.284	ng	99
33) 4-Chloroaniline	10.699	127	1599816	52.272	ng	99
34) Hexachlorobutadiene	10.875	225	761289	48.767	ng	99
35) Caprolactam	11.493	113	400942	50.301	ng	98
36) 4-Chloro-3-methylphenol	11.834	107	1316347	54.434	ng	100
37) 2-Methylnaphthalene	12.199	142	2952858	51.138	ng	99
38) 1-Methylnaphthalene	12.422	142	2893959	51.518	ng	99
40) 1,2,4,5-Tetrachloroben...	12.569	216	1457845	48.320	ng	100
41) Hexachlorocyclopentadiene	12.551	237	564942	50.321	ng	99
43) 2,4,6-Trichlorophenol	12.810	196	958494	52.094	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024074.D
Acq On : 17 Feb 2025 14:52
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 18 02:03:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.893	196	1042099	51.788	ng	99
46) 1,1'-Biphenyl	13.216	154	3717437	48.720	ng	100
47) 2-Chloronaphthalene	13.263	162	2782459	48.239	ng	100
48) 2-Nitroaniline	13.463	65	729962	53.574	ng	95
49) Acenaphthylene	14.116	152	4269178	50.236	ng	99
50) Dimethylphthalate	13.851	163	3523238	50.867	ng	100
51) 2,6-Dinitrotoluene	13.963	165	745745	52.855	ng	99
52) Acenaphthene	14.463	154	2717308	49.653	ng	100
53) 3-Nitroaniline	14.298	138	825856	54.853	ng	98
54) 2,4-Dinitrophenol	14.504	184	414065	47.964	ng	97
55) Dibenzofuran	14.798	168	4400884	49.503	ng	99
56) 4-Nitrophenol	14.628	139	703877	54.122	ng	97
57) 2,4-Dinitrotoluene	14.763	165	1010603	55.138	ng	96
58) Fluorene	15.457	166	3530097	50.844	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.034	232	924117	52.933	ng	99
60) Diethylphthalate	15.234	149	3568867	51.905	ng	100
61) 4-Chlorophenyl-phenyle...	15.451	204	1732867	50.707	ng	98
62) 4-Nitroaniline	15.481	138	871498	48.832	ng	97
63) Azobenzene	15.751	77	3271385	50.774	ng	98
65) 4,6-Dinitro-2-methylph...	15.540	198	572186	47.987	ng	96
66) n-Nitrosodiphenylamine	15.669	169	2882057	49.786	ng	100
67) 4-Bromophenyl-phenylether	16.363	248	1062285	50.959	ng	97
68) Hexachlorobenzene	16.481	284	1229587	50.128	ng	99
69) Atrazine	16.645	200	731053	49.209	ng	100
70) Pentachlorophenol	16.834	266	851580	53.454	ng	99
71) Phenanthrene	17.234	178	5171174	49.410	ng	100
72) Anthracene	17.328	178	5067711	50.529	ng	100
73) Carbazole	17.610	167	4939245	51.689	ng	100
74) Di-n-butylphthalate	18.198	149	6059028	54.342	ng	99
75) Fluoranthene	19.316	202	6088138	51.430	ng	99
77) Benzidine	19.516	184	565766	24.325	ng	99
78) Pyrene	19.692	202	6274442	51.753	ng	100
80) Butylbenzylphthalate	20.645	149	2541058	54.696	ng	96
81) Benzo(a)anthracene	21.616	228	6125971	51.184	ng	99
82) 3,3'-Dichlorobenzidine	21.545	252	1884681	50.393	ng	99
83) Chrysene	21.692	228	5779608	50.080	ng	100
84) Bis(2-ethylhexyl)phtha...	21.563	149	3950631	56.077	ng	100
85) Di-n-octyl phthalate	22.863	149	6065533	53.864	ng	99
87) Indeno(1,2,3-cd)pyrene	28.886	276	6954933m	50.917	ng	
88) Benzo(b)fluoranthene	23.963	252	6273269	51.475	ng	100
89) Benzo(k)fluoranthene	24.033	252	6086899	51.313	ng	100
90) Benzo(a)pyrene	24.868	252	5378549	52.004	ng	99
91) Dibenzo(a,h)anthracene	28.968	278	5858804	51.037	ng	99
92) Benzo(g,h,i)perylene	30.080	276	5859496	50.301	ng	99

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

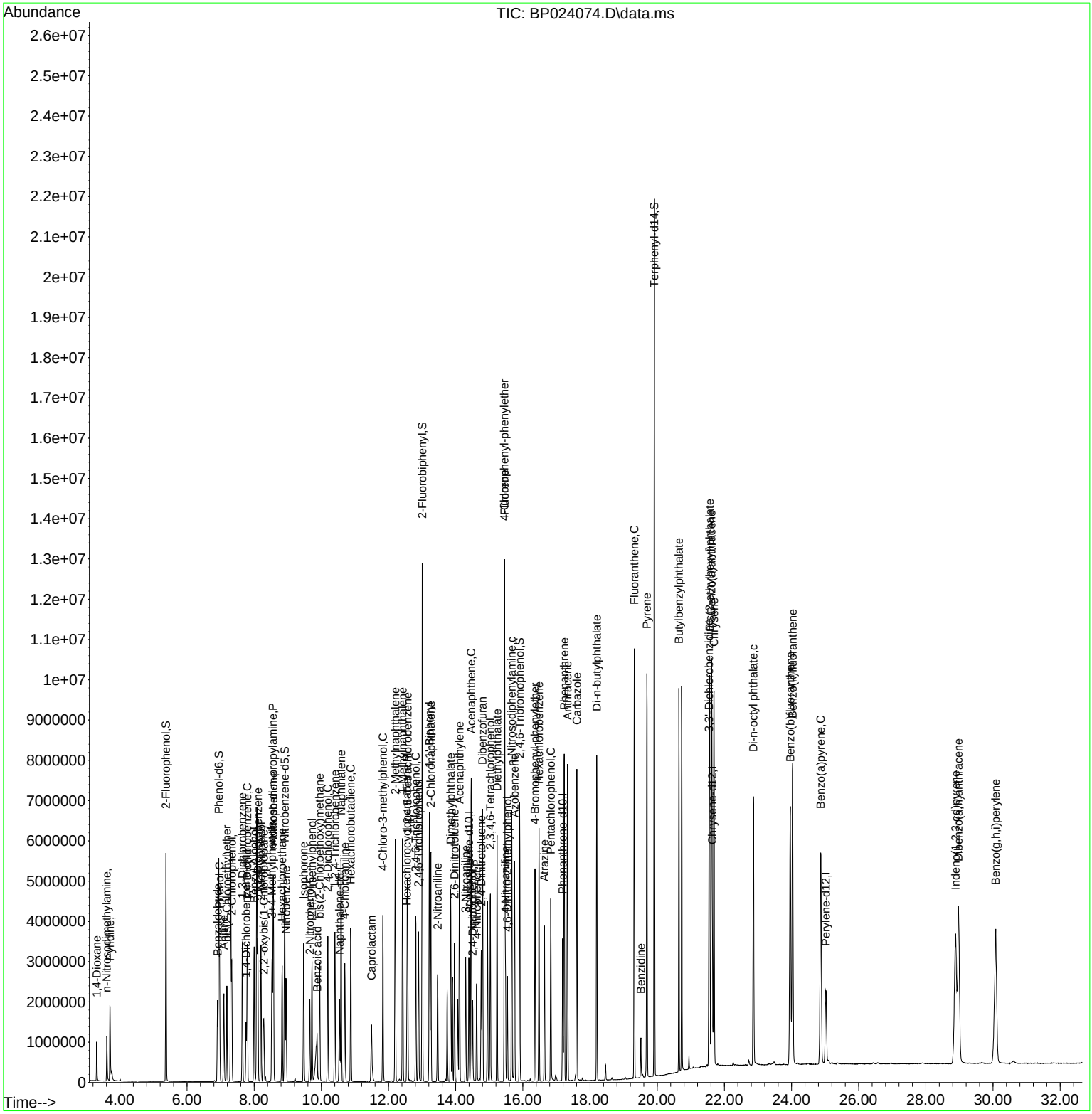
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024074.D
Acq On : 17 Feb 2025 14:52
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

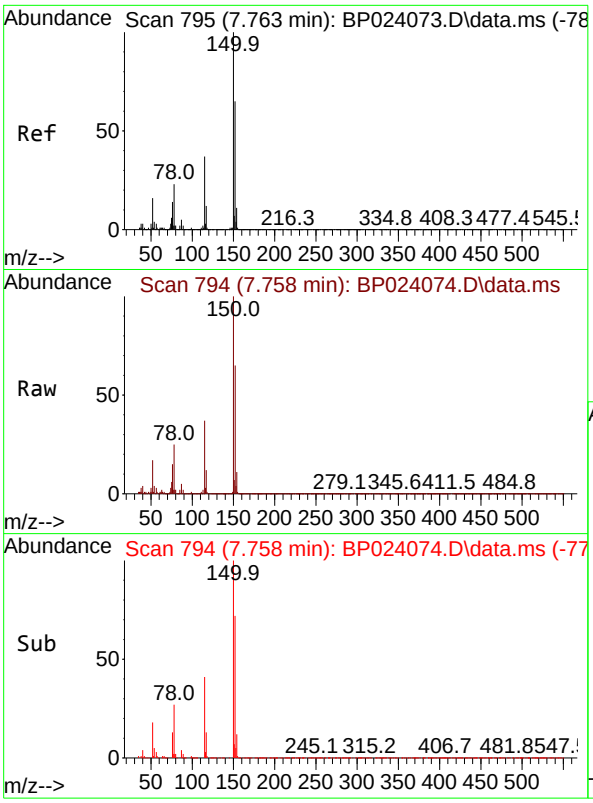
Quant Time: Feb 18 02:03:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

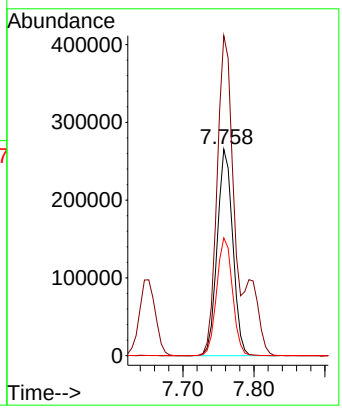




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:152 Resp: 40110

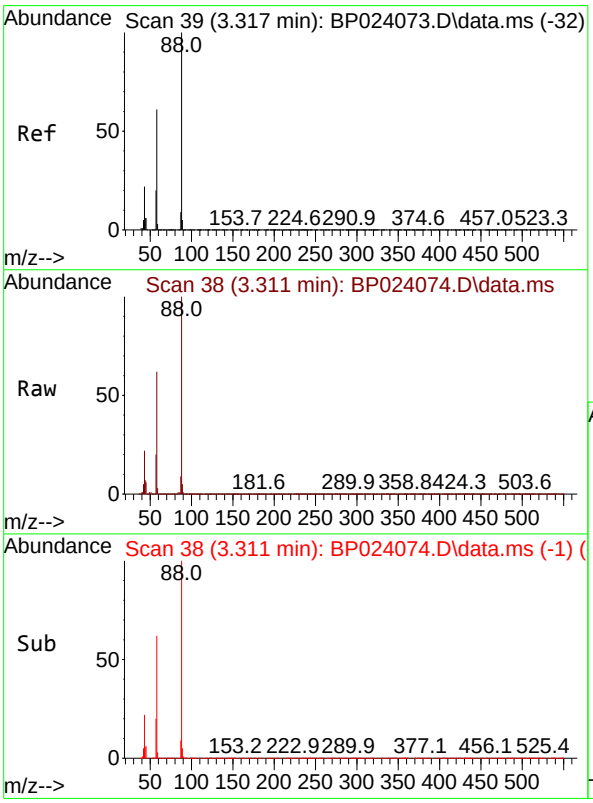
Ion	Ratio	Lower	Upper
152	100		
150	155.0	122.4	183.6
115	57.1	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

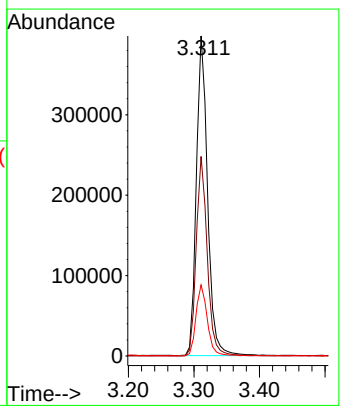
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

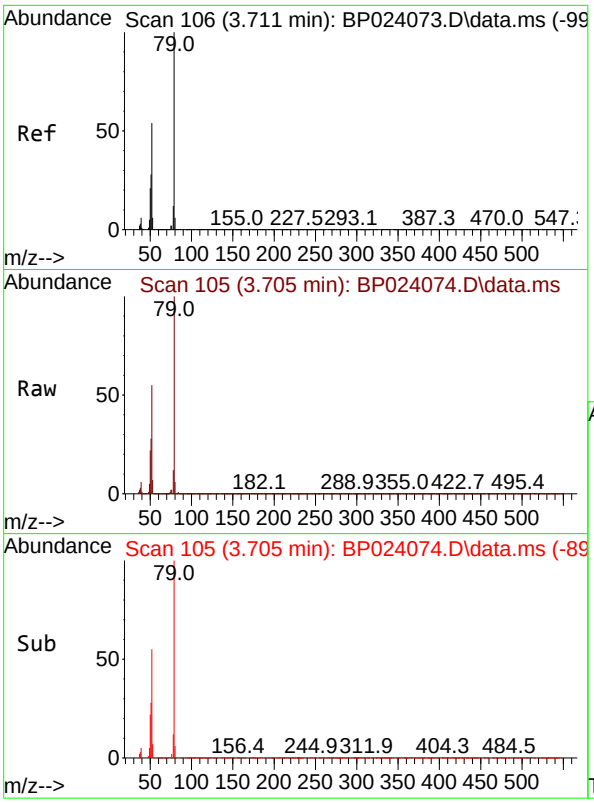


#2
1,4-Dioxane
Concen: 47.060 ng
RT: 3.311 min Scan# 38
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 88 Resp: 474544

Ion	Ratio	Lower	Upper
88	100		
58	61.6	49.1	73.7
43	22.3	18.0	27.0

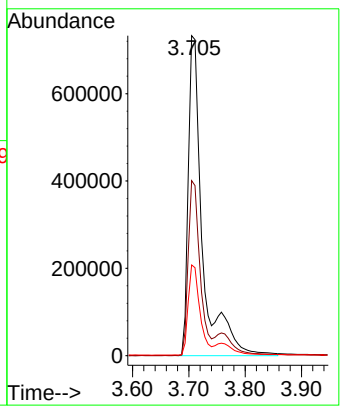




#3
Pyridine
Concen: 49.596 ng m
RT: 3.705 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 79 Resp: 130163

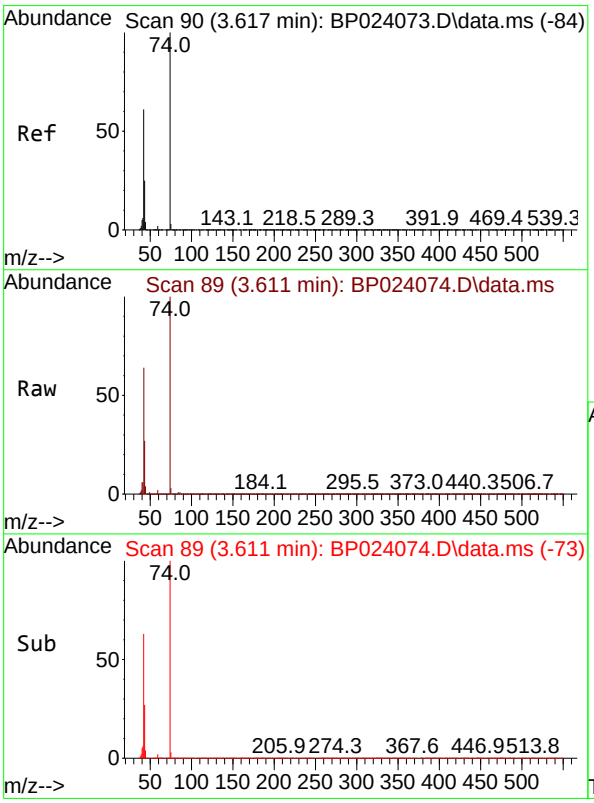
Ion	Ratio	Lower	Upper
79	100		
52	54.7	43.5	65.3
51	28.3	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

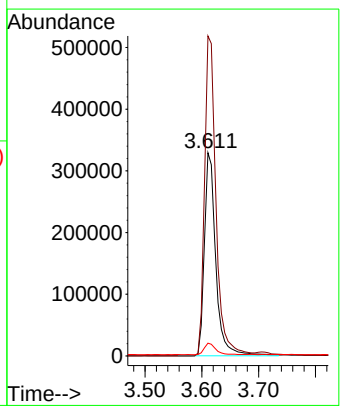
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

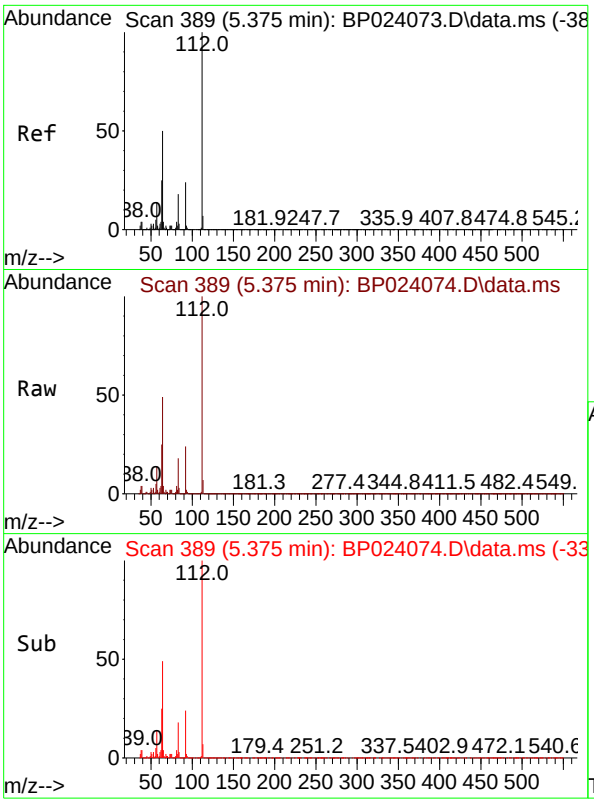


#4
n-Nitrosodimethylamine
Concen: 49.333 ng
RT: 3.611 min Scan# 89
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 42 Resp: 458775

Ion	Ratio	Lower	Upper
42	100		
74	157.4	132.0	198.0
44	6.3	5.3	7.9

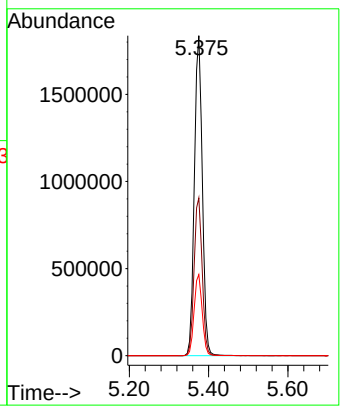




#5
2-Fluorophenol
Concen: 99.363 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:112 Resp: 255420

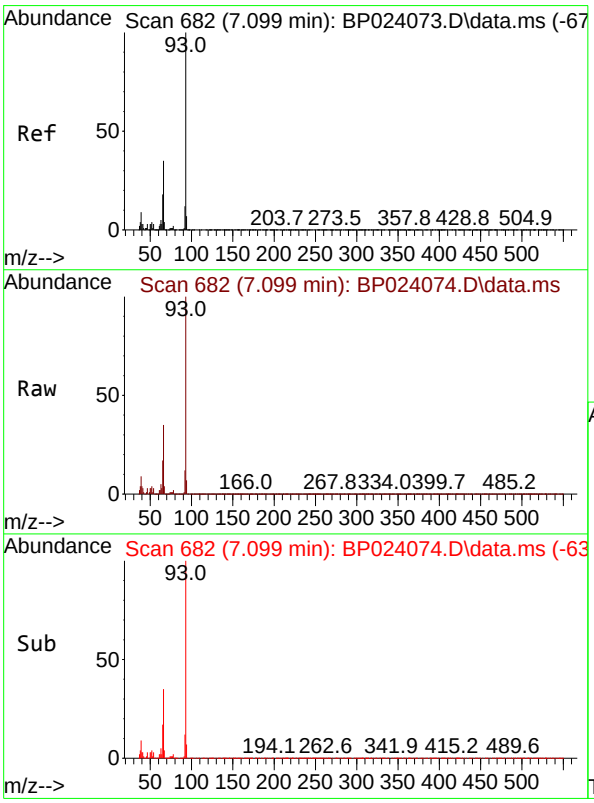
Ion	Ratio	Lower	Upper
112	100		
64	49.3	39.6	59.4
63	25.3	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

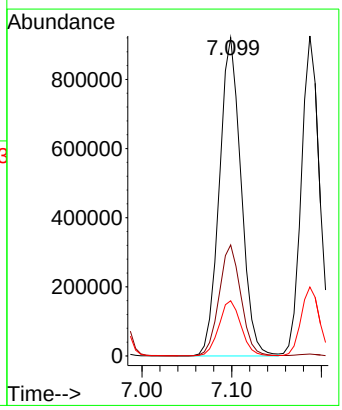
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

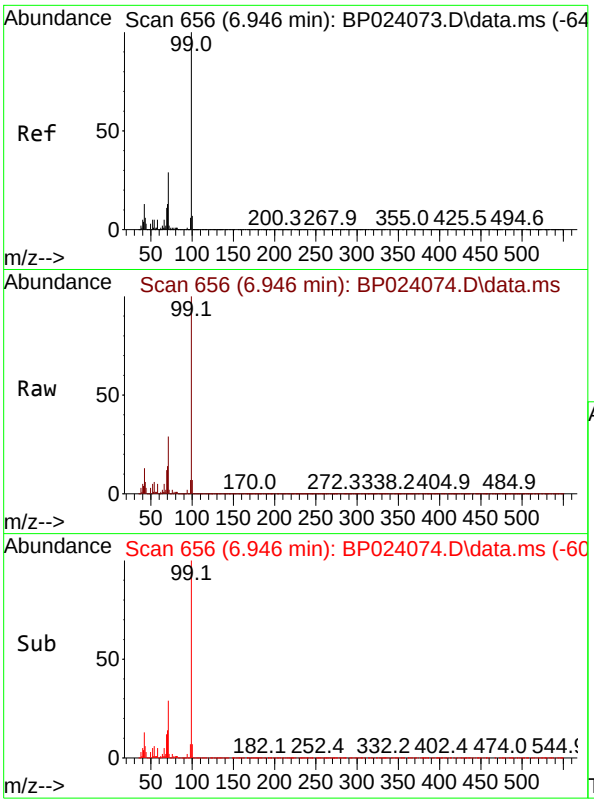


#6
Aniline
Concen: 51.113 ng
RT: 7.099 min Scan# 682
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 93 Resp: 1546490

Ion	Ratio	Lower	Upper
93	100		
66	34.9	28.2	42.4
65	17.4	14.1	21.1

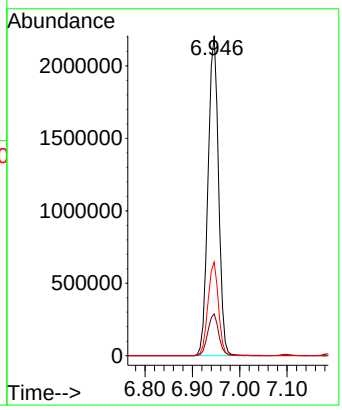




#7
Phenol-d6
Concen: 102.826 ng
RT: 6.946 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 99 Resp: 339722

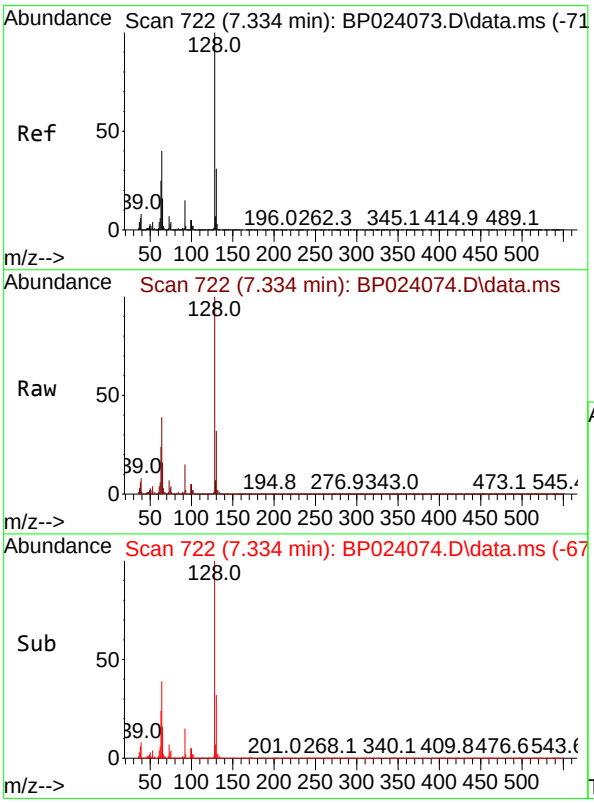
Ion	Ratio	Lower	Upper
99	100		
42	13.0	10.3	15.5
71	29.3	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

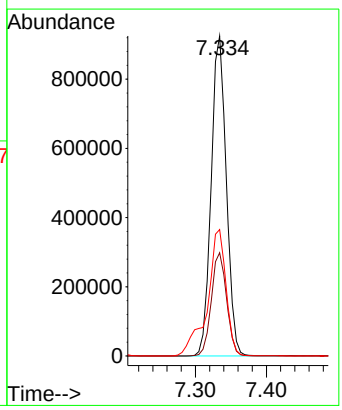
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

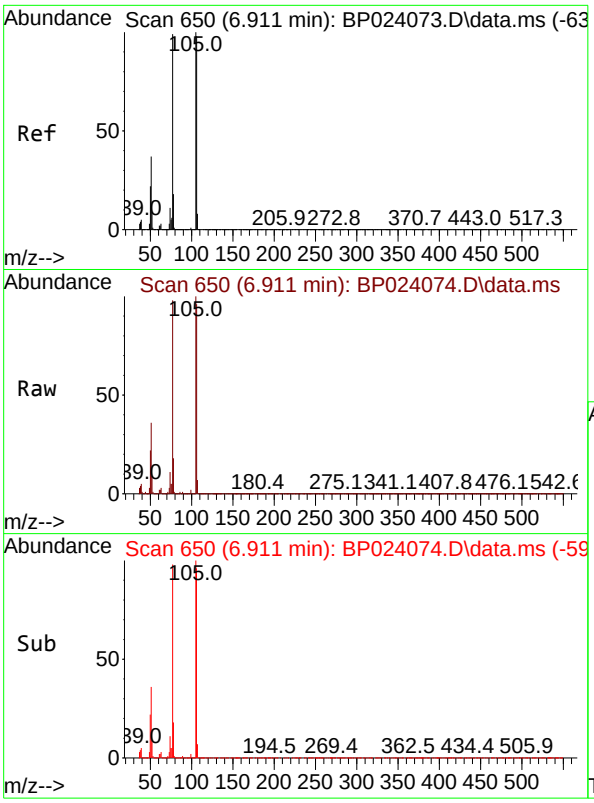


#8
2-Chlorophenol
Concen: 50.215 ng
RT: 7.334 min Scan# 722
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:128 Resp: 1366237

Ion	Ratio	Lower	Upper
128	100		
130	32.2	11.5	51.5
64	39.5	19.8	59.8

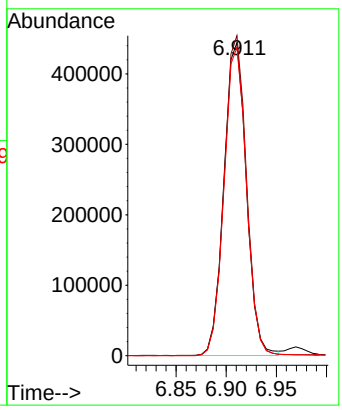




#9
Benzaldehyde
Concen: 45.956 ng
RT: 6.911 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 77 Resp: 69320

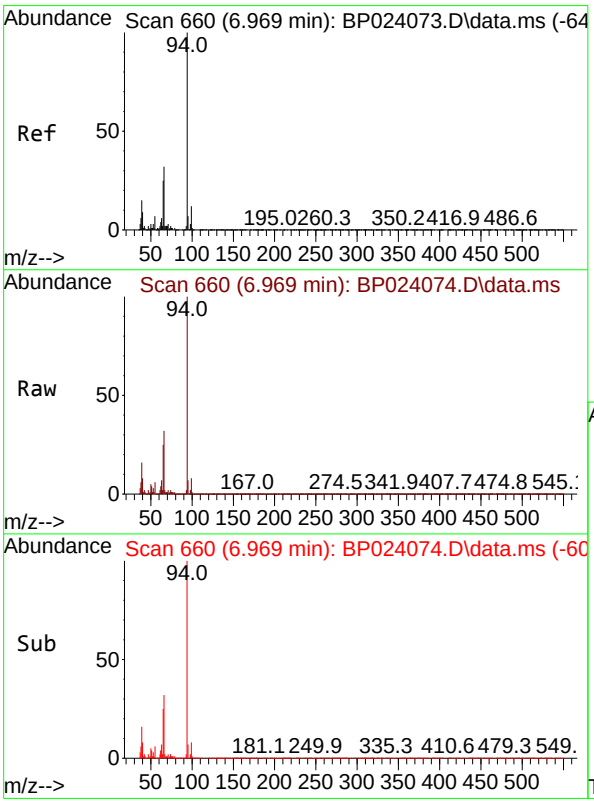
Ion	Ratio	Lower	Upper
77	100		
105	102.2	81.4	121.4
106	98.5	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

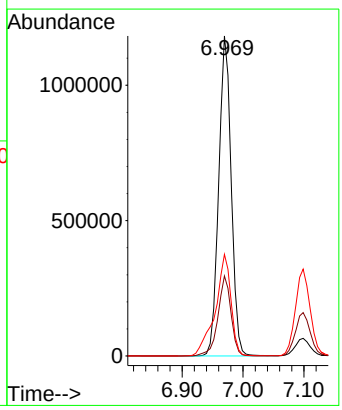
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

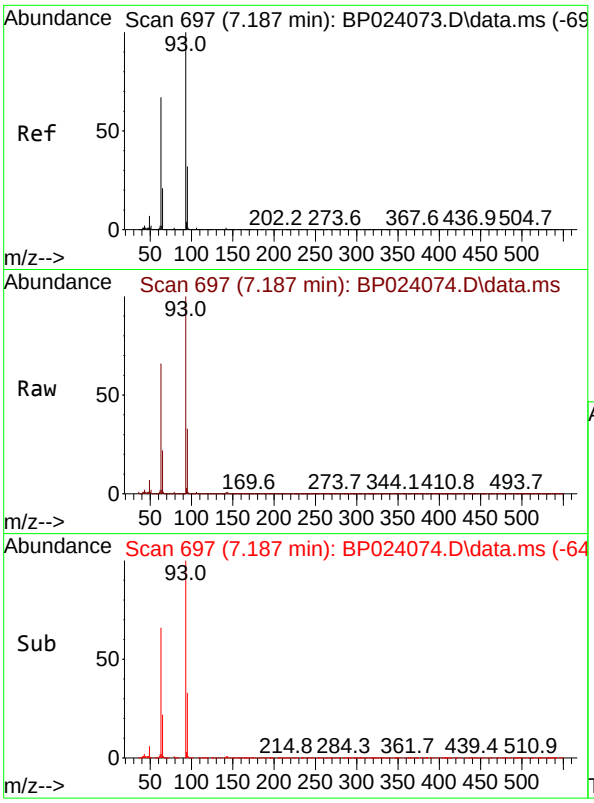


#10
Phenol
Concen: 50.746 ng
RT: 6.969 min Scan# 660
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 94 Resp: 1685931

Ion	Ratio	Lower	Upper
94	100		
65	25.0	5.0	45.0
66	31.8	11.6	51.6

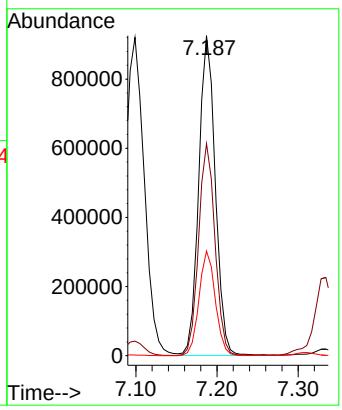




#11
bis(2-Chloroethyl)ether
Concen: 50.179 ng
RT: 7.187 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 93 Resp: 131304

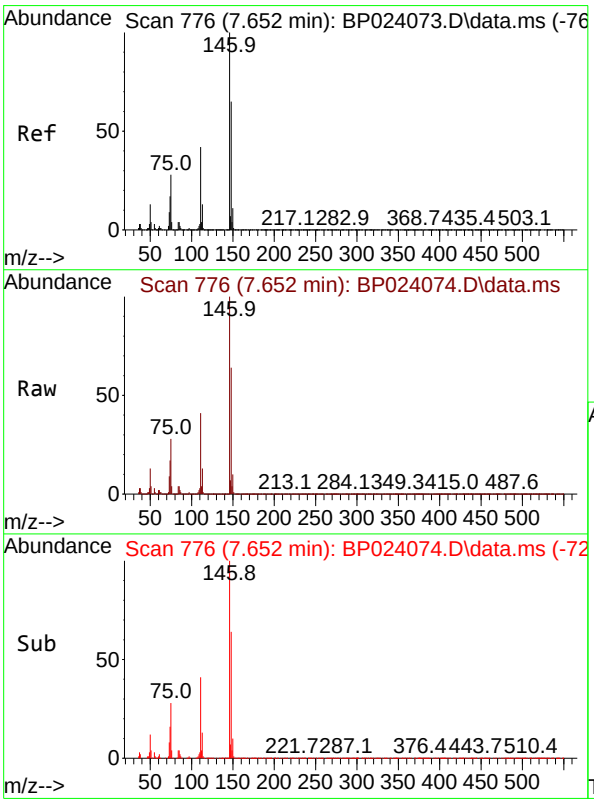
Ion	Ratio	Lower	Upper
93	100		
63	66.3	46.5	86.5
95	32.7	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

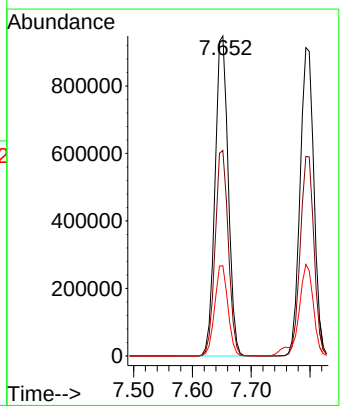
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

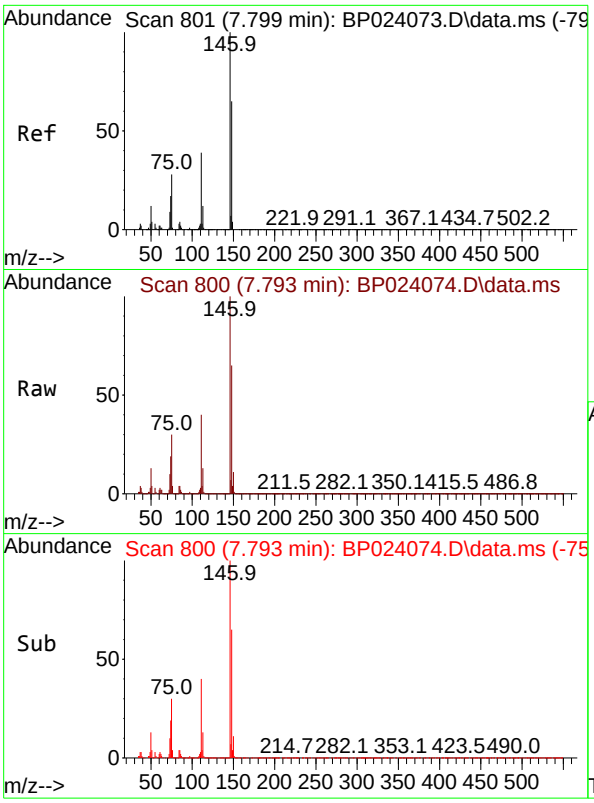


#12
1,3-Dichlorobenzene
Concen: 49.299 ng
RT: 7.652 min Scan# 776
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:146 Resp: 1473556

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.8	77.8
75	28.2	22.6	33.8

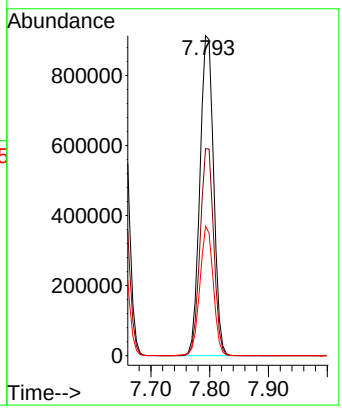




#13
1,4-Dichlorobenzene
Concen: 49.209 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:146 Resp: 148749

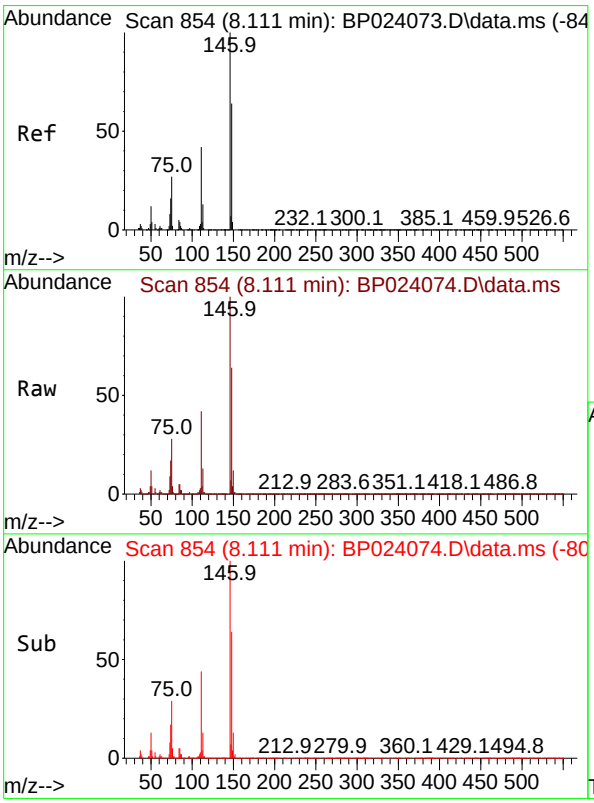
Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.6	77.4
111	40.5	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

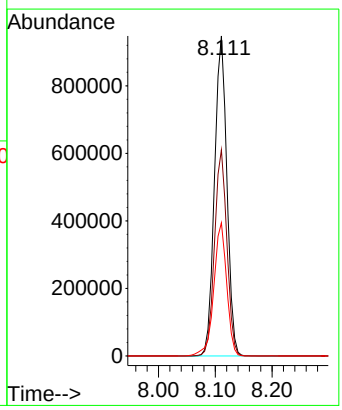
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

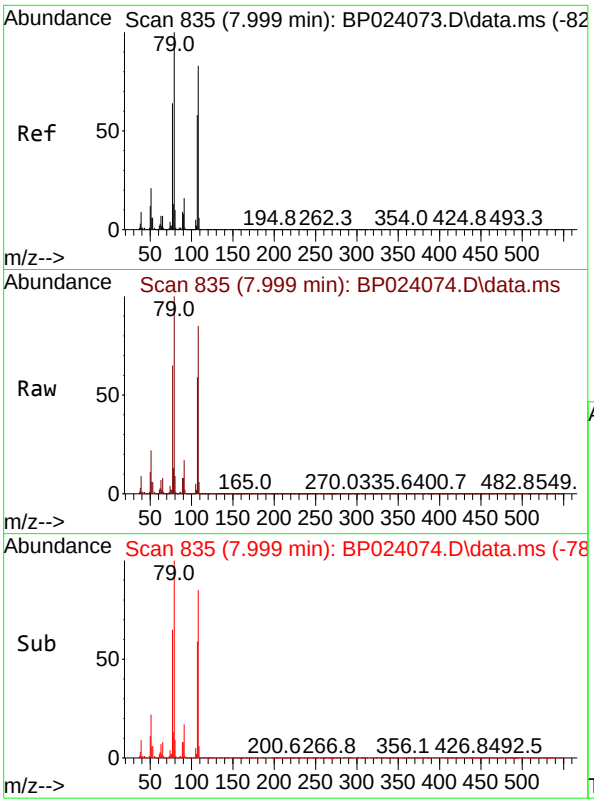


#14
1,2-Dichlorobenzene
Concen: 49.450 ng
RT: 8.111 min Scan# 854
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:146 Resp: 1434540

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	41.6	33.4	50.0





#15
Benzyl Alcohol
Concen: 53.149 ng
RT: 7.999 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

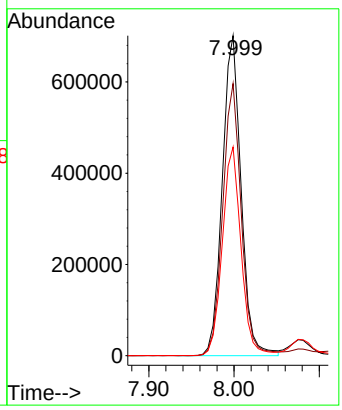
Tgt Ion: 79 Resp: 107485

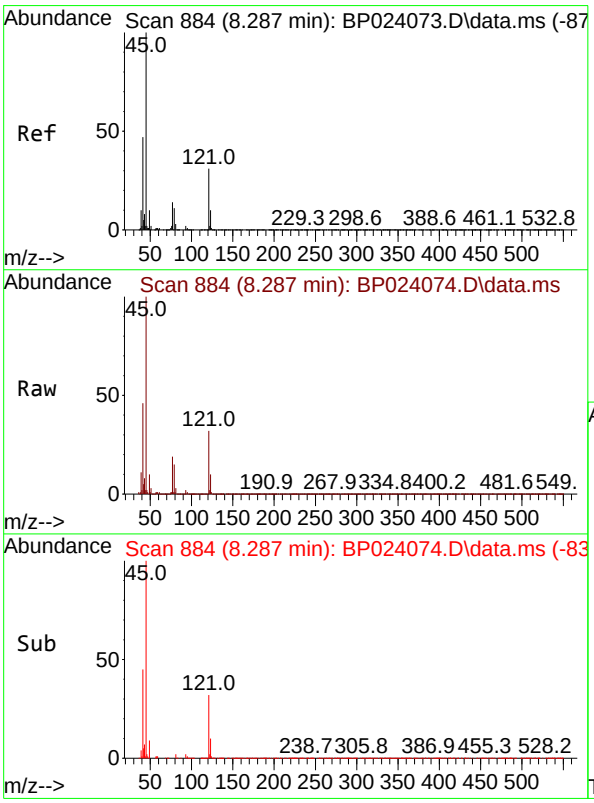
Ion	Ratio	Lower	Upper
79	100		
108	85.0	66.4	99.6
77	65.2	51.3	76.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

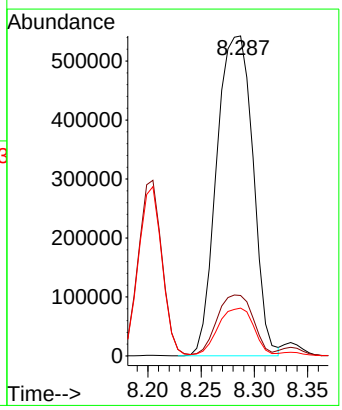


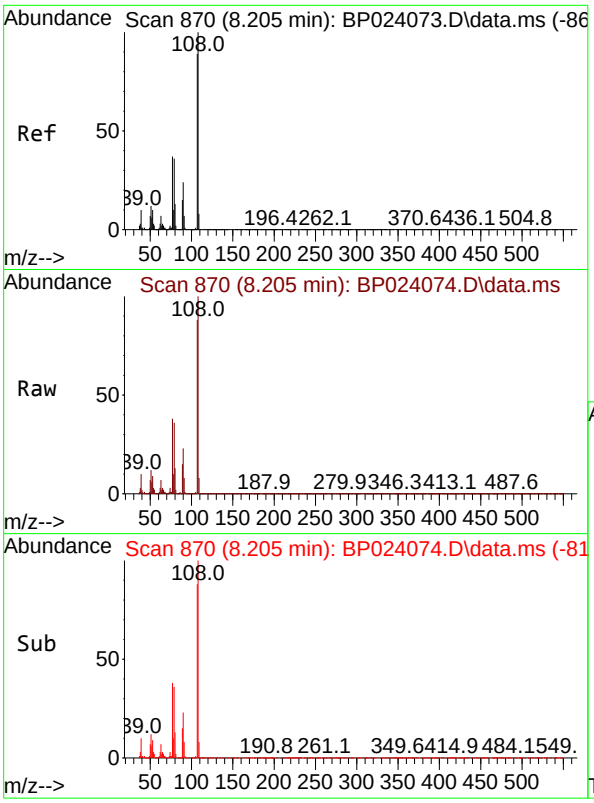


#16
2,2'-oxybis(1-Chloropropane)
Concen: 50.470 ng
RT: 8.287 min Scan# 884
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 45 Resp: 1282012

Ion	Ratio	Lower	Upper
45	100		
77	18.9	0.0	38.8
79	15.0	0.0	35.4

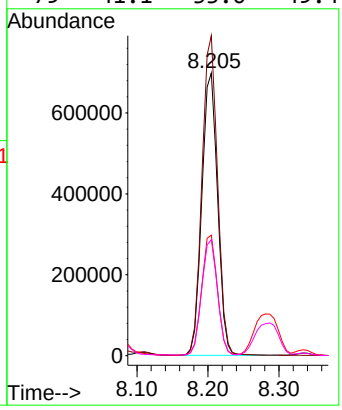




#17
2-Methylphenol
Concen: 53.152 ng
RT: 8.205 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:107 Resp: 107610

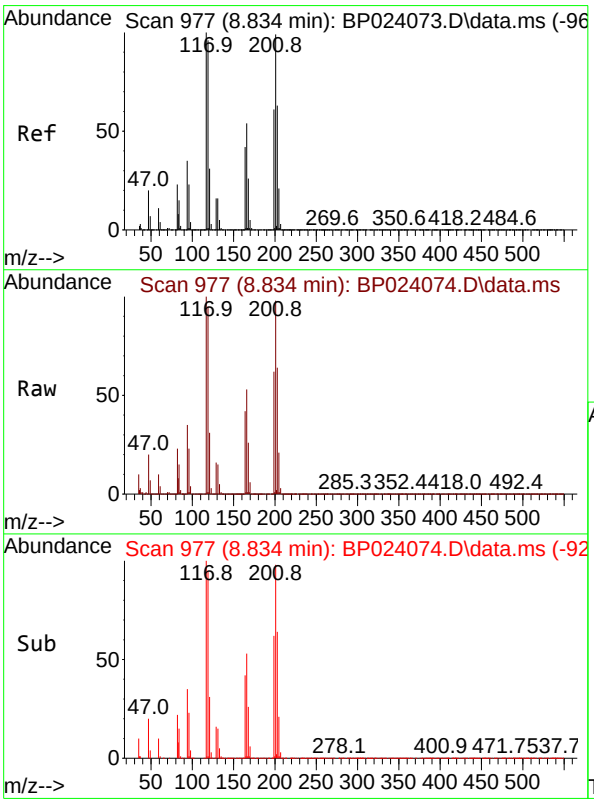
Ion	Ratio	Lower	Upper
107	100		
108	113.2	90.0	135.0
77	42.6	33.8	50.6
79	41.1	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

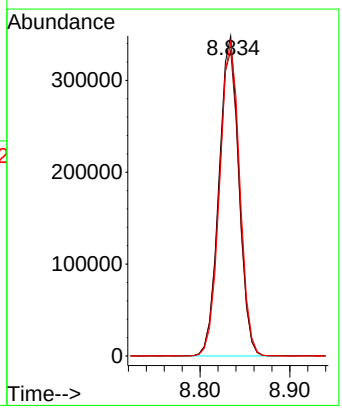
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

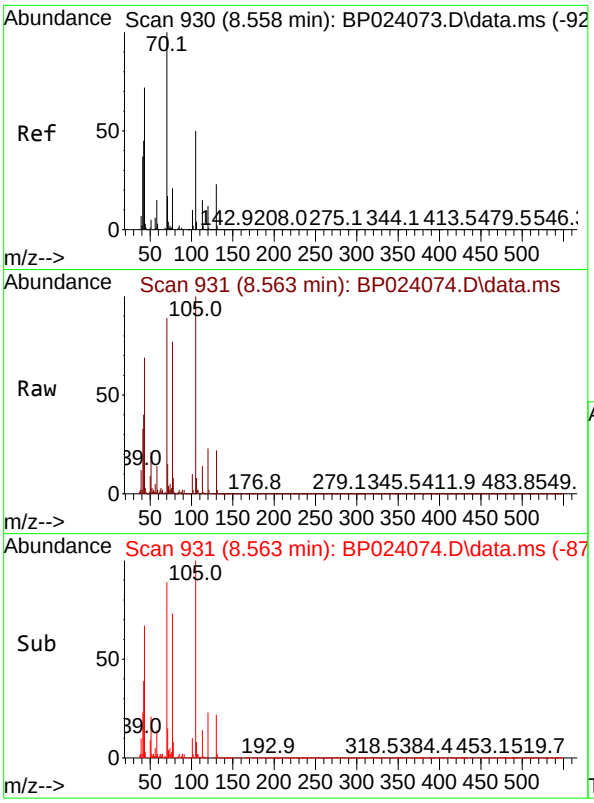


#18
Hexachloroethane
Concen: 49.420 ng
RT: 8.834 min Scan# 977
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:117 Resp: 537993

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.9	115.3
201	98.3	79.4	119.2

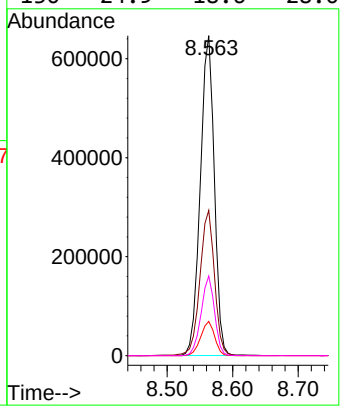




#19
n-Nitroso-di-n-propylamine
Concen: 54.179 ng
RT: 8.563 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

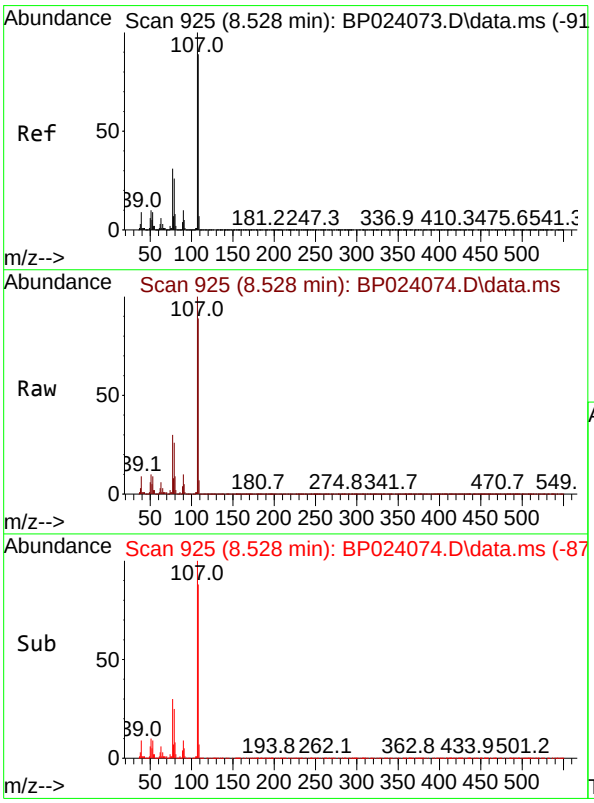
Tgt Ion: 70 Resp: 96242

Ion	Ratio	Lower	Upper
70	100		
42	45.4	36.6	54.8
101	10.7	8.2	12.2
130	24.9	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

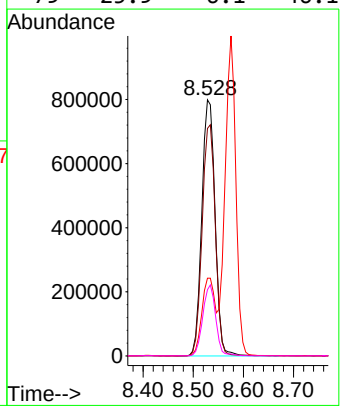
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

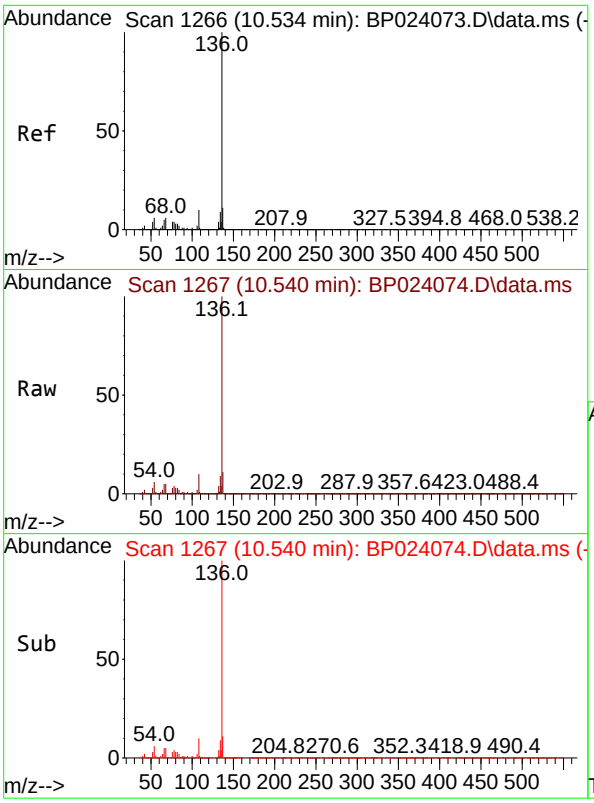


#20
3+4-Methylphenols
Concen: 53.367 ng
RT: 8.528 min Scan# 925
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:107 Resp: 1469837

Ion	Ratio	Lower	Upper
107	100		
108	88.8	68.5	108.5
77	30.3	10.7	50.7
79	25.9	6.1	46.1

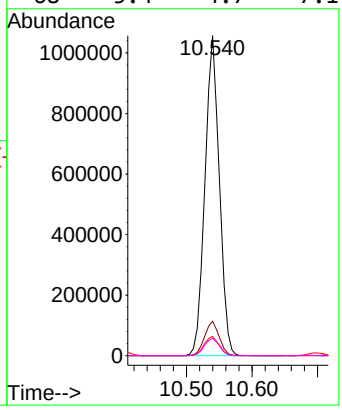




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:136 Resp: 161572

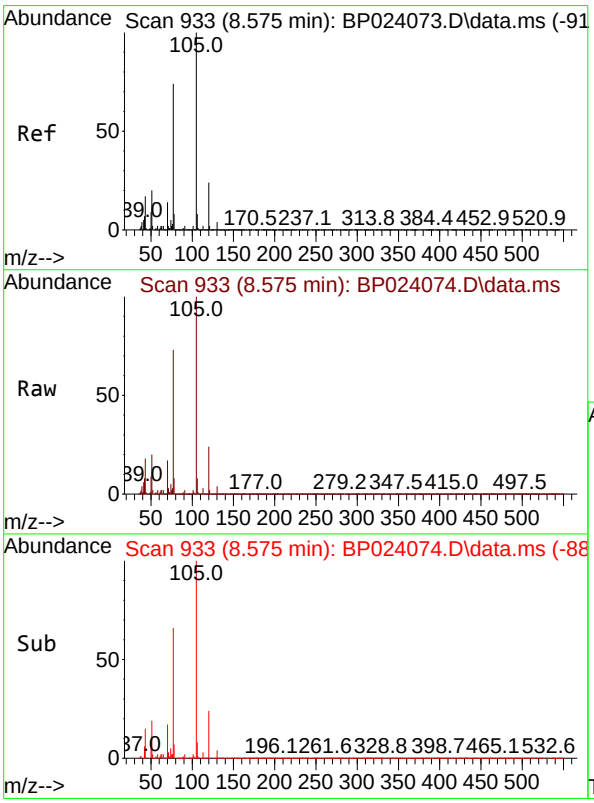
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	6.0	4.9	7.3
68	5.4	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

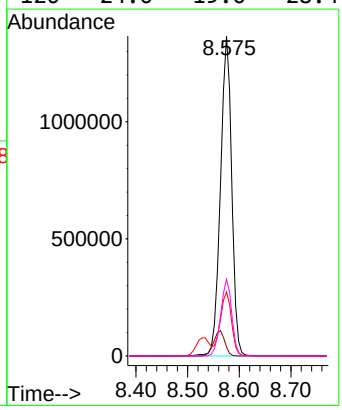
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

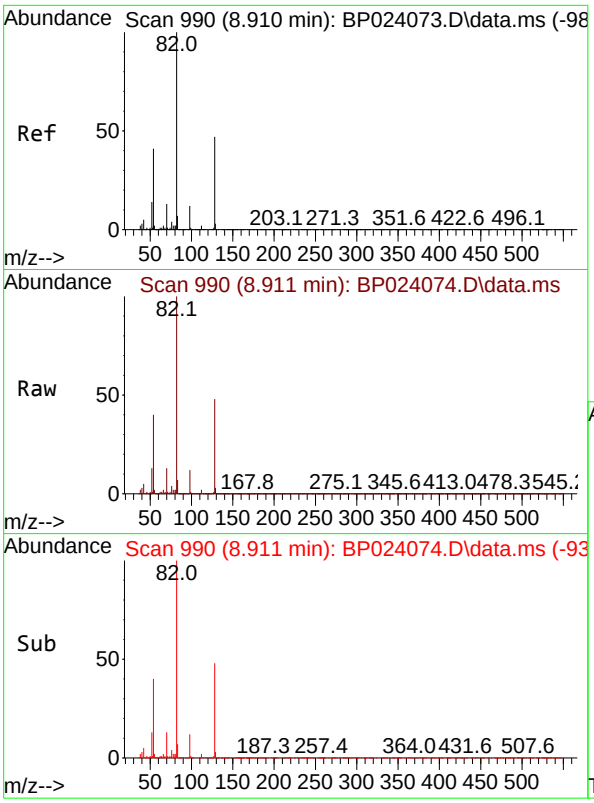


#22
Acetophenone
Concen: 49.635 ng
RT: 8.575 min Scan# 933
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:105 Resp: 2060849

Ion	Ratio	Lower	Upper
105	100		
71	2.8	1.9	2.9
51	20.0	16.3	24.5
120	24.0	19.0	28.4

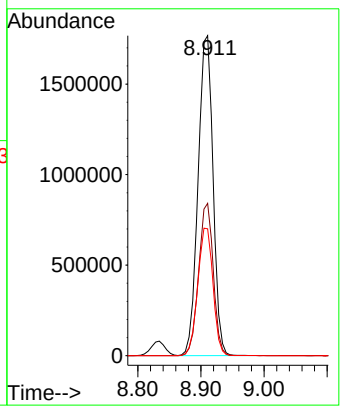




#23
Nitrobenzene-d5
Concen: 100.434 ng
RT: 8.911 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 82 Resp: 290871

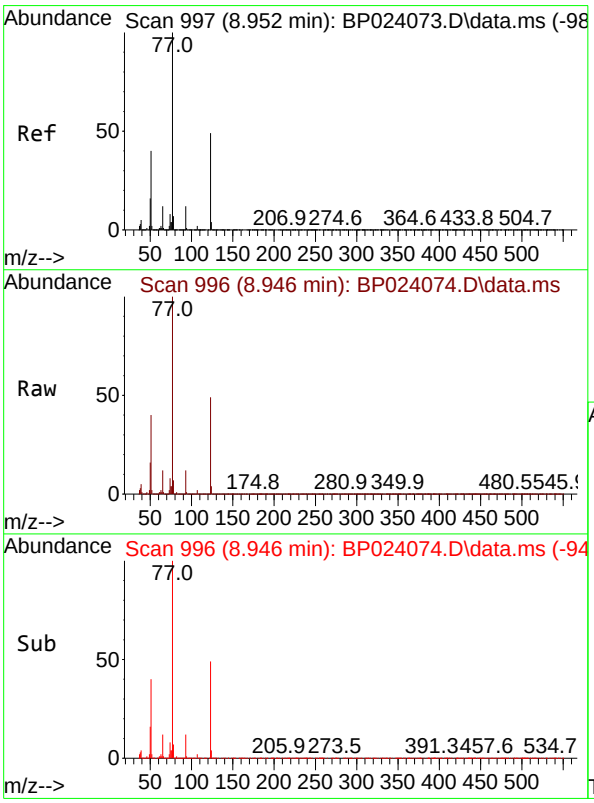
Ion	Ratio	Lower	Upper
82	100		
128	47.6	37.4	56.2
54	39.6	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

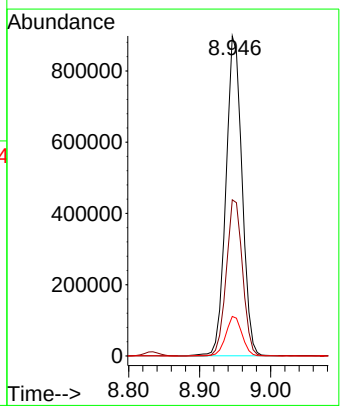
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

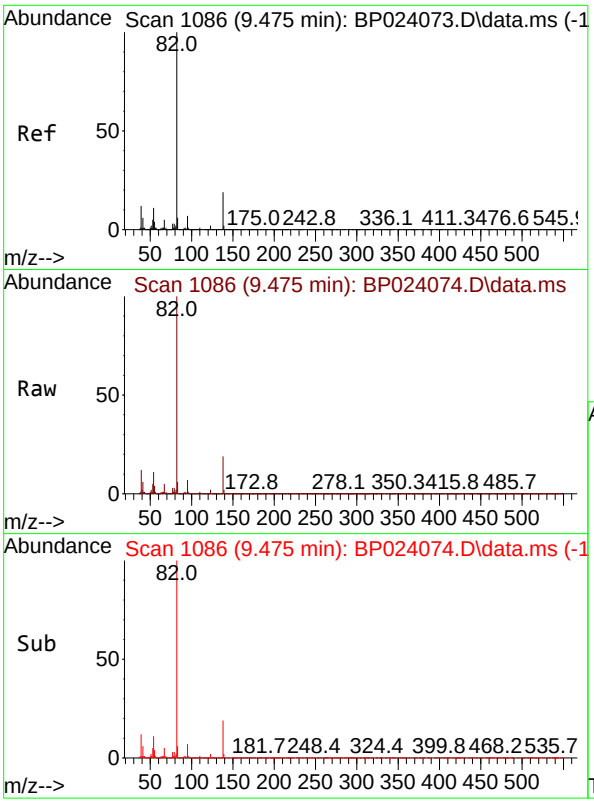


#24
Nitrobenzene
Concen: 49.558 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 77 Resp: 1412533

Ion	Ratio	Lower	Upper
77	100		
123	48.8	39.4	59.2
65	12.3	9.9	14.9





#25
Isophorone
Concen: 52.803 ng
RT: 9.475 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

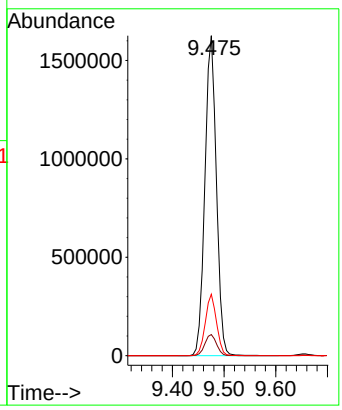
Tgt Ion: 82 Resp: 250079

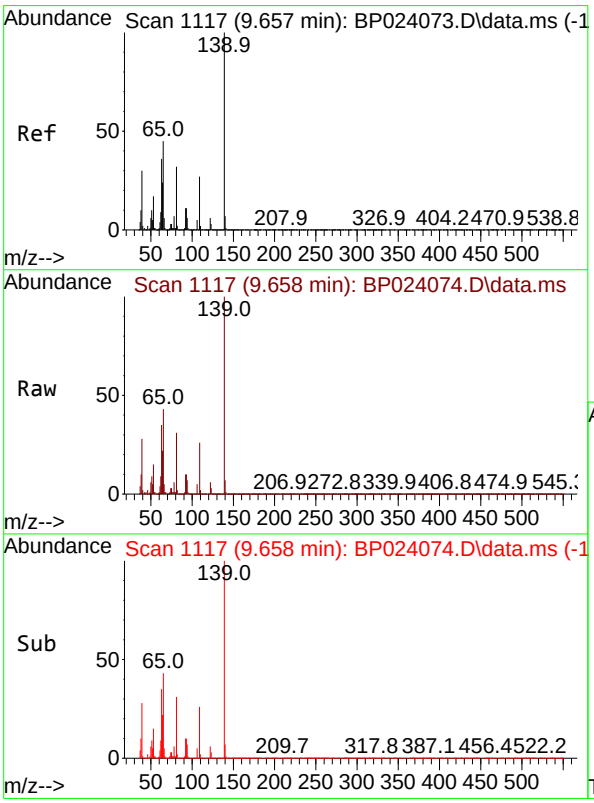
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.4	8.0
138	19.2	15.3	22.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

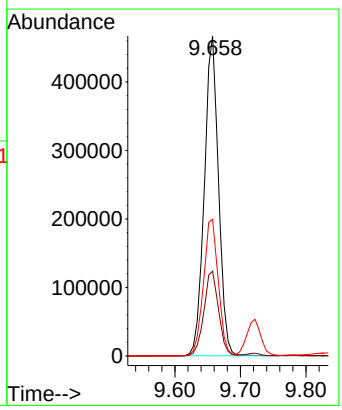


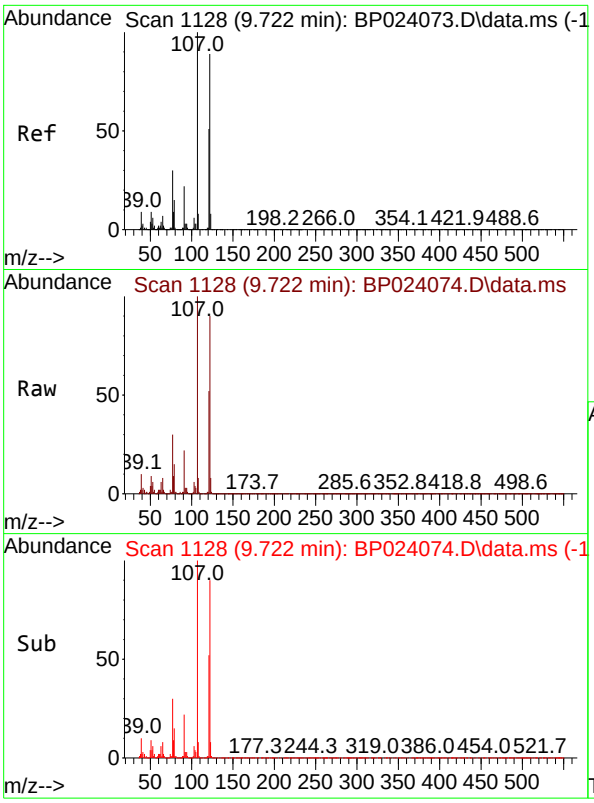


#26
2-Nitrophenol
Concen: 53.607 ng
RT: 9.658 min Scan# 1117
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:139 Resp: 703942

Ion	Ratio	Lower	Upper
139	100		
109	26.5	21.7	32.5
65	42.7	36.1	54.1





#27
2,4-Dimethylphenol
Concen: 51.828 ng
RT: 9.722 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

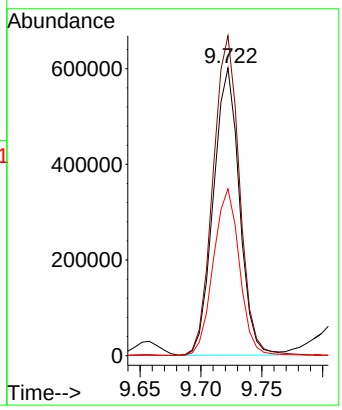
Tgt Ion:122 Resp: 89337

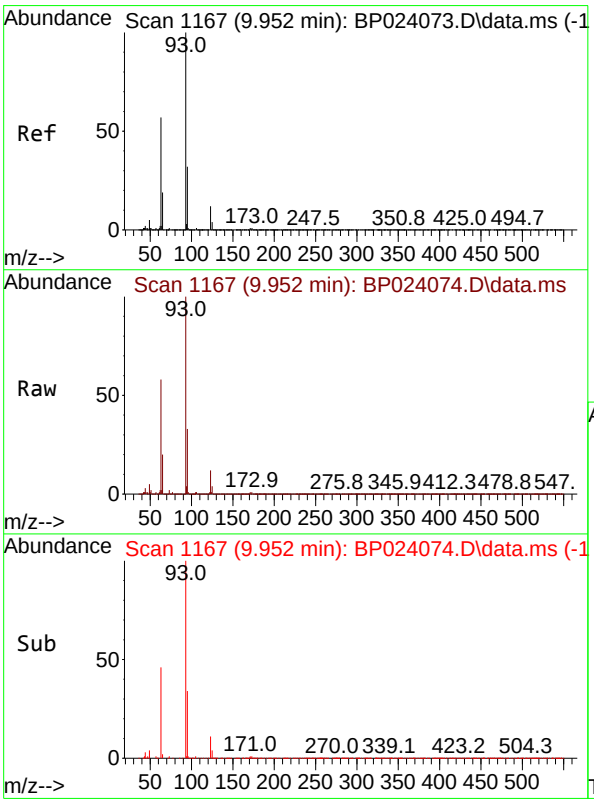
Ion	Ratio	Lower	Upper
122	100		
107	111.2	89.8	134.8
121	58.0	45.9	68.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

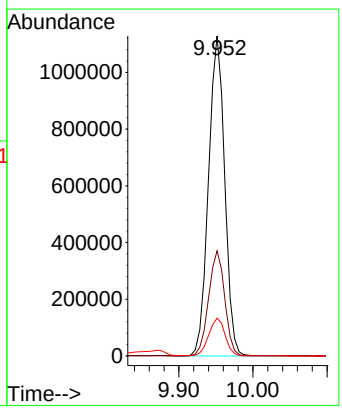


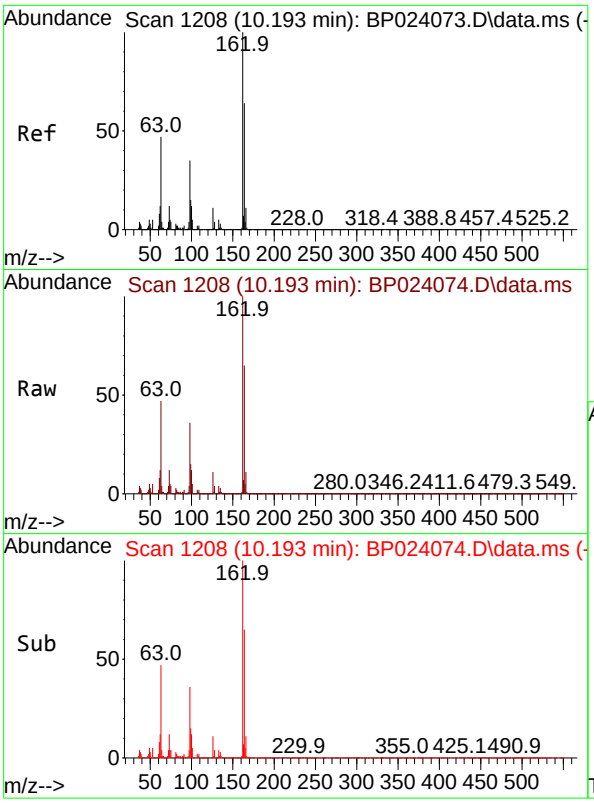


#28
bis(2-Chloroethoxy)methane
Concen: 49.912 ng
RT: 9.952 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 93 Resp: 1712421

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	11.8	9.7	14.5





#29
2,4-Dichlorophenol
Concen: 52.894 ng
RT: 10.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

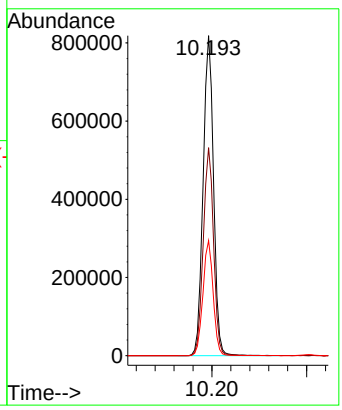
Tgt Ion:162 Resp: 124426

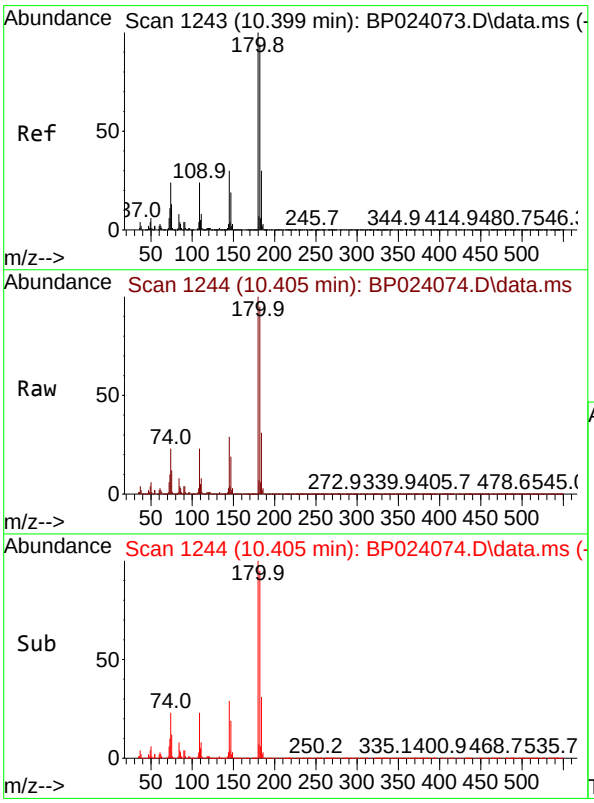
Ion	Ratio	Lower	Upper
162	100		
164	65.0	44.5	84.5
98	35.9	15.3	55.3

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

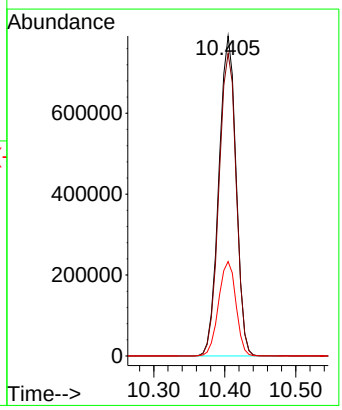


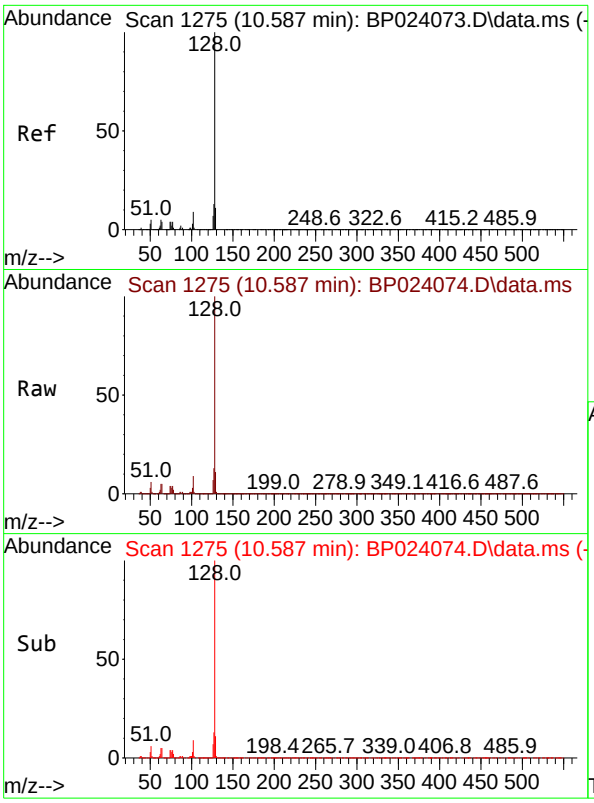


#30
1,2,4-Trichlorobenzene
Concen: 49.145 ng
RT: 10.405 min Scan# 1244
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:180 Resp: 1324542

Ion	Ratio	Lower	Upper
180	100		
182	94.6	75.4	113.2
145	29.5	24.0	36.0

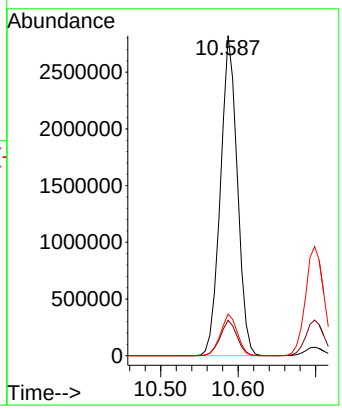




#31
Naphthalene
Concen: 49.121 ng
RT: 10.587 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:128 Resp: 426745

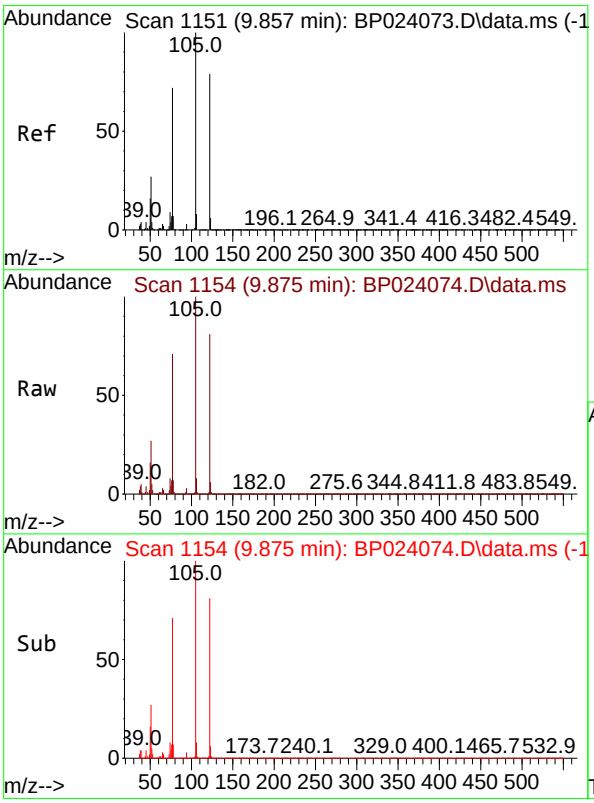
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	13.0
127	13.0	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

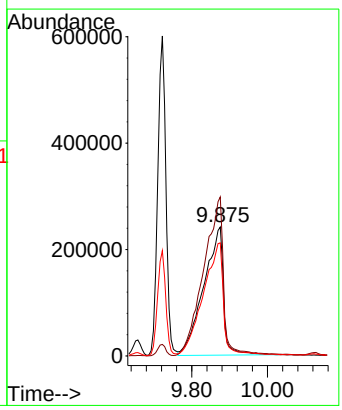
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

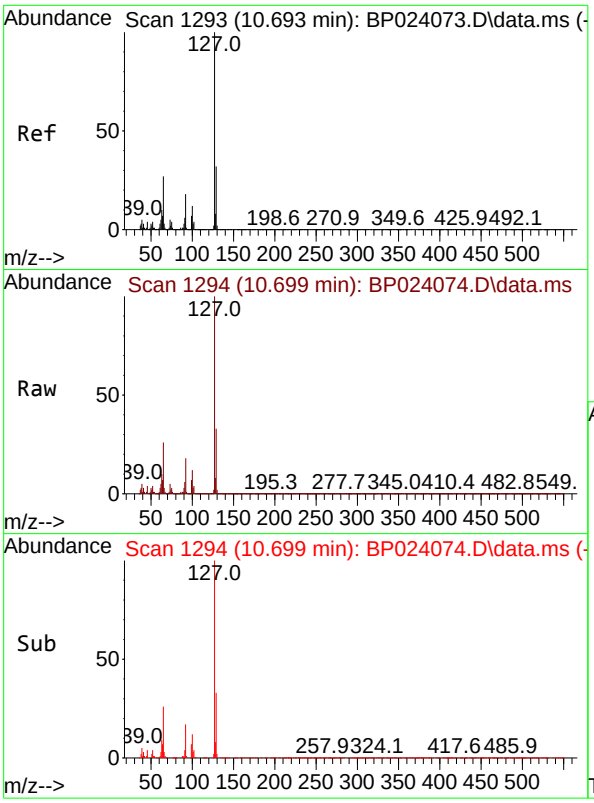


#32
Benzoic acid
Concen: 48.284 ng
RT: 9.875 min Scan# 1154
Delta R.T. 0.018 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:122 Resp: 874212

Ion	Ratio	Lower	Upper
122	100		
105	123.3	103.7	143.7
77	87.7	69.9	109.9

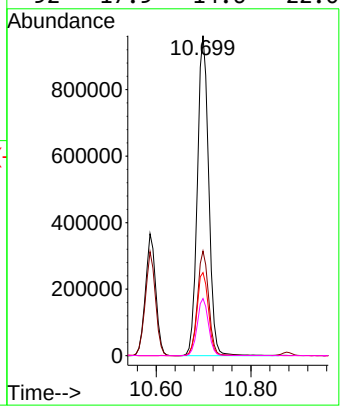




#33
4-Chloroaniline
Concen: 52.272 ng
RT: 10.699 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:127 Resp: 159981

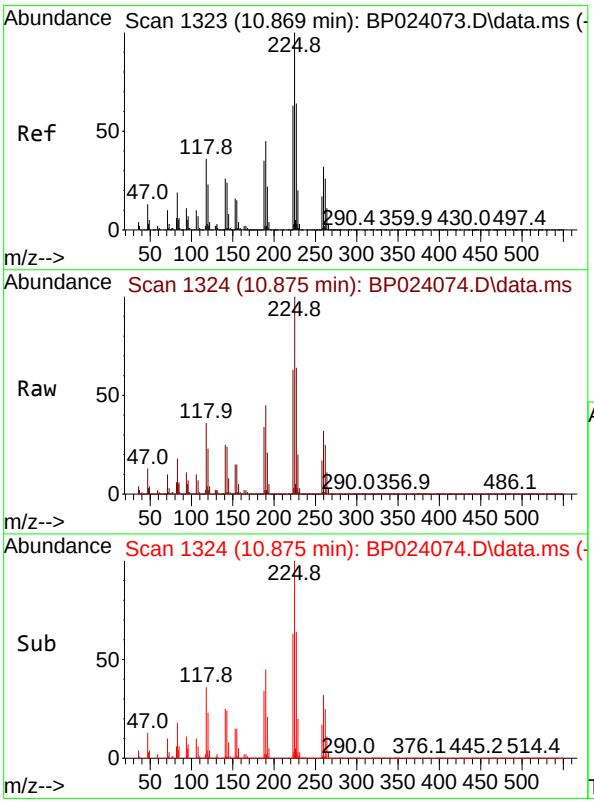
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.4	38.0
65	26.0	21.3	31.9
92	17.9	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

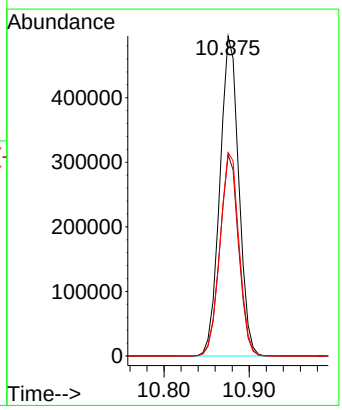
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

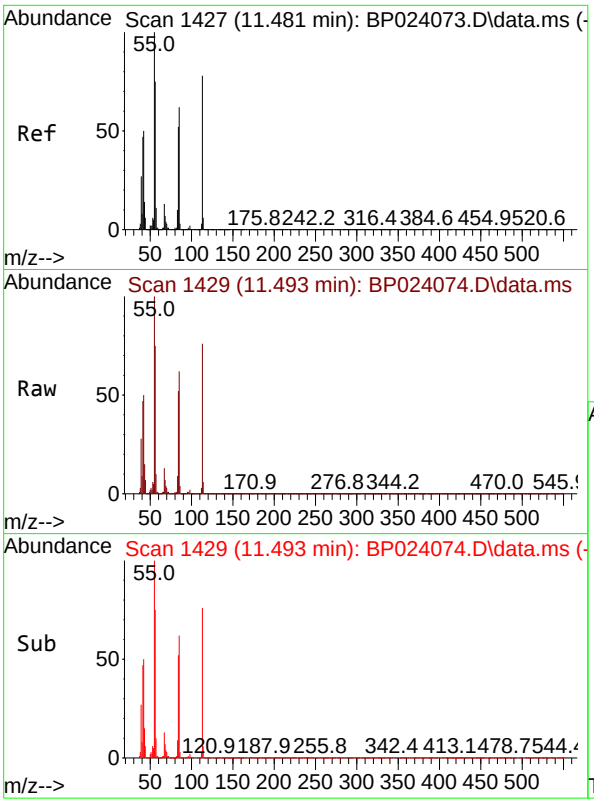


#34
Hexachlorobutadiene
Concen: 48.767 ng
RT: 10.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:225 Resp: 761289

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.5	75.7
227	63.6	51.3	76.9

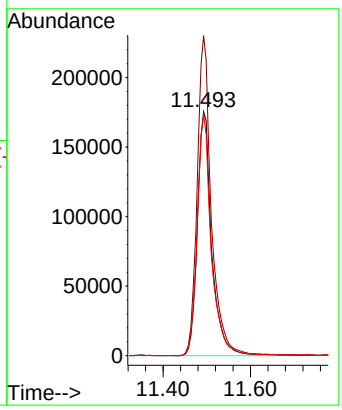




#35
Caprolactam
Concen: 50.301 ng
RT: 11.493 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:113 Resp: 40094

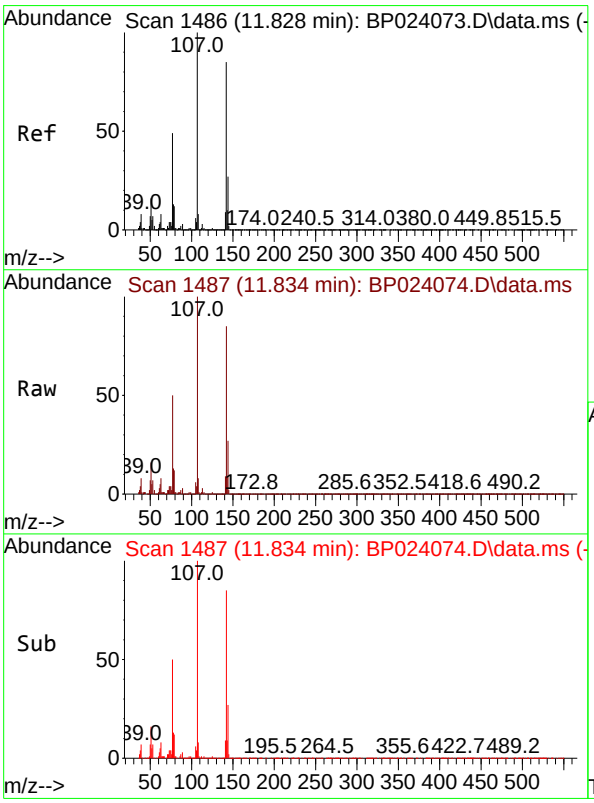
Ion	Ratio	Lower	Upper
113	100		
55	131.2	108.8	148.8
56	98.9	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

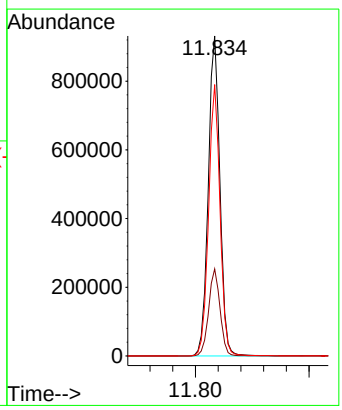
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

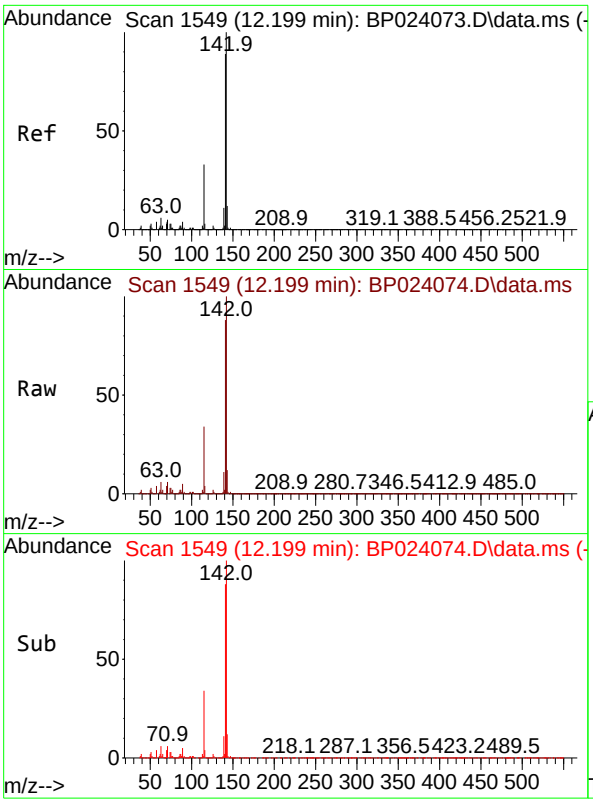


#36
4-Chloro-3-methylphenol
Concen: 54.434 ng
RT: 11.834 min Scan# 1487
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:107 Resp: 1316347

Ion	Ratio	Lower	Upper
107	100		
144	27.2	21.8	32.8
142	84.8	67.8	101.8

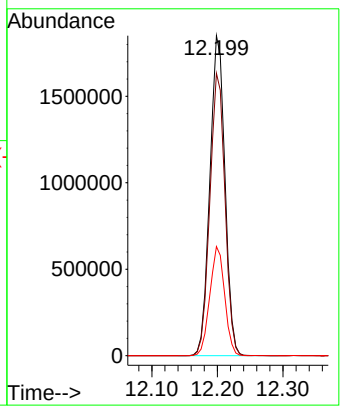




#37
2-Methylnaphthalene
Concen: 51.138 ng
RT: 12.199 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:142 Resp: 295285

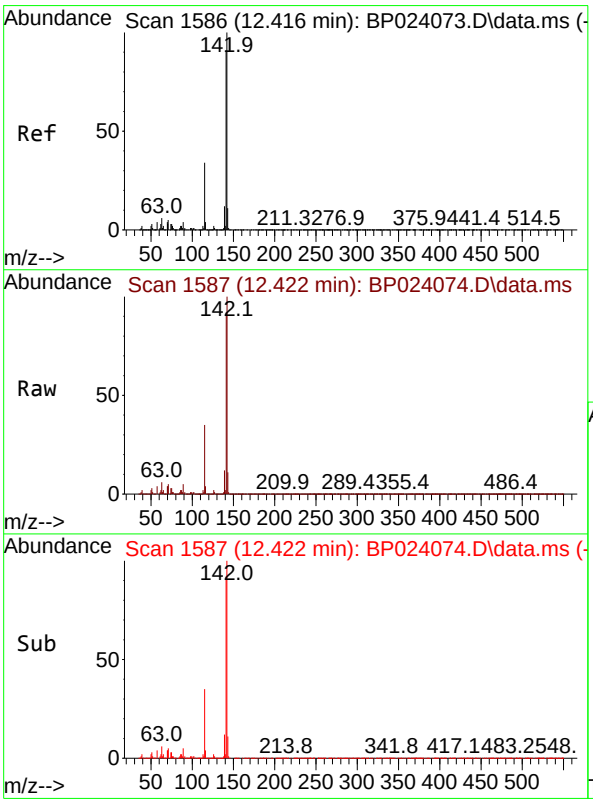
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8
115	34.1	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

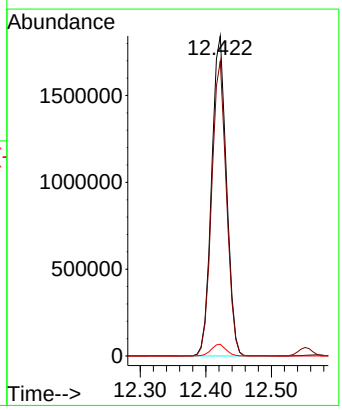
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

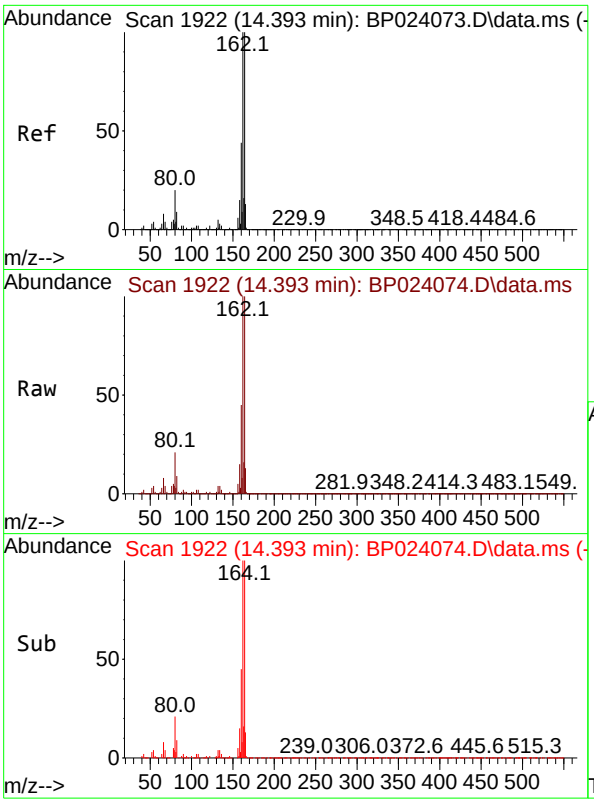


#38
1-Methylnaphthalene
Concen: 51.518 ng
RT: 12.422 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:142 Resp: 2893959

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.0	109.6
116	3.6	2.8	4.2

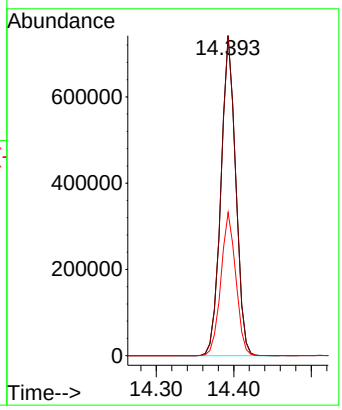




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.393 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:164 Resp: 98193

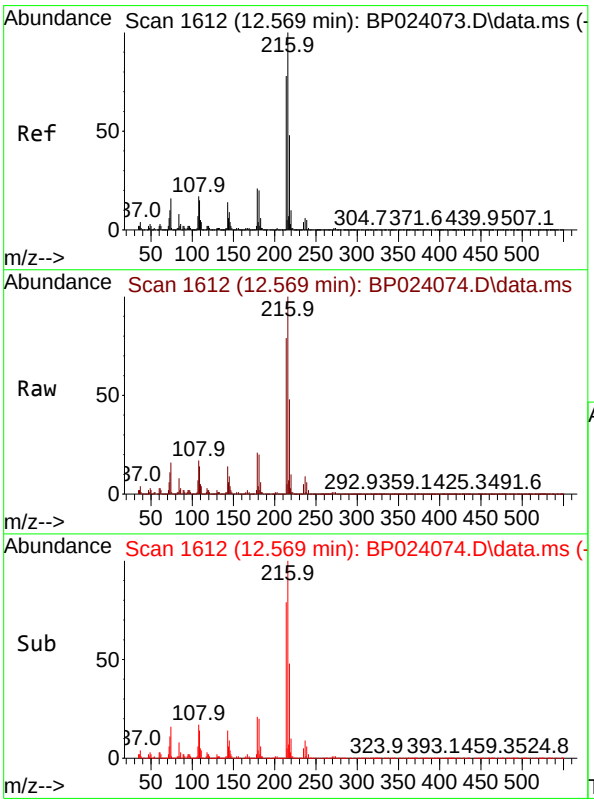
Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.1	120.1
160	44.7	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

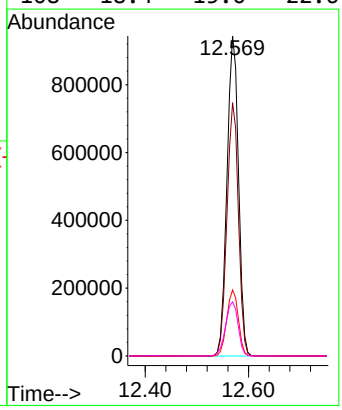
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

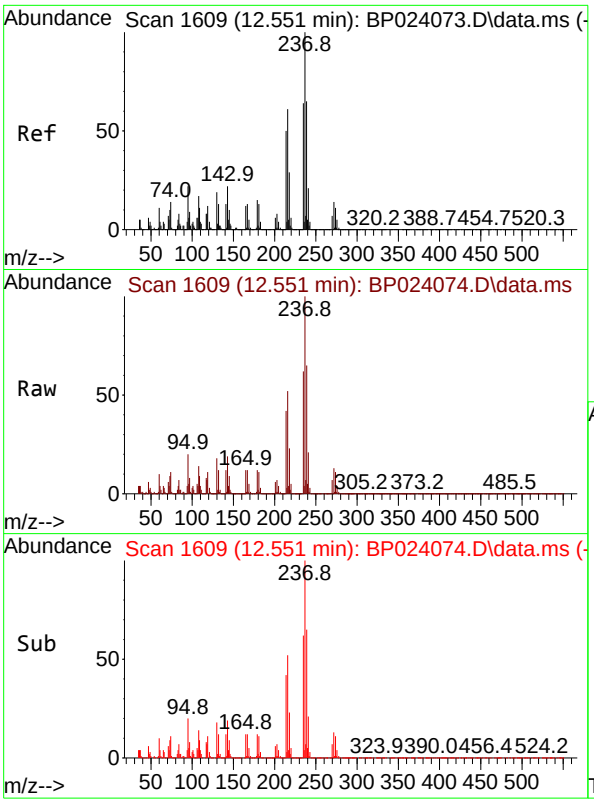


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.320 ng
RT: 12.569 min Scan# 1612
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:216 Resp: 1457845

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.7	94.1
179	20.7	16.6	25.0
108	18.4	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 50.321 ng
RT: 12.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

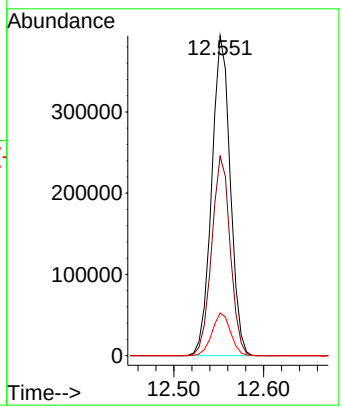
Tgt Ion:237 Resp: 56494

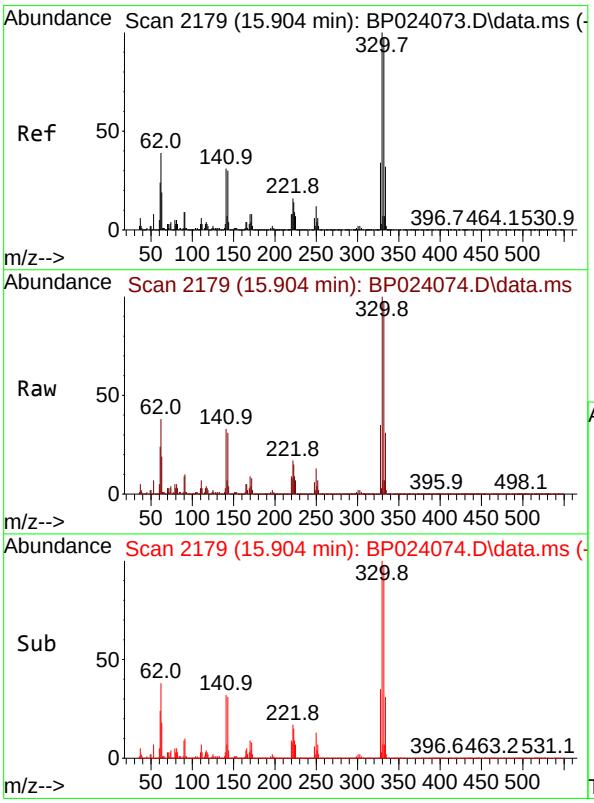
Ion	Ratio	Lower	Upper
237	100		
235	62.3	43.5	83.5
272	13.4	0.0	33.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

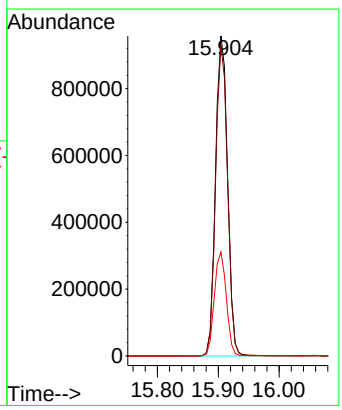


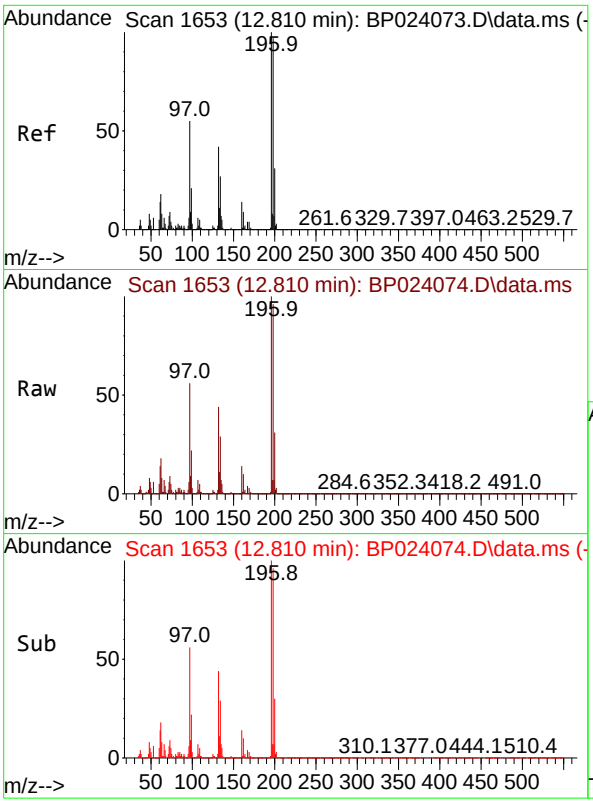


#42
2,4,6-Tribromophenol
Concen: 108.843 ng
RT: 15.904 min Scan# 2179
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:330 Resp: 1309117

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.0	115.4
141	32.5	28.3	42.5

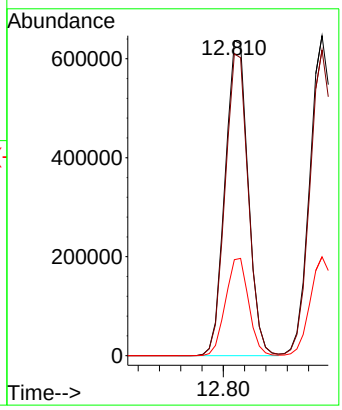




#43
2,4,6-Trichlorophenol
Concen: 52.094 ng
RT: 12.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:196 Resp: 95849

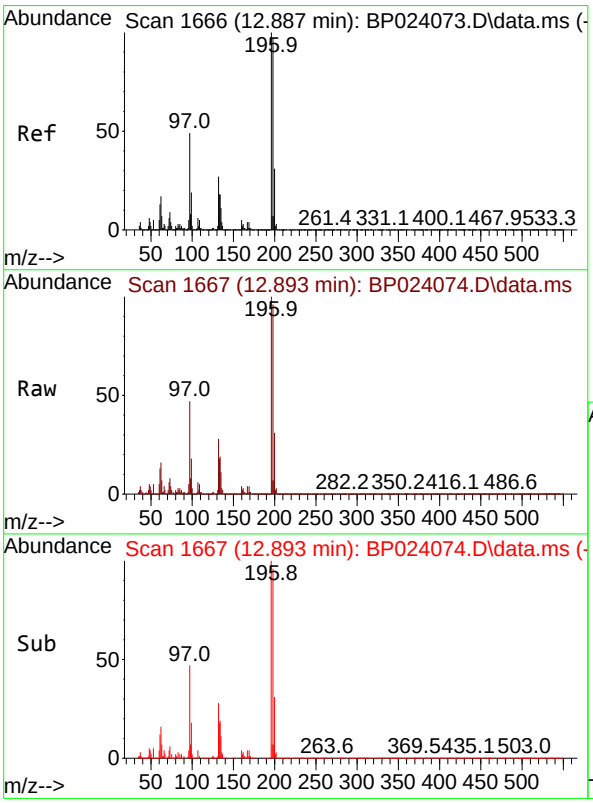
Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.8	116.6
200	30.5	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

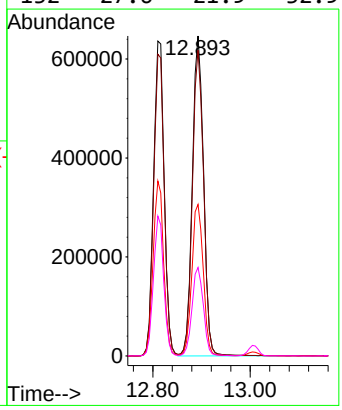
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

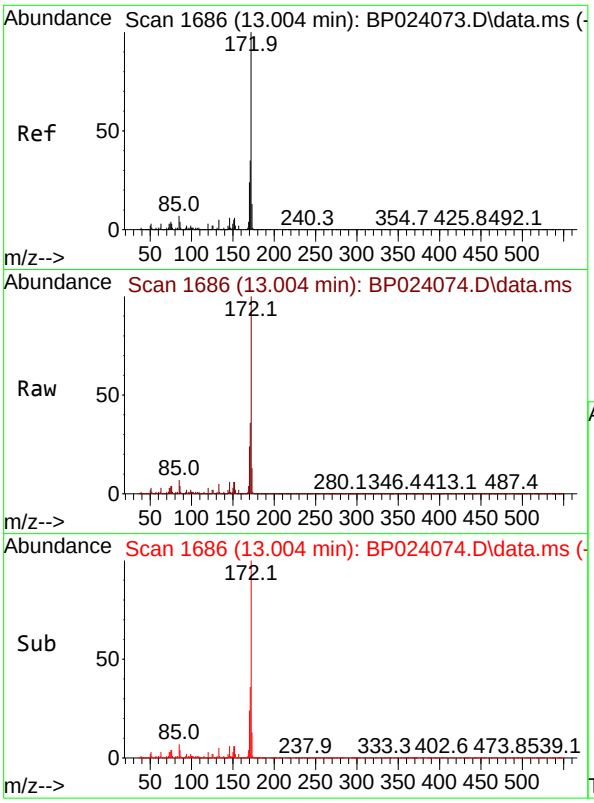


#44
2,4,5-Trichlorophenol
Concen: 51.788 ng
RT: 12.893 min Scan# 1667
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:196 Resp: 1042099

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.4	116.2
97	47.3	39.0	58.4
132	27.6	21.9	32.9

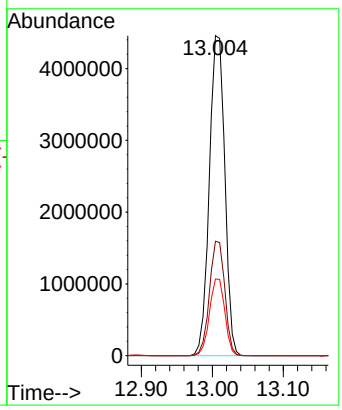




#45
2-Fluorobiphenyl
Concen: 96.065 ng
RT: 13.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:172 Resp: 674743

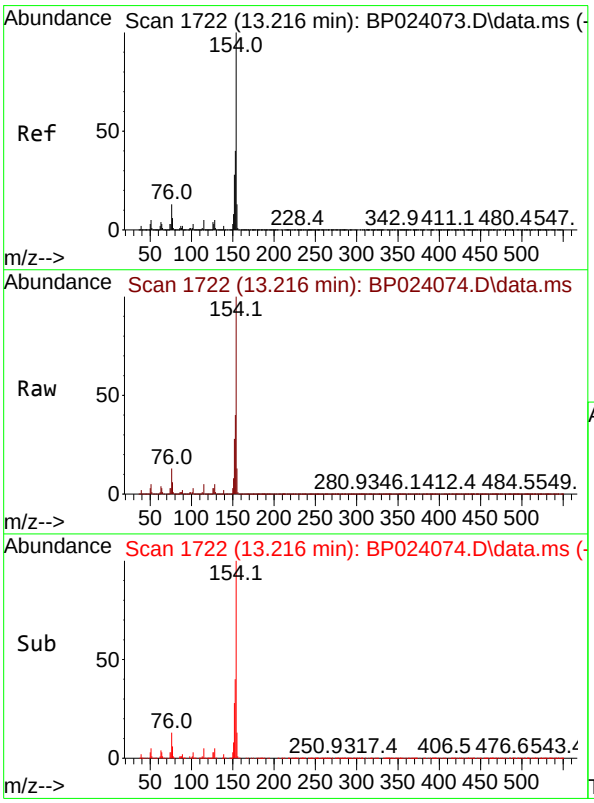
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	23.9	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

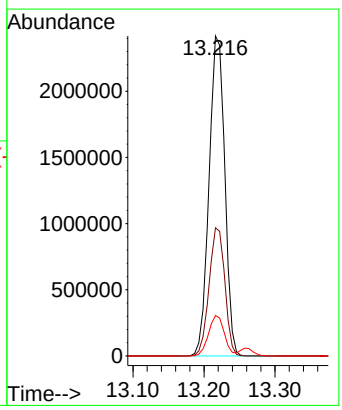
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

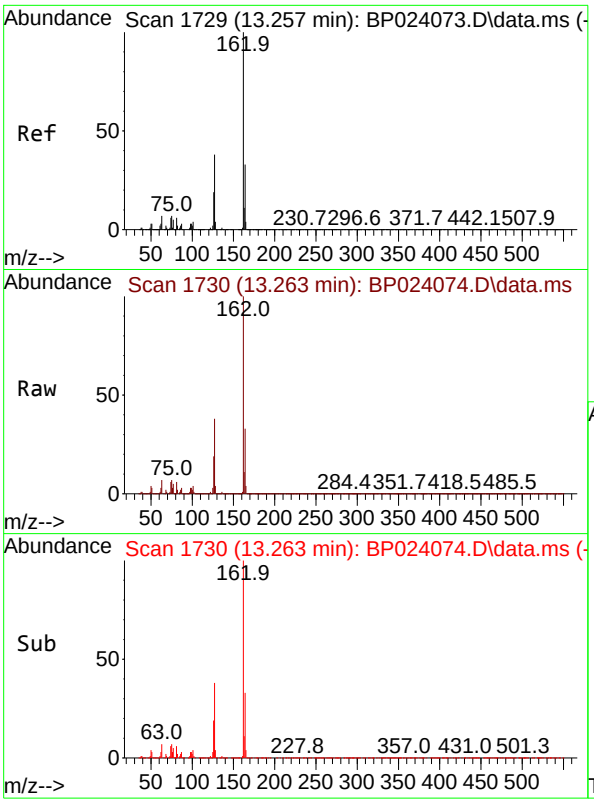


#46
1,1'-Biphenyl
Concen: 48.720 ng
RT: 13.216 min Scan# 1722
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:154 Resp: 3717437

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.0	60.0
76	12.7	0.0	32.6

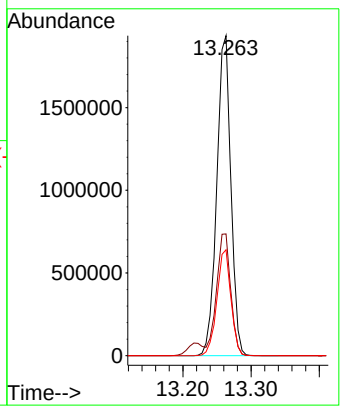




#47
2-Chloronaphthalene
Concen: 48.239 ng
RT: 13.263 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:162 Resp: 278245

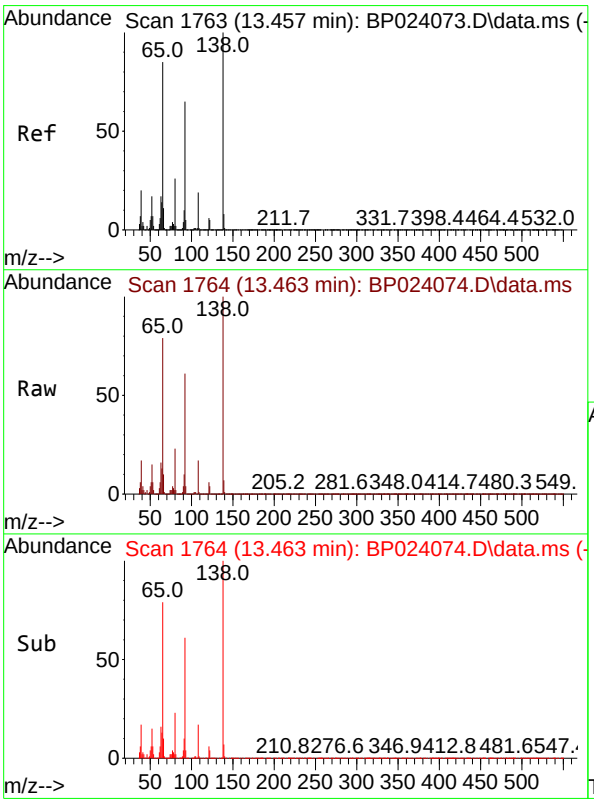
Ion	Ratio	Lower	Upper
162	100		
127	38.0	30.7	46.1
164	33.1	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

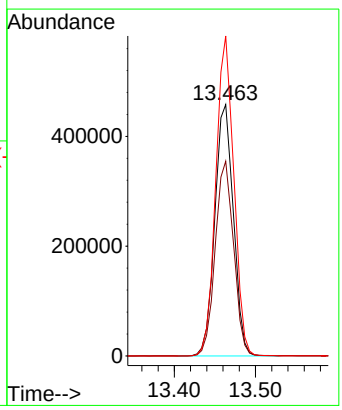
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

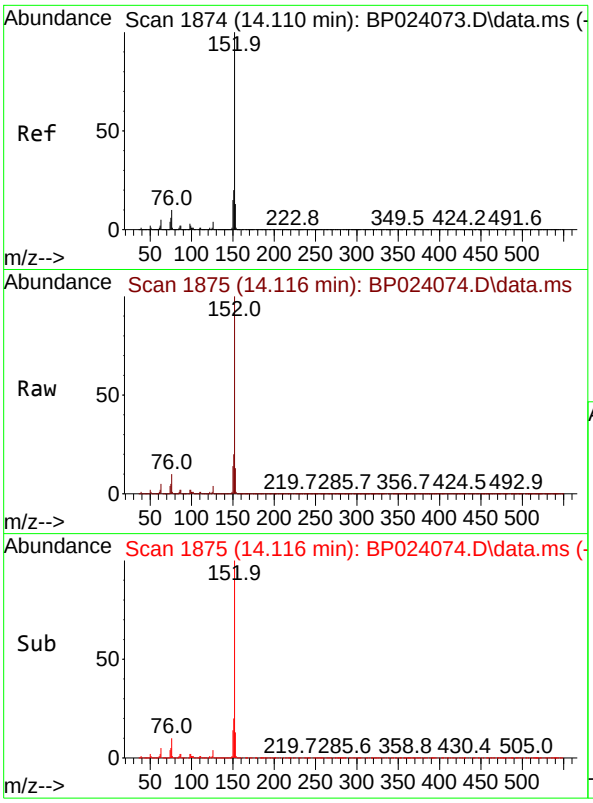


#48
2-Nitroaniline
Concen: 53.574 ng
RT: 13.463 min Scan# 1764
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 65 Resp: 729962

Ion	Ratio	Lower	Upper
65	100		
92	77.5	61.7	92.5
138	127.3	94.6	142.0

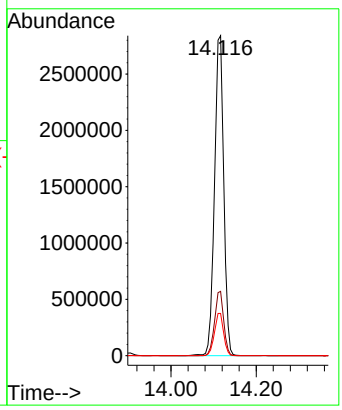




#49
Acenaphthylene
Concen: 50.236 ng
RT: 14.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:152 Resp: 426917

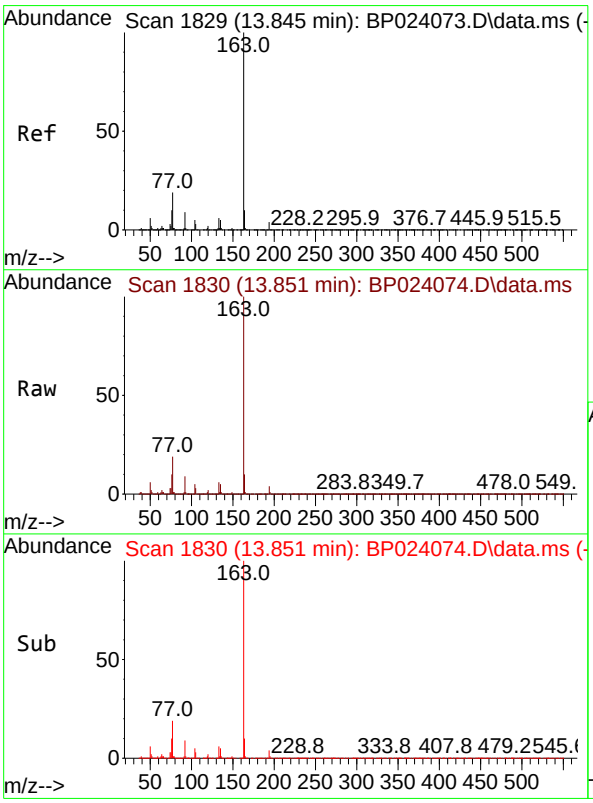
Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	13.2	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

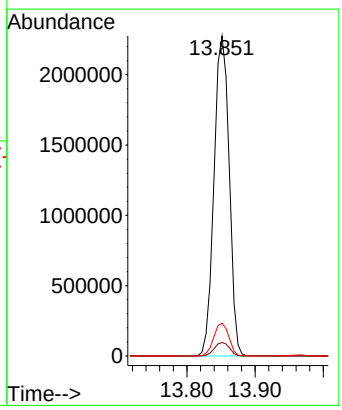
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

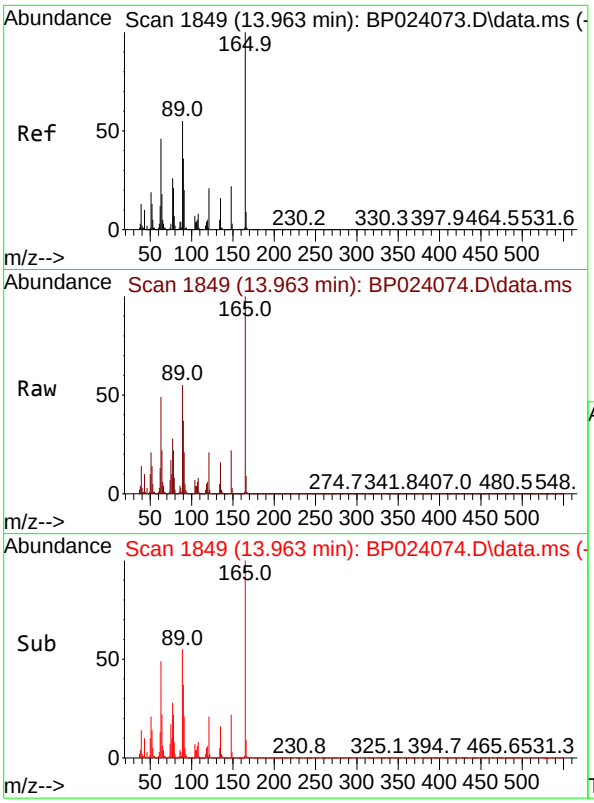


#50
Dimethylphthalate
Concen: 50.867 ng
RT: 13.851 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:163 Resp: 3523238

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.3	8.1	12.1

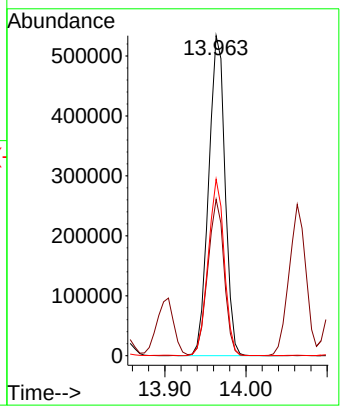




#51
2,6-Dinitrotoluene
Concen: 52.855 ng
RT: 13.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:165 Resp: 74574

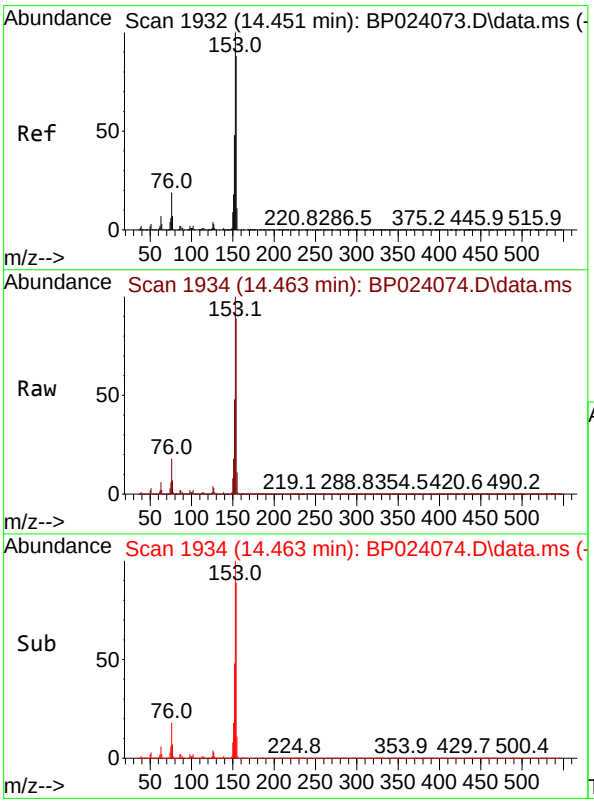
Ion	Ratio	Lower	Upper
165	100		
63	48.9	40.1	60.1
89	55.1	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

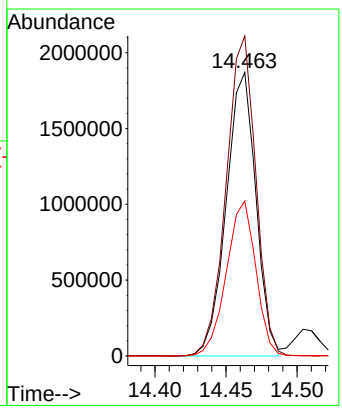
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

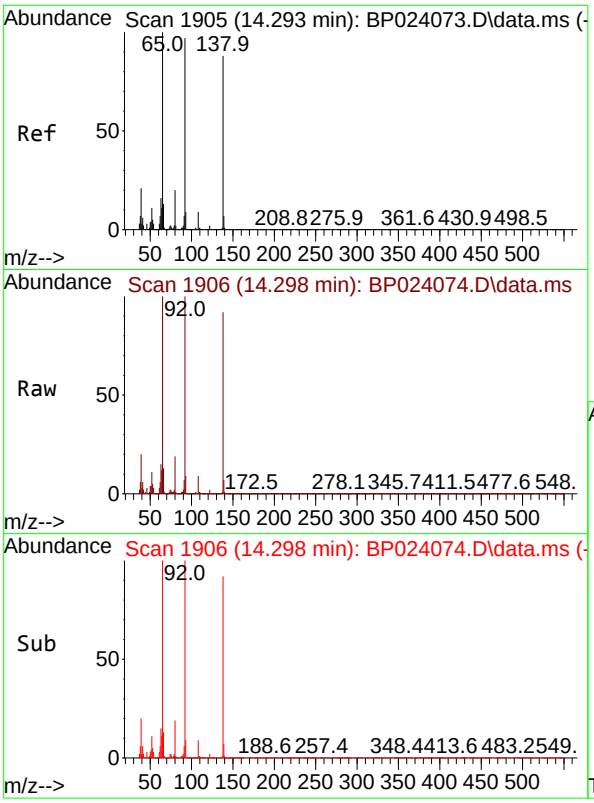


#52
Acenaphthene
Concen: 49.653 ng
RT: 14.463 min Scan# 1934
Delta R.T. 0.012 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:154 Resp: 2717308

Ion	Ratio	Lower	Upper
154	100		
153	112.9	90.6	135.8
152	54.7	43.6	65.4





#53
3-Nitroaniline
Concen: 54.853 ng
RT: 14.298 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

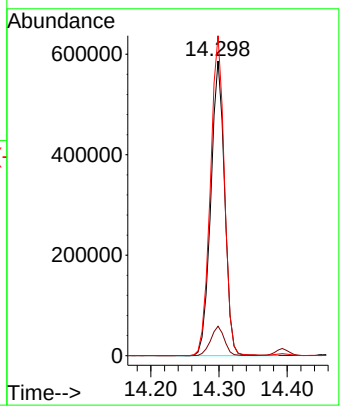
Tgt Ion:138 Resp: 82585

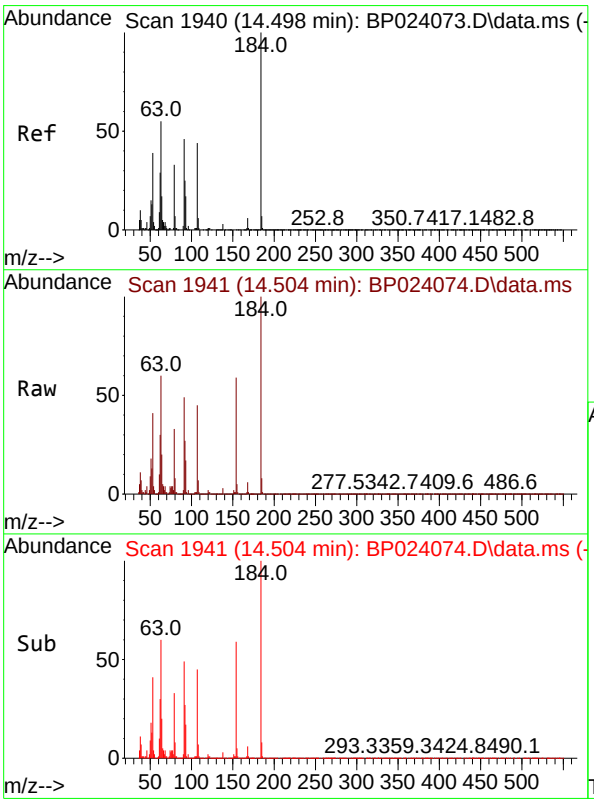
Ion	Ratio	Lower	Upper
138	100		
108	10.0	7.8	11.8
92	108.6	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

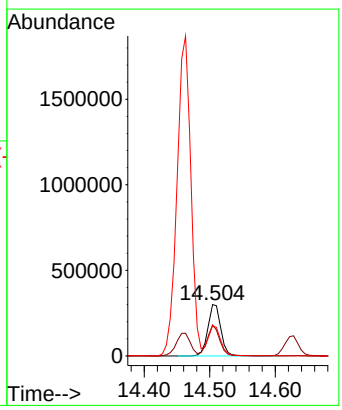


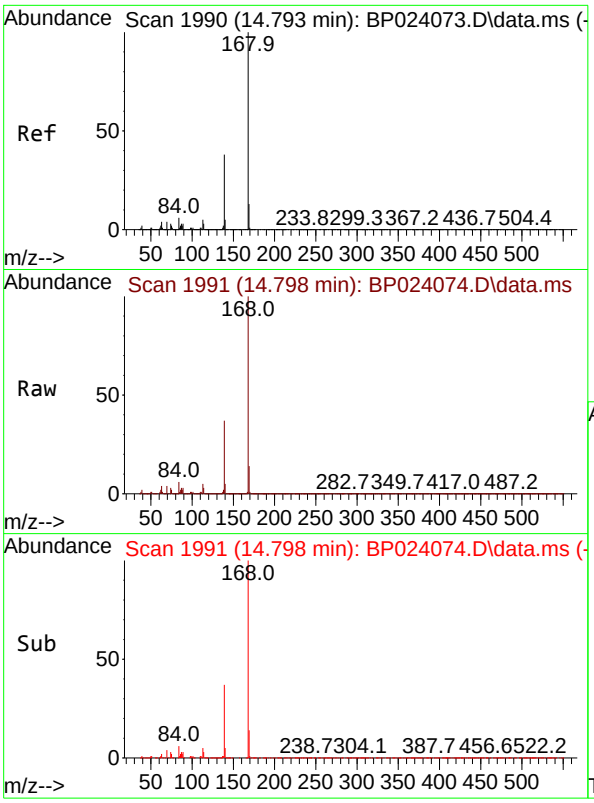


#54
2,4-Dinitrophenol
Concen: 47.964 ng
RT: 14.504 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:184 Resp: 414065

Ion	Ratio	Lower	Upper
184	100		
63	60.5	49.4	74.0
154	58.8	49.2	73.8

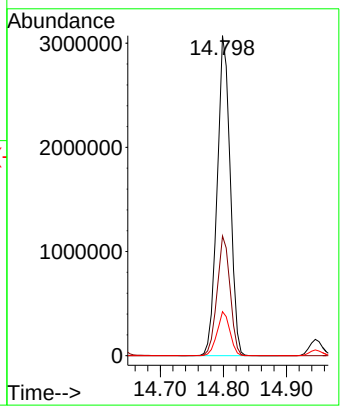




#55
Dibenzofuran
Concen: 49.503 ng
RT: 14.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:168 Resp: 440088

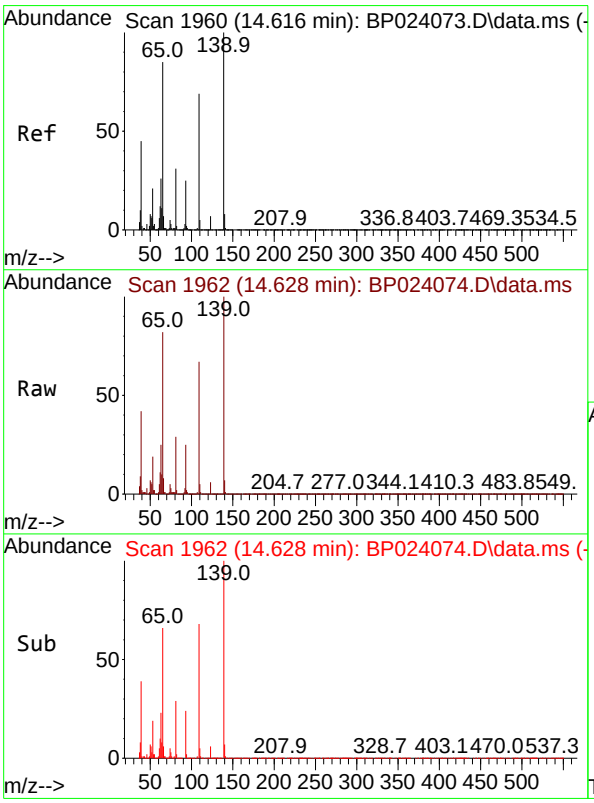
Ion	Ratio	Lower	Upper
168	100		
139	37.4	30.2	45.2
169	13.7	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

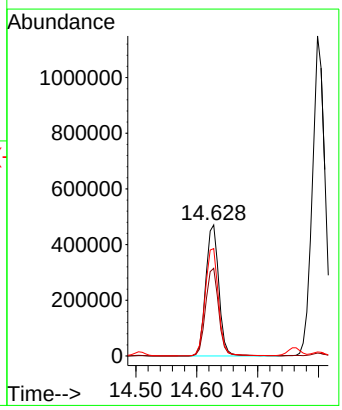
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

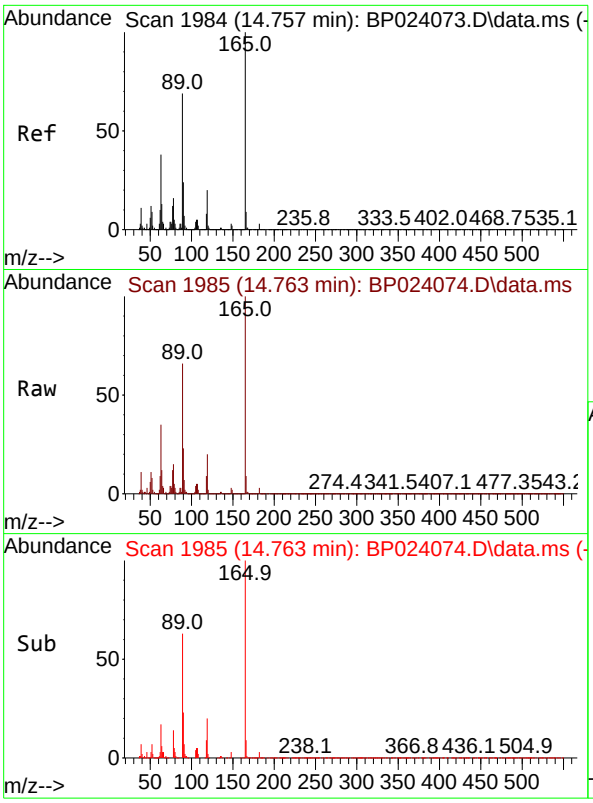


#56
4-Nitrophenol
Concen: 54.122 ng
RT: 14.628 min Scan# 1962
Delta R.T. 0.012 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:139 Resp: 703877

Ion	Ratio	Lower	Upper
139	100		
109	66.9	49.2	89.2
65	82.0	65.4	105.4

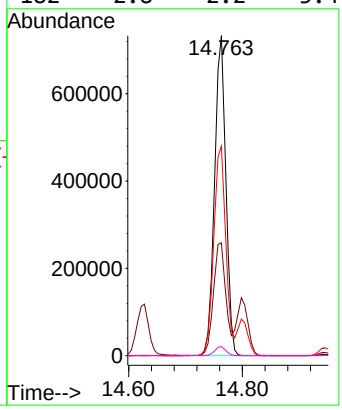




#57
2,4-Dinitrotoluene
Concen: 55.138 ng
RT: 14.763 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:165 Resp: 101060

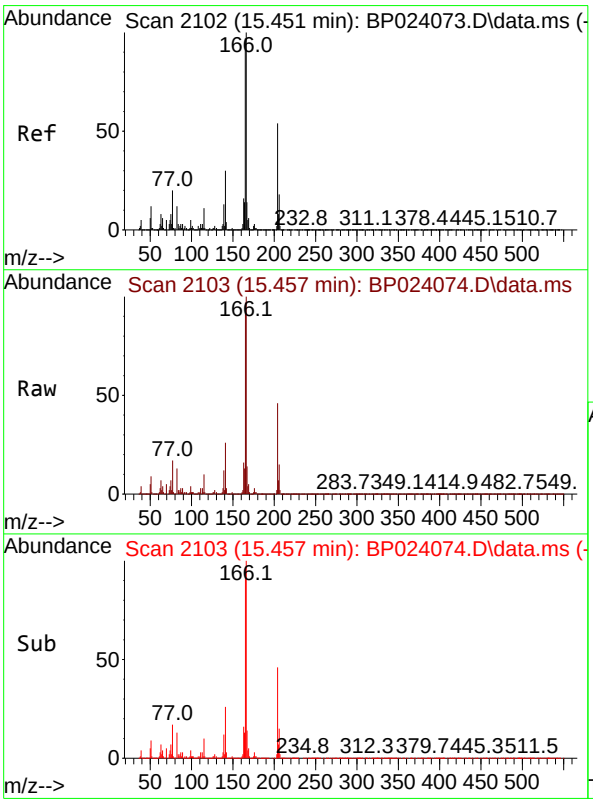
Ion	Ratio	Lower	Upper
165	100		
63	35.2	30.4	45.6
89	65.5	54.8	82.2
182	2.8	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

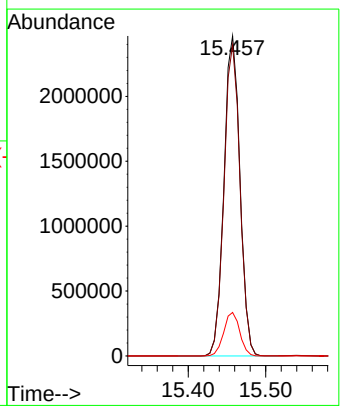
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

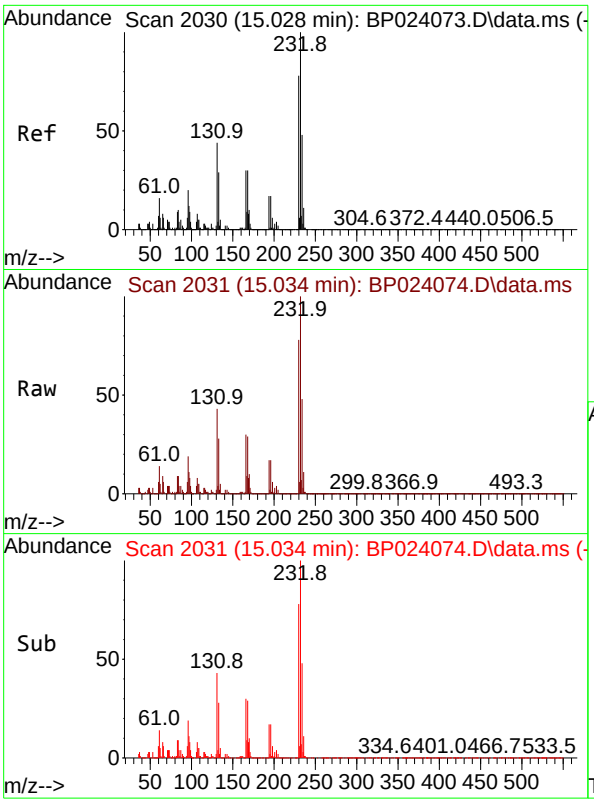


#58
Fluorene
Concen: 50.844 ng
RT: 15.457 min Scan# 2103
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:166 Resp: 3530097

Ion	Ratio	Lower	Upper
166	100		
165	97.2	77.5	116.3
167	13.6	10.9	16.3

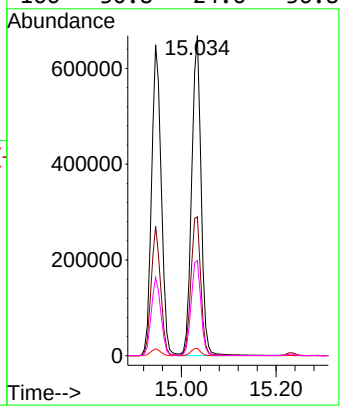




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.933 ng
RT: 15.034 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:232 Resp: 92411

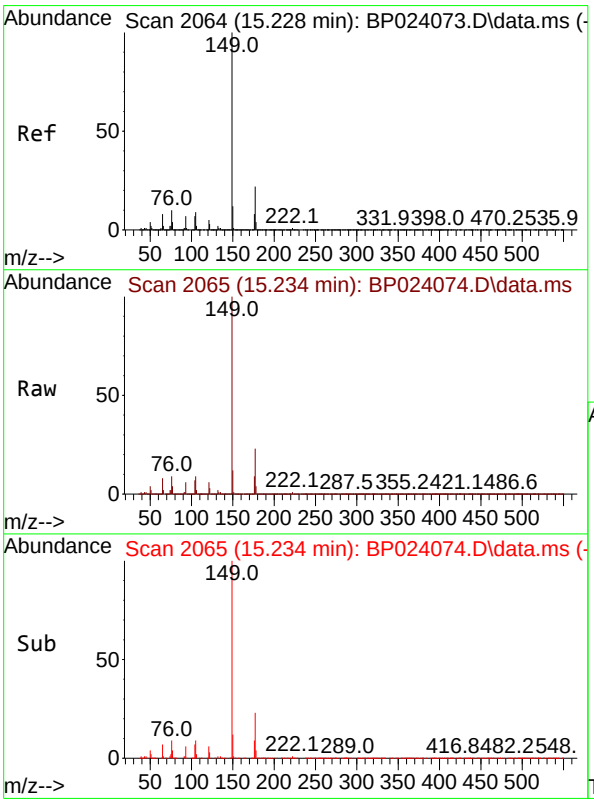
Ion	Ratio	Lower	Upper
232	100		
131	45.3	37.3	55.9
130	2.4	1.9	2.9
166	30.8	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

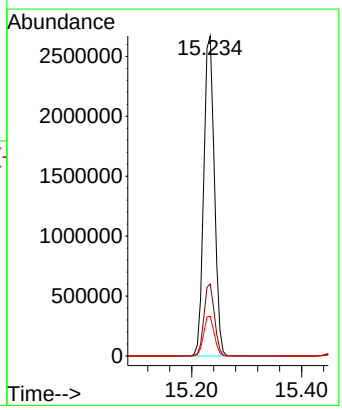
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

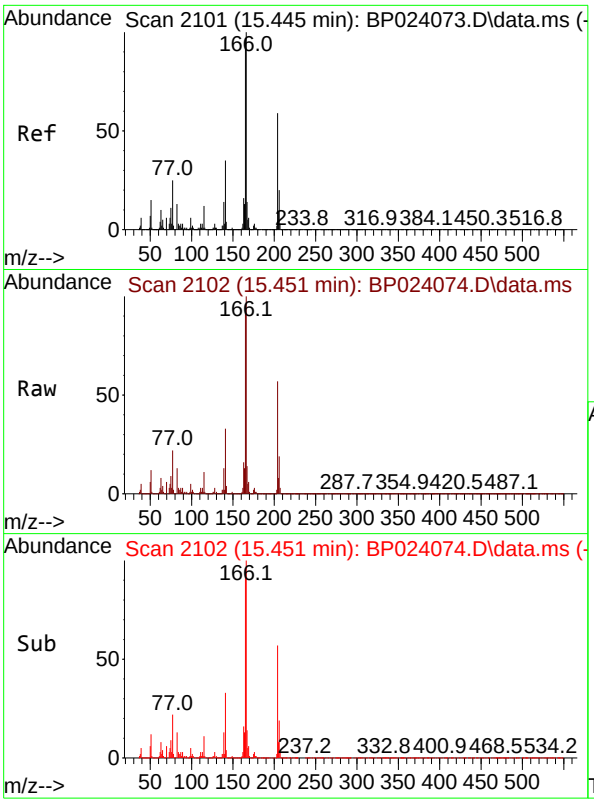


#60
Diethylphthalate
Concen: 51.905 ng
RT: 15.234 min Scan# 2065
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:149 Resp: 3568867

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.9	26.9
150	12.5	9.8	14.6

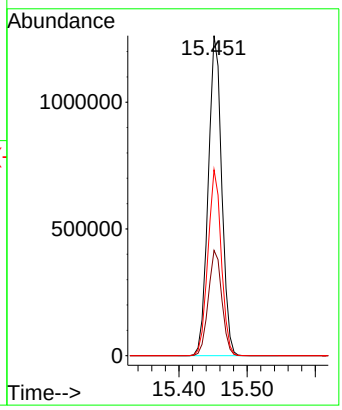




#61
4-Chlorophenyl-phenylether
Concen: 50.707 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:204 Resp: 173286

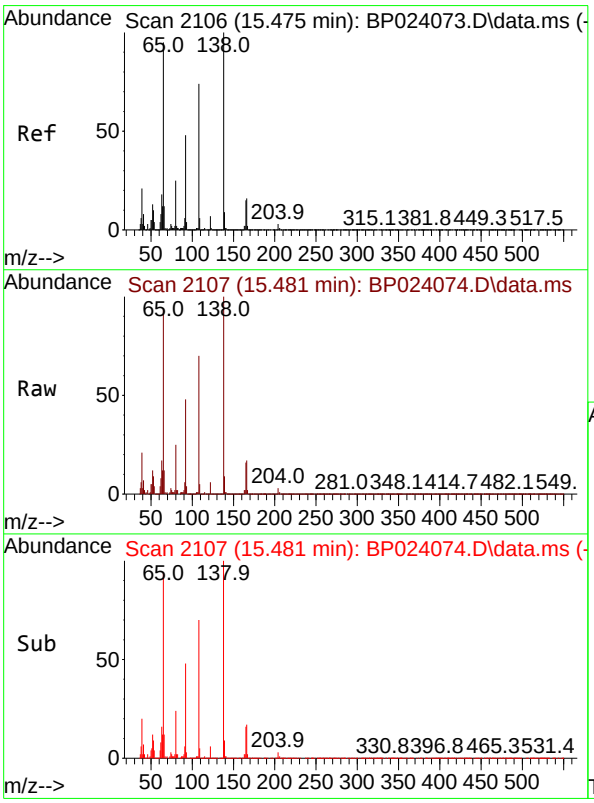
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.6	39.8
141	58.1	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

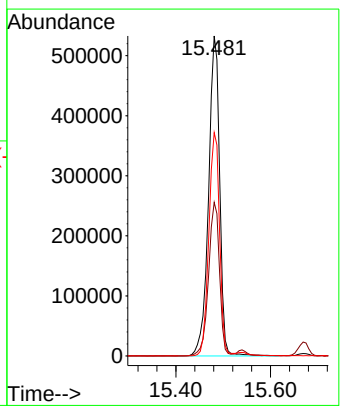
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

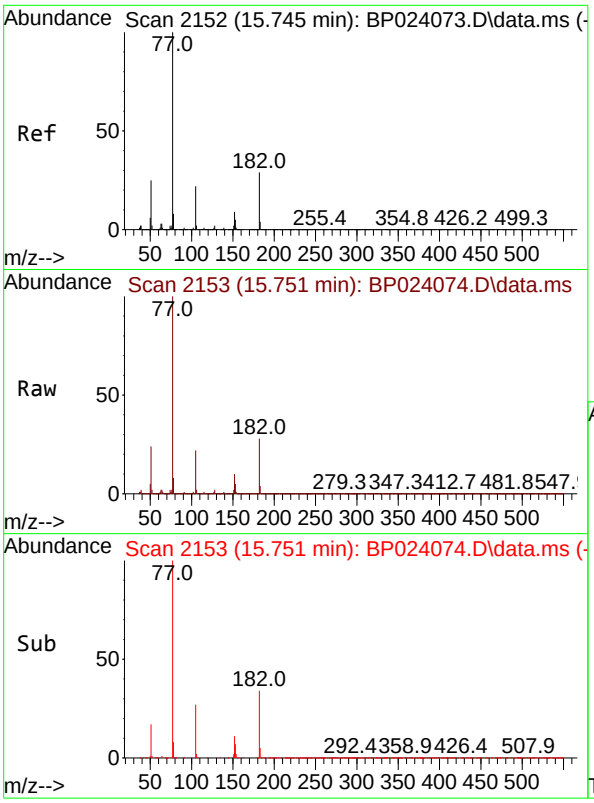


#62
4-Nitroaniline
Concen: 48.832 ng
RT: 15.481 min Scan# 2107
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:138 Resp: 871498

Ion	Ratio	Lower	Upper
138	100		
92	48.0	28.3	68.3
108	69.8	54.0	94.0

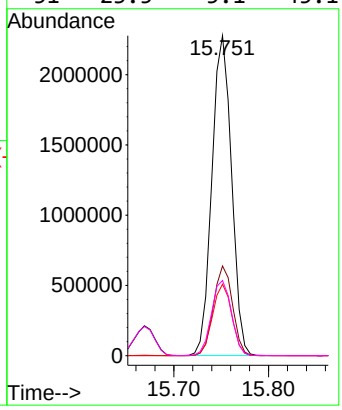




#63
Azobenzene
Concen: 50.774 ng
RT: 15.751 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion: 77 Resp: 327138

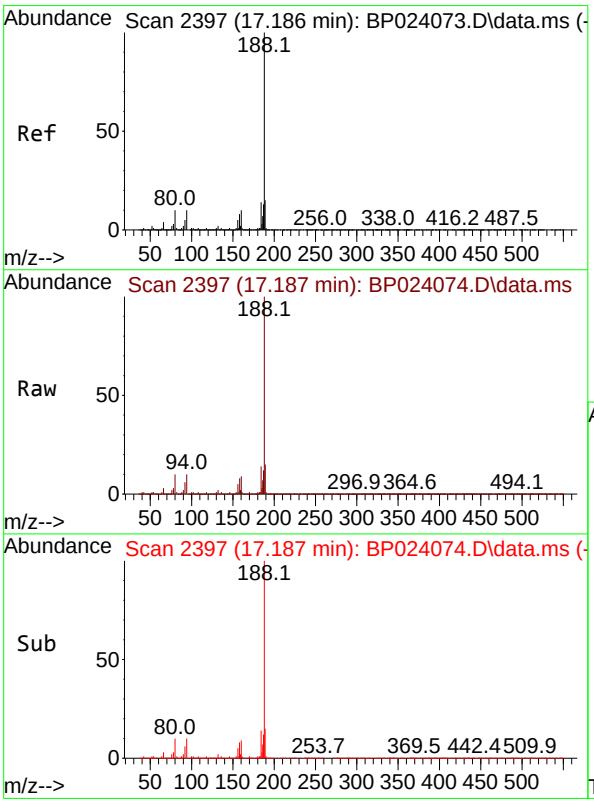
Ion	Ratio	Lower	Upper
77	100		
182	28.0	8.5	48.5
105	22.3	1.8	41.8
51	23.5	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

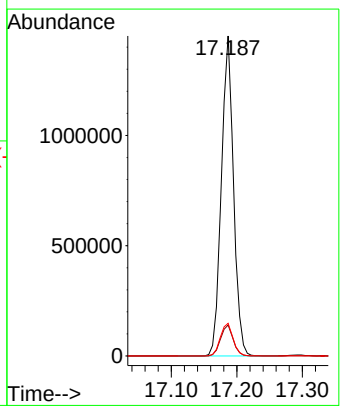
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

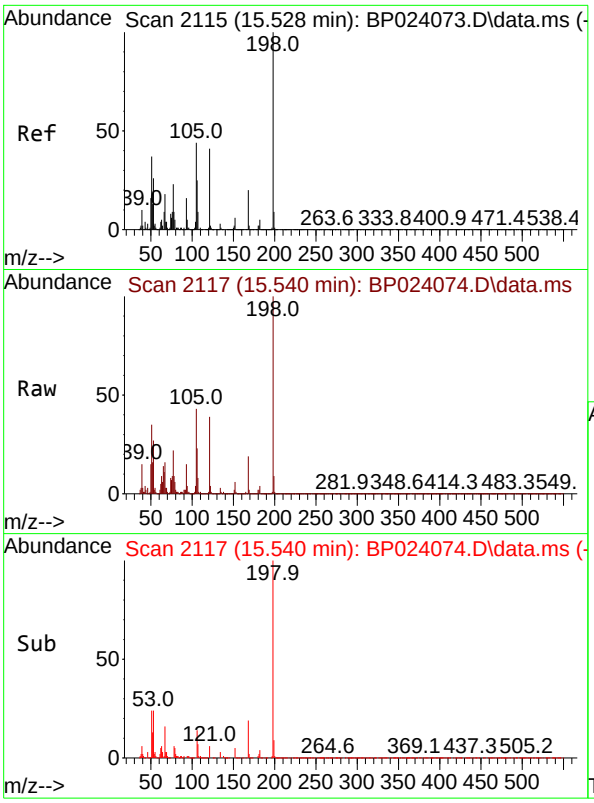


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.187 min Scan# 2397
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:188 Resp: 1856340

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.6	11.4
80	10.2	8.2	12.2

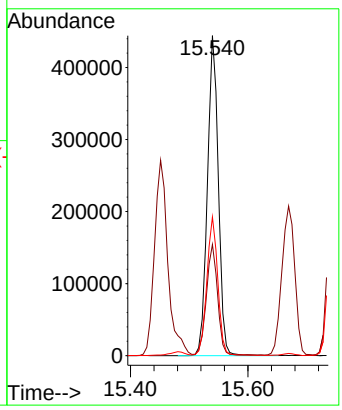




#65
4,6-Dinitro-2-methylphenol
Concen: 47.987 ng
RT: 15.540 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:198 Resp: 57218

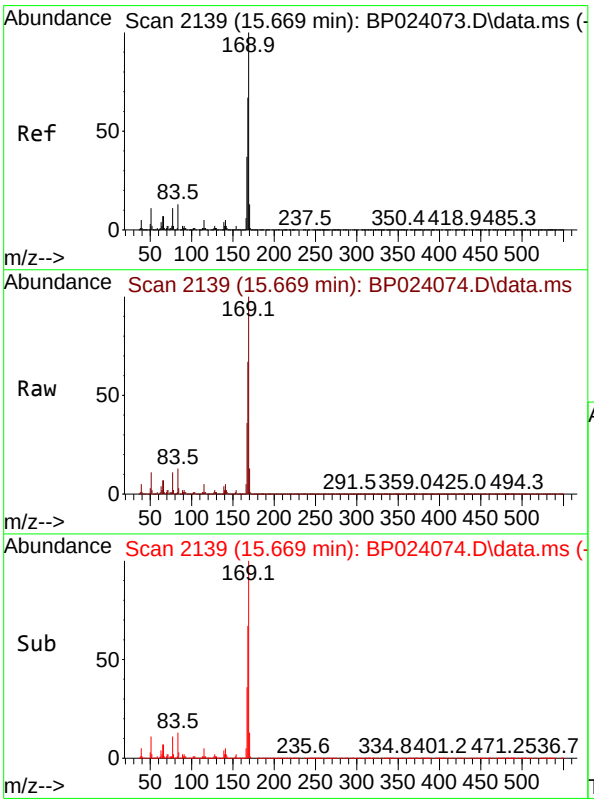
Ion	Ratio	Lower	Upper
198	100		
51	34.8	18.7	58.7
105	43.4	24.7	64.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

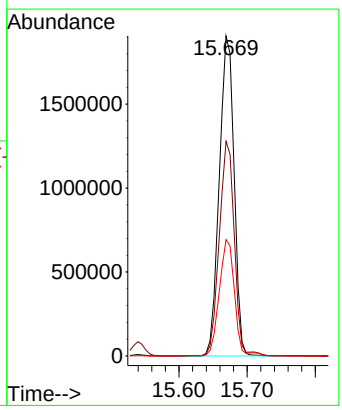
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

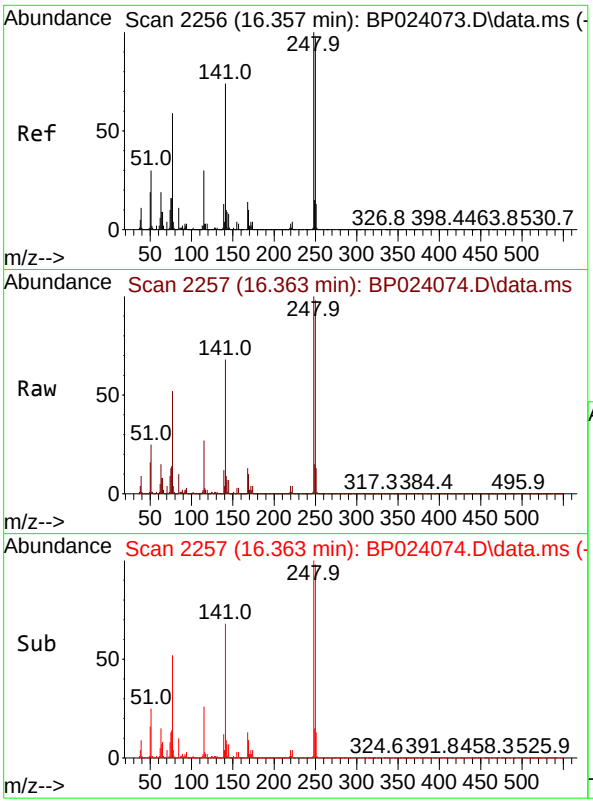


#66
n-Nitrosodiphenylamine
Concen: 49.786 ng
RT: 15.669 min Scan# 2139
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:169 Resp: 2882057

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.6	80.4
167	36.3	29.5	44.3

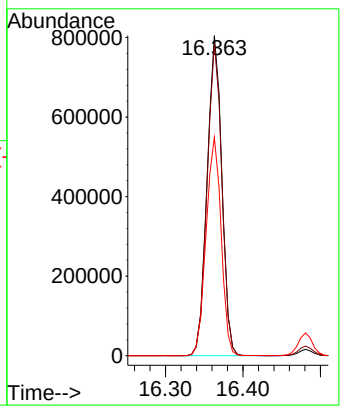




#67
4-Bromophenyl-phenylether
Concen: 50.959 ng
RT: 16.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:248 Resp: 106228

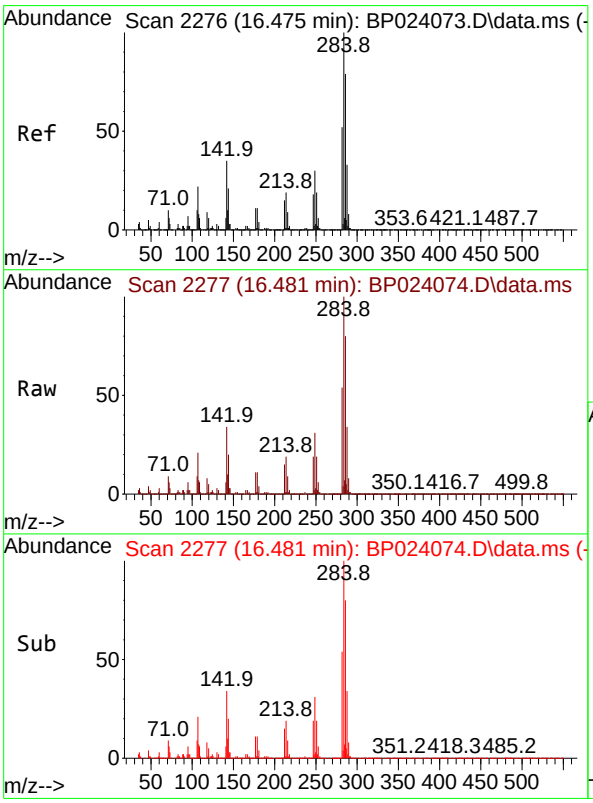
Ion	Ratio	Lower	Upper
248	100		
250	97.6	77.9	116.9
141	68.2	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

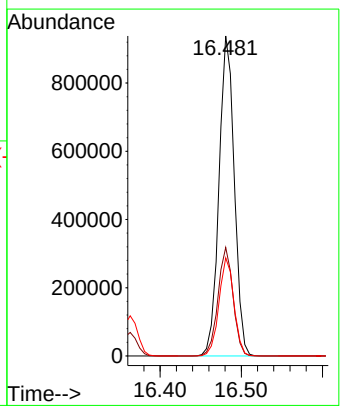
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

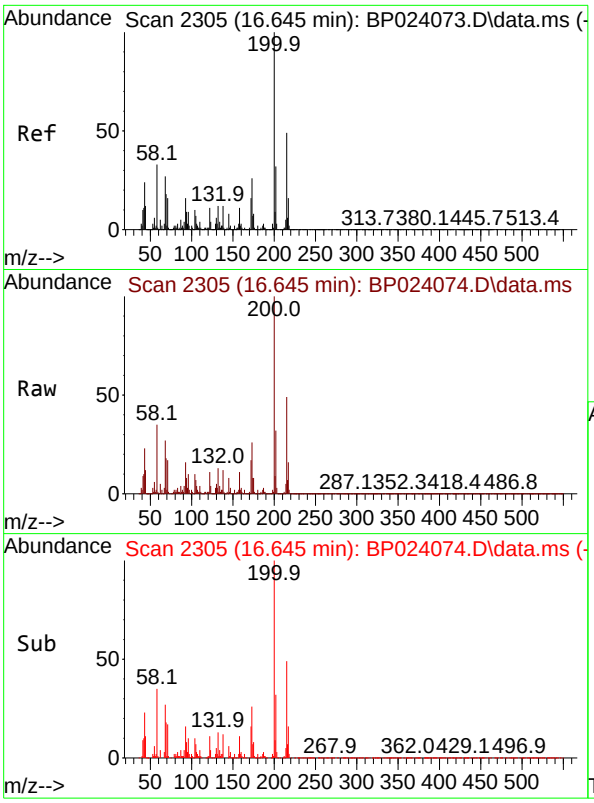


#68
Hexachlorobenzene
Concen: 50.128 ng
RT: 16.481 min Scan# 2277
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:284 Resp: 1229587

Ion	Ratio	Lower	Upper
284	100		
142	33.9	27.7	41.5
249	30.7	23.8	35.6

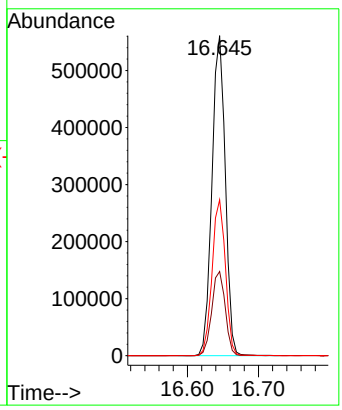




#69
Atrazine
Concen: 49.209 ng
RT: 16.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:200 Resp: 73105

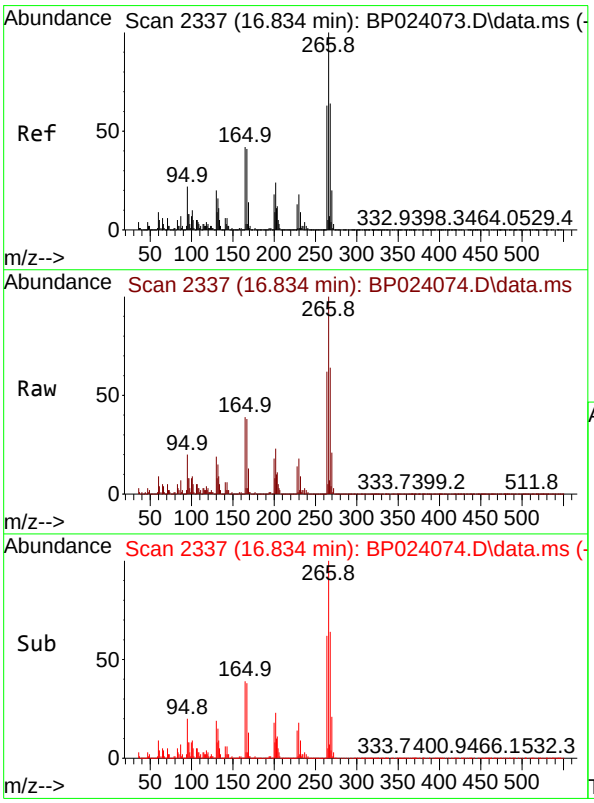
Ion	Ratio	Lower	Upper
200	100		
173	26.3	5.7	45.7
215	48.7	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

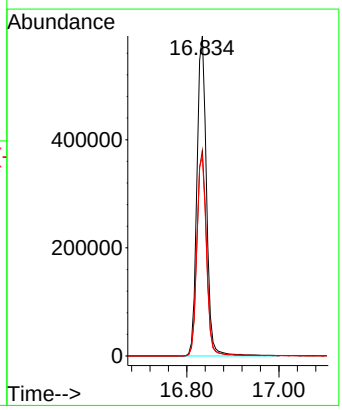
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

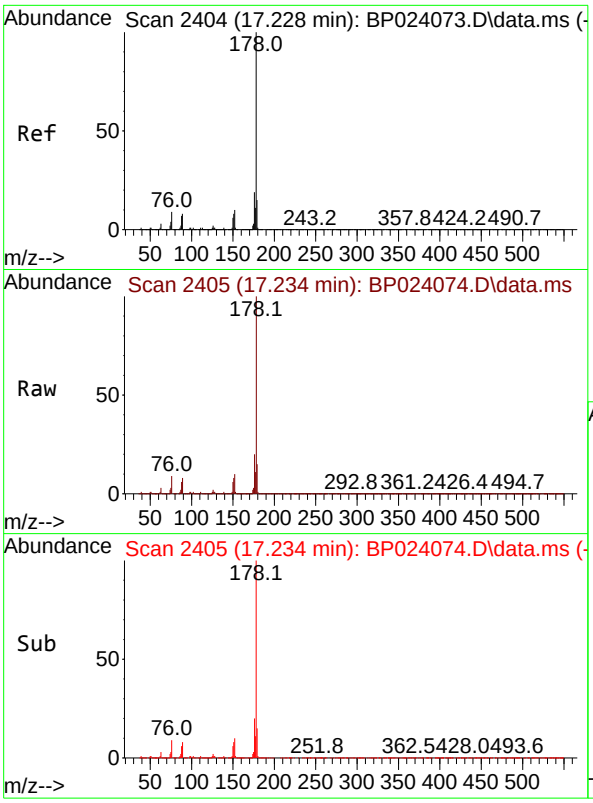


#70
Pentachlorophenol
Concen: 53.454 ng
RT: 16.834 min Scan# 2337
Delta R.T. -0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:266 Resp: 851580

Ion	Ratio	Lower	Upper
266	100		
268	64.1	51.3	76.9
264	62.3	50.5	75.7

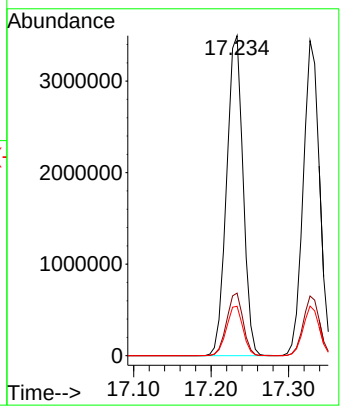




#71
Phenanthrene
Concen: 49.410 ng
RT: 17.234 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:178 Resp: 517117

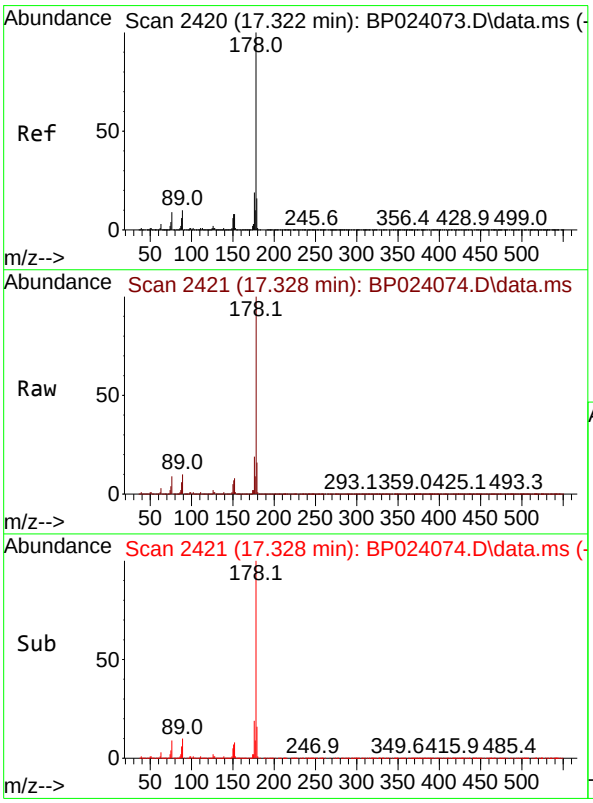
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.5	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

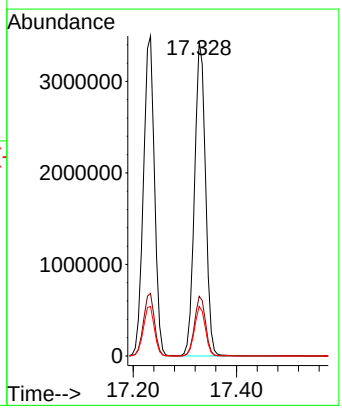
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

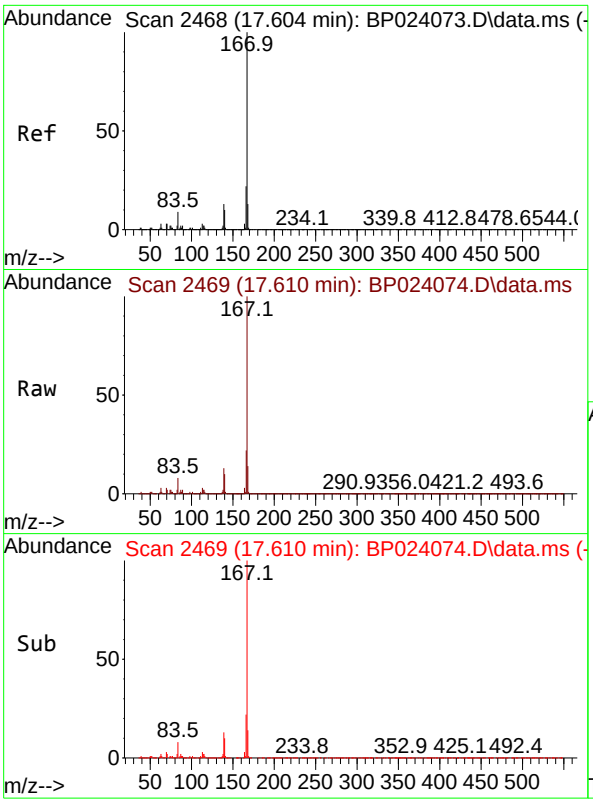


#72
Anthracene
Concen: 50.529 ng
RT: 17.328 min Scan# 2421
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:178 Resp: 5067711

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.7	12.6	19.0

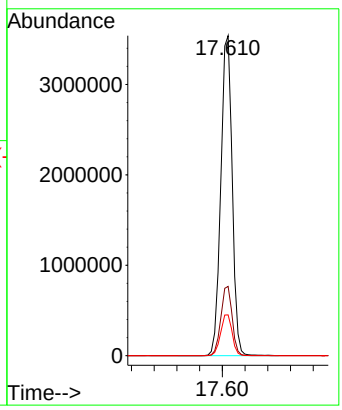




#73
Carbazole
Concen: 51.689 ng
RT: 17.610 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:167 Resp: 493924

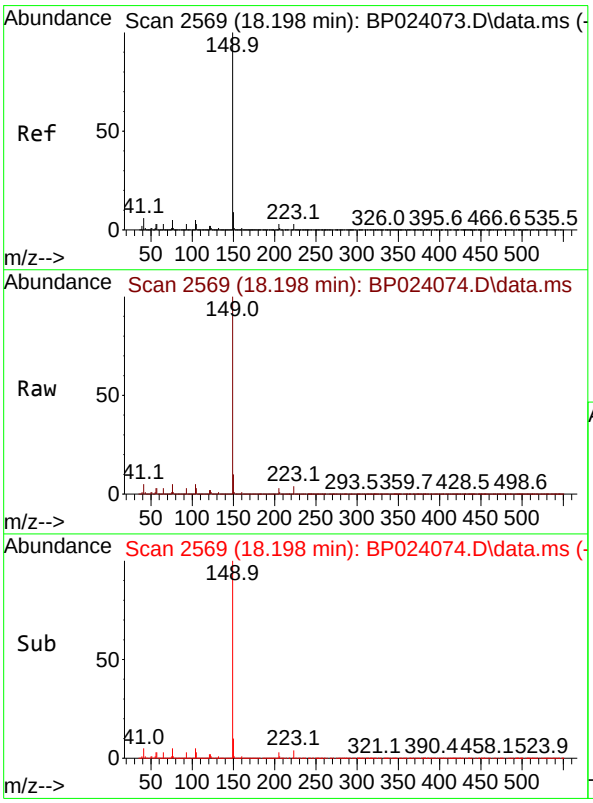
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	12.8	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

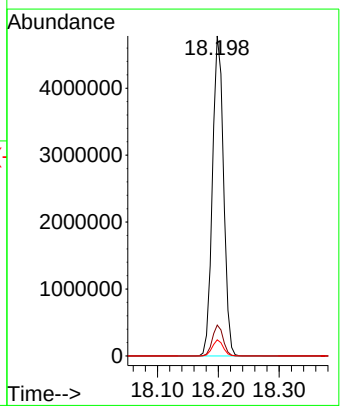
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

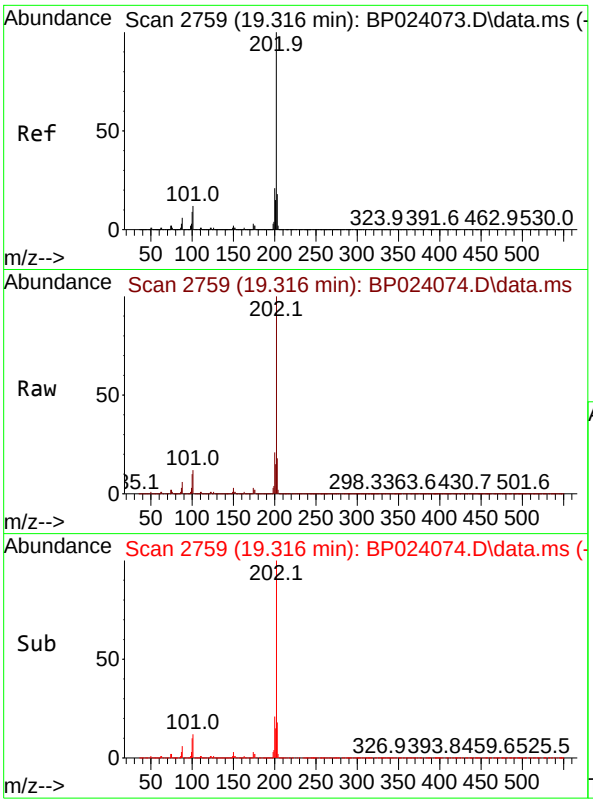


#74
Di-n-butylphthalate
Concen: 54.342 ng
RT: 18.198 min Scan# 2569
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:149 Resp: 6059028

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.4	11.2
104	5.1	4.2	6.2





#75
Fluoranthene
Concen: 51.430 ng
RT: 19.316 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

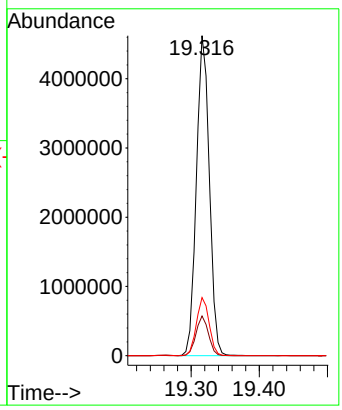
Tgt Ion:202 Resp: 608813

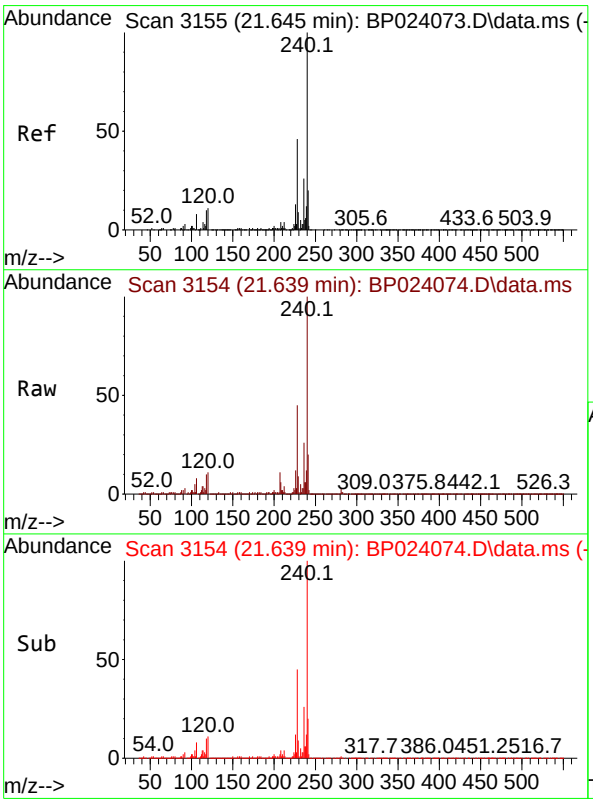
Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	31.9
203	18.2	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

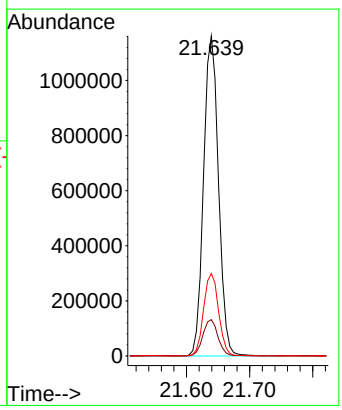


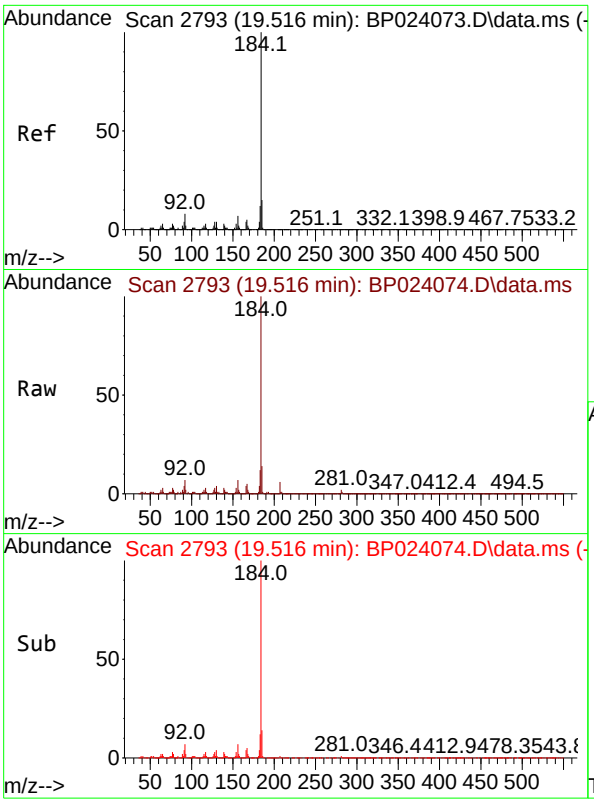


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:240 Resp: 1908683

Ion	Ratio	Lower	Upper
240	100		
120	11.4	8.9	13.3
236	25.8	20.7	31.1

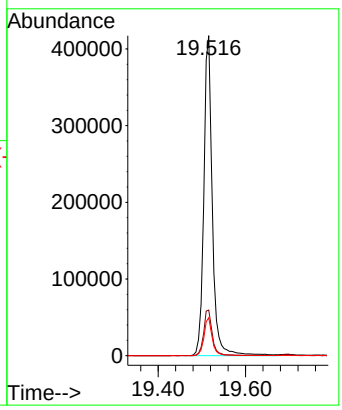




#77
Benzidine
Concen: 24.325 ng
RT: 19.516 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:184 Resp: 56576

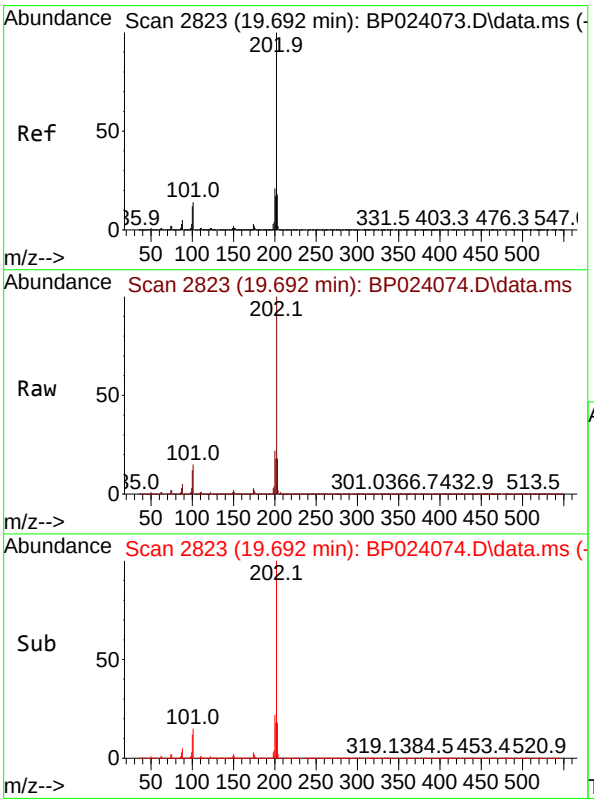
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.8	17.8
183	11.8	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

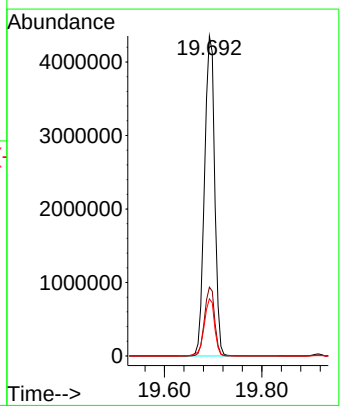
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

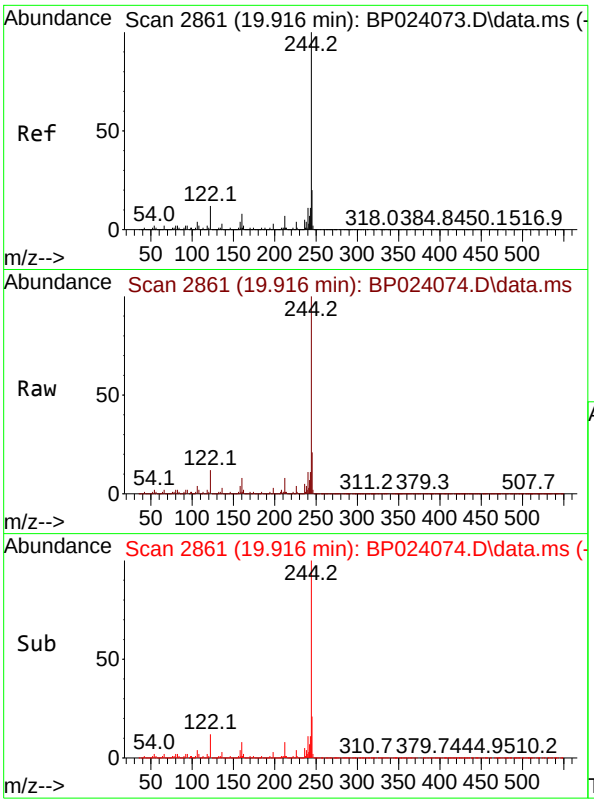


#78
Pyrene
Concen: 51.753 ng
RT: 19.692 min Scan# 2823
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:202 Resp: 6274442

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.9	14.4	21.6





#79
Terphenyl-d14
Concen: 101.726 ng
RT: 19.916 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

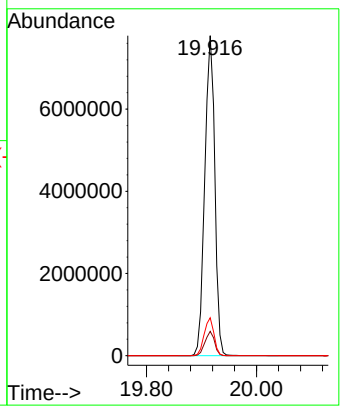
Instrument :
BNA_P
ClientSampleId :
SSTDICC050

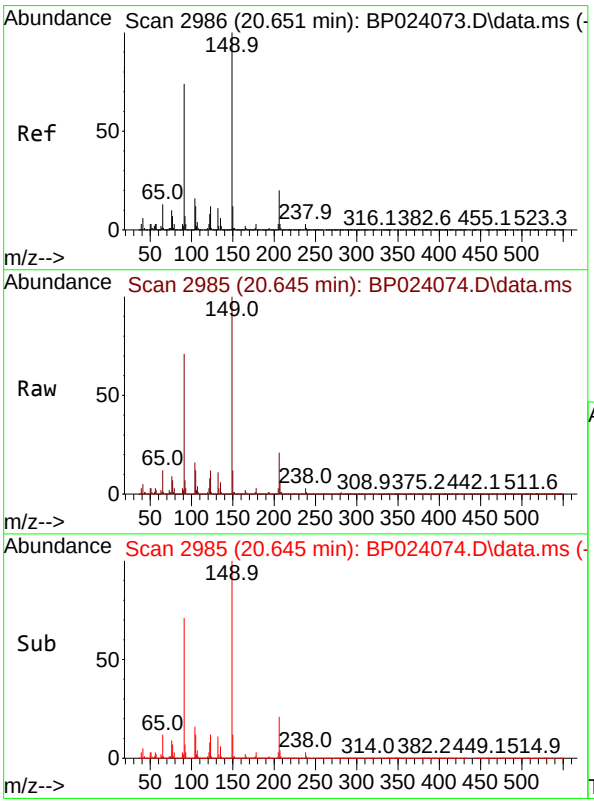
Tgt Ion:244 Resp: 981239

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.9	8.9
122	11.8	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

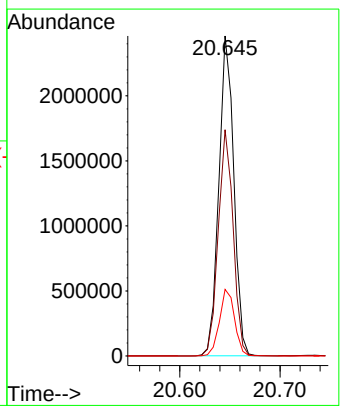


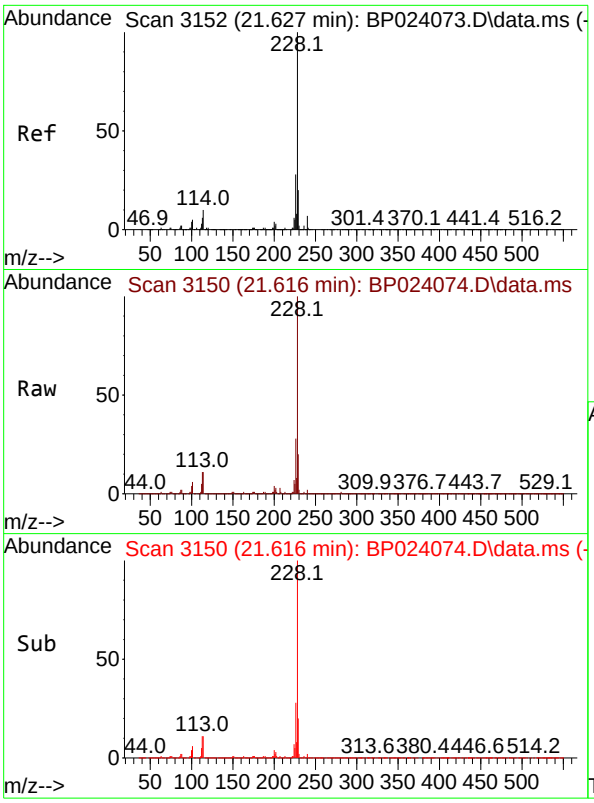


#80
Butylbenzylphthalate
Concen: 54.696 ng
RT: 20.645 min Scan# 2985
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:149 Resp: 2541058

Ion	Ratio	Lower	Upper
149	100		
91	70.7	59.4	89.0
206	20.8	16.2	24.2

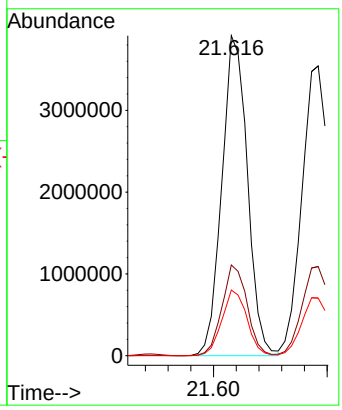




#81
Benzo(a)anthracene
Concen: 51.184 ng
RT: 21.616 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:228 Resp: 612597

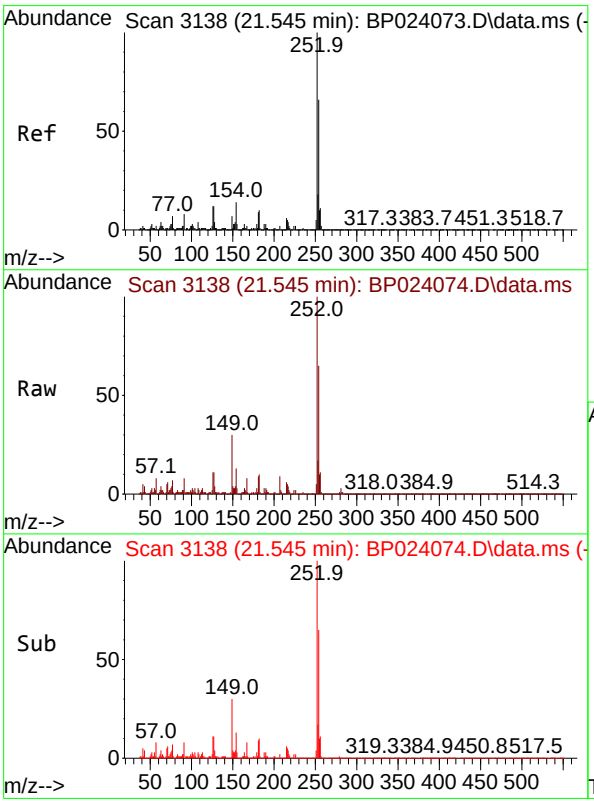
Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.2	33.4
229	20.5	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

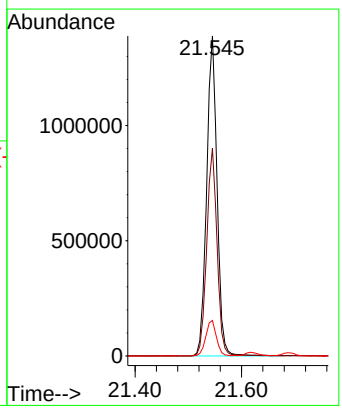
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

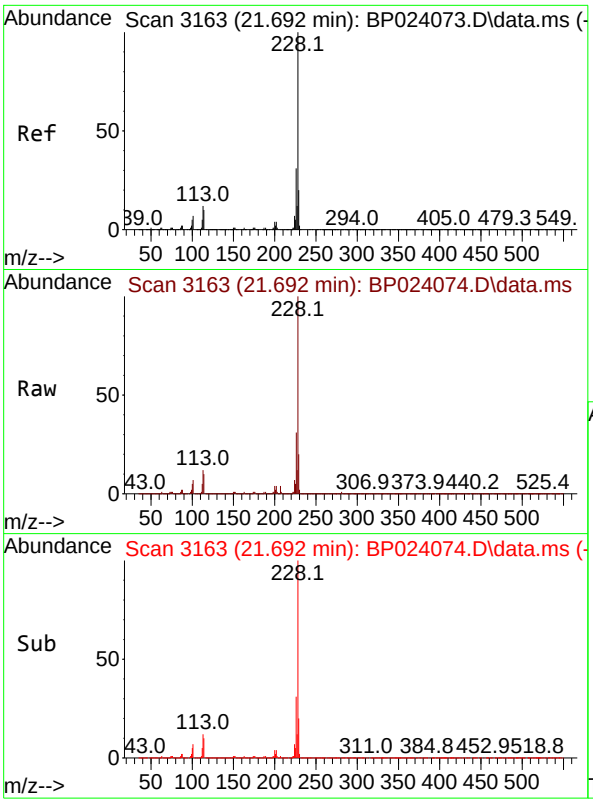


#82
3,3'-Dichlorobenzidine
Concen: 50.393 ng
RT: 21.545 min Scan# 3138
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:252 Resp: 1884681

Ion	Ratio	Lower	Upper
252	100		
254	64.9	52.4	78.6
126	11.1	9.6	14.4

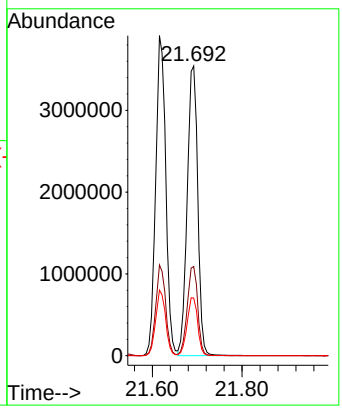




#83
Chrysene
Concen: 50.080 ng
RT: 21.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:228 Resp: 577960

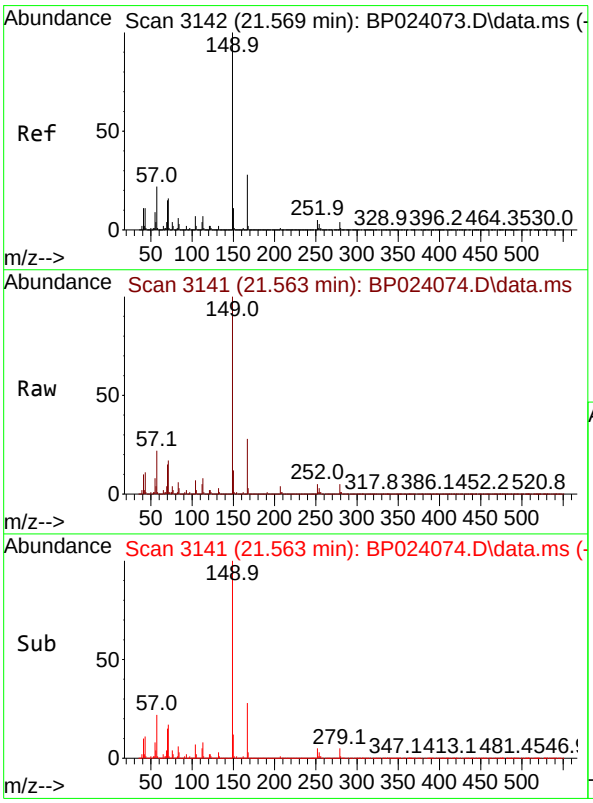
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.5	36.7
229	19.9	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

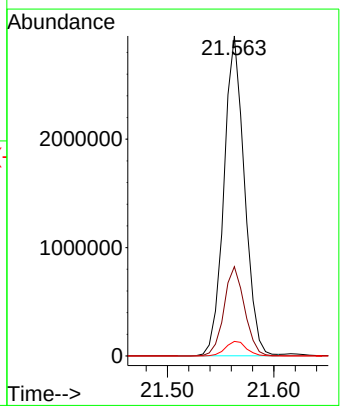
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

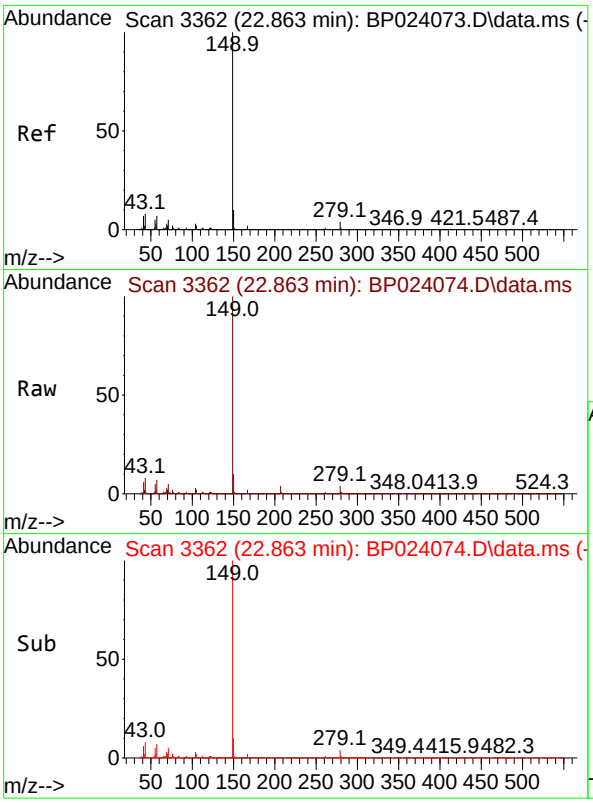


#84
Bis(2-ethylhexyl)phthalate
Concen: 56.077 ng
RT: 21.563 min Scan# 3141
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:149 Resp: 3950631

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.2	33.2
279	4.6	3.6	5.4

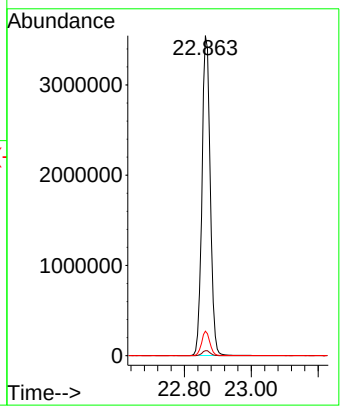




#85
Di-n-octyl phthalate
Concen: 53.864 ng
RT: 22.863 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:149 Resp: 606553

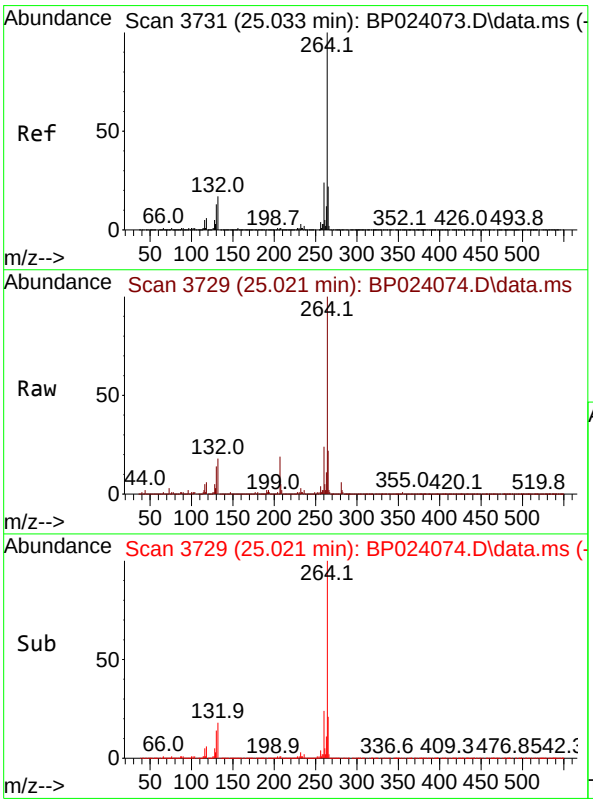
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.6	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

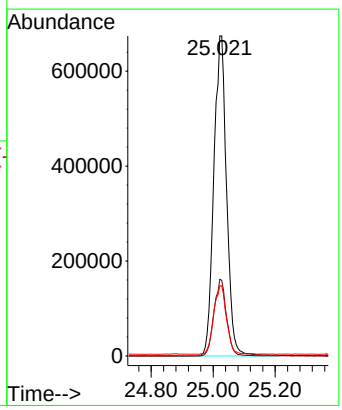
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

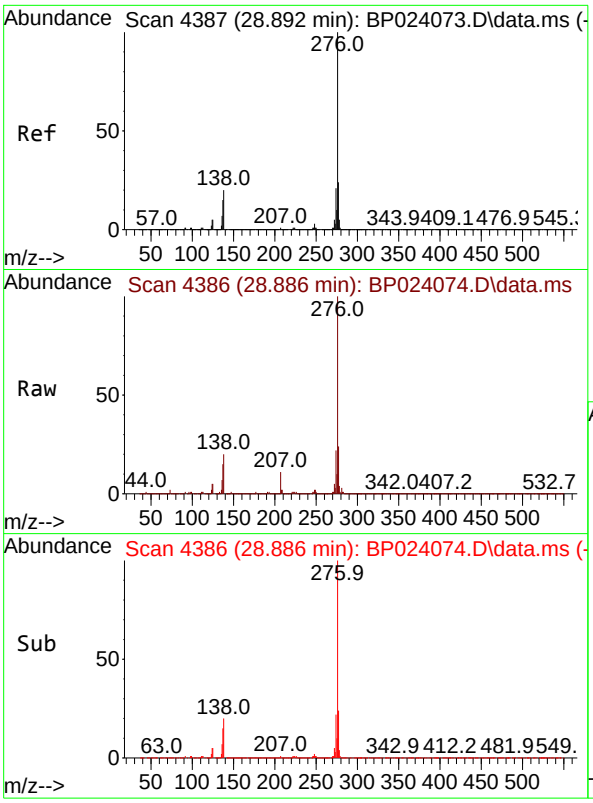


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.021 min Scan# 3729
Delta R.T. -0.012 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:264 Resp: 1919125

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.6
265	22.0	17.8	26.8

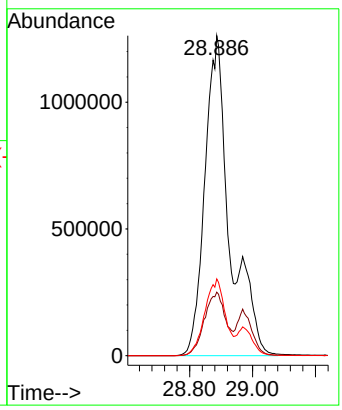




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.917 ng m
RT: 28.886 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:276 Resp: 695493

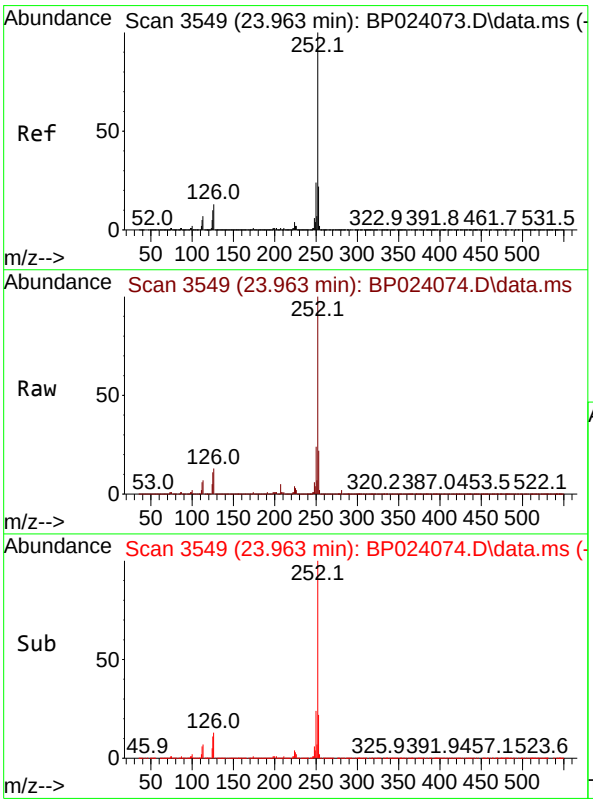
Ion	Ratio	Lower	Upper
276	100		
138	17.2	14.2	21.4
277	19.5	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

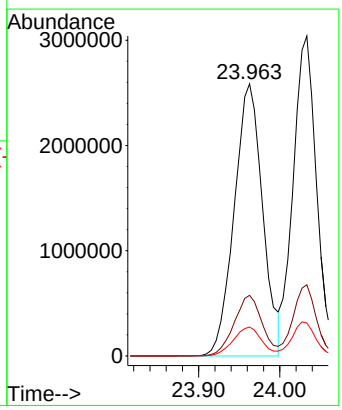
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

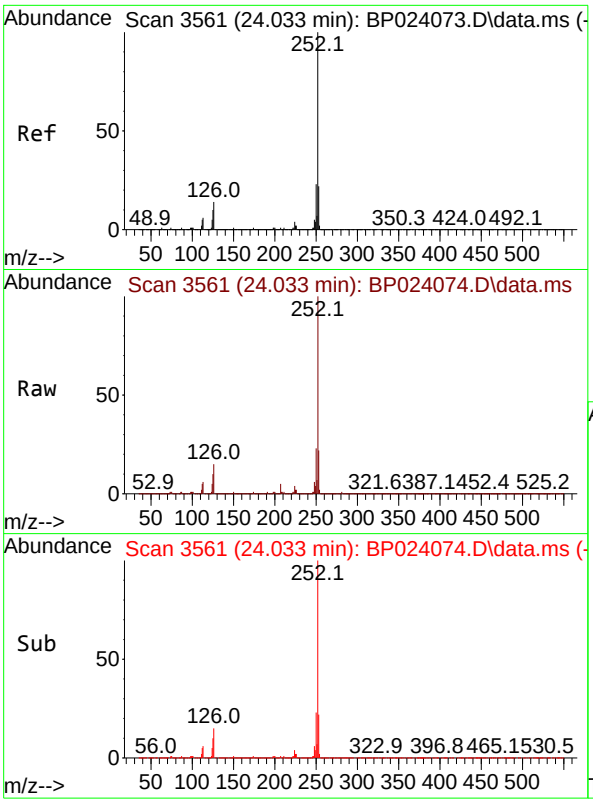


#88
Benzo(b)fluoranthene
Concen: 51.475 ng
RT: 23.963 min Scan# 3549
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:252 Resp: 6273269

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	10.7	8.4	12.6





#89
Benzo(k)fluoranthene
Concen: 51.313 ng
RT: 24.033 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

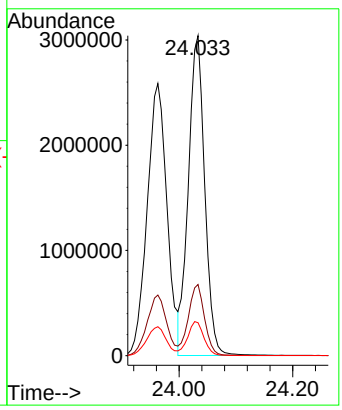
Tgt Ion:252 Resp: 6086899

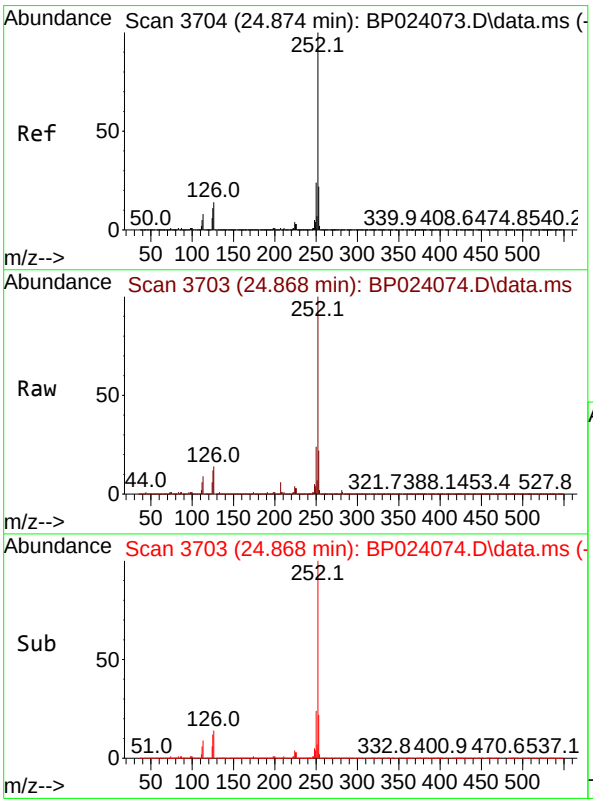
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.3	8.1	12.1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

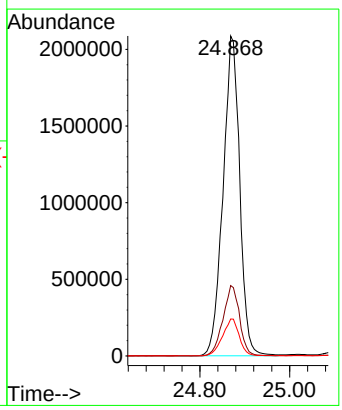


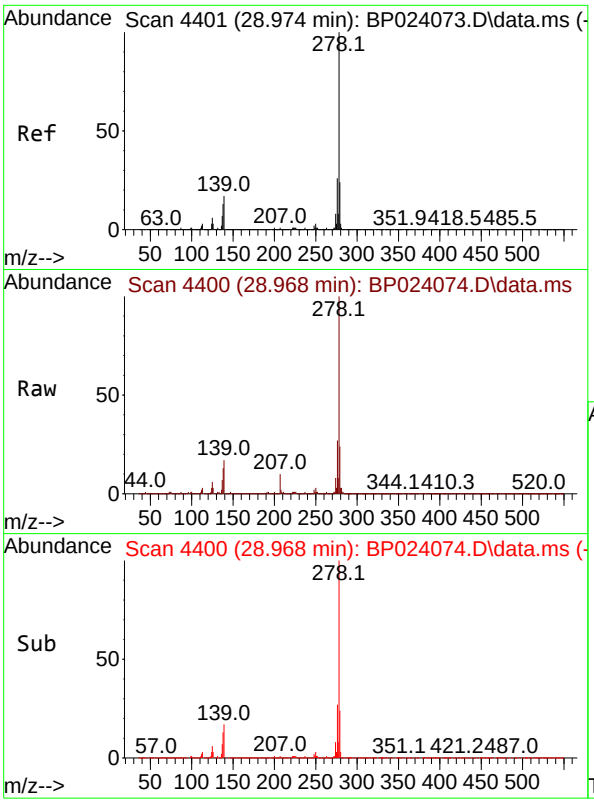


#90
Benzo(a)pyrene
Concen: 52.004 ng
RT: 24.868 min Scan# 3703
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:252 Resp: 5378549

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	11.6	8.8	13.2

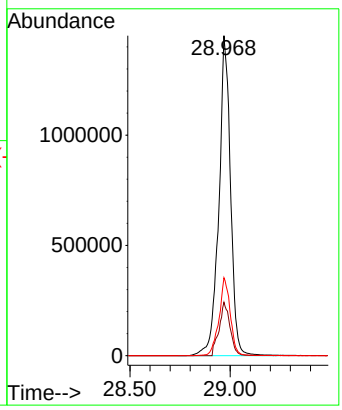




#91
Dibenzo(a,h)anthracene
Concen: 51.037 ng
RT: 28.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:278 Resp: 585880

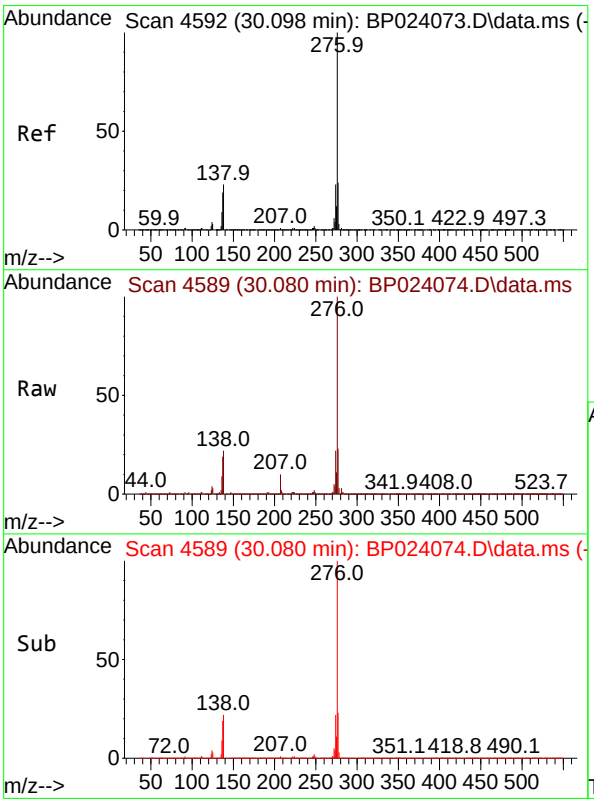
Ion	Ratio	Lower	Upper
278	100		
139	16.7	13.4	20.0
279	24.4	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

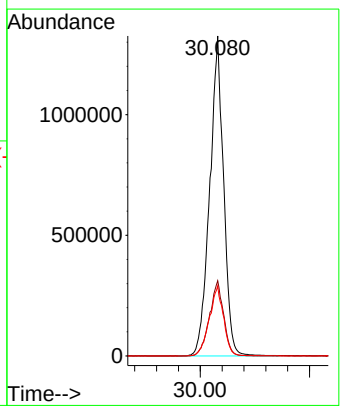
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025



#92
Benzo(g,h,i)perylene
Concen: 50.301 ng
RT: 30.080 min Scan# 4589
Delta R.T. -0.018 min
Lab File: BP024074.D
Acq: 17 Feb 2025 14:52

Tgt Ion:276 Resp: 5859496

Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.9	28.3
138	21.9	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024075.D
Acq On : 17 Feb 2025 15:33
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Quant Time: Feb 18 02:04:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	394126	20.000	ng	0.00
21) Naphthalene-d8	10.540	136	1541831	20.000	ng	0.00
39) Acenaphthene-d10	14.392	164	917370	20.000	ng	0.00
64) Phenanthrene-d10	17.198	188	1765913	20.000	ng	0.01
76) Chrysene-d12	21.651	240	1918593	20.000	ng	0.00
86) Perylene-d12	25.033	264	1894825	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	3199514	126.670	ng	0.00
7) Phenol-d6	6.946	99	4085531	125.848	ng	0.00
23) Nitrobenzene-d5	8.910	82	3407242	123.286	ng	0.00
42) 2,4,6-Tribromophenol	15.910	330	1568781	139.612	ng	0.00
45) 2-Fluorobiphenyl	13.004	172	7864706	119.852	ng	0.00
79) Terphenyl-d14	19.922	244	11631422	119.961	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.317	88	618638	62.435	ng	99
3) Pyridine	3.711	79	1645161m	63.795	ng	
4) n-Nitrosodimethylamine	3.617	42	572966	62.702	ng	97
6) Aniline	7.105	93	1817148	61.121	ng	99
8) 2-Chlorophenol	7.334	128	1651047	61.757	ng	99
9) Benzaldehyde	6.910	77	786547	53.067	ng	98
10) Phenol	6.975	94	2019553	61.864	ng	99
11) bis(2-Chloroethyl)ether	7.187	93	1543294	60.022	ng	100
12) 1,3-Dichlorobenzene	7.652	146	1764626	60.082	ng	99
13) 1,4-Dichlorobenzene	7.799	146	1802599	60.689	ng	99
14) 1,2-Dichlorobenzene	8.110	146	1725547	60.534	ng	100
15) Benzyl Alcohol	7.999	79	1279024	64.364	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.281	45	1475268	59.106	ng	99
17) 2-Methylphenol	8.205	107	1268244	63.751	ng	99
18) Hexachloroethane	8.834	117	657288	61.447	ng	99
19) n-Nitroso-di-n-propyla...	8.563	70	1136998	65.139	ng	98
20) 3+4-Methylphenols	8.528	107	1754170	64.818	ng	100
22) Acetophenone	8.575	105	2418660	61.045	ng	99
24) Nitrobenzene	8.952	77	1667986	61.325	ng	99
25) Isophorone	9.475	82	2928249	64.792	ng	100
26) 2-Nitrophenol	9.657	139	852054	67.996	ng	99
27) 2,4-Dimethylphenol	9.722	122	1058062	64.324	ng	99
28) bis(2-Chloroethoxy)met...	9.951	93	2006585	61.289	ng	100
29) 2,4-Dichlorophenol	10.193	162	1465609	65.290	ng	99
30) 1,2,4-Trichlorobenzene	10.399	180	1571391	61.098	ng	99
31) Naphthalene	10.587	128	5055188	60.977	ng	99
32) Benzoic acid	9.881	122	1097982	61.182	ng	99
33) 4-Chloroaniline	10.699	127	1893462	64.831	ng	99
34) Hexachlorobutadiene	10.875	225	888798	59.663	ng	99
35) Caprolactam	11.493	113	479740	61.656	ng	99
36) 4-Chloro-3-methylphenol	11.828	107	1552600	67.281	ng	98
37) 2-Methylnaphthalene	12.198	142	3425572	62.168	ng	99
38) 1-Methylnaphthalene	12.422	142	3338511	62.280	ng	99
40) 1,2,4,5-Tetrachloroben...	12.569	216	1692793	60.056	ng	99
41) Hexachlorocyclopentadiene	12.551	237	648687	61.847	ng	99
43) 2,4,6-Trichlorophenol	12.816	196	1119233	65.111	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024075.D
Acq On : 17 Feb 2025 15:33
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 18 02:04:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.893	196	1231522	65.508	ng	99
46) 1,1'-Biphenyl	13.216	154	4336048	60.827	ng	100
47) 2-Chloronaphthalene	13.257	162	3265887	60.605	ng	100
48) 2-Nitroaniline	13.463	65	887318	69.706	ng	96
49) Acenaphthylene	14.116	152	4993358	62.893	ng	99
50) Dimethylphthalate	13.851	163	4124435	63.737	ng	99
51) 2,6-Dinitrotoluene	13.969	165	884837	67.127	ng	97
52) Acenaphthene	14.463	154	3225226	63.082	ng	99
53) 3-Nitroaniline	14.304	138	986517	70.135	ng	97
54) 2,4-Dinitrophenol	14.510	184	514185	61.192	ng	94
55) Dibenzofuran	14.798	168	5127011	61.729	ng	100
56) 4-Nitrophenol	14.628	139	852660	70.176	ng	98
57) 2,4-Dinitrotoluene	14.763	165	1218167	71.140	ng	99
58) Fluorene	15.457	166	4185570	64.527	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.028	232	1092641	66.990	ng	99
60) Diethylphthalate	15.239	149	4157700	64.725	ng	99
61) 4-Chlorophenyl-phenyle...	15.457	204	2061004	64.553	ng	97
62) 4-Nitroaniline	15.486	138	1065073	62.865	ng	98
63) Azobenzene	15.751	77	3898240	64.761	ng	98
65) 4,6-Dinitro-2-methylph...	15.539	198	703007	60.225	ng	95
66) n-Nitrosodiphenylamine	15.675	169	3414829	62.009	ng	100
67) 4-Bromophenyl-phenylether	16.369	248	1241407	62.601	ng	98
68) Hexachlorobenzene	16.492	284	1441949	61.796	ng	97
69) Atrazine	16.651	200	813746	57.580	ng	99
70) Pentachlorophenol	16.845	266	1011899	66.770	ng	99
71) Phenanthrene	17.239	178	6099786	61.268	ng	99
72) Anthracene	17.333	178	6096285	63.897	ng	100
73) Carbazole	17.616	167	5866613	64.537	ng	99
74) Di-n-butylphthalate	18.210	149	7118459	67.112	ng	99
75) Fluoranthene	19.327	202	7166887	63.643	ng	99
77) Benzidine	19.522	184	828311	35.429	ng	99
78) Pyrene	19.704	202	7481316	61.389	ng	99
80) Butylbenzylphthalate	20.651	149	3221190	68.978	ng	97
81) Benzo(a)anthracene	21.627	228	7431691	61.773	ng	99
82) 3,3'-Dichlorobenzidine	21.551	252	2414479	64.226	ng	98
83) Chrysene	21.698	228	7112070	61.307	ng	99
84) Bis(2-ethylhexyl)phtha...	21.569	149	4837121	68.305	ng	99
85) Di-n-octyl phthalate	22.874	149	7543689	66.644	ng	98
87) Indeno(1,2,3-cd)pyrene	28.909	276	8636492m	64.038	ng	
88) Benzo(b)fluoranthene	23.974	252	7820714	64.996	ng	100
89) Benzo(k)fluoranthene	24.051	252	7468085	63.764	ng	99
90) Benzo(a)pyrene	24.880	252	6721503	65.822	ng	99
91) Dibenzo(a,h)anthracene	28.998	278	7291389	64.331	ng	99
92) Benzo(g,h,i)perylene	30.103	276	7318545	63.632	ng	98

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

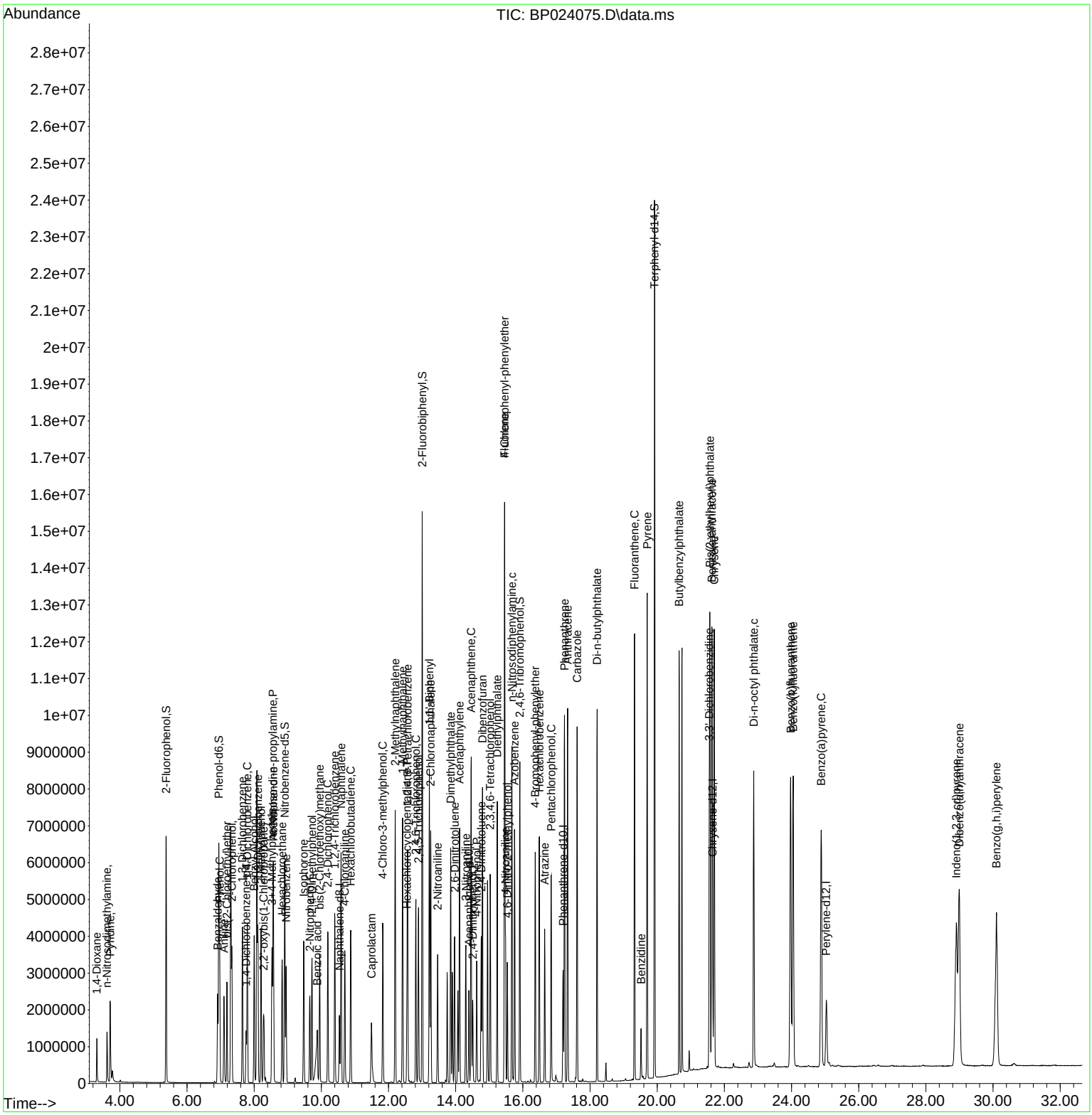
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024075.D
Acq On : 17 Feb 2025 15:33
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

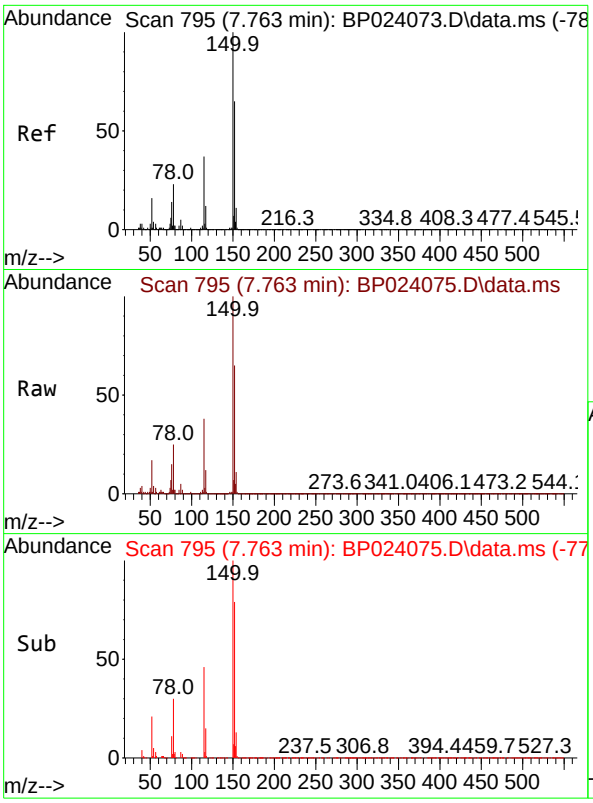
Quant Time: Feb 18 02:04:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

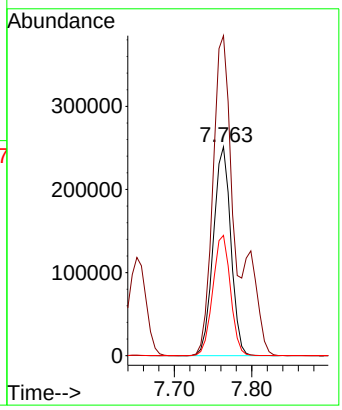




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:152 Resp: 39412

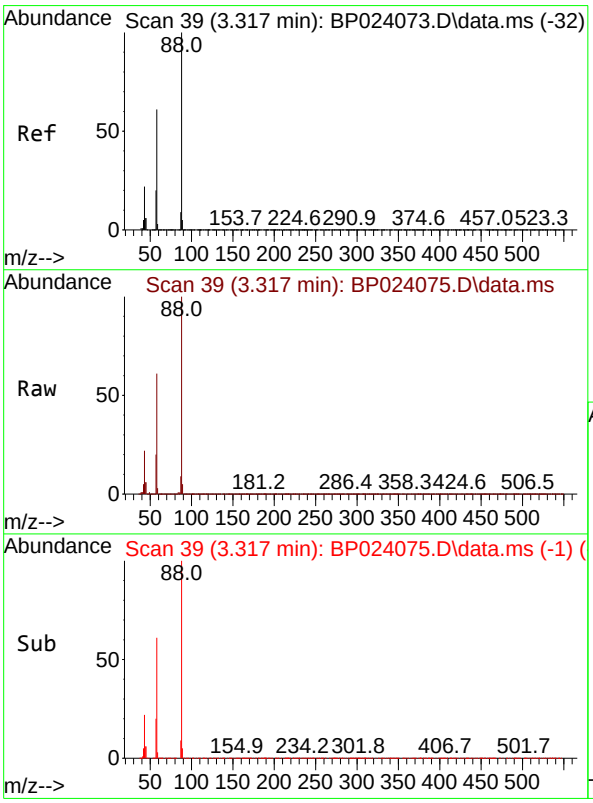
Ion	Ratio	Lower	Upper
152	100		
150	153.2	122.4	183.6
115	57.6	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

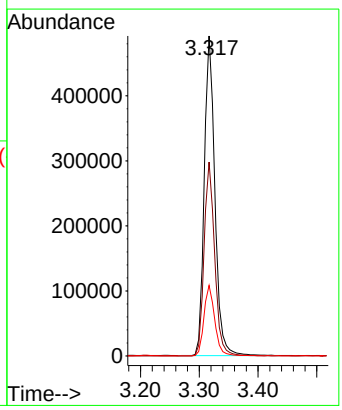
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

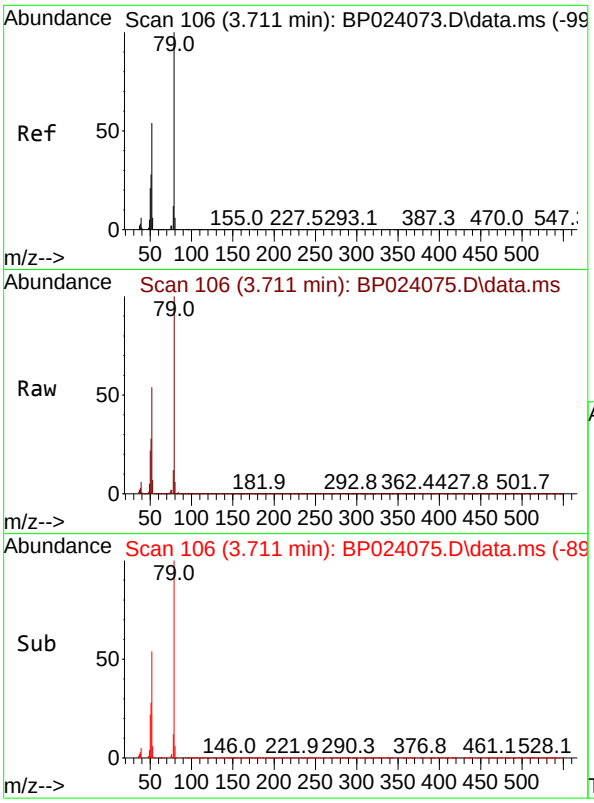


#2
1,4-Dioxane
Concen: 62.435 ng
RT: 3.317 min Scan# 39
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 88 Resp: 618638

Ion	Ratio	Lower	Upper
88	100		
58	60.8	49.1	73.7
43	22.4	18.0	27.0

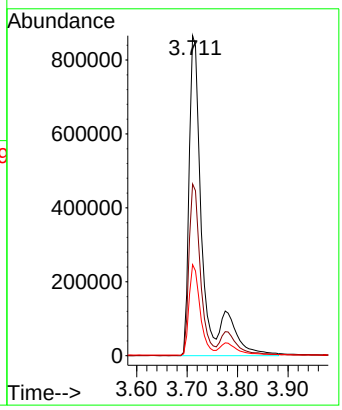




#3
Pyridine
Concen: 63.795 ng m
RT: 3.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 79 Resp: 164516

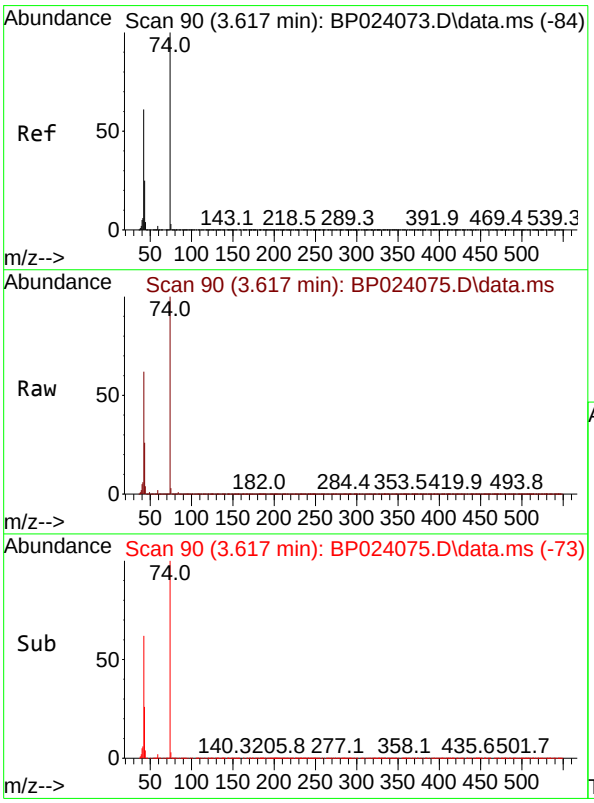
Ion	Ratio	Lower	Upper
79	100		
52	53.7	43.5	65.3
51	28.5	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

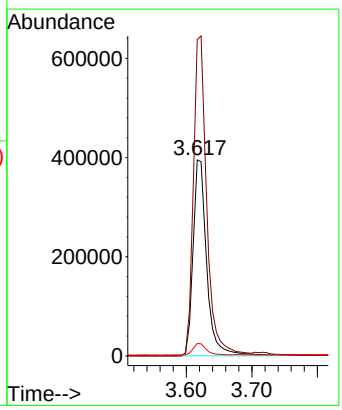
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

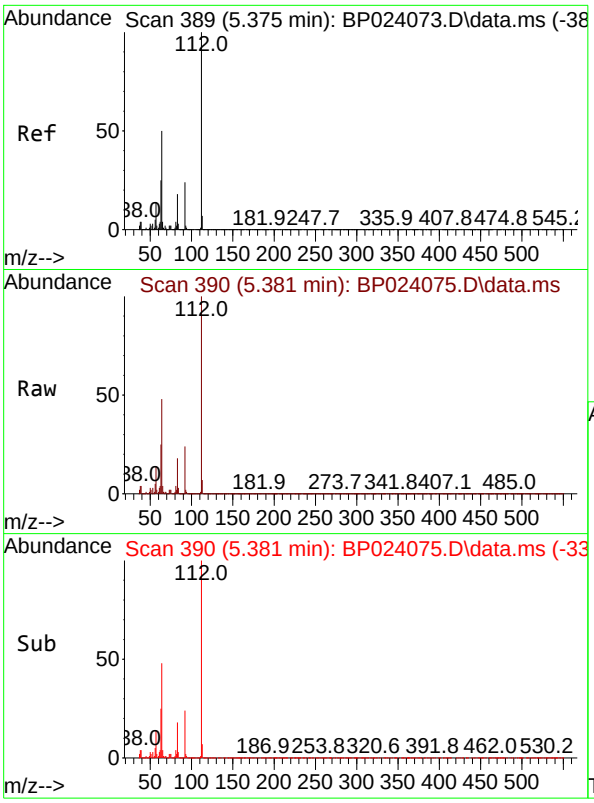


#4
n-Nitrosodimethylamine
Concen: 62.702 ng
RT: 3.617 min Scan# 90
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 42 Resp: 572966

Ion	Ratio	Lower	Upper
42	100		
74	161.5	132.0	198.0
44	6.4	5.3	7.9

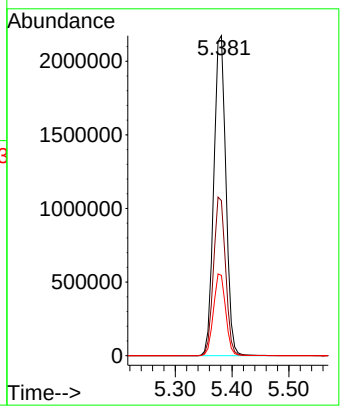




#5
2-Fluorophenol
Concen: 126.670 ng
RT: 5.381 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:112 Resp: 319951

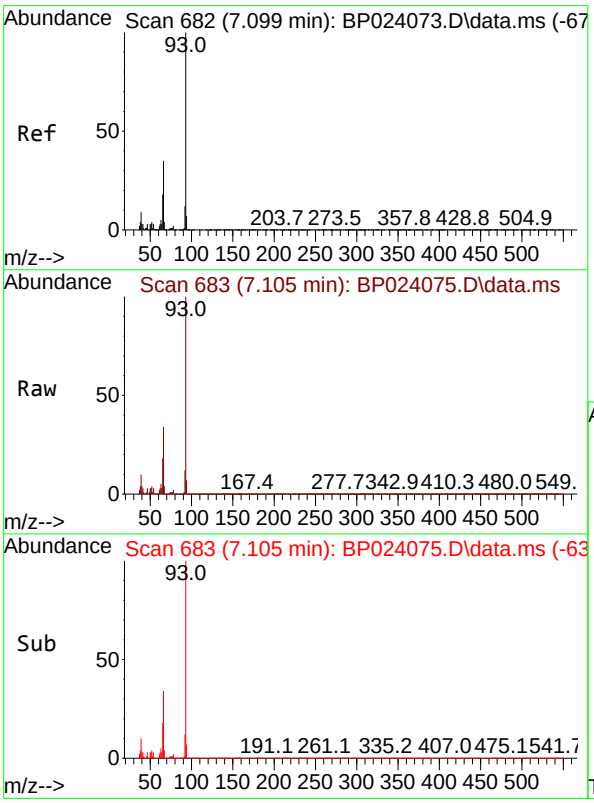
Ion	Ratio	Lower	Upper
112	100		
64	48.4	39.6	59.4
63	25.1	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

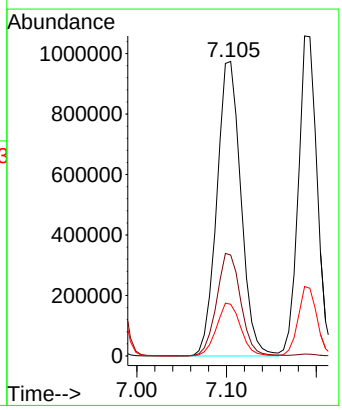
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

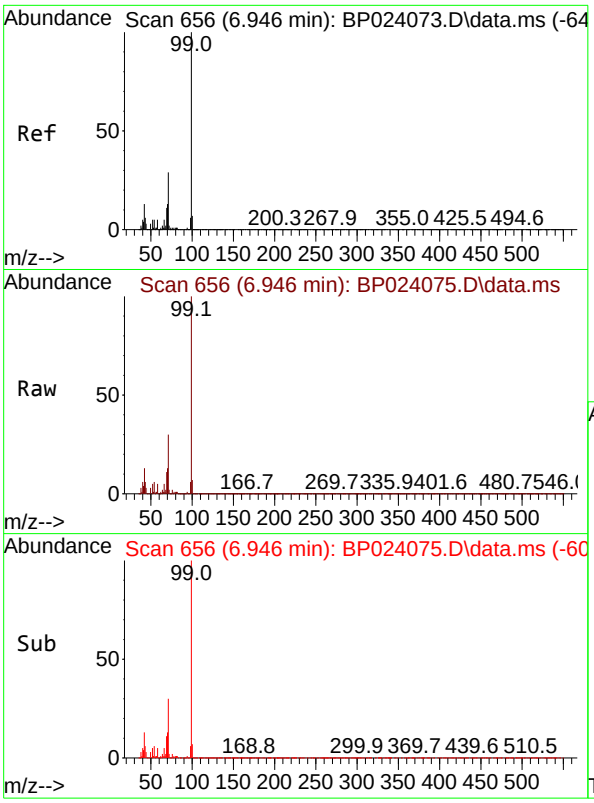


#6
Aniline
Concen: 61.121 ng
RT: 7.105 min Scan# 683
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 93 Resp: 1817148

Ion	Ratio	Lower	Upper
93	100		
66	34.3	28.2	42.4
65	17.5	14.1	21.1

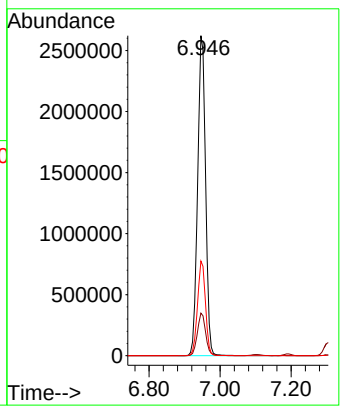




#7
Phenol-d6
Concen: 125.848 ng
RT: 6.946 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 99 Resp: 408553

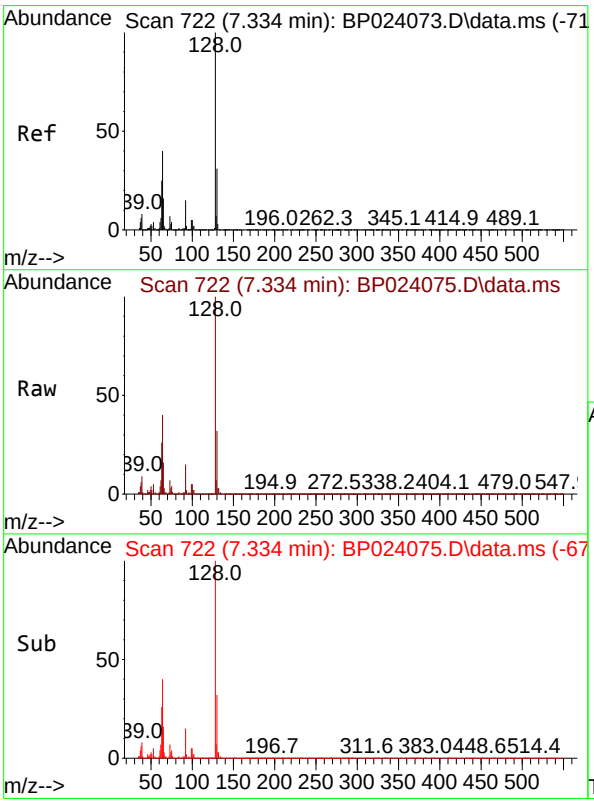
Ion	Ratio	Lower	Upper
99	100		
42	13.3	10.3	15.5
71	29.6	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

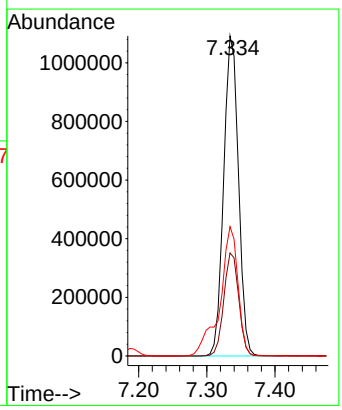
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

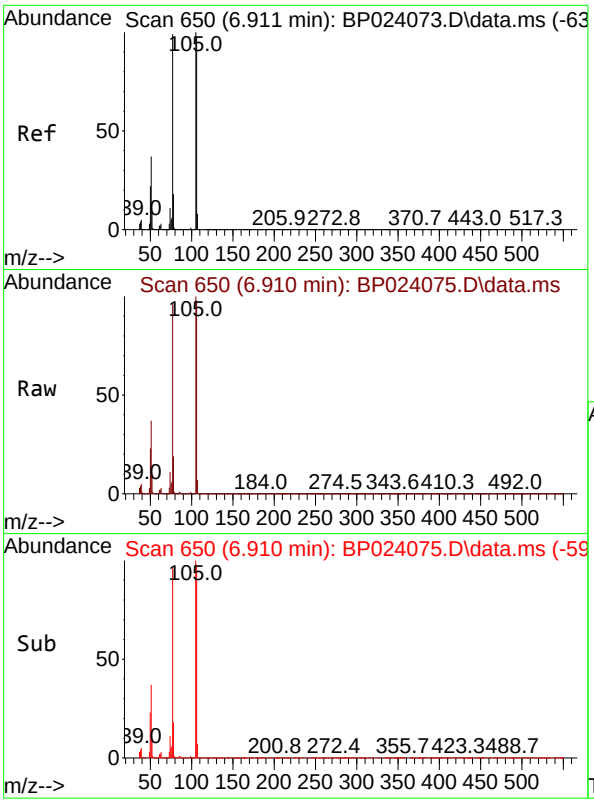


#8
2-Chlorophenol
Concen: 61.757 ng
RT: 7.334 min Scan# 722
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:128 Resp: 1651047

Ion	Ratio	Lower	Upper
128	100		
130	32.2	11.5	51.5
64	40.4	19.8	59.8

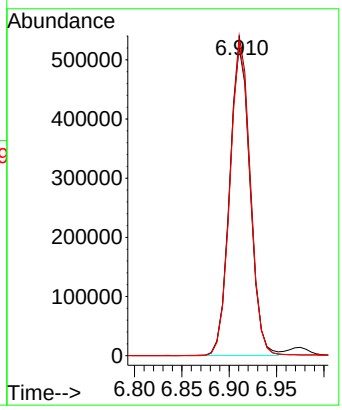




#9
Benzaldehyde
Concen: 53.067 ng
RT: 6.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 77 Resp: 78654

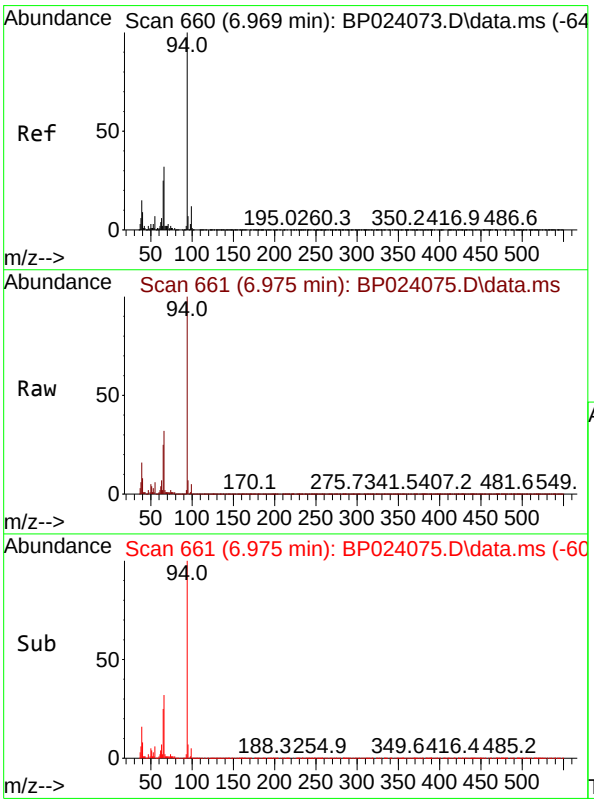
Ion	Ratio	Lower	Upper
77	100		
105	103.7	81.4	121.4
106	101.5	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

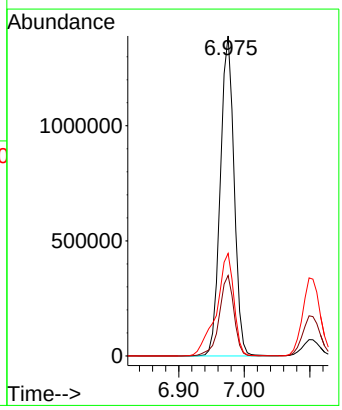
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

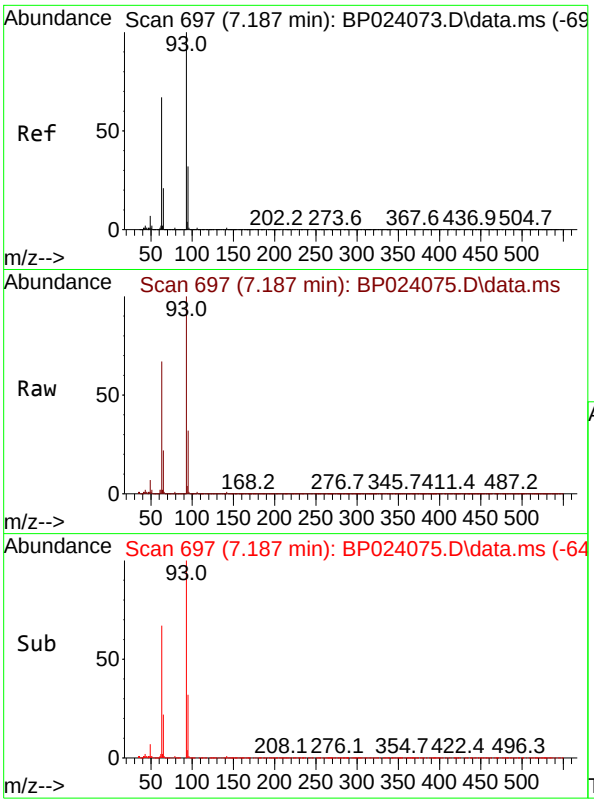


#10
Phenol
Concen: 61.864 ng
RT: 6.975 min Scan# 661
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 94 Resp: 2019553

Ion	Ratio	Lower	Upper
94	100		
65	25.1	5.0	45.0
66	32.0	11.6	51.6

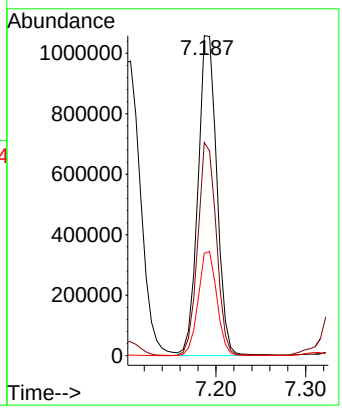




#11
bis(2-Chloroethyl)ether
Concen: 60.022 ng
RT: 7.187 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 93 Resp: 154329

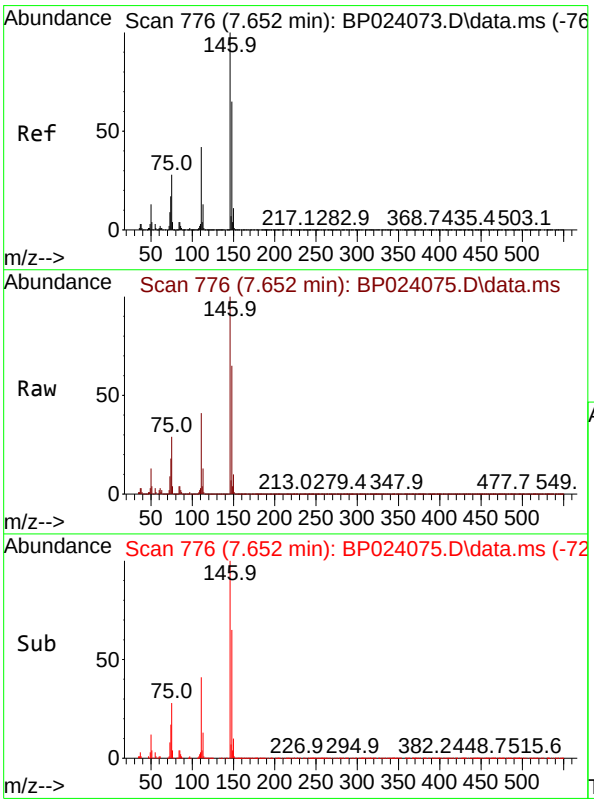
Ion	Ratio	Lower	Upper
93	100		
63	66.6	46.5	86.5
95	32.0	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

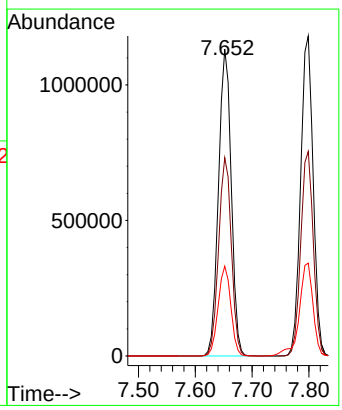
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

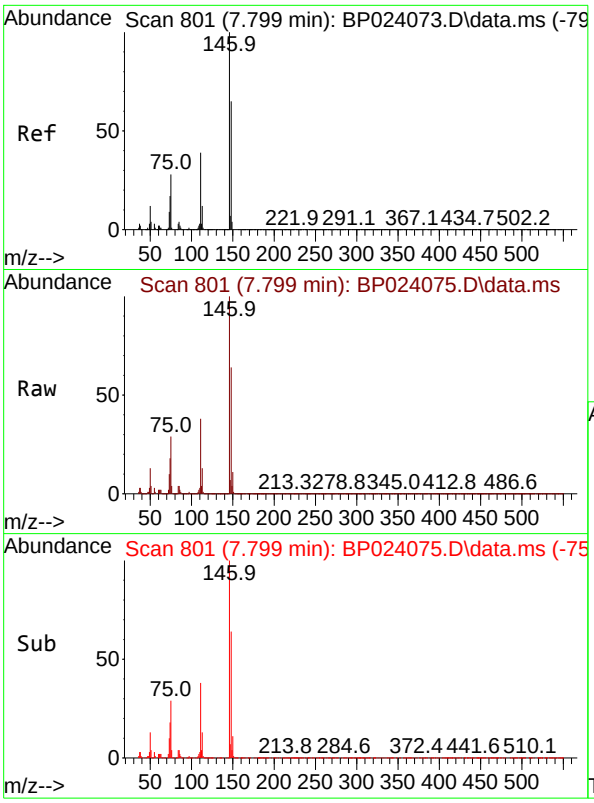


#12
1,3-Dichlorobenzene
Concen: 60.082 ng
RT: 7.652 min Scan# 776
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:146 Resp: 1764626

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.8	77.8
75	29.2	22.6	33.8

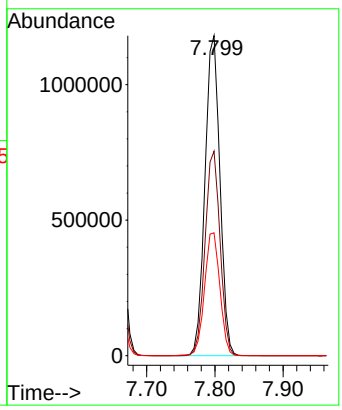




#13
1,4-Dichlorobenzene
Concen: 60.689 ng
RT: 7.799 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:146 Resp: 180259

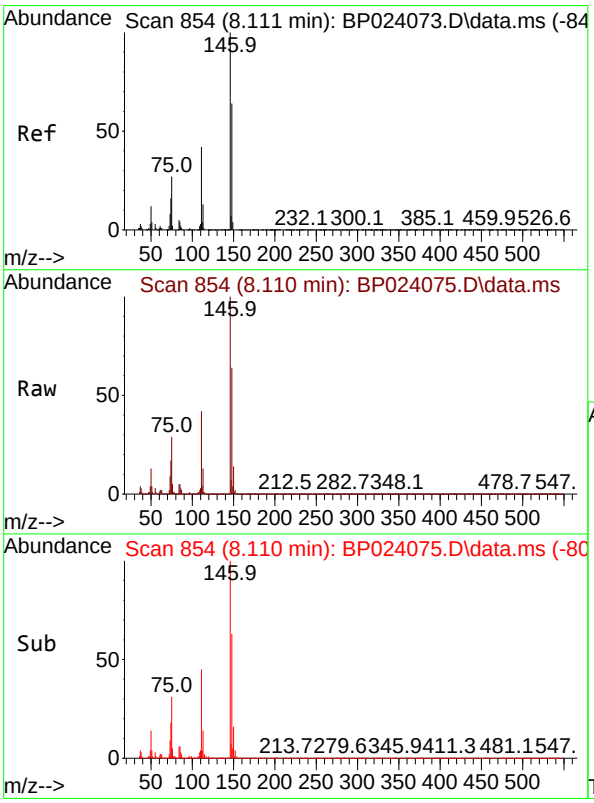
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.6	77.4
111	38.4	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

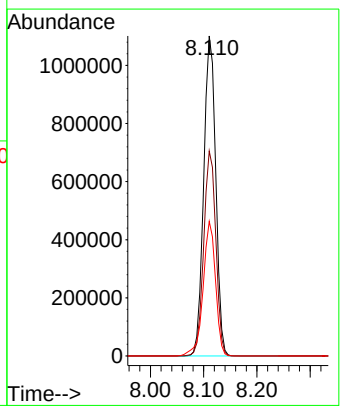
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

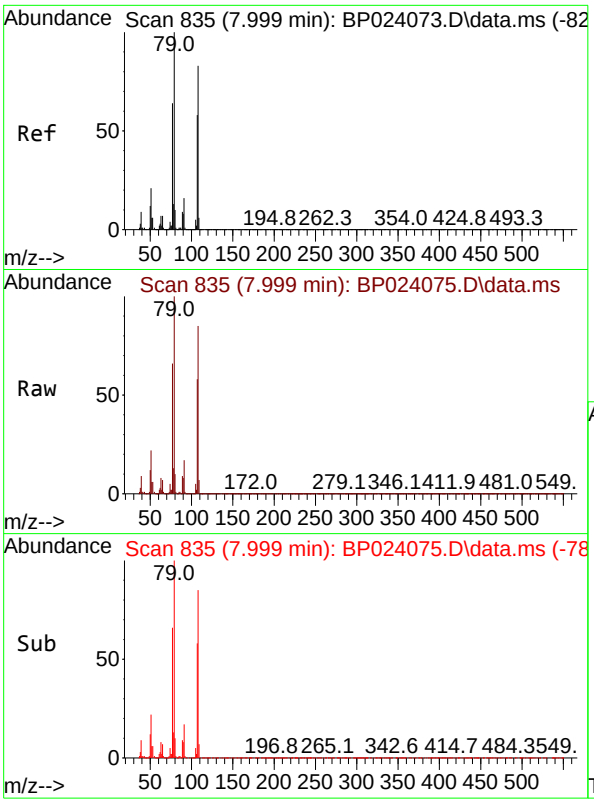


#14
1,2-Dichlorobenzene
Concen: 60.534 ng
RT: 8.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:146 Resp: 1725547

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.2	76.8
111	42.0	33.4	50.0

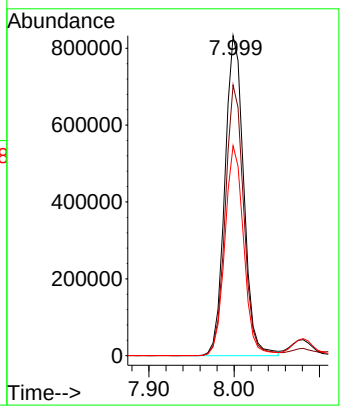




#15
Benzyl Alcohol
Concen: 64.364 ng
RT: 7.999 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 79 Resp: 127902

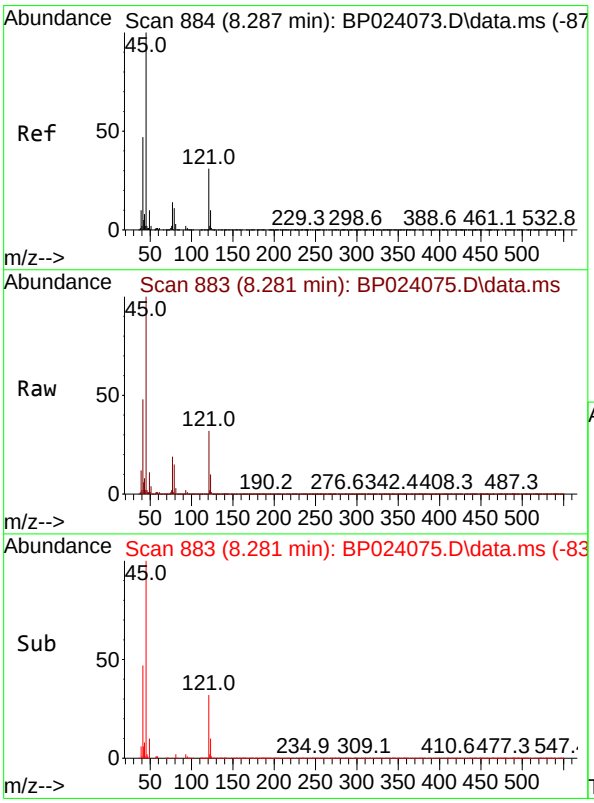
Ion	Ratio	Lower	Upper
79	100		
108	84.6	66.4	99.6
77	65.6	51.3	76.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

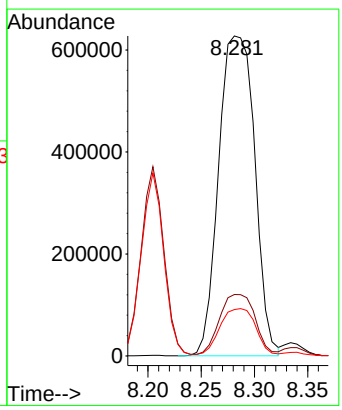
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

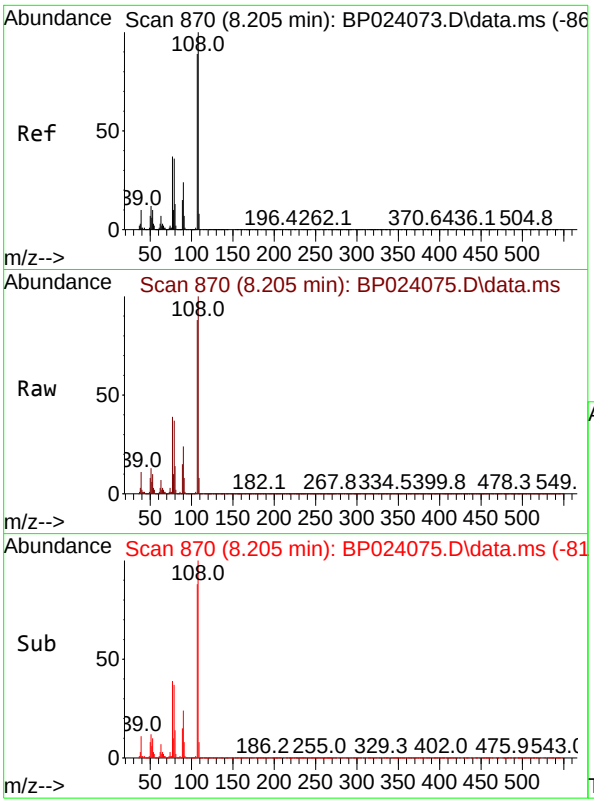


#16
2,2'-oxybis(1-Chloropropane)
Concen: 59.106 ng
RT: 8.281 min Scan# 883
Delta R.T. -0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 45 Resp: 1475268

Ion	Ratio	Lower	Upper
45	100		
77	19.2	0.0	38.8
79	14.5	0.0	35.4

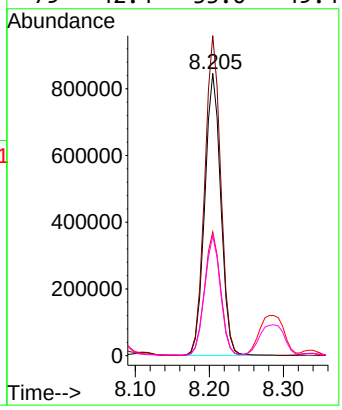




#17
2-Methylphenol
Concen: 63.751 ng
RT: 8.205 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:107 Resp: 126824

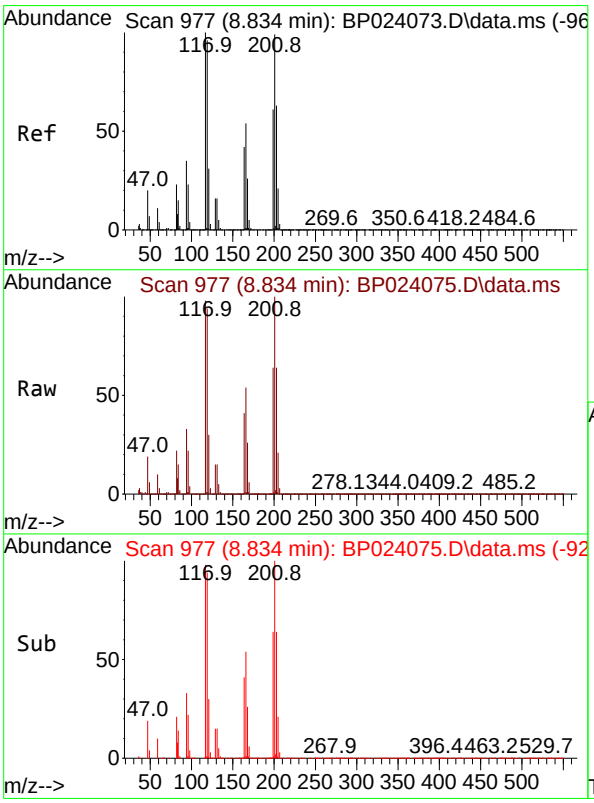
Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.0	135.0
77	43.9	33.8	50.6
79	42.4	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

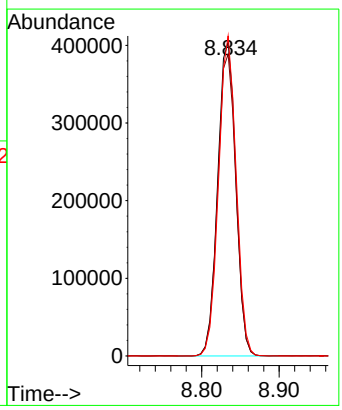
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

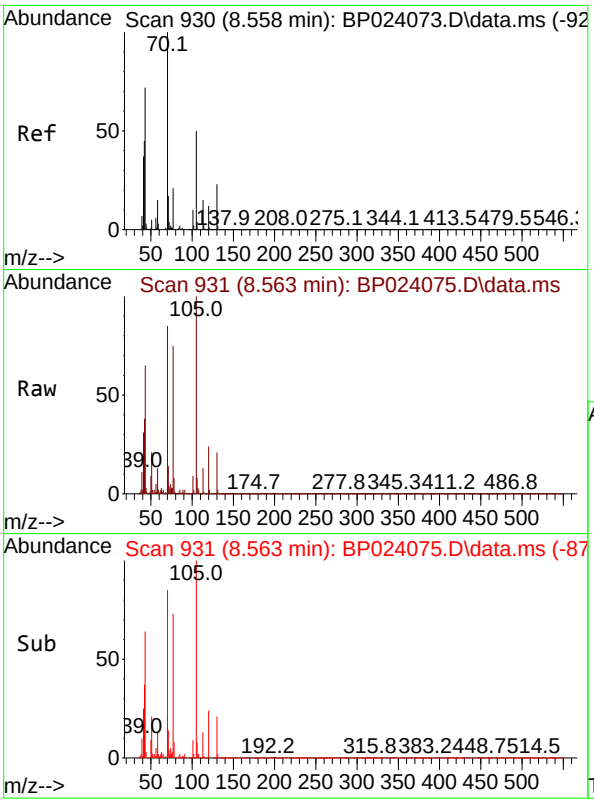


#18
Hexachloroethane
Concen: 61.447 ng
RT: 8.834 min Scan# 977
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:117 Resp: 657288

Ion	Ratio	Lower	Upper
117	100		
119	96.3	76.9	115.3
201	102.0	79.4	119.2

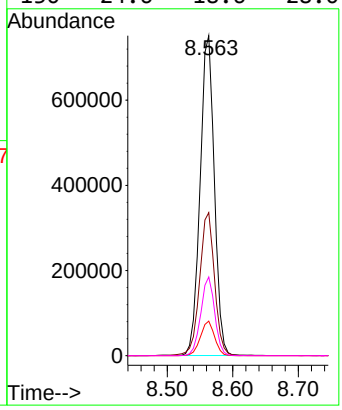




#19
n-Nitroso-di-n-propylamine
Concen: 65.139 ng
RT: 8.563 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 70 Resp: 113699

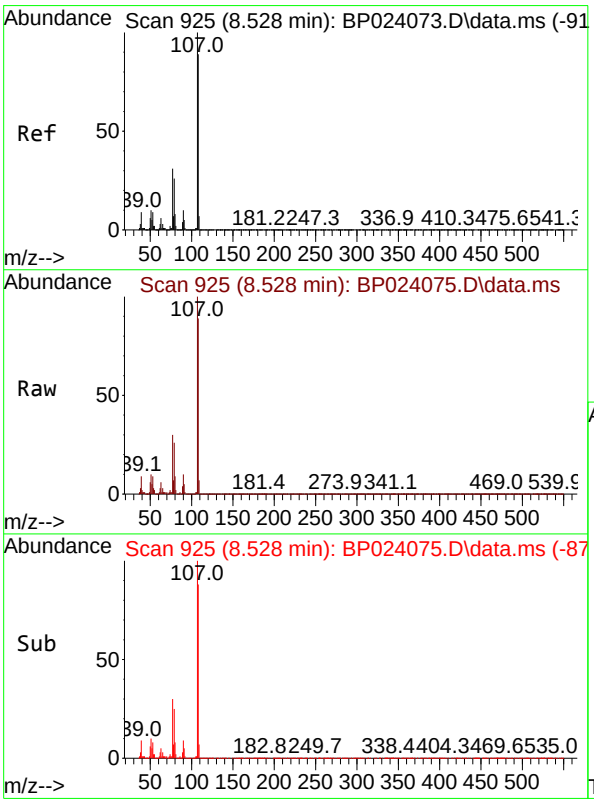
Ion	Ratio	Lower	Upper
70	100		
42	44.7	36.6	54.8
101	10.8	8.2	12.2
130	24.6	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

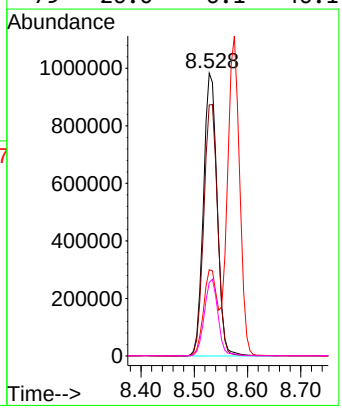
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

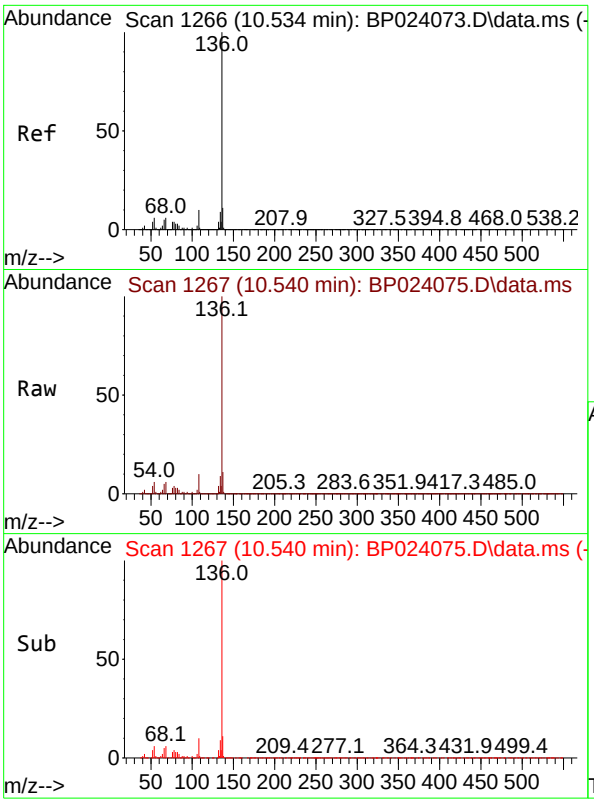


#20
3+4-Methylphenols
Concen: 64.818 ng
RT: 8.528 min Scan# 925
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:107 Resp: 1754170

Ion	Ratio	Lower	Upper
107	100		
108	88.7	68.5	108.5
77	30.5	10.7	50.7
79	26.0	6.1	46.1

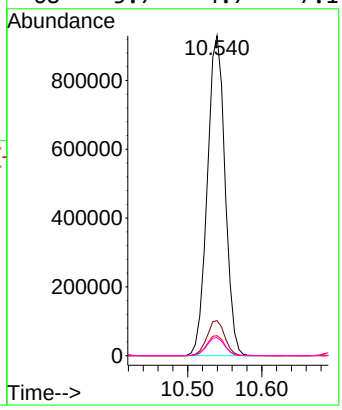




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:136 Resp: 154183

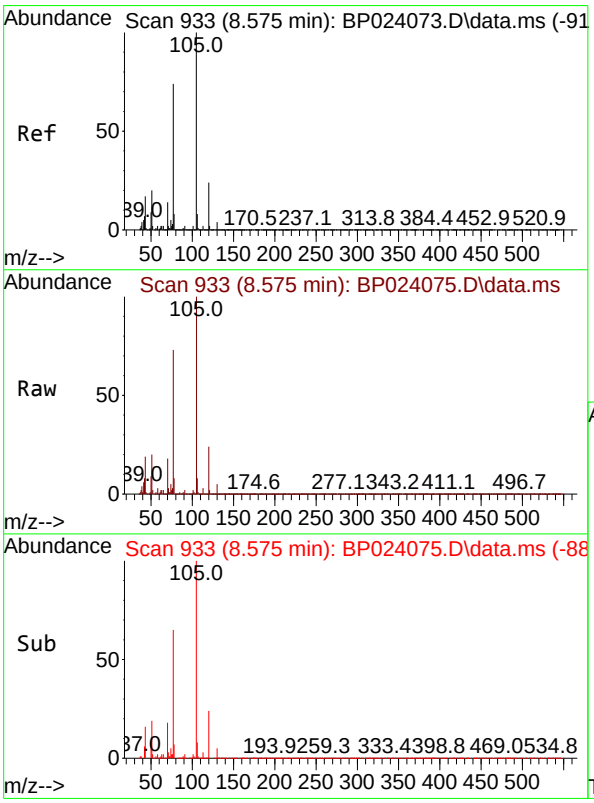
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	6.3	4.9	7.3
68	5.7	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

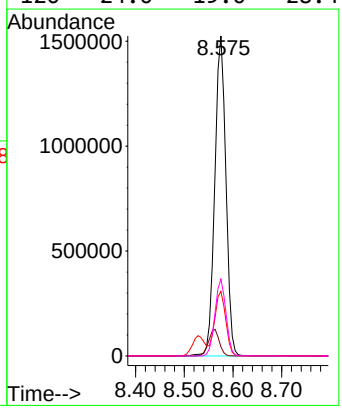
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

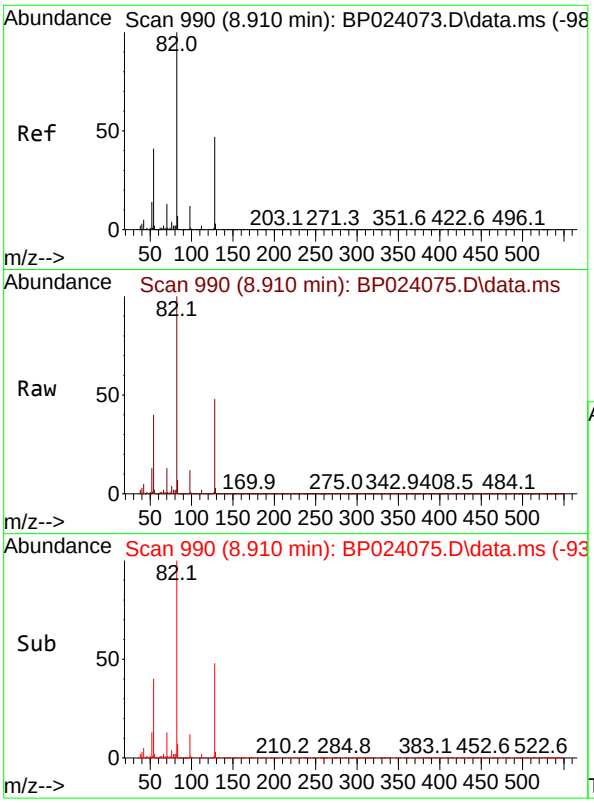


#22
Acetophenone
Concen: 61.045 ng
RT: 8.575 min Scan# 933
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:105 Resp: 2418660

Ion	Ratio	Lower	Upper
105	100		
71	2.9	1.9	2.9
51	20.1	16.3	24.5
120	24.0	19.0	28.4

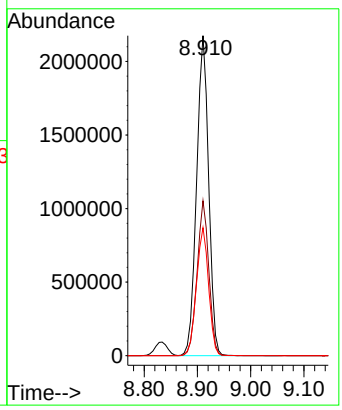




#23
Nitrobenzene-d5
Concen: 123.286 ng
RT: 8.910 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 82 Resp: 340724

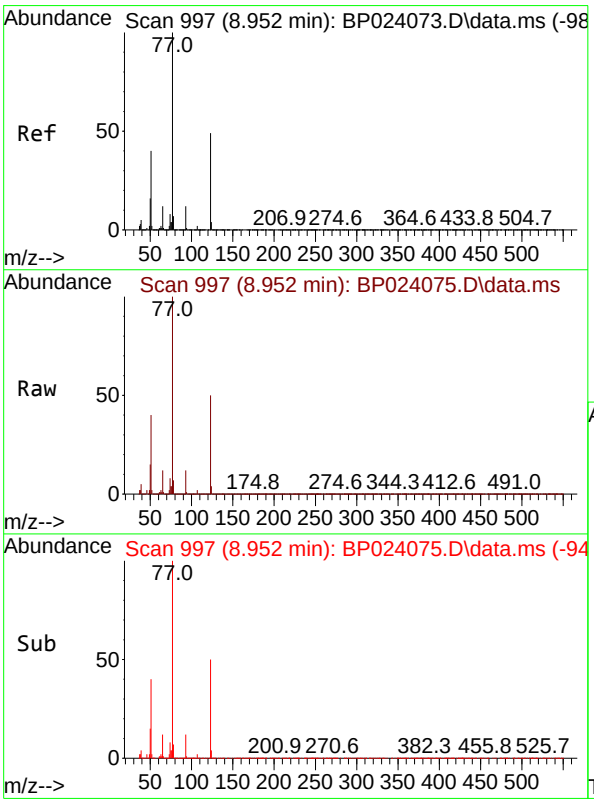
Ion	Ratio	Lower	Upper
82	100		
128	48.4	37.4	56.2
54	40.0	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

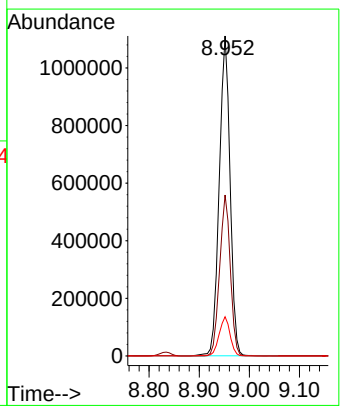
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

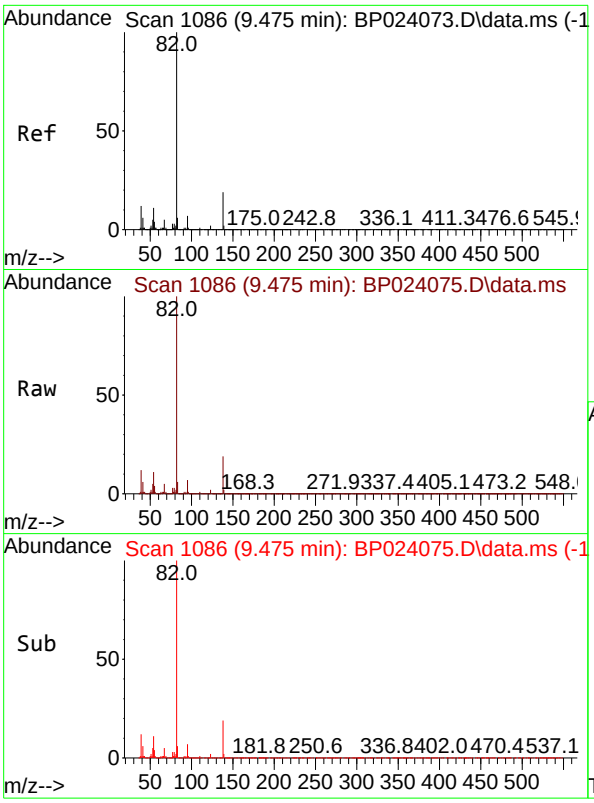


#24
Nitrobenzene
Concen: 61.325 ng
RT: 8.952 min Scan# 997
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 77 Resp: 1667986

Ion	Ratio	Lower	Upper
77	100		
123	50.3	39.4	59.2
65	12.3	9.9	14.9

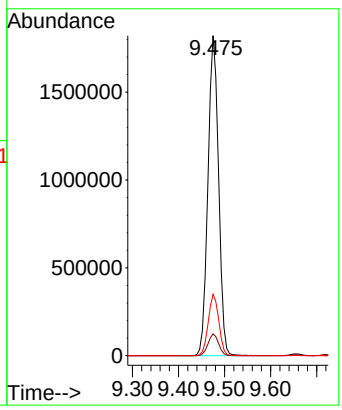




#25
Isophorone
Concen: 64.792 ng
RT: 9.475 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 82 Resp: 292824

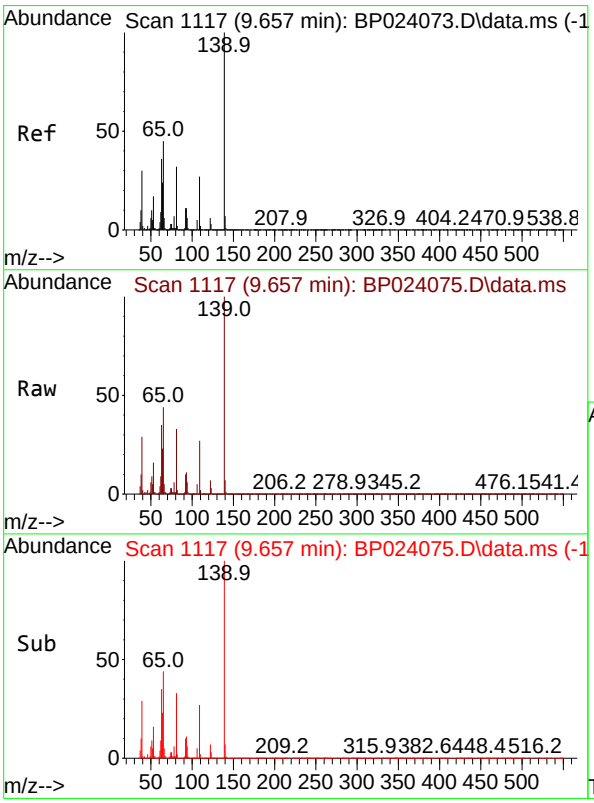
Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.4	8.0
138	19.2	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

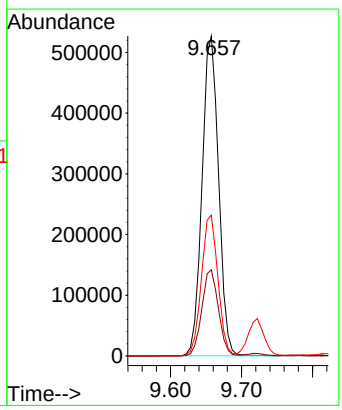
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

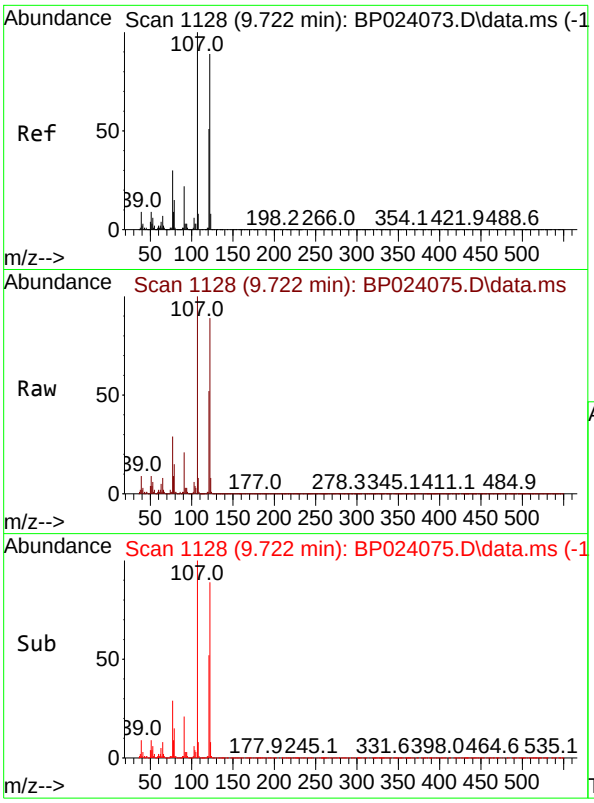


#26
2-Nitrophenol
Concen: 67.996 ng
RT: 9.657 min Scan# 1117
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:139 Resp: 852054

Ion	Ratio	Lower	Upper
139	100		
109	26.9	21.7	32.5
65	44.0	36.1	54.1

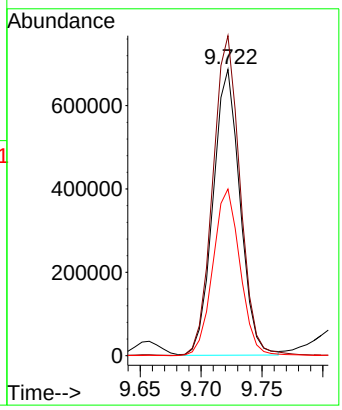




#27
2,4-Dimethylphenol
Concen: 64.324 ng
RT: 9.722 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:122 Resp: 105806

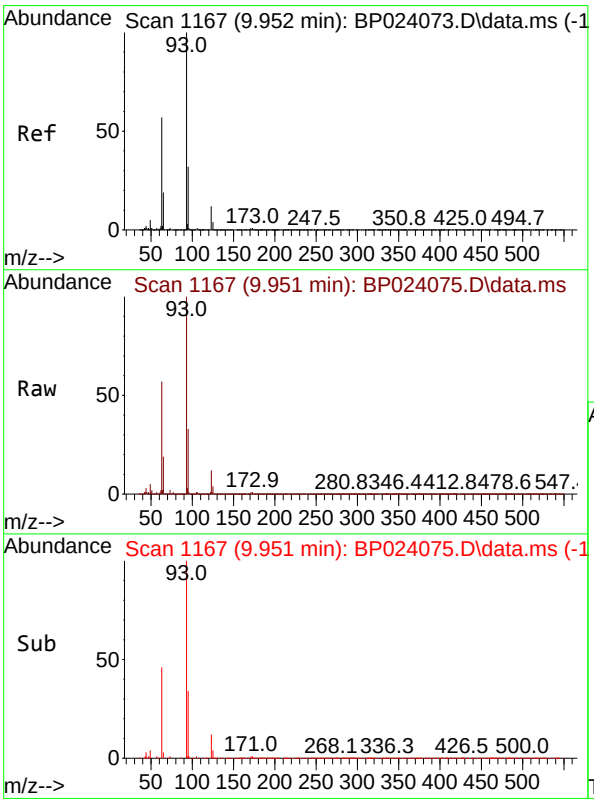
Ion	Ratio	Lower	Upper
122	100		
107	111.8	89.8	134.8
121	58.2	45.9	68.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

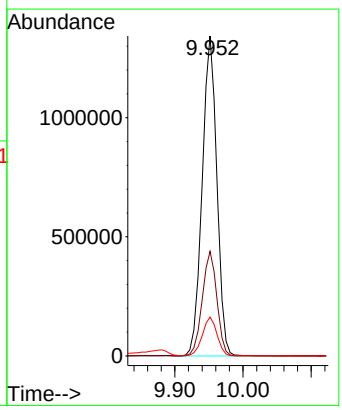
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

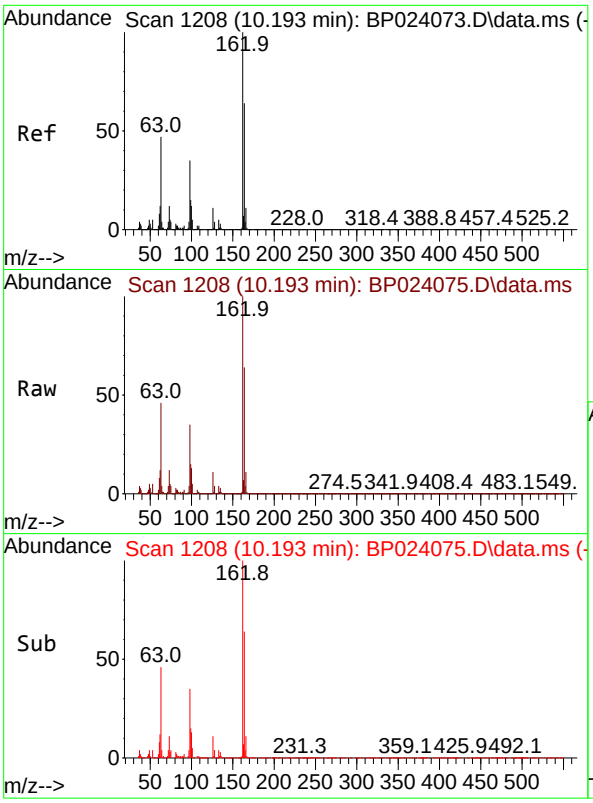


#28
bis(2-Chloroethoxy)methane
Concen: 61.289 ng
RT: 9.951 min Scan# 1167
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 93 Resp: 2006585

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.9	38.9
123	12.2	9.7	14.5

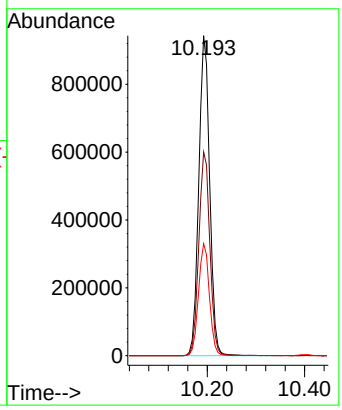




#29
2,4-Dichlorophenol
Concen: 65.290 ng
RT: 10.193 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:162 Resp: 146560

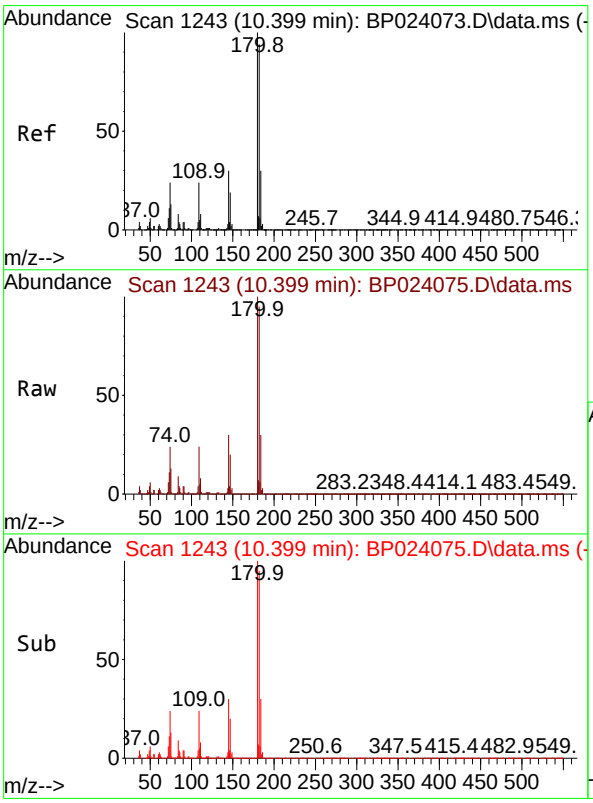
Ion	Ratio	Lower	Upper
162	100		
164	63.6	44.5	84.5
98	35.0	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

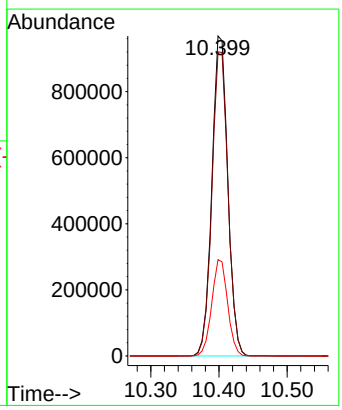
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

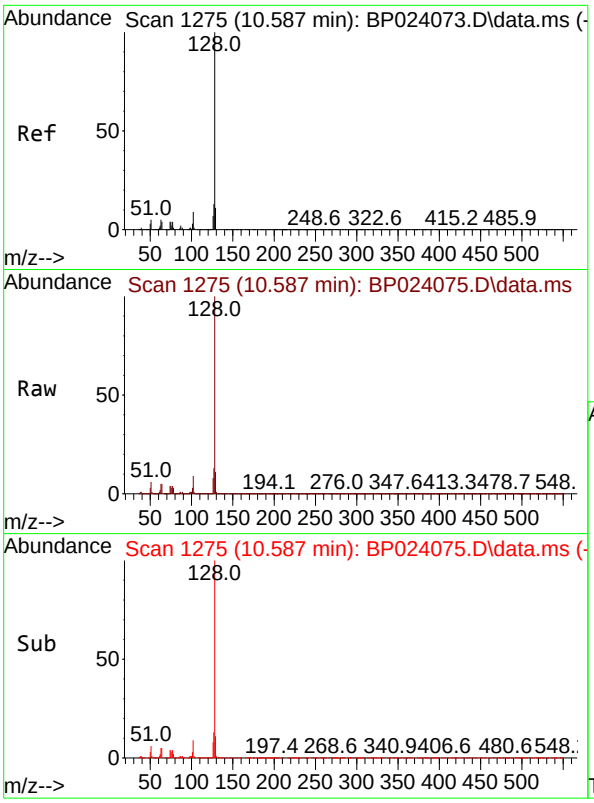


#30
1,2,4-Trichlorobenzene
Concen: 61.098 ng
RT: 10.399 min Scan# 1243
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:180 Resp: 1571391

Ion	Ratio	Lower	Upper
180	100		
182	95.0	75.4	113.2
145	30.1	24.0	36.0

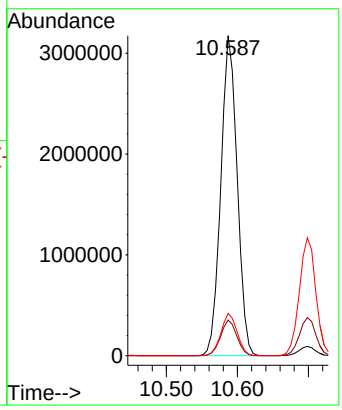




#31
Naphthalene
Concen: 60.977 ng
RT: 10.587 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:128 Resp: 505518

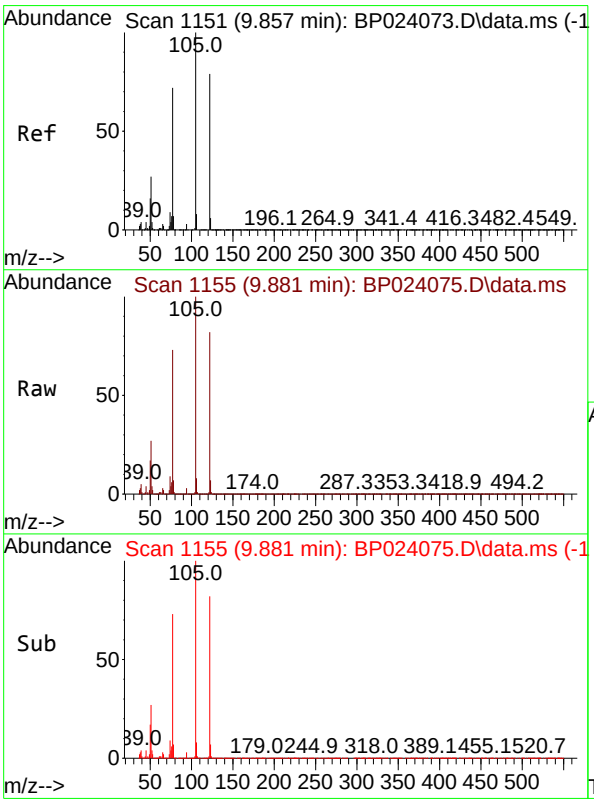
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	13.0
127	13.2	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

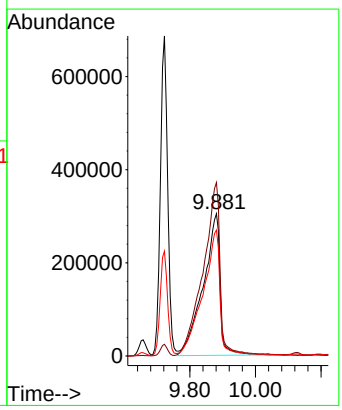
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

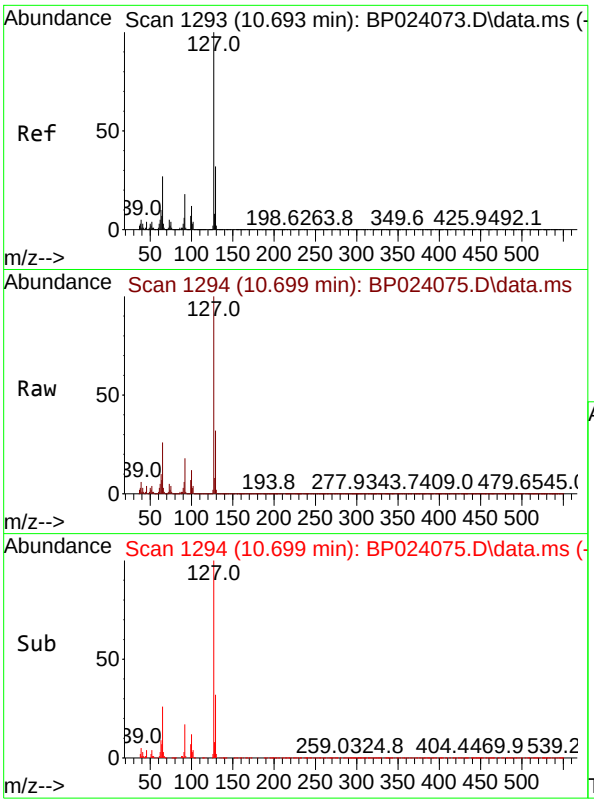


#32
Benzoic acid
Concen: 61.182 ng
RT: 9.881 min Scan# 1155
Delta R.T. 0.024 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:122 Resp: 1097982

Ion	Ratio	Lower	Upper
122	100		
105	122.0	103.7	143.7
77	88.5	69.9	109.9

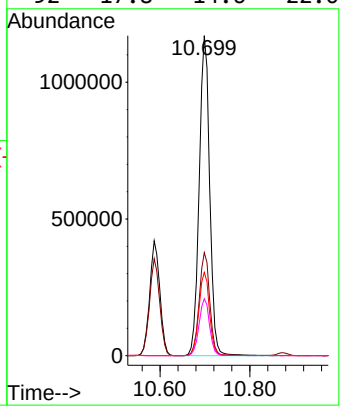




#33
4-Chloroaniline
Concen: 64.831 ng
RT: 10.699 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:127 Resp: 189346

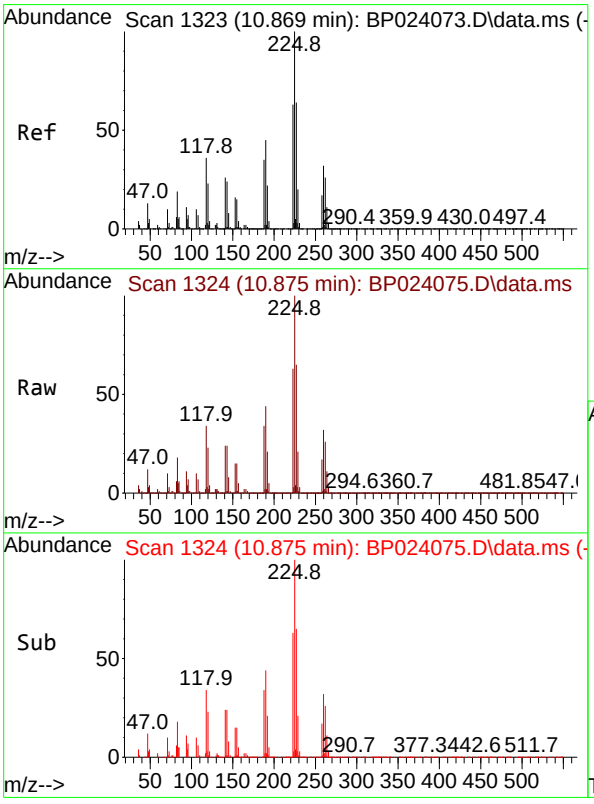
Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.4	38.0
65	26.0	21.3	31.9
92	17.8	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

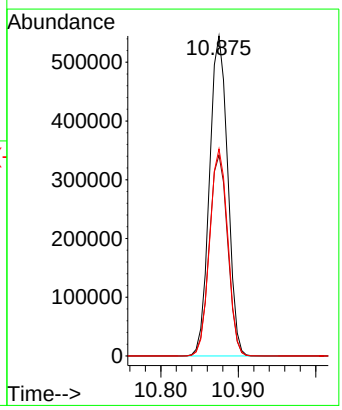
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

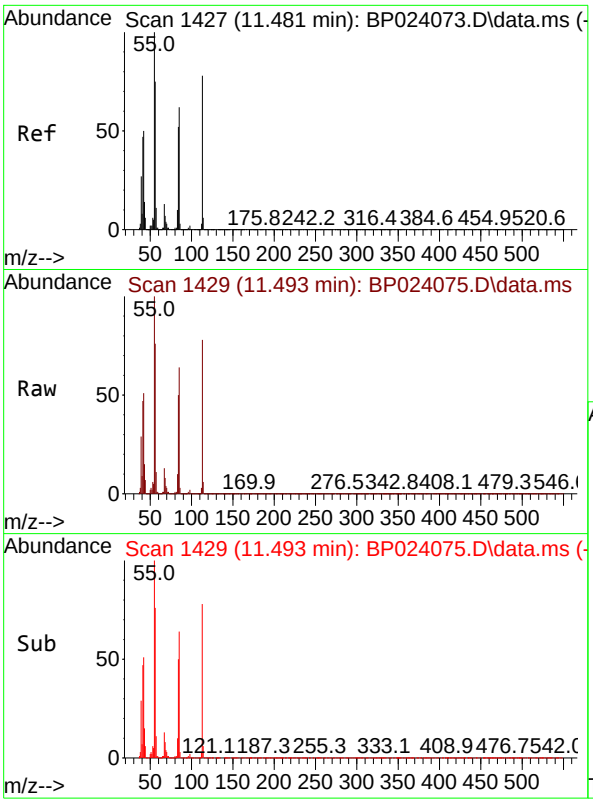


#34
Hexachlorobutadiene
Concen: 59.663 ng
RT: 10.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:225 Resp: 888798

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.5	75.7
227	64.7	51.3	76.9

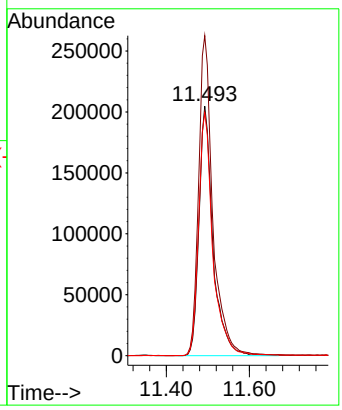




#35
Caprolactam
Concen: 61.656 ng
RT: 11.493 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:113 Resp: 47974(

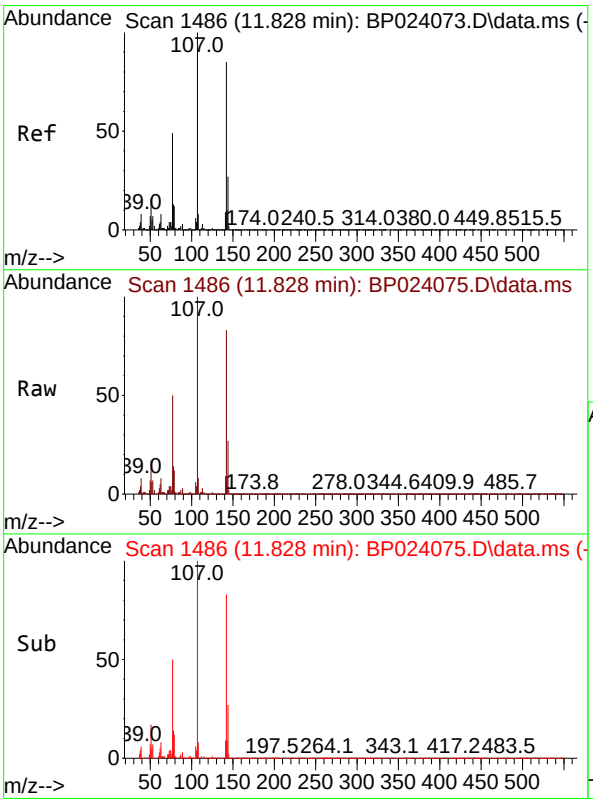
Ion	Ratio	Lower	Upper
113	100		
55	128.3	108.8	148.8
56	97.5	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

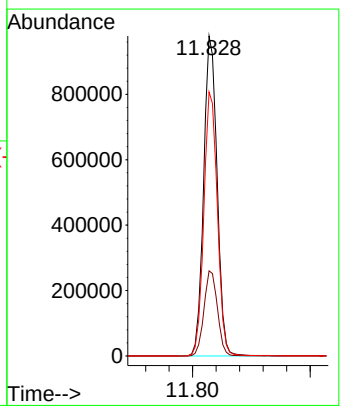
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

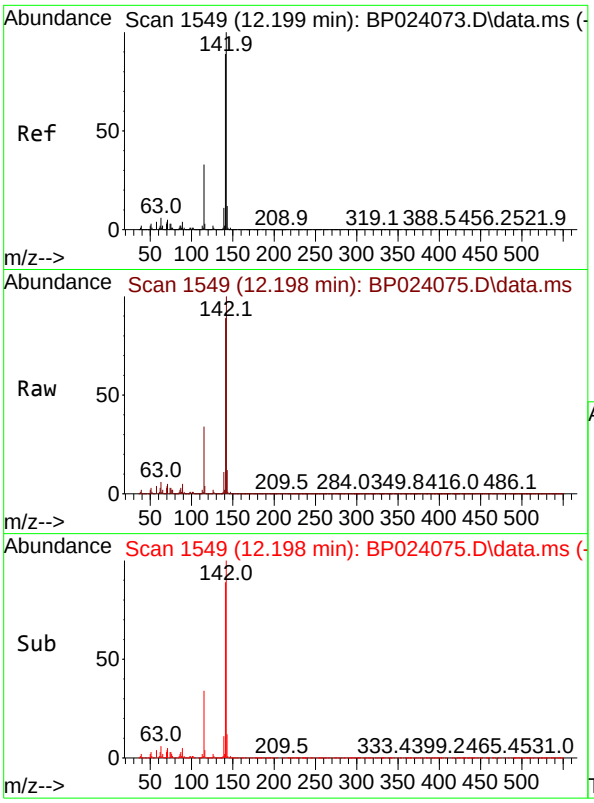


#36
4-Chloro-3-methylphenol
Concen: 67.281 ng
RT: 11.828 min Scan# 1486
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:107 Resp: 1552600

Ion	Ratio	Lower	Upper
107	100		
144	26.6	21.8	32.8
142	82.5	67.8	101.8

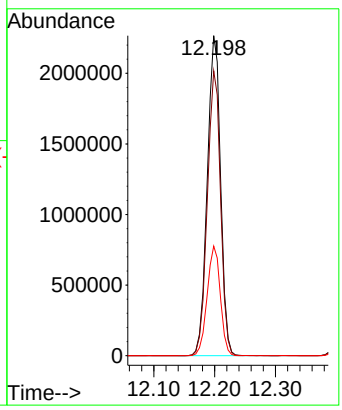




#37
2-Methylnaphthalene
Concen: 62.168 ng
RT: 12.198 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:142 Resp: 342557

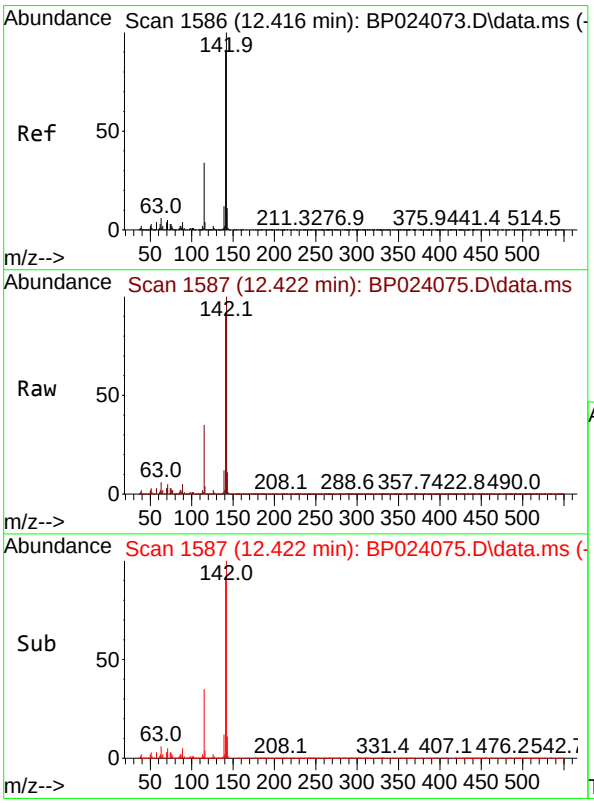
Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
115	34.2	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

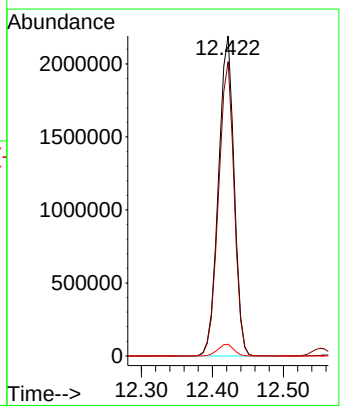
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

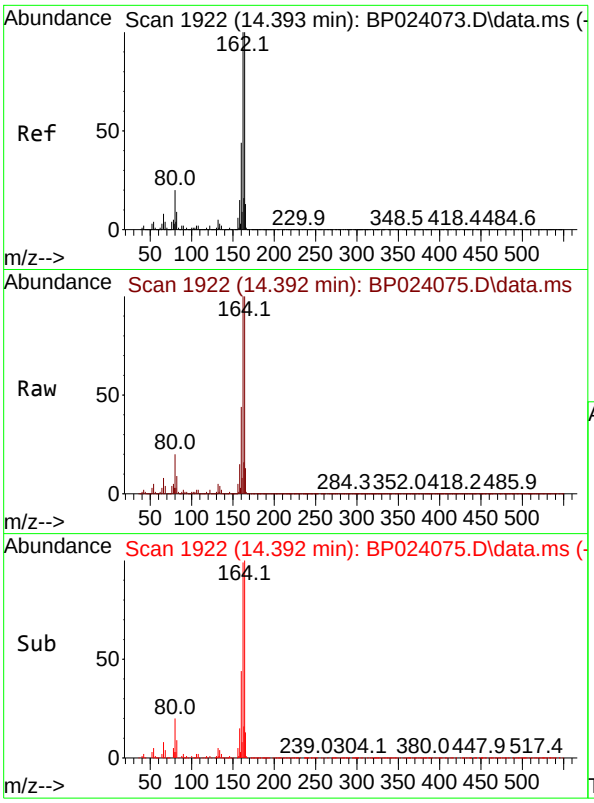


#38
1-Methylnaphthalene
Concen: 62.280 ng
RT: 12.422 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:142 Resp: 3338511

Ion	Ratio	Lower	Upper
142	100		
141	92.0	73.0	109.6
116	3.7	2.8	4.2

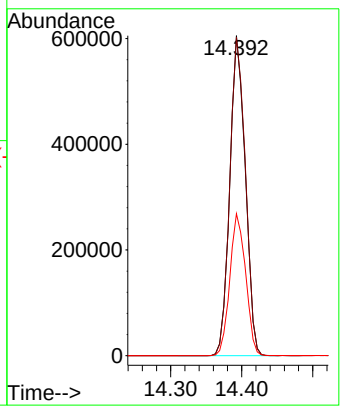




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:164 Resp: 91737

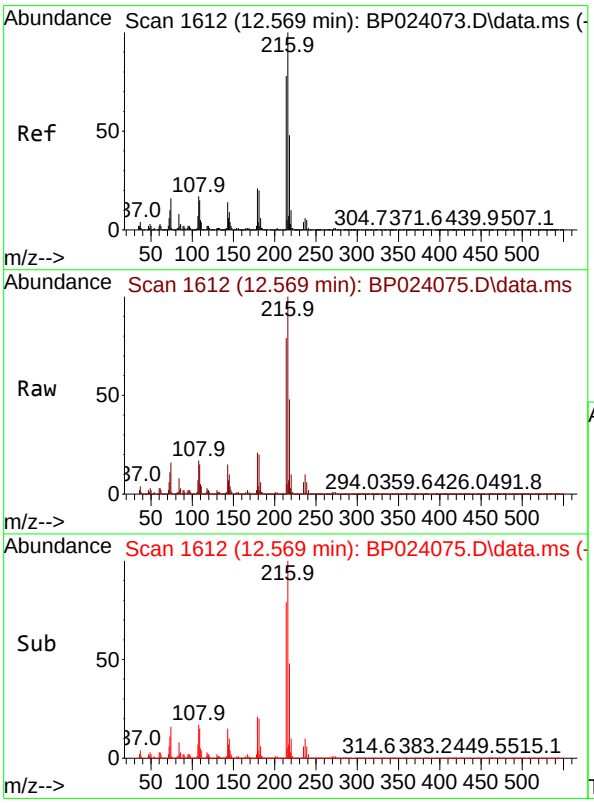
Ion	Ratio	Lower	Upper
164	100		
162	99.5	80.1	120.1
160	44.3	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

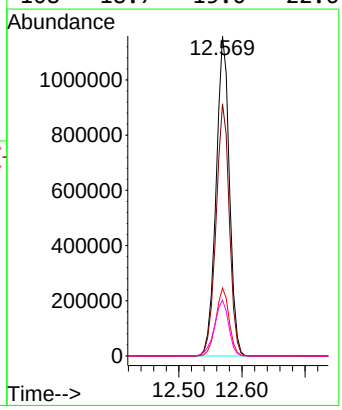
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

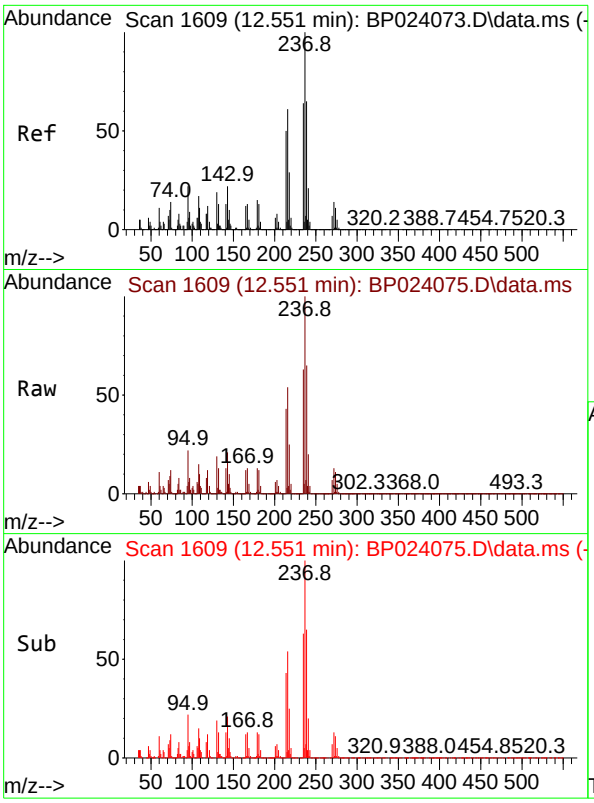


#40
1,2,4,5-Tetrachlorobenzene
Concen: 60.056 ng
RT: 12.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:216 Resp: 1692793

Ion	Ratio	Lower	Upper
216	100		
214	78.9	62.7	94.1
179	21.1	16.6	25.0
108	18.7	15.0	22.6

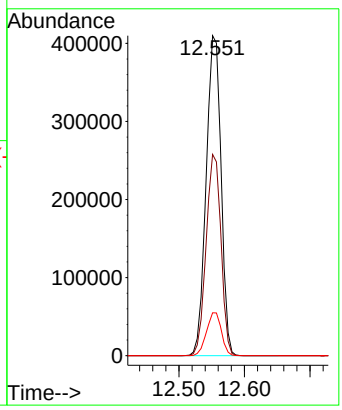




#41
Hexachlorocyclopentadiene
Concen: 61.847 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:237 Resp: 64868

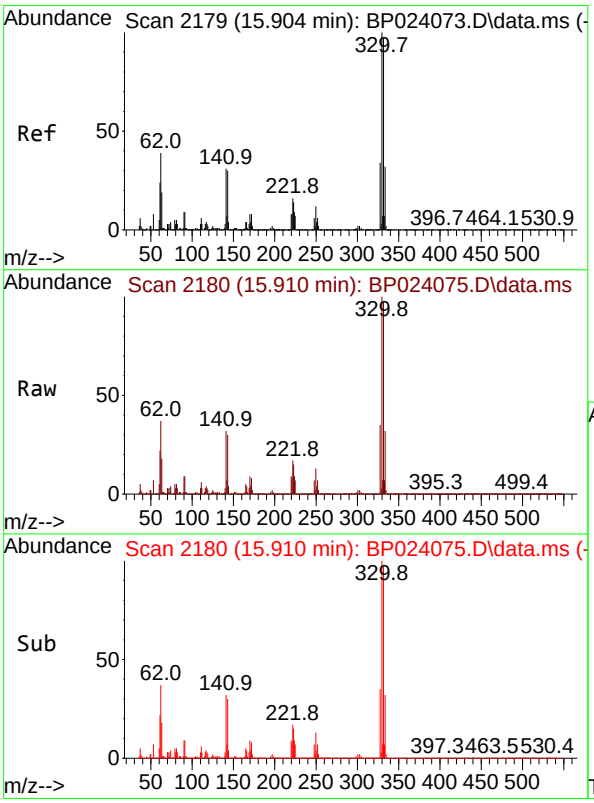
Ion	Ratio	Lower	Upper
237	100		
235	62.9	43.5	83.5
272	13.4	0.0	33.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

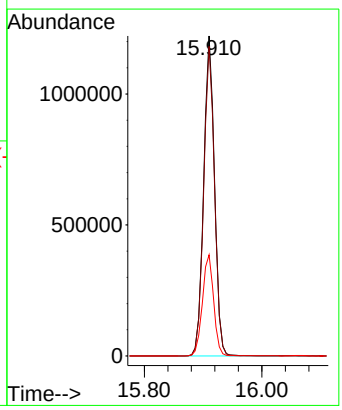
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

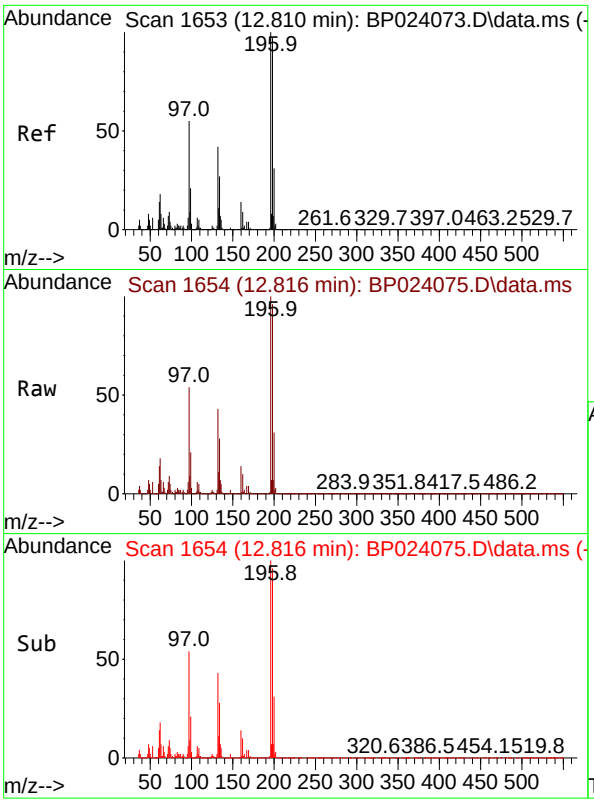


#42
2,4,6-Tribromophenol
Concen: 139.612 ng
RT: 15.910 min Scan# 2180
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:330 Resp: 1568781

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.4
141	32.7	28.3	42.5

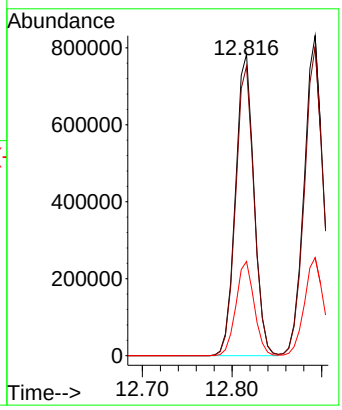




#43
2,4,6-Trichlorophenol
Concen: 65.111 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:196 Resp: 111923

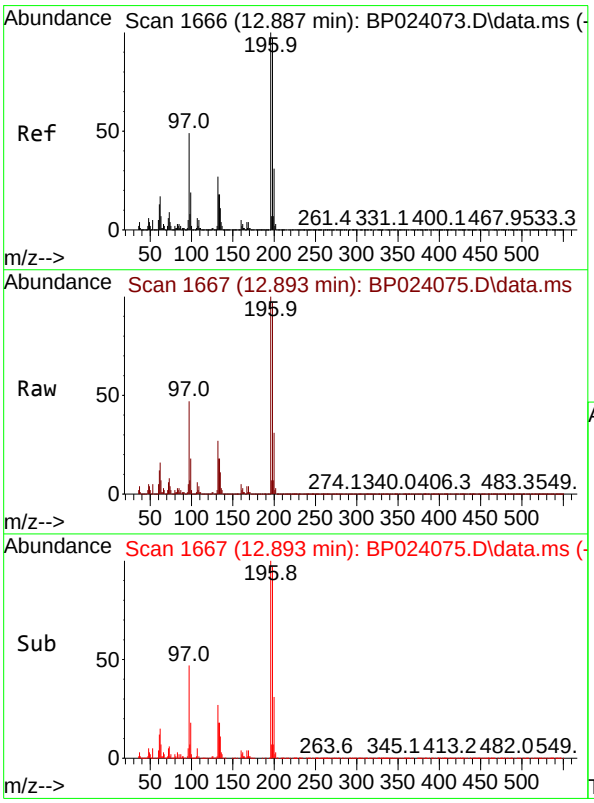
Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.8	116.6
200	31.2	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

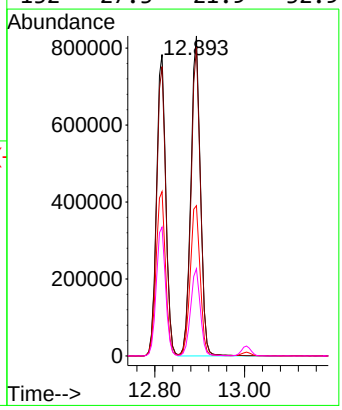
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

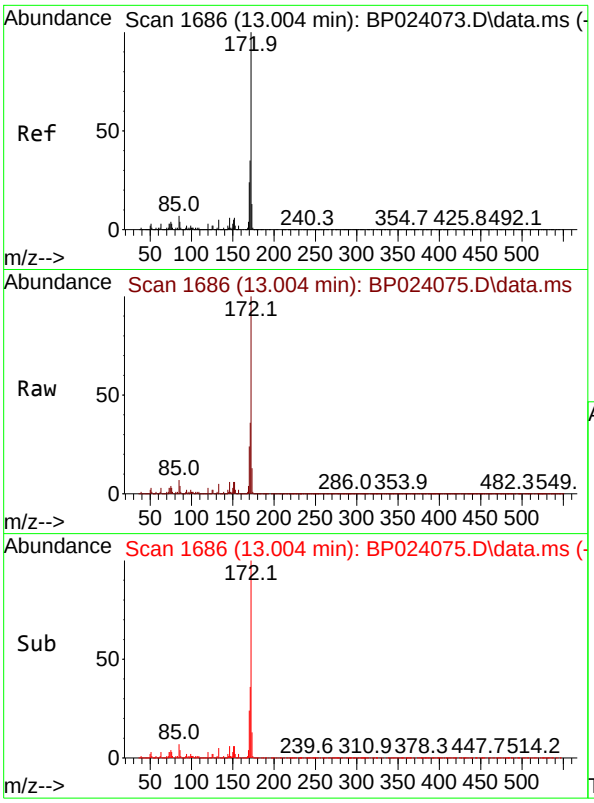


#44
2,4,5-Trichlorophenol
Concen: 65.508 ng
RT: 12.893 min Scan# 1667
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:196 Resp: 1231522

Ion	Ratio	Lower	Upper
196	100		
198	96.6	77.4	116.2
97	47.0	39.0	58.4
132	27.3	21.9	32.9

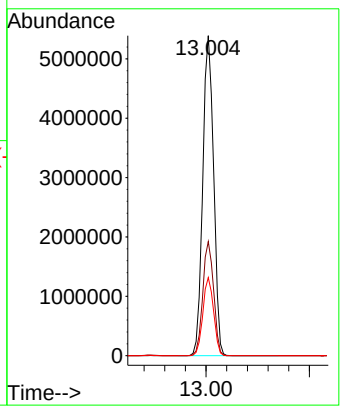




#45
2-Fluorobiphenyl
Concen: 119.852 ng
RT: 13.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:172 Resp: 786470

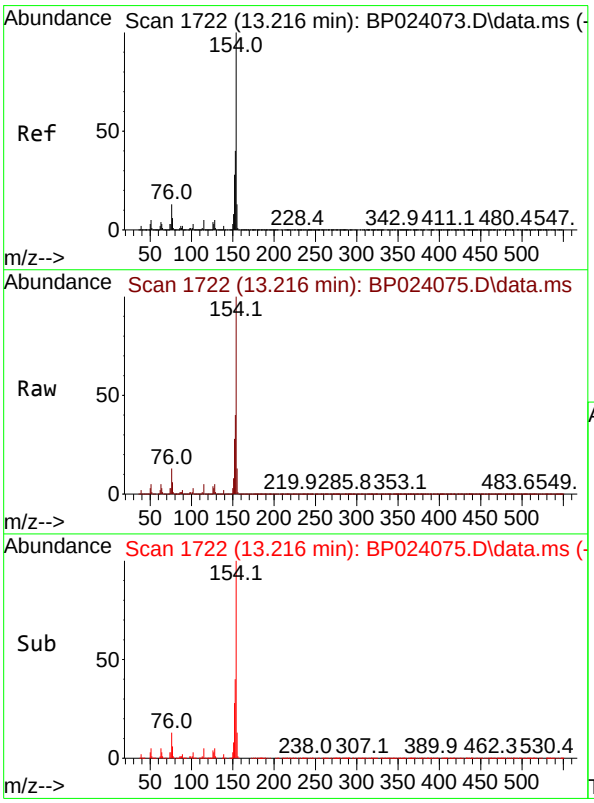
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	24.4	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

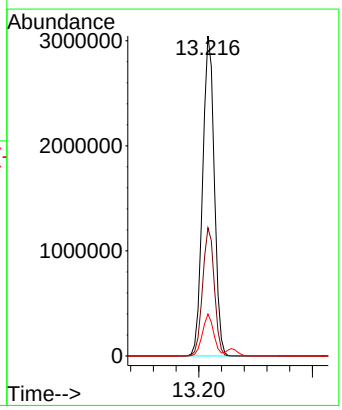
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

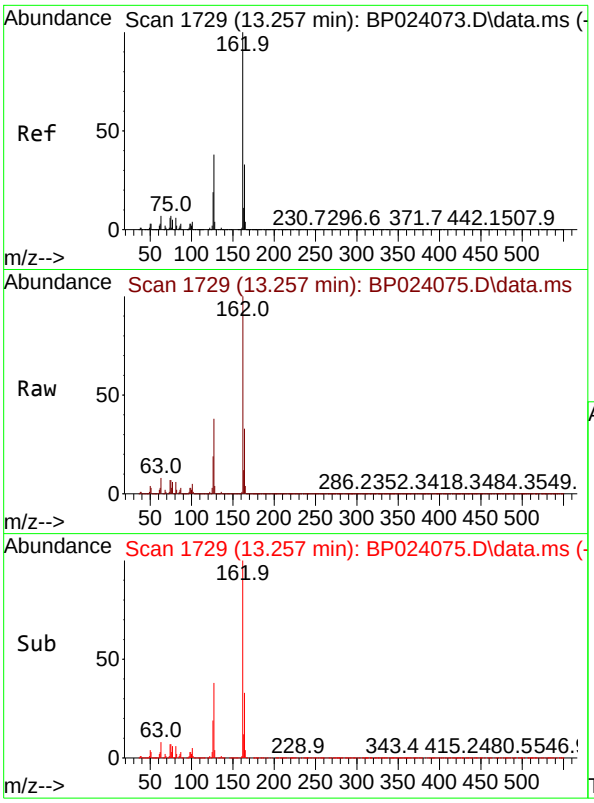


#46
1,1'-Biphenyl
Concen: 60.827 ng
RT: 13.216 min Scan# 1722
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:154 Resp: 4336048

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.0	60.0
76	13.1	0.0	32.6

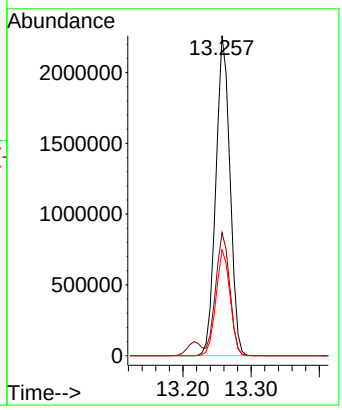




#47
2-Chloronaphthalene
Concen: 60.605 ng
RT: 13.257 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:162 Resp: 326588

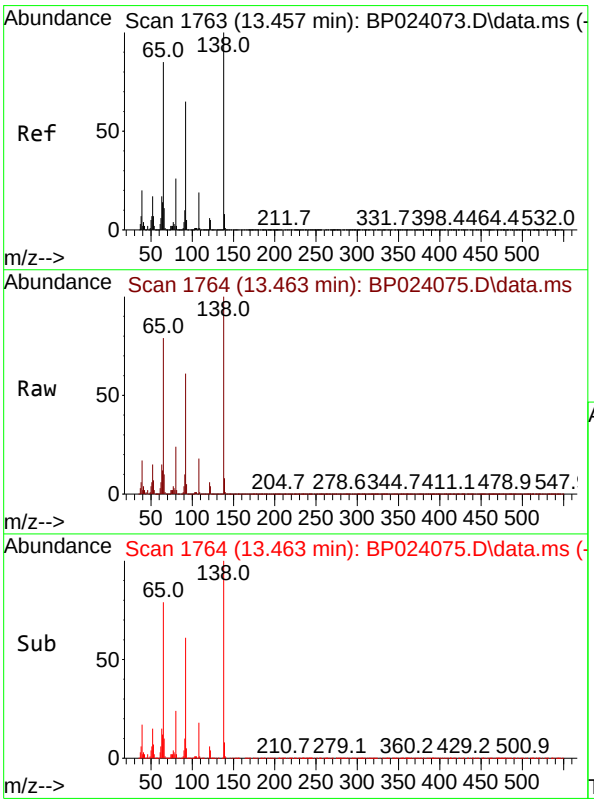
Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.7	46.1
164	33.1	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

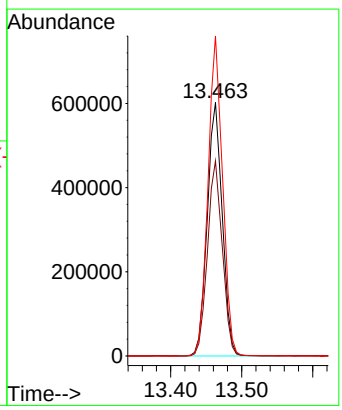
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

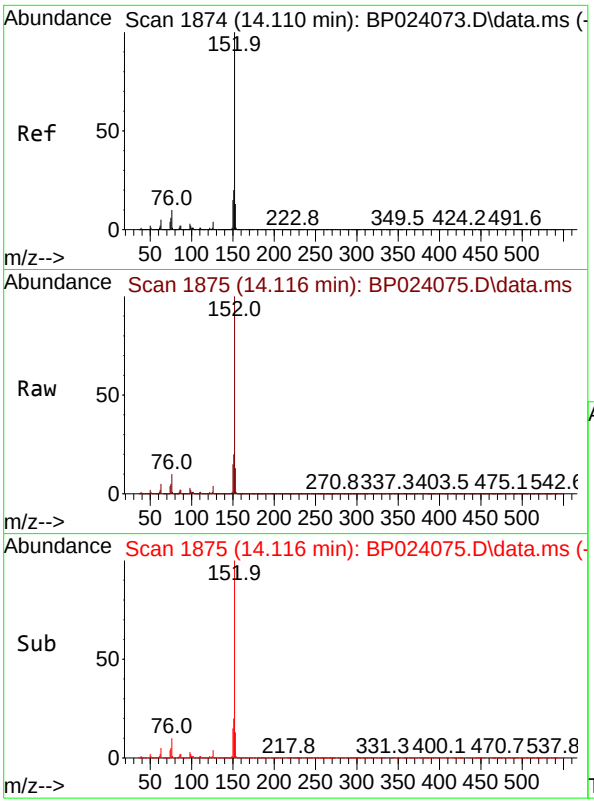


#48
2-Nitroaniline
Concen: 69.706 ng
RT: 13.463 min Scan# 1764
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 65 Resp: 887318

Ion	Ratio	Lower	Upper
65	100		
92	77.0	61.7	92.5
138	126.3	94.6	142.0

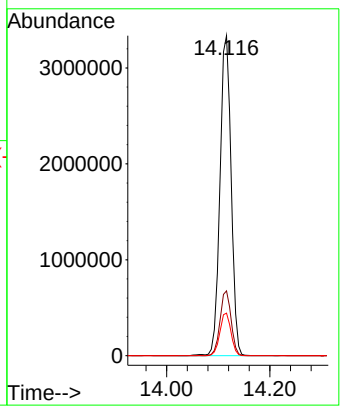




#49
Acenaphthylene
Concen: 62.893 ng
RT: 14.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:152 Resp: 499335

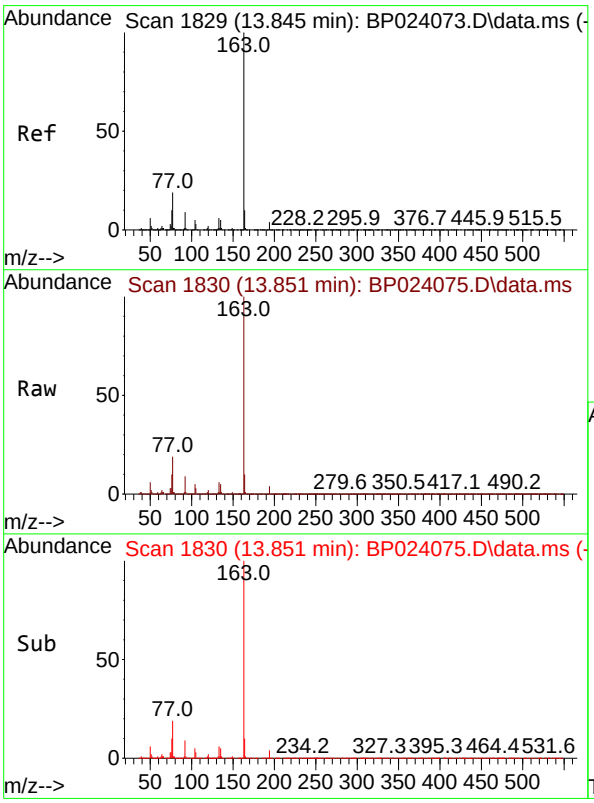
Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.8
153	13.3	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

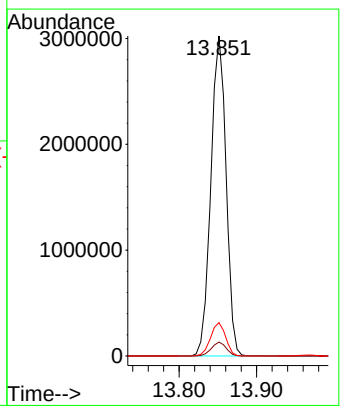
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

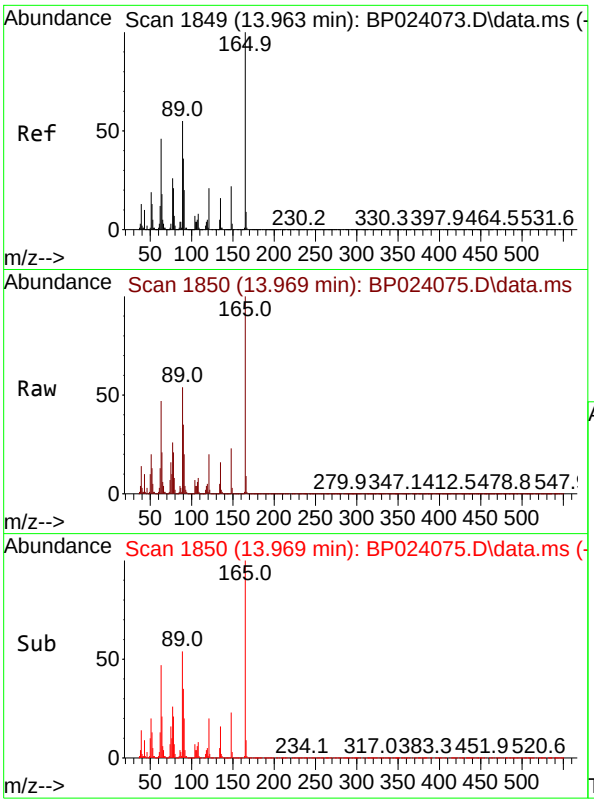


#50
Dimethylphthalate
Concen: 63.737 ng
RT: 13.851 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:163 Resp: 4124435

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.4	8.1	12.1

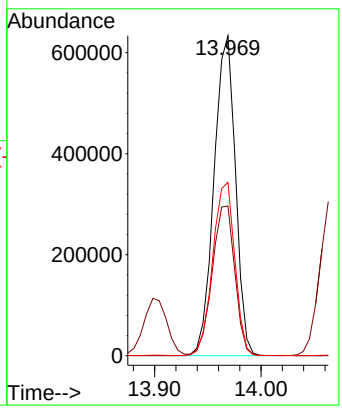




#51
2,6-Dinitrotoluene
Concen: 67.127 ng
RT: 13.969 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:165 Resp: 88483

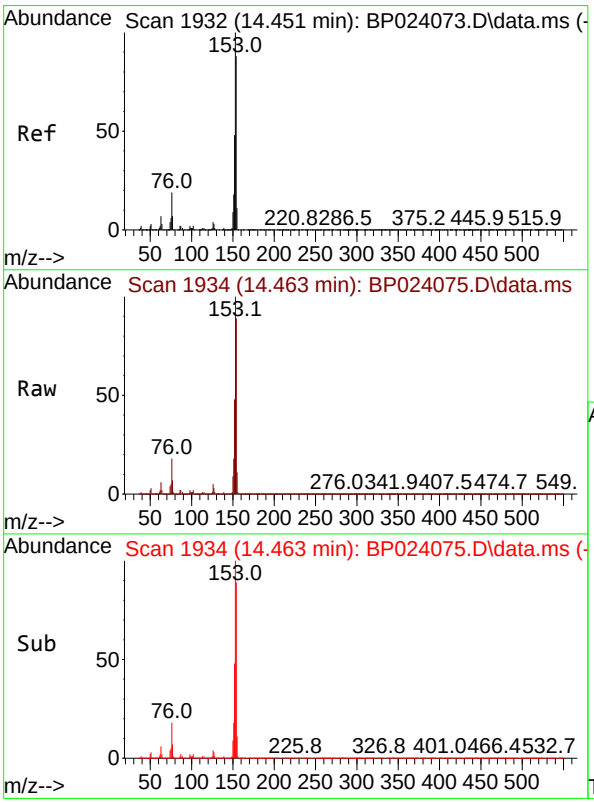
Ion	Ratio	Lower	Upper
165	100		
63	46.8	40.1	60.1
89	54.2	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

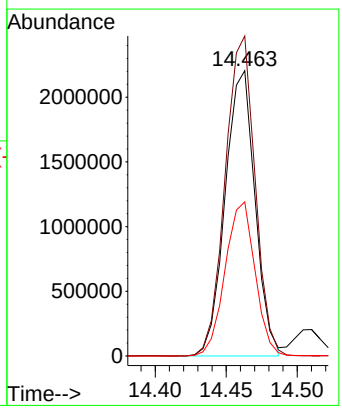
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

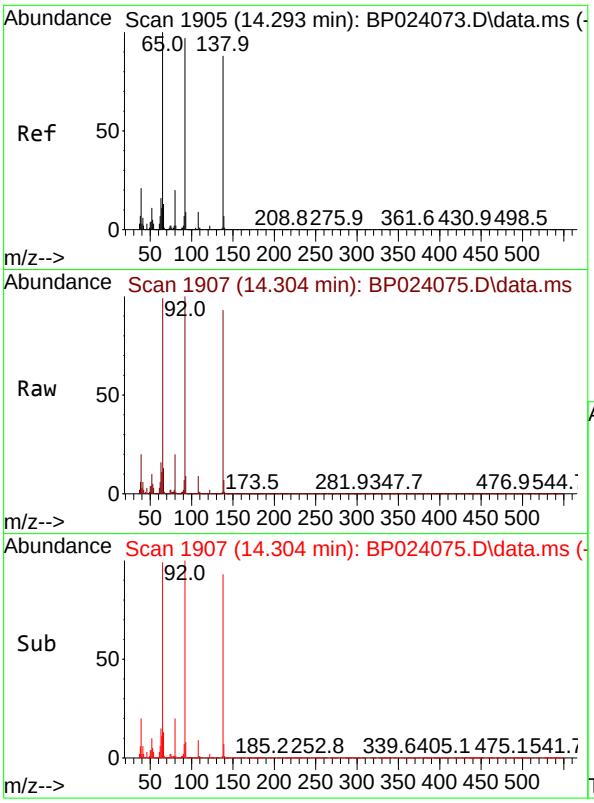


#52
Acenaphthene
Concen: 63.082 ng
RT: 14.463 min Scan# 1934
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:154 Resp: 3225226

Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.6	135.8
152	54.0	43.6	65.4





#53
3-Nitroaniline
Concen: 70.135 ng
RT: 14.304 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

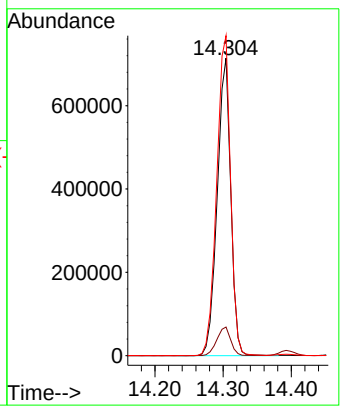
Instrument :
BNA_P
ClientSampleId :
SSTDICC060

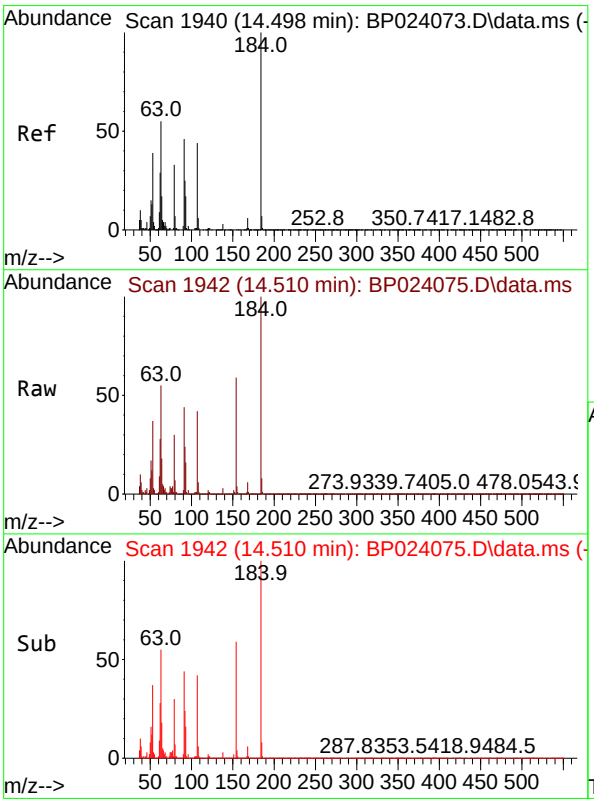
Tgt Ion:138 Resp: 98651

Ion	Ratio	Lower	Upper
138	100		
108	9.6	7.8	11.8
92	107.5	88.4	132.6

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

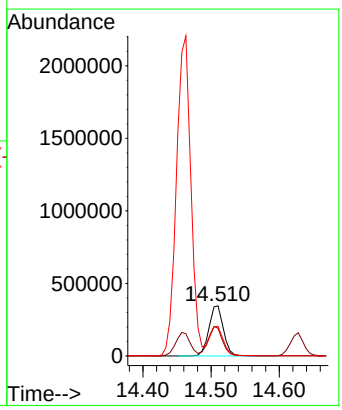


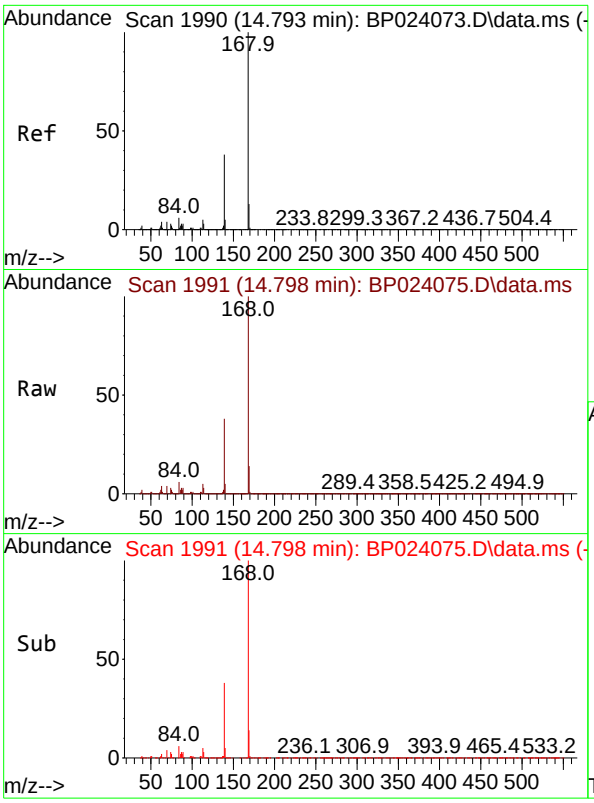


#54
2,4-Dinitrophenol
Concen: 61.192 ng
RT: 14.510 min Scan# 1942
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:184 Resp: 514185

Ion	Ratio	Lower	Upper
184	100		
63	55.3	49.4	74.0
154	59.0	49.2	73.8

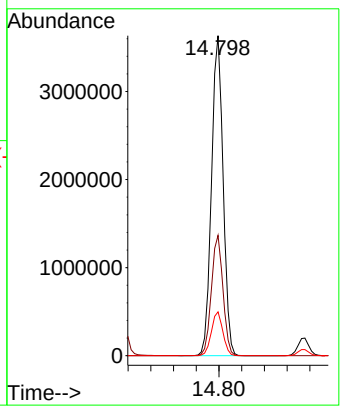




#55
Dibenzofuran
Concen: 61.729 ng
RT: 14.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:168 Resp: 512701

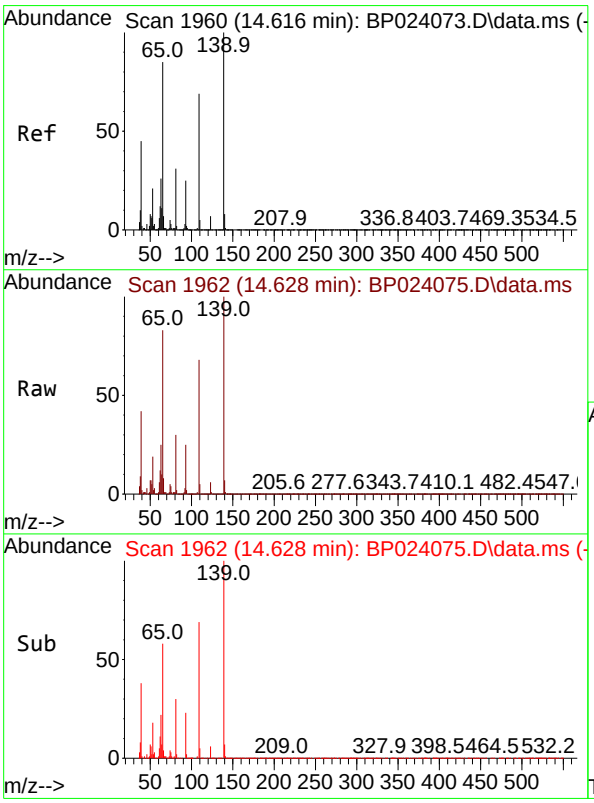
Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.2	45.2
169	13.7	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

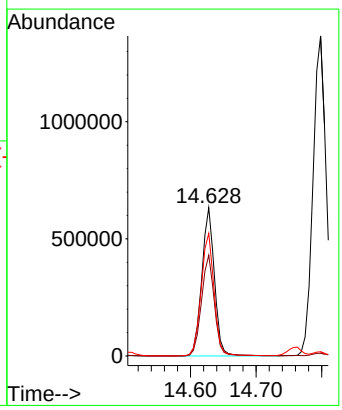
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

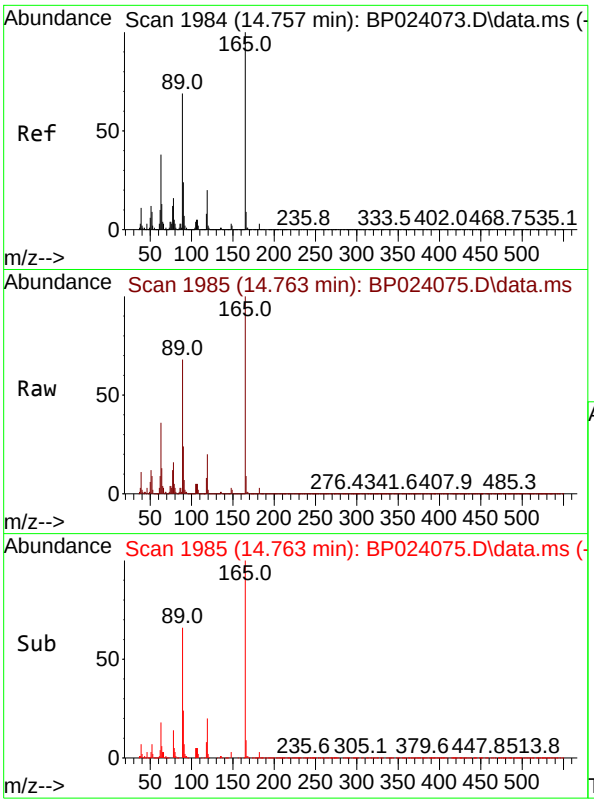


#56
4-Nitrophenol
Concen: 70.176 ng
RT: 14.628 min Scan# 1962
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:139 Resp: 852660

Ion	Ratio	Lower	Upper
139	100		
109	68.0	49.2	89.2
65	82.7	65.4	105.4

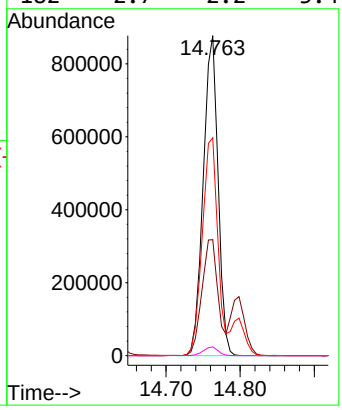




#57
2,4-Dinitrotoluene
Concen: 71.140 ng
RT: 14.763 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:165 Resp: 121816

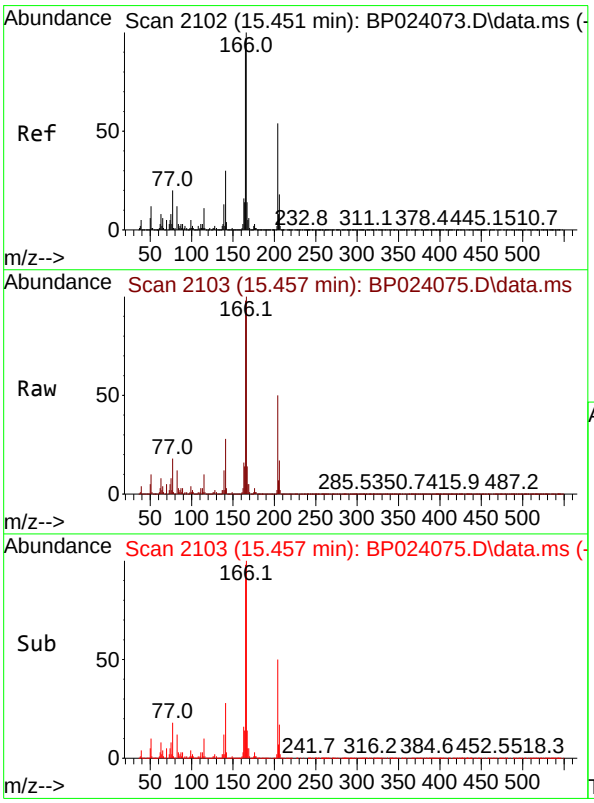
Ion	Ratio	Lower	Upper
165	100		
63	36.2	30.4	45.6
89	68.1	54.8	82.2
182	2.7	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

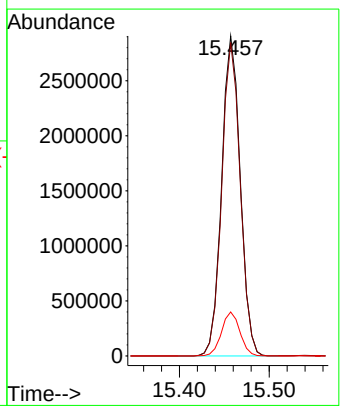
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

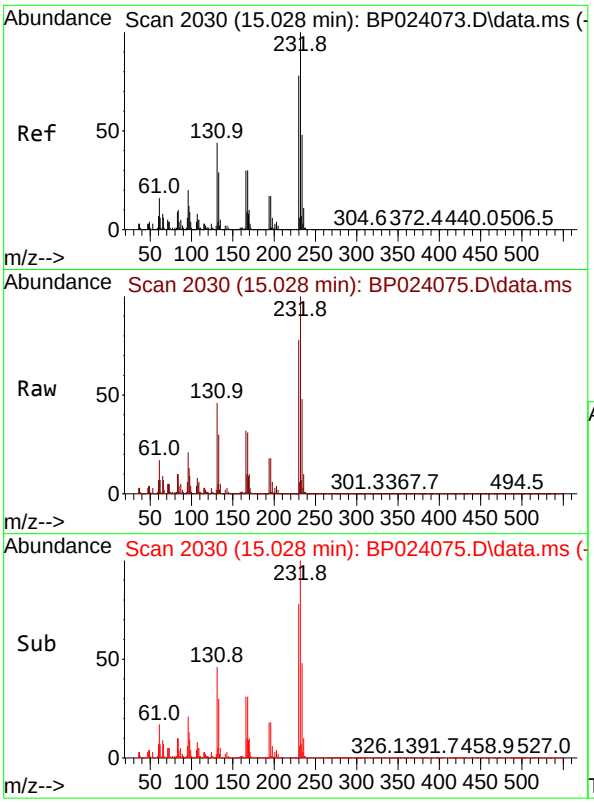


#58
Fluorene
Concen: 64.527 ng
RT: 15.457 min Scan# 2103
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:166 Resp: 4185570

Ion	Ratio	Lower	Upper
166	100		
165	98.0	77.5	116.3
167	13.8	10.9	16.3

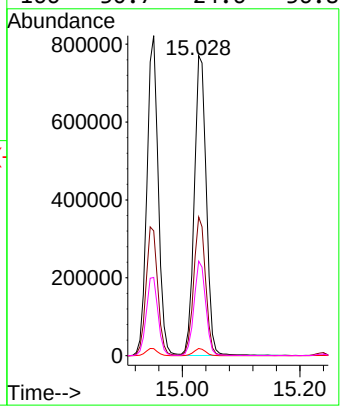




#59
2,3,4,6-Tetrachlorophenol
Concen: 66.990 ng
RT: 15.028 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:232 Resp: 109264

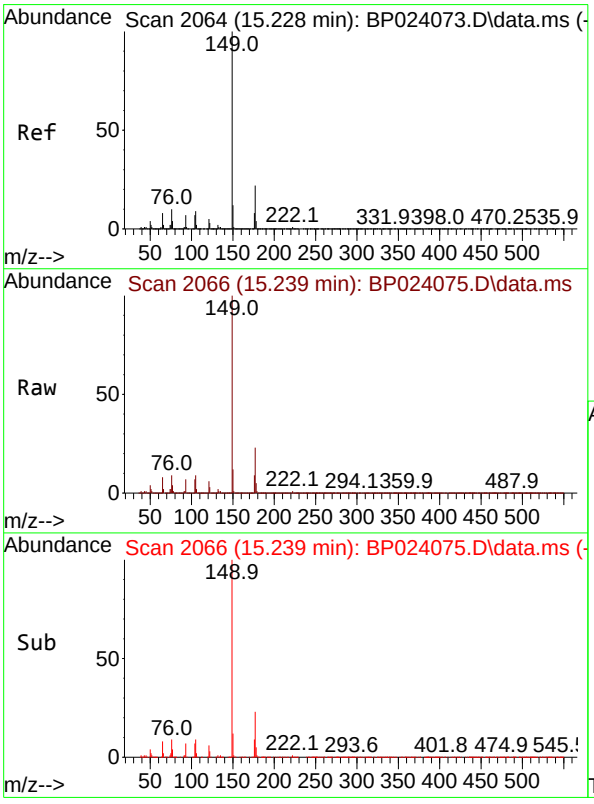
Ion	Ratio	Lower	Upper
232	100		
131	45.9	37.3	55.9
130	2.3	1.9	2.9
166	30.7	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

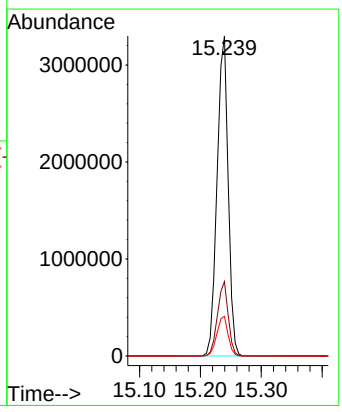
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

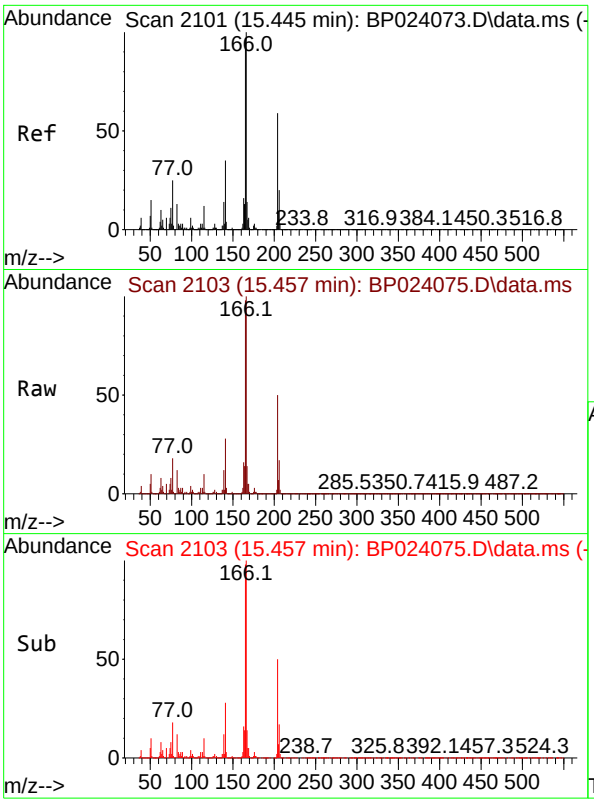


#60
Diethylphthalate
Concen: 64.725 ng
RT: 15.239 min Scan# 2066
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:149 Resp: 4157700

Ion	Ratio	Lower	Upper
149	100		
177	23.2	17.9	26.9
150	12.4	9.8	14.6

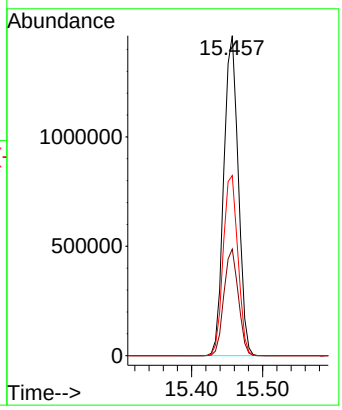




#61
4-Chlorophenyl-phenylether
Concen: 64.553 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

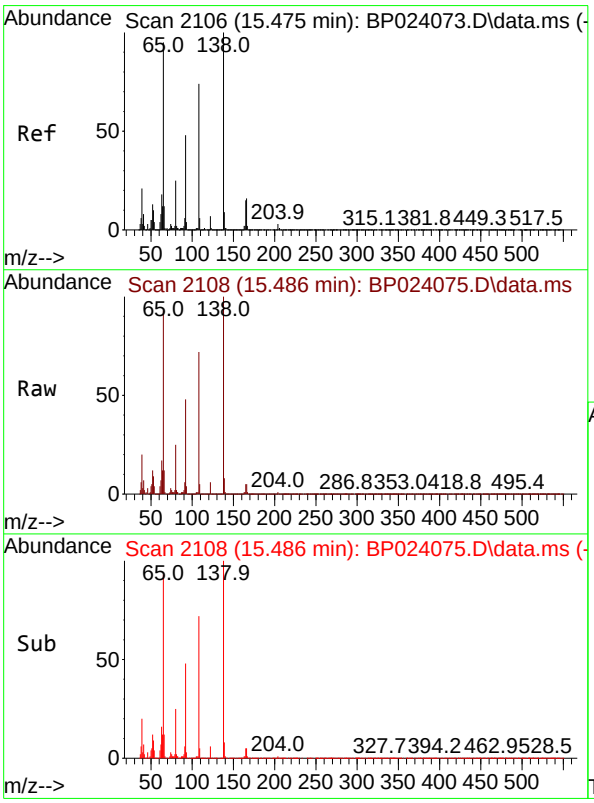
Tgt Ion:204 Resp: 206100

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.6	39.8
141	56.3	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

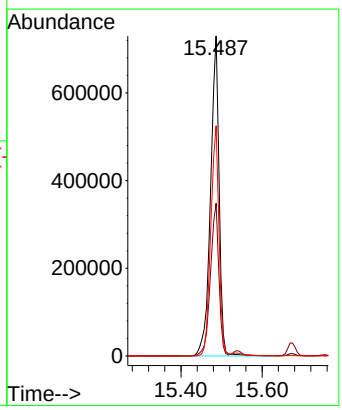
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

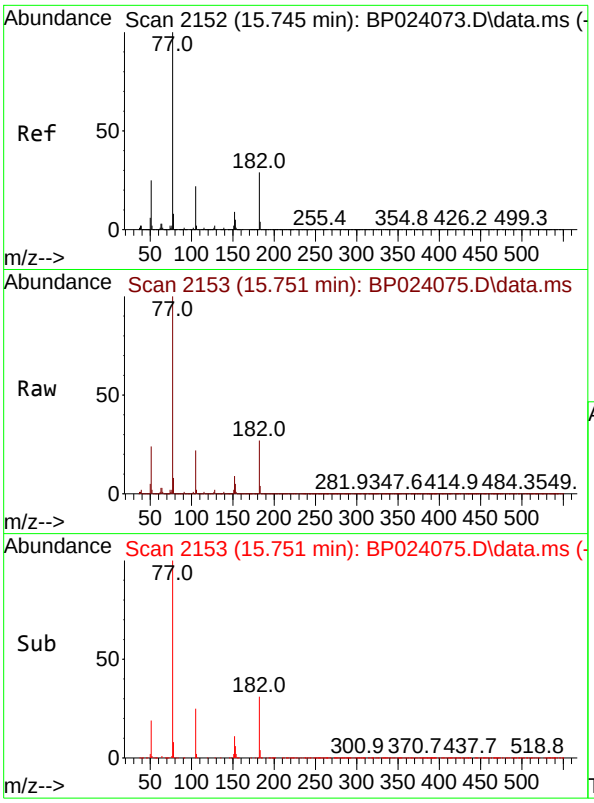


#62
4-Nitroaniline
Concen: 62.865 ng
RT: 15.486 min Scan# 2108
Delta R.T. 0.011 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:138 Resp: 1065073

Ion	Ratio	Lower	Upper
138	100		
92	47.8	28.3	68.3
108	71.9	54.0	94.0

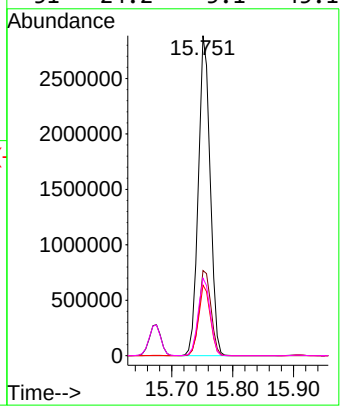




#63
Azobenzene
Concen: 64.761 ng
RT: 15.751 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion: 77 Resp: 389824

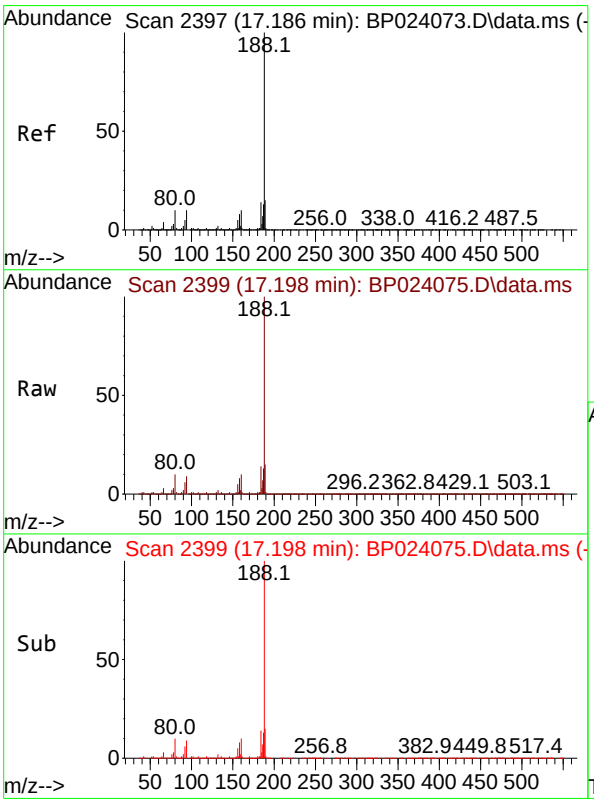
Ion	Ratio	Lower	Upper
77	100		
182	26.6	8.5	48.5
105	22.0	1.8	41.8
51	24.2	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

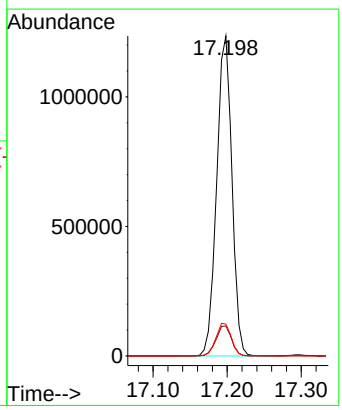
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

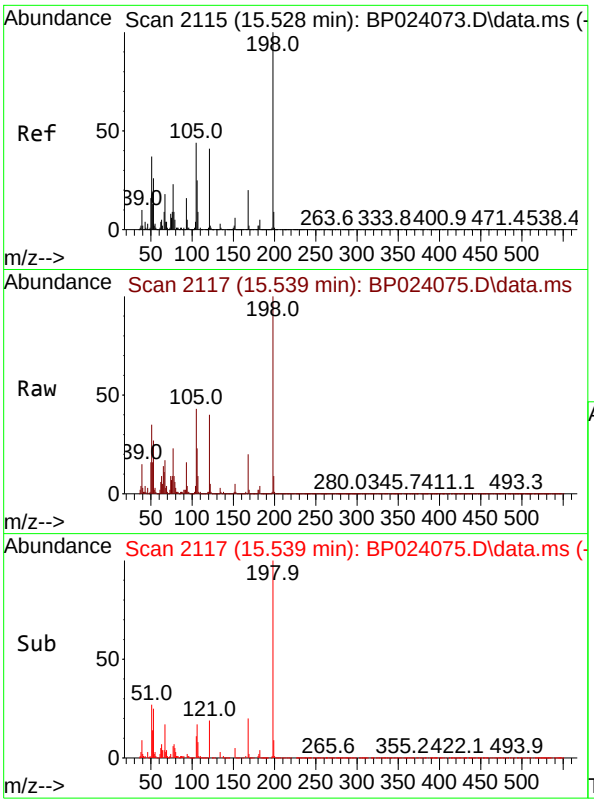


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.198 min Scan# 2399
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:188 Resp: 1765913

Ion	Ratio	Lower	Upper
188	100		
94	9.4	7.6	11.4
80	10.0	8.2	12.2





#65
4,6-Dinitro-2-methylphenol
Concen: 60.225 ng
RT: 15.539 min Scan# 21
Delta R.T. 0.011 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

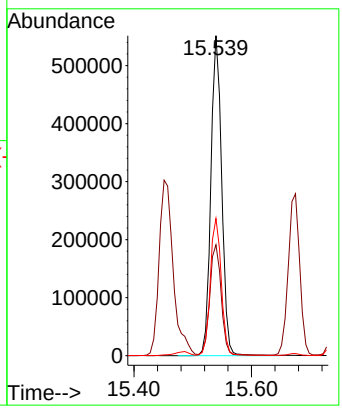
Tgt Ion:198 Resp: 70300

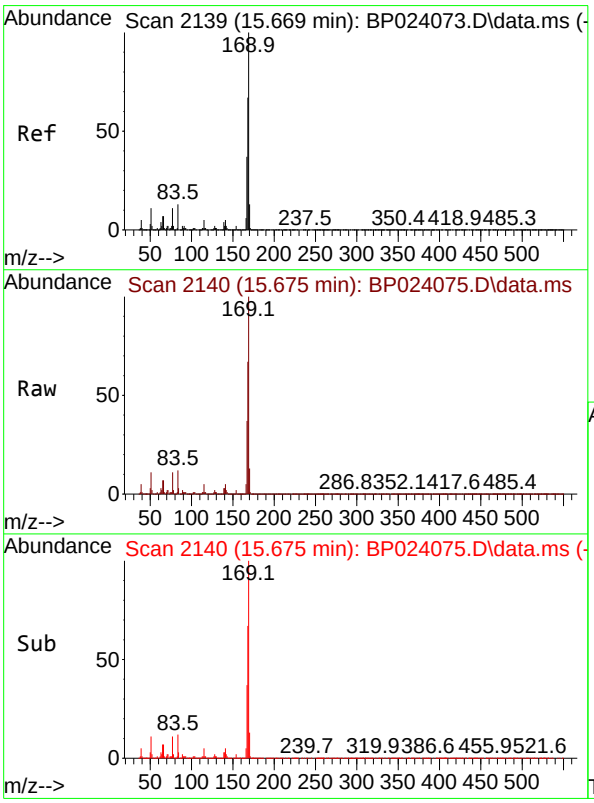
Ion	Ratio	Lower	Upper
198	100		
51	34.7	18.7	58.7
105	42.8	24.7	64.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

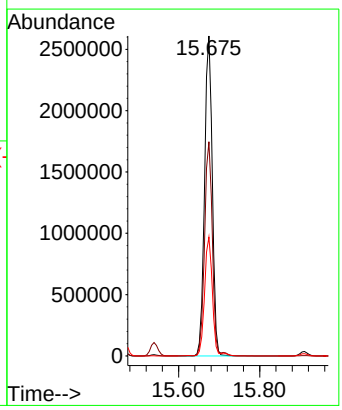


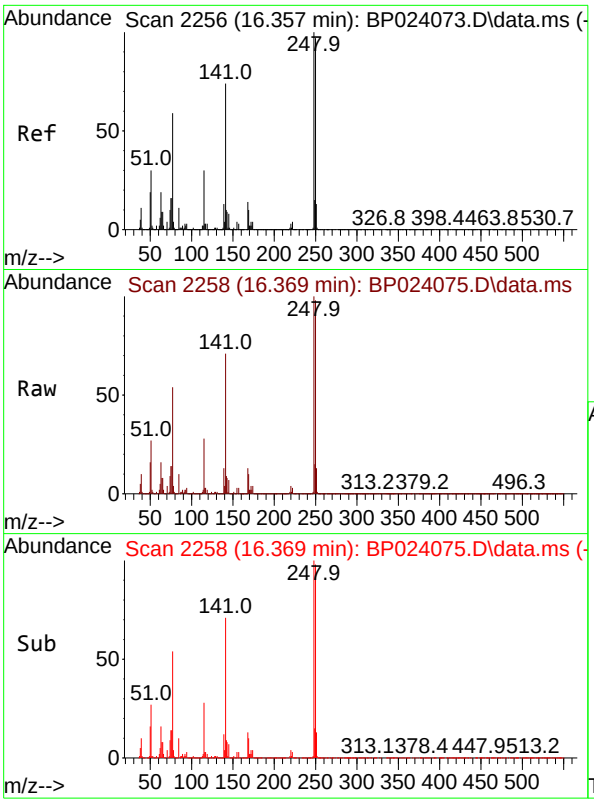


#66
n-Nitrosodiphenylamine
Concen: 62.009 ng
RT: 15.675 min Scan# 2140
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:169 Resp: 3414829

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.6	80.4
167	37.2	29.5	44.3





#67
4-Bromophenyl-phenylether
Concen: 62.601 ng
RT: 16.369 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

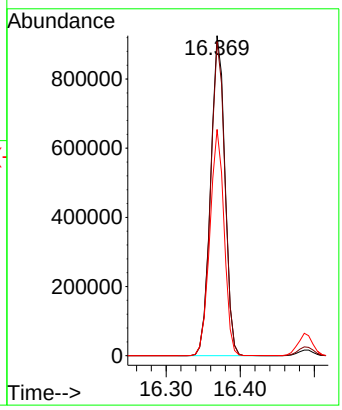
Instrument :
BNA_P
ClientSampleId :
SSTDICC060

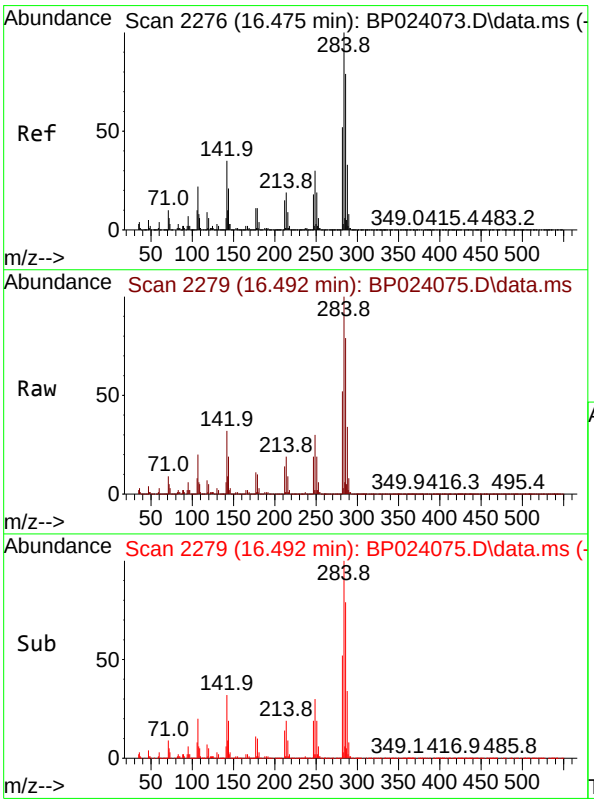
Tgt Ion:248 Resp: 124140

Ion	Ratio	Lower	Upper
248	100		
250	98.2	77.9	116.9
141	70.7	58.8	88.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

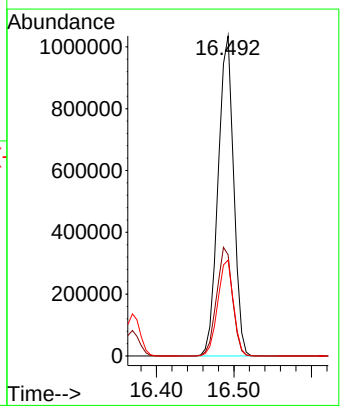


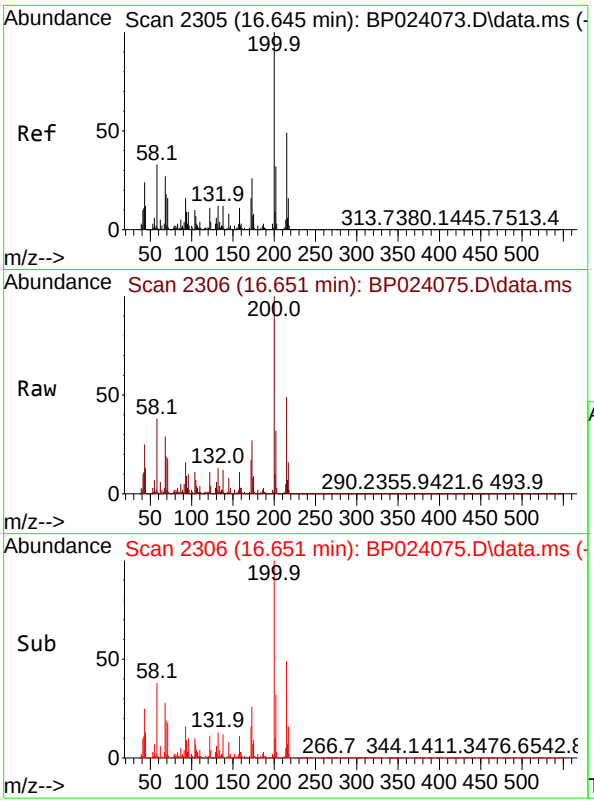


#68
Hexachlorobenzene
Concen: 61.796 ng
RT: 16.492 min Scan# 2279
Delta R.T. 0.018 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:284 Resp: 1441949

Ion	Ratio	Lower	Upper
284	100		
142	31.6	27.7	41.5
249	30.0	23.8	35.6

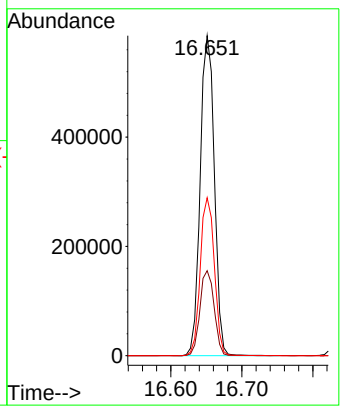




#69
Atrazine
Concen: 57.580 ng
RT: 16.651 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:200 Resp: 81374

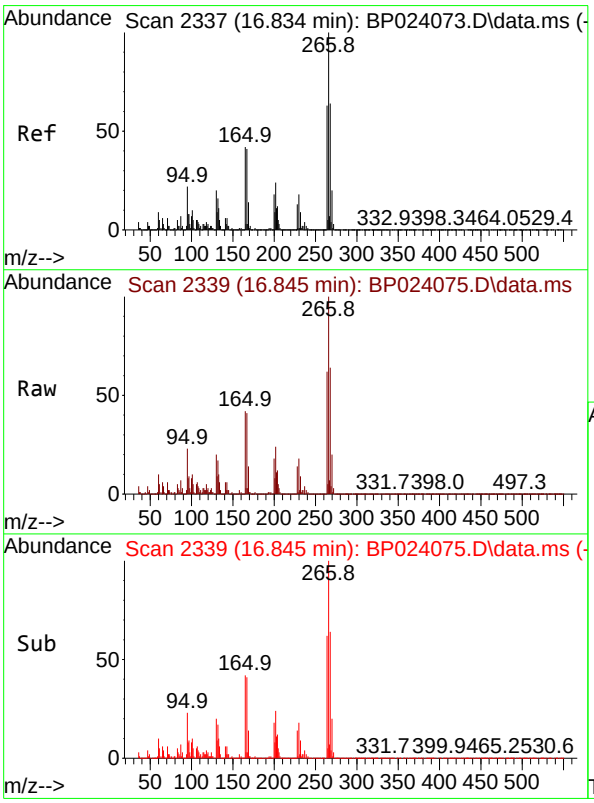
Ion	Ratio	Lower	Upper
200	100		
173	26.6	5.7	45.7
215	49.3	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

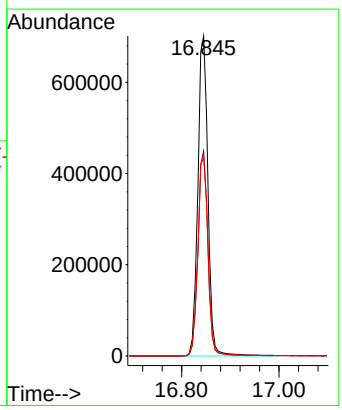
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

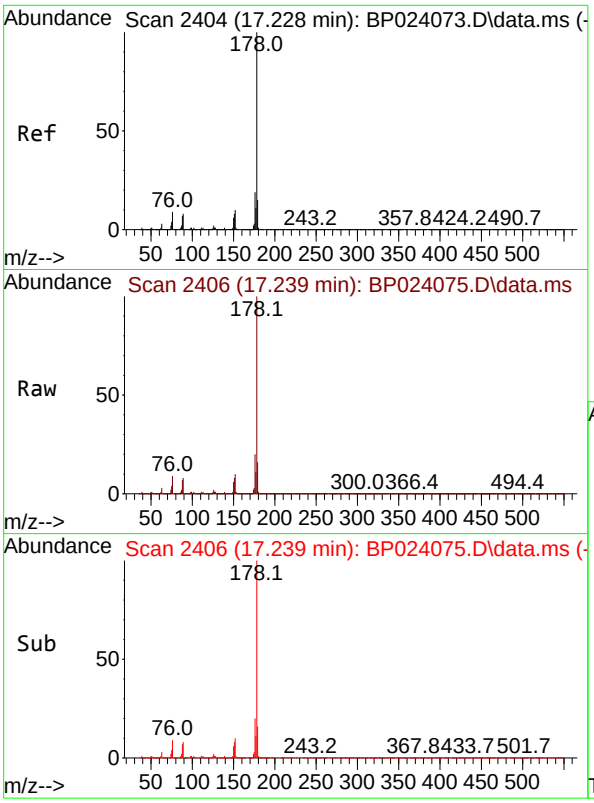


#70
Pentachlorophenol
Concen: 66.770 ng
RT: 16.845 min Scan# 2339
Delta R.T. 0.011 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:266 Resp: 1011899

Ion	Ratio	Lower	Upper
266	100		
268	64.0	51.3	76.9
264	62.2	50.5	75.7

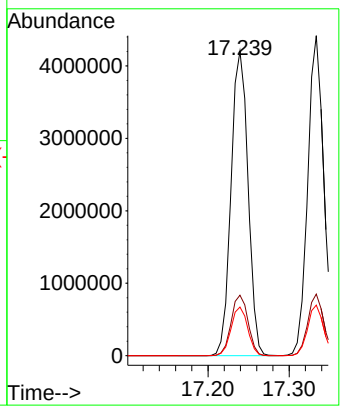




#71
Phenanthrene
Concen: 61.268 ng
RT: 17.239 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:178 Resp: 609978

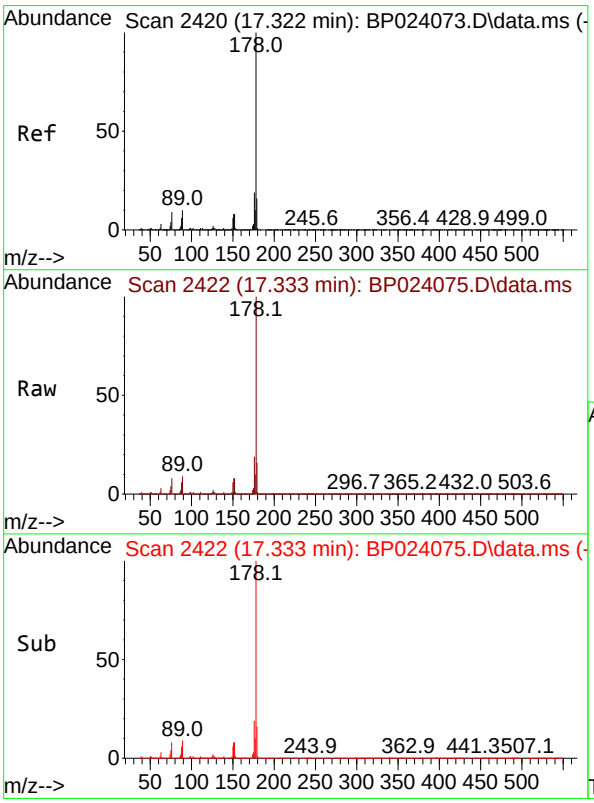
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.5	23.3
179	16.0	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

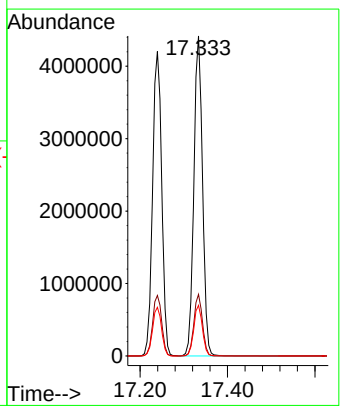
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

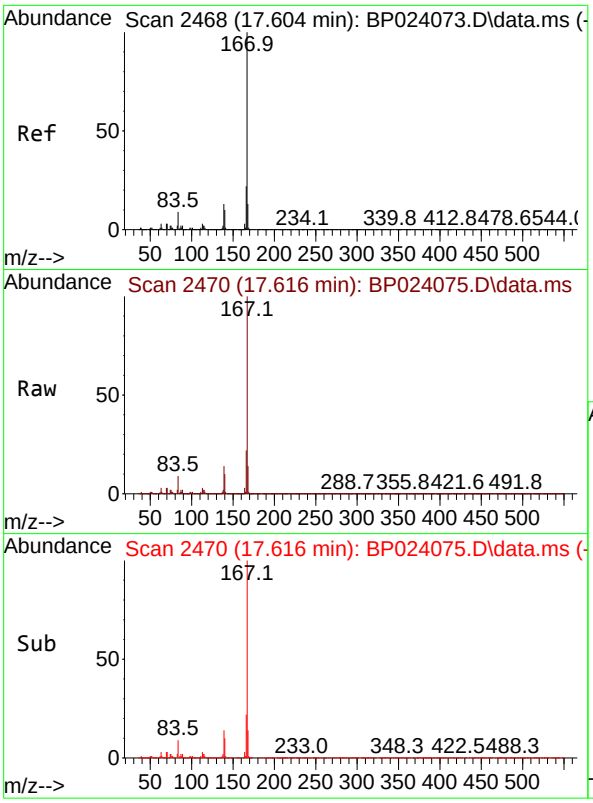


#72
Anthracene
Concen: 63.897 ng
RT: 17.333 min Scan# 2422
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:178 Resp: 6096285

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.8	12.6	19.0

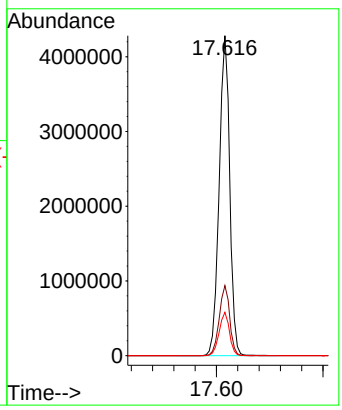




#73
Carbazole
Concen: 64.537 ng
RT: 17.616 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:167 Resp: 586661

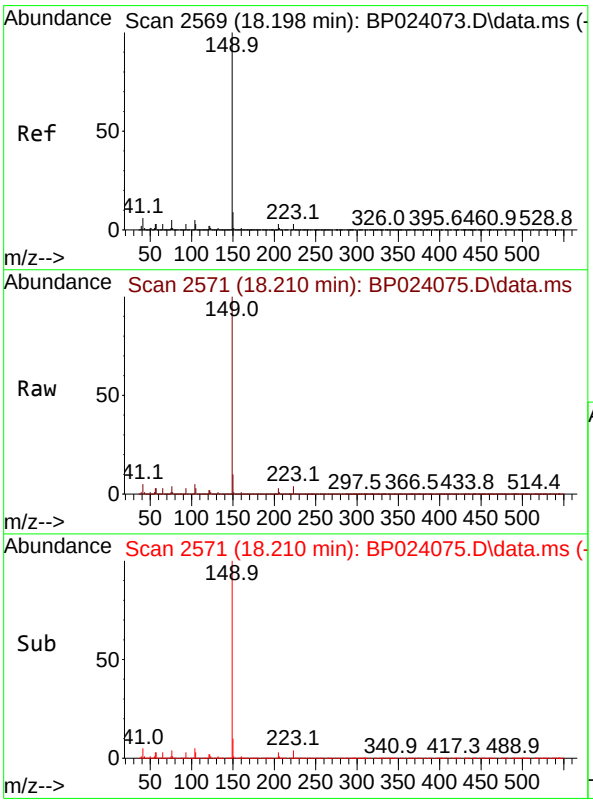
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.3	25.9
139	13.6	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

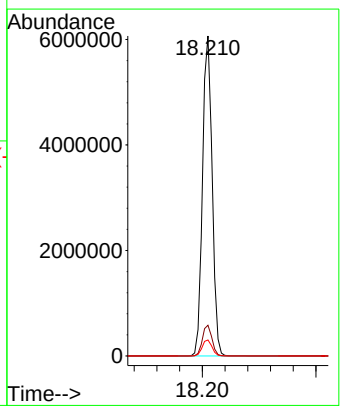
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

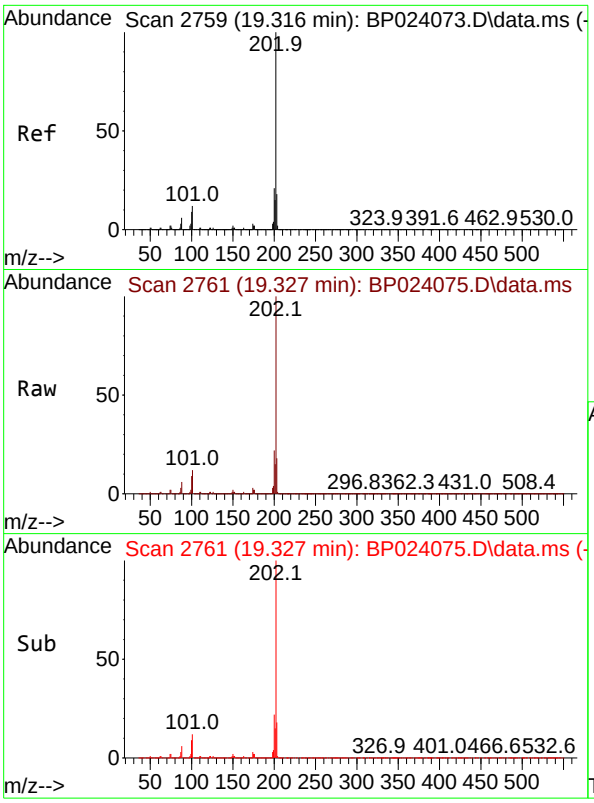


#74
Di-n-butylphthalate
Concen: 67.112 ng
RT: 18.210 min Scan# 2571
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:149 Resp: 7118459

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.4	11.2
104	5.0	4.2	6.2





#75
Fluoranthene
Concen: 63.643 ng
RT: 19.327 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

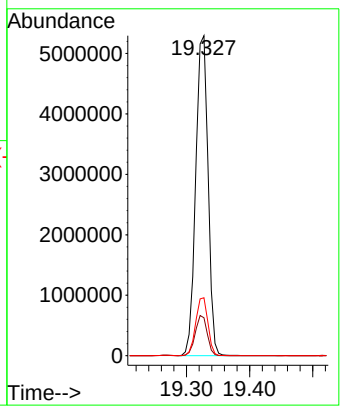
Tgt Ion:202 Resp: 716688

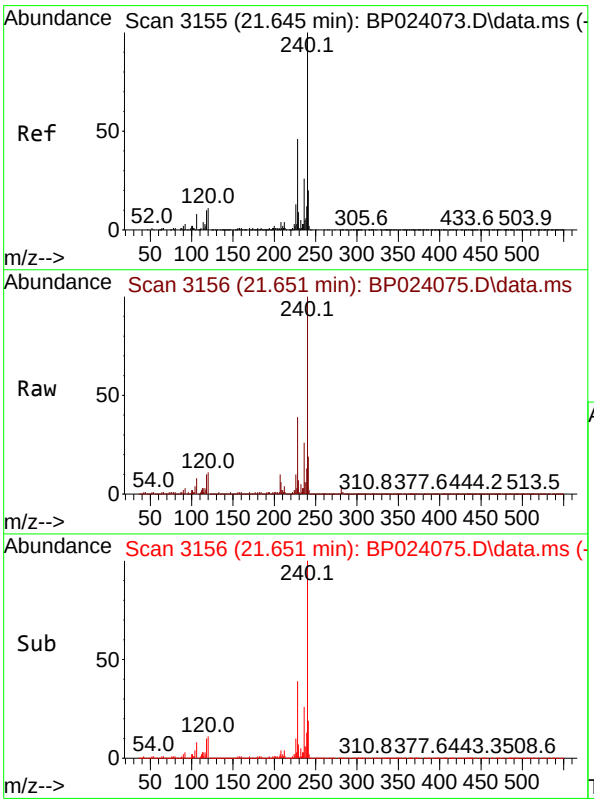
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.9
203	18.1	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

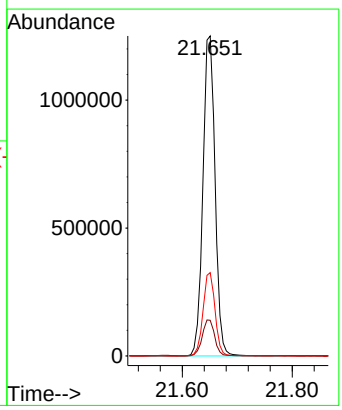


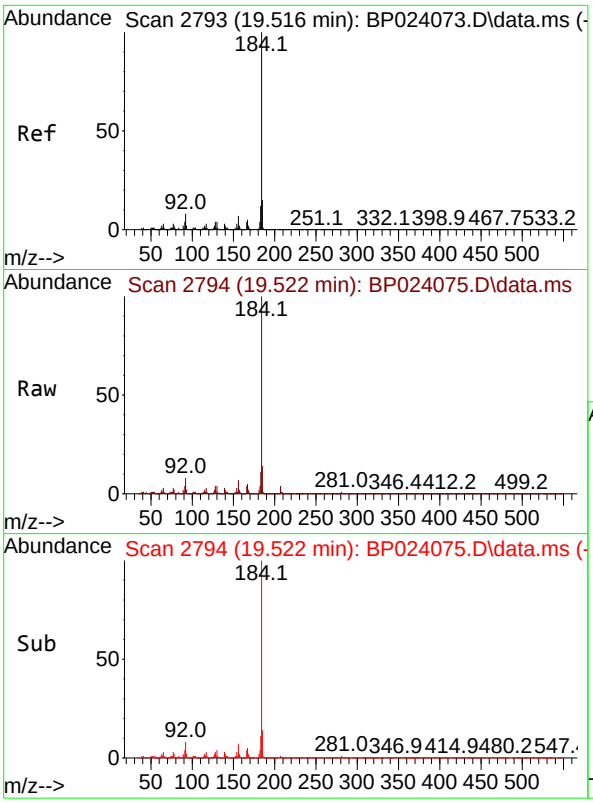


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.651 min Scan# 3156
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:240 Resp: 1918593

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.9	13.3
236	26.0	20.7	31.1

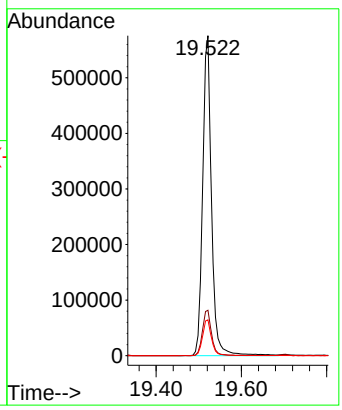




#77
Benzidine
Concen: 35.429 ng
RT: 19.522 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:184 Resp: 82831

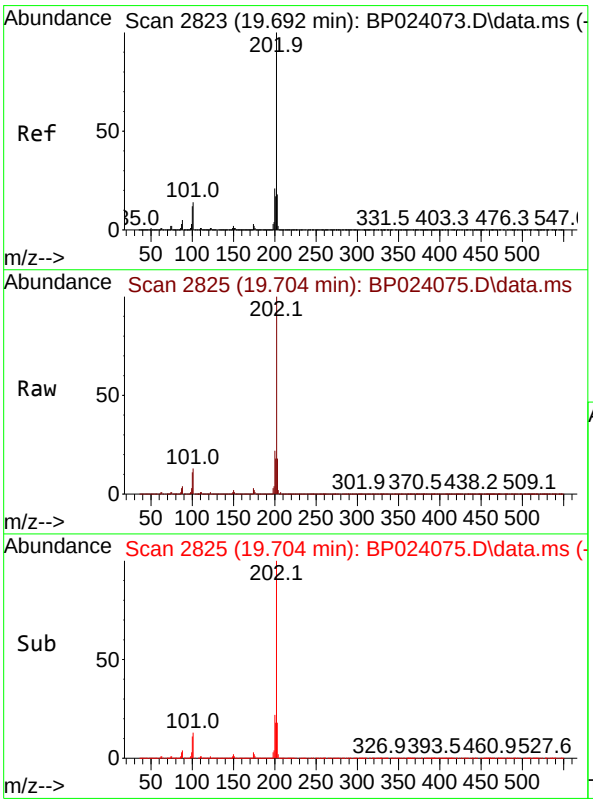
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.8	17.8
183	11.2	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

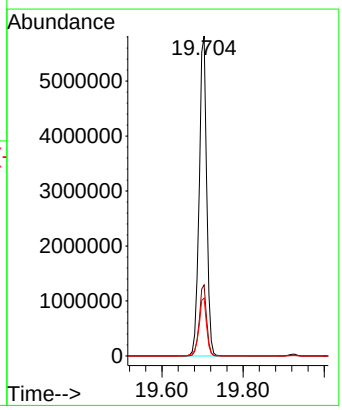
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

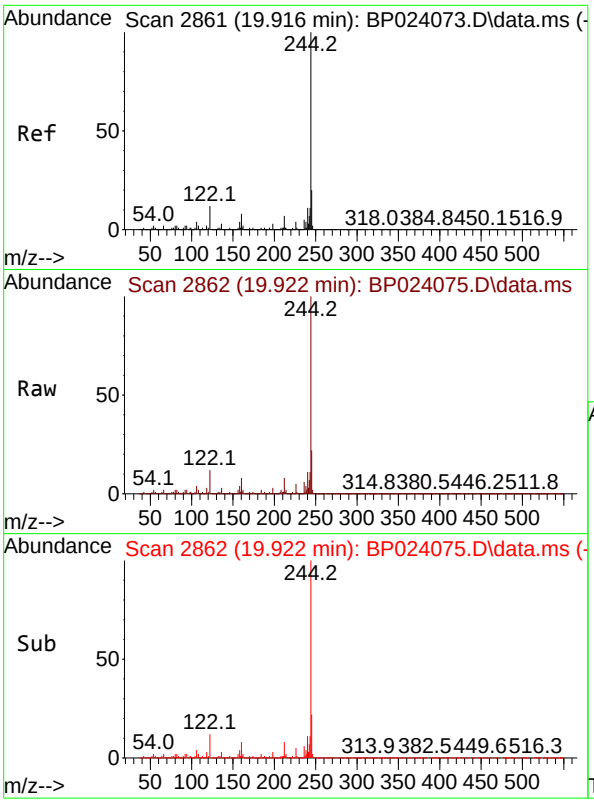


#78
Pyrene
Concen: 61.389 ng
RT: 19.704 min Scan# 2825
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:202 Resp: 7481316

Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.2	25.8
203	18.1	14.4	21.6

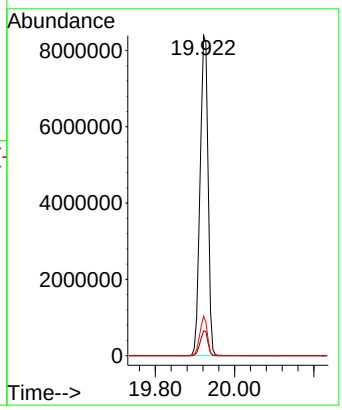




#79
Terphenyl-d14
Concen: 119.961 ng
RT: 19.922 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:244 Resp:1163142

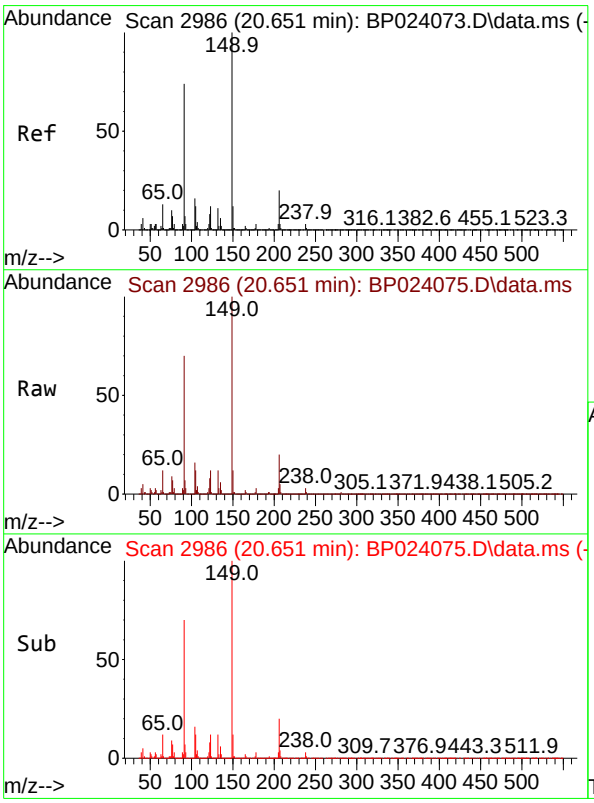
Ion	Ratio	Lower	Upper
244	100		
212	7.8	5.9	8.9
122	12.3	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

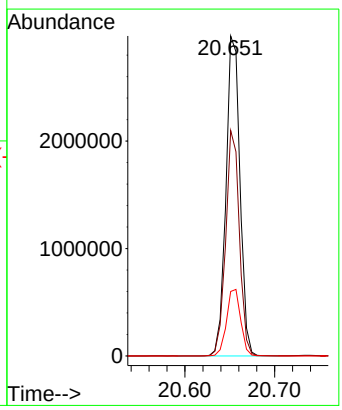
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

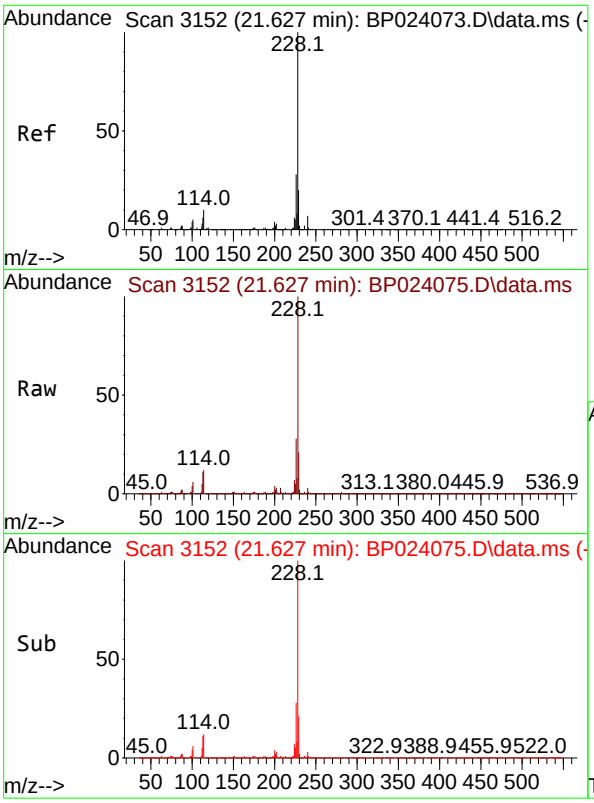


#80
Butylbenzylphthalate
Concen: 68.978 ng
RT: 20.651 min Scan# 2986
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:149 Resp: 3221190

Ion	Ratio	Lower	Upper
149	100		
91	70.5	59.4	89.0
206	20.2	16.2	24.2

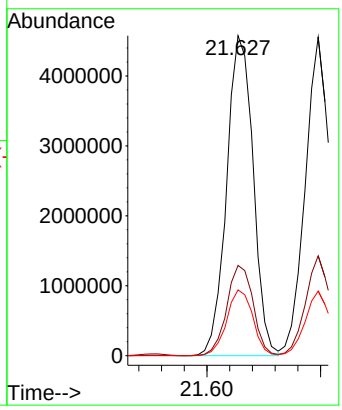




#81
Benzo(a)anthracene
Concen: 61.773 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:228 Resp: 743169

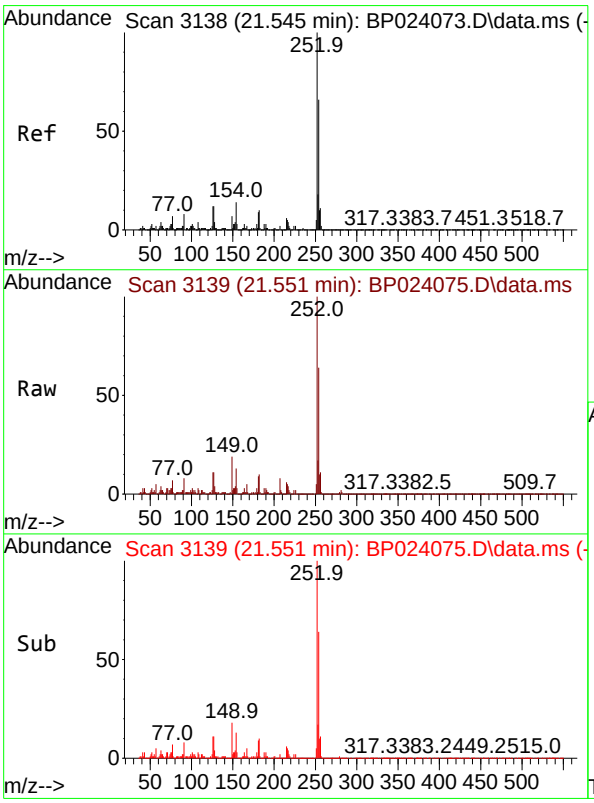
Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.2	33.4
229	20.5	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

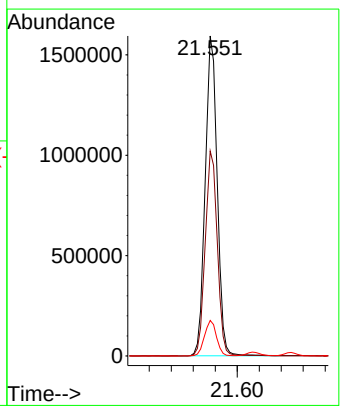
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

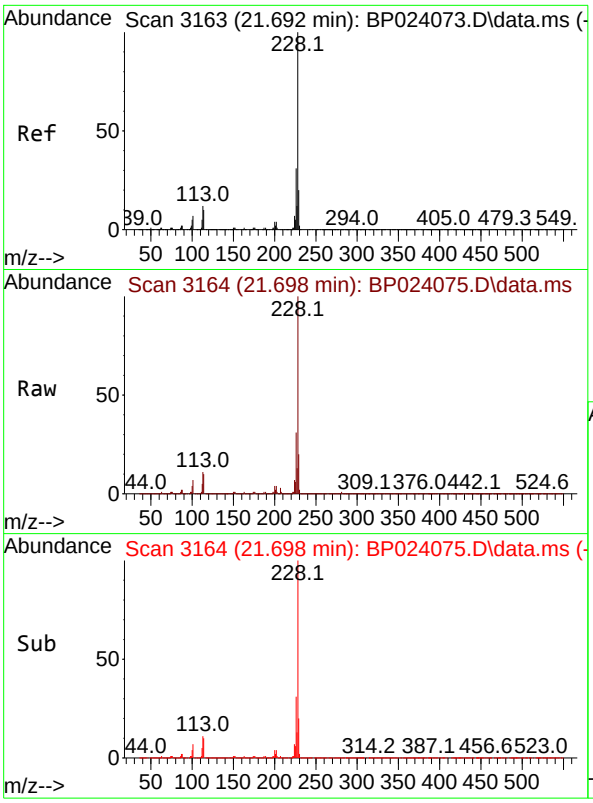


#82
3,3'-Dichlorobenzidine
Concen: 64.226 ng
RT: 21.551 min Scan# 3139
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:252 Resp: 2414479

Ion	Ratio	Lower	Upper
252	100		
254	64.0	52.4	78.6
126	11.1	9.6	14.4

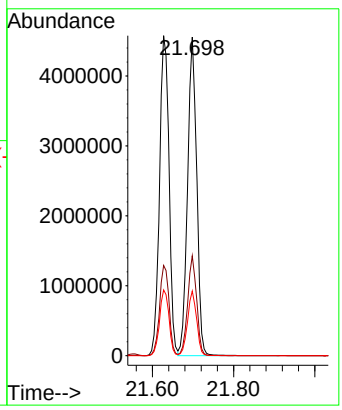




#83
Chrysene
Concen: 61.307 ng
RT: 21.698 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:228 Resp: 711207

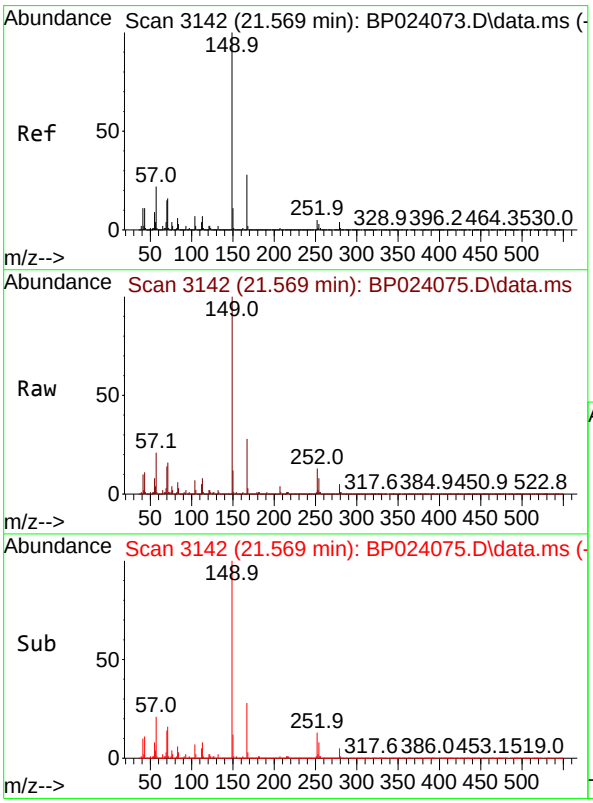
Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.5	36.7
229	20.3	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

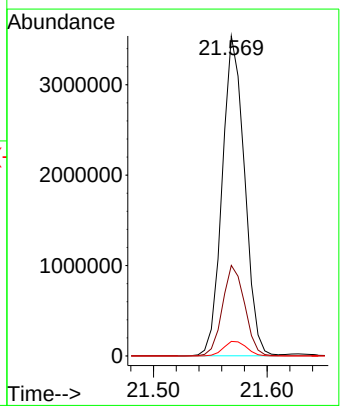
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

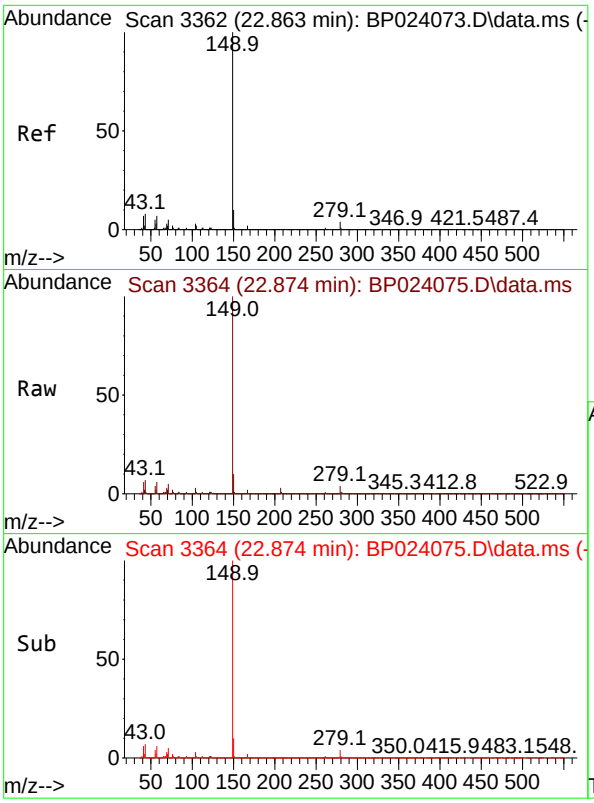


#84
Bis(2-ethylhexyl)phthalate
Concen: 68.305 ng
RT: 21.569 min Scan# 3142
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:149 Resp: 4837121

Ion	Ratio	Lower	Upper
149	100		
167	28.3	22.2	33.2
279	4.6	3.6	5.4

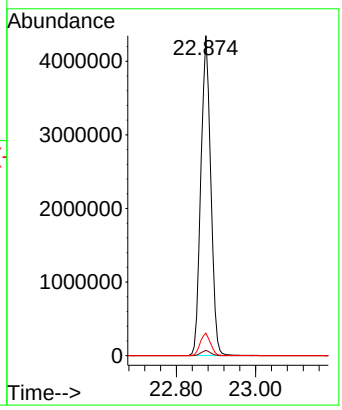




#85
Di-n-octyl phthalate
Concen: 66.644 ng
RT: 22.874 min Scan# 3
Delta R.T. 0.011 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:149 Resp: 754368

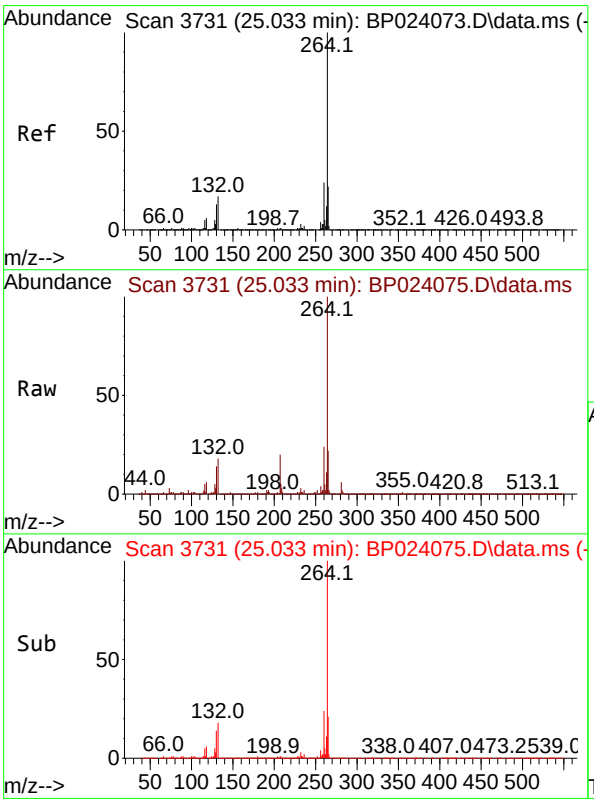
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.3	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

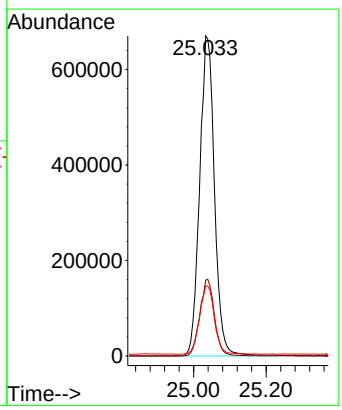
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

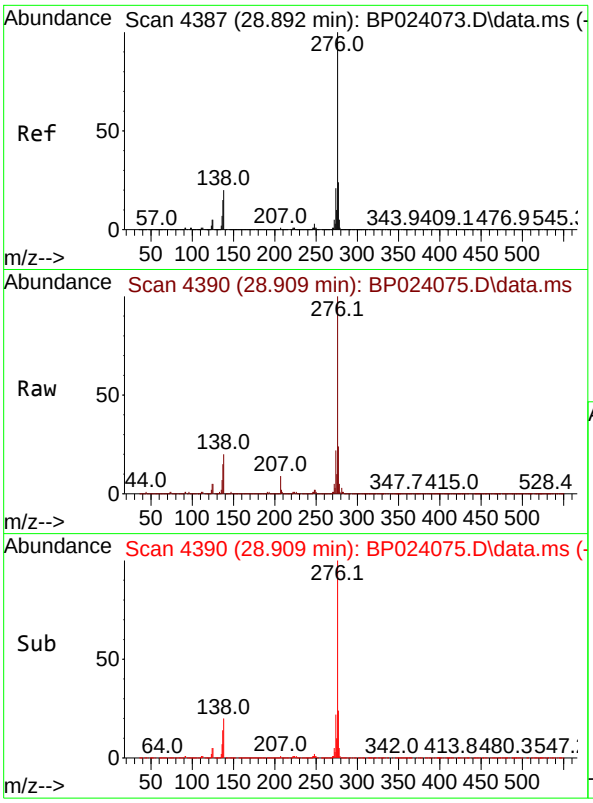


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.033 min Scan# 3731
Delta R.T. -0.000 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:264 Resp: 1894825

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	21.9	17.8	26.8

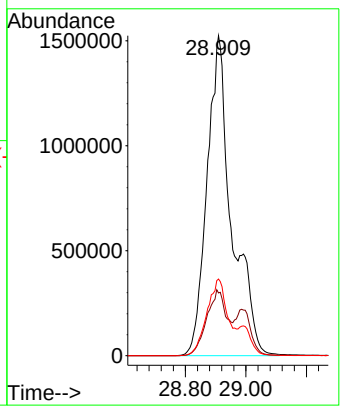




#87
Indeno(1,2,3-cd)pyrene
Concen: 64.038 ng m
RT: 28.909 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:276 Resp: 863649

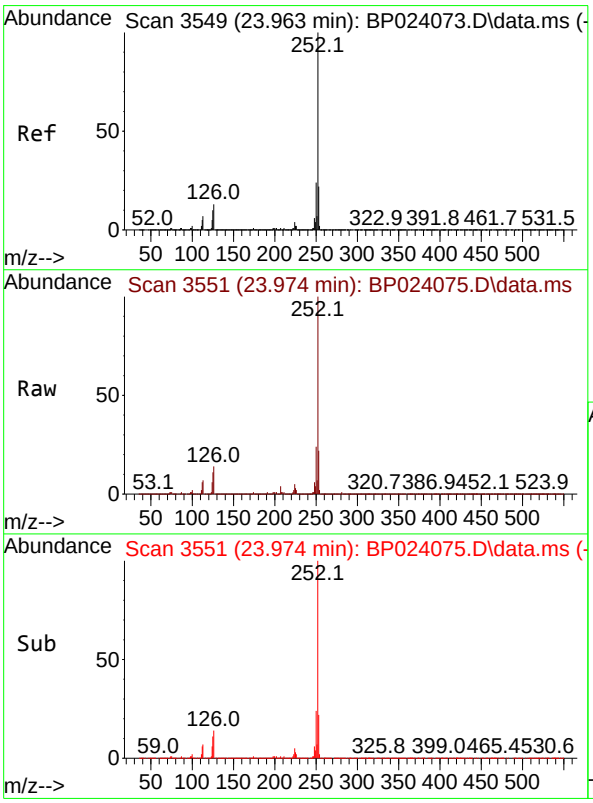
Ion	Ratio	Lower	Upper
276	100		
138	17.0	14.2	21.4
277	20.8	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

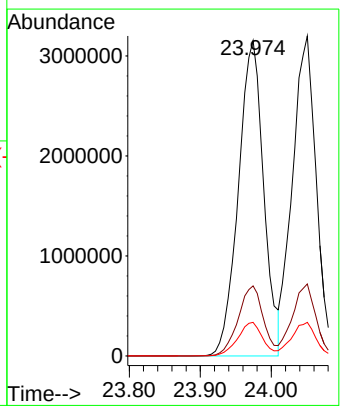
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

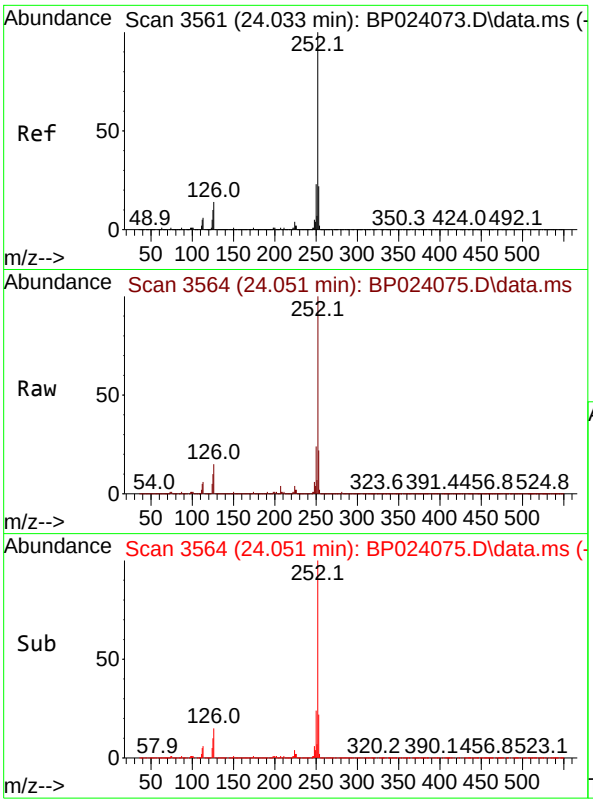


#88
Benzo(b)fluoranthene
Concen: 64.996 ng
RT: 23.974 min Scan# 3551
Delta R.T. 0.012 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:252 Resp: 7820714

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.7	8.4	12.6

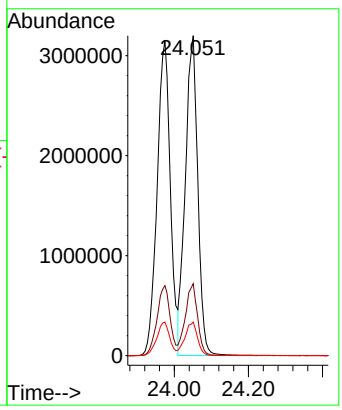




#89
Benzo(k)fluoranthene
Concen: 63.764 ng
RT: 24.051 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:252 Resp: 746808

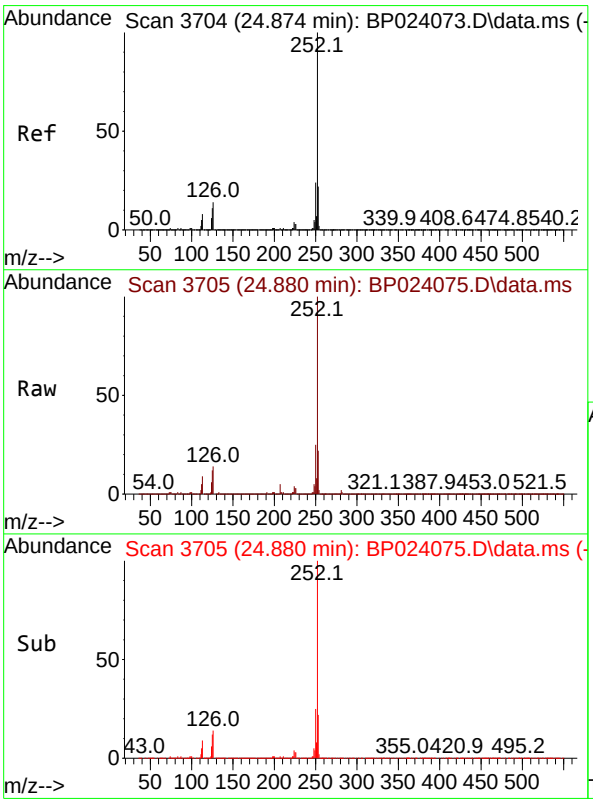
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.6
125	10.5	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

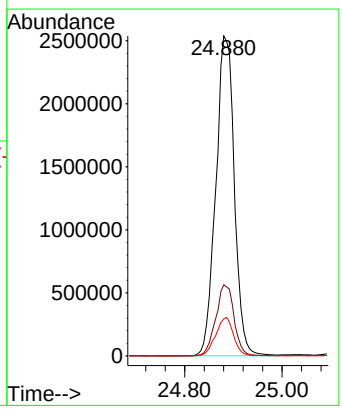
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

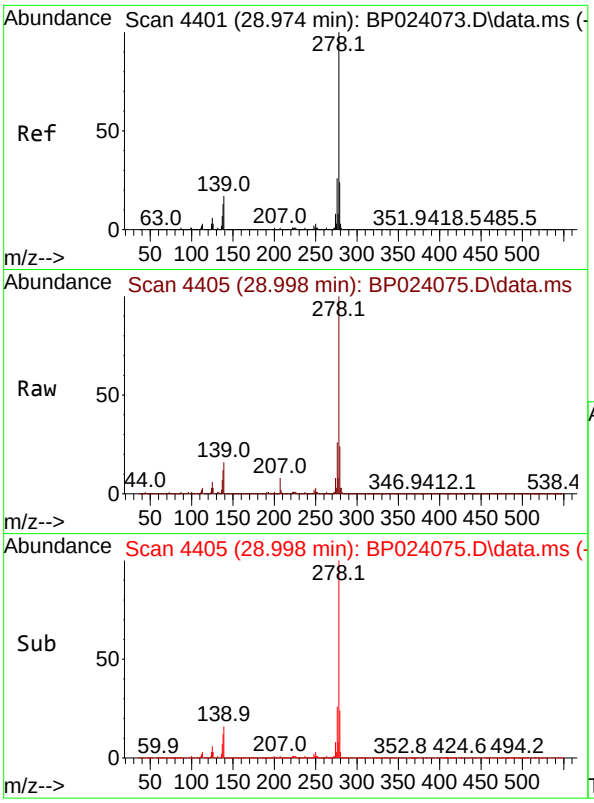


#90
Benzo(a)pyrene
Concen: 65.822 ng
RT: 24.880 min Scan# 3705
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:252 Resp: 6721503

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	11.6	8.8	13.2

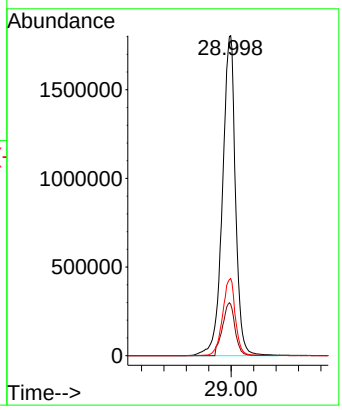




#91
Dibenzo(a,h)anthracene
Concen: 64.331 ng
RT: 28.998 min Scan# 4
Delta R.T. 0.023 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:278 Resp: 729138

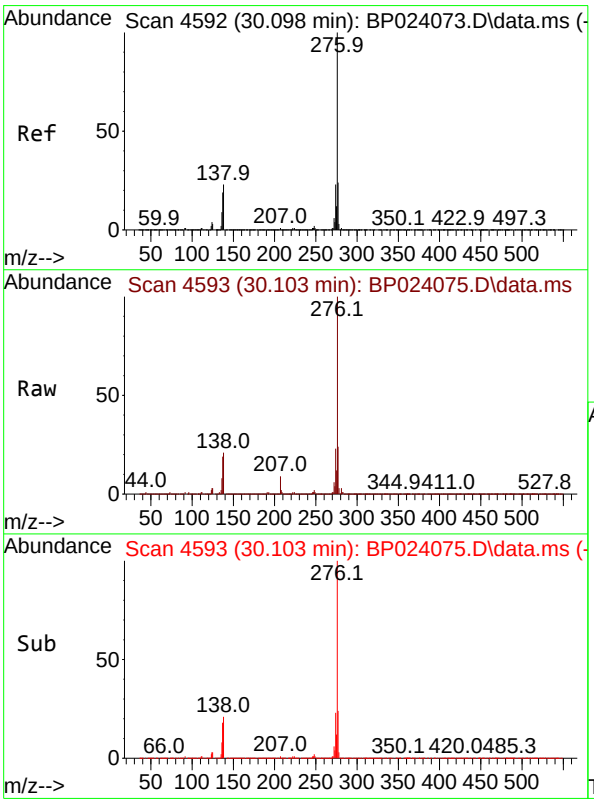
Ion	Ratio	Lower	Upper
278	100		
139	16.1	13.4	20.0
279	24.1	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

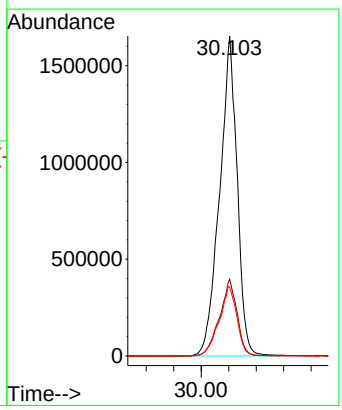
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025



#92
Benzo(g,h,i)perylene
Concen: 63.632 ng
RT: 30.103 min Scan# 4593
Delta R.T. 0.006 min
Lab File: BP024075.D
Acq: 17 Feb 2025 15:33

Tgt Ion:276 Resp: 7318545

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	21.5	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024076.D
Acq On : 17 Feb 2025 16:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Quant Time: Feb 18 02:05:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.763	152	440826	20.000	ng		0.00
21) Naphthalene-d8	10.540	136	1717544	20.000	ng		0.00
39) Acenaphthene-d10	14.404	164	1017383	20.000	ng		0.01
64) Phenanthrene-d10	17.210	188	1880174	20.000	ng		0.02
76) Chrysene-d12	21.657	240	1907821	20.000	ng		0.01
86) Perylene-d12	25.051	264	1963234	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.381	112	4655597	164.791	ng		0.00
7) Phenol-d6	6.952	99	6002030	165.296	ng		0.00
23) Nitrobenzene-d5	8.916	82	5035085	163.549	ng		0.00
42) 2,4,6-Tribromophenol	15.916	330	2360759	189.440	ng		0.01
45) 2-Fluorobiphenyl	13.004	172	11068258	152.090	ng		0.00
79) Terphenyl-d14	19.933	244	14474539	150.126	ng		0.02
Target Compounds							Qvalue
2) 1,4-Dioxane	3.311	88	859427	77.548	ng		99
3) Pyridine	3.711	79	2334890m	80.949	ng		
4) n-Nitrosodimethylamine	3.616	42	824986	80.718	ng		99
6) Aniline	7.105	93	2656296	79.881	ng		99
8) 2-Chlorophenol	7.340	128	2443568	81.718	ng		98
9) Benzaldehyde	6.910	77	889530	53.657	ng		99
10) Phenol	6.975	94	2977839	81.555	ng		99
11) bis(2-Chloroethyl)ether	7.193	93	2322121	80.745	ng		99
12) 1,3-Dichlorobenzene	7.652	146	2598604	79.104	ng		99
13) 1,4-Dichlorobenzene	7.799	146	2636240	79.353	ng		100
14) 1,2-Dichlorobenzene	8.110	146	2531681	79.406	ng		100
15) Benzyl Alcohol	8.005	79	1915885	86.198	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.281	45	2192813	78.547	ng		98
17) 2-Methylphenol	8.204	107	1882108	84.586	ng		99
18) Hexachloroethane	8.834	117	968733	80.969	ng		99
19) n-Nitroso-di-n-propyla...	8.563	70	1669495	85.513	ng		98
20) 3+4-Methylphenols	8.534	107	2589176	85.537	ng		99
22) Acetophenone	8.575	105	3570429	80.896	ng	#	99
24) Nitrobenzene	8.957	77	2449822	80.856	ng		97
25) Isophorone	9.481	82	4374356	86.888	ng		99
26) 2-Nitrophenol	9.657	139	1319705	94.542	ng		97
27) 2,4-Dimethylphenol	9.722	122	1580579	86.260	ng		100
28) bis(2-Chloroethoxy)met...	9.951	93	3026515	82.984	ng		99
29) 2,4-Dichlorophenol	10.198	162	2231559	89.241	ng		99
30) 1,2,4-Trichlorobenzene	10.404	180	2369046	82.688	ng		99
31) Naphthalene	10.593	128	7364453	79.743	ng		99
32) Benzoic acid	9.904	122	1672967	80.931	ng		100
33) 4-Chloroaniline	10.704	127	2752863	84.613	ng		99
34) Hexachlorobutadiene	10.875	225	1379105	83.106	ng		100
35) Caprolactam	11.510	113	703840	79.435	ng		100
36) 4-Chloro-3-methylphenol	11.834	107	2311777	89.930	ng		99
37) 2-Methylnaphthalene	12.204	142	5146080	83.837	ng		99
38) 1-Methylnaphthalene	12.422	142	4940197	82.731	ng		99
40) 1,2,4,5-Tetrachloroben...	12.575	216	2586924	82.756	ng		100
41) Hexachlorocyclopentadiene	12.557	237	992999	85.368	ng		99
43) 2,4,6-Trichlorophenol	12.816	196	1696965	89.015	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024076.D
Acq On : 17 Feb 2025 16:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 18 02:05:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.898	196	1846715	88.576	ng	98
46) 1,1'-Biphenyl	13.222	154	6394659	80.887	ng	99
47) 2-Chloronaphthalene	13.263	162	4837156	80.939	ng	99
48) 2-Nitroaniline	13.463	65	1272607	90.146	ng	98
49) Acenaphthylene	14.116	152	7353619	83.516	ng	99
50) Dimethylphthalate	13.857	163	6052388	84.337	ng	99
51) 2,6-Dinitrotoluene	13.975	165	1294392	88.544	ng	98
52) Acenaphthene	14.463	154	4649176	81.994	ng	99
53) 3-Nitroaniline	14.316	138	1422235	91.172	ng	97
54) 2,4-Dinitrophenol	14.516	184	785416	81.347	ng	94
55) Dibenzofuran	14.810	168	7468385	81.080	ng	100
56) 4-Nitrophenol	14.639	139	1213890	90.085	ng	98
57) 2,4-Dinitrotoluene	14.775	165	1792037	94.366	ng	95
58) Fluorene	15.463	166	5910096	82.157	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.039	232	1614821	89.273	ng	99
60) Diethylphthalate	15.245	149	6085270	85.419	ng	99
61) 4-Chlorophenyl-phenyle...	15.463	204	2961695	83.644	ng	99
62) 4-Nitroaniline	15.492	138	1499607	78.926	ng	98
63) Azobenzene	15.763	77	5508202	82.511	ng	97
65) 4,6-Dinitro-2-methylph...	15.551	198	1038934	81.263	ng	92
66) n-Nitrosodiphenylamine	15.686	169	4967720	84.726	ng	100
67) 4-Bromophenyl-phenylether	16.375	248	1866041	88.382	ng	96
68) Hexachlorobenzene	16.498	284	2109681	84.918	ng	99
69) Atrazine	16.657	200	1080242	71.792	ng	98
70) Pentachlorophenol	16.857	266	1500010	92.962	ng	99
71) Phenanthrene	17.257	178	8626273	81.379	ng	98
72) Anthracene	17.339	178	8443057	83.116	ng	99
73) Carbazole	17.628	167	8103491	83.727	ng	99
74) Di-n-butylphthalate	18.222	149	9961935	88.213	ng	99
75) Fluoranthene	19.333	202	9785487	81.616	ng	98
77) Benzidine	19.527	184	3764560	161.931	ng	100
78) Pyrene	19.710	202	10143263	83.702	ng	98
80) Butylbenzylphthalate	20.669	149	4453020	95.894	ng	91
81) Benzo(a)anthracene	21.639	228	9880066	82.588	ng	98
82) 3,3'-Dichlorobenzidine	21.569	252	3709136	99.221	ng	99
83) Chrysene	21.710	228	9516779	82.499	ng	99
84) Bis(2-ethylhexyl)phtha...	21.580	149	6676000	94.805	ng	97
85) Di-n-octyl phthalate	22.880	149	10807777	96.020	ng	98
87) Indeno(1,2,3-cd)pyrene	28.915	276	12121784m	86.749	ng	
88) Benzo(b)fluoranthene	23.968	252	10643647	85.374	ng	99
89) Benzo(k)fluoranthene	24.045	252	10206417	84.108	ng	99
90) Benzo(a)pyrene	24.886	252	9312588	88.018	ng	99
91) Dibenzo(a,h)anthracene	28.986	278	10132027	86.278	ng	98
92) Benzo(g,h,i)perylene	30.097	276	10157572	85.238	ng	99

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

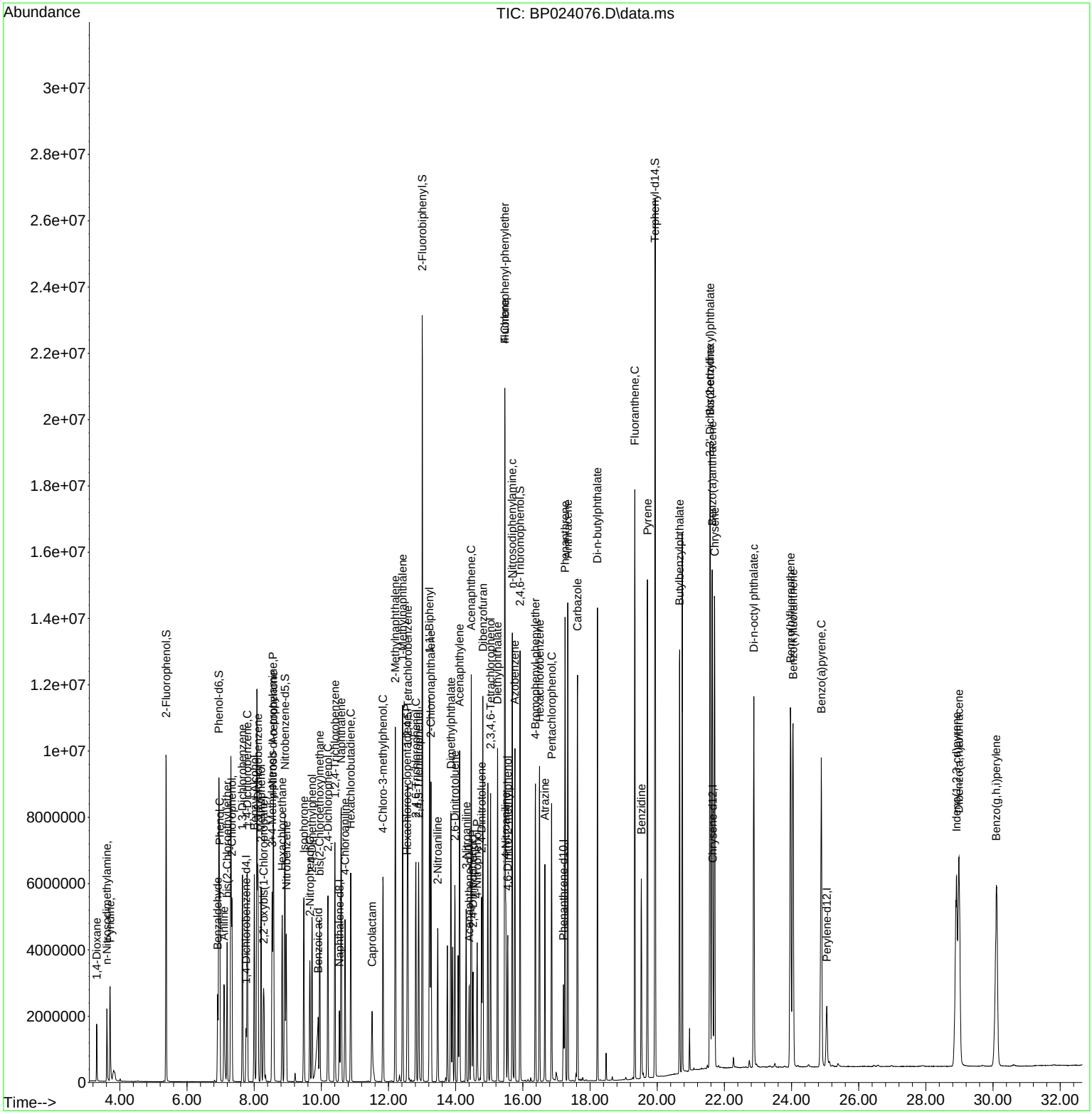
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024076.D
Acq On : 17 Feb 2025 16:14
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

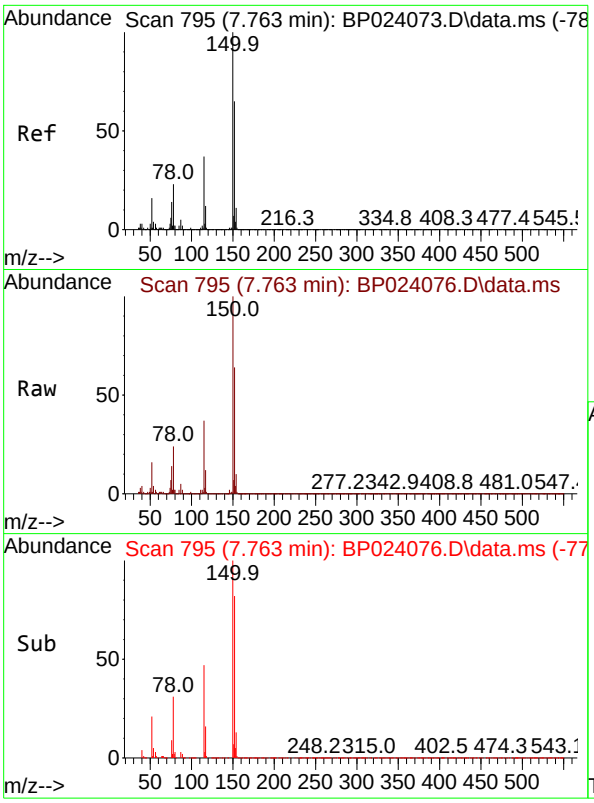
Quant Time: Feb 18 02:05:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 01:47:18 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

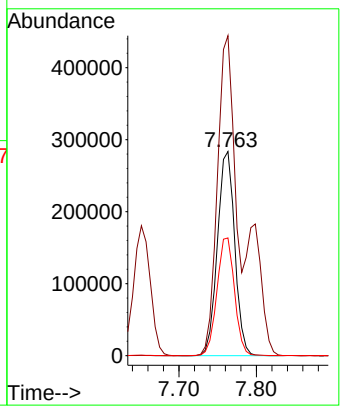




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:152 Resp: 44082

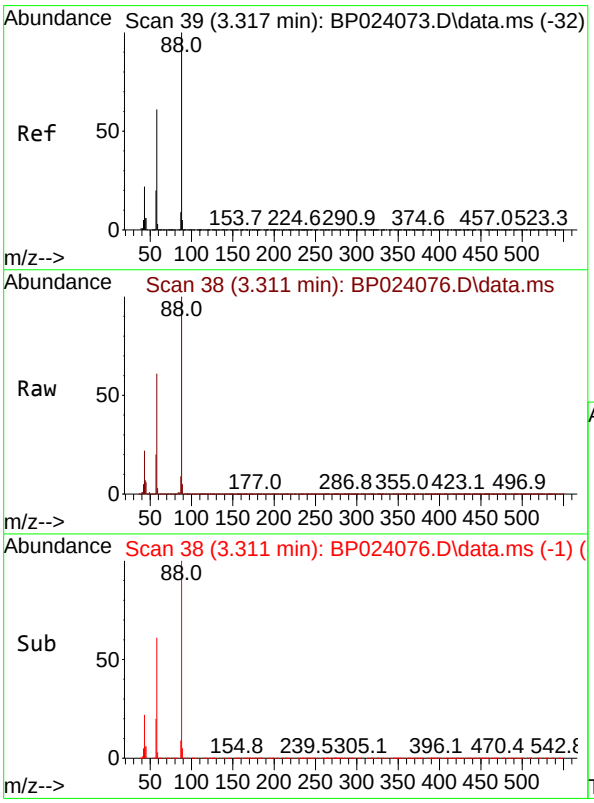
Ion	Ratio	Lower	Upper
152	100		
150	156.7	122.4	183.6
115	57.7	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

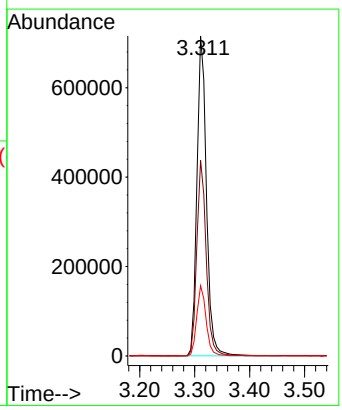
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

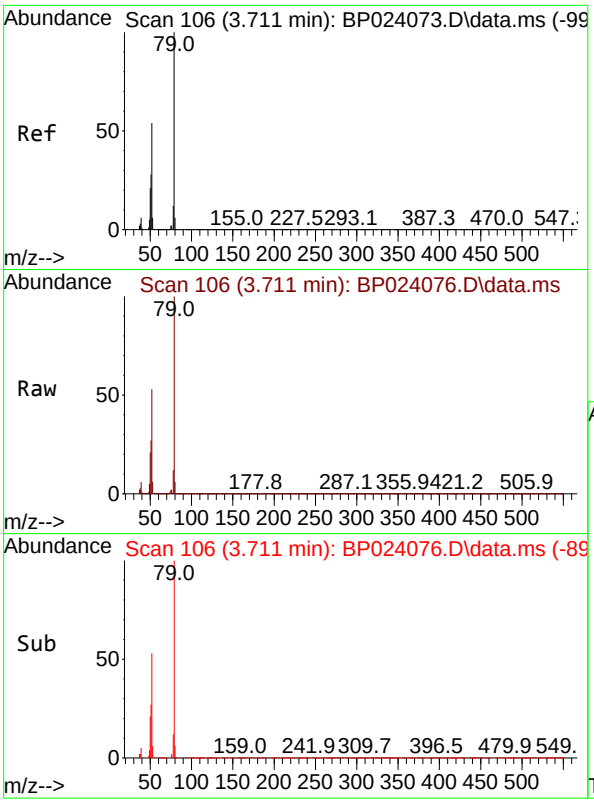


#2
1,4-Dioxane
Concen: 77.548 ng
RT: 3.311 min Scan# 38
Delta R.T. -0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 88 Resp: 859427

Ion	Ratio	Lower	Upper
88	100		
58	60.9	49.1	73.7
43	21.9	18.0	27.0

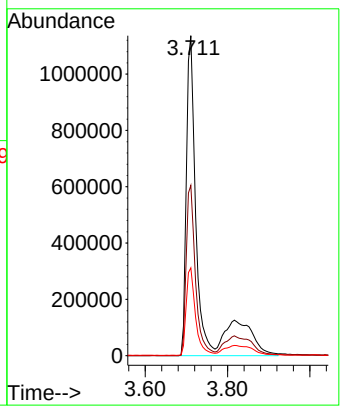




#3
Pyridine
Concen: 80.949 ng m
RT: 3.711 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 79 Resp: 233489(

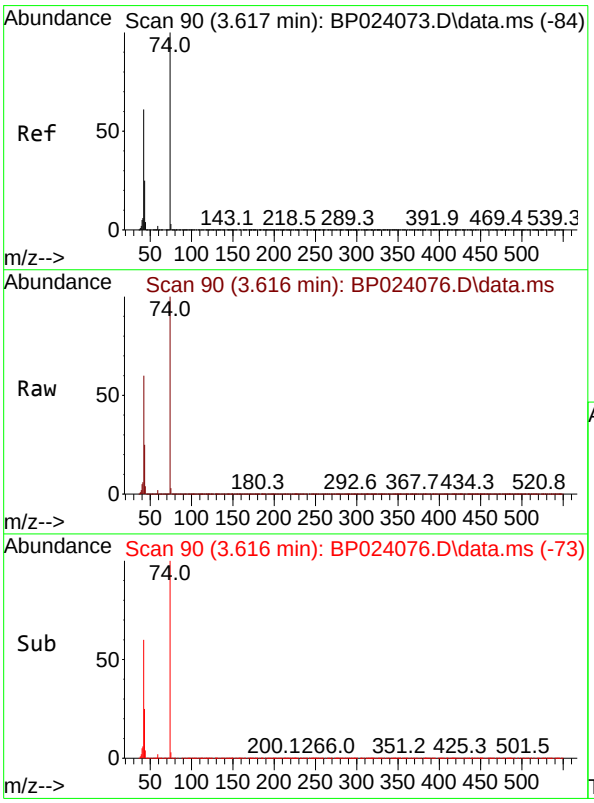
Ion	Ratio	Lower	Upper
79	100		
52	53.2	43.5	65.3
51	27.5	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

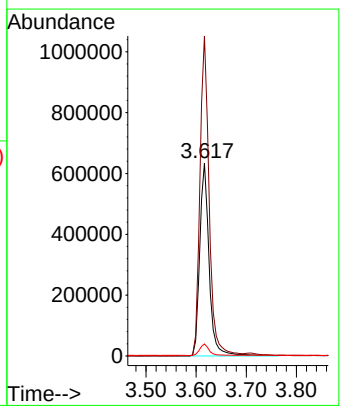
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

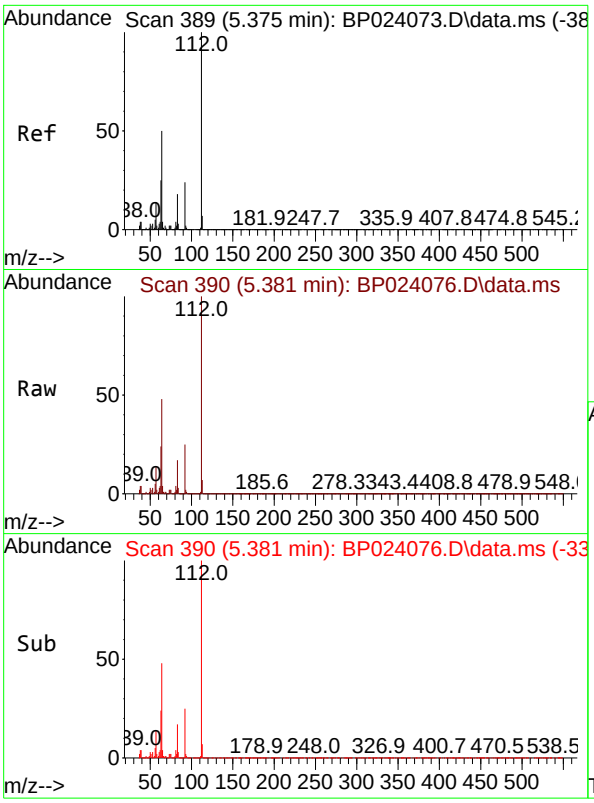


#4
n-Nitrosodimethylamine
Concen: 80.718 ng
RT: 3.616 min Scan# 90
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 42 Resp: 824986

Ion	Ratio	Lower	Upper
42	100		
74	165.9	132.0	198.0
44	6.2	5.3	7.9

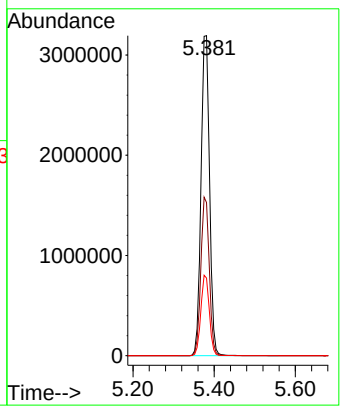




#5
2-Fluorophenol
Concen: 164.791 ng
RT: 5.381 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:112 Resp: 465559

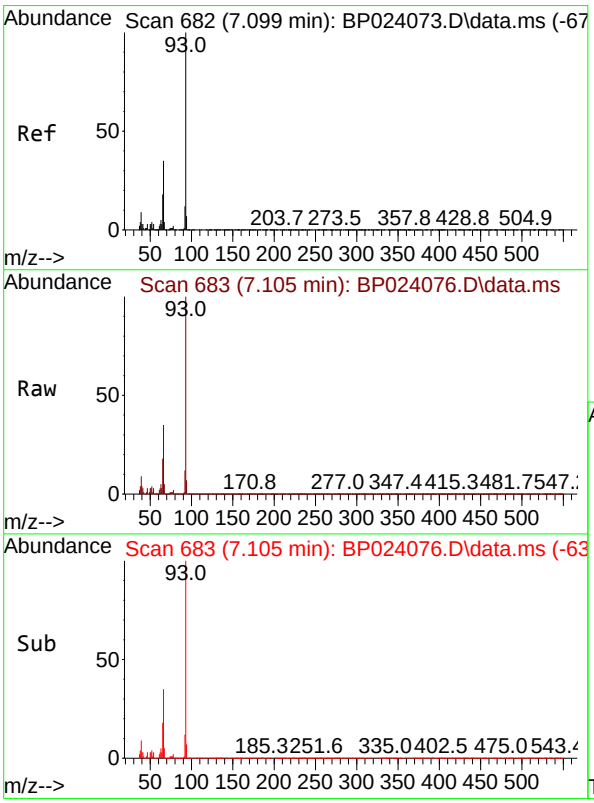
Ion	Ratio	Lower	Upper
112	100		
64	47.9	39.6	59.4
63	24.3	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

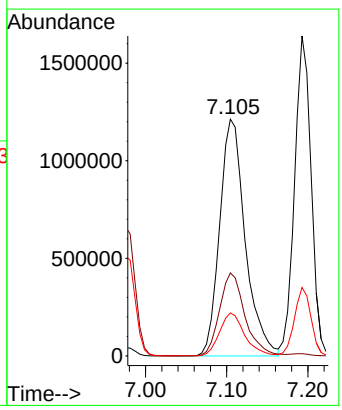
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

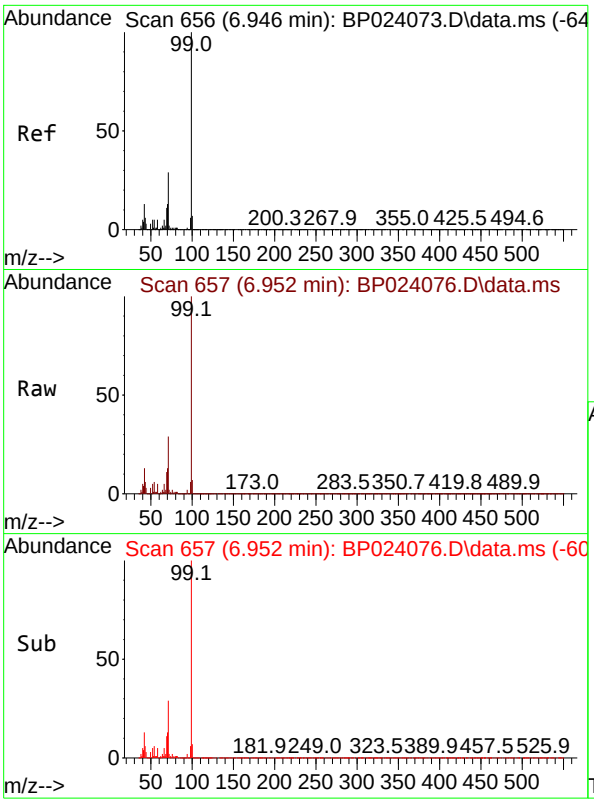


#6
Aniline
Concen: 79.881 ng
RT: 7.105 min Scan# 683
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 93 Resp: 2656296

Ion	Ratio	Lower	Upper
93	100		
66	35.0	28.2	42.4
65	18.2	14.1	21.1

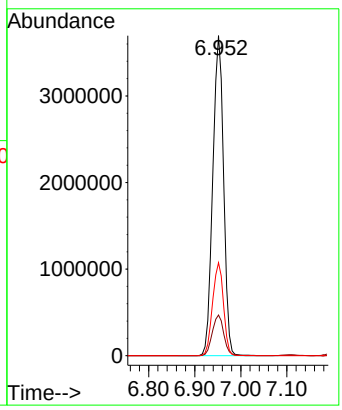




#7
Phenol-d6
Concen: 165.296 ng
RT: 6.952 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 99 Resp: 600203

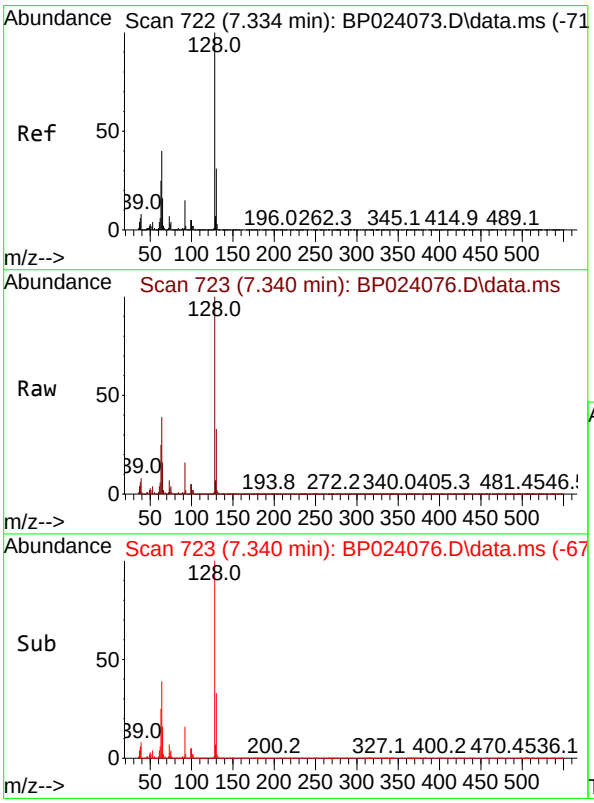
Ion	Ratio	Lower	Upper
99	100		
42	12.7	10.3	15.5
71	29.0	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

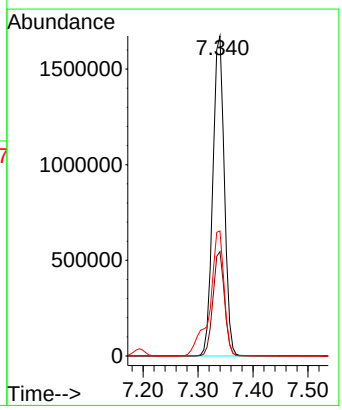
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

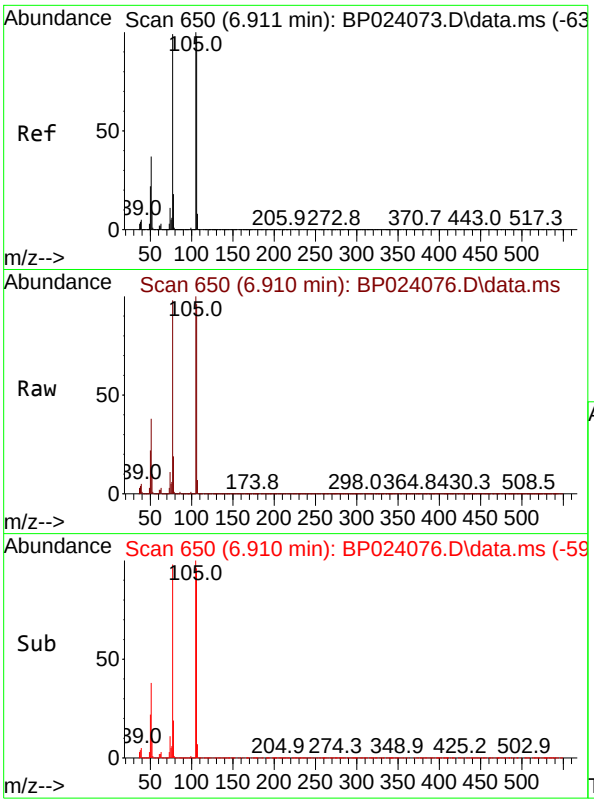


#8
2-Chlorophenol
Concen: 81.718 ng
RT: 7.340 min Scan# 723
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:128 Resp: 2443568

Ion	Ratio	Lower	Upper
128	100		
130	32.6	11.5	51.5
64	39.1	19.8	59.8

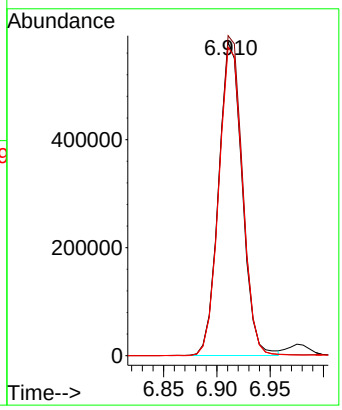




#9
Benzaldehyde
Concen: 53.657 ng
RT: 6.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 77 Resp: 88953

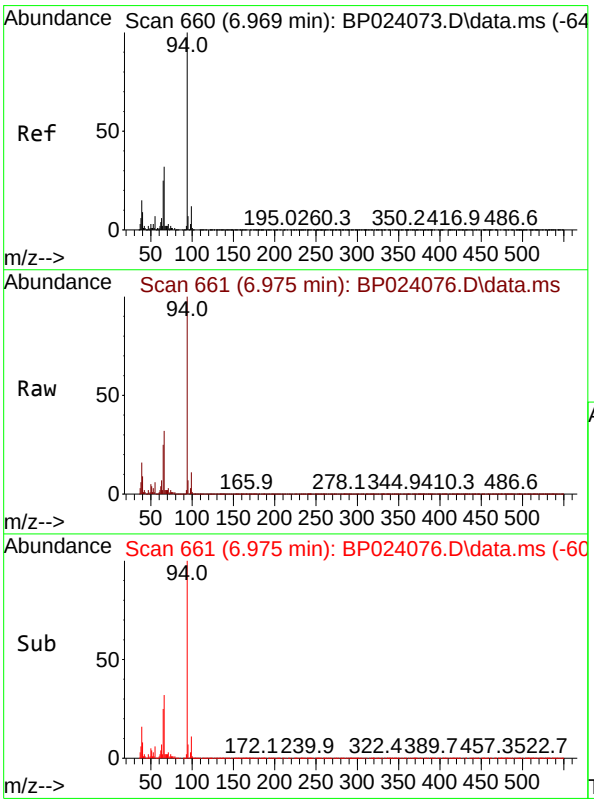
Ion	Ratio	Lower	Upper
77	100		
105	102.1	81.4	121.4
106	98.4	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

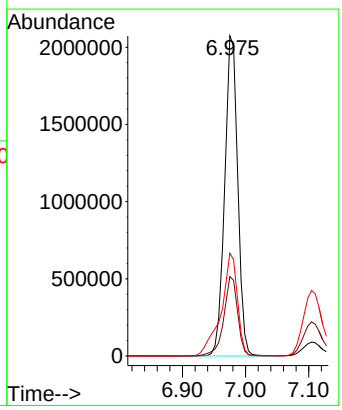
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

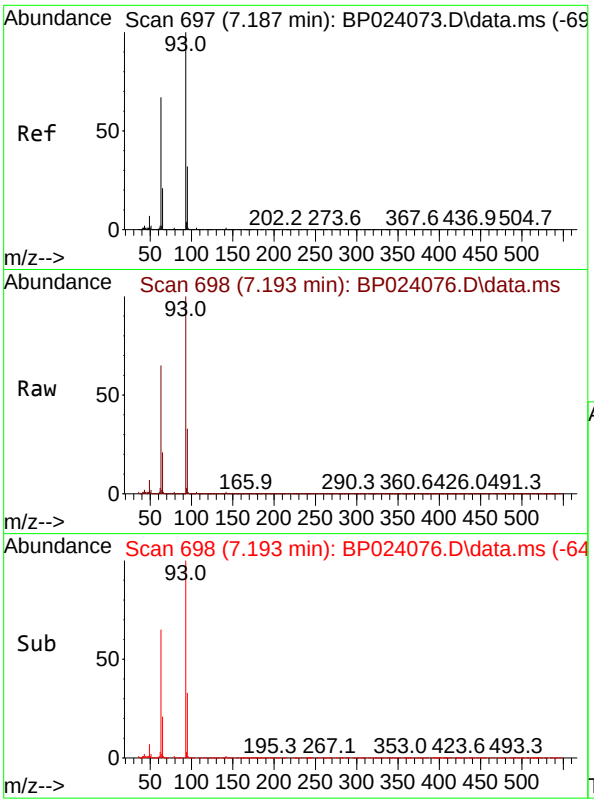


#10
Phenol
Concen: 81.555 ng
RT: 6.975 min Scan# 661
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 94 Resp: 2977839

Ion	Ratio	Lower	Upper
94	100		
65	24.8	5.0	45.0
66	32.1	11.6	51.6

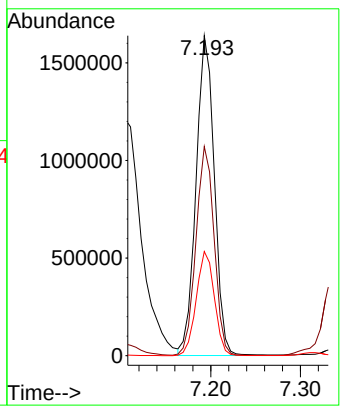




#11
bis(2-Chloroethyl)ether
Concen: 80.745 ng
RT: 7.193 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 93 Resp: 232212

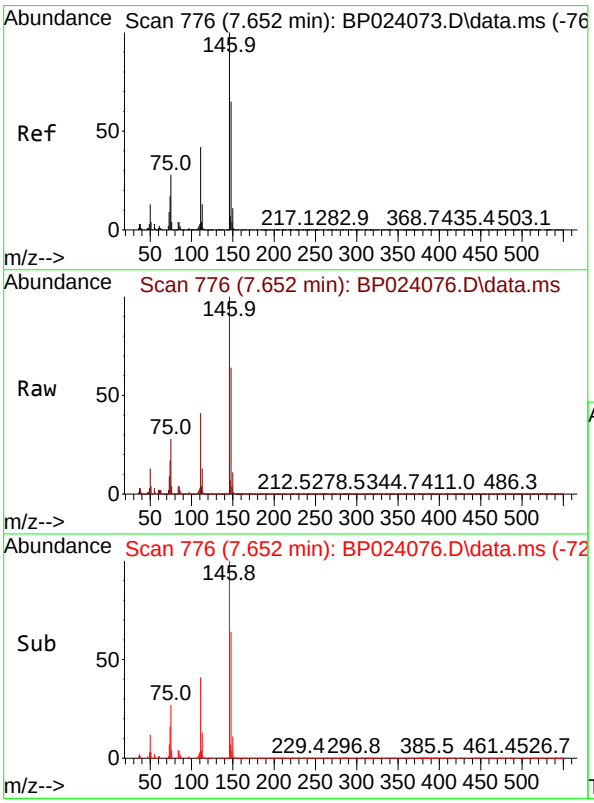
Ion	Ratio	Lower	Upper
93	100		
63	65.4	46.5	86.5
95	32.5	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

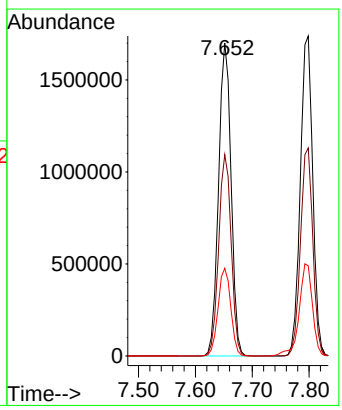
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

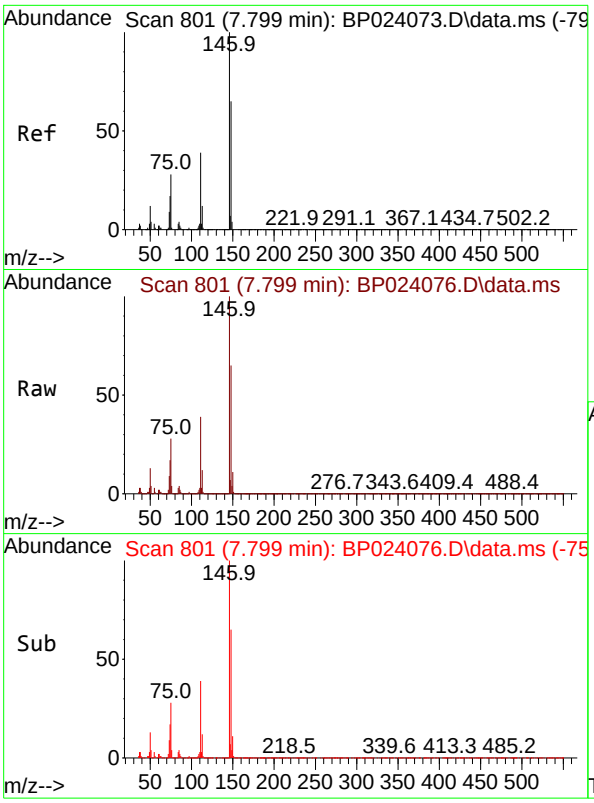


#12
1,3-Dichlorobenzene
Concen: 79.104 ng
RT: 7.652 min Scan# 776
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:146 Resp: 2598604

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.8	77.8
75	28.0	22.6	33.8

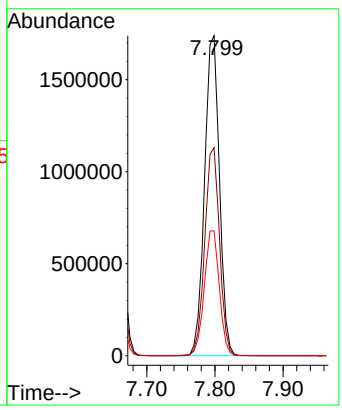




#13
1,4-Dichlorobenzene
Concen: 79.353 ng
RT: 7.799 min Scan# 8(
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:146 Resp: 263624(

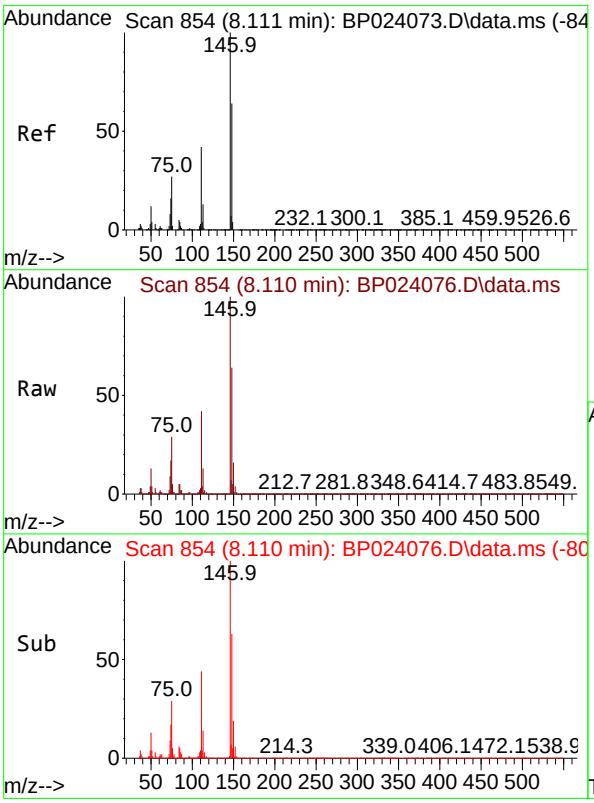
Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.6	77.4
111	39.0	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

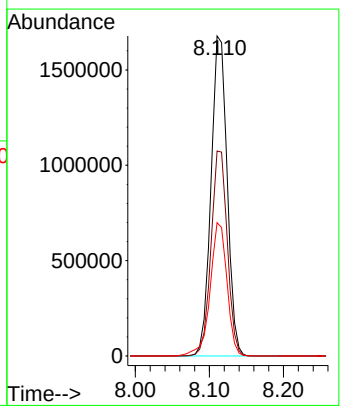
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

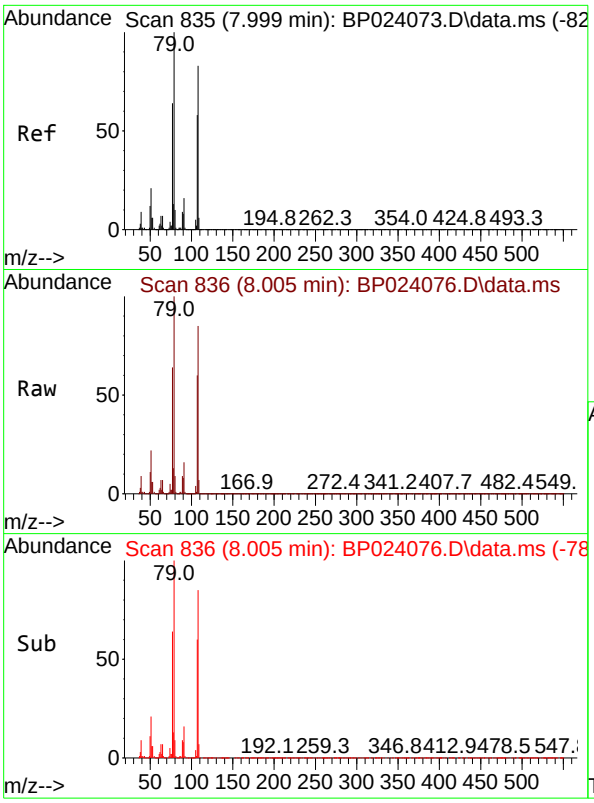


#14
1,2-Dichlorobenzene
Concen: 79.406 ng
RT: 8.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:146 Resp: 2531681

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.2	76.8
111	41.6	33.4	50.0





#15
Benzyl Alcohol
Concen: 86.198 ng
RT: 8.005 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

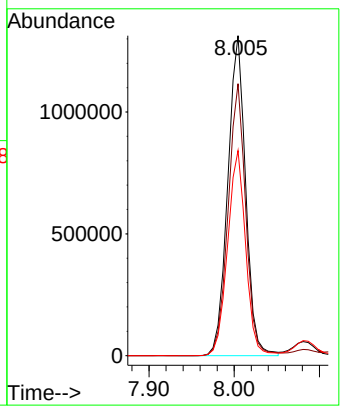
Tgt Ion: 79 Resp: 191588

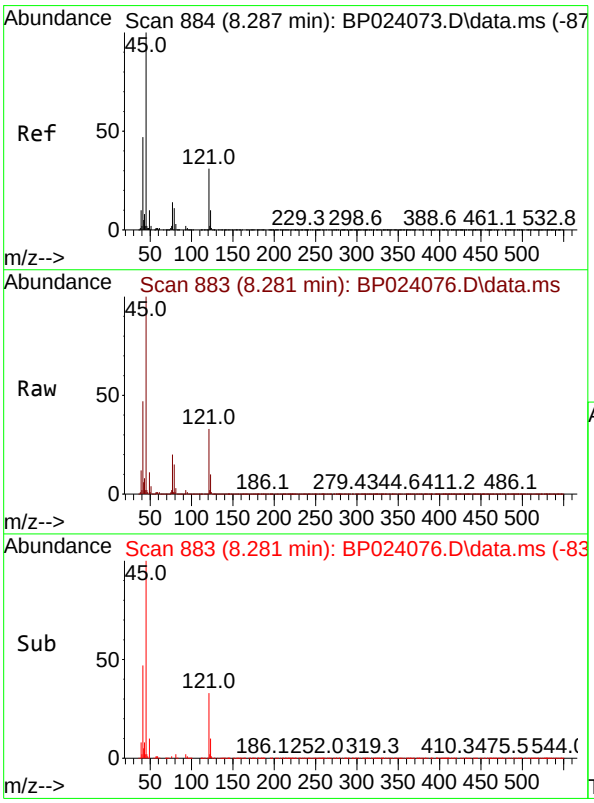
Ion	Ratio	Lower	Upper
79	100		
108	85.0	66.4	99.6
77	64.1	51.3	76.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

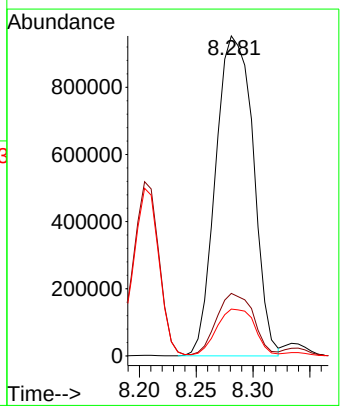


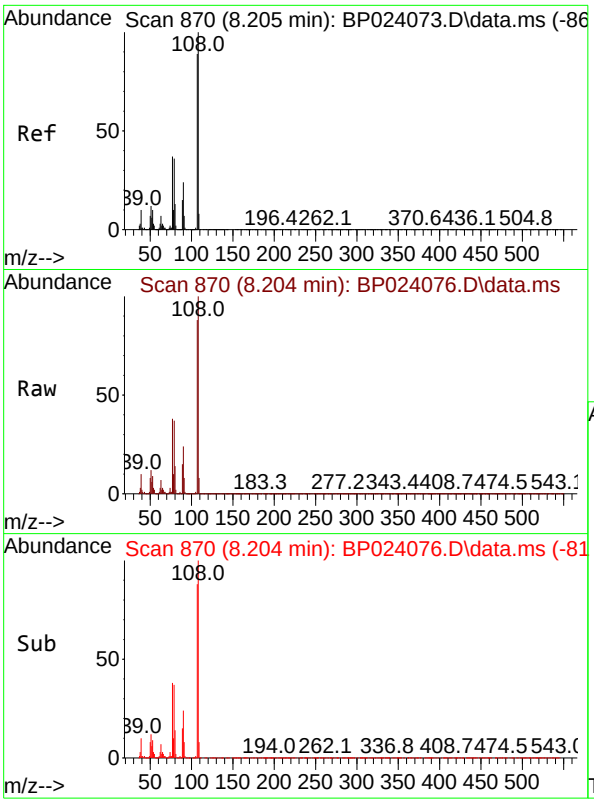


#16
2,2'-oxybis(1-Chloropropane)
Concen: 78.547 ng
RT: 8.281 min Scan# 883
Delta R.T. -0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 45 Resp: 2192813

Ion	Ratio	Lower	Upper
45	100		
77	19.6	0.0	38.8
79	14.7	0.0	35.4

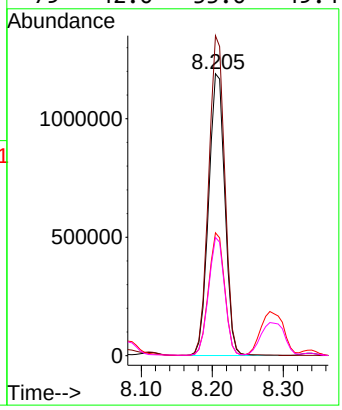




#17
2-Methylphenol
Concen: 84.586 ng
RT: 8.204 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:107 Resp: 188210

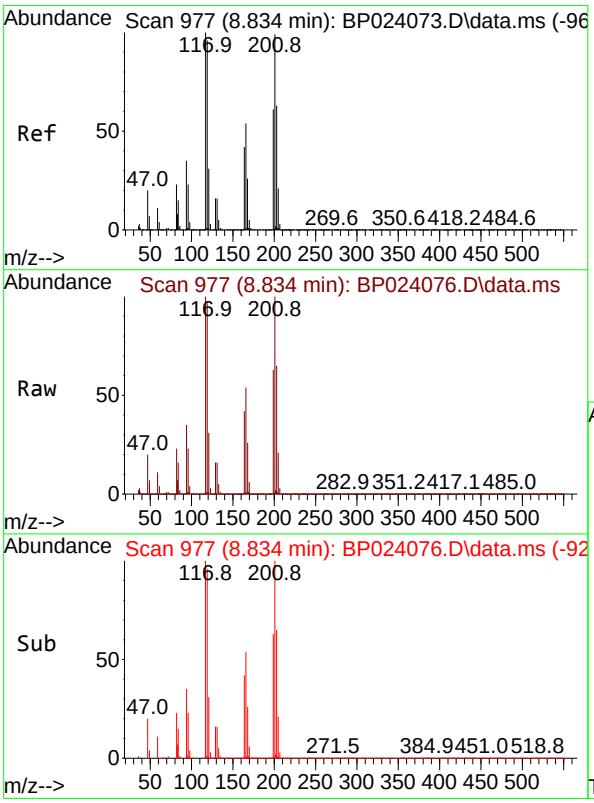
Ion	Ratio	Lower	Upper
107	100		
108	113.5	90.0	135.0
77	43.6	33.8	50.6
79	42.0	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

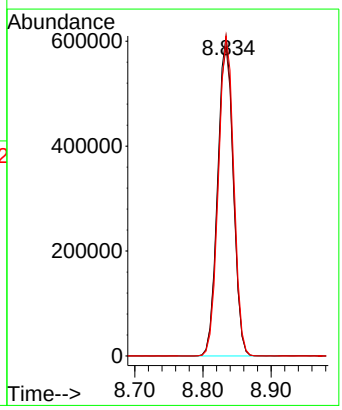
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

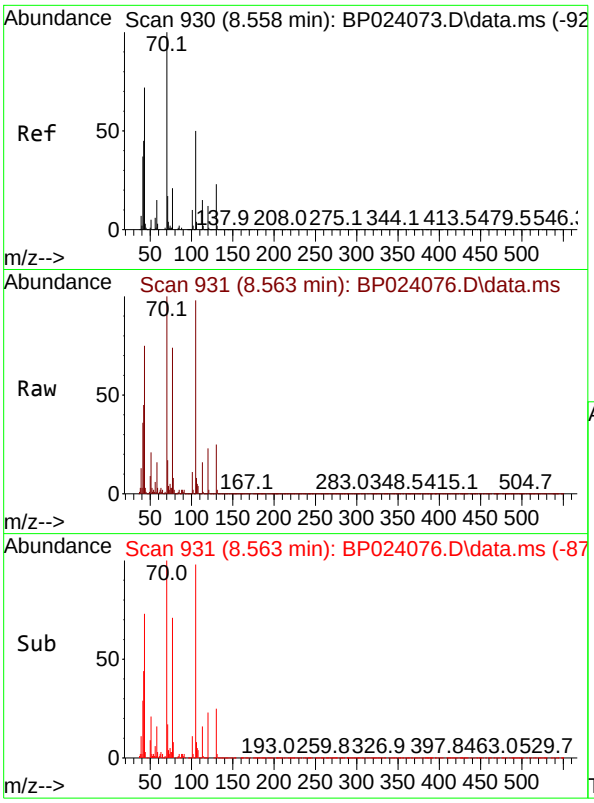


#18
Hexachloroethane
Concen: 80.969 ng
RT: 8.834 min Scan# 977
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:117 Resp: 968733

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.9	115.3
201	100.2	79.4	119.2

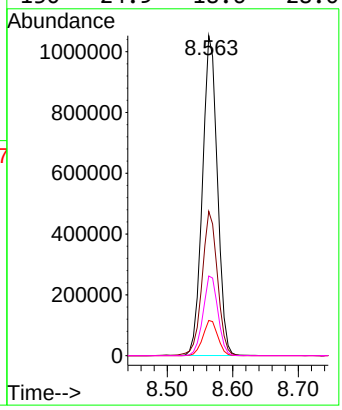




#19
n-Nitroso-di-n-propylamine
Concen: 85.513 ng
RT: 8.563 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 70 Resp: 166949

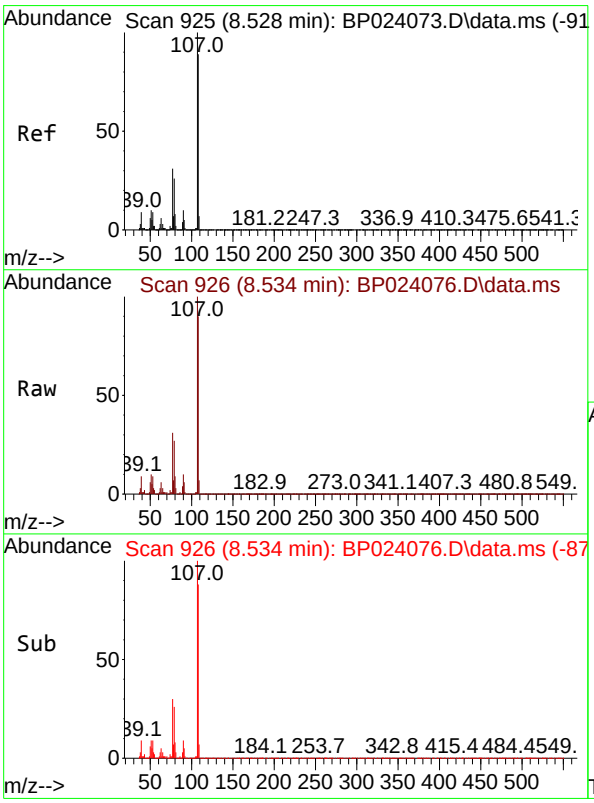
Ion	Ratio	Lower	Upper
70	100		
42	45.1	36.6	54.8
101	11.0	8.2	12.2
130	24.9	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

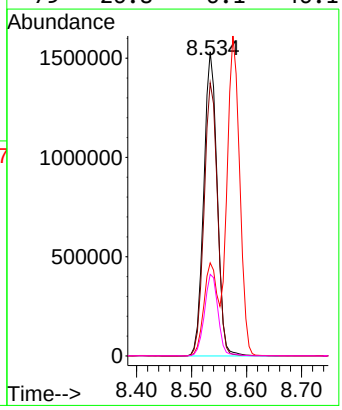
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

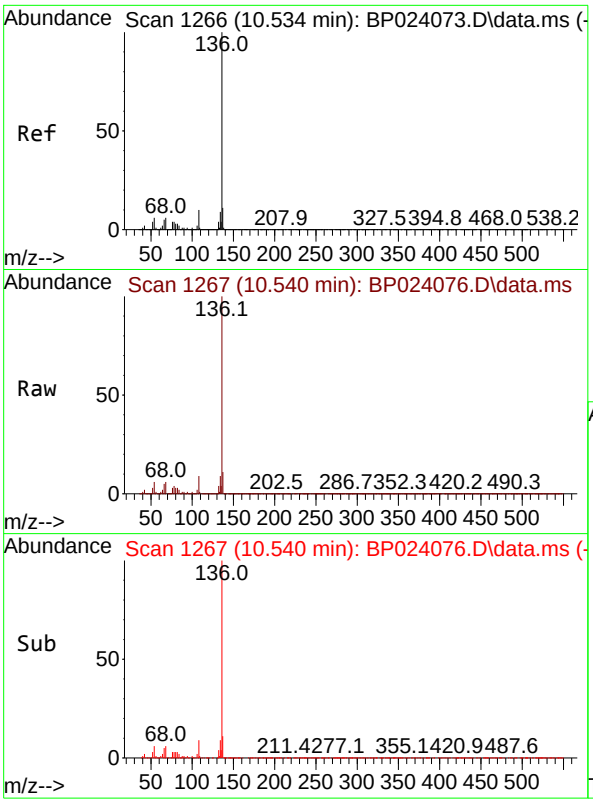


#20
3+4-Methylphenols
Concen: 85.537 ng
RT: 8.534 min Scan# 926
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:107 Resp: 2589176

Ion	Ratio	Lower	Upper
107	100		
108	89.8	68.5	108.5
77	30.6	10.7	50.7
79	26.8	6.1	46.1

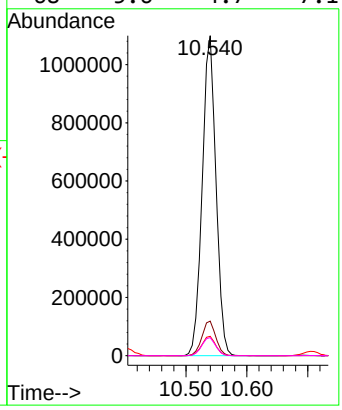




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:136 Resp: 171754

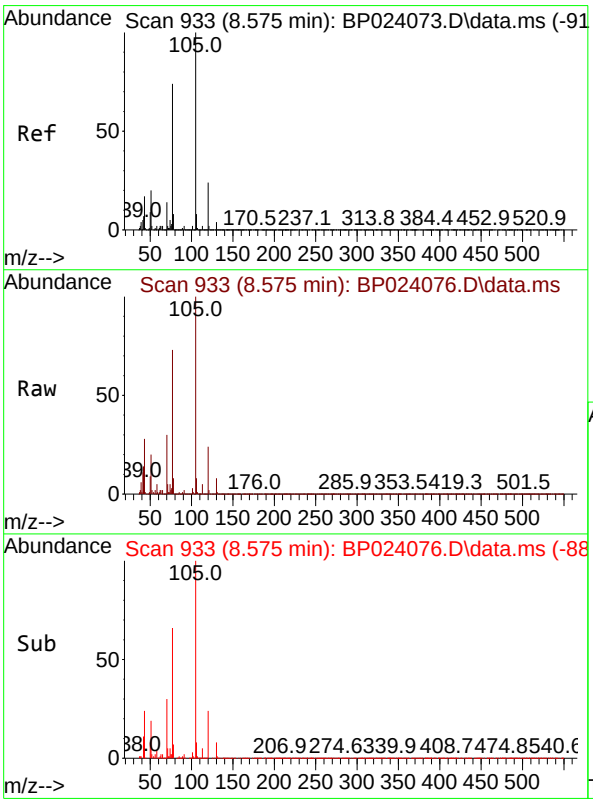
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.7	13.1
54	6.1	4.9	7.3
68	5.6	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

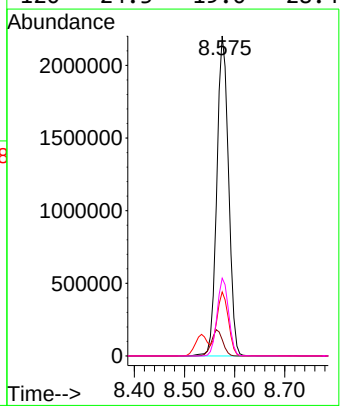
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

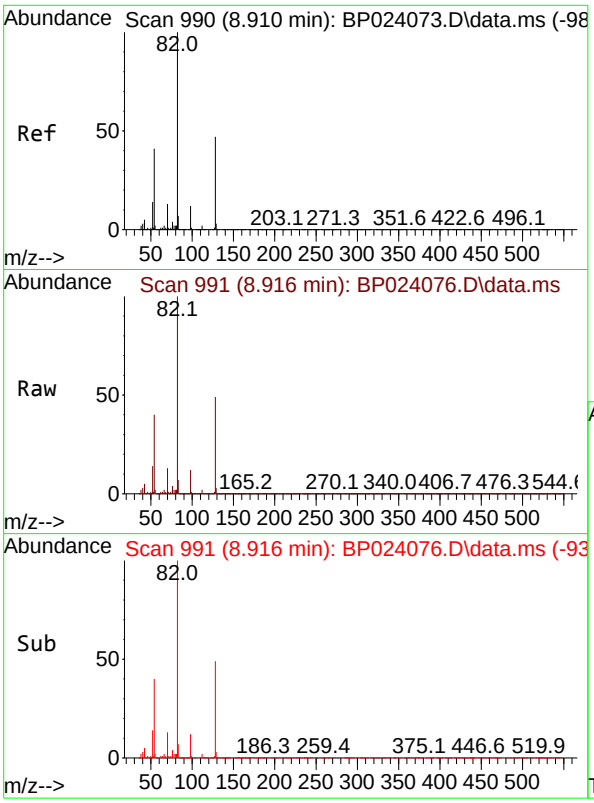


#22
Acetophenone
Concen: 80.896 ng
RT: 8.575 min Scan# 933
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:105 Resp: 3570429

Ion	Ratio	Lower	Upper
105	100		
71	5.1	1.9	2.9#
51	20.0	16.3	24.5
120	24.3	19.0	28.4

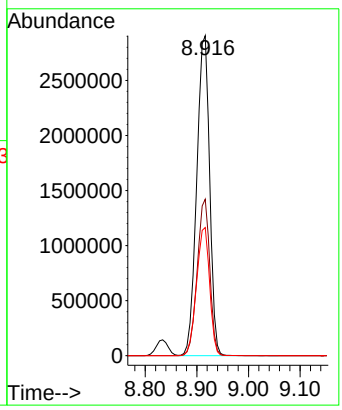




#23
Nitrobenzene-d5
Concen: 163.549 ng
RT: 8.916 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 82 Resp: 503508

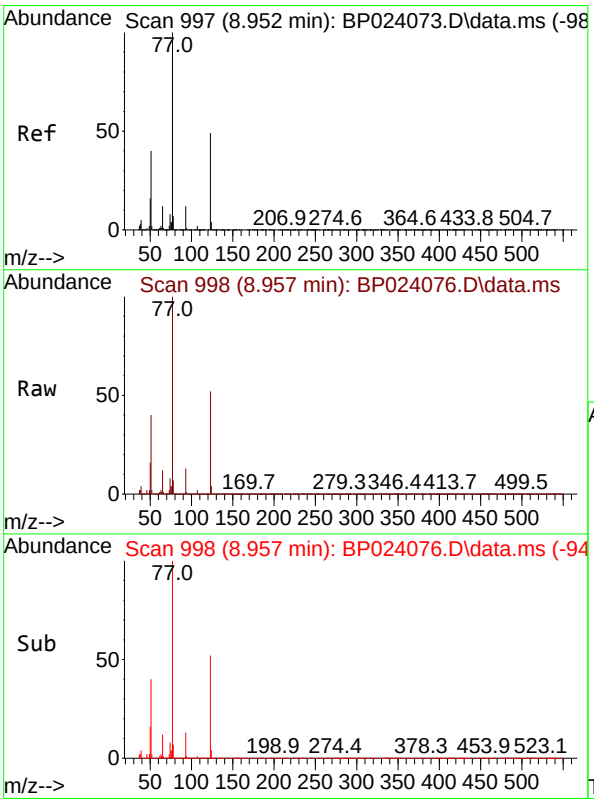
Ion	Ratio	Lower	Upper
82	100		
128	48.9	37.4	56.2
54	40.0	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

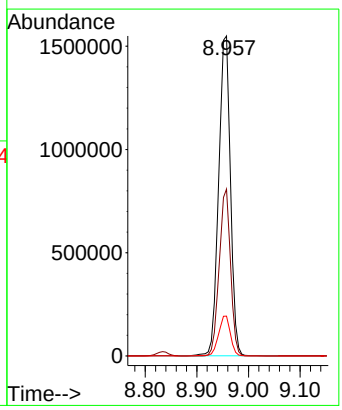
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

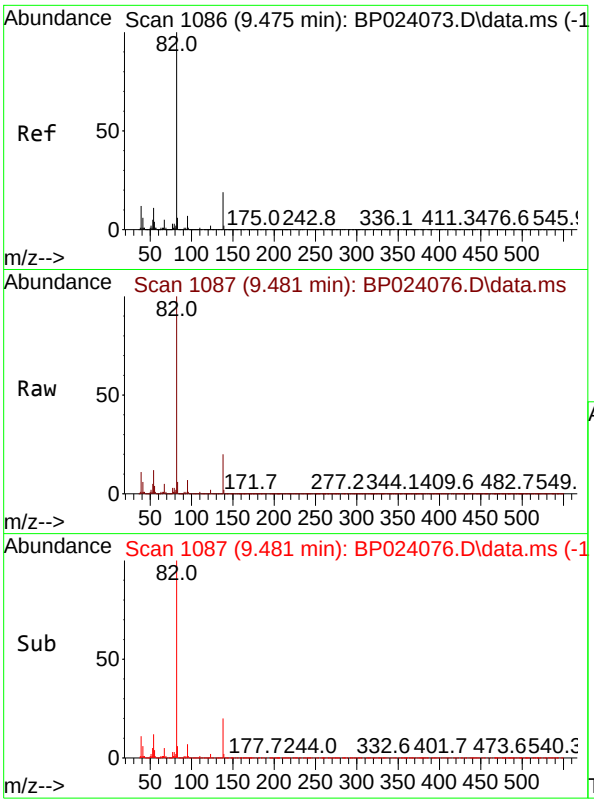


#24
Nitrobenzene
Concen: 80.856 ng
RT: 8.957 min Scan# 998
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 77 Resp: 2449822

Ion	Ratio	Lower	Upper
77	100		
123	52.2	39.4	59.2
65	12.4	9.9	14.9

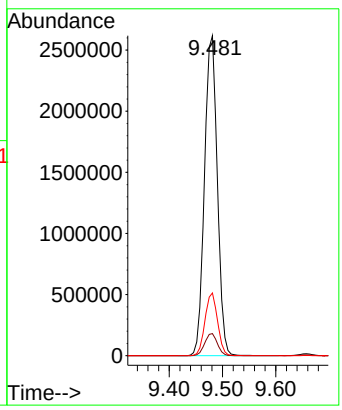




#25
Isophorone
Concen: 86.888 ng
RT: 9.481 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 82 Resp: 437435

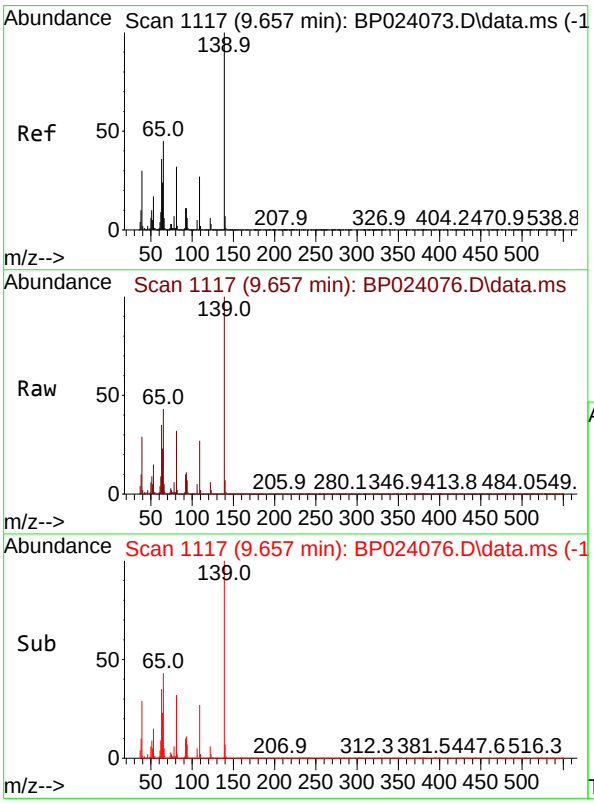
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.0
138	19.6	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

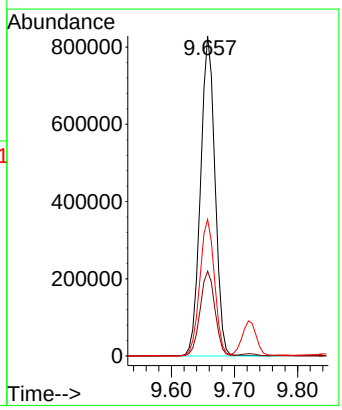
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

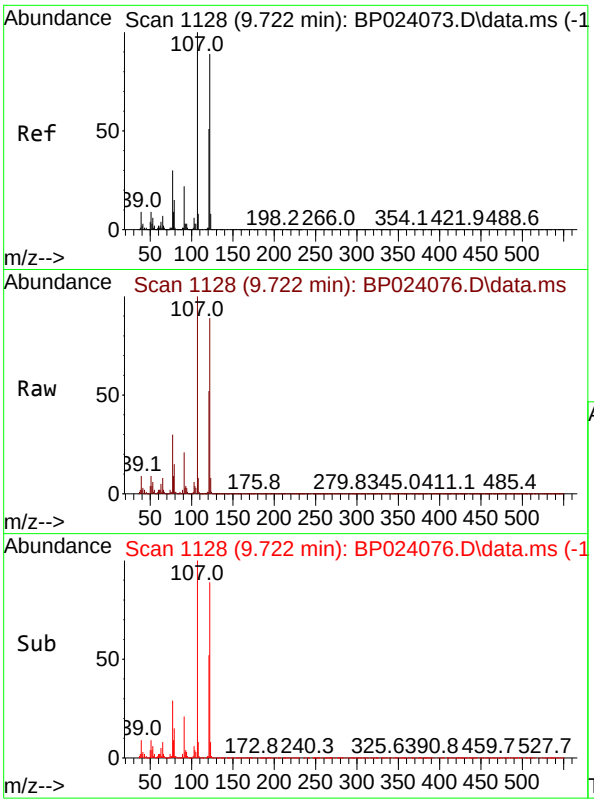


#26
2-Nitrophenol
Concen: 94.542 ng
RT: 9.657 min Scan# 1117
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:139 Resp: 1319705

Ion	Ratio	Lower	Upper
139	100		
109	26.5	21.7	32.5
65	42.6	36.1	54.1

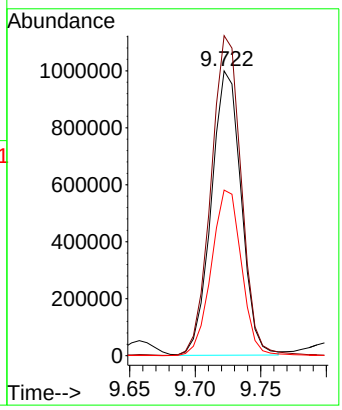




#27
2,4-Dimethylphenol
Concen: 86.260 ng
RT: 9.722 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:122 Resp: 158057

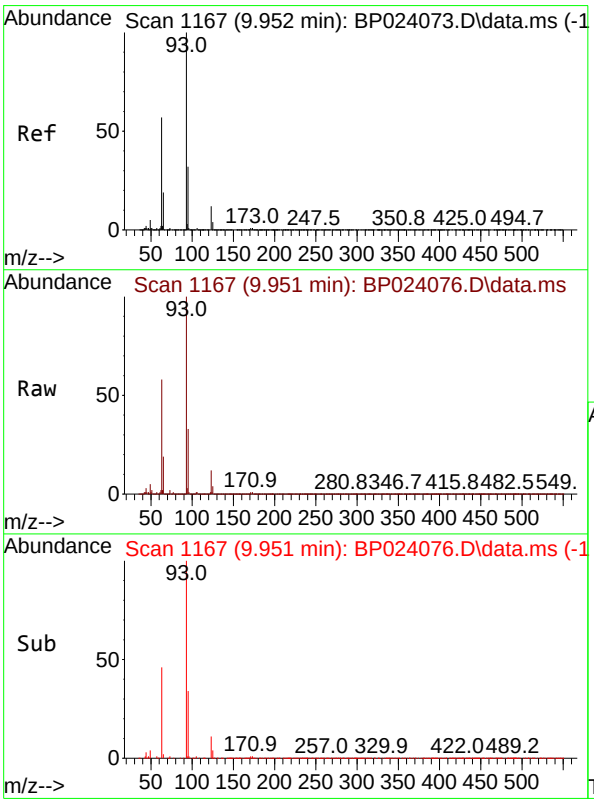
Ion	Ratio	Lower	Upper
122	100		
107	112.4	89.8	134.8
121	58.1	45.9	68.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

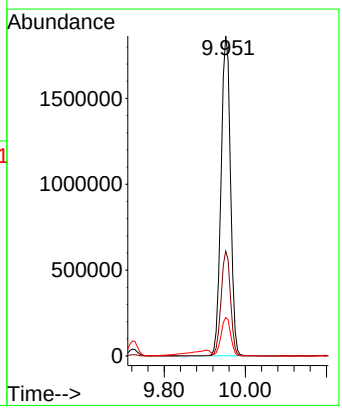
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

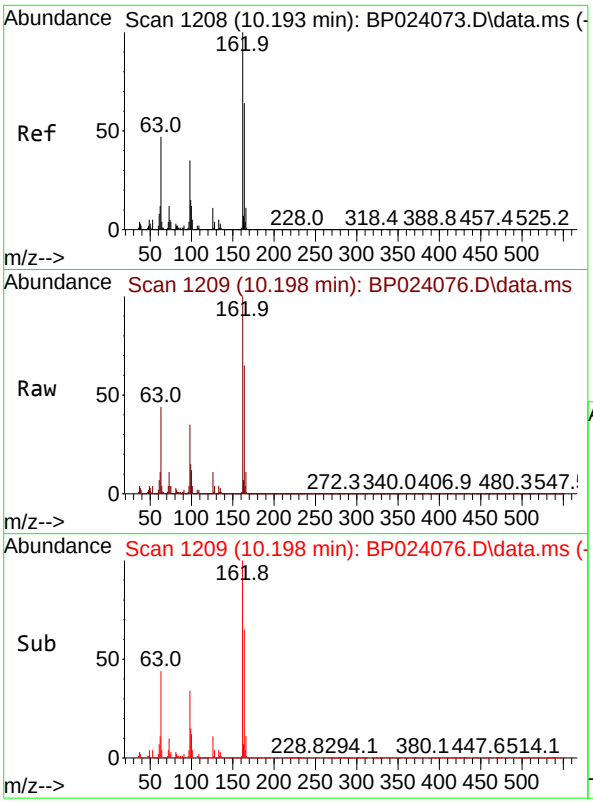


#28
bis(2-Chloroethoxy)methane
Concen: 82.984 ng
RT: 9.951 min Scan# 1167
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 93 Resp: 3026515

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.9	38.9
123	12.0	9.7	14.5

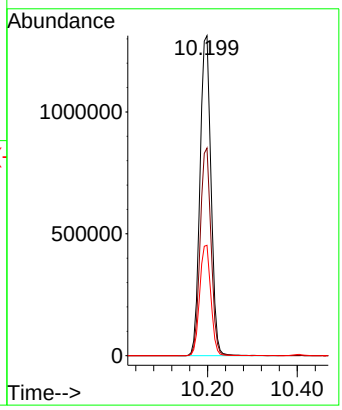




#29
2,4-Dichlorophenol
Concen: 89.241 ng
RT: 10.198 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:162 Resp: 223155

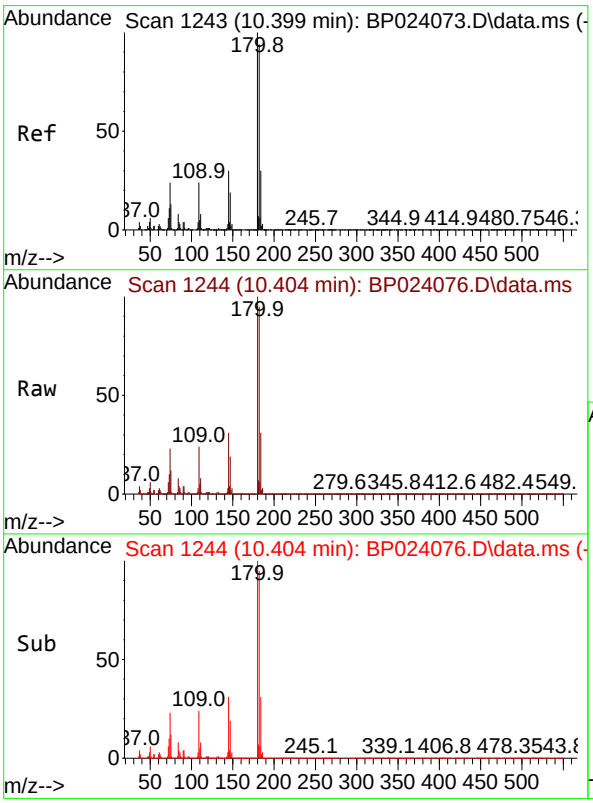
Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.5	84.5
98	34.5	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

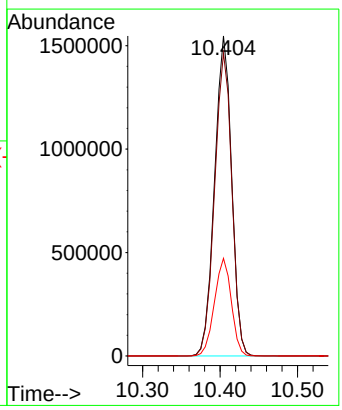
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

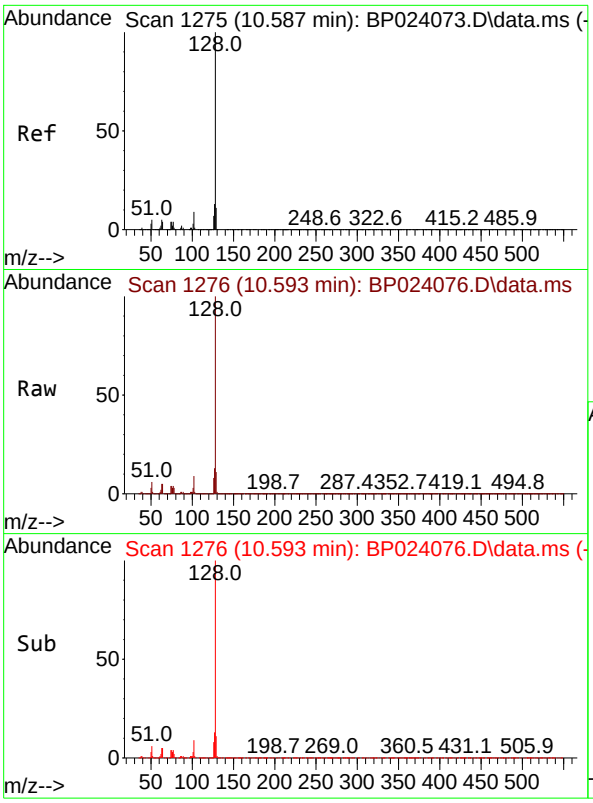


#30
1,2,4-Trichlorobenzene
Concen: 82.688 ng
RT: 10.404 min Scan# 1244
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:180 Resp: 2369046

Ion	Ratio	Lower	Upper
180	100		
182	94.7	75.4	113.2
145	30.5	24.0	36.0

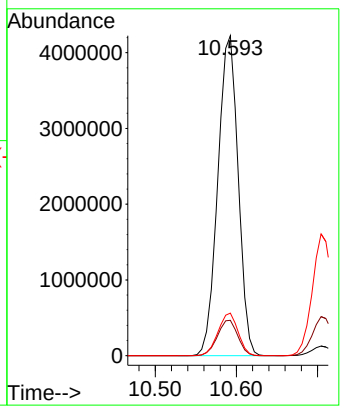




#31
Naphthalene
Concen: 79.743 ng
RT: 10.593 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:128 Resp: 736445

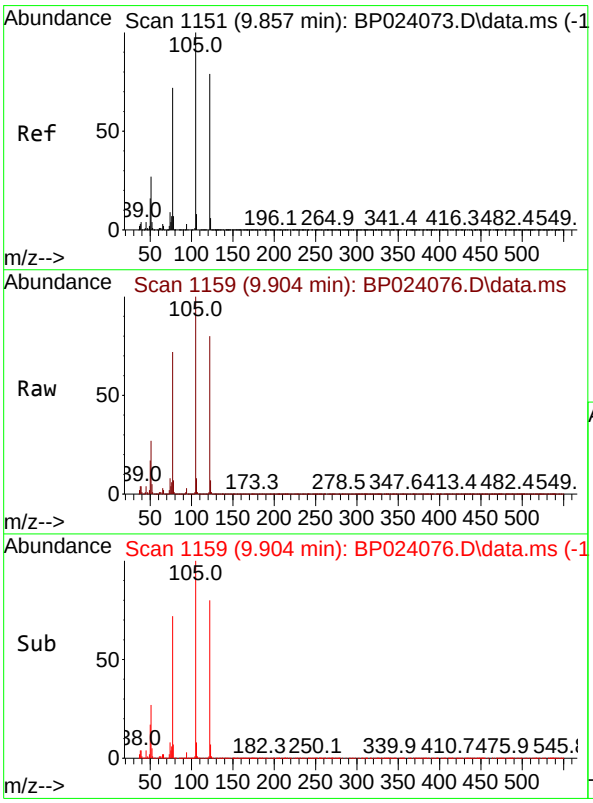
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.3	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

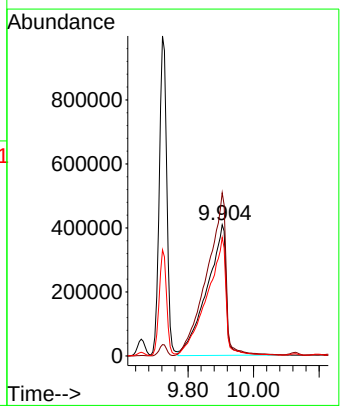
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

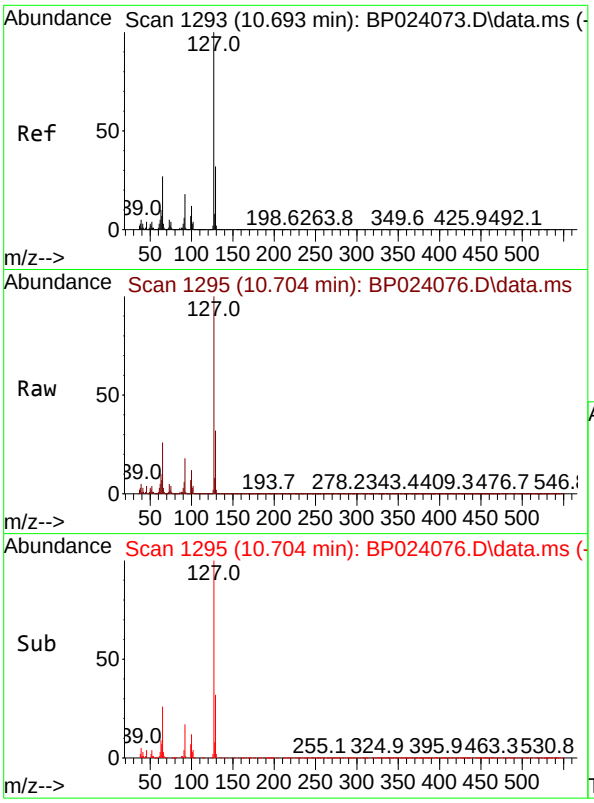


#32
Benzoic acid
Concen: 80.931 ng
RT: 9.904 min Scan# 1159
Delta R.T. 0.047 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:122 Resp: 1672967

Ion	Ratio	Lower	Upper
122	100		
105	124.4	103.7	143.7
77	90.2	69.9	109.9

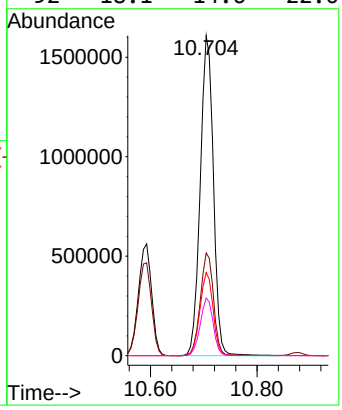




#33
4-Chloroaniline
Concen: 84.613 ng
RT: 10.704 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:127 Resp: 275286

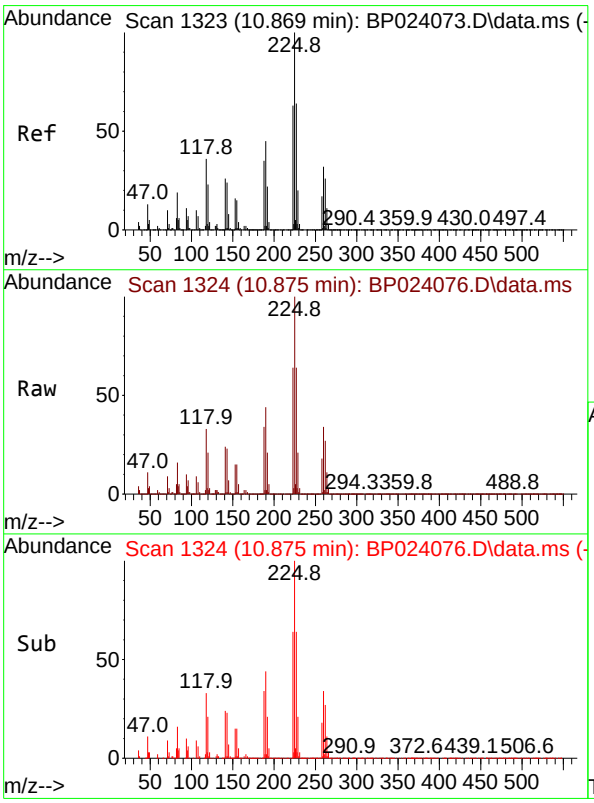
Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.4	38.0
65	26.0	21.3	31.9
92	18.1	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

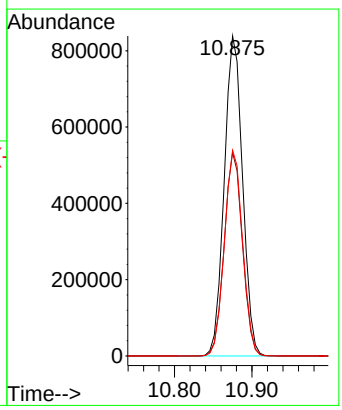
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

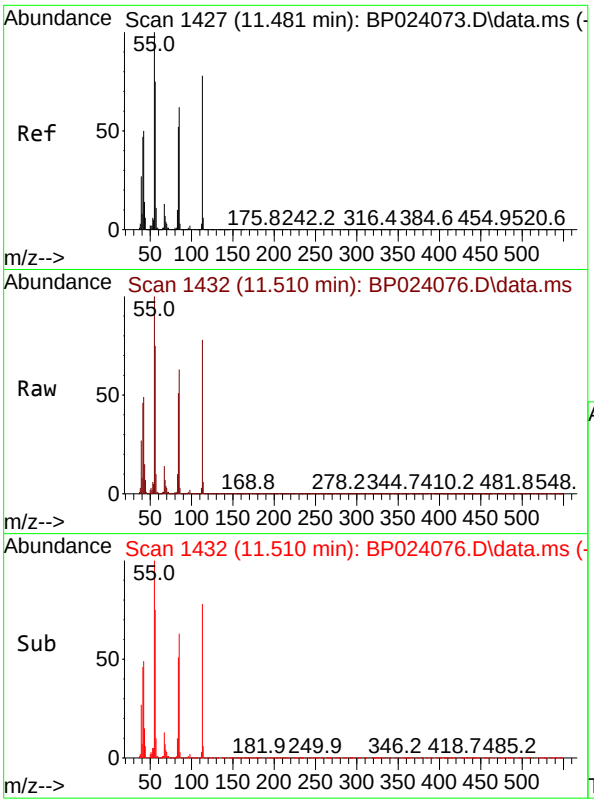


#34
Hexachlorobutadiene
Concen: 83.106 ng
RT: 10.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:225 Resp: 1379105

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.5	75.7
227	64.3	51.3	76.9

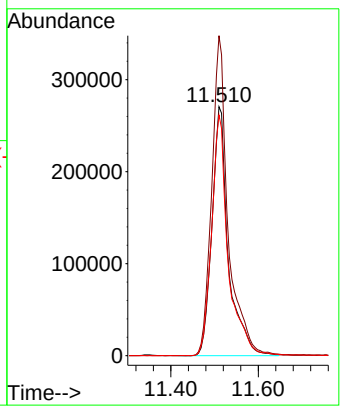




#35
Caprolactam
Concen: 79.435 ng
RT: 11.510 min Scan# 14
Delta R.T. 0.029 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:113 Resp: 70384

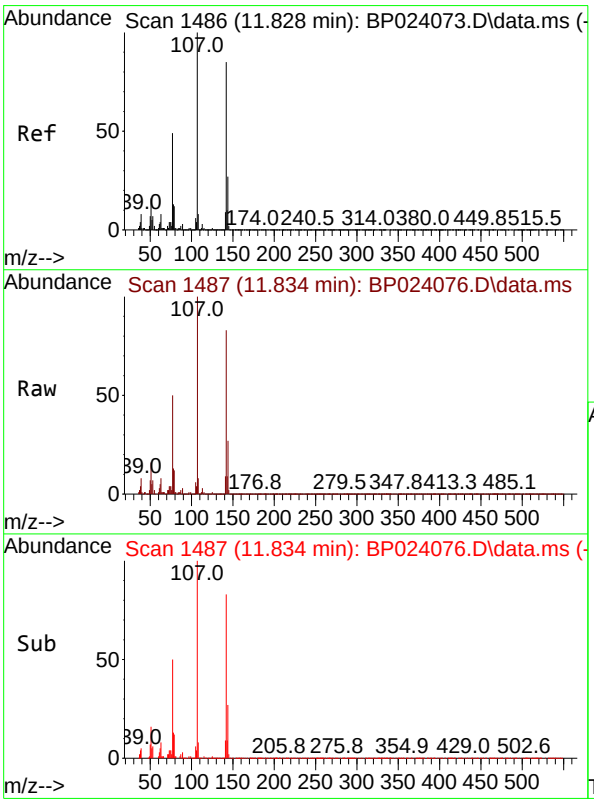
Ion	Ratio	Lower	Upper
113	100		
55	128.5	108.8	148.8
56	96.7	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

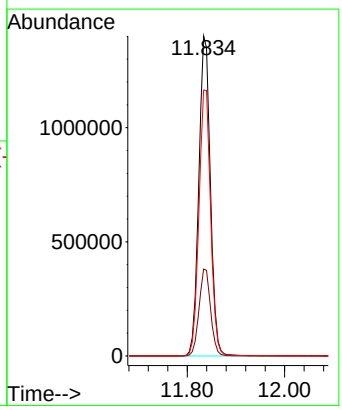
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

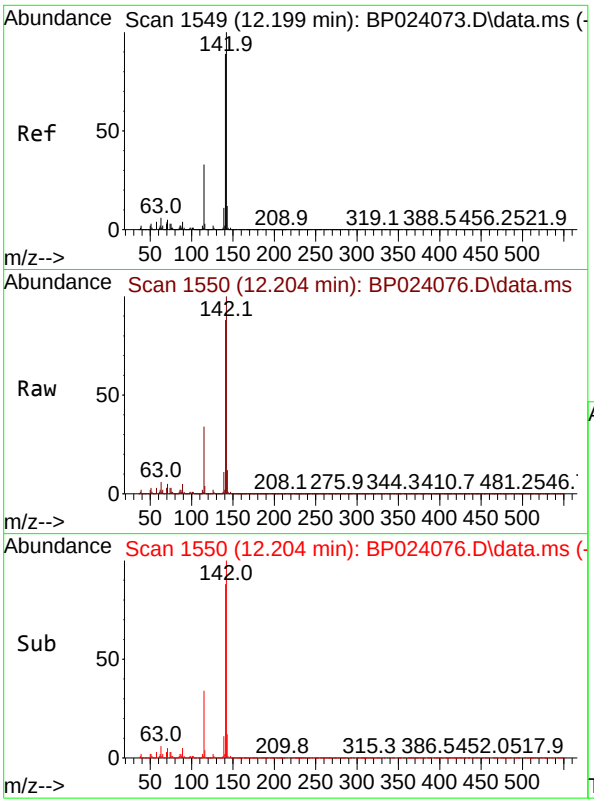


#36
4-Chloro-3-methylphenol
Concen: 89.930 ng
RT: 11.834 min Scan# 1487
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:107 Resp: 2311777

Ion	Ratio	Lower	Upper
107	100		
144	27.2	21.8	32.8
142	83.1	67.8	101.8

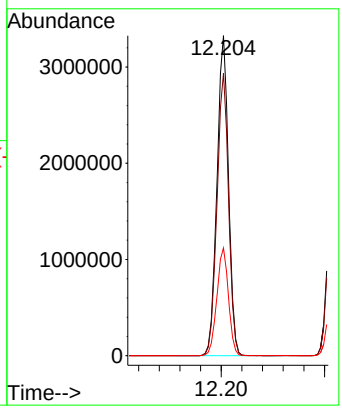




#37
2-Methylnaphthalene
Concen: 83.837 ng
RT: 12.204 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:142 Resp: 514608

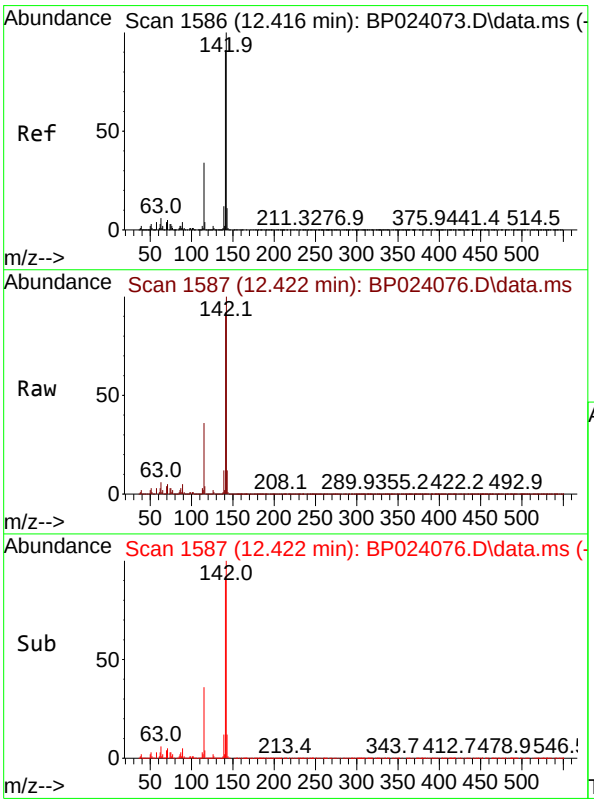
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8
115	33.6	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

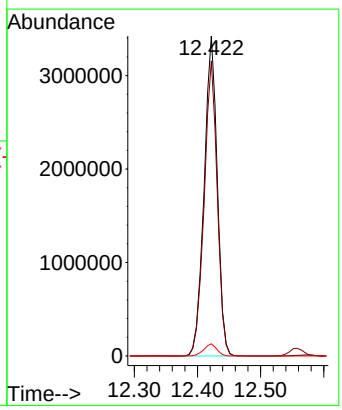
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

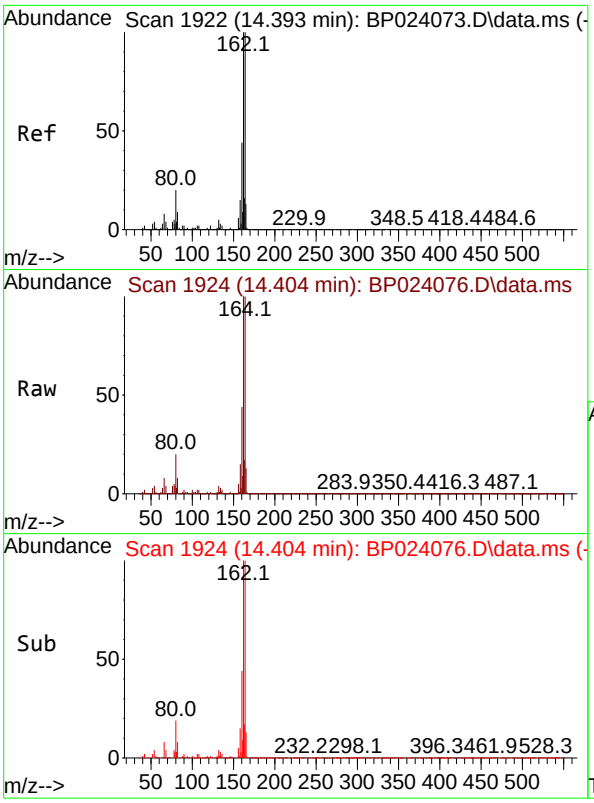


#38
1-Methylnaphthalene
Concen: 82.731 ng
RT: 12.422 min Scan# 1587
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:142 Resp: 4940197

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.0	109.6
116	3.8	2.8	4.2

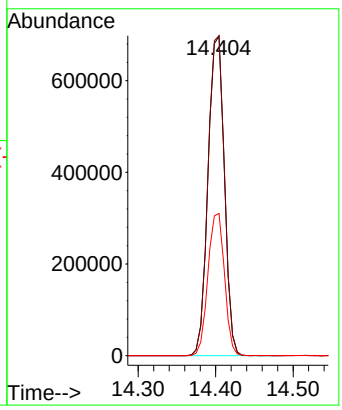




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.404 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:164 Resp: 101738

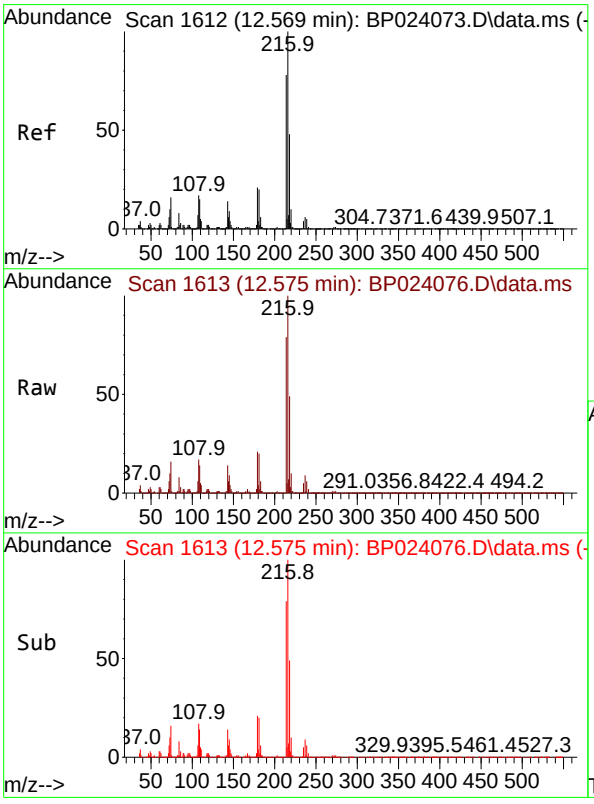
Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.1	120.1
160	44.5	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

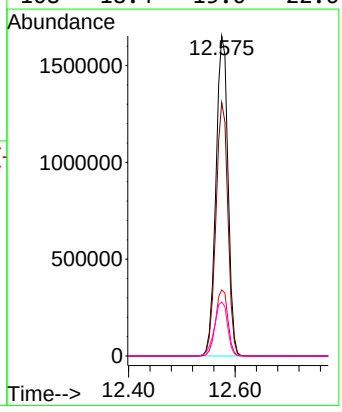
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

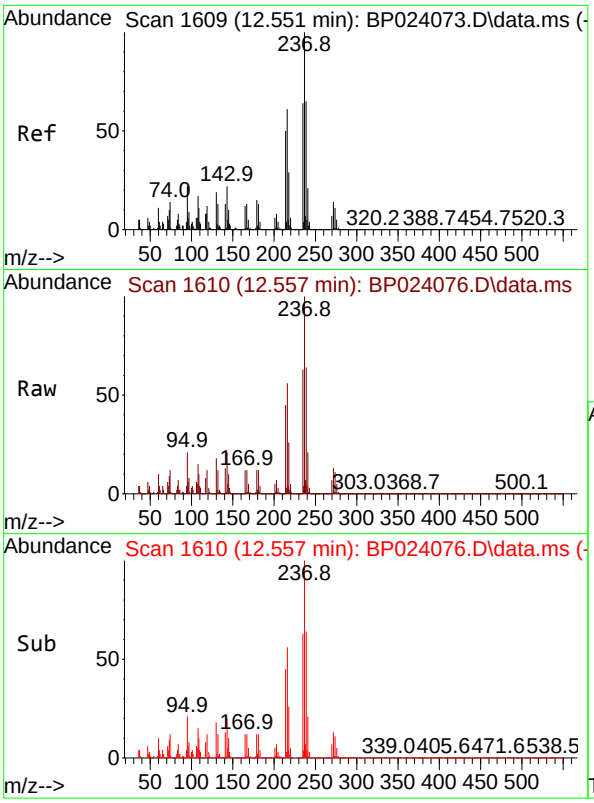


#40
1,2,4,5-Tetrachlorobenzene
Concen: 82.756 ng
RT: 12.575 min Scan# 1613
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:216 Resp: 2586924

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.7	94.1
179	20.9	16.6	25.0
108	18.4	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 85.368 ng
RT: 12.557 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

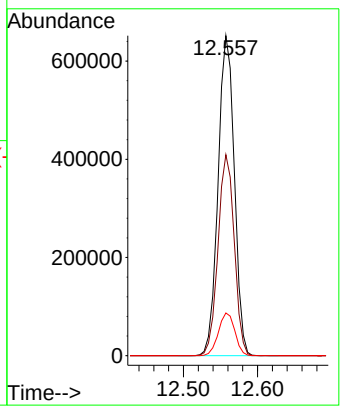
Tgt Ion:237 Resp: 992999

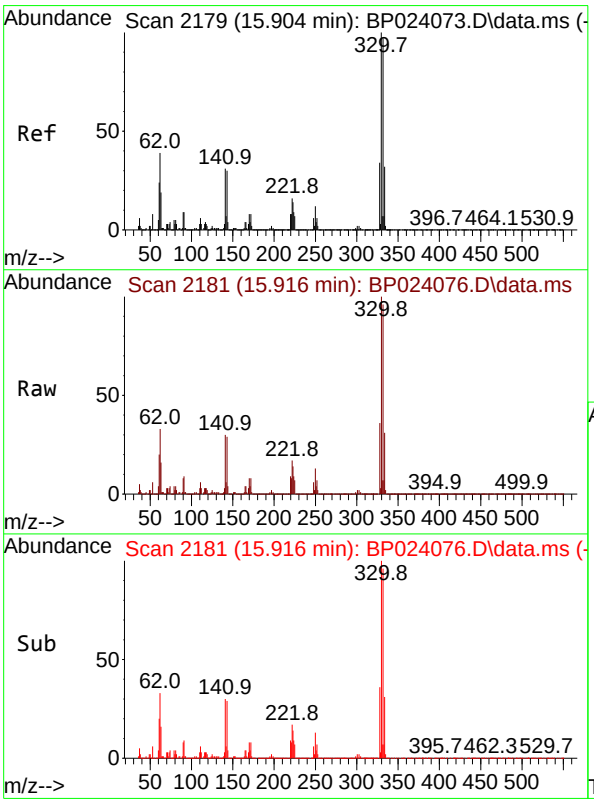
Ion	Ratio	Lower	Upper
237	100		
235	62.8	43.5	83.5
272	13.4	0.0	33.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

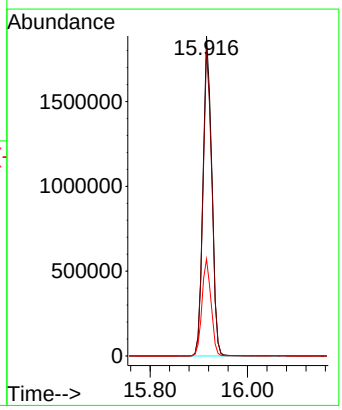


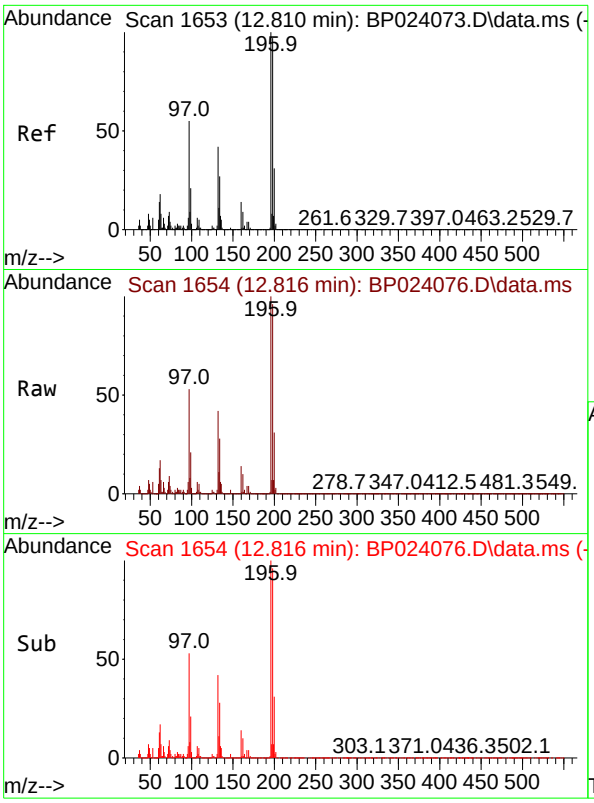


#42
2,4,6-Tribromophenol
Concen: 189.440 ng
RT: 15.916 min Scan# 2181
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:330 Resp: 2360759

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.0	115.4
141	31.2	28.3	42.5





#43
2,4,6-Trichlorophenol
Concen: 89.015 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

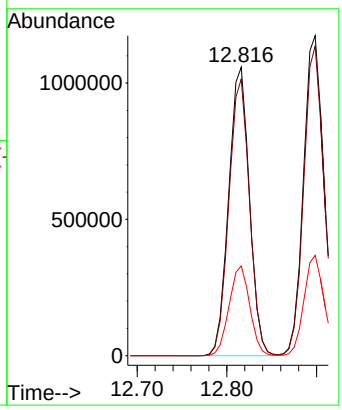
Instrument :
BNA_P
ClientSampleId :
SSTDICC080

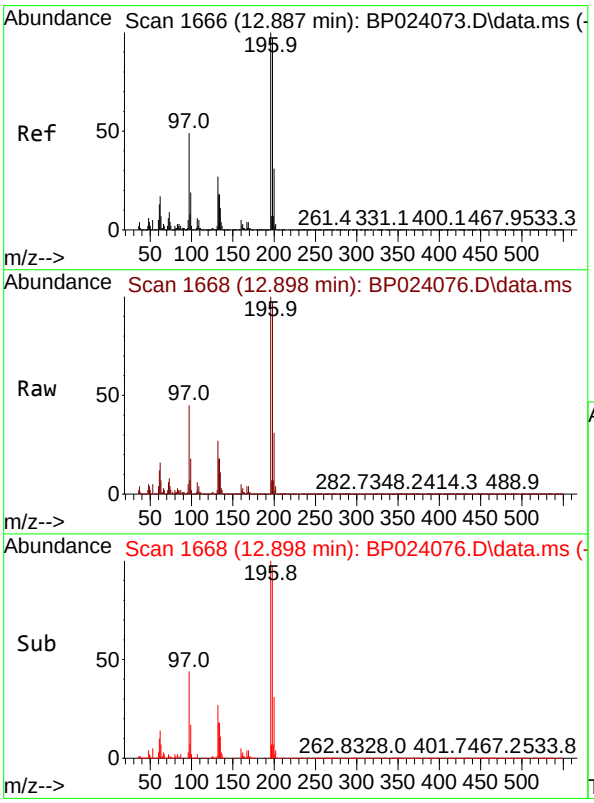
Tgt Ion:196 Resp: 169696

Ion	Ratio	Lower	Upper
196	100		
198	95.9	77.8	116.6
200	31.1	25.0	37.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

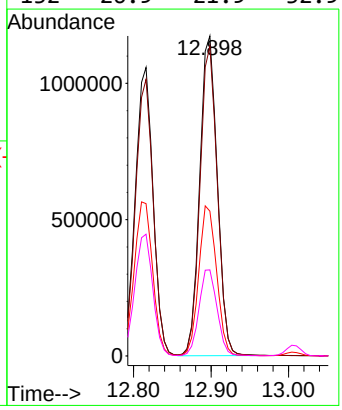


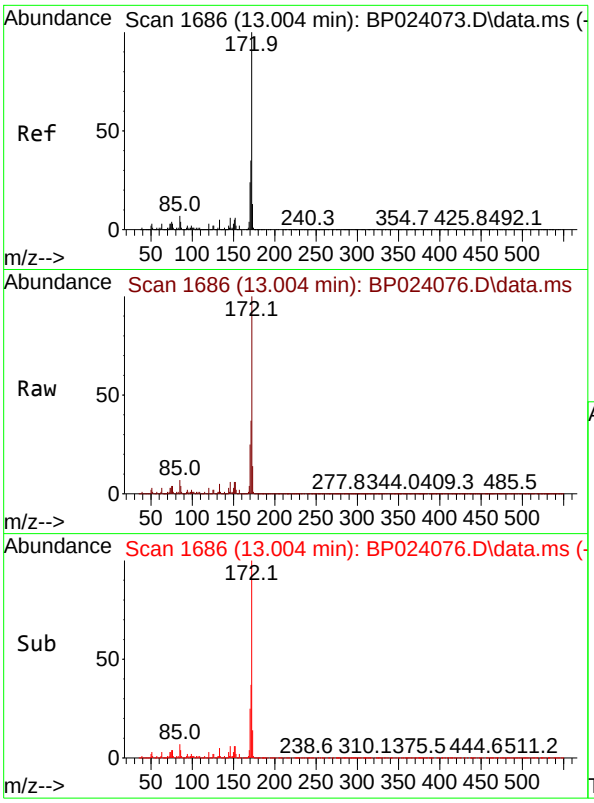


#44
2,4,5-Trichlorophenol
Concen: 88.576 ng
RT: 12.898 min Scan# 1668
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:196 Resp: 1846715

Ion	Ratio	Lower	Upper
196	100		
198	96.7	77.4	116.2
97	45.3	39.0	58.4
132	26.9	21.9	32.9

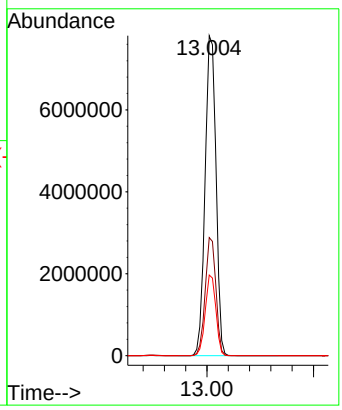




#45
2-Fluorobiphenyl
Concen: 152.090 ng
RT: 13.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:172 Resp:1106825

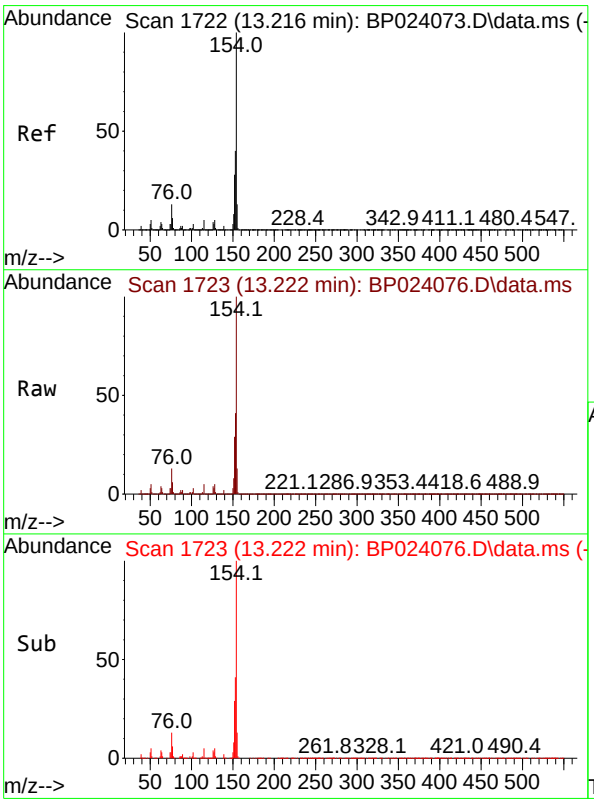
Ion	Ratio	Lower	Upper
172	100		
171	36.9	28.2	42.2
170	25.2	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

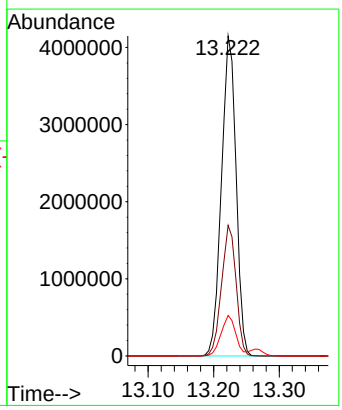
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

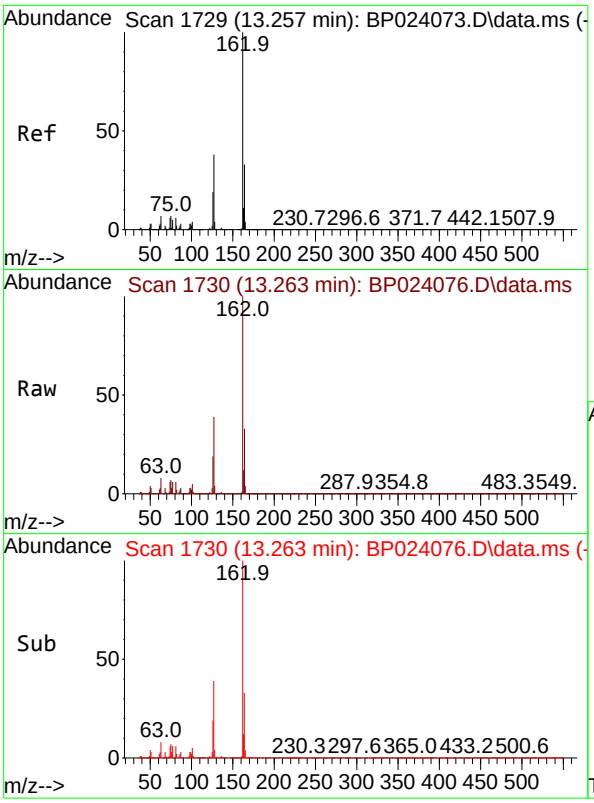


#46
1,1'-Biphenyl
Concen: 80.887 ng
RT: 13.222 min Scan# 1723
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:154 Resp: 6394659

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.0	60.0
76	12.7	0.0	32.6

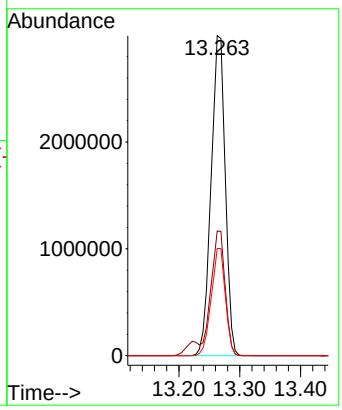




#47
2-Chloronaphthalene
Concen: 80.939 ng
RT: 13.263 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:162 Resp: 483715

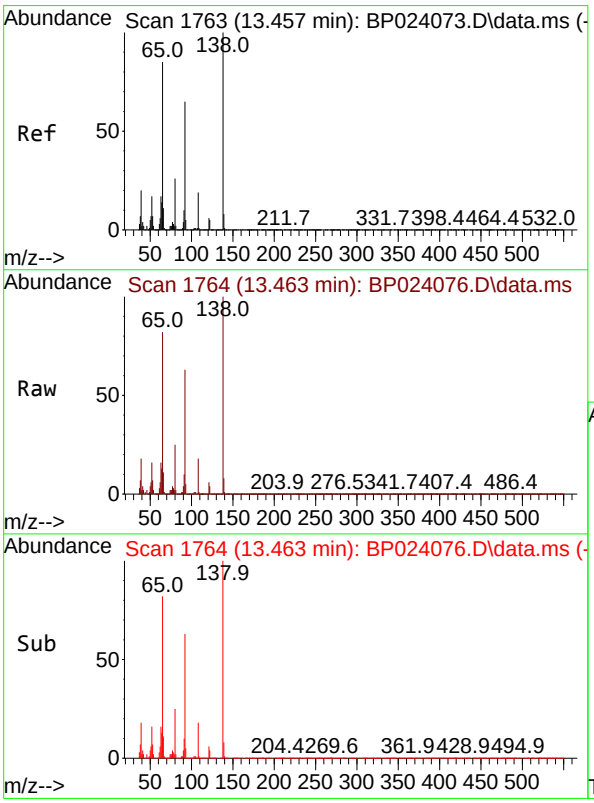
Ion	Ratio	Lower	Upper
162	100		
127	39.0	30.7	46.1
164	33.5	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

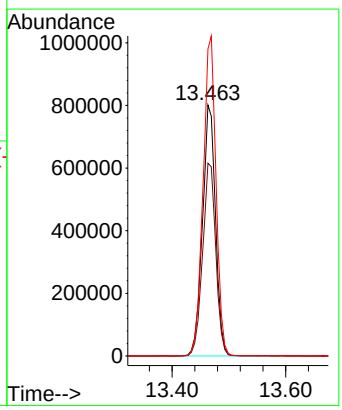
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

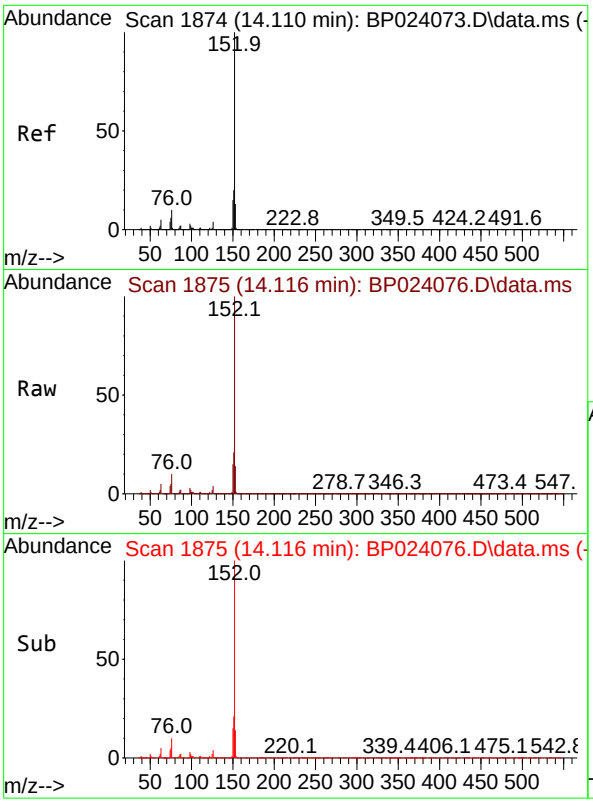


#48
2-Nitroaniline
Concen: 90.146 ng
RT: 13.463 min Scan# 1764
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 65 Resp: 1272607

Ion	Ratio	Lower	Upper
65	100		
92	76.8	61.7	92.5
138	122.4	94.6	142.0

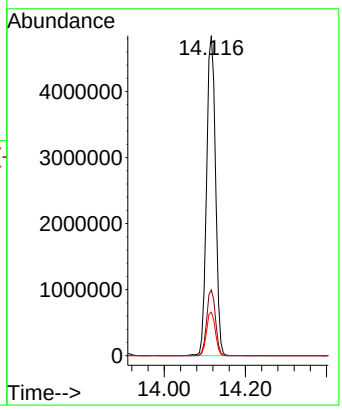




#49
Acenaphthylene
Concen: 83.516 ng
RT: 14.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:152 Resp: 735361

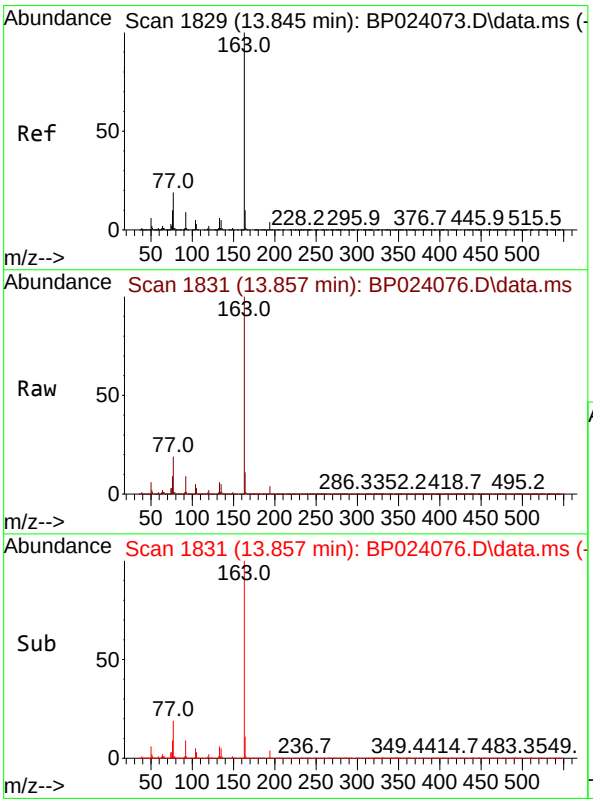
Ion	Ratio	Lower	Upper
152	100		
151	20.6	15.8	23.8
153	13.6	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

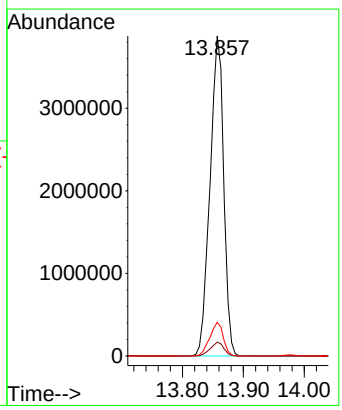
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

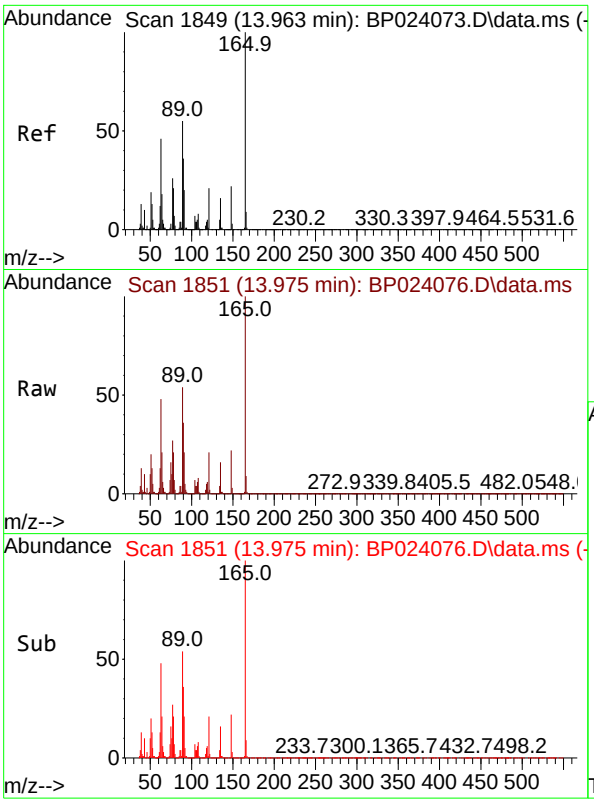


#50
Dimethylphthalate
Concen: 84.337 ng
RT: 13.857 min Scan# 1831
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:163 Resp: 6052388

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.5	8.1	12.1

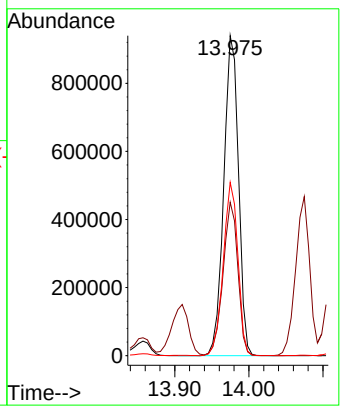




#51
2,6-Dinitrotoluene
Concen: 88.544 ng
RT: 13.975 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:165 Resp: 129439

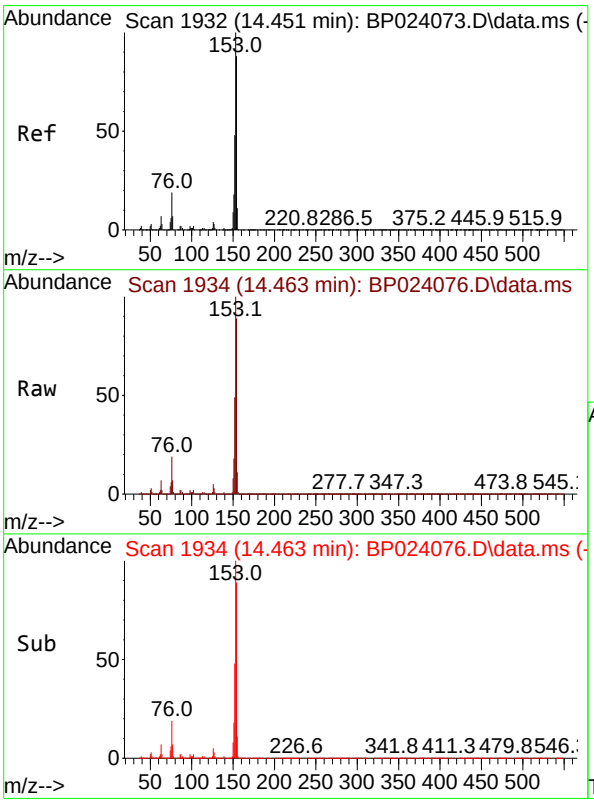
Ion	Ratio	Lower	Upper
165	100		
63	48.0	40.1	60.1
89	54.1	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

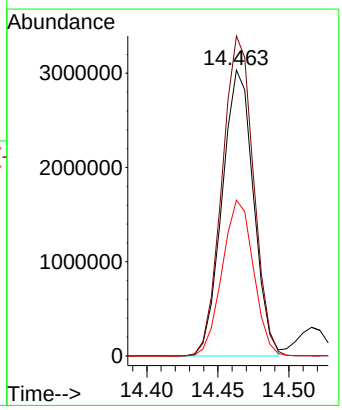
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

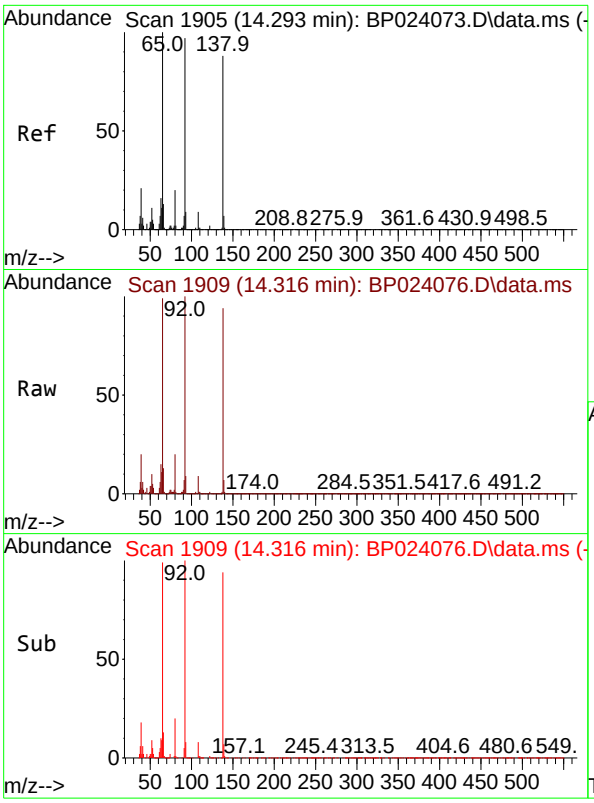


#52
Acenaphthene
Concen: 81.994 ng
RT: 14.463 min Scan# 1934
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:154 Resp: 4649176

Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.6	135.8
152	54.5	43.6	65.4





#53
3-Nitroaniline
Concen: 91.172 ng
RT: 14.316 min Scan# 1
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

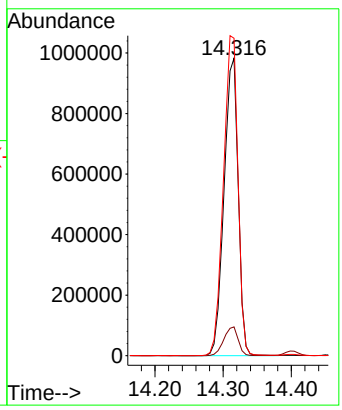
Tgt Ion:138 Resp: 142223

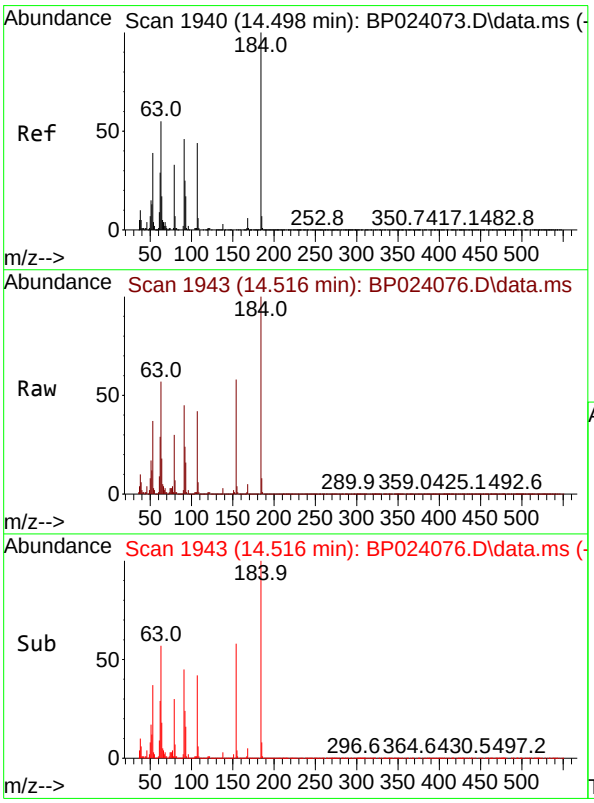
Ion	Ratio	Lower	Upper
138	100		
108	9.7	7.8	11.8
92	106.7	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

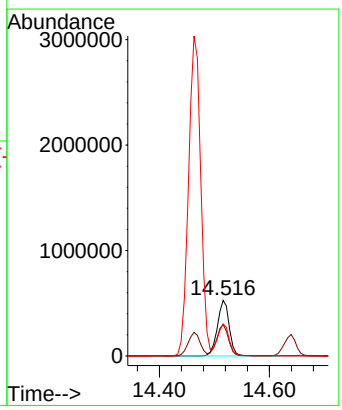


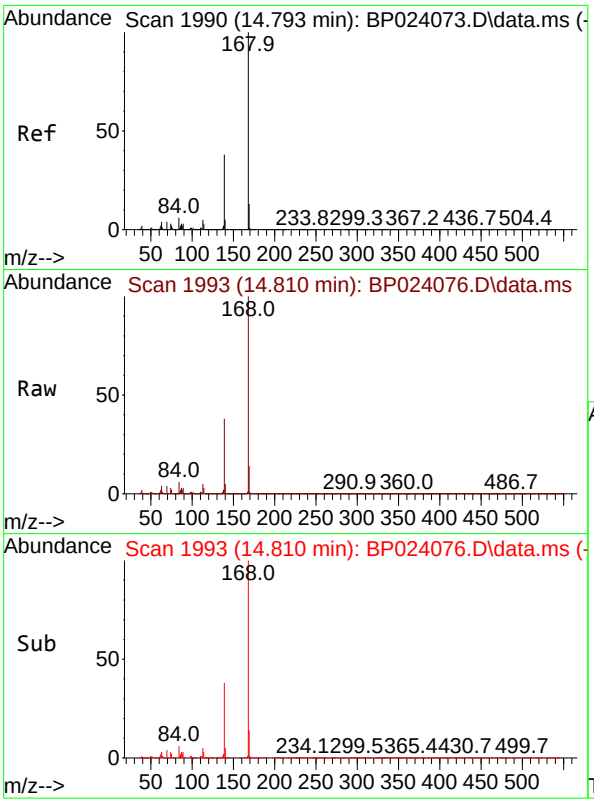


#54
2,4-Dinitrophenol
Concen: 81.347 ng
RT: 14.516 min Scan# 1943
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:184 Resp: 785416

Ion	Ratio	Lower	Upper
184	100		
63	56.6	49.4	74.0
154	57.7	49.2	73.8

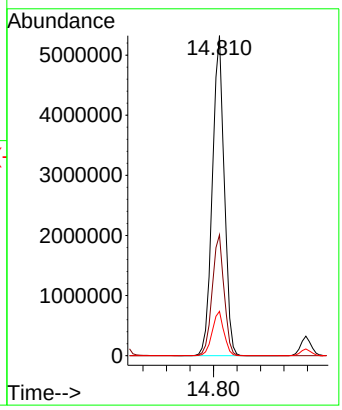




#55
Dibenzofuran
Concen: 81.080 ng
RT: 14.810 min Scan# 1
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:168 Resp: 746838

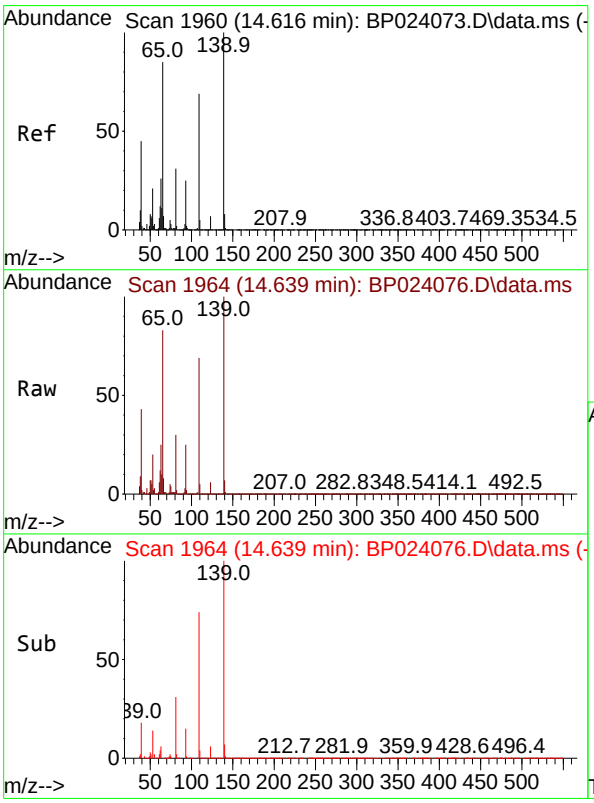
Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.2	45.2
169	13.9	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

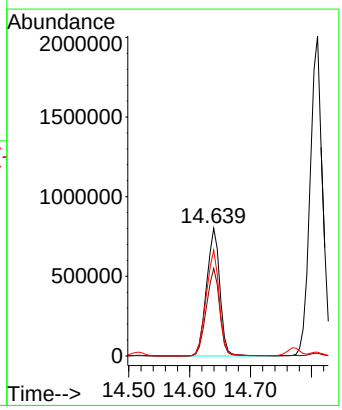
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

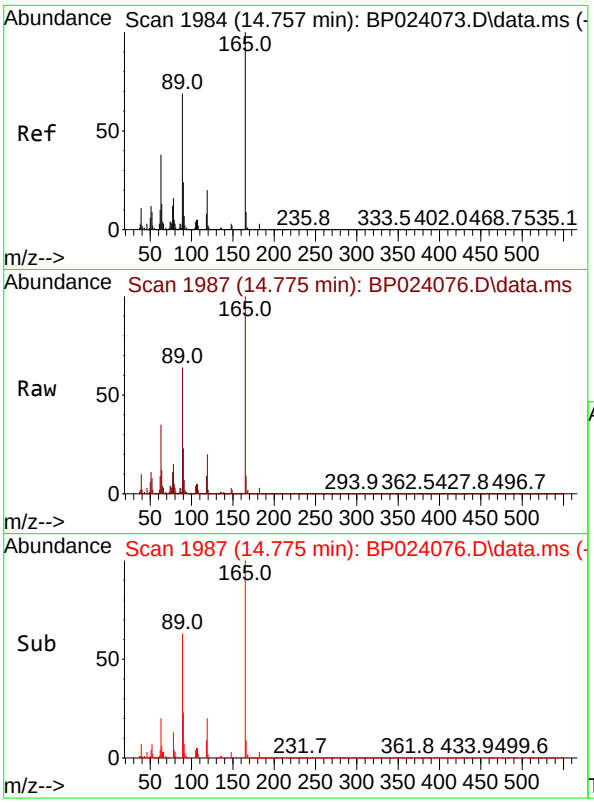


#56
4-Nitrophenol
Concen: 90.085 ng
RT: 14.639 min Scan# 1964
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:139 Resp: 1213890

Ion	Ratio	Lower	Upper
139	100		
109	68.5	49.2	89.2
65	82.9	65.4	105.4

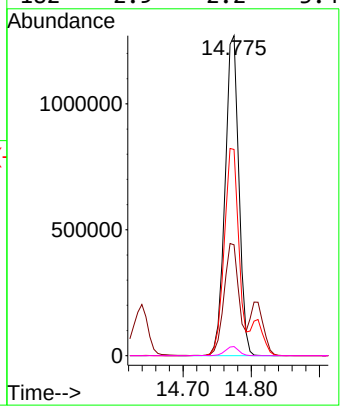




#57
2,4-Dinitrotoluene
Concen: 94.366 ng
RT: 14.775 min Scan# 1
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:165 Resp: 179203

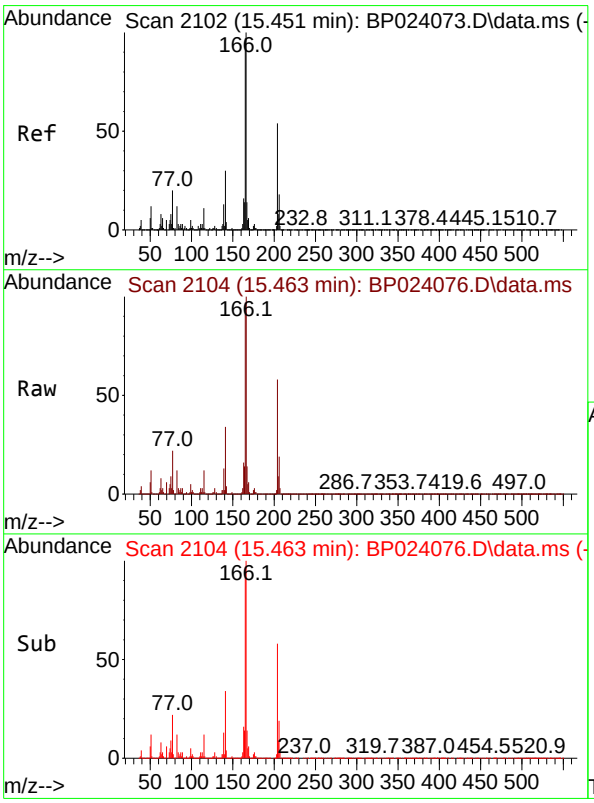
Ion	Ratio	Lower	Upper
165	100		
63	34.6	30.4	45.6
89	64.5	54.8	82.2
182	2.9	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

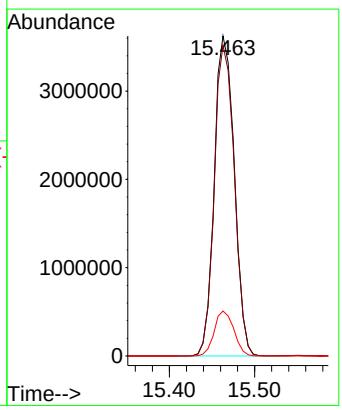
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

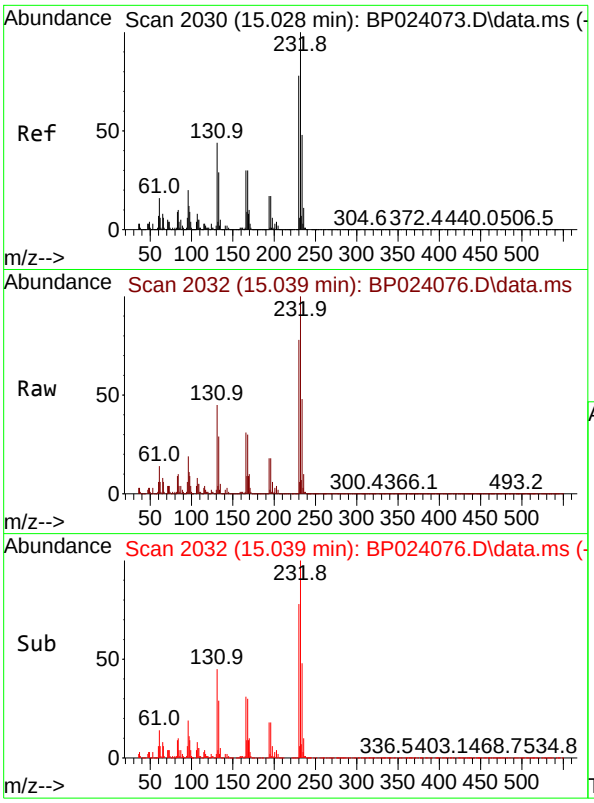


#58
Fluorene
Concen: 82.157 ng
RT: 15.463 min Scan# 2104
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:166 Resp: 5910096

Ion	Ratio	Lower	Upper
166	100		
165	97.0	77.5	116.3
167	14.1	10.9	16.3

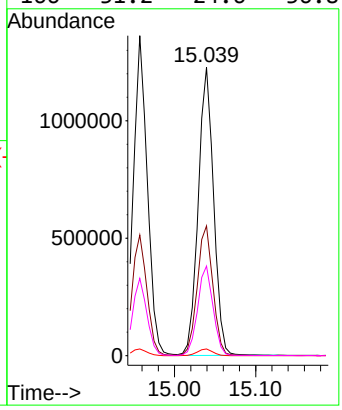




#59
2,3,4,6-Tetrachlorophenol
Concen: 89.273 ng
RT: 15.039 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:232 Resp: 161482

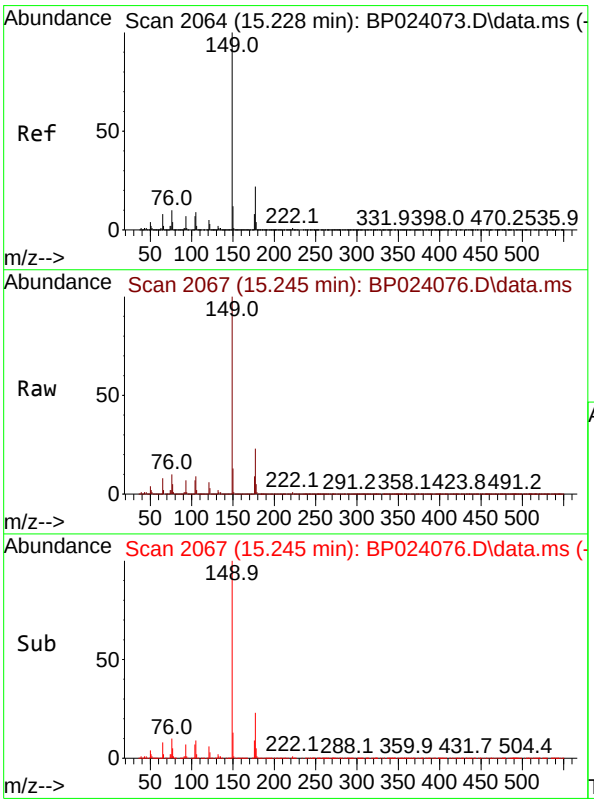
Ion	Ratio	Lower	Upper
232	100		
131	45.6	37.3	55.9
130	2.4	1.9	2.9
166	31.2	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

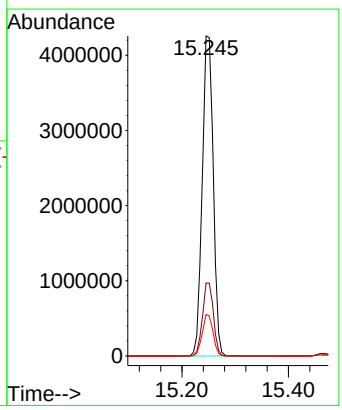
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

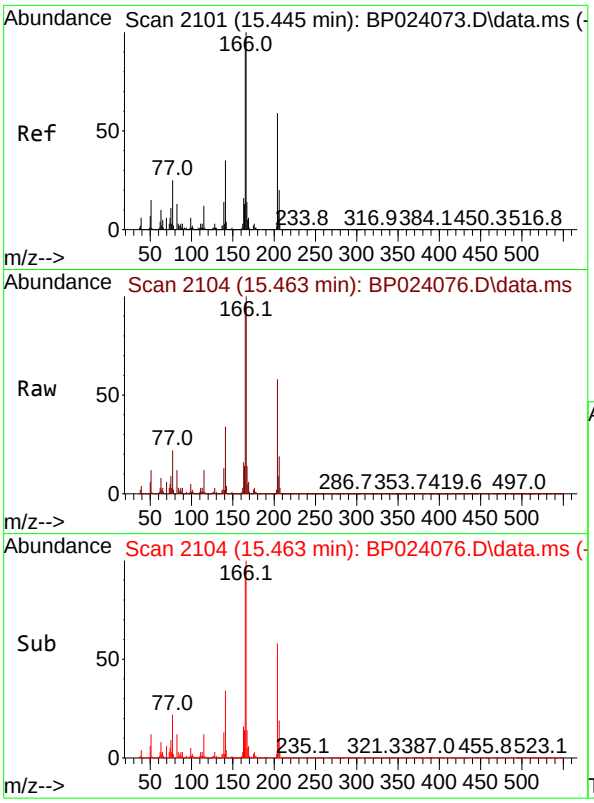


#60
Diethylphthalate
Concen: 85.419 ng
RT: 15.245 min Scan# 2067
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:149 Resp: 6085270

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.9	26.9
150	12.9	9.8	14.6

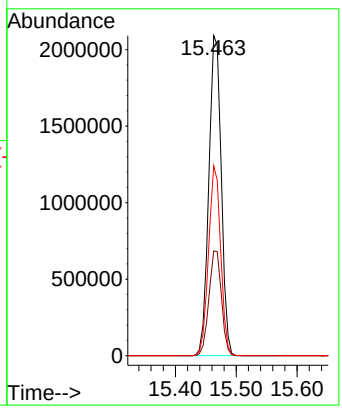




#61
4-Chlorophenyl-phenylether
Concen: 83.644 ng
RT: 15.463 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:204 Resp: 296169

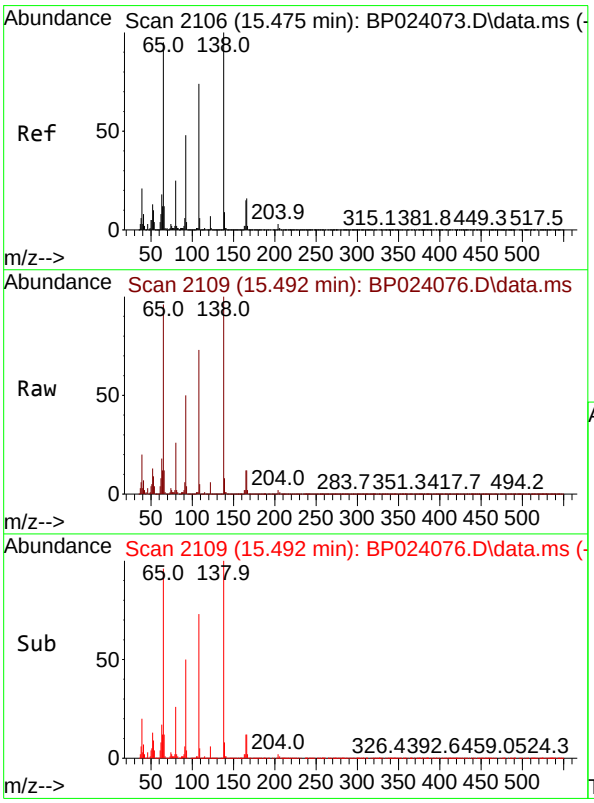
Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.6	39.8
141	59.4	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

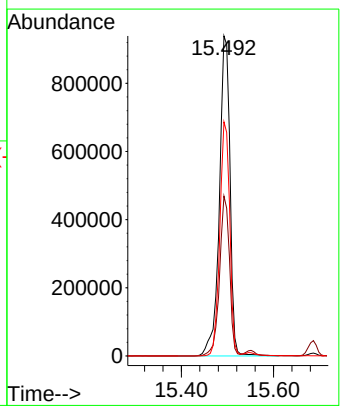
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

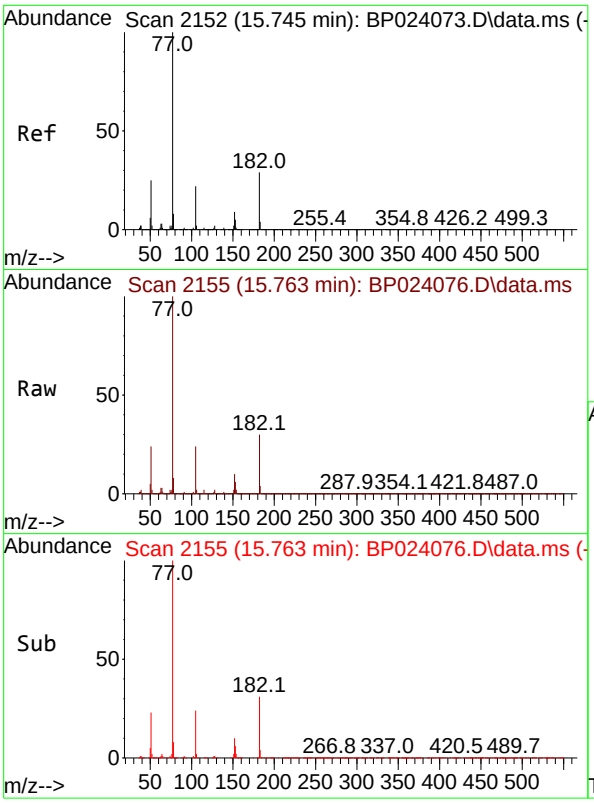


#62
4-Nitroaniline
Concen: 78.926 ng
RT: 15.492 min Scan# 2109
Delta R.T. 0.017 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:138 Resp: 1499607

Ion	Ratio	Lower	Upper
138	100		
92	49.9	28.3	68.3
108	73.2	54.0	94.0

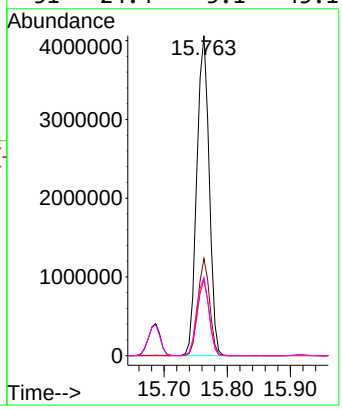




#63
Azobenzene
Concen: 82.511 ng
RT: 15.763 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion: 77 Resp: 550820

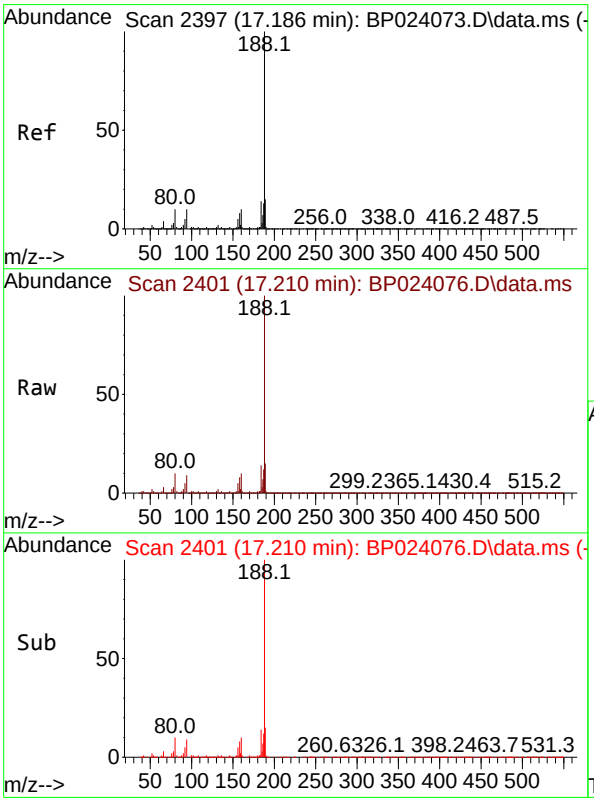
Ion	Ratio	Lower	Upper
77	100		
182	30.4	8.5	48.5
105	23.7	1.8	41.8
51	24.4	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

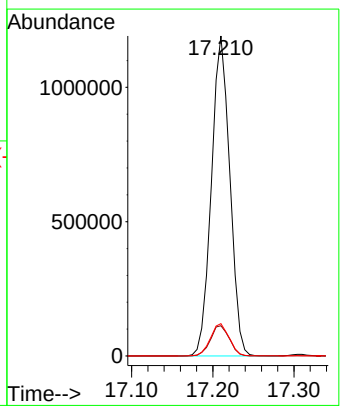
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

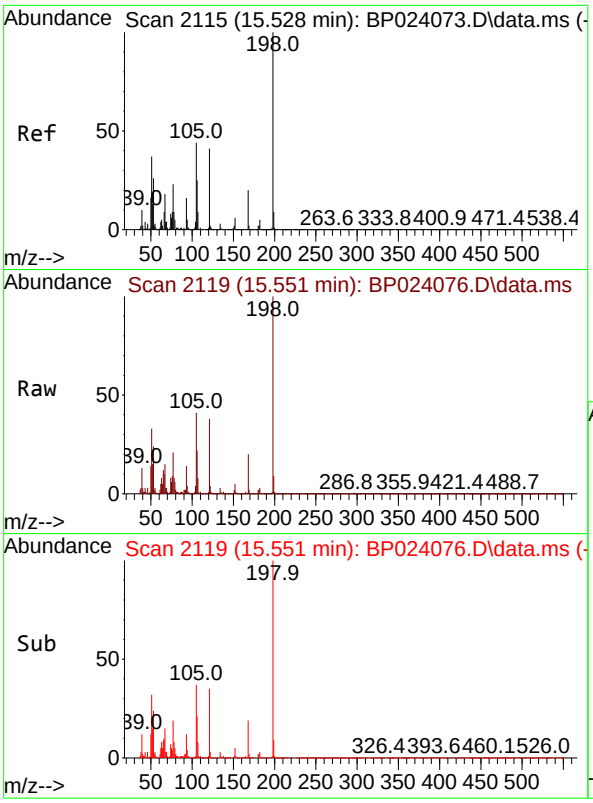


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.210 min Scan# 2401
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:188 Resp: 1880174

Ion	Ratio	Lower	Upper
188	100		
94	9.5	7.6	11.4
80	10.1	8.2	12.2





#65
4,6-Dinitro-2-methylphenol
Concen: 81.263 ng
RT: 15.551 min Scan# 21
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

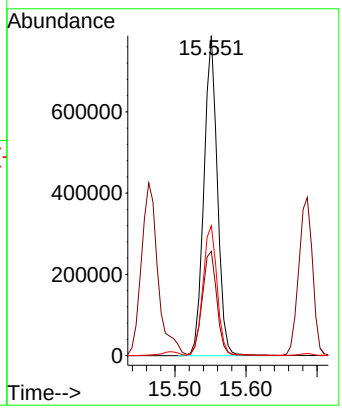
Tgt Ion:198 Resp: 103893

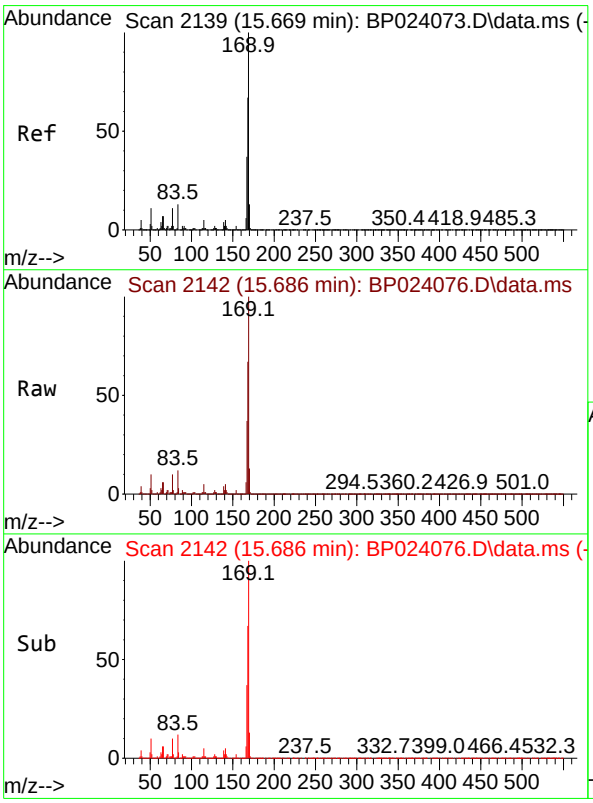
Ion	Ratio	Lower	Upper
198	100		
51	32.6	18.7	58.7
105	40.6	24.7	64.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

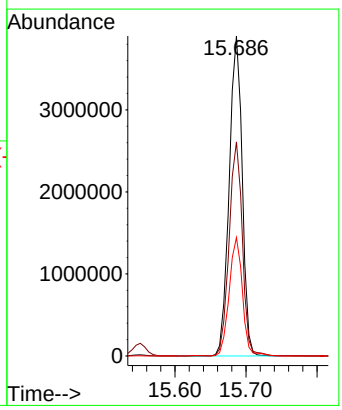


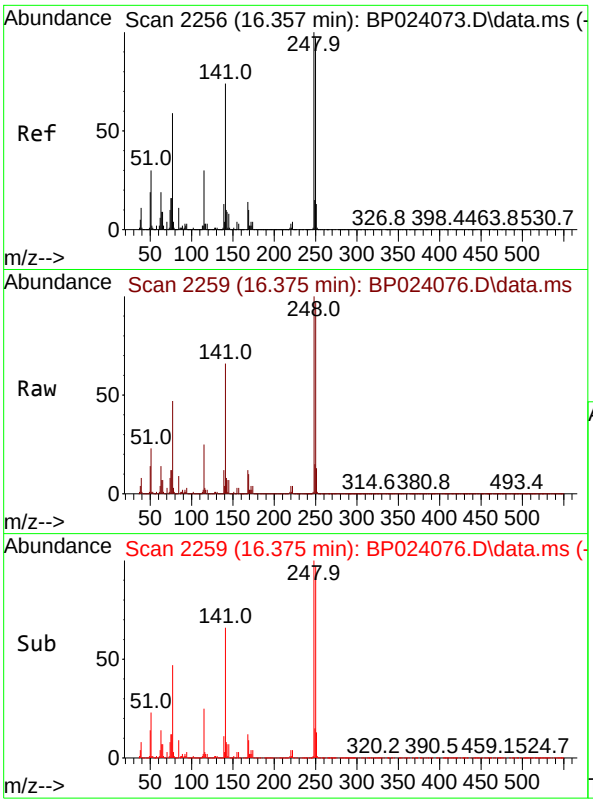


#66
n-Nitrosodiphenylamine
Concen: 84.726 ng
RT: 15.686 min Scan# 2142
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:169 Resp: 4967720

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.6	80.4
167	37.0	29.5	44.3

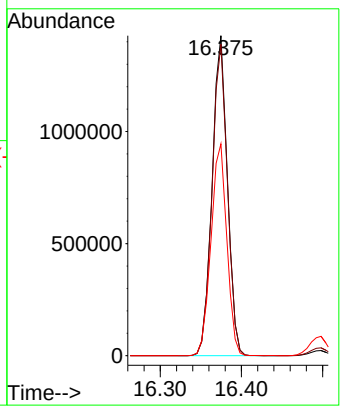




#67
4-Bromophenyl-phenylether
Concen: 88.382 ng
RT: 16.375 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:248 Resp: 186604

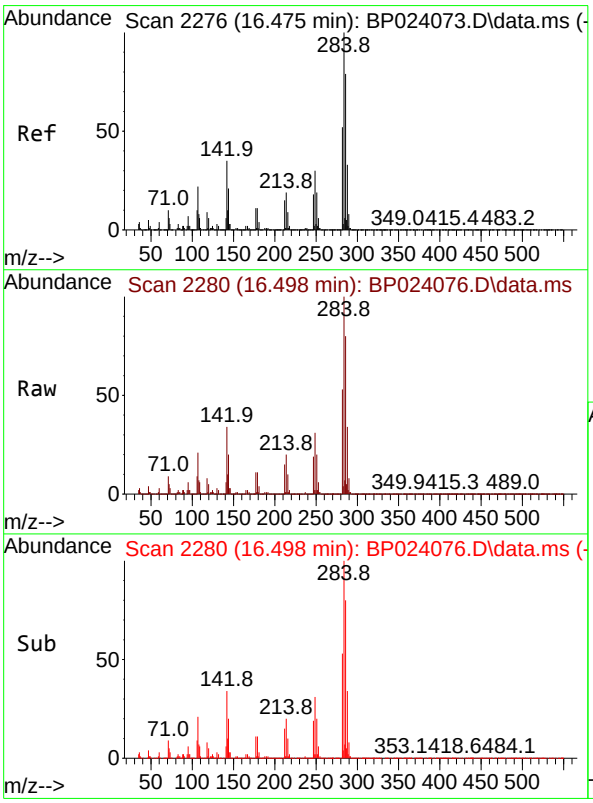
Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.9	116.9
141	66.2	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

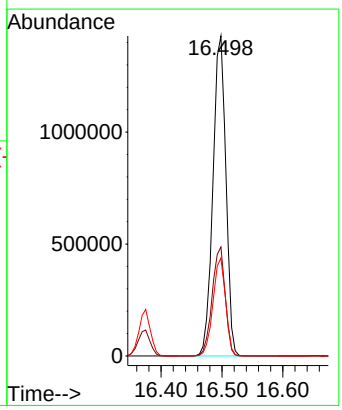
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

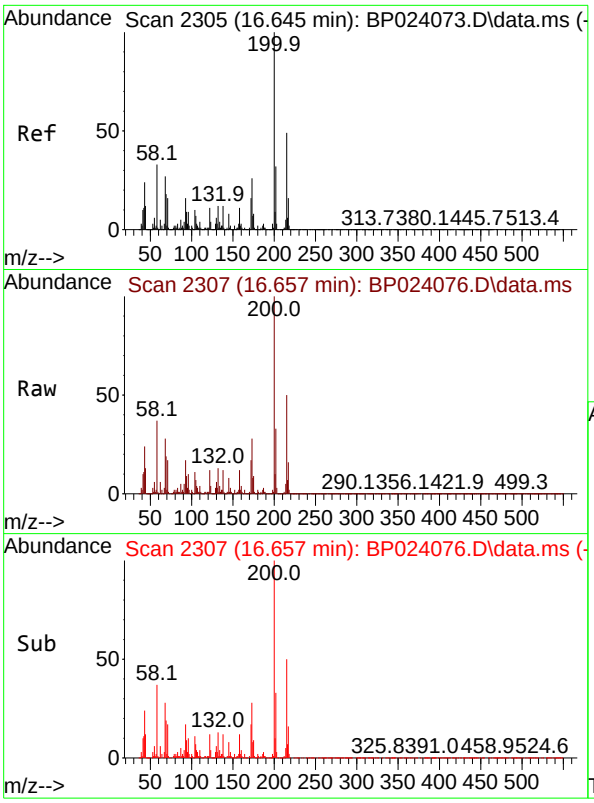


#68
Hexachlorobenzene
Concen: 84.918 ng
RT: 16.498 min Scan# 2280
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:284 Resp: 2109681

Ion	Ratio	Lower	Upper
284	100		
142	34.1	27.7	41.5
249	30.6	23.8	35.6

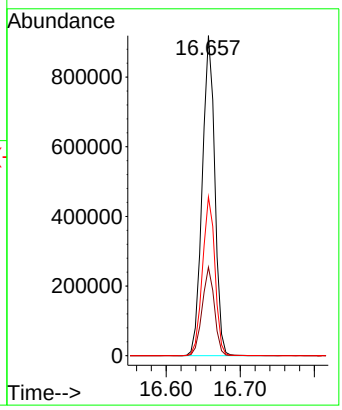




#69
Atrazine
Concen: 71.792 ng
RT: 16.657 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:200 Resp: 108024

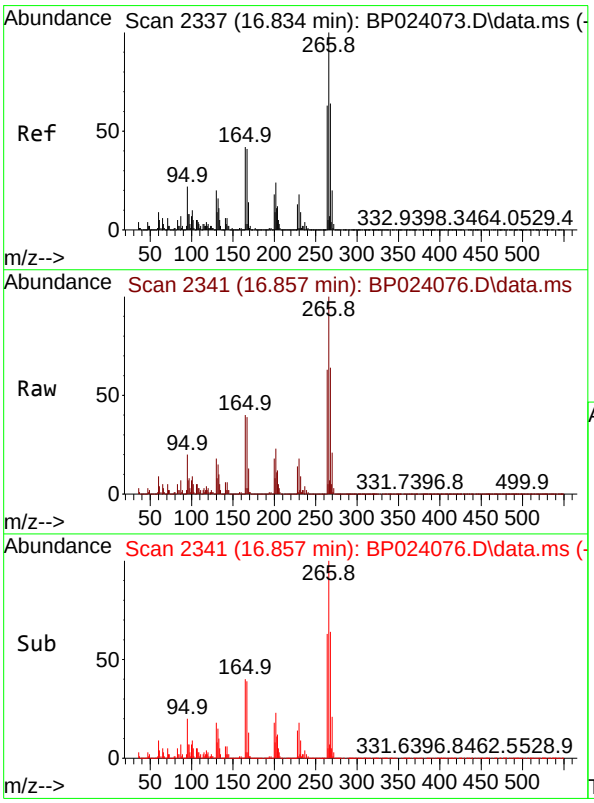
Ion	Ratio	Lower	Upper
200	100		
173	27.7	5.7	45.7
215	49.6	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

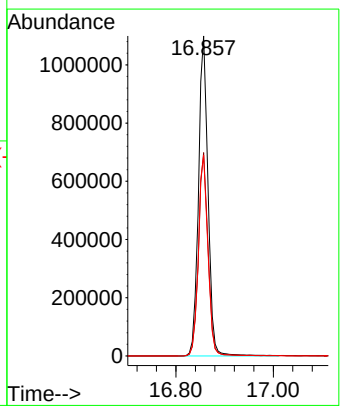
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

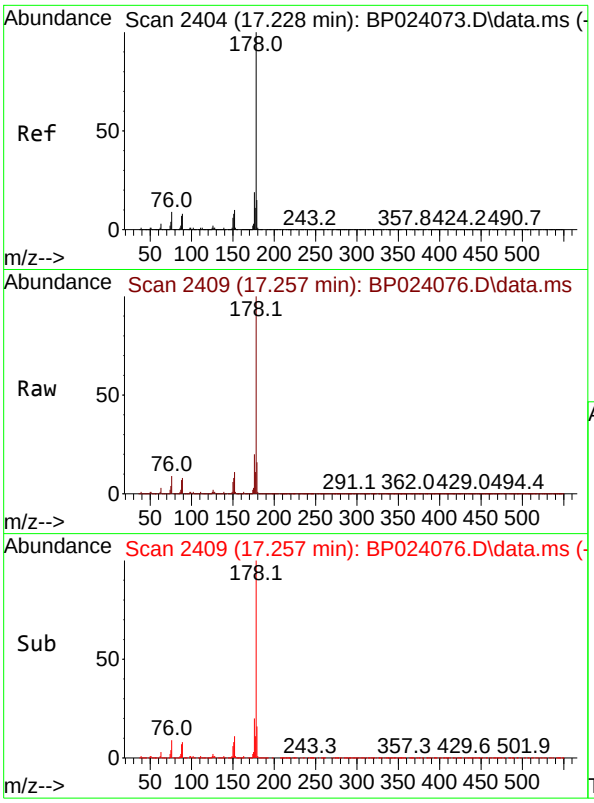


#70
Pentachlorophenol
Concen: 92.962 ng
RT: 16.857 min Scan# 2341
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:266 Resp: 1500010

Ion	Ratio	Lower	Upper
266	100		
268	63.6	51.3	76.9
264	62.7	50.5	75.7

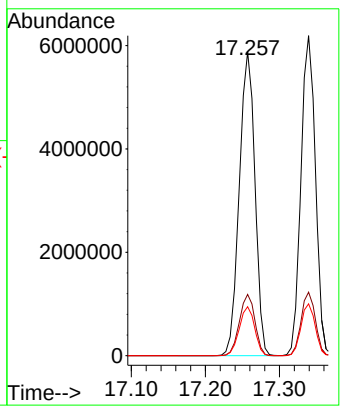




#71
Phenanthrene
Concen: 81.379 ng
RT: 17.257 min Scan# 24
Delta R.T. 0.029 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:178 Resp: 862627

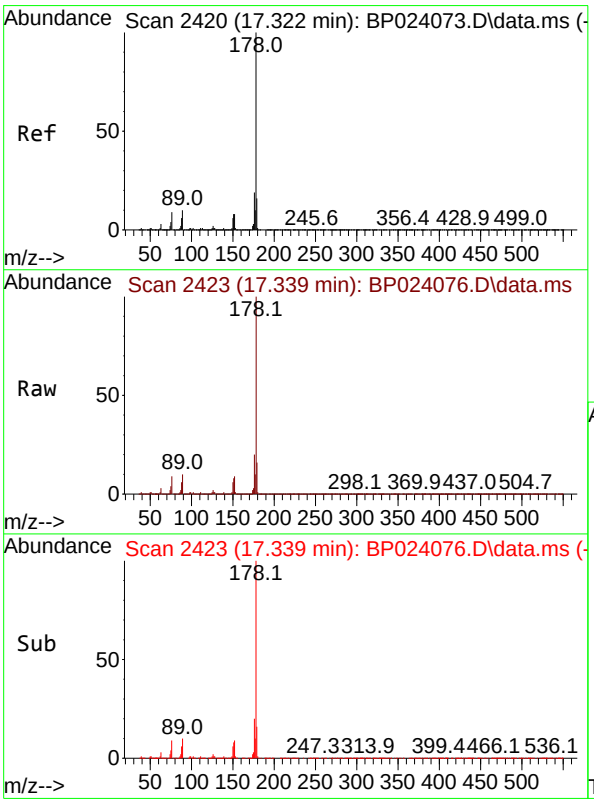
Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.5	23.3
179	16.1	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

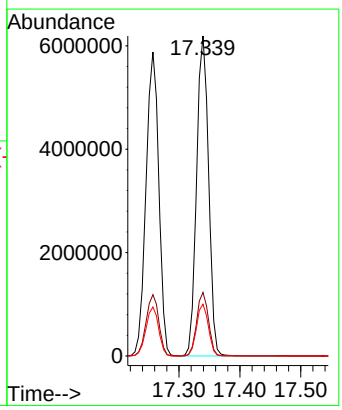
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

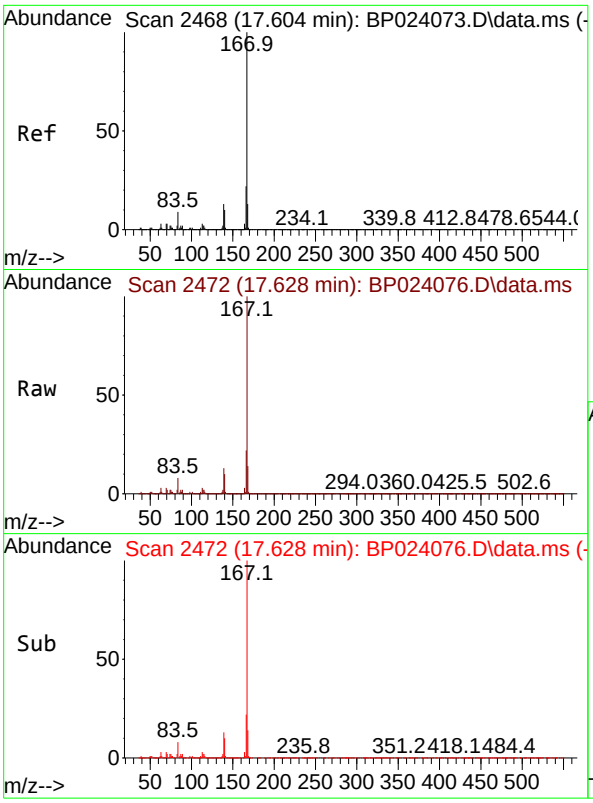


#72
Anthracene
Concen: 83.116 ng
RT: 17.339 min Scan# 2423
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:178 Resp: 8443057

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.4	23.0
179	16.2	12.6	19.0

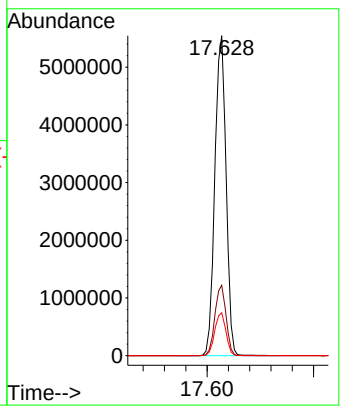




#73
Carbazole
Concen: 83.727 ng
RT: 17.628 min Scan# 24
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:167 Resp: 810349

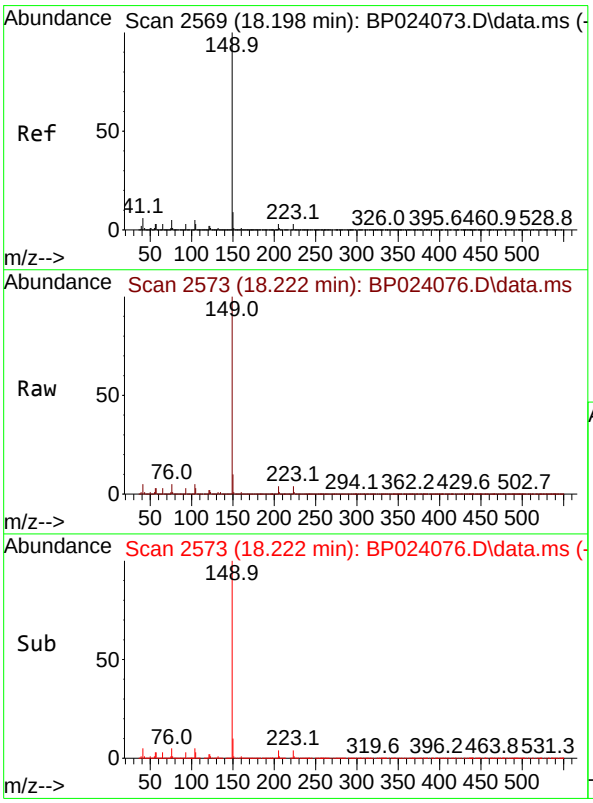
Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.3	25.9
139	13.4	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

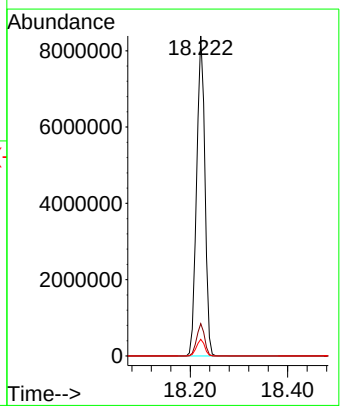
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

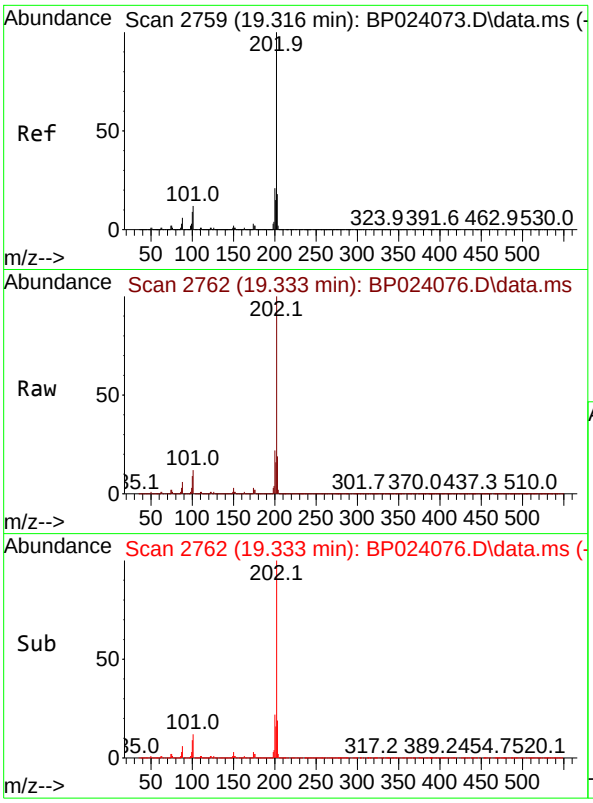


#74
Di-n-butylphthalate
Concen: 88.213 ng
RT: 18.222 min Scan# 2573
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:149 Resp: 9961935

Ion	Ratio	Lower	Upper
149	100		
150	10.1	7.4	11.2
104	5.2	4.2	6.2





#75
Fluoranthene
Concen: 81.616 ng
RT: 19.333 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

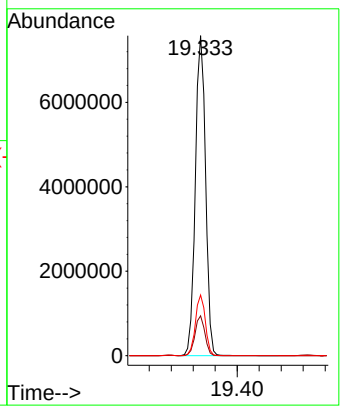
Tgt Ion:202 Resp: 978548

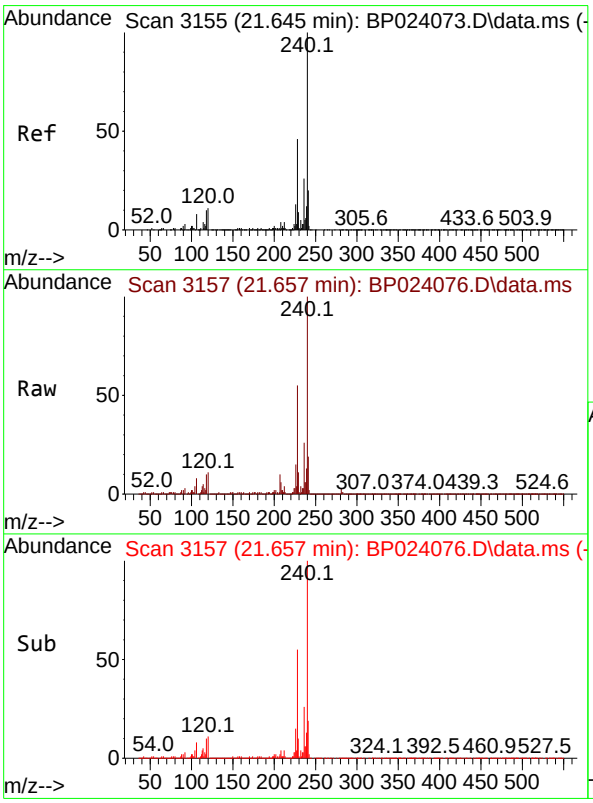
Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	31.9
203	18.9	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

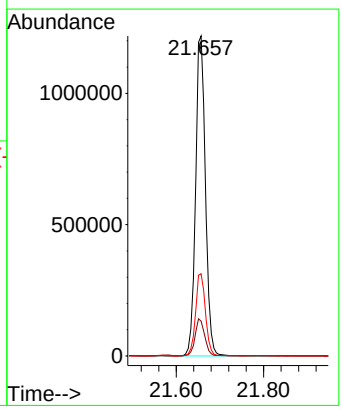


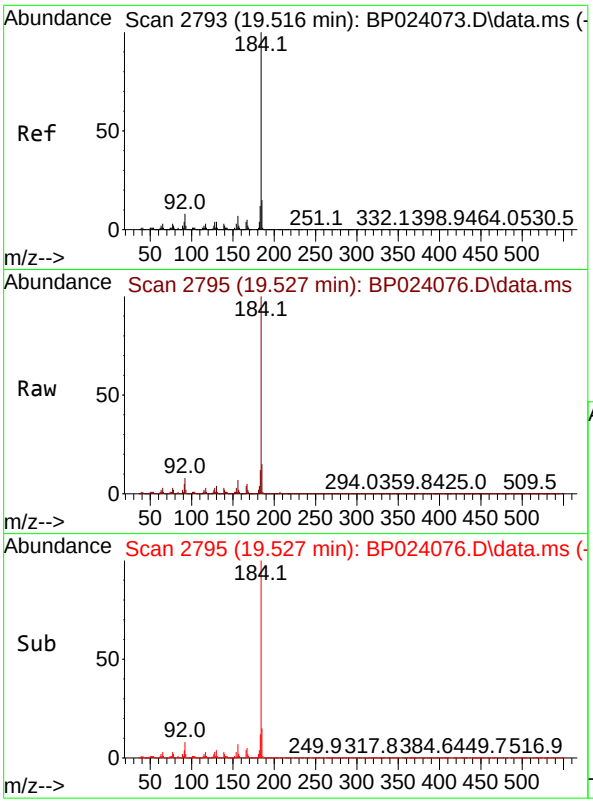


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.657 min Scan# 3157
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:240 Resp: 1907821

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.9	13.3
236	25.7	20.7	31.1

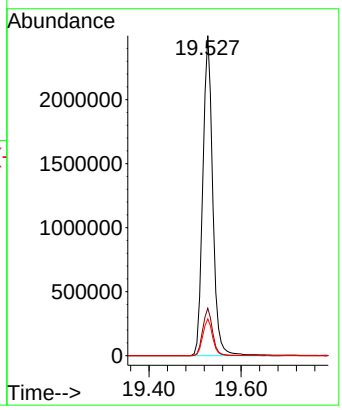




#77
Benzidine
Concen: 161.931 ng
RT: 19.527 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:184 Resp: 376456

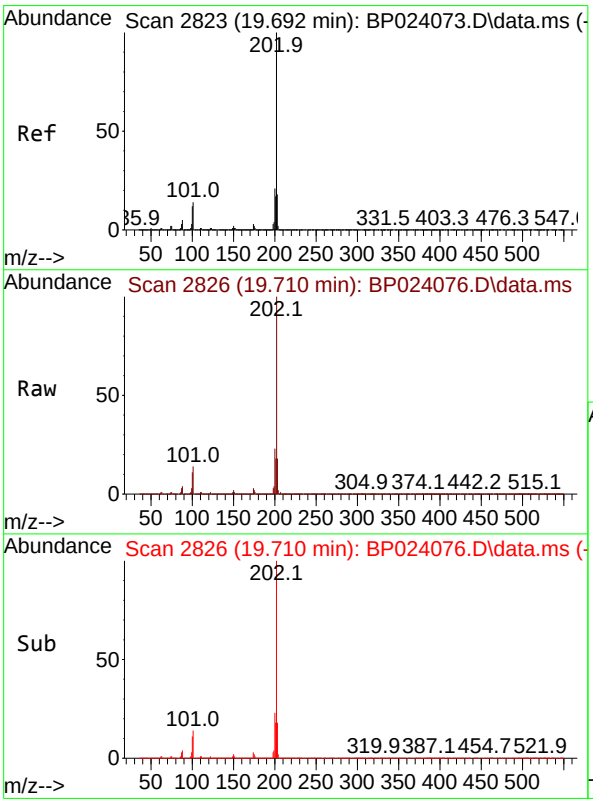
Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.8	17.8
183	11.5	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

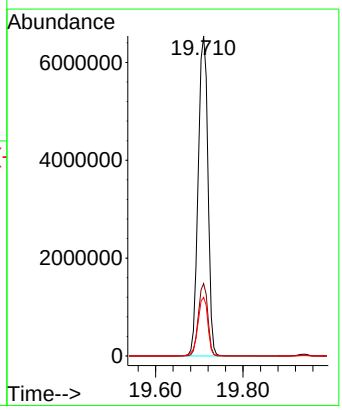
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

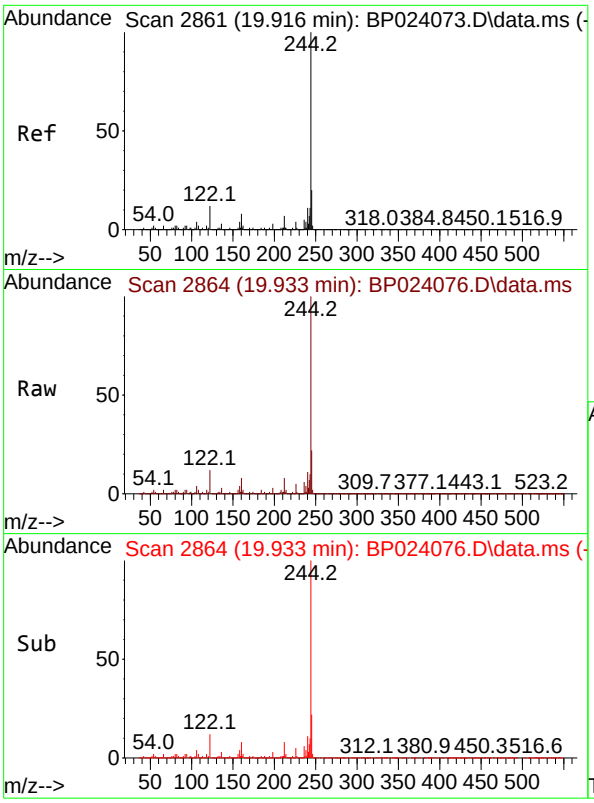


#78
Pyrene
Concen: 83.702 ng
RT: 19.710 min Scan# 2826
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:202 Resp:10143263

Ion	Ratio	Lower	Upper
202	100		
200	22.6	17.2	25.8
203	18.3	14.4	21.6

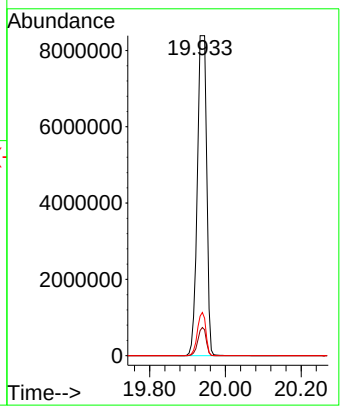




#79
Terphenyl-d14
Concen: 150.126 ng
RT: 19.933 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:244 Resp:1447453

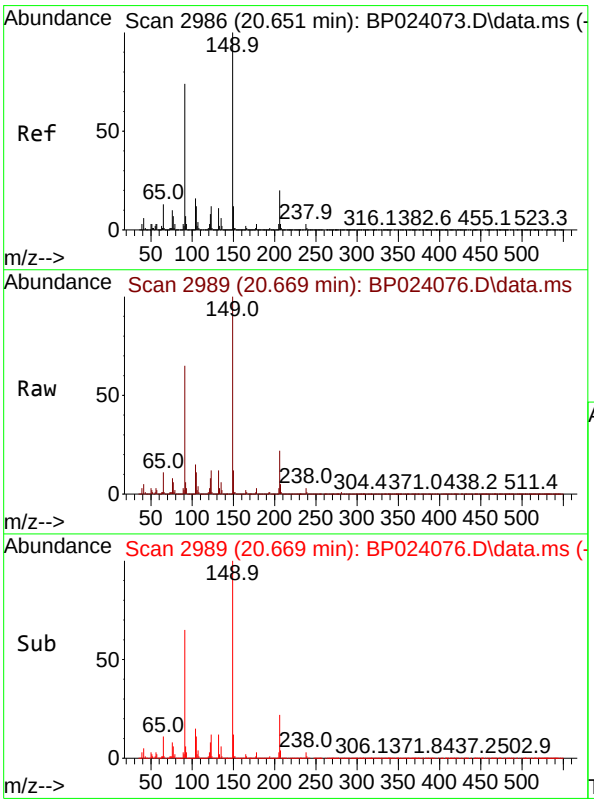
Ion	Ratio	Lower	Upper
244	100		
212	7.9	5.9	8.9
122	12.3	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

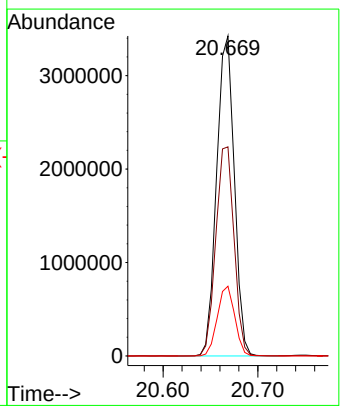
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

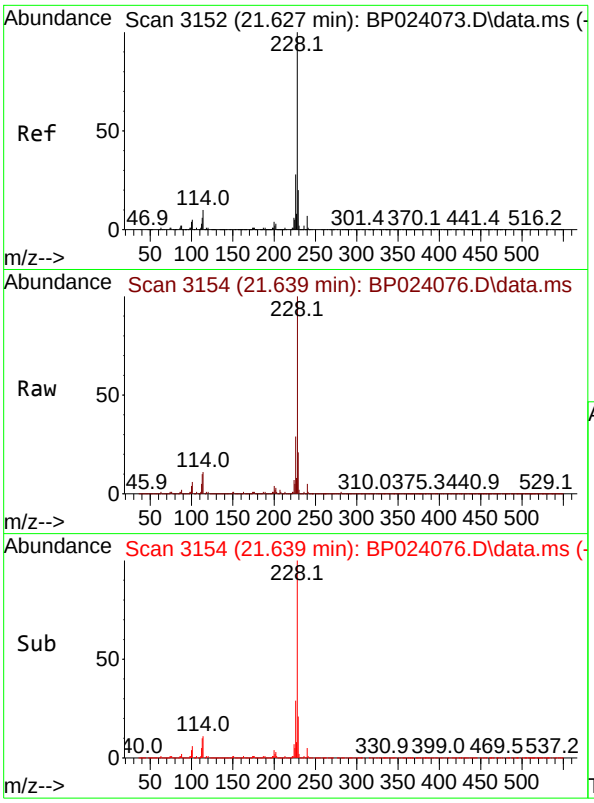


#80
Butylbenzylphthalate
Concen: 95.894 ng
RT: 20.669 min Scan# 2989
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:149 Resp: 4453020

Ion	Ratio	Lower	Upper
149	100		
91	65.3	59.4	89.0
206	21.8	16.2	24.2

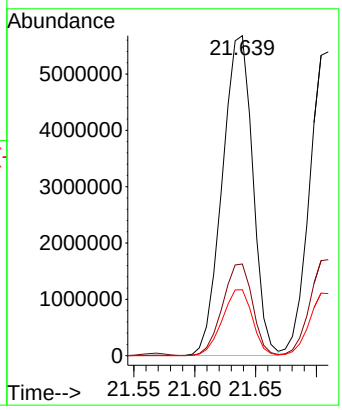




#81
Benzo(a)anthracene
Concen: 82.588 ng
RT: 21.639 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:228 Resp: 988006

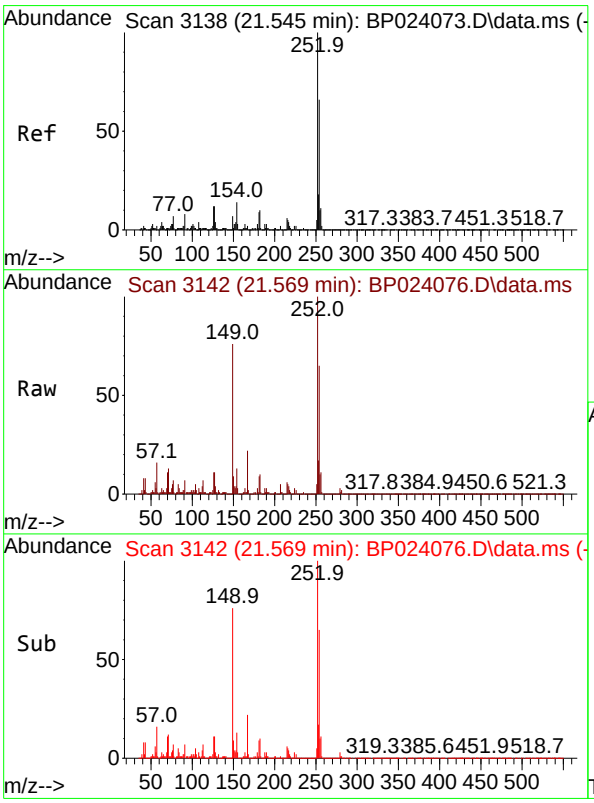
Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.2	33.4
229	20.6	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

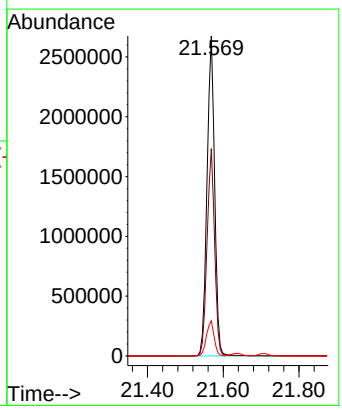
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

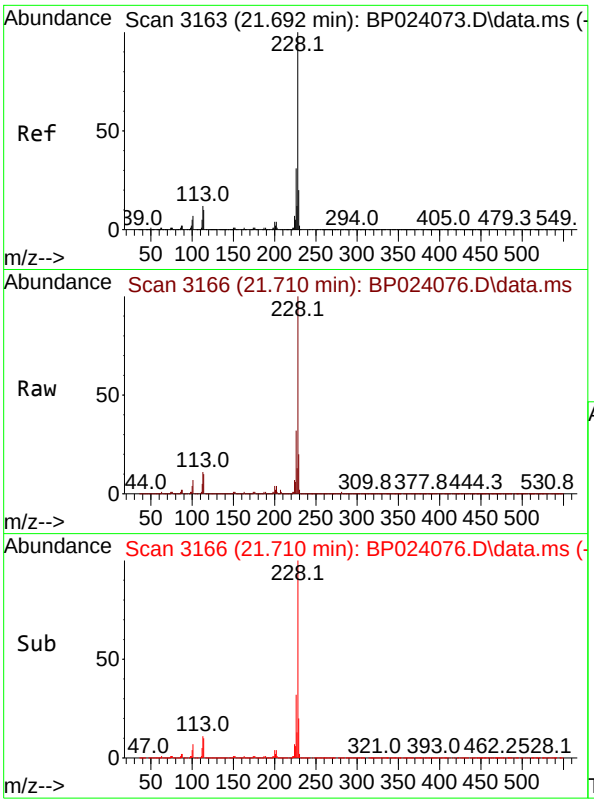


#82
3,3'-Dichlorobenzidine
Concen: 99.221 ng
RT: 21.569 min Scan# 3142
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:252 Resp: 3709136

Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.4	78.6
126	11.0	9.6	14.4

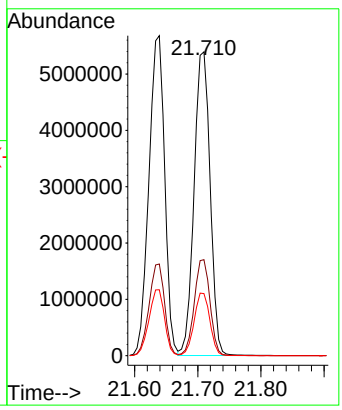




#83
Chrysene
Concen: 82.499 ng
RT: 21.710 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:228 Resp: 9516779

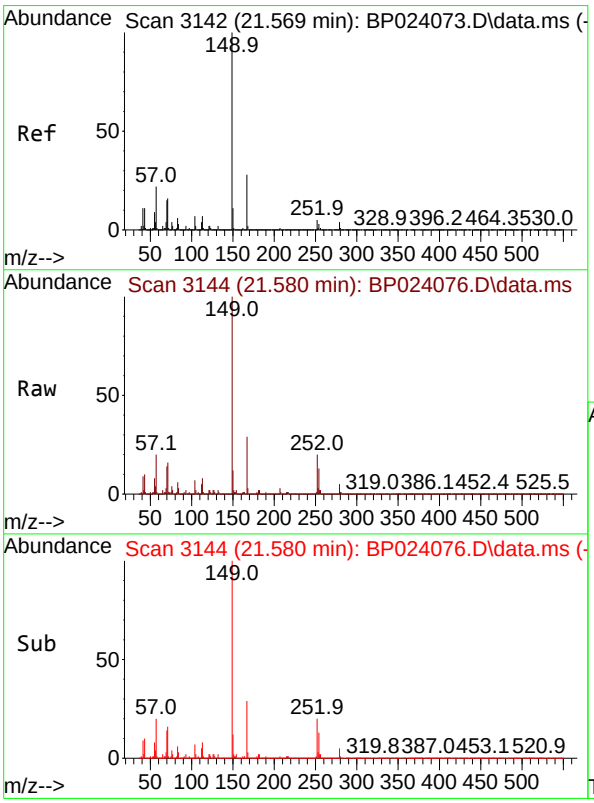
Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.5	36.7
229	20.4	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

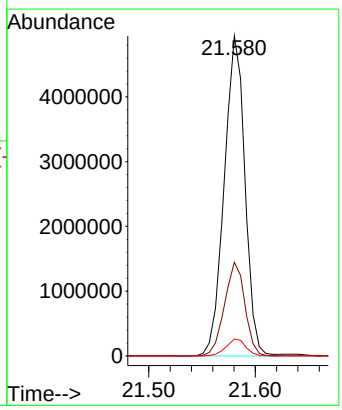
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

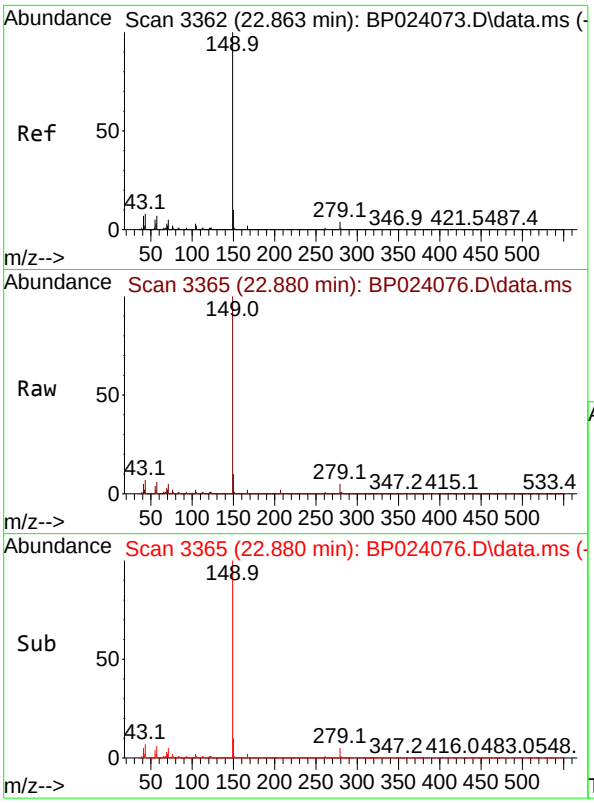


#84
Bis(2-ethylhexyl)phthalate
Concen: 94.805 ng
RT: 21.580 min Scan# 3144
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:149 Resp: 6676000

Ion	Ratio	Lower	Upper
149	100		
167	29.3	22.2	33.2
279	5.3	3.6	5.4

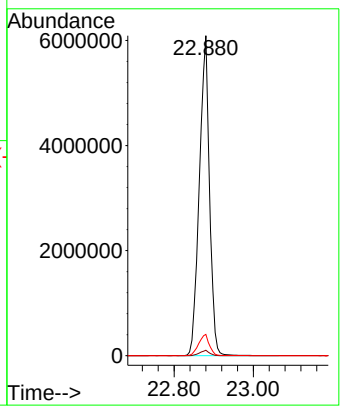




#85
Di-n-octyl phthalate
Concen: 96.020 ng
RT: 22.880 min Scan# 3
Delta R.T. 0.017 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:149 Resp:1080777

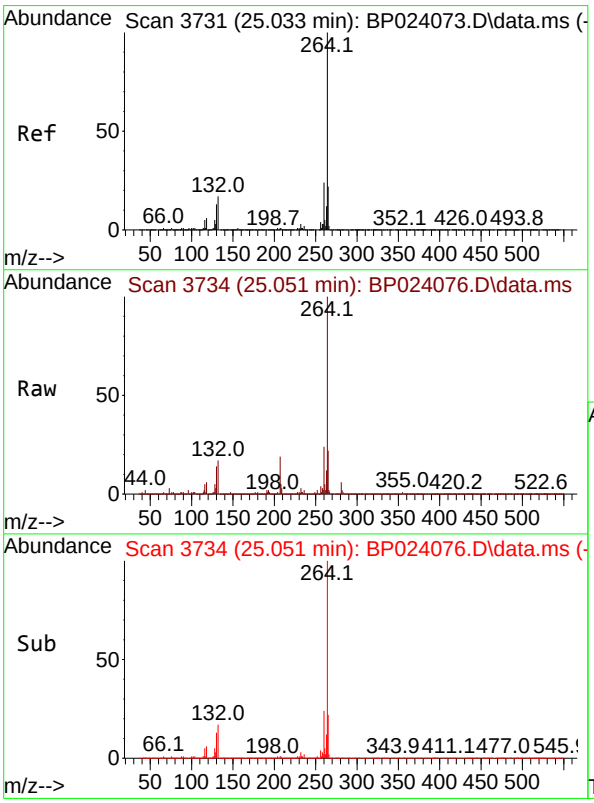
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.0	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

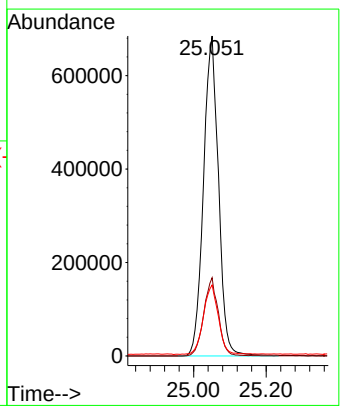
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

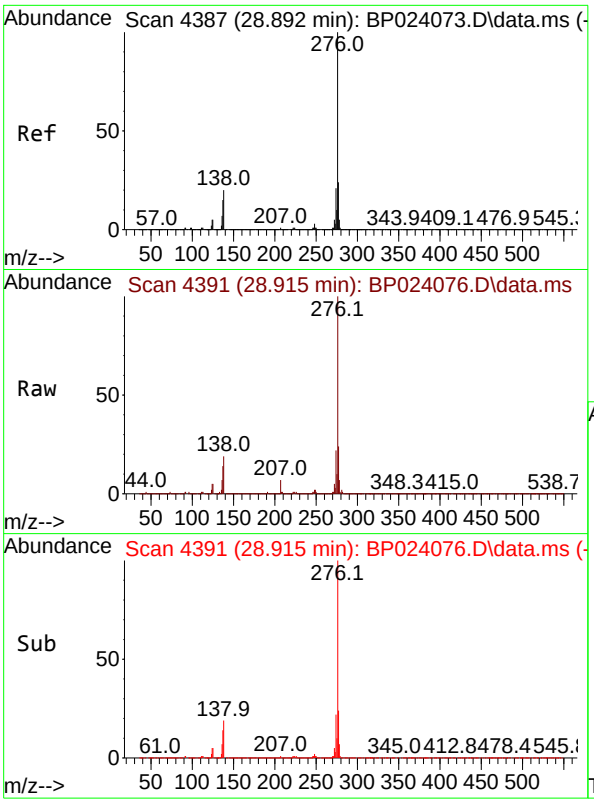


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.051 min Scan# 3734
Delta R.T. 0.018 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:264 Resp: 1963234

Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.0	28.6
265	22.2	17.8	26.8

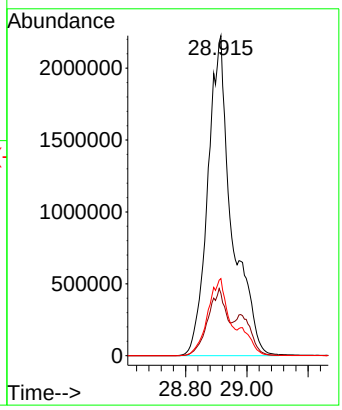




#87
Indeno(1,2,3-cd)pyrene
Concen: 86.749 ng m
RT: 28.915 min Scan# 4
Delta R.T. 0.023 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:276 Resp:1212178

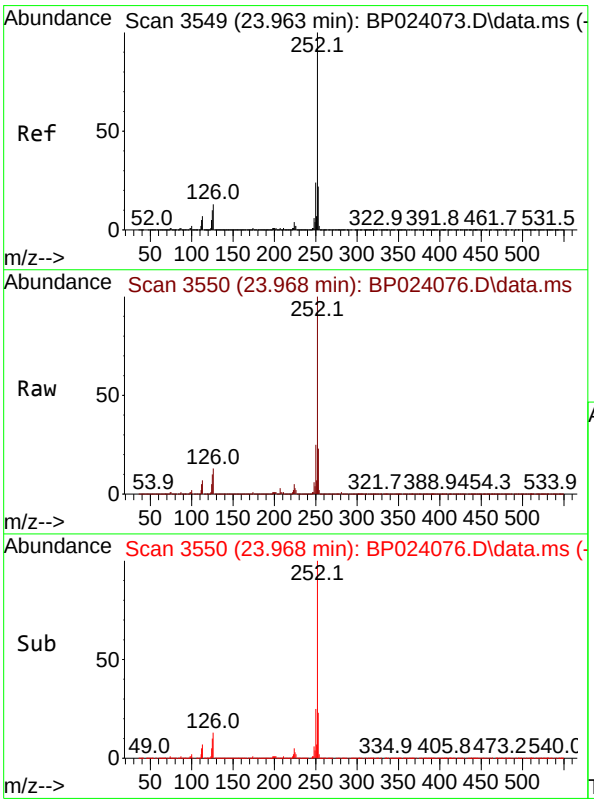
Ion	Ratio	Lower	Upper
276	100		
138	16.5	14.2	21.4
277	20.7	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

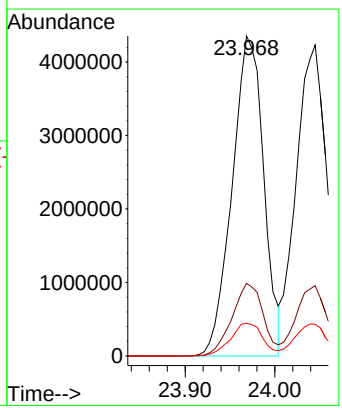
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

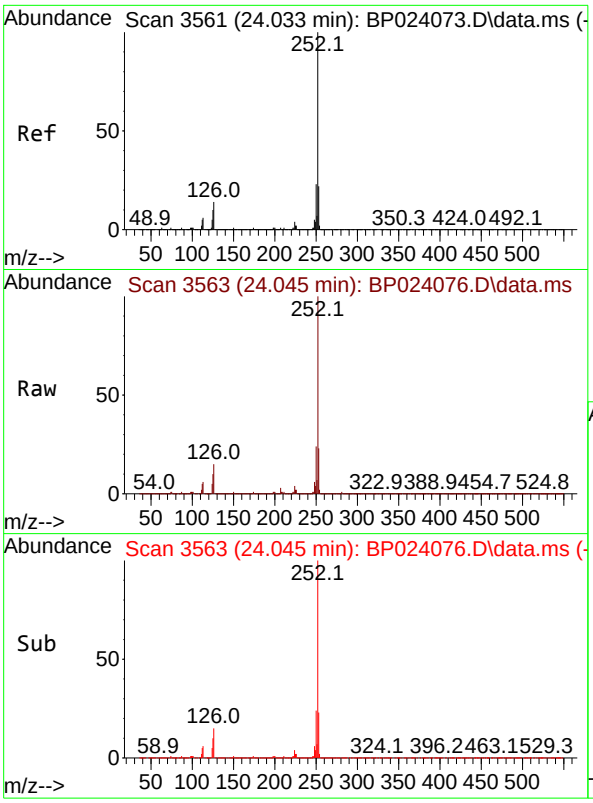


#88
Benzo(b)fluoranthene
Concen: 85.374 ng
RT: 23.968 min Scan# 3550
Delta R.T. 0.006 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:252 Resp:10643647

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	10.2	8.4	12.6

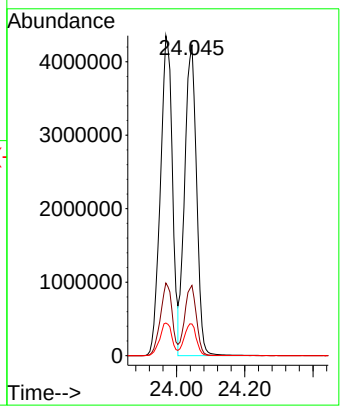




#89
Benzo(k)fluoranthene
Concen: 84.108 ng
RT: 24.045 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:252 Resp:1020641

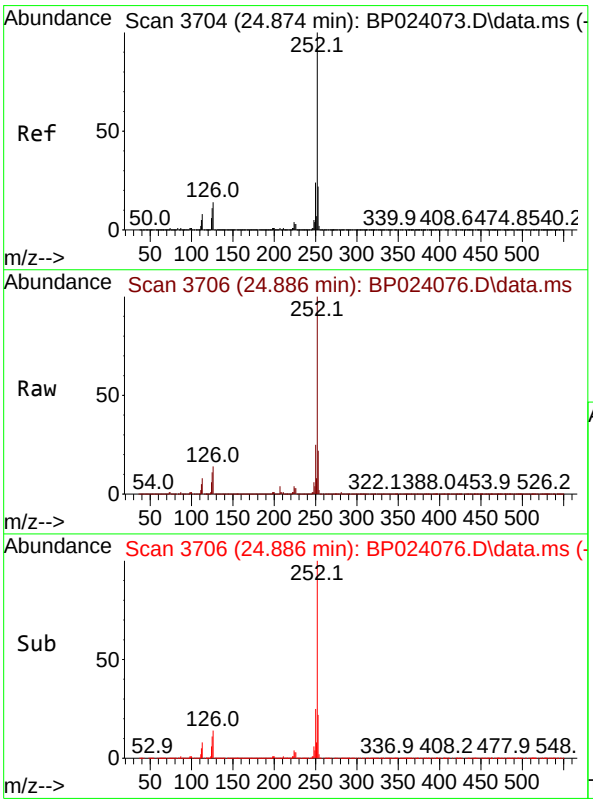
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	10.2	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

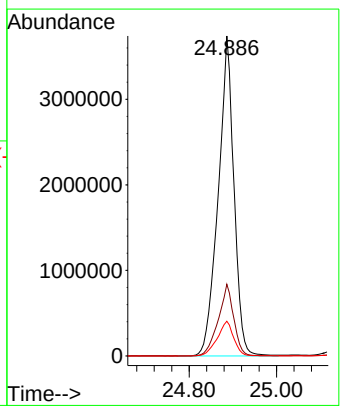
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

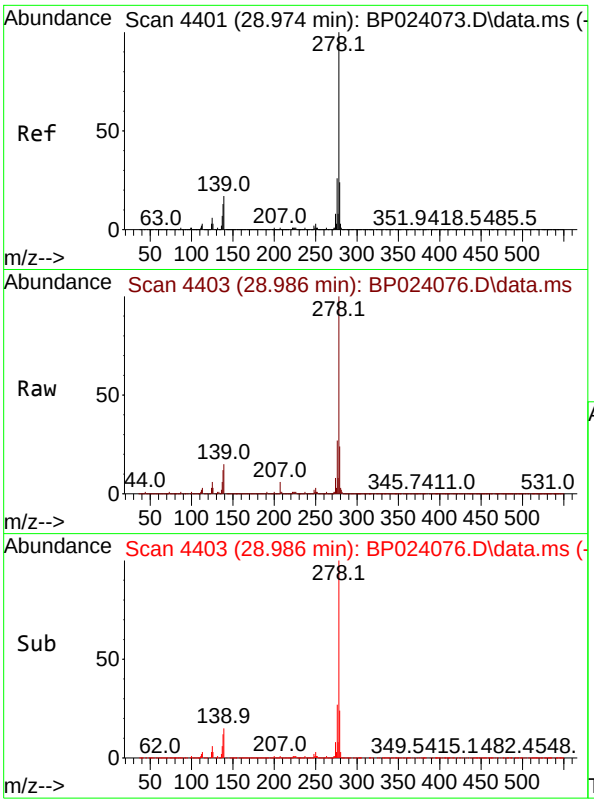


#90
Benzo(a)pyrene
Concen: 88.018 ng
RT: 24.886 min Scan# 3706
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:252 Resp: 9312588

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	10.9	8.8	13.2

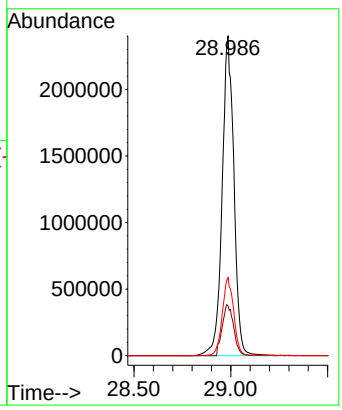




#91
Dibenzo(a,h)anthracene
Concen: 86.278 ng
RT: 28.986 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:278 Resp:1013202

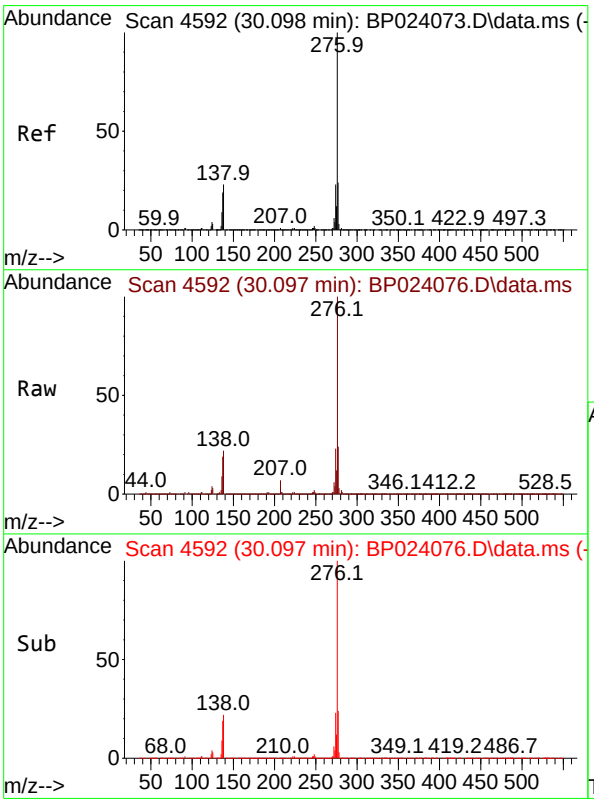
Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.4	20.0
279	24.4	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

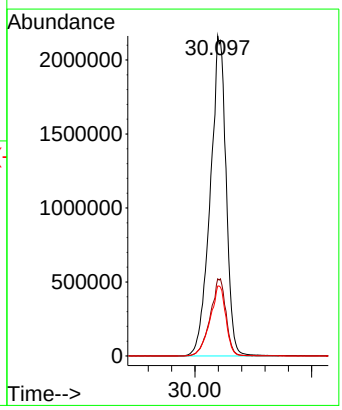
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025



#92
Benzo(g,h,i)perylene
Concen: 85.238 ng
RT: 30.097 min Scan# 4592
Delta R.T. -0.000 min
Lab File: BP024076.D
Acq: 17 Feb 2025 16:14

Tgt Ion:276 Resp:10157572

Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.9	28.3
138	21.9	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.757	152	369369	20.000	ng		0.00
21) Naphthalene-d8	10.540	136	1519215	20.000	ng		0.00
39) Acenaphthene-d10	14.386	164	907441	20.000	ng		0.00
64) Phenanthrene-d10	17.198	188	1700373	20.000	ng		0.01
76) Chrysene-d12	21.651	240	1807335	20.000	ng		0.00
86) Perylene-d12	25.033	264	1932598	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2062583	87.132	ng		0.00
7) Phenol-d6	6.946	99	2688192	88.355	ng		0.00
23) Nitrobenzene-d5	8.904	82	2298841	84.418	ng		0.00
42) 2,4,6-Tribromophenol	15.904	330	1021981	91.945	ng		0.00
45) 2-Fluorobiphenyl	13.004	172	5412147	83.379	ng		0.00
79) Terphenyl-d14	19.927	244	7828871	85.714	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.311	88	392331	42.249	ng		100
3) Pyridine	3.711	79	1080542	44.756	ng		100
4) n-Nitrosodimethylamine	3.616	42	364113	42.517	ng		99
6) Aniline	7.099	93	1247850	44.785	ng		99
8) 2-Chlorophenol	7.334	128	1105440	44.120	ng		99
9) Benzaldehyde	6.910	77	602790	43.395	ng		99
10) Phenol	6.969	94	1330029	43.473	ng		99
11) bis(2-Chloroethyl)ether	7.193	93	1035252	42.962	ng		99
12) 1,3-Dichlorobenzene	7.652	146	1178294	42.808	ng		99
13) 1,4-Dichlorobenzene	7.799	146	1192250	42.831	ng		99
14) 1,2-Dichlorobenzene	8.110	146	1149716	43.037	ng		100
15) Benzyl Alcohol	7.999	79	848136	45.541	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.281	45	1012036	43.264	ng		99
17) 2-Methylphenol	8.204	107	844851	45.315	ng		99
18) Hexachloroethane	8.834	117	434741	43.366	ng		99
19) n-Nitroso-di-n-propyla...	8.557	70	760762	46.505	ng		99
20) 3+4-Methylphenols	8.528	107	1153262	45.470	ng		99
22) Acetophenone	8.575	105	1638160	41.961	ng	#	100
24) Nitrobenzene	8.946	77	1124849	41.972	ng		99
25) Isophorone	9.475	82	1971401	44.270	ng		100
26) 2-Nitrophenol	9.651	139	563528	45.641	ng		99
27) 2,4-Dimethylphenol	9.716	122	711081	43.873	ng		98
28) bis(2-Chloroethoxy)met...	9.945	93	1373405	42.573	ng		99
29) 2,4-Dichlorophenol	10.193	162	992500	44.872	ng		99
30) 1,2,4-Trichlorobenzene	10.398	180	1066046	42.066	ng		98
31) Naphthalene	10.587	128	3406740	41.704	ng		99
32) Benzoic acid	9.857	122	691485	41.807	ng		96
33) 4-Chloroaniline	10.698	127	1248446	43.382	ng		98
34) Hexachlorobutadiene	10.875	225	616661	42.012	ng		99
35) Caprolactam	11.487	113	308093	42.126	ng		98
36) 4-Chloro-3-methylphenol	11.828	107	1026676	45.153	ng		96
37) 2-Methylnaphthalene	12.198	142	2329759	42.910	ng		99
38) 1-Methylnaphthalene	12.416	142	2272415	43.023	ng		100
40) 1,2,4,5-Tetrachloroben...	12.569	216	1163331	41.724	ng		100
41) Hexachlorocyclopentadiene	12.551	237	439957	42.405	ng		100
43) 2,4,6-Trichlorophenol	12.810	196	754219	44.356	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.892	196	805715	43.327	ng	99
46) 1,1'-Biphenyl	13.216	154	2949815	41.833	ng	99
47) 2-Chloronaphthalene	13.257	162	2202458	41.318	ng	100
48) 2-Nitroaniline	13.457	65	565891	44.942	ng	97
49) Acenaphthylene	14.110	152	3362770	42.818	ng	99
50) Dimethylphthalate	13.845	163	2758051	43.088	ng	100
51) 2,6-Dinitrotoluene	13.957	165	582215	44.652	ng	99
52) Acenaphthene	14.451	154	2140376	42.322	ng	100
53) 3-Nitroaniline	14.292	138	635206	45.653	ng	98
54) 2,4-Dinitrophenol	14.498	184	309649	40.297	ng	99
55) Dibenzofuran	14.792	168	3442443	41.901	ng	100
56) 4-Nitrophenol	14.616	139	540455	44.967	ng	98
57) 2,4-Dinitrotoluene	14.751	165	774194	45.707	ng	98
58) Fluorene	15.451	166	2751052	42.876	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.028	232	716949	44.437	ng	100
60) Diethylphthalate	15.228	149	2749096	43.265	ng	100
61) 4-Chlorophenyl-phenyle...	15.445	204	1342026	42.494	ng	100
62) 4-Nitroaniline	15.480	138	672079	41.293	ng	98
63) Azobenzene	15.745	77	2556961	42.943	ng	97
65) 4,6-Dinitro-2-methylph...	15.533	198	431818	40.594	ng	99
66) n-Nitrosodiphenylamine	15.663	169	2254420	42.516	ng	100
67) 4-Bromophenyl-phenylether	16.363	248	815220	42.694	ng	96
68) Hexachlorobenzene	16.486	284	939238	41.804	ng	98
69) Atrazine	16.651	200	645577	47.441	ng	99
70) Pentachlorophenol	16.839	266	638293	43.741	ng	99
71) Phenanthrene	17.239	178	4005747	41.785	ng	100
72) Anthracene	17.333	178	3979469	43.318	ng	99
73) Carbazole	17.616	167	3858761	44.086	ng	99
74) Di-n-butylphthalate	18.216	149	4595361	44.995	ng	100
75) Fluoranthene	19.333	202	4617456	42.584	ng	99
77) Benzidine	19.521	184	1077091	48.907	ng	100
78) Pyrene	19.710	202	4872748	42.445	ng	100
80) Butylbenzylphthalate	20.663	149	1991572	45.272	ng	96
81) Benzo(a)anthracene	21.633	228	4832498	42.641	ng	100
82) 3,3'-Dichlorobenzidine	21.557	252	1651904	46.646	ng	98
83) Chrysene	21.704	228	4564716	41.771	ng	100
84) Bis(2-ethylhexyl)phtha...	21.580	149	3031786	45.448	ng	99
85) Di-n-octyl phthalate	22.874	149	4609915	43.233	ng	99
87) Indeno(1,2,3-cd)pyrene	28.868	276	5692411m	41.403	ng	
88) Benzo(b)fluoranthene	23.974	252	5004416	40.777	ng	100
89) Benzo(k)fluoranthene	24.039	252	4859842	40.683	ng	99
90) Benzo(a)pyrene	24.874	252	4481682	43.030	ng	99
91) Dibenzo(a,h)anthracene	28.968	278	4719923	40.829	ng	99
92) Benzo(g,h,i)perylene	30.091	276	4793937	40.867	ng	100

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

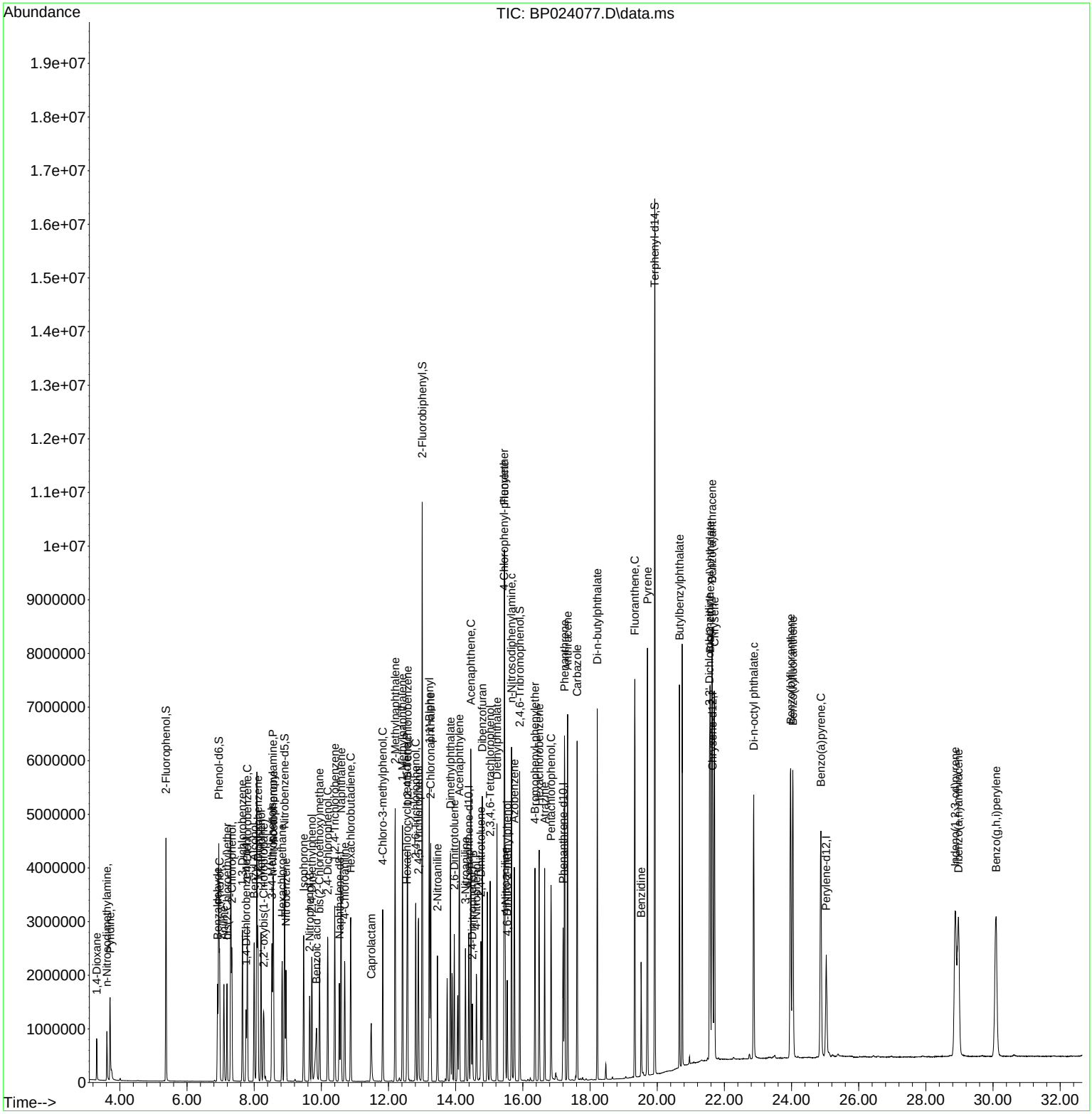
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

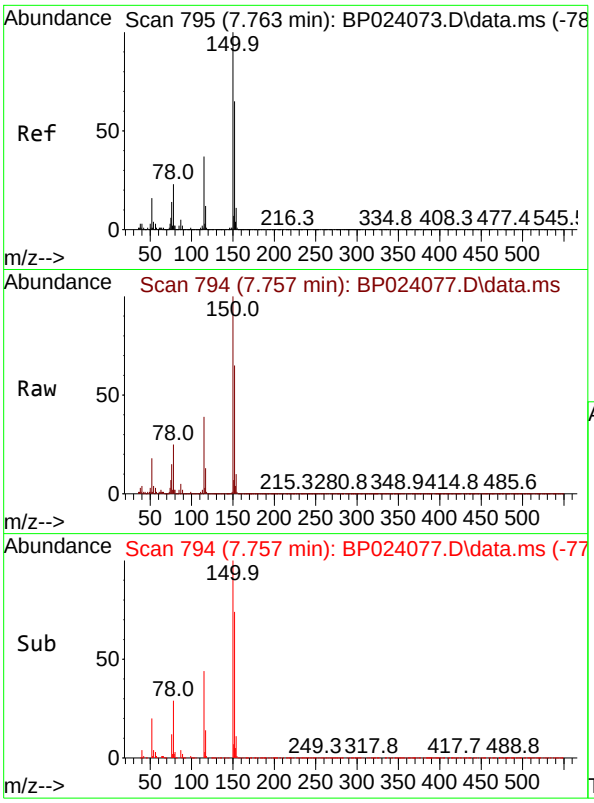
Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

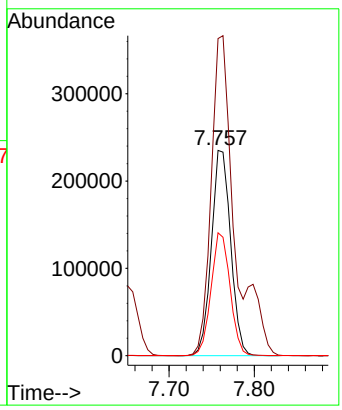




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:152 Resp: 36936

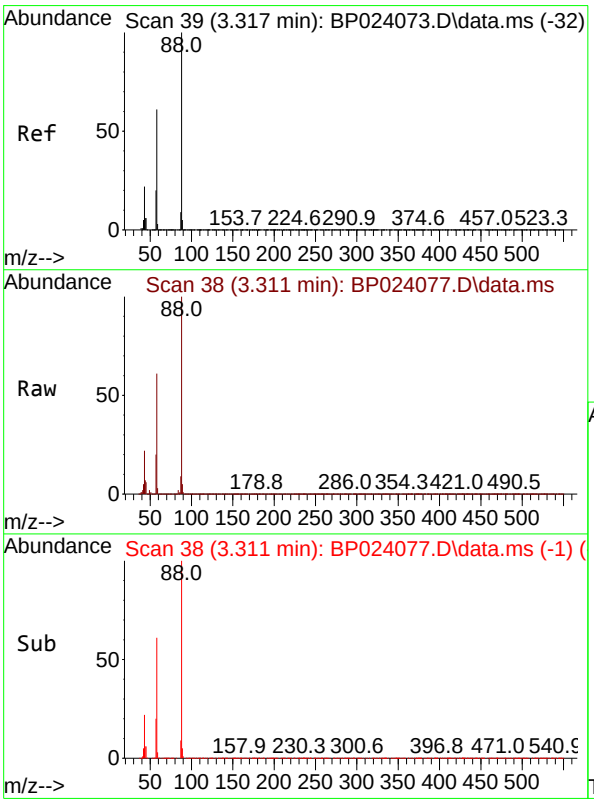
Ion	Ratio	Lower	Upper
152	100		
150	154.4	122.4	183.6
115	59.8	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

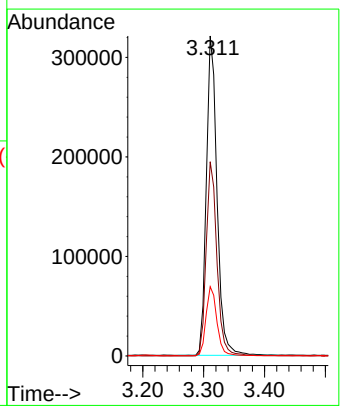
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

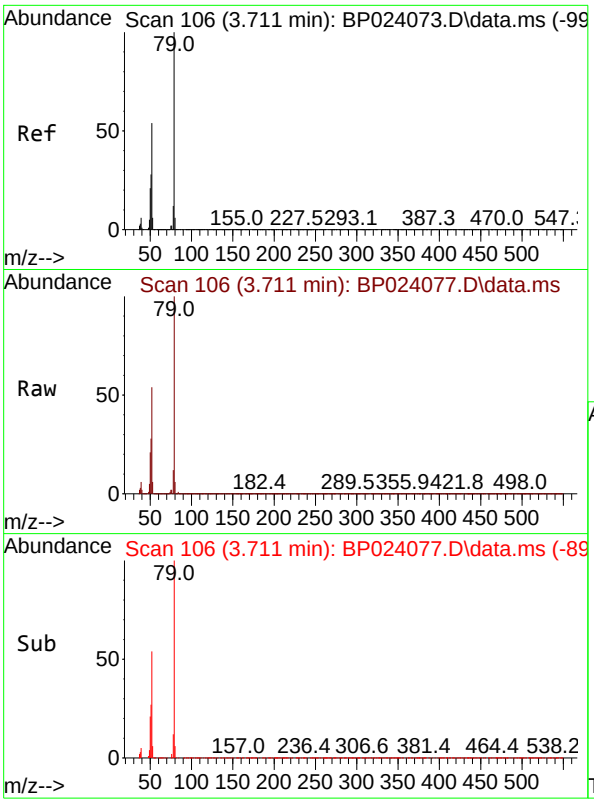


#2
1,4-Dioxane
Concen: 42.249 ng
RT: 3.311 min Scan# 38
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 88 Resp: 392331

Ion	Ratio	Lower	Upper
88	100		
58	61.3	49.1	73.7
43	21.9	18.0	27.0

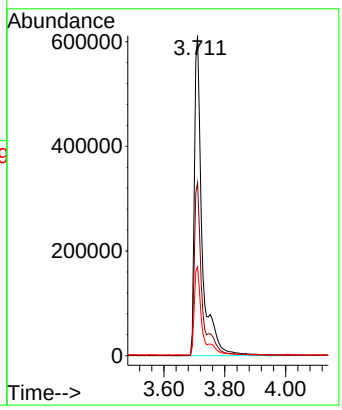




#3
Pyridine
Concen: 44.756 ng
RT: 3.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 79 Resp: 108054

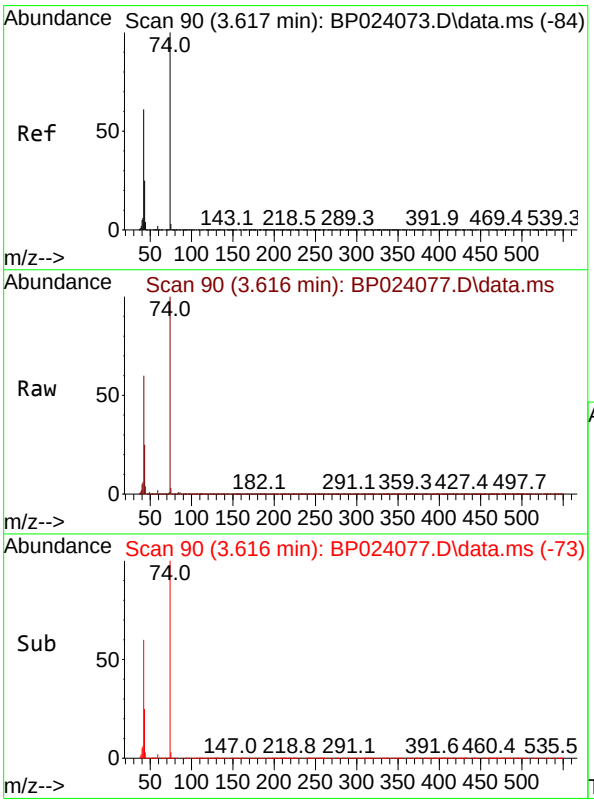
Ion	Ratio	Lower	Upper
79	100		
52	54.0	43.5	65.3
51	27.7	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

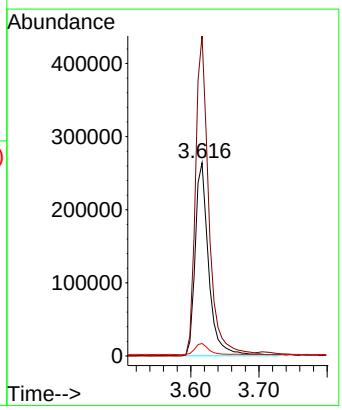
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

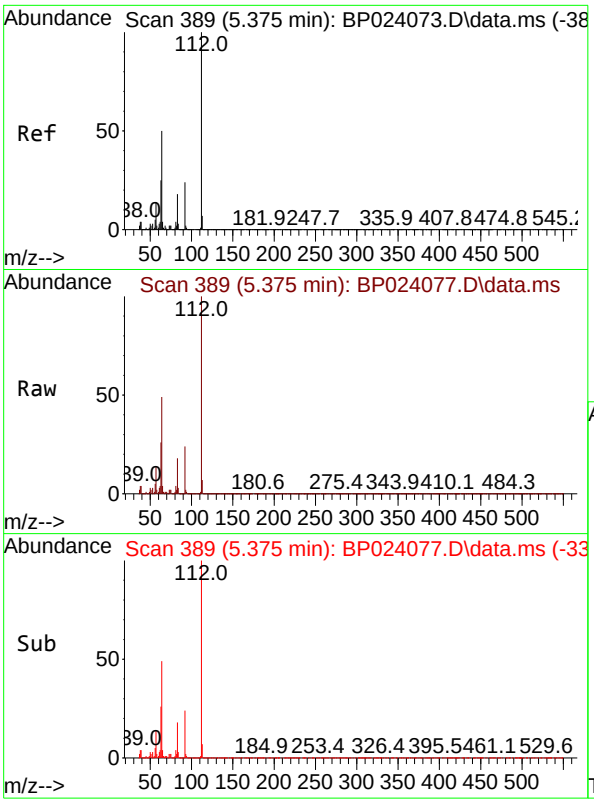


#4
n-Nitrosodimethylamine
Concen: 42.517 ng
RT: 3.616 min Scan# 90
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 42 Resp: 364113

Ion	Ratio	Lower	Upper
42	100		
74	165.8	132.0	198.0
44	6.5	5.3	7.9

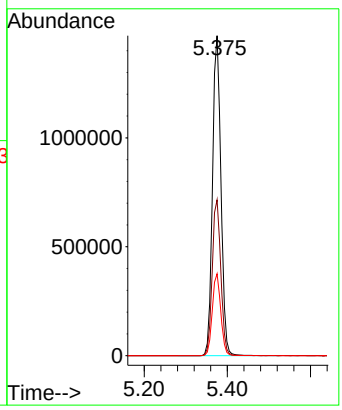




#5
2-Fluorophenol
Concen: 87.132 ng
RT: 5.375 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:112 Resp: 206258

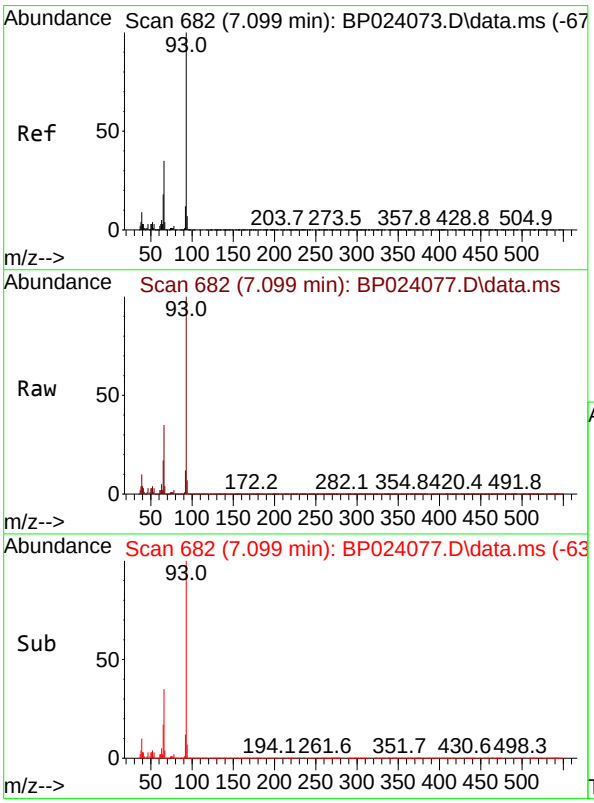
Ion	Ratio	Lower	Upper
112	100		
64	48.7	39.6	59.4
63	25.6	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

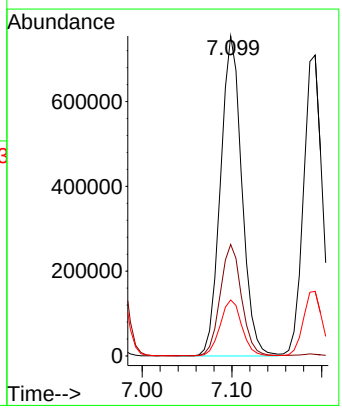
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

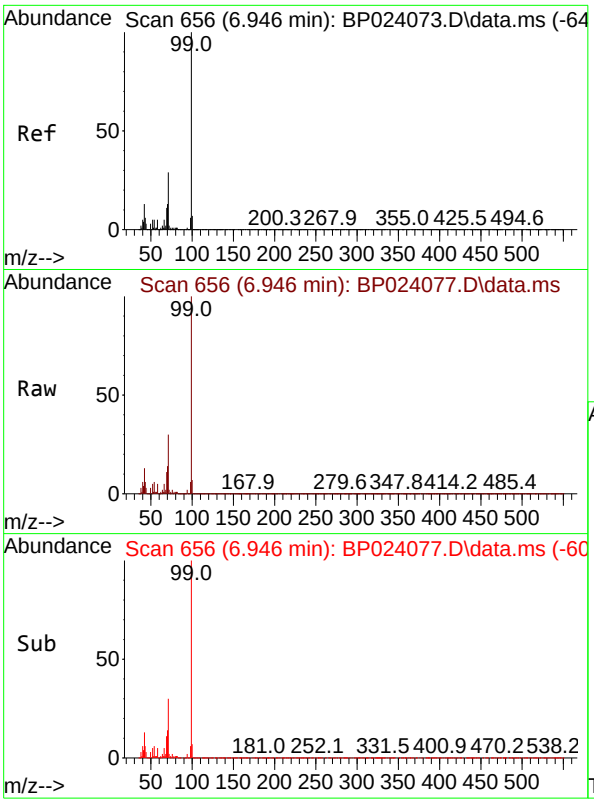


#6
Aniline
Concen: 44.785 ng
RT: 7.099 min Scan# 682
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 93 Resp: 1247850

Ion	Ratio	Lower	Upper
93	100		
66	34.9	28.2	42.4
65	17.5	14.1	21.1

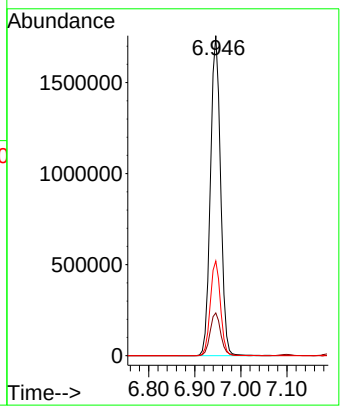




#7
Phenol-d6
Concen: 88.355 ng
RT: 6.946 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 99 Resp: 268819

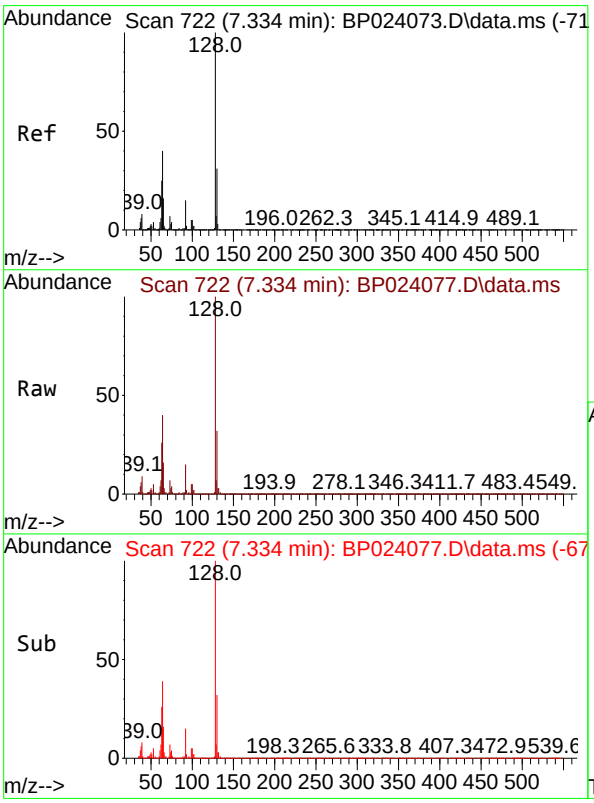
Ion	Ratio	Lower	Upper
99	100		
42	13.4	10.3	15.5
71	29.6	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

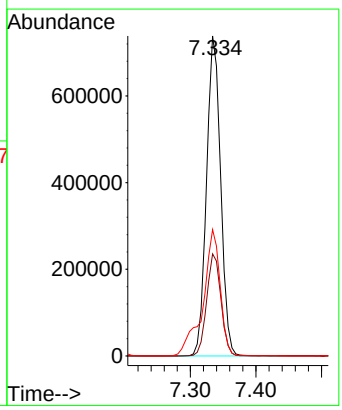
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

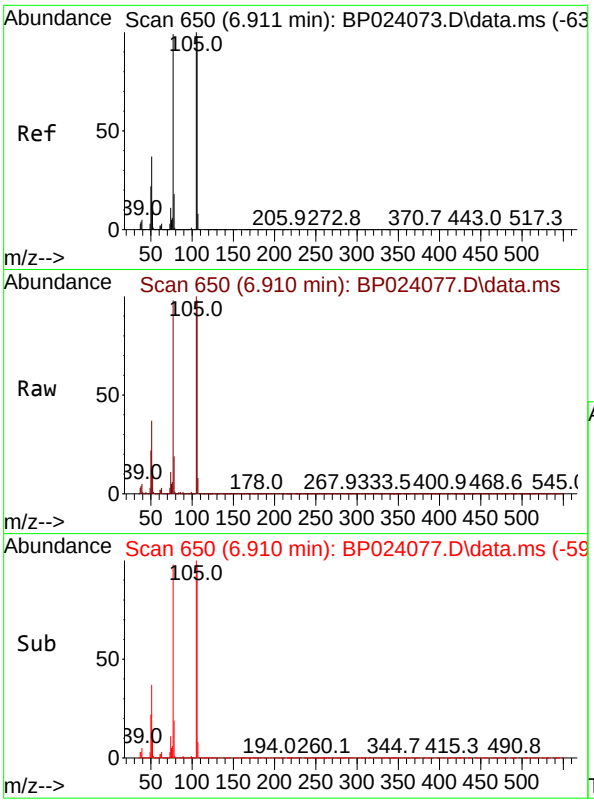


#8
2-Chlorophenol
Concen: 44.120 ng
RT: 7.334 min Scan# 722
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:128 Resp: 1105440

Ion	Ratio	Lower	Upper
128	100		
130	31.9	11.5	51.5
64	39.5	19.8	59.8

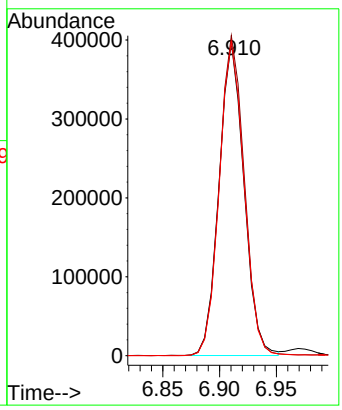




#9
Benzaldehyde
Concen: 43.395 ng
RT: 6.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 77 Resp: 60279

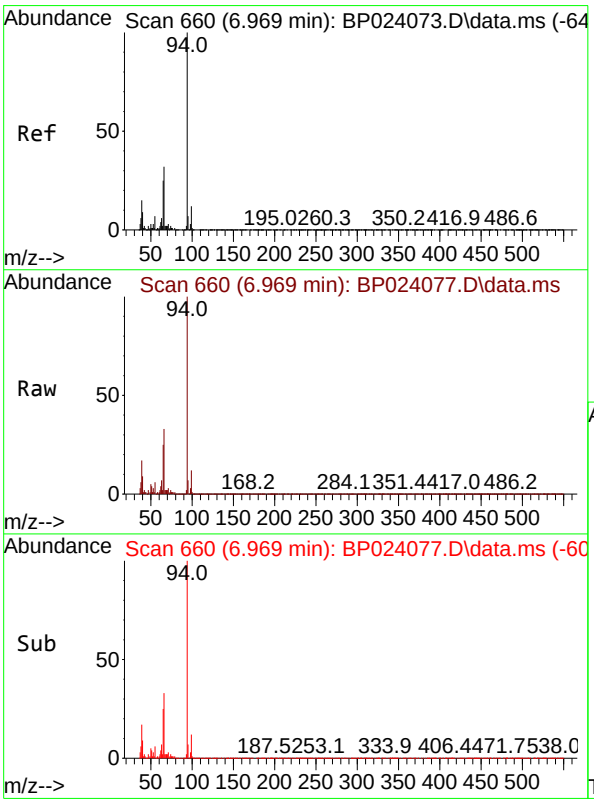
Ion	Ratio	Lower	Upper
77	100		
105	102.1	81.4	121.4
106	100.2	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

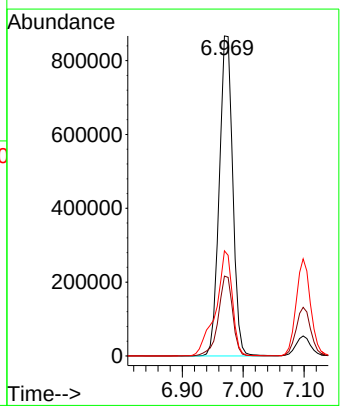
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

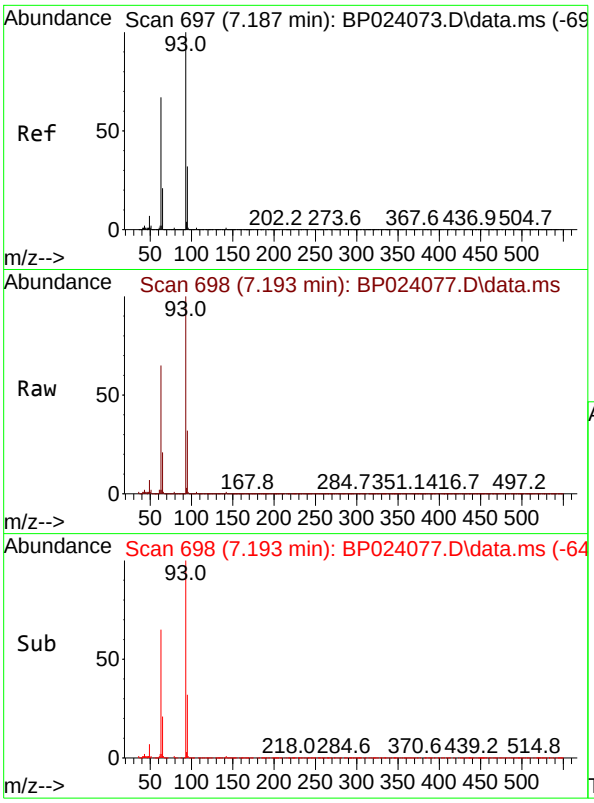


#10
Phenol
Concen: 43.473 ng
RT: 6.969 min Scan# 660
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 94 Resp: 1330029

Ion	Ratio	Lower	Upper
94	100		
65	25.0	5.0	45.0
66	32.8	11.6	51.6

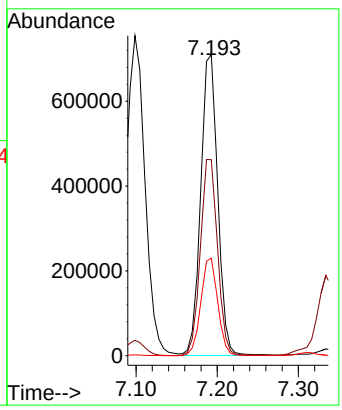




#11
bis(2-Chloroethyl)ether
Concen: 42.962 ng
RT: 7.193 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 93 Resp: 103525

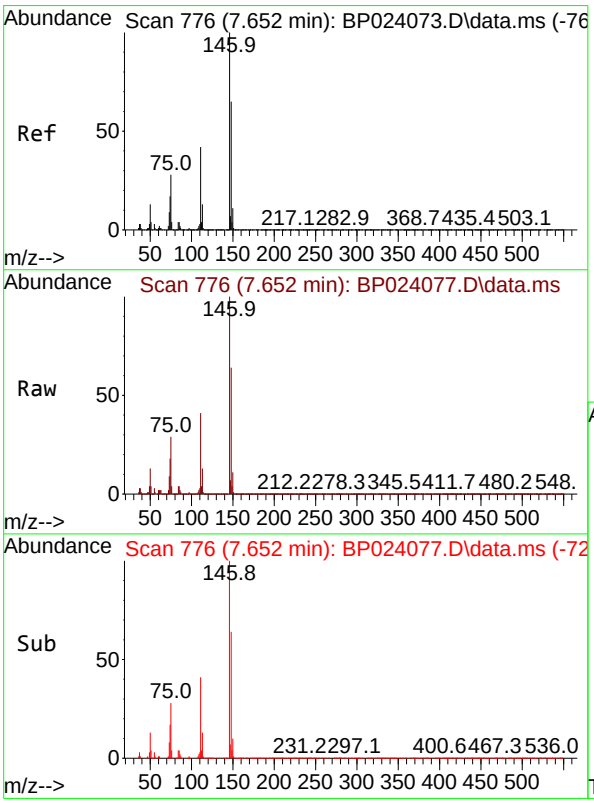
Ion	Ratio	Lower	Upper
93	100		
63	65.1	46.5	86.5
95	32.4	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

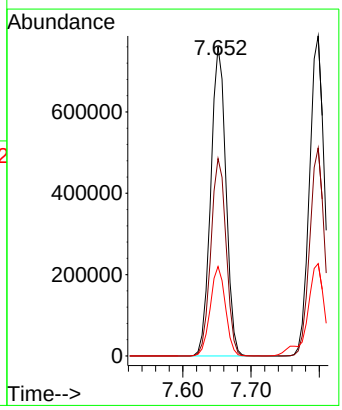
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

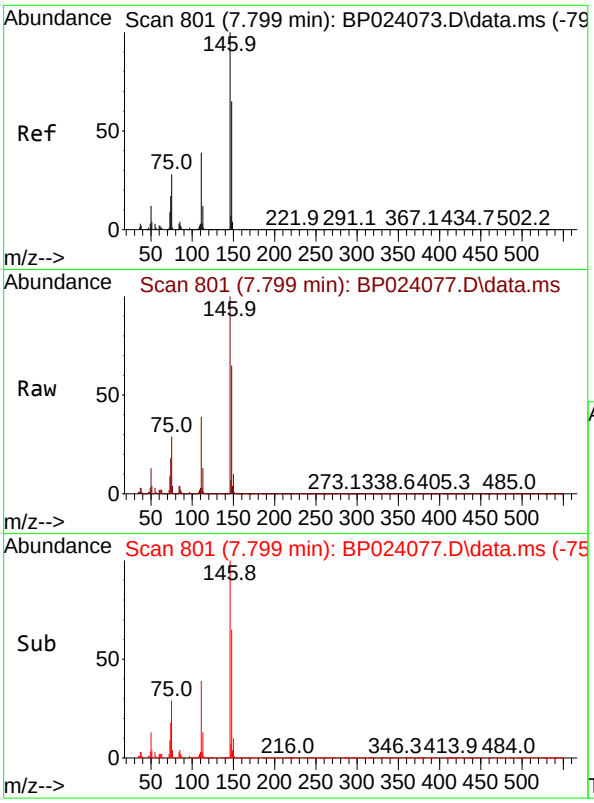


#12
1,3-Dichlorobenzene
Concen: 42.808 ng
RT: 7.652 min Scan# 776
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:146 Resp: 1178294

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.8	77.8
75	29.0	22.6	33.8

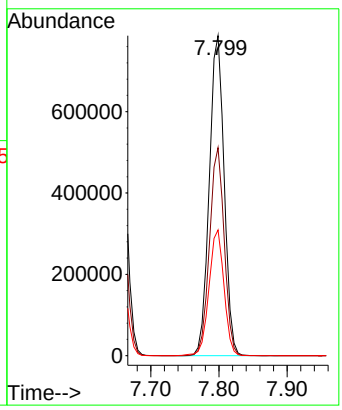




#13
1,4-Dichlorobenzene
Concen: 42.831 ng
RT: 7.799 min Scan# 8(
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:146 Resp: 119225(

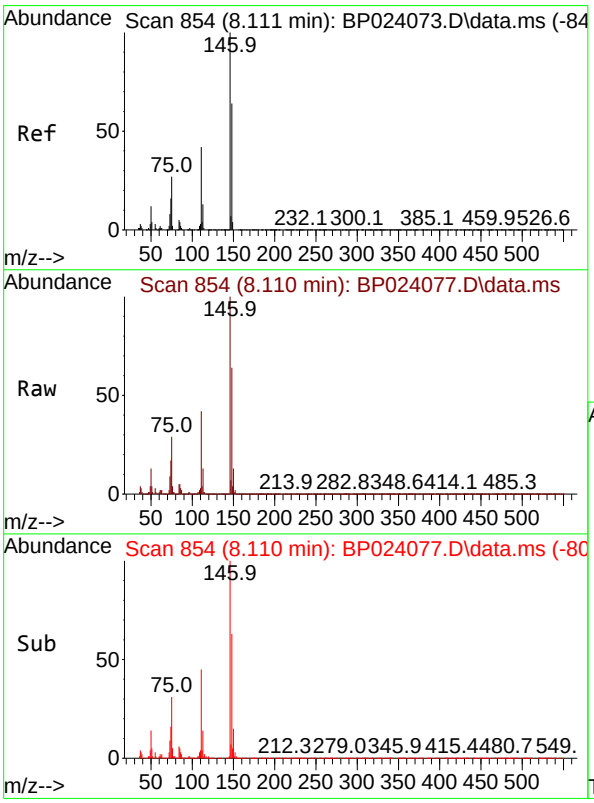
Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.6	77.4
111	39.3	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

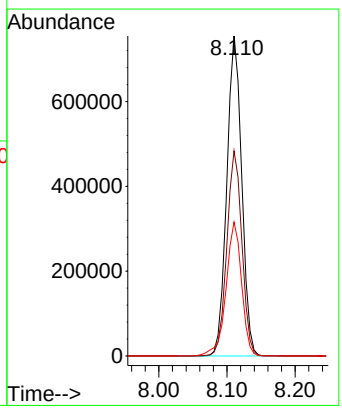
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

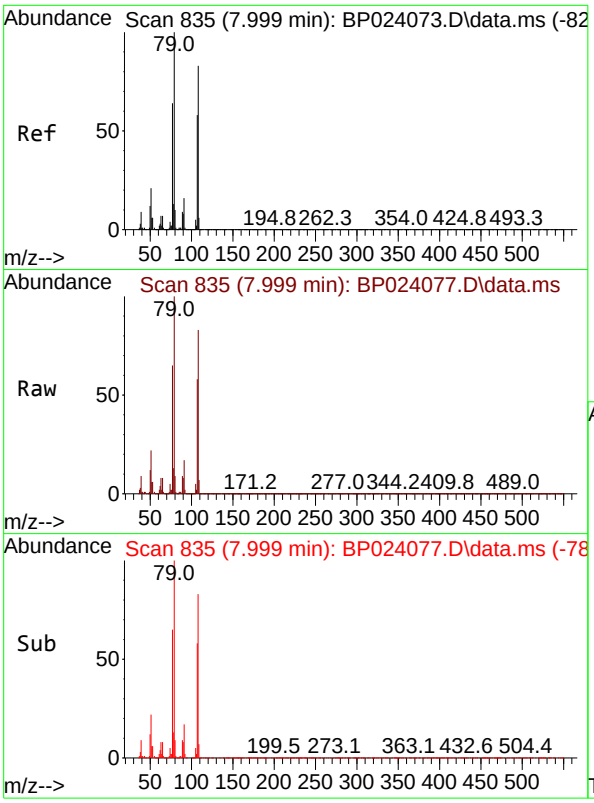


#14
1,2-Dichlorobenzene
Concen: 43.037 ng
RT: 8.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:146 Resp: 1149716

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.2	76.8
111	41.8	33.4	50.0

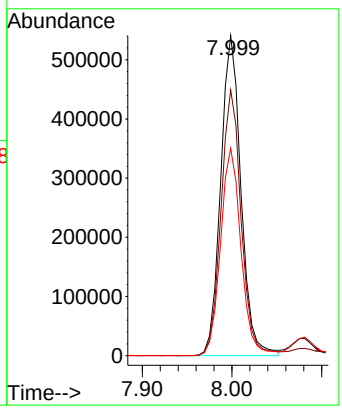




#15
Benzyl Alcohol
Concen: 45.541 ng
RT: 7.999 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 79 Resp: 84813

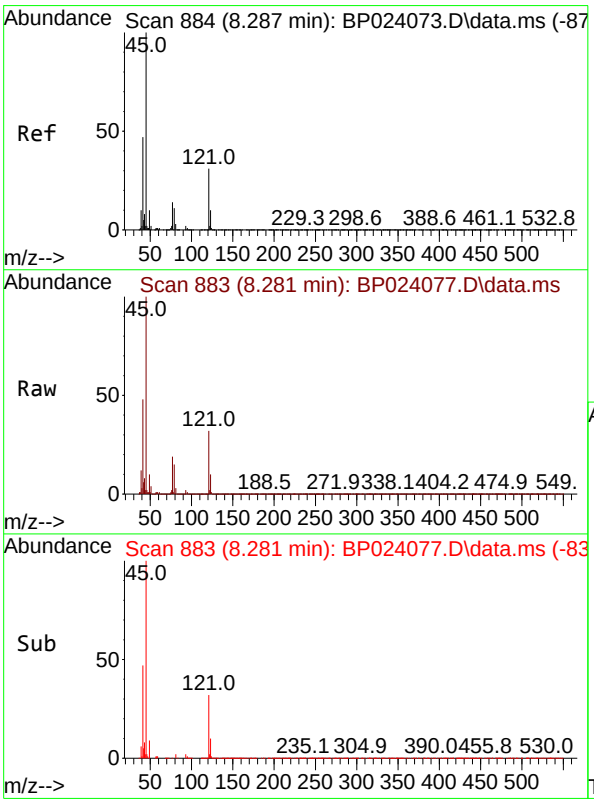
Ion	Ratio	Lower	Upper
79	100		
108	83.1	66.4	99.6
77	64.8	51.3	76.9



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

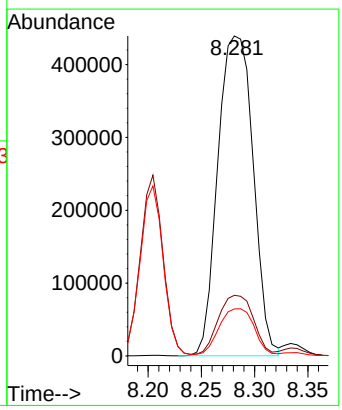
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

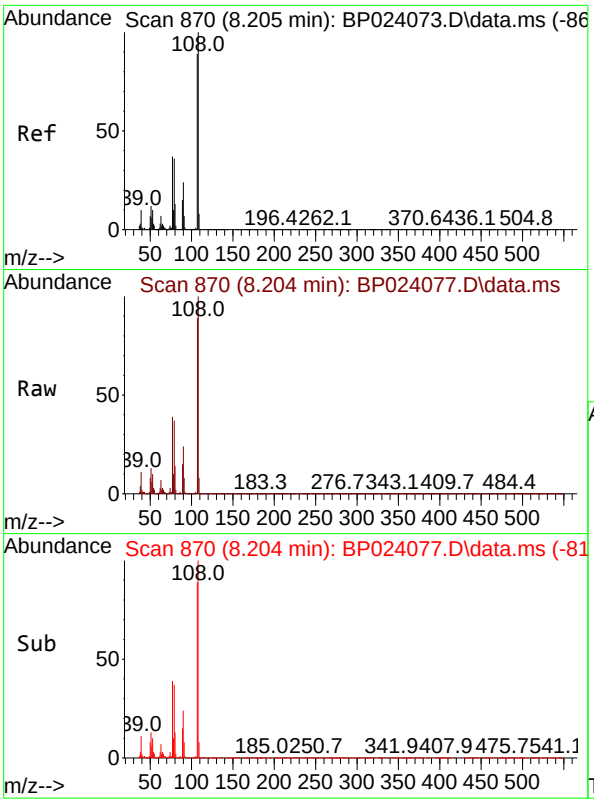


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.264 ng
RT: 8.281 min Scan# 883
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 45 Resp: 1012036

Ion	Ratio	Lower	Upper
45	100		
77	19.0	0.0	38.8
79	14.7	0.0	35.4

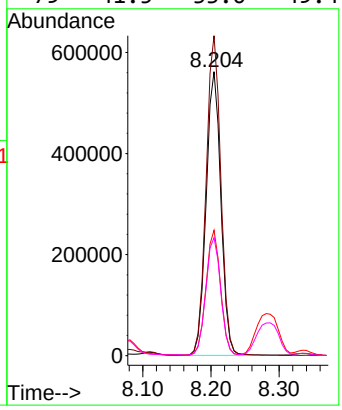




#17
2-Methylphenol
Concen: 45.315 ng
RT: 8.204 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:107 Resp: 84485

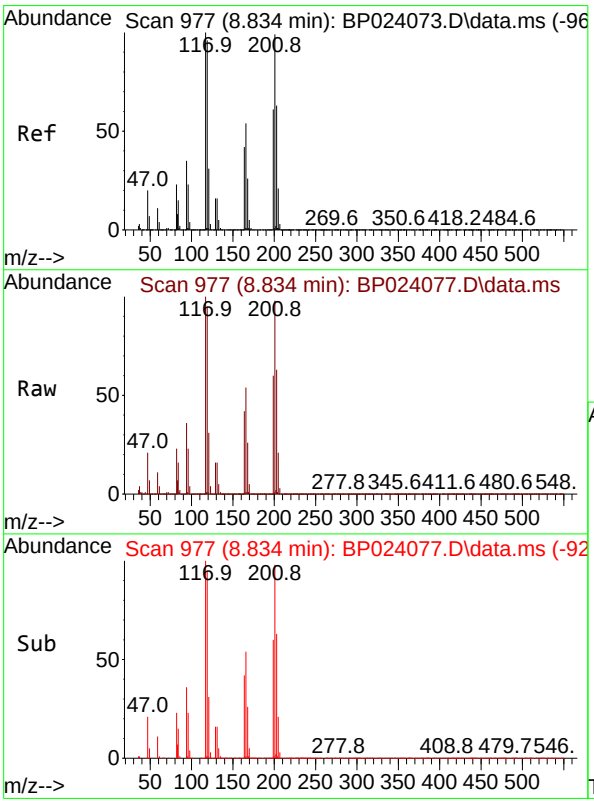
Ion	Ratio	Lower	Upper
107	100		
108	112.7	90.0	135.0
77	44.2	33.8	50.6
79	41.5	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

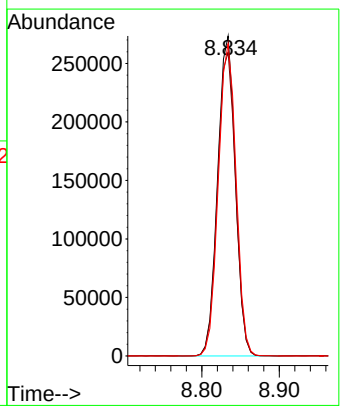
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

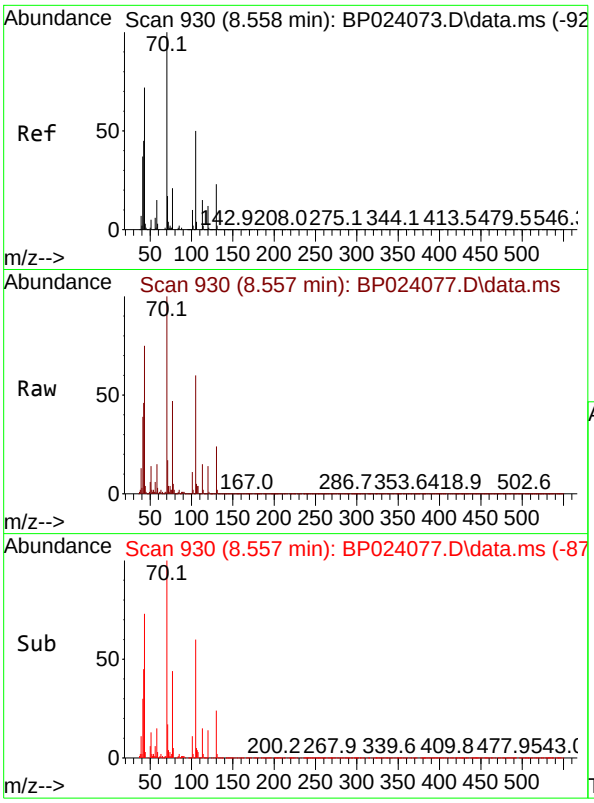


#18
Hexachloroethane
Concen: 43.366 ng
RT: 8.834 min Scan# 977
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:117 Resp: 434741

Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.9	115.3
201	97.6	79.4	119.2

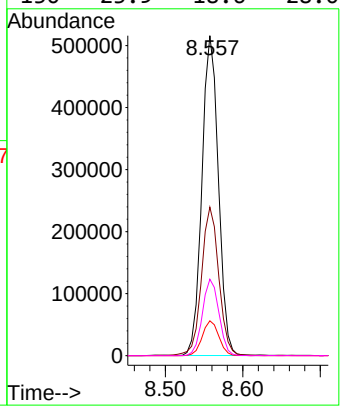




#19
n-Nitroso-di-n-propylamine
Concen: 46.505 ng
RT: 8.557 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 70 Resp: 76076

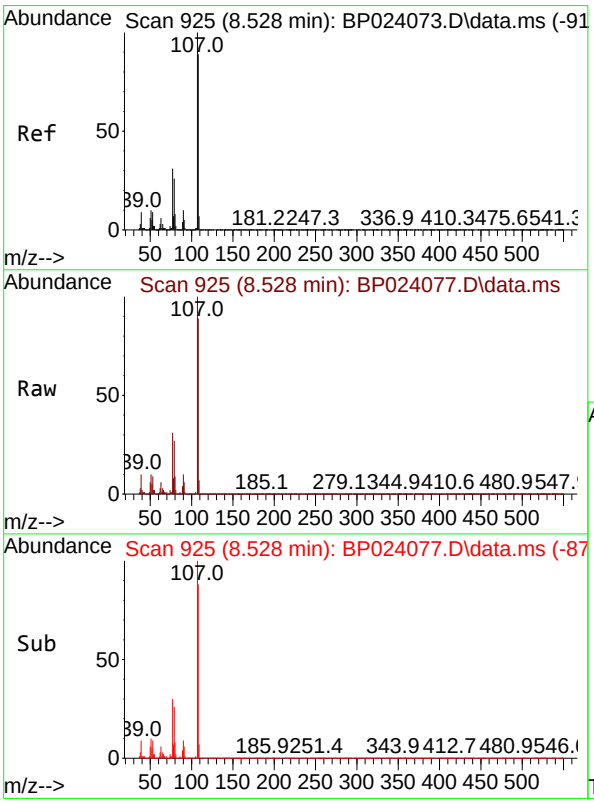
Ion	Ratio	Lower	Upper
70	100		
42	46.4	36.6	54.8
101	10.9	8.2	12.2
130	23.9	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

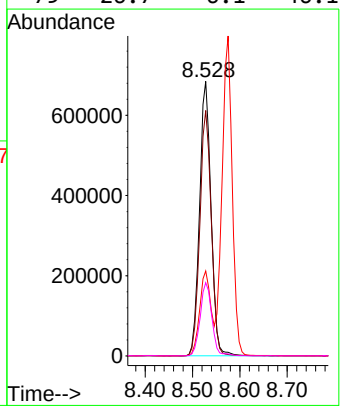
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

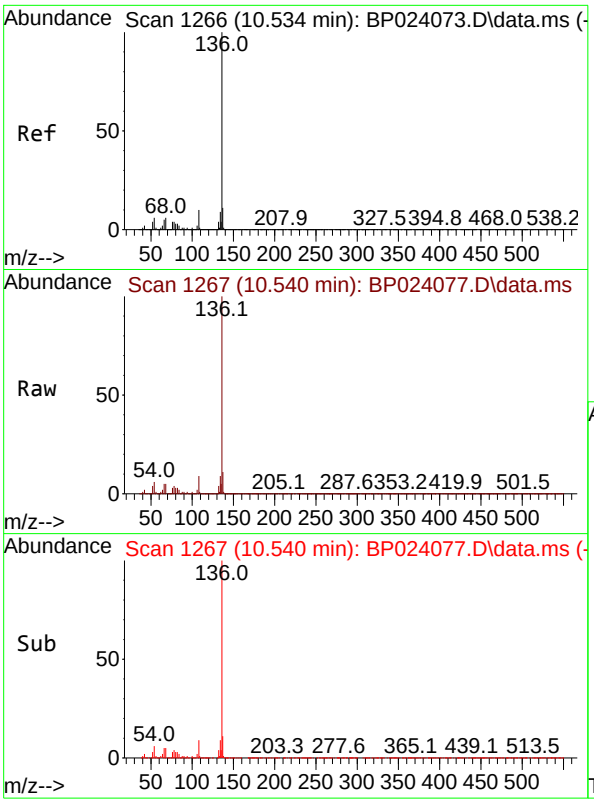


#20
3+4-Methylphenols
Concen: 45.470 ng
RT: 8.528 min Scan# 925
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:107 Resp: 1153262

Ion	Ratio	Lower	Upper
107	100		
108	89.4	68.5	108.5
77	31.0	10.7	50.7
79	26.7	6.1	46.1

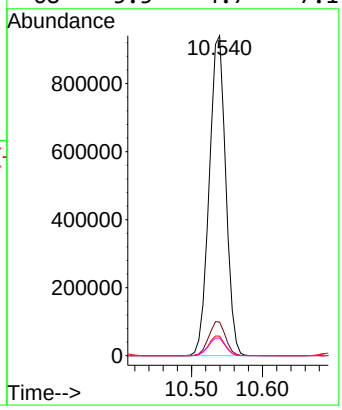




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.540 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:136 Resp: 151921

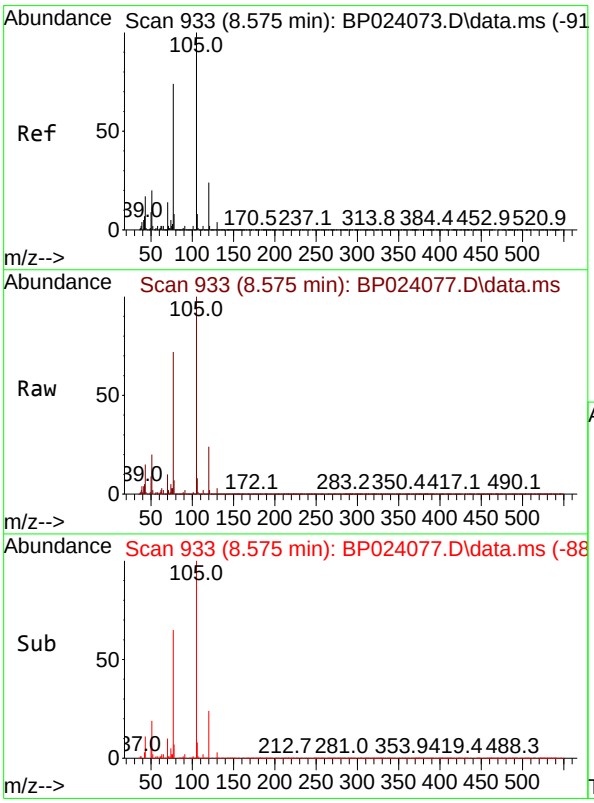
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.7	13.1
54	6.1	4.9	7.3
68	5.5	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

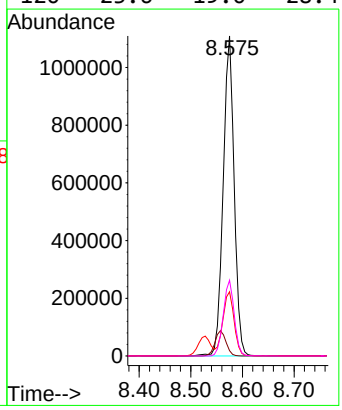
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

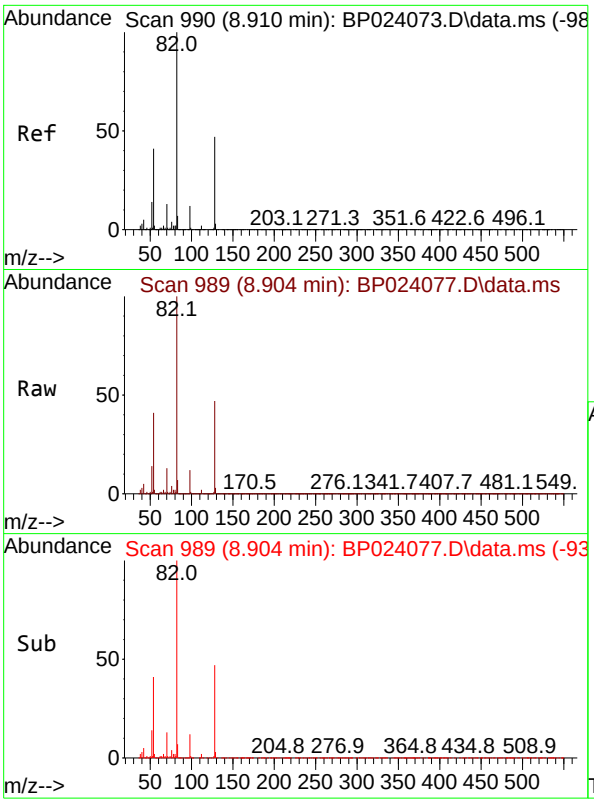


#22
Acetophenone
Concen: 41.961 ng
RT: 8.575 min Scan# 933
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:105 Resp: 1638160

Ion	Ratio	Lower	Upper
105	100		
71	1.6	1.9	2.9#
51	20.1	16.3	24.5
120	23.6	19.0	28.4

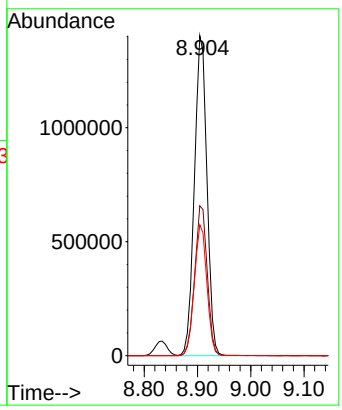




#23
Nitrobenzene-d5
Concen: 84.418 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 82 Resp: 229884

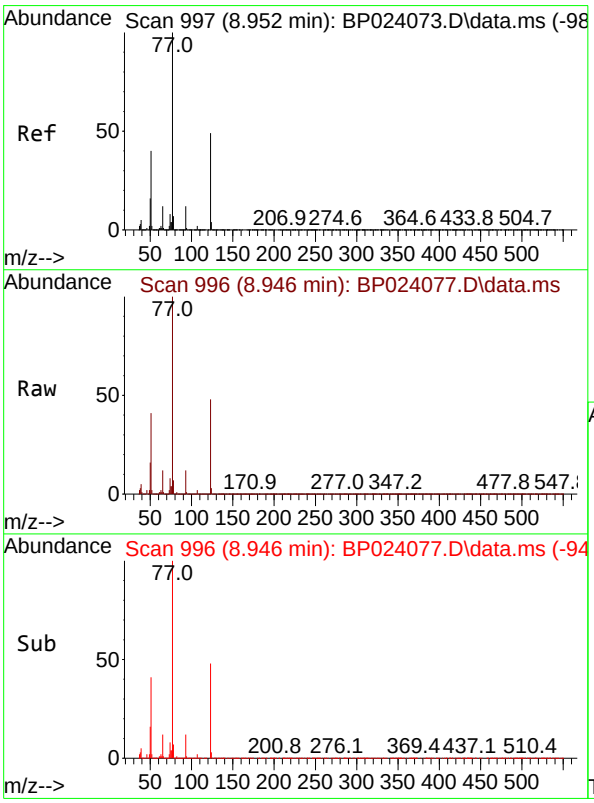
Ion	Ratio	Lower	Upper
82	100		
128	46.9	37.4	56.2
54	40.9	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

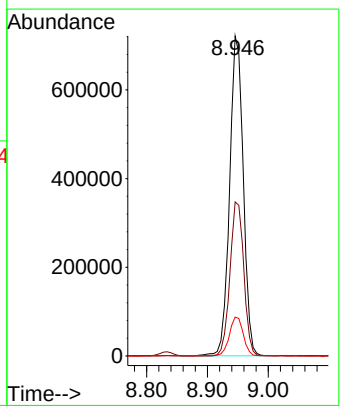
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

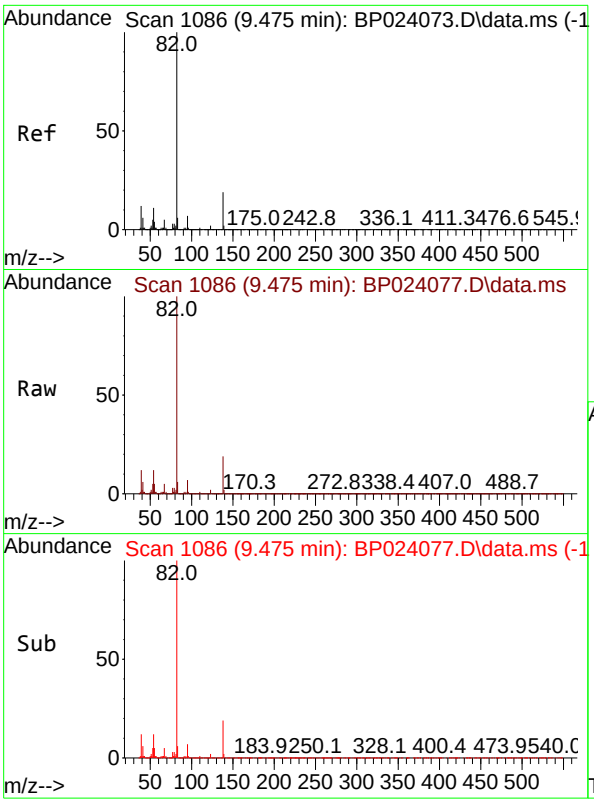


#24
Nitrobenzene
Concen: 41.972 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 77 Resp: 1124849

Ion	Ratio	Lower	Upper
77	100		
123	48.1	39.4	59.2
65	12.1	9.9	14.9





#25
Isophorone
Concen: 44.270 ng
RT: 9.475 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

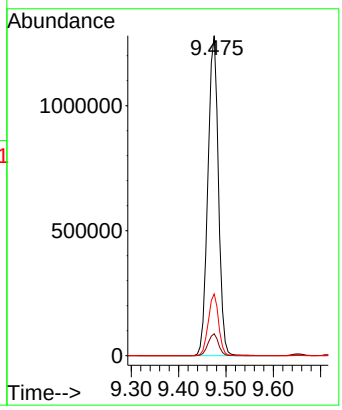
Tgt Ion: 82 Resp: 197140

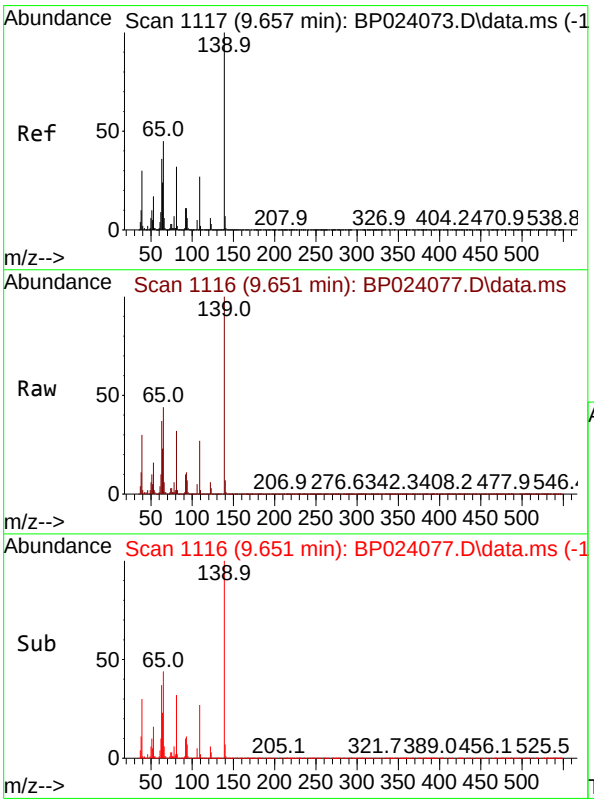
Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.4	8.0
138	19.3	15.3	22.9

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

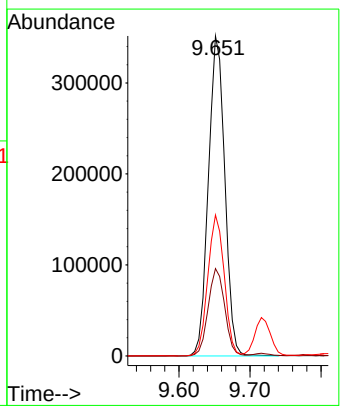


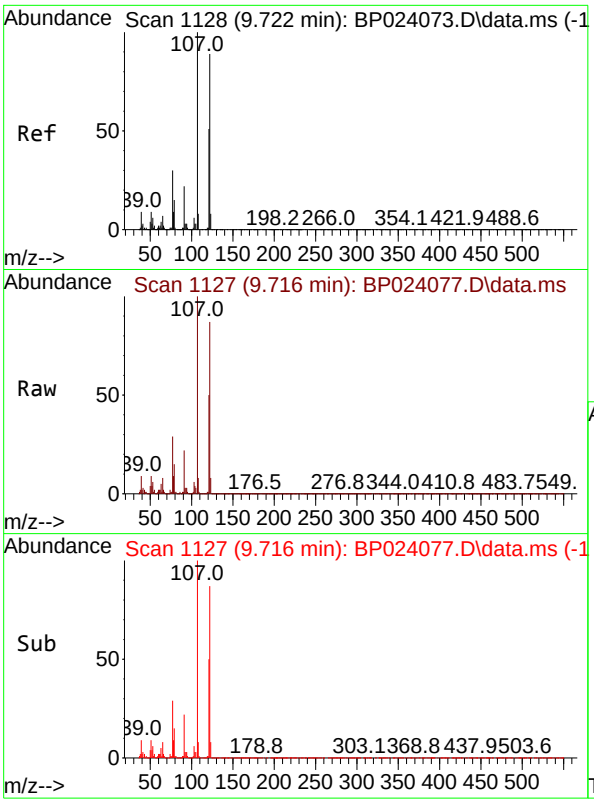


#26
2-Nitrophenol
Concen: 45.641 ng
RT: 9.651 min Scan# 1116
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:139 Resp: 563528

Ion	Ratio	Lower	Upper
139	100		
109	27.3	21.7	32.5
65	44.0	36.1	54.1





#27
2,4-Dimethylphenol
Concen: 43.873 ng
RT: 9.716 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

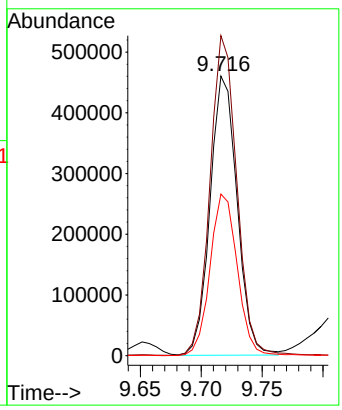
Tgt Ion:122 Resp: 71108

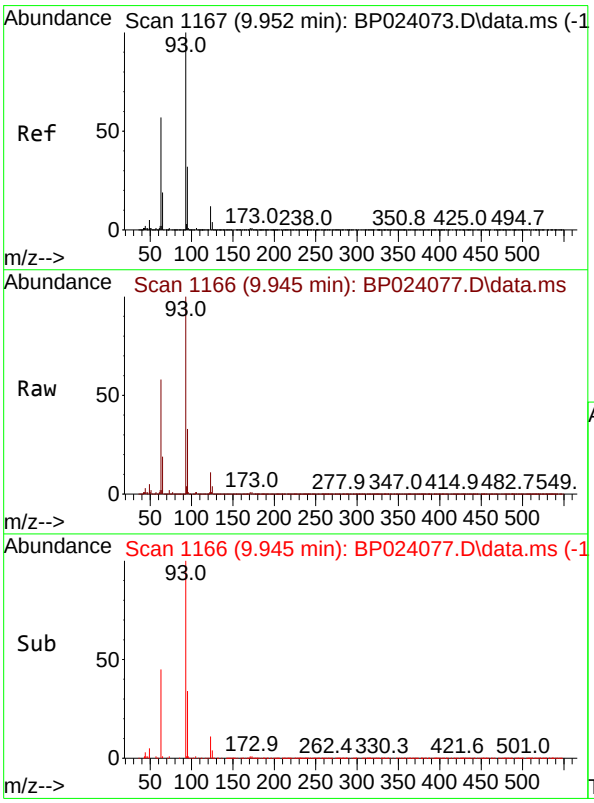
Ion	Ratio	Lower	Upper
122	100		
107	114.5	89.8	134.8
121	57.8	45.9	68.9

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

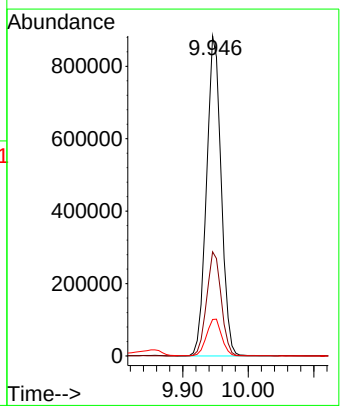


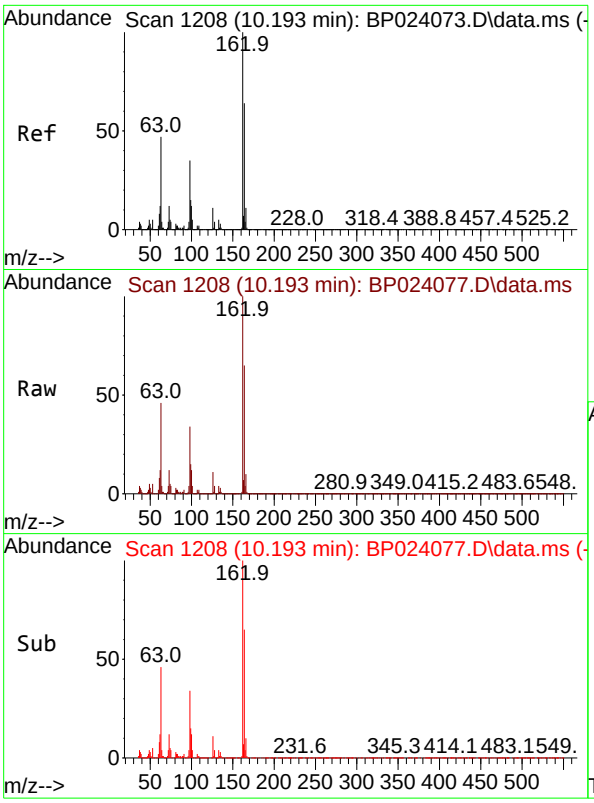


#28
bis(2-Chloroethoxy)methane
Concen: 42.573 ng
RT: 9.945 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 93 Resp: 1373405

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.9	38.9
123	11.4	9.7	14.5

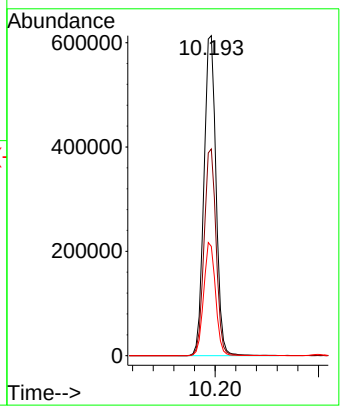




#29
2,4-Dichlorophenol
Concen: 44.872 ng
RT: 10.193 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:162 Resp: 99250

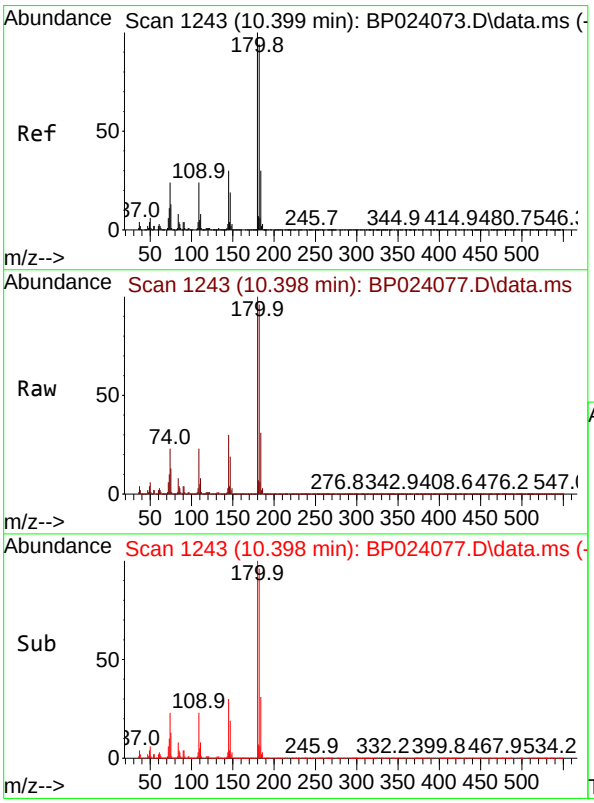
Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.5	84.5
98	34.1	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

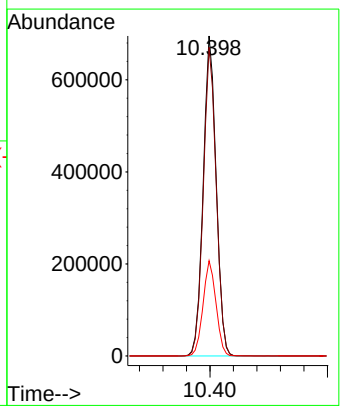
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

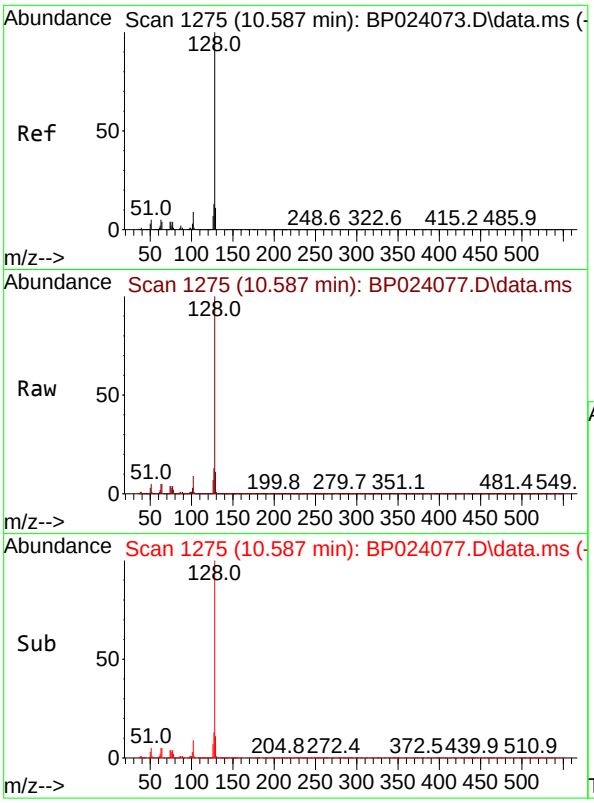


#30
1,2,4-Trichlorobenzene
Concen: 42.066 ng
RT: 10.398 min Scan# 1243
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:180 Resp: 1066046

Ion	Ratio	Lower	Upper
180	100		
182	96.5	75.4	113.2
145	29.7	24.0	36.0

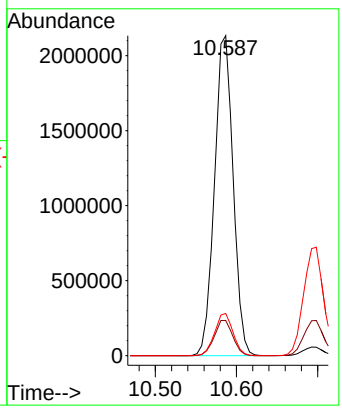




#31
Naphthalene
Concen: 41.704 ng
RT: 10.587 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:128 Resp: 340674

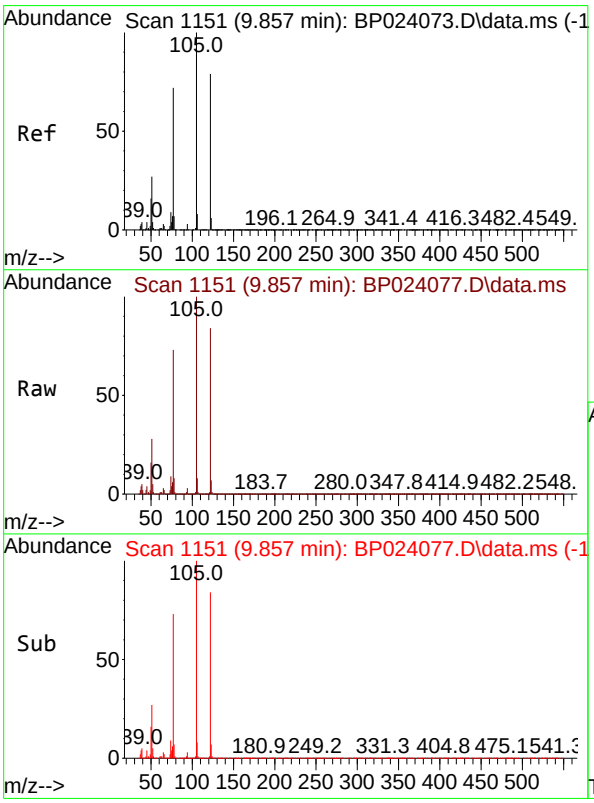
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.2	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

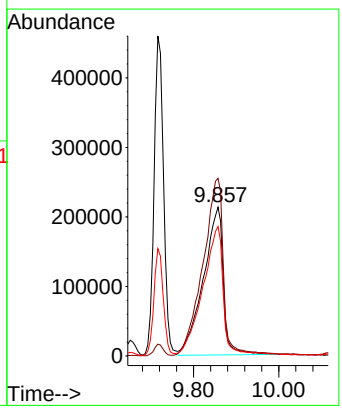
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

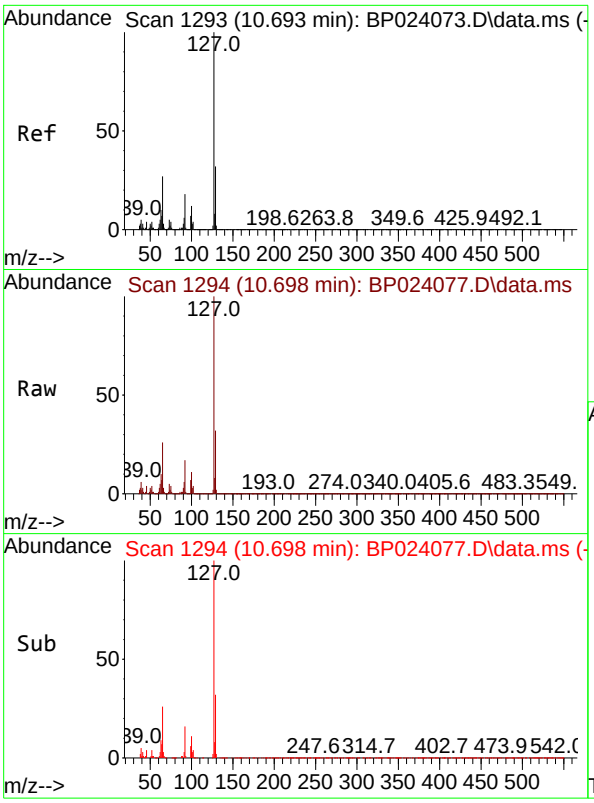


#32
Benzoic acid
Concen: 41.807 ng
RT: 9.857 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:122 Resp: 691485

Ion	Ratio	Lower	Upper
122	100		
105	119.3	103.7	143.7
77	87.0	69.9	109.9

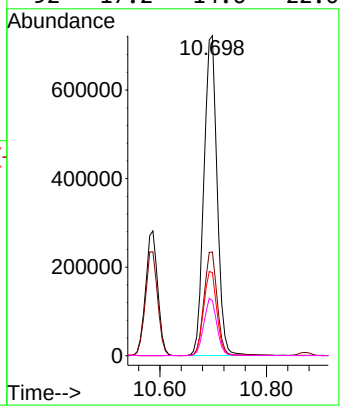




#33
4-Chloroaniline
Concen: 43.382 ng
RT: 10.698 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:127 Resp: 124844

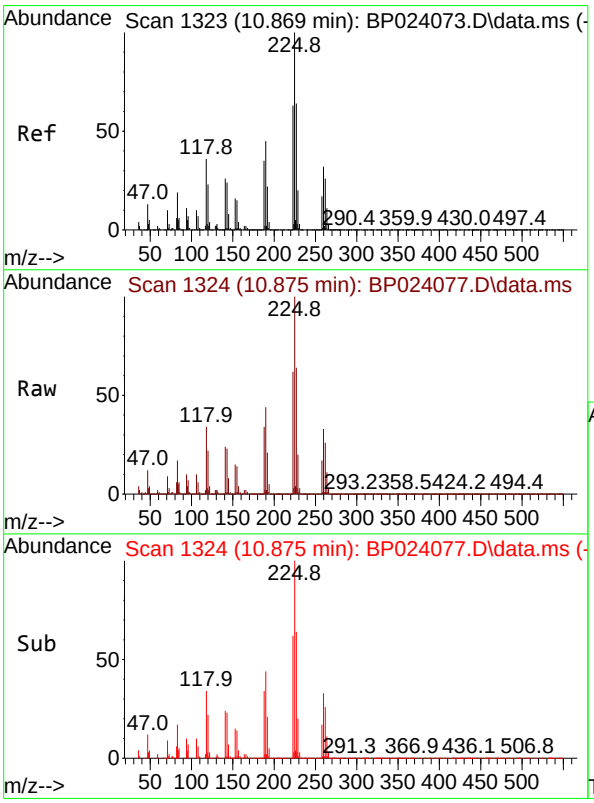
Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.4	38.0
65	26.0	21.3	31.9
92	17.2	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

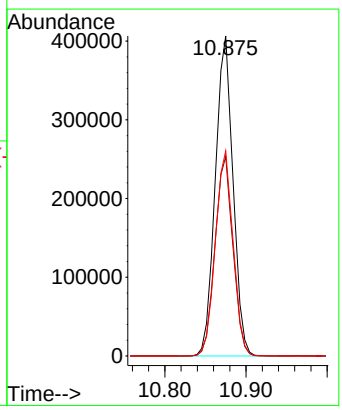
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

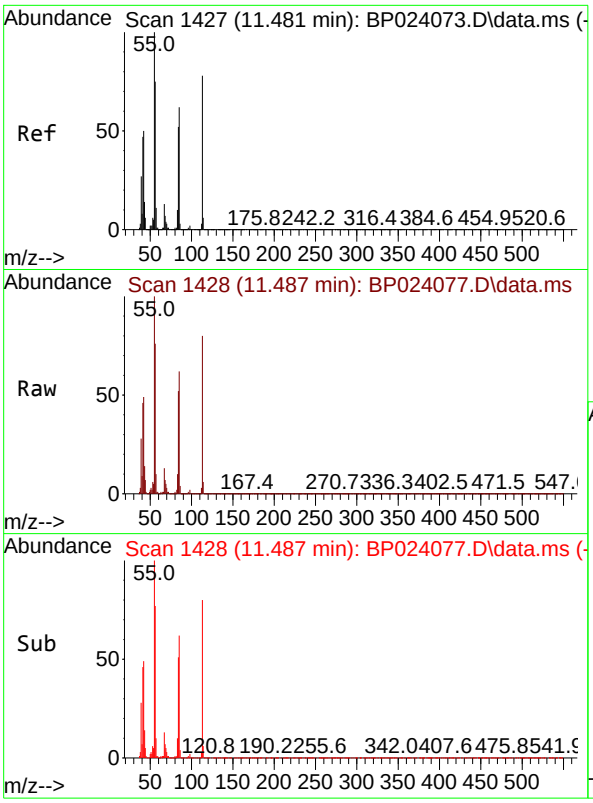


#34
Hexachlorobutadiene
Concen: 42.012 ng
RT: 10.875 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:225 Resp: 616661

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.5	75.7
227	64.1	51.3	76.9

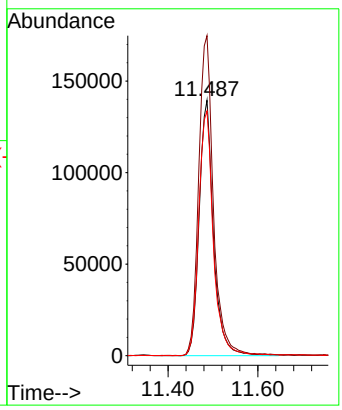




#35
Caprolactam
Concen: 42.126 ng
RT: 11.487 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:113 Resp: 30809

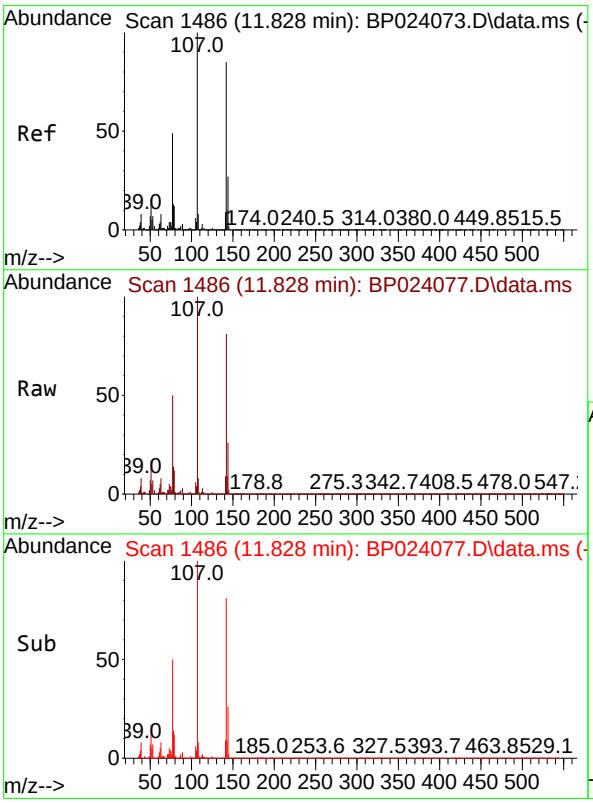
Ion	Ratio	Lower	Upper
113	100		
55	125.3	108.8	148.8
56	95.9	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

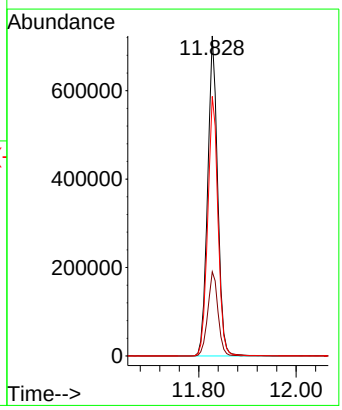
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

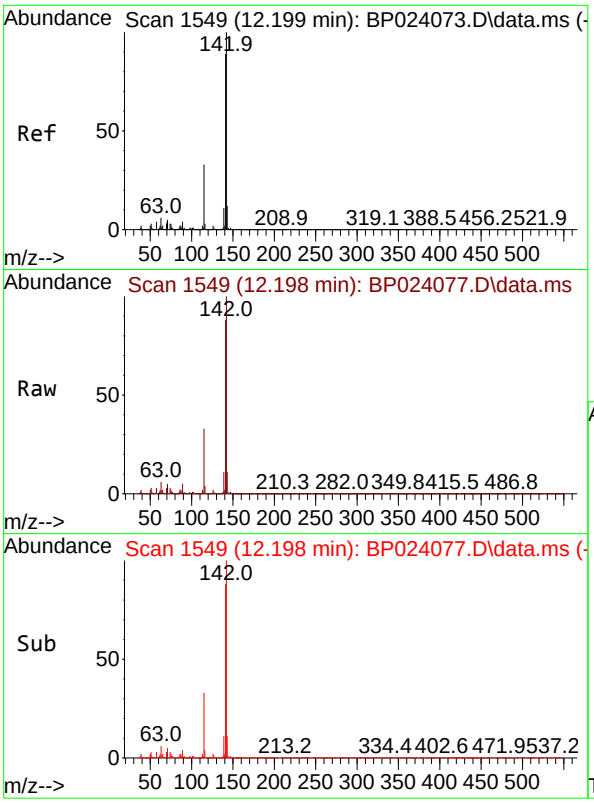


#36
4-Chloro-3-methylphenol
Concen: 45.153 ng
RT: 11.828 min Scan# 1486
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:107 Resp: 1026676

Ion	Ratio	Lower	Upper
107	100		
144	26.3	21.8	32.8
142	81.1	67.8	101.8

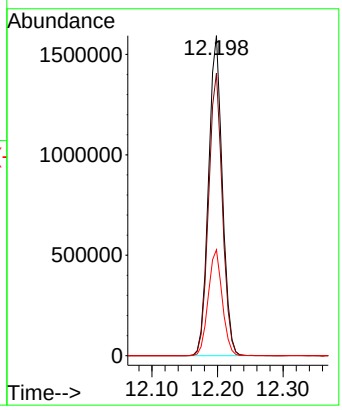




#37
2-Methylnaphthalene
Concen: 42.910 ng
RT: 12.198 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:142 Resp: 232975

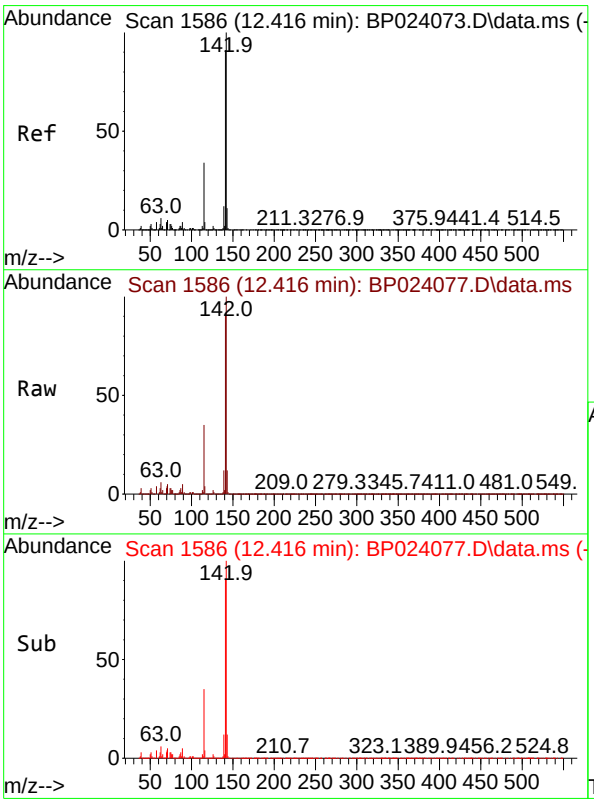
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8
115	33.1	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

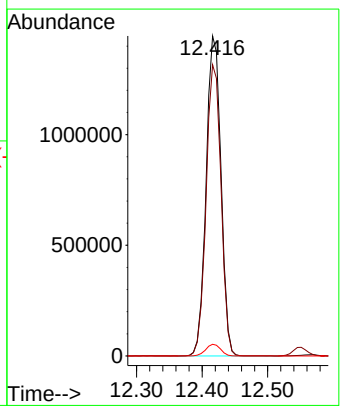
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

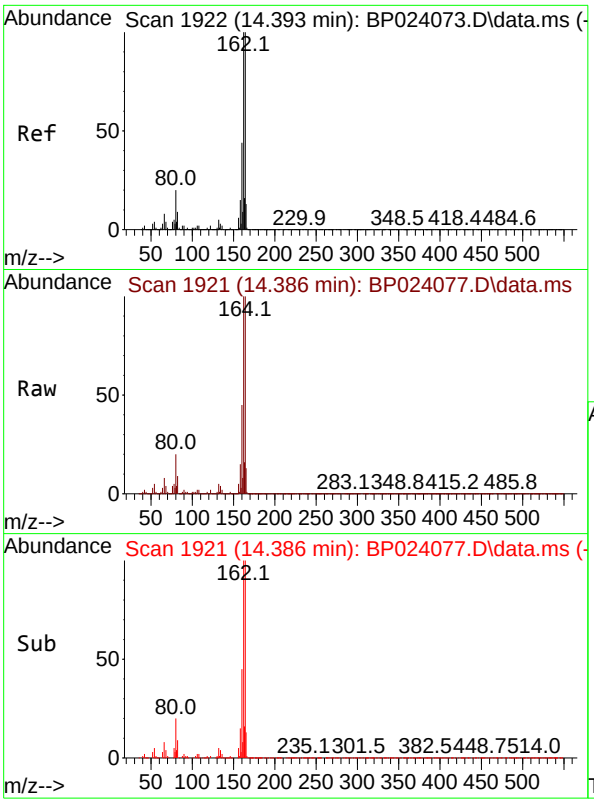


#38
1-Methylnaphthalene
Concen: 43.023 ng
RT: 12.416 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:142 Resp: 2272415

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.0	109.6
116	3.7	2.8	4.2

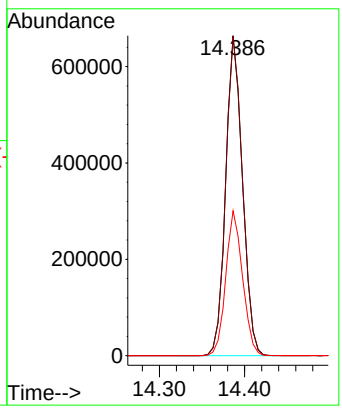




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:164 Resp: 90744

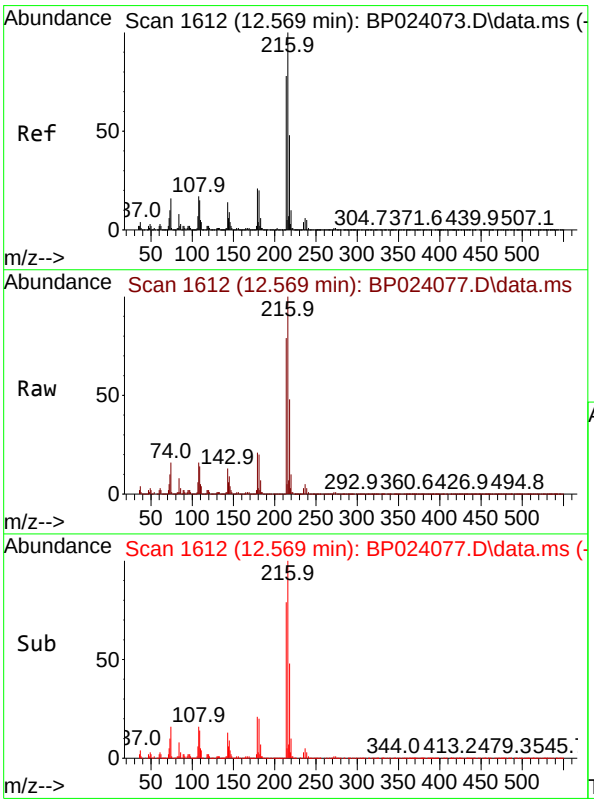
Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.1	120.1
160	45.2	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

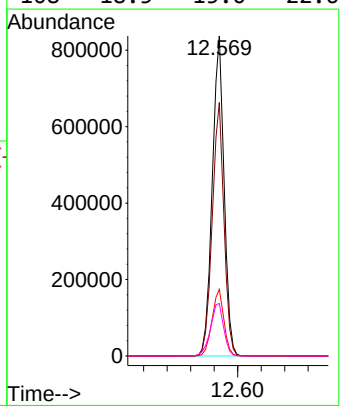
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

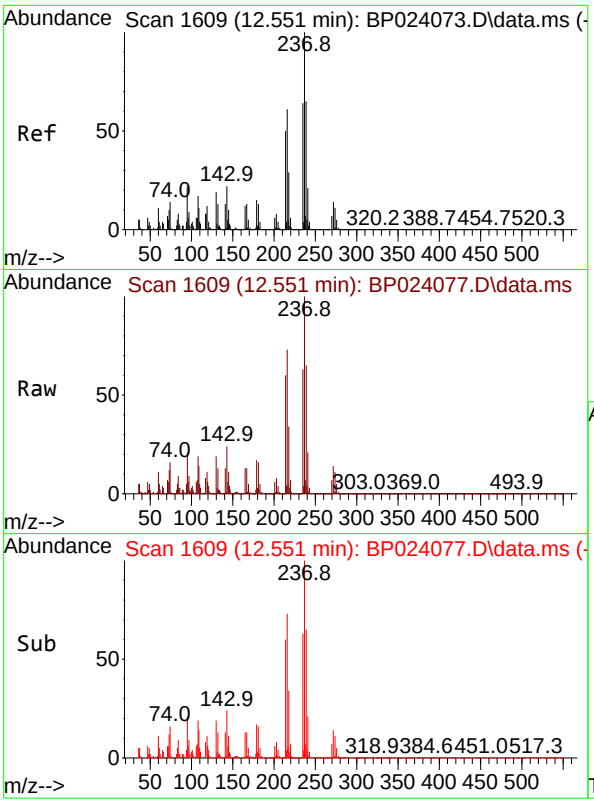


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.724 ng
RT: 12.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:216 Resp: 1163331

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.7	94.1
179	21.0	16.6	25.0
108	18.5	15.0	22.6

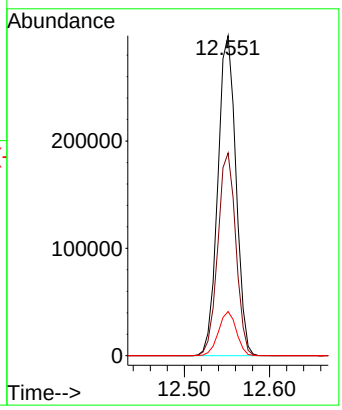




#41
Hexachlorocyclopentadiene
Concen: 42.405 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:237 Resp: 43995

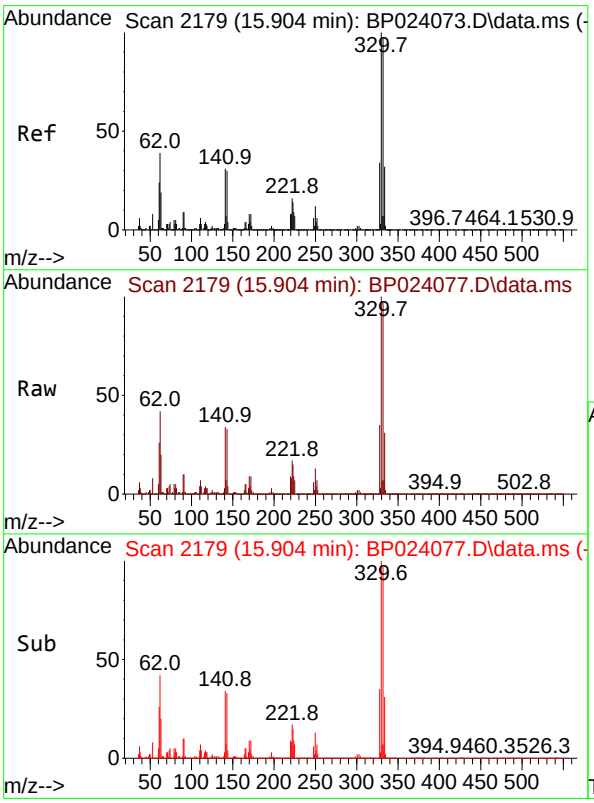
Ion	Ratio	Lower	Upper
237	100		
235	63.4	43.5	83.5
272	13.8	0.0	33.7



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

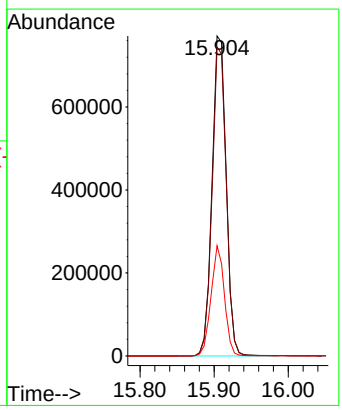
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

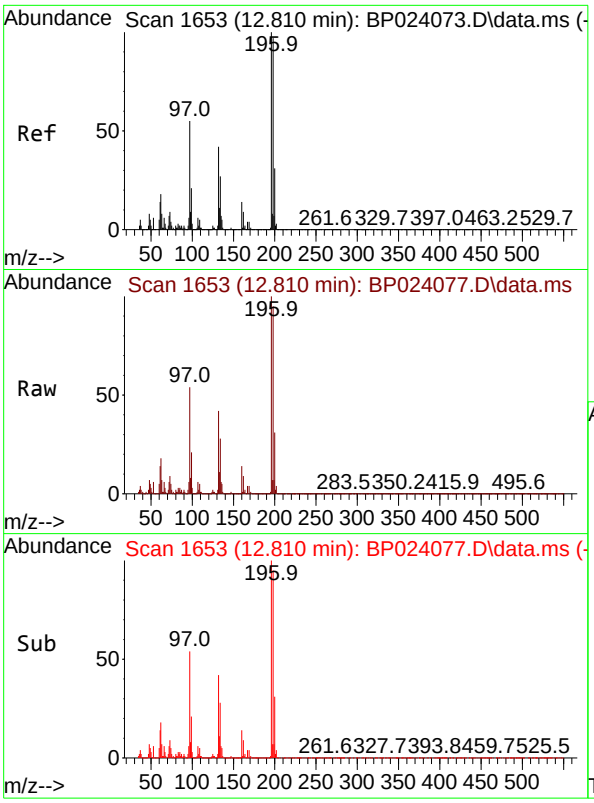


#42
2,4,6-Tribromophenol
Concen: 91.945 ng
RT: 15.904 min Scan# 2179
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:330 Resp: 1021981

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.4
141	32.7	28.3	42.5

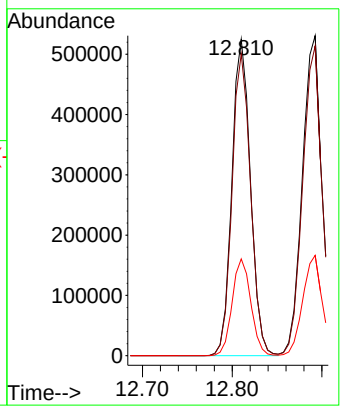




#43
2,4,6-Trichlorophenol
Concen: 44.356 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:196 Resp: 75421

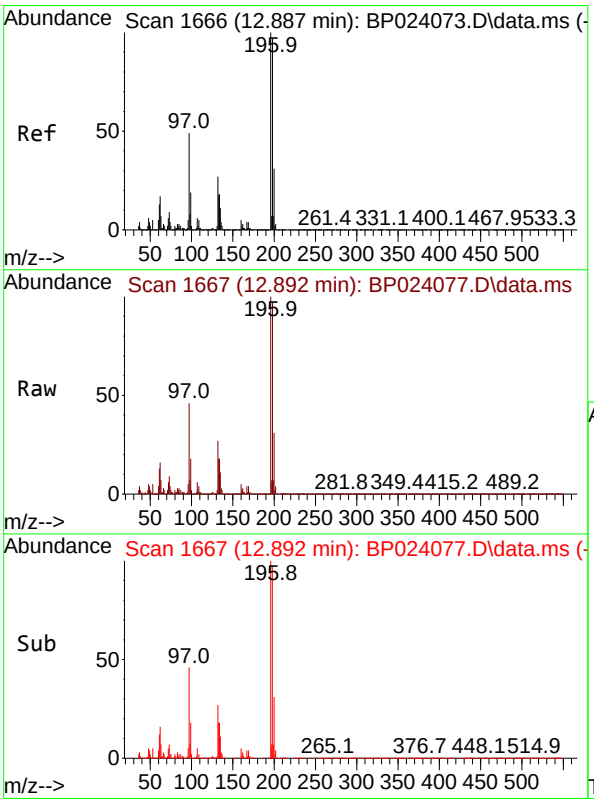
Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.8	116.6
200	30.6	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

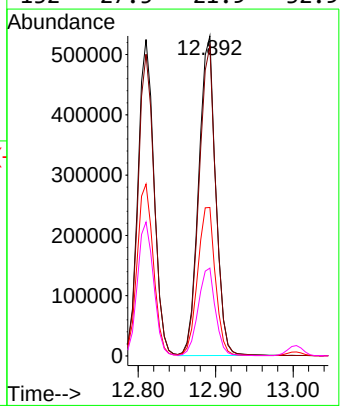
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

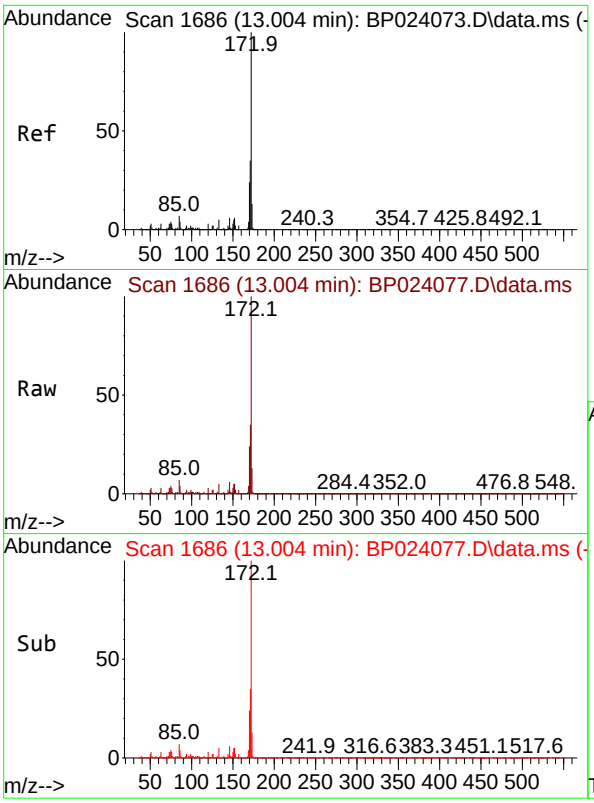


#44
2,4,5-Trichlorophenol
Concen: 43.327 ng
RT: 12.892 min Scan# 1667
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:196 Resp: 805715

Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.4	116.2
97	46.4	39.0	58.4
132	27.5	21.9	32.9

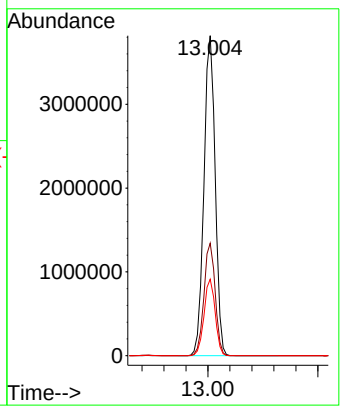




#45
2-Fluorobiphenyl
Concen: 83.379 ng
RT: 13.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:172 Resp: 541214

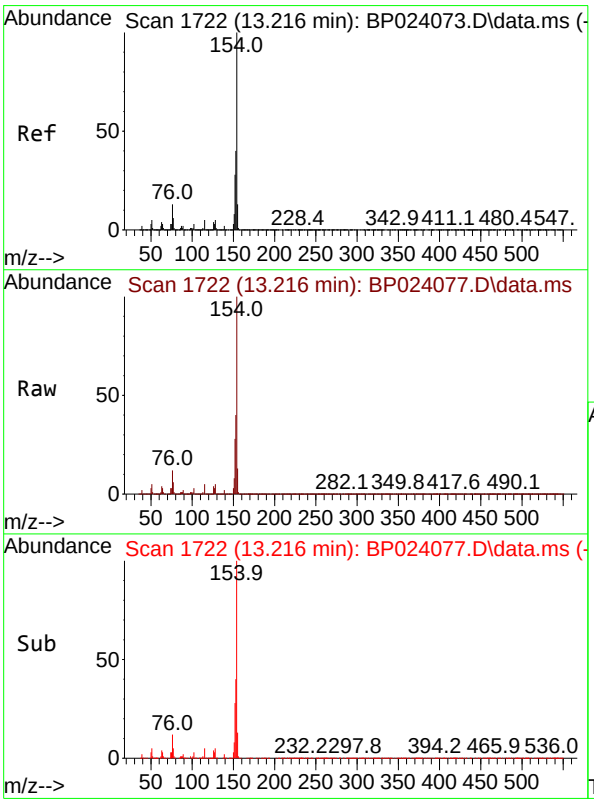
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.2
170	23.9	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

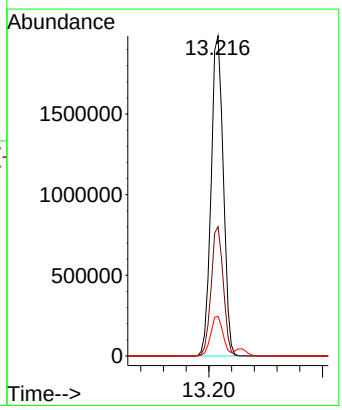
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

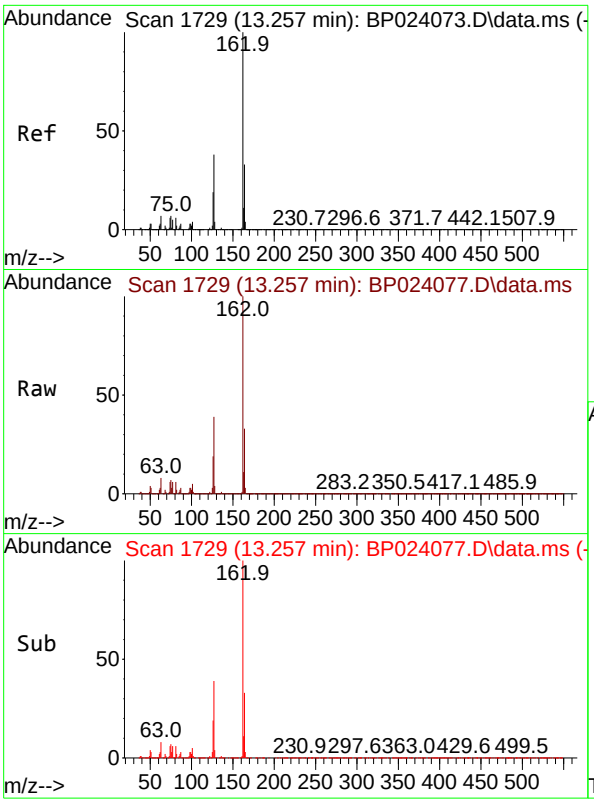


#46
1,1'-Biphenyl
Concen: 41.833 ng
RT: 13.216 min Scan# 1722
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:154 Resp: 2949815

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.0	60.0
76	12.4	0.0	32.6

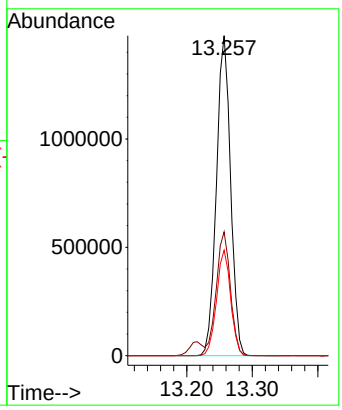




#47
2-Chloronaphthalene
Concen: 41.318 ng
RT: 13.257 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:162 Resp: 220245

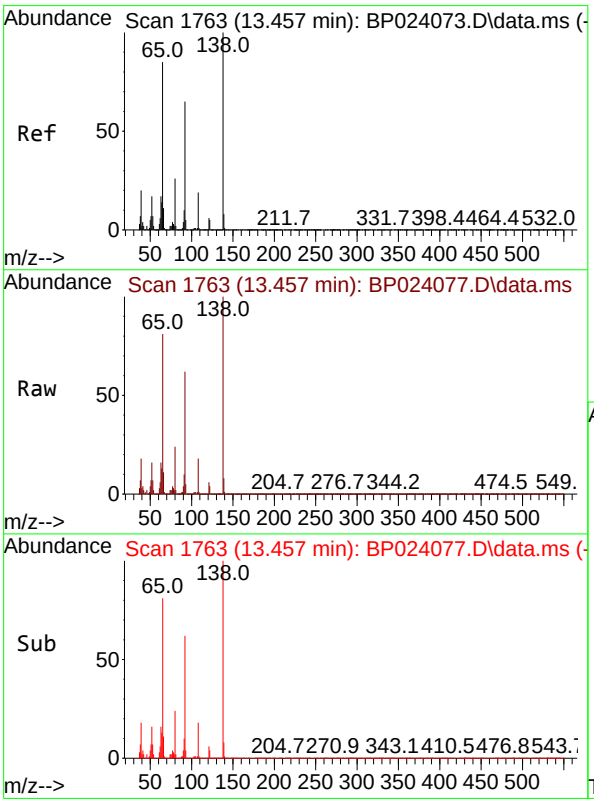
Ion	Ratio	Lower	Upper
162	100		
127	38.7	30.7	46.1
164	33.0	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

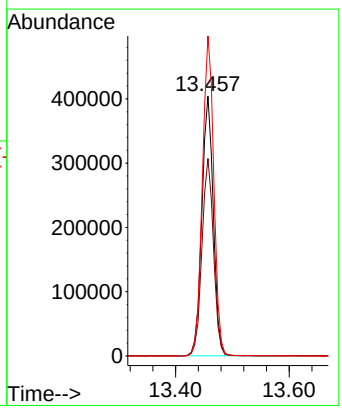
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

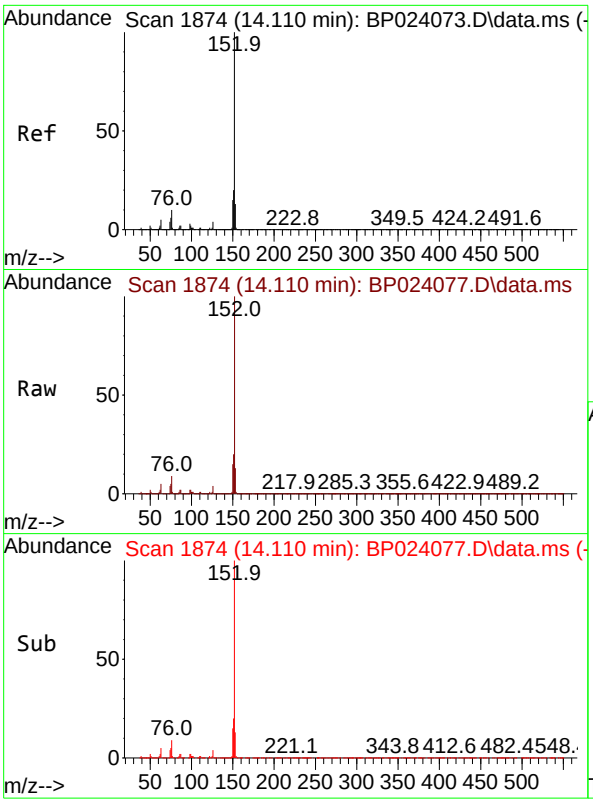


#48
2-Nitroaniline
Concen: 44.942 ng
RT: 13.457 min Scan# 1763
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 65 Resp: 565891

Ion	Ratio	Lower	Upper
65	100		
92	76.0	61.7	92.5
138	123.2	94.6	142.0

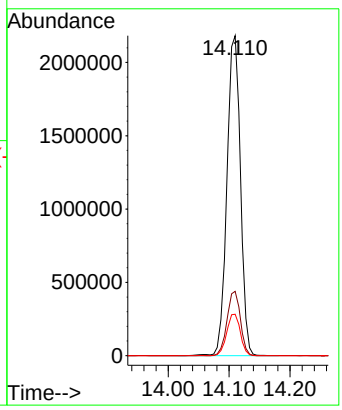




#49
Acenaphthylene
Concen: 42.818 ng
RT: 14.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:152 Resp: 336277

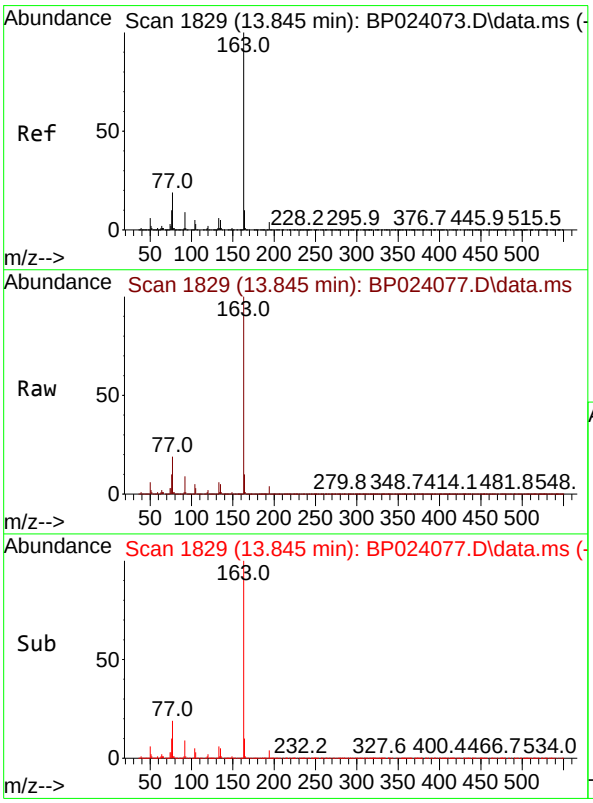
Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	13.0	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

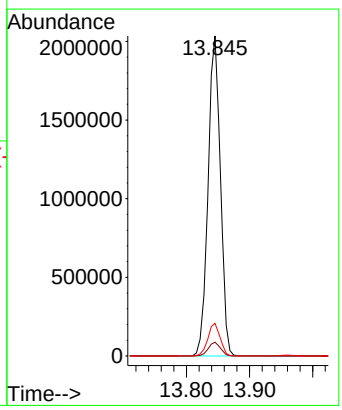
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

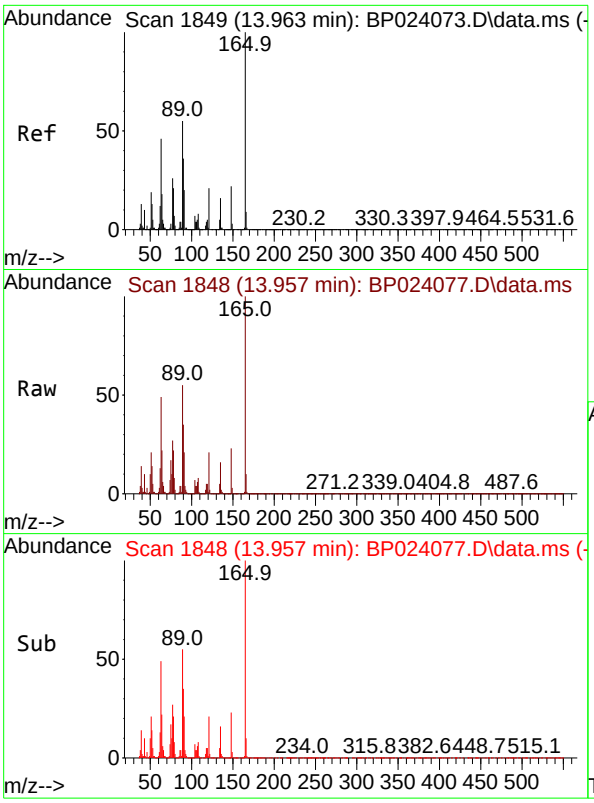


#50
Dimethylphthalate
Concen: 43.088 ng
RT: 13.845 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:163 Resp: 2758051

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.2	8.1	12.1

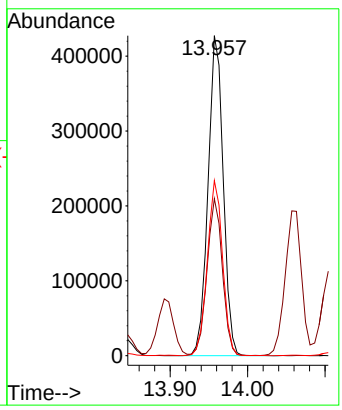




#51
2,6-Dinitrotoluene
Concen: 44.652 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:165 Resp: 58221

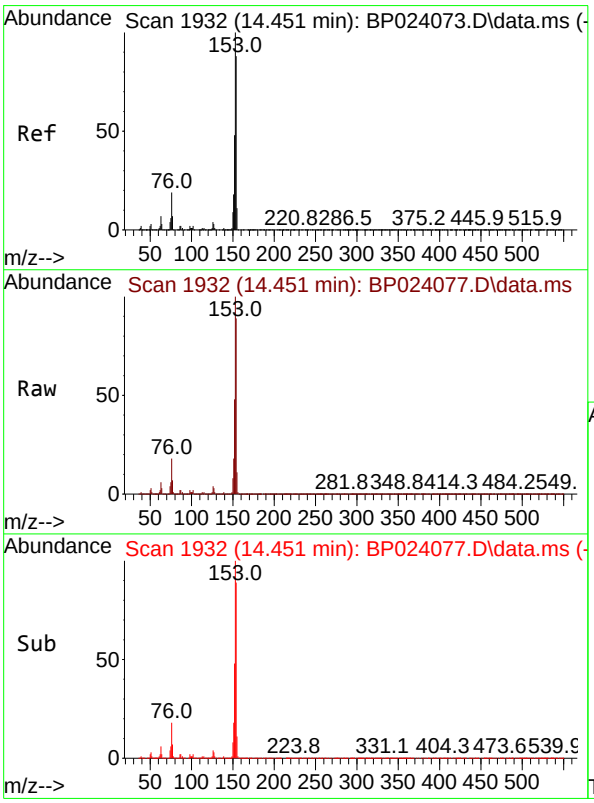
Ion	Ratio	Lower	Upper
165	100		
63	49.0	40.1	60.1
89	54.7	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

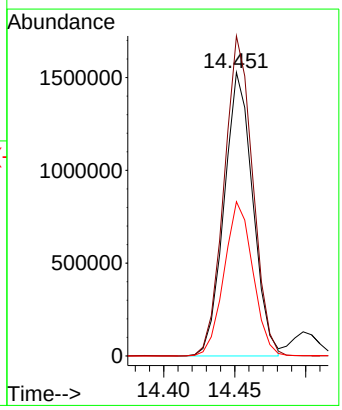
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

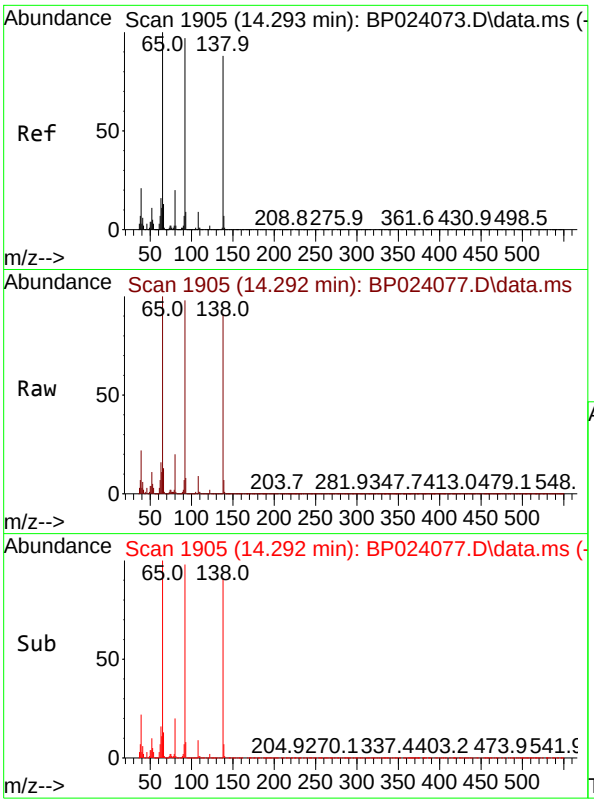


#52
Acenaphthene
Concen: 42.322 ng
RT: 14.451 min Scan# 1932
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:154 Resp: 2140376

Ion	Ratio	Lower	Upper
154	100		
153	112.9	90.6	135.8
152	54.4	43.6	65.4

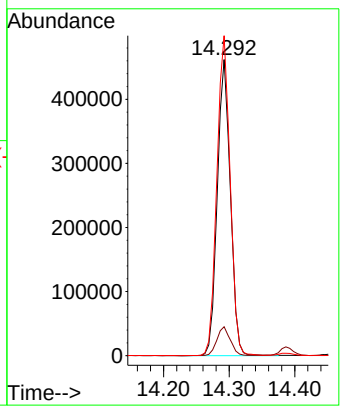




#53
3-Nitroaniline
Concen: 45.653 ng
RT: 14.292 min Scan# 19
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:138 Resp: 63520

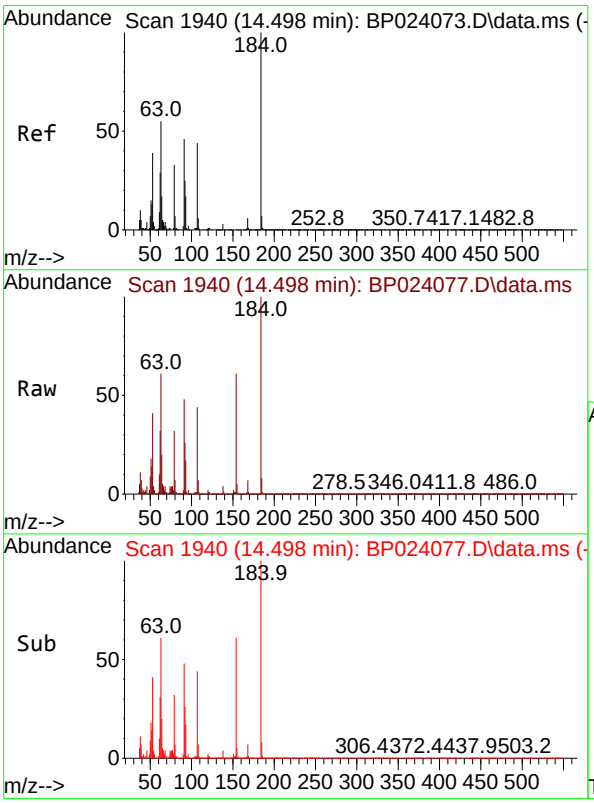
Ion	Ratio	Lower	Upper
138	100		
108	9.8	7.8	11.8
92	108.1	88.4	132.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

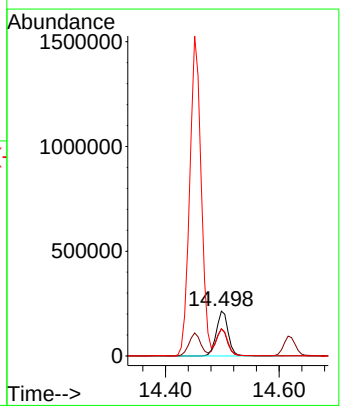
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

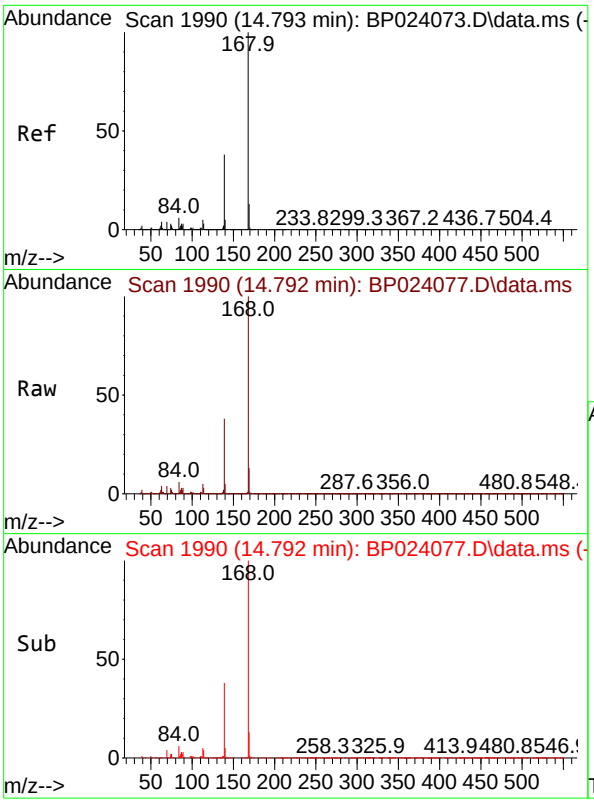


#54
2,4-Dinitrophenol
Concen: 40.297 ng
RT: 14.498 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:184 Resp: 309649

Ion	Ratio	Lower	Upper
184	100		
63	60.8	49.4	74.0
154	60.7	49.2	73.8

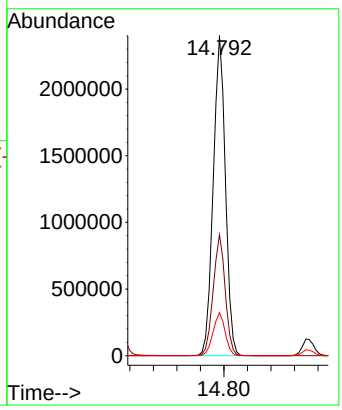




#55
Dibenzofuran
Concen: 41.901 ng
RT: 14.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:168 Resp: 344244

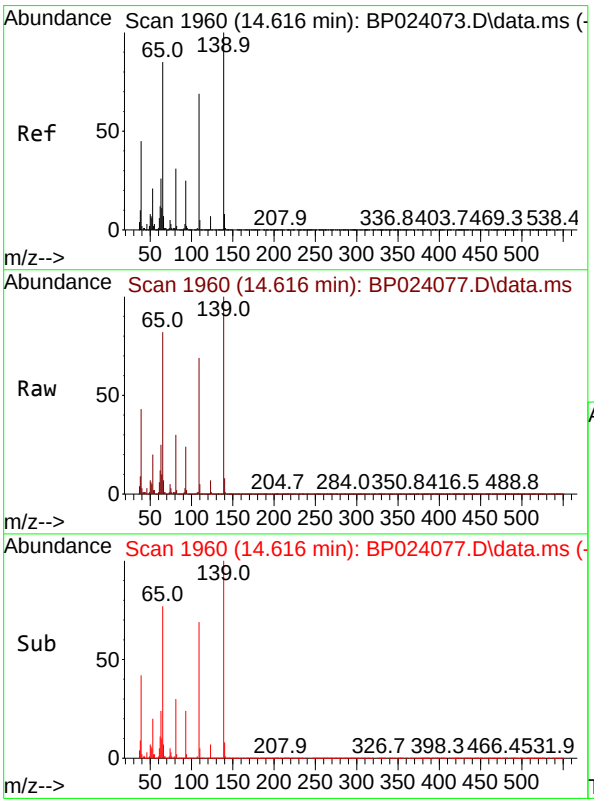
Ion	Ratio	Lower	Upper
168	100		
139	37.8	30.2	45.2
169	13.5	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

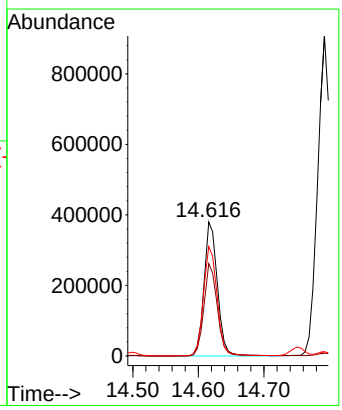
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

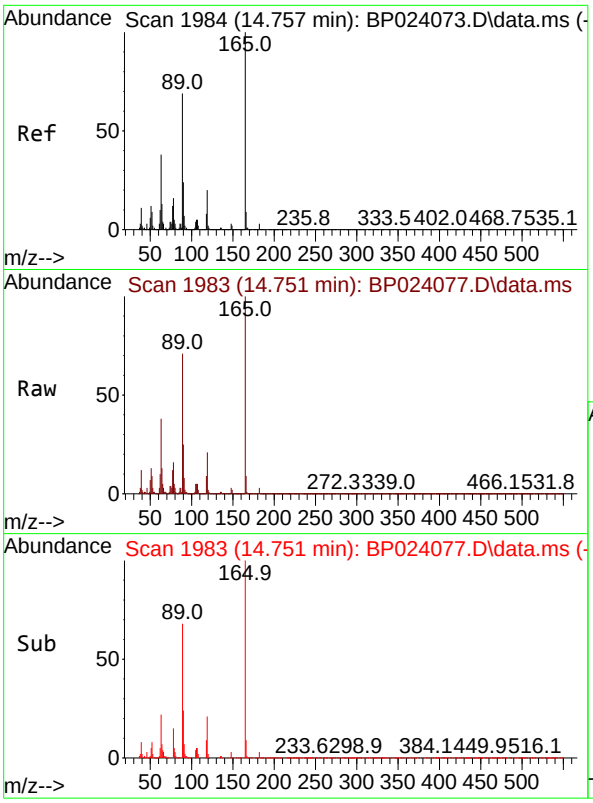


#56
4-Nitrophenol
Concen: 44.967 ng
RT: 14.616 min Scan# 1960
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:139 Resp: 540455

Ion	Ratio	Lower	Upper
139	100		
109	68.9	49.2	89.2
65	81.6	65.4	105.4

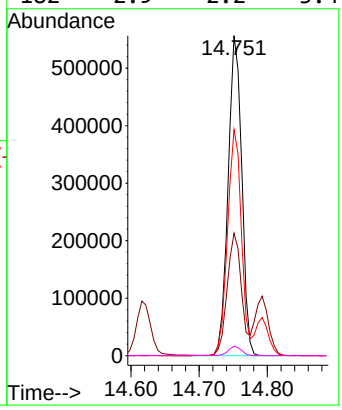




#57
2,4-Dinitrotoluene
Concen: 45.707 ng
RT: 14.751 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:165 Resp: 77419

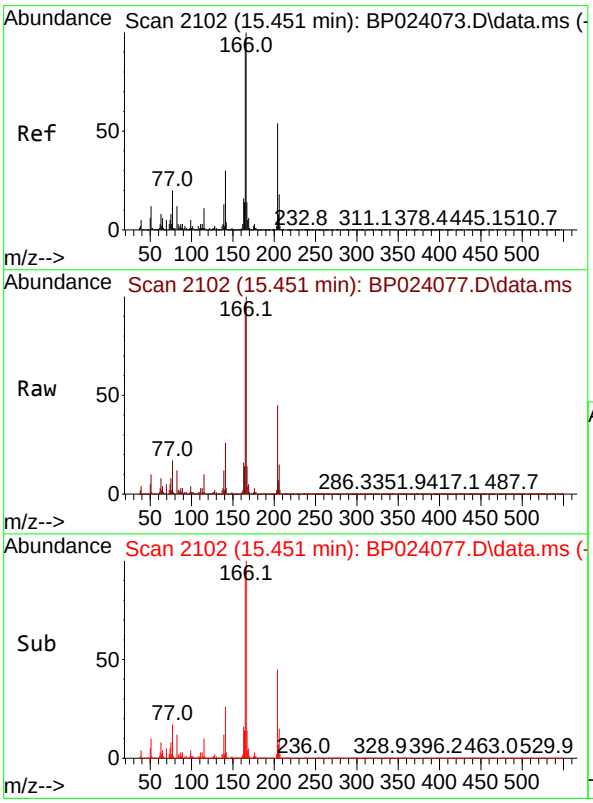
Ion	Ratio	Lower	Upper
165	100		
63	38.2	30.4	45.6
89	70.7	54.8	82.2
182	2.9	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

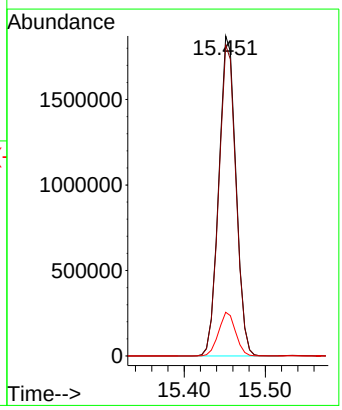
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

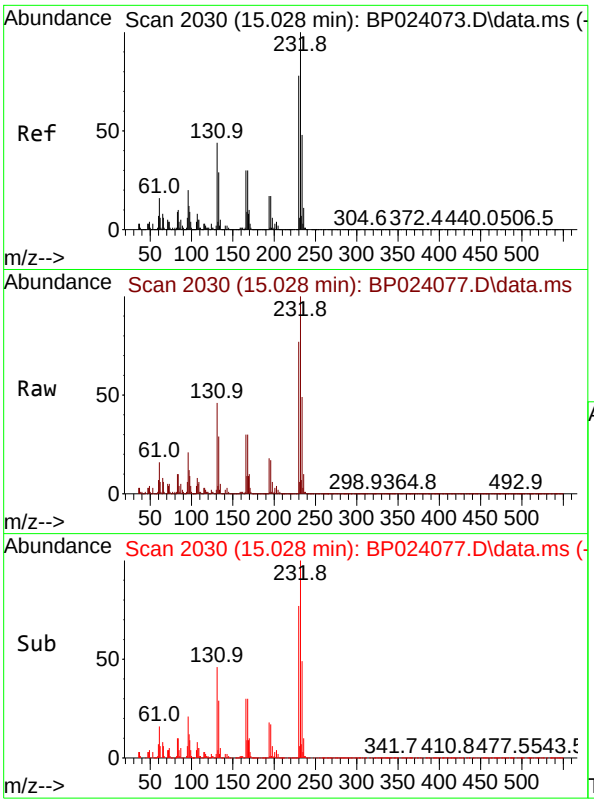


#58
Fluorene
Concen: 42.876 ng
RT: 15.451 min Scan# 2102
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:166 Resp: 2751052

Ion	Ratio	Lower	Upper
166	100		
165	97.2	77.5	116.3
167	13.6	10.9	16.3

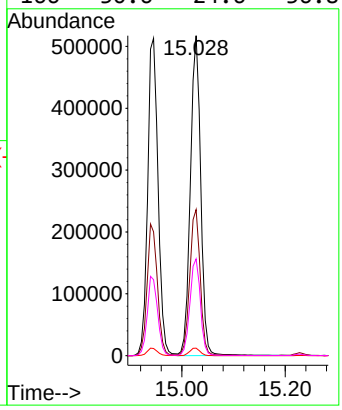




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.437 ng
RT: 15.028 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:232 Resp: 71694

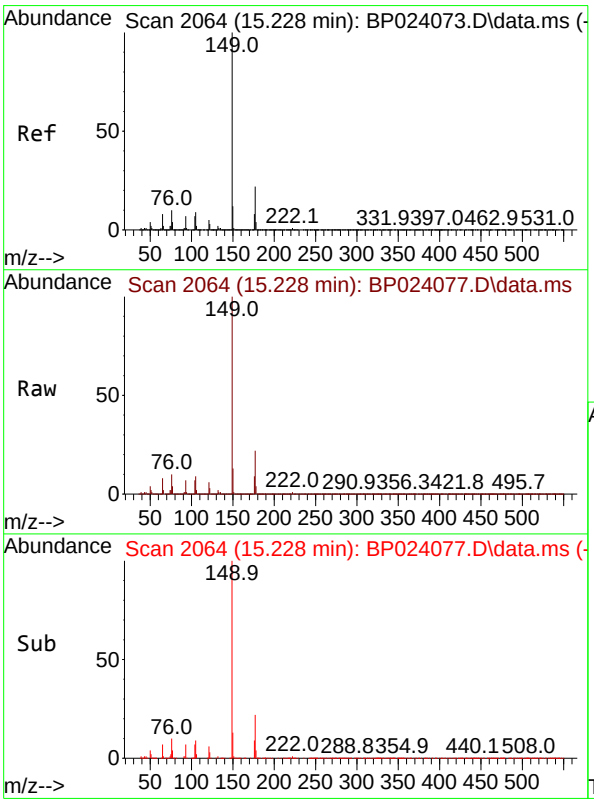
Ion	Ratio	Lower	Upper
232	100		
131	46.3	37.3	55.9
130	2.4	1.9	2.9
166	30.6	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

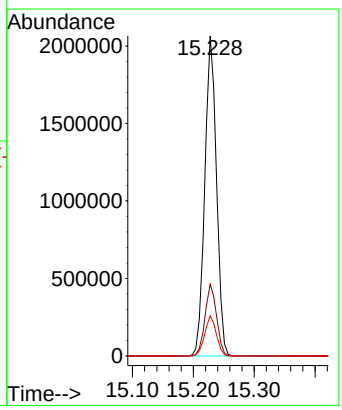
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

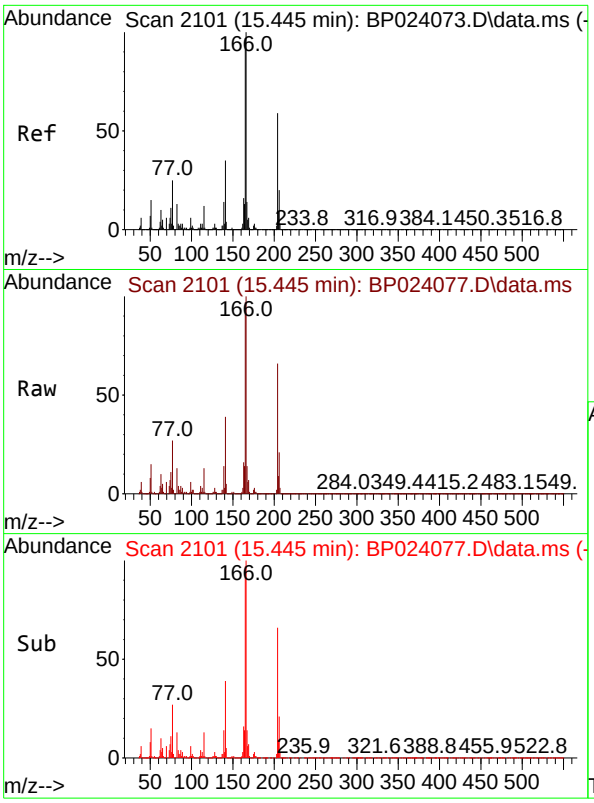


#60
Diethylphthalate
Concen: 43.265 ng
RT: 15.228 min Scan# 2064
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:149 Resp: 2749096

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.9	26.9
150	12.6	9.8	14.6

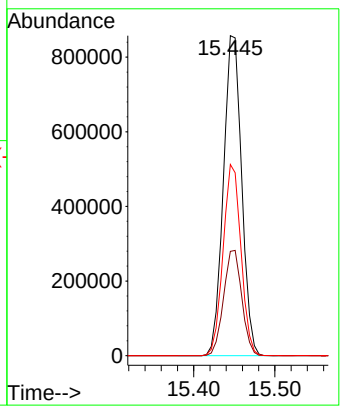




#61
4-Chlorophenyl-phenylether
Concen: 42.494 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:204 Resp: 134202

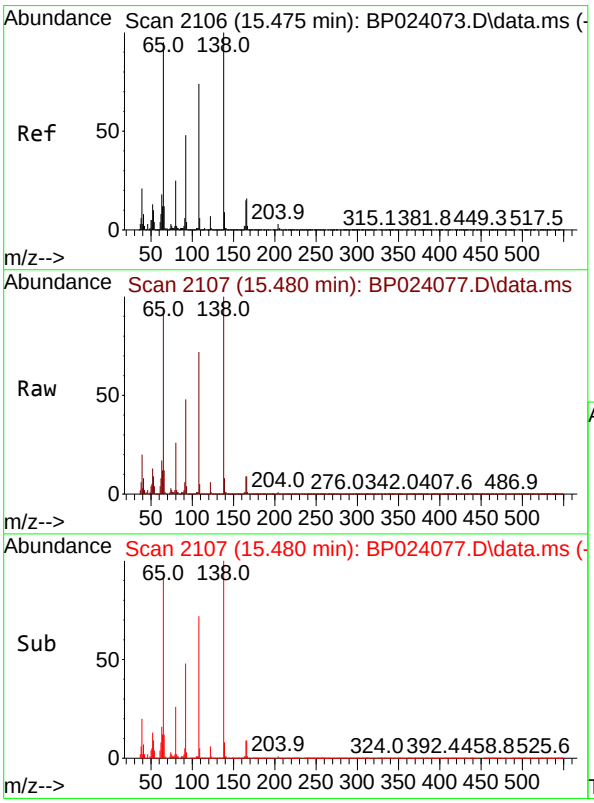
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.6	39.8
141	59.8	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

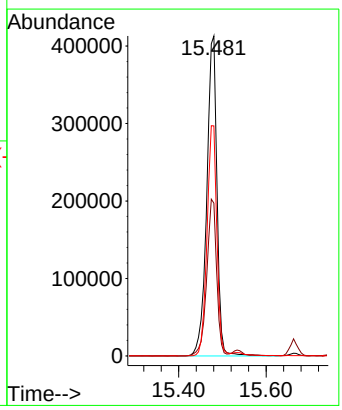
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

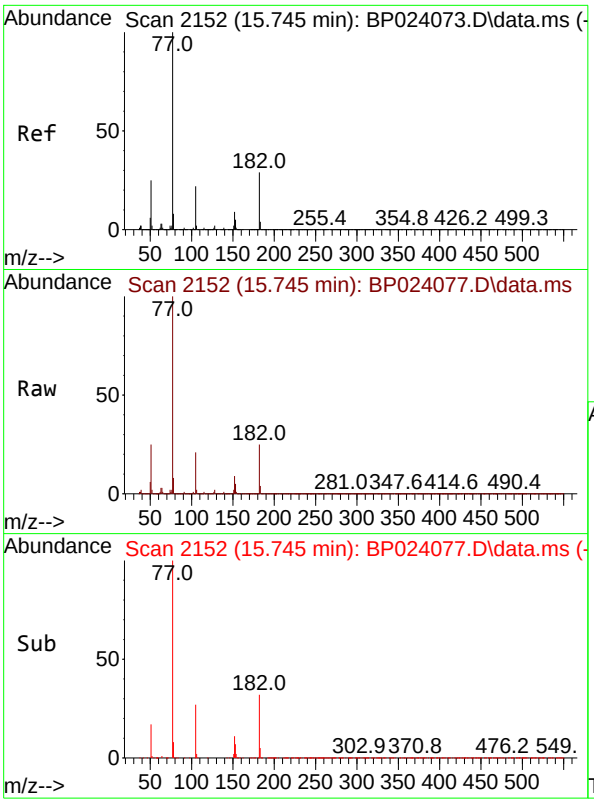


#62
4-Nitroaniline
Concen: 41.293 ng
RT: 15.480 min Scan# 2107
Delta R.T. 0.005 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:138 Resp: 672079

Ion	Ratio	Lower	Upper
138	100		
92	47.7	28.3	68.3
108	71.9	54.0	94.0

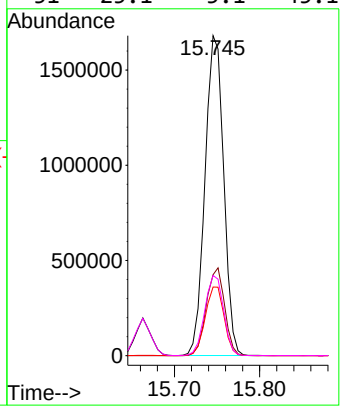




#63
Azobenzene
Concen: 42.943 ng
RT: 15.745 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion: 77 Resp: 255696

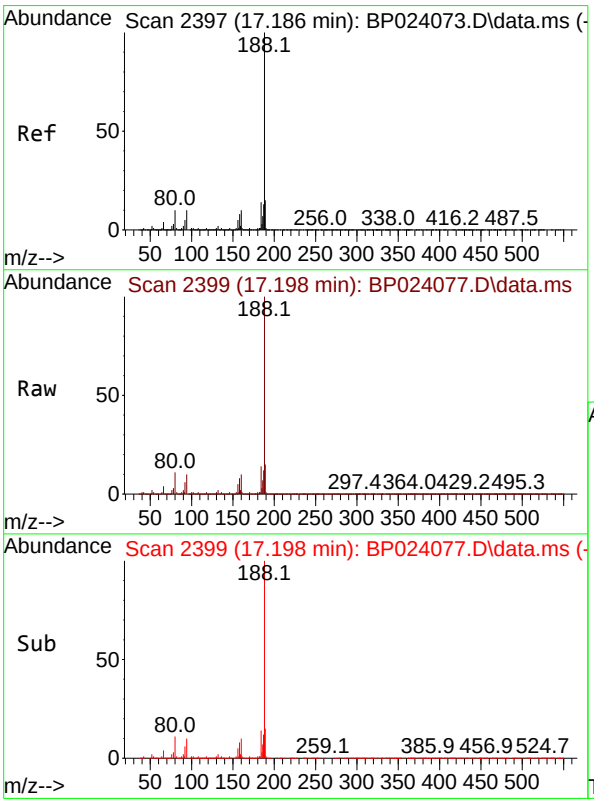
Ion	Ratio	Lower	Upper
77	100		
182	25.3	8.5	48.5
105	21.5	1.8	41.8
51	25.1	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

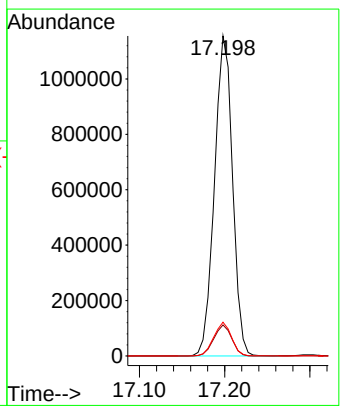
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

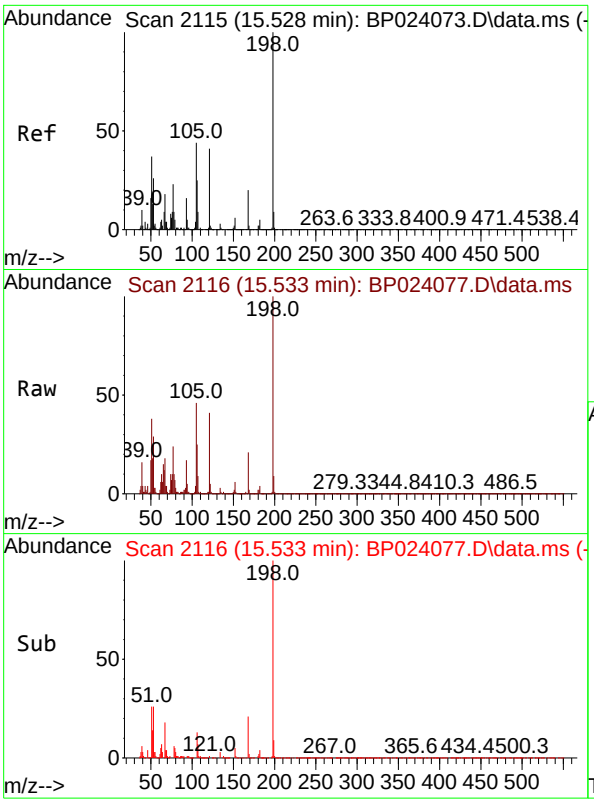


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.198 min Scan# 2399
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:188 Resp: 1700373

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.6	11.4
80	10.6	8.2	12.2

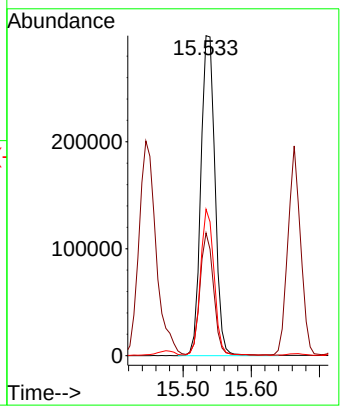




#65
4,6-Dinitro-2-methylphenol
Concen: 40.594 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.005 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:198 Resp: 43181

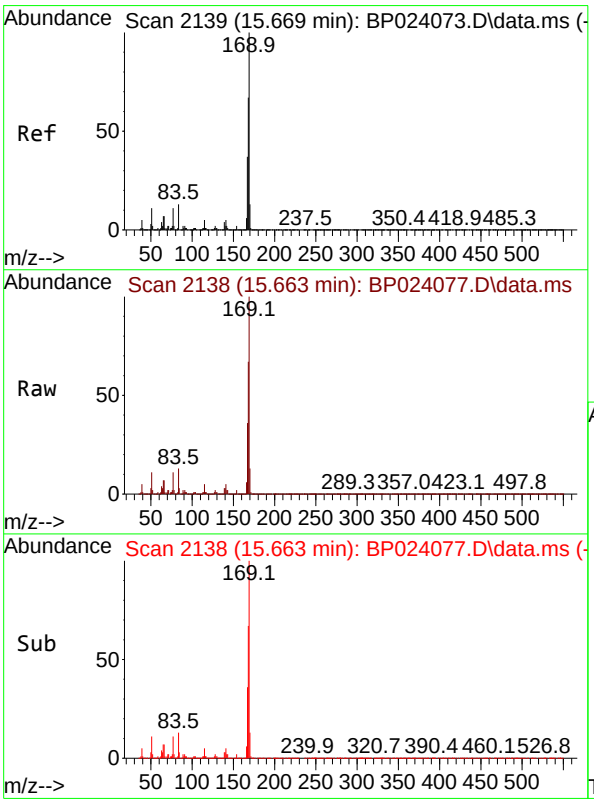
Ion	Ratio	Lower	Upper
198	100		
51	38.3	18.7	58.7
105	45.7	24.7	64.7



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

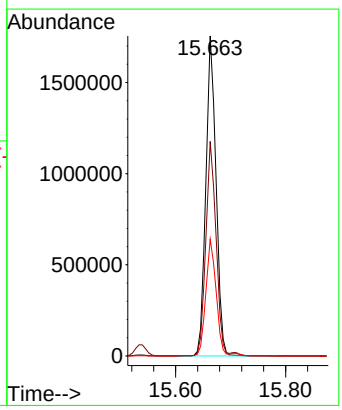
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

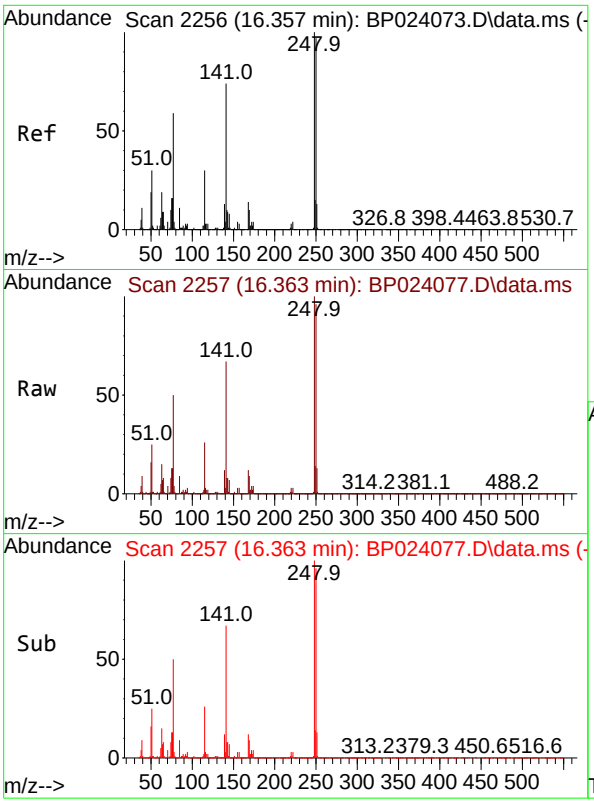


#66
n-Nitrosodiphenylamine
Concen: 42.516 ng
RT: 15.663 min Scan# 2138
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:169 Resp: 2254420

Ion	Ratio	Lower	Upper
169	100		
168	67.1	53.6	80.4
167	36.5	29.5	44.3

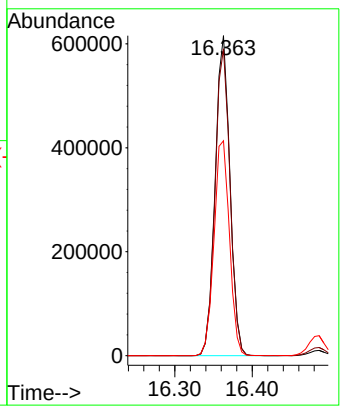




#67
4-Bromophenyl-phenylether
Concen: 42.694 ng
RT: 16.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:248 Resp: 81522

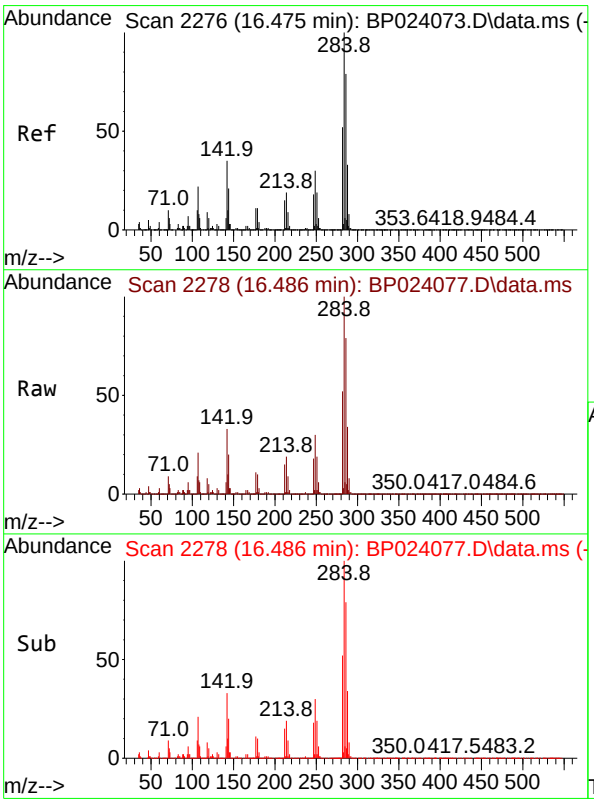
Ion	Ratio	Lower	Upper
248	100		
250	95.9	77.9	116.9
141	67.2	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

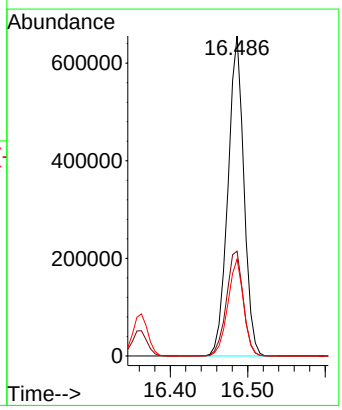
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

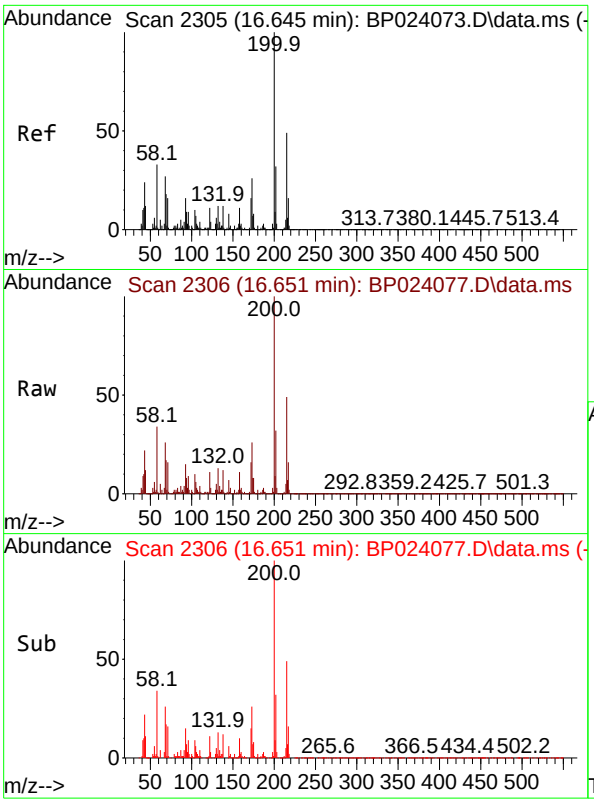


#68
Hexachlorobenzene
Concen: 41.804 ng
RT: 16.486 min Scan# 2278
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:284 Resp: 939238

Ion	Ratio	Lower	Upper
284	100		
142	32.8	27.7	41.5
249	30.2	23.8	35.6

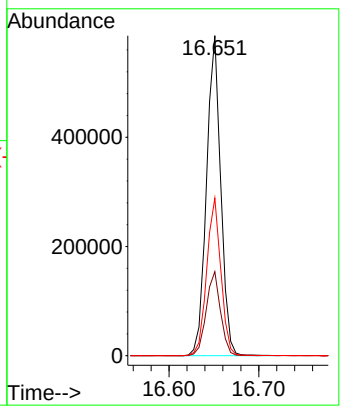




#69
Atrazine
Concen: 47.441 ng
RT: 16.651 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:200 Resp: 64557

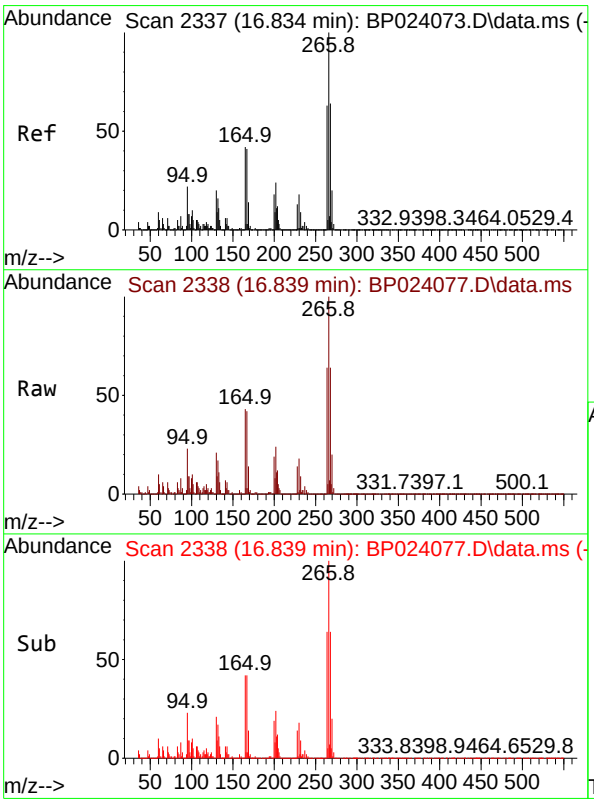
Ion	Ratio	Lower	Upper
200	100		
173	26.3	5.7	45.7
215	49.2	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

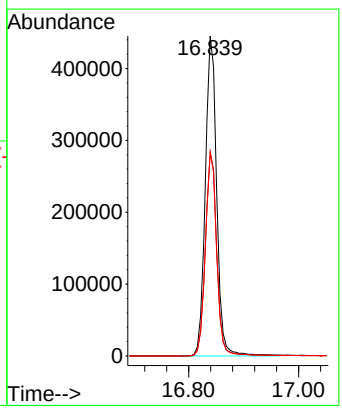
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

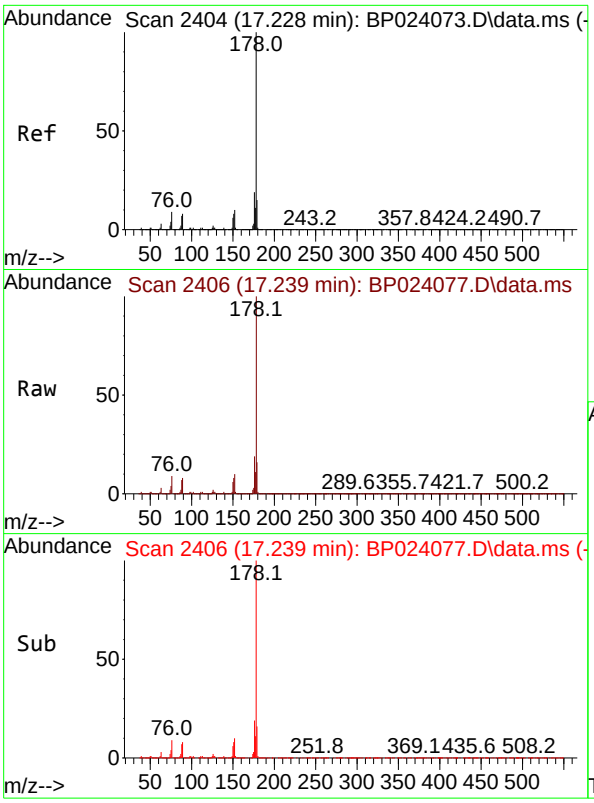


#70
Pentachlorophenol
Concen: 43.741 ng
RT: 16.839 min Scan# 2338
Delta R.T. 0.005 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:266 Resp: 638293

Ion	Ratio	Lower	Upper
266	100		
268	63.8	51.3	76.9
264	63.6	50.5	75.7

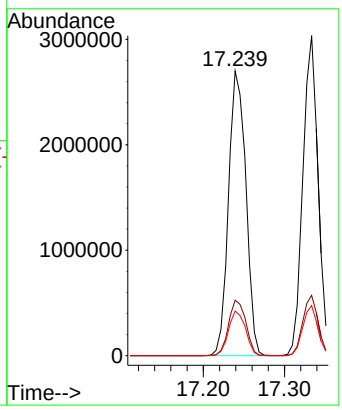




#71
Phenanthrene
Concen: 41.785 ng
RT: 17.239 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:178 Resp: 400574

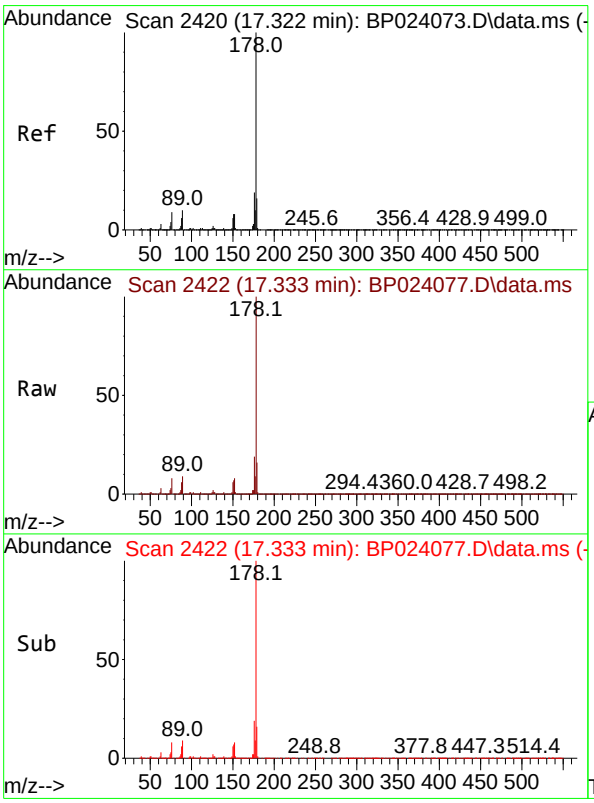
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.7	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

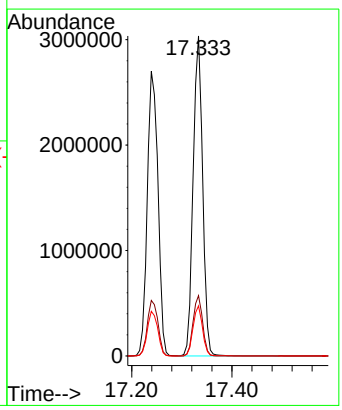
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

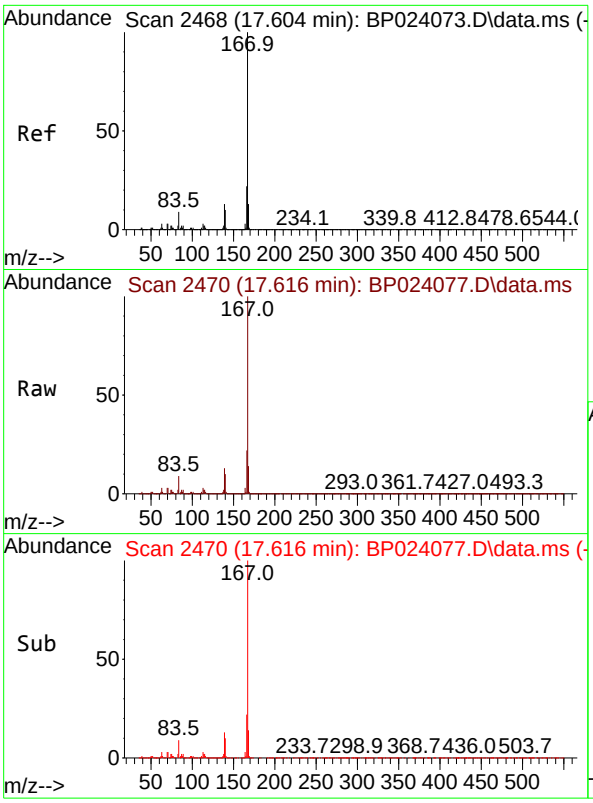


#72
Anthracene
Concen: 43.318 ng
RT: 17.333 min Scan# 2422
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:178 Resp: 3979469

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.7	12.6	19.0

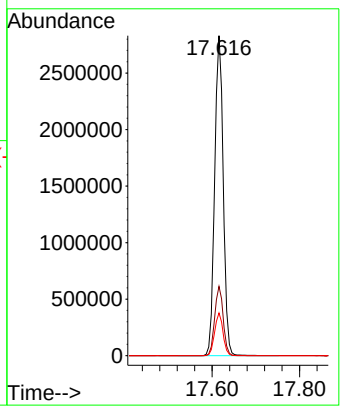




#73
Carbazole
Concen: 44.086 ng
RT: 17.616 min Scan# 24
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:167 Resp: 385876

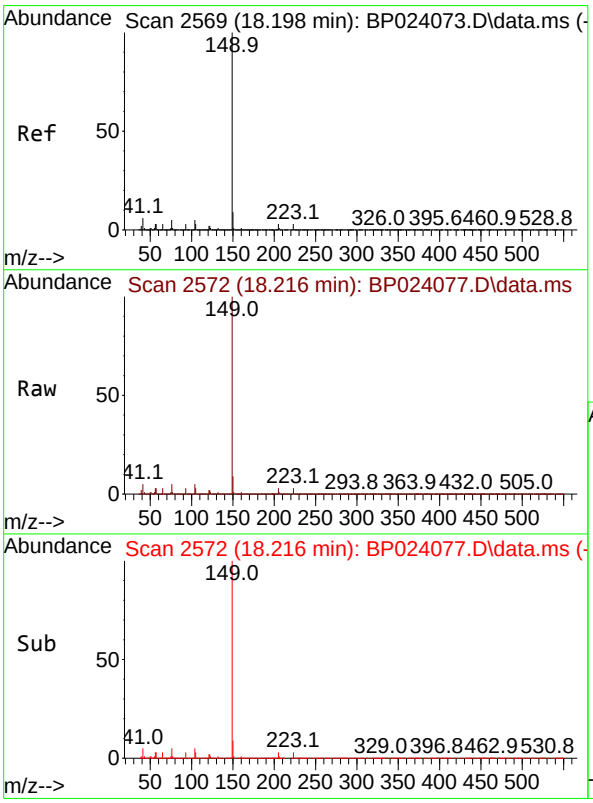
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	13.4	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

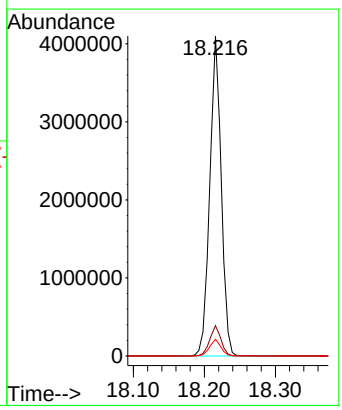
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

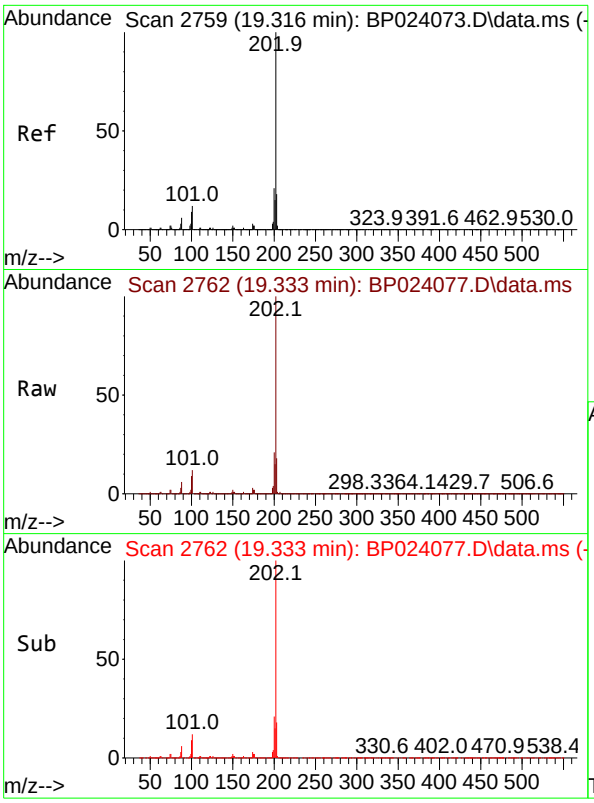


#74
Di-n-butylphthalate
Concen: 44.995 ng
RT: 18.216 min Scan# 2572
Delta R.T. 0.017 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:149 Resp: 4595361

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.2	4.2	6.2

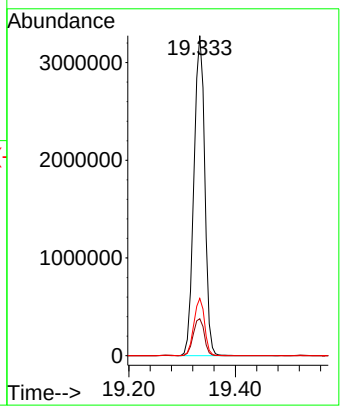




#75
Fluoranthene
Concen: 42.584 ng
RT: 19.333 min Scan# 2
Delta R.T. 0.017 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:202 Resp: 461745

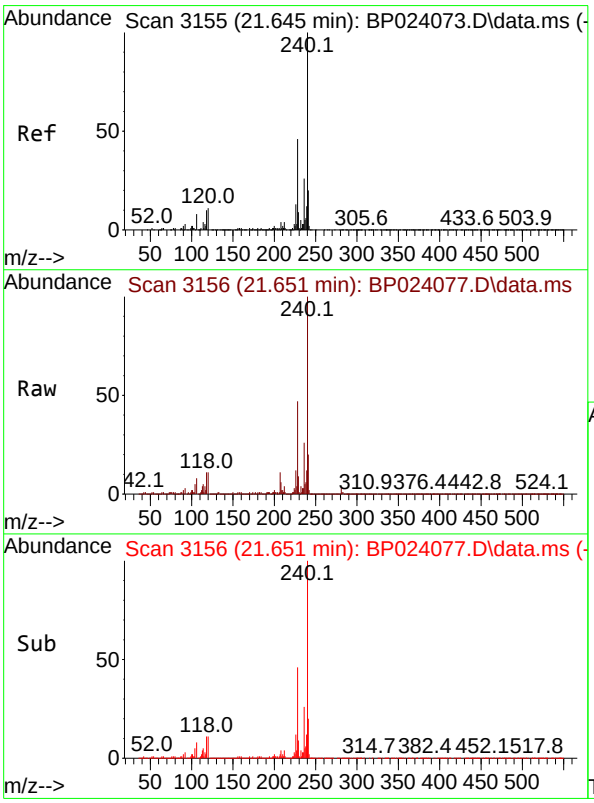
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.9
203	17.9	0.0	37.7



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

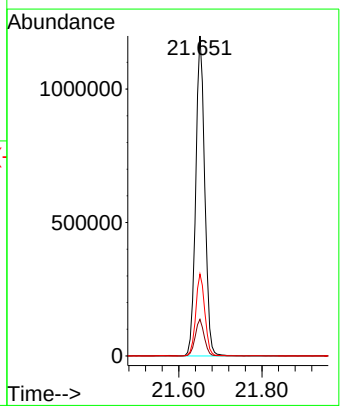
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

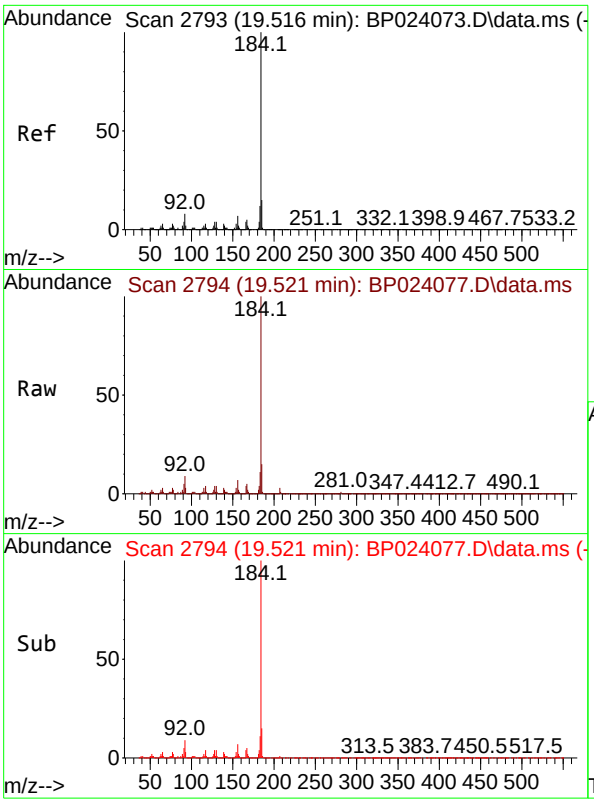


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.651 min Scan# 3156
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:240 Resp: 1807335

Ion	Ratio	Lower	Upper
240	100		
120	11.5	8.9	13.3
236	25.6	20.7	31.1

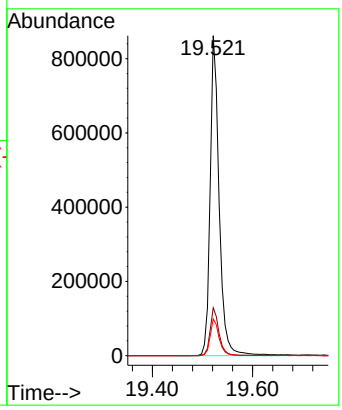




#77
Benzidine
Concen: 48.907 ng
RT: 19.521 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:184 Resp: 107709

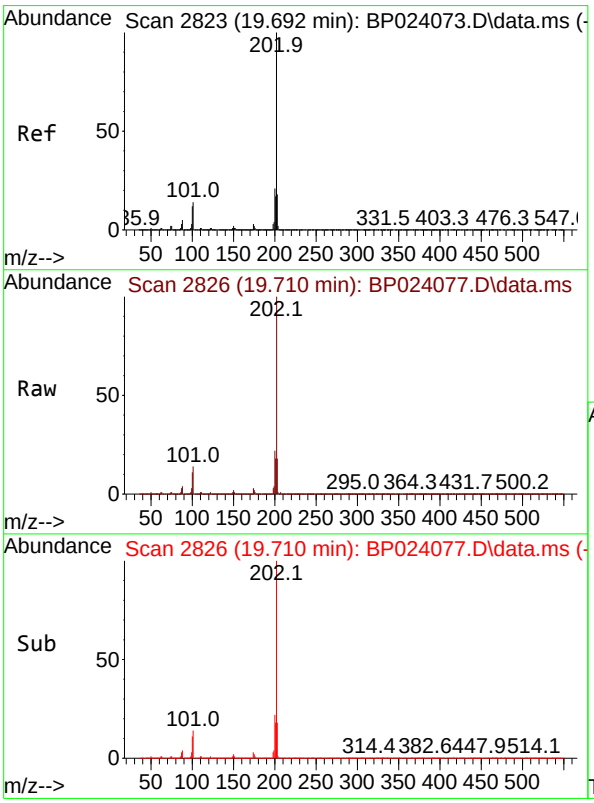
Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.8	17.8
183	11.5	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

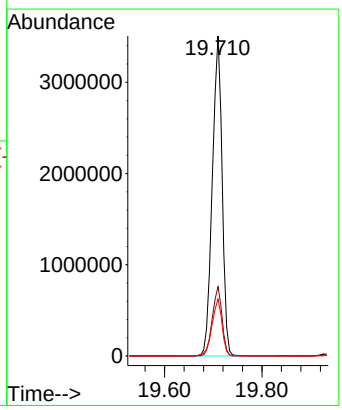
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

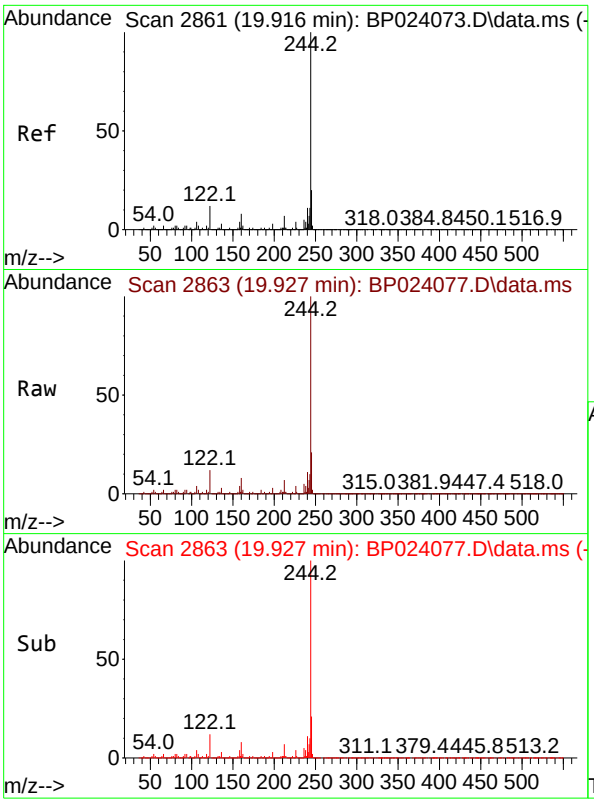


#78
Pyrene
Concen: 42.445 ng
RT: 19.710 min Scan# 2826
Delta R.T. 0.017 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:202 Resp: 4872748

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.2	25.8
203	17.8	14.4	21.6

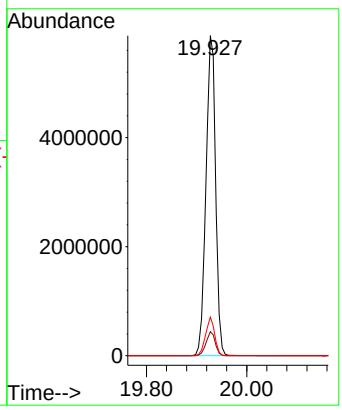




#79
Terphenyl-d14
Concen: 85.714 ng
RT: 19.927 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:244 Resp: 782887

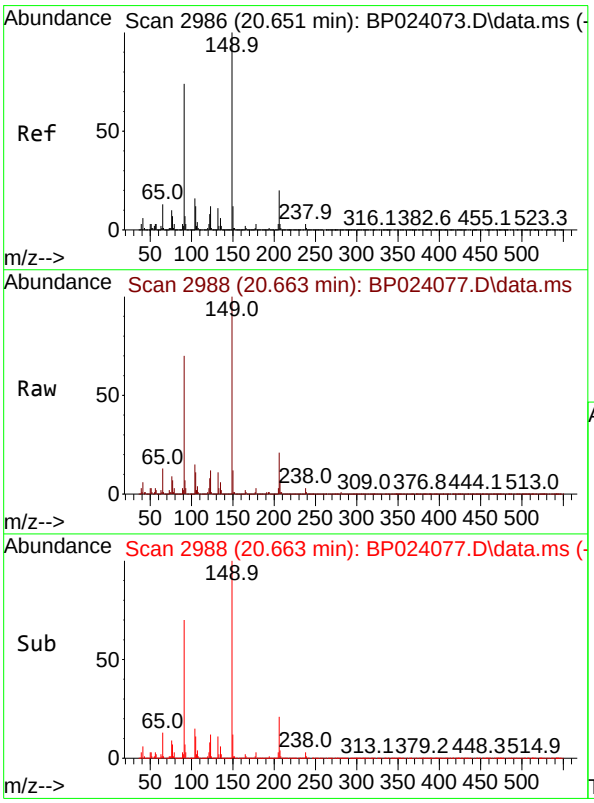
Ion	Ratio	Lower	Upper
244	100		
212	7.5	5.9	8.9
122	12.0	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

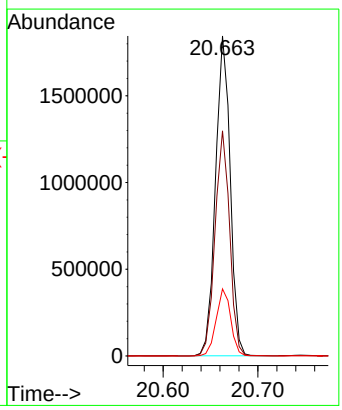
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

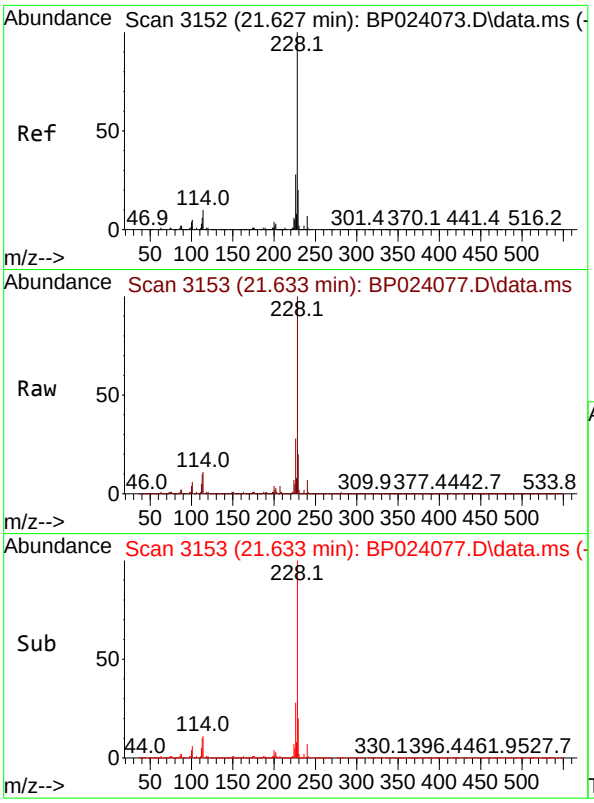


#80
Butylbenzylphthalate
Concen: 45.272 ng
RT: 20.663 min Scan# 2988
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:149 Resp: 1991572

Ion	Ratio	Lower	Upper
149	100		
91	70.3	59.4	89.0
206	21.0	16.2	24.2

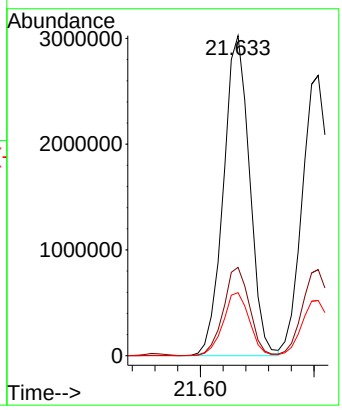




#81
Benzo(a)anthracene
Concen: 42.641 ng
RT: 21.633 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:228 Resp: 483249

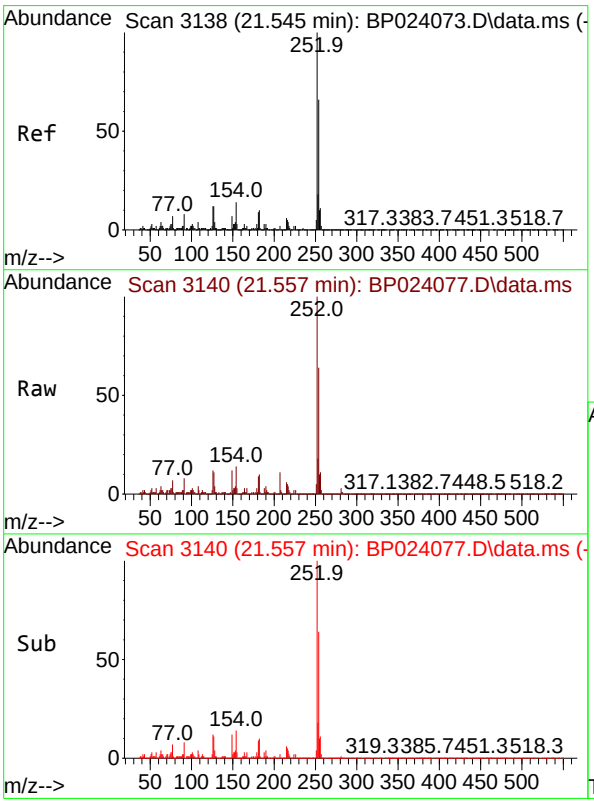
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.4
229	19.7	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

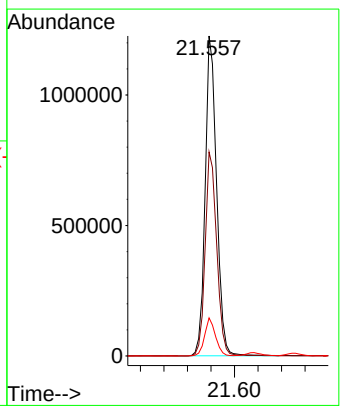
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

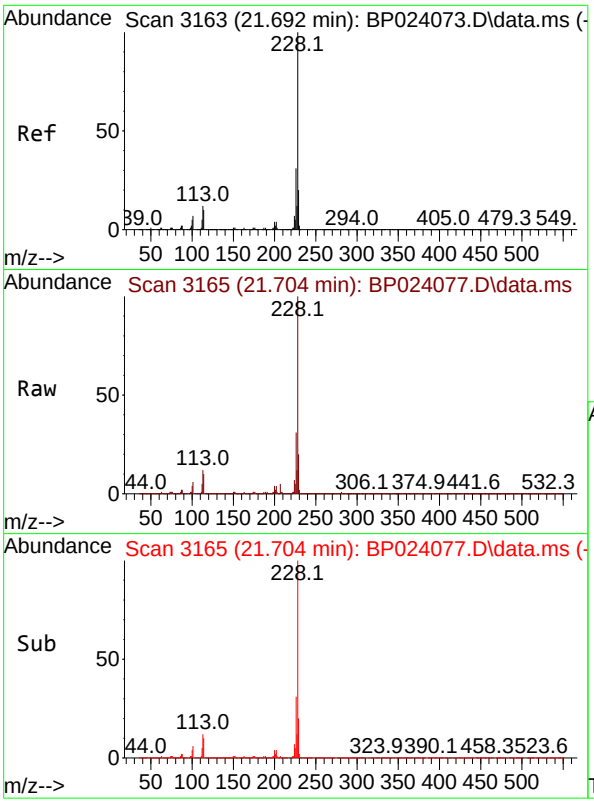


#82
3,3'-Dichlorobenzidine
Concen: 46.646 ng
RT: 21.557 min Scan# 3140
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:252 Resp: 1651904

Ion	Ratio	Lower	Upper
252	100		
254	63.7	52.4	78.6
126	11.9	9.6	14.4

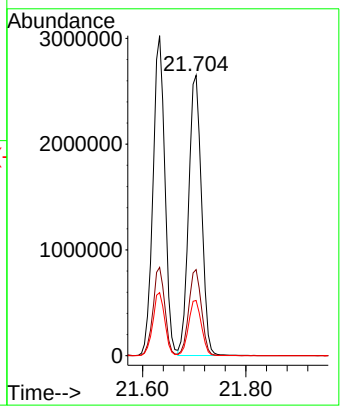




#83
Chrysene
Concen: 41.771 ng
RT: 21.704 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:228 Resp: 456471

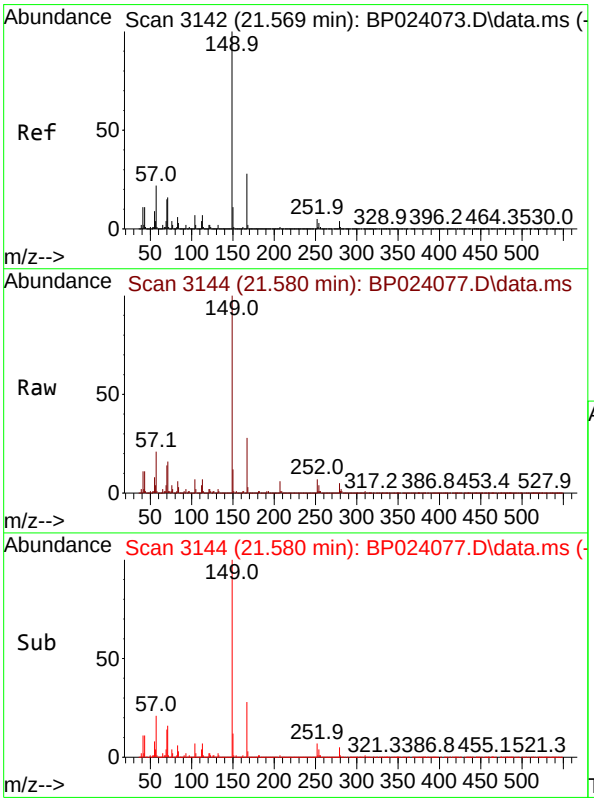
Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.5	36.7
229	19.7	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations
APPROVED

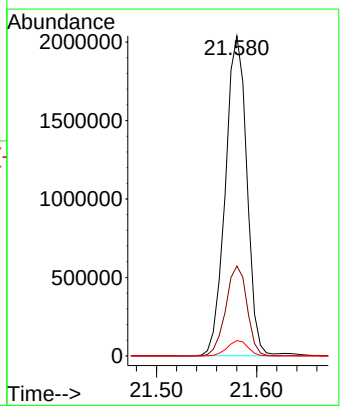
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

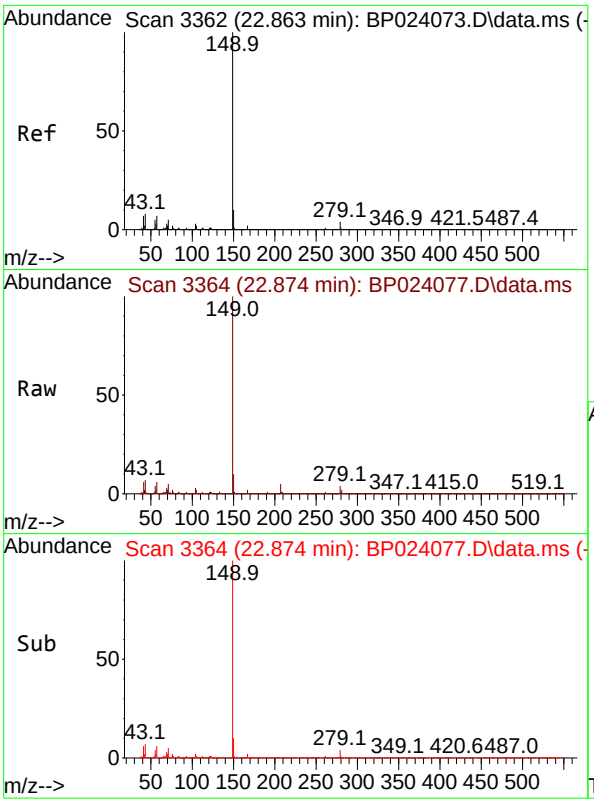


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.448 ng
RT: 21.580 min Scan# 3144
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:149 Resp: 3031786

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.2	33.2
279	4.8	3.6	5.4

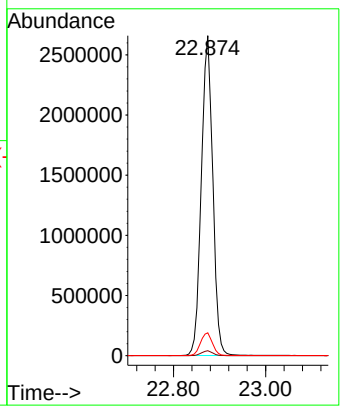




#85
Di-n-octyl phthalate
Concen: 43.233 ng
RT: 22.874 min Scan# 3
Delta R.T. 0.011 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:149 Resp: 460991

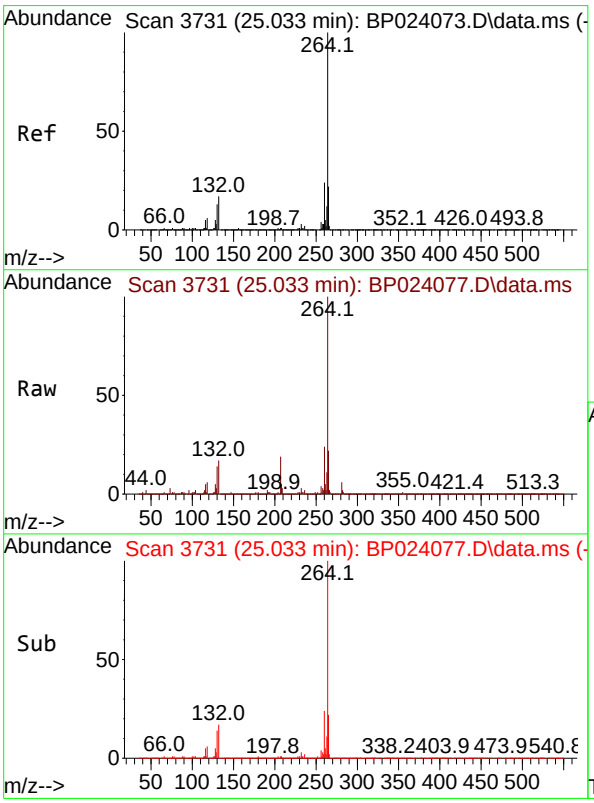
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	7.5	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

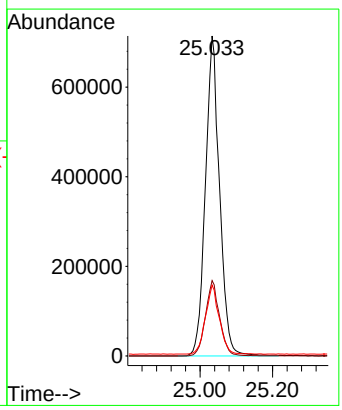
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

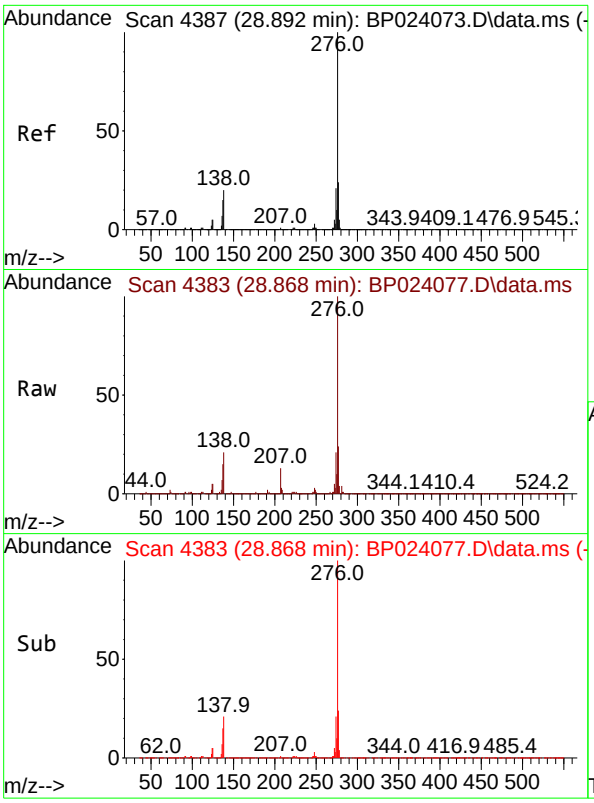


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.033 min Scan# 3731
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:264 Resp: 1932598

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.0	28.6
265	22.2	17.8	26.8

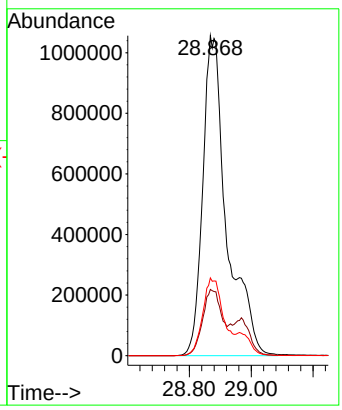




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.403 ng m
RT: 28.868 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:276 Resp: 569241

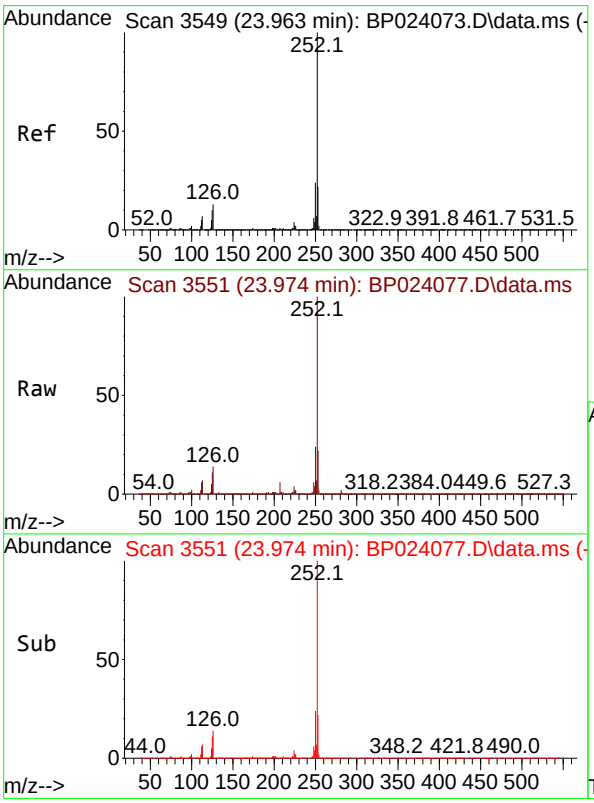
Ion	Ratio	Lower	Upper
276	100		
138	16.4	14.2	21.4
277	20.7	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

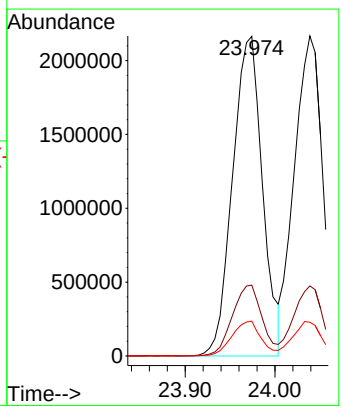
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

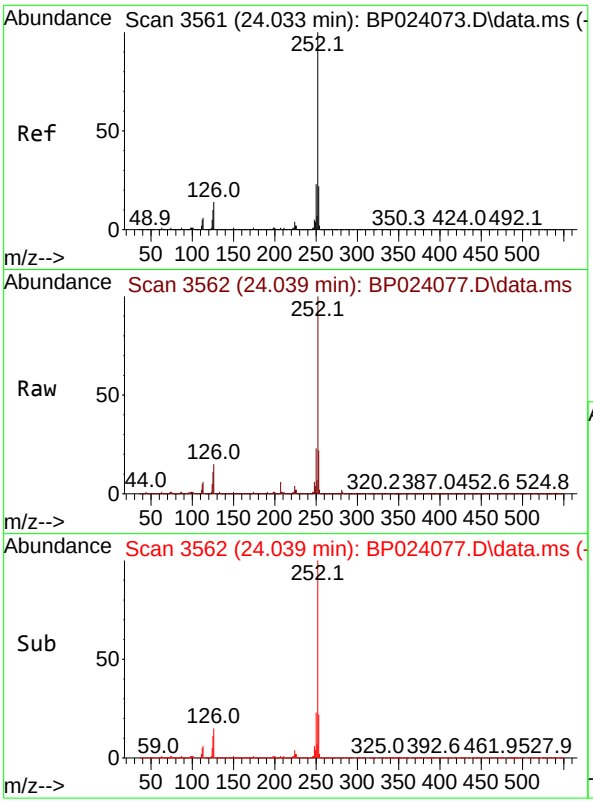


#88
Benzo(b)fluoranthene
Concen: 40.777 ng
RT: 23.974 min Scan# 3551
Delta R.T. 0.012 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:252 Resp: 5004416

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.9	8.4	12.6

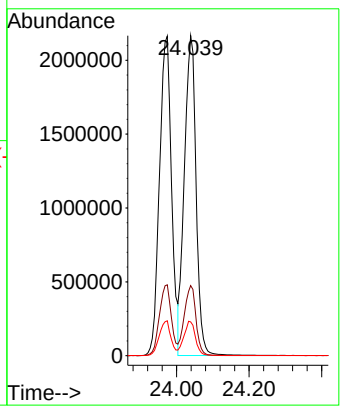




#89
Benzo(k)fluoranthene
Concen: 40.683 ng
RT: 24.039 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:252 Resp: 485984

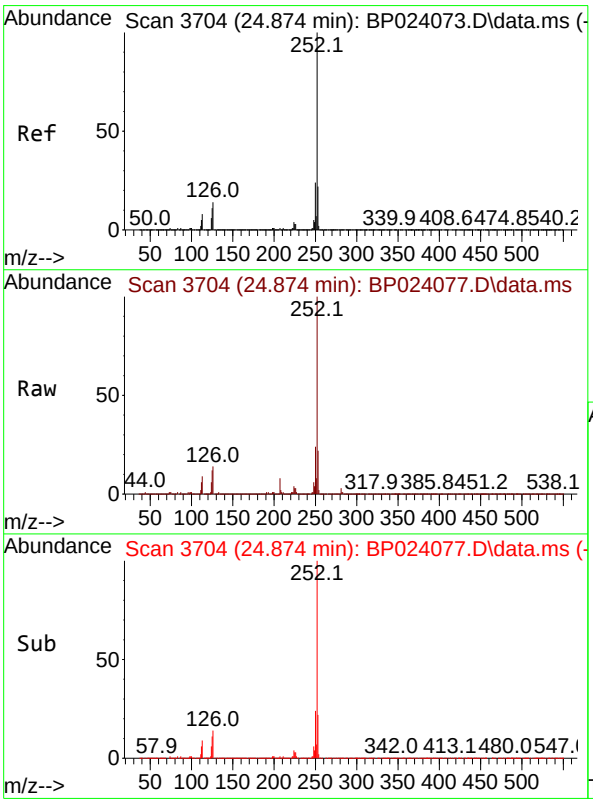
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	10.6	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

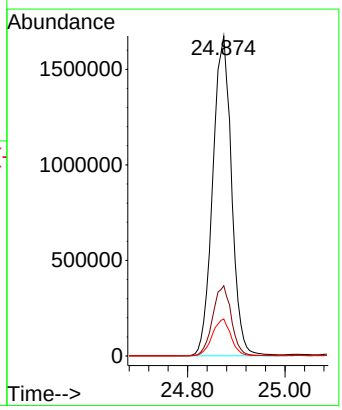
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025

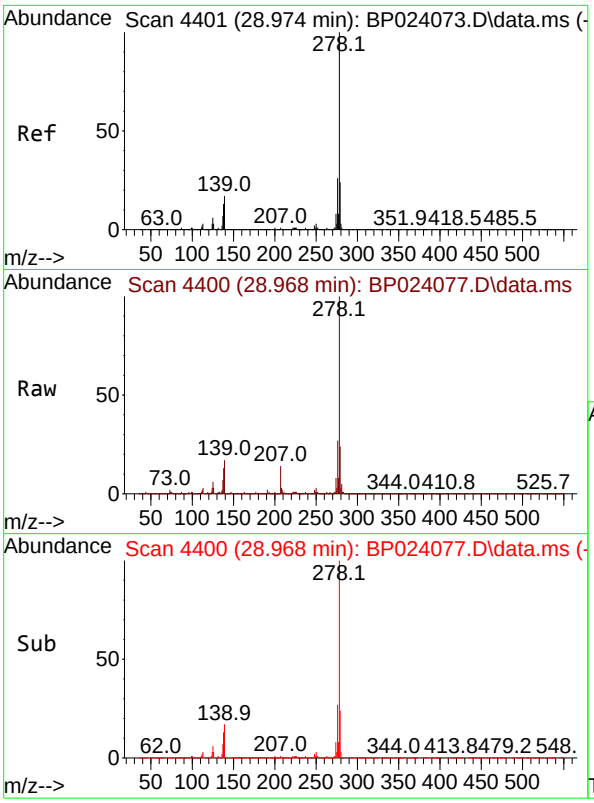


#90
Benzo(a)pyrene
Concen: 43.030 ng
RT: 24.874 min Scan# 3704
Delta R.T. -0.000 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:252 Resp: 4481682

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	11.6	8.8	13.2

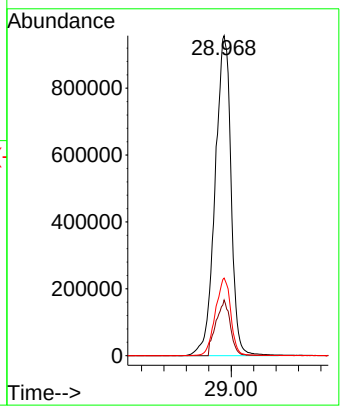




#91
Dibenzo(a,h)anthracene
Concen: 40.829 ng
RT: 28.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:278 Resp: 471992

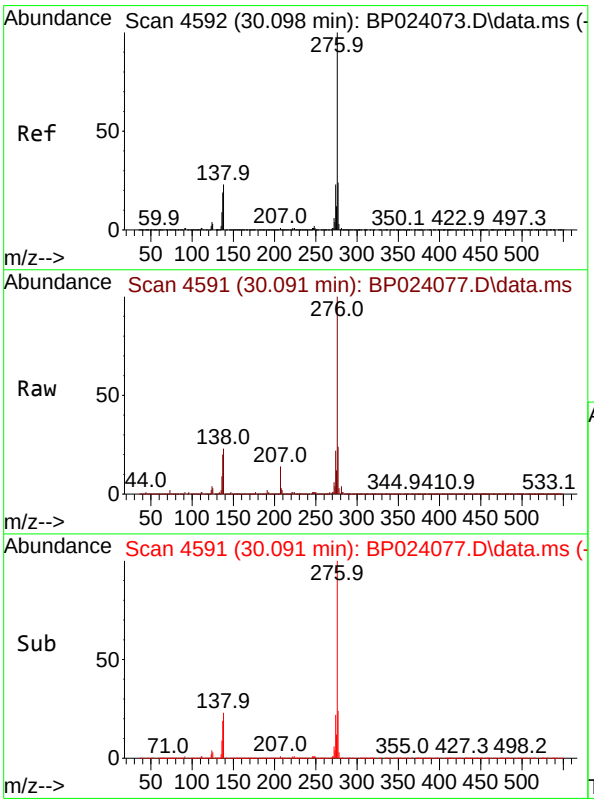
Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.4	20.0
279	24.2	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Manual Integrations APPROVED

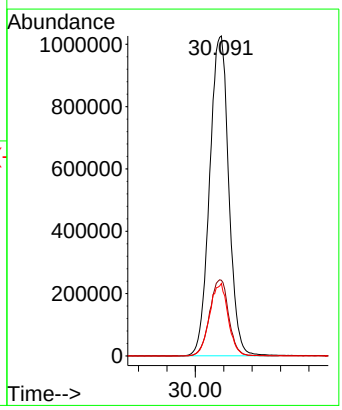
Reviewed By :Rahul Chavli 02/20/2025
Supervised By :Jagrut Upadhyay 02/20/2025



#92
Benzo(g,h,i)perylene
Concen: 40.867 ng
RT: 30.091 min Scan# 4591
Delta R.T. -0.006 min
Lab File: BP024077.D
Acq: 17 Feb 2025 16:55

Tgt Ion:276 Resp: 4793937

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.9	28.3
138	22.6	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	93	0.00
2		1,4-Dioxane	0.503	0.531	-5.6	92	0.00
3		Pyridine	1.307	1.463	-11.9	96	0.00
4		n-Nitrosodimethylamine	0.464	0.493	-6.2	92	0.00
5	S	2-Fluorophenol	1.282	1.396	-8.9	92	0.00
6		Aniline	1.509	1.689	-11.9	99	0.00
7	S	Phenol-d6	1.647	1.819	-10.4	96	0.00
8		2-Chlorophenol	1.357	1.496	-10.2	95	0.00
9		Benzaldehyde	0.752	0.816	-8.5	98	0.00
10	C	Phenol	1.657	1.800	-8.6	96	0.00
11		bis(2-Chloroethyl)ether	1.305	1.401	-7.4	95	0.00
12		1,3-Dichlorobenzene	1.490	1.595	-7.0	94	0.00
13	C	1,4-Dichlorobenzene	1.507	1.614	-7.1	94	0.00
14		1,2-Dichlorobenzene	1.447	1.556	-7.5	95	0.00
15		Benzyl Alcohol	1.008	1.148	-13.9	100	0.00
16		2,2'-oxybis(1-Chloropropane	1.267	1.370	-8.1	97	0.00
17		2-Methylphenol	1.010	1.144	-13.3	98	0.00
18		Hexachloroethane	0.543	0.588	-8.3	96	0.00
19	P	n-Nitroso-di-n-propylamine	0.886	1.030	-16.3	102	0.00
20		3+4-Methylphenols	1.373	1.561	-13.7	100	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
22		Acetophenone	0.514	0.539	-4.9	101	0.00
23	S	Nitrobenzene-d5	0.358	0.378	-5.6	100	0.00
24		Nitrobenzene	0.353	0.370	-4.8	99	0.00
25		Isophorone	0.586	0.649	-10.8	106	0.00
26	C	2-Nitrophenol	0.163	0.185	-13.5	104	0.00
27		2,4-Dimethylphenol	0.213	0.234	-9.9	104	0.00
28		bis(2-Chloroethoxy)methane	0.425	0.452	-6.4	104	0.00
29	C	2,4-Dichlorophenol	0.291	0.327	-12.4	104	0.00
30		1,2,4-Trichlorobenzene	0.334	0.351	-5.1	100	0.00
31		Naphthalene	1.075	1.121	-4.3	100	0.00
32		Benzoic acid	0.196	0.228	-16.3	113	0.00
33		4-Chloroaniline	0.379	0.411	-8.4	104	0.00
34	C	Hexachlorobutadiene	0.193	0.203	-5.2	99	0.00
35		Caprolactam	0.088	0.101	-14.8	114	0.00
36	C	4-Chloro-3-methylphenol	0.299	0.338	-13.0	107	0.00
37		2-Methylnaphthalene	0.715	0.767	-7.3	104	0.00
38		1-Methylnaphthalene	0.695	0.748	-7.6	105	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	111	0.00
40		1,2,4,5-Tetrachlorobenzene	0.615	0.641	-4.2	105	0.00
41	P	Hexachlorocyclopentadiene	0.229	0.242	-5.7	103	0.00
42	S	2,4,6-Tribromophenol	0.245	0.282	-15.1	122	0.00
43	C	2,4,6-Trichlorophenol	0.375	0.416	-10.9	109	0.00
44		2,4,5-Trichlorophenol	0.410	0.444	-8.3	109	0.00
45	S	2-Fluorobiphenyl	1.431	1.491	-4.2	106	0.00
46		1,1'-Biphenyl	1.554	1.625	-4.6	111	0.00
47		2-Chloronaphthalene	1.175	1.214	-3.3	108	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	0.278	0.312	-12.2	114	0.00
49		Acenaphthylene	1.731	1.853	-7.0	110	0.00
50		Dimethylphthalate	1.411	1.520	-7.7	117	0.00
51		2,6-Dinitrotoluene	0.287	0.321	-11.8	117	0.00
52	C	Acenaphthene	1.115	1.179	-5.7	113	0.00
53		3-Nitroaniline	0.307	0.350	-14.0	118	0.00
54	P	2,4-Dinitrophenol	0.153	0.171	-11.8	121	0.00
55		Dibenzofuran	1.811	1.897	-4.7	111	0.00
56	P	4-Nitrophenol	0.265	0.298	-12.5	119	0.00
57		2,4-Dinitrotoluene	0.373	0.427	-14.5	117	0.00
58		Fluorene	1.414	1.516	-7.2	112	0.00
59		2,3,4,6-Tetrachlorophenol	0.356	0.395	-11.0	117	0.00
60		Diethylphthalate	1.400	1.515	-8.2	117	0.00
61		4-Chlorophenyl-phenylether	0.696	0.739	-6.2	113	0.00
62		4-Nitroaniline	0.318	0.370	-16.4	116	0.00
63		Azobenzene	1.312	1.409	-7.4	113	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	118	0.01
65		4,6-Dinitro-2-methylphenol	0.116	0.127	-9.5	122	0.00
66	c	n-Nitrosodiphenylamine	0.624	0.663	-6.3	116	0.00
67		4-Bromophenyl-phenylether	0.225	0.240	-6.7	118	0.00
68		Hexachlorobenzene	0.264	0.276	-4.5	117	0.01
69		Atrazine	0.160	0.190	-18.8	125	0.00
70	C	Pentachlorophenol	0.172	0.188	-9.3	123	0.00
71		Phenanthrene	1.128	1.178	-4.4	117	0.01
72		Anthracene	1.081	1.170	-8.2	117	0.01
73		Carbazole	1.030	1.135	-10.2	120	0.01
74		Di-n-butylphthalate	1.201	1.351	-12.5	124	0.02
75	C	Fluoranthene	1.275	1.358	-6.5	120	0.02
76	I	Chrysene-d12	1.000	1.000	0.0	121	0.00
77		Benzidine	0.244	0.298	-22.1	101	0.00
78		Pyrene	1.270	1.348	-6.1	119	0.02
79	S	Terphenyl-d14	1.011	1.083	-7.1	121	0.01
80		Butylbenzylphthalate	0.487	0.551	-13.1	133	0.01
81		Benzo(a)anthracene	1.254	1.337	-6.6	124	0.00
82		3,3'-Dichlorobenzidine	0.392	0.457	-16.6	128	0.01
83		Chrysene	1.209	1.263	-4.5	120	0.01
84		Bis(2-ethylhexyl)phthalate	0.738	0.839	-13.7	131	0.01
85	c	Di-n-octyl phthalate	1.180	1.275	-8.1	133	0.01
86	I	Perylene-d12	1.000	1.000	0.0	129	0.00
87		Indeno(1,2,3-cd)pyrene	1.423	1.473	-3.5	120	-0.02
88		Benzo(b)fluoranthene	1.270	1.295	-2.0	123	0.01
89		Benzo(k)fluoranthene	1.236	1.257	-1.7	122	0.00
90	C	Benzo(a)pyrene	1.078	1.159	-7.5	127	0.00
91		Dibenzo(a,h)anthracene	1.196	1.221	-2.1	119	0.00
92		Benzo(g,h,i)perylene	1.214	1.240	-2.1	118	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	93	0.00
2		1,4-Dioxane	40.000	42.249	-5.6	92	0.00
3		Pyridine	40.000	44.756	-11.9	96	0.00
4		n-Nitrosodimethylamine	40.000	42.517	-6.3	92	0.00
5	S	2-Fluorophenol	80.000	87.132	-8.9	92	0.00
6		Aniline	40.000	44.785	-12.0	99	0.00
7	S	Phenol-d6	80.000	88.355	-10.4	96	0.00
8		2-Chlorophenol	40.000	44.120	-10.3	95	0.00
9		Benzaldehyde	40.000	43.395	-8.5	98	0.00
10	C	Phenol	40.000	43.473	-8.7	96	0.00
11		bis(2-Chloroethyl)ether	40.000	42.962	-7.4	95	0.00
12		1,3-Dichlorobenzene	40.000	42.808	-7.0	94	0.00
13	C	1,4-Dichlorobenzene	40.000	42.831	-7.1	94	0.00
14		1,2-Dichlorobenzene	40.000	43.037	-7.6	95	0.00
15		Benzyl Alcohol	40.000	45.541	-13.9	100	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	43.264	-8.2	97	0.00
17		2-Methylphenol	40.000	45.315	-13.3	98	0.00
18		Hexachloroethane	40.000	43.366	-8.4	96	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	46.505	-16.3	102	0.00
20		3+4-Methylphenols	40.000	45.470	-13.7	100	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	101	0.00
22		Acetophenone	40.000	41.961	-4.9	101	0.00
23	S	Nitrobenzene-d5	80.000	84.418	-5.5	100	0.00
24		Nitrobenzene	40.000	41.972	-4.9	99	0.00
25		Isophorone	40.000	44.270	-10.7	106	0.00
26	C	2-Nitrophenol	40.000	45.641	-14.1	104	0.00
27		2,4-Dimethylphenol	40.000	43.873	-9.7	104	0.00
28		bis(2-Chloroethoxy)methane	40.000	42.573	-6.4	104	0.00
29	C	2,4-Dichlorophenol	40.000	44.872	-12.2	104	0.00
30		1,2,4-Trichlorobenzene	40.000	42.066	-5.2	100	0.00
31		Naphthalene	40.000	41.704	-4.3	100	0.00
32		Benzoic acid	40.000	41.807	-4.5	113	0.00
33		4-Chloroaniline	40.000	43.382	-8.5	104	0.00
34	C	Hexachlorobutadiene	40.000	42.012	-5.0	99	0.00
35		Caprolactam	40.000	42.126	-5.3	114	0.00
36	C	4-Chloro-3-methylphenol	40.000	45.153	-12.9	107	0.00
37		2-Methylnaphthalene	40.000	42.910	-7.3	104	0.00
38		1-Methylnaphthalene	40.000	43.023	-7.6	105	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	111	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.724	-4.3	105	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.405	-6.0	103	0.00
42	S	2,4,6-Tribromophenol	80.000	91.945	-14.9	122	0.00
43	C	2,4,6-Trichlorophenol	40.000	44.356	-10.9	109	0.00
44		2,4,5-Trichlorophenol	40.000	43.327	-8.3	109	0.00
45	S	2-Fluorobiphenyl	80.000	83.379	-4.2	106	0.00
46		1,1'-Biphenyl	40.000	41.833	-4.6	111	0.00
47		2-Chloronaphthalene	40.000	41.318	-3.3	108	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	44.942	-12.4	114	0.00
49		Acenaphthylene	40.000	42.818	-7.0	110	0.00
50		Dimethylphthalate	40.000	43.088	-7.7	117	0.00
51		2,6-Dinitrotoluene	40.000	44.652	-11.6	117	0.00
52	C	Acenaphthene	40.000	42.322	-5.8	113	0.00
53		3-Nitroaniline	40.000	45.653	-14.1	118	0.00
54	P	2,4-Dinitrophenol	40.000	40.297	-0.7	121	0.00
55		Dibenzofuran	40.000	41.901	-4.8	111	0.00
56	P	4-Nitrophenol	40.000	44.967	-12.4	119	0.00
57		2,4-Dinitrotoluene	40.000	45.707	-14.3	117	0.00
58		Fluorene	40.000	42.876	-7.2	112	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	44.437	-11.1	117	0.00
60		Diethylphthalate	40.000	43.265	-8.2	117	0.00
61		4-Chlorophenyl-phenylether	40.000	42.494	-6.2	113	0.00
62		4-Nitroaniline	40.000	41.293	-3.2	116	0.00
63		Azobenzene	40.000	42.943	-7.4	113	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	118	0.01
65		4,6-Dinitro-2-methylphenol	40.000	40.594	-1.5	122	0.00
66	c	n-Nitrosodiphenylamine	40.000	42.516	-6.3	116	0.00
67		4-Bromophenyl-phenylether	40.000	42.694	-6.7	118	0.00
68		Hexachlorobenzene	40.000	41.804	-4.5	117	0.01
69		Atrazine	40.000	47.441	-18.6	125	0.00
70	C	Pentachlorophenol	40.000	43.741	-9.4	123	0.00
71		Phenanthrene	40.000	41.785	-4.5	117	0.01
72		Anthracene	40.000	43.318	-8.3	117	0.01
73		Carbazole	40.000	44.086	-10.2	120	0.01
74		Di-n-butylphthalate	40.000	44.995	-12.5	124	0.02
75	C	Fluoranthene	40.000	42.584	-6.5	120	0.02
76	I	Chrysene-d12	20.000	20.000	0.0	121	0.00
77		Benzidine	40.000	48.907	-22.3	101	0.00
78		Pyrene	40.000	42.445	-6.1	119	0.02
79	S	Terphenyl-d14	80.000	85.714	-7.1	121	0.01
80		Butylbenzylphthalate	40.000	45.272	-13.2	133	0.01
81		Benzo(a)anthracene	40.000	42.641	-6.6	124	0.00
82		3,3'-Dichlorobenzidine	40.000	46.646	-16.6	128	0.01
83		Chrysene	40.000	41.771	-4.4	120	0.01
84		Bis(2-ethylhexyl)phthalate	40.000	45.448	-13.6	131	0.01
85	c	Di-n-octyl phthalate	40.000	43.233	-8.1	133	0.01
86	I	Perylene-d12	20.000	20.000	0.0	129	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.403	-3.5	120	-0.02
88		Benzo(b)fluoranthene	40.000	40.777	-1.9	123	0.01
89		Benzo(k)fluoranthene	40.000	40.683	-1.7	122	0.00
90	C	Benzo(a)pyrene	40.000	43.030	-7.6	127	0.00
91		Dibenzo(a,h)anthracene	40.000	40.829	-2.1	119	0.00
92		Benzo(g,h,i)perylene	40.000	40.867	-2.2	118	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024077.D
Acq On : 17 Feb 2025 16:55
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP021725

Quant Time: Feb 18 02:29:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/28/2025 10:03

Lab File ID: BF141804.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	1.228		-1.9	
Benzaldehyde	0.948	0.794		-16.2	
Phenol-d6	1.630	1.583		-2.9	
Phenol	1.742	1.704		-2.2	20.0
bis(2-Chloroethyl)ether	1.328	1.308		-1.5	
2-Chlorophenol	1.355	1.327		-2.1	
2-Methylphenol	1.118	1.109		-0.8	
2,2-oxybis(1-Chloropropane)	2.016	1.998		-0.9	
Acetophenone	0.487	0.479		-1.6	
3+4-Methylphenols	1.392	1.366		-1.9	
n-Nitroso-di-n-propylamine	1.072	1.048	0.050	-2.2	
Nitrobenzene-d5	0.313	0.354		13.1	
Hexachloroethane	0.547	0.547		0.0	
Nitrobenzene	0.335	0.373		11.3	
Isophorone	0.672	0.666		-0.9	
2-Nitrophenol	0.127	0.158		23.6	20.0
2,4-Dimethylphenol	0.247	0.248		0.4	
bis(2-Chloroethoxy)methane	0.429	0.424		-1.2	
2,4-Dichlorophenol	0.285	0.291		2.1	20.0
Naphthalene	1.028	1.017		-1.1	
4-Chloroaniline	0.377	0.373		-1.1	
Hexachlorobutadiene	0.194	0.196		1.0	20.0
Caprolactam	0.088	0.090		2.3	
4-Chloro-3-methylphenol	0.317	0.318		0.3	20.0
2-Methylnaphthalene	0.674	0.665		-1.3	
Hexachlorocyclopentadiene	0.241	0.248	0.050	2.9	
2,4,6-Trichlorophenol	0.373	0.408		9.4	20.0
2-Fluorobiphenyl	1.247	1.225		-1.8	
2,4,5-Trichlorophenol	0.369	0.371		0.5	
1,1-Biphenyl	1.522	1.527		0.3	
2-Chloronaphthalene	1.124	1.135		1.0	
2-Nitroaniline	0.260	0.329		26.5	
Dimethylphthalate	1.339	1.338		-0.1	
Acenaphthylene	1.685	1.683		-0.1	
2,6-Dinitrotoluene	0.226	0.277		22.6	
3-Nitroaniline	0.241	0.291		20.7	
Acenaphthene	1.137	1.146		0.8	20.0
2,4-Dinitrophenol	0.089	0.103	0.050	15.7	
4-Nitrophenol	0.198	0.230	0.050	16.2	

Form VII SV-1

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: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date/Time: 02/28/2025 10:03

Lab File ID: BF141804.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	1.631		-1.4	
2,4-Dinitrotoluene	0.269	0.346		28.6	
Diethylphthalate	1.343	1.353		0.7	
4-Chlorophenyl-phenylether	0.621	0.610		-1.8	
Fluorene	1.239	1.209		-2.4	
4-Nitroaniline	0.229	0.276		20.5	
4,6-Dinitro-2-methylphenol	0.081	0.100		23.5	
n-Nitrosodiphenylamine	0.657	0.658		0.2	20.0
2,4,6-Tribromophenol	0.188	0.196		4.3	
4-Bromophenyl-phenylether	0.234	0.239		2.1	
Hexachlorobenzene	0.247	0.249		0.8	
Atrazine	0.181	0.185		2.2	
Pentachlorophenol	0.156	0.165		5.8	20.0
Phenanthrene	1.070	1.063		-0.7	
Anthracene	1.072	1.076		0.4	
Carbazole	0.947	0.948		0.1	
Di-n-butylphthalate	1.200	1.214		1.2	
Fluoranthene	1.096	1.093		-0.3	20.0
Pyrene	1.732	1.728		-0.2	
Terphenyl-d14	1.236	1.213		-1.9	
Butylbenzylphthalate	0.629	0.649		3.2	
3,3-Dichlorobenzidine	0.379	0.361		-4.7	
Benzo(a)anthracene	1.321	1.260		-4.6	
Chrysene	1.218	1.181		-3.0	
Bis(2-ethylhexyl)phthalate	0.783	0.819		4.6	
Di-n-octyl phthalate	1.173	1.202		2.5	20.0
Benzo(b)fluoranthene	1.362	1.342		-1.5	
Benzo(k)fluoranthene	1.158	1.176		1.6	
Benzo(a)pyrene	1.093	1.101		0.7	20.0
Indeno(1,2,3-cd)pyrene	1.274	1.305		2.4	
Dibenzo(a,h)anthracene	1.040	1.074		3.3	
Benzo(g,h,i)perylene	1.065	1.071		0.6	
1,2,4,5-Tetrachlorobenzene	0.578	0.578		0.0	
1,4-Dioxane	0.568	0.568		0.0	20.0
2,3,4,6-Tetrachlorophenol	0.321	0.337		5.0	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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	6.886	152	307952	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	1208868	20.000	ng	0.00
39) Acenaphthene-d10	9.927	164	650148	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	1053744	20.000	ng	0.00
76) Chrysene-d12	14.051	240	667542	20.000	ng	0.00
86) Perylene-d12	15.521	264	556281	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1512849	78.454	ng	0.00
7) Phenol-d6	6.504	99	1950021	77.693	ng	0.00
23) Nitrobenzene-d5	7.451	82	1710466	90.443	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	510988	83.718	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	3186940	78.599	ng	0.00
79) Terphenyl-d14	12.998	244	3238464	78.491	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.675	88	349944	39.995	ng	99
3) Pyridine	3.440	79	883844	40.599	ng	100
4) n-Nitrosodimethylamine	3.387	42	425784	40.648	ng	98
6) Aniline	6.551	93	1039069	39.821	ng	99
8) 2-Chlorophenol	6.675	128	817490	39.189	ng	98
9) Benzaldehyde	6.439	77	489328	33.517	ng	99
10) Phenol	6.522	94	1049418	39.128	ng	98
11) bis(2-Chloroethyl)ether	6.622	93	805828	39.416	ng	100
12) 1,3-Dichlorobenzene	6.828	146	877251	39.269	ng	99
13) 1,4-Dichlorobenzene	6.904	146	875829	38.910	ng	99
14) 1,2-Dichlorobenzene	7.057	146	818172	38.926	ng	100
15) Benzyl Alcohol	7.022	79	782748	39.022	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.163	45	1230348	39.627	ng	100
17) 2-Methylphenol	7.128	107	683265	39.682	ng	99
18) Hexachloroethane	7.404	117	337185	40.023	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	645284	39.110	ng	99
20) 3+4-Methylphenols	7.286	107	841597	39.253	ng	91
22) Acetophenone	7.298	105	1158942	39.363	ng	97
24) Nitrobenzene	7.469	77	900617	44.470	ng	99
25) Isophorone	7.710	82	1610906	39.648	ng	100
26) 2-Nitrophenol	7.781	139	380793	42.651	ng	98
27) 2,4-Dimethylphenol	7.816	122	599708	40.154	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	1026184	39.593	ng	99
29) 2,4-Dichlorophenol	8.022	162	703360	40.822	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	762088	40.364	ng	99
31) Naphthalene	8.192	128	2459447	39.585	ng	99
32) Benzoic acid	7.928	122	507824	41.902	ng	99
33) 4-Chloroaniline	8.239	127	901464	39.571	ng	100
34) Hexachlorobutadiene	8.310	225	473403	40.350	ng	98
35) Caprolactam	8.610	113	218776	41.275	ng	97
36) 4-Chloro-3-methylphenol	8.710	107	769804	40.219	ng	99
37) 2-Methylnaphthalene	8.880	142	1607980	39.457	ng	100
38) 1-Methylnaphthalene	8.980	142	1555539	39.781	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	752182	40.059	ng	100
41) Hexachlorocyclopentadiene	9.033	237	322408	41.144	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	530364	43.726	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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

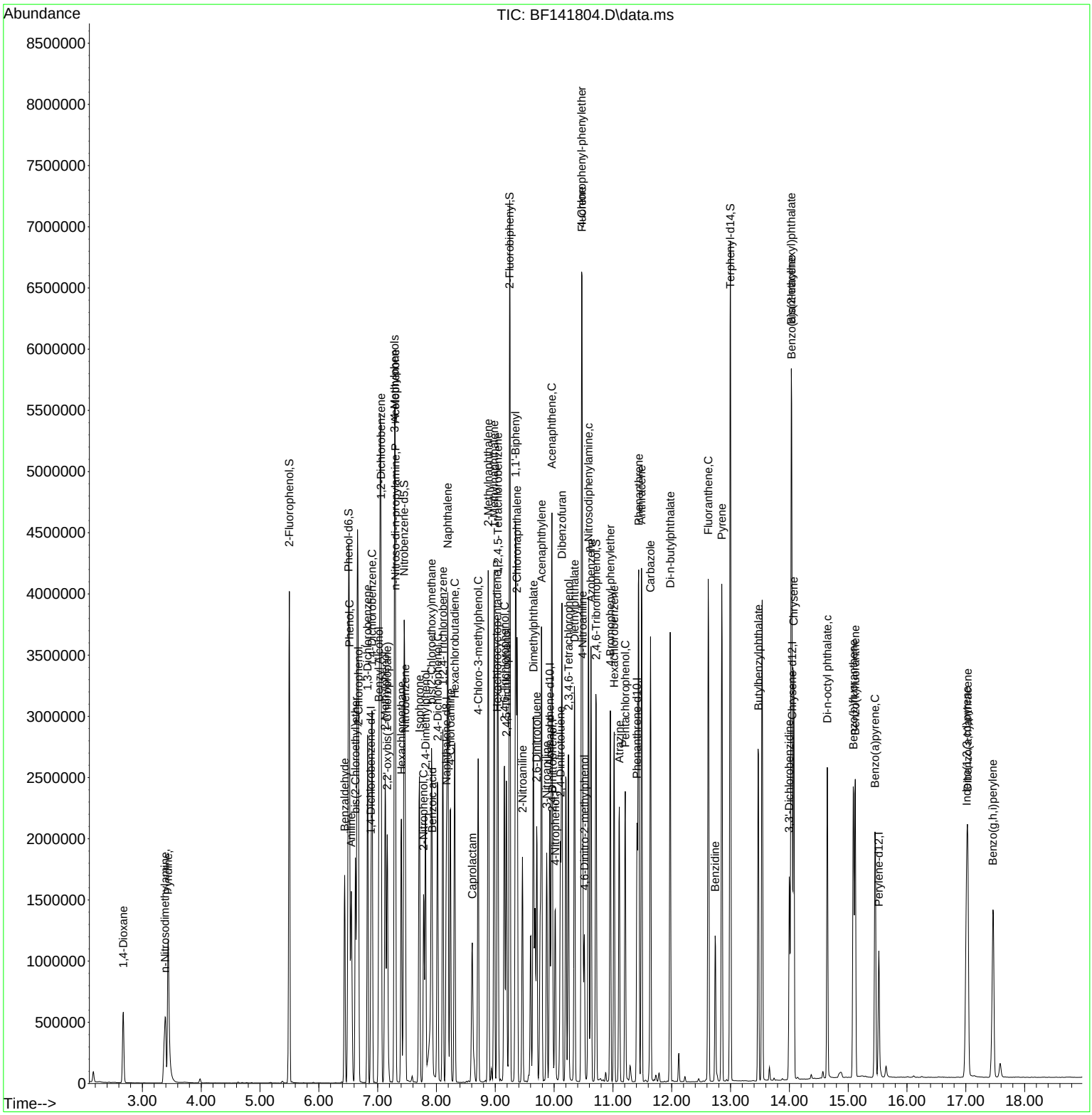
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	481985	40.130	ng		98
46) 1,1'-Biphenyl	9.345	154	1985558	40.123	ng		99
47) 2-Chloronaphthalene	9.369	162	1475274	40.391	ng		100
48) 2-Nitroaniline	9.463	65	427470	43.230	ng		98
49) Acenaphthylene	9.786	152	2188712	39.968	ng		99
50) Dimethylphthalate	9.651	163	1739977	39.964	ng		100
51) 2,6-Dinitrotoluene	9.704	165	360558	43.567	ng		99
52) Acenaphthene	9.963	154	1490686	40.342	ng		99
53) 3-Nitroaniline	9.875	138	378205	42.961	ng		99
54) 2,4-Dinitrophenol	9.975	184	134535	43.298	ng	#	54
55) Dibenzofuran	10.133	168	2121407	39.445	ng		100
56) 4-Nitrophenol	10.022	139	298837	46.472	ng		99
57) 2,4-Dinitrotoluene	10.110	165	449985	44.508	ng		96
58) Fluorene	10.474	166	1571475	39.008	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	438402	41.969	ng		100
60) Diethylphthalate	10.345	149	1759347	40.308	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	792536	39.265	ng		100
62) 4-Nitroaniline	10.486	138	359342	48.328	ng		98
63) Azobenzene	10.627	77	1833964	39.906	ng		99
65) 4,6-Dinitro-2-methylph...	10.516	198	210693	43.398	ng		97
66) n-Nitrosodiphenylamine	10.586	169	1386416	40.068	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	504470	40.987	ng		99
68) Hexachlorobenzene	11.022	284	523795	40.301	ng		100
69) Atrazine	11.110	200	389837	40.970	ng		99
70) Pentachlorophenol	11.210	266	348023	42.219	ng		99
71) Phenanthrene	11.439	178	2239614	39.734	ng		100
72) Anthracene	11.486	178	2266984	40.131	ng		100
73) Carbazole	11.639	167	1998599	40.064	ng		100
74) Di-n-butylphthalate	11.974	149	2558814	40.466	ng		100
75) Fluoranthene	12.621	202	2304411	39.900	ng		100
77) Benzidine	12.739	184	619427	73.724	ng		99
78) Pyrene	12.851	202	2306631	39.904	ng		100
80) Butylbenzylphthalate	13.474	149	865900	41.230	ng		98
81) Benzo(a)anthracene	14.039	228	1682769	38.165	ng		100
82) 3,3'-Dichlorobenzidine	13.998	252	481744	38.082	ng		99
83) Chrysene	14.074	228	1577279	38.806	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	1093145	41.802	ng		98
85) Di-n-octyl phthalate	14.645	149	1604218	40.976	ng		100
87) Indeno(1,2,3-cd)pyrene	17.015	276	1451648	40.981	ng		100
88) Benzo(b)fluoranthene	15.092	252	1493053	39.402	ng		100
89) Benzo(k)fluoranthene	15.121	252	1307888	40.609	ng		99
90) Benzo(a)pyrene	15.457	252	1225401	40.324	ng		99
91) Dibenzo(a,h)anthracene	17.033	278	1195240	41.338	ng		100
92) Benzo(g,h,i)perylene	17.462	276	1191181	40.214	ng		99

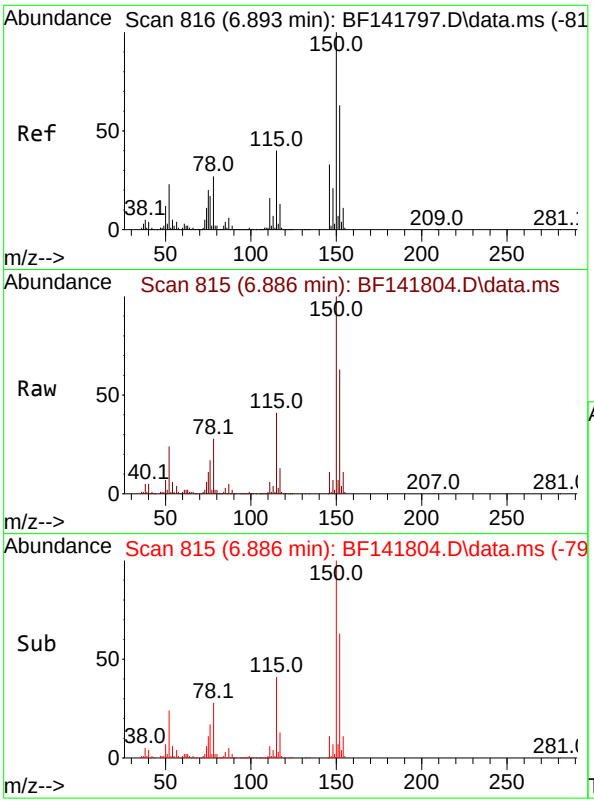
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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



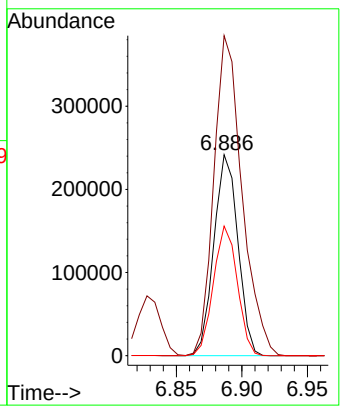


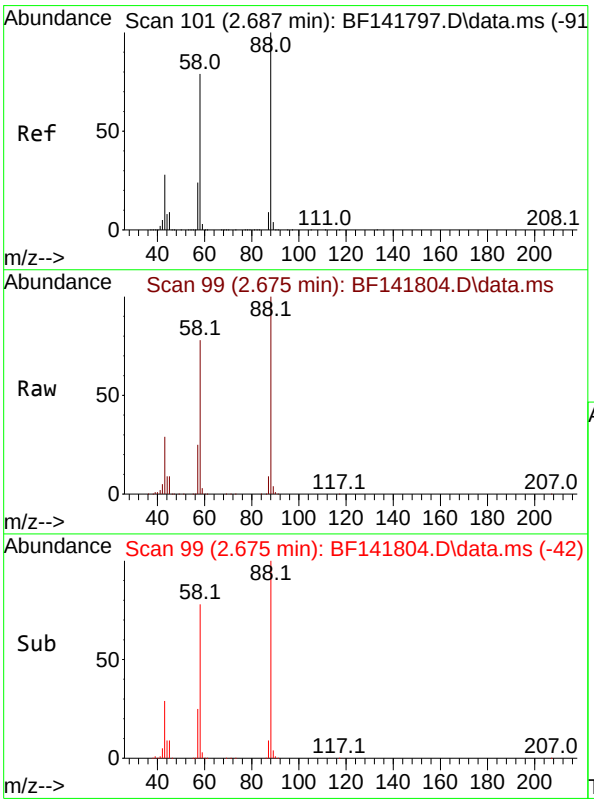
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.007 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 307952

Ion	Ratio	Lower	Upper
152	100		
150	159.3	127.5	191.3
115	64.5	51.4	77.2

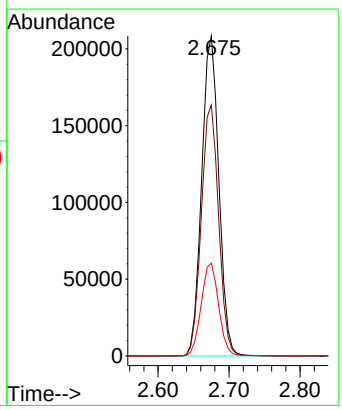


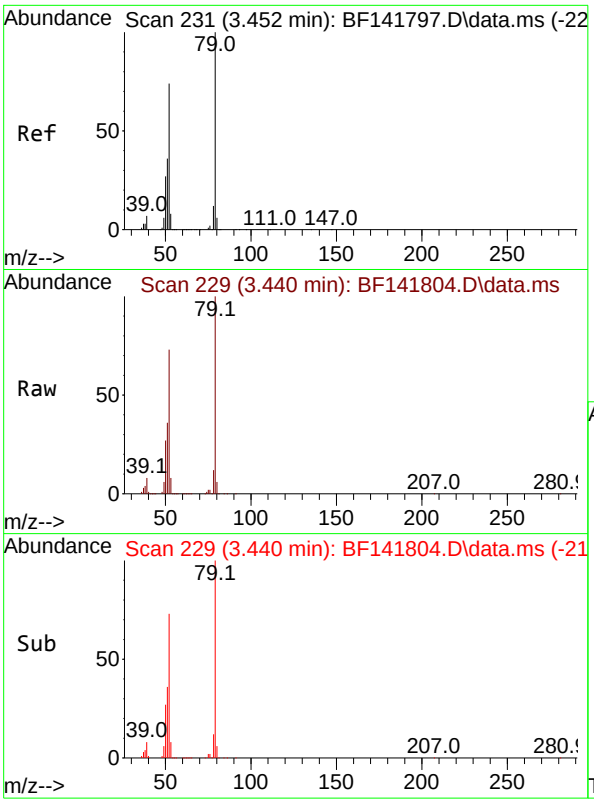


#2
1,4-Dioxane
Concen: 39.995 ng
RT: 2.675 min Scan# 99
Delta R.T. -0.012 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 88 Resp: 349944

Ion	Ratio	Lower	Upper
88	100		
58	79.3	63.9	95.9
43	29.2	23.0	34.6



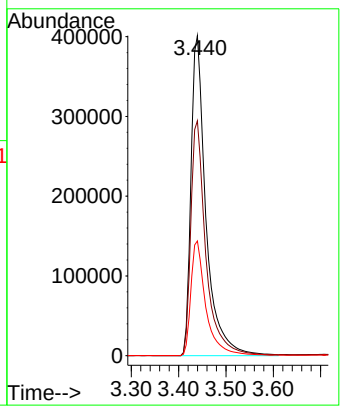


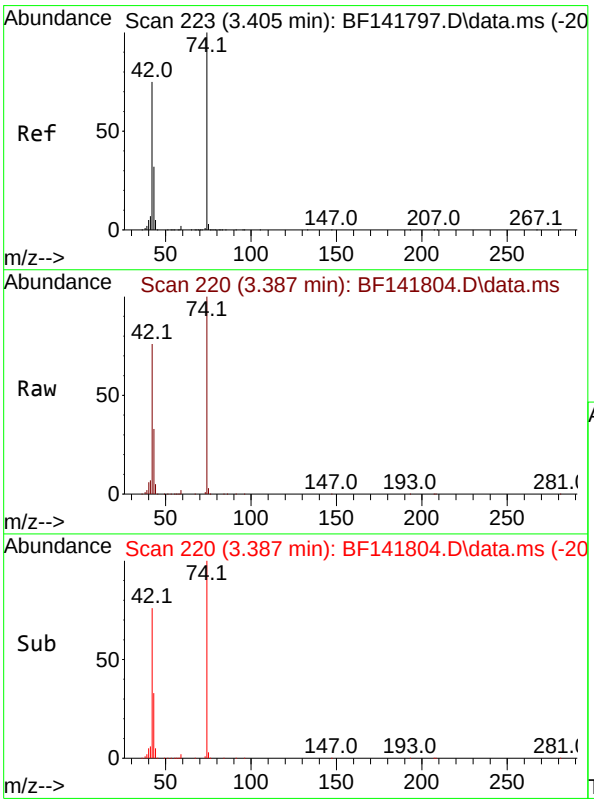
#3
Pyridine
Concen: 40.599 ng
RT: 3.440 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 883844

Ion	Ratio	Lower	Upper
79	100		
52	73.4	59.0	88.4
51	35.9	29.0	43.4

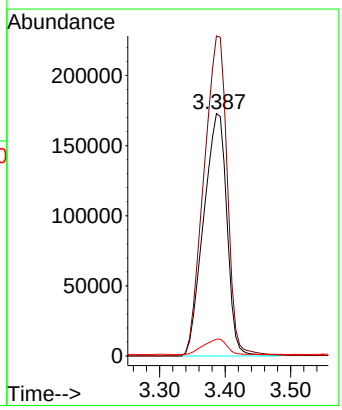


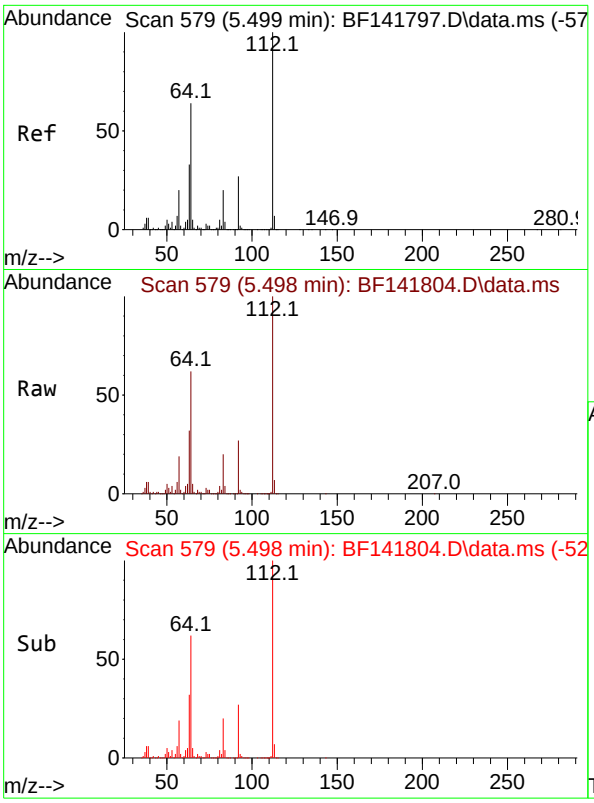


#4
n-Nitrosodimethylamine
Concen: 40.648 ng
RT: 3.387 min Scan# 220
Delta R.T. -0.018 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 42 Resp: 425784

Ion	Ratio	Lower	Upper
42	100		
74	132.0	107.1	160.7
44	7.0	6.6	9.8



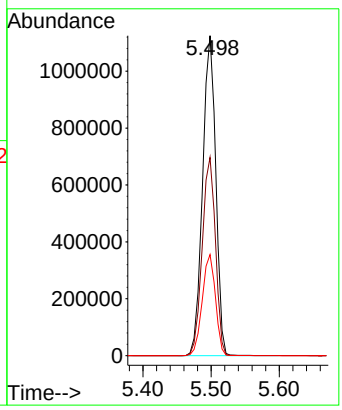


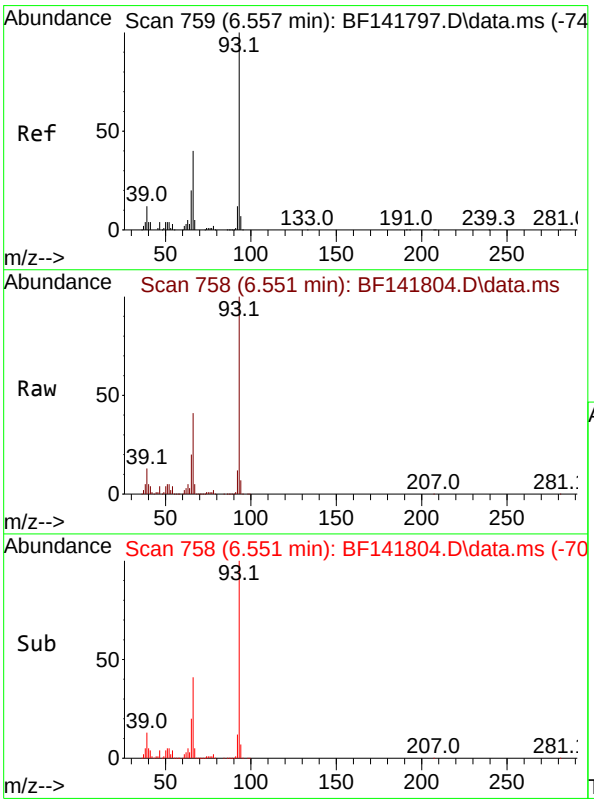
#5
2-Fluorophenol
Concen: 78.454 ng
RT: 5.498 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 1512849

Ion	Ratio	Lower	Upper
112	100		
64	61.9	51.3	76.9
63	31.6	26.2	39.4

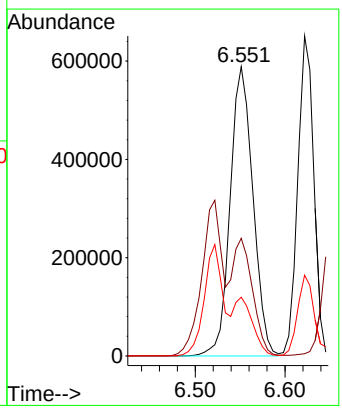


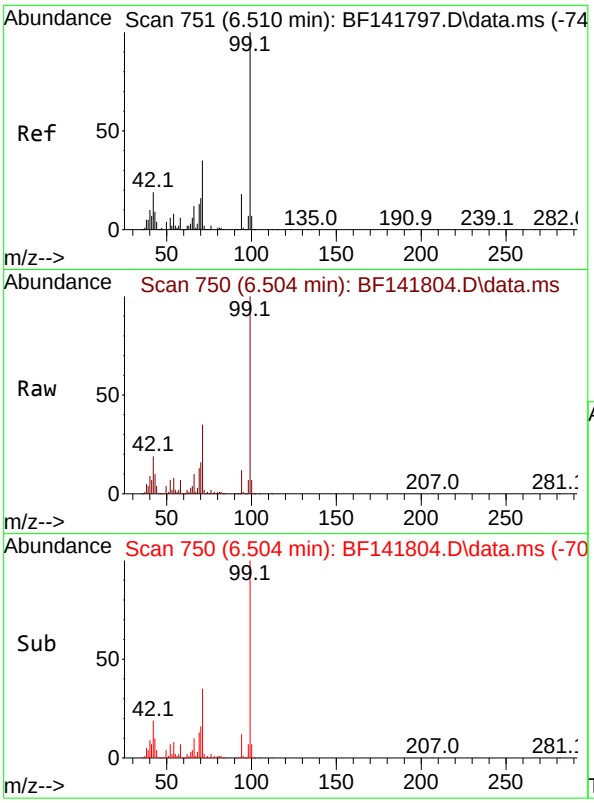


#6
Aniline
Concen: 39.821 ng
RT: 6.551 min Scan# 758
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 93 Resp: 1039069

Ion	Ratio	Lower	Upper
93	100		
66	40.6	32.3	48.5
65	20.3	15.9	23.9



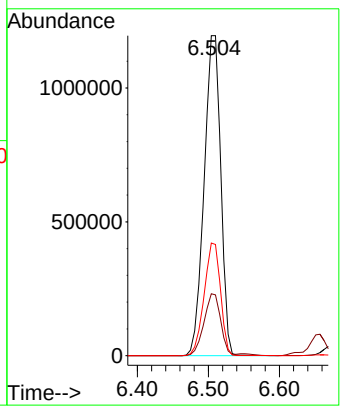


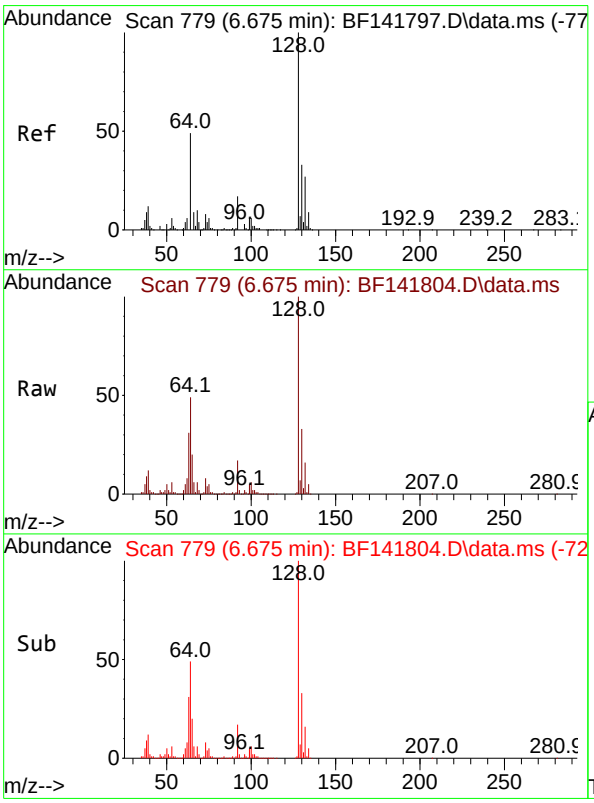
#7
Phenol-d6
Concen: 77.693 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 1950021

Ion	Ratio	Lower	Upper
99	100		
42	19.4	15.2	22.8
71	35.2	28.2	42.2

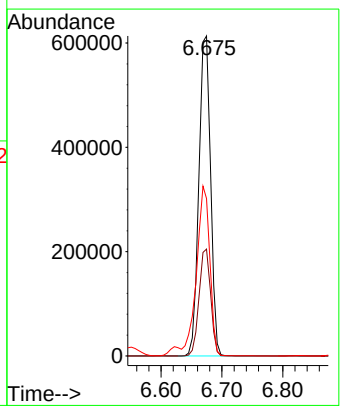


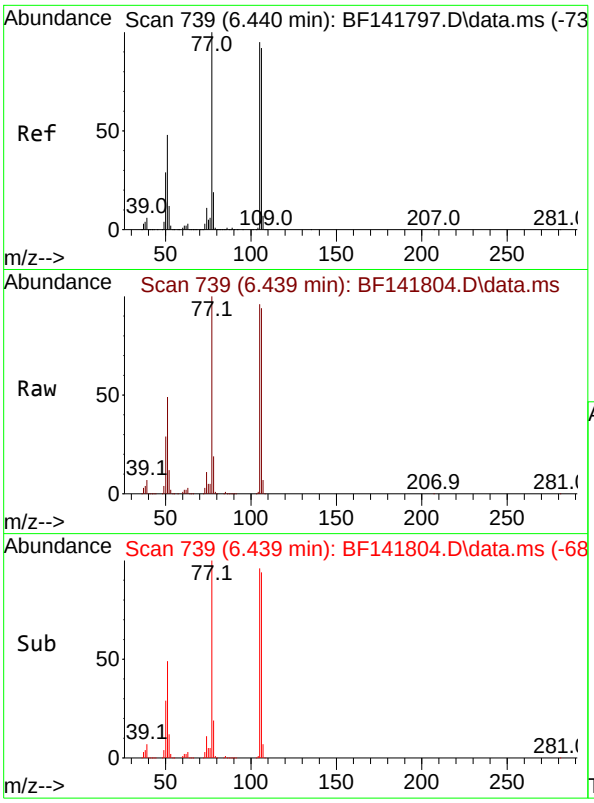


#8
2-Chlorophenol
Concen: 39.189 ng
RT: 6.675 min Scan# 779
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:128 Resp: 817490

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.6	52.6
64	49.2	31.1	71.1



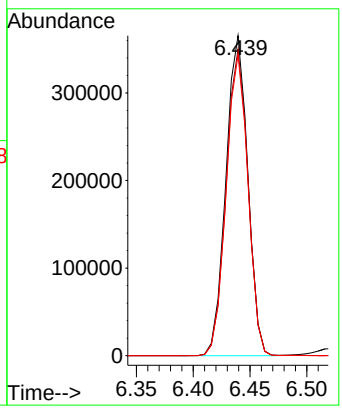


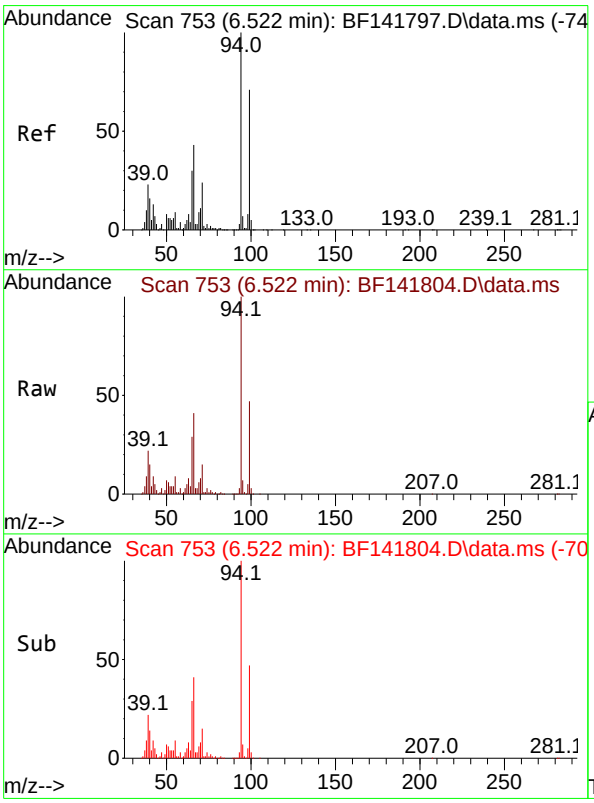
#9
Benzaldehyde
Concen: 33.517 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 489328

Ion	Ratio	Lower	Upper
77	100		
105	95.8	75.3	115.3
106	94.0	72.3	112.3

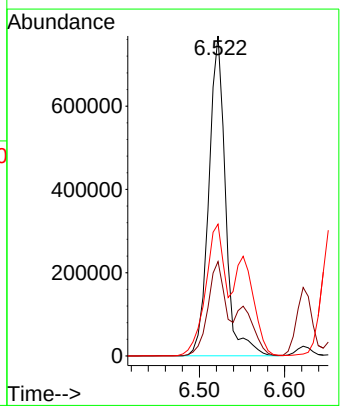


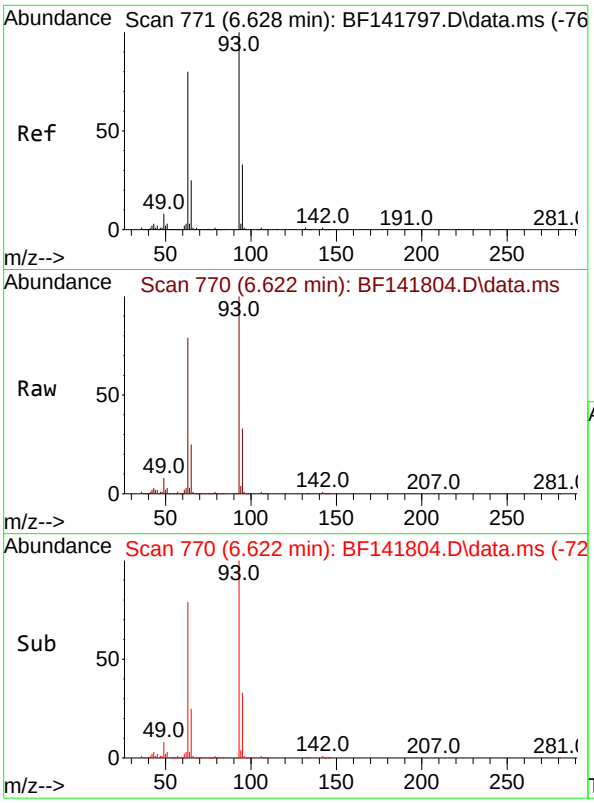


#10
Phenol
Concen: 39.128 ng
RT: 6.522 min Scan# 753
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 94 Resp: 1049418

Ion	Ratio	Lower	Upper
94	100		
65	29.5	10.2	50.2
66	41.2	23.2	63.2



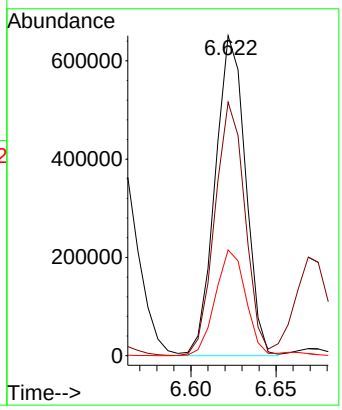


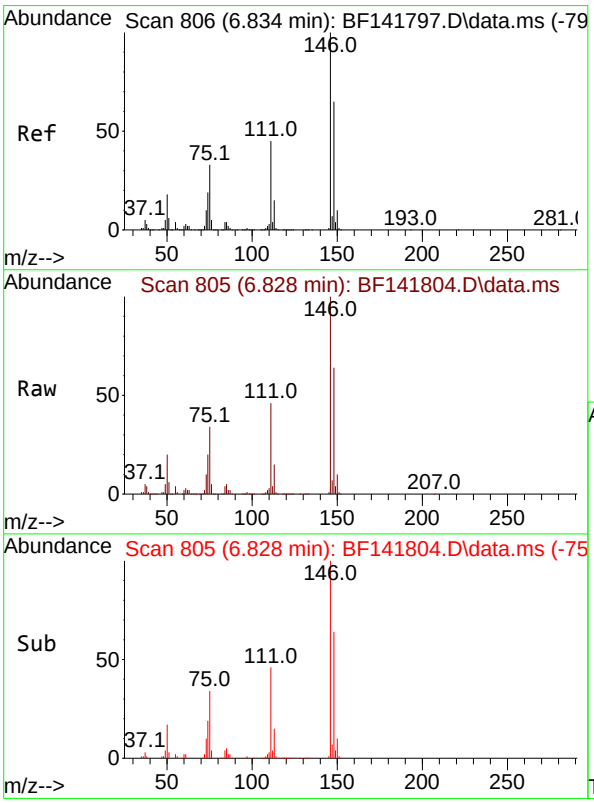
#11
bis(2-Chloroethyl)ether
Concen: 39.416 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 805828

Ion	Ratio	Lower	Upper
93	100		
63	79.2	59.3	99.3
95	33.1	13.2	53.2

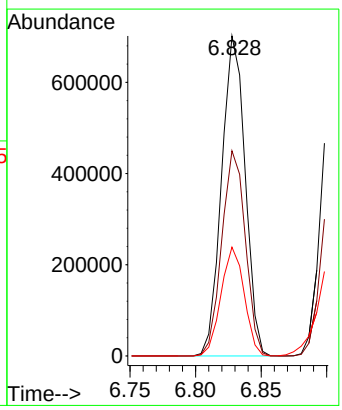


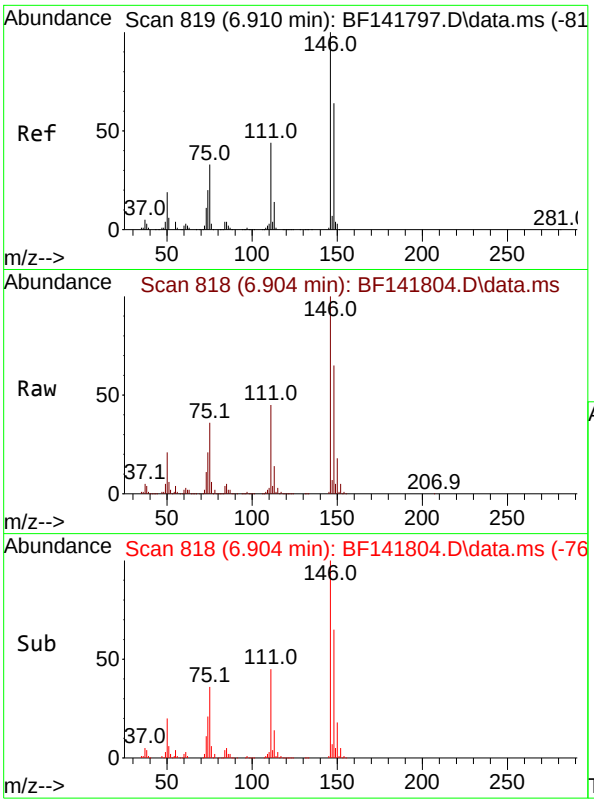


#12
1,3-Dichlorobenzene
Concen: 39.269 ng
RT: 6.828 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:146 Resp: 877251

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.8	77.6
75	34.0	26.2	39.4



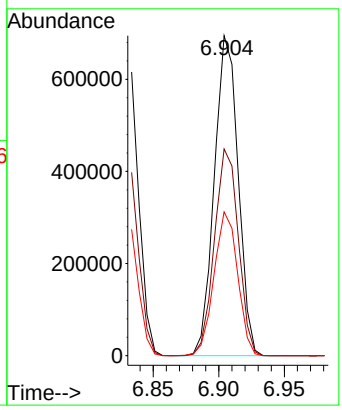


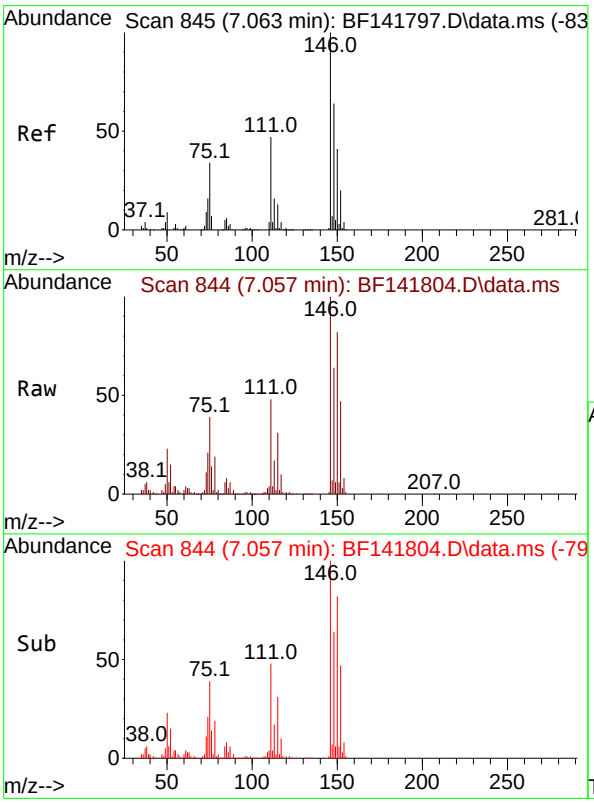
#13
1,4-Dichlorobenzene
Concen: 38.910 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 875829

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.2
111	45.0	35.5	53.3

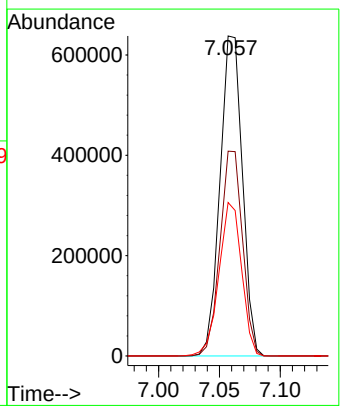


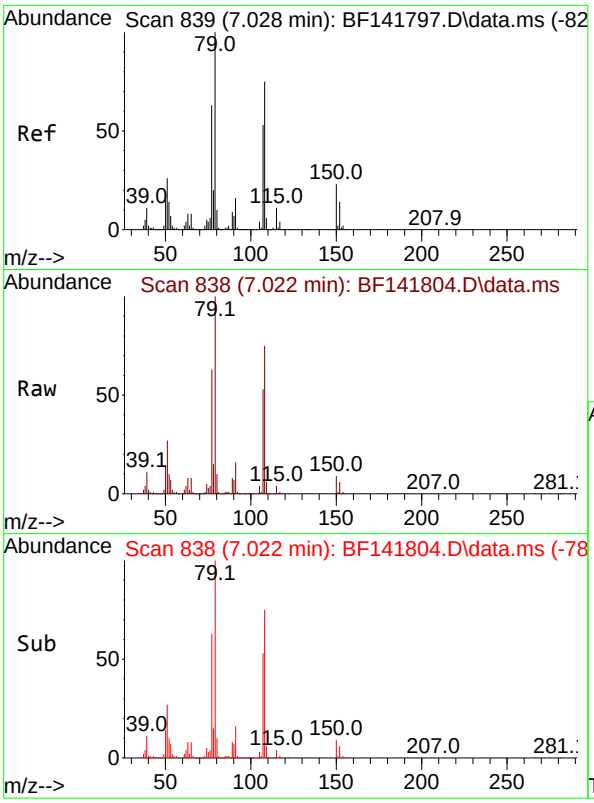


#14
1,2-Dichlorobenzene
Concen: 38.926 ng
RT: 7.057 min Scan# 844
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:146 Resp: 818172

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	48.0	37.8	56.6



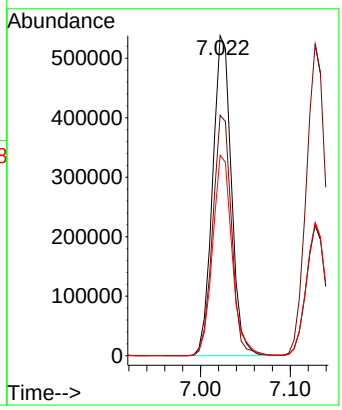


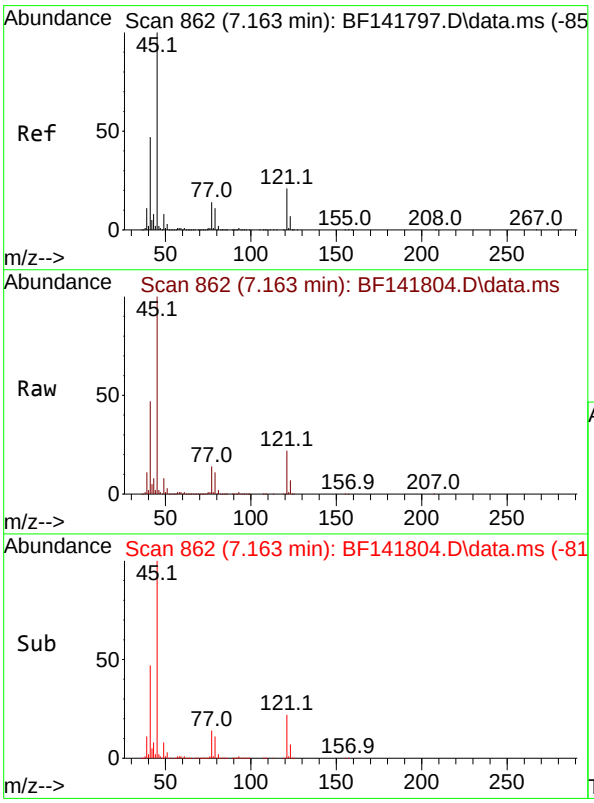
#15
Benzyl Alcohol
Concen: 39.022 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 782748

Ion	Ratio	Lower	Upper
79	100		
108	75.1	60.2	90.2
77	62.6	50.2	75.2

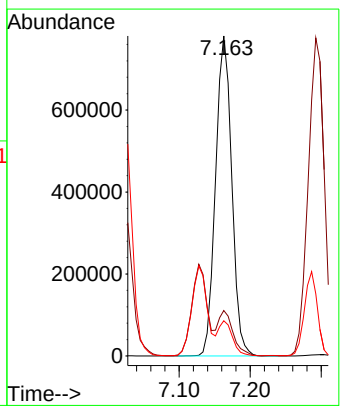


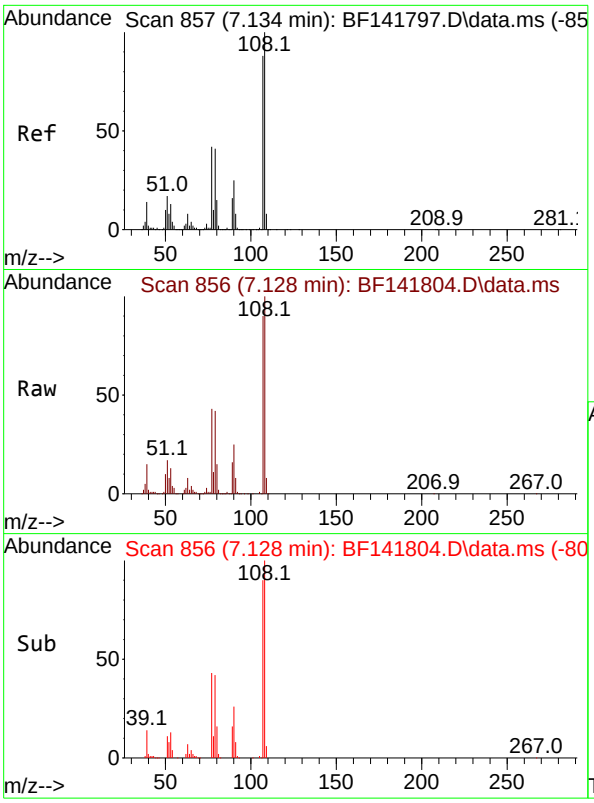


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.627 ng
RT: 7.163 min Scan# 862
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 45 Resp: 1230348

Ion	Ratio	Lower	Upper
45	100		
77	14.2	0.0	34.4
79	11.0	0.0	30.9



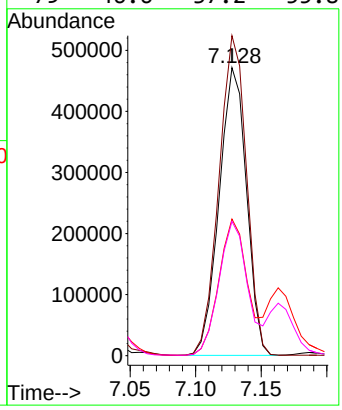


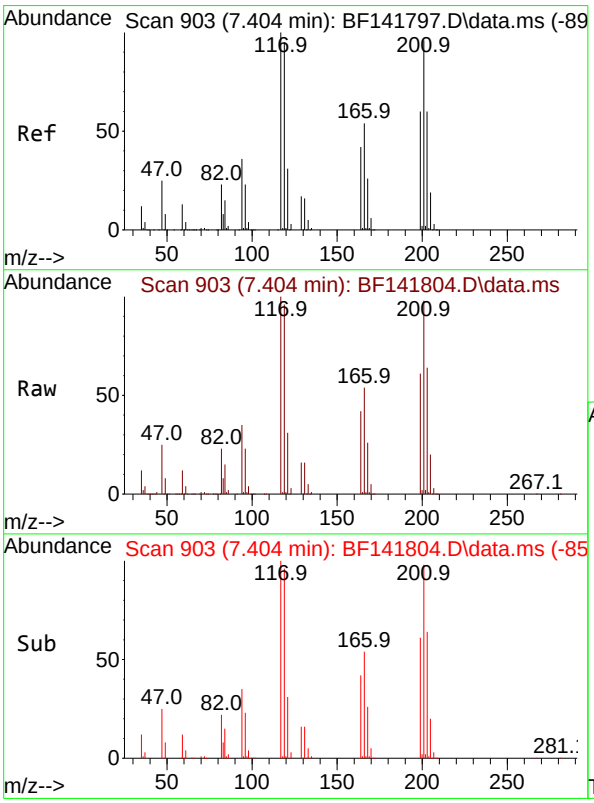
#17
2-Methylphenol
Concen: 39.682 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 683265

Ion	Ratio	Lower	Upper
107	100		
108	111.1	90.6	135.8
77	47.4	37.7	56.5
79	46.6	37.2	55.8

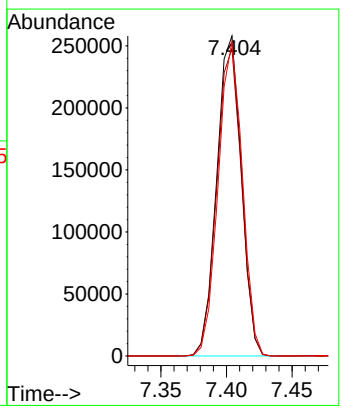


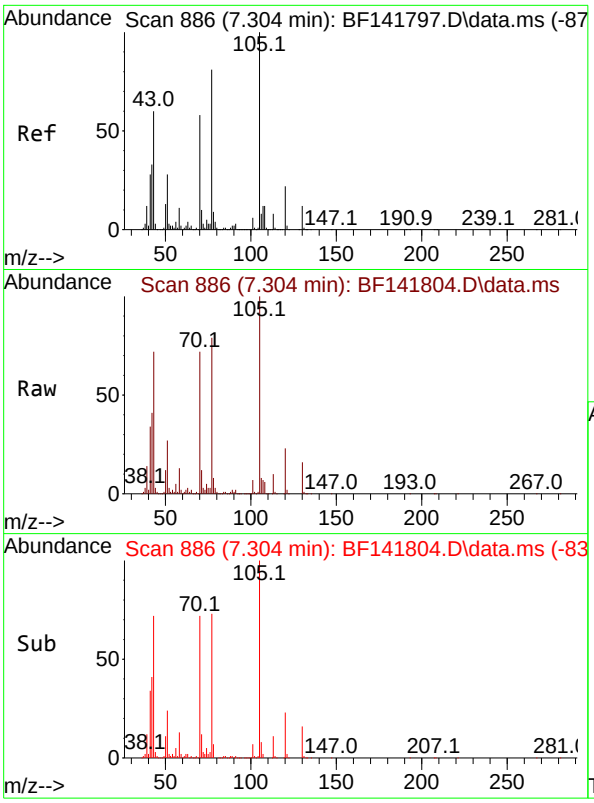


#18
Hexachloroethane
Concen: 40.023 ng
RT: 7.404 min Scan# 903
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:117 Resp: 337185

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.8	113.8
201	98.2	76.7	115.1



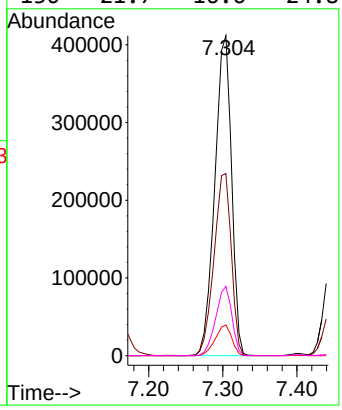


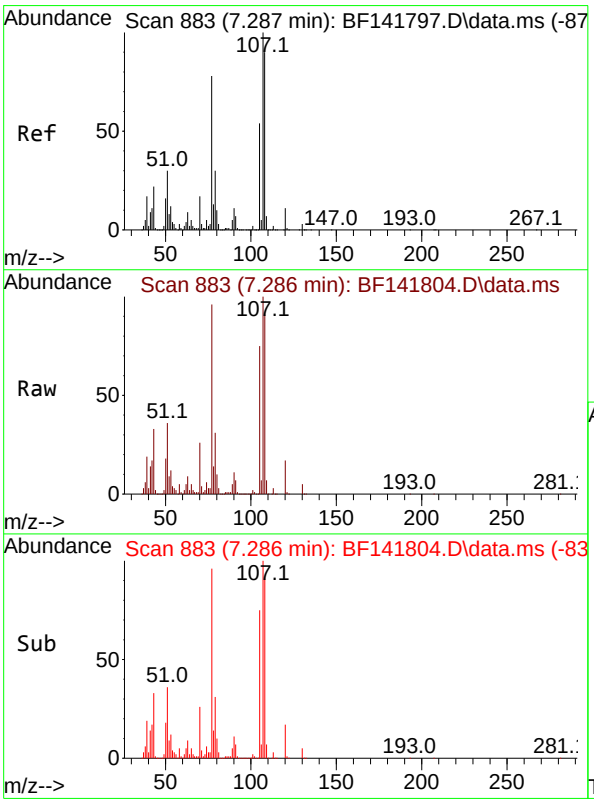
#19
n-Nitroso-di-n-propylamine
Concen: 39.110 ng
RT: 7.304 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 645284

Ion	Ratio	Lower	Upper
70	100		
42	56.9	45.4	68.0
101	9.6	7.8	11.8
130	21.7	16.6	24.8

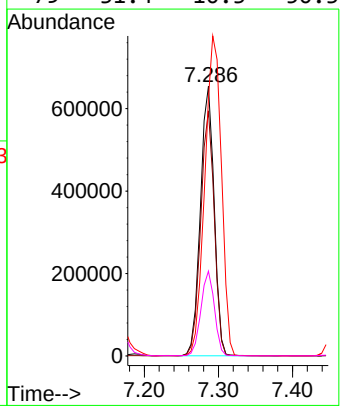


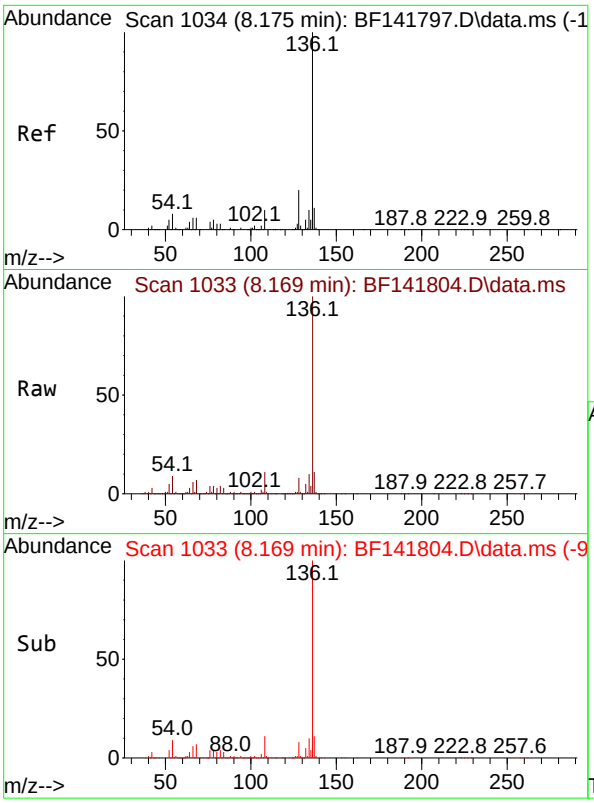


#20
3+4-Methylphenols
Concen: 39.253 ng
RT: 7.286 min Scan# 883
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:107 Resp: 841597

Ion	Ratio	Lower	Upper
107	100		
108	90.9	69.7	109.7
77	95.5	58.3	98.3
79	31.4	10.3	50.3



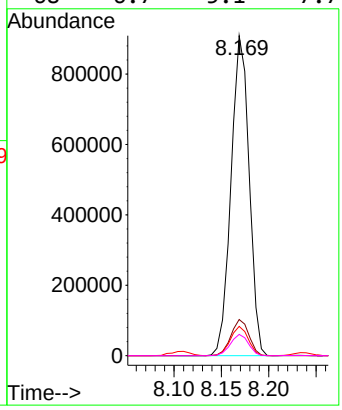


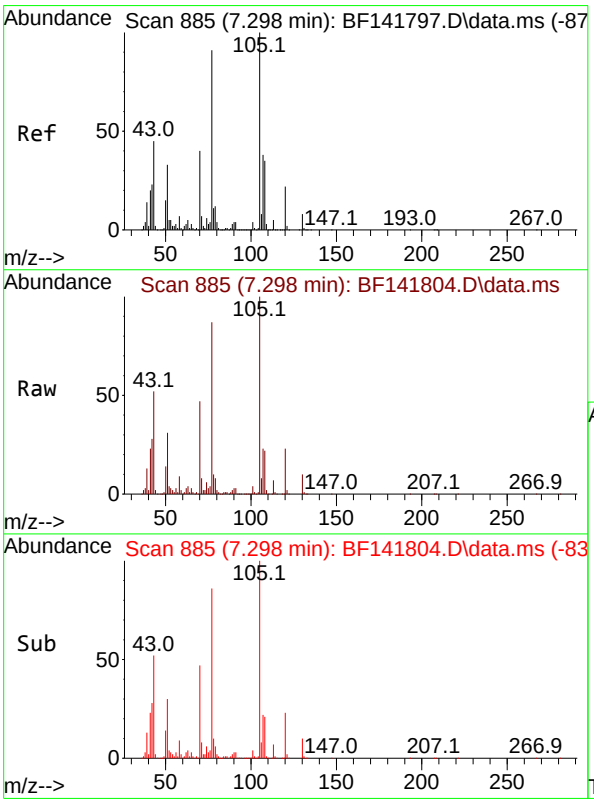
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 1208868

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	9.2	6.9	10.3
68	6.7	5.1	7.7

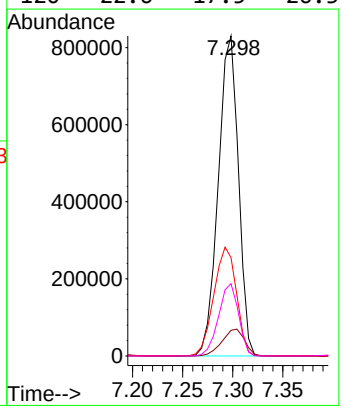


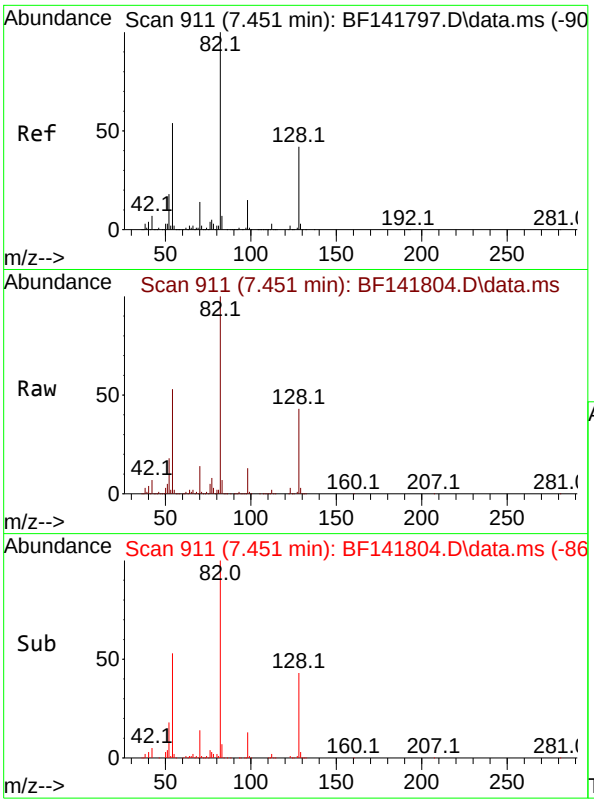


#22
Acetophenone
Concen: 39.363 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:105 Resp: 1158942

Ion	Ratio	Lower	Upper
105	100		
71	8.0	5.4	8.0
51	30.8	26.1	39.1
120	22.6	17.5	26.3



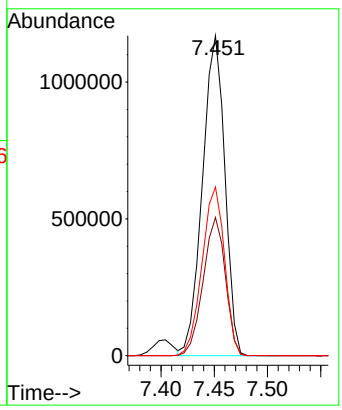


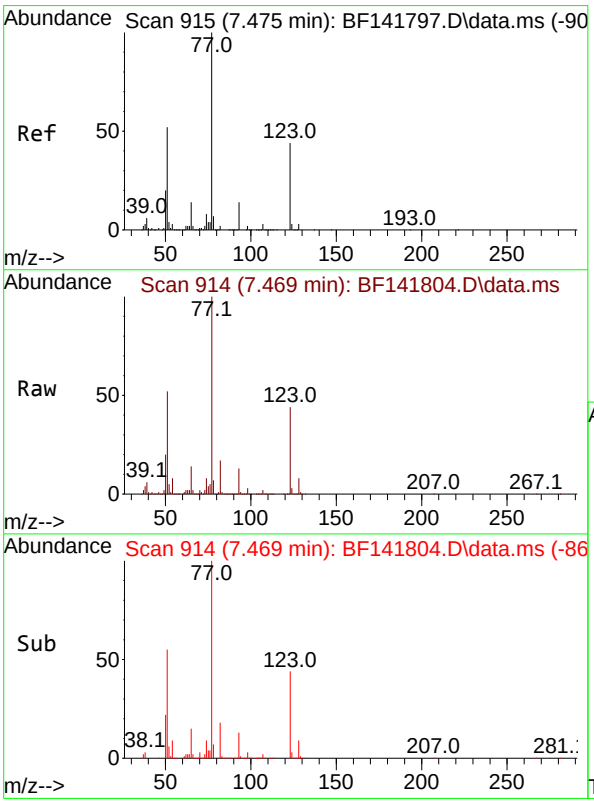
#23
Nitrobenzene-d5
Concen: 90.443 ng
RT: 7.451 min Scan# 91
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1710466

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.5	50.3
54	52.7	42.7	64.1

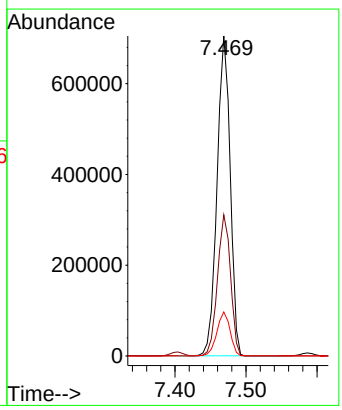


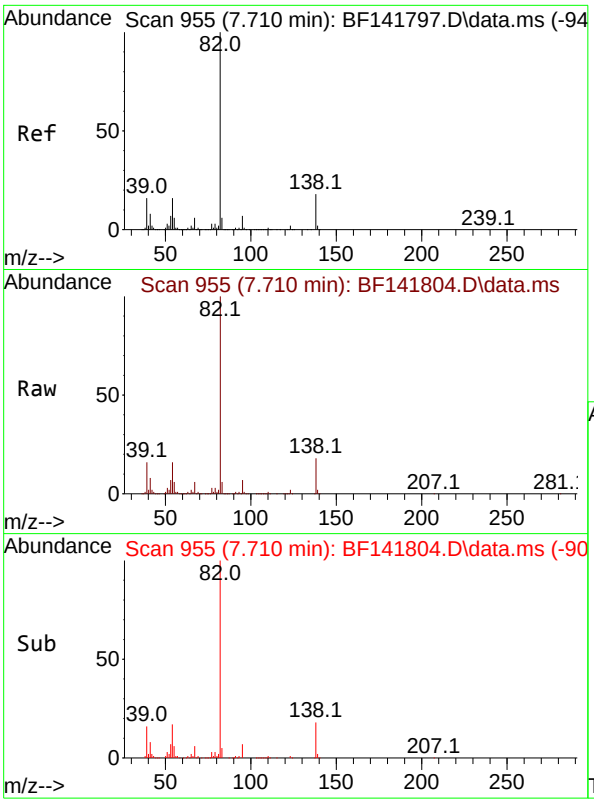


#24
Nitrobenzene
Concen: 44.470 ng
RT: 7.469 min Scan# 914
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 77 Resp: 900617

Ion	Ratio	Lower	Upper
77	100		
123	44.1	35.8	53.8
65	13.8	11.2	16.8



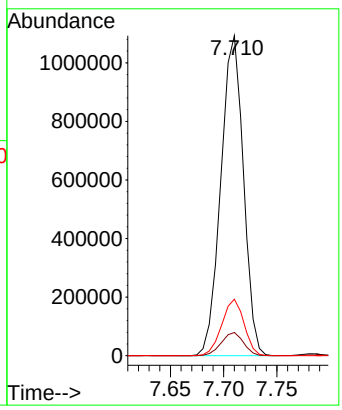


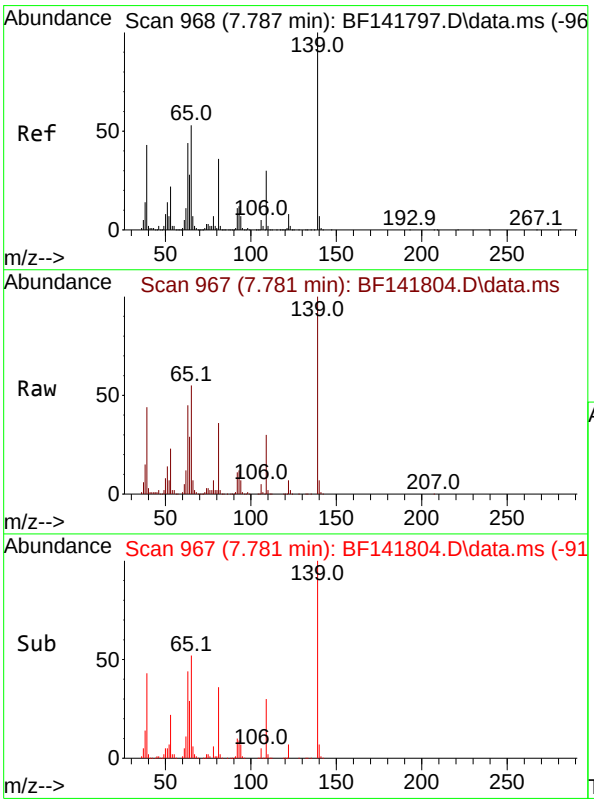
#25
Isophorone
Concen: 39.648 ng
RT: 7.710 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 1610906

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.8
138	17.7	14.0	21.0

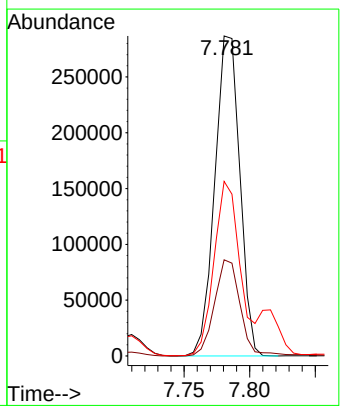


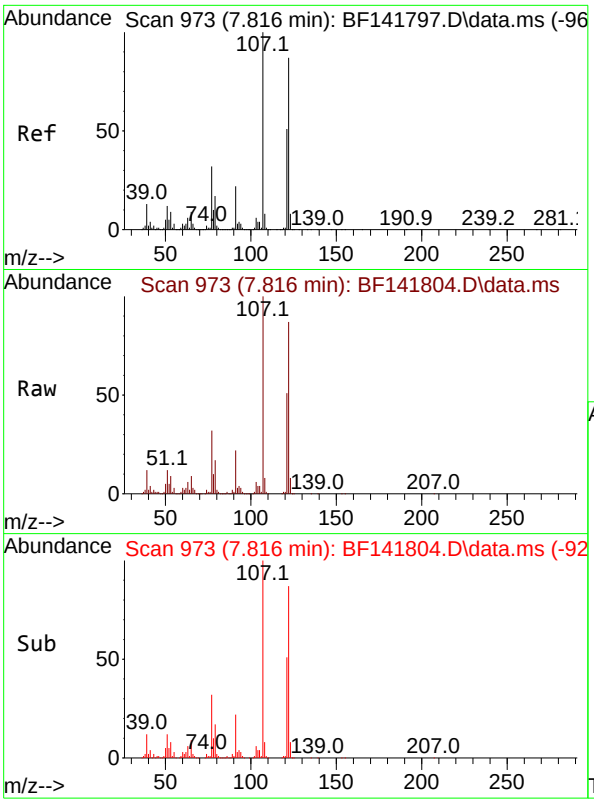


#26
2-Nitrophenol
Concen: 42.651 ng
RT: 7.781 min Scan# 967
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:139 Resp: 380793

Ion	Ratio	Lower	Upper
139	100		
109	30.1	24.1	36.1
65	54.6	42.3	63.5



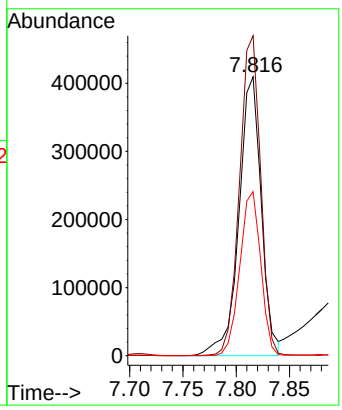


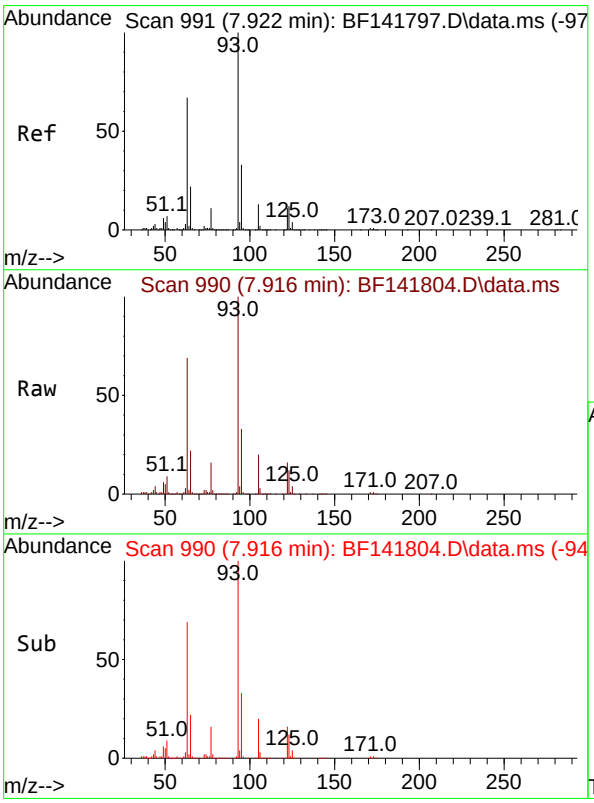
#27
2,4-Dimethylphenol
Concen: 40.154 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 599708

Ion	Ratio	Lower	Upper
122	100		
107	114.7	92.5	138.7
121	58.8	47.1	70.7

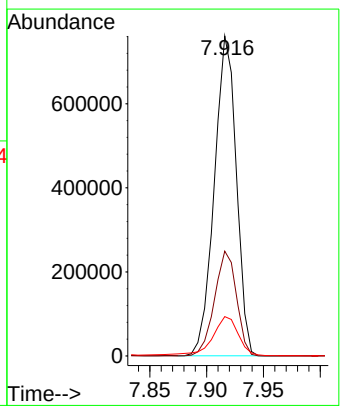


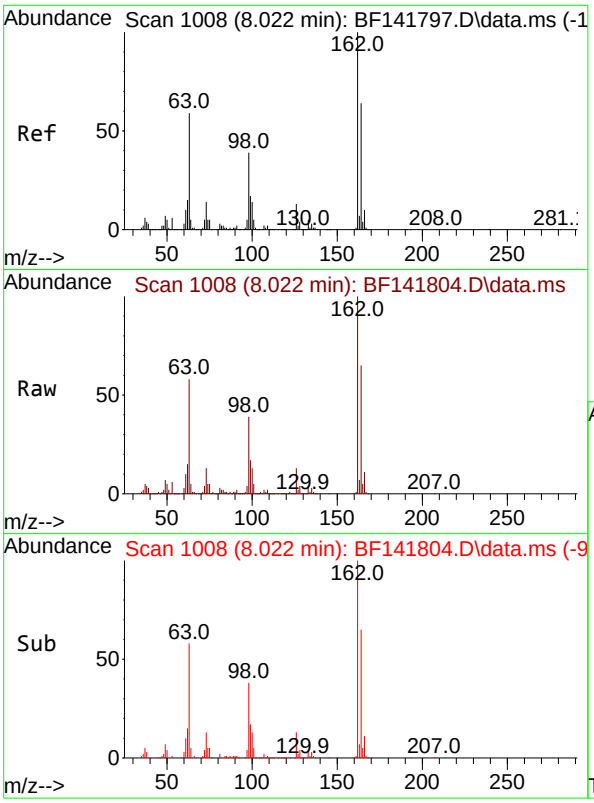


#28
bis(2-Chloroethoxy)methane
Concen: 39.593 ng
RT: 7.916 min Scan# 990
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 93 Resp: 1026184

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.5	39.7
123	12.3	10.0	15.0



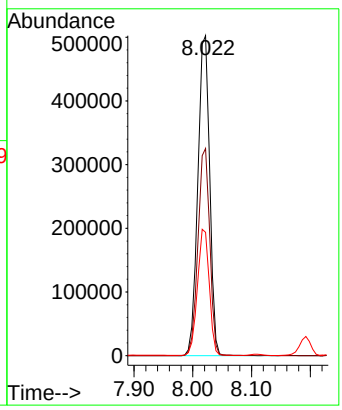


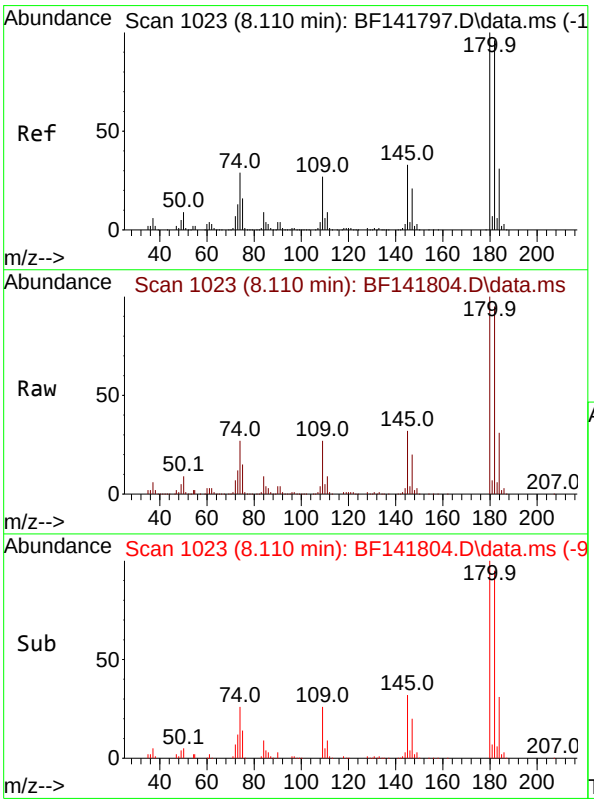
#29
2,4-Dichlorophenol
Concen: 40.822 ng
RT: 8.022 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 703360

Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.3	84.3
98	38.5	19.6	59.6

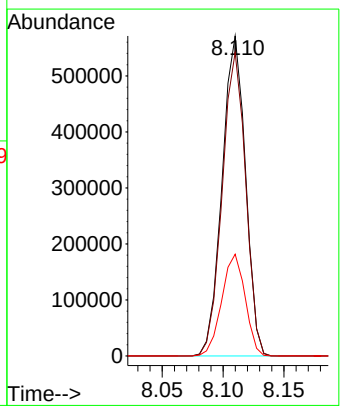


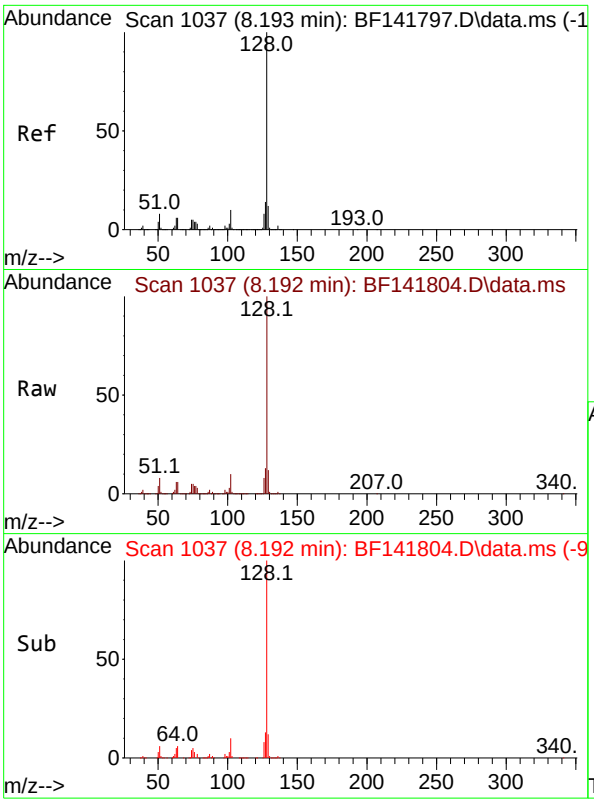


#30
1,2,4-Trichlorobenzene
Concen: 40.364 ng
RT: 8.110 min Scan# 1023
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:180 Resp: 762088

Ion	Ratio	Lower	Upper
180	100		
182	94.8	76.8	115.2
145	31.8	26.4	39.6



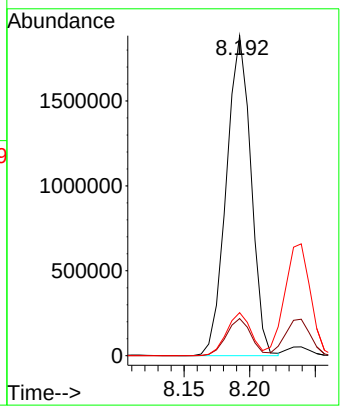


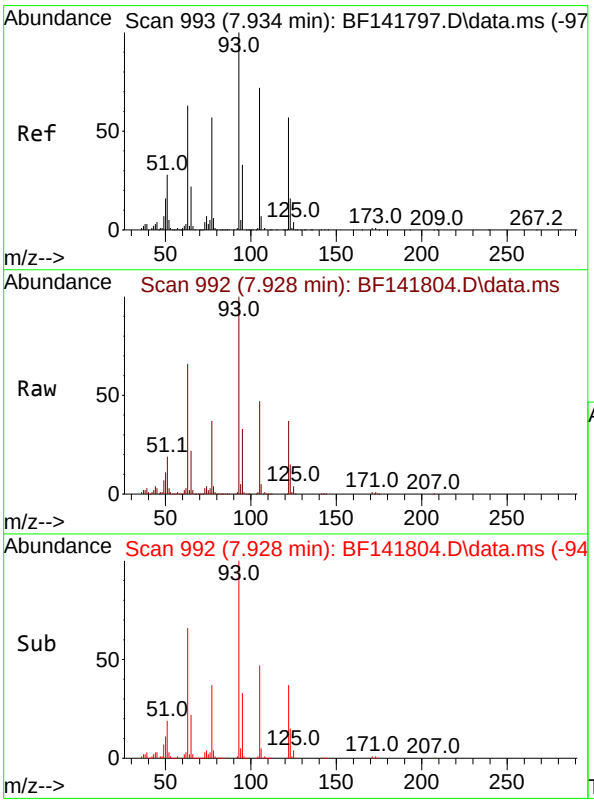
#31
Naphthalene
Concen: 39.585 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 2459447

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.2	13.8
127	13.4	11.0	16.4

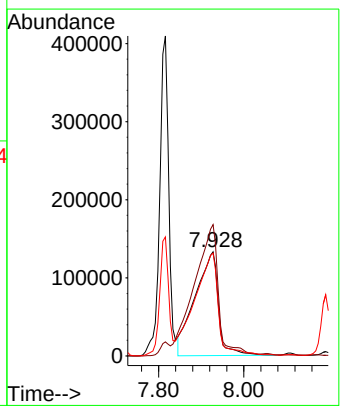


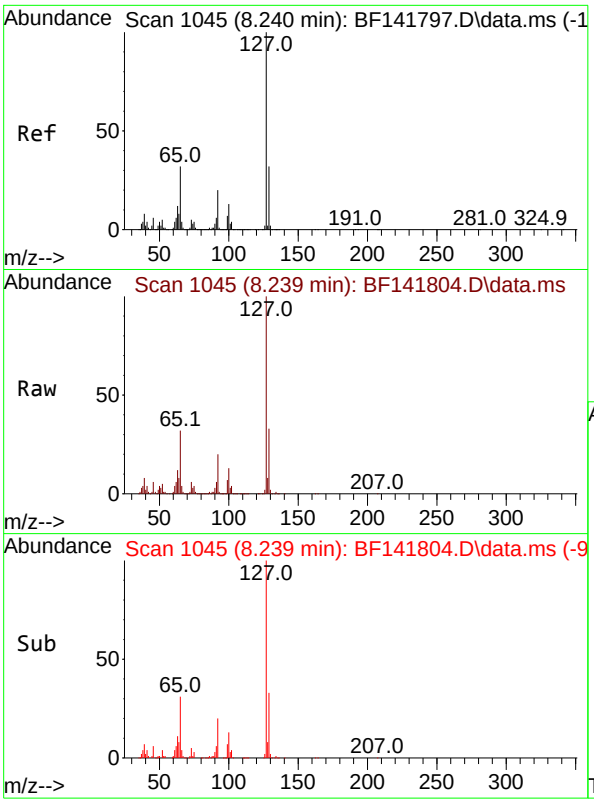


#32
Benzoic acid
Concen: 41.902 ng
RT: 7.928 min Scan# 992
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:122 Resp: 507824

Ion	Ratio	Lower	Upper
122	100		
105	126.0	105.8	145.8
77	98.7	79.9	119.9



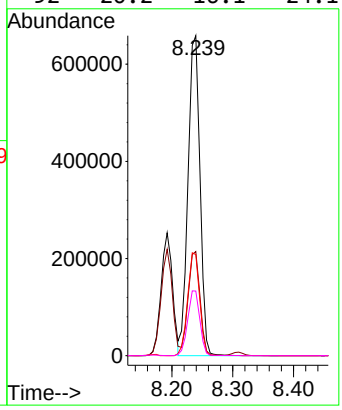


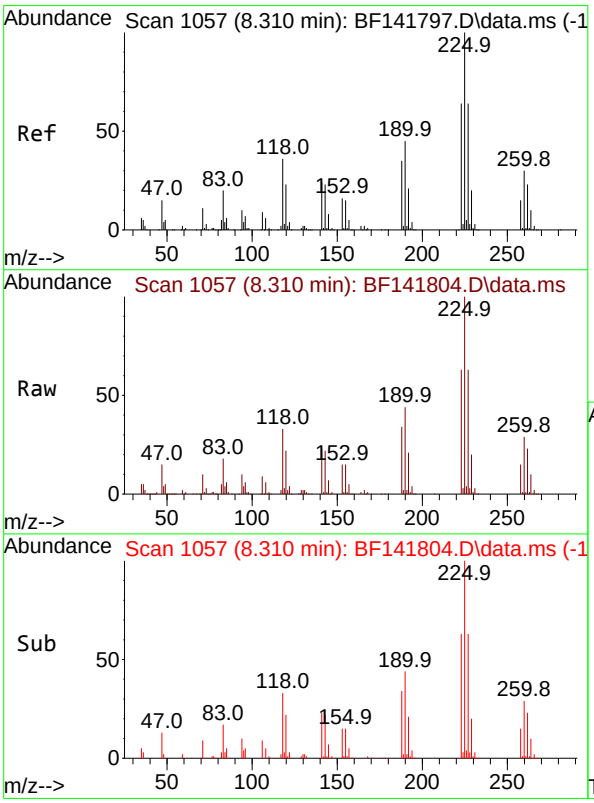
#33
4-Chloroaniline
Concen: 39.571 ng
RT: 8.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 901464

Ion	Ratio	Lower	Upper
127	100		
129	32.6	26.1	39.1
65	31.6	25.7	38.5
92	20.2	16.1	24.1

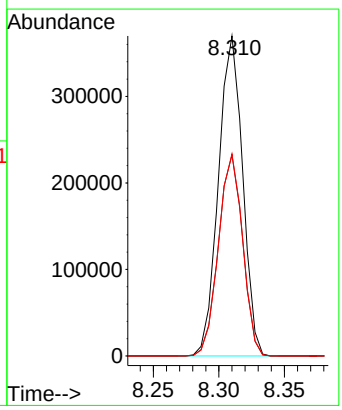


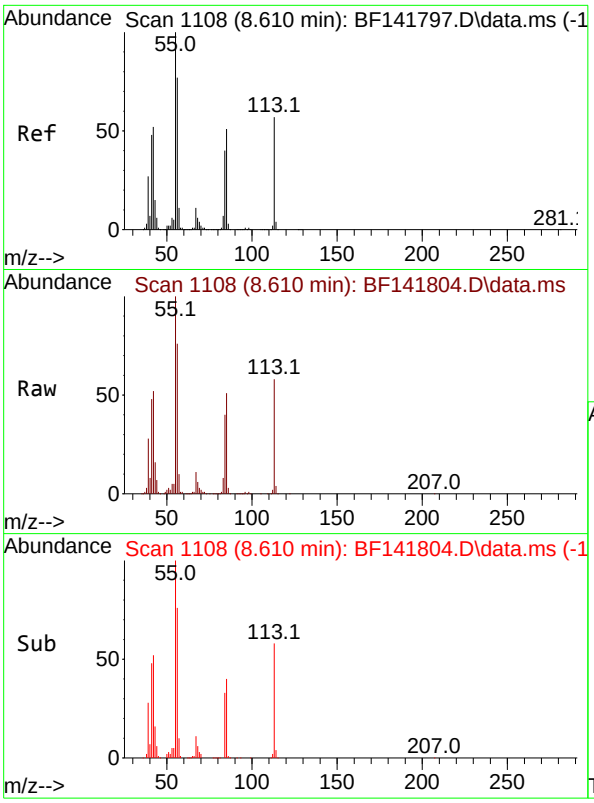


#34
Hexachlorobutadiene
Concen: 40.350 ng
RT: 8.310 min Scan# 1057
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:225 Resp: 473403

Ion	Ratio	Lower	Upper
225	100		
223	62.8	51.4	77.2
227	63.1	51.6	77.4



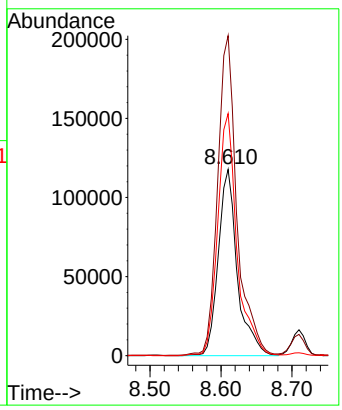


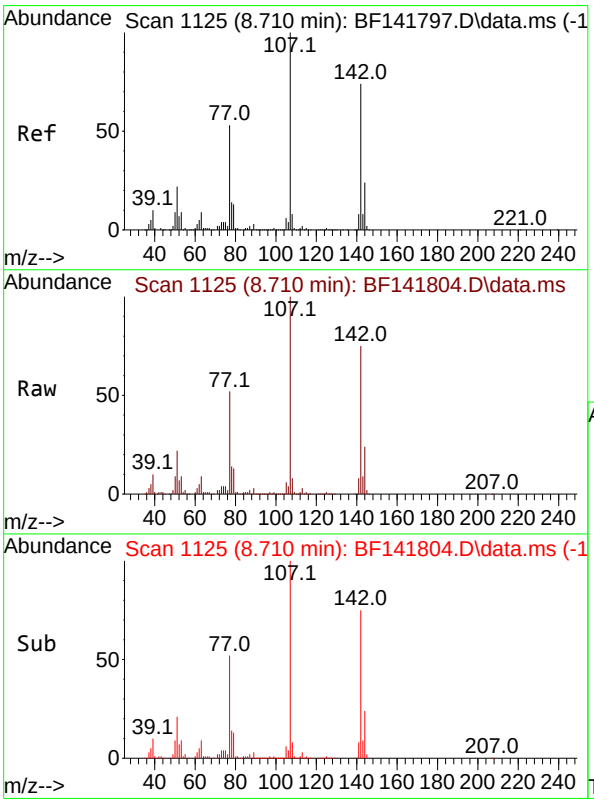
#35
Caprolactam
Concen: 41.275 ng
RT: 8.610 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 218776

Ion	Ratio	Lower	Upper
113	100		
55	171.8	155.6	195.6
56	129.9	114.6	154.6

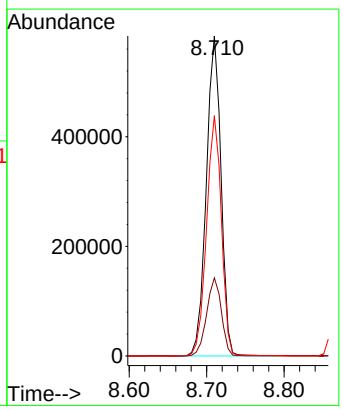


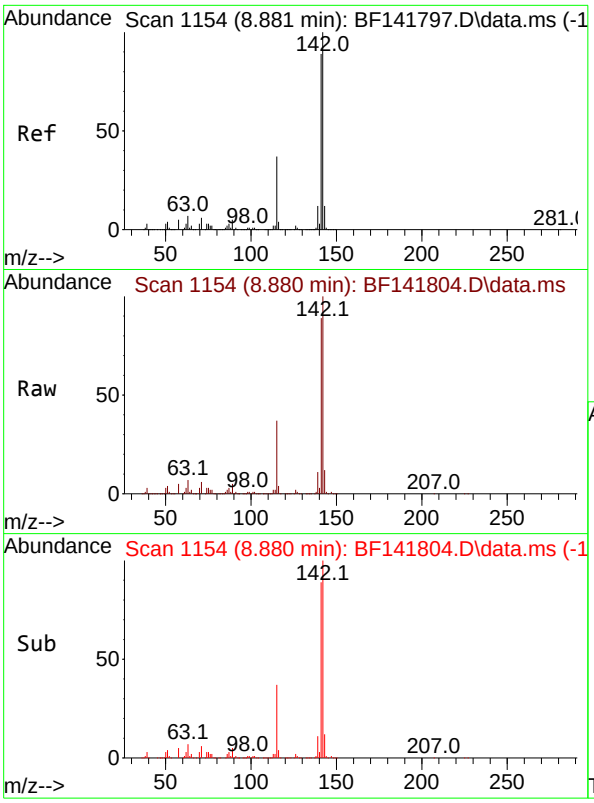


#36
4-Chloro-3-methylphenol
Concen: 40.219 ng
RT: 8.710 min Scan# 1125
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:107 Resp: 769804

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.4	29.0
142	75.1	59.4	89.0



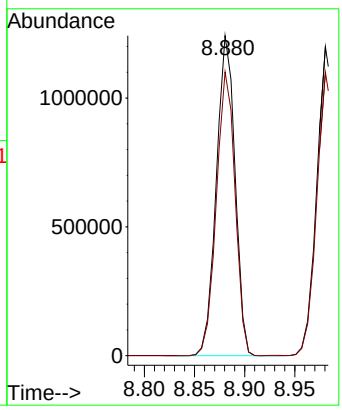


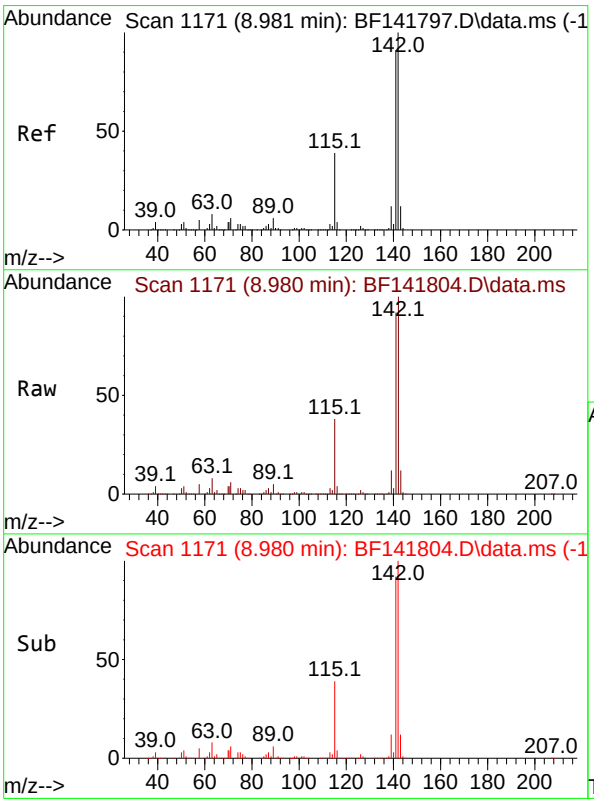
#37
2-Methylnaphthalene
Concen: 39.457 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 1607980

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.1	106.7

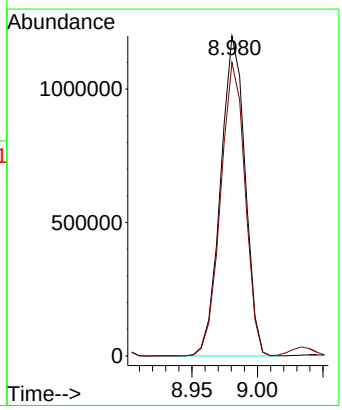


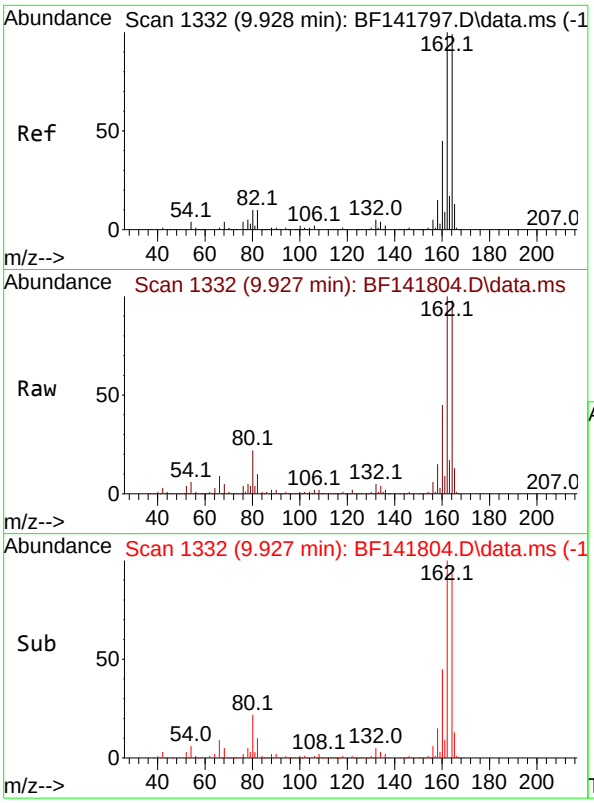


#38
1-Methylnaphthalene
Concen: 39.781 ng
RT: 8.980 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:142 Resp: 1555539

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.1	109.7



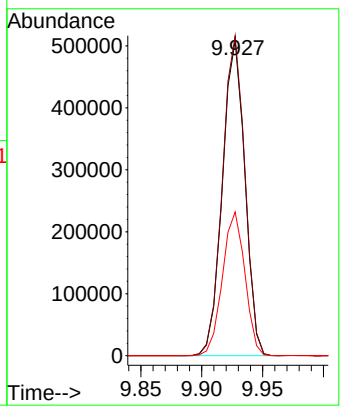


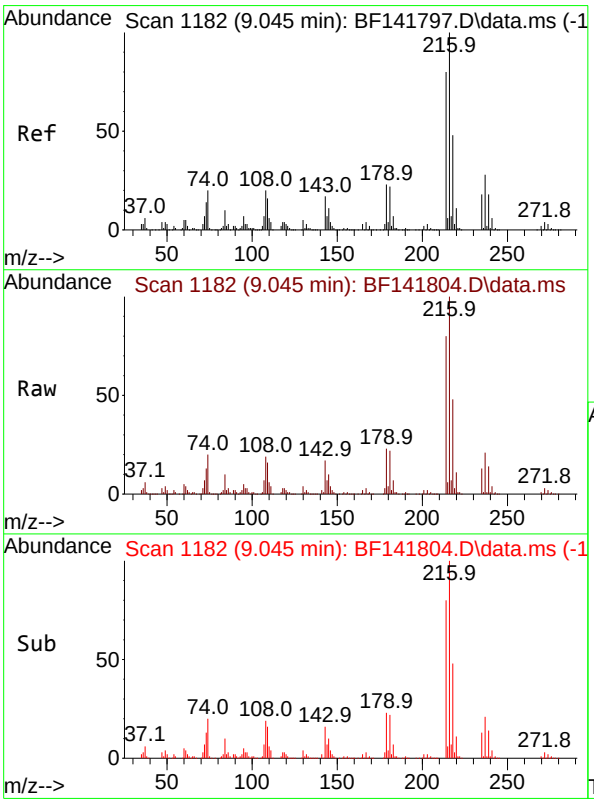
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 650148

Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.6	120.8
160	45.6	36.3	54.5

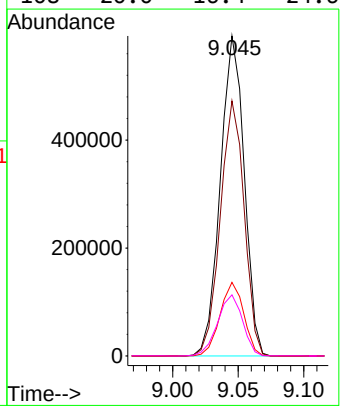


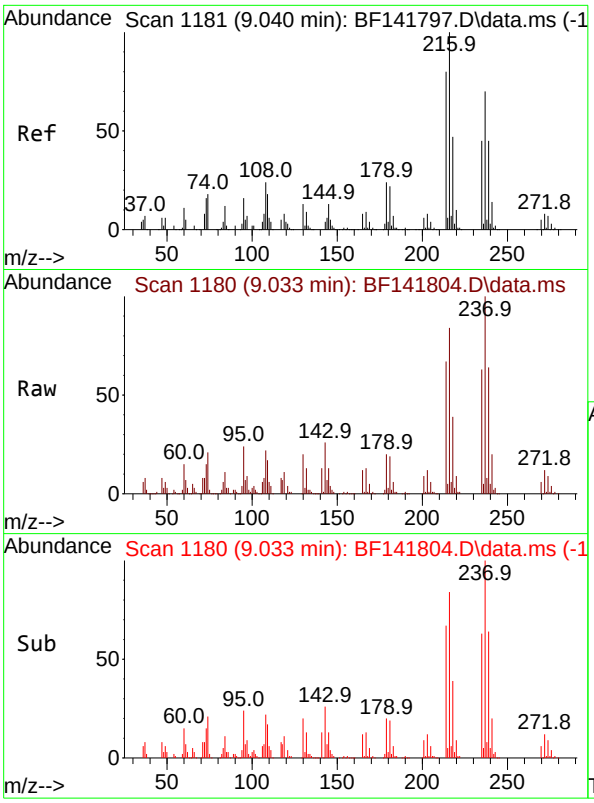


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.059 ng
RT: 9.045 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:216 Resp: 752182

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.5	95.3
179	22.8	18.1	27.1
108	20.0	16.4	24.6



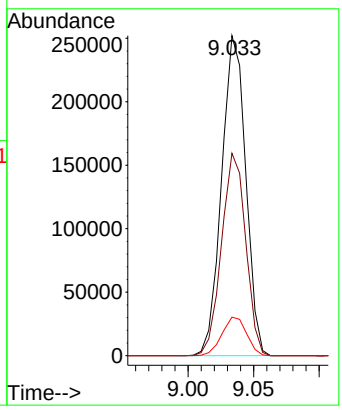


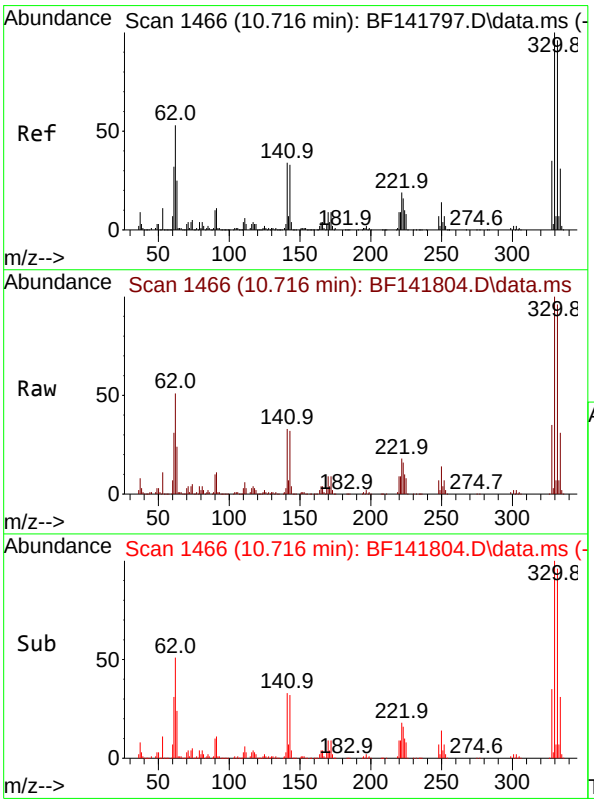
#41
Hexachlorocyclopentadiene
Concen: 41.144 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 322408

Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.3	83.3
272	12.0	0.0	31.9

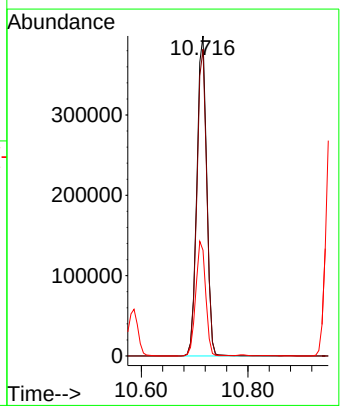


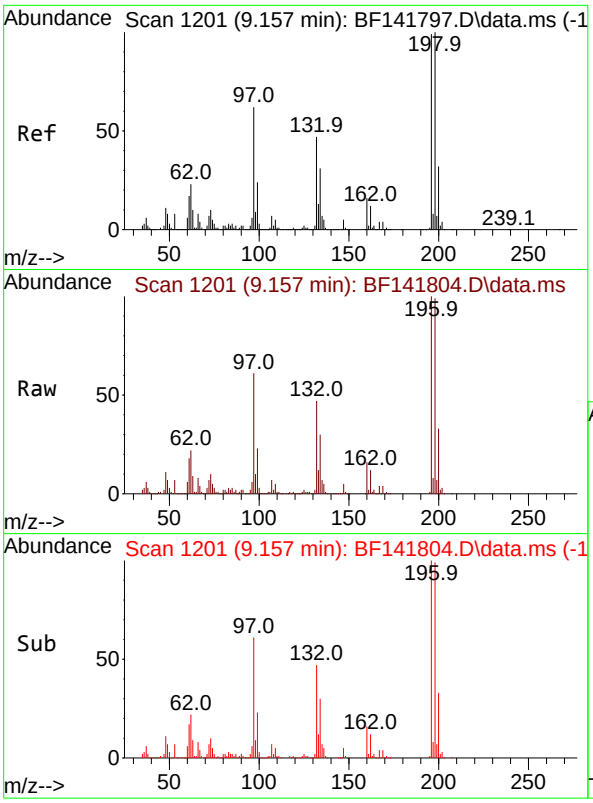


#42
2,4,6-Tribromophenol
Concen: 83.718 ng
RT: 10.716 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:330 Resp: 510988

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.6	115.0
141	36.2	29.0	43.4



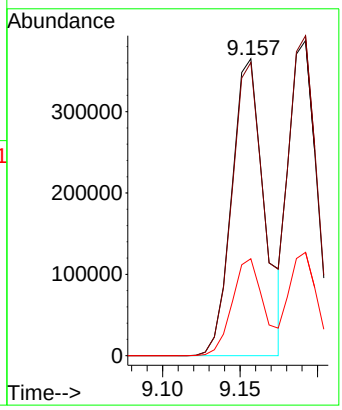


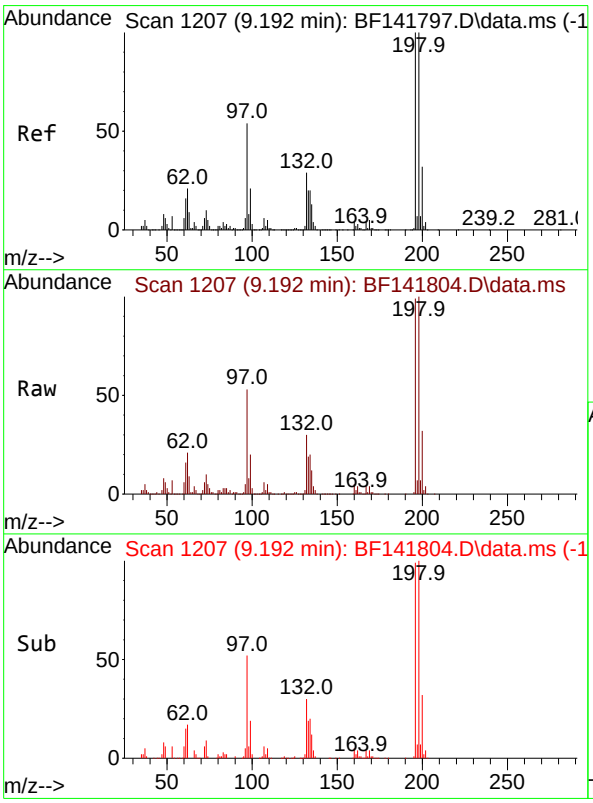
#43
2,4,6-Trichlorophenol
Concen: 43.726 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 530364

Ion	Ratio	Lower	Upper
196	100		
198	98.7	80.4	120.6
200	32.6	25.7	38.5

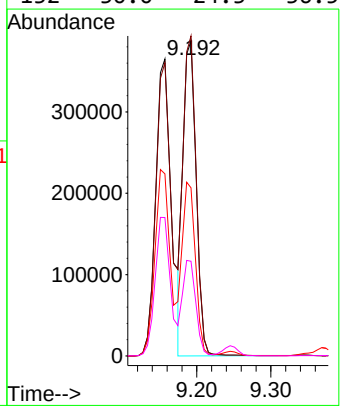


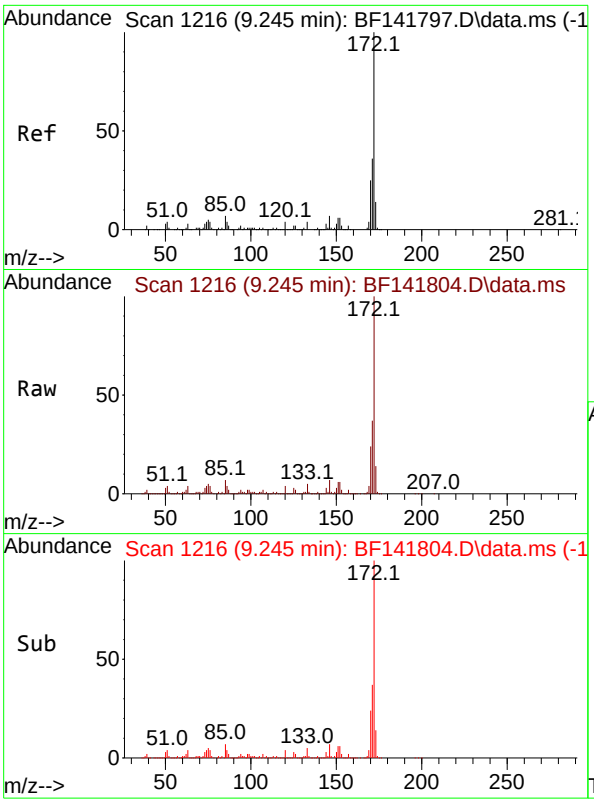


#44
2,4,5-Trichlorophenol
Concen: 40.130 ng
RT: 9.192 min Scan# 1207
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:196 Resp: 481985

Ion	Ratio	Lower	Upper
196	100		
198	101.5	79.7	119.5
97	53.3	44.2	66.2
132	30.0	24.3	36.5



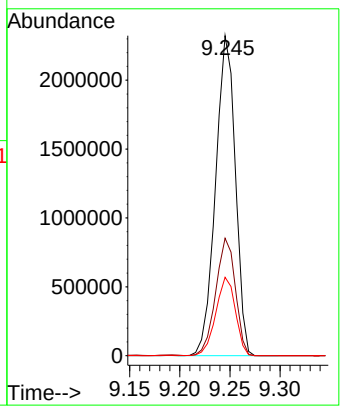


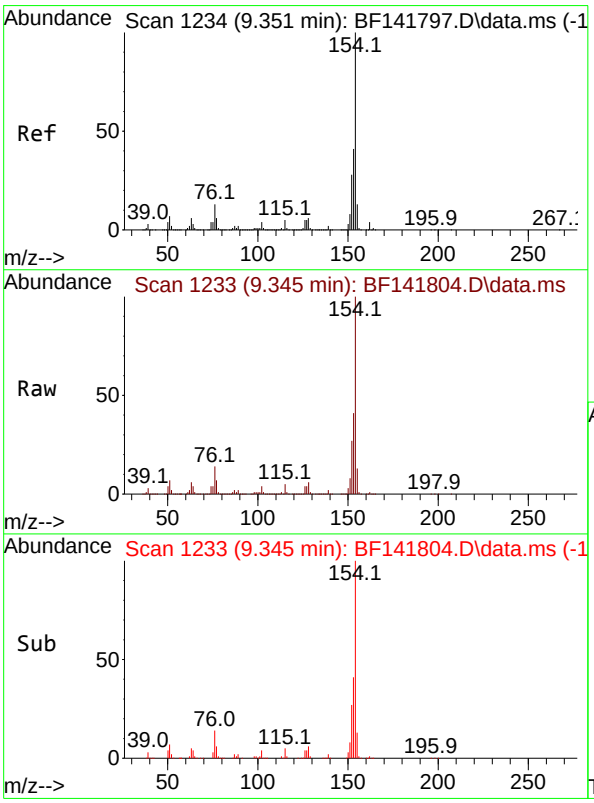
#45
2-Fluorobiphenyl
Concen: 78.599 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 3186940

Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.2	43.8
170	24.5	19.7	29.5

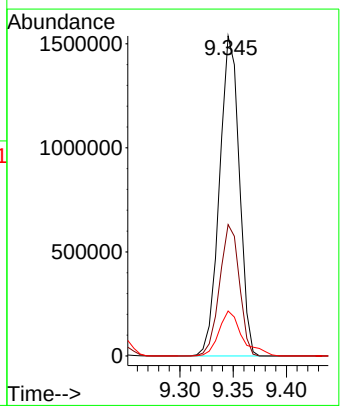


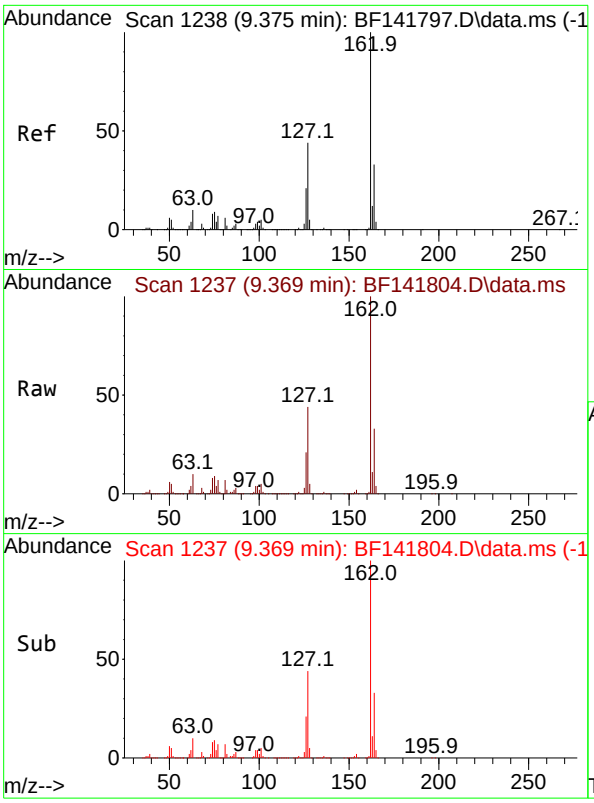


#46
1,1'-Biphenyl
Concen: 40.123 ng
RT: 9.345 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:154 Resp: 1985558

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.4	61.4
76	14.0	0.0	33.4



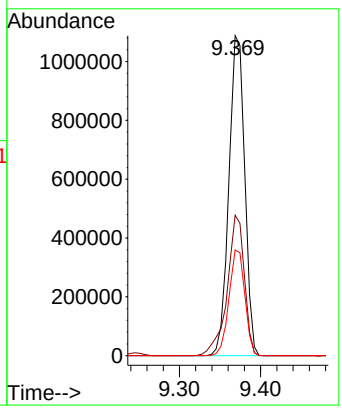


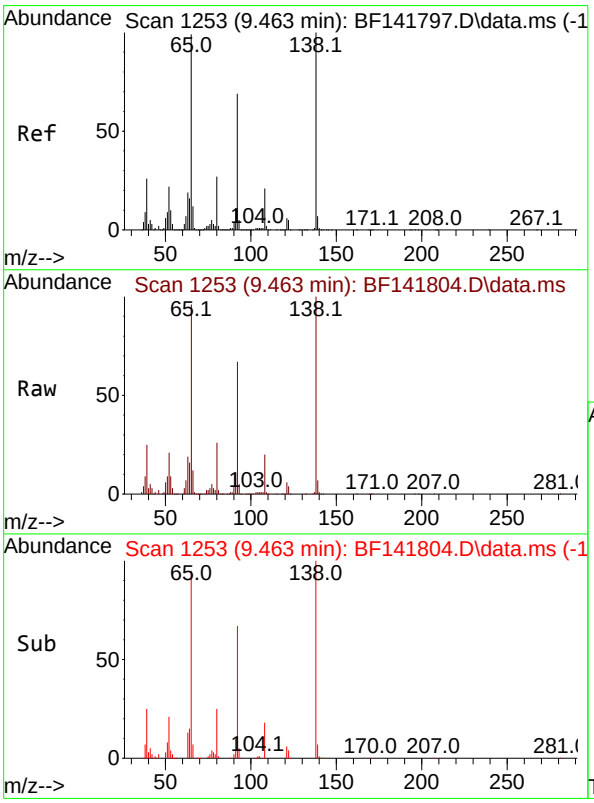
#47
2-Chloronaphthalene
Concen: 40.391 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 1475274

Ion	Ratio	Lower	Upper
162	100		
127	43.9	35.0	52.6
164	33.0	26.6	40.0

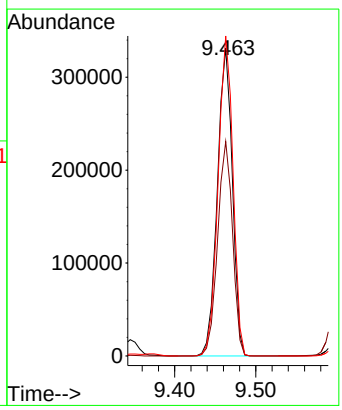


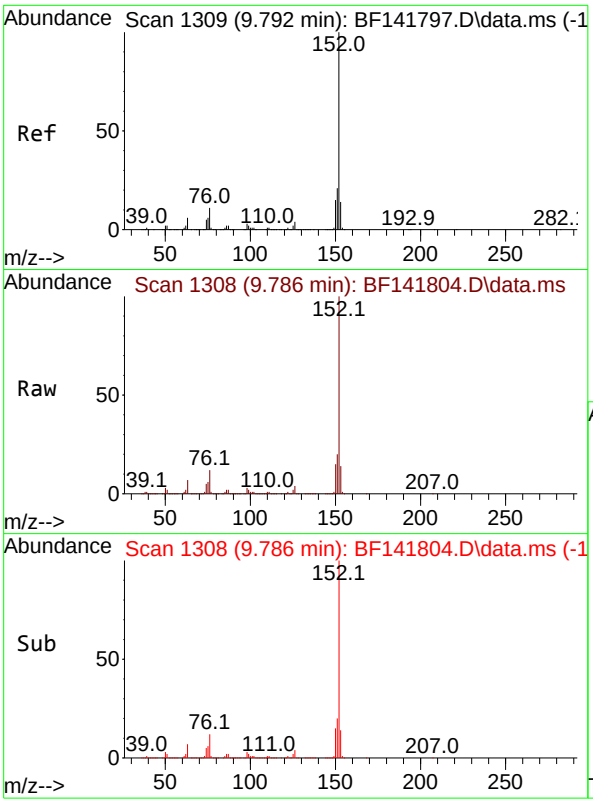


#48
2-Nitroaniline
Concen: 43.230 ng
RT: 9.463 min Scan# 1253
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion: 65 Resp: 427470

Ion	Ratio	Lower	Upper
65	100		
92	69.6	55.7	83.5
138	103.9	80.6	121.0



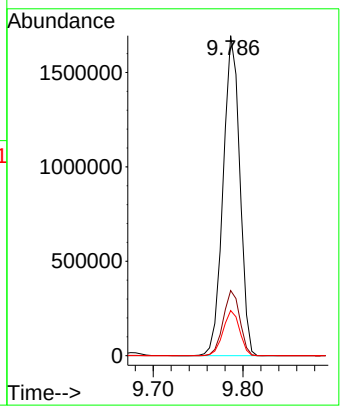


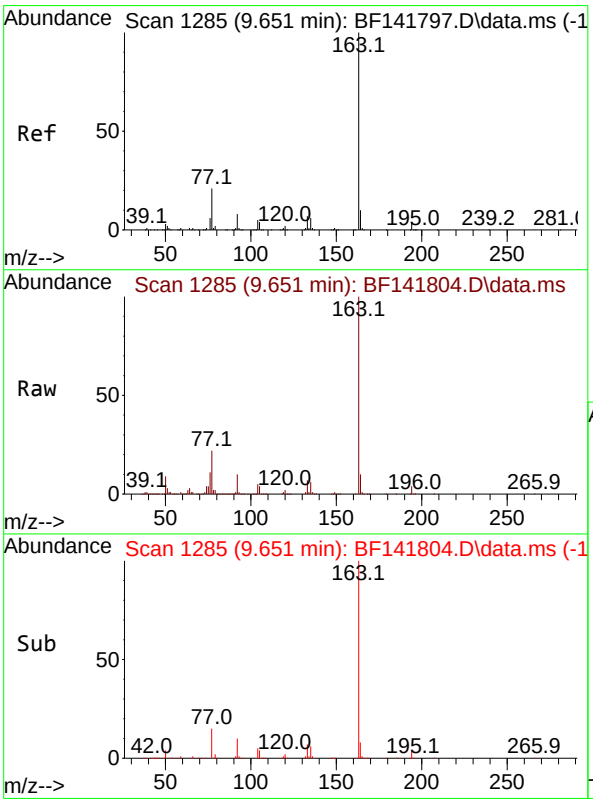
#49
Acenaphthylene
Concen: 39.968 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 2188712

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.6	24.8
153	14.1	11.2	16.8

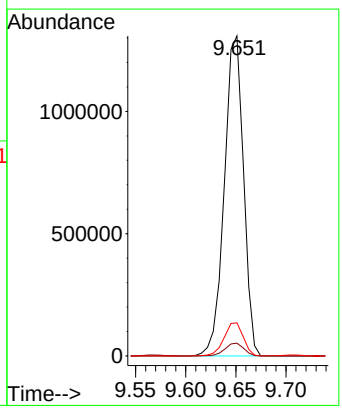


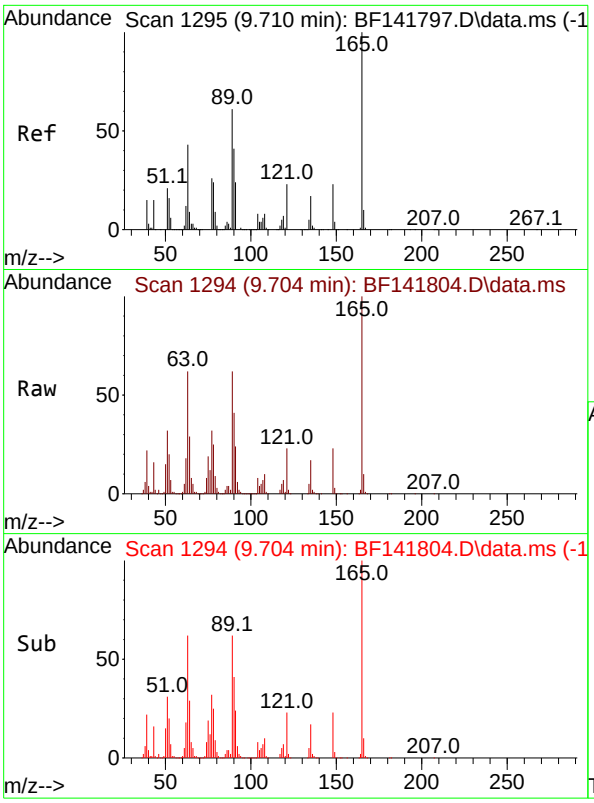


#50
Dimethylphthalate
Concen: 39.964 ng
RT: 9.651 min Scan# 1285
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:163 Resp: 1739977

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.1	4.7
164	10.3	8.4	12.6



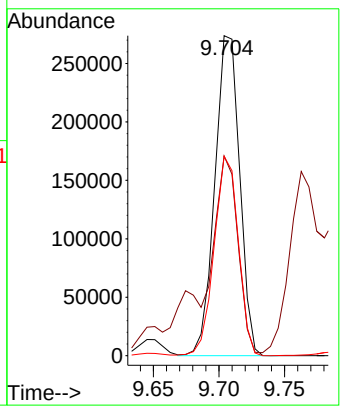


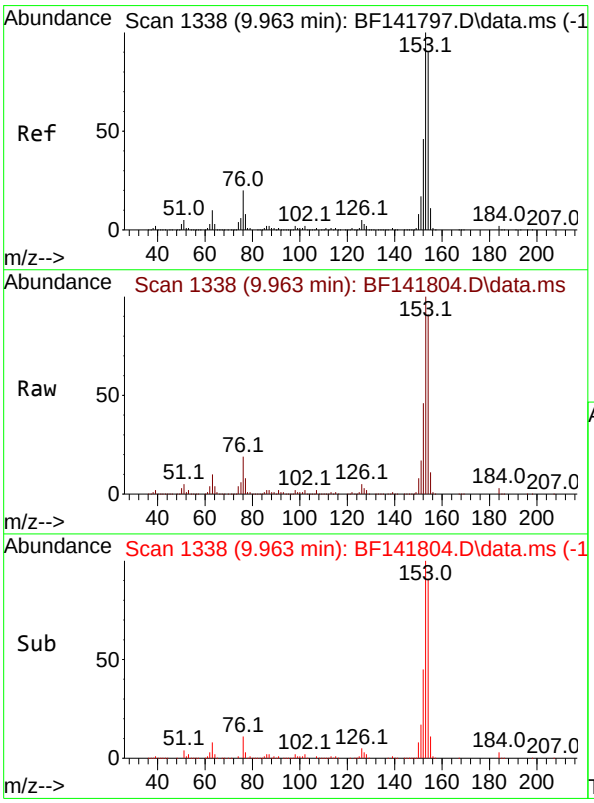
#51
2,6-Dinitrotoluene
Concen: 43.567 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 360558

Ion	Ratio	Lower	Upper
165	100		
63	62.4	49.5	74.3
89	62.3	49.0	73.4

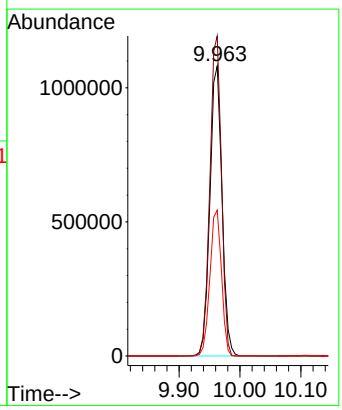


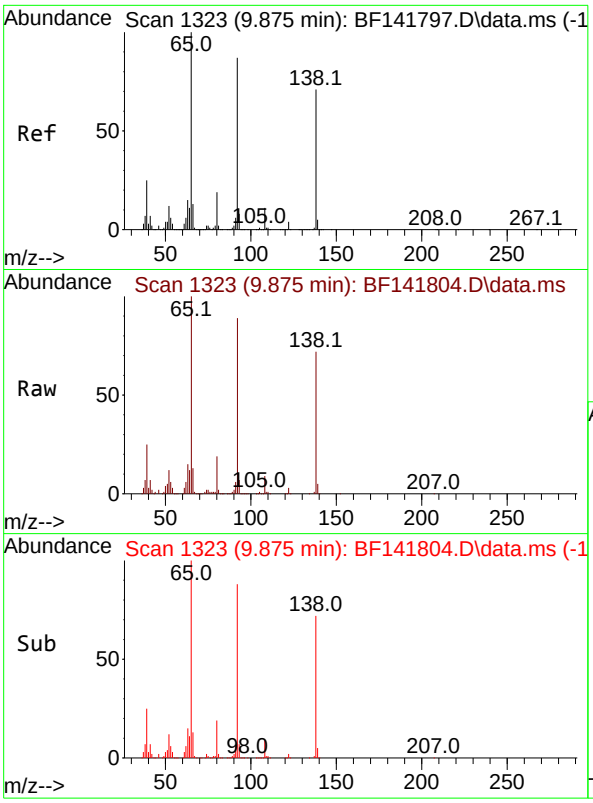


#52
Acenaphthene
Concen: 40.342 ng
RT: 9.963 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:154 Resp: 1490686

Ion	Ratio	Lower	Upper
154	100		
153	110.3	88.7	133.1
152	50.3	40.9	61.3



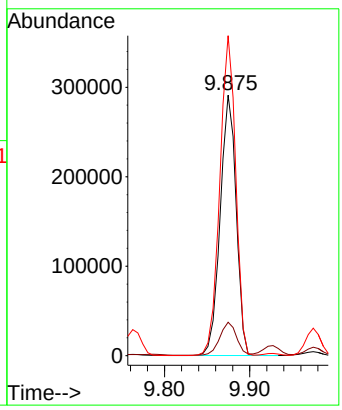


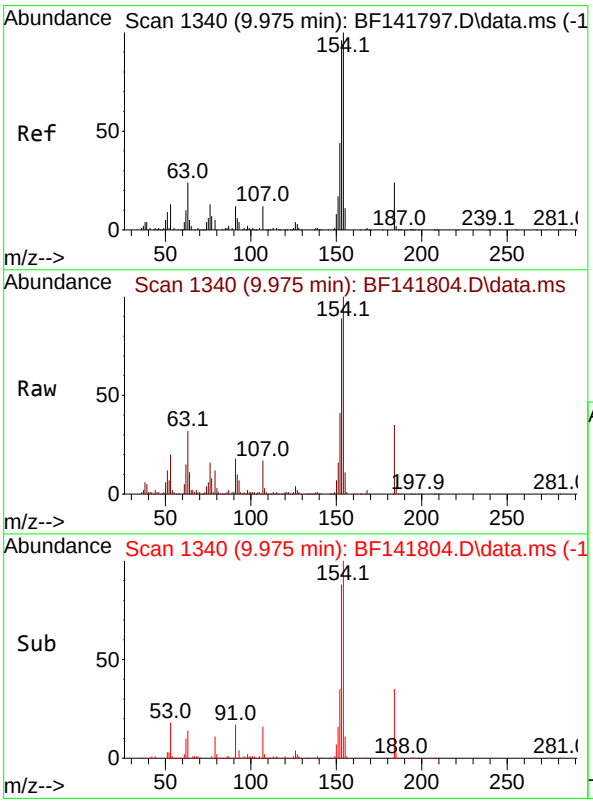
#53
3-Nitroaniline
Concen: 42.961 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 378205

Ion	Ratio	Lower	Upper
138	100		
108	12.8	12.7	19.1
92	122.8	97.9	146.9

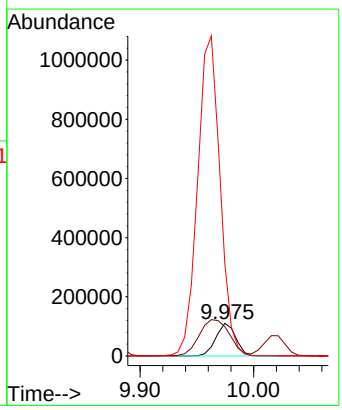


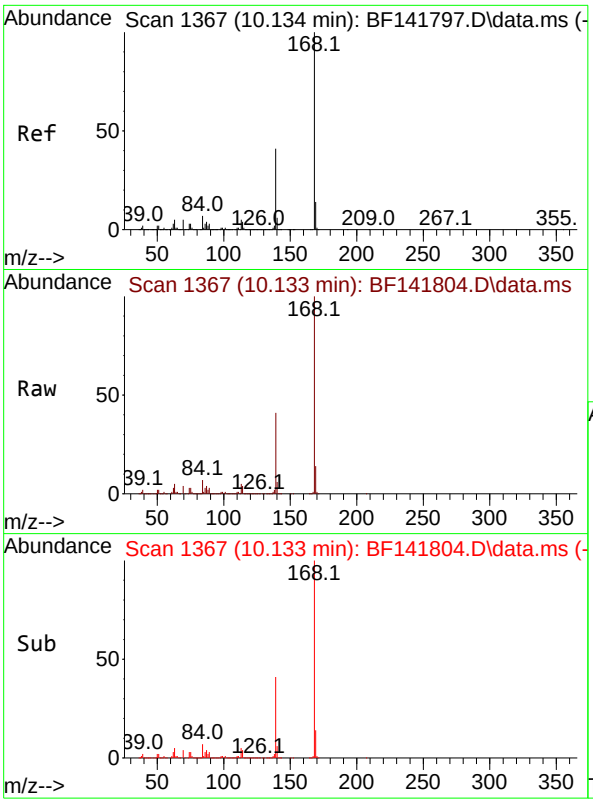


#54
2,4-Dinitrophenol
Concen: 43.298 ng
RT: 9.975 min Scan# 1340
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:184 Resp: 134535

Ion	Ratio	Lower	Upper
184	100		
63	90.4	79.0	118.6
154	285.4	335.8	503.8#



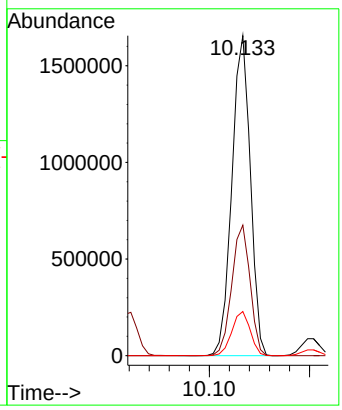


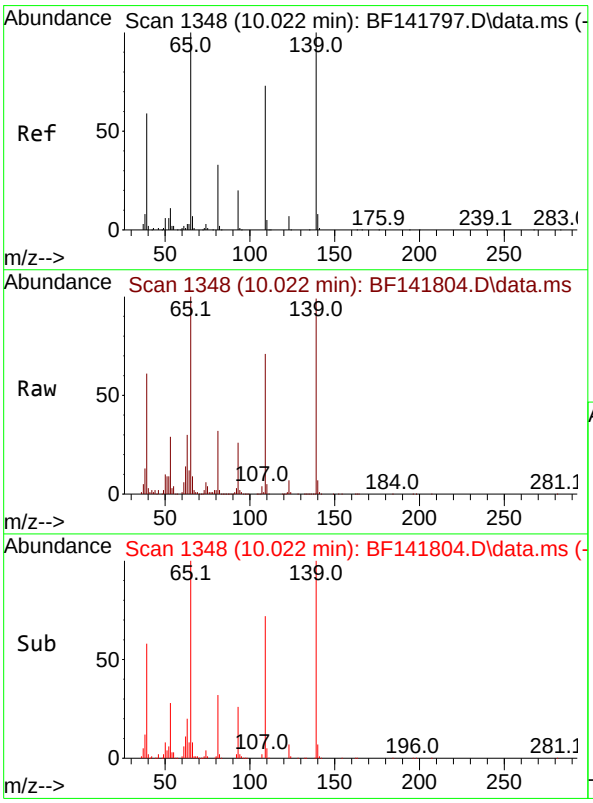
#55
Dibenzofuran
Concen: 39.445 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 2121407

Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.9	49.3
169	13.8	11.1	16.7

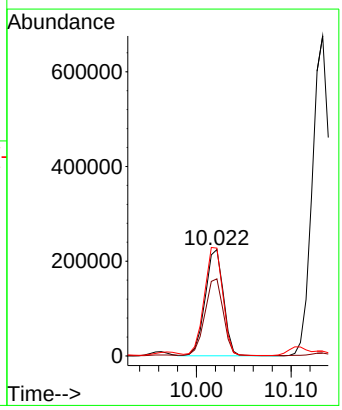


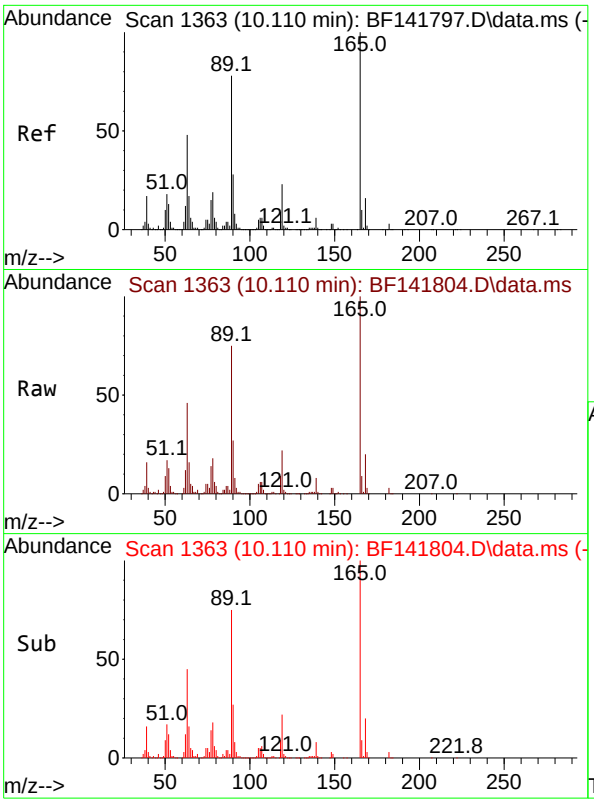


#56
4-Nitrophenol
Concen: 46.472 ng
RT: 10.022 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:139 Resp: 298837

Ion	Ratio	Lower	Upper
139	100		
109	72.5	53.4	93.4
65	101.5	82.1	122.1



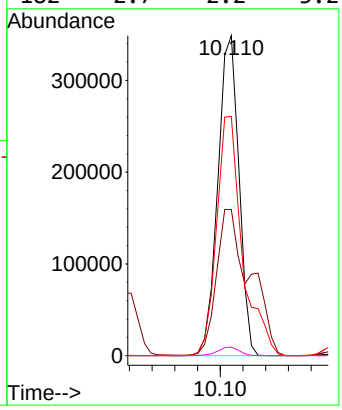


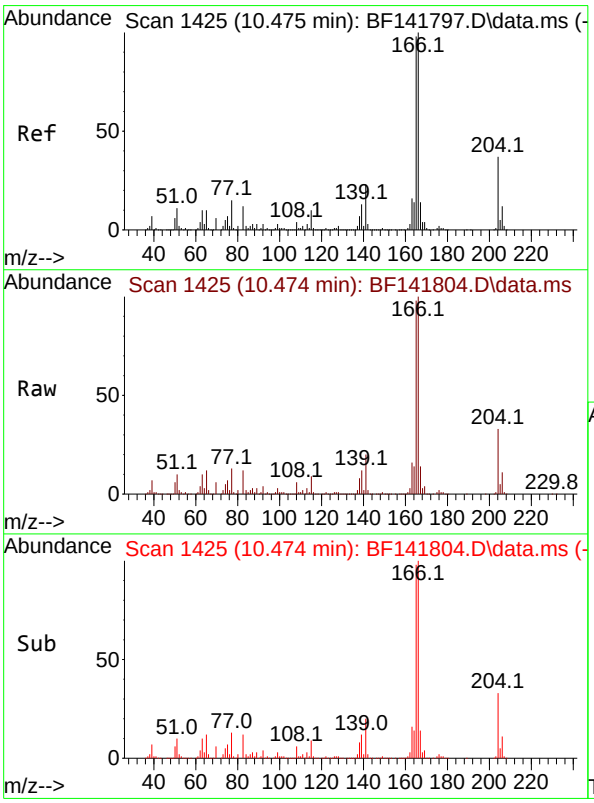
#57
2,4-Dinitrotoluene
Concen: 44.508 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 449985

Ion	Ratio	Lower	Upper
165	100		
63	45.7	38.8	58.2
89	74.8	62.6	94.0
182	2.7	2.2	3.2

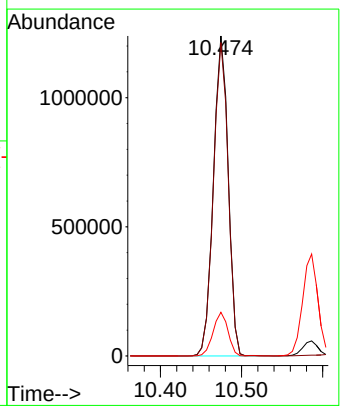


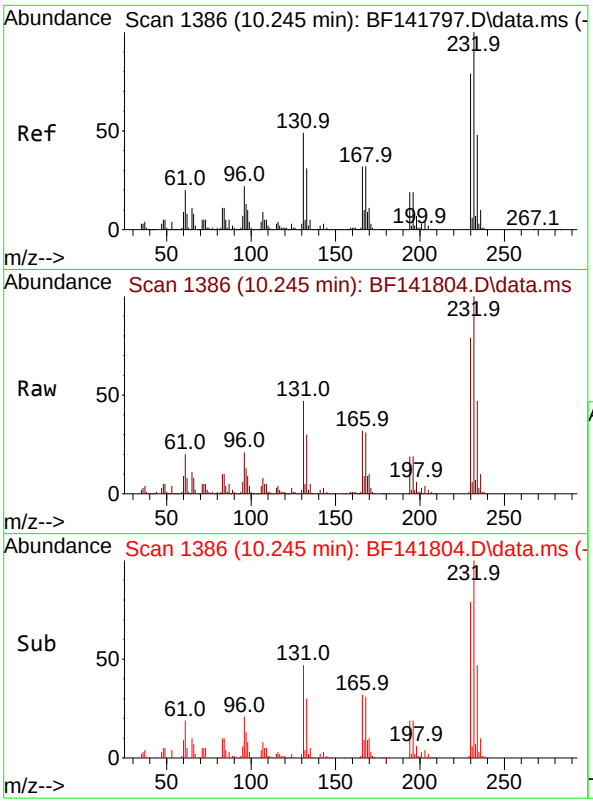


#58
Fluorene
Concen: 39.008 ng
RT: 10.474 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:166 Resp: 1571475

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.6	117.8
167	13.7	11.0	16.4



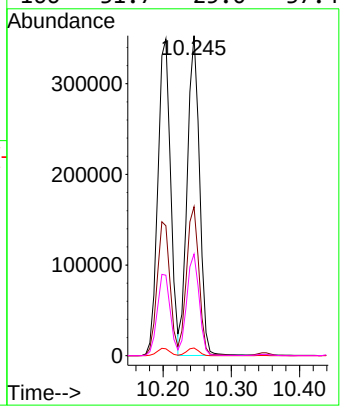


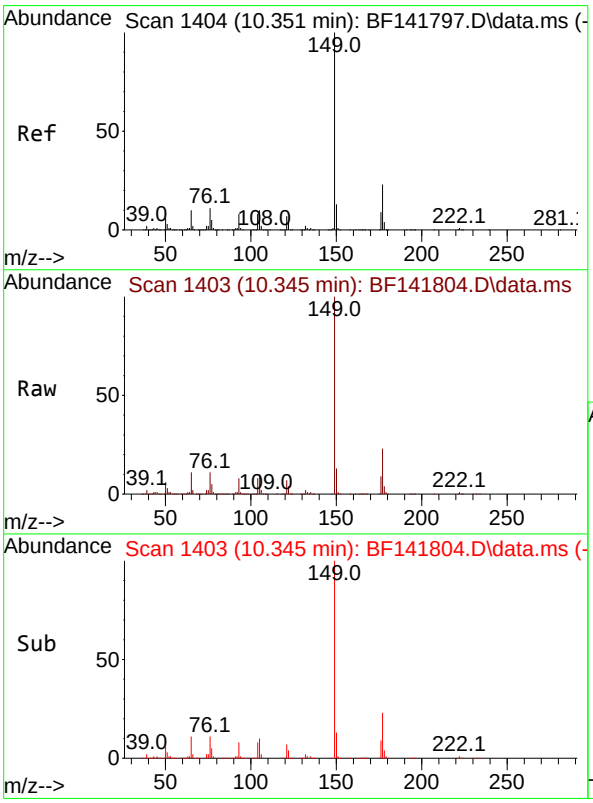
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.969 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 438402

Ion	Ratio	Lower	Upper
232	100		
131	47.2	37.8	56.8
130	2.4	2.0	3.0
166	31.7	25.0	37.4

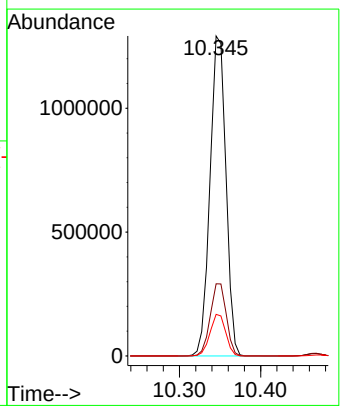


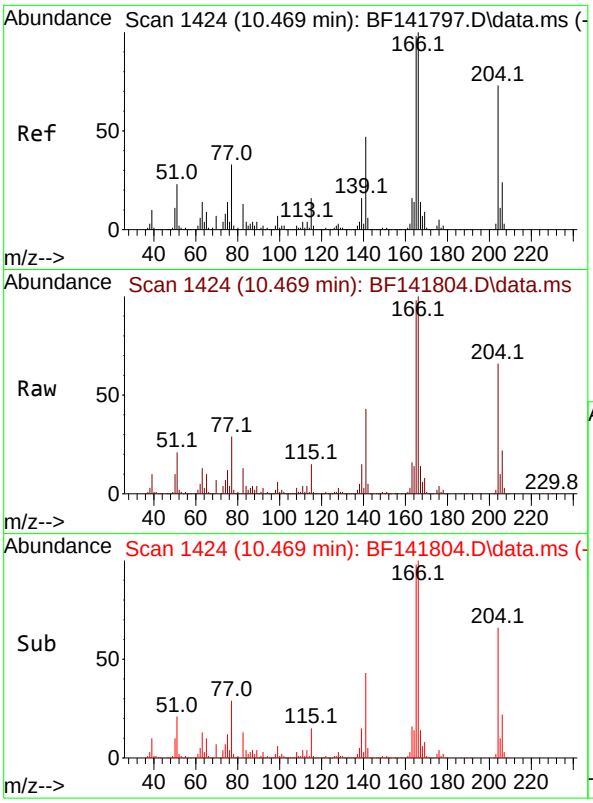


#60
Diethylphthalate
Concen: 40.308 ng
RT: 10.345 min Scan# 1403
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:149 Resp: 1759347

Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.3	27.5
150	13.0	10.3	15.5



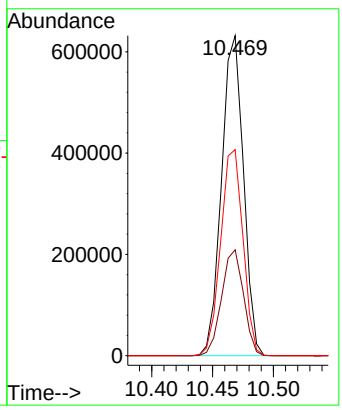


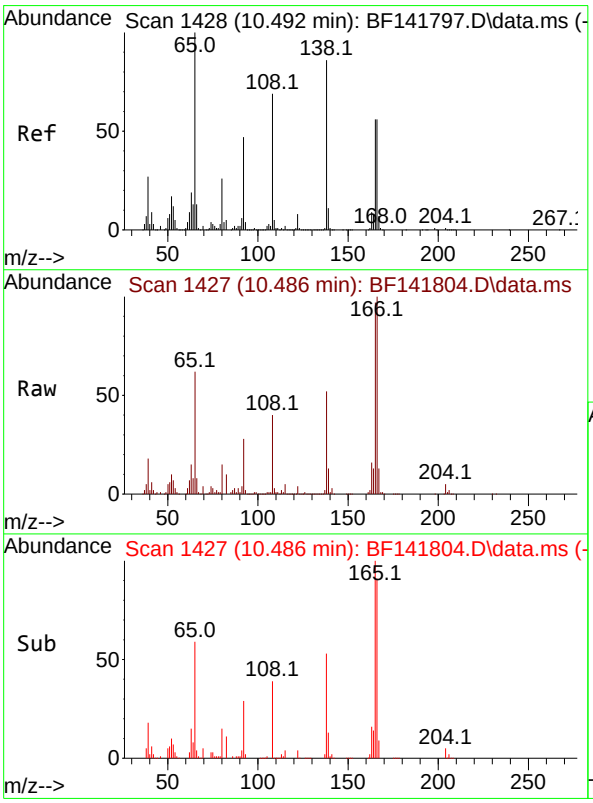
#61
4-Chlorophenyl-phenylether
Concen: 39.265 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 792536

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.2	39.4
141	64.4	51.7	77.5

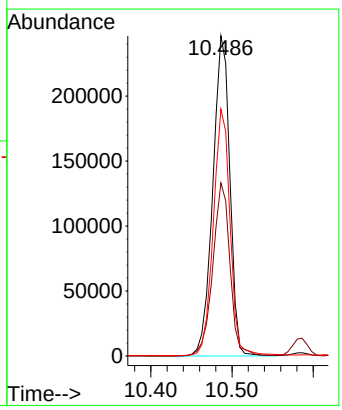


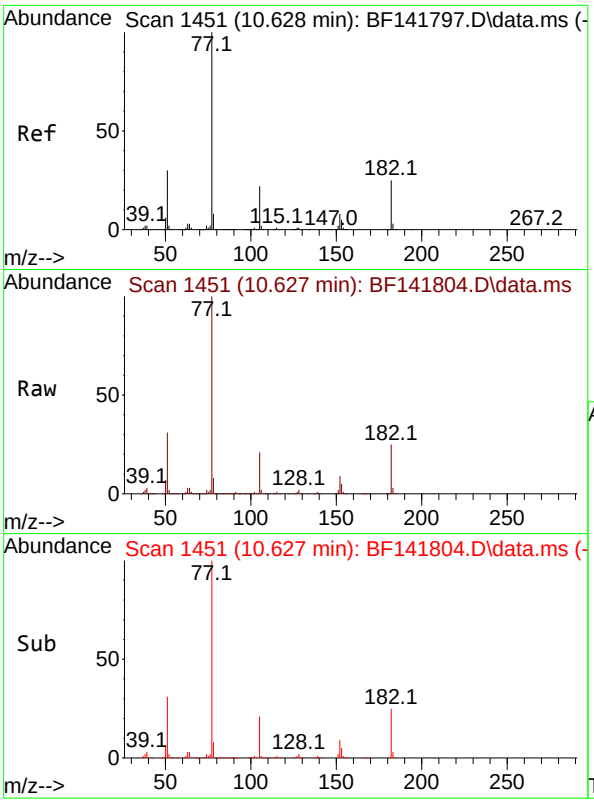


#62
4-Nitroaniline
Concen: 48.328 ng
RT: 10.486 min Scan# 1427
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:138 Resp: 359342

Ion	Ratio	Lower	Upper
138	100		
92	54.1	34.9	74.9
108	77.1	59.6	99.6



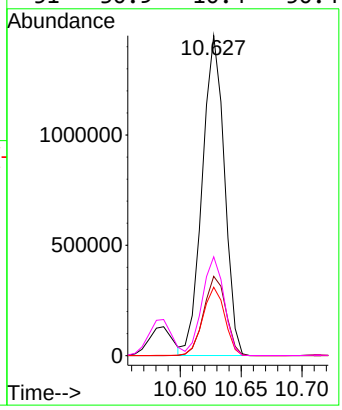


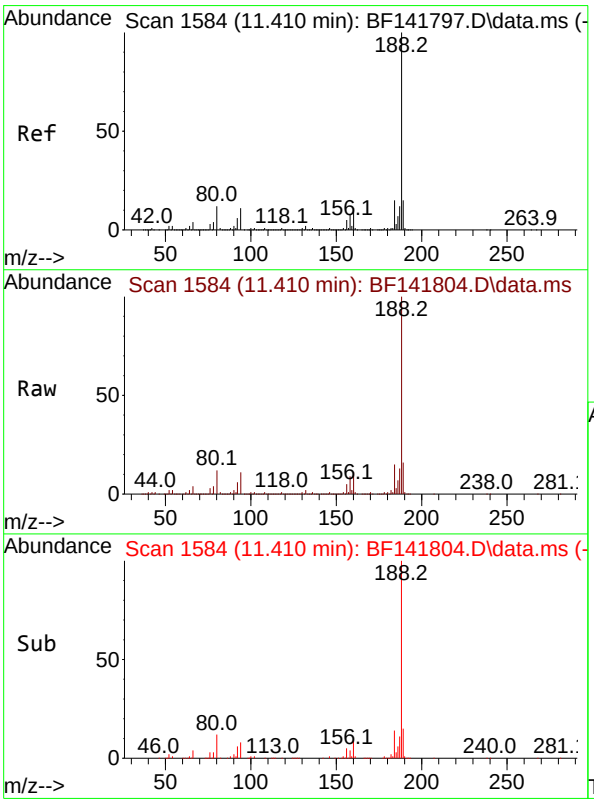
#63
Azobenzene
Concen: 39.906 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 1833964

Ion	Ratio	Lower	Upper
77	100		
182	24.8	4.2	44.2
105	21.4	1.5	41.5
51	30.9	10.4	50.4

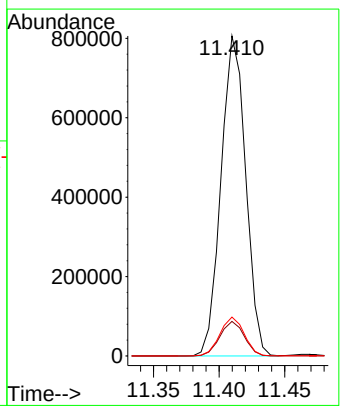


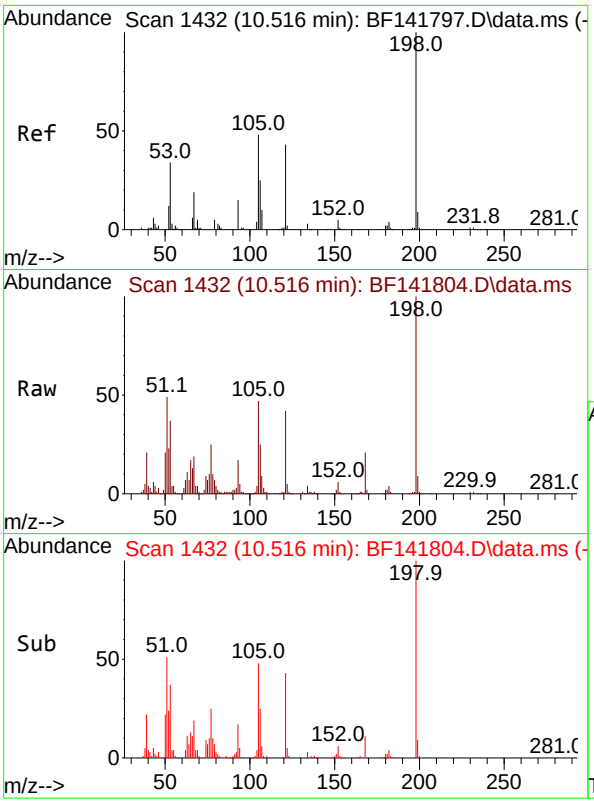


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:188 Resp: 1053744

Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.9	13.3
80	12.2	9.7	14.5



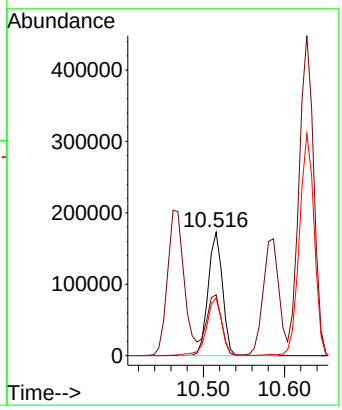


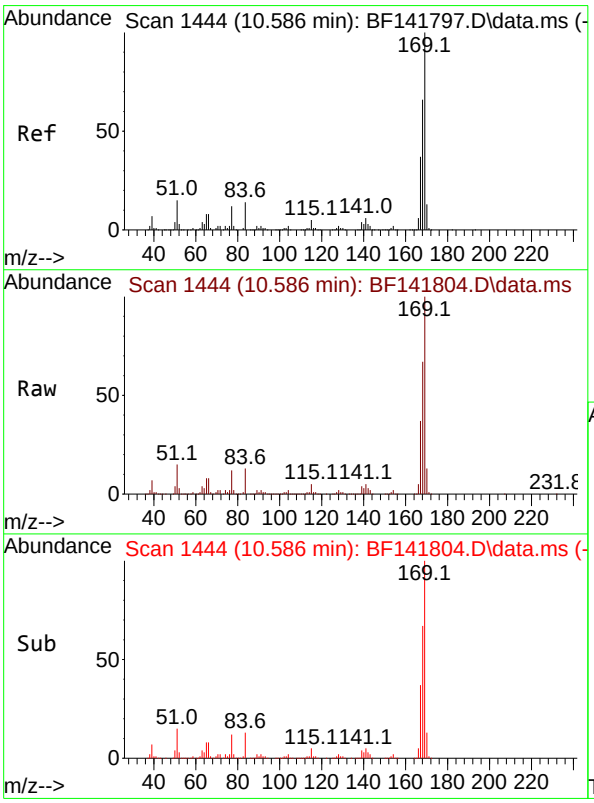
#65
4,6-Dinitro-2-methylphenol
Concen: 43.398 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 210693

Ion	Ratio	Lower	Upper
198	100		
51	49.4	32.1	72.1
105	46.8	28.5	68.5

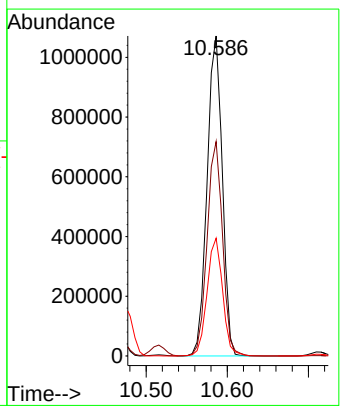


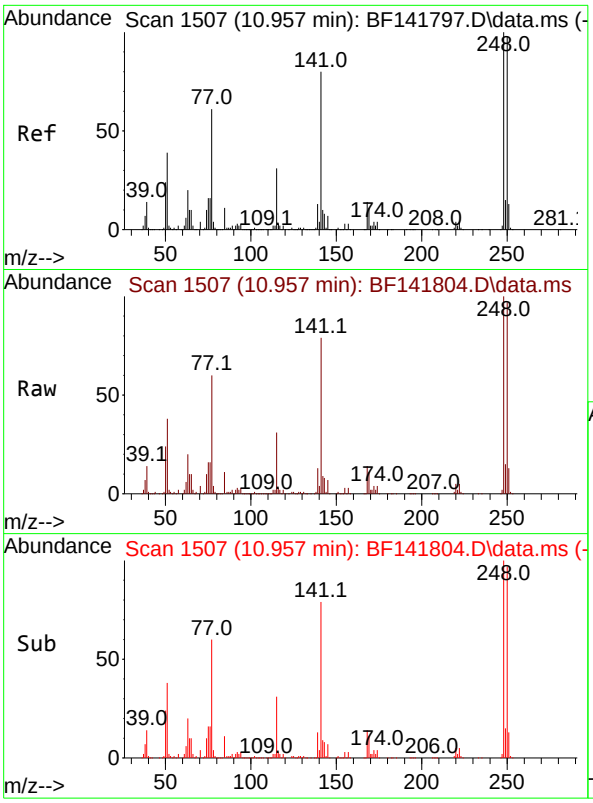


#66
n-Nitrosodiphenylamine
Concen: 40.068 ng
RT: 10.586 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:169 Resp: 1386416

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.0	79.6
167	36.8	29.3	43.9



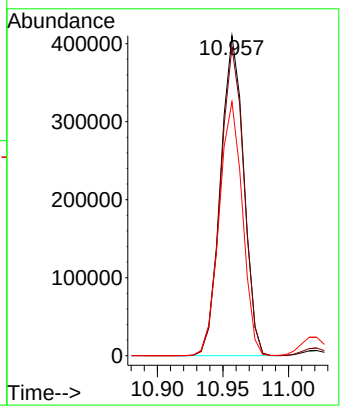


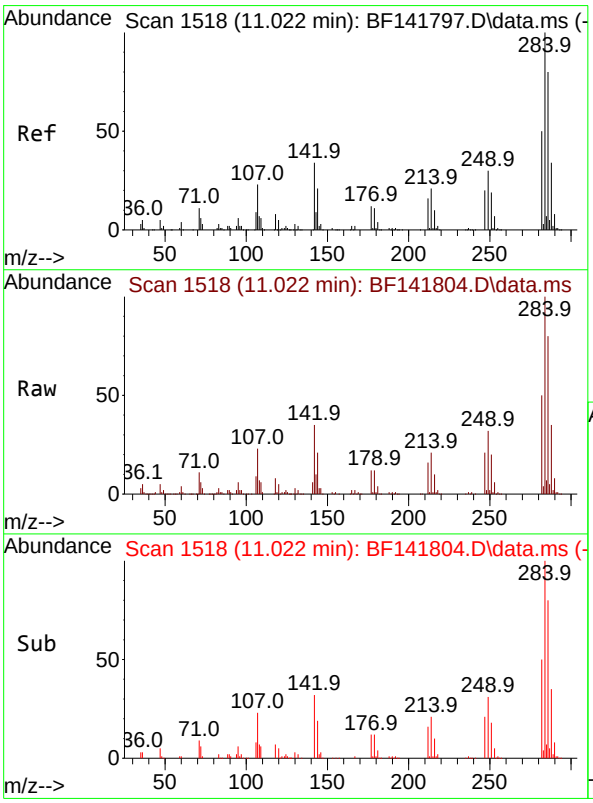
#67
4-Bromophenyl-phenylether
Concen: 40.987 ng
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 504470

Ion	Ratio	Lower	Upper
248	100		
250	96.5	78.1	117.1
141	79.4	64.3	96.5

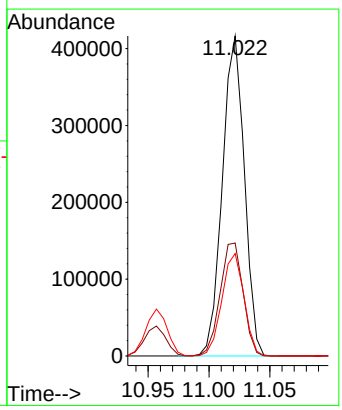


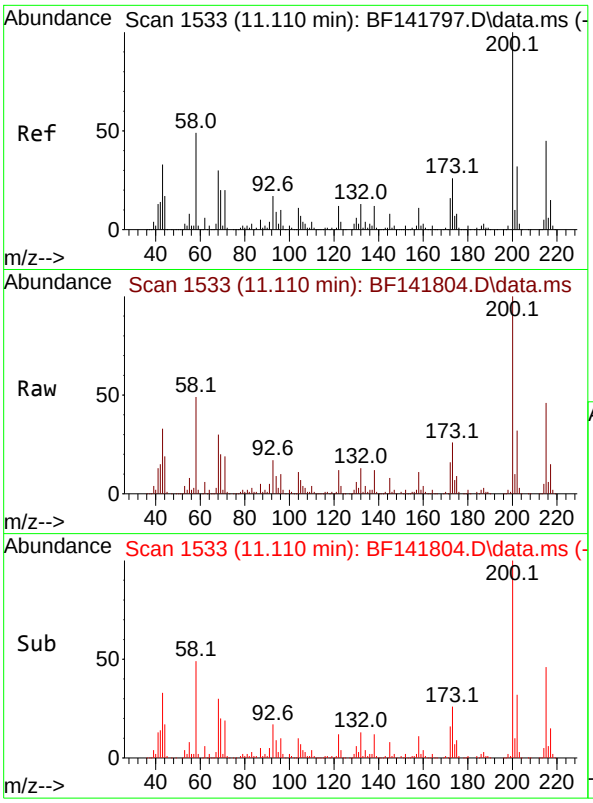


#68
Hexachlorobenzene
Concen: 40.301 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:284 Resp: 523795

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.2	42.2
249	32.0	25.5	38.3



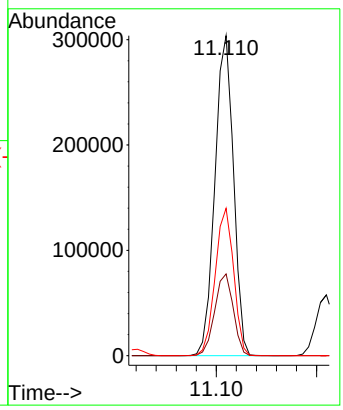


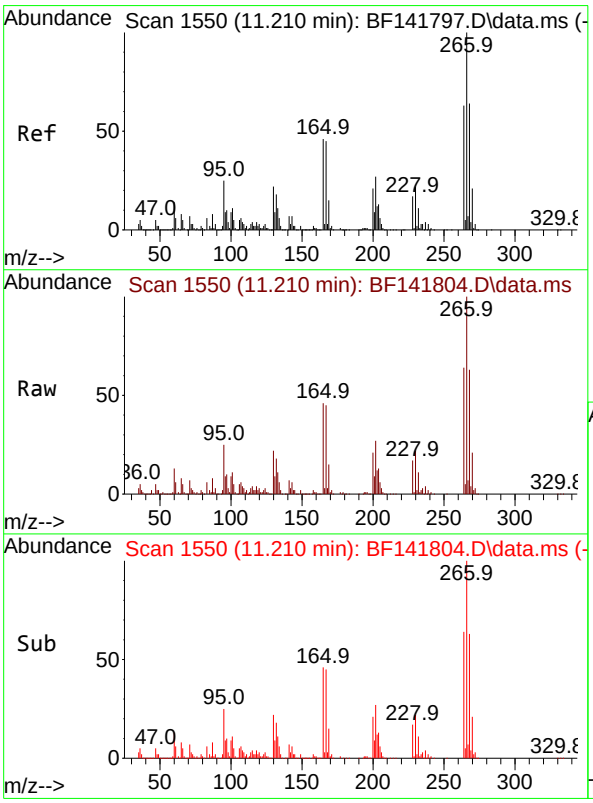
#69
Atrazine
Concen: 40.970 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 389837

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	46.0	25.3	65.3

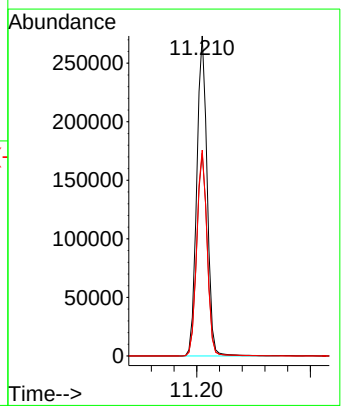


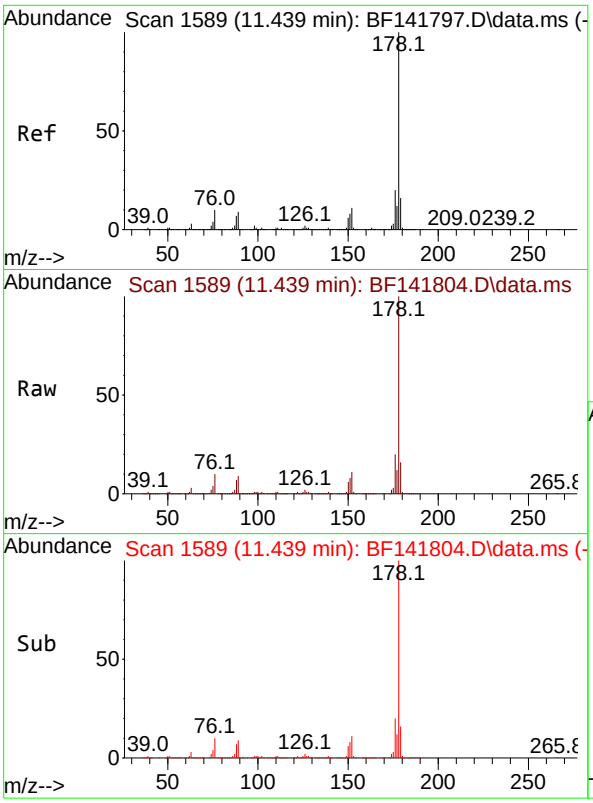


#70
Pentachlorophenol
Concen: 42.219 ng
RT: 11.210 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:266 Resp: 348023

Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.9	76.3
264	64.3	50.2	75.4



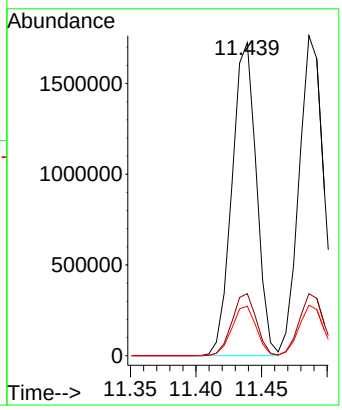


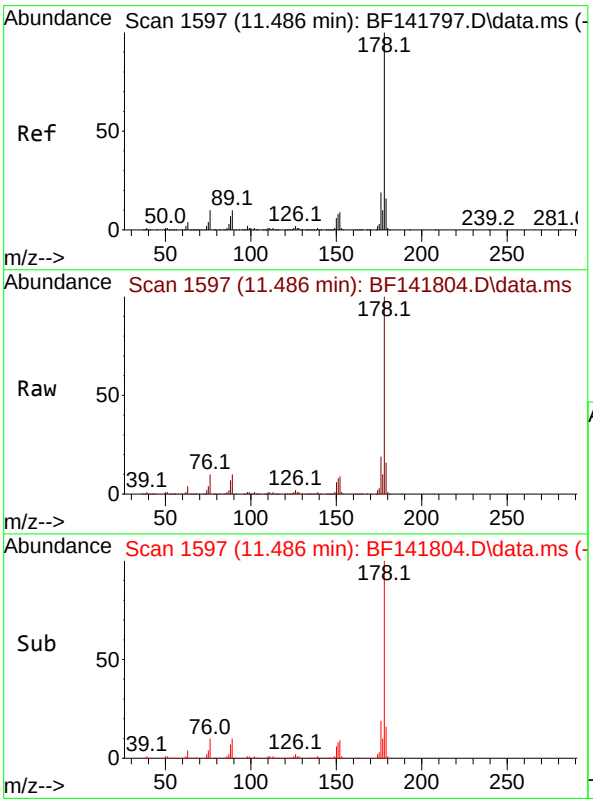
#71
Phenanthrene
Concen: 39.734 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 2239614

Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.0	24.0
179	15.8	12.6	19.0

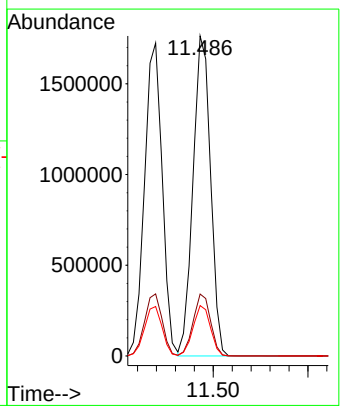


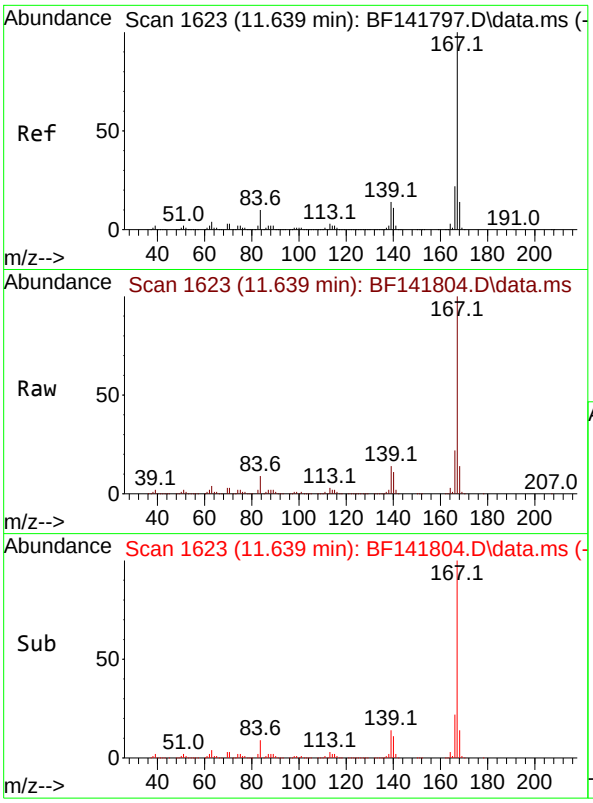


#72
Anthracene
Concen: 40.131 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:178 Resp: 2266984

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.7	12.8	19.2



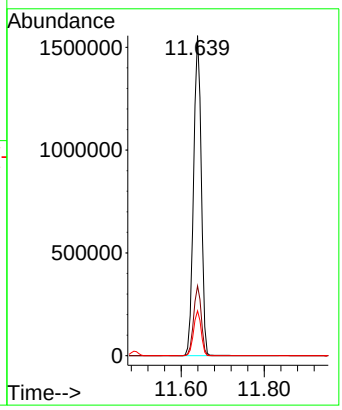


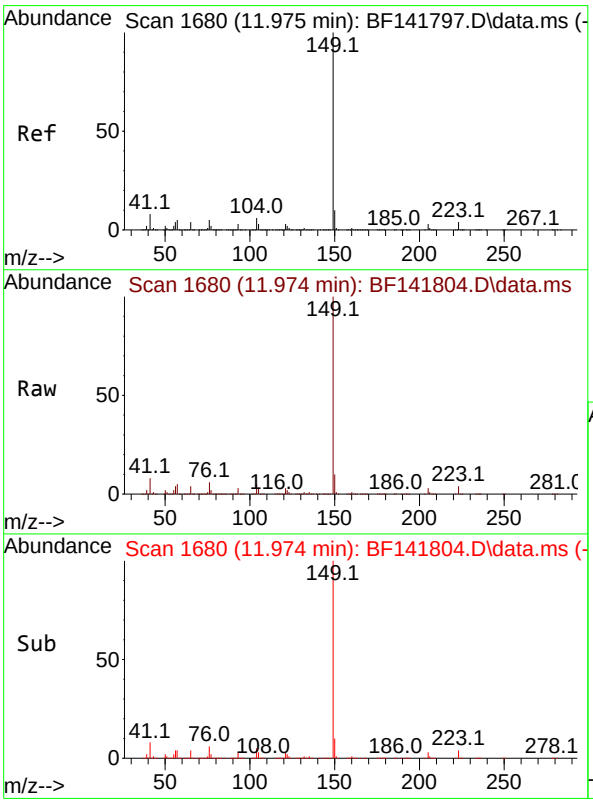
#73
Carbazole
Concen: 40.064 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1998599

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	14.0	11.3	16.9

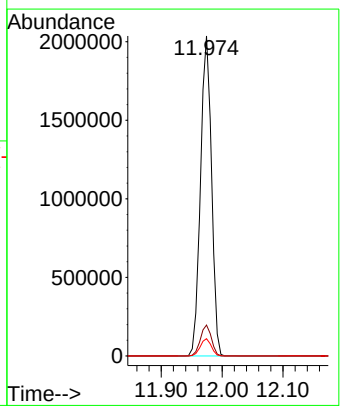


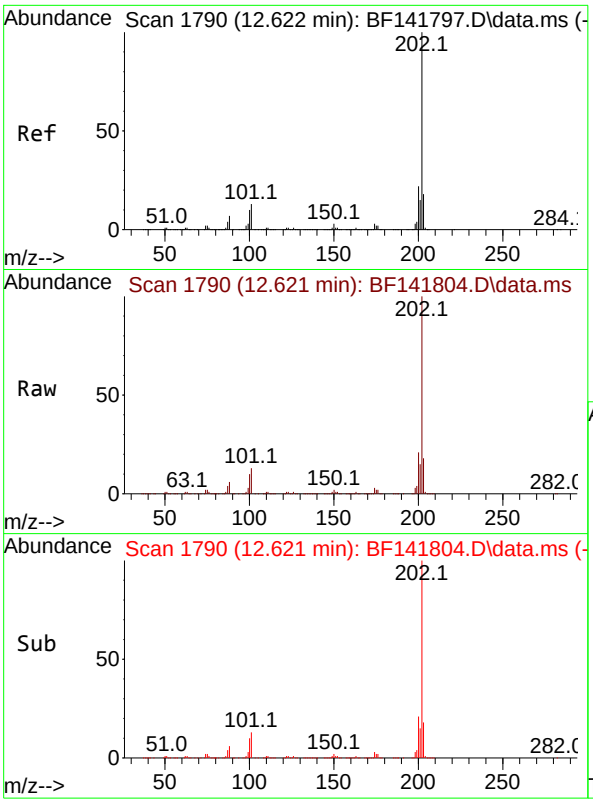


#74
Di-n-butylphthalate
Concen: 40.466 ng
RT: 11.974 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:149 Resp: 2558814

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.7	11.5
104	5.4	4.4	6.6



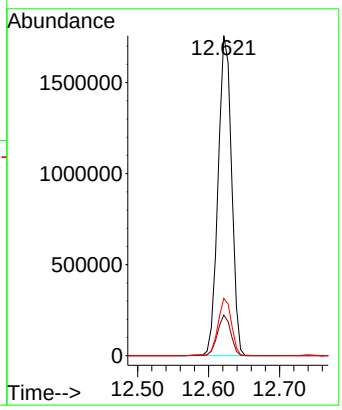


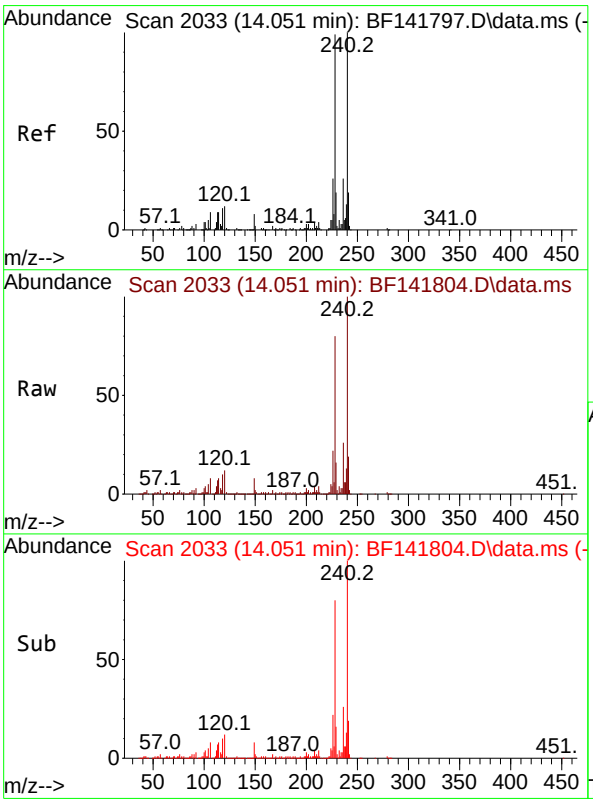
#75
Fluoranthene
Concen: 39.900 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 2304411

Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	32.8
203	17.9	0.0	38.0

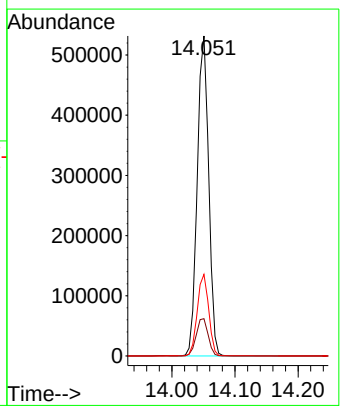


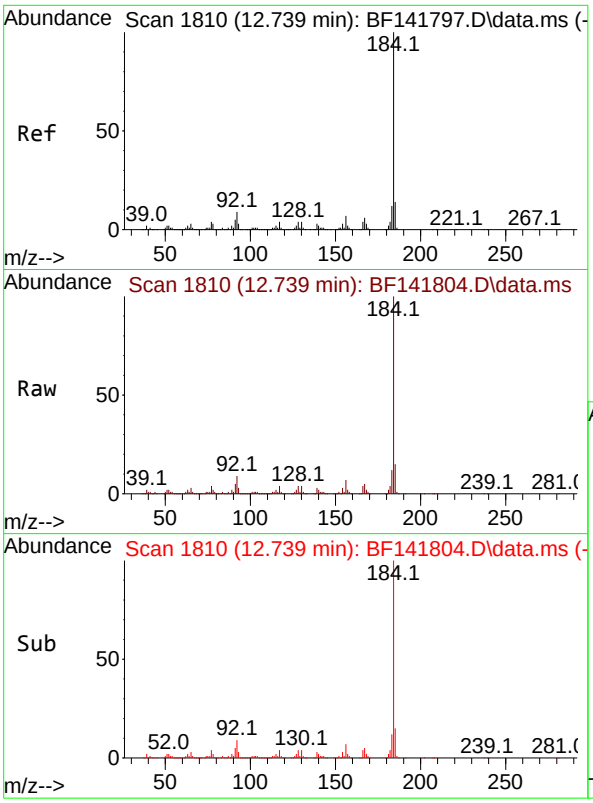


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:240 Resp: 667542

Ion	Ratio	Lower	Upper
240	100		
120	11.7	9.7	14.5
236	25.5	21.0	31.4



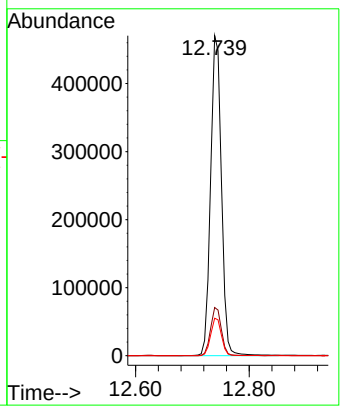


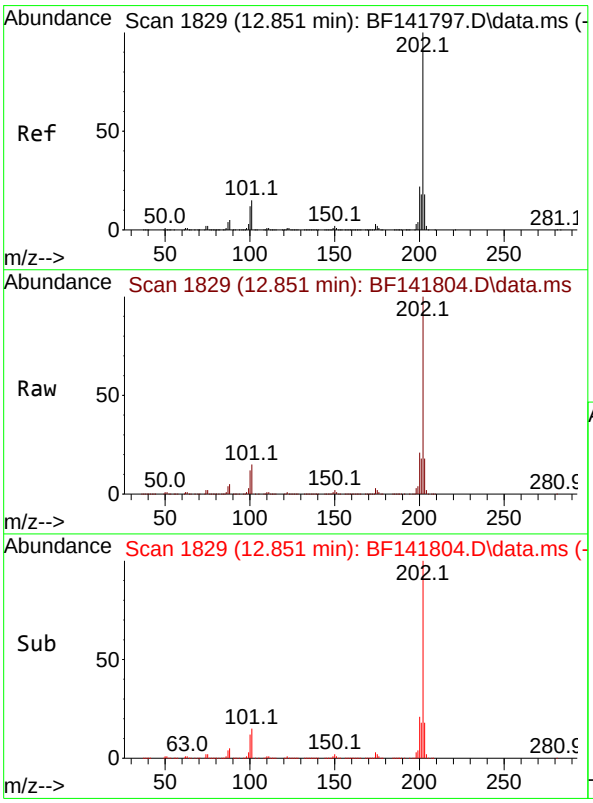
#77
Benzidine
Concen: 73.724 ng
RT: 12.739 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 619427

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.6	17.4
183	11.7	9.4	14.0

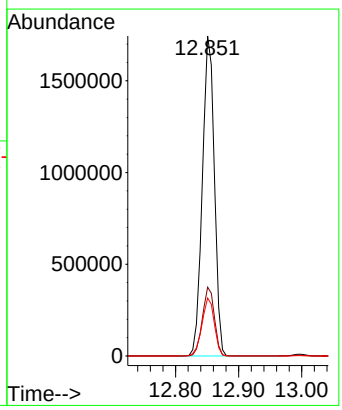


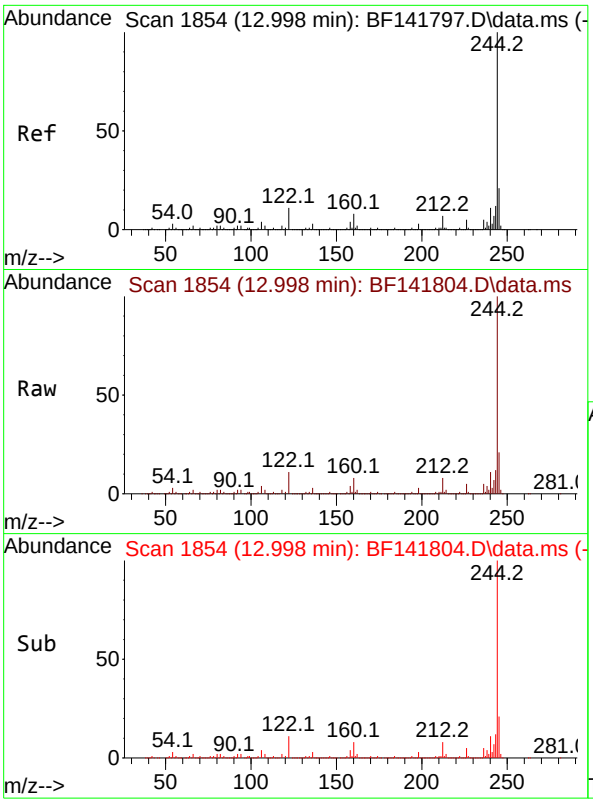


#78
Pyrene
Concen: 39.904 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:202 Resp: 2306631

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.0
203	18.1	14.6	22.0



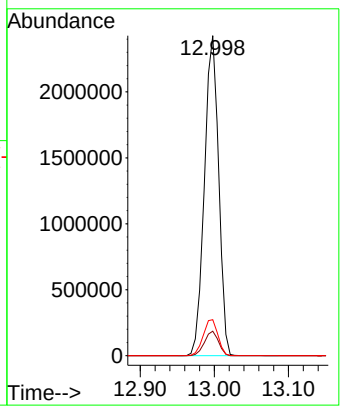


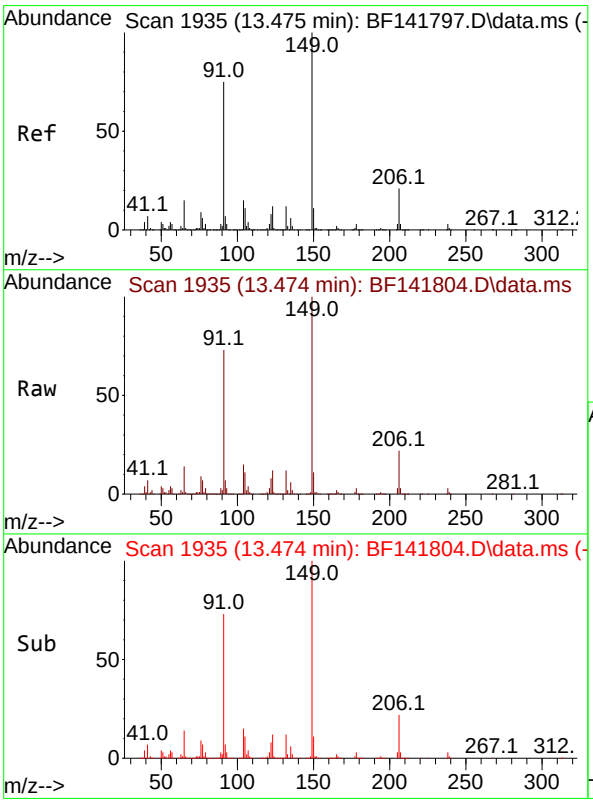
#79
Terphenyl-d14
Concen: 78.491 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 3238464

Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.0	9.0
122	11.3	9.0	13.6

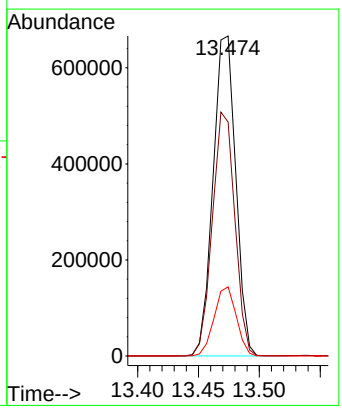


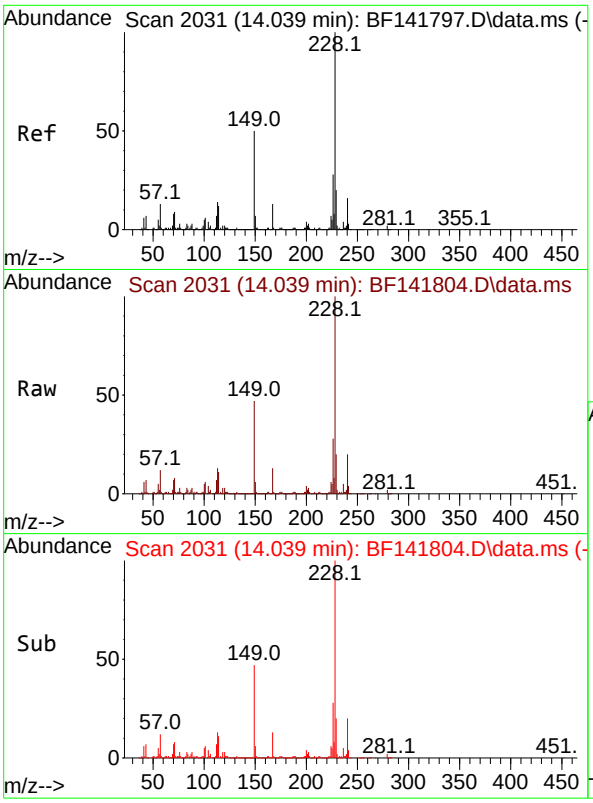


#80
Butylbenzylphthalate
Concen: 41.230 ng
RT: 13.474 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:149 Resp: 865900

Ion	Ratio	Lower	Upper
149	100		
91	73.1	60.1	90.1
206	21.6	16.8	25.2



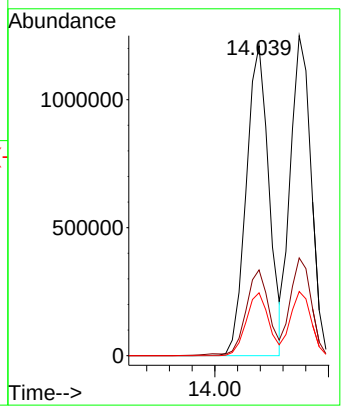


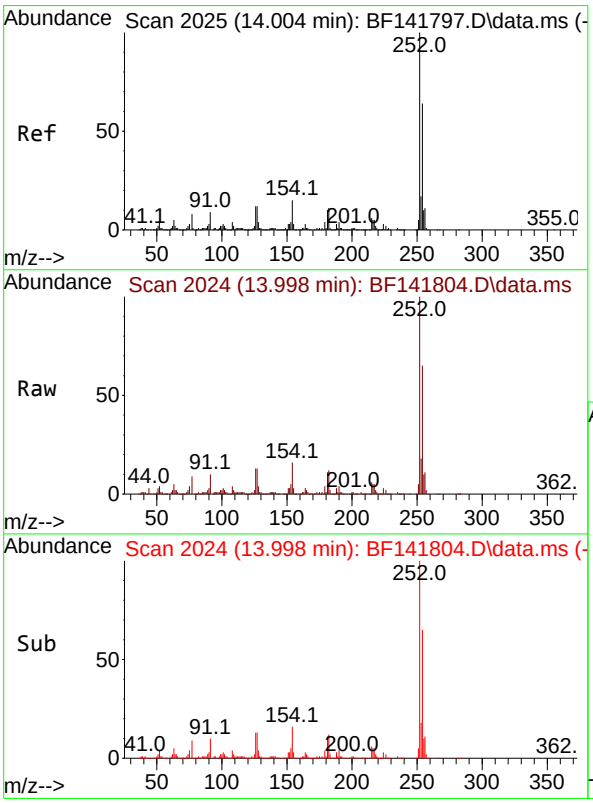
#81
Benzo(a)anthracene
Concen: 38.165 ng
RT: 14.039 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1682769

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.1	33.1
229	20.3	16.1	24.1

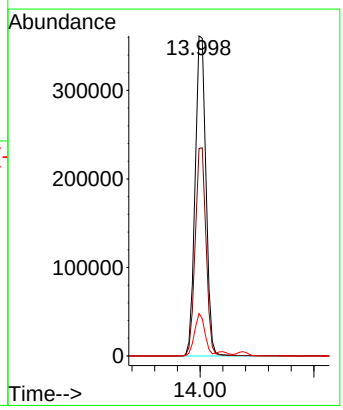


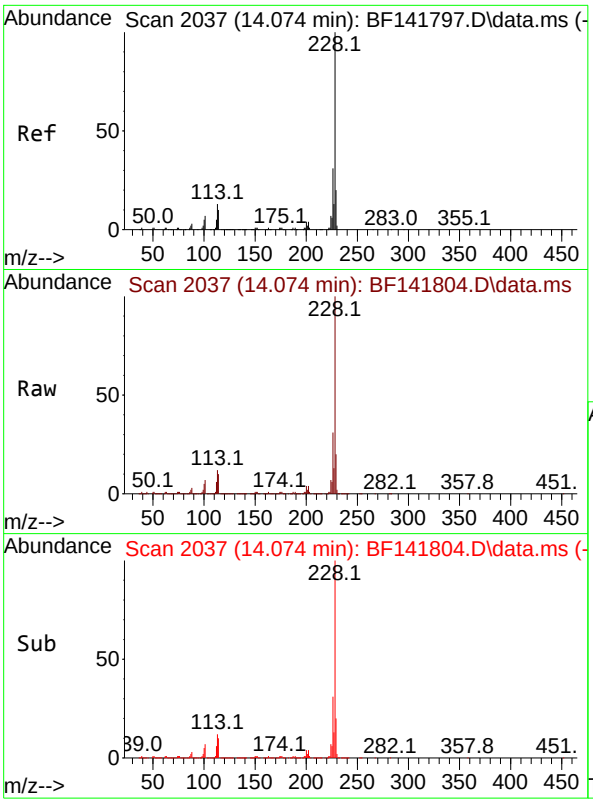


#82
3,3'-Dichlorobenzidine
Concen: 38.082 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:252 Resp: 481744

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.4	77.0
126	13.3	9.8	14.6



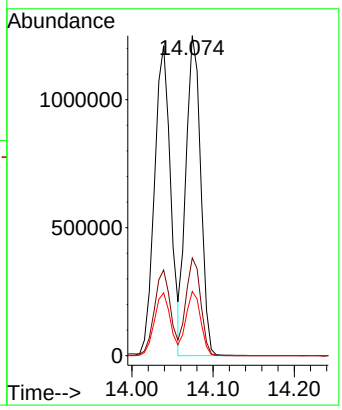


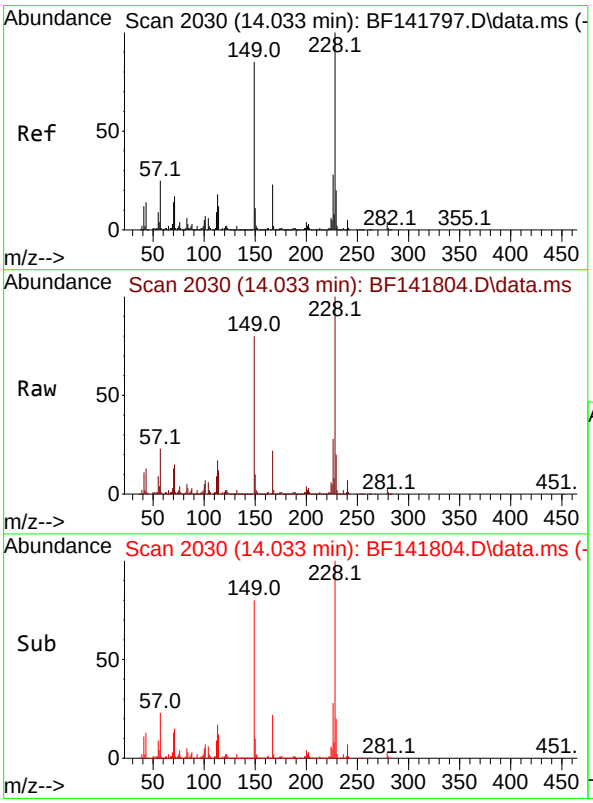
#83
Chrysene
Concen: 38.806 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1577279

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.6	37.0
229	20.0	16.1	24.1

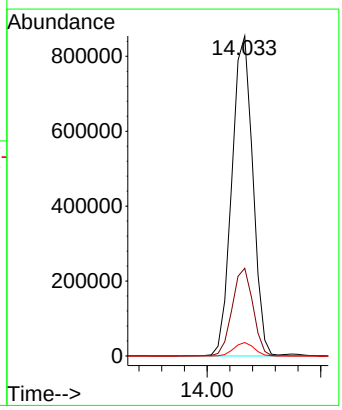


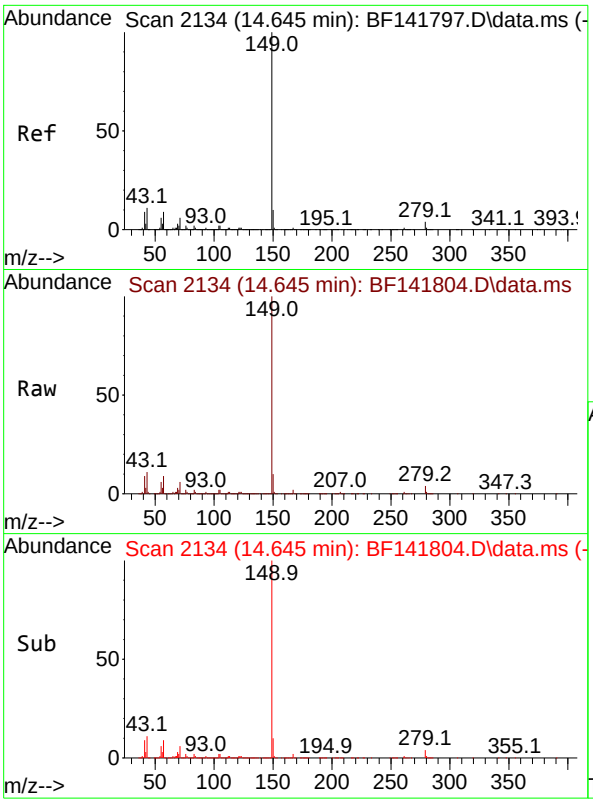


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.802 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:149 Resp: 1093145

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.2	31.8
279	4.2	3.3	4.9



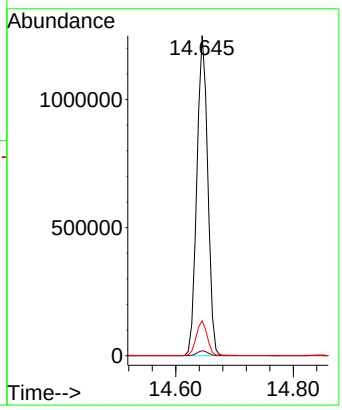


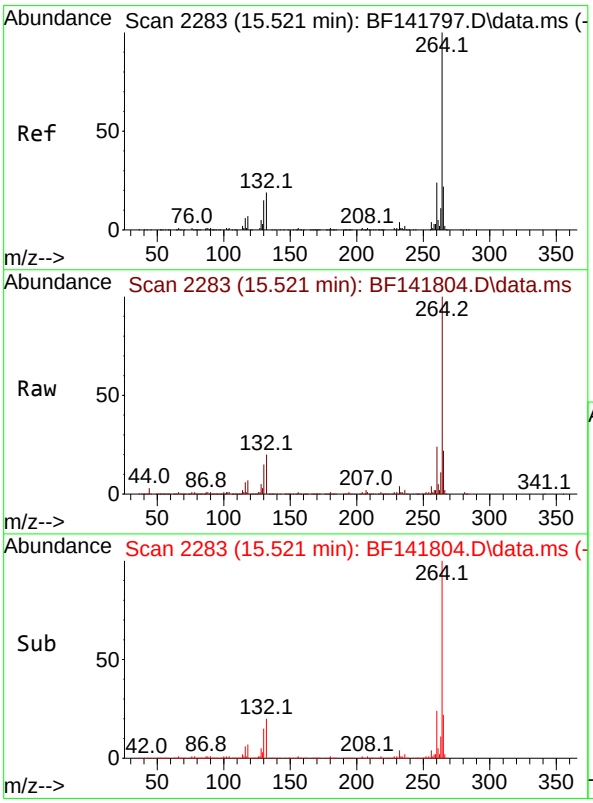
#85
Di-n-octyl phthalate
Concen: 40.976 ng
RT: 14.645 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1604218

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.9	8.6	12.8

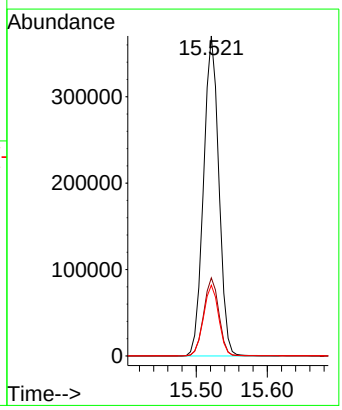


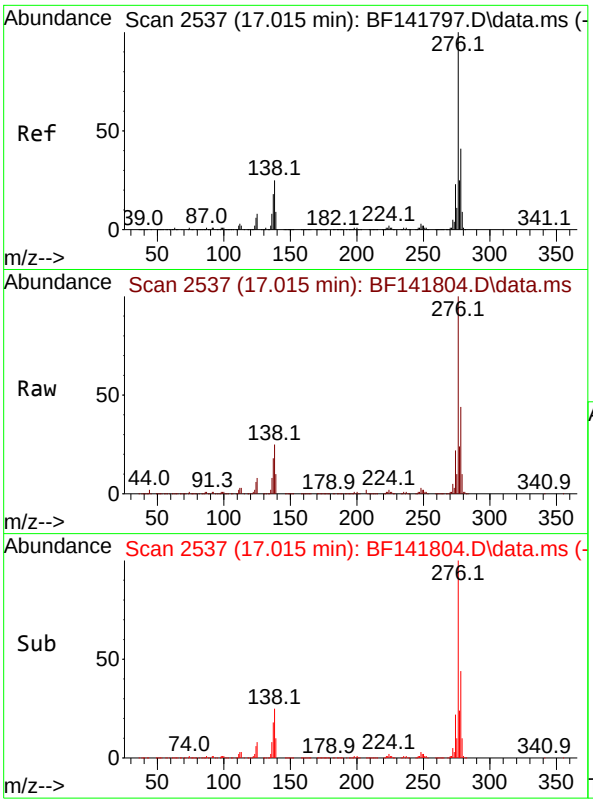


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:264 Resp: 556281

Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.9	28.3
265	22.1	17.4	26.0



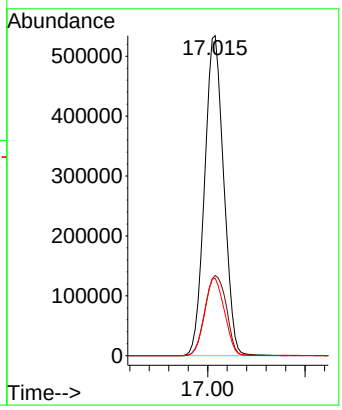


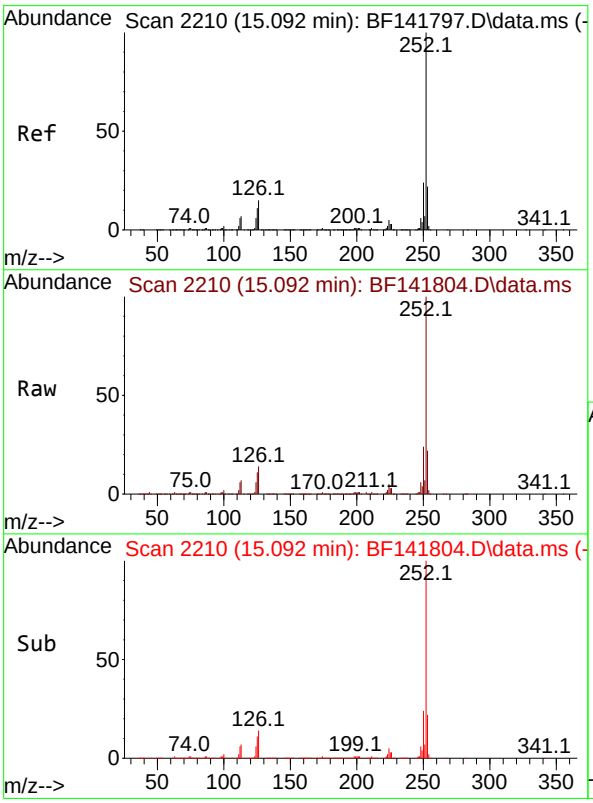
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.981 ng
RT: 17.015 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1451648

Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.5	33.7
277	25.2	20.3	30.5

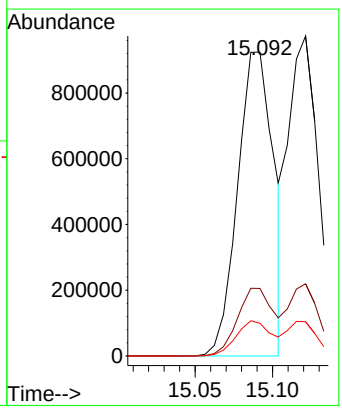


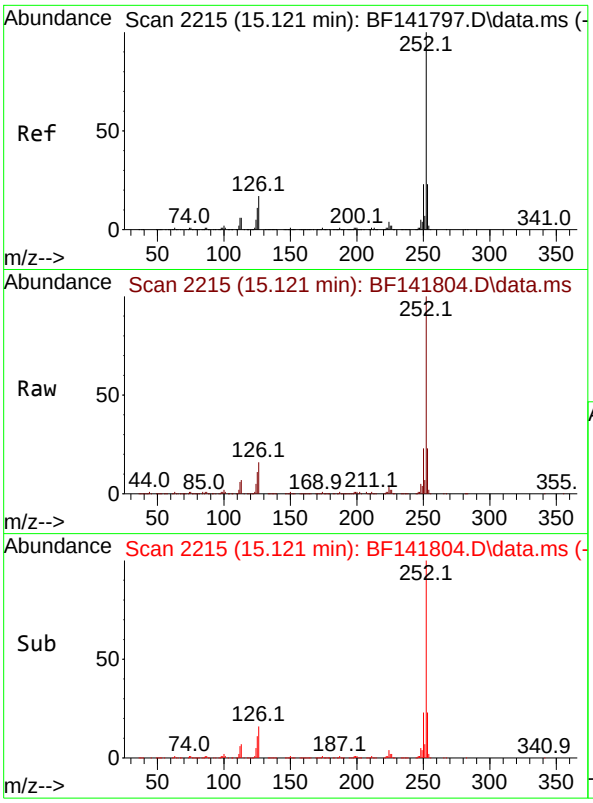


#88
Benzo(b)fluoranthene
Concen: 39.402 ng
RT: 15.092 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:252 Resp: 1493053

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	10.7	8.6	13.0



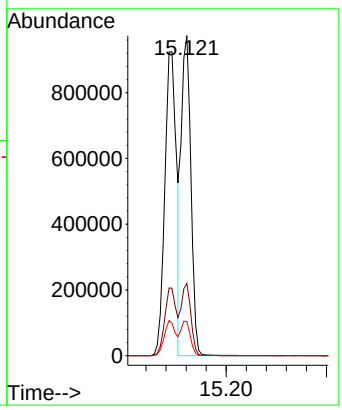


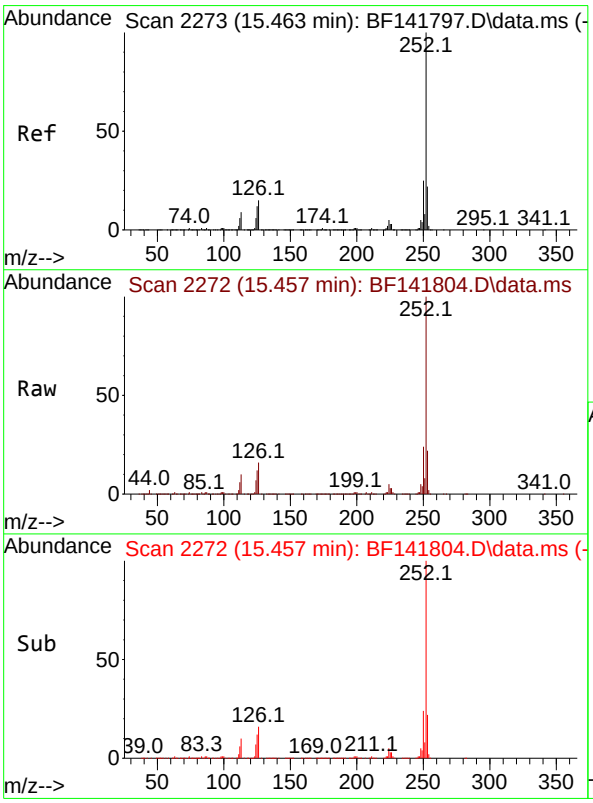
#89
Benzo(k)fluoranthene
Concen: 40.609 ng
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 1307888

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	10.7	8.8	13.2

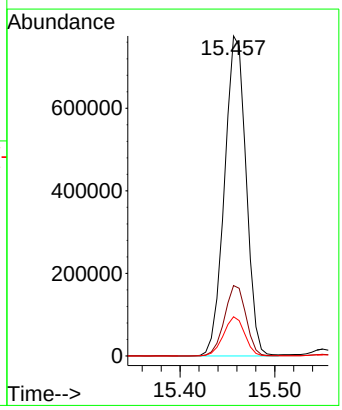


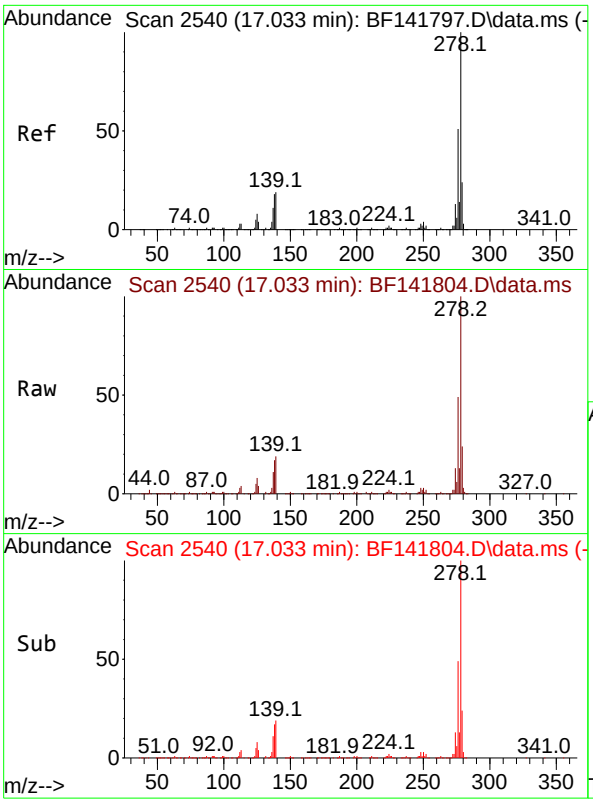


#90
Benzo(a)pyrene
Concen: 40.324 ng
RT: 15.457 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:252 Resp: 1225401

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	12.3	9.4	14.2



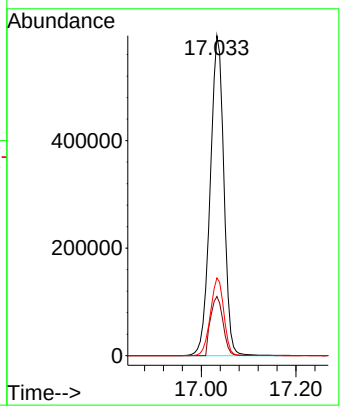


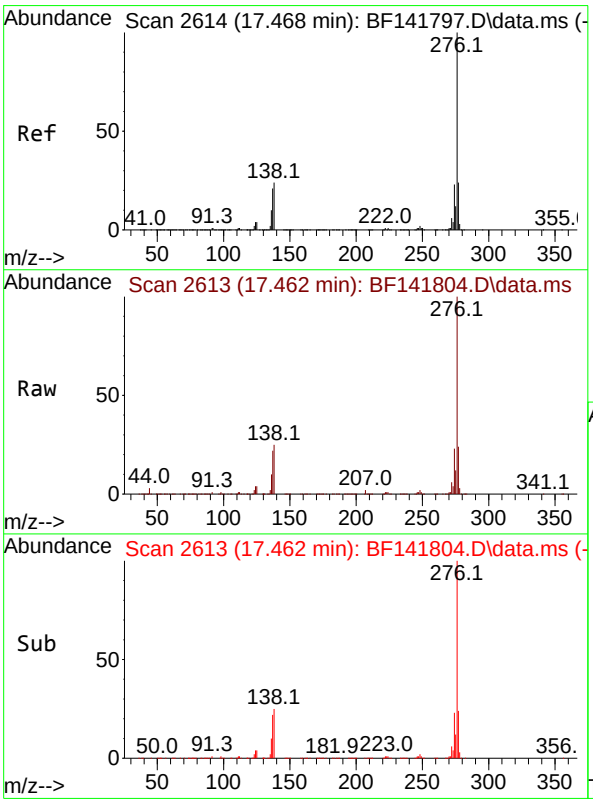
#91
Dibenzo(a,h)anthracene
Concen: 41.338 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 1195240

Ion	Ratio	Lower	Upper
278	100		
139	18.5	14.9	22.3
279	24.3	19.3	28.9

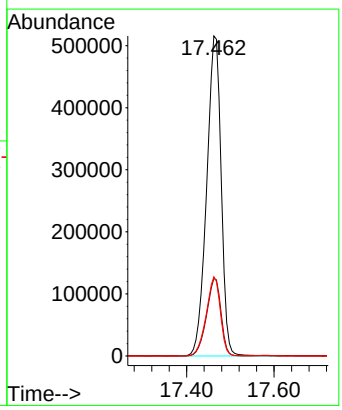




#92
Benzo(g,h,i)perylene
Concen: 40.214 ng
RT: 17.462 min Scan# 2613
Delta R.T. -0.006 min
Lab File: BF141804.D
Acq: 28 Feb 2025 10:03

Tgt Ion:276 Resp: 1191181

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.4	29.0
138	24.7	19.3	28.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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	107	0.00
2		1,4-Dioxane	0.568	0.568	0.0	102	-0.01
3		Pyridine	1.414	1.435	-1.5	104	-0.01
4		n-Nitrosodimethylamine	0.680	0.691	-1.6	101	-0.02
5	S	2-Fluorophenol	1.252	1.228	1.9	102	0.00
6		Aniline	1.695	1.687	0.5	100	0.00
7	S	Phenol-d6	1.630	1.583	2.9	100	0.00
8		2-Chlorophenol	1.355	1.327	2.1	101	0.00
9		Benzaldehyde	0.948	0.794	16.2	86	0.00
10	C	Phenol	1.742	1.704	2.2	100	0.00
11		bis(2-Chloroethyl)ether	1.328	1.308	1.5	104	0.00
12		1,3-Dichlorobenzene	1.451	1.424	1.9	101	0.00
13	C	1,4-Dichlorobenzene	1.462	1.422	2.7	101	0.00
14		1,2-Dichlorobenzene	1.365	1.328	2.7	101	0.00
15		Benzyl Alcohol	1.303	1.271	2.5	99	0.00
16		2,2'-oxybis(1-Chloropropane	2.016	1.998	0.9	103	0.00
17		2-Methylphenol	1.118	1.109	0.8	102	0.00
18		Hexachloroethane	0.547	0.547	0.0	101	0.00
19	P	n-Nitroso-di-n-propylamine	1.072	1.048	2.2	103	0.00
20		3+4-Methylphenols	1.392	1.366	1.9	101	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
22		Acetophenone	0.487	0.479	1.6	101	0.00
23	S	Nitrobenzene-d5	0.313	0.354	-13.1	108	0.00
24		Nitrobenzene	0.335	0.373	-11.3	107	0.00
25		Isophorone	0.672	0.666	0.9	102	0.00
26	C	2-Nitrophenol	0.127	0.157	-23.6#	114	0.00
27		2,4-Dimethylphenol	0.247	0.248	-0.4	102	0.00
28		bis(2-Chloroethoxy)methane	0.429	0.424	1.2	102	0.00
29	C	2,4-Dichlorophenol	0.285	0.291	-2.1	102	0.00
30		1,2,4-Trichlorobenzene	0.312	0.315	-1.0	103	0.00
31		Naphthalene	1.028	1.017	1.1	102	0.00
32		Benzoic acid	0.179	0.210	-17.3	115	0.00
33		4-Chloroaniline	0.377	0.373	1.1	103	0.00
34	C	Hexachlorobutadiene	0.194	0.196	-1.0	103	0.00
35		Caprolactam	0.088	0.090	-2.3	104	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.318	-0.3	102	0.00
37		2-Methylnaphthalene	0.674	0.665	1.3	103	0.00
38		1-Methylnaphthalene	0.647	0.643	0.6	103	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	0.578	0.578	0.0	102	0.00
41	P	Hexachlorocyclopentadiene	0.241	0.248	-2.9	100	0.00
42	S	2,4,6-Tribromophenol	0.188	0.196	-4.3	102	0.00
43	C	2,4,6-Trichlorophenol	0.373	0.408	-9.4	107	0.00
44		2,4,5-Trichlorophenol	0.369	0.371	-0.5	101	0.00
45	S	2-Fluorobiphenyl	1.247	1.225	1.8	103	0.00
46		1,1'-Biphenyl	1.522	1.527	-0.3	105	0.00
47		2-Chloronaphthalene	1.124	1.135	-1.0	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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	0.329	-26.5#	114	0.00
49		Acenaphthylene	1.685	1.683	0.1	102	0.00
50		Dimethylphthalate	1.339	1.338	0.1	102	0.00
51		2,6-Dinitrotoluene	0.226	0.277	-22.6	112	0.00
52	C	Acenaphthene	1.137	1.146	-0.8	104	0.00
53		3-Nitroaniline	0.241	0.291	-20.7	109	0.00
54	P	2,4-Dinitrophenol	0.089	0.103	-15.7	116	0.00
55		Dibenzofuran	1.654	1.631	1.4	102	0.00
56	P	4-Nitrophenol	0.198	0.230	-16.2	105	0.00
57		2,4-Dinitrotoluene	0.269	0.346	-28.6#	115	0.00
58		Fluorene	1.239	1.209	2.4	102	0.00
59		2,3,4,6-Tetrachlorophenol	0.321	0.337	-5.0	103	0.00
60		Diethylphthalate	1.343	1.353	-0.7	102	0.00
61		4-Chlorophenyl-phenylether	0.621	0.610	1.8	102	0.00
62		4-Nitroaniline	0.229	0.276	-20.5	108	0.00
63		Azobenzene	1.414	1.410	0.3	102	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	0.081	0.100	-23.5	118	0.00
66	c	n-Nitrosodiphenylamine	0.657	0.658	-0.2	101	0.00
67		4-Bromophenyl-phenylether	0.234	0.239	-2.1	103	0.00
68		Hexachlorobenzene	0.247	0.249	-0.8	101	0.00
69		Atrazine	0.181	0.185	-2.2	106	0.00
70	C	Pentachlorophenol	0.156	0.165	-5.8	100	0.00
71		Phenanthrene	1.070	1.063	0.7	101	0.00
72		Anthracene	1.072	1.076	-0.4	103	0.00
73		Carbazole	0.947	0.948	-0.1	101	0.00
74		Di-n-butylphthalate	1.200	1.214	-1.2	103	0.00
75	C	Fluoranthene	1.096	1.093	0.3	102	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	106	0.00
77		Benzidine	0.252	0.464	-84.1#	190#	0.00
78		Pyrene	1.732	1.728	0.2	102	0.00
79	S	Terphenyl-d14	1.236	1.213	1.9	102	0.00
80		Butylbenzylphthalate	0.629	0.649	-3.2	103	0.00
81		Benzo(a)anthracene	1.321	1.260	4.6	102	0.00
82		3,3'-Dichlorobenzidine	0.379	0.361	4.7	97	0.00
83		Chrysene	1.218	1.181	3.0	99	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.819	-4.6	104	0.00
85	c	Di-n-octyl phthalate	1.173	1.202	-2.5	98	0.00
86	I	Perylene-d12	1.000	1.000	0.0	98	0.00
87		Indeno(1,2,3-cd)pyrene	1.274	1.305	-2.4	95	0.00
88		Benzo(b)fluoranthene	1.362	1.342	1.5	101	0.00
89		Benzo(k)fluoranthene	1.158	1.176	-1.6	95	0.00
90	C	Benzo(a)pyrene	1.093	1.101	-0.7	96	0.00
91		Dibenzo(a,h)anthracene	1.040	1.074	-3.3	95	0.00
92		Benzo(g,h,i)perylene	1.065	1.071	-0.6	93	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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	107	0.00
2		1,4-Dioxane	40.000	39.995	0.0	102	-0.01
3		Pyridine	40.000	40.599	-1.5	104	-0.01
4		n-Nitrosodimethylamine	40.000	40.648	-1.6	101	-0.02
5	S	2-Fluorophenol	80.000	78.454	1.9	102	0.00
6		Aniline	40.000	39.821	0.4	100	0.00
7	S	Phenol-d6	80.000	77.693	2.9	100	0.00
8		2-Chlorophenol	40.000	39.189	2.0	101	0.00
9		Benzaldehyde	40.000	33.517	16.2	86	0.00
10	C	Phenol	40.000	39.128	2.2	100	0.00
11		bis(2-Chloroethyl)ether	40.000	39.416	1.5	104	0.00
12		1,3-Dichlorobenzene	40.000	39.269	1.8	101	0.00
13	C	1,4-Dichlorobenzene	40.000	38.910	2.7	101	0.00
14		1,2-Dichlorobenzene	40.000	38.926	2.7	101	0.00
15		Benzyl Alcohol	40.000	39.022	2.4	99	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.627	0.9	103	0.00
17		2-Methylphenol	40.000	39.682	0.8	102	0.00
18		Hexachloroethane	40.000	40.023	-0.1	101	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.110	2.2	103	0.00
20		3+4-Methylphenols	40.000	39.253	1.9	101	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	105	0.00
22		Acetophenone	40.000	39.363	1.6	101	0.00
23	S	Nitrobenzene-d5	80.000	90.443	-13.1	108	0.00
24		Nitrobenzene	40.000	44.470	-11.2	107	0.00
25		Isophorone	40.000	39.648	0.9	102	0.00
26	C	2-Nitrophenol	40.000	42.651	-6.6	114	0.00
27		2,4-Dimethylphenol	40.000	40.154	-0.4	102	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.593	1.0	102	0.00
29	C	2,4-Dichlorophenol	40.000	40.822	-2.1	102	0.00
30		1,2,4-Trichlorobenzene	40.000	40.364	-0.9	103	0.00
31		Naphthalene	40.000	39.585	1.0	102	0.00
32		Benzoic acid	40.000	41.902	-4.8	115	0.00
33		4-Chloroaniline	40.000	39.571	1.1	103	0.00
34	C	Hexachlorobutadiene	40.000	40.350	-0.9	103	0.00
35		Caprolactam	40.000	41.275	-3.2	104	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.219	-0.5	102	0.00
37		2-Methylnaphthalene	40.000	39.457	1.4	103	0.00
38		1-Methylnaphthalene	40.000	39.781	0.5	103	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.059	-0.1	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.144	-2.9	100	0.00
42	S	2,4,6-Tribromophenol	80.000	83.718	-4.6	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.726	-9.3	107	0.00
44		2,4,5-Trichlorophenol	40.000	40.130	-0.3	101	0.00
45	S	2-Fluorobiphenyl	80.000	78.599	1.8	103	0.00
46		1,1'-Biphenyl	40.000	40.123	-0.3	105	0.00
47		2-Chloronaphthalene	40.000	40.391	-1.0	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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	43.230	-8.1	114	0.00
49		Acenaphthylene	40.000	39.968	0.1	102	0.00
50		Dimethylphthalate	40.000	39.964	0.1	102	0.00
51		2,6-Dinitrotoluene	40.000	43.567	-8.9	112	0.00
52	C	Acenaphthene	40.000	40.342	-0.9	104	0.00
53		3-Nitroaniline	40.000	42.961	-7.4	109	0.00
54	P	2,4-Dinitrophenol	40.000	43.298	-8.2	116	0.00
55		Dibenzofuran	40.000	39.445	1.4	102	0.00
56	P	4-Nitrophenol	40.000	46.472	-16.2	105	0.00
57		2,4-Dinitrotoluene	40.000	44.508	-11.3	115	0.00
58		Fluorene	40.000	39.008	2.5	102	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.969	-4.9	103	0.00
60		Diethylphthalate	40.000	40.308	-0.8	102	0.00
61		4-Chlorophenyl-phenylether	40.000	39.265	1.8	102	0.00
62		4-Nitroaniline	40.000	48.328	-20.8	108	0.00
63		Azobenzene	40.000	39.906	0.2	102	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.398	-8.5	118	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.068	-0.2	101	0.00
67		4-Bromophenyl-phenylether	40.000	40.987	-2.5	103	0.00
68		Hexachlorobenzene	40.000	40.301	-0.8	101	0.00
69		Atrazine	40.000	40.970	-2.4	106	0.00
70	C	Pentachlorophenol	40.000	42.219	-5.5	100	0.00
71		Phenanthrene	40.000	39.734	0.7	101	0.00
72		Anthracene	40.000	40.131	-0.3	103	0.00
73		Carbazole	40.000	40.064	-0.2	101	0.00
74		Di-n-butylphthalate	40.000	40.466	-1.2	103	0.00
75	C	Fluoranthene	40.000	39.900	0.3	102	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	106	0.00
77		Benzidine	40.000	73.724	-84.3#	190	0.00
78		Pyrene	40.000	39.904	0.2	102	0.00
79	S	Terphenyl-d14	80.000	78.491	1.9	102	0.00
80		Butylbenzylphthalate	40.000	41.230	-3.1	103	0.00
81		Benzo(a)anthracene	40.000	38.165	4.6	102	0.00
82		3,3'-Dichlorobenzidine	40.000	38.082	4.8	97	0.00
83		Chrysene	40.000	38.806	3.0	99	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.802	-4.5	104	0.00
85	c	Di-n-octyl phthalate	40.000	40.976	-2.4	98	0.00
86	I	Perylene-d12	20.000	20.000	0.0	98	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	40.981	-2.5	95	0.00
88		Benzo(b)fluoranthene	40.000	39.402	1.5	101	0.00
89		Benzo(k)fluoranthene	40.000	40.609	-1.5	95	0.00
90	C	Benzo(a)pyrene	40.000	40.324	-0.8	96	0.00
91		Dibenzo(a,h)anthracene	40.000	41.338	-3.3	95	0.00
92		Benzo(g,h,i)perylene	40.000	40.214	-0.5	93	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141804.D
Acq On : 28 Feb 2025 10:03
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 28 11:12:05 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: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_P Calibration Date/Time: 02/27/2025 10:42

Lab File ID: BP024116.D Init. Calib. Date(s): 02/17/2025 02/17/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:28 16:14

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.282	1.418		10.6	
Benzaldehyde	0.752	0.753		0.1	
Phenol-d6	1.647	1.800		9.3	
Phenol	1.657	1.793		8.2	20.0
bis(2-Chloroethyl)ether	1.305	1.400		7.3	
2-Chlorophenol	1.357	1.452		7.0	
2-Methylphenol	1.010	1.094		8.3	
2,2-oxybis(1-Chloropropane)	1.267	1.438		13.5	
Acetophenone	0.514	0.542		5.4	
3+4-Methylphenols	1.373	1.476		7.5	
n-Nitroso-di-n-propylamine	0.886	0.980	0.050	10.6	
Nitrobenzene-d5	0.358	0.395		10.3	
Hexachloroethane	0.543	0.576		6.1	
Nitrobenzene	0.353	0.388		9.9	
Isophorone	0.586	0.623		6.3	
2-Nitrophenol	0.163	0.172		5.5	20.0
2,4-Dimethylphenol	0.213	0.227		6.6	
bis(2-Chloroethoxy)methane	0.425	0.451		6.1	
2,4-Dichlorophenol	0.291	0.308		5.8	20.0
Naphthalene	1.075	1.135		5.6	
4-Chloroaniline	0.379	0.400		5.5	
Hexachlorobutadiene	0.193	0.195		1.0	20.0
Caprolactam	0.088	0.089		1.1	
4-Chloro-3-methylphenol	0.299	0.318		6.4	20.0
2-Methylnaphthalene	0.715	0.735		2.8	
Hexachlorocyclopentadiene	0.229	0.239	0.050	4.4	
2,4,6-Trichlorophenol	0.375	0.388		3.5	20.0
2-Fluorobiphenyl	1.431	1.477		3.2	
2,4,5-Trichlorophenol	0.410	0.421		2.7	
1,1-Biphenyl	1.554	1.644		5.8	
2-Chloronaphthalene	1.175	1.226		4.3	
2-Nitroaniline	0.278	0.318		14.4	
Dimethylphthalate	1.411	1.432		1.5	
Acenaphthylene	1.731	1.848		6.8	
2,6-Dinitrotoluene	0.287	0.305		6.3	
3-Nitroaniline	0.307	0.333		8.5	
Acenaphthene	1.115	1.163		4.3	20.0
2,4-Dinitrophenol	0.153	0.150	0.050	-2.0	
4-Nitrophenol	0.265	0.284	0.050	7.2	

Form VII SV-1

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: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_P Calibration Date/Time: 02/27/2025 10:42

Lab File ID: BP024116.D Init. Calib. Date(s): 02/17/2025 02/17/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:28 16:14

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.811	1.860		2.7	
2,4-Dinitrotoluene	0.373	0.410		9.9	
Diethylphthalate	1.400	1.444		3.1	
4-Chlorophenyl-phenylether	0.696	0.711		2.2	
Fluorene	1.414	1.483		4.9	
4-Nitroaniline	0.318	0.361		13.5	
4,6-Dinitro-2-methylphenol	0.116	0.117		0.9	
n-Nitrosodiphenylamine	0.624	0.657		5.3	20.0
2,4,6-Tribromophenol	0.245	0.250		2.0	
4-Bromophenyl-phenylether	0.225	0.229		1.8	
Hexachlorobenzene	0.264	0.266		0.8	
Atrazine	0.160	0.165		3.1	
Pentachlorophenol	0.172	0.177		2.9	20.0
Phenanthrene	1.128	1.179		4.5	
Anthracene	1.081	1.156		6.9	
Carbazole	1.030	1.134		10.1	
Di-n-butylphthalate	1.201	1.298		8.1	
Fluoranthene	1.275	1.362		6.8	20.0
Pyrene	1.270	1.346		6.0	
Terphenyl-d14	1.011	1.053		4.2	
Butylbenzylphthalate	0.487	0.539		10.7	
3,3-Dichlorobenzidine	0.392	0.430		9.7	
Benzo(a)anthracene	1.254	1.335		6.5	
Chrysene	1.209	1.276		5.5	
Bis(2-ethylhexyl)phthalate	0.738	0.814		10.3	
Di-n-octyl phthalate	1.180	1.229		4.2	20.0
Benzo(b)fluoranthene	1.270	1.310		3.2	
Benzo(k)fluoranthene	1.236	1.279		3.5	
Benzo(a)pyrene	1.078	1.140		5.8	20.0
Indeno(1,2,3-cd)pyrene	1.423	1.540		8.2	
Dibenzo(a,h)anthracene	1.196	1.289		7.8	
Benzo(g,h,i)perylene	1.214	1.310		7.9	
1,2,4,5-Tetrachlorobenzene	0.615	0.630		2.4	
1,4-Dioxane	0.503	0.587		16.7	20.0
2,3,4,6-Tetrachlorophenol	0.356	0.364		2.2	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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	7.757	152	368424	20.000	ng		0.00
21) Naphthalene-d8	10.528	136	1409370	20.000	ng		0.00
39) Acenaphthene-d10	14.392	164	792946	20.000	ng		0.00
64) Phenanthrene-d10	17.192	188	1432339	20.000	ng		0.00
76) Chrysene-d12	21.645	240	1516790	20.000	ng		0.00
86) Perylene-d12	25.015	264	1638344	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.369	112	2089920	88.513	ng		0.00
7) Phenol-d6	6.934	99	2653216	87.429	ng		-0.01
23) Nitrobenzene-d5	8.904	82	2226783	88.146	ng		0.00
42) 2,4,6-Tribromophenol	15.898	330	791433	81.484	ng		0.00
45) 2-Fluorobiphenyl	12.998	172	4684298	82.586	ng		0.00
79) Terphenyl-d14	19.916	244	6387773	83.332	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.316	88	432659	46.712	ng		98
3) Pyridine	3.711	79	1119993	46.509	ng		99
4) n-Nitrosodimethylamine	3.616	42	383502	44.896	ng		98
6) Aniline	7.093	93	1207706	43.456	ng		99
8) 2-Chlorophenol	7.328	128	1070022	42.816	ng		97
9) Benzaldehyde	6.905	77	554761	40.040	ng		98
10) Phenol	6.963	94	1321253	43.297	ng		99
11) bis(2-Chloroethyl)ether	7.181	93	1031831	42.930	ng		97
12) 1,3-Dichlorobenzene	7.646	146	1175531	42.817	ng		99
13) 1,4-Dichlorobenzene	7.793	146	1187744	42.778	ng		99
14) 1,2-Dichlorobenzene	8.104	146	1135598	42.617	ng		100
15) Benzyl Alcohol	7.993	79	794732	42.783	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.275	45	1059342	45.403	ng		97
17) 2-Methylphenol	8.193	107	805978	43.341	ng		99
18) Hexachloroethane	8.822	117	424097	42.413	ng		97
19) n-Nitroso-di-n-propyla...	8.551	70	722412	44.274	ng		99
20) 3+4-Methylphenols	8.522	107	1087460	42.986	ng		97
22) Acetophenone	8.563	105	1527929	42.188	ng	#	99
24) Nitrobenzene	8.946	77	1093179	43.969	ng		99
25) Isophorone	9.463	82	1756744	42.524	ng		98
26) 2-Nitrophenol	9.651	139	484057	42.260	ng		99
27) 2,4-Dimethylphenol	9.710	122	639241	42.515	ng		99
28) bis(2-Chloroethoxy)met...	9.946	93	1272597	42.523	ng		100
29) 2,4-Dichlorophenol	10.181	162	869391	42.370	ng		99
30) 1,2,4-Trichlorobenzene	10.393	180	975786	41.506	ng		99
31) Naphthalene	10.581	128	3199649	42.222	ng		100
32) Benzoic acid	9.846	122	542900	36.533	ng		99
33) 4-Chloroaniline	10.693	127	1126950	42.213	ng		99
34) Hexachlorobutadiene	10.869	225	549138	40.327	ng		99
35) Caprolactam	11.475	113	251435	37.729	ng		92
36) 4-Chloro-3-methylphenol	11.822	107	895328	42.445	ng		97
37) 2-Methylnaphthalene	12.192	142	2072779	41.152	ng		100
38) 1-Methylnaphthalene	12.416	142	2016959	41.163	ng		99
40) 1,2,4,5-Tetrachloroben...	12.569	216	999497	41.024	ng		99
41) Hexachlorocyclopentadiene	12.551	237	379623	41.873	ng		99
43) 2,4,6-Trichlorophenol	12.816	196	615789	41.444	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

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	12.887	196	667837	41.099	ng		99
46) 1,1'-Biphenyl	13.216	154	2606431	42.301	ng		99
47) 2-Chloronaphthalene	13.257	162	1944479	41.746	ng		100
48) 2-Nitroaniline	13.463	65	505101	45.906	ng		99
49) Acenaphthylene	14.110	152	2930383	42.701	ng		100
50) Dimethylphthalate	13.845	163	2270506	40.593	ng		100
51) 2,6-Dinitrotoluene	13.957	165	483019	42.393	ng		98
52) Acenaphthene	14.457	154	1844781	41.744	ng		100
53) 3-Nitroaniline	14.298	138	527882	43.418	ng		97
54) 2,4-Dinitrophenol	14.504	184	238114	36.396	ng		95
55) Dibenzofuran	14.798	168	2949754	41.088	ng		99
56) 4-Nitrophenol	14.616	139	449827	42.831	ng		97
57) 2,4-Dinitrotoluene	14.763	165	650171	43.928	ng		98
58) Fluorene	15.457	166	2352462	41.958	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.028	232	576865	40.917	ng		100
60) Diethylphthalate	15.228	149	2289864	41.241	ng		98
61) 4-Chlorophenyl-phenyle...	15.451	204	1127909	40.871	ng		99
62) 4-Nitroaniline	15.475	138	572035	40.307	ng		96
63) Azobenzene	15.751	77	2308147	44.362	ng		96
65) 4,6-Dinitro-2-methylph...	15.528	198	336597	38.013	ng		99
66) n-Nitrosodiphenylamine	15.675	169	1880946	42.110	ng		100
67) 4-Bromophenyl-phenylether	16.363	248	656484	40.815	ng		98
68) Hexachlorobenzene	16.480	284	763356	40.333	ng		98
69) Atrazine	16.645	200	472541	41.224	ng		98
70) Pentachlorophenol	16.839	266	506575	41.211	ng		99
71) Phenanthrene	17.233	178	3378021	41.831	ng		100
72) Anthracene	17.327	178	3311810	42.796	ng		99
73) Carbazole	17.610	167	3247266	44.042	ng		100
74) Di-n-butylphthalate	18.198	149	3718462	43.222	ng		99
75) Fluoranthene	19.322	202	3900785	42.707	ng		100
77) Benzidine	19.522	184	1103936	59.727	ng		99
78) Pyrene	19.698	202	4082612	42.375	ng		100
80) Butylbenzylphthalate	20.645	149	1635686	44.305	ng		97
81) Benzo(a)anthracene	21.627	228	4050791	42.590	ng		100
82) 3,3'-Dichlorobenzidine	21.545	252	1304030	43.877	ng		100
83) Chrysene	21.692	228	3870222	42.199	ng		99
84) Bis(2-ethylhexyl)phtha...	21.568	149	2469171	44.104	ng		100
85) Di-n-octyl phthalate	22.863	149	3729407	41.675	ng		100
87) Indeno(1,2,3-cd)pyrene	28.868	276	5046045	43.294	ng	#	94
88) Benzo(b)fluoranthene	23.957	252	4293222	41.265	ng		99
89) Benzo(k)fluoranthene	24.033	252	4191222	41.388	ng		99
90) Benzo(a)pyrene	24.874	252	3735472	42.307	ng		99
91) Dibenzo(a,h)anthracene	28.945	278	4223029	43.092	ng		99
92) Benzo(g,h,i)perylene	30.080	276	4292490m	43.164	ng		

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

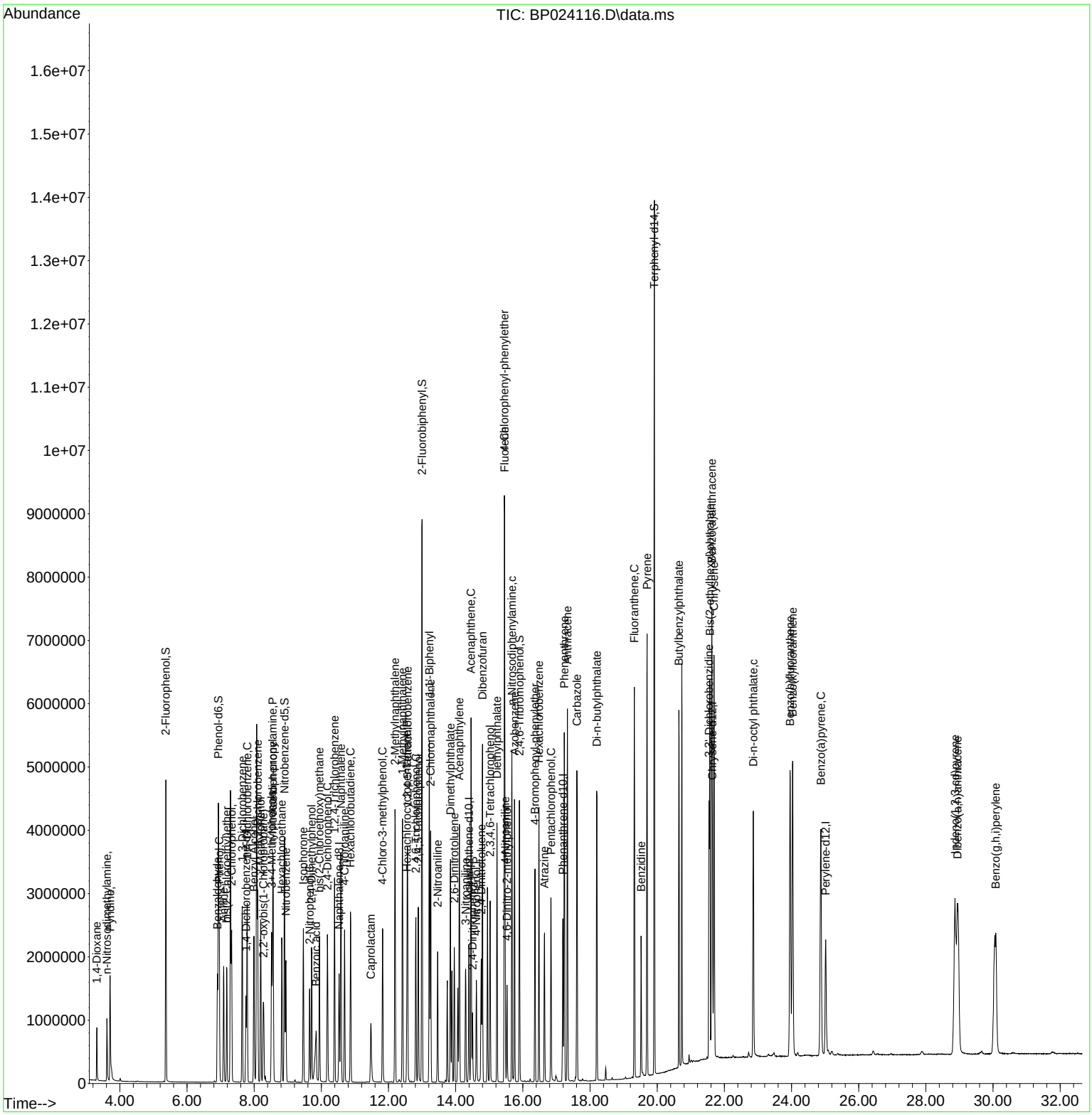
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

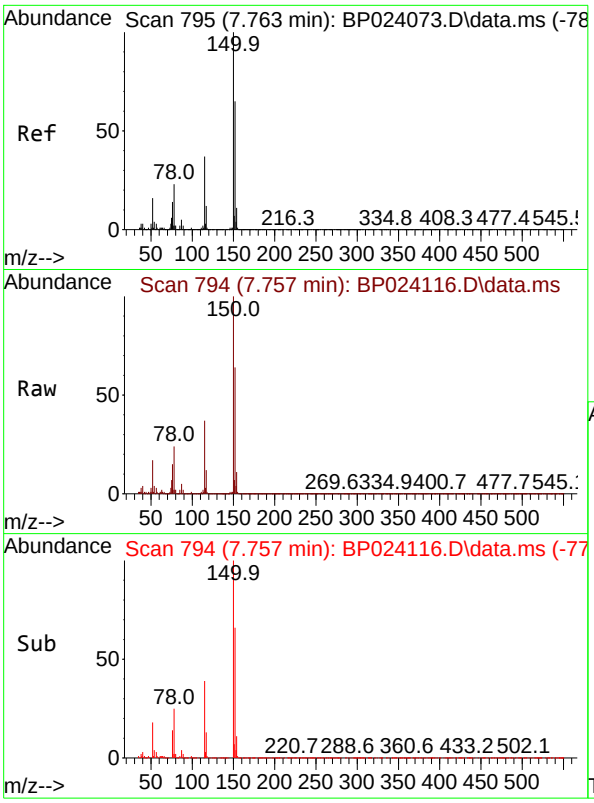
Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

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

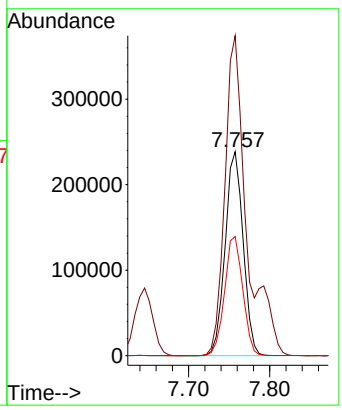




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:152 Resp: 36842

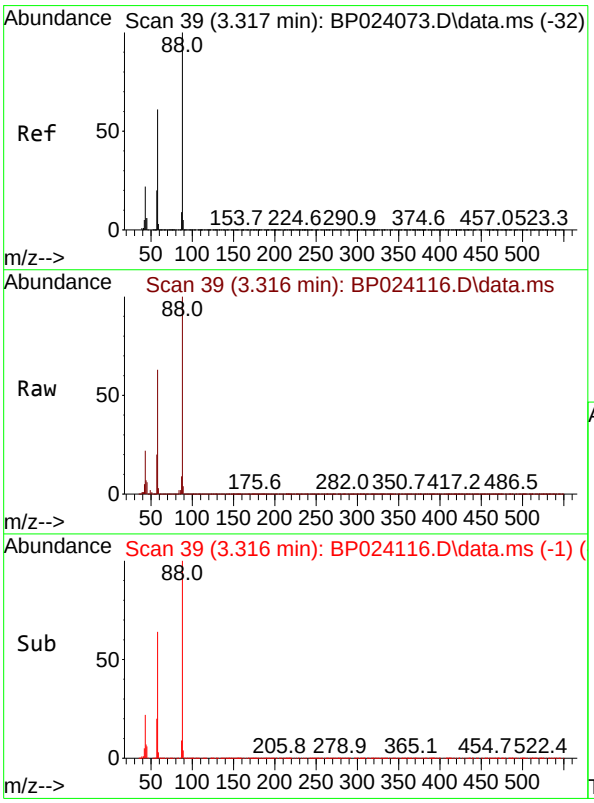
Ion	Ratio	Lower	Upper
152	100		
150	156.8	122.4	183.6
115	58.5	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

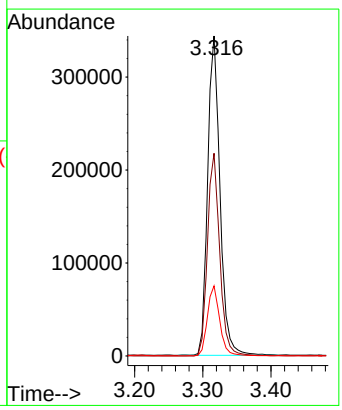
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

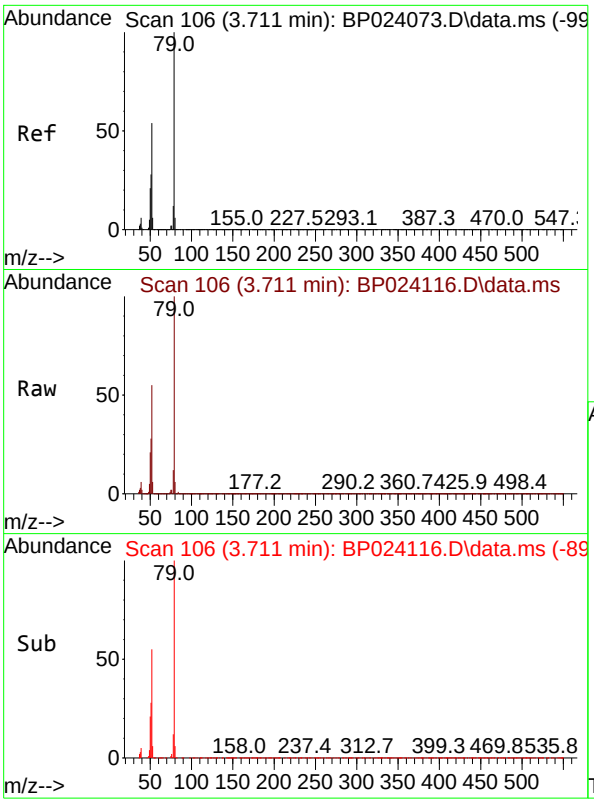


#2
1,4-Dioxane
Concen: 46.712 ng
RT: 3.316 min Scan# 39
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 88 Resp: 432659

Ion	Ratio	Lower	Upper
88	100		
58	63.0	49.1	73.7
43	21.9	18.0	27.0

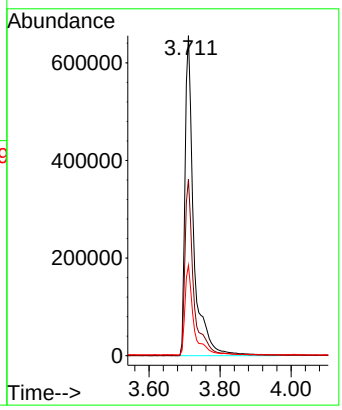




#3
Pyridine
Concen: 46.509 ng
RT: 3.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 79 Resp: 111999

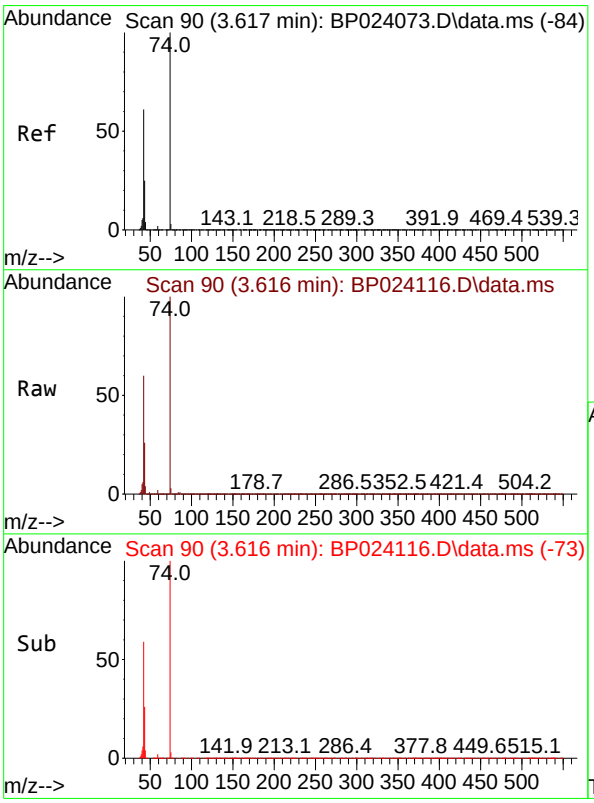
Ion	Ratio	Lower	Upper
79	100		
52	55.2	43.5	65.3
51	28.2	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

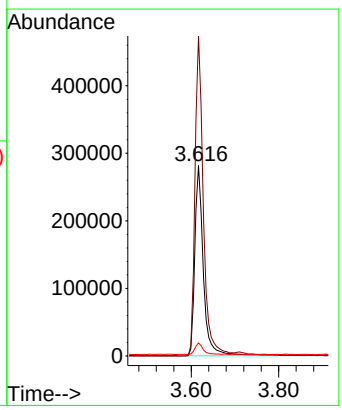
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

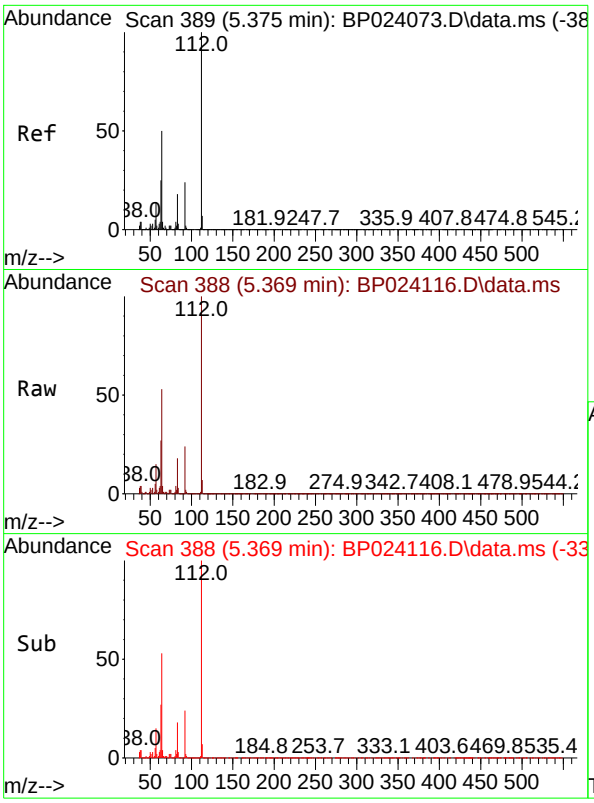


#4
n-Nitrosodimethylamine
Concen: 44.896 ng
RT: 3.616 min Scan# 90
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 42 Resp: 383502

Ion	Ratio	Lower	Upper
42	100		
74	168.0	132.0	198.0
44	6.8	5.3	7.9

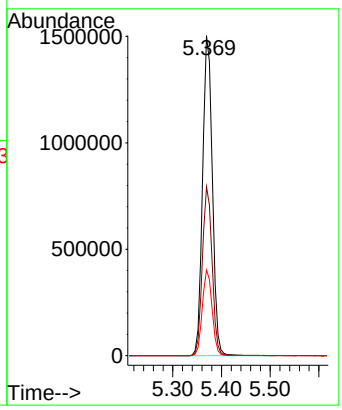




#5
2-Fluorophenol
Concen: 88.513 ng
RT: 5.369 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:112 Resp: 208992

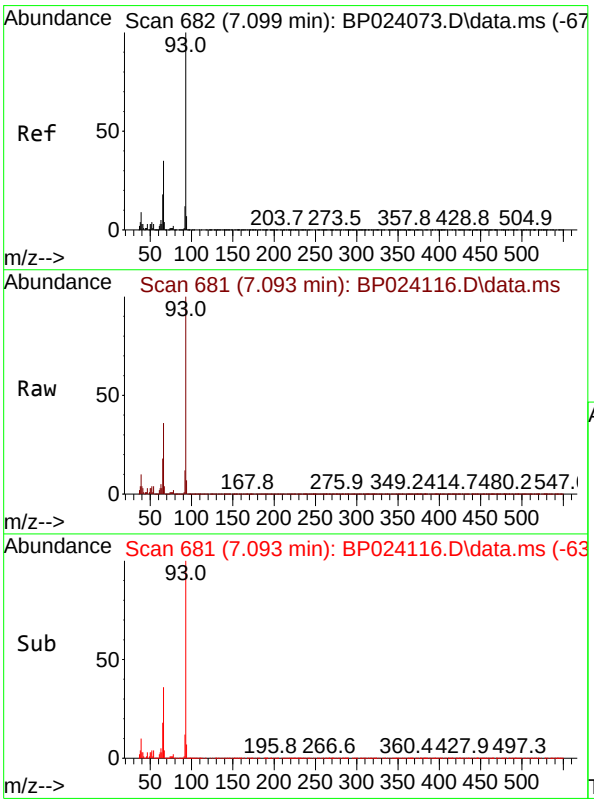
Ion	Ratio	Lower	Upper
112	100		
64	52.7	39.6	59.4
63	26.7	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

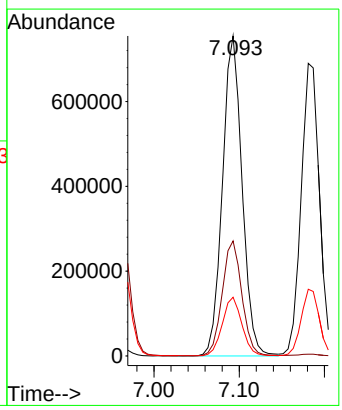
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

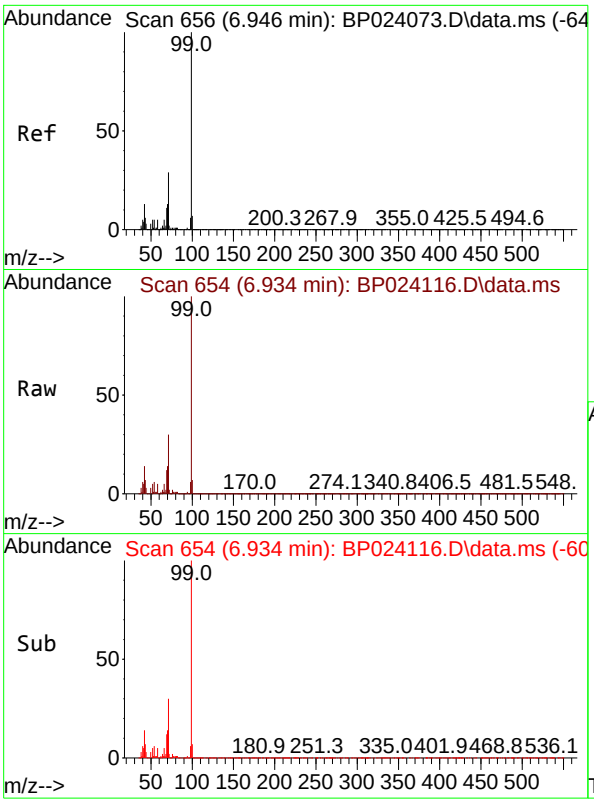


#6
Aniline
Concen: 43.456 ng
RT: 7.093 min Scan# 681
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 93 Resp: 1207706

Ion	Ratio	Lower	Upper
93	100		
66	36.0	28.2	42.4
65	18.4	14.1	21.1

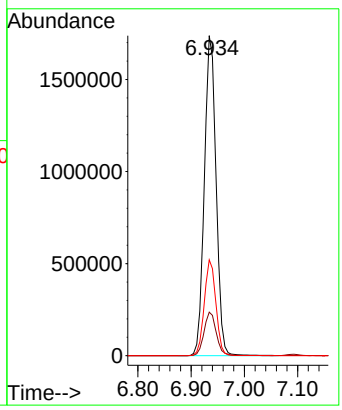




#7
Phenol-d6
Concen: 87.429 ng
RT: 6.934 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 99 Resp: 265321

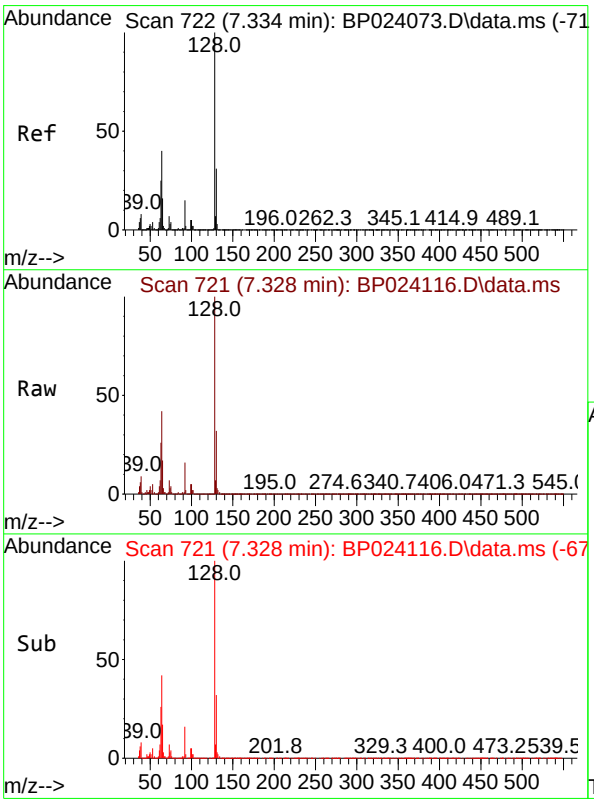
Ion	Ratio	Lower	Upper
99	100		
42	13.6	10.3	15.5
71	29.9	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

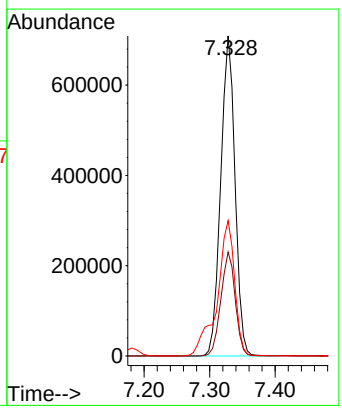
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

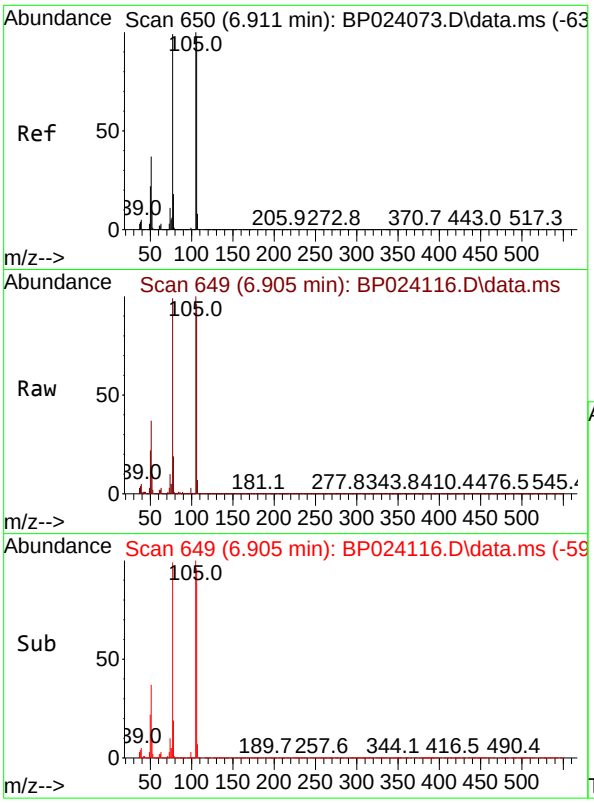


#8
2-Chlorophenol
Concen: 42.816 ng
RT: 7.328 min Scan# 721
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:128 Resp: 1070022

Ion	Ratio	Lower	Upper
128	100		
130	32.5	11.5	51.5
64	42.3	19.8	59.8

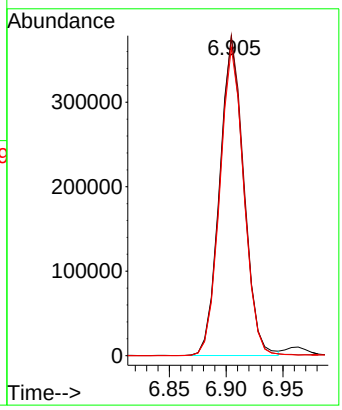




#9
Benzaldehyde
Concen: 40.040 ng
RT: 6.905 min Scan# 64
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 77 Resp: 55476

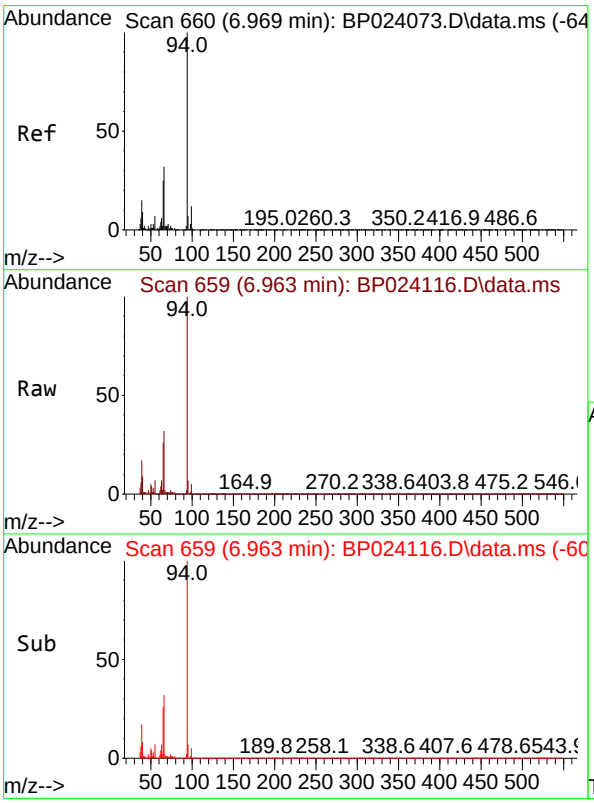
Ion	Ratio	Lower	Upper
77	100		
105	100.5	81.4	121.4
106	96.8	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

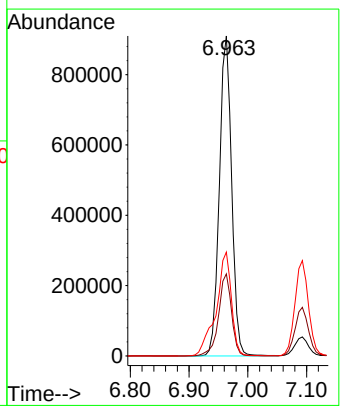
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

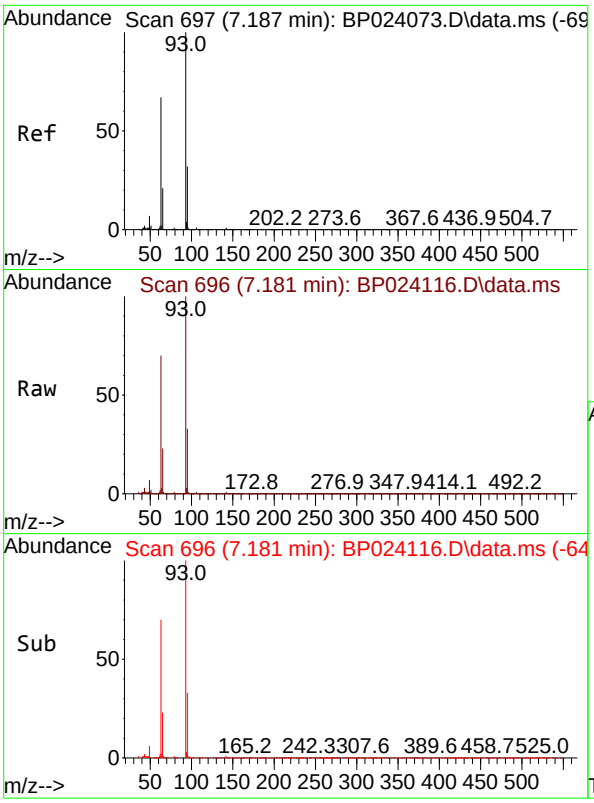


#10
Phenol
Concen: 43.297 ng
RT: 6.963 min Scan# 659
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 94 Resp: 1321253

Ion	Ratio	Lower	Upper
94	100		
65	25.6	5.0	45.0
66	32.4	11.6	51.6

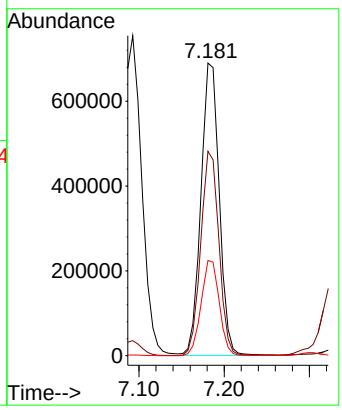




#11
bis(2-Chloroethyl)ether
Concen: 42.930 ng
RT: 7.181 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 93 Resp: 103183

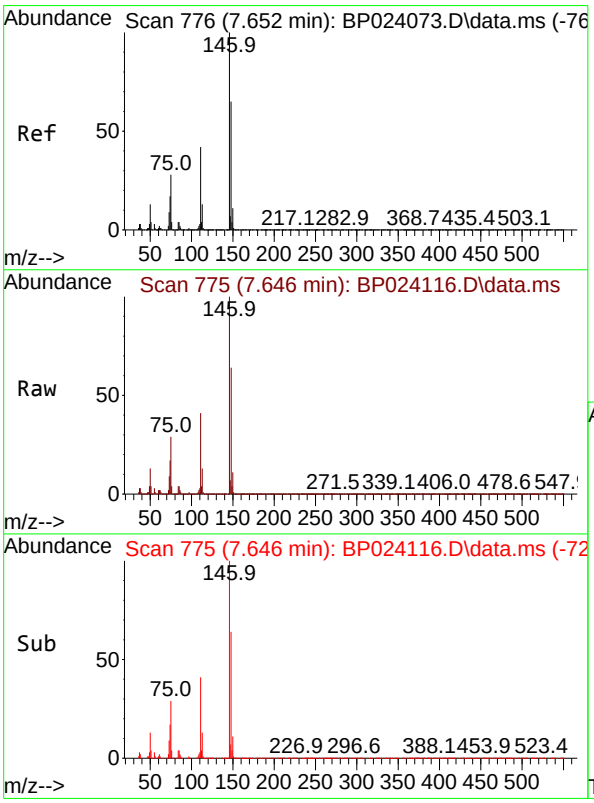
Ion	Ratio	Lower	Upper
93	100		
63	69.8	46.5	86.5
95	32.6	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

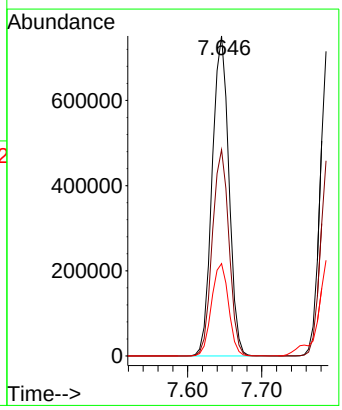
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

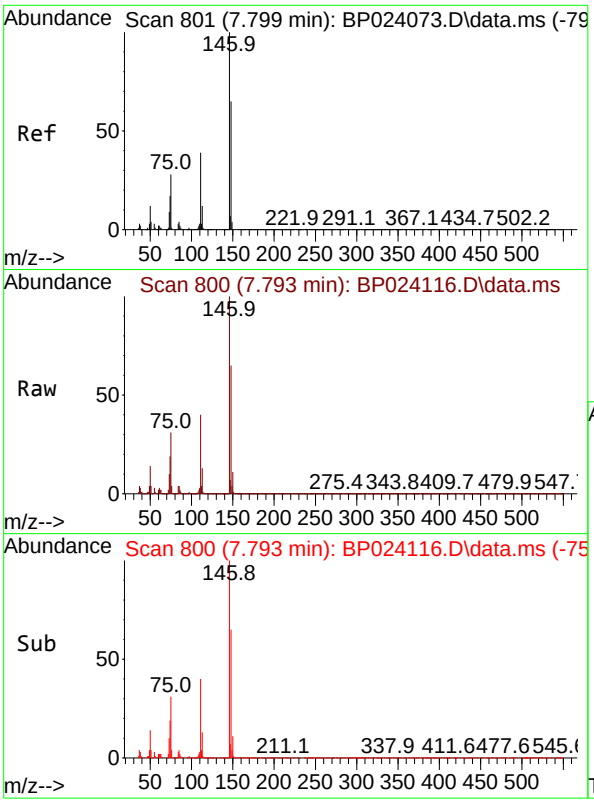


#12
1,3-Dichlorobenzene
Concen: 42.817 ng
RT: 7.646 min Scan# 775
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:146 Resp: 1175531

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.8	77.8
75	28.9	22.6	33.8

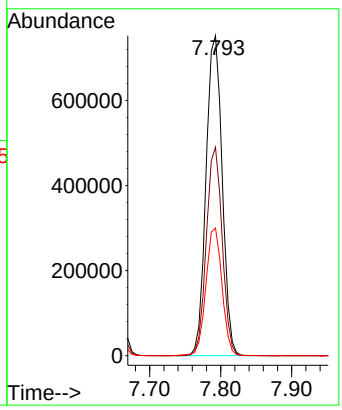




#13
1,4-Dichlorobenzene
Concen: 42.778 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:146 Resp: 118774

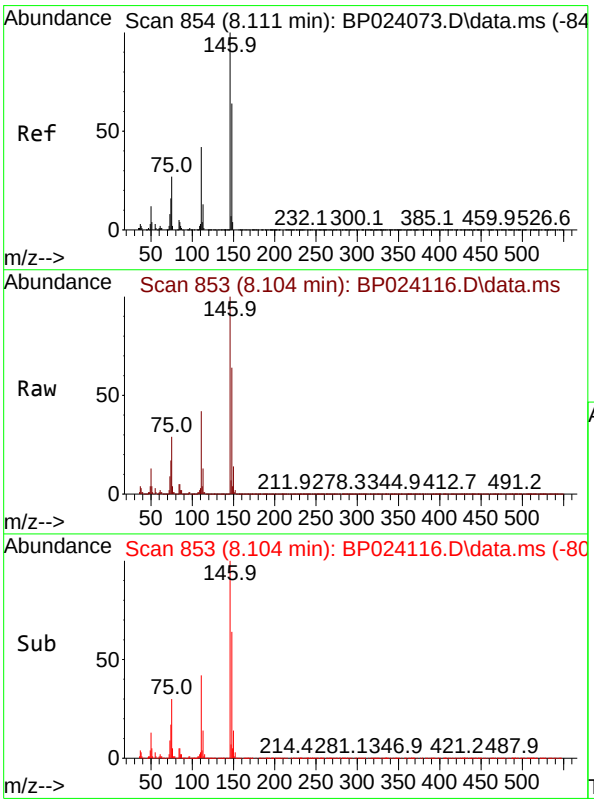
Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.6	77.4
111	39.9	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

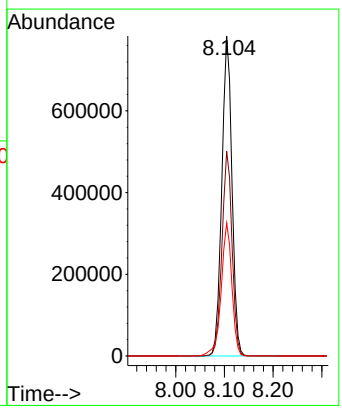
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

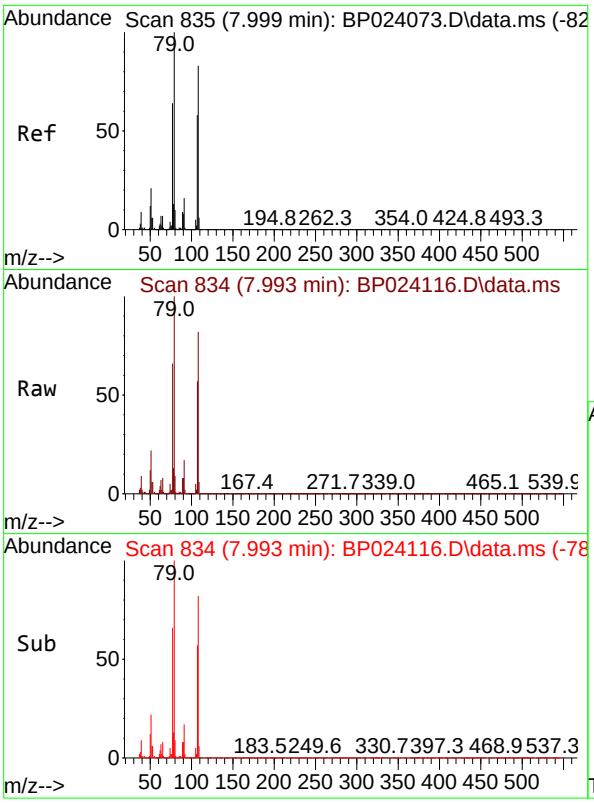


#14
1,2-Dichlorobenzene
Concen: 42.617 ng
RT: 8.104 min Scan# 853
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:146 Resp: 1135598

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	41.6	33.4	50.0





#15
Benzyl Alcohol
Concen: 42.783 ng
RT: 7.993 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

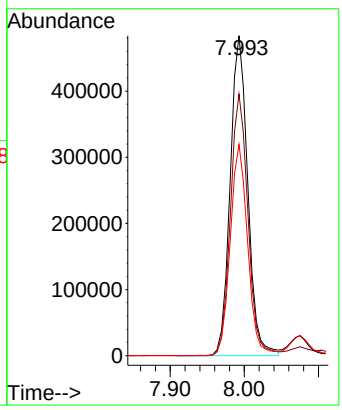
Tgt Ion: 79 Resp: 79473

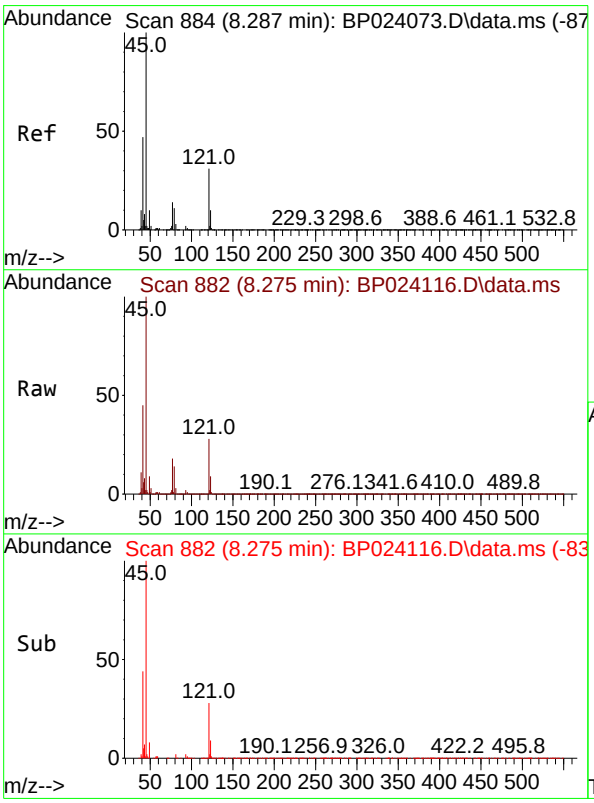
Ion	Ratio	Lower	Upper
79	100		
108	81.7	66.4	99.6
77	66.0	51.3	76.9

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

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

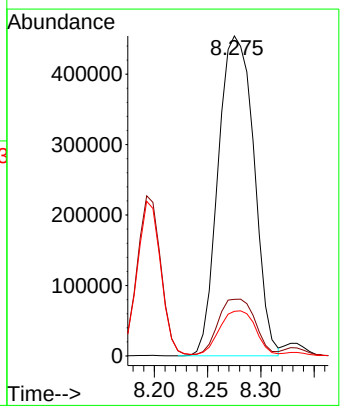


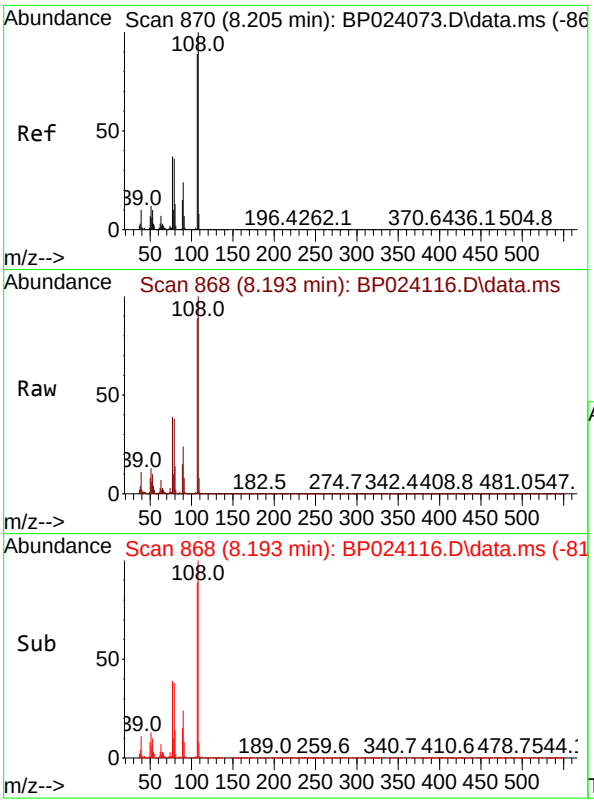


#16
2,2'-oxybis(1-Chloropropane)
Concen: 45.403 ng
RT: 8.275 min Scan# 882
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 45 Resp: 1059342

Ion	Ratio	Lower	Upper
45	100		
77	17.7	0.0	38.8
79	14.0	0.0	35.4

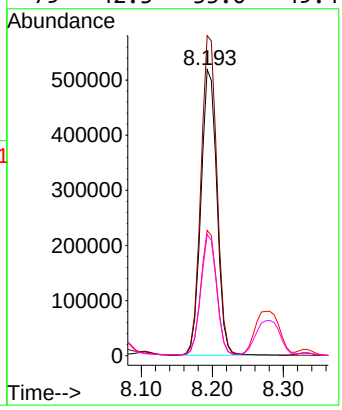




#17
2-Methylphenol
Concen: 43.341 ng
RT: 8.193 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:107 Resp: 80597

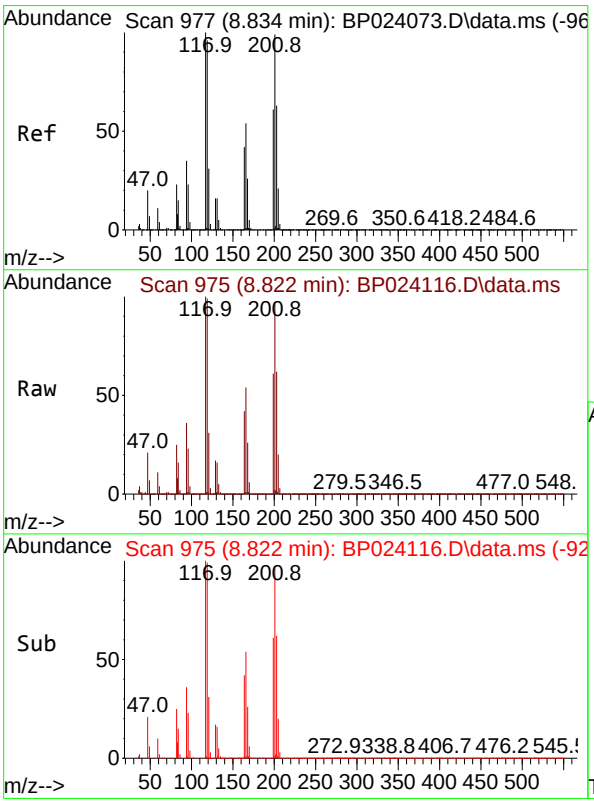
Ion	Ratio	Lower	Upper
107	100		
108	111.9	90.0	135.0
77	43.8	33.8	50.6
79	42.3	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

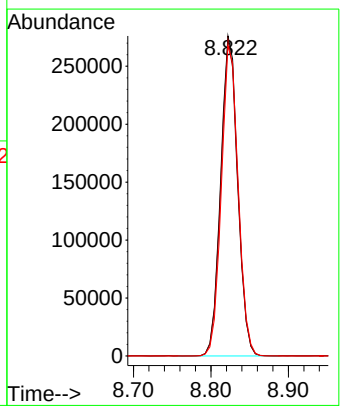
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

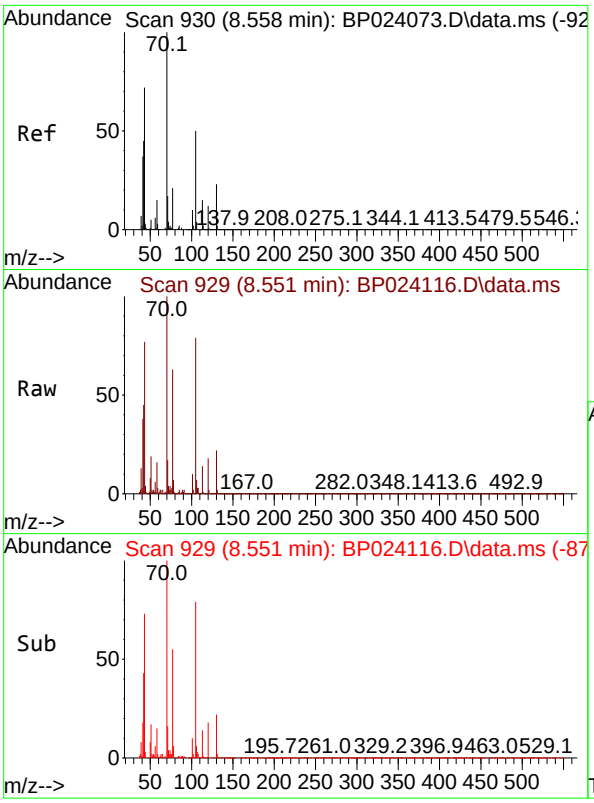


#18
Hexachloroethane
Concen: 42.413 ng
RT: 8.822 min Scan# 975
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:117 Resp: 424097

Ion	Ratio	Lower	Upper
117	100		
119	98.9	76.9	115.3
201	96.9	79.4	119.2

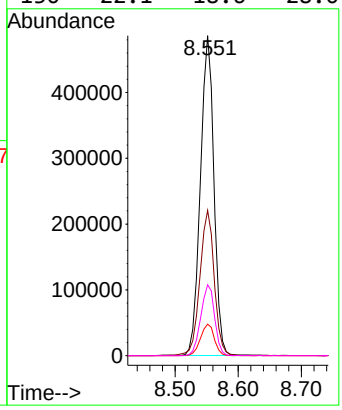




#19
n-Nitroso-di-n-propylamine
Concen: 44.274 ng
RT: 8.551 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 70 Resp: 72241

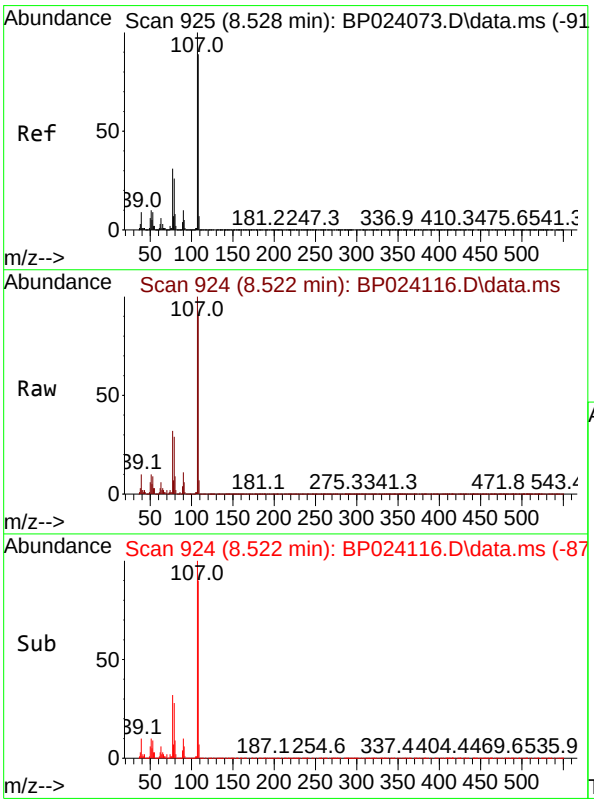
Ion	Ratio	Lower	Upper
70	100		
42	45.4	36.6	54.8
101	9.9	8.2	12.2
130	22.1	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

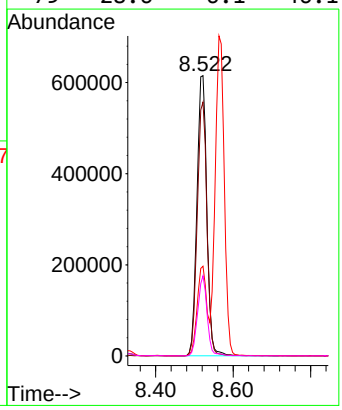
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

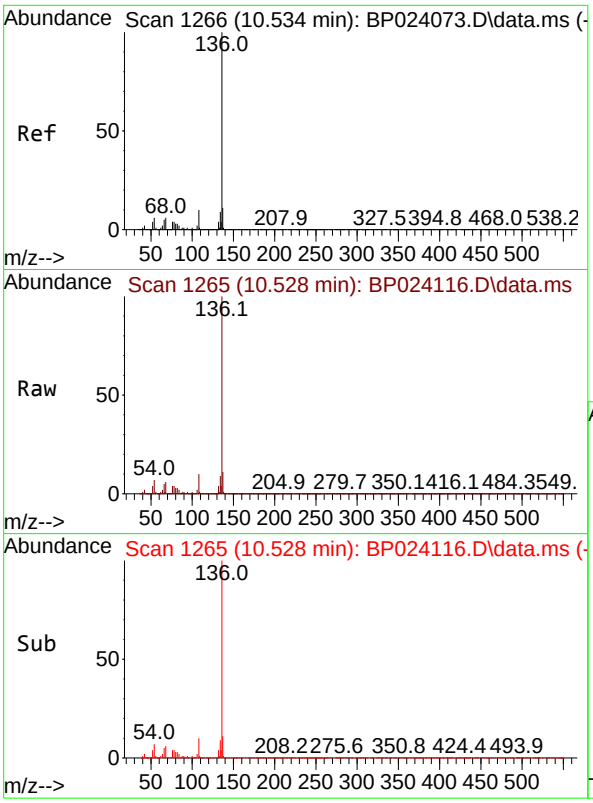


#20
3+4-Methylphenols
Concen: 42.986 ng
RT: 8.522 min Scan# 924
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:107 Resp: 1087460

Ion	Ratio	Lower	Upper
107	100		
108	90.5	68.5	108.5
77	32.0	10.7	50.7
79	28.6	6.1	46.1

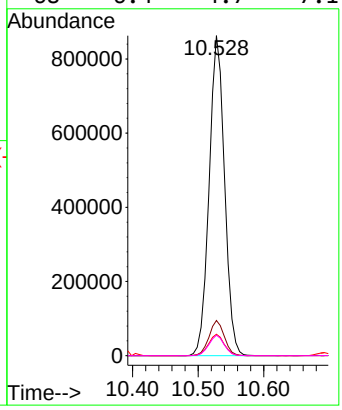




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.528 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:136 Resp: 140937

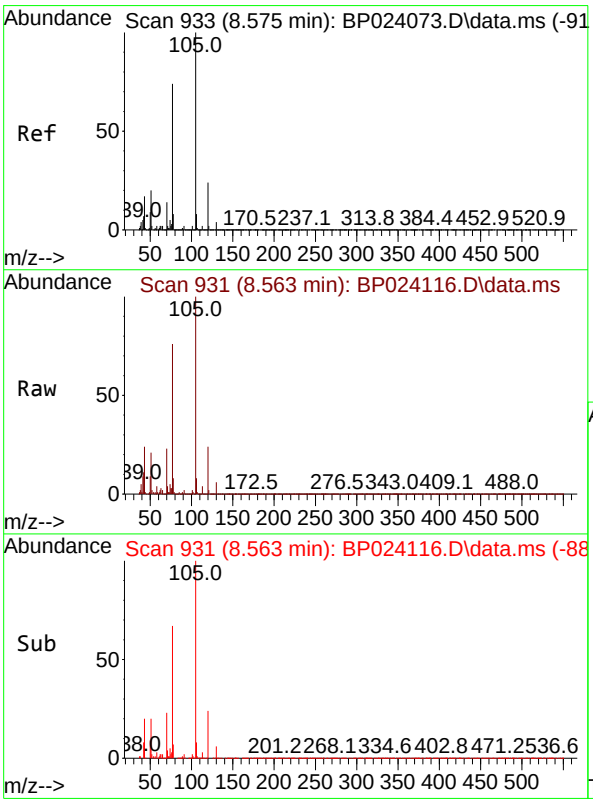
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	6.7	4.9	7.3
68	6.4	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

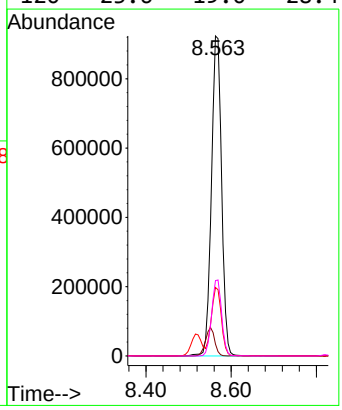
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

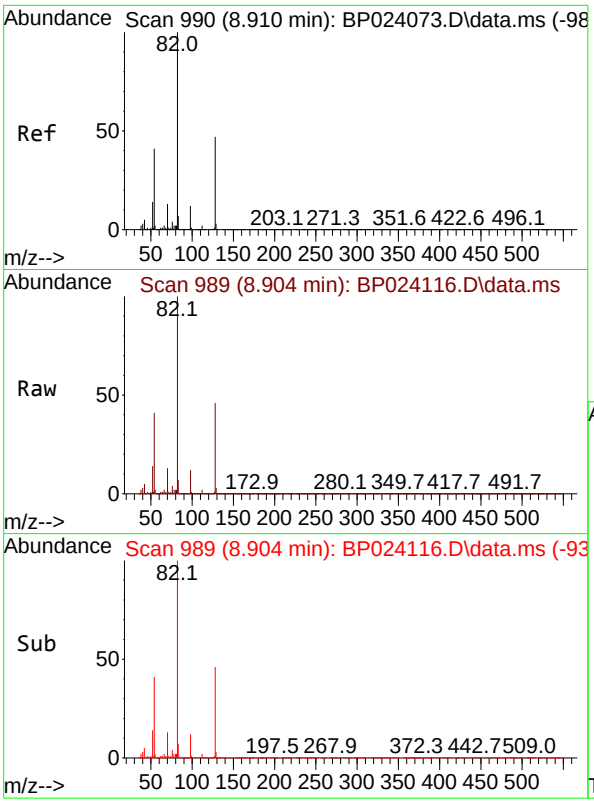


#22
Acetophenone
Concen: 42.188 ng
RT: 8.563 min Scan# 931
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:105 Resp: 1527929

Ion	Ratio	Lower	Upper
105	100		
71	3.7	1.9	2.9#
51	21.4	16.3	24.5
120	23.6	19.0	28.4

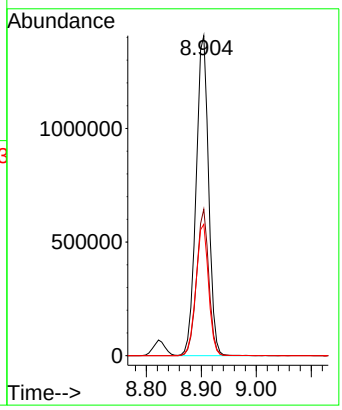




#23
Nitrobenzene-d5
Concen: 88.146 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 82 Resp: 222678

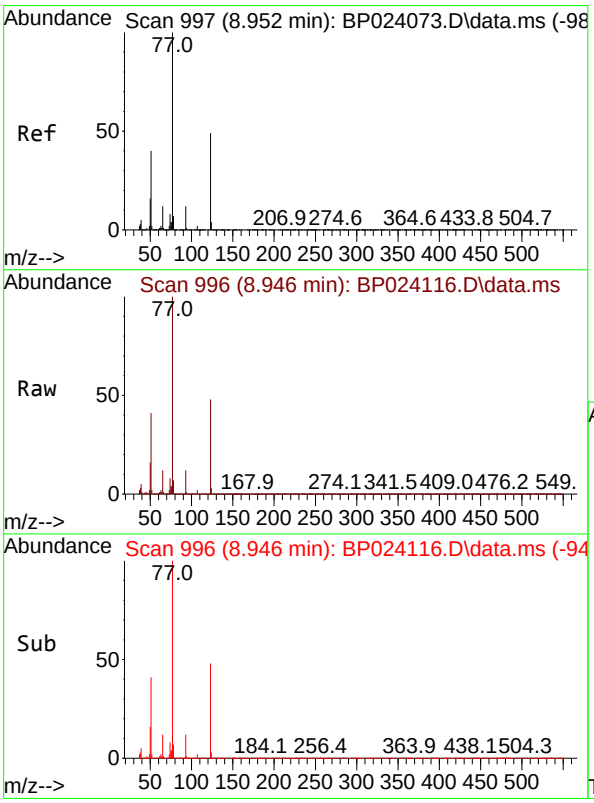
Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.4	56.2
54	41.0	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

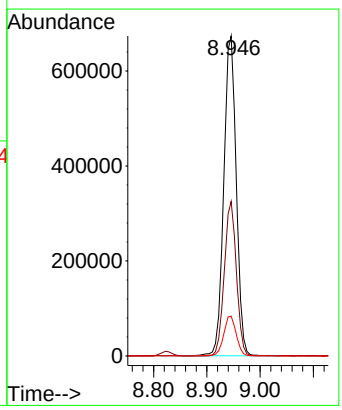
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

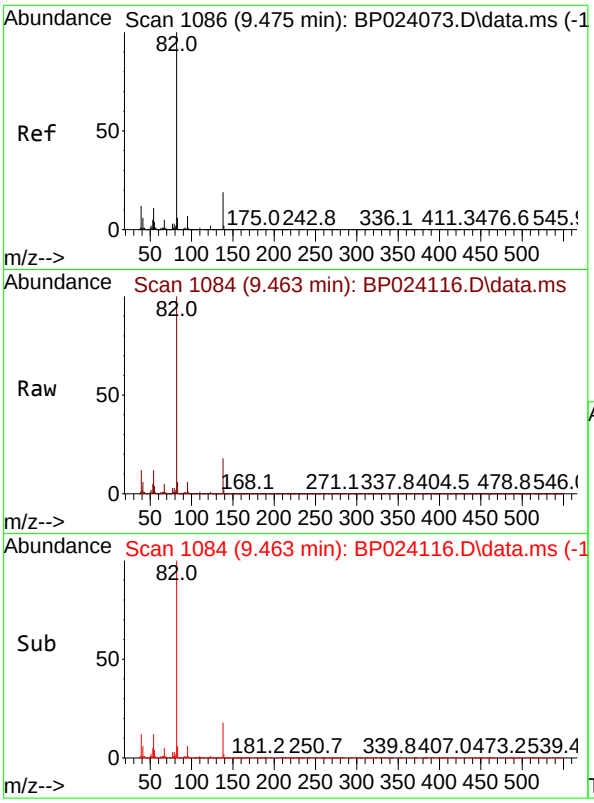


#24
Nitrobenzene
Concen: 43.969 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 77 Resp: 1093179

Ion	Ratio	Lower	Upper
77	100		
123	48.3	39.4	59.2
65	12.4	9.9	14.9

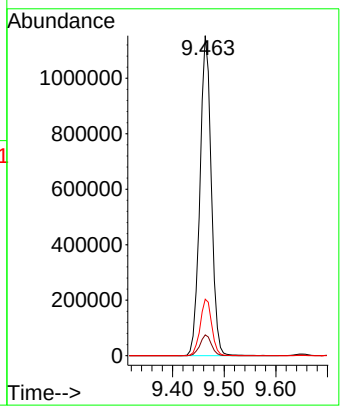




#25
Isophorone
Concen: 42.524 ng
RT: 9.463 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 82 Resp: 175674

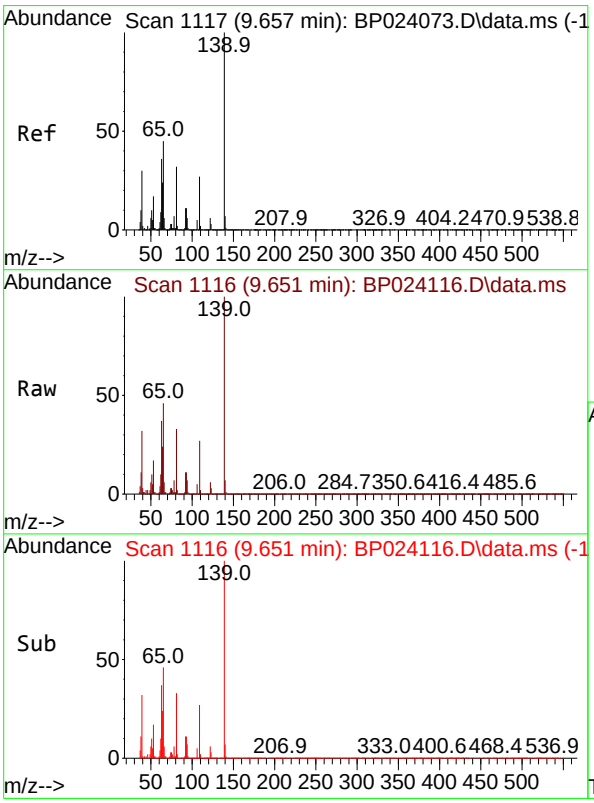
Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.4	8.0
138	17.7	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

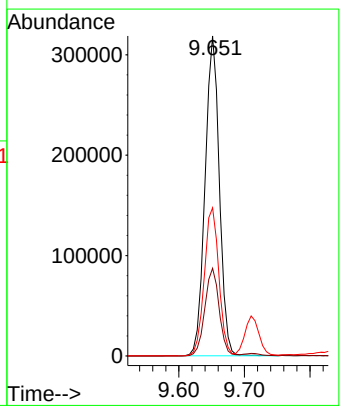
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

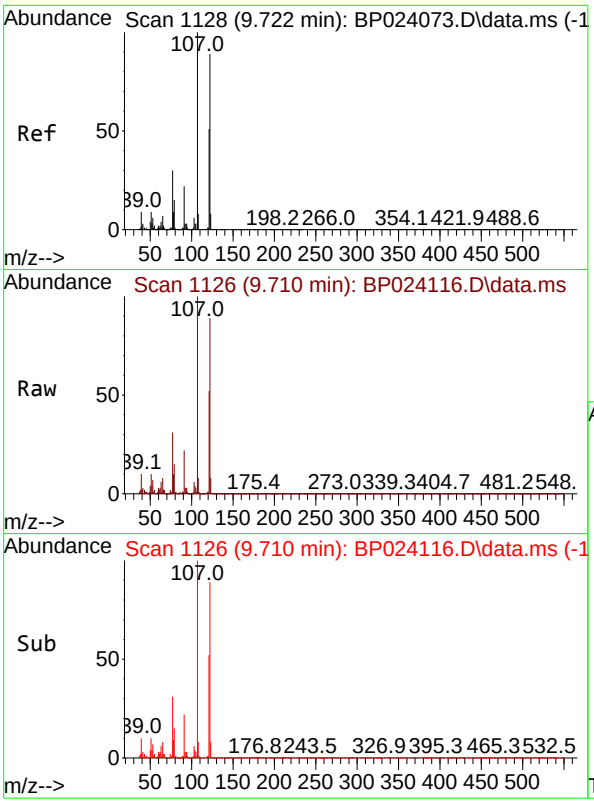


#26
2-Nitrophenol
Concen: 42.260 ng
RT: 9.651 min Scan# 1116
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:139 Resp: 484057

Ion	Ratio	Lower	Upper
139	100		
109	27.4	21.7	32.5
65	46.3	36.1	54.1





#27
2,4-Dimethylphenol
Concen: 42.515 ng
RT: 9.710 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

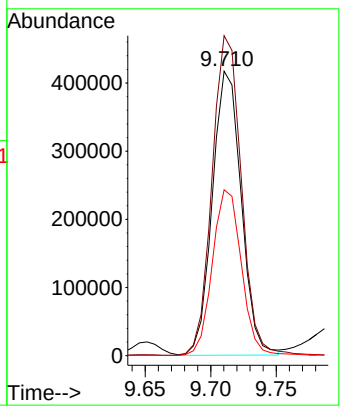
Tgt Ion:122 Resp: 63924

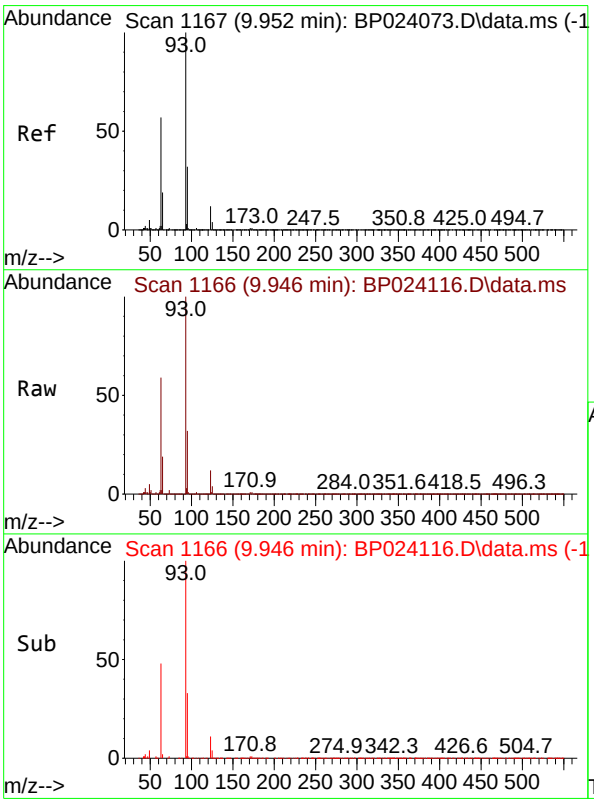
Ion	Ratio	Lower	Upper
122	100		
107	112.5	89.8	134.8
121	58.3	45.9	68.9

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

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

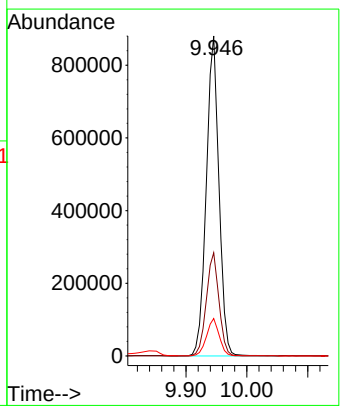


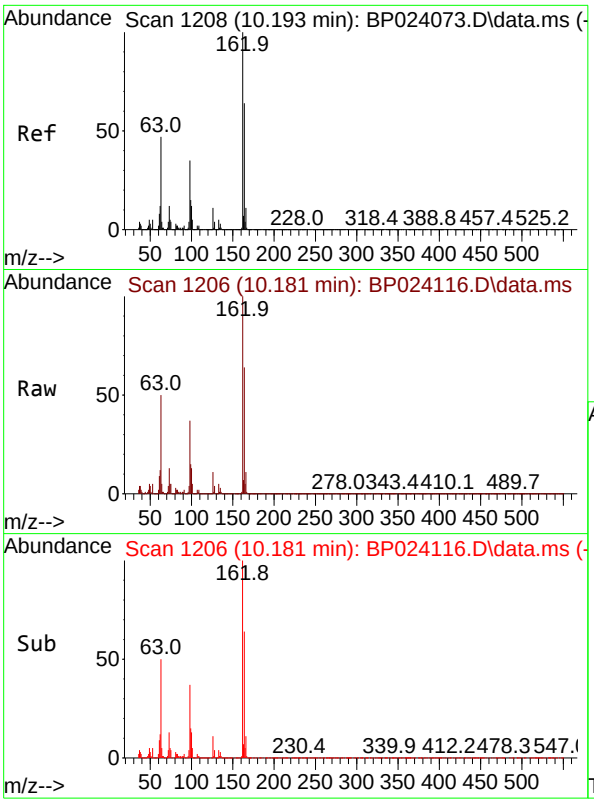


#28
bis(2-Chloroethoxy)methane
Concen: 42.523 ng
RT: 9.946 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 93 Resp: 1272597

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.9	38.9
123	11.7	9.7	14.5





#29
2,4-Dichlorophenol
Concen: 42.370 ng
RT: 10.181 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

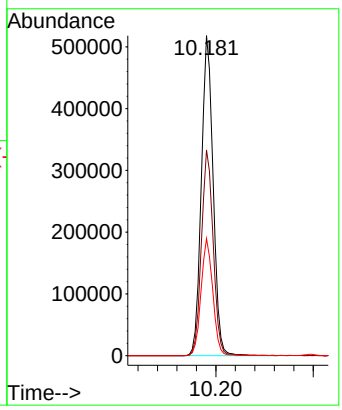
Tgt Ion:162 Resp: 86939

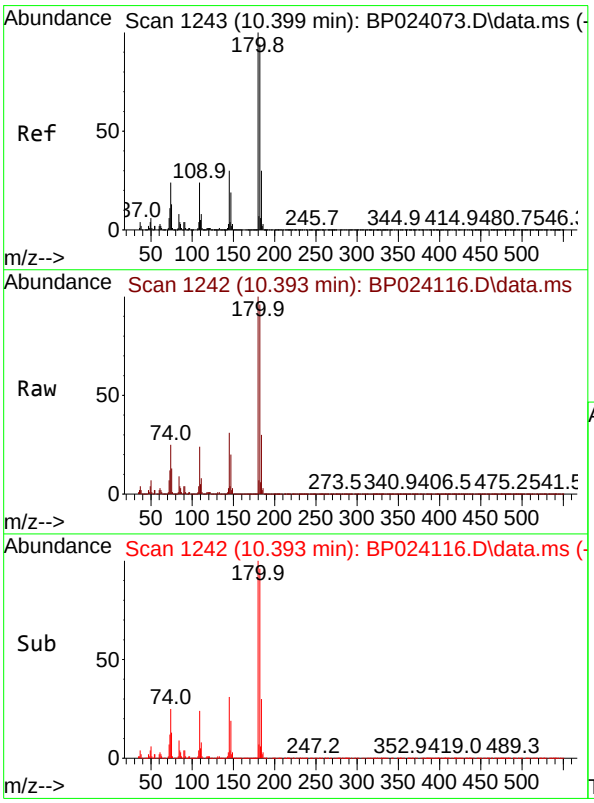
Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.5	84.5
98	36.6	15.3	55.3

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

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

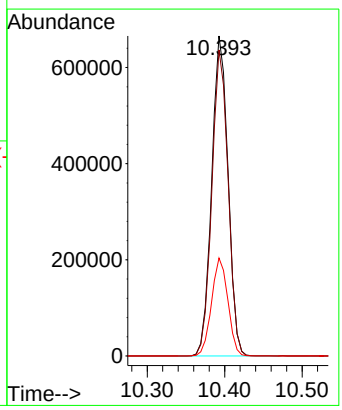


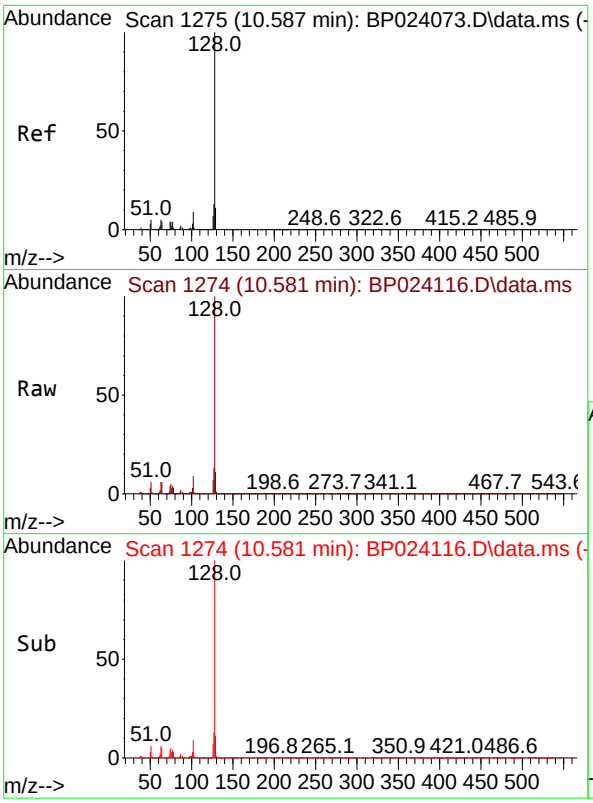


#30
1,2,4-Trichlorobenzene
Concen: 41.506 ng
RT: 10.393 min Scan# 1242
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:180 Resp: 975786

Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.4	113.2
145	30.6	24.0	36.0

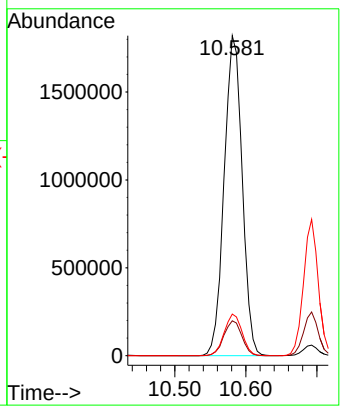




#31
Naphthalene
Concen: 42.222 ng
RT: 10.581 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:128 Resp: 319964

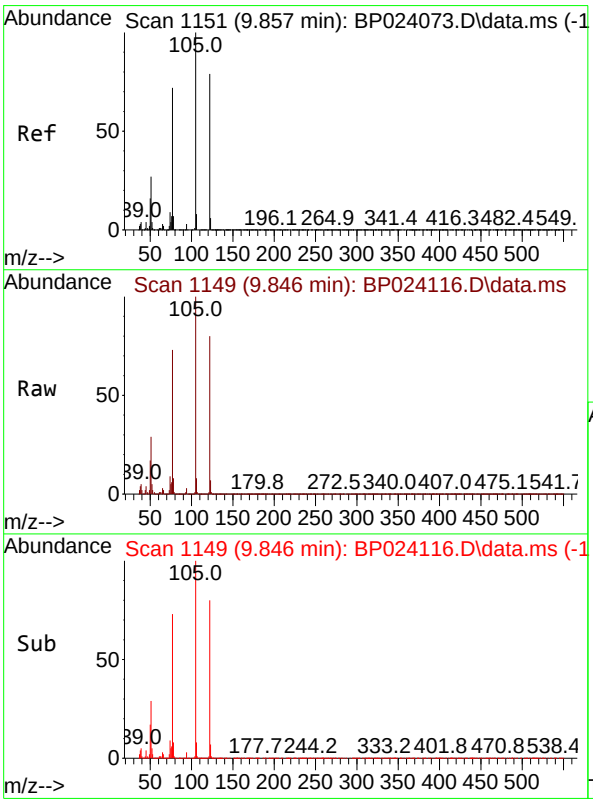
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	13.0	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

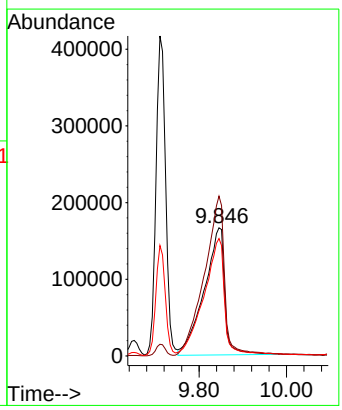
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

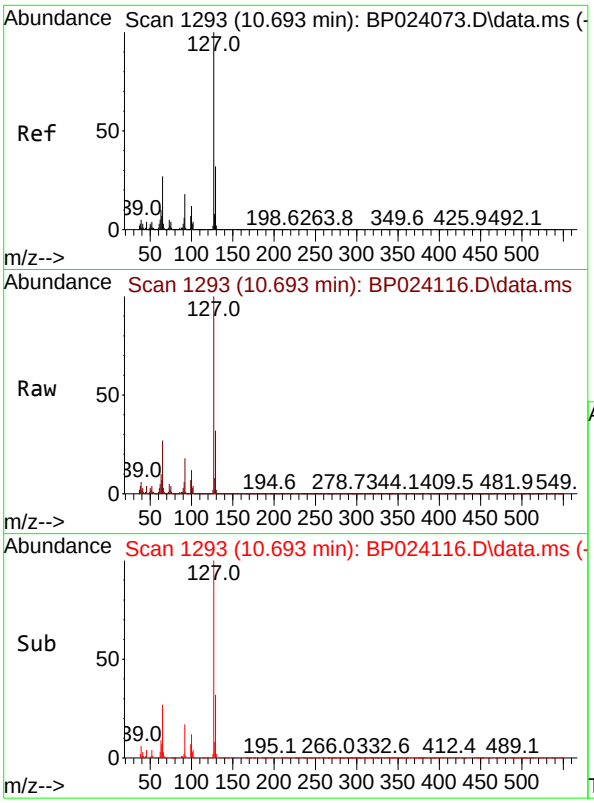


#32
Benzoic acid
Concen: 36.533 ng
RT: 9.846 min Scan# 1149
Delta R.T. -0.011 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:122 Resp: 542900

Ion	Ratio	Lower	Upper
122	100		
105	124.8	103.7	143.7
77	91.6	69.9	109.9

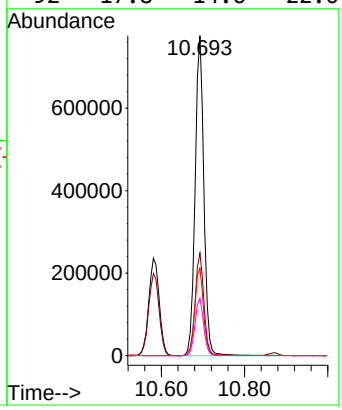




#33
4-Chloroaniline
Concen: 42.213 ng
RT: 10.693 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:127 Resp: 112695

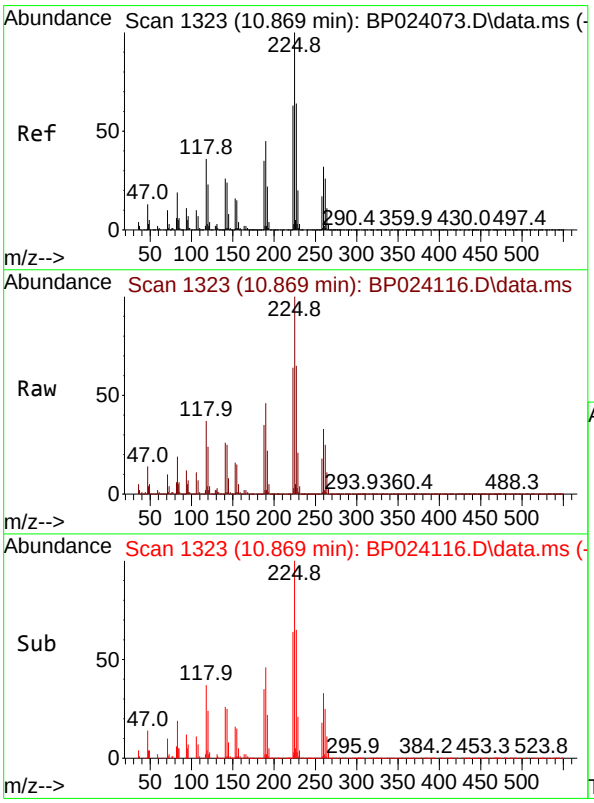
Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.4	38.0
65	27.3	21.3	31.9
92	17.8	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

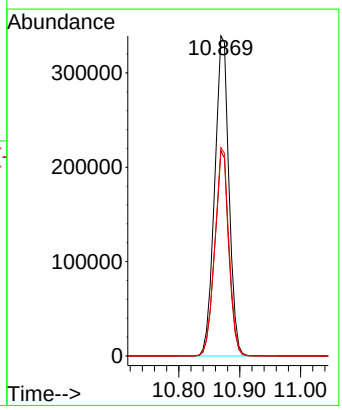
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

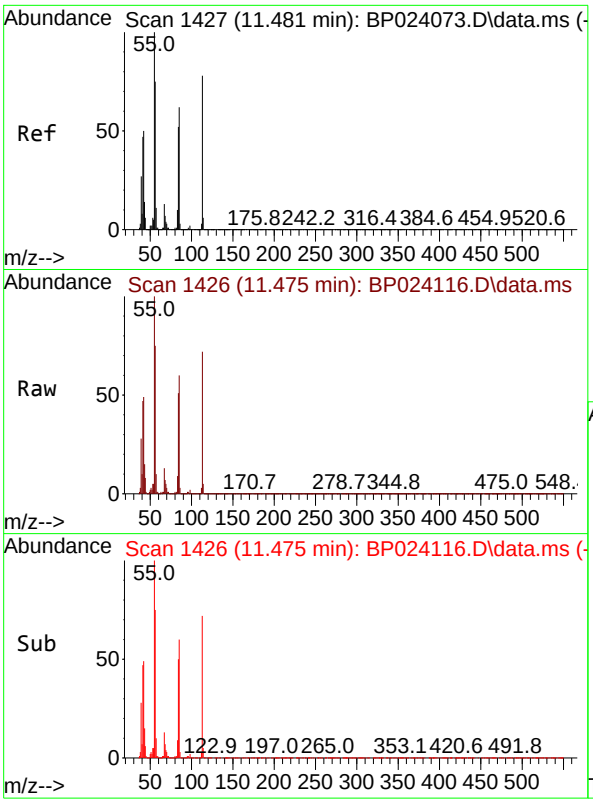


#34
Hexachlorobutadiene
Concen: 40.327 ng
RT: 10.869 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:225 Resp: 549138

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.5	75.7
227	65.1	51.3	76.9

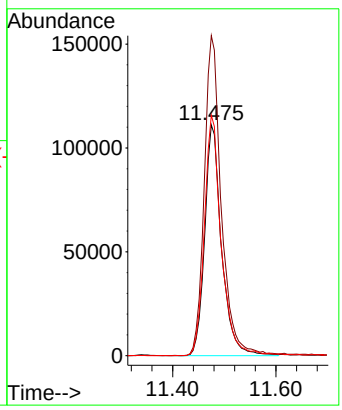




#35
Caprolactam
Concen: 37.729 ng
RT: 11.475 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:113 Resp: 25143

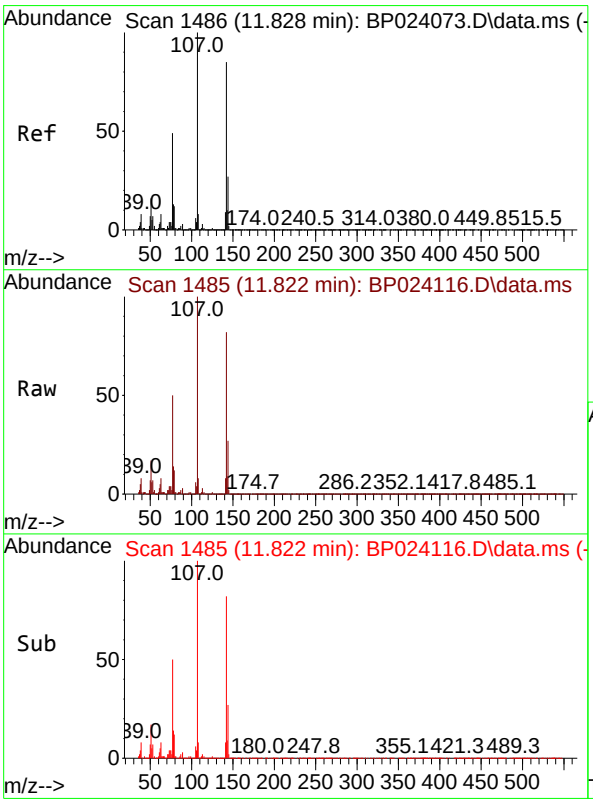
Ion	Ratio	Lower	Upper
113	100		
55	138.7	108.8	148.8
56	104.2	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

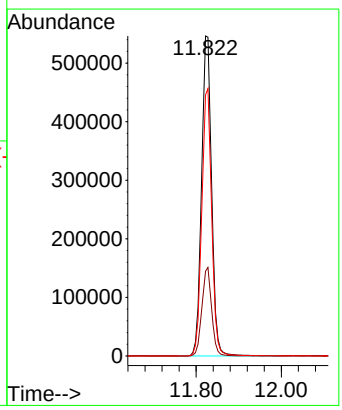
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

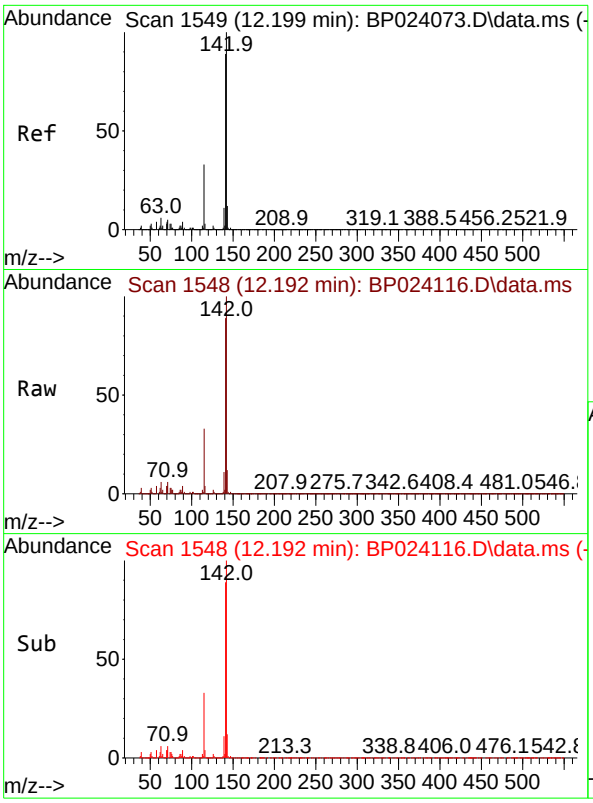


#36
4-Chloro-3-methylphenol
Concen: 42.445 ng
RT: 11.822 min Scan# 1485
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:107 Resp: 895328

Ion	Ratio	Lower	Upper
107	100		
144	26.5	21.8	32.8
142	81.6	67.8	101.8

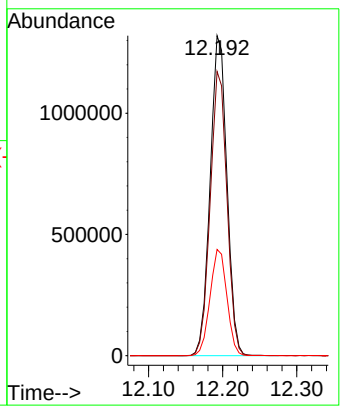




#37
2-Methylnaphthalene
Concen: 41.152 ng
RT: 12.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:142 Resp: 207277

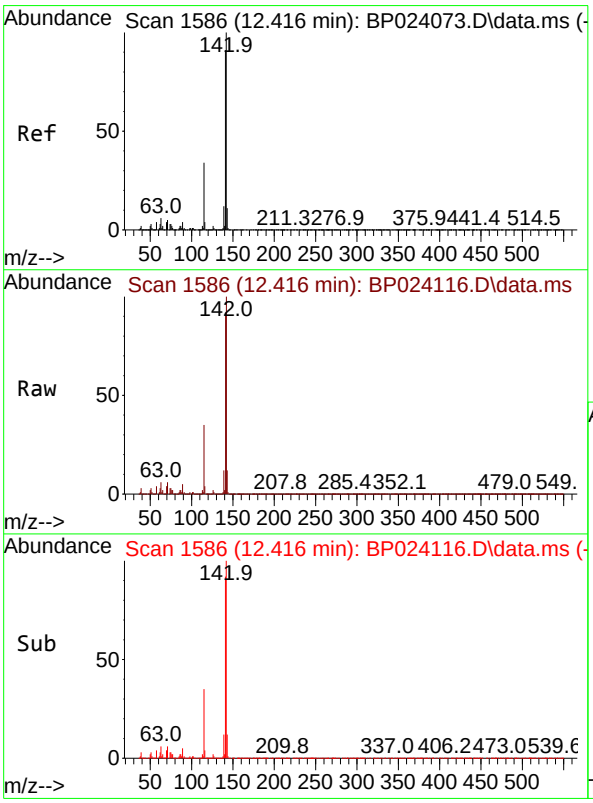
Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.2	106.8
115	33.2	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

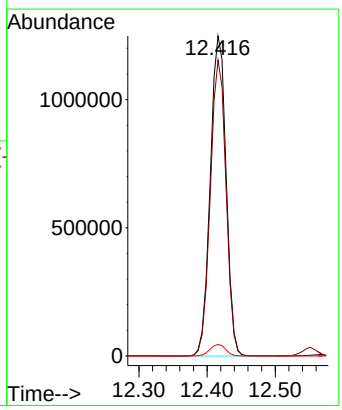
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

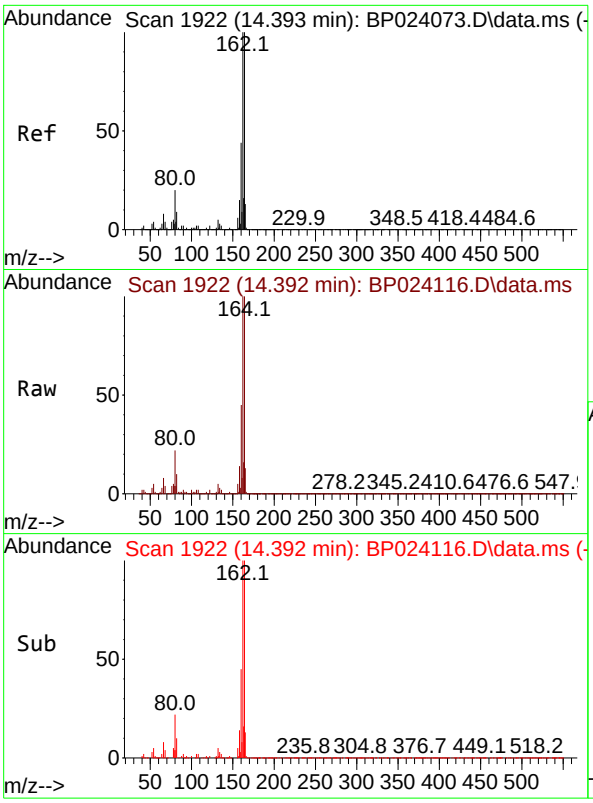


#38
1-Methylnaphthalene
Concen: 41.163 ng
RT: 12.416 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:142 Resp: 2016959

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.0	109.6
116	3.6	2.8	4.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

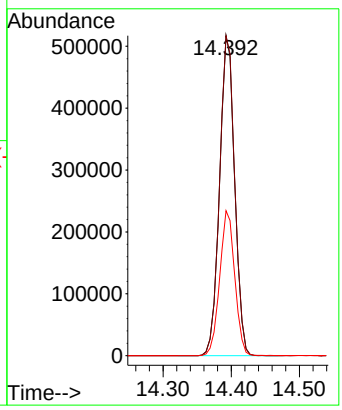
Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

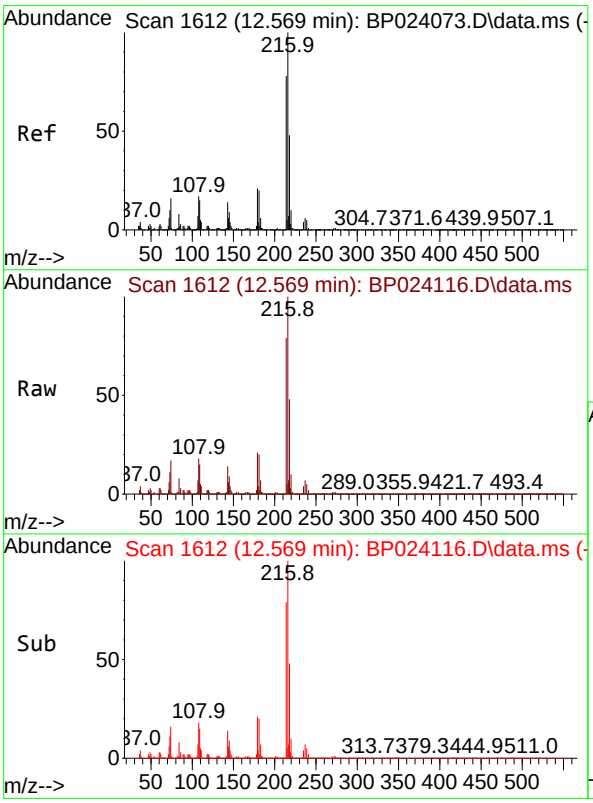
Tgt Ion:164 Resp: 79294

Ion	Ratio	Lower	Upper
164	100		
162	99.9	80.1	120.1
160	45.3	35.6	53.4

Manual Integrations
APPROVED

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

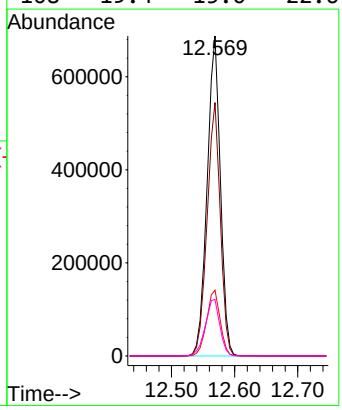


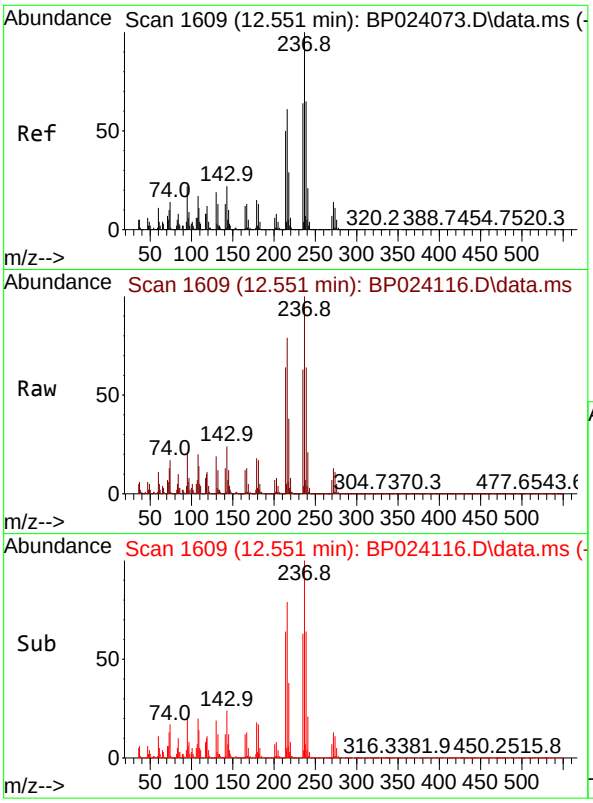


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.024 ng
RT: 12.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:216 Resp: 999497

Ion	Ratio	Lower	Upper
216	100		
214	78.9	62.7	94.1
179	21.1	16.6	25.0
108	19.4	15.0	22.6

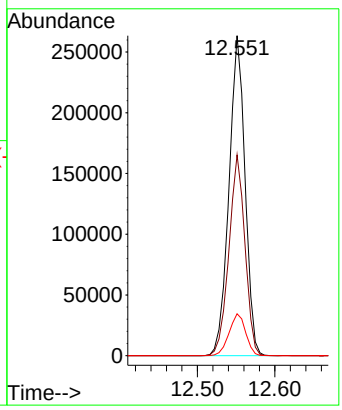




#41
Hexachlorocyclopentadiene
Concen: 41.873 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:237 Resp: 37962

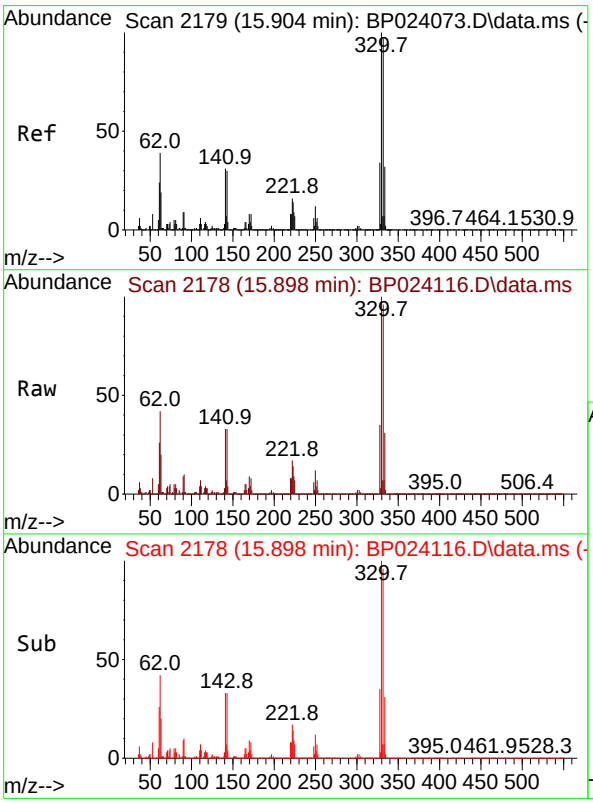
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.5	83.5
272	13.1	0.0	33.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

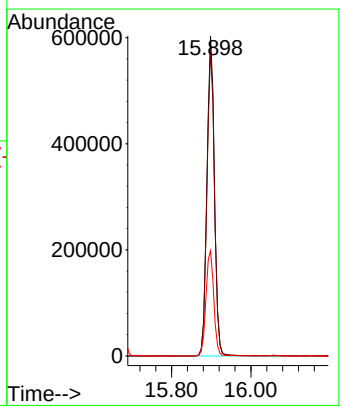
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

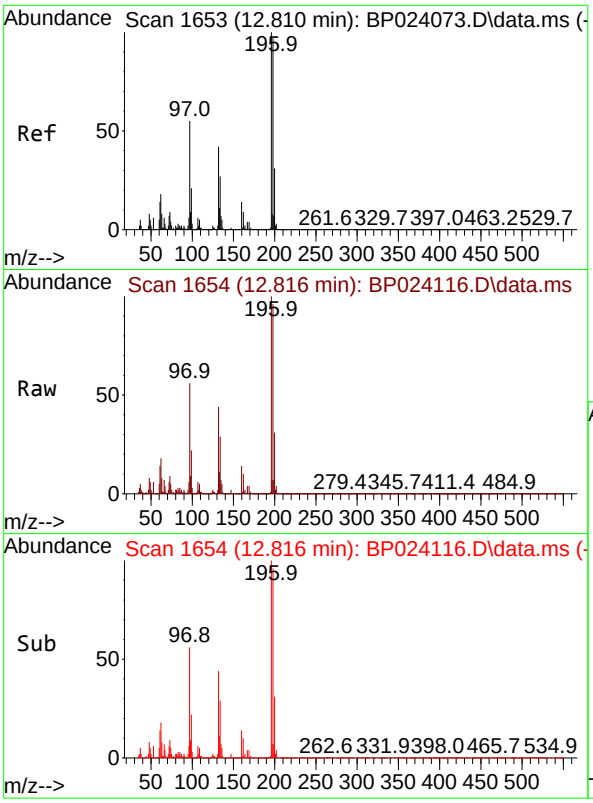


#42
2,4,6-Tribromophenol
Concen: 81.484 ng
RT: 15.898 min Scan# 2178
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:330 Resp: 791433

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.4
141	34.3	28.3	42.5





#43
2,4,6-Trichlorophenol
Concen: 41.444 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

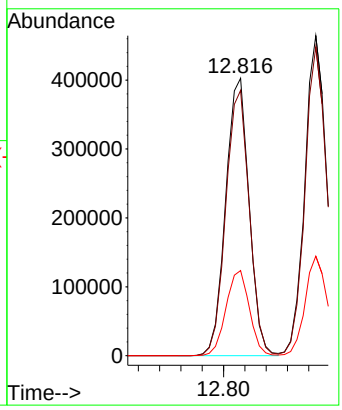
Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

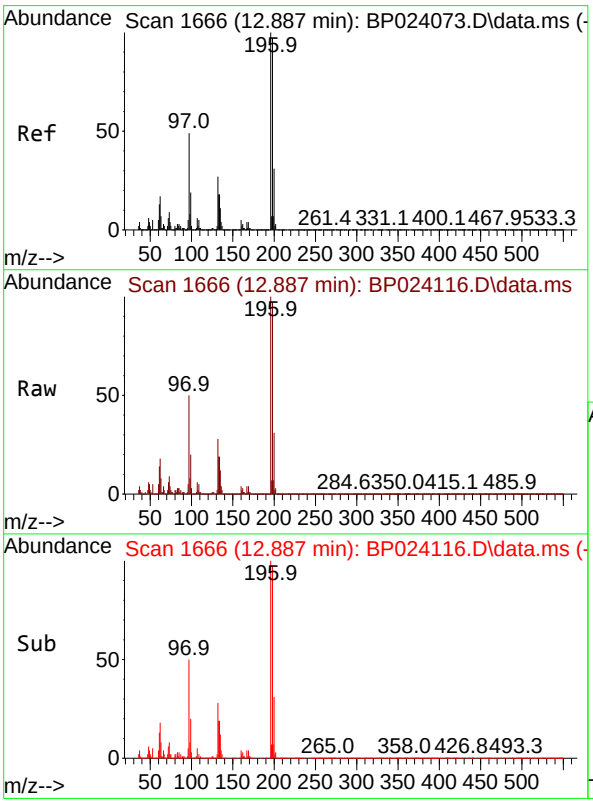
Tgt Ion:196 Resp: 61578

Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.8	116.6
200	30.7	25.0	37.4

Manual Integrations
APPROVED

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

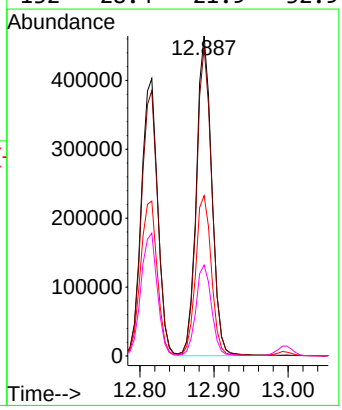


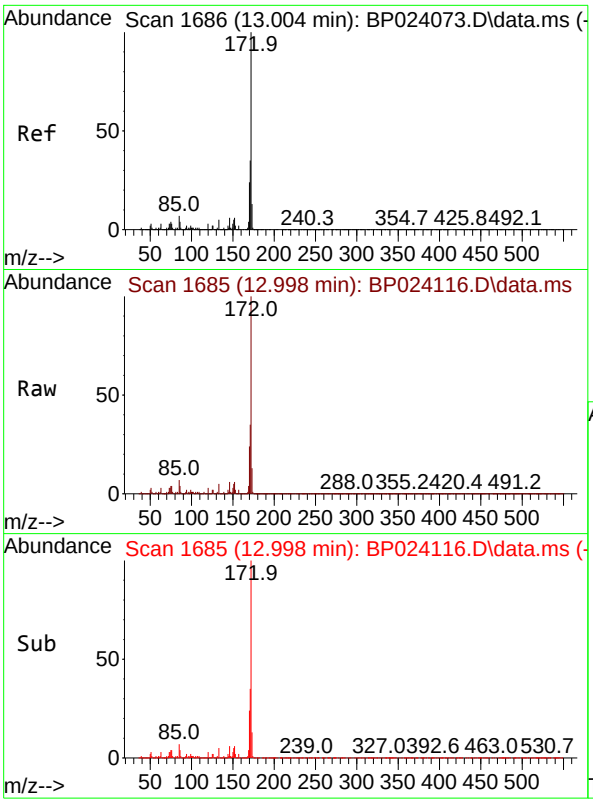


#44
2,4,5-Trichlorophenol
Concen: 41.099 ng
RT: 12.887 min Scan# 1666
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:196 Resp: 667837

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.4	116.2
97	50.1	39.0	58.4
132	28.4	21.9	32.9

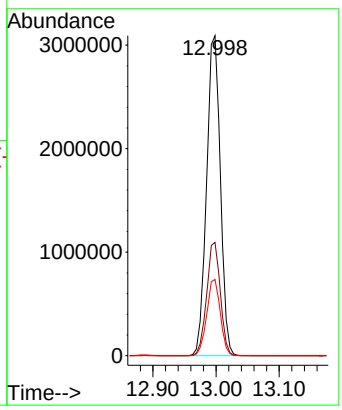




#45
2-Fluorobiphenyl
Concen: 82.586 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:172 Resp: 468429

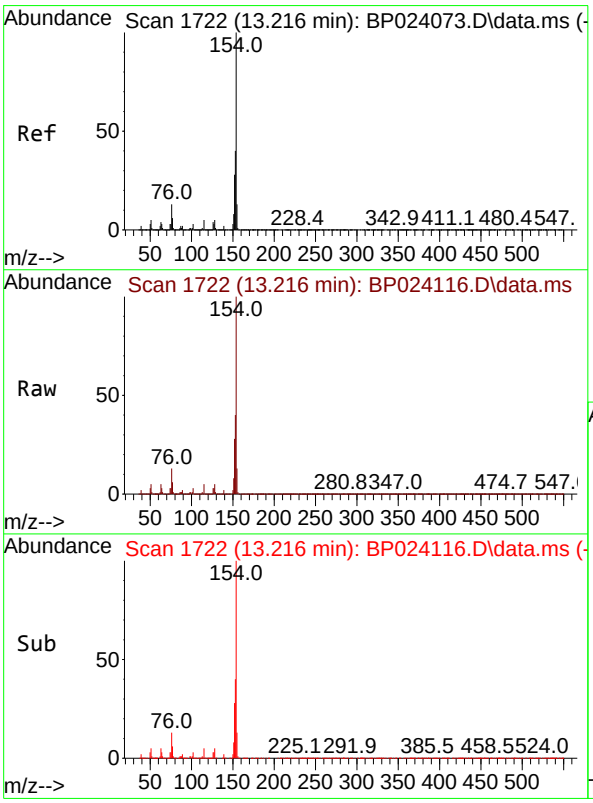
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.2	42.2
170	23.8	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

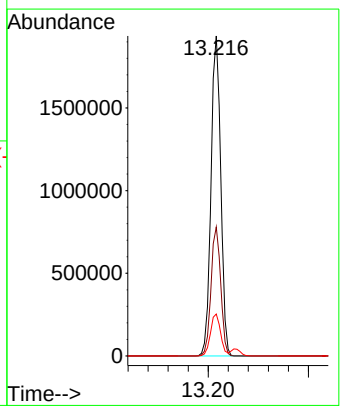
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

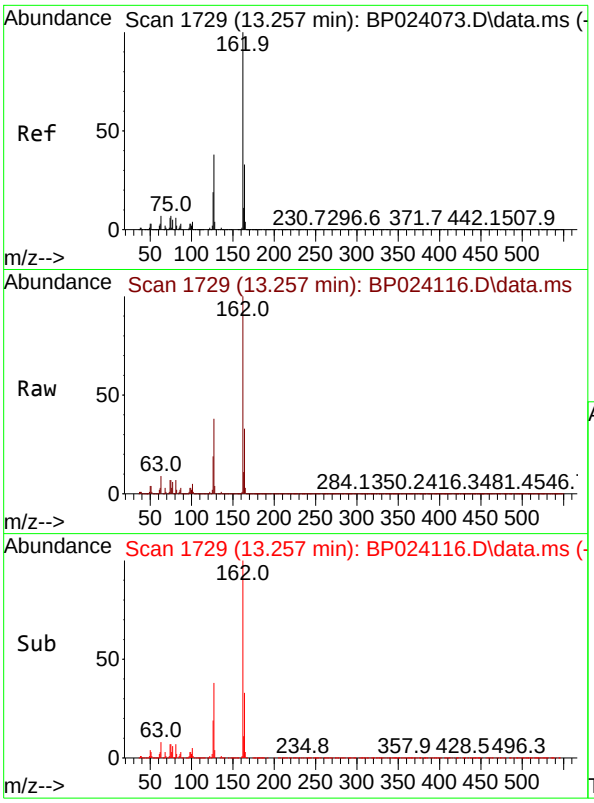


#46
1,1'-Biphenyl
Concen: 42.301 ng
RT: 13.216 min Scan# 1722
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:154 Resp: 2606431

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.0	60.0
76	13.1	0.0	32.6

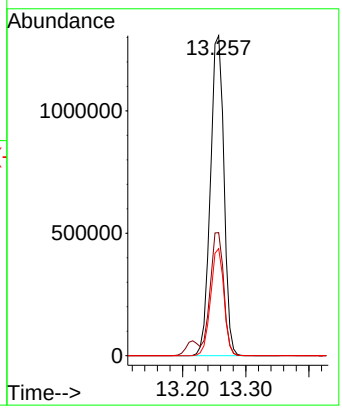




#47
2-Chloronaphthalene
Concen: 41.746 ng
RT: 13.257 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:162 Resp: 194447

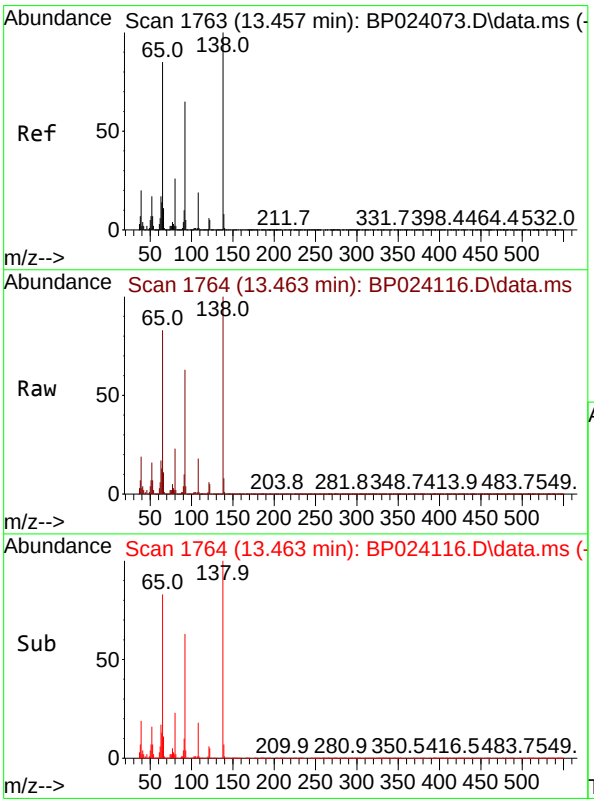
Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.7	46.1
164	33.5	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

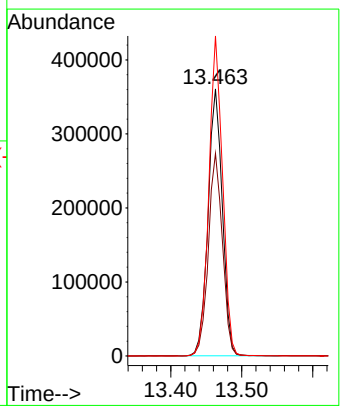
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

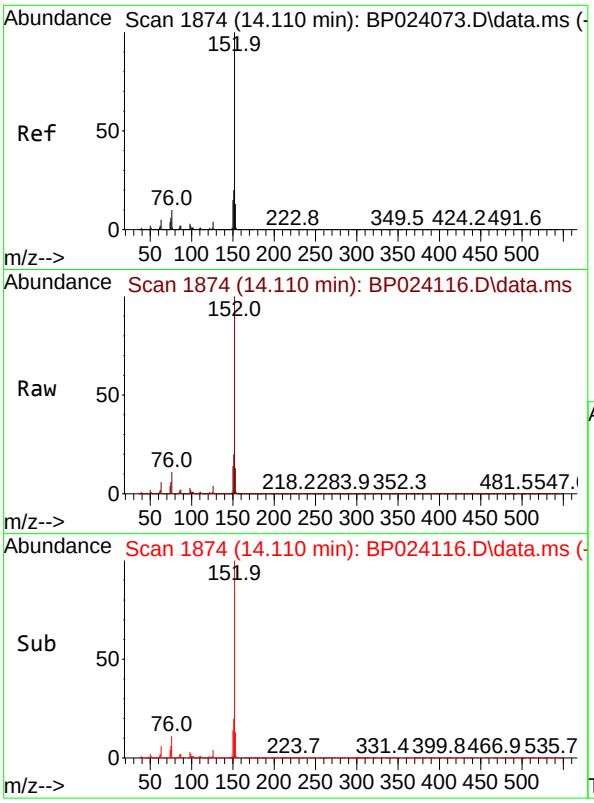


#48
2-Nitroaniline
Concen: 45.906 ng
RT: 13.463 min Scan# 1764
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 65 Resp: 505101

Ion	Ratio	Lower	Upper
65	100		
92	75.9	61.7	92.5
138	119.8	94.6	142.0

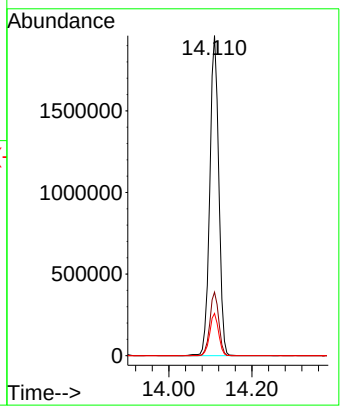




#49
Acenaphthylene
Concen: 42.701 ng
RT: 14.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:152 Resp: 293038

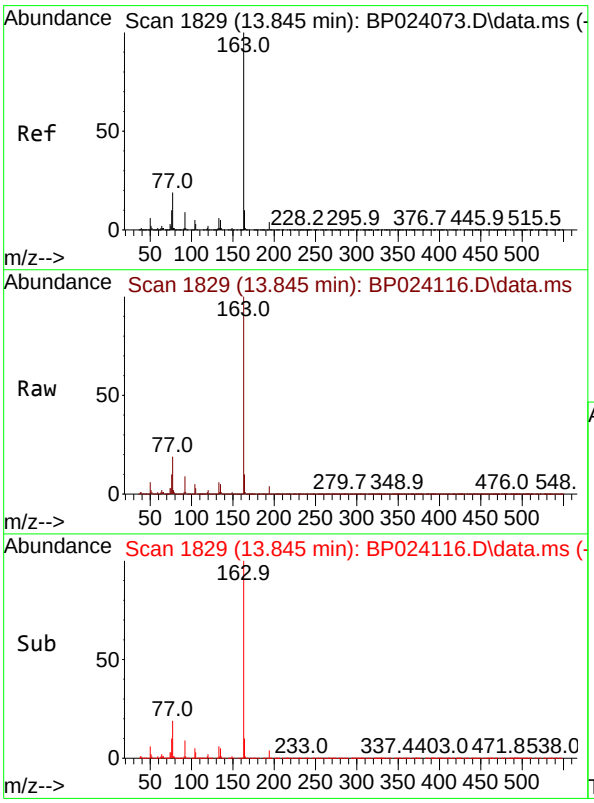
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	13.2	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

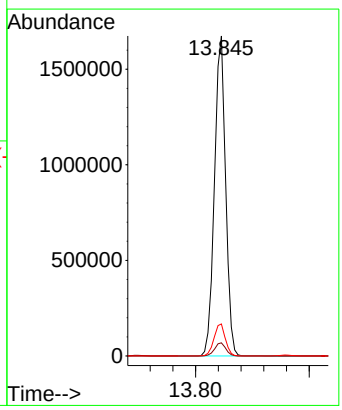
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

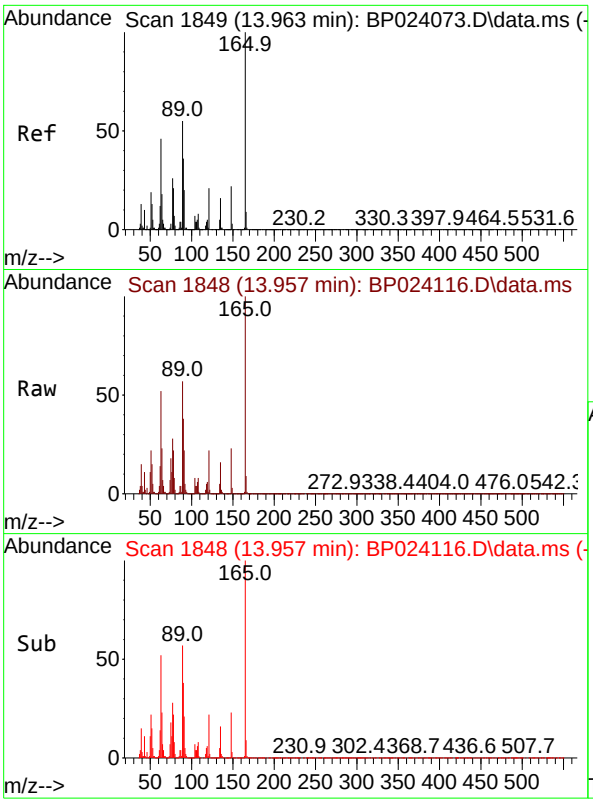


#50
Dimethylphthalate
Concen: 40.593 ng
RT: 13.845 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:163 Resp: 2270506

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.0	8.1	12.1

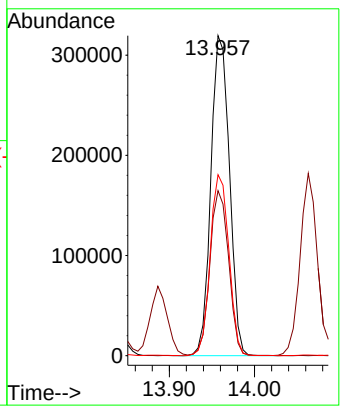




#51
2,6-Dinitrotoluene
Concen: 42.393 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:165 Resp: 48301

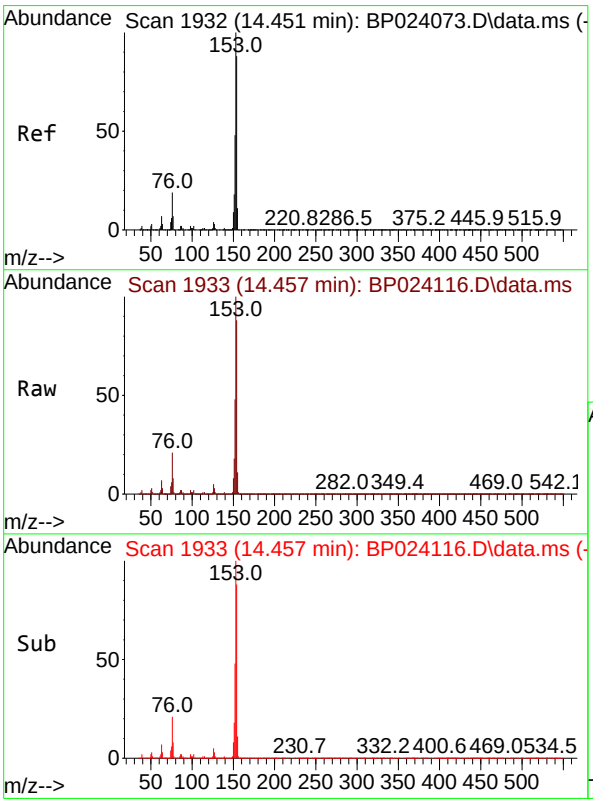
Ion	Ratio	Lower	Upper
165	100		
63	51.6	40.1	60.1
89	56.5	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

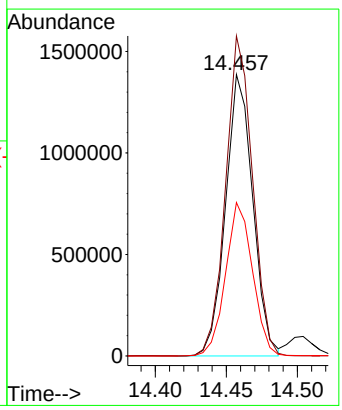
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

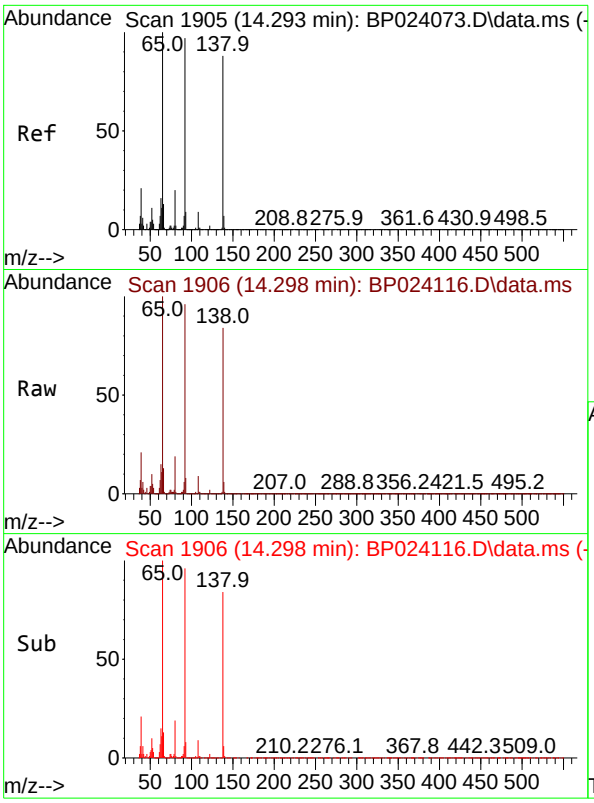


#52
Acenaphthene
Concen: 41.744 ng
RT: 14.457 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:154 Resp: 1844781

Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.6	135.8
152	54.5	43.6	65.4





#53
3-Nitroaniline
Concen: 43.418 ng
RT: 14.298 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

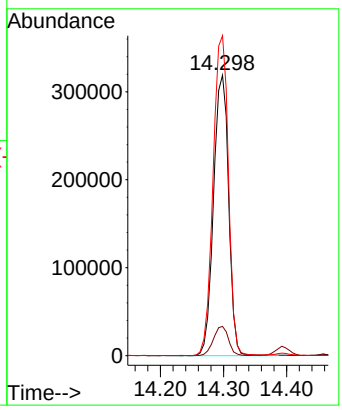
Tgt Ion:138 Resp: 52788

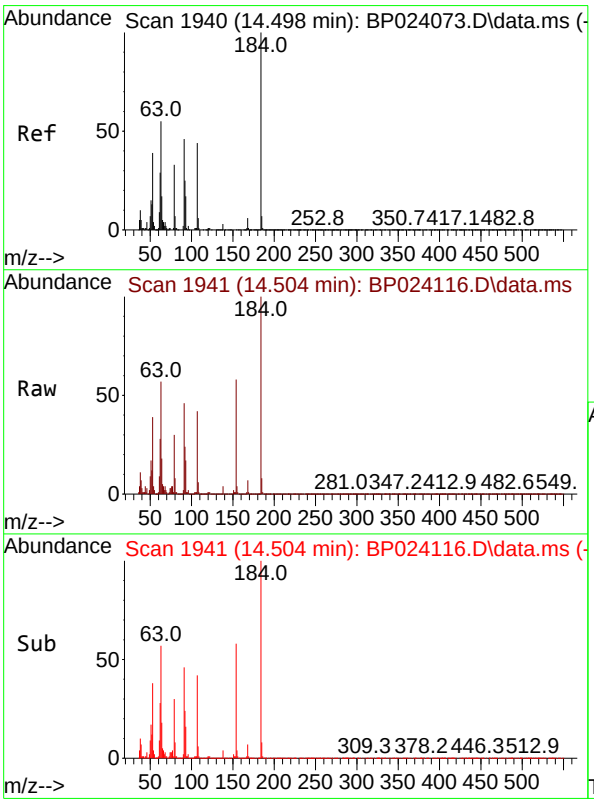
Ion	Ratio	Lower	Upper
138	100		
108	10.4	7.8	11.8
92	114.1	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

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

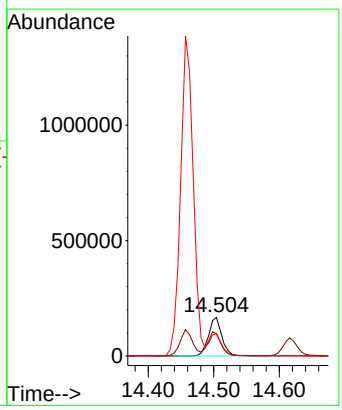


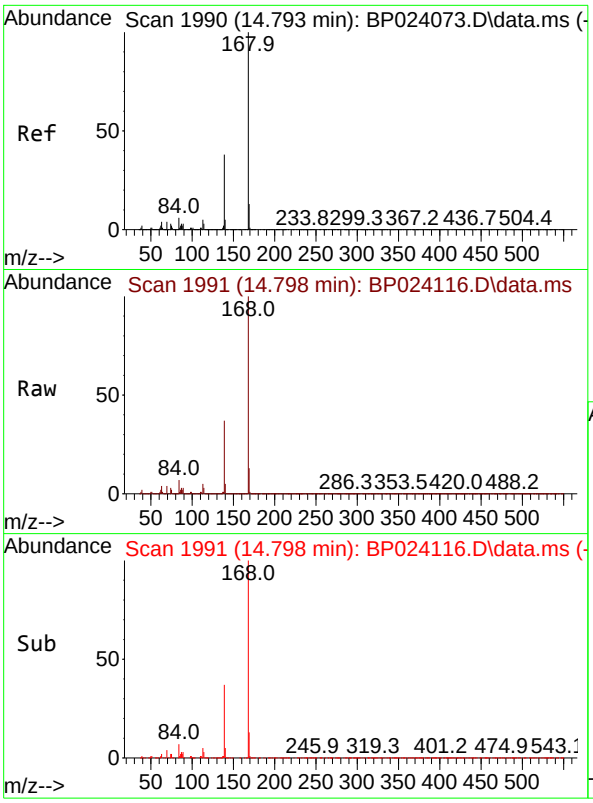


#54
2,4-Dinitrophenol
Concen: 36.396 ng
RT: 14.504 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:184 Resp: 238114

Ion	Ratio	Lower	Upper
184	100		
63	57.5	49.4	74.0
154	57.8	49.2	73.8

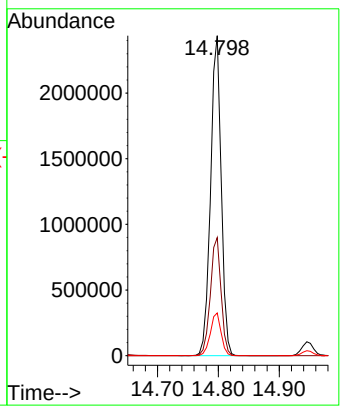




#55
Dibenzofuran
Concen: 41.088 ng
RT: 14.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:168 Resp: 294975

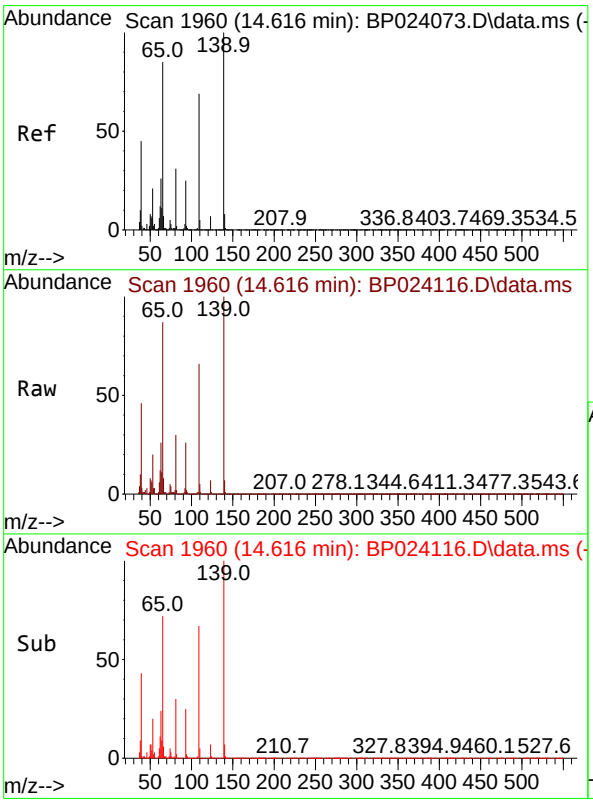
Ion	Ratio	Lower	Upper
168	100		
139	36.9	30.2	45.2
169	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

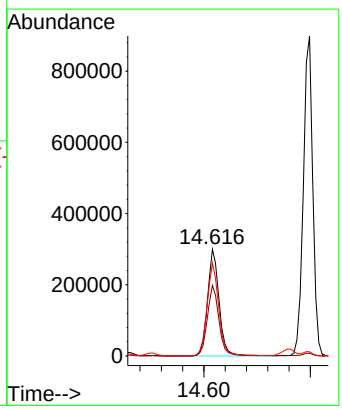
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

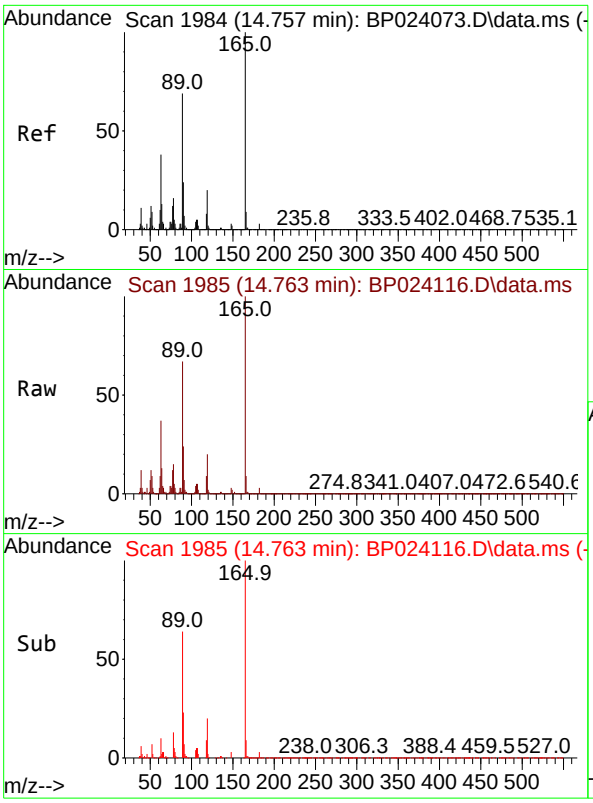


#56
4-Nitrophenol
Concen: 42.831 ng
RT: 14.616 min Scan# 1960
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:139 Resp: 449827

Ion	Ratio	Lower	Upper
139	100		
109	66.1	49.2	89.2
65	87.2	65.4	105.4

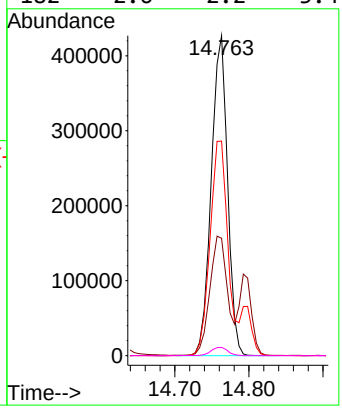




#57
2,4-Dinitrotoluene
Concen: 43.928 ng
RT: 14.763 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:165 Resp: 65017

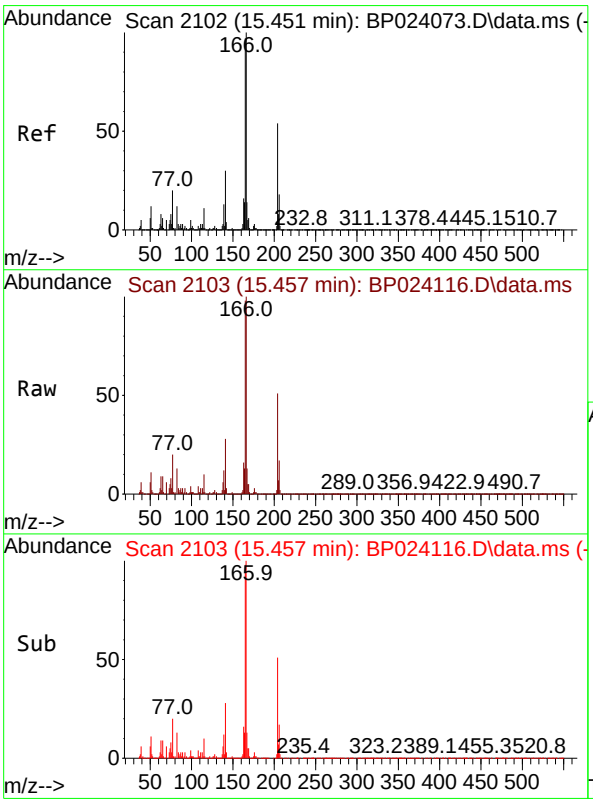
Ion	Ratio	Lower	Upper
165	100		
63	36.7	30.4	45.6
89	67.0	54.8	82.2
182	2.6	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

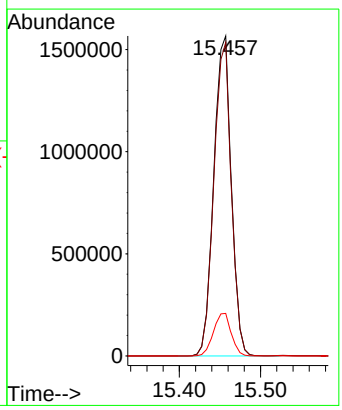
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

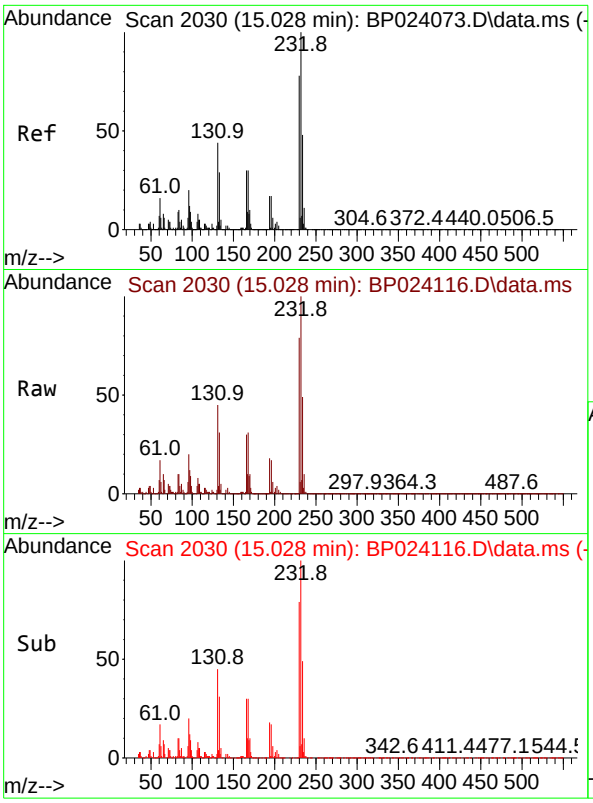


#58
Fluorene
Concen: 41.958 ng
RT: 15.457 min Scan# 2103
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:166 Resp: 2352462

Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.5	116.3
167	13.3	10.9	16.3

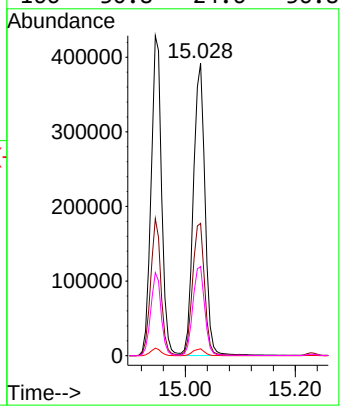




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.917 ng
RT: 15.028 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:232 Resp: 57686

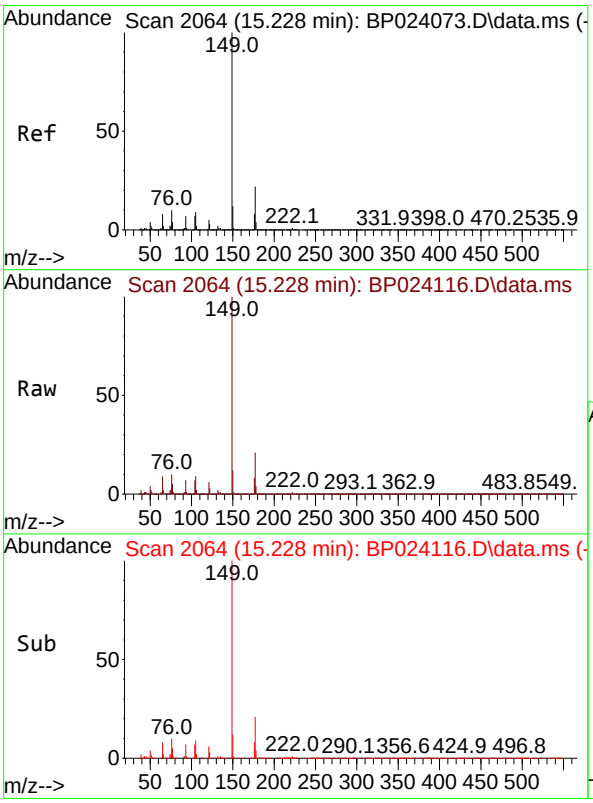
Ion	Ratio	Lower	Upper
232	100		
131	46.6	37.3	55.9
130	2.4	1.9	2.9
166	30.8	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

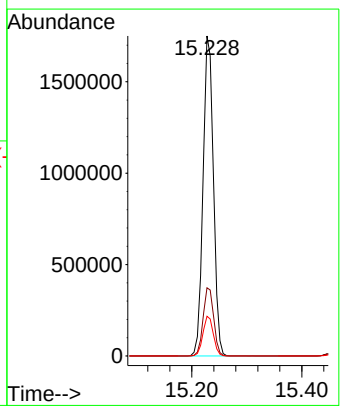
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

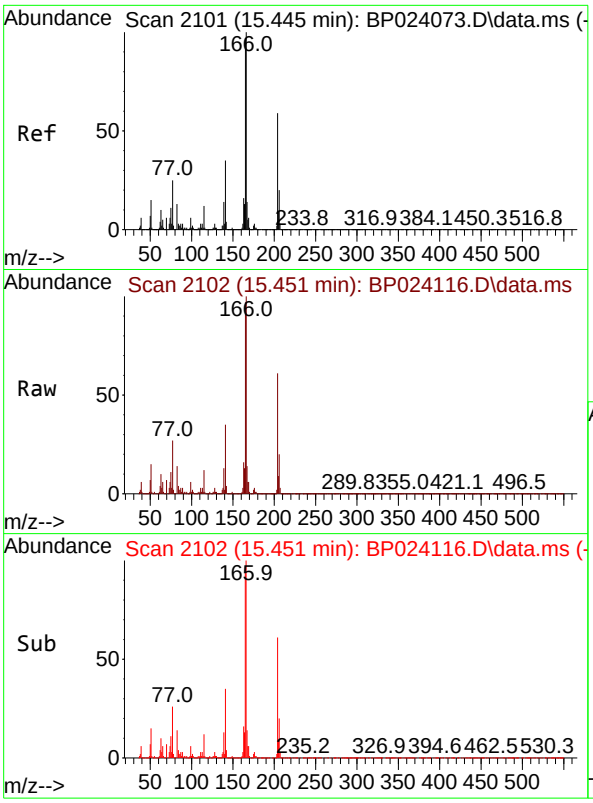


#60
Diethylphthalate
Concen: 41.241 ng
RT: 15.228 min Scan# 2064
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:149 Resp: 2289864

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.9	26.9
150	12.4	9.8	14.6





#61
4-Chlorophenyl-phenylether
Concen: 40.871 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

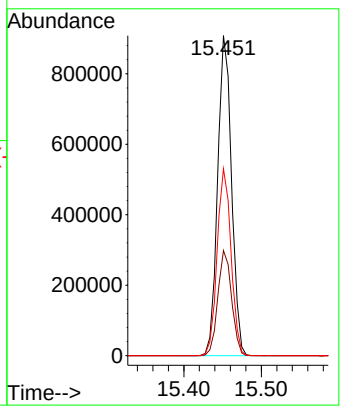
Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

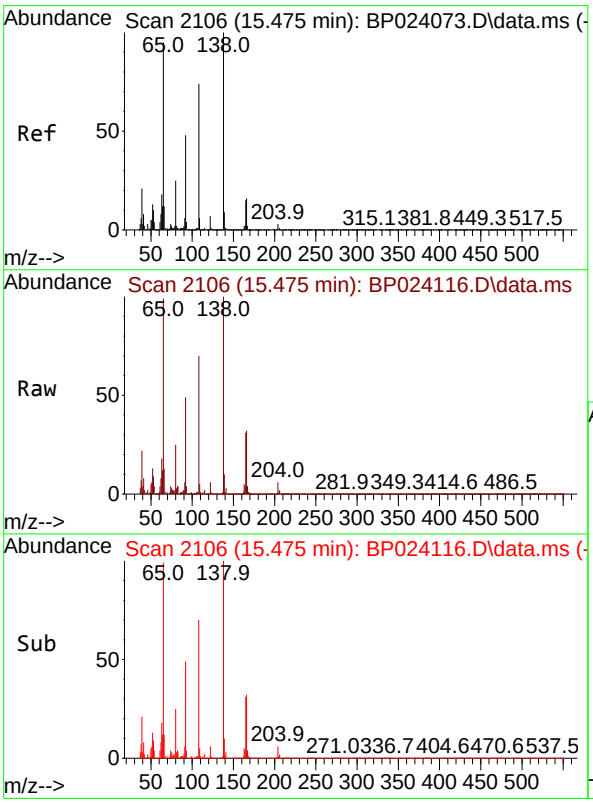
Tgt Ion:204 Resp: 112790

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.6	39.8
141	58.4	47.8	71.6

Manual Integrations APPROVED

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

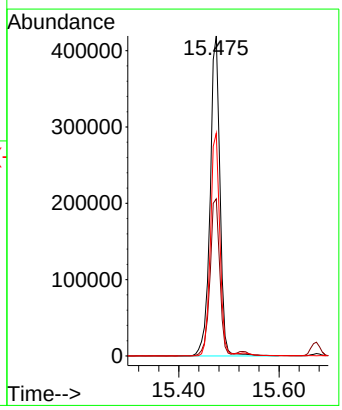


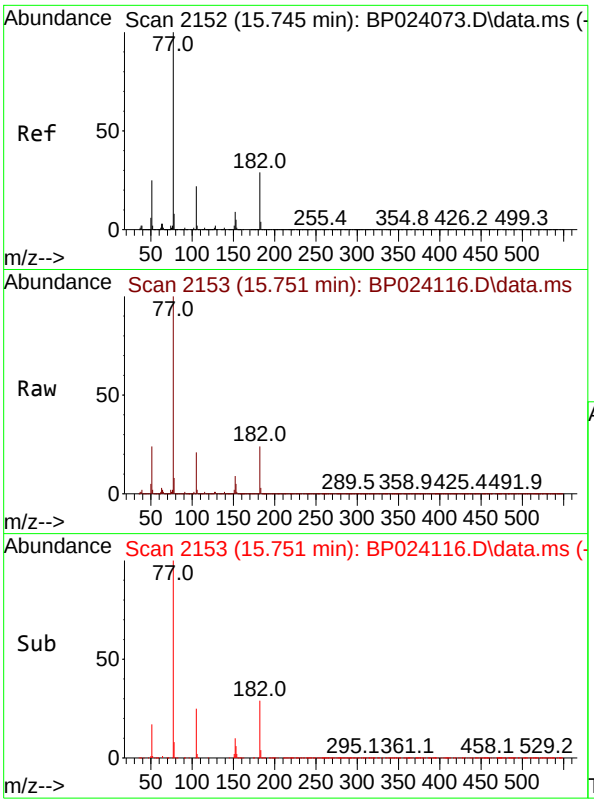


#62
4-Nitroaniline
Concen: 40.307 ng
RT: 15.475 min Scan# 2106
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:138 Resp: 572035

Ion	Ratio	Lower	Upper
138	100		
92	49.1	28.3	68.3
108	69.6	54.0	94.0

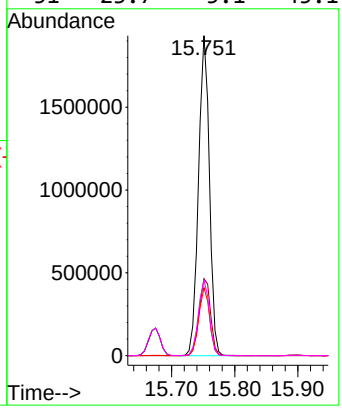




#63
Azobenzene
Concen: 44.362 ng
RT: 15.751 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion: 77 Resp: 230814

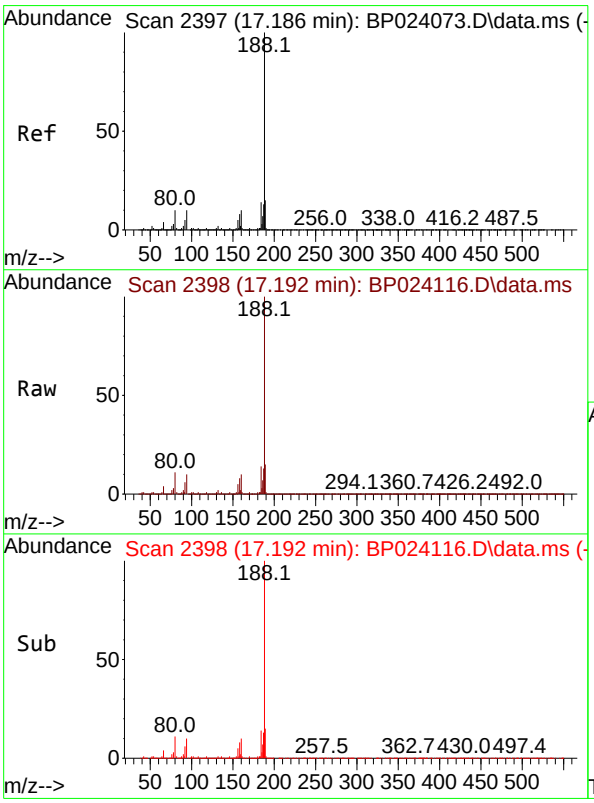
Ion	Ratio	Lower	Upper
77	100		
182	24.0	8.5	48.5
105	21.3	1.8	41.8
51	23.7	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

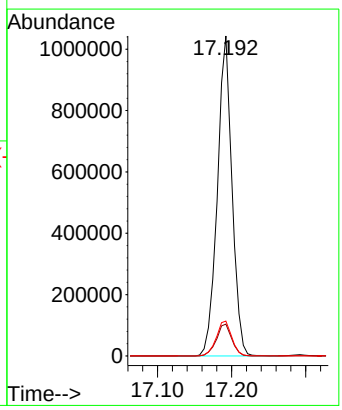
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

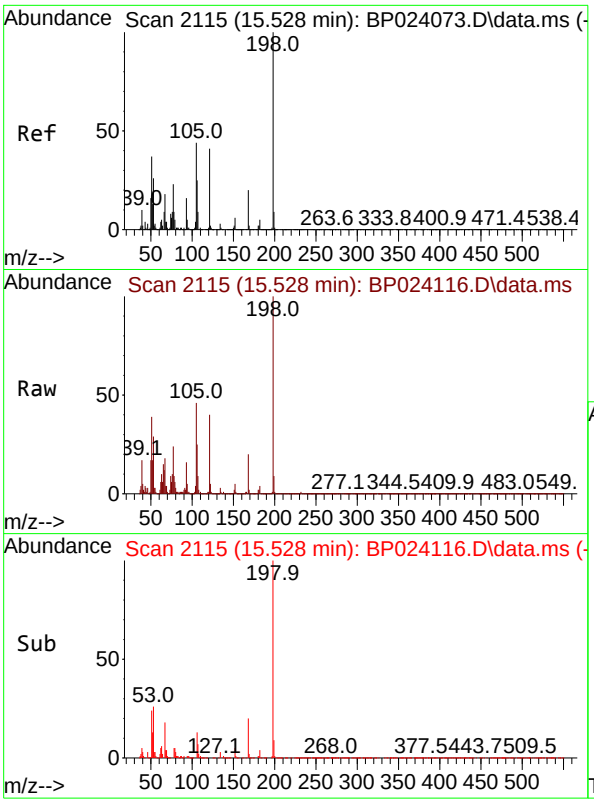


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2398
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:188 Resp: 1432339

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.6	11.4
80	10.9	8.2	12.2





#65
4,6-Dinitro-2-methylphenol
Concen: 38.013 ng
RT: 15.528 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

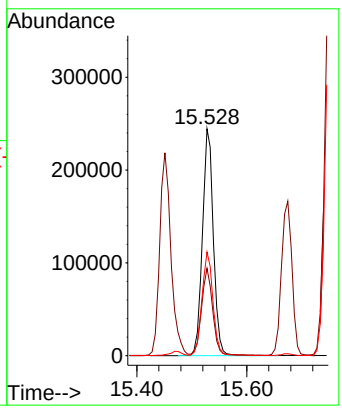
Tgt Ion:198 Resp: 33659

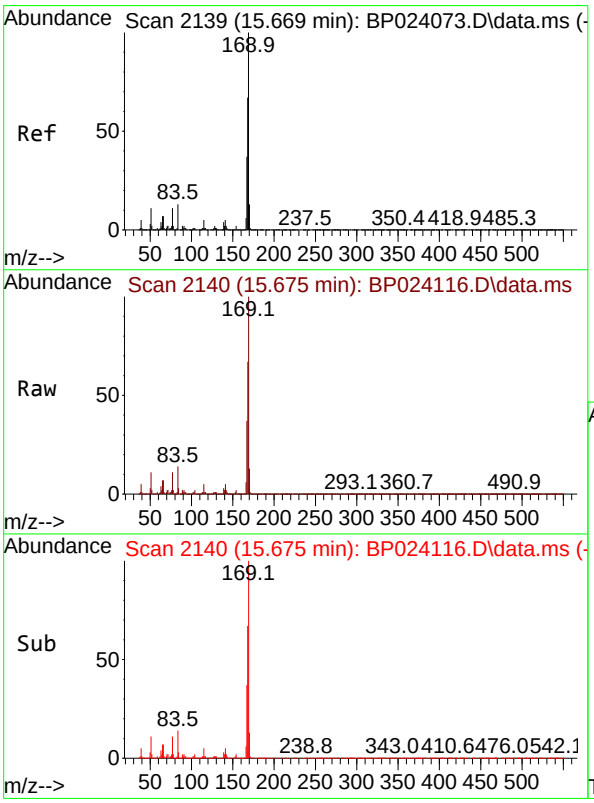
Ion	Ratio	Lower	Upper
198	100		
51	38.5	18.7	58.7
105	45.7	24.7	64.7

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

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

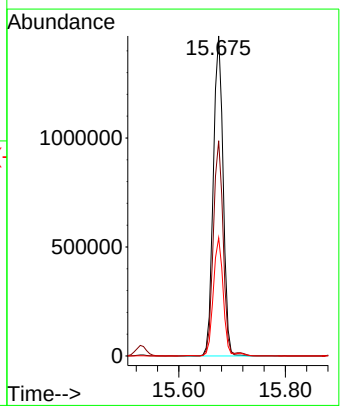


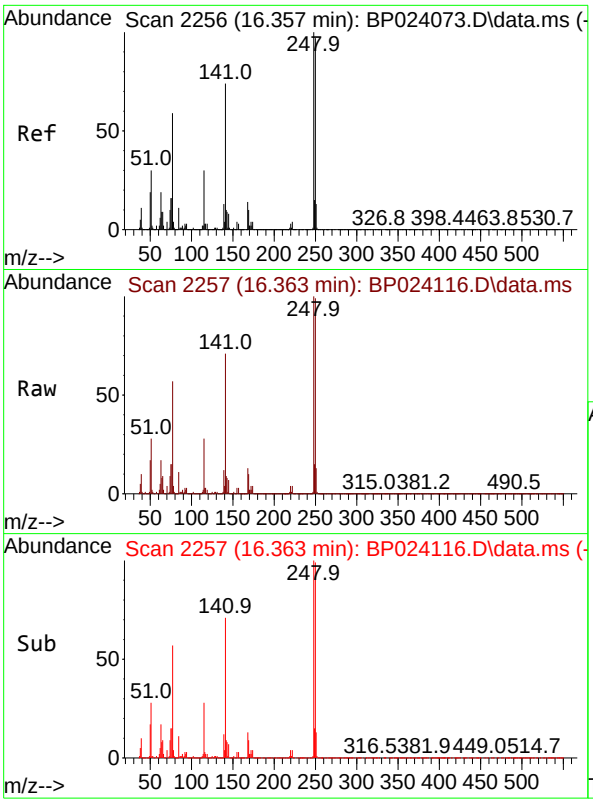


#66
n-Nitrosodiphenylamine
Concen: 42.110 ng
RT: 15.675 min Scan# 2140
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:169 Resp: 1880946

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.6	80.4
167	36.9	29.5	44.3

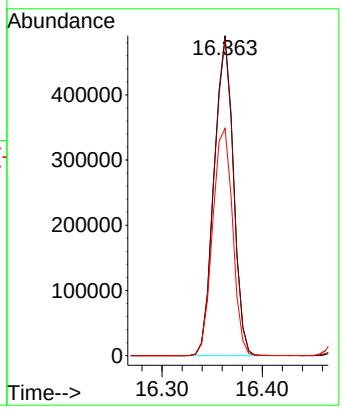




#67
4-Bromophenyl-phenylether
Concen: 40.815 ng
RT: 16.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:248 Resp: 65648

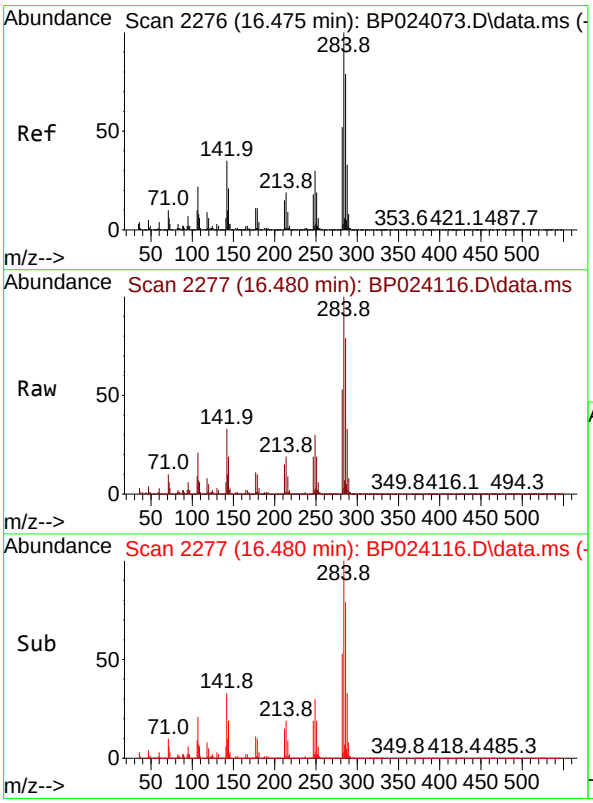
Ion	Ratio	Lower	Upper
248	100		
250	99.1	77.9	116.9
141	71.0	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

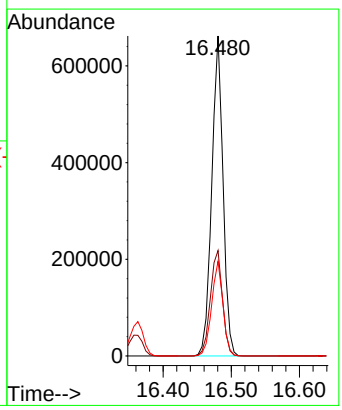
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

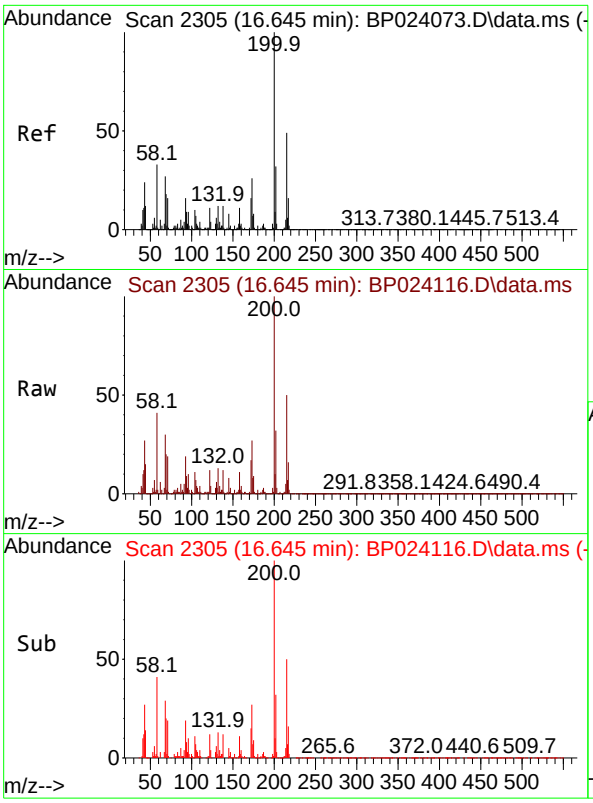


#68
Hexachlorobenzene
Concen: 40.333 ng
RT: 16.480 min Scan# 2277
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:284 Resp: 763356

Ion	Ratio	Lower	Upper
284	100		
142	32.9	27.7	41.5
249	29.6	23.8	35.6

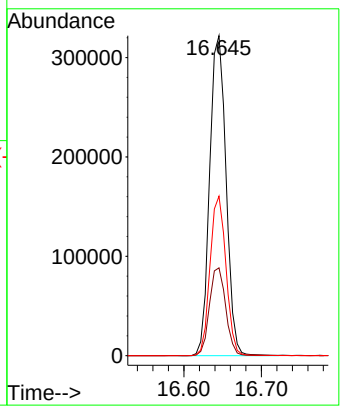




#69
Atrazine
Concen: 41.224 ng
RT: 16.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:200 Resp: 47254

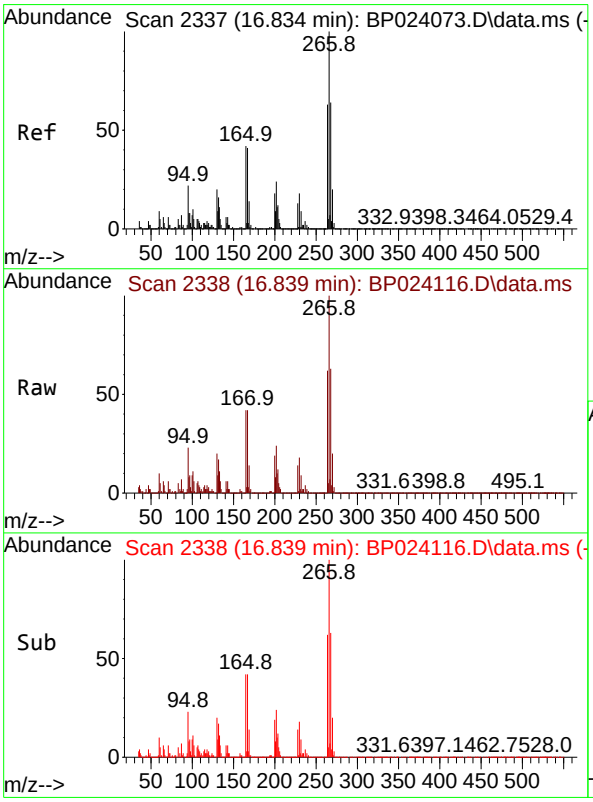
Ion	Ratio	Lower	Upper
200	100		
173	27.4	5.7	45.7
215	49.8	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

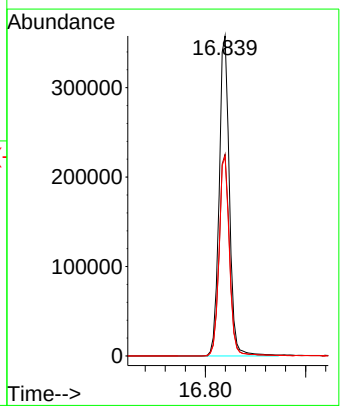
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

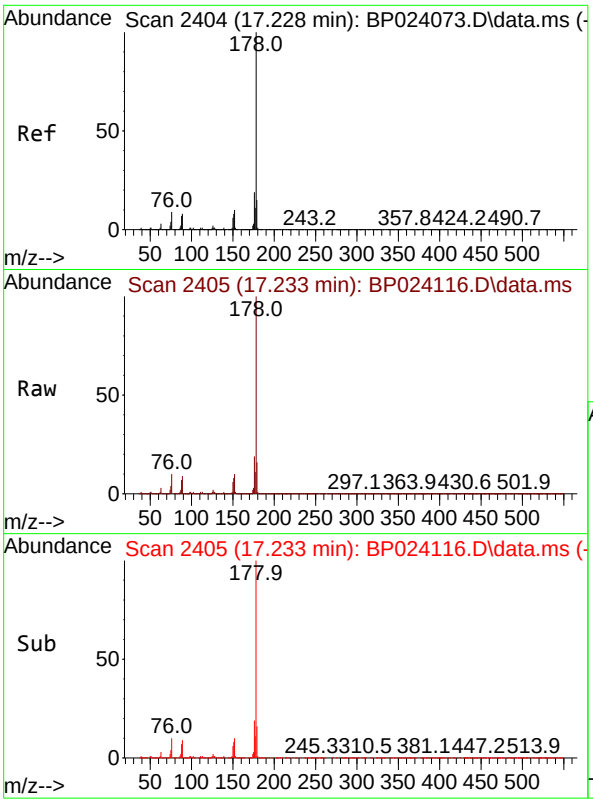


#70
Pentachlorophenol
Concen: 41.211 ng
RT: 16.839 min Scan# 2338
Delta R.T. 0.005 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:266 Resp: 506575

Ion	Ratio	Lower	Upper
266	100		
268	63.0	51.3	76.9
264	62.3	50.5	75.7

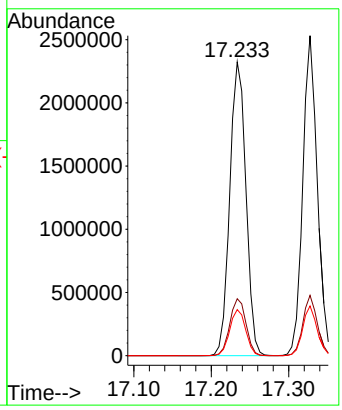




#71
Phenanthrene
Concen: 41.831 ng
RT: 17.233 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:178 Resp: 337802

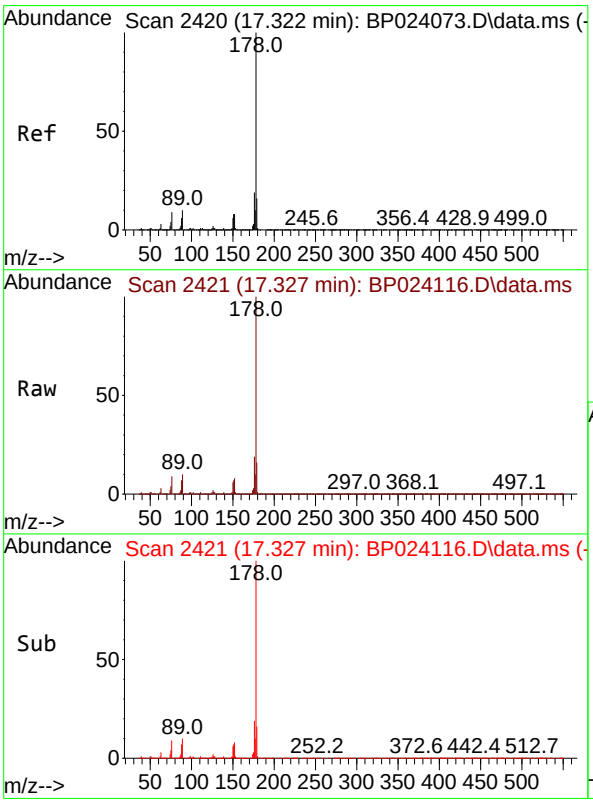
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.7	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

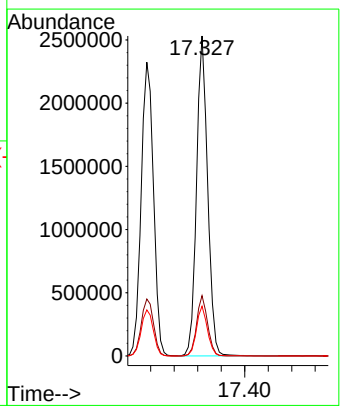
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

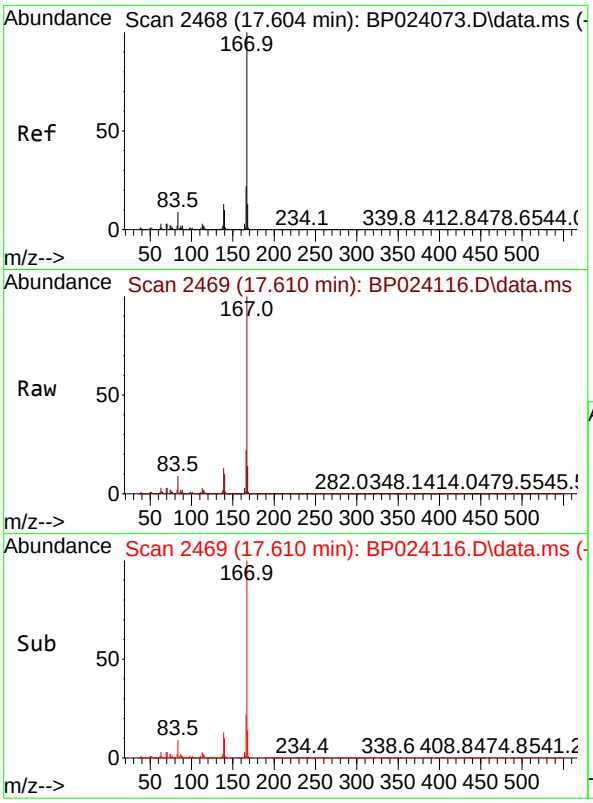


#72
Anthracene
Concen: 42.796 ng
RT: 17.327 min Scan# 2421
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:178 Resp: 3311810

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.6	12.6	19.0

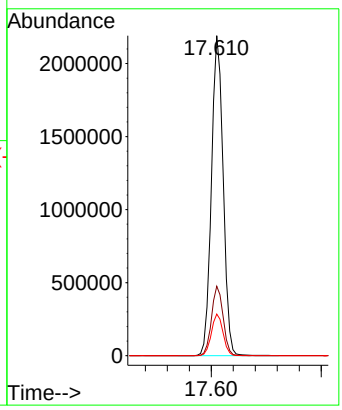




#73
Carbazole
Concen: 44.042 ng
RT: 17.610 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:167 Resp: 324726

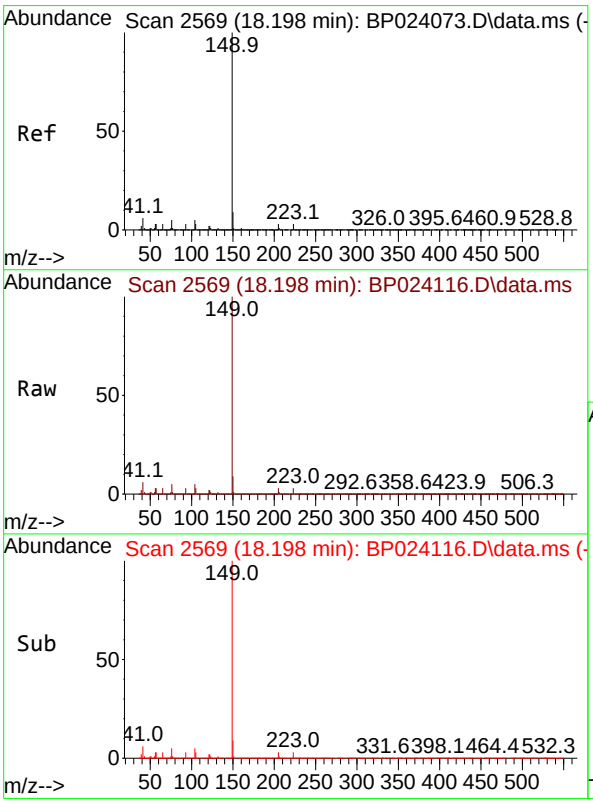
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	13.0	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

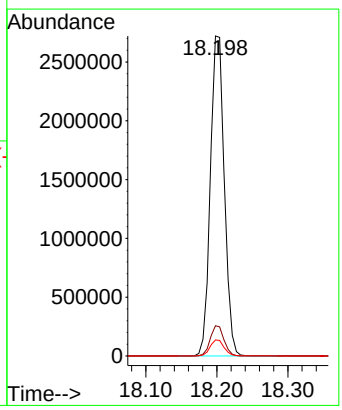
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

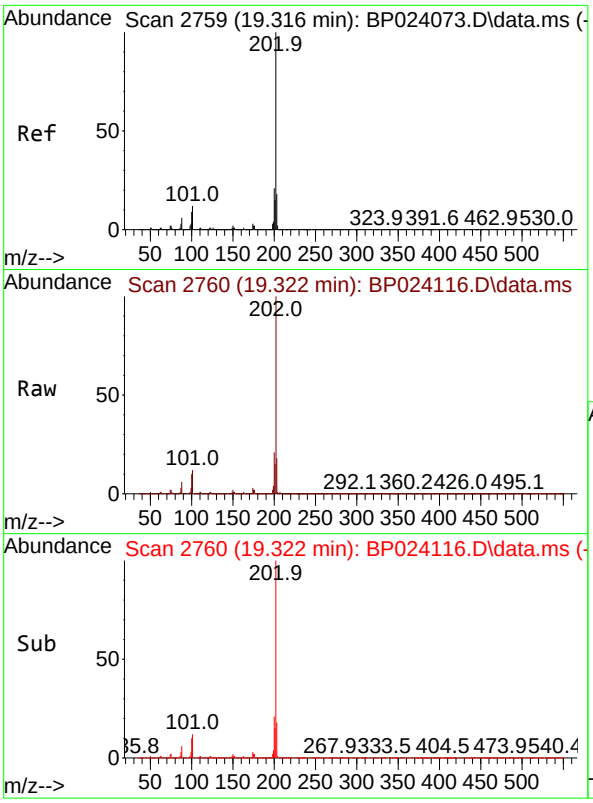


#74
Di-n-butylphthalate
Concen: 43.222 ng
RT: 18.198 min Scan# 2569
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:149 Resp: 3718462

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	5.0	4.2	6.2





#75
Fluoranthene
Concen: 42.707 ng
RT: 19.322 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

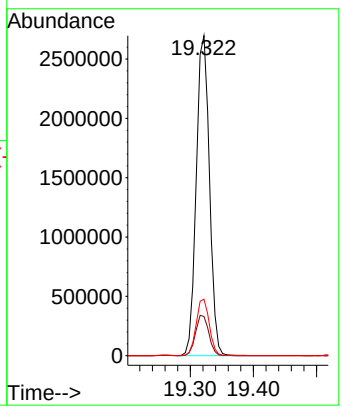
Tgt Ion:202 Resp: 390078

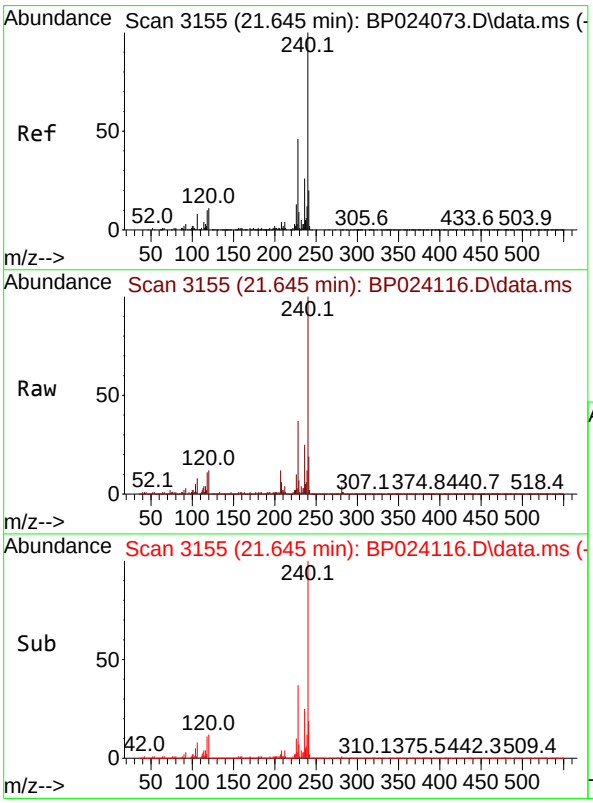
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	31.9
203	17.7	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

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

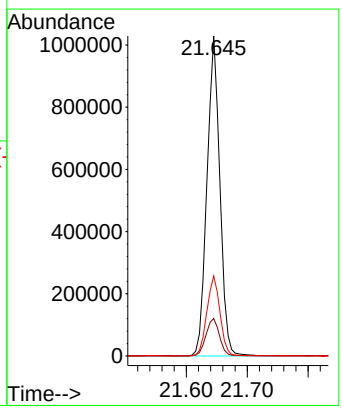


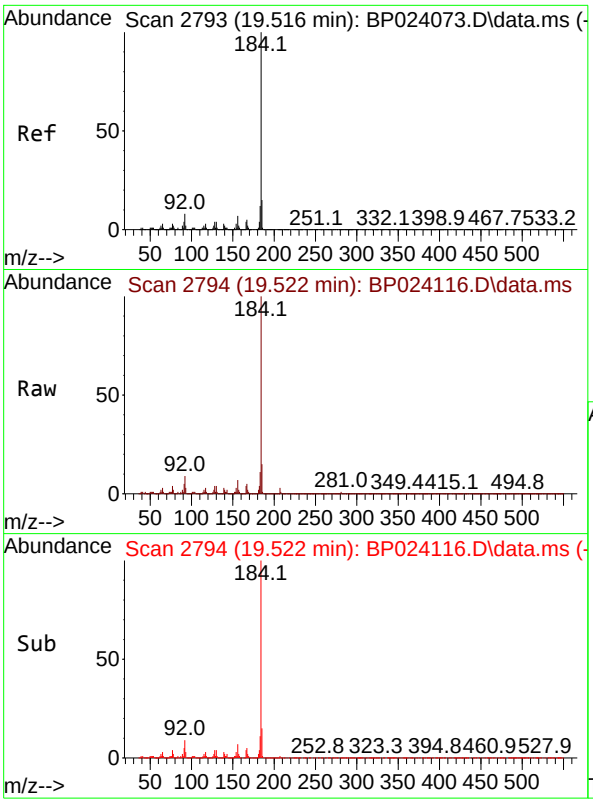


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.645 min Scan# 3155
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:240 Resp: 1516790

Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.9	13.3
236	25.0	20.7	31.1

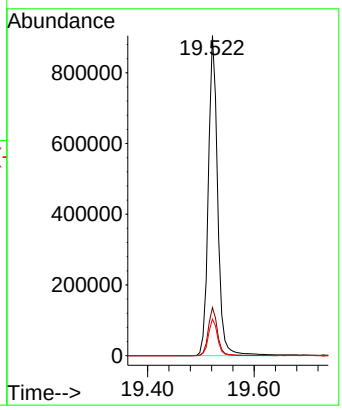




#77
Benzidine
Concen: 59.727 ng
RT: 19.522 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:184 Resp: 110393

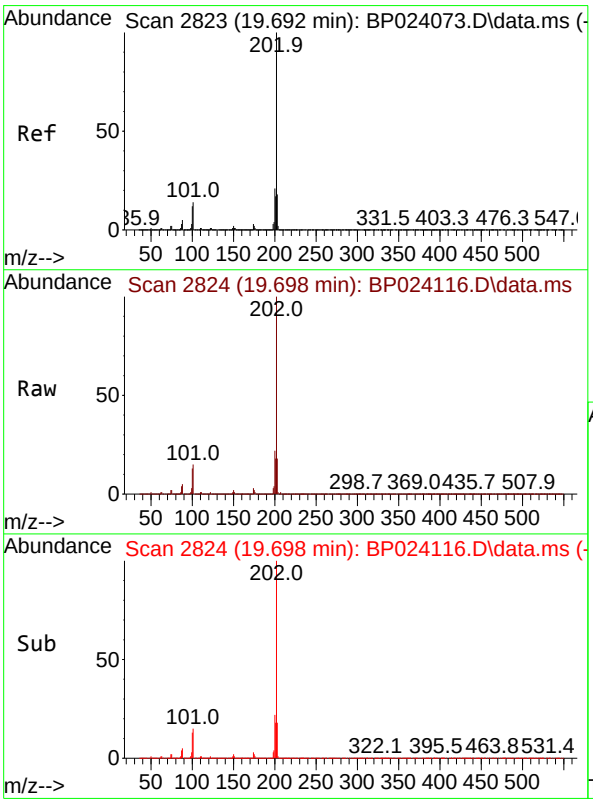
Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.8	17.8
183	11.4	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

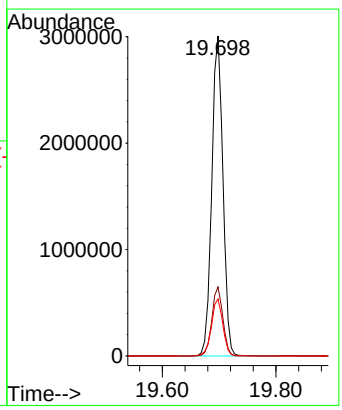
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

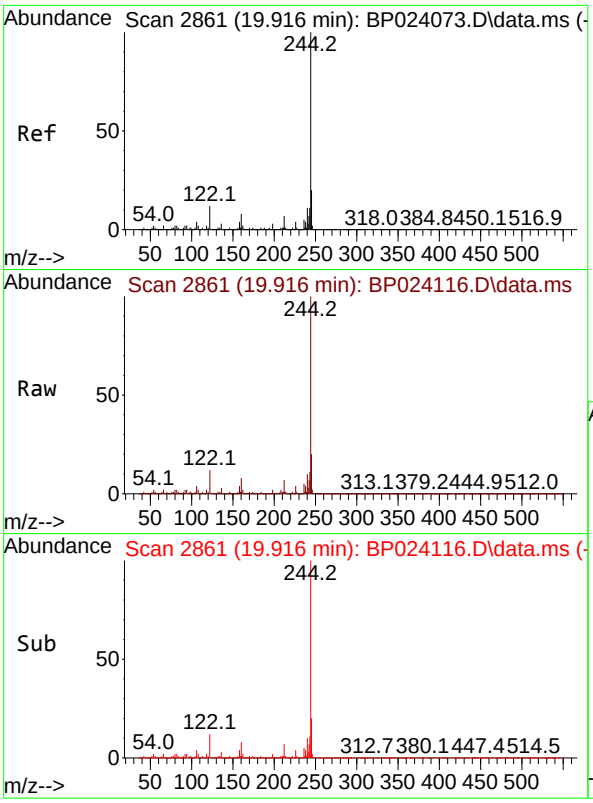


#78
Pyrene
Concen: 42.375 ng
RT: 19.698 min Scan# 2824
Delta R.T. 0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:202 Resp: 4082612

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.2	25.8
203	17.9	14.4	21.6

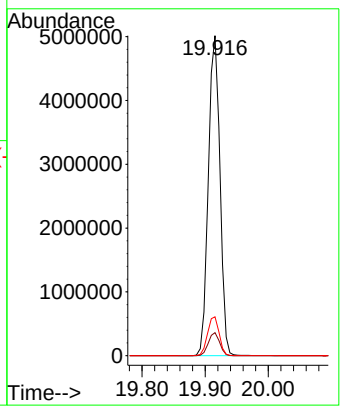




#79
Terphenyl-d14
Concen: 83.332 ng
RT: 19.916 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:244 Resp: 638777

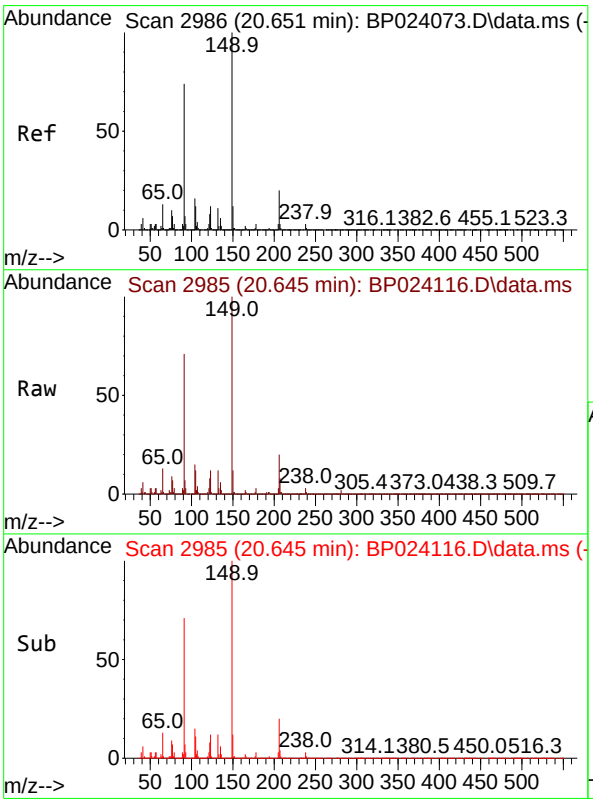
Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.9	8.9
122	12.1	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

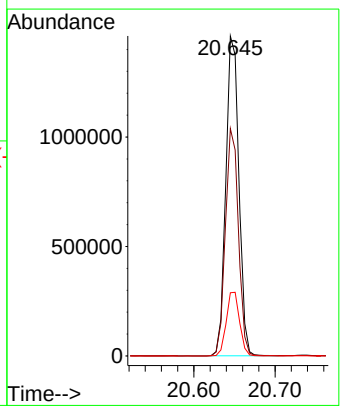
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

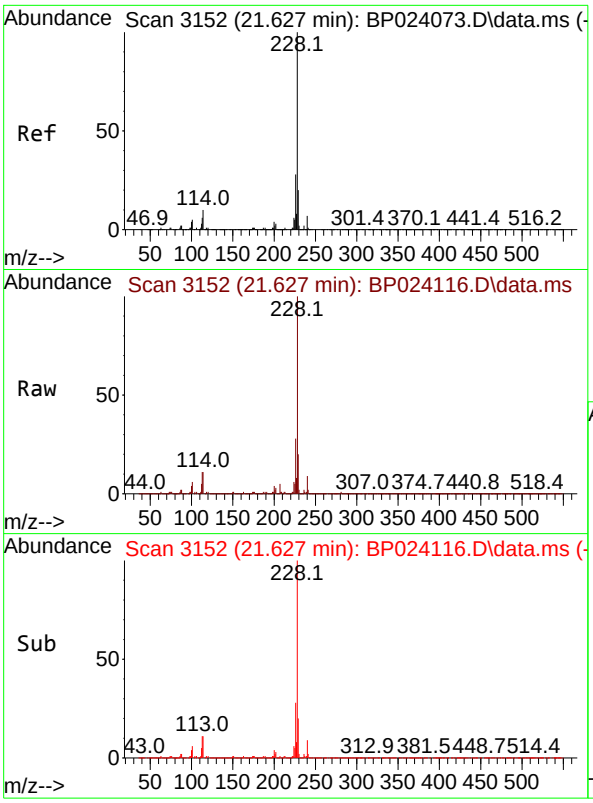


#80
Butylbenzylphthalate
Concen: 44.305 ng
RT: 20.645 min Scan# 2985
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:149 Resp: 1635686

Ion	Ratio	Lower	Upper
149	100		
91	71.0	59.4	89.0
206	19.8	16.2	24.2

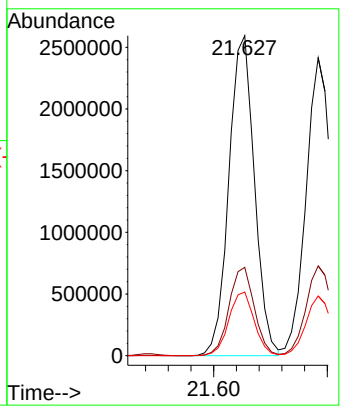




#81
Benzo(a)anthracene
Concen: 42.590 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:228 Resp: 405079

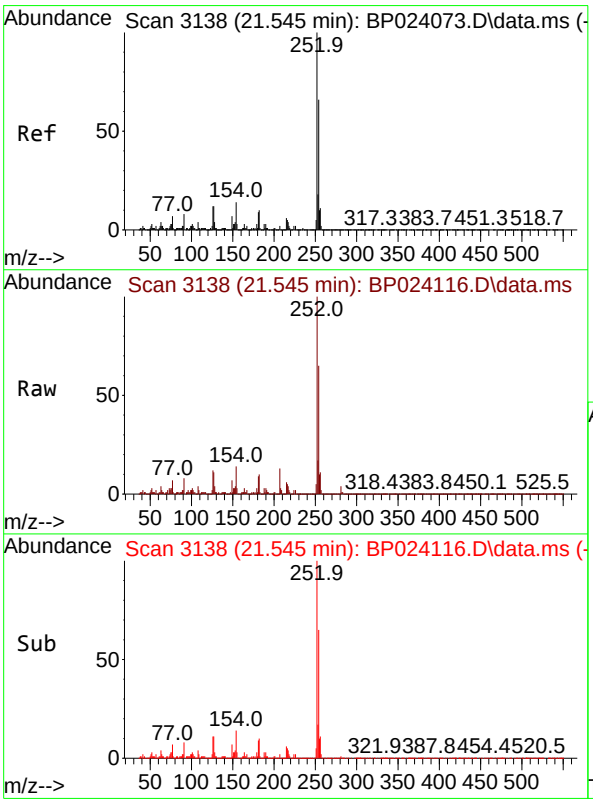
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.4
229	19.9	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

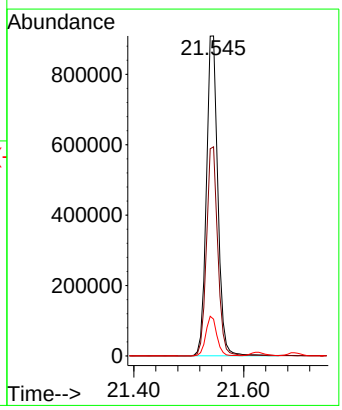
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

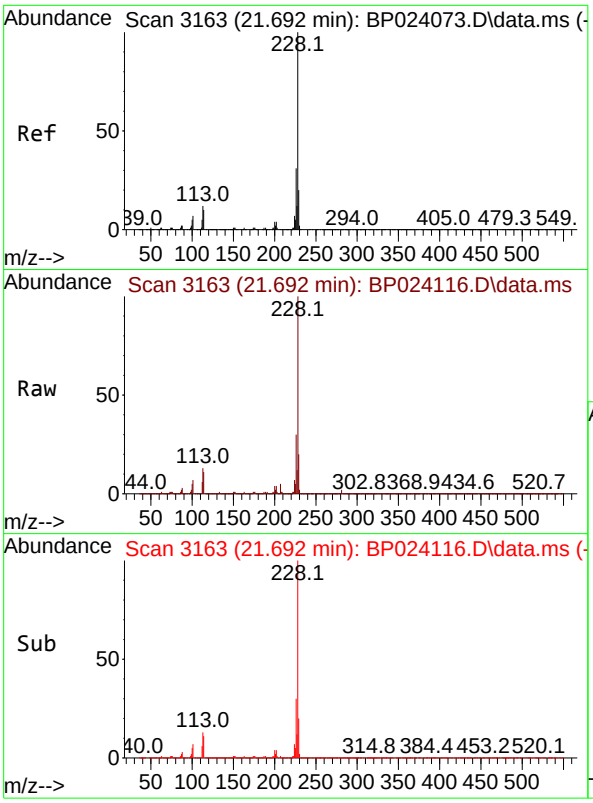


#82
3,3'-Dichlorobenzidine
Concen: 43.877 ng
RT: 21.545 min Scan# 3138
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:252 Resp: 1304030

Ion	Ratio	Lower	Upper
252	100		
254	65.3	52.4	78.6
126	11.5	9.6	14.4

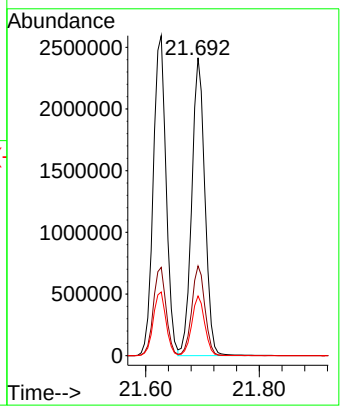




#83
Chrysene
Concen: 42.199 ng
RT: 21.692 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:228 Resp: 387022

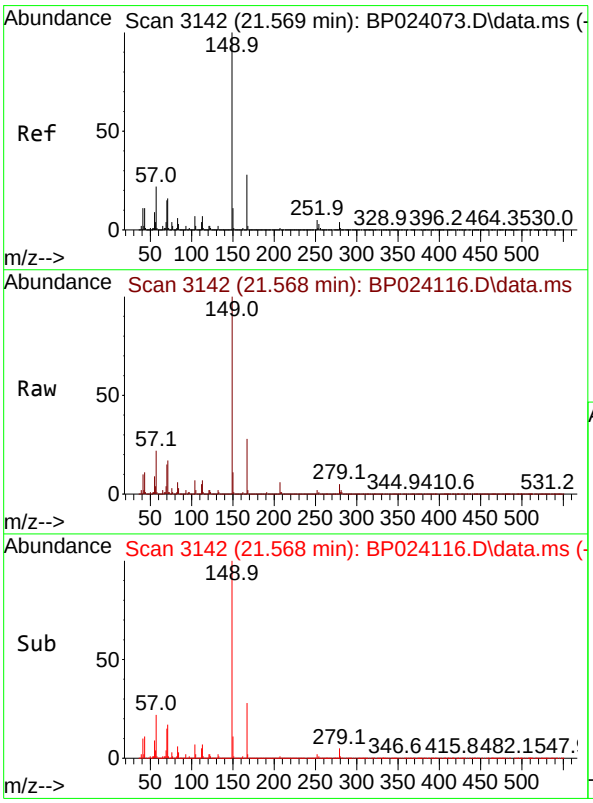
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.5	36.7
229	20.0	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

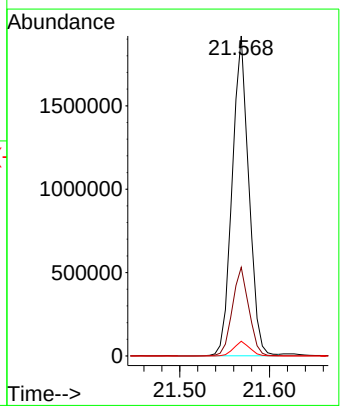
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

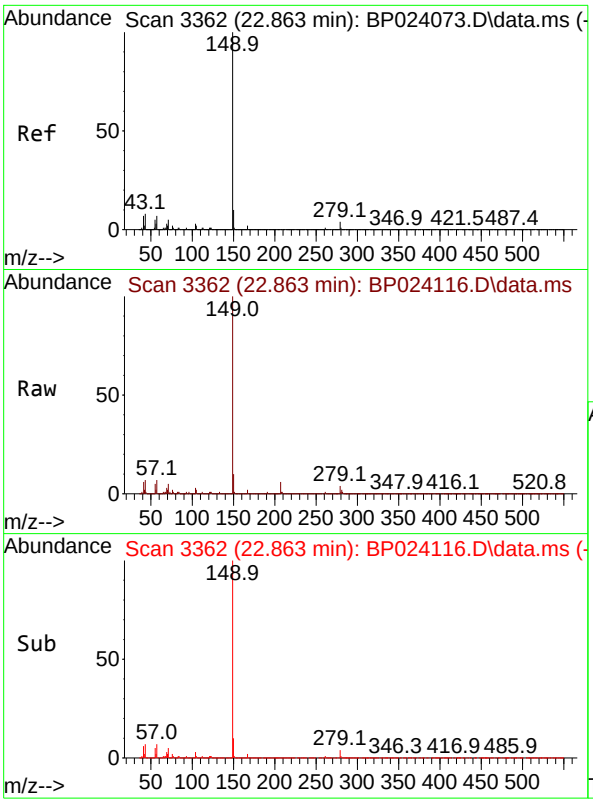


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.104 ng
RT: 21.568 min Scan# 3142
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:149 Resp: 2469171

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.2
279	4.6	3.6	5.4

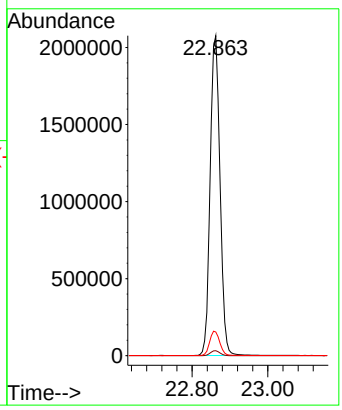




#85
Di-n-octyl phthalate
Concen: 41.675 ng
RT: 22.863 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:149 Resp: 372940

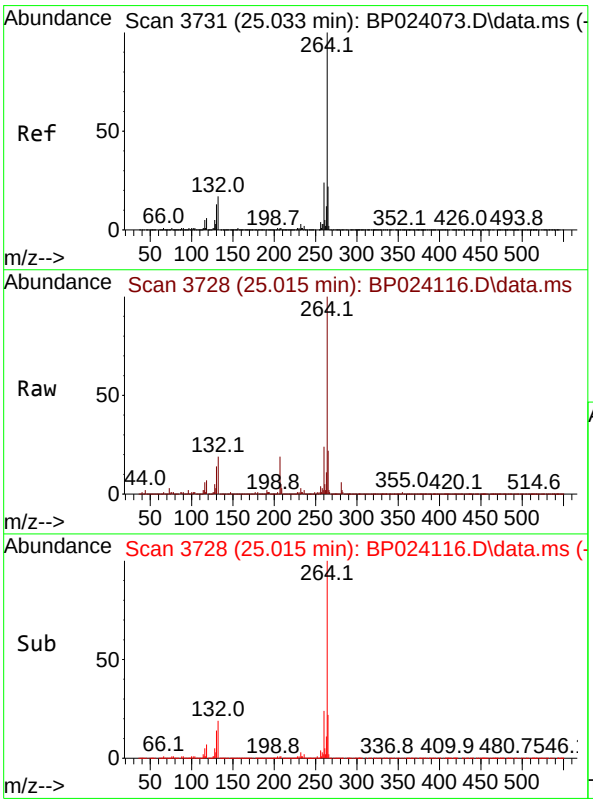
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	7.9	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

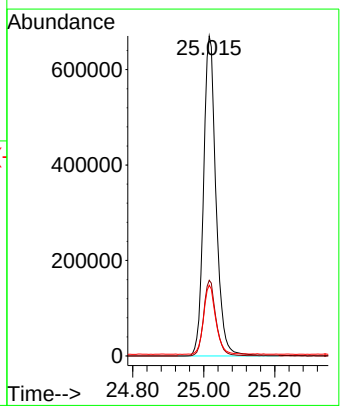
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

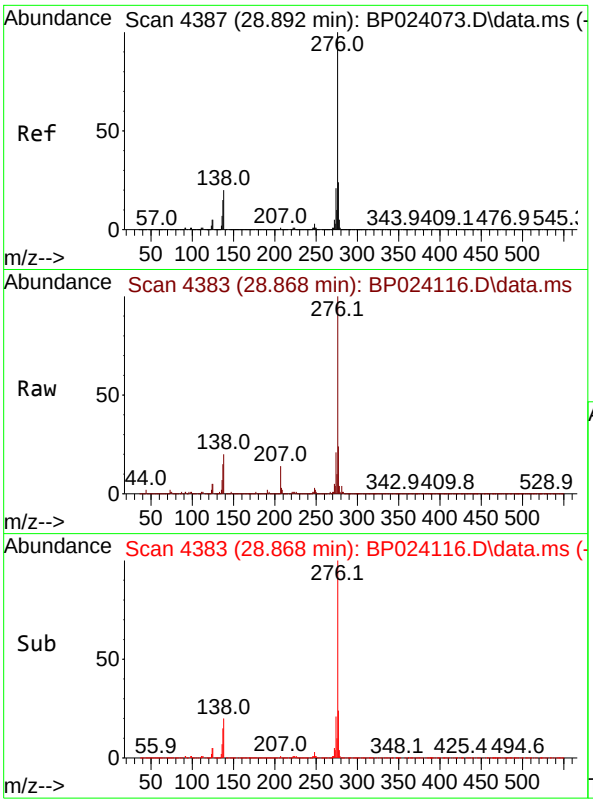


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.015 min Scan# 3728
Delta R.T. -0.018 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:264 Resp: 1638344

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	22.1	17.8	26.8

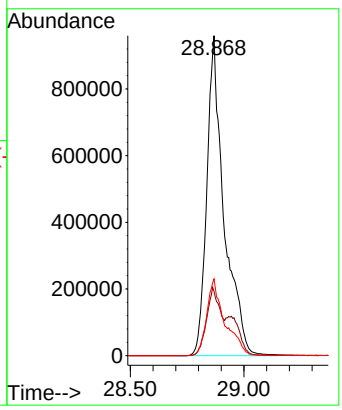




#87
Indeno(1,2,3-cd)pyrene
Concen: 43.294 ng
RT: 28.868 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:276 Resp: 504604

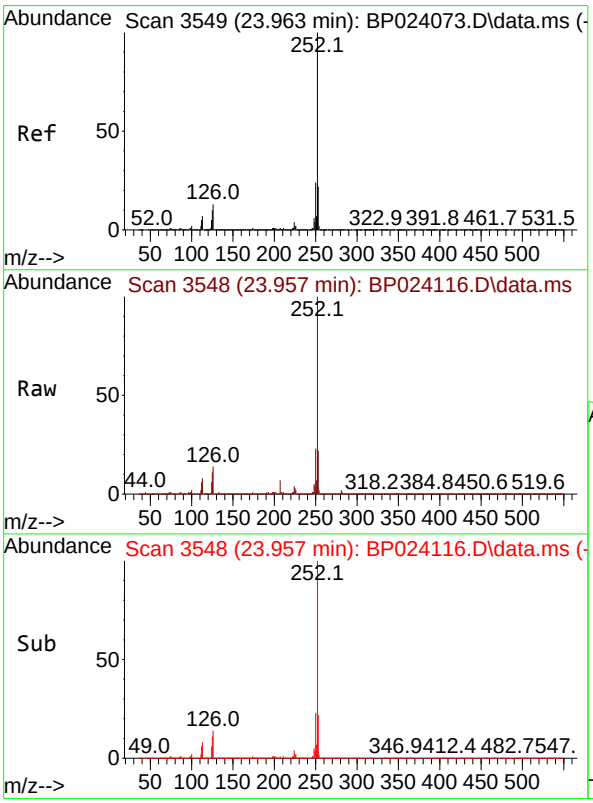
Ion	Ratio	Lower	Upper
276	100		
138	17.4	14.2	21.4
277	25.2	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

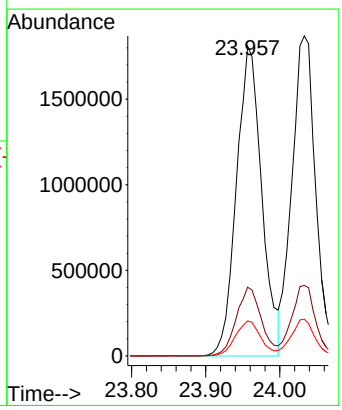
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

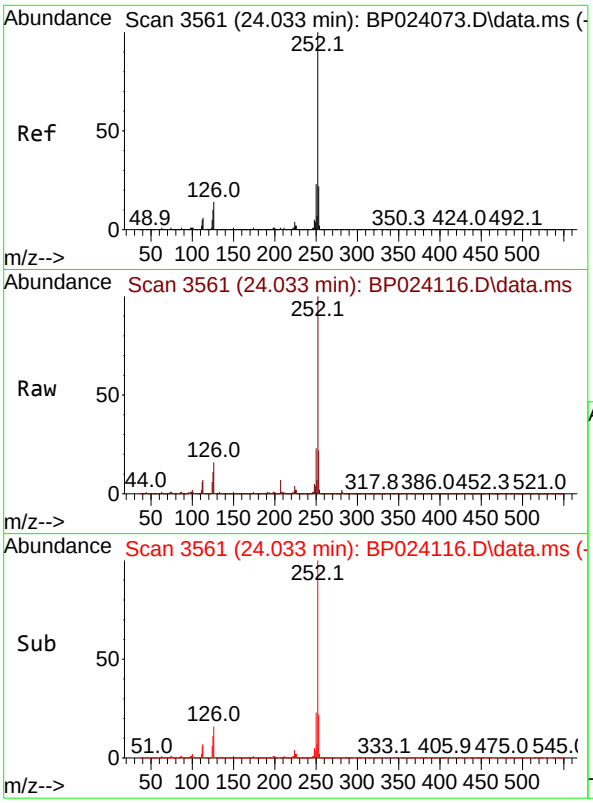


#88
Benzo(b)fluoranthene
Concen: 41.265 ng
RT: 23.957 min Scan# 3548
Delta R.T. -0.006 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:252 Resp: 4293222

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	11.3	8.4	12.6

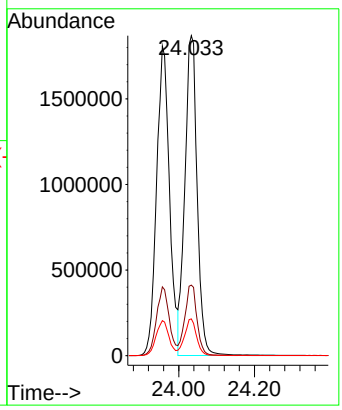




#89
Benzo(k)fluoranthene
Concen: 41.388 ng
RT: 24.033 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:252 Resp: 419122

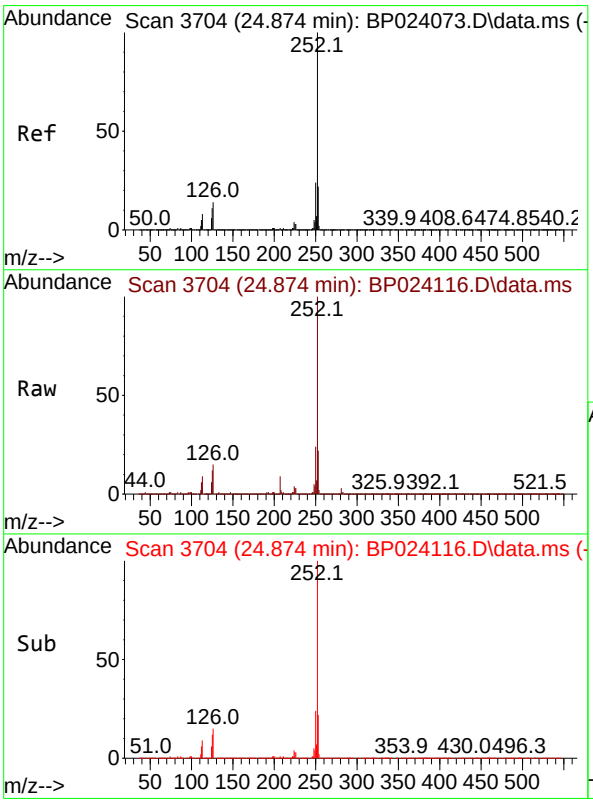
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	11.5	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

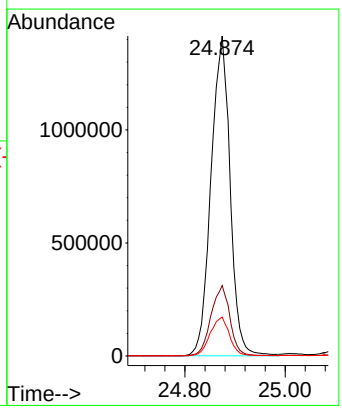
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

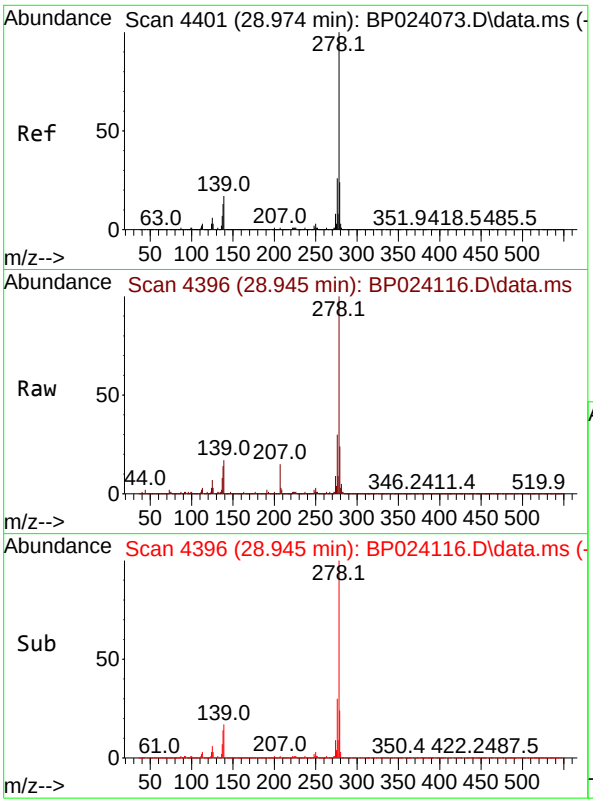


#90
Benzo(a)pyrene
Concen: 42.307 ng
RT: 24.874 min Scan# 3704
Delta R.T. -0.000 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:252 Resp: 3735472

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	12.2	8.8	13.2

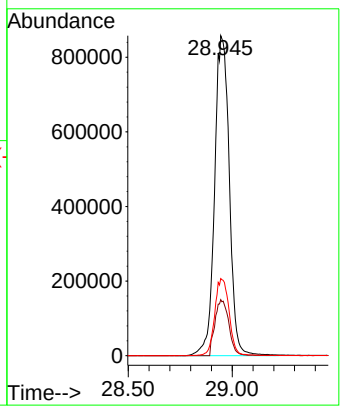




#91
Dibenzo(a,h)anthracene
Concen: 43.092 ng
RT: 28.945 min Scan# 4
Delta R.T. -0.030 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:278 Resp: 422302

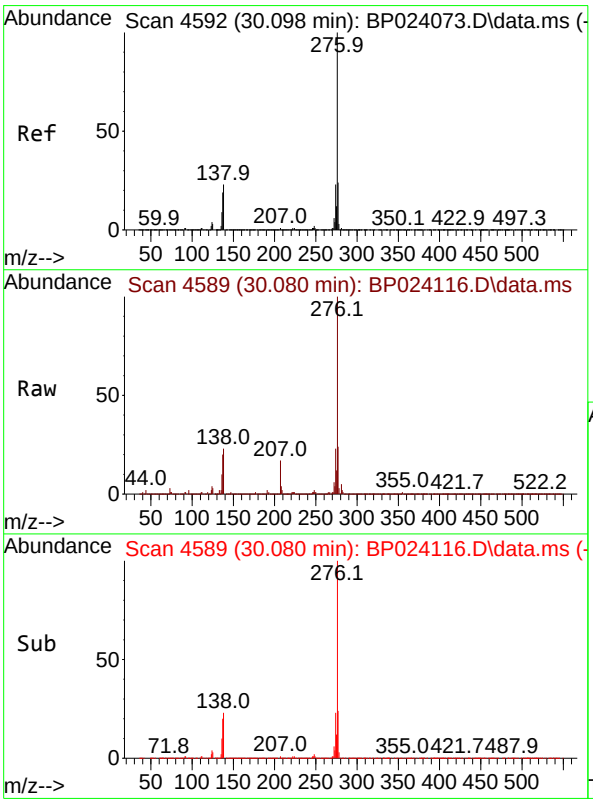
Ion	Ratio	Lower	Upper
278	100		
139	17.5	13.4	20.0
279	24.1	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

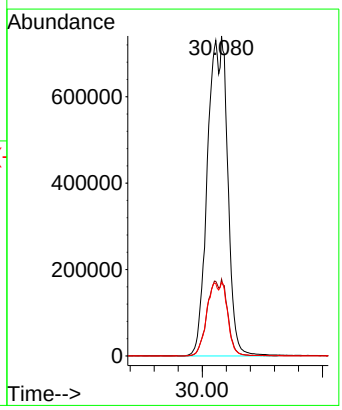
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 43.164 ng m
RT: 30.080 min Scan# 4589
Delta R.T. -0.018 min
Lab File: BP024116.D
Acq: 27 Feb 2025 10:42

Tgt Ion:276 Resp: 4292490

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	22.9	18.1	27.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	92	0.00
2		1,4-Dioxane	0.503	0.587	-16.7	102	0.00
3		Pyridine	1.307	1.520	-16.3	99	0.00
4		n-Nitrosodimethylamine	0.464	0.520	-12.1	97	0.00
5	S	2-Fluorophenol	1.282	1.418	-10.6	94	0.00
6		Aniline	1.509	1.639	-8.6	96	0.00
7	S	Phenol-d6	1.647	1.800	-9.3	95	-0.01
8		2-Chlorophenol	1.357	1.452	-7.0	92	0.00
9		Benzaldehyde	0.752	0.753	-0.1	90	0.00
10	C	Phenol	1.657	1.793	-8.2	96	0.00
11		bis(2-Chloroethyl)ether	1.305	1.400	-7.3	95	0.00
12		1,3-Dichlorobenzene	1.490	1.595	-7.0	94	0.00
13	C	1,4-Dichlorobenzene	1.507	1.612	-7.0	94	0.00
14		1,2-Dichlorobenzene	1.447	1.541	-6.5	94	0.00
15		Benzyl Alcohol	1.008	1.079	-7.0	93	0.00
16		2,2'-oxybis(1-Chloropropane	1.267	1.438	-13.5	102	-0.01
17		2-Methylphenol	1.010	1.094	-8.3	94	-0.01
18		Hexachloroethane	0.543	0.576	-6.1	94	-0.01
19	P	n-Nitroso-di-n-propylamine	0.886	0.980	-10.6	97	0.00
20		3+4-Methylphenols	1.373	1.476	-7.5	94	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22		Acetophenone	0.514	0.542	-5.4	94	-0.01
23	S	Nitrobenzene-d5	0.358	0.395	-10.3	97	0.00
24		Nitrobenzene	0.353	0.388	-9.9	96	0.00
25		Isophorone	0.586	0.623	-6.3	95	-0.01
26	C	2-Nitrophenol	0.163	0.172	-5.5	90	0.00
27		2,4-Dimethylphenol	0.213	0.227	-6.6	93	-0.01
28		bis(2-Chloroethoxy)methane	0.425	0.451	-6.1	96	0.00
29	C	2,4-Dichlorophenol	0.291	0.308	-5.8	91	-0.01
30		1,2,4-Trichlorobenzene	0.334	0.346	-3.6	92	0.00
31		Naphthalene	1.075	1.135	-5.6	94	0.00
32		Benzoic acid	0.196	0.193	1.5	88	-0.01
33		4-Chloroaniline	0.379	0.400	-5.5	94	0.00
34	C	Hexachlorobutadiene	0.193	0.195	-1.0	88	0.00
35		Caprolactam	0.088	0.089	-1.1	93	0.00
36	C	4-Chloro-3-methylphenol	0.299	0.318	-6.4	93	0.00
37		2-Methylnaphthalene	0.715	0.735	-2.8	93	0.00
38		1-Methylnaphthalene	0.695	0.716	-3.0	93	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	0.615	0.630	-2.4	91	0.00
41	P	Hexachlorocyclopentadiene	0.229	0.239	-4.4	89	0.00
42	S	2,4,6-Tribromophenol	0.245	0.250	-2.0	95	0.00
43	C	2,4,6-Trichlorophenol	0.375	0.388	-3.5	89	0.00
44		2,4,5-Trichlorophenol	0.410	0.421	-2.7	90	0.00
45	S	2-Fluorobiphenyl	1.431	1.477	-3.2	92	0.00
46		1,1'-Biphenyl	1.554	1.644	-5.8	98	0.00
47		2-Chloronaphthalene	1.175	1.226	-4.3	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	0.278	0.318	-14.4	101	0.00
49		Acenaphthylene	1.731	1.848	-6.8	96	0.00
50		Dimethylphthalate	1.411	1.432	-1.5	96	0.00
51		2,6-Dinitrotoluene	0.287	0.305	-6.3	97	0.00
52	C	Acenaphthene	1.115	1.163	-4.3	97	0.00
53		3-Nitroaniline	0.307	0.333	-8.5	98	0.00
54	P	2,4-Dinitrophenol	0.153	0.150	2.0	93	0.00
55		Dibenzofuran	1.811	1.860	-2.7	95	0.00
56	P	4-Nitrophenol	0.265	0.284	-7.2	99	0.00
57		2,4-Dinitrotoluene	0.373	0.410	-9.9	99	0.00
58		Fluorene	1.414	1.483	-4.9	96	0.00
59		2,3,4,6-Tetrachlorophenol	0.356	0.364	-2.2	94	0.00
60		Diethylphthalate	1.400	1.444	-3.1	98	0.00
61		4-Chlorophenyl-phenylether	0.696	0.711	-2.2	95	0.00
62		4-Nitroaniline	0.318	0.361	-13.5	99	0.00
63		Azobenzene	1.312	1.455	-10.9	102	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	0.116	0.117	-0.9	95	0.00
66	c	n-Nitrosodiphenylamine	0.624	0.657	-5.3	97	0.00
67		4-Bromophenyl-phenylether	0.225	0.229	-1.8	95	0.00
68		Hexachlorobenzene	0.264	0.266	-0.8	95	0.00
69		Atrazine	0.160	0.165	-3.1	91	0.00
70	C	Pentachlorophenol	0.172	0.177	-2.9	98	0.00
71		Phenanthrene	1.128	1.179	-4.5	98	0.00
72		Anthracene	1.081	1.156	-6.9	98	0.00
73		Carbazole	1.030	1.134	-10.1	101	0.00
74		Di-n-butylphthalate	1.201	1.298	-8.1	100	0.00
75	C	Fluoranthene	1.275	1.362	-6.8	101	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77		Benzidine	0.244	0.364	-49.2#	104	0.00
78		Pyrene	1.270	1.346	-6.0	100	0.00
79	S	Terphenyl-d14	1.011	1.053	-4.2	99	0.00
80		Butylbenzylphthalate	0.487	0.539	-10.7	109	0.00
81		Benzo(a)anthracene	1.254	1.335	-6.5	104	0.00
82		3,3'-Dichlorobenzidine	0.392	0.430	-9.7	101	0.00
83		Chrysene	1.209	1.276	-5.5	102	0.00
84		Bis(2-ethylhexyl)phthalate	0.738	0.814	-10.3	106	0.00
85	c	Di-n-octyl phthalate	1.180	1.229	-4.2	108	0.00
86	I	Perylene-d12	1.000	1.000	0.0	110	-0.02
87		Indeno(1,2,3-cd)pyrene	1.423	1.540	-8.2	107	-0.02
88		Benzo(b)fluoranthene	1.270	1.310	-3.1	105	0.00
89		Benzo(k)fluoranthene	1.236	1.279	-3.5	105	0.00
90	C	Benzo(a)pyrene	1.078	1.140	-5.8	106	0.00
91		Dibenzo(a,h)anthracene	1.196	1.289	-7.8	106	-0.03
92		Benzo(g,h,i)perylene	1.214	1.310	-7.9	106	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	92	0.00
2		1,4-Dioxane	40.000	46.712	-16.8	102	0.00
3		Pyridine	40.000	46.509	-16.3	99	0.00
4		n-Nitrosodimethylamine	40.000	44.896	-12.2	97	0.00
5	S	2-Fluorophenol	80.000	88.513	-10.6	94	0.00
6		Aniline	40.000	43.456	-8.6	96	0.00
7	S	Phenol-d6	80.000	87.429	-9.3	95	-0.01
8		2-Chlorophenol	40.000	42.816	-7.0	92	0.00
9		Benzaldehyde	40.000	40.040	-0.1	90	0.00
10	C	Phenol	40.000	43.297	-8.2	96	0.00
11		bis(2-Chloroethyl)ether	40.000	42.930	-7.3	95	0.00
12		1,3-Dichlorobenzene	40.000	42.817	-7.0	94	0.00
13	C	1,4-Dichlorobenzene	40.000	42.778	-6.9	94	0.00
14		1,2-Dichlorobenzene	40.000	42.617	-6.5	94	0.00
15		Benzyl Alcohol	40.000	42.783	-7.0	93	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	45.403	-13.5	102	-0.01
17		2-Methylphenol	40.000	43.341	-8.4	94	-0.01
18		Hexachloroethane	40.000	42.413	-6.0	94	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	44.274	-10.7	97	0.00
20		3+4-Methylphenols	40.000	42.986	-7.5	94	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22		Acetophenone	40.000	42.188	-5.5	94	-0.01
23	S	Nitrobenzene-d5	80.000	88.146	-10.2	97	0.00
24		Nitrobenzene	40.000	43.969	-9.9	96	0.00
25		Isophorone	40.000	42.524	-6.3	95	-0.01
26	C	2-Nitrophenol	40.000	42.260	-5.6	90	0.00
27		2,4-Dimethylphenol	40.000	42.515	-6.3	93	-0.01
28		bis(2-Chloroethoxy)methane	40.000	42.523	-6.3	96	0.00
29	C	2,4-Dichlorophenol	40.000	42.370	-5.9	91	-0.01
30		1,2,4-Trichlorobenzene	40.000	41.506	-3.8	92	0.00
31		Naphthalene	40.000	42.222	-5.6	94	0.00
32		Benzoic acid	40.000	36.533	8.7	88	-0.01
33		4-Chloroaniline	40.000	42.213	-5.5	94	0.00
34	C	Hexachlorobutadiene	40.000	40.327	-0.8	88	0.00
35		Caprolactam	40.000	37.729	5.7	93	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.445	-6.1	93	0.00
37		2-Methylnaphthalene	40.000	41.152	-2.9	93	0.00
38		1-Methylnaphthalene	40.000	41.163	-2.9	93	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.024	-2.6	91	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.873	-4.7	89	0.00
42	S	2,4,6-Tribromophenol	80.000	81.484	-1.9	95	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.444	-3.6	89	0.00
44		2,4,5-Trichlorophenol	40.000	41.099	-2.7	90	0.00
45	S	2-Fluorobiphenyl	80.000	82.586	-3.2	92	0.00
46		1,1'-Biphenyl	40.000	42.301	-5.8	98	0.00
47		2-Chloronaphthalene	40.000	41.746	-4.4	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 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	45.906	-14.8	101	0.00
49		Acenaphthylene	40.000	42.701	-6.8	96	0.00
50		Dimethylphthalate	40.000	40.593	-1.5	96	0.00
51		2,6-Dinitrotoluene	40.000	42.393	-6.0	97	0.00
52	C	Acenaphthene	40.000	41.744	-4.4	97	0.00
53		3-Nitroaniline	40.000	43.418	-8.5	98	0.00
54	P	2,4-Dinitrophenol	40.000	36.396	9.0	93	0.00
55		Dibenzofuran	40.000	41.088	-2.7	95	0.00
56	P	4-Nitrophenol	40.000	42.831	-7.1	99	0.00
57		2,4-Dinitrotoluene	40.000	43.928	-9.8	99	0.00
58		Fluorene	40.000	41.958	-4.9	96	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.917	-2.3	94	0.00
60		Diethylphthalate	40.000	41.241	-3.1	98	0.00
61		4-Chlorophenyl-phenylether	40.000	40.871	-2.2	95	0.00
62		4-Nitroaniline	40.000	40.307	-0.8	99	0.00
63		Azobenzene	40.000	44.362	-10.9	102	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	40.000	38.013	5.0	95	0.00
66	c	n-Nitrosodiphenylamine	40.000	42.110	-5.3	97	0.00
67		4-Bromophenyl-phenylether	40.000	40.815	-2.0	95	0.00
68		Hexachlorobenzene	40.000	40.333	-0.8	95	0.00
69		Atrazine	40.000	41.224	-3.1	91	0.00
70	C	Pentachlorophenol	40.000	41.211	-3.0	98	0.00
71		Phenanthrene	40.000	41.831	-4.6	98	0.00
72		Anthracene	40.000	42.796	-7.0	98	0.00
73		Carbazole	40.000	44.042	-10.1	101	0.00
74		Di-n-butylphthalate	40.000	43.222	-8.1	100	0.00
75	C	Fluoranthene	40.000	42.707	-6.8	101	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77		Benzidine	40.000	59.727	-49.3#	104	0.00
78		Pyrene	40.000	42.375	-5.9	100	0.00
79	S	Terphenyl-d14	80.000	83.332	-4.2	99	0.00
80		Butylbenzylphthalate	40.000	44.305	-10.8	109	0.00
81		Benzo(a)anthracene	40.000	42.590	-6.5	104	0.00
82		3,3'-Dichlorobenzidine	40.000	43.877	-9.7	101	0.00
83		Chrysene	40.000	42.199	-5.5	102	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.104	-10.3	106	0.00
85	c	Di-n-octyl phthalate	40.000	41.675	-4.2	108	0.00
86	I	Perylene-d12	20.000	20.000	0.0	110	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	43.294	-8.2	107	-0.02
88		Benzo(b)fluoranthene	40.000	41.265	-3.2	105	0.00
89		Benzo(k)fluoranthene	40.000	41.388	-3.5	105	0.00
90	C	Benzo(a)pyrene	40.000	42.307	-5.8	106	0.00
91		Dibenzo(a,h)anthracene	40.000	43.092	-7.7	106	-0.03
92		Benzo(g,h,i)perylene	40.000	43.164	-7.9	106	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024116.D
Acq On : 27 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Feb 27 11:48:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

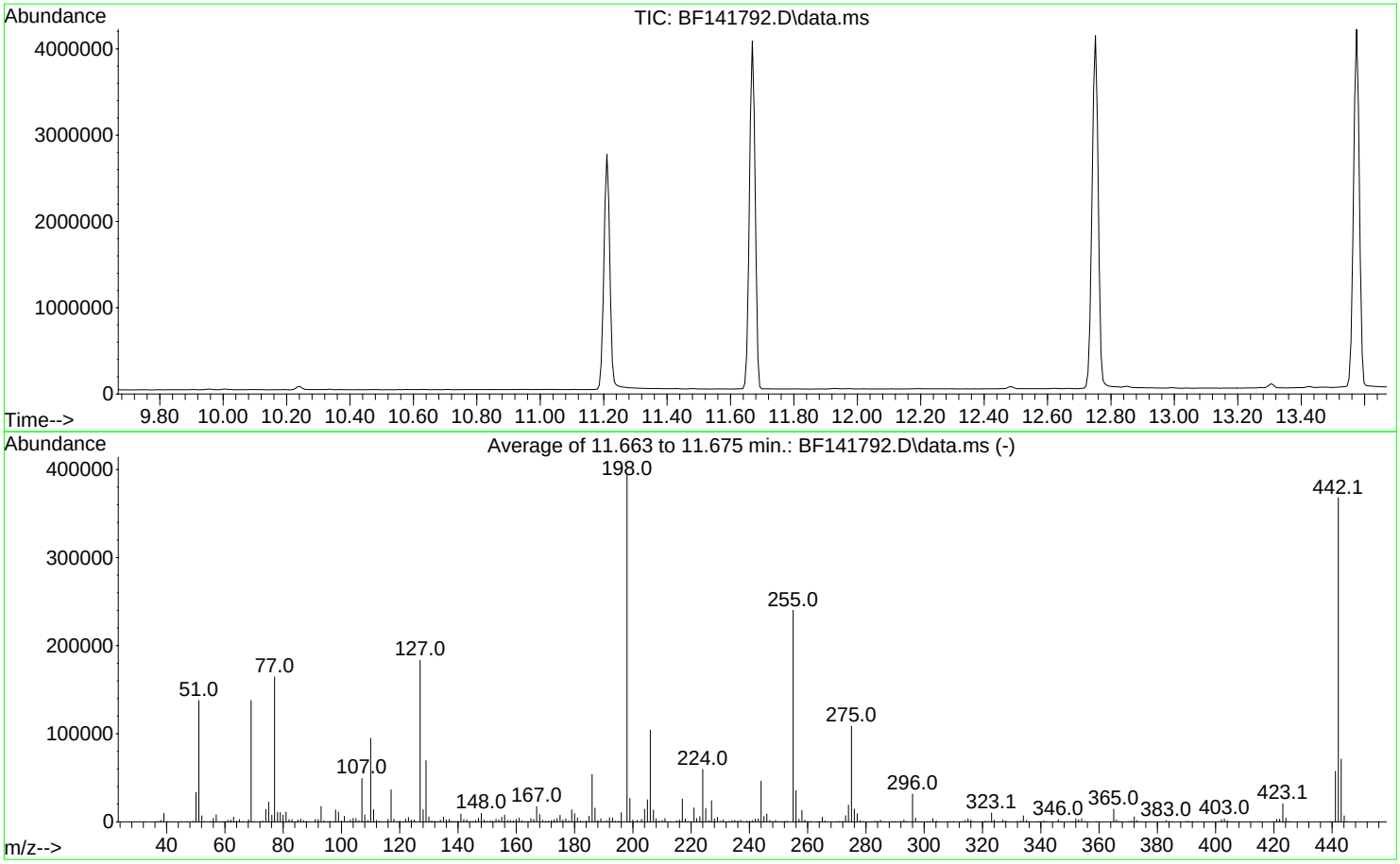
QC SAMPLE DATA

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



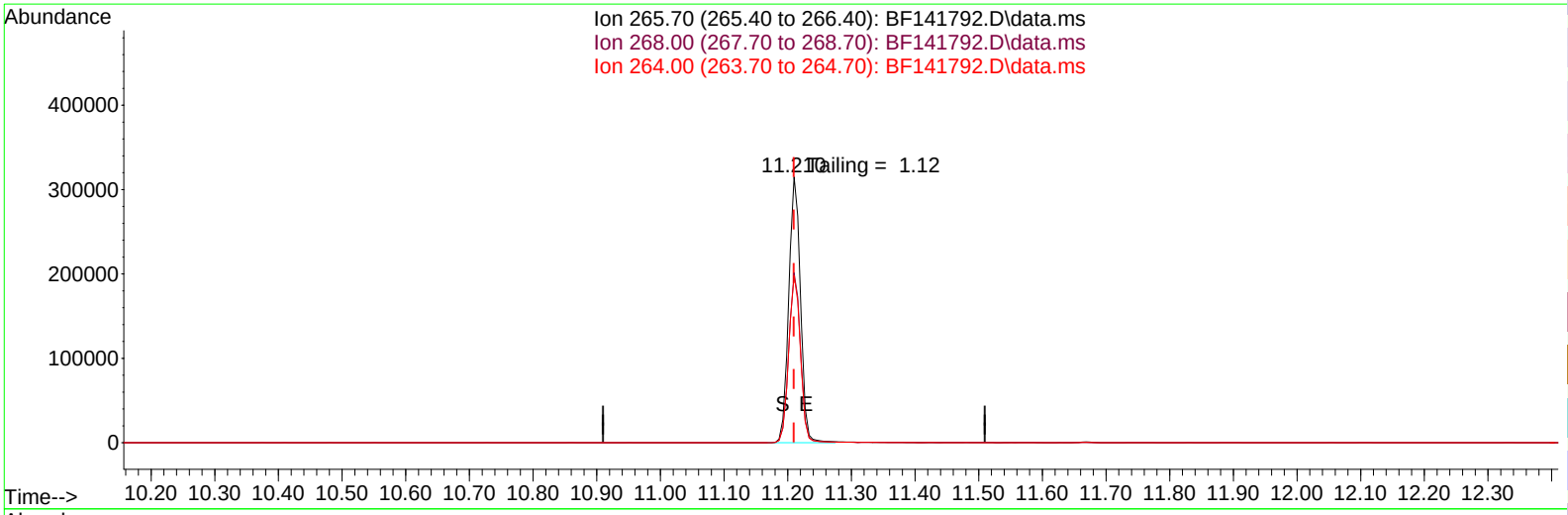
AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1620

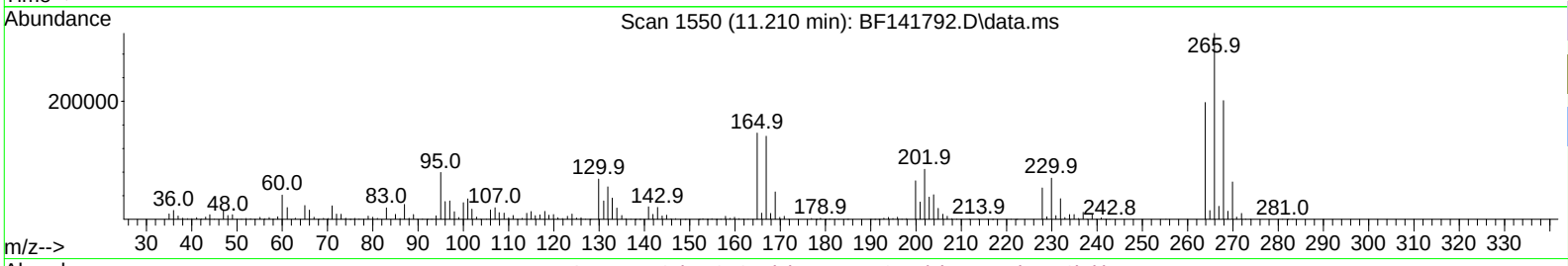
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	137699	PASS
68	69	0.00	2	1.7	2348	PASS
69	198	0.00	100	34.9	137773	PASS
70	69	0.00	2	0.4	593	PASS
127	198	10	80	46.5	183483	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	394304	PASS
199	198	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

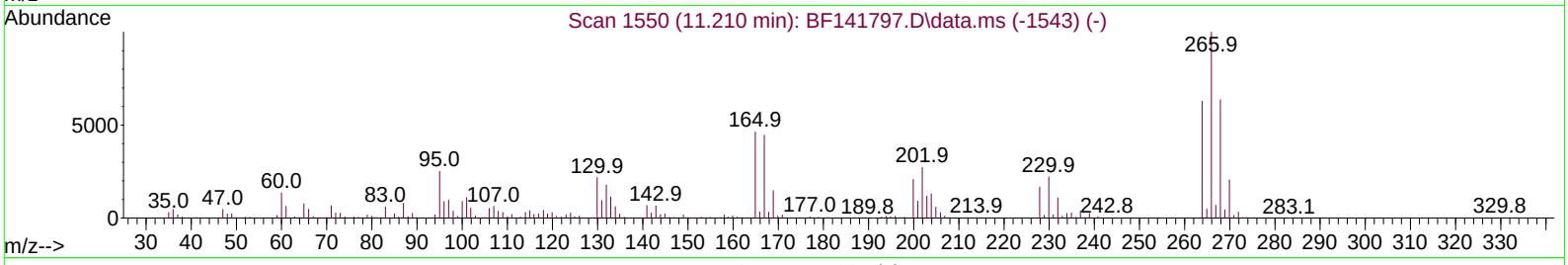
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

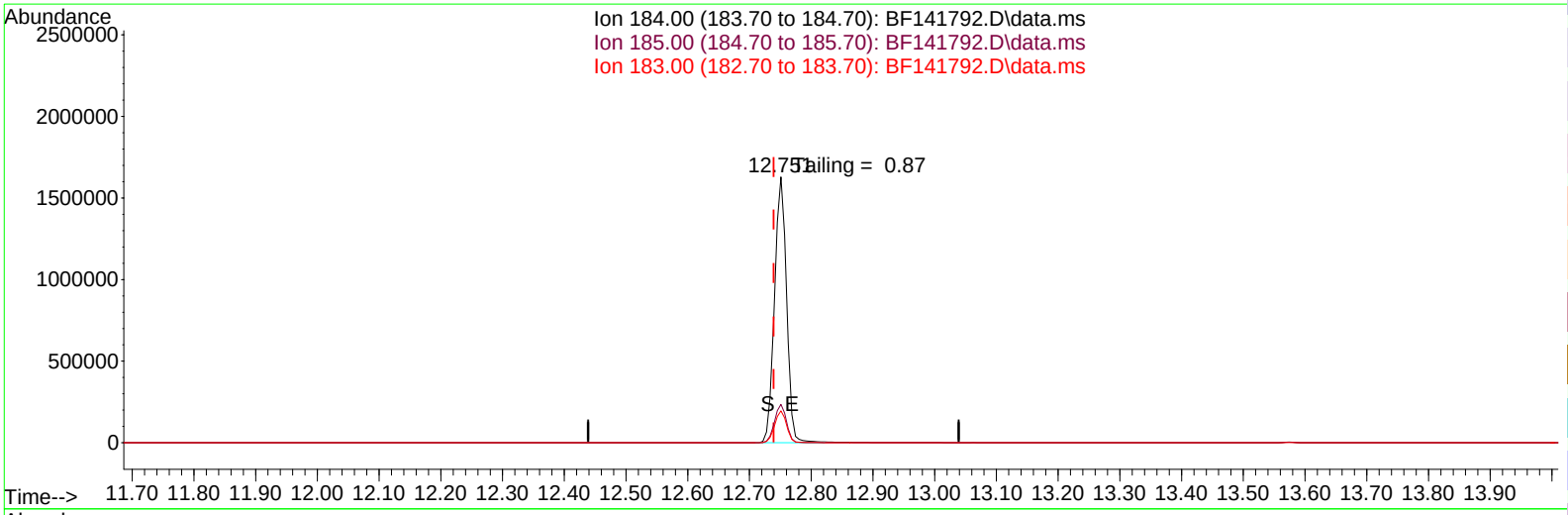
response 409665

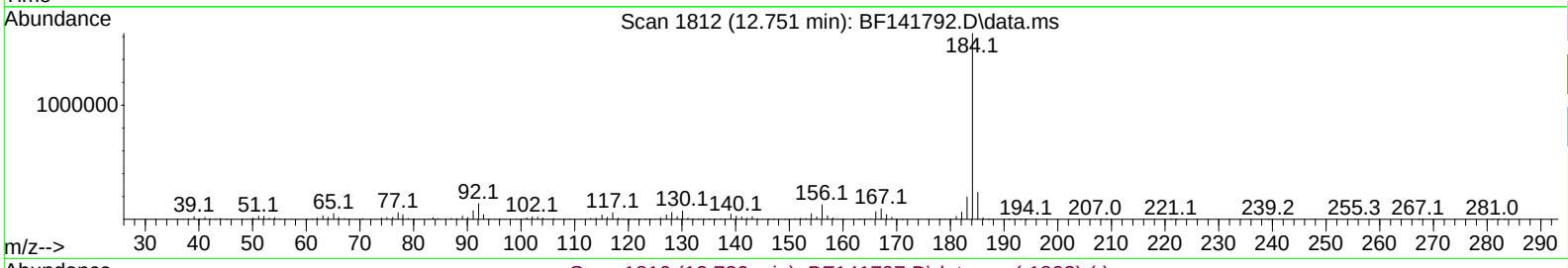
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	63.84
264.00	62.80	62.85
0.00	0.00	0.00

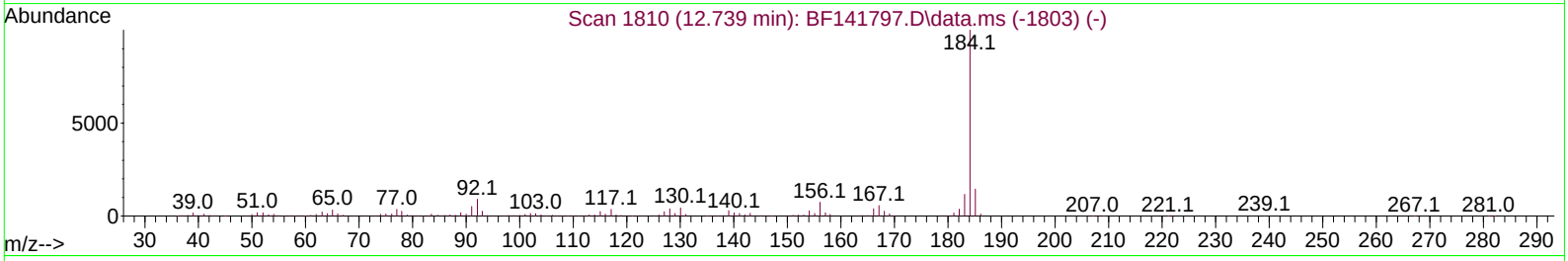
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022725\
Data File : BF141792.D
Acq On : 27 Feb 2025 14:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

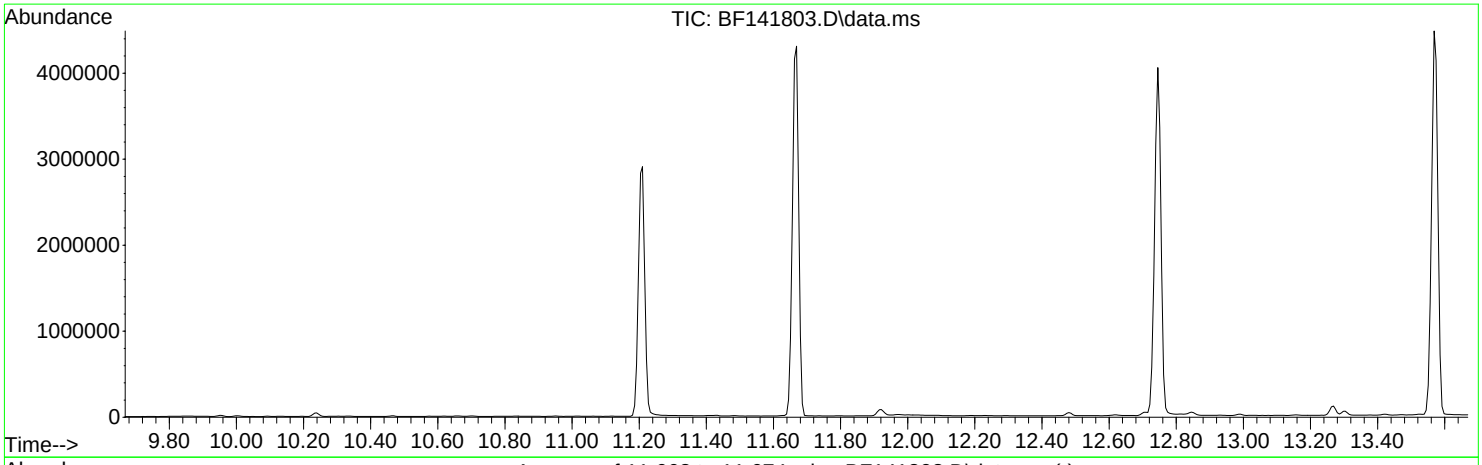
Date	Instrument Name	DFTPP Data File
2/27/2025	BNA_F	BF141792.D
Compound Name	**Response**	**Retention Time**
DDT	938485	13.575
DDD	9936	13.304
DDE	0	12.827
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
9936	948421	1.05

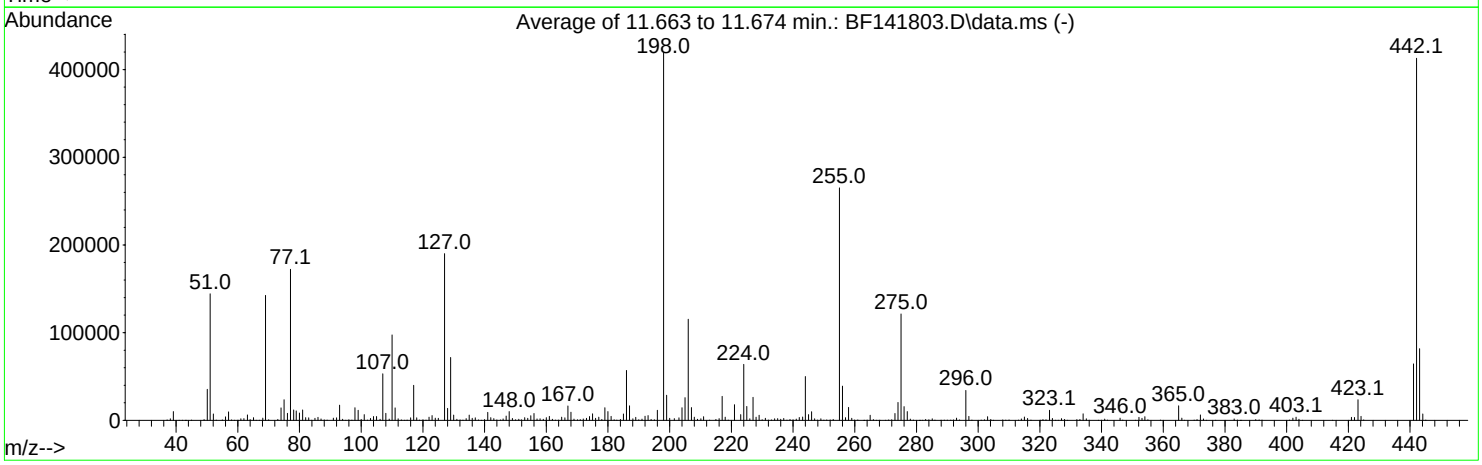
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141803.D
Acq On : 28 Feb 2025 09:14
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

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





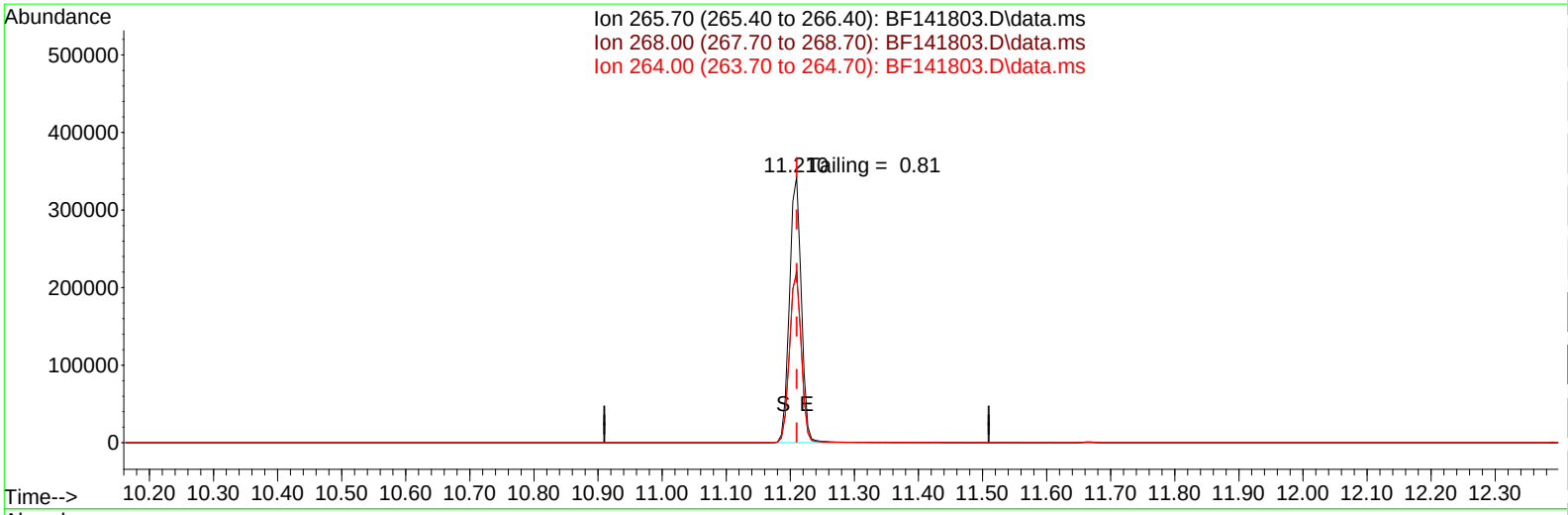
AutoFind: Scans 1627, 1628, 1629; Background Corrected with Scan 1619

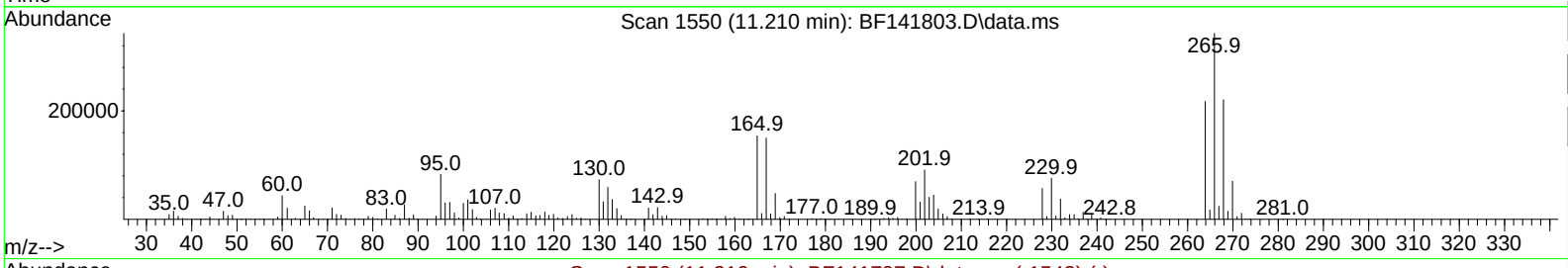
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.4	144251	PASS
68	69	0.00	2	1.9	2642	PASS
69	198	0.00	100	34.0	142486	PASS
70	69	0.00	2	0.5	772	PASS
127	198	10	80	45.3	190035	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	419456	PASS
199	198	5	9	6.8	28600	PASS
275	198	10	60	28.9	121301	PASS
365	198	1	100	4.0	16652	PASS
441	198	0.01	100	15.4	64435	PASS
442	442	50	100	100.0	412907	PASS
443	442	15	24	19.8	81691	PASS

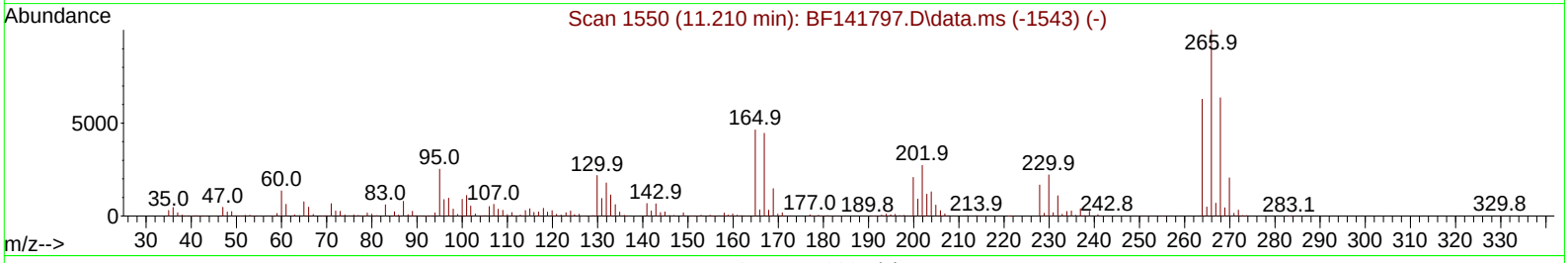
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141803.D
Acq On : 28 Feb 2025 09:14
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 28 11:14:56 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: BF141803.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.000) 17699.40 ng

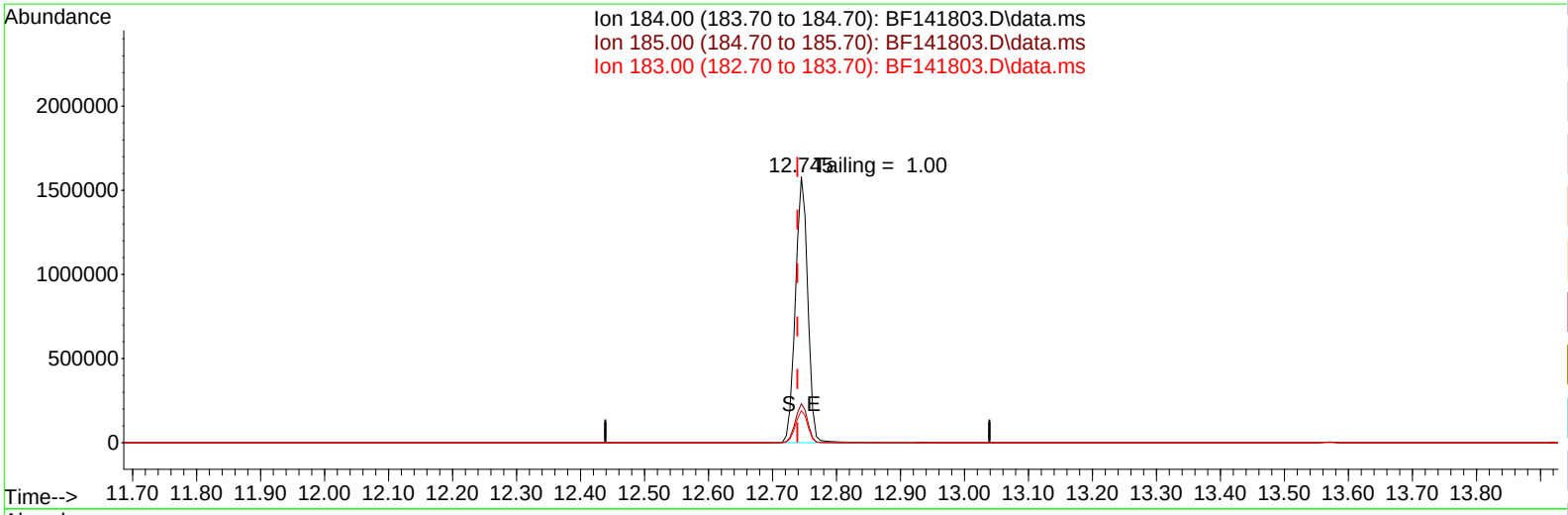
response 444866

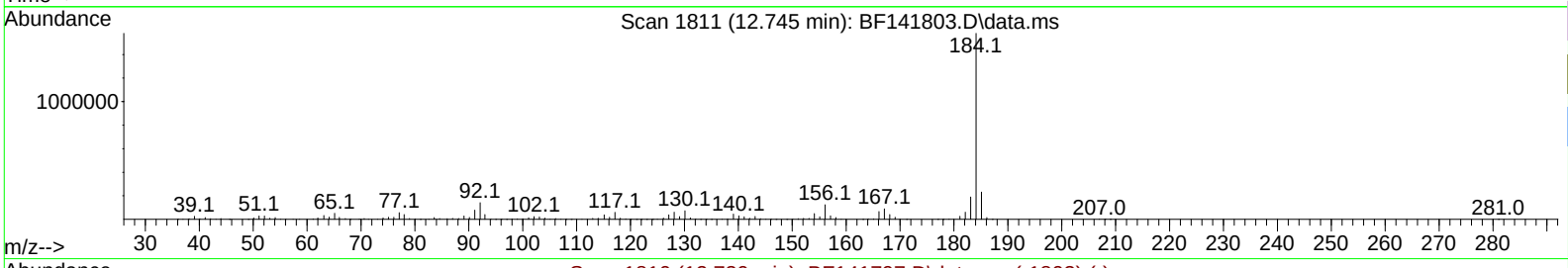
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.60	64.33
264.00	62.80	63.45
0.00	0.00	0.00

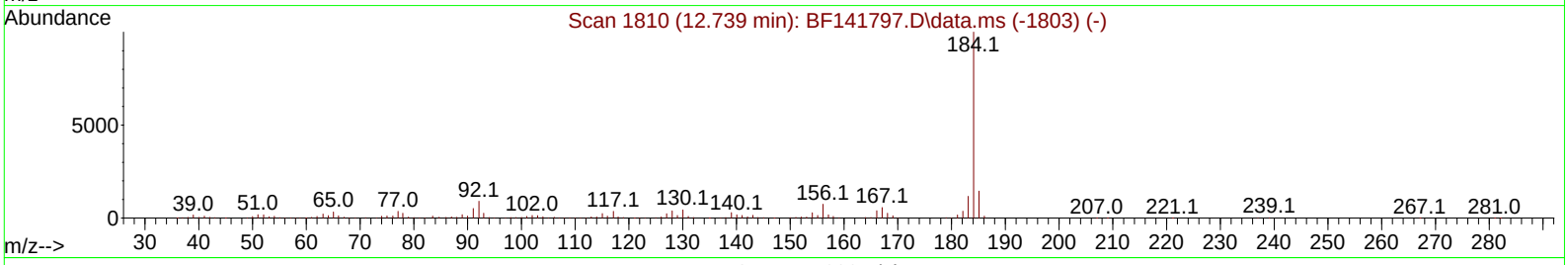
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF022825\
Data File : BF141803.D
Acq On : 28 Feb 2025 09:14
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 28 11:14:56 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: BF141803.D\data.ms

(77) Benzidine

12.745min (+ 0.006) 81741.12 ng

response 2125556

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.68
183.00	11.70	12.05
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

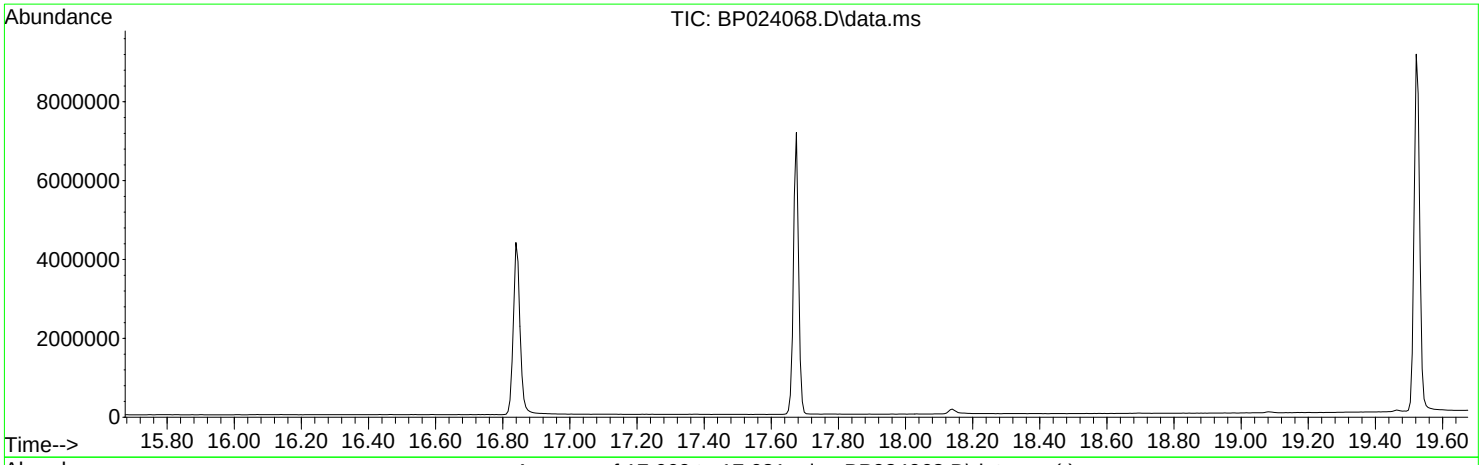
Date	Instrument Name	DFTPP Data File
2/28/2025	BNA_F	BF141803.D
Compound Name	**Response**	**Retention Time**
DDT	1100459	13.568
DDD	9936	13.268
DDE	542	12.933
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10478	1110937	0.94

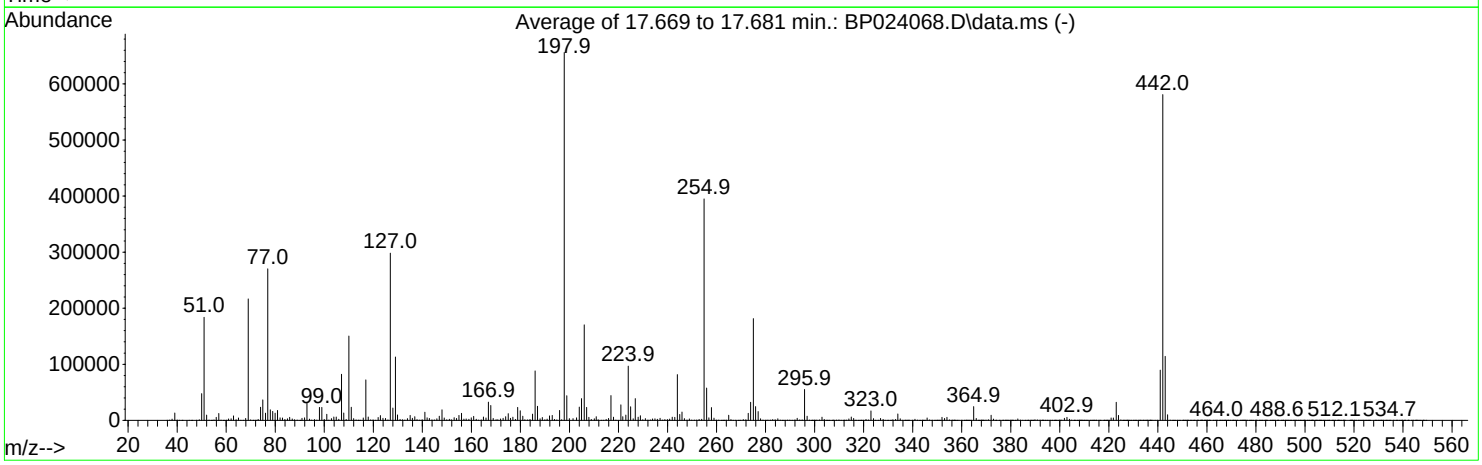
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024068.D
Acq On : 17 Feb 2025 10:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 18 02:25:07 2025





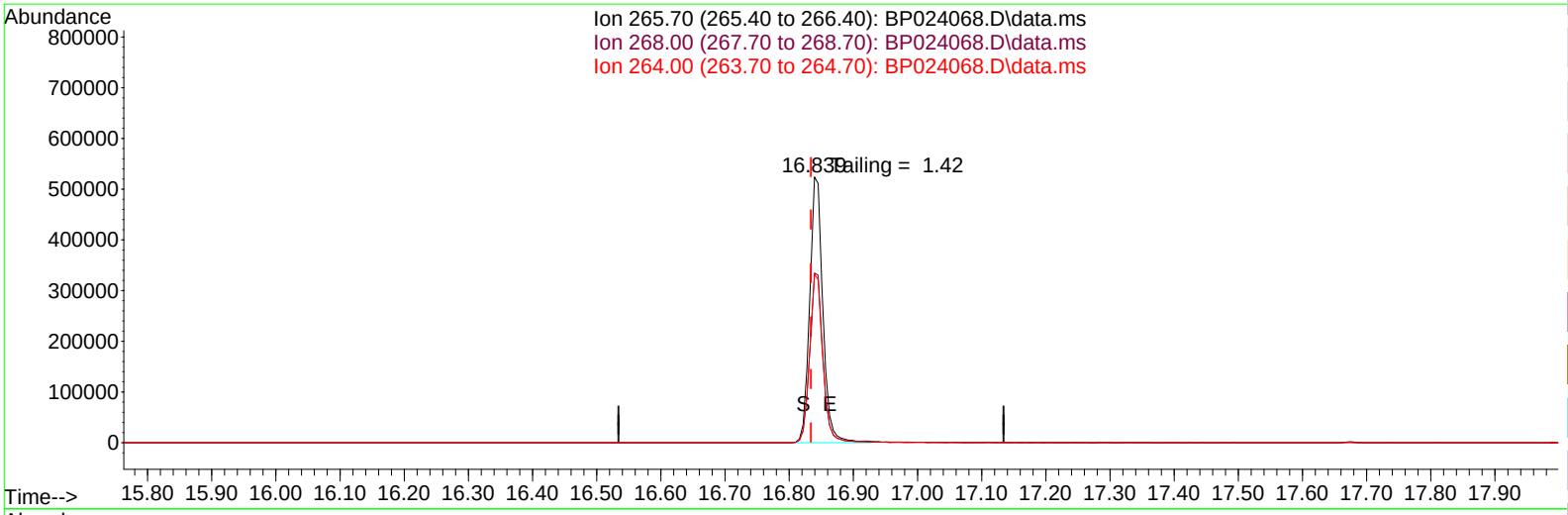
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2469

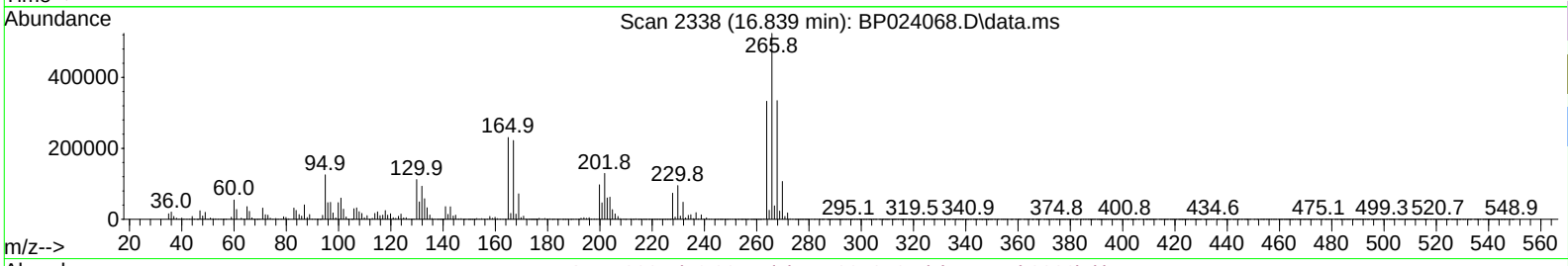
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.0	183862	PASS
68	69	0.00	2	1.6	3481	PASS
69	198	0.00	100	33.0	216627	PASS
70	69	0.00	2	0.5	1014	PASS
127	198	10	80	45.4	298086	PASS
197	198	0.00	2	0.2	1115	PASS
198	198	100	100	100.0	656087	PASS
199	198	5	9	6.7	44100	PASS
275	198	10	60	27.6	181397	PASS
365	198	1	100	3.8	24643	PASS
441	198	0.01	100	13.7	89573	PASS
442	442	100	100	100.0	580885	PASS
443	442	15	24	19.6	114083	PASS

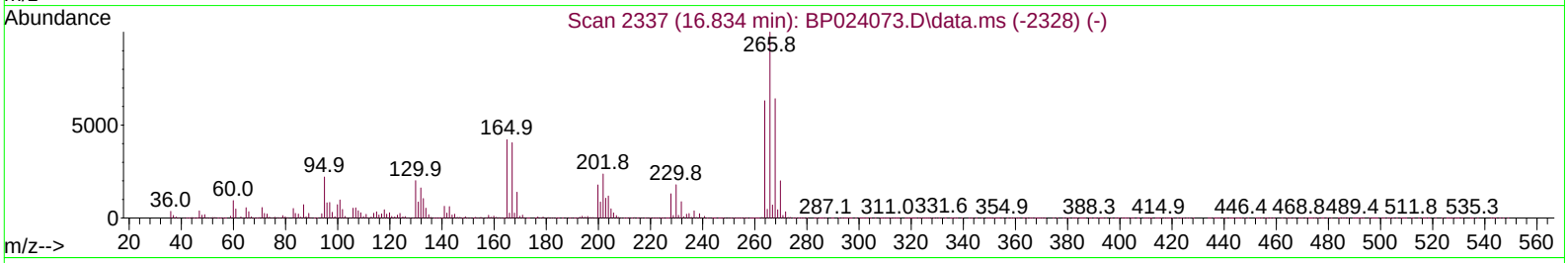
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024068.D
Acq On : 17 Feb 2025 10:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Feb 18 02:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration







TIC: BP024068.D\data.ms

(70) Pentachlorophenol (C)

16.839min (+ 0.005) 214492.84 ng

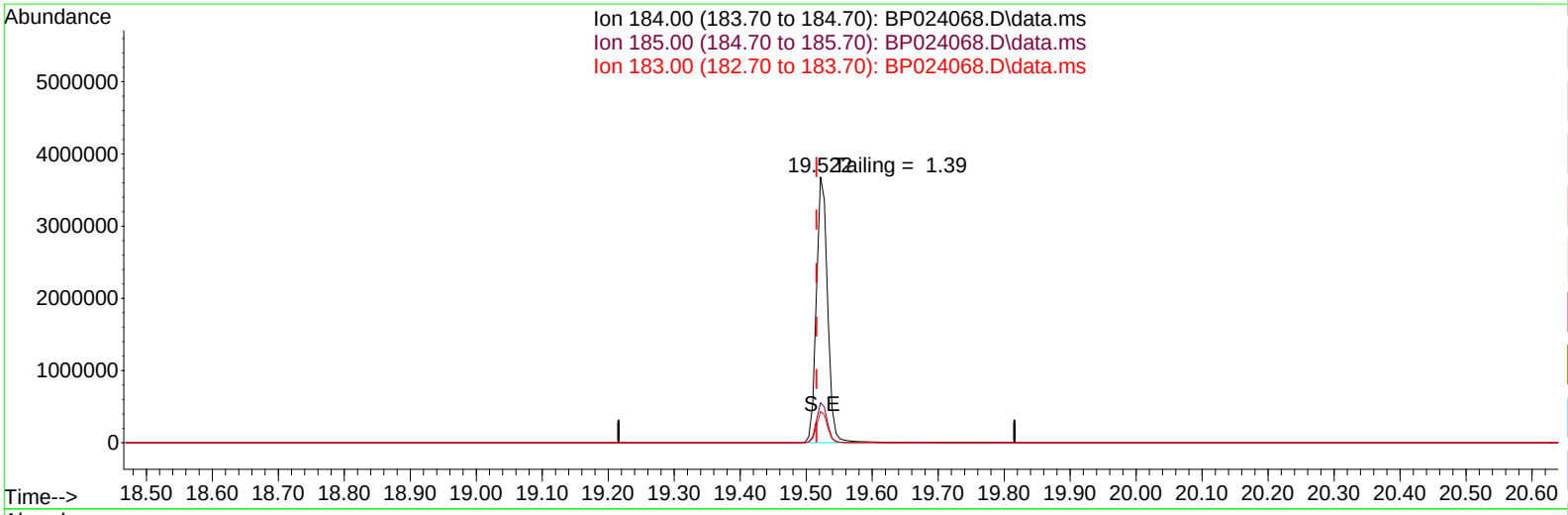
response 758401

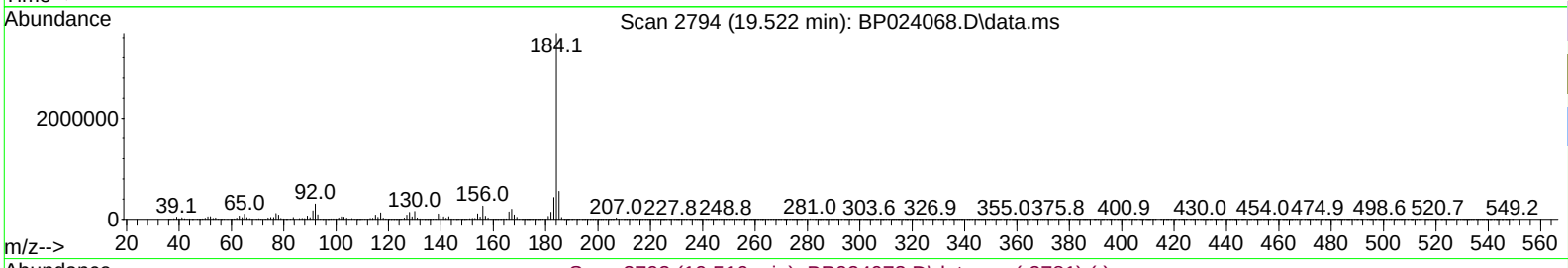
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.10	63.87
264.00	63.10	63.46
0.00	0.00	0.00

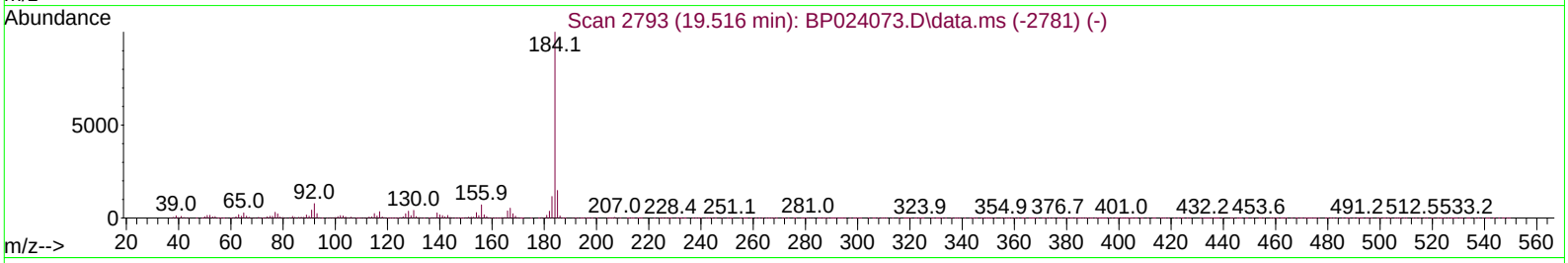
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP021725\
Data File : BP024068.D
Acq On : 17 Feb 2025 10:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Feb 18 02:37:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration







TIC: BP024068.D\data.ms

(77) Benzidine

19.522min (+ 0.006) 903747.62 ng

response 4372031

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.80	15.09
183.00	11.60	11.74
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

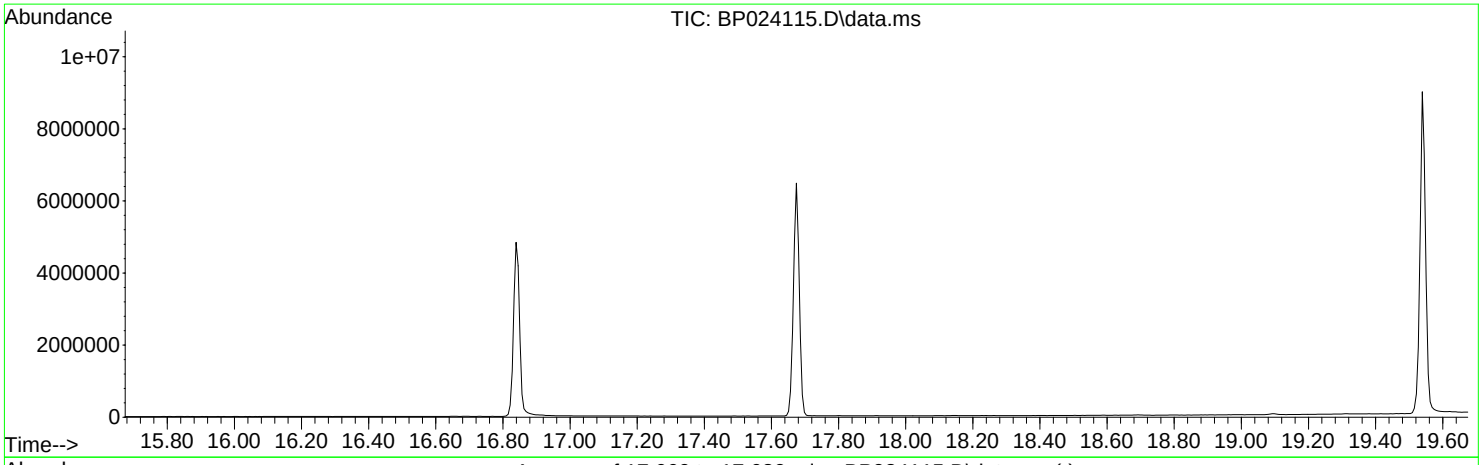
Date	Instrument Name	DFTPP Data File
2/17/2024	BNA_P	BP024068.D
Compound Name	**Response**	**Retention Time**
DDT	2093633	20.81
DDD	15524	20.41
DDE	198	19.827
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
15722	2109355	0.75

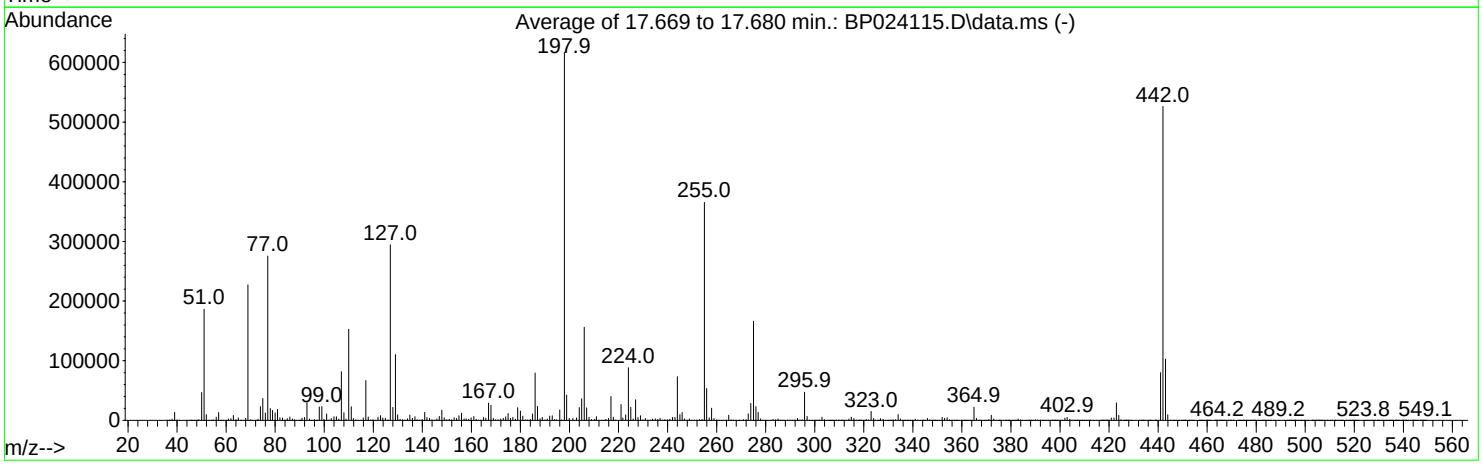
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024115.D
Acq On : 27 Feb 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 18 02:25:07 2025





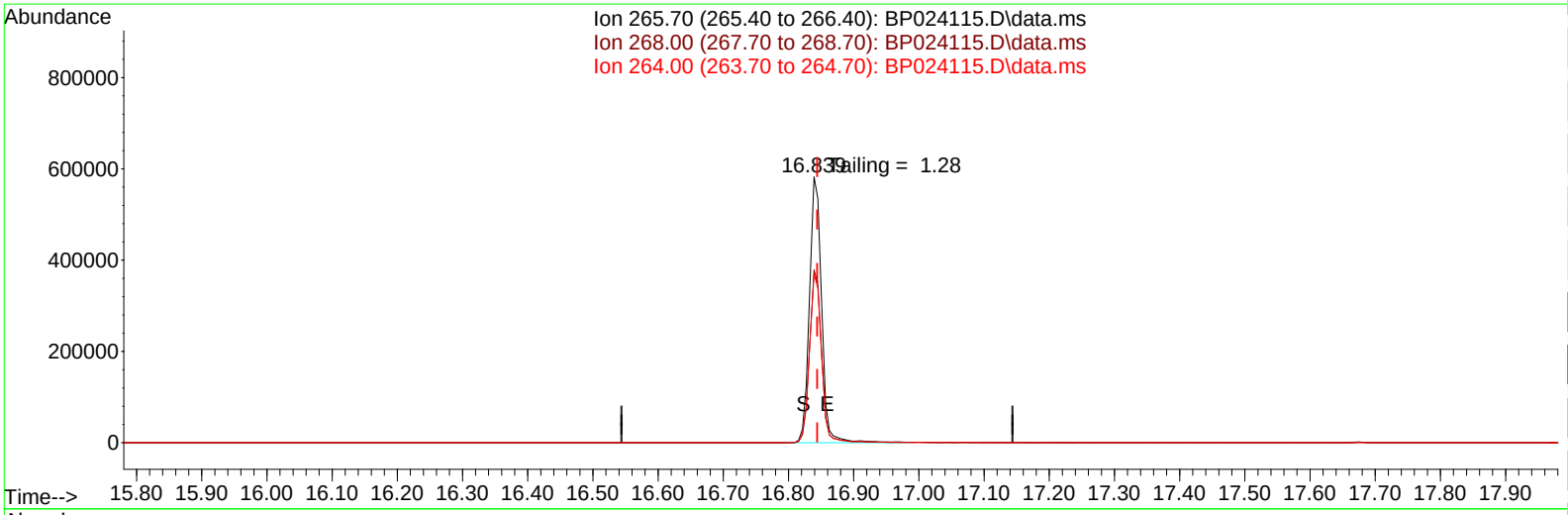
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2470

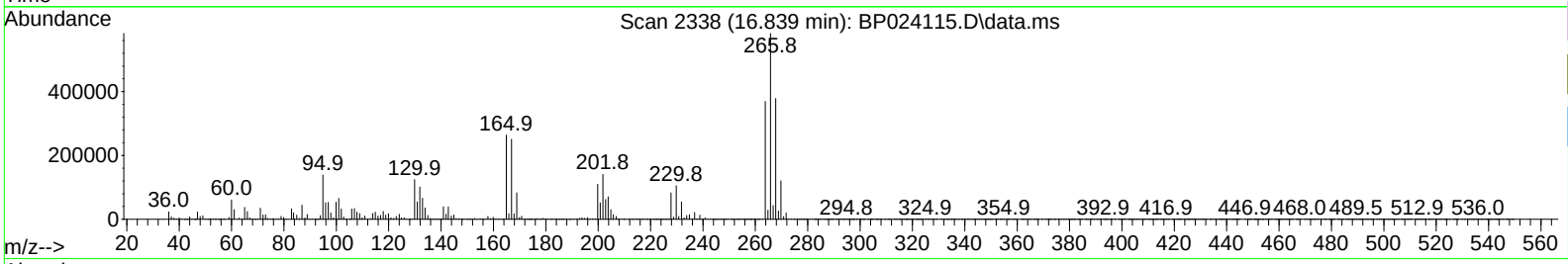
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	30.2	186291	PASS
68	69	0.00	2	1.5	3448	PASS
69	198	0.00	100	36.8	227157	PASS
70	69	0.00	2	0.4	979	PASS
127	198	10	80	47.7	294192	PASS
197	198	0.00	2	0.1	902	PASS
198	198	100	100	100.0	616770	PASS
199	198	5	9	6.9	42328	PASS
275	198	10	60	26.9	166208	PASS
365	198	1	100	3.5	21889	PASS
441	198	0.01	100	13.0	79905	PASS
442	442	100	100	100.0	526208	PASS
443	442	15	24	19.5	102666	PASS

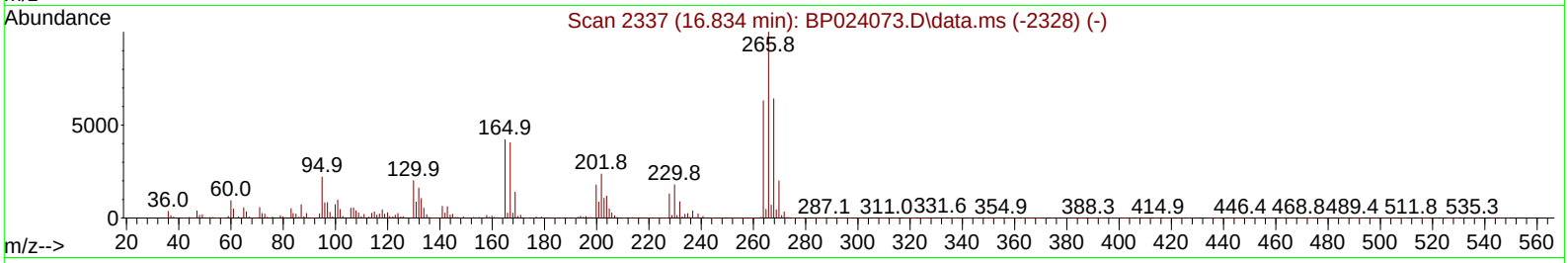
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024115.D
Acq On : 27 Feb 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Feb 27 13:56:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration







TIC: BP024115.D\data.ms

(70) Pentachlorophenol (C)

16.839min (-0.005) 446010.46 ng

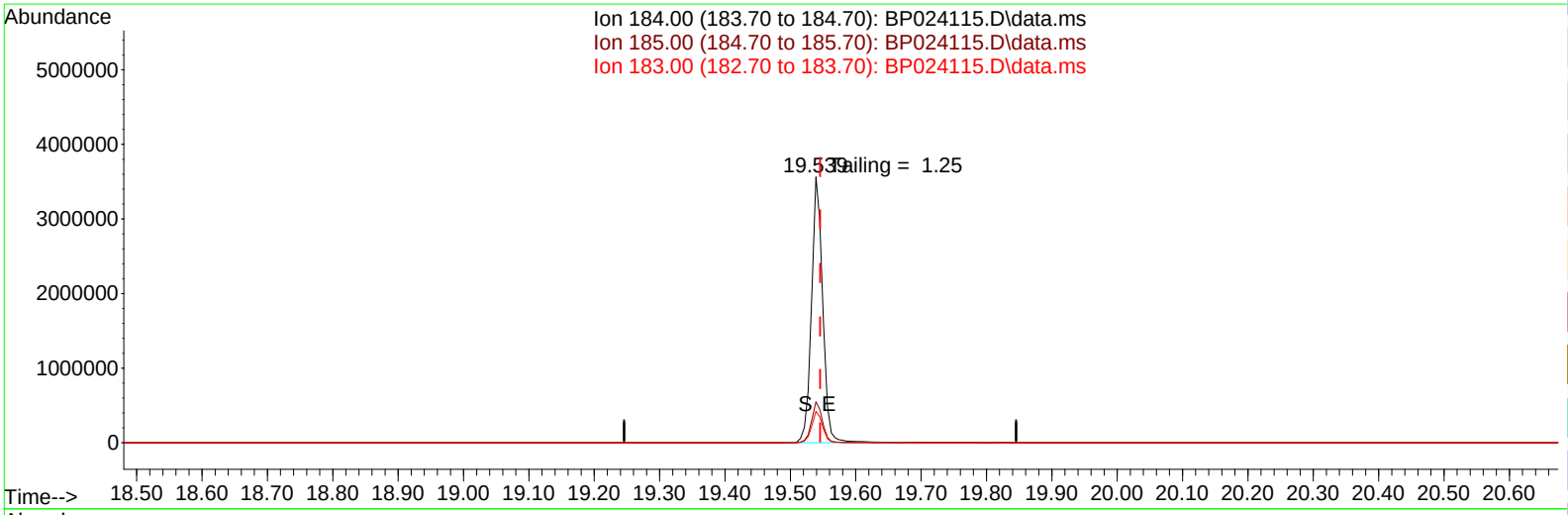
response 754050

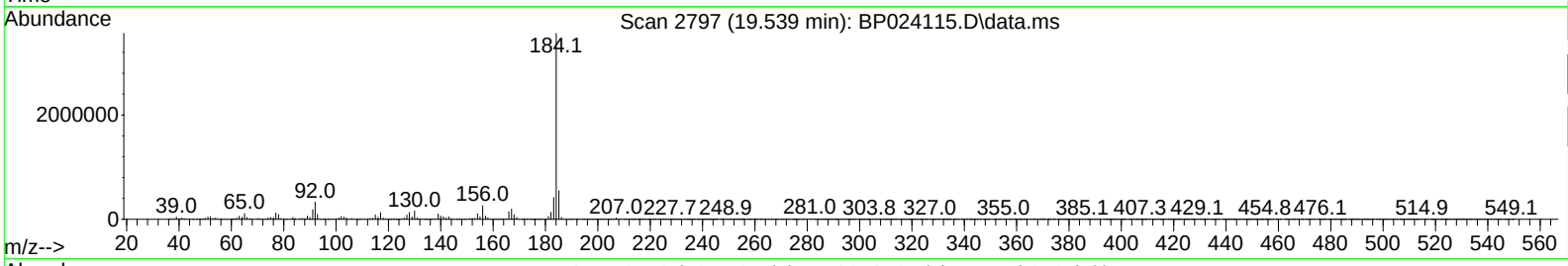
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.10	64.97
264.00	63.10	63.44
0.00	0.00	0.00

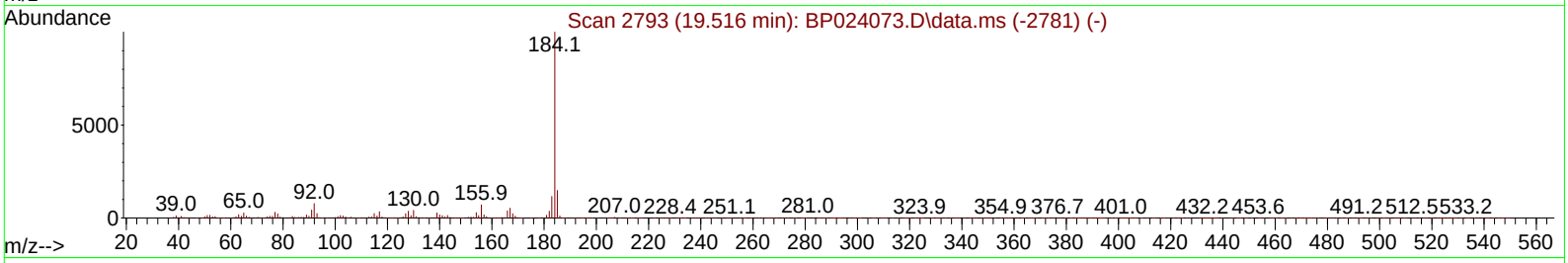
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024115.D
Acq On : 27 Feb 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Feb 27 13:58:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration







TIC: BP024115.D\data.ms

(77) Benzidine

19.539min (-0.007) 57911.67 ng

response 4286338

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.80	15.37
183.00	11.60	11.77
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/27/2025	BNA_P	BP024115.D
Compound Name	**Response**	**Retention Time**
DDT	2101982	20.827
DDD	18091	20.421
DDE	803	19.839
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
18894	2120876	0.89

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166894BL			SDG No.:	Q1421
Lab Sample ID:	PB166894BL			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024117.D	1	02/26/25 11:20	02/27/25 11:47	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166894BL	SDG No.:	Q1421
Lab Sample ID:	PB166894BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024117.D	1	02/26/25 11:20	02/27/25 11:47	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166894BL			SDG No.:	Q1421
Lab Sample ID:	PB166894BL			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024117.D	1	02/26/25 11:20	02/27/25 11:47	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		10 - 139	103%	SPK: 150
13127-88-3	Phenol-d6	148		10 - 134	98%	SPK: 150
4165-60-0	Nitrobenzene-d5	104		49 - 133	104%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		44 - 137	95%	SPK: 150
1718-51-0	Terphenyl-d14	120		48 - 125	120%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	432000	7.734			
1146-65-2	Naphthalene-d8	1650000	10.516			
15067-26-2	Acenaphthene-d10	952000	14.398			
1517-22-2	Phenanthrene-d10	1690000	17.21			
1719-03-5	Chrysene-d12	1380000	21.663			
1520-96-3	Perylene-d12	1340000	25.057			

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_P\Data\BP022725\
Data File : BP024117.D
Acq On : 27 Feb 2025 11:47
Operator : RC/JU
Sample : PB166894BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Quant Time: Feb 27 12:24:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

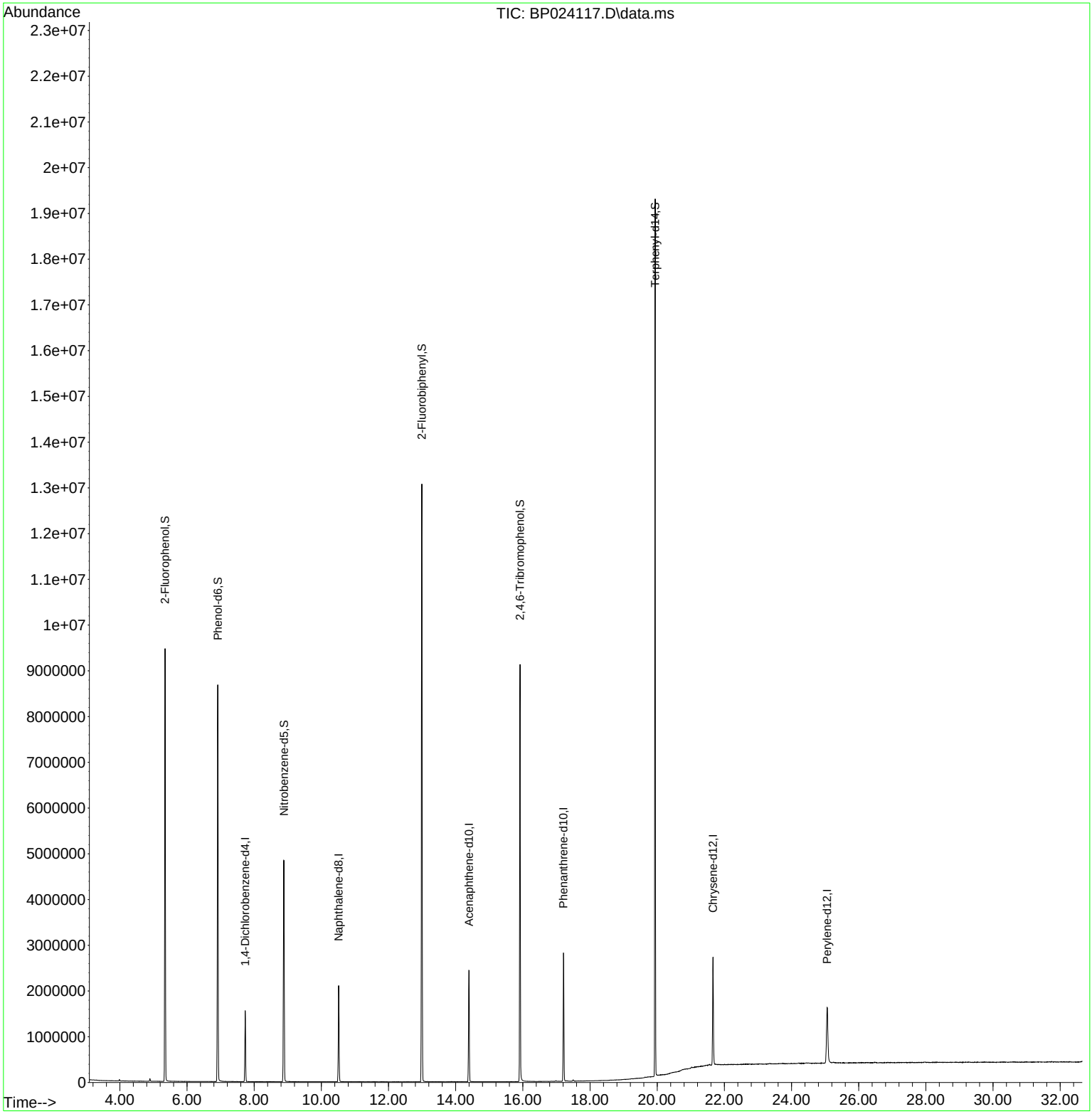
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.734	152	431765	20.000	ng	-0.03
21) Naphthalene-d8	10.516	136	1653489	20.000	ng	-0.02
39) Acenaphthene-d10	14.398	164	951686	20.000	ng	0.00
64) Phenanthrene-d10	17.210	188	1690520	20.000	ng	0.02
76) Chrysene-d12	21.663	240	1378836	20.000	ng	0.02
86) Perylene-d12	25.057	264	1338237	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.346	112	4272961	154.421	ng	-0.03
7) Phenol-d6	6.917	99	5254373	147.742	ng	-0.03
23) Nitrobenzene-d5	8.887	82	3096219	104.467	ng	-0.02
42) 2,4,6-Tribromophenol	15.916	330	1659520	142.361	ng	0.01
45) 2-Fluorobiphenyl	12.993	172	6883188	101.112	ng	-0.01
79) Terphenyl-d14	19.939	244	8390289	120.408	ng	0.02
Target Compounds						Qvalue

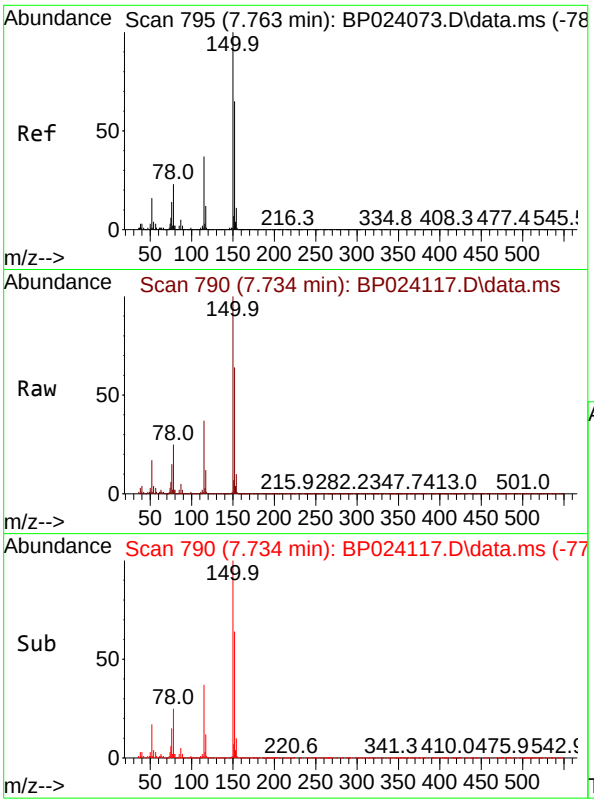
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024117.D
Acq On : 27 Feb 2025 11:47
Operator : RC/JU
Sample : PB166894BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Quant Time: Feb 27 12:24:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration



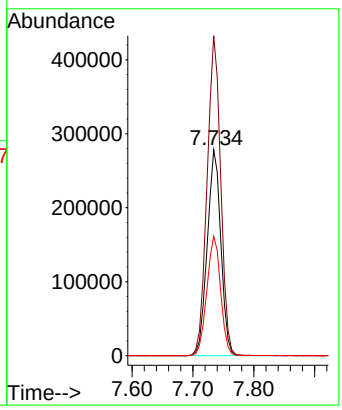


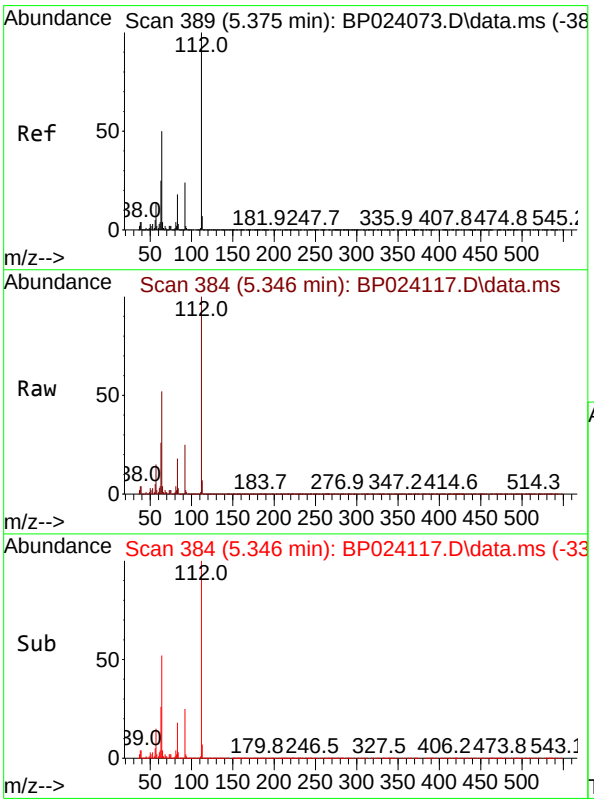
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.734 min Scan# 7
Delta R.T. -0.029 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Tgt Ion:152 Resp: 431765

Ion	Ratio	Lower	Upper
152	100		
150	155.4	122.4	183.6
115	58.1	45.0	67.6

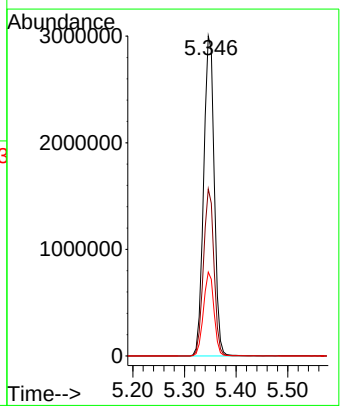


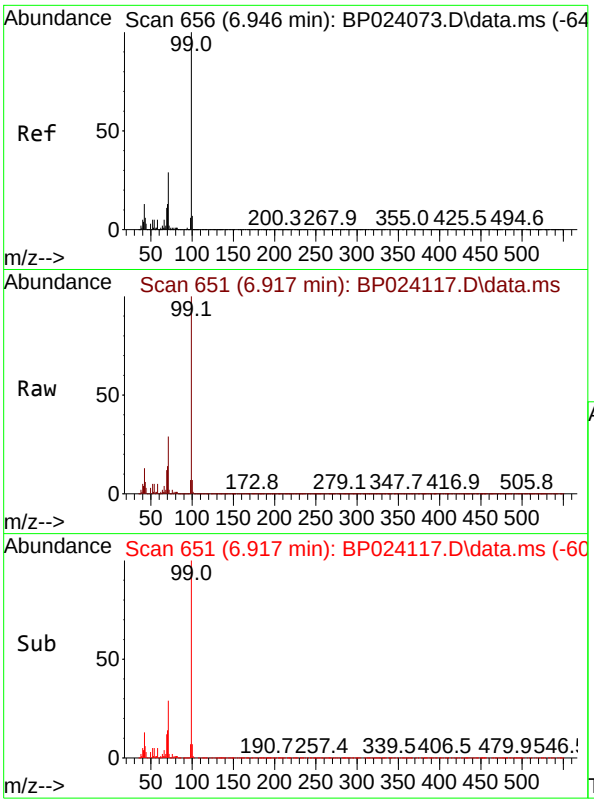


#5
2-Fluorophenol
Concen: 154.421 ng
RT: 5.346 min Scan# 384
Delta R.T. -0.029 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Tgt Ion:112 Resp: 4272961

Ion	Ratio	Lower	Upper
112	100		
64	52.2	39.6	59.4
63	26.2	20.3	30.5



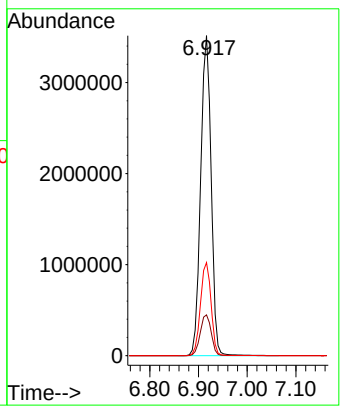


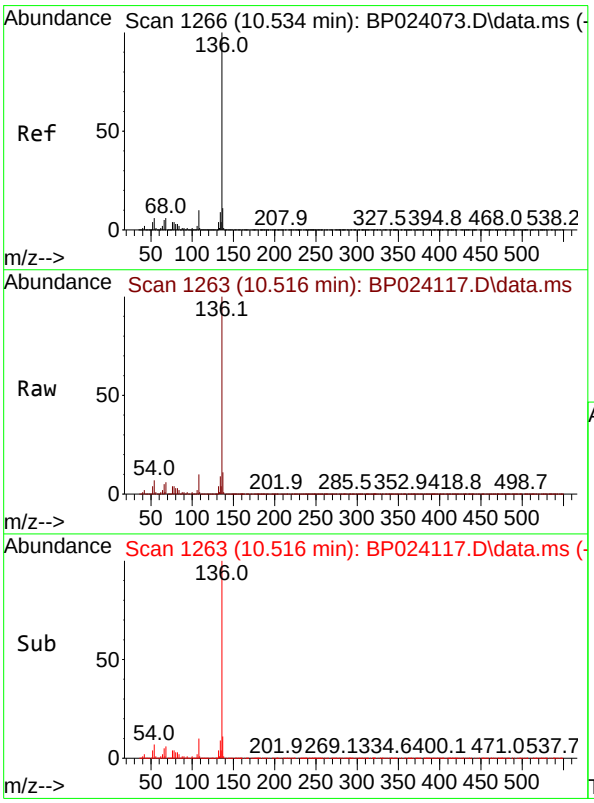
#7
Phenol-d6
Concen: 147.742 ng
RT: 6.917 min Scan# 6
Delta R.T. -0.029 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Tgt Ion: 99 Resp: 5254373

Ion	Ratio	Lower	Upper
99	100		
42	12.8	10.3	15.5
71	29.1	22.9	34.3

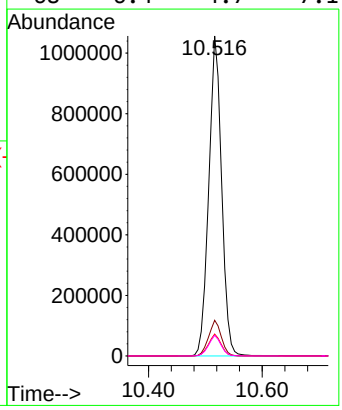


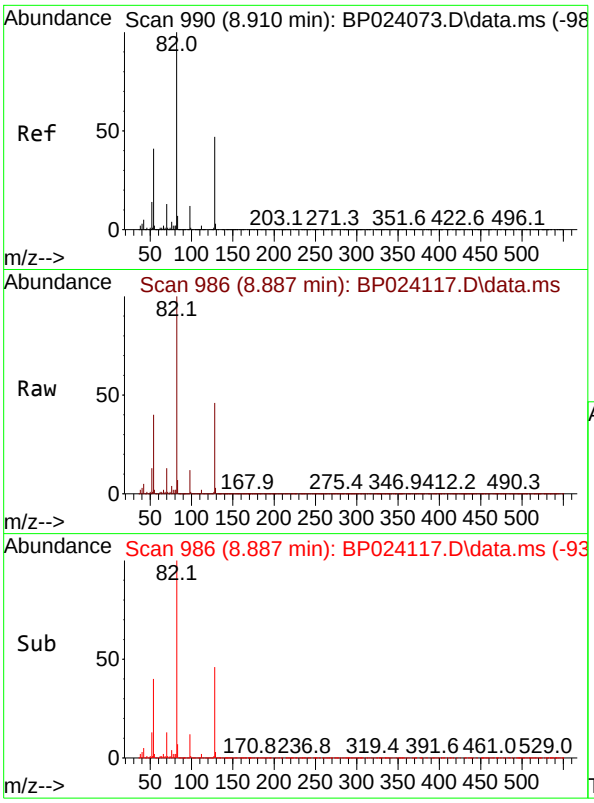


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1263
Delta R.T. -0.018 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Tgt Ion:136 Resp: 1653489

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.7	13.1
54	6.8	4.9	7.3
68	6.4	4.7	7.1



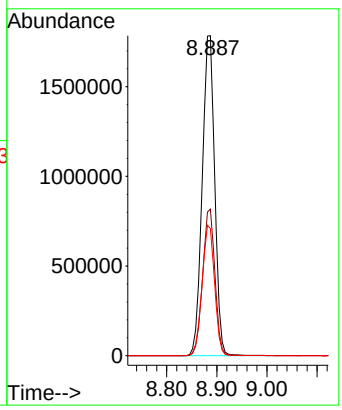


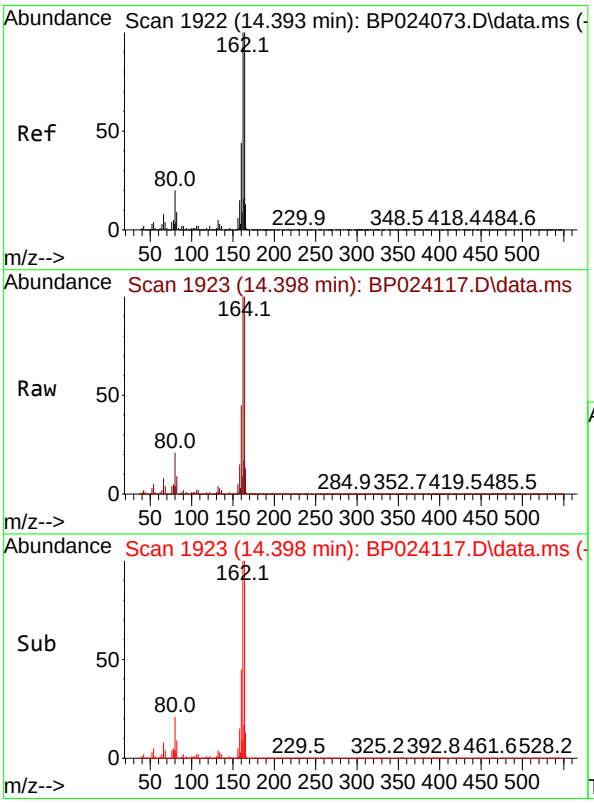
#23
Nitrobenzene-d5
Concen: 104.467 ng
RT: 8.887 min Scan# 9
Delta R.T. -0.023 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Tgt Ion: 82 Resp: 3096219

Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.4	56.2
54	39.8	32.4	48.6

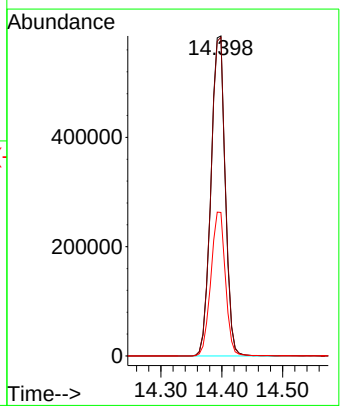


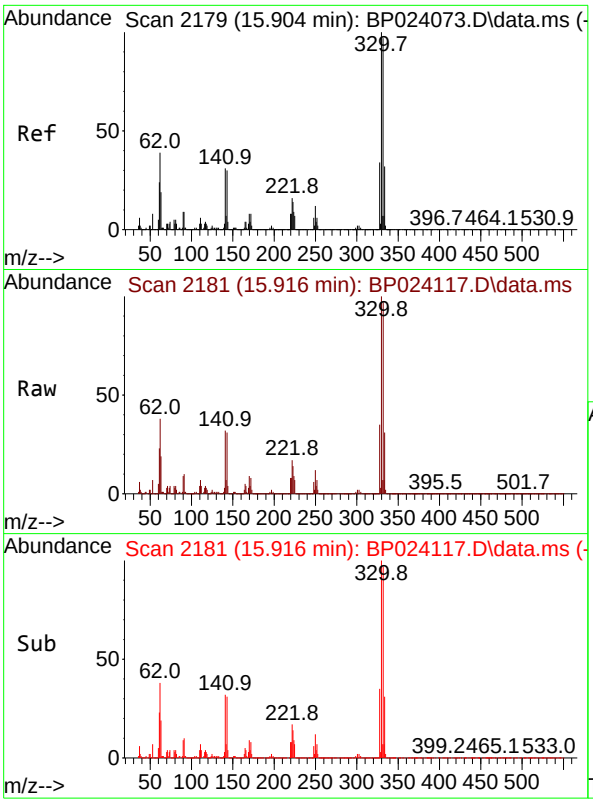


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.398 min Scan# 1923
Delta R.T. 0.006 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Tgt Ion:164 Resp: 951686

Ion	Ratio	Lower	Upper
164	100		
162	99.6	80.1	120.1
160	44.8	35.6	53.4



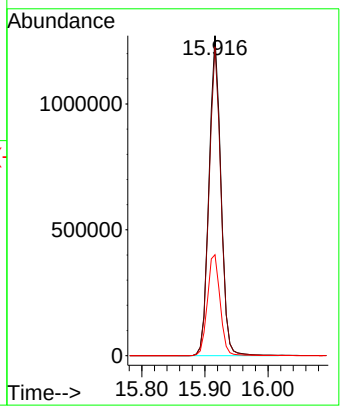


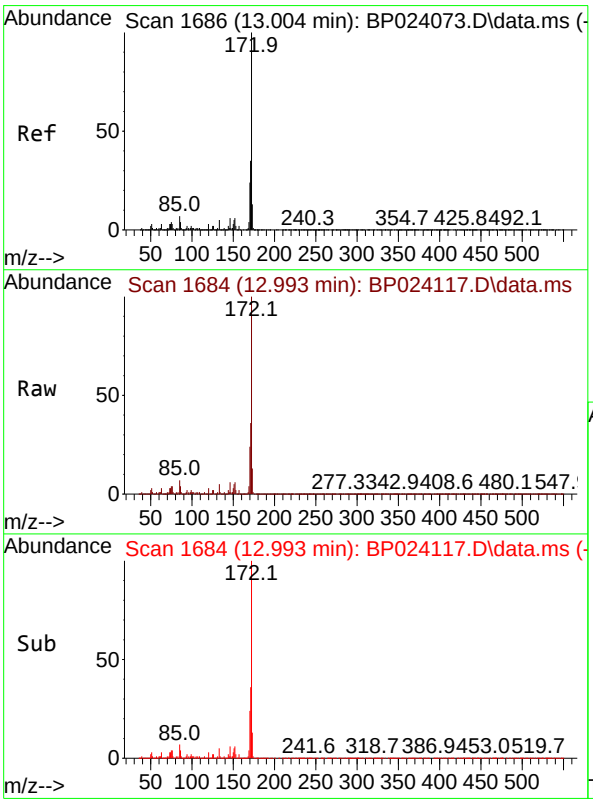
#42
2,4,6-Tribromophenol
Concen: 142.361 ng
RT: 15.916 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Tgt Ion:330 Resp: 1659520

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.0	115.4
141	33.9	28.3	42.5

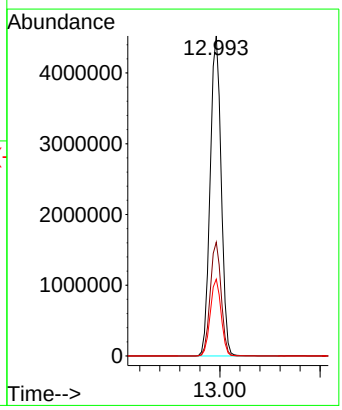


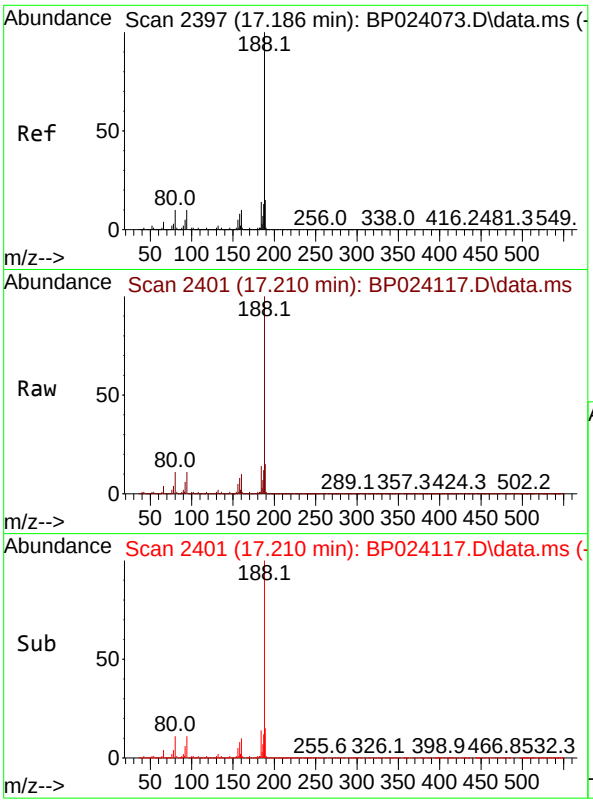


#45
2-Fluorobiphenyl
Concen: 101.112 ng
RT: 12.993 min Scan# 1684
Delta R.T. -0.012 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Tgt Ion:172 Resp: 6883188

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.2	42.2
170	24.0	19.0	28.6



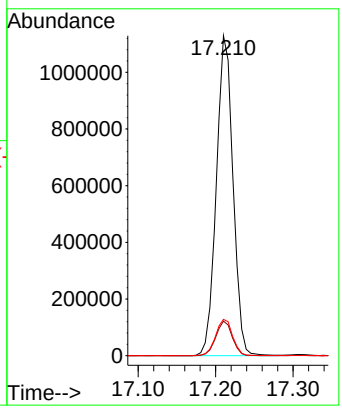


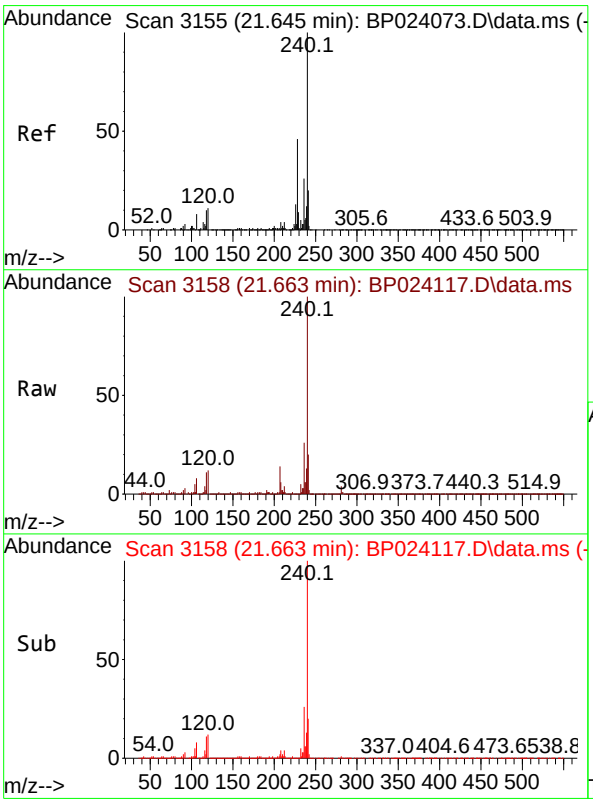
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.210 min Scan# 24
Delta R.T. 0.024 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Tgt Ion:188 Resp: 1690520

Ion	Ratio	Lower	Upper
188	100		
94	10.8	7.6	11.4
80	11.4	8.2	12.2

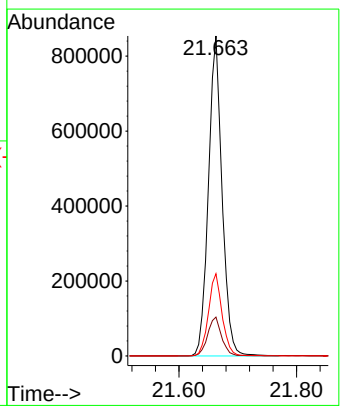


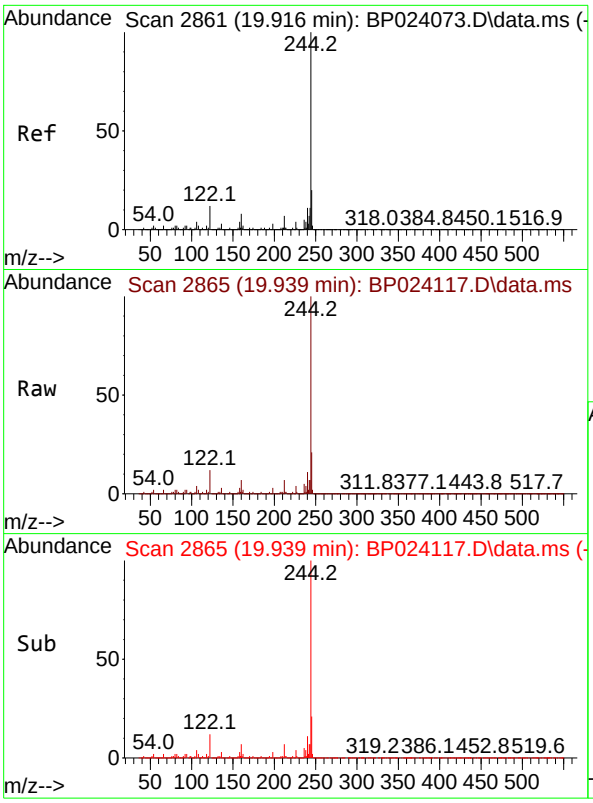


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.663 min Scan# 3158
Delta R.T. 0.018 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Tgt Ion:240 Resp: 1378836

Ion	Ratio	Lower	Upper
240	100		
120	12.2	8.9	13.3
236	25.7	20.7	31.1



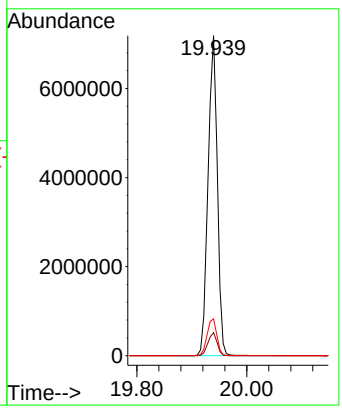


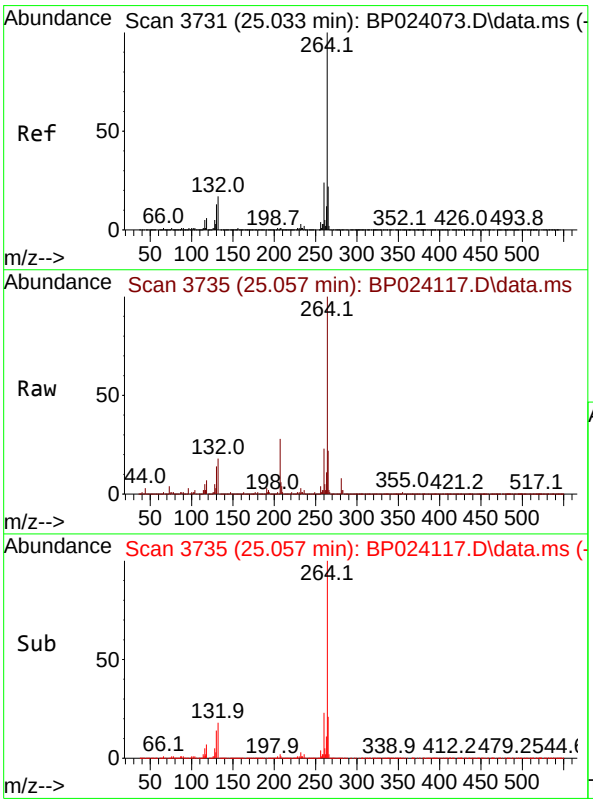
#79
Terphenyl-d14
Concen: 120.408 ng
RT: 19.939 min Scan# 2
Delta R.T. 0.024 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Instrument :
BNA_P
ClientSampleId :
PB166894BL

Tgt Ion:244 Resp: 8390289

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.9	8.9
122	11.5	9.4	14.2

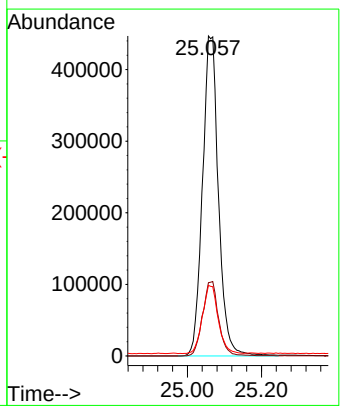




#86
Perylene-d12
Concen: 20.000 ng
RT: 25.057 min Scan# 3735
Delta R.T. 0.024 min
Lab File: BP024117.D
Acq: 27 Feb 2025 11:47

Tgt Ion:264 Resp: 1338237

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.0	28.6
265	22.0	17.8	26.8



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166894BS	SDG No.:	Q1421
Lab Sample ID:	PB166894BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024118.D	1	02/26/25 11:20	02/27/25 13:00	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	30.4		4.00	10.0	ug/L
108-95-2	Phenol	43.4		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	41.2		0.71	5.00	ug/L
95-48-7	2-Methylphenol	43.7		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.6		1.40	5.00	ug/L
98-86-2	Acetophenone	47.6		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.0		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	43.2		1.50	2.50	ug/L
67-72-1	Hexachloroethane	42.7		1.00	5.00	ug/L
98-95-3	Nitrobenzene	44.7		1.30	5.00	ug/L
78-59-1	Isophorone	46.0		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	43.3		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.2		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	42.3		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.1		0.88	5.00	ug/L
91-20-3	Naphthalene	41.3		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	16.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.7		1.30	5.00	ug/L
105-60-2	Caprolactam	43.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	42.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	39.3		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	43.7		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	43.4		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.3		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.0		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	49.1		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	42.3		0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB166894BS	SDG No.:	Q1421
Lab Sample ID:	PB166894BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024118.D	1	02/26/25 11:20	02/27/25 13:00	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.4		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.6		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	24.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	43.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	83.3	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	110	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	41.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.1		1.50	5.00	ug/L
84-66-2	Diethylphthalate	41.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.1		0.98	5.00	ug/L
86-73-7	Fluorene	43.3		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	41.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	41.0		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	44.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	42.0		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	42.9		1.10	5.00	ug/L
1912-24-9	Atrazine	65.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	93.9	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	44.6		0.89	5.00	ug/L
120-12-7	Anthracene	47.1		1.10	5.00	ug/L
86-74-8	Carbazole	47.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.2		1.50	5.00	ug/L
206-44-0	Fluoranthene	45.5		1.30	5.00	ug/L
129-00-0	Pyrene	43.4		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	47.2		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	30.1		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.2		0.94	5.00	ug/L
218-01-9	Chrysene	44.1		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	45.5		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	46.0		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.4		1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB166894BS			SDG No.:	Q1421
Lab Sample ID:	PB166894BS			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024118.D	1	02/26/25 11:20	02/27/25 13:00	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	44.4		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.0		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	47.8		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	46.4		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	43.5		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	47.3		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	43.5		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	138		10 - 139	92%	SPK: 150
13127-88-3	Phenol-d6	129		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.4		49 - 133	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.5		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		44 - 137	93%	SPK: 150
1718-51-0	Terphenyl-d14	92.5		48 - 125	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	419000	7.728			
1146-65-2	Naphthalene-d8	1530000	10.516			
15067-26-2	Acenaphthene-d10	827000	14.381			
1517-22-2	Phenanthrene-d10	1520000	17.192			
1719-03-5	Chrysene-d12	1700000	21.657			
1520-96-3	Perylene-d12	1810000	25.051			

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_P\Data\BP022725\
Data File : BP024118.D
Acq On : 27 Feb 2025 13:00
Operator : RC/JU
Sample : PB166894BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 13:29:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB166894BS

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	7.728	152	418803	20.000	ng		-0.03
21) Naphthalene-d8	10.516	136	1531383	20.000	ng		-0.02
39) Acenaphthene-d10	14.381	164	827031	20.000	ng		-0.01
64) Phenanthrene-d10	17.192	188	1522668	20.000	ng		0.00
76) Chrysene-d12	21.657	240	1701635	20.000	ng		0.01
86) Perylene-d12	25.051	264	1810661	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.346	112	3692553	137.576	ng		-0.03
7) Phenol-d6	6.911	99	4461922	129.343	ng		-0.04
23) Nitrobenzene-d5	8.881	82	2592234	94.436	ng		-0.03
42) 2,4,6-Tribromophenol	15.898	330	1416685	139.848	ng		0.00
45) 2-Fluorobiphenyl	12.987	172	5351711	90.464	ng		-0.02
79) Terphenyl-d14	19.922	244	7952695	92.478	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.293	88	457841	43.484	ng		97
3) Pyridine	3.681	79	1095704	40.027	ng		98
4) n-Nitrosodimethylamine	3.593	42	433013	44.594	ng		96
6) Aniline	7.063	93	1082344	34.260	ng		99
8) 2-Chlorophenol	7.299	128	1170327	41.196	ng		97
9) Benzaldehyde	6.881	77	478022	30.351	ng		100
10) Phenol	6.940	94	1507006	43.443	ng		100
11) bis(2-Chloroethyl)ether	7.158	93	1179042	43.153	ng		98
12) 1,3-Dichlorobenzene	7.616	146	1322861	42.387	ng		99
13) 1,4-Dichlorobenzene	7.763	146	1331259	42.179	ng		100
14) 1,2-Dichlorobenzene	8.081	146	1275564	42.112	ng		99
15) Benzyl Alcohol	7.969	79	906699	42.939	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.252	45	1236225m	46.610	ng		
17) 2-Methylphenol	8.175	107	923414	43.682	ng		100
18) Hexachloroethane	8.805	117	484787	42.650	ng		96
19) n-Nitroso-di-n-propyla...	8.528	70	800372	43.151	ng		99
20) 3+4-Methylphenols	8.499	107	1235246	42.954	ng		99
22) Acetophenone	8.540	105	1874302	47.629	ng	#	99
24) Nitrobenzene	8.922	77	1208205	44.724	ng		98
25) Isophorone	9.446	82	2065777	46.021	ng		98
26) 2-Nitrophenol	9.628	139	538371	43.257	ng		96
27) 2,4-Dimethylphenol	9.693	122	901317	55.169	ng		98
28) bis(2-Chloroethoxy)met...	9.928	93	1376927	42.343	ng		100
29) 2,4-Dichlorophenol	10.169	162	939686	42.147	ng		99
30) 1,2,4-Trichlorobenzene	10.375	180	1060579	41.518	ng		99
31) Naphthalene	10.569	128	3399518	41.285	ng		100
32) Benzoic acid	9.840	122	647569	39.372	ng		99
33) 4-Chloroaniline	10.669	127	471925	16.269	ng		99
34) Hexachlorobutadiene	10.857	225	617176	41.713	ng		100
35) Caprolactam	11.469	113	320536	43.300	ng		92
36) 4-Chloro-3-methylphenol	11.816	107	964629	42.087	ng		98
37) 2-Methylnaphthalene	12.181	142	2151526	39.312	ng		99
38) 1-Methylnaphthalene	12.404	142	2102964	39.499	ng		100
40) 1,2,4,5-Tetrachloroben...	12.557	216	1201536	47.284	ng		98
41) Hexachlorocyclopentadiene	12.540	237	1516802	160.411	ng		99
43) 2,4,6-Trichlorophenol	12.804	196	676923	43.681	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024118.D
Acq On : 27 Feb 2025 13:00
Operator : RC/JU
Sample : PB166894BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 27 13:29:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB166894BS

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	12.881	196	736149	43.435	ng	98
46) 1,1'-Biphenyl	13.210	154	3039270	47.292	ng	100
47) 2-Chloronaphthalene	13.245	162	2090836	43.038	ng	99
48) 2-Nitroaniline	13.457	65	563505	49.103	ng	99
49) Acenaphthylene	14.104	152	3323993	46.440	ng	100
50) Dimethylphthalate	13.840	163	2466726	42.284	ng	99
51) 2,6-Dinitrotoluene	13.957	165	518569	43.638	ng	99
52) Acenaphthene	14.451	154	1991979	43.217	ng	100
53) 3-Nitroaniline	14.287	138	313245	24.702	ng	97
54) 2,4-Dinitrophenol	14.498	184	655057	83.259	ng	95
55) Dibenzofuran	14.792	168	3082347	41.165	ng	98
56) 4-Nitrophenol	14.616	139	1159812	105.882	ng	98
57) 2,4-Dinitrotoluene	14.757	165	757654	49.080	ng	100
58) Fluorene	15.451	166	2529418	43.255	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.016	232	631218	42.927	ng	99
60) Diethylphthalate	15.222	149	2425039	41.875	ng	99
61) 4-Chlorophenyl-phenyle...	15.445	204	1182844	41.095	ng	97
62) 4-Nitroaniline	15.469	138	609023	41.076	ng	96
63) Azobenzene	15.745	77	2430342	44.785	ng	97
65) 4,6-Dinitro-2-methylph...	15.528	198	391756	41.048	ng	98
66) n-Nitrosodiphenylamine	15.663	169	2101469	44.256	ng	99
67) 4-Bromophenyl-phenylether	16.357	248	717557	41.965	ng	99
68) Hexachlorobenzene	16.475	284	863800	42.933	ng	98
69) Atrazine	16.645	200	800113	65.660	ng	98
70) Pentachlorophenol	16.834	266	1227623	93.944	ng	100
71) Phenanthrene	17.234	178	3824960	44.556	ng	100
72) Anthracene	17.322	178	3870642	47.050	ng	100
73) Carbazole	17.610	167	3694615	47.136	ng	100
74) Di-n-butylphthalate	18.204	149	4129690	45.154	ng	100
75) Fluoranthene	19.322	202	4421462	45.536	ng	98
77) Benzidine	19.522	184	1687837	81.399	ng	99
78) Pyrene	19.698	202	4689110	43.383	ng	100
80) Butylbenzylphthalate	20.657	149	1954264	47.184	ng	96
81) Benzo(a)anthracene	21.633	228	4819109	45.165	ng	100
82) 3,3'-Dichlorobenzidine	21.551	252	1003532	30.098	ng	98
83) Chrysene	21.704	228	4534660	44.073	ng	100
84) Bis(2-ethylhexyl)phtha...	21.580	149	2856995	45.488	ng	99
85) Di-n-octyl phthalate	22.886	149	4620749	46.026	ng	99
87) Indeno(1,2,3-cd)pyrene	28.915	276	6158463m	47.810	ng	
88) Benzo(b)fluoranthene	23.986	252	4873204	42.382	ng	99
89) Benzo(k)fluoranthene	24.057	252	4966652	44.377	ng	99
90) Benzo(a)pyrene	24.898	252	4686771	48.030	ng	99
91) Dibenzo(a,h)anthracene	29.003	278	5026619	46.410	ng	99
92) Benzo(g,h,i)perylene	30.115	276	4779983	43.492	ng	99

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

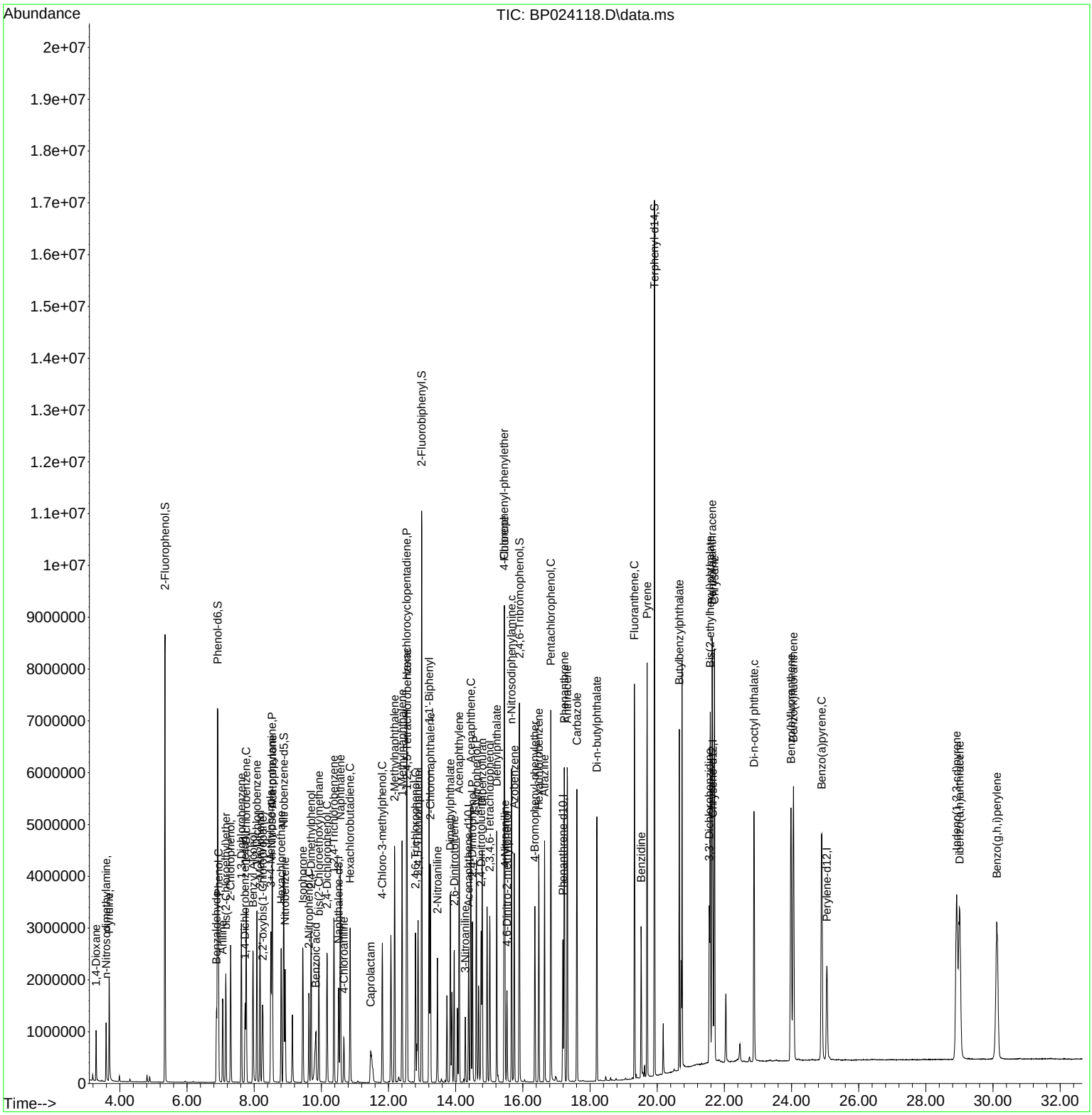
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024118.D
Acq On : 27 Feb 2025 13:00
Operator : RC/JU
Sample : PB166894BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

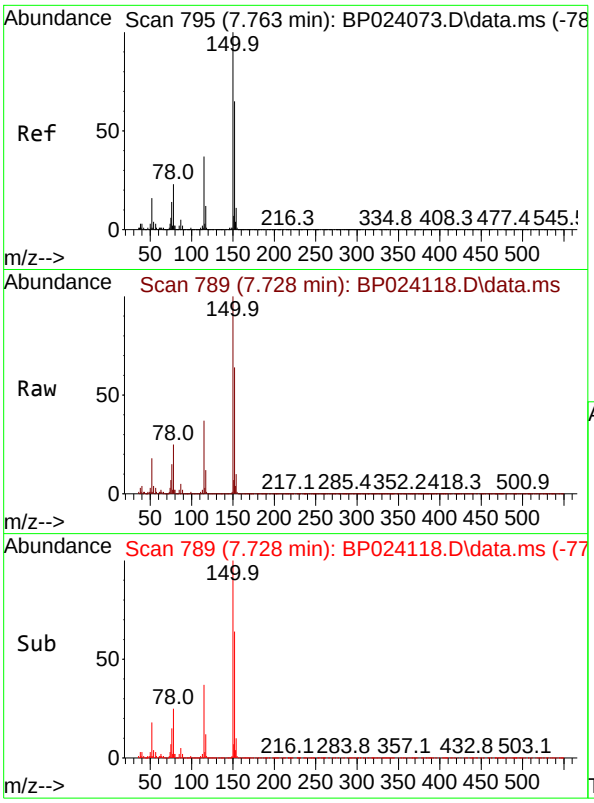
Quant Time: Feb 27 13:29:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

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

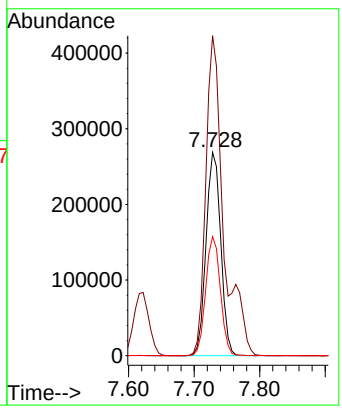




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.728 min Scan# 7
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:152 Resp: 41880

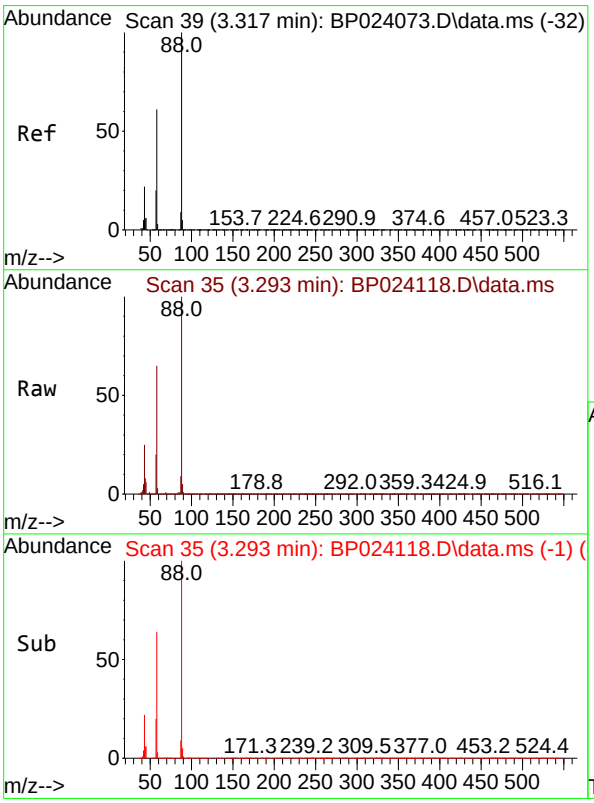
Ion	Ratio	Lower	Upper
152	100		
150	157.3	122.4	183.6
115	58.6	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

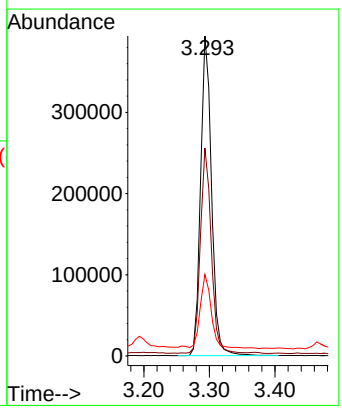
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

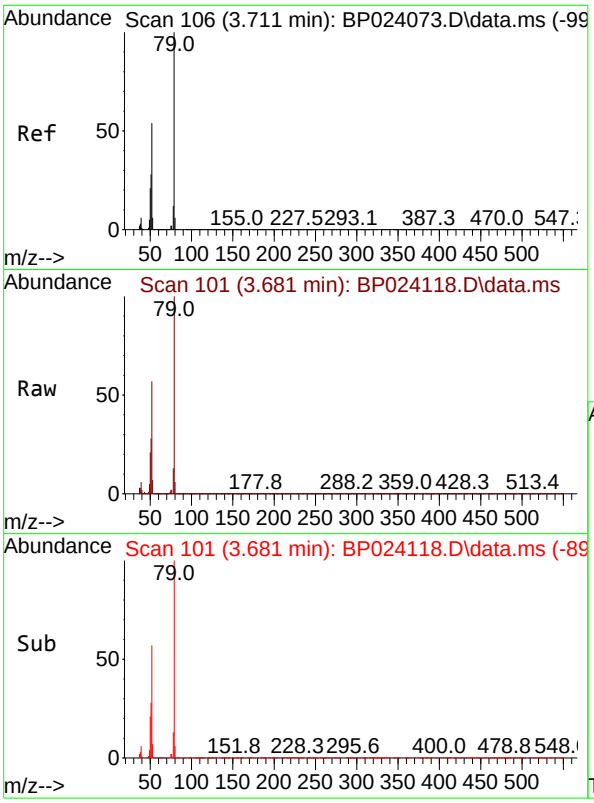


#2
1,4-Dioxane
Concen: 43.484 ng
RT: 3.293 min Scan# 35
Delta R.T. -0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 88 Resp: 457841

Ion	Ratio	Lower	Upper
88	100		
58	63.6	49.1	73.7
43	23.6	18.0	27.0

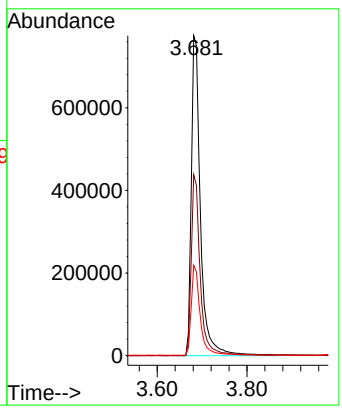




#3
Pyridine
Concen: 40.027 ng
RT: 3.681 min Scan# 1
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 79 Resp: 109570

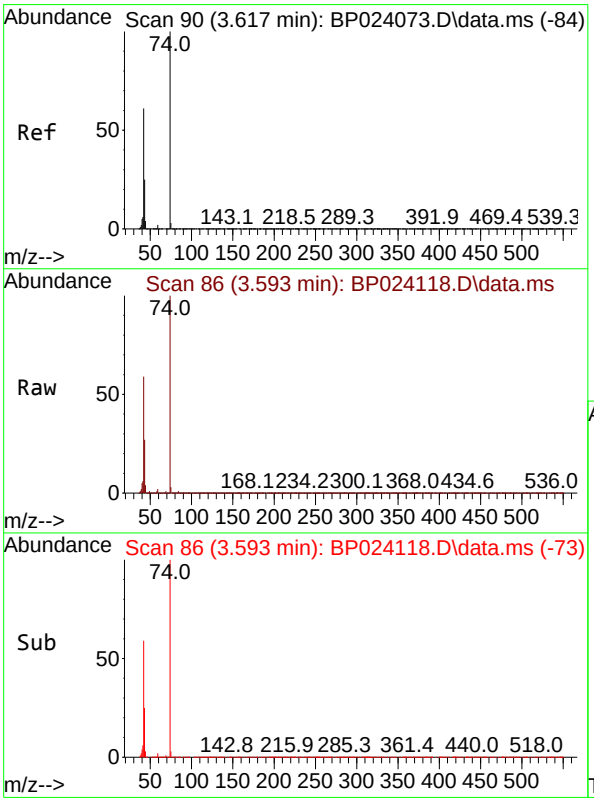
Ion	Ratio	Lower	Upper
79	100		
52	56.5	43.5	65.3
51	28.2	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

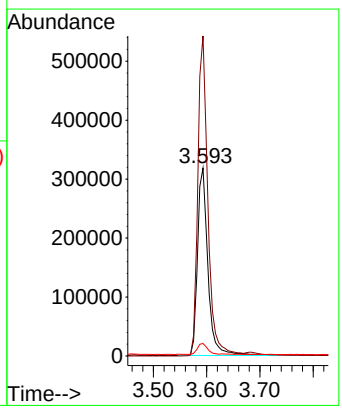
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

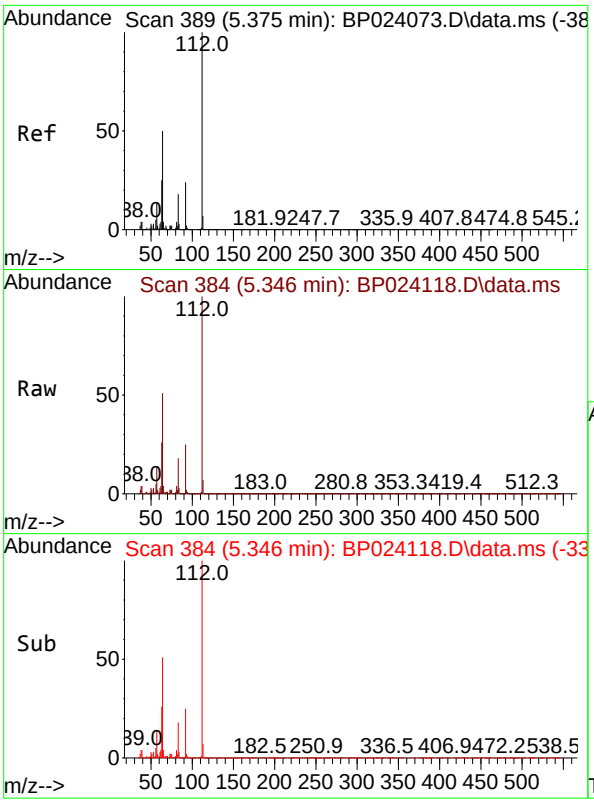


#4
n-Nitrosodimethylamine
Concen: 44.594 ng
RT: 3.593 min Scan# 86
Delta R.T. -0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 42 Resp: 433013

Ion	Ratio	Lower	Upper
42	100		
74	170.3	132.0	198.0
44	6.7	5.3	7.9





#5
2-Fluorophenol
Concen: 137.576 ng
RT: 5.346 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

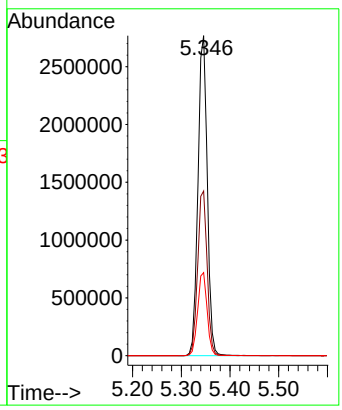
Tgt Ion:112 Resp: 369255

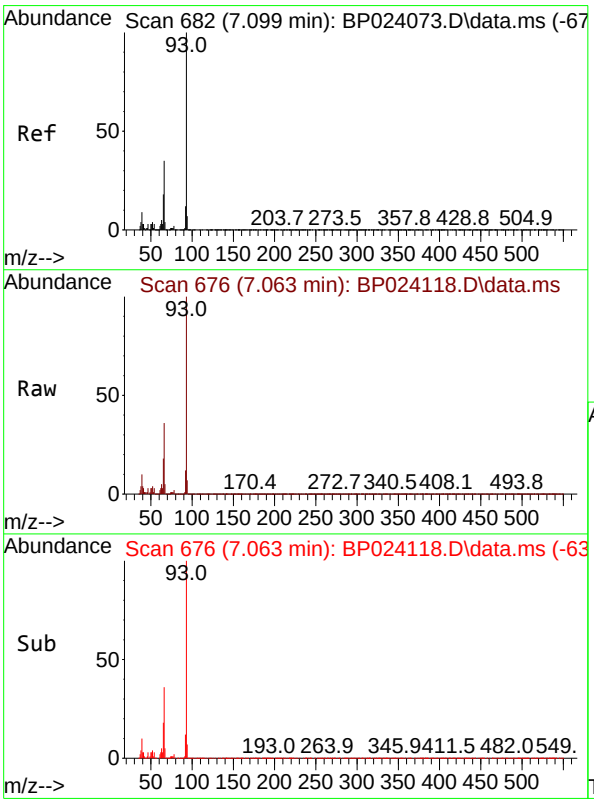
Ion	Ratio	Lower	Upper
112	100		
64	51.4	39.6	59.4
63	26.0	20.3	30.5

Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

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

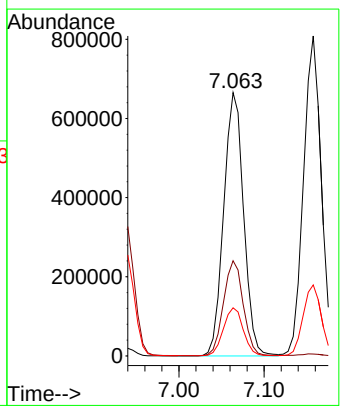


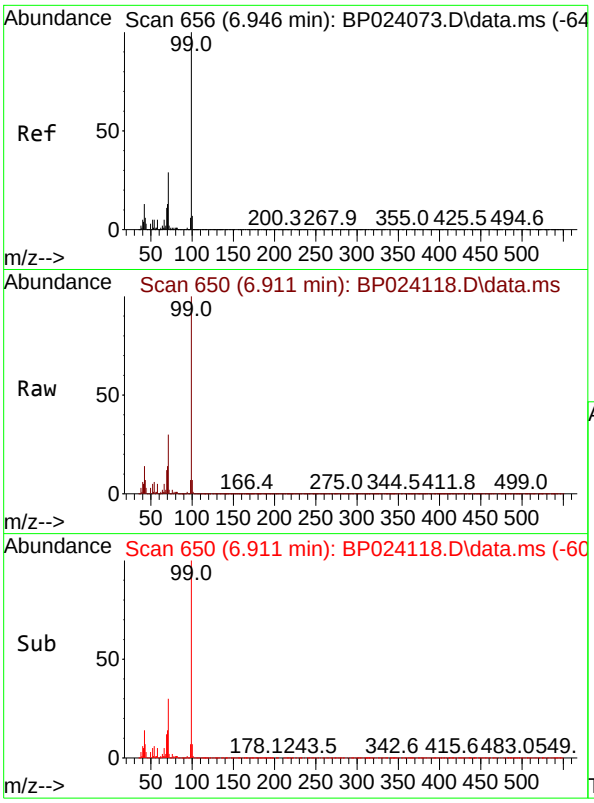


#6
Aniline
Concen: 34.260 ng
RT: 7.063 min Scan# 676
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 93 Resp: 1082344

Ion	Ratio	Lower	Upper
93	100		
66	36.2	28.2	42.4
65	18.3	14.1	21.1

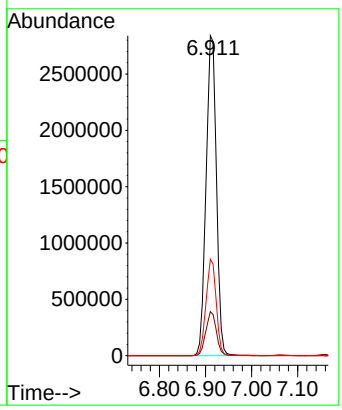




#7
Phenol-d6
Concen: 129.343 ng
RT: 6.911 min Scan# 6
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 99 Resp: 446192

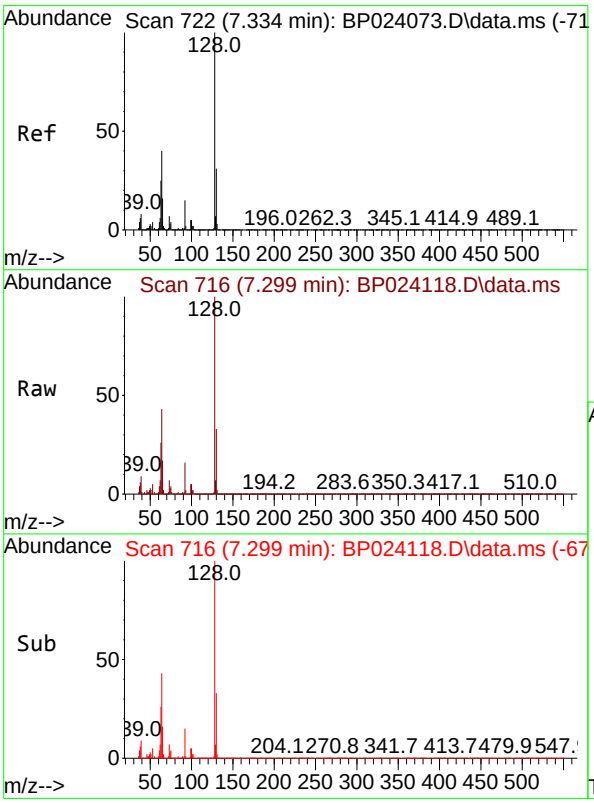
Ion	Ratio	Lower	Upper
99	100		
42	13.8	10.3	15.5
71	30.2	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

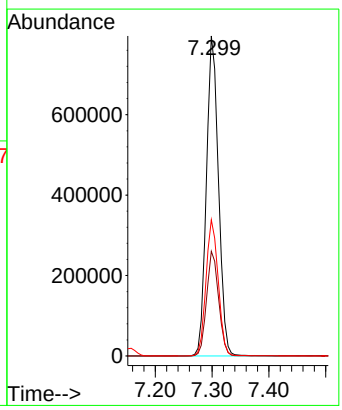
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

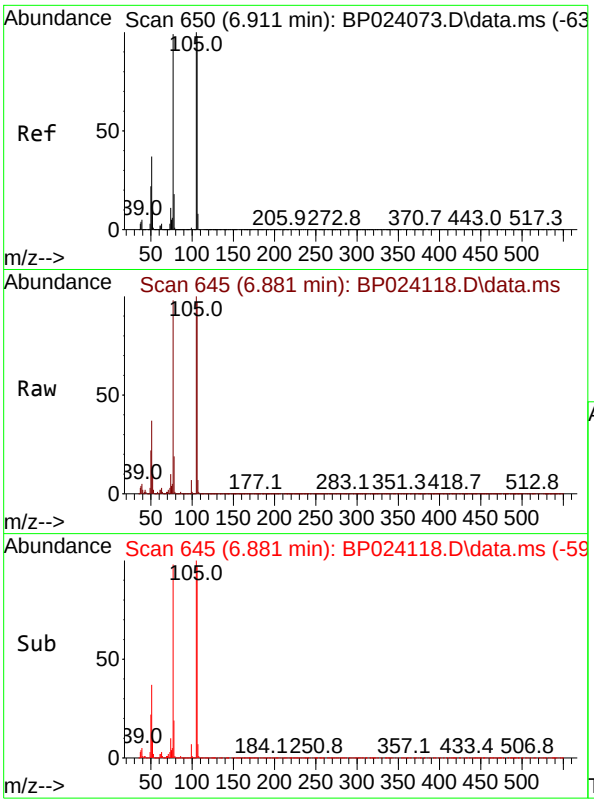


#8
2-Chlorophenol
Concen: 41.196 ng
RT: 7.299 min Scan# 716
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:128 Resp: 1170327

Ion	Ratio	Lower	Upper
128	100		
130	32.7	11.5	51.5
64	42.6	19.8	59.8

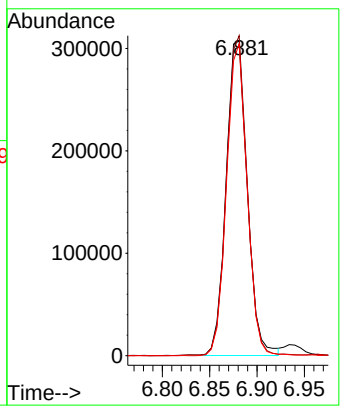




#9
Benzaldehyde
Concen: 30.351 ng
RT: 6.881 min Scan# 64
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 77 Resp: 47802

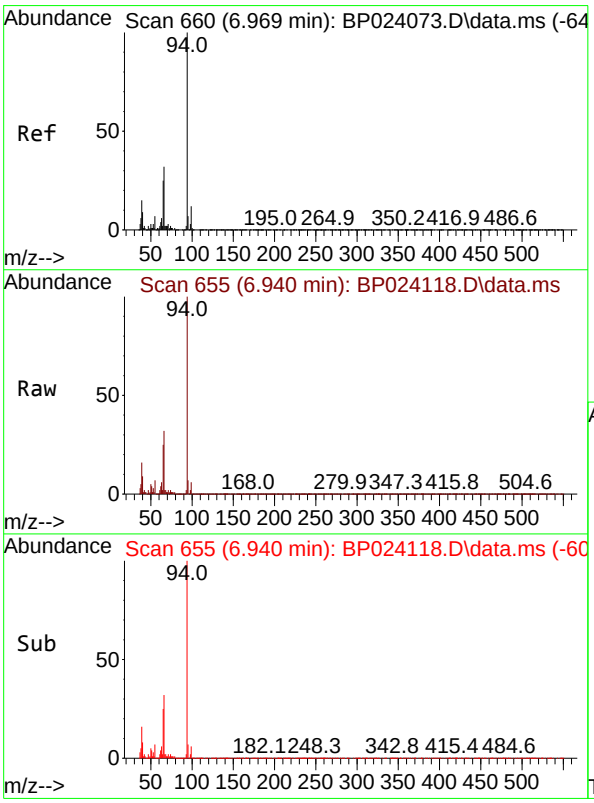
Ion	Ratio	Lower	Upper
77	100		
105	101.7	81.4	121.4
106	99.1	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

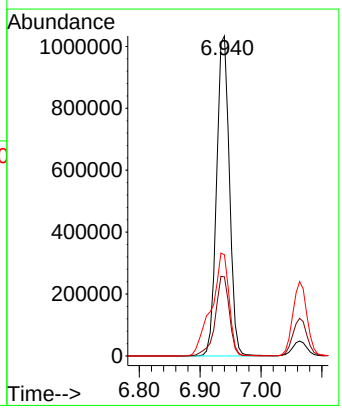
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

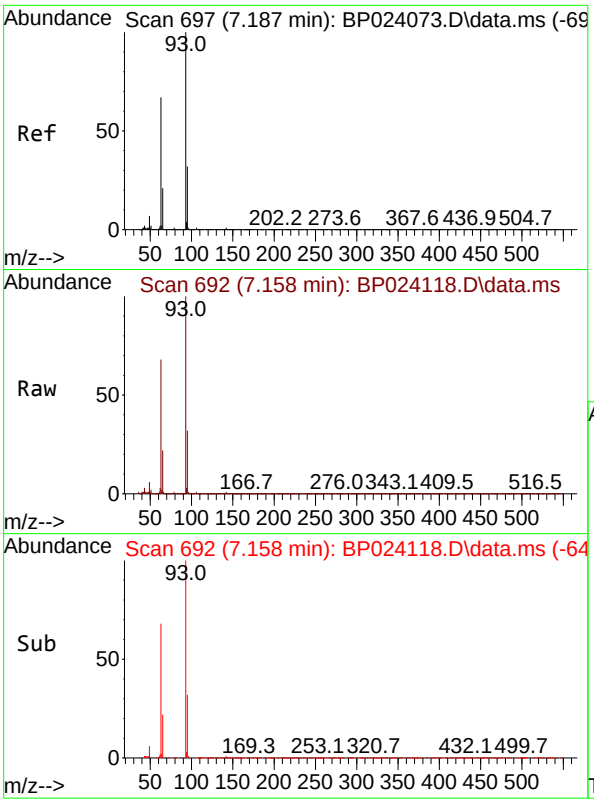


#10
Phenol
Concen: 43.443 ng
RT: 6.940 min Scan# 655
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 94 Resp: 1507006

Ion	Ratio	Lower	Upper
94	100		
65	24.7	5.0	45.0
66	31.7	11.6	51.6

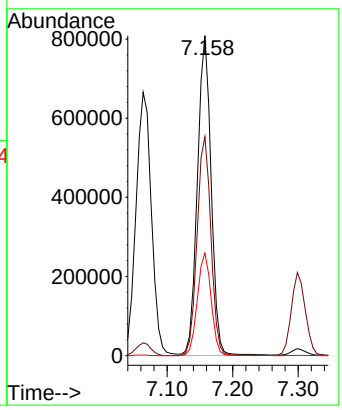




#11
bis(2-Chloroethyl)ether
Concen: 43.153 ng
RT: 7.158 min Scan# 6
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 93 Resp: 117904

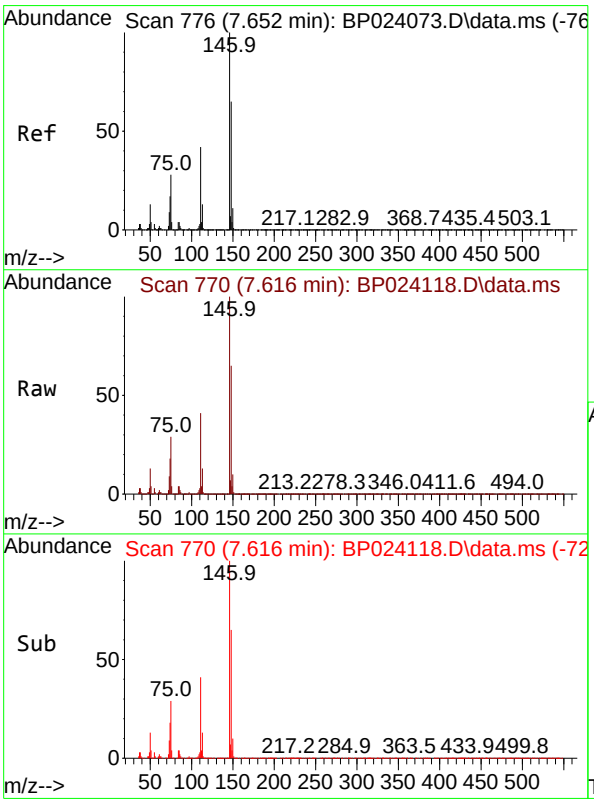
Ion	Ratio	Lower	Upper
93	100		
63	68.4	46.5	86.5
95	32.0	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

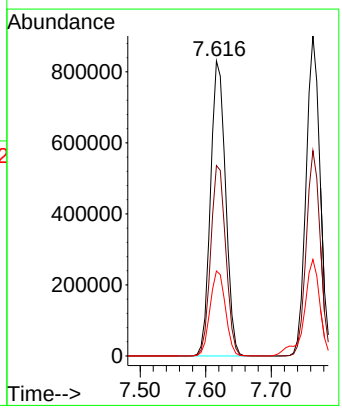
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

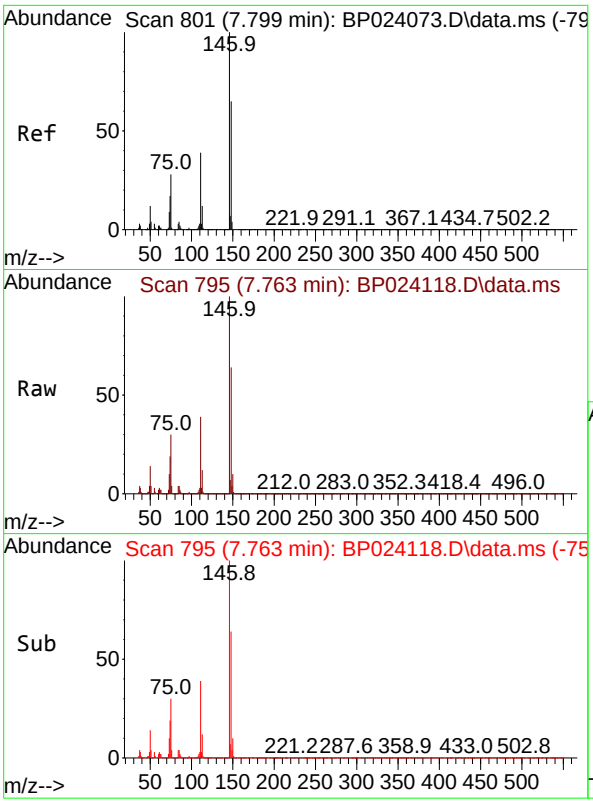


#12
1,3-Dichlorobenzene
Concen: 42.387 ng
RT: 7.616 min Scan# 770
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:146 Resp: 1322861

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.8	77.8
75	28.8	22.6	33.8

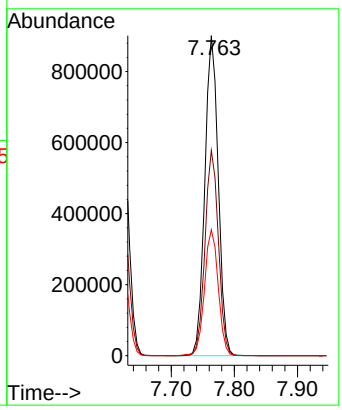




#13
1,4-Dichlorobenzene
Concen: 42.179 ng
RT: 7.763 min Scan# 7
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:146 Resp: 133125

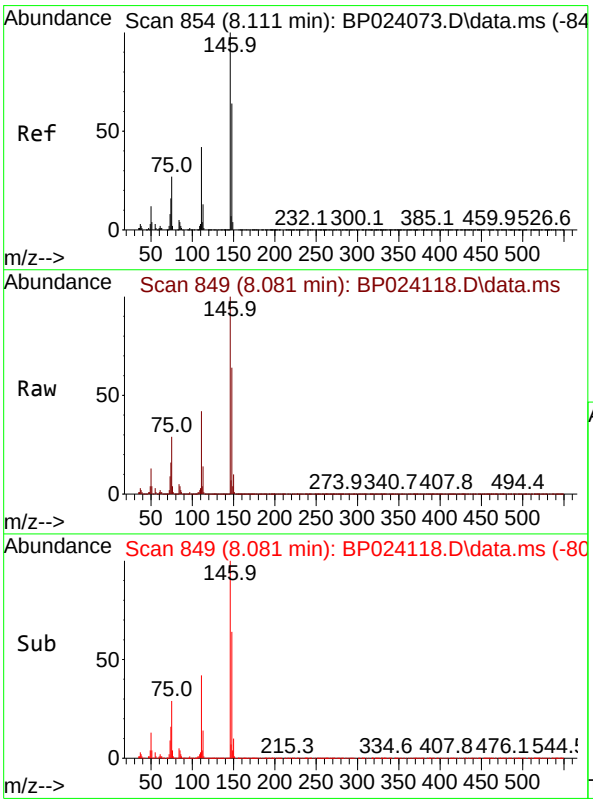
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.6	77.4
111	39.3	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

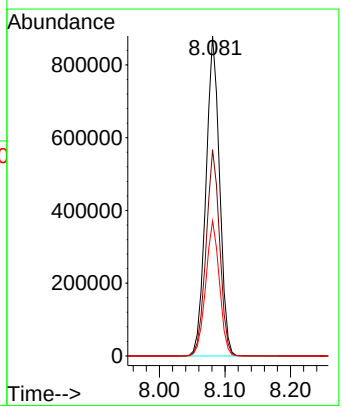
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

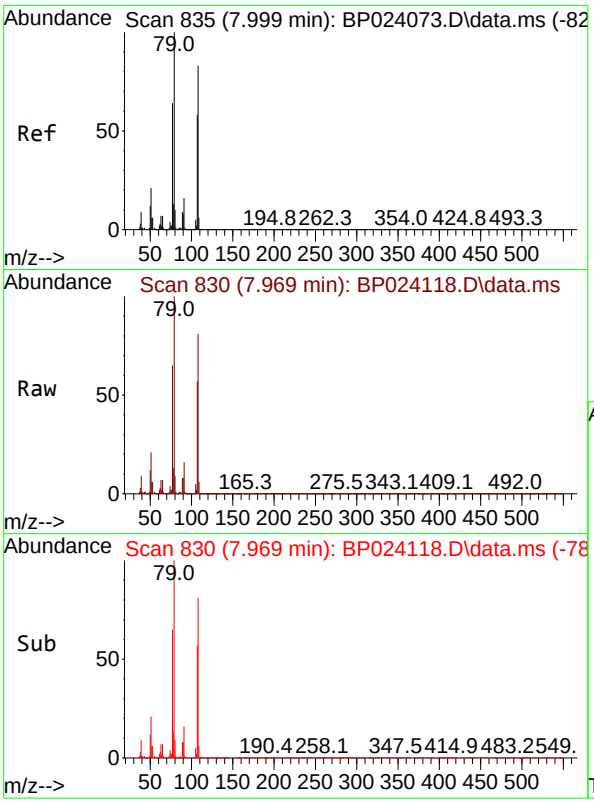


#14
1,2-Dichlorobenzene
Concen: 42.112 ng
RT: 8.081 min Scan# 849
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:146 Resp: 1275564

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	42.2	33.4	50.0

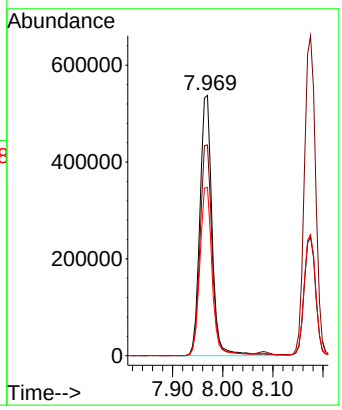




#15
Benzyl Alcohol
Concen: 42.939 ng
RT: 7.969 min Scan# 8
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 79 Resp: 90669

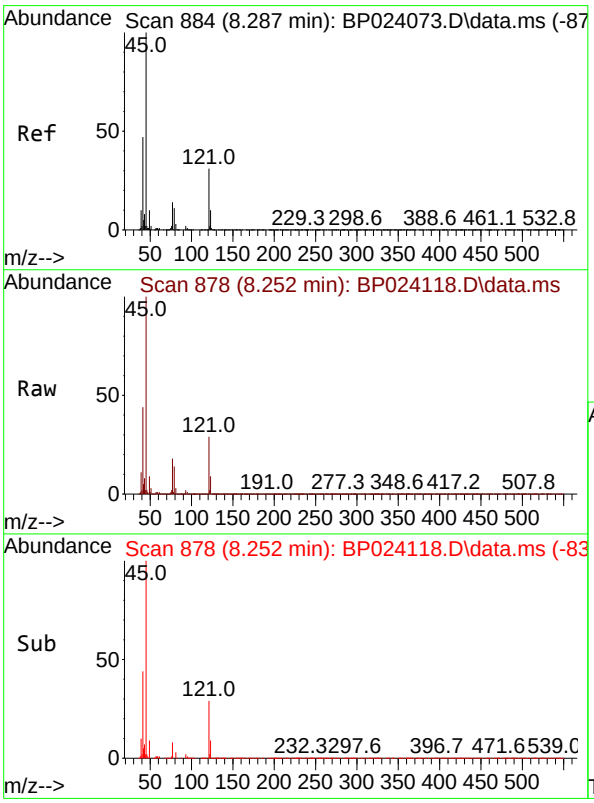
Ion	Ratio	Lower	Upper
79	100		
108	80.9	66.4	99.6
77	64.7	51.3	76.9



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

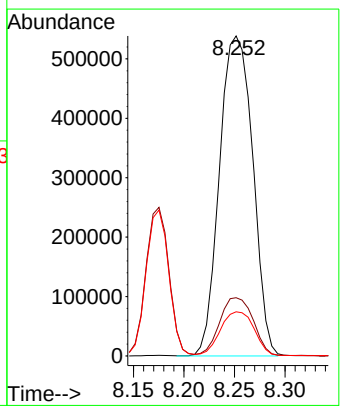
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

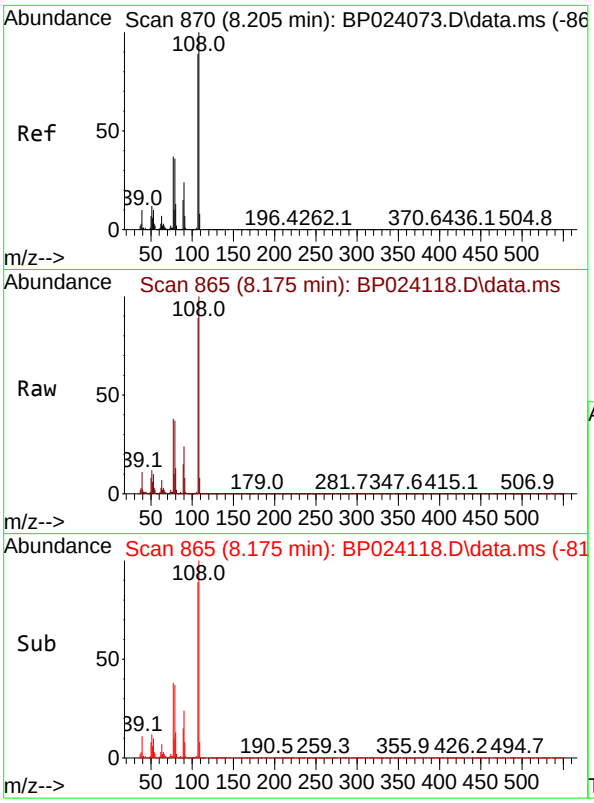


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.610 ng m
RT: 8.252 min Scan# 878
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 45 Resp: 1236225

Ion	Ratio	Lower	Upper
45	100		
77	18.2	0.0	38.8
79	13.8	0.0	35.4

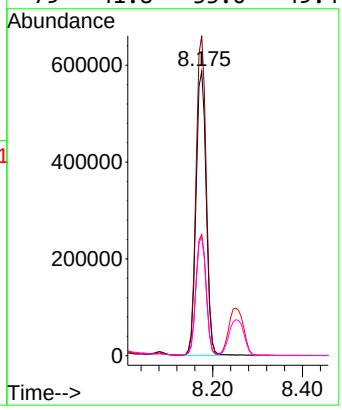




#17
2-Methylphenol
Concen: 43.682 ng
RT: 8.175 min Scan# 8
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:107 Resp: 92341

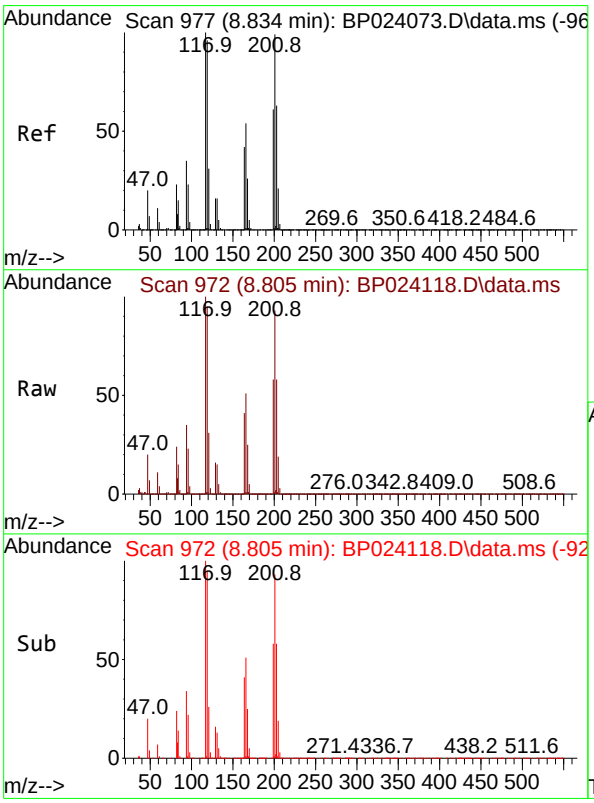
Ion	Ratio	Lower	Upper
107	100		
108	112.5	90.0	135.0
77	42.6	33.8	50.6
79	41.8	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

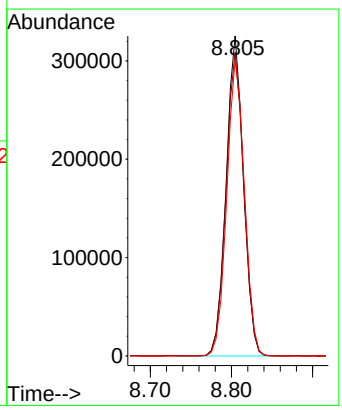
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

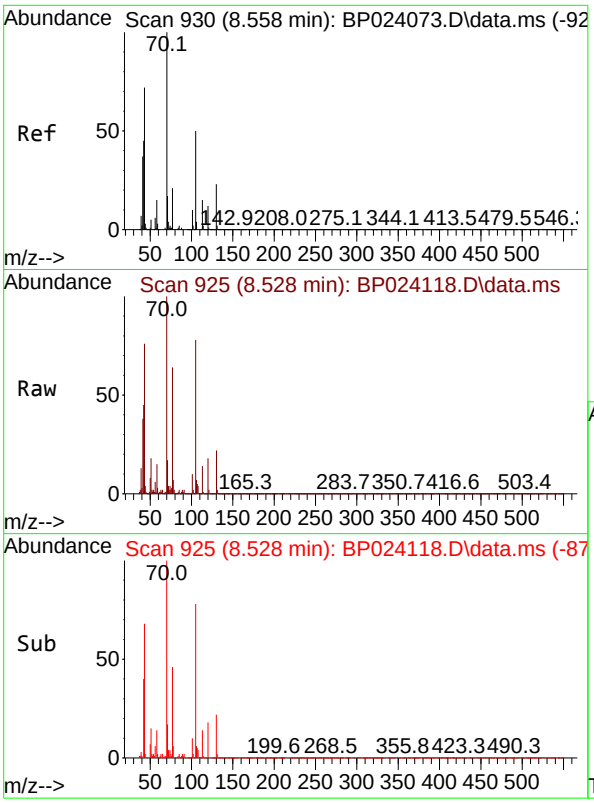


#18
Hexachloroethane
Concen: 42.650 ng
RT: 8.805 min Scan# 972
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:117 Resp: 484787

Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.9	115.3
201	92.8	79.4	119.2

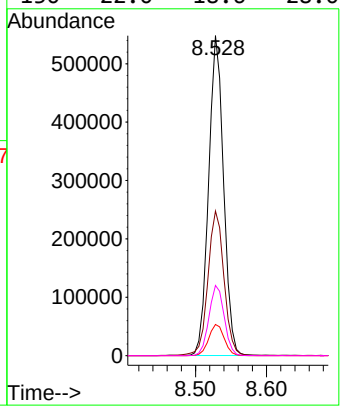




#19
n-Nitroso-di-n-propylamine
Concen: 43.151 ng
RT: 8.528 min Scan# 9
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 70 Resp: 80037

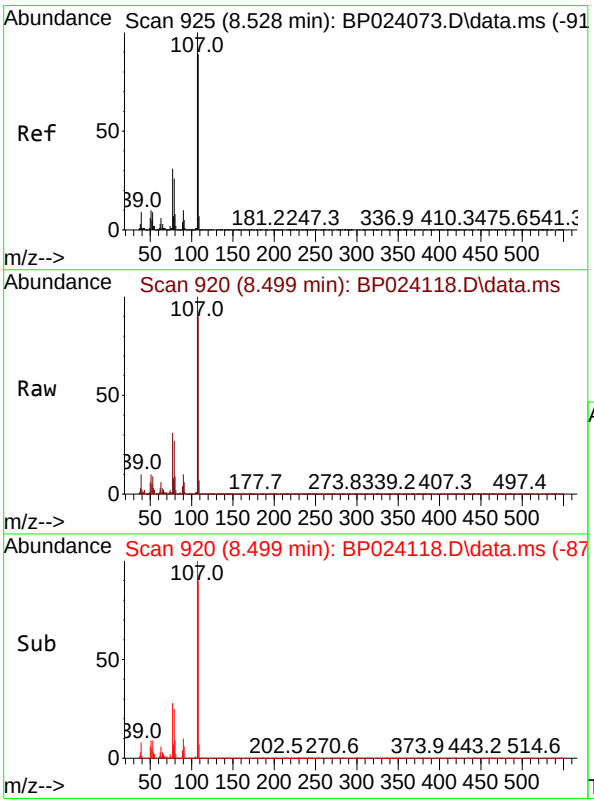
Ion	Ratio	Lower	Upper
70	100		
42	45.2	36.6	54.8
101	9.8	8.2	12.2
130	22.0	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

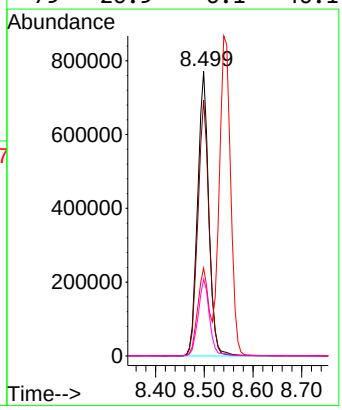
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

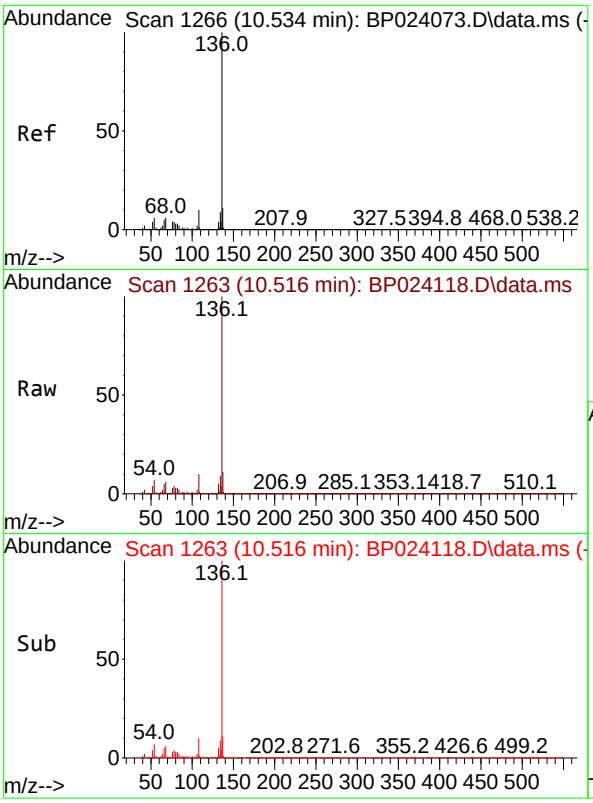


#20
3+4-Methylphenols
Concen: 42.954 ng
RT: 8.499 min Scan# 920
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:107 Resp: 1235246

Ion	Ratio	Lower	Upper
107	100		
108	89.9	68.5	108.5
77	30.9	10.7	50.7
79	26.9	6.1	46.1





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

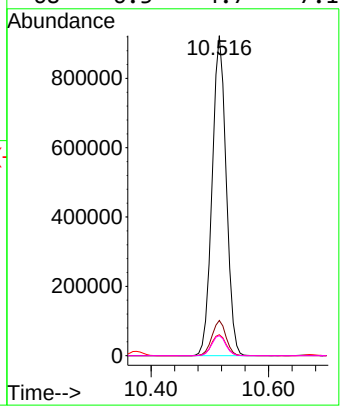
Instrument :
BNA_P
ClientSampleId :
PB166894BS

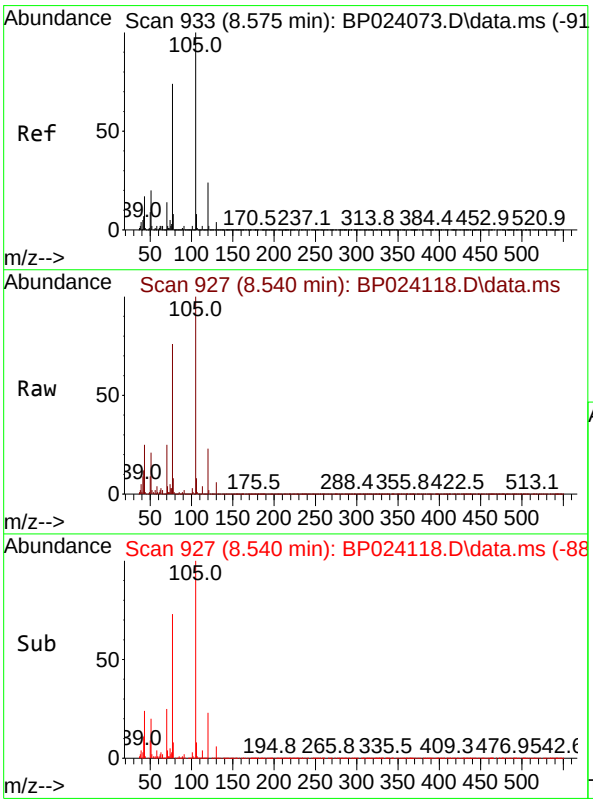
Tgt Ion:136 Resp: 153138

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.7	13.1
54	6.6	4.9	7.3
68	6.3	4.7	7.1

Manual Integrations
APPROVED

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

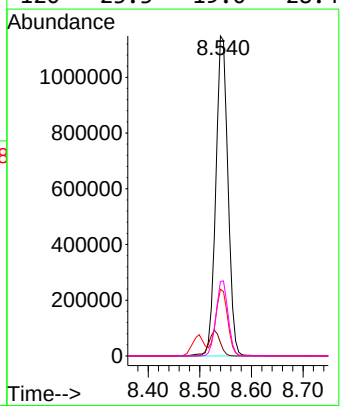


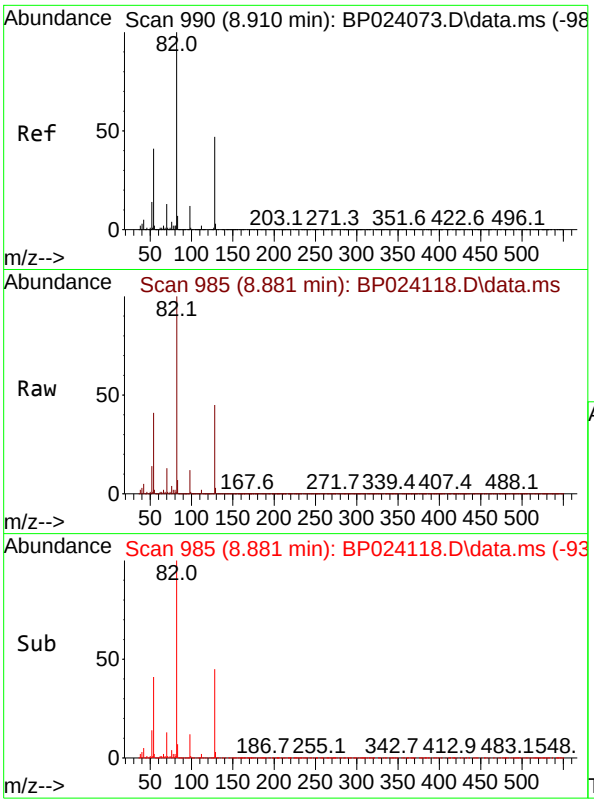


#22
Acetophenone
Concen: 47.629 ng
RT: 8.540 min Scan# 927
Delta R.T. -0.035 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:105 Resp: 1874302

Ion	Ratio	Lower	Upper
105	100		
71	4.2	1.9	2.9#
51	20.8	16.3	24.5
120	23.3	19.0	28.4

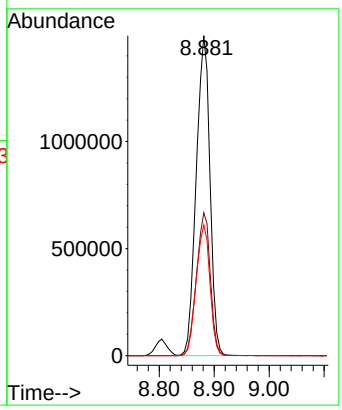




#23
Nitrobenzene-d5
Concen: 94.436 ng
RT: 8.881 min Scan# 9
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 82 Resp: 259223

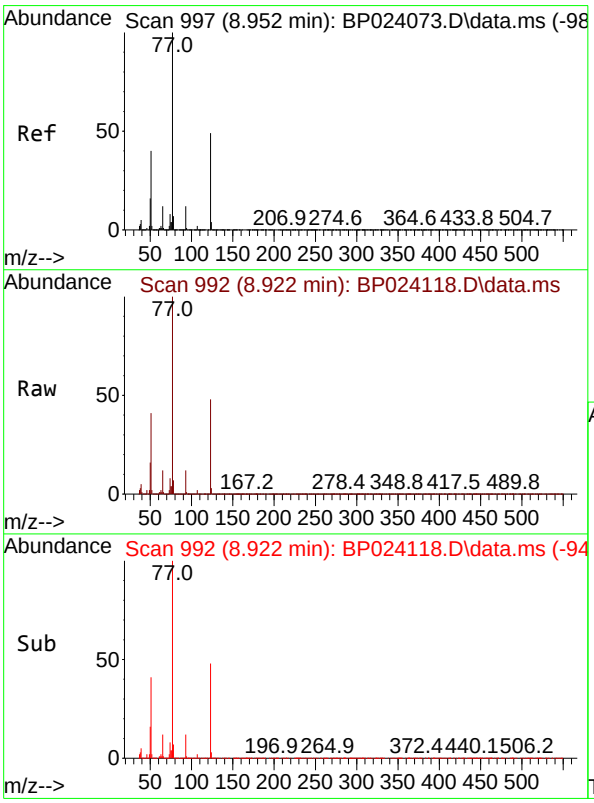
Ion	Ratio	Lower	Upper
82	100		
128	44.6	37.4	56.2
54	40.8	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

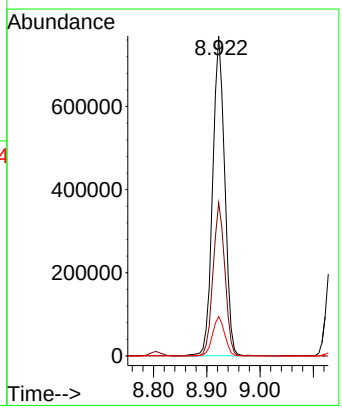
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

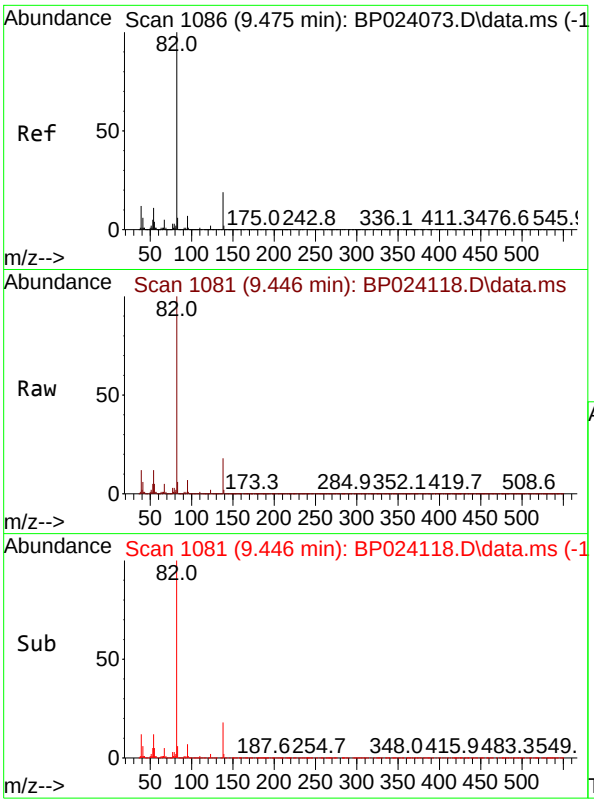


#24
Nitrobenzene
Concen: 44.724 ng
RT: 8.922 min Scan# 992
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 77 Resp: 1208205

Ion	Ratio	Lower	Upper
77	100		
123	47.9	39.4	59.2
65	12.3	9.9	14.9

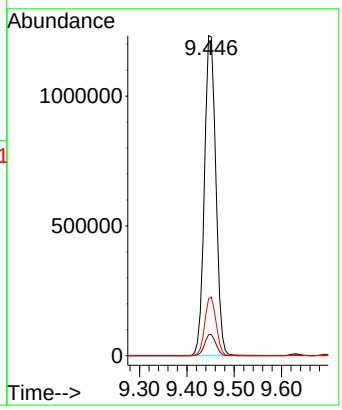




#25
Isophorone
Concen: 46.021 ng
RT: 9.446 min Scan# 1
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 82 Resp: 206577

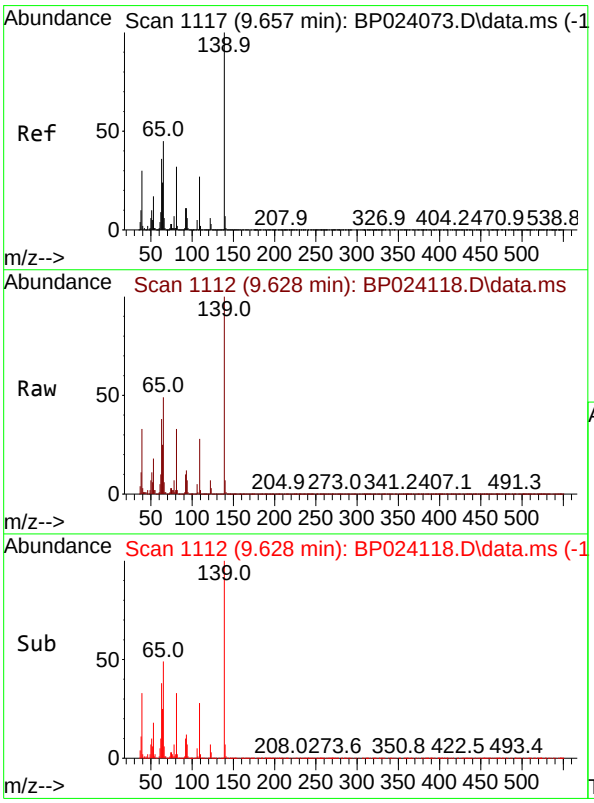
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.4	8.0
138	17.8	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

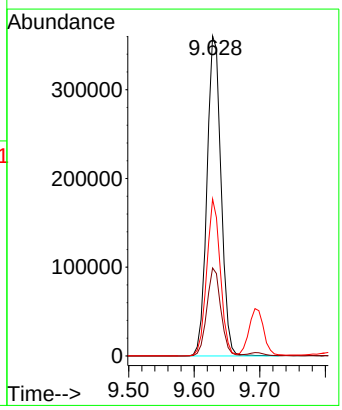
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

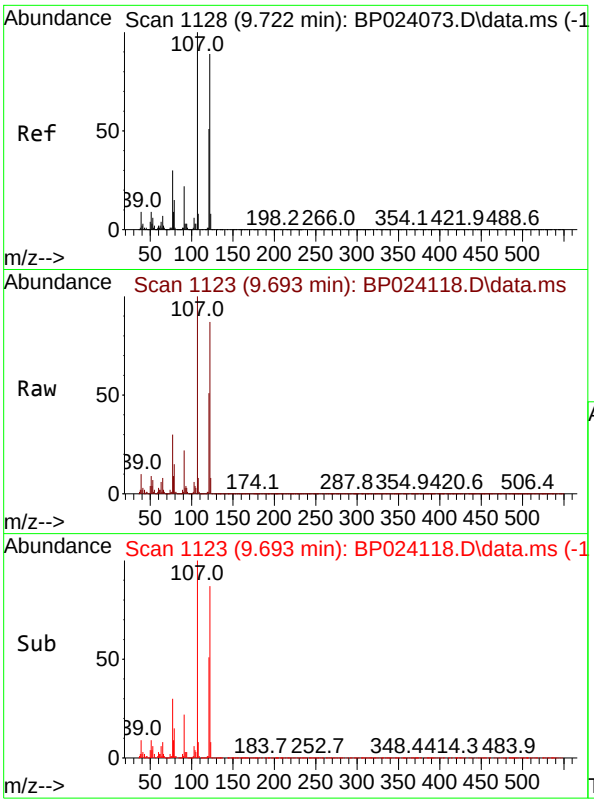


#26
2-Nitrophenol
Concen: 43.257 ng
RT: 9.628 min Scan# 1112
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:139 Resp: 538371

Ion	Ratio	Lower	Upper
139	100		
109	27.5	21.7	32.5
65	49.1	36.1	54.1

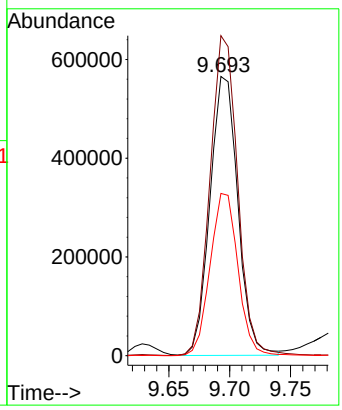




#27
2,4-Dimethylphenol
Concen: 55.169 ng
RT: 9.693 min Scan# 11
Delta R.T. -0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:122 Resp: 90131

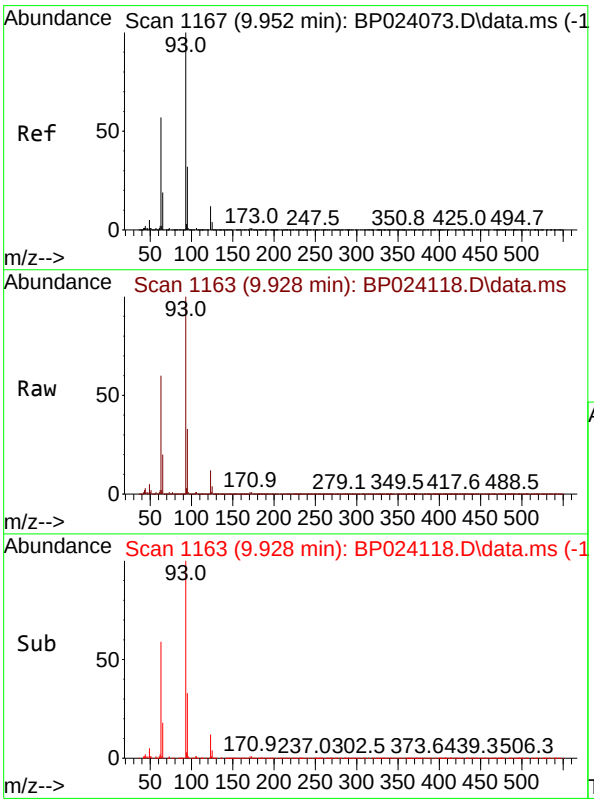
Ion	Ratio	Lower	Upper
122	100		
107	114.6	89.8	134.8
121	58.1	45.9	68.9



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

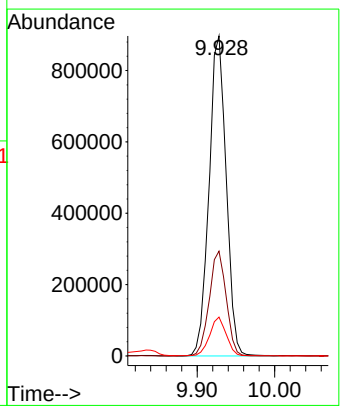
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

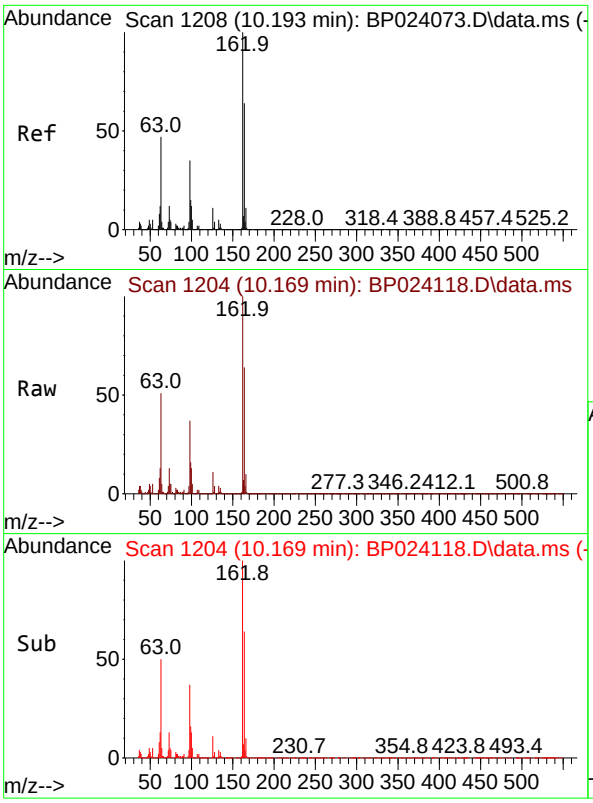


#28
bis(2-Chloroethoxy)methane
Concen: 42.343 ng
RT: 9.928 min Scan# 1163
Delta R.T. -0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 93 Resp: 1376927

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.9	38.9
123	12.2	9.7	14.5

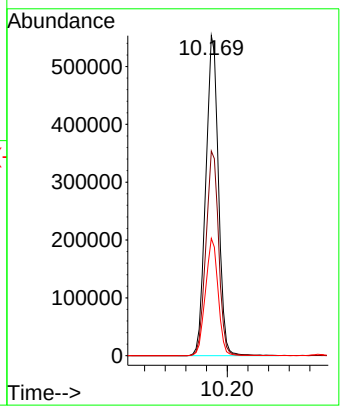




#29
2,4-Dichlorophenol
Concen: 42.147 ng
RT: 10.169 min Scan# 1
Delta R.T. -0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:162 Resp: 93968

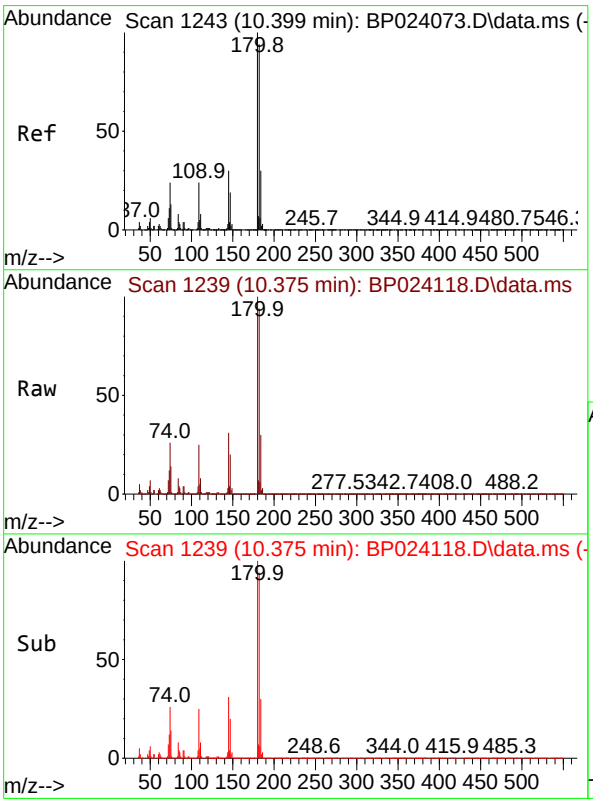
Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.5	84.5
98	36.6	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

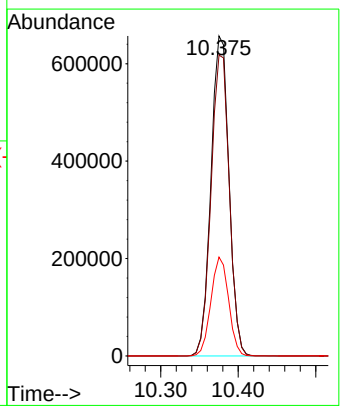
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

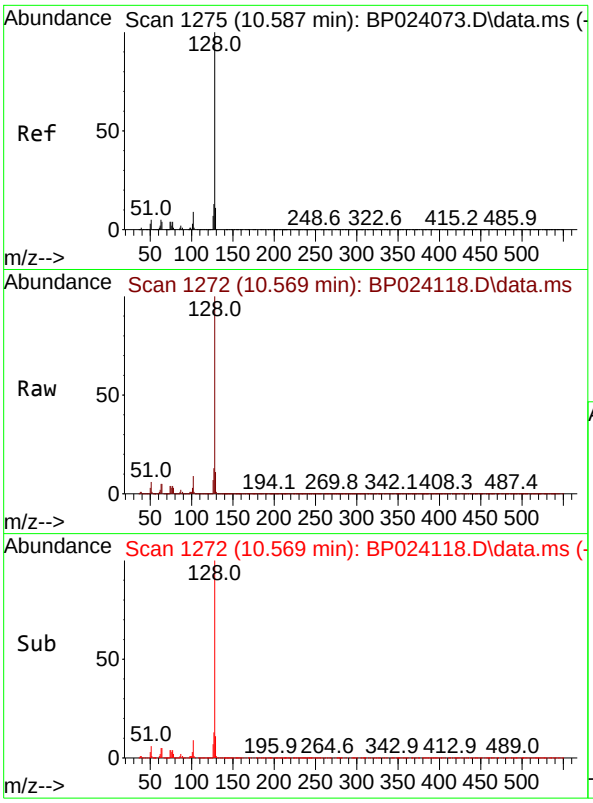


#30
1,2,4-Trichlorobenzene
Concen: 41.518 ng
RT: 10.375 min Scan# 1239
Delta R.T. -0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:180 Resp: 1060579

Ion	Ratio	Lower	Upper
180	100		
182	94.0	75.4	113.2
145	30.9	24.0	36.0

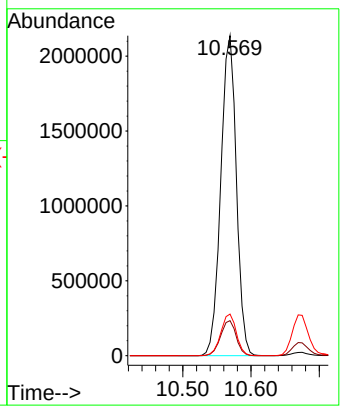




#31
Naphthalene
Concen: 41.285 ng
RT: 10.569 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:128 Resp: 339951

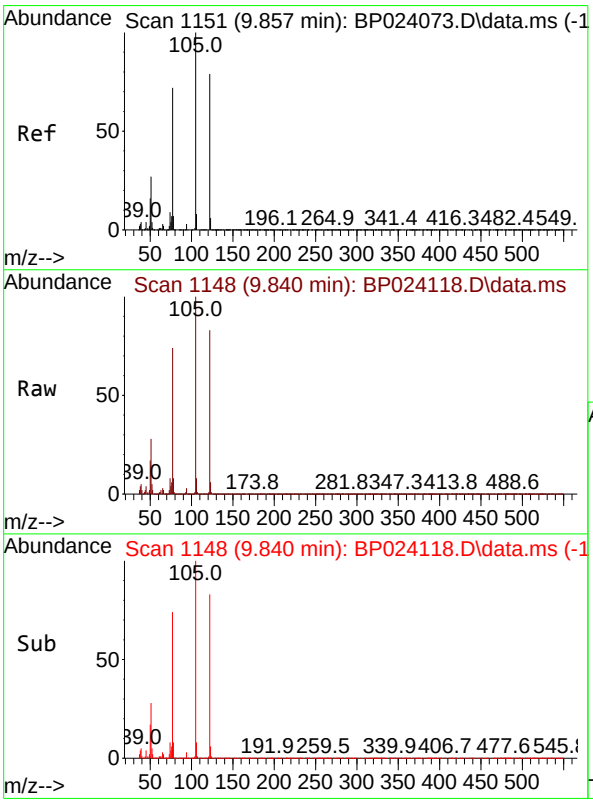
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	13.0
127	13.0	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

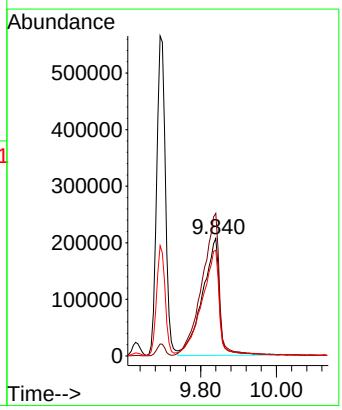
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

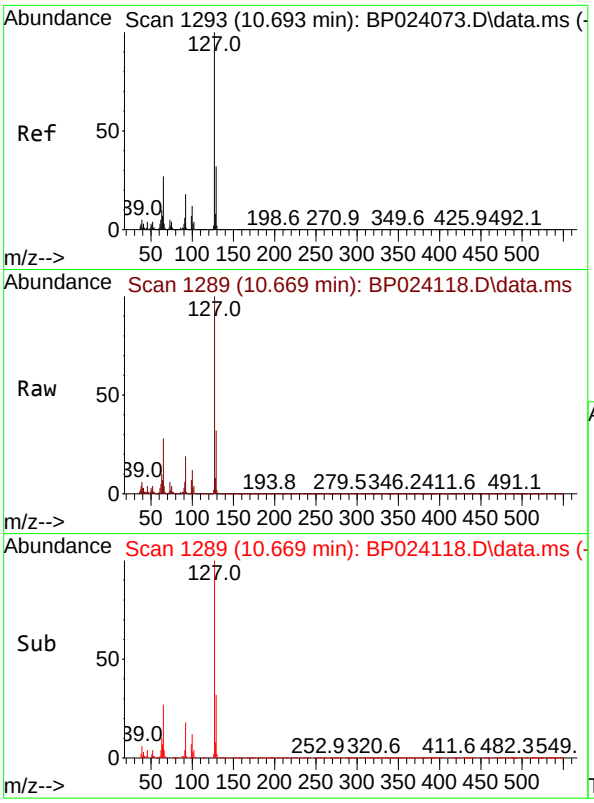


#32
Benzoic acid
Concen: 39.372 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.017 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:122 Resp: 647569

Ion	Ratio	Lower	Upper
122	100		
105	121.2	103.7	143.7
77	89.9	69.9	109.9

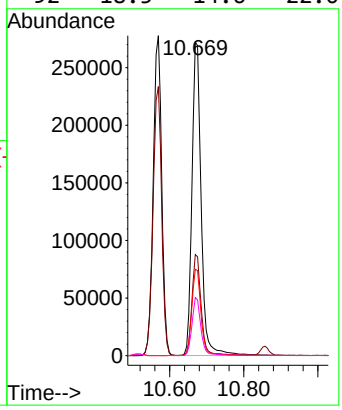




#33
4-Chloroaniline
Concen: 16.269 ng
RT: 10.669 min Scan# 1
Delta R.T. -0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:127 Resp: 47192

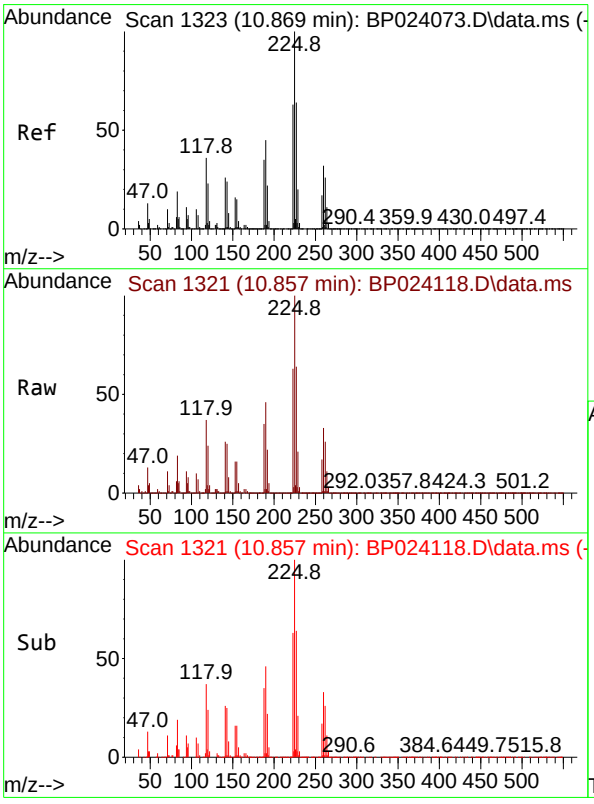
Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.4	38.0
65	27.6	21.3	31.9
92	18.5	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

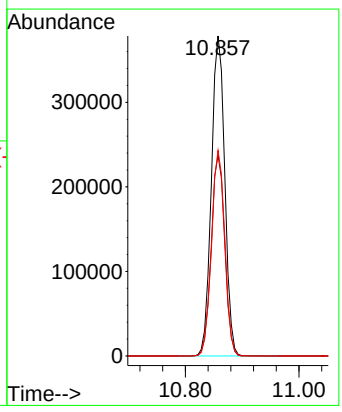
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

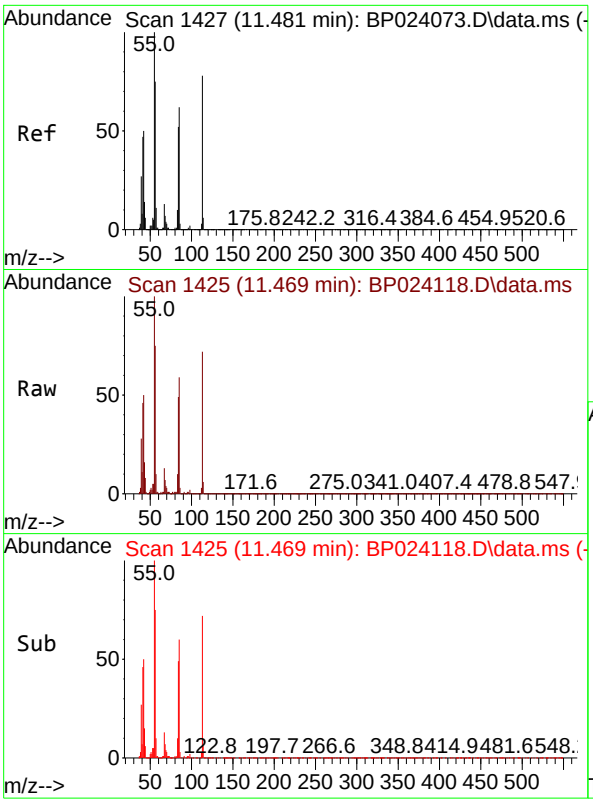


#34
Hexachlorobutadiene
Concen: 41.713 ng
RT: 10.857 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:225 Resp: 617176

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.5	75.7
227	64.3	51.3	76.9

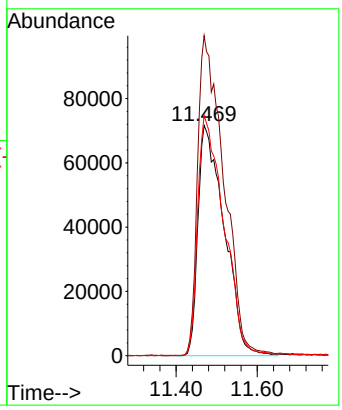




#35
Caprolactam
Concen: 43.300 ng
RT: 11.469 min Scan# 14
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:113 Resp: 32053

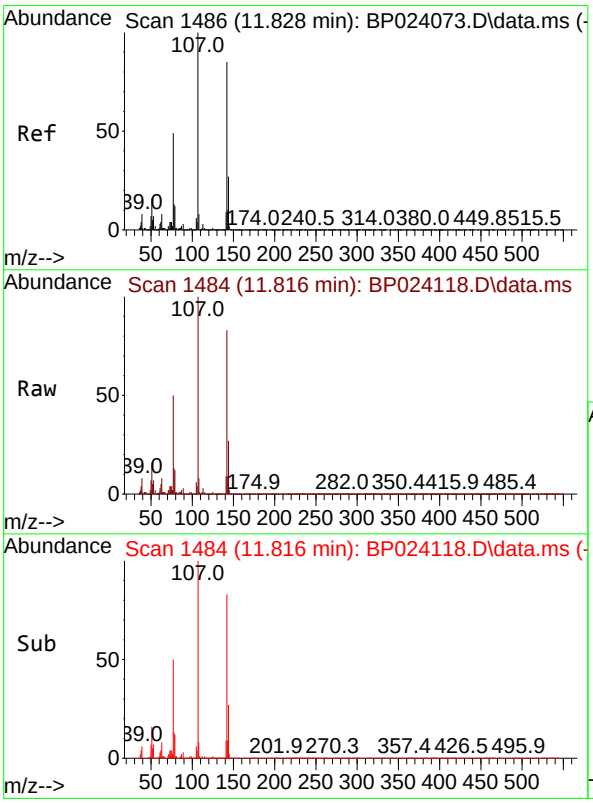
Ion	Ratio	Lower	Upper
113	100		
55	139.0	108.8	148.8
56	104.3	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

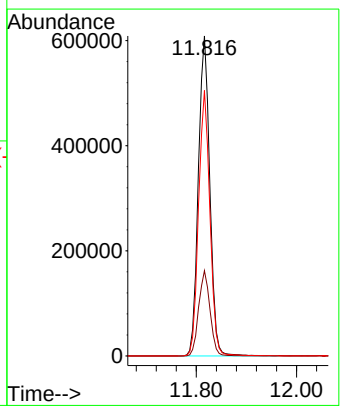
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

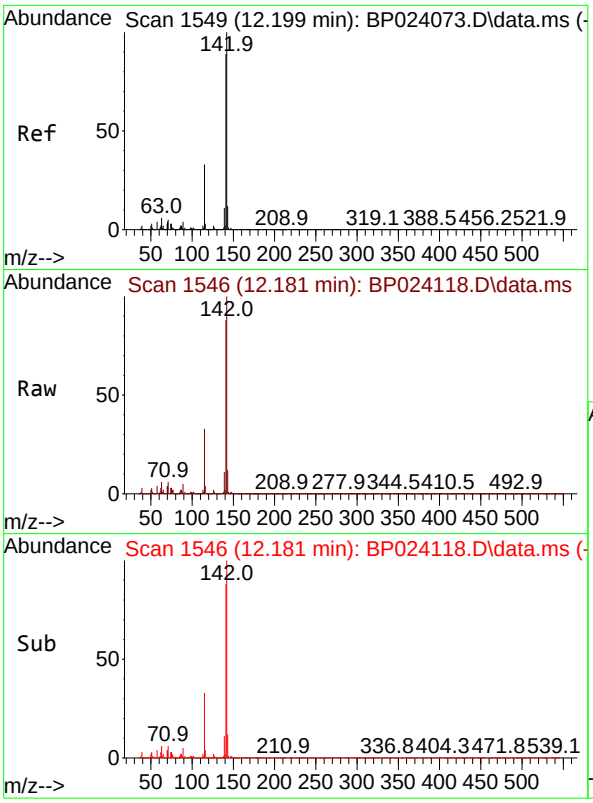


#36
4-Chloro-3-methylphenol
Concen: 42.087 ng
RT: 11.816 min Scan# 1484
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:107 Resp: 964629

Ion	Ratio	Lower	Upper
107	100		
144	26.6	21.8	32.8
142	82.9	67.8	101.8

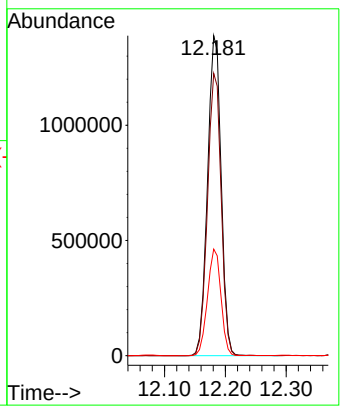




#37
2-Methylnaphthalene
Concen: 39.312 ng
RT: 12.181 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:142 Resp: 215152

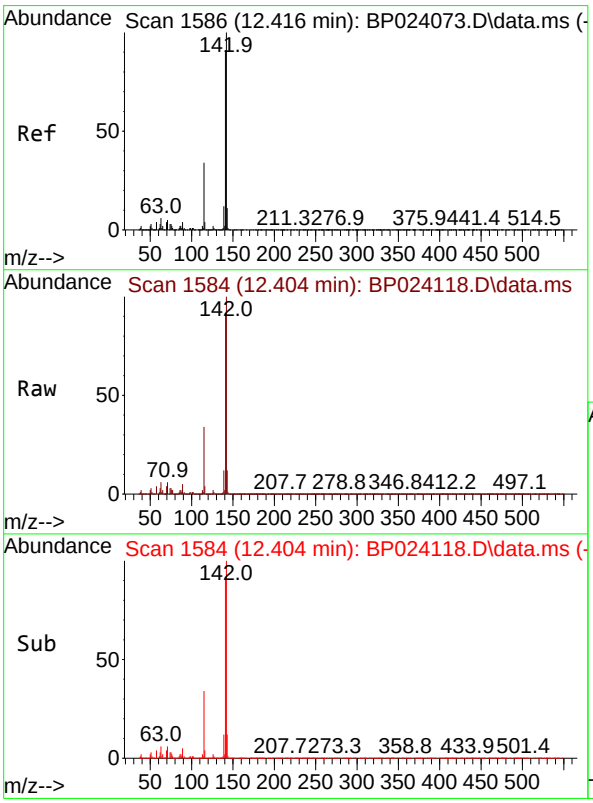
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.2	106.8
115	33.3	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

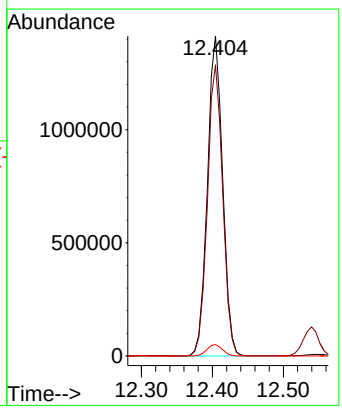
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

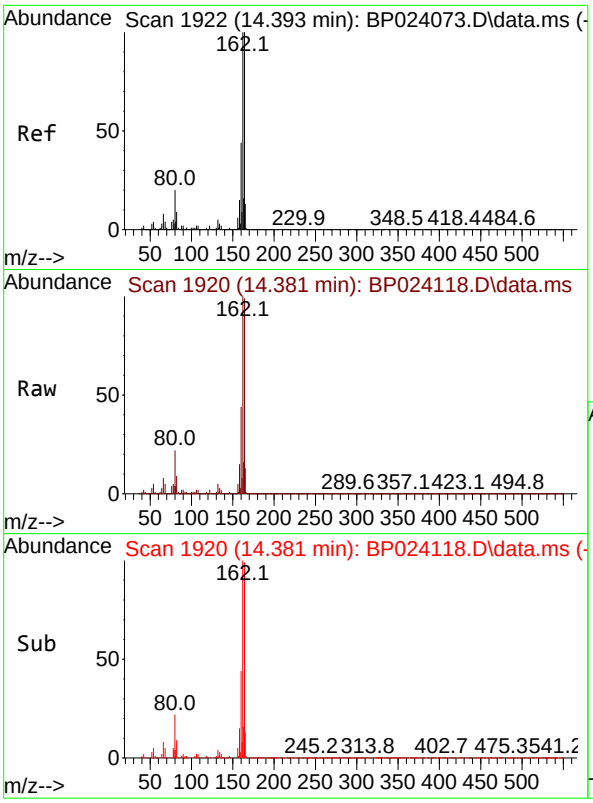


#38
1-Methylnaphthalene
Concen: 39.499 ng
RT: 12.404 min Scan# 1584
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:142 Resp: 2102964

Ion	Ratio	Lower	Upper
142	100		
141	91.0	73.0	109.6
116	3.6	2.8	4.2

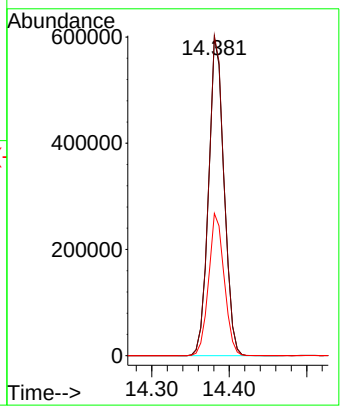




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.381 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:164 Resp: 82703

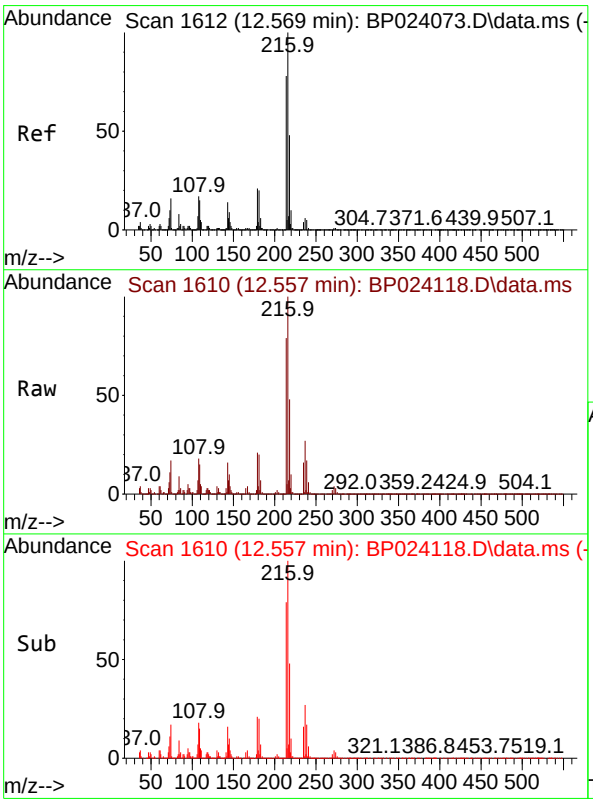
Ion	Ratio	Lower	Upper
164	100		
162	100.6	80.1	120.1
160	44.7	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

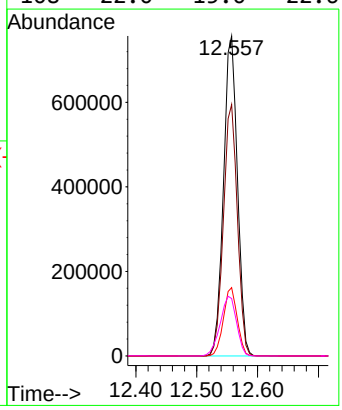
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

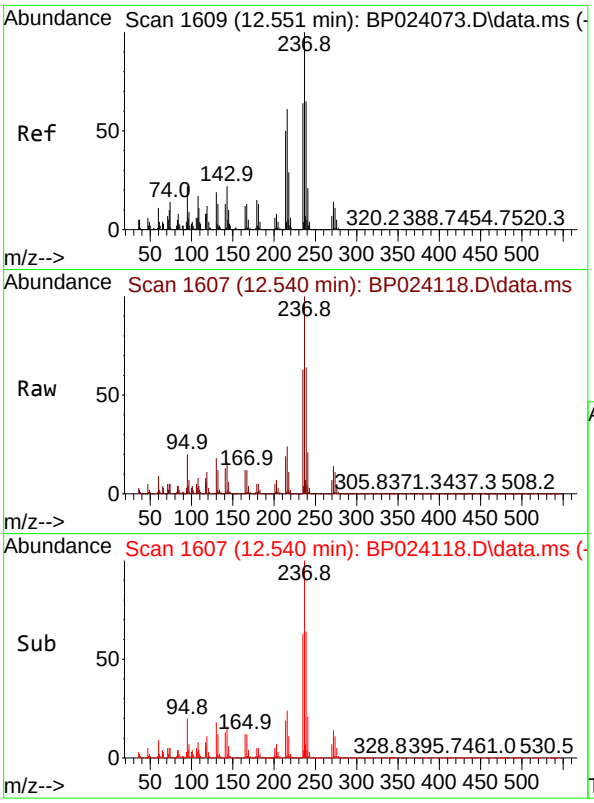


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.284 ng
RT: 12.557 min Scan# 1610
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:216 Resp: 1201536

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.7	94.1
179	21.3	16.6	25.0
108	22.0	15.0	22.6

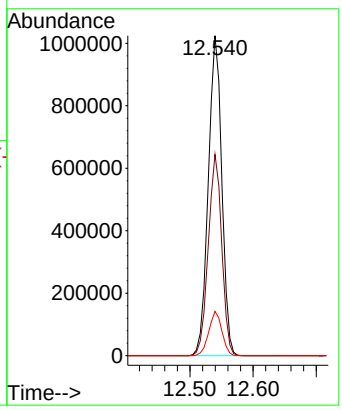




#41
Hexachlorocyclopentadiene
Concen: 160.411 ng
RT: 12.540 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:237 Resp: 151680

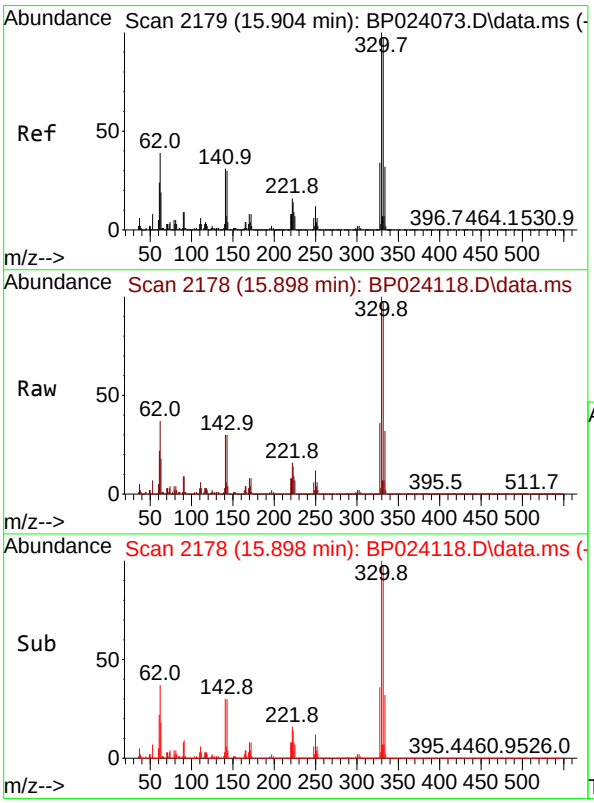
Ion	Ratio	Lower	Upper
237	100		
235	62.9	43.5	83.5
272	13.8	0.0	33.7



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

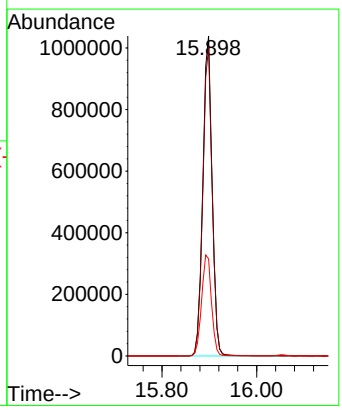
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

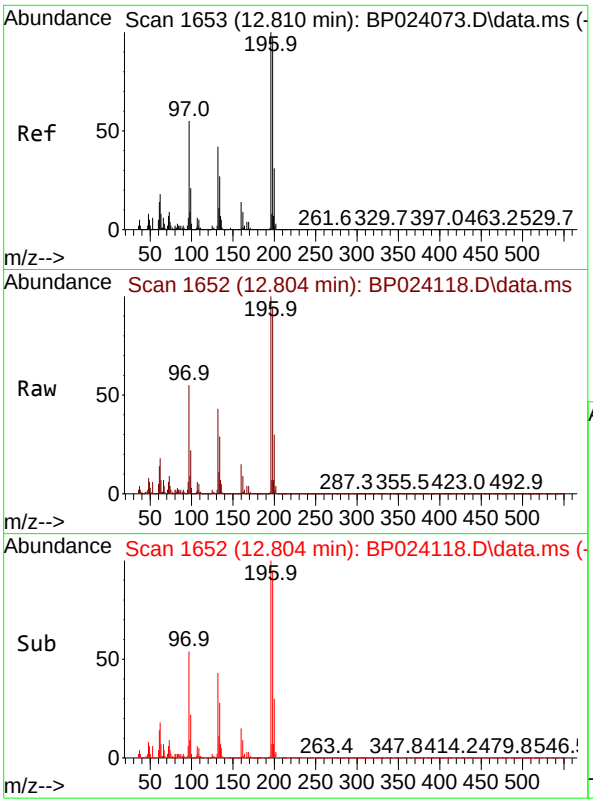


#42
2,4,6-Tribromophenol
Concen: 139.848 ng
RT: 15.898 min Scan# 2178
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:330 Resp: 1416685

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.0	115.4
141	33.5	28.3	42.5

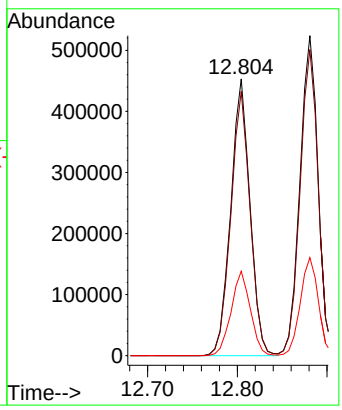




#43
2,4,6-Trichlorophenol
Concen: 43.681 ng
RT: 12.804 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:196 Resp: 67692

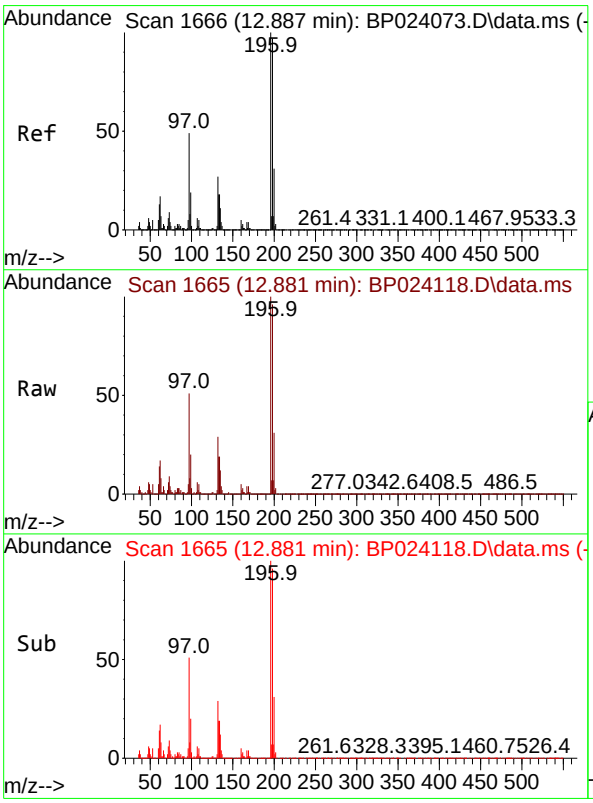
Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.8	116.6
200	30.5	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

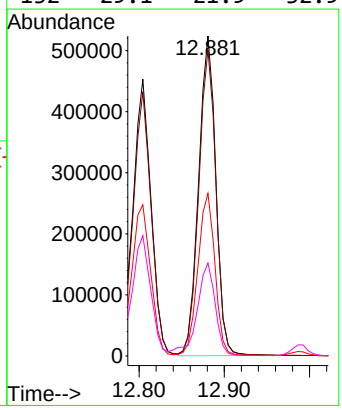
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

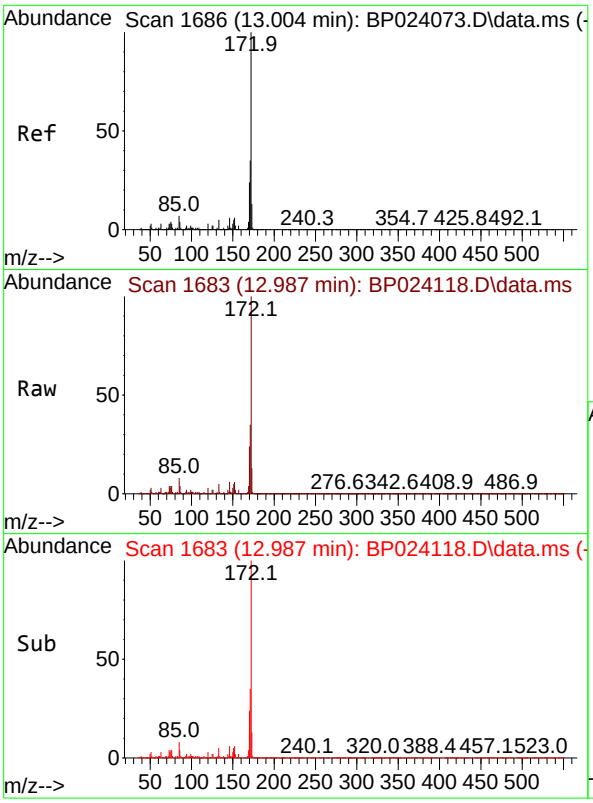


#44
2,4,5-Trichlorophenol
Concen: 43.435 ng
RT: 12.881 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:196 Resp: 736149

Ion	Ratio	Lower	Upper
196	100		
198	95.7	77.4	116.2
97	50.8	39.0	58.4
132	29.1	21.9	32.9

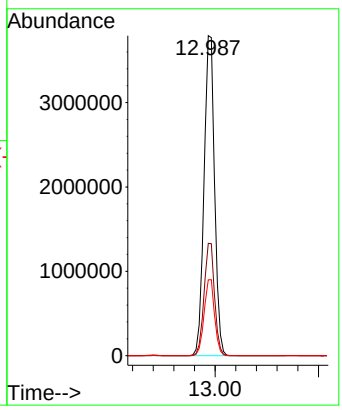




#45
2-Fluorobiphenyl
Concen: 90.464 ng
RT: 12.987 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:172 Resp: 535171

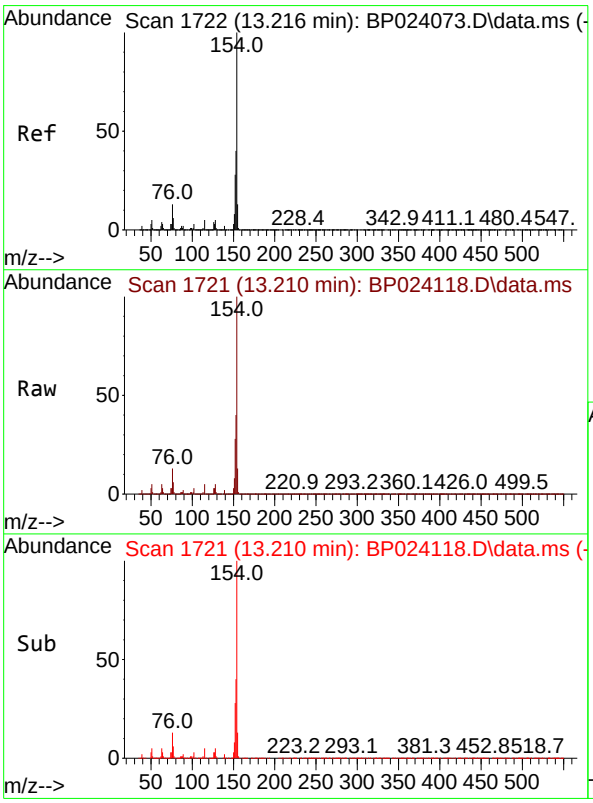
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.2
170	23.7	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

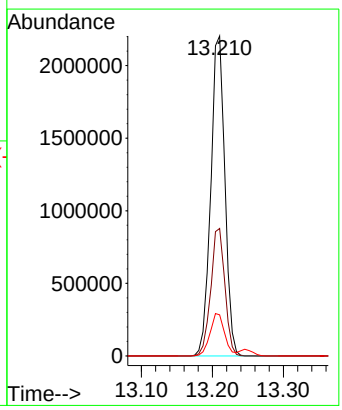
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

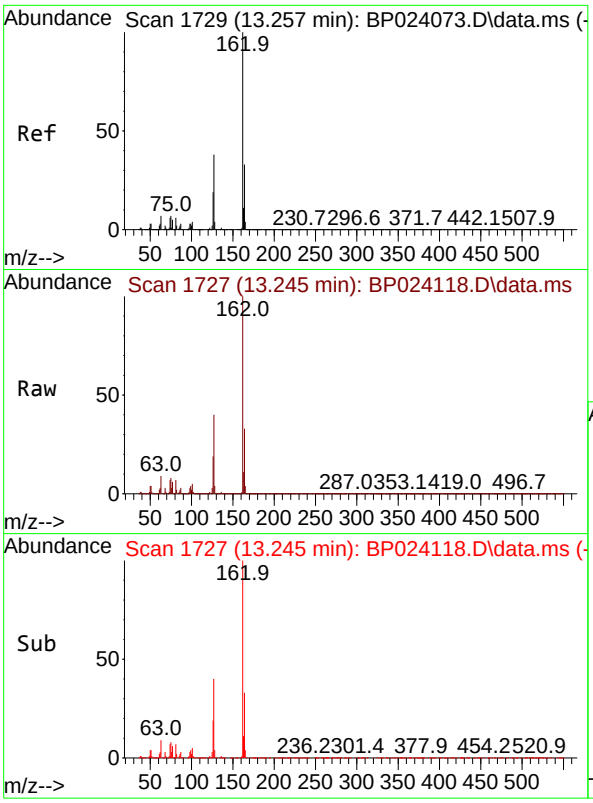


#46
1,1'-Biphenyl
Concen: 47.292 ng
RT: 13.210 min Scan# 1721
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:154 Resp: 3039270

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.0	60.0
76	12.9	0.0	32.6

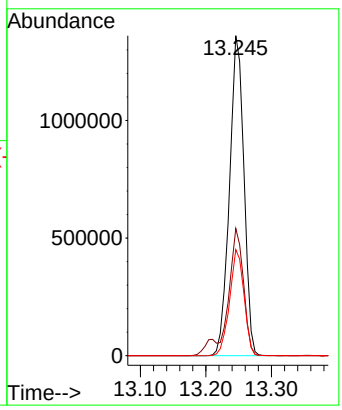




#47
2-Chloronaphthalene
Concen: 43.038 ng
RT: 13.245 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:162 Resp: 209083

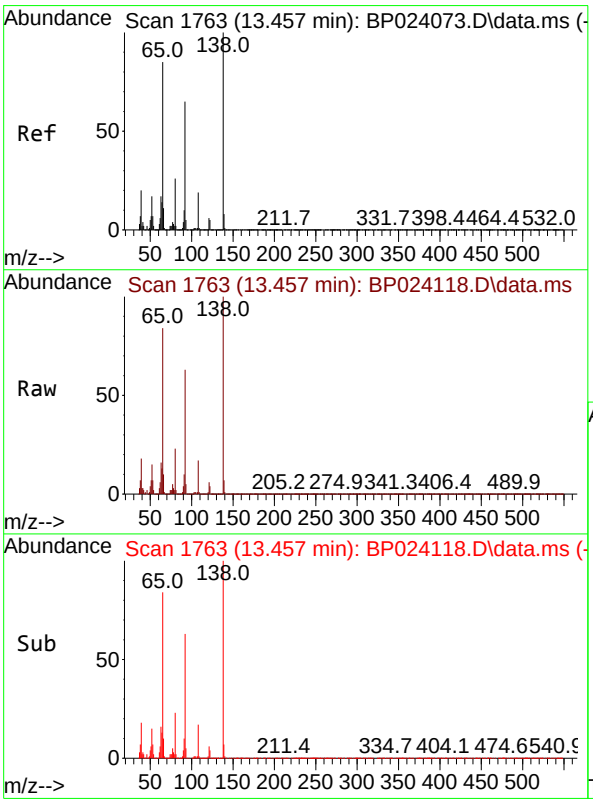
Ion	Ratio	Lower	Upper
162	100		
127	39.8	30.7	46.1
164	33.2	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

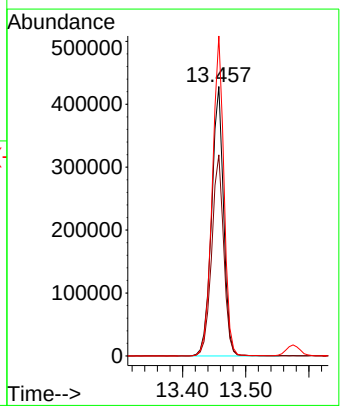
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

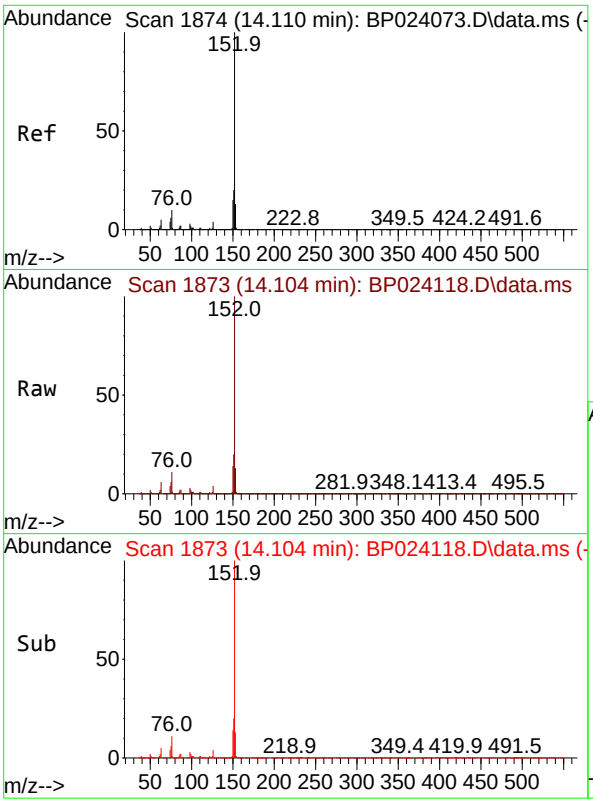


#48
2-Nitroaniline
Concen: 49.103 ng
RT: 13.457 min Scan# 1763
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 65 Resp: 563505

Ion	Ratio	Lower	Upper
65	100		
92	74.7	61.7	92.5
138	118.8	94.6	142.0

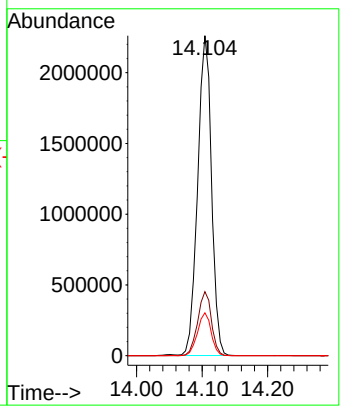




#49
Acenaphthylene
Concen: 46.440 ng
RT: 14.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:152 Resp: 332399

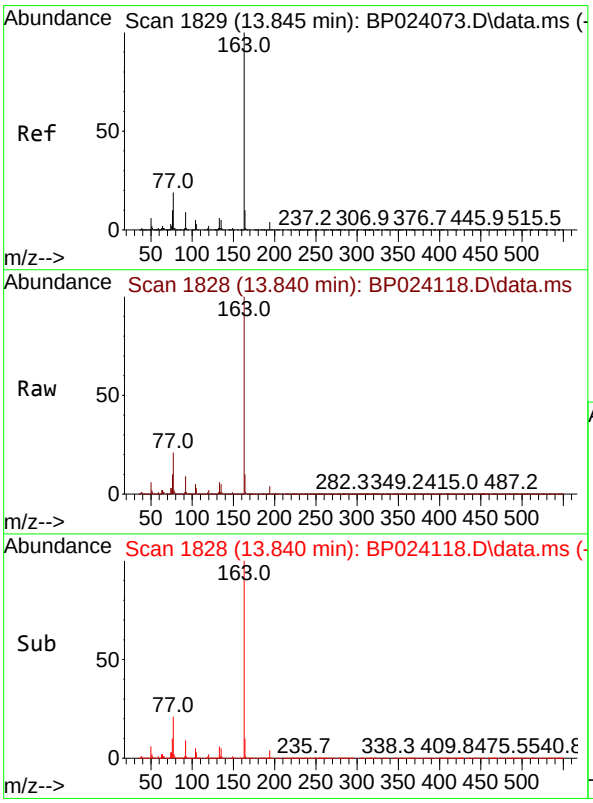
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

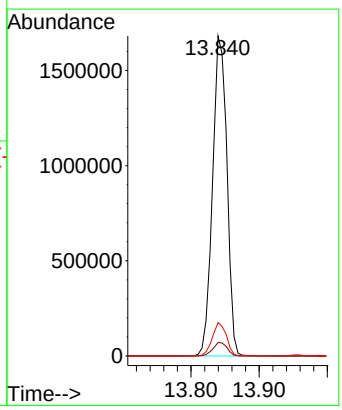
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

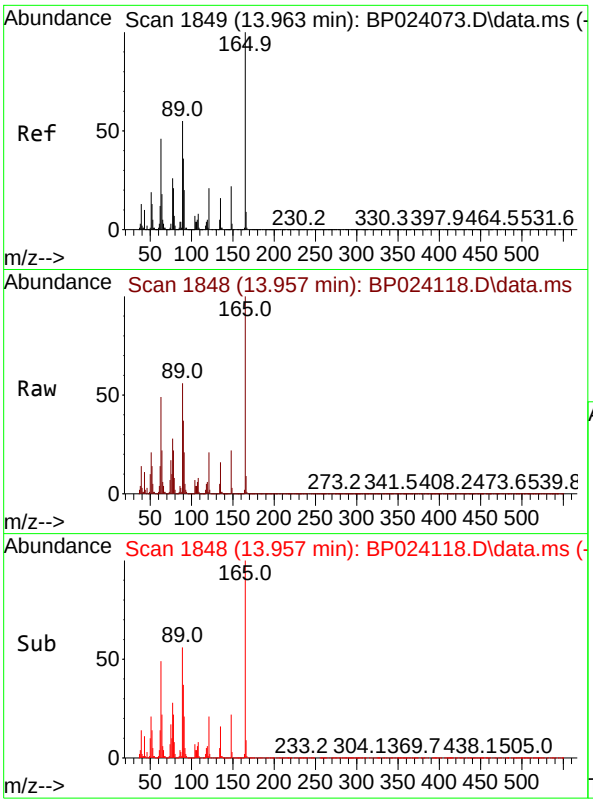


#50
Dimethylphthalate
Concen: 42.284 ng
RT: 13.840 min Scan# 1828
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:163 Resp: 2466726

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.5	8.1	12.1

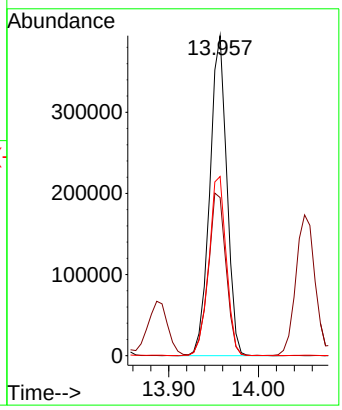




#51
2,6-Dinitrotoluene
Concen: 43.638 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:165 Resp: 51856

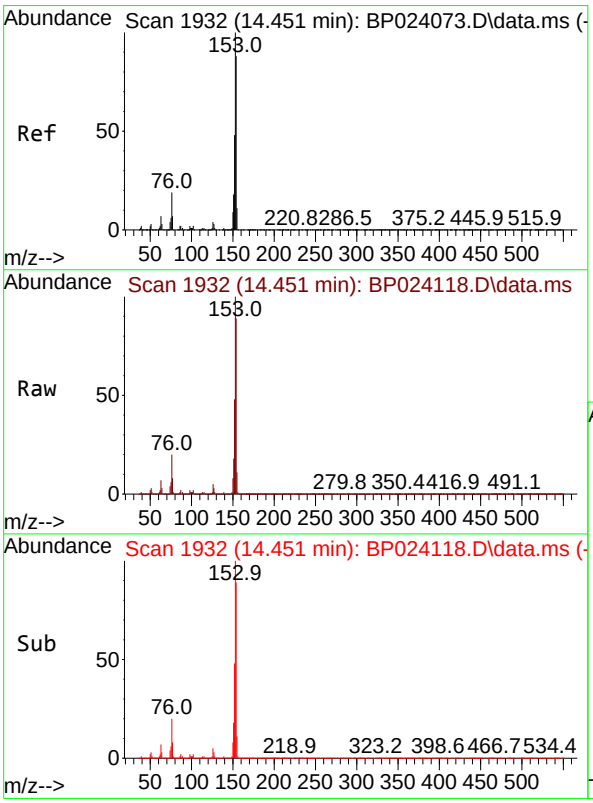
Ion	Ratio	Lower	Upper
165	100		
63	49.4	40.1	60.1
89	56.0	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

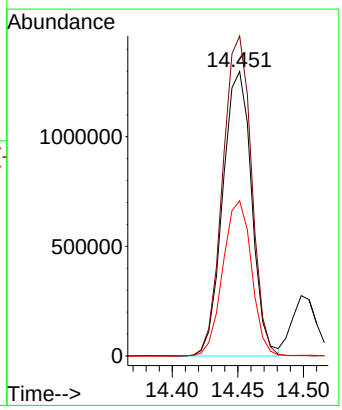
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

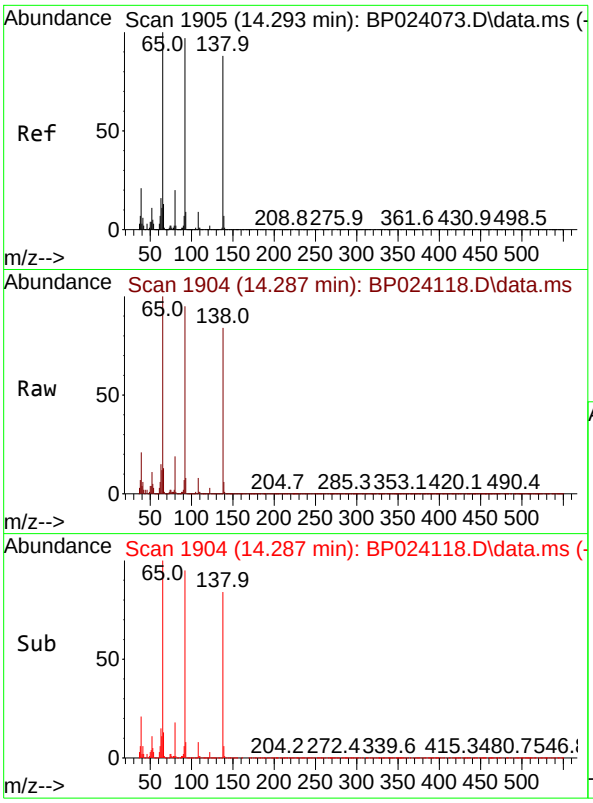


#52
Acenaphthene
Concen: 43.217 ng
RT: 14.451 min Scan# 1932
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:154 Resp: 1991979

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.6	135.8
152	54.6	43.6	65.4





#53
3-Nitroaniline
Concen: 24.702 ng
RT: 14.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

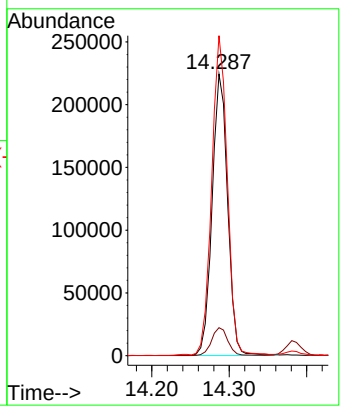
Tgt Ion:138 Resp: 31324

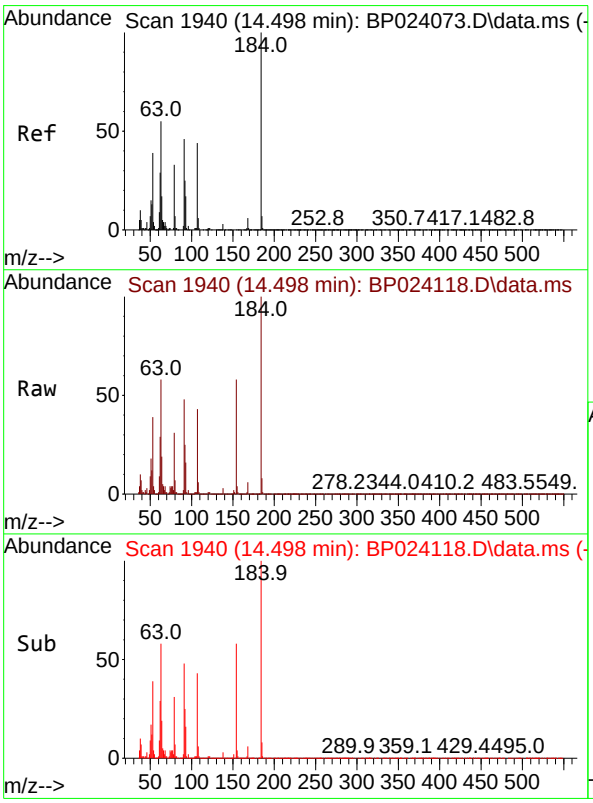
Ion	Ratio	Lower	Upper
138	100		
108	9.9	7.8	11.8
92	113.7	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

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

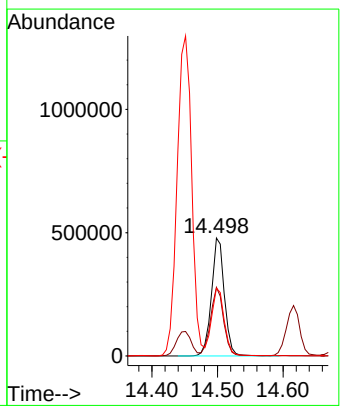


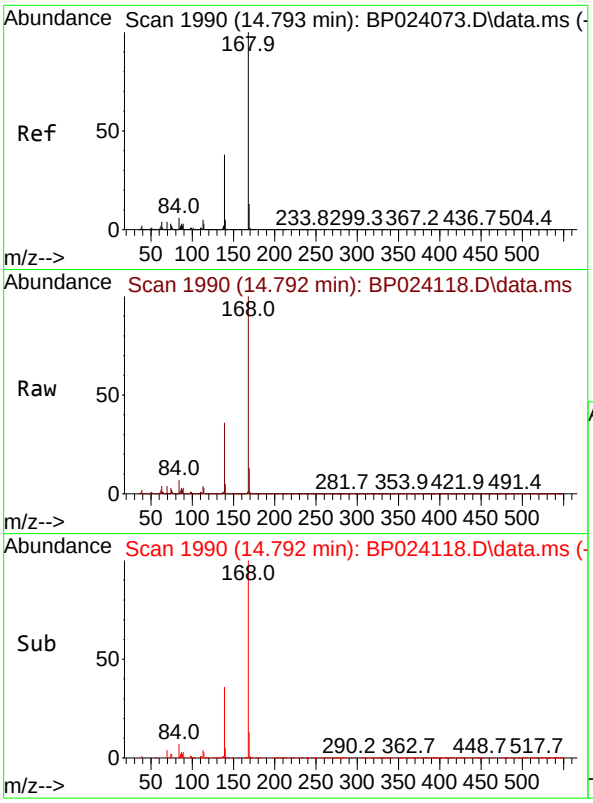


#54
2,4-Dinitrophenol
Concen: 83.259 ng
RT: 14.498 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:184 Resp: 655057

Ion	Ratio	Lower	Upper
184	100		
63	58.2	49.4	74.0
154	57.6	49.2	73.8

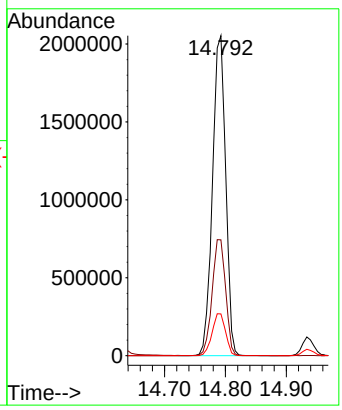




#55
Dibenzofuran
Concen: 41.165 ng
RT: 14.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:168 Resp: 308234

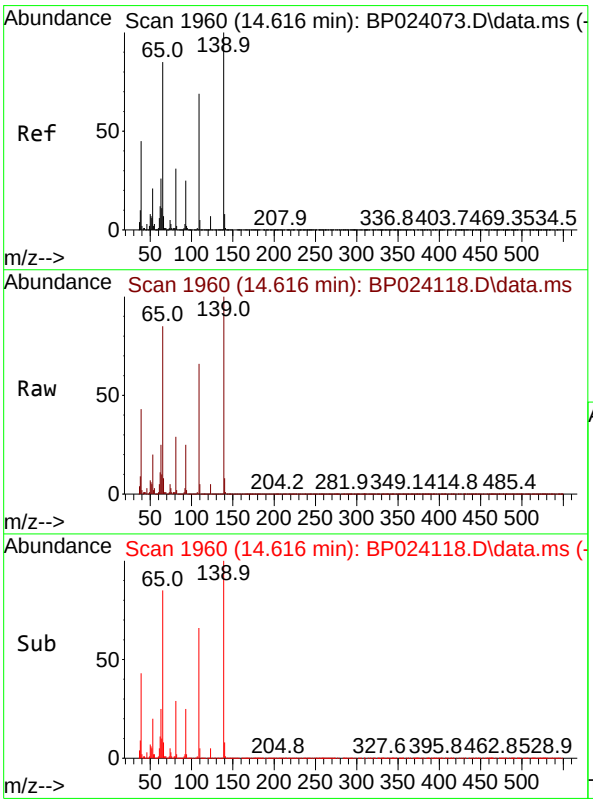
Ion	Ratio	Lower	Upper
168	100		
139	36.2	30.2	45.2
169	13.0	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

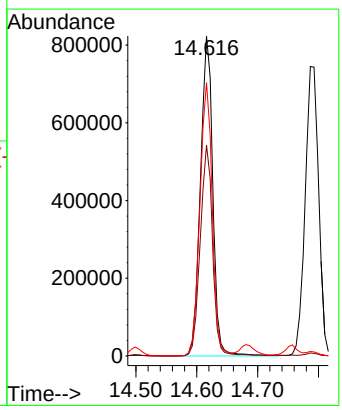
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

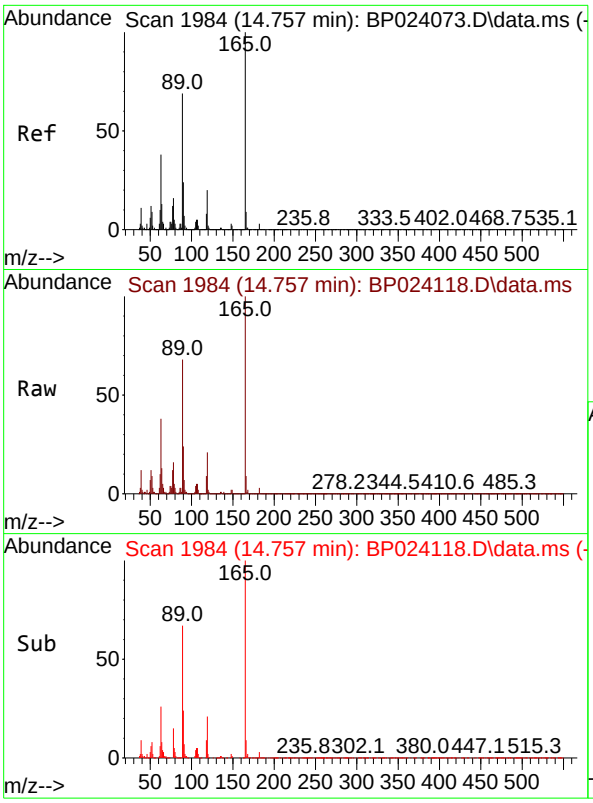


#56
4-Nitrophenol
Concen: 105.882 ng
RT: 14.616 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:139 Resp: 1159812

Ion	Ratio	Lower	Upper
139	100		
109	65.9	49.2	89.2
65	85.4	65.4	105.4

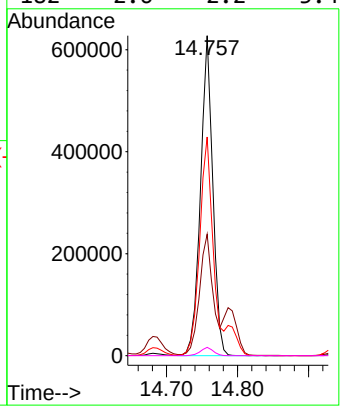




#57
2,4-Dinitrotoluene
Concen: 49.080 ng
RT: 14.757 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:165 Resp: 75765

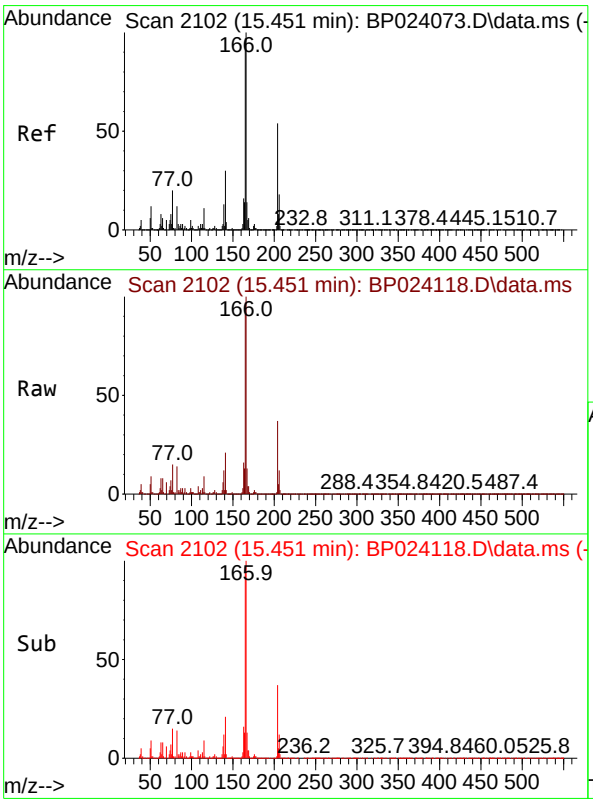
Ion	Ratio	Lower	Upper
165	100		
63	37.9	30.4	45.6
89	68.4	54.8	82.2
182	2.6	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

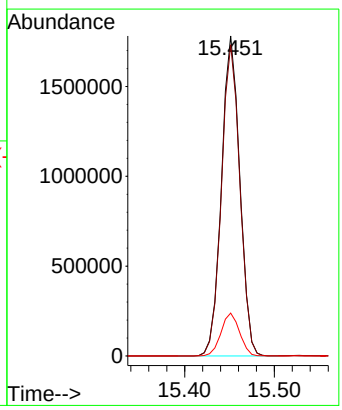
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

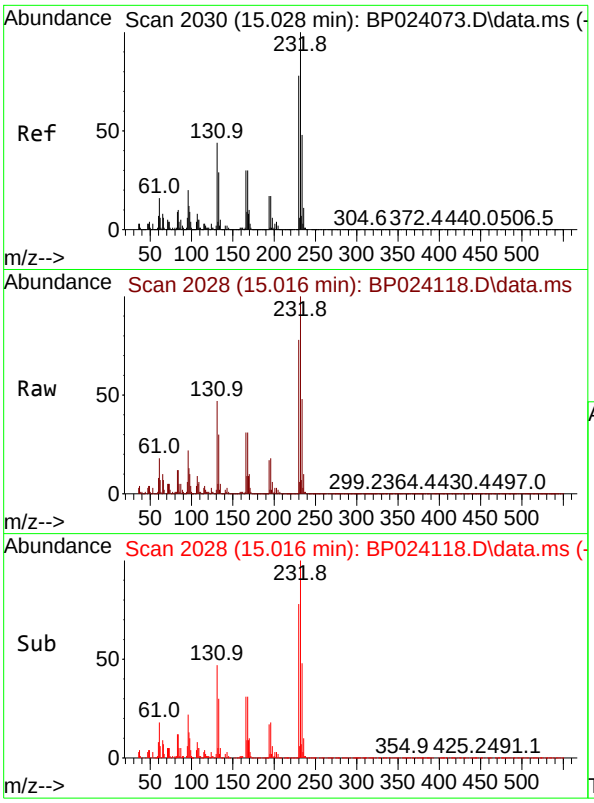


#58
Fluorene
Concen: 43.255 ng
RT: 15.451 min Scan# 2102
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:166 Resp: 2529418

Ion	Ratio	Lower	Upper
166	100		
165	97.2	77.5	116.3
167	13.4	10.9	16.3

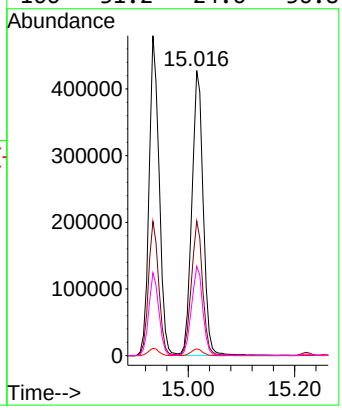




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.927 ng
RT: 15.016 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:232 Resp: 63121

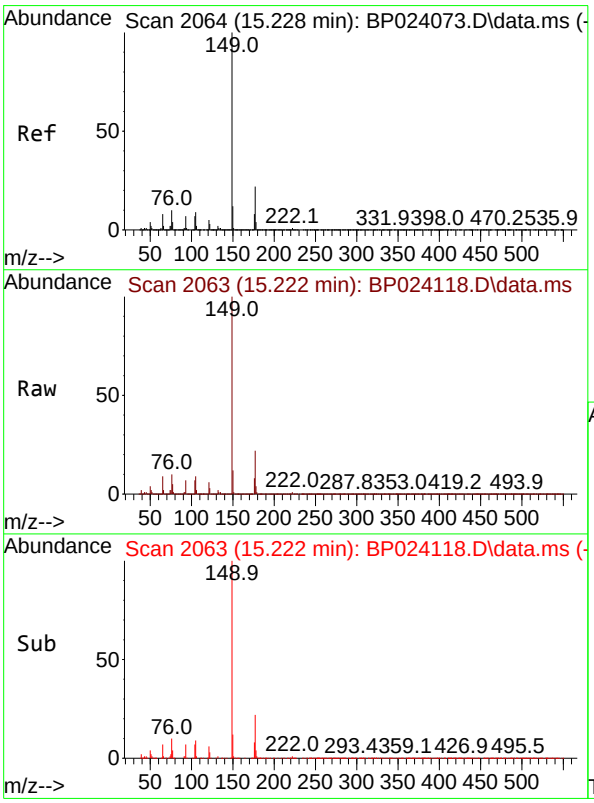
Ion	Ratio	Lower	Upper
232	100		
131	46.8	37.3	55.9
130	2.4	1.9	2.9
166	31.2	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

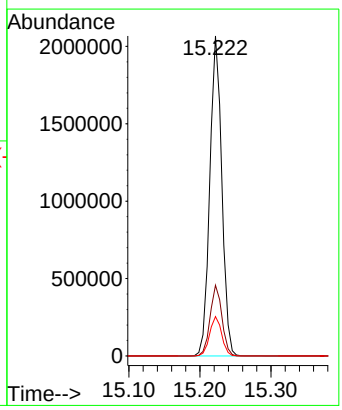
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

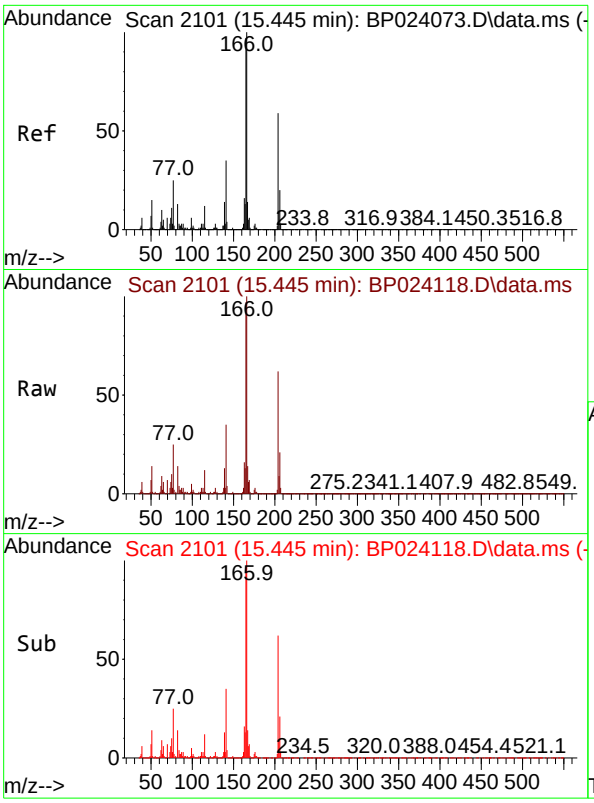


#60
Diethylphthalate
Concen: 41.875 ng
RT: 15.222 min Scan# 2063
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:149 Resp: 2425039

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.9	26.9
150	12.3	9.8	14.6

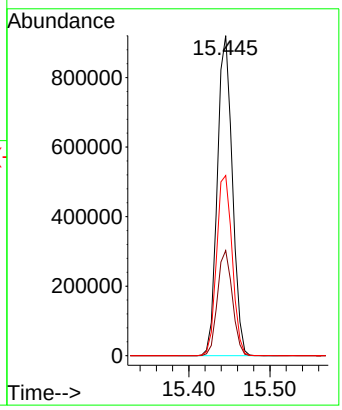




#61
4-Chlorophenyl-phenylether
Concen: 41.095 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:204 Resp: 118284

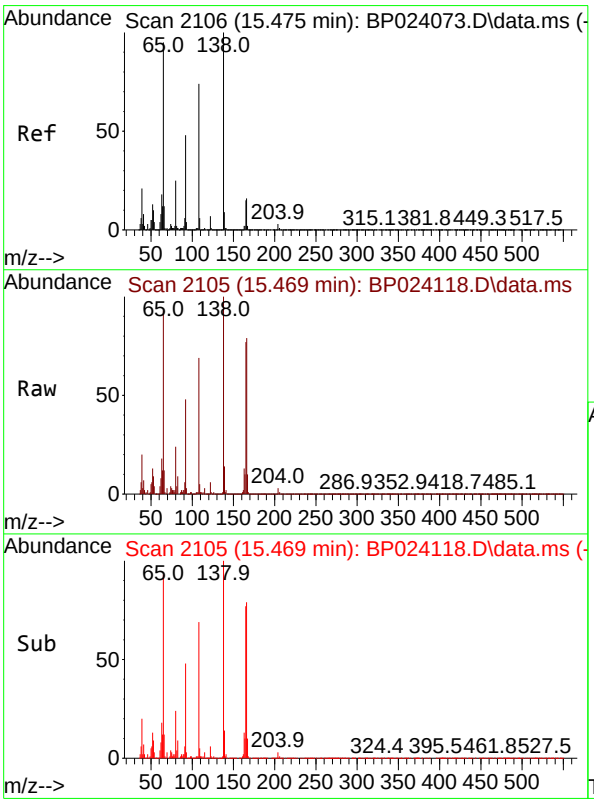
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.6	39.8
141	56.3	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

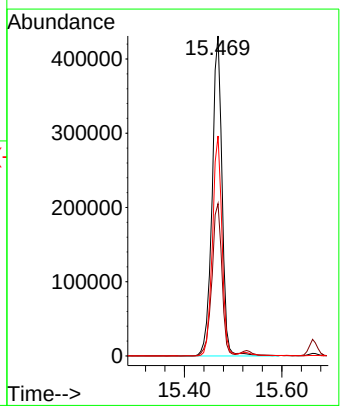
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

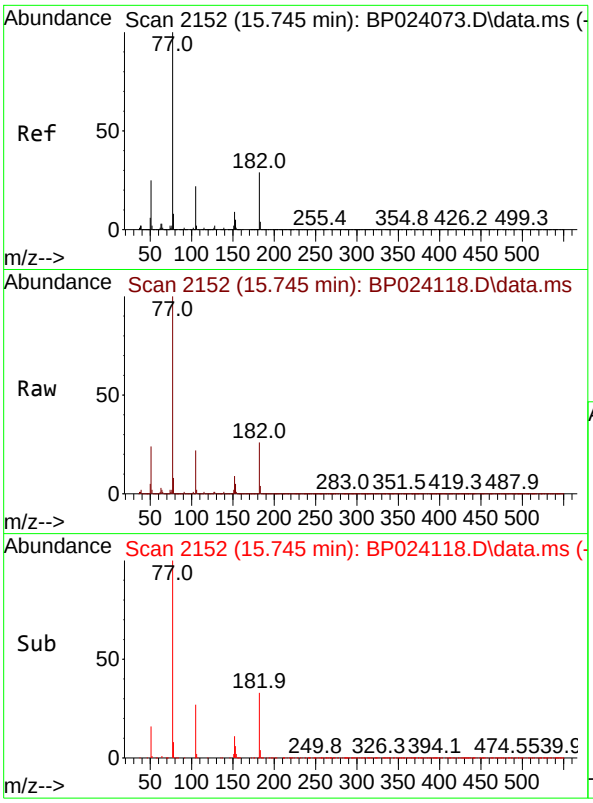


#62
4-Nitroaniline
Concen: 41.076 ng
RT: 15.469 min Scan# 2105
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:138 Resp: 609023

Ion	Ratio	Lower	Upper
138	100		
92	47.6	28.3	68.3
108	68.7	54.0	94.0

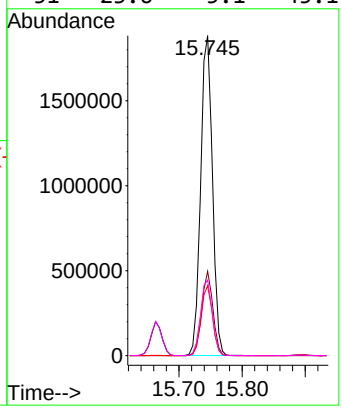




#63
Azobenzene
Concen: 44.785 ng
RT: 15.745 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion: 77 Resp: 243034

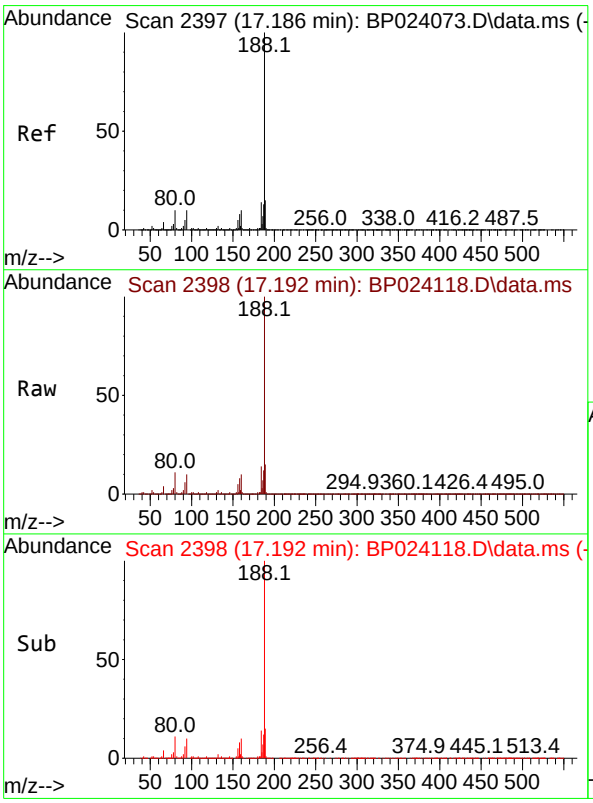
Ion	Ratio	Lower	Upper
77	100		
182	26.3	8.5	48.5
105	21.8	1.8	41.8
51	23.6	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

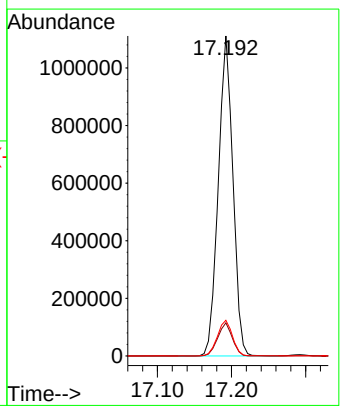
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

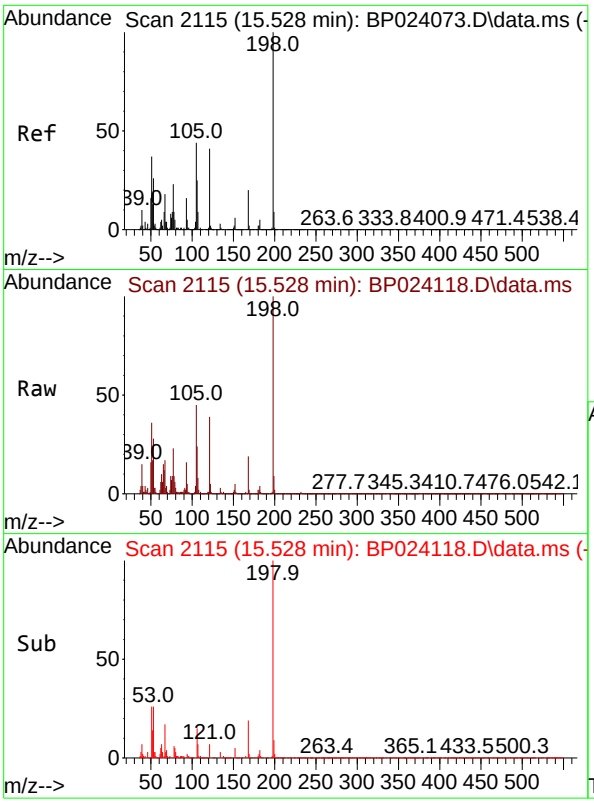


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.192 min Scan# 2398
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:188 Resp: 1522668

Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.6	11.4
80	11.1	8.2	12.2

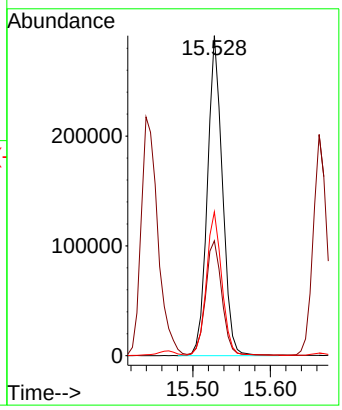




#65
4,6-Dinitro-2-methylphenol
Concen: 41.048 ng
RT: 15.528 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:198 Resp: 39175

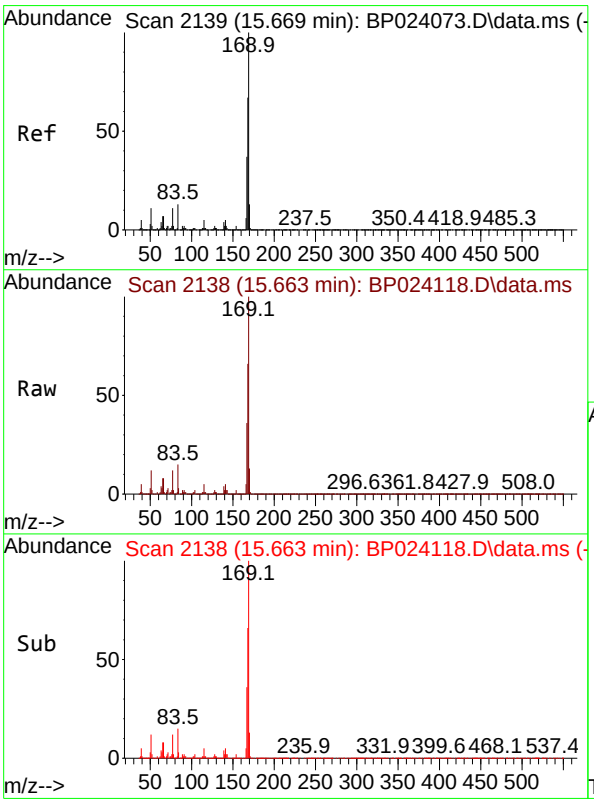
Ion	Ratio	Lower	Upper
198	100		
51	35.9	18.7	58.7
105	45.0	24.7	64.7



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

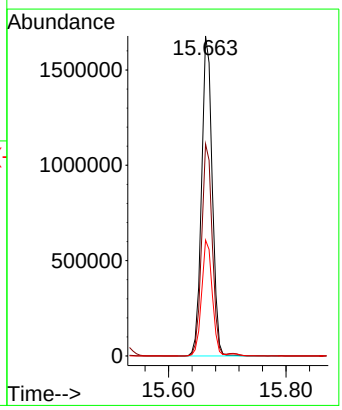
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

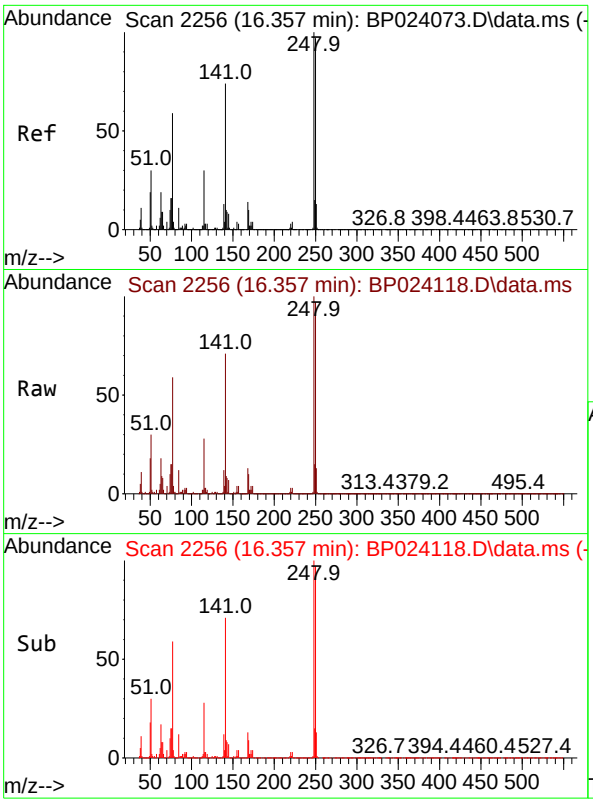


#66
n-Nitrosodiphenylamine
Concen: 44.256 ng
RT: 15.663 min Scan# 2138
Delta R.T. -0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:169 Resp: 2101469

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.6	80.4
167	36.2	29.5	44.3





#67
4-Bromophenyl-phenylether
Concen: 41.965 ng
RT: 16.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

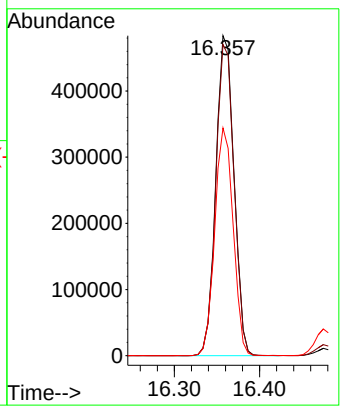
Tgt Ion:248 Resp: 71755

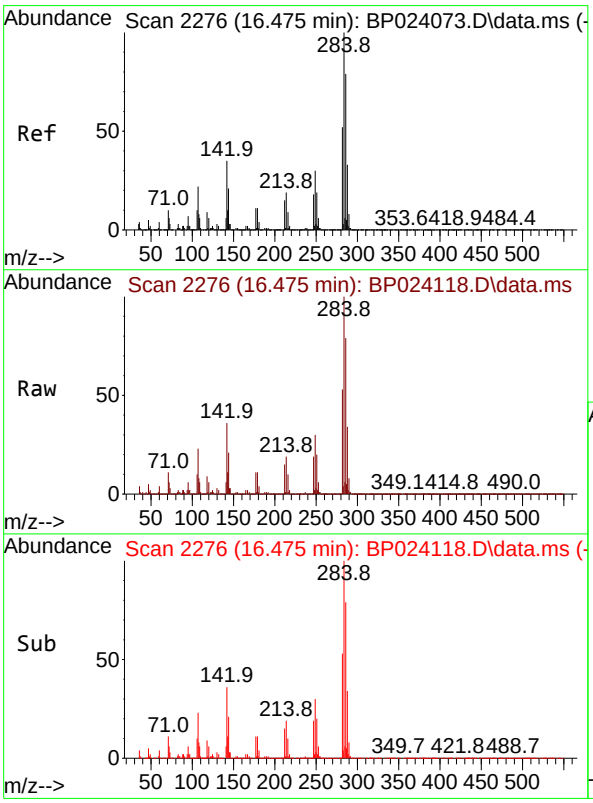
Ion	Ratio	Lower	Upper
248	100		
250	97.3	77.9	116.9
141	71.2	58.8	88.2

Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

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

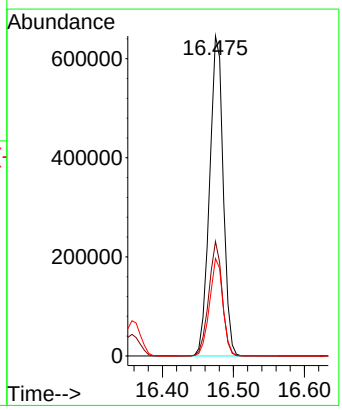


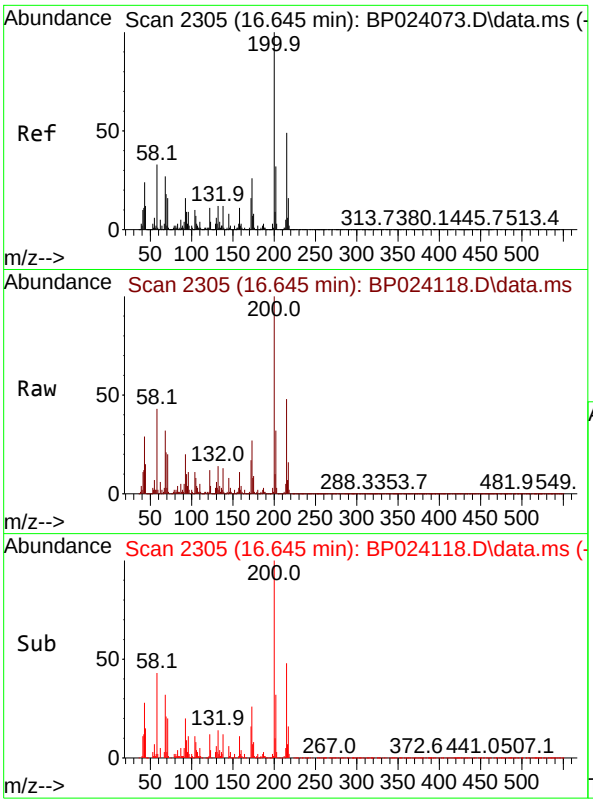


#68
Hexachlorobenzene
Concen: 42.933 ng
RT: 16.475 min Scan# 2276
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:284 Resp: 863800

Ion	Ratio	Lower	Upper
284	100		
142	35.8	27.7	41.5
249	30.5	23.8	35.6

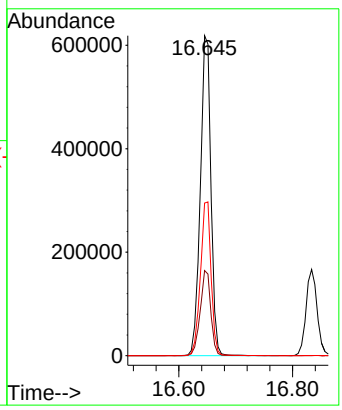




#69
Atrazine
Concen: 65.660 ng
RT: 16.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:200 Resp: 80011

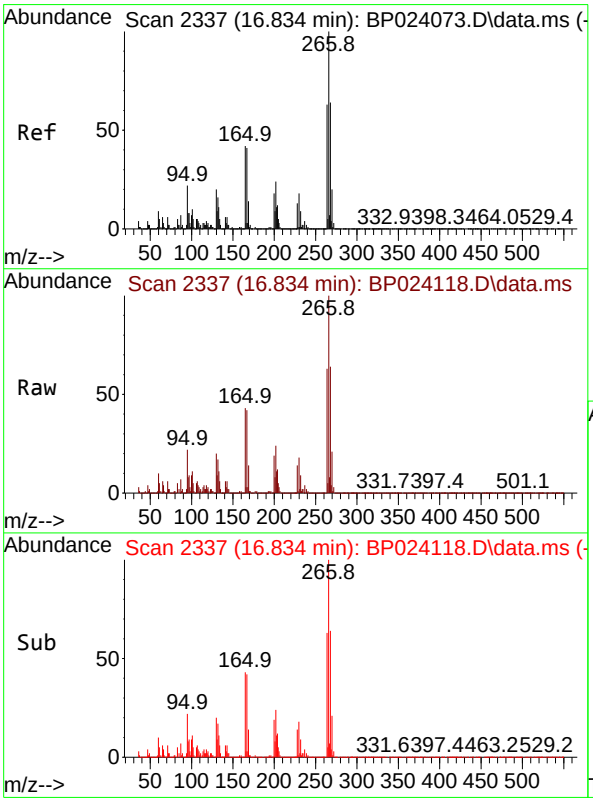
Ion	Ratio	Lower	Upper
200	100		
173	26.6	5.7	45.7
215	47.7	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

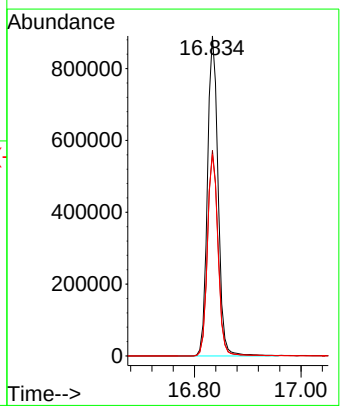
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

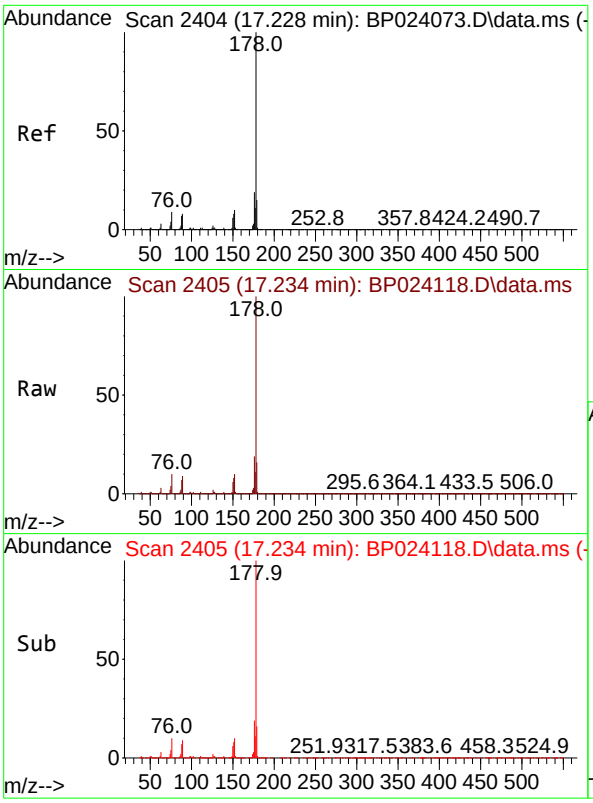


#70
Pentachlorophenol
Concen: 93.944 ng
RT: 16.834 min Scan# 2337
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:266 Resp: 1227623

Ion	Ratio	Lower	Upper
266	100		
268	64.2	51.3	76.9
264	63.0	50.5	75.7

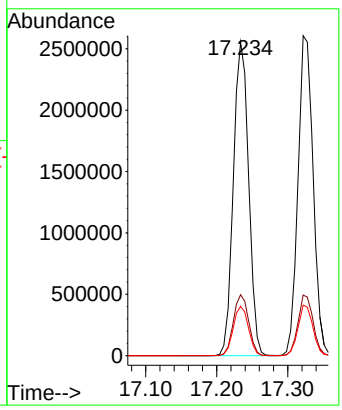




#71
Phenanthrene
Concen: 44.556 ng
RT: 17.234 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:178 Resp: 382496

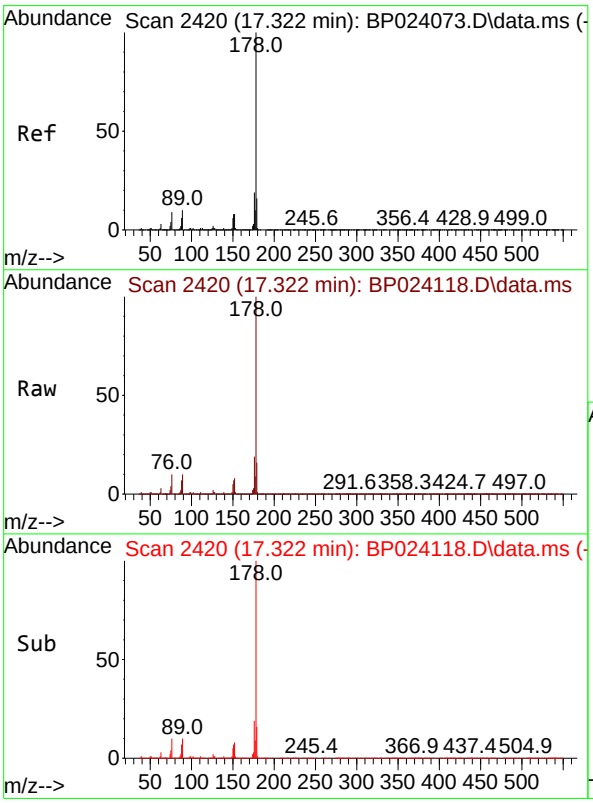
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.7	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

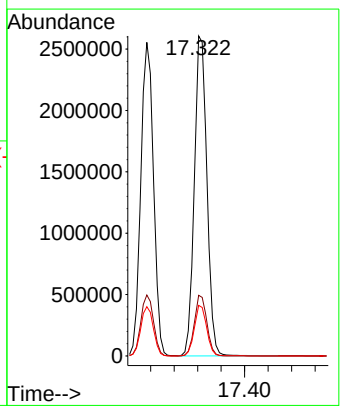
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

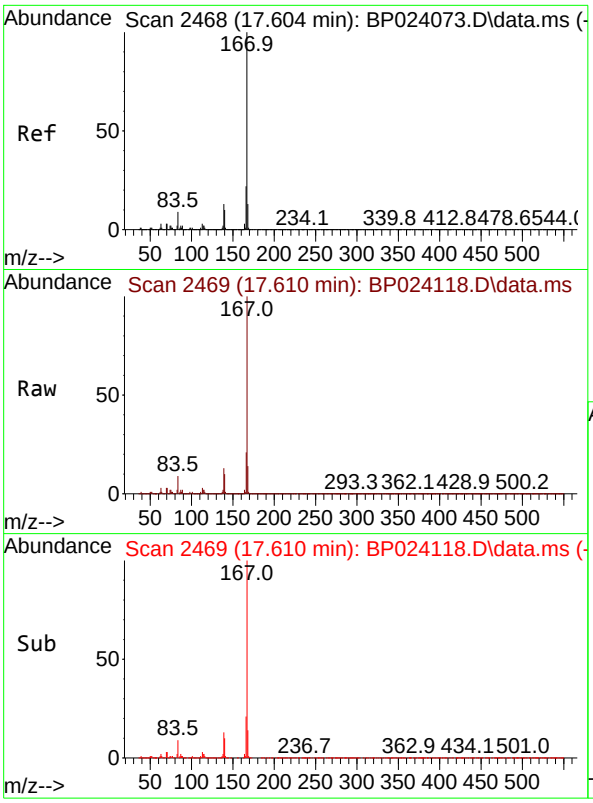


#72
Anthracene
Concen: 47.050 ng
RT: 17.322 min Scan# 2420
Delta R.T. -0.000 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:178 Resp: 3870642

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.8	12.6	19.0

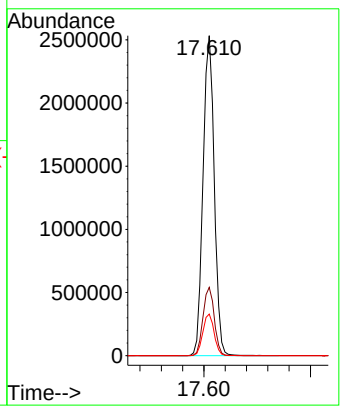




#73
Carbazole
Concen: 47.136 ng
RT: 17.610 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:167 Resp: 369461

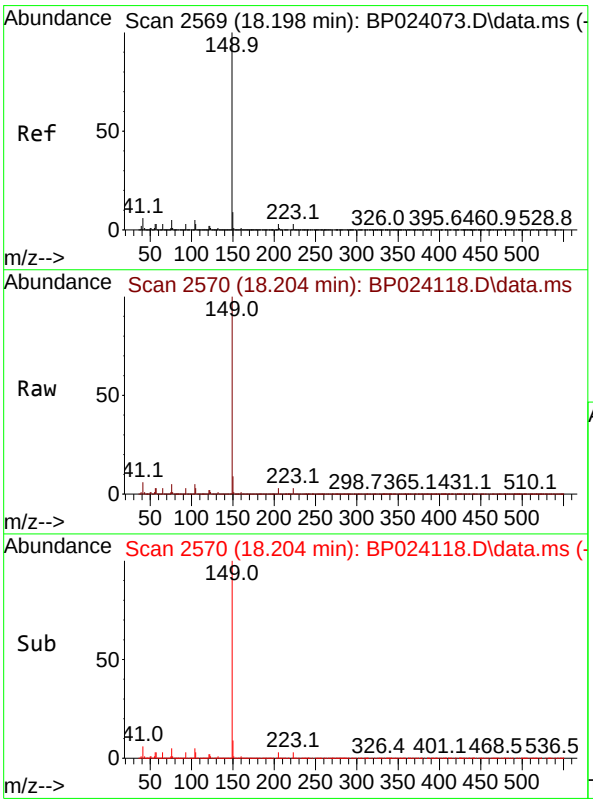
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.3	25.9
139	13.0	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

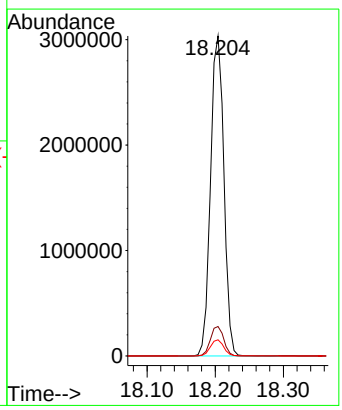
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

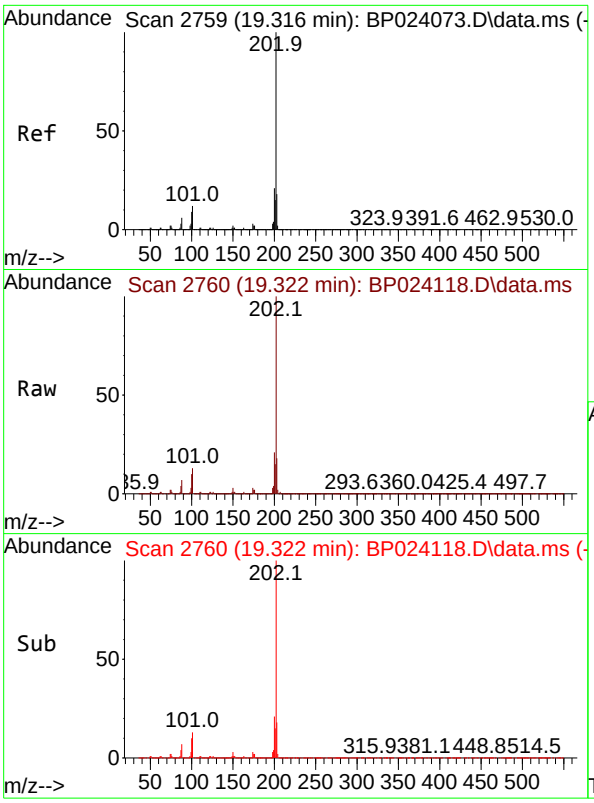


#74
Di-n-butylphthalate
Concen: 45.154 ng
RT: 18.204 min Scan# 2570
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:149 Resp: 4129690

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.0	4.2	6.2





#75
Fluoranthene
Concen: 45.536 ng
RT: 19.322 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

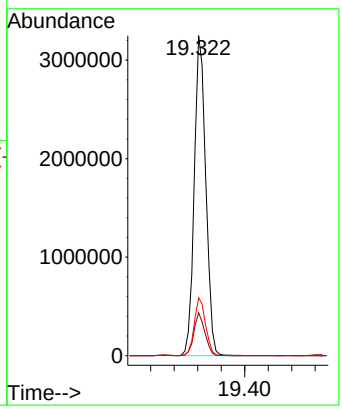
Tgt Ion:202 Resp: 442146

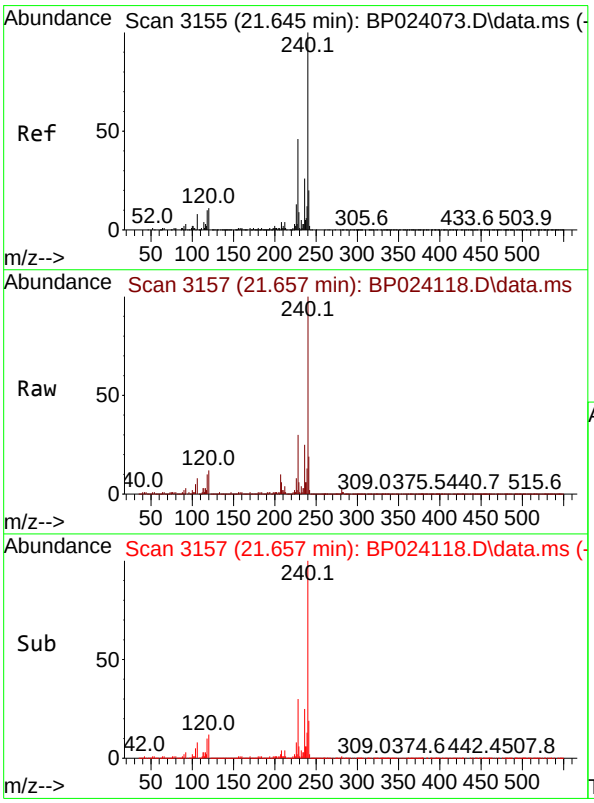
Ion	Ratio	Lower	Upper
202	100		
101	13.4	0.0	31.9
203	18.1	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

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

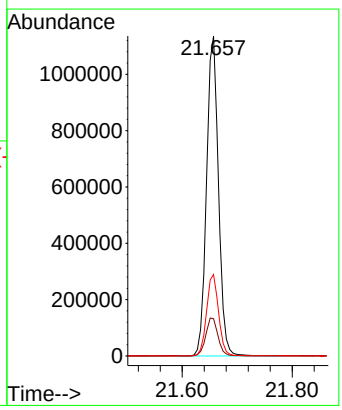


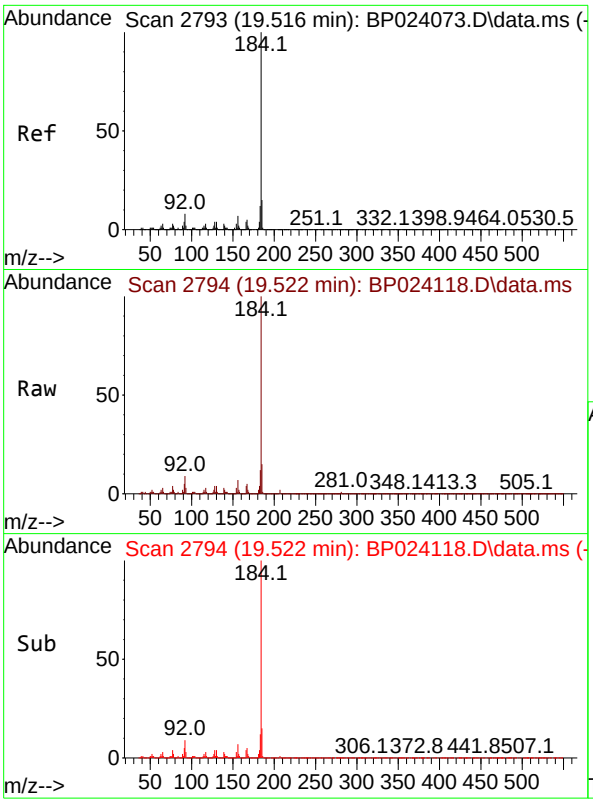


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.657 min Scan# 3157
Delta R.T. 0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:240 Resp: 1701635

Ion	Ratio	Lower	Upper
240	100		
120	11.7	8.9	13.3
236	25.4	20.7	31.1





#77
Benzidine
Concen: 81.399 ng
RT: 19.522 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

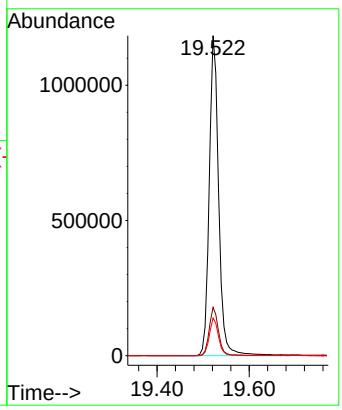
Instrument :
BNA_P
ClientSampleId :
PB166894BS

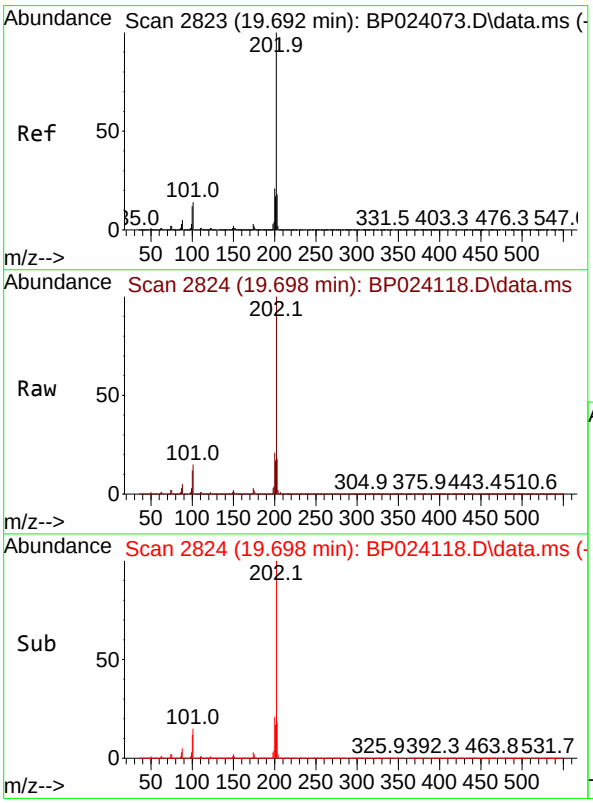
Tgt Ion:184 Resp: 168783

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.8	17.8
183	11.7	9.3	13.9

Manual Integrations
APPROVED

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

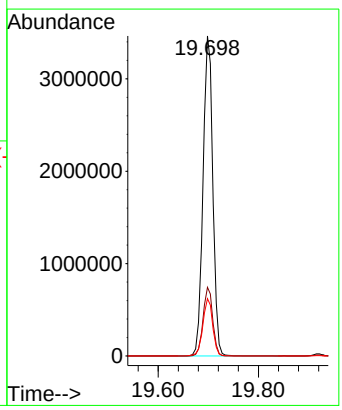


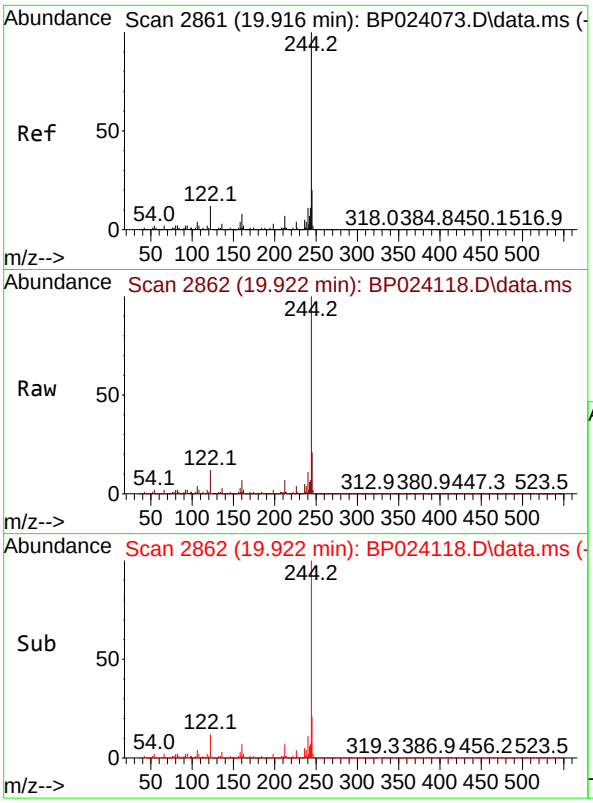


#78
Pyrene
Concen: 43.383 ng
RT: 19.698 min Scan# 2824
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:202 Resp: 4689110

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	17.9	14.4	21.6

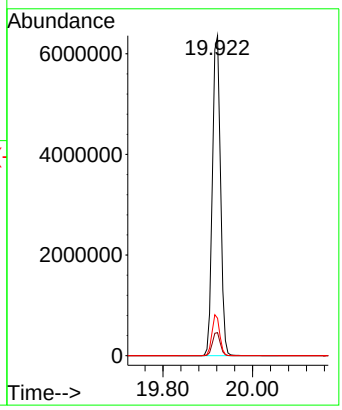




#79
Terphenyl-d14
Concen: 92.478 ng
RT: 19.922 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:244 Resp: 795269

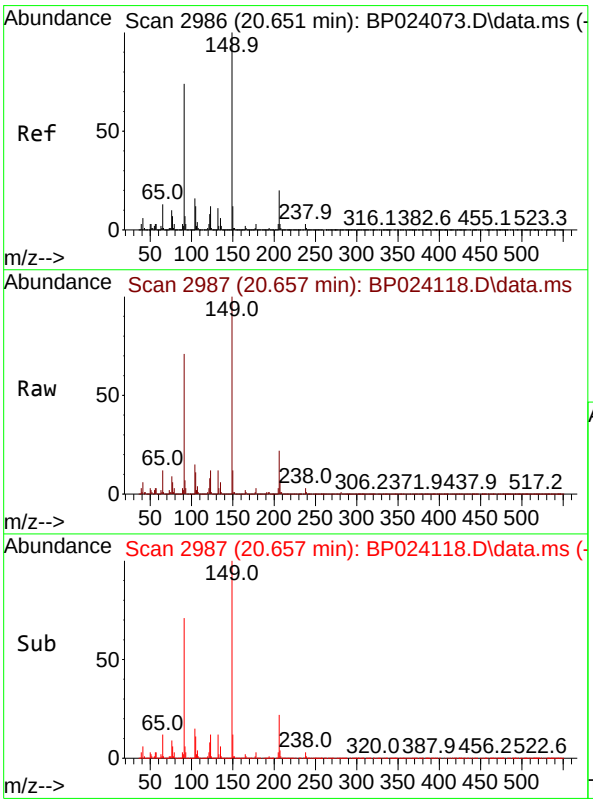
Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.9	8.9
122	11.7	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

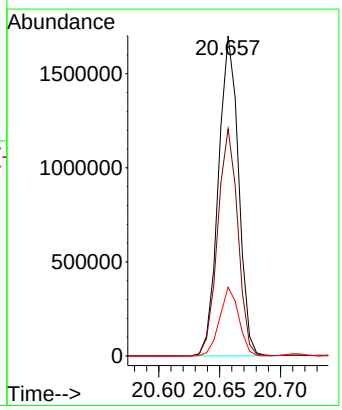
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

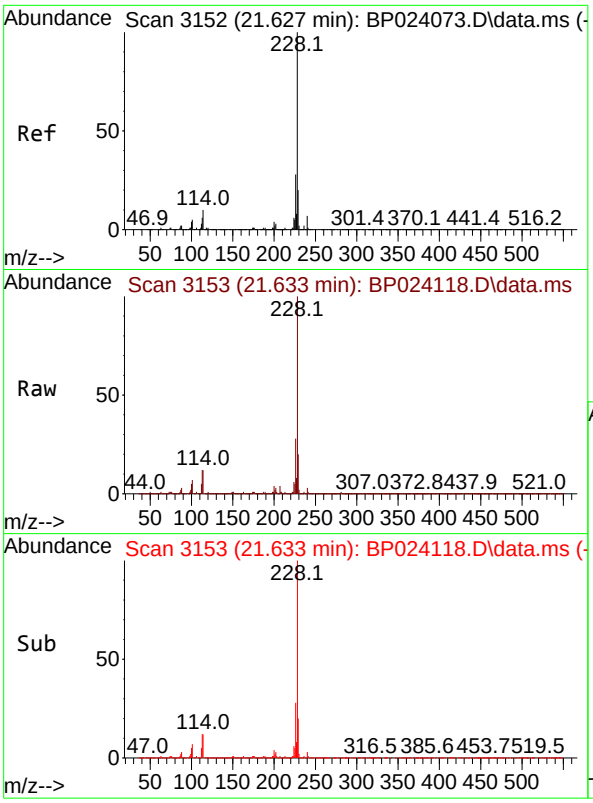


#80
Butylbenzylphthalate
Concen: 47.184 ng
RT: 20.657 min Scan# 2987
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:149 Resp: 1954264

Ion	Ratio	Lower	Upper
149	100		
91	71.0	59.4	89.0
206	21.5	16.2	24.2

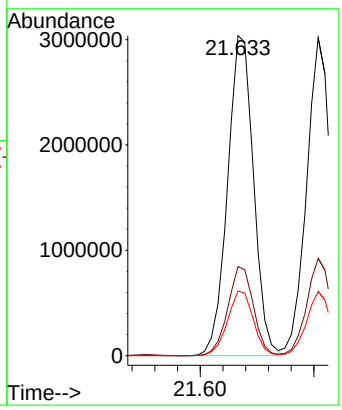




#81
Benzo(a)anthracene
Concen: 45.165 ng
RT: 21.633 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:228 Resp: 481910

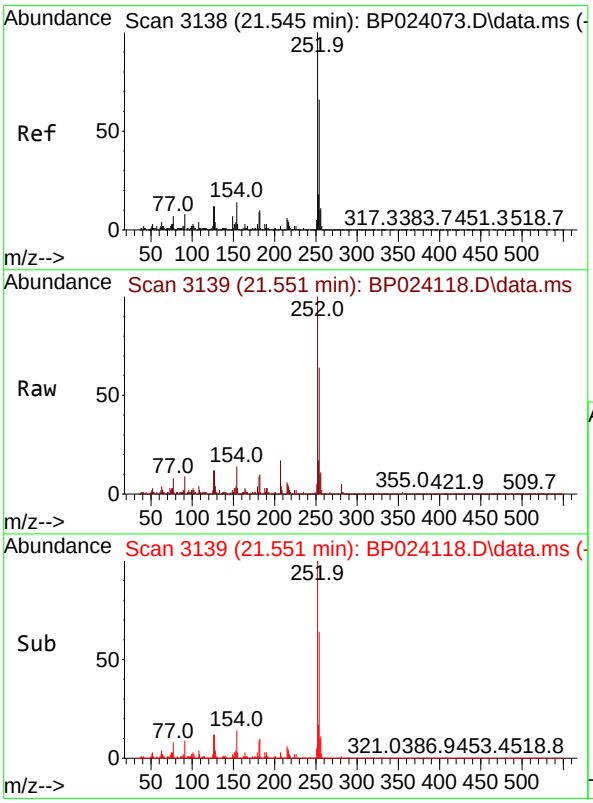
Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.4
229	20.2	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

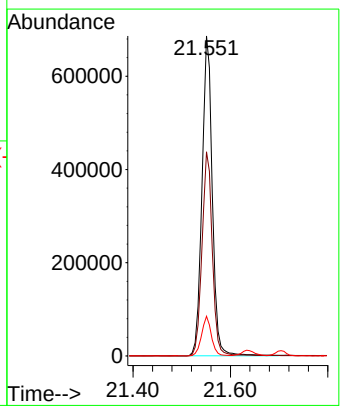
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

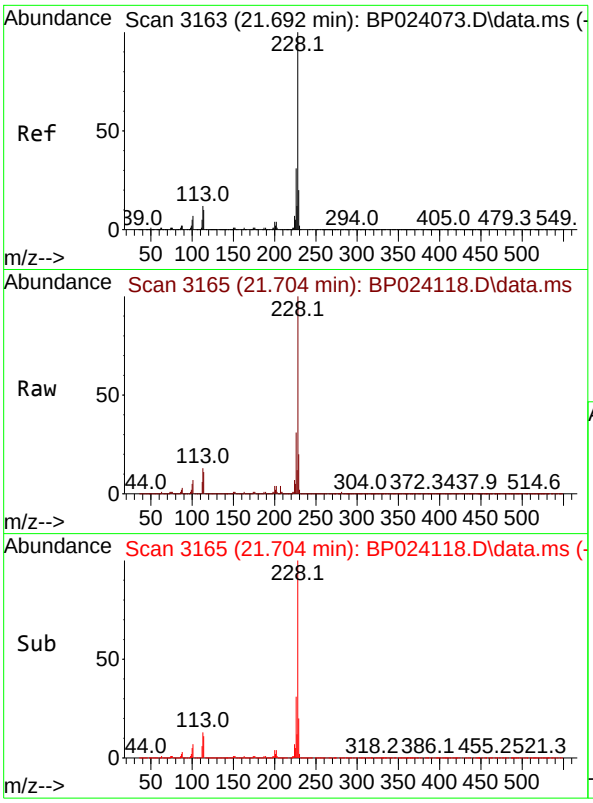


#82
3,3'-Dichlorobenzidine
Concen: 30.098 ng
RT: 21.551 min Scan# 3139
Delta R.T. 0.006 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:252 Resp: 1003532

Ion	Ratio	Lower	Upper
252	100		
254	63.8	52.4	78.6
126	12.4	9.6	14.4

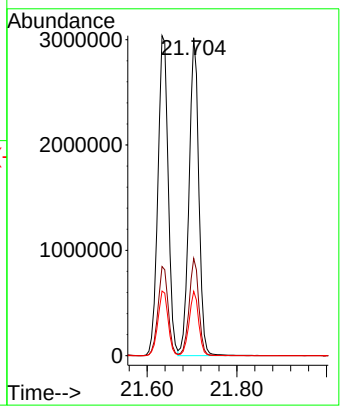




#83
Chrysene
Concen: 44.073 ng
RT: 21.704 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:228 Resp: 453466

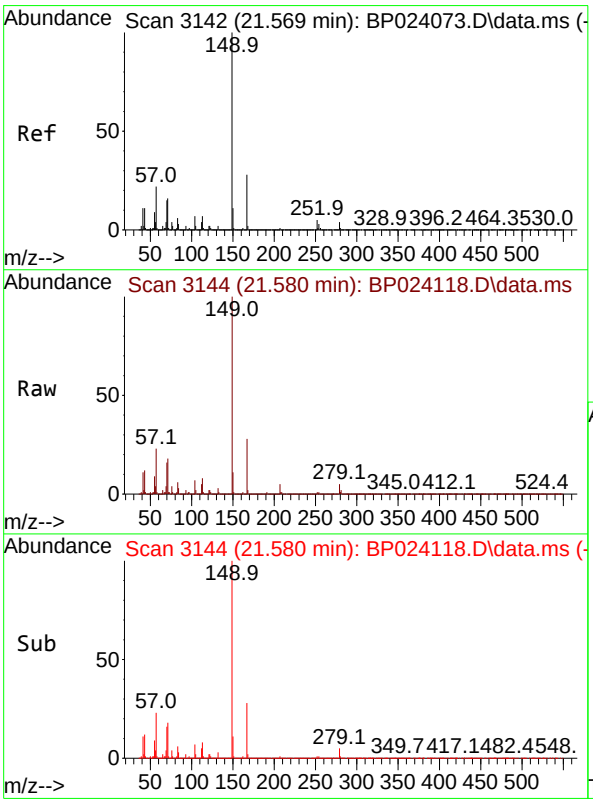
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.3	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

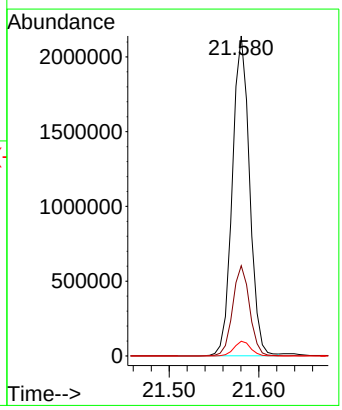
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

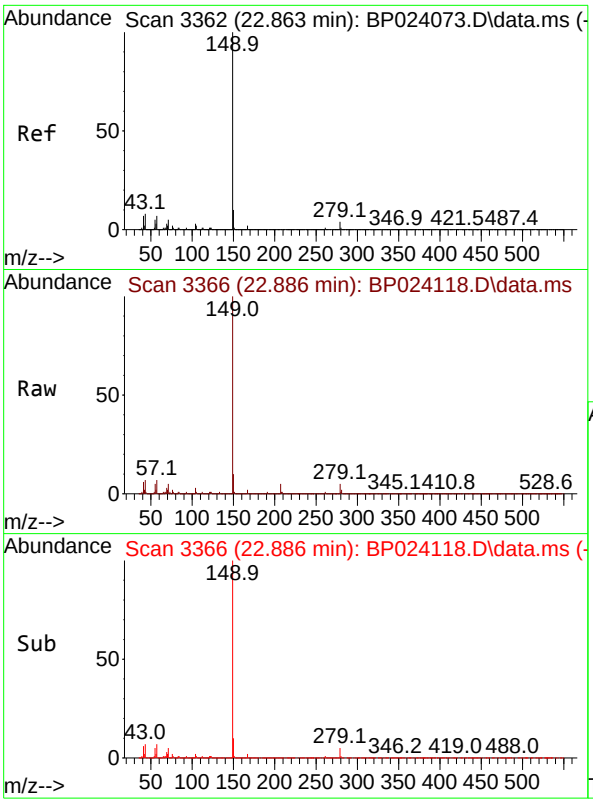


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.488 ng
RT: 21.580 min Scan# 3144
Delta R.T. 0.012 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:149 Resp: 2856995

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.2	33.2
279	4.6	3.6	5.4

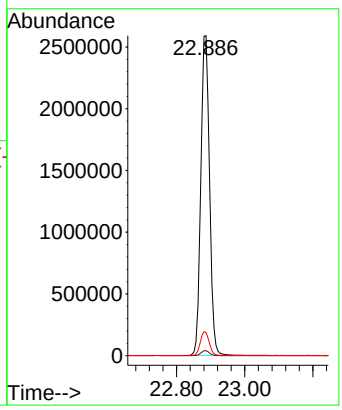




#85
Di-n-octyl phthalate
Concen: 46.026 ng
RT: 22.886 min Scan# 3
Delta R.T. 0.023 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:149 Resp: 462074

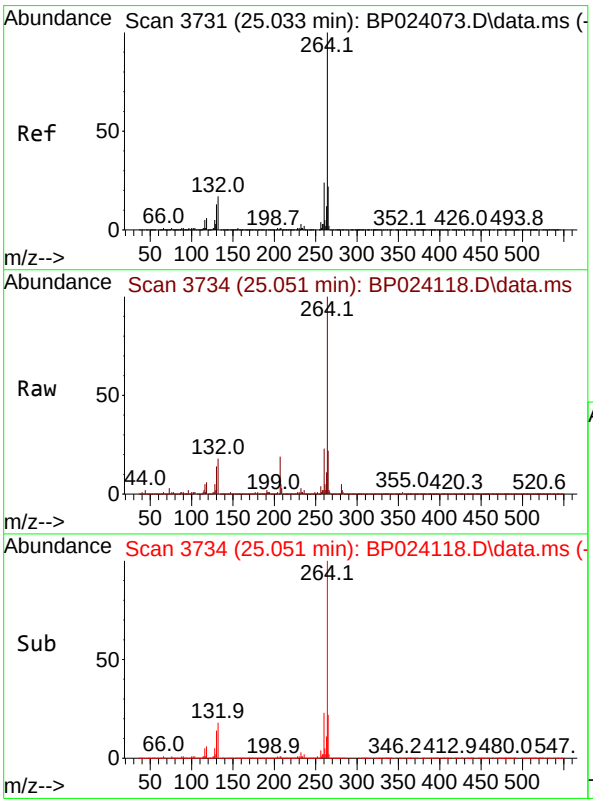
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	7.7	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

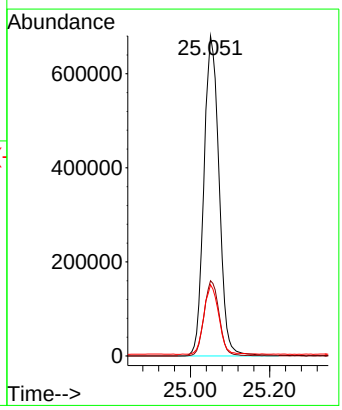
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

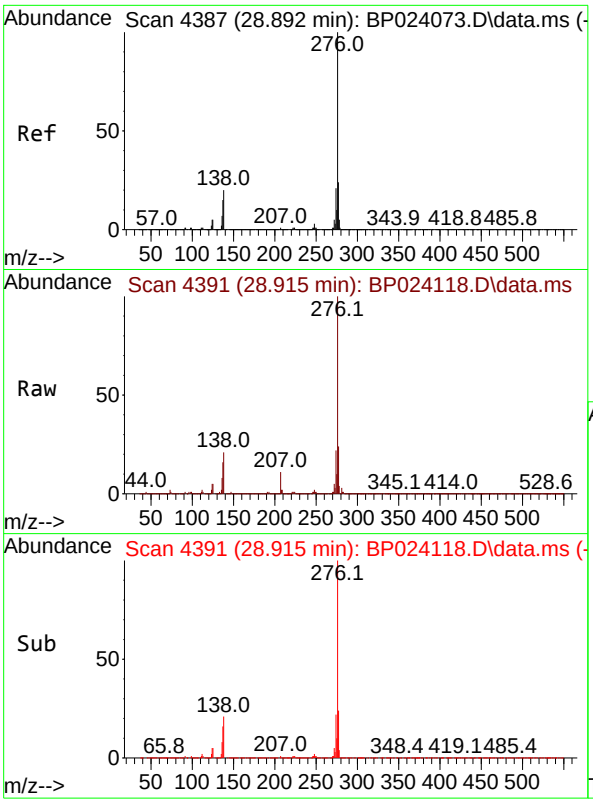


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.051 min Scan# 3734
Delta R.T. 0.018 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:264 Resp: 1810661

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.0	28.6
265	22.2	17.8	26.8

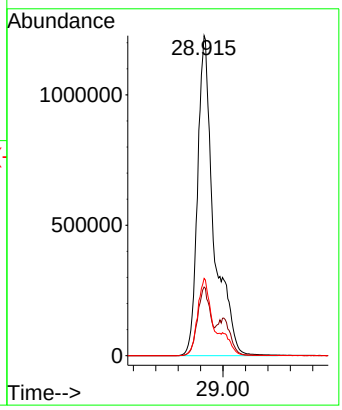




#87
Indeno(1,2,3-cd)pyrene
Concen: 47.810 ng m
RT: 28.915 min Scan# 4
Delta R.T. 0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:276 Resp: 615846

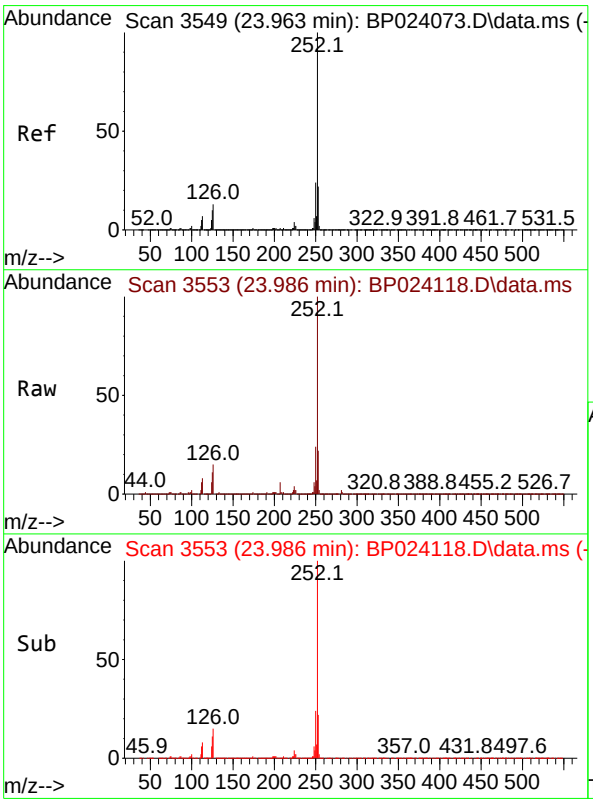
Ion	Ratio	Lower	Upper
276	100		
138	17.2	14.2	21.4
277	20.3	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations
APPROVED

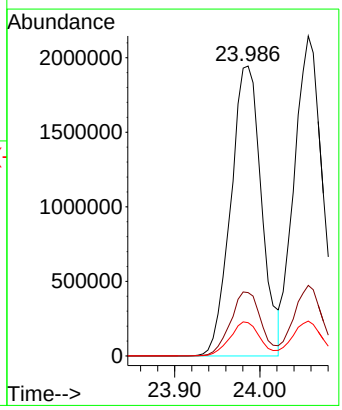
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

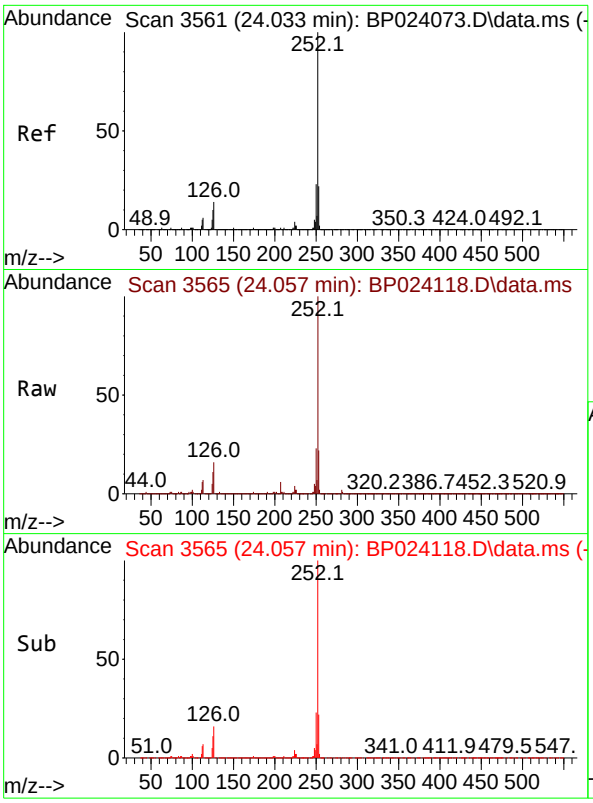


#88
Benzo(b)fluoranthene
Concen: 42.382 ng
RT: 23.986 min Scan# 3553
Delta R.T. 0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:252 Resp: 4873204

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	11.5	8.4	12.6

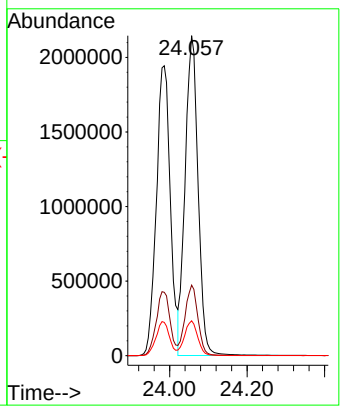




#89
Benzo(k)fluoranthene
Concen: 44.377 ng
RT: 24.057 min Scan# 3
Delta R.T. 0.023 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:252 Resp: 496665

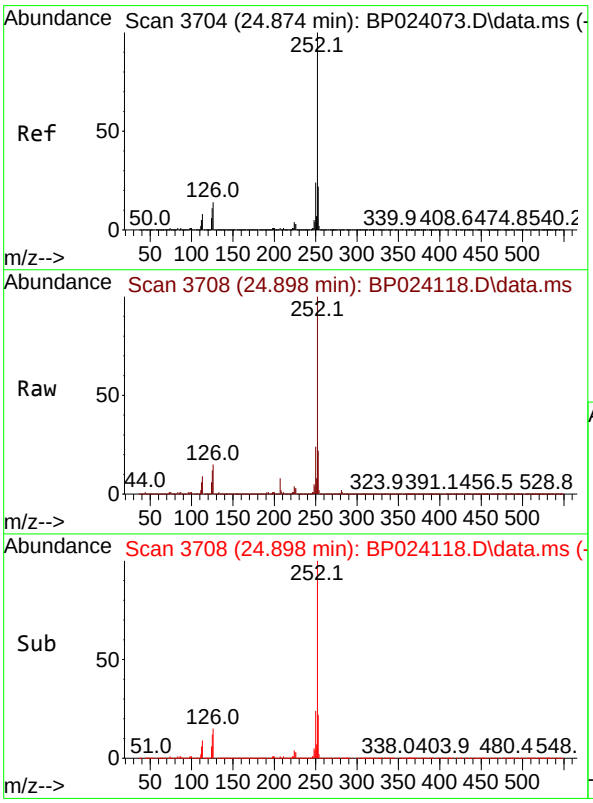
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.9	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

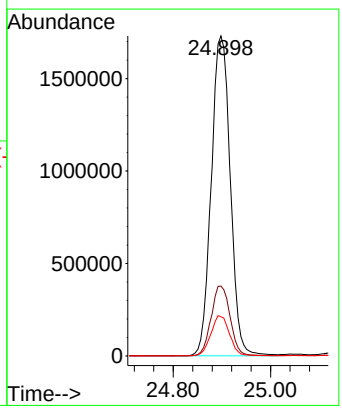
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

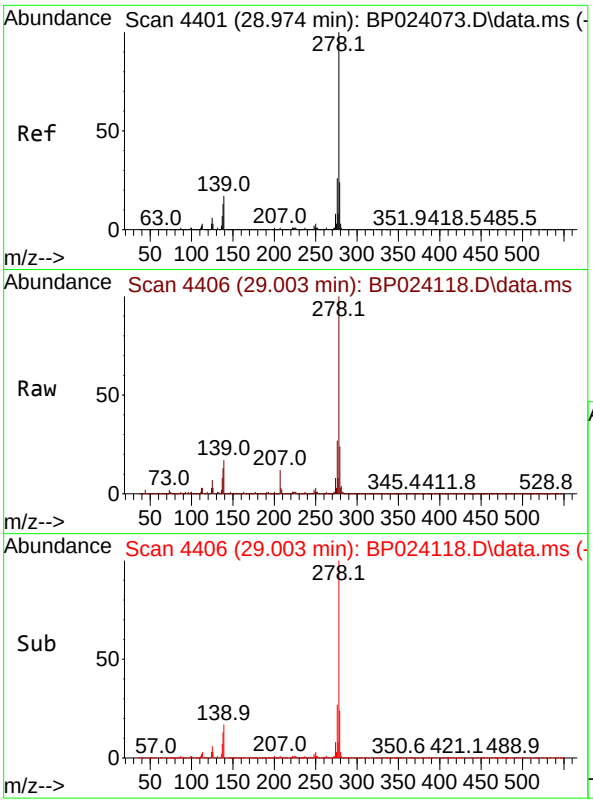


#90
Benzo(a)pyrene
Concen: 48.030 ng
RT: 24.898 min Scan# 3708
Delta R.T. 0.024 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:252 Resp: 4686771

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	12.3	8.8	13.2

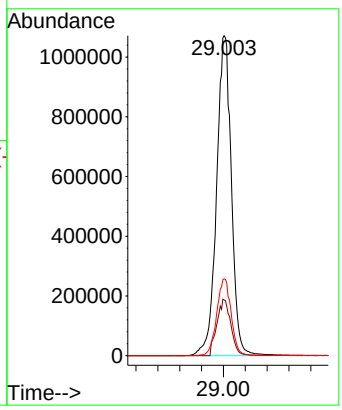




#91
Dibenzo(a,h)anthracene
Concen: 46.410 ng
RT: 29.003 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:278 Resp: 502661

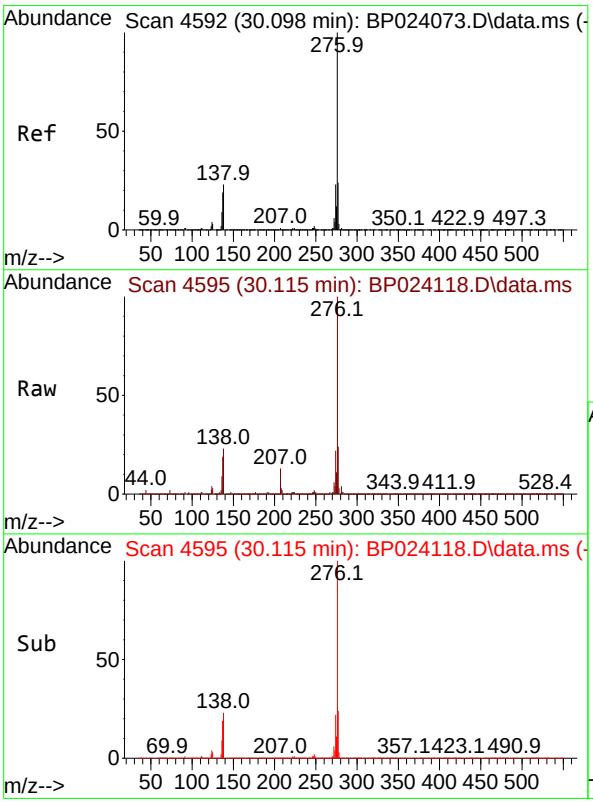
Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.4	20.0
279	24.0	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
PB166894BS

Manual Integrations APPROVED

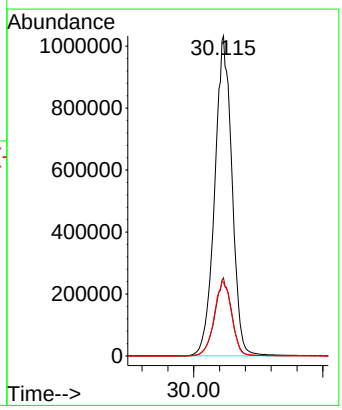
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 43.492 ng
RT: 30.115 min Scan# 4595
Delta R.T. 0.018 min
Lab File: BP024118.D
Acq: 27 Feb 2025 13:00

Tgt Ion:276 Resp: 4779983

Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.9	28.3
138	22.9	18.1	27.1



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-05MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024121.D	1	02/26/25 11:20	02/27/25 15:08	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	30.5		4.00	10.0	ug/L
108-95-2	Phenol	13.0		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	42.8		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	34.7		0.71	5.00	ug/L
95-48-7	2-Methylphenol	32.2		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	43.8		1.40	5.00	ug/L
98-86-2	Acetophenone	48.5		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	28.0		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	46.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	27.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	43.5		1.30	5.00	ug/L
78-59-1	Isophorone	50.2		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	45.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	53.8		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.7		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	42.4		0.88	5.00	ug/L
91-20-3	Naphthalene	37.0		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	37.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	29.7		1.30	5.00	ug/L
105-60-2	Caprolactam	12.7		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	40.3		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	38.6		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.3		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.5		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.5		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	50.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	57.3		0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-05MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024121.D	1	02/26/25 11:20	02/27/25 15:08	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	47.9		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	48.4		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	22.9		1.40	5.00	ug/L
83-32-9	Acenaphthene	44.7		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	59.6		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	35.3		2.00	10.0	ug/L
132-64-9	Dibenzofuran	43.0		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.4		1.50	5.00	ug/L
84-66-2	Diethylphthalate	45.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	44.1		0.98	5.00	ug/L
86-73-7	Fluorene	45.3		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	35.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	35.8		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	46.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	44.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	44.6		1.10	5.00	ug/L
1912-24-9	Atrazine	69.2		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	99.1	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	45.6		0.89	5.00	ug/L
120-12-7	Anthracene	48.4		1.10	5.00	ug/L
86-74-8	Carbazole	48.7		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	50.3		1.50	5.00	ug/L
206-44-0	Fluoranthene	46.8		1.30	5.00	ug/L
129-00-0	Pyrene	48.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	55.0		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	55.1		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.3		0.94	5.00	ug/L
218-01-9	Chrysene	47.0		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	51.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	52.9		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	44.2		1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MS	SDG No.:	Q1421
Lab Sample ID:	Q1421-05MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024121.D	1	02/26/25 11:20	02/27/25 15:08	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	45.7		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.4		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.9		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.6		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.0		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.9		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	20.9		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	68.4		10 - 139	46%	SPK: 150
13127-88-3	Phenol-d6	40.4		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		49 - 133	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	95.6		52 - 132	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	160		44 - 137	107%	SPK: 150
1718-51-0	Terphenyl-d14	102		48 - 125	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	427000	7.758			
1146-65-2	Naphthalene-d8	1620000	10.534			
15067-26-2	Acenaphthene-d10	913000	14.393			
1517-22-2	Phenanthrene-d10	1720000	17.181			
1719-03-5	Chrysene-d12	1740000	21.639			
1520-96-3	Perylene-d12	1920000	25.027			

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_P\Data\BP022725\
Data File : BP024121.D
Acq On : 27 Feb 2025 15:08
Operator : RC/JU
Sample : Q1421-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 15:34:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

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	7.758	152	426681	20.000	ng		0.00
21) Naphthalene-d8	10.534	136	1618071	20.000	ng		0.00
39) Acenaphthene-d10	14.393	164	912646	20.000	ng		0.00
64) Phenanthrene-d10	17.181	188	1719496	20.000	ng		0.00
76) Chrysene-d12	21.639	240	1738985	20.000	ng		0.00
86) Perylene-d12	25.027	264	1915613	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1869119	68.353	ng		0.00
7) Phenol-d6	6.940	99	1420482	40.417	ng		0.00
23) Nitrobenzene-d5	8.905	82	2982699	102.839	ng		0.00
42) 2,4,6-Tribromophenol	15.898	330	1787793	159.926	ng		0.00
45) 2-Fluorobiphenyl	12.998	172	6244016	95.646	ng		0.00
79) Terphenyl-d14	19.904	244	8934410	101.662	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.311	88	223967	20.879	ng		97
3) Pyridine	3.705	79	491037	17.607	ng		98
4) n-Nitrosodimethylamine	3.611	42	185712	18.773	ng	#	99
6) Aniline	7.087	93	1074893	33.396	ng		100
8) 2-Chlorophenol	7.328	128	1004552	34.708	ng		97
9) Benzaldehyde	6.905	77	489574	30.511	ng		99
10) Phenol	6.963	94	460147	13.020	ng		99
11) bis(2-Chloroethyl)ether	7.181	93	1191961	42.821	ng		99
12) 1,3-Dichlorobenzene	7.646	146	935910	29.435	ng		99
13) 1,4-Dichlorobenzene	7.793	146	965137	30.015	ng		100
14) 1,2-Dichlorobenzene	8.105	146	952510	30.866	ng		100
15) Benzyl Alcohol	7.993	79	690883	32.114	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.269	45	1184353m	43.830	ng		
17) 2-Methylphenol	8.199	107	694362	32.241	ng		99
18) Hexachloroethane	8.828	117	322379	27.838	ng		98
19) n-Nitroso-di-n-propyla...	8.558	70	879275	46.530	ng		99
20) 3+4-Methylphenols	8.522	107	819458	27.969	ng		99
22) Acetophenone	8.569	105	2016660	48.501	ng	#	99
24) Nitrobenzene	8.946	77	1242598	43.533	ng		98
25) Isophorone	9.469	82	2379783	50.176	ng		98
26) 2-Nitrophenol	9.652	139	592497	45.055	ng		99
27) 2,4-Dimethylphenol	9.716	122	929003	53.817	ng		99
28) bis(2-Chloroethoxy)met...	9.946	93	1536438	44.717	ng		100
29) 2,4-Dichlorophenol	10.187	162	998287	42.376	ng		99
30) 1,2,4-Trichlorobenzene	10.399	180	908773	33.669	ng		98
31) Naphthalene	10.581	128	3222110	37.034	ng		99
32) Benzoic acid	9.799	122	97401	12.027	ng		98
33) 4-Chloroaniline	10.693	127	1158590	37.800	ng		99
34) Hexachlorobutadiene	10.869	225	464071	29.684	ng		99
35) Caprolactam	11.493	113	64266	12.733	ng		92
36) 4-Chloro-3-methylphenol	11.822	107	975221	40.269	ng		98
37) 2-Methylnaphthalene	12.198	142	2231076	38.582	ng		99
38) 1-Methylnaphthalene	12.410	142	2206115	39.216	ng		99
40) 1,2,4,5-Tetrachloroben...	12.563	216	1258547	44.882	ng		99
41) Hexachlorocyclopentadiene	12.551	237	1283263	122.982	ng		99
43) 2,4,6-Trichlorophenol	12.810	196	808337	47.268	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024121.D
Acq On : 27 Feb 2025 15:08
Operator : RC/JU
Sample : Q1421-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 27 15:34:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

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	12.887	196	875339	46.803	ng		98
46) 1,1'-Biphenyl	13.210	154	3368853	47.503	ng		100
47) 2-Chloronaphthalene	13.251	162	2276662	42.467	ng		99
48) 2-Nitroaniline	13.457	65	642995	50.774	ng		97
49) Acenaphthylene	14.110	152	3786403	47.938	ng		99
50) Dimethylphthalate	13.845	163	3686389	57.263	ng		100
51) 2,6-Dinitrotoluene	13.957	165	635338	48.448	ng		99
52) Acenaphthene	14.451	154	2274749	44.722	ng		99
53) 3-Nitroaniline	14.287	138	320040	22.871	ng		93
54) 2,4-Dinitrophenol	14.498	184	496449	59.617	ng		95
55) Dibenzofuran	14.792	168	3556573	43.043	ng		99
56) 4-Nitrophenol	14.616	139	426395	35.275	ng		97
57) 2,4-Dinitrotoluene	14.751	165	892873	52.413	ng		95
58) Fluorene	15.451	166	2924644	45.322	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.028	232	761176	46.909	ng		99
60) Diethylphthalate	15.228	149	2935352	45.932	ng		100
61) 4-Chlorophenyl-phenyle...	15.445	204	1399679	44.066	ng		99
62) 4-Nitroaniline	15.475	138	565516	35.085	ng		96
63) Azobenzene	15.745	77	2846663	47.536	ng		97
65) 4,6-Dinitro-2-methylph...	15.534	198	376344	35.816	ng		99
66) n-Nitrosodiphenylamine	15.663	169	2499612	46.615	ng		99
67) 4-Bromophenyl-phenylether	16.357	248	858199	44.445	ng		98
68) Hexachlorobenzene	16.475	284	1012929	44.582	ng		100
69) Atrazine	16.639	200	952318	69.204	ng		98
70) Pentachlorophenol	16.828	266	1461912	99.067	ng		99
71) Phenanthrene	17.228	178	4418199	45.575	ng		100
72) Anthracene	17.322	178	4495423	48.390	ng		100
73) Carbazole	17.598	167	4309504	48.688	ng		100
74) Di-n-butylphthalate	18.192	149	5193252	50.283	ng		100
75) Fluoranthene	19.310	202	5134314	46.824	ng		98
77) Benzidine	19.504	184	1704366	80.431	ng		100
78) Pyrene	19.686	202	5353144	48.463	ng		100
80) Butylbenzylphthalate	20.645	149	2327290	54.983	ng		95
81) Benzo(a)anthracene	21.616	228	5271907	48.347	ng		100
82) 3,3'-Dichlorobenzidine	21.539	252	1877345	55.096	ng		99
83) Chrysene	21.686	228	4945554	47.034	ng		99
84) Bis(2-ethylhexyl)phtha...	21.557	149	3318151	51.695	ng		100
85) Di-n-octyl phthalate	22.857	149	5427250	52.899	ng		99
87) Indeno(1,2,3-cd)pyrene	28.880	276	6800555	49.902	ng	#	93
88) Benzo(b)fluoranthene	23.957	252	5378136	44.211	ng		99
89) Benzo(k)fluoranthene	24.033	252	5405182	45.650	ng		99
90) Benzo(a)pyrene	24.868	252	5099207	49.393	ng		99
91) Dibenzo(a,h)anthracene	28.956	278	5563977	48.557	ng		99
92) Benzo(g,h,i)perylene	30.080	276	5354431	46.049	ng		100

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

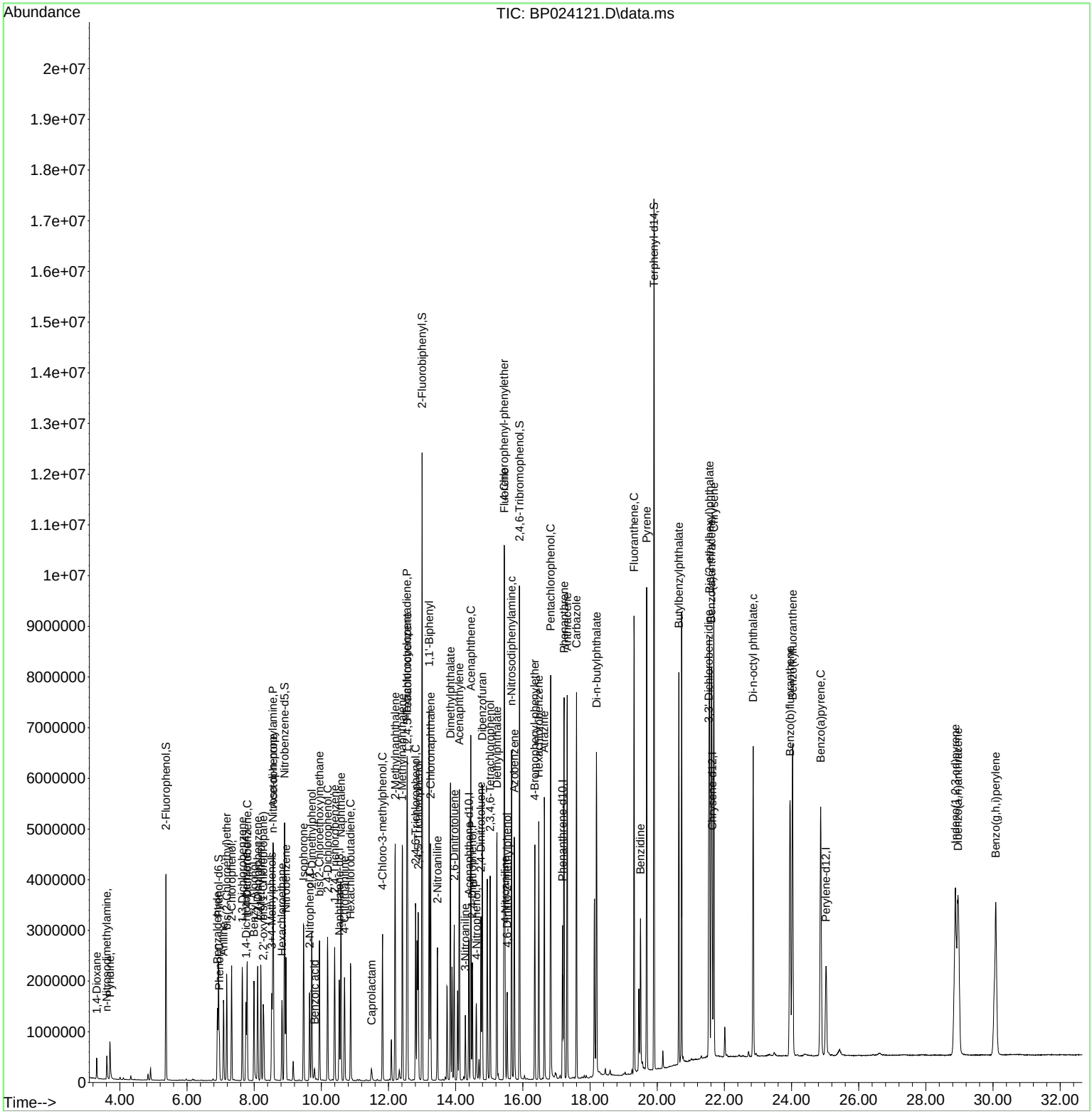
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024121.D
Acq On : 27 Feb 2025 15:08
Operator : RC/JU
Sample : Q1421-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

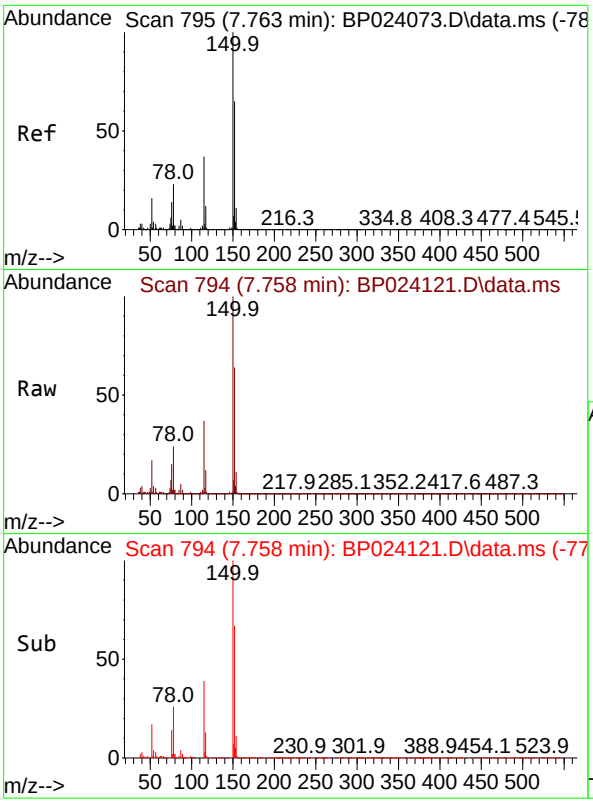
Quant Time: Feb 27 15:34:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

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

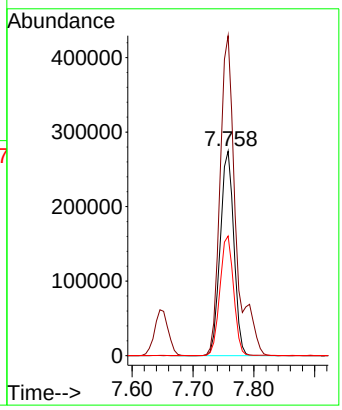




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.758 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

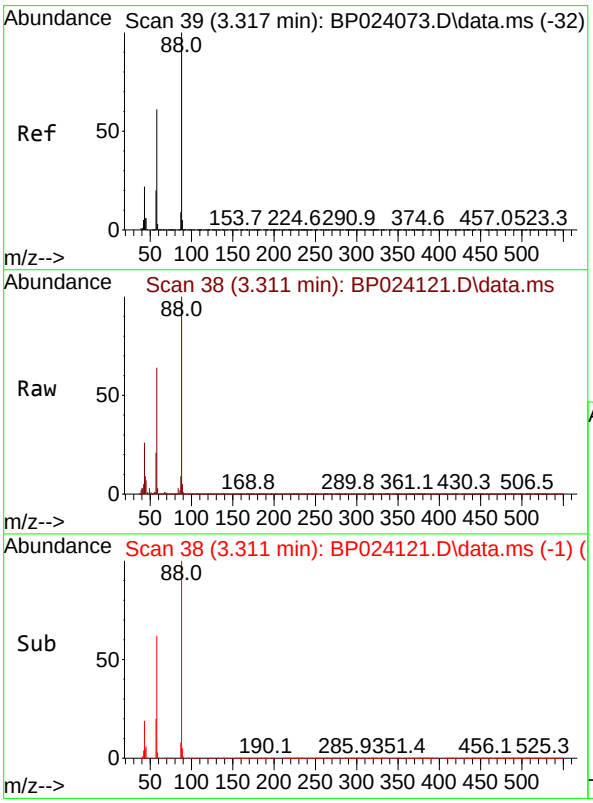
Tgt Ion:152 Resp: 42668

Ion	Ratio	Lower	Upper
152	100		
150	156.5	122.4	183.6
115	58.5	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

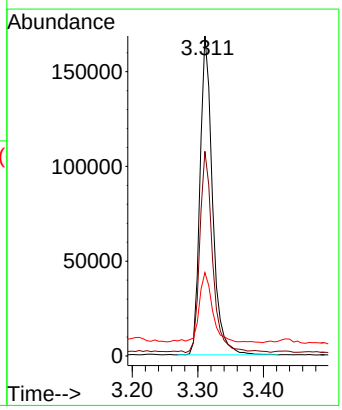
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

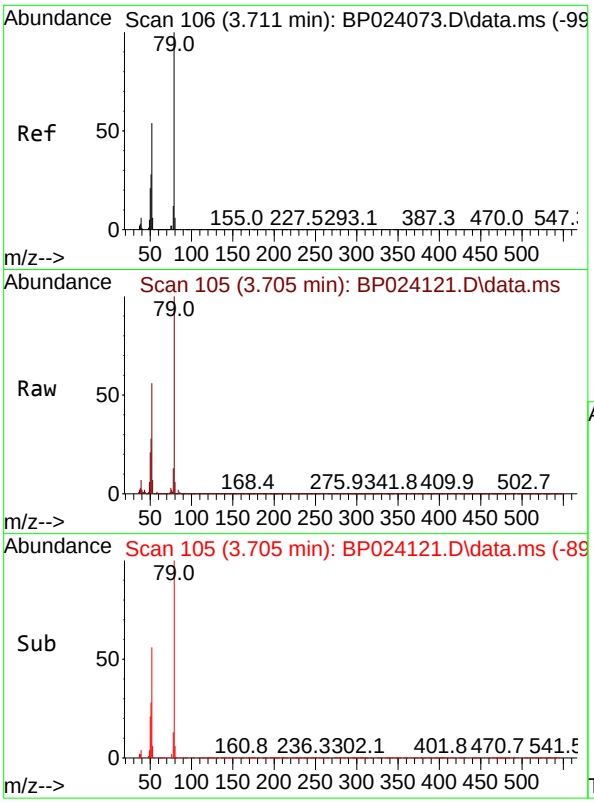


#2
1,4-Dioxane
Concen: 20.879 ng
RT: 3.311 min Scan# 38
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 88 Resp: 223967

Ion	Ratio	Lower	Upper
88	100		
58	64.6	49.1	73.7
43	22.7	18.0	27.0

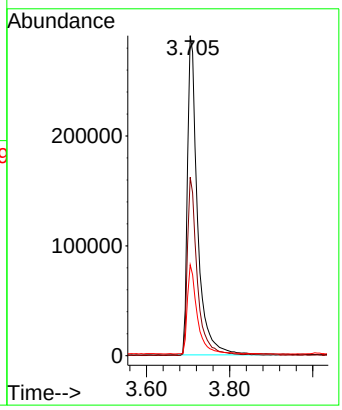




#3
Pyridine
Concen: 17.607 ng
RT: 3.705 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 79 Resp: 4910

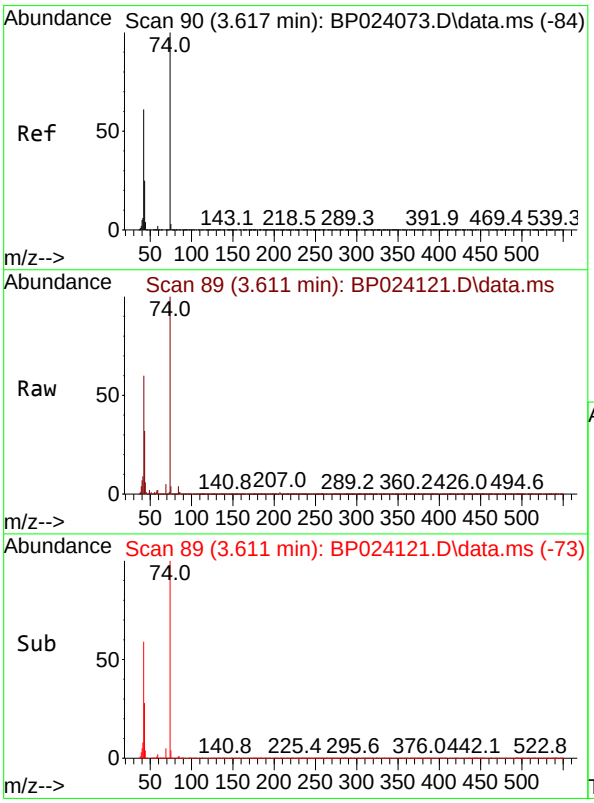
Ion	Ratio	Lower	Upper
79	100		
52	55.8	43.5	65.3
51	28.4	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

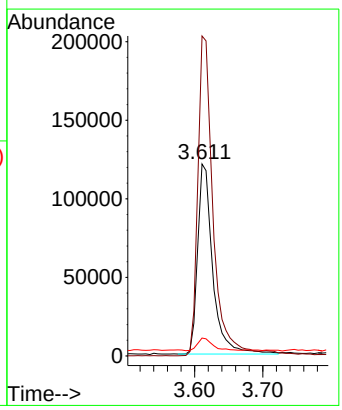
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

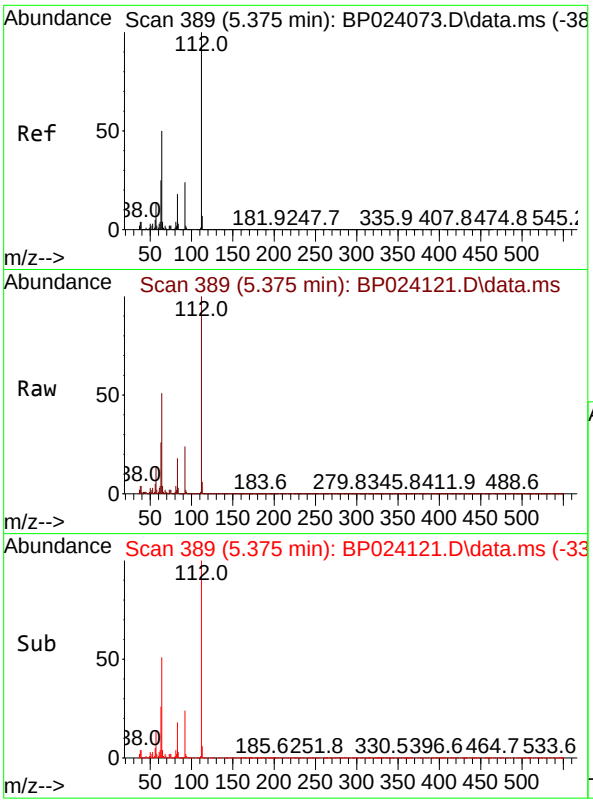


#4
n-Nitrosodimethylamine
Concen: 18.773 ng
RT: 3.611 min Scan# 89
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 42 Resp: 185712

Ion	Ratio	Lower	Upper
42	100		
74	166.6	132.0	198.0
44	9.3	5.3	7.9#

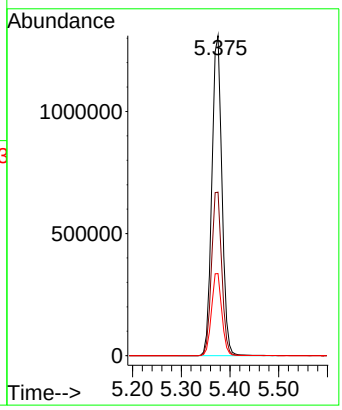




#5
2-Fluorophenol
Concen: 68.353 ng
RT: 5.375 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:112 Resp: 186911

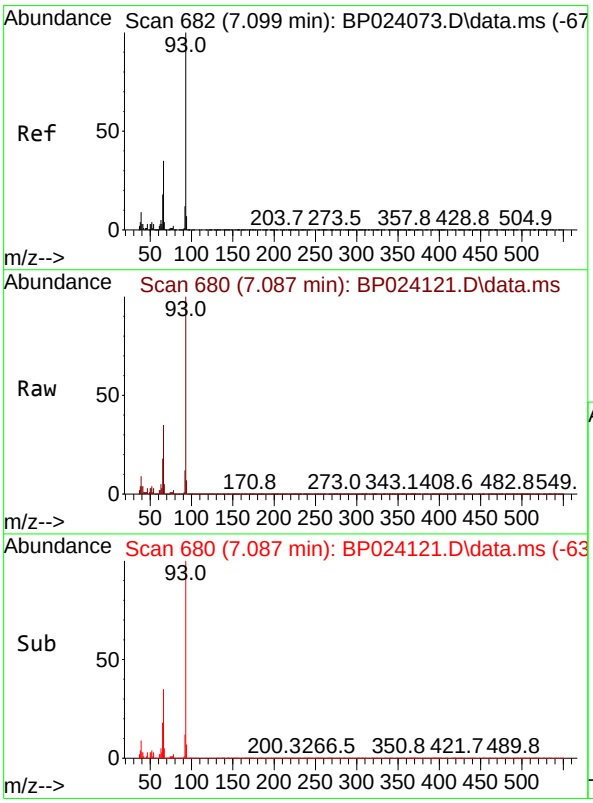
Ion	Ratio	Lower	Upper
112	100		
64	51.1	39.6	59.4
63	25.7	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

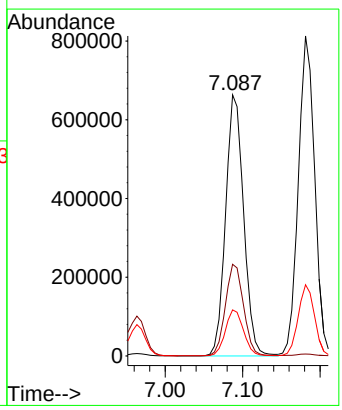
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

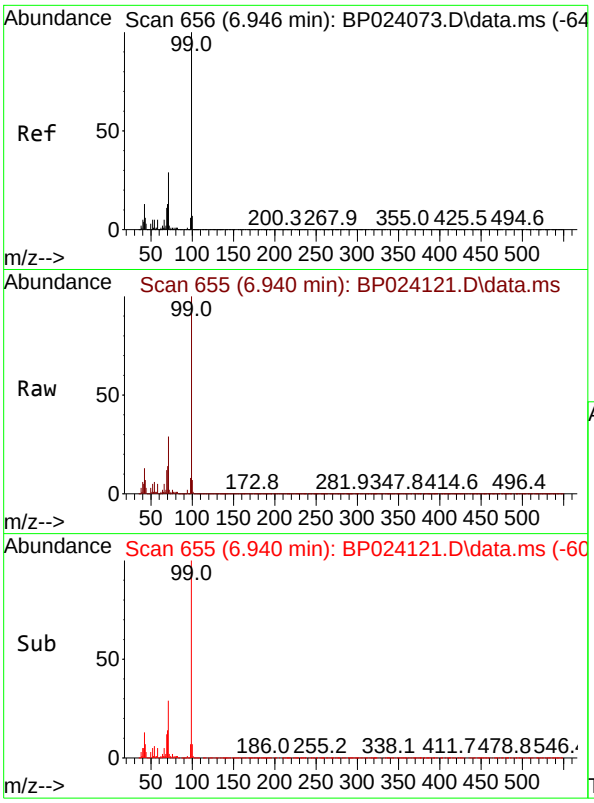


#6
Aniline
Concen: 33.396 ng
RT: 7.087 min Scan# 680
Delta R.T. -0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 93 Resp: 1074893

Ion	Ratio	Lower	Upper
93	100		
66	35.1	28.2	42.4
65	17.7	14.1	21.1

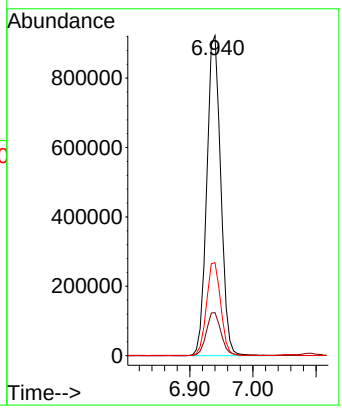




#7
Phenol-d6
Concen: 40.417 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 99 Resp: 142048

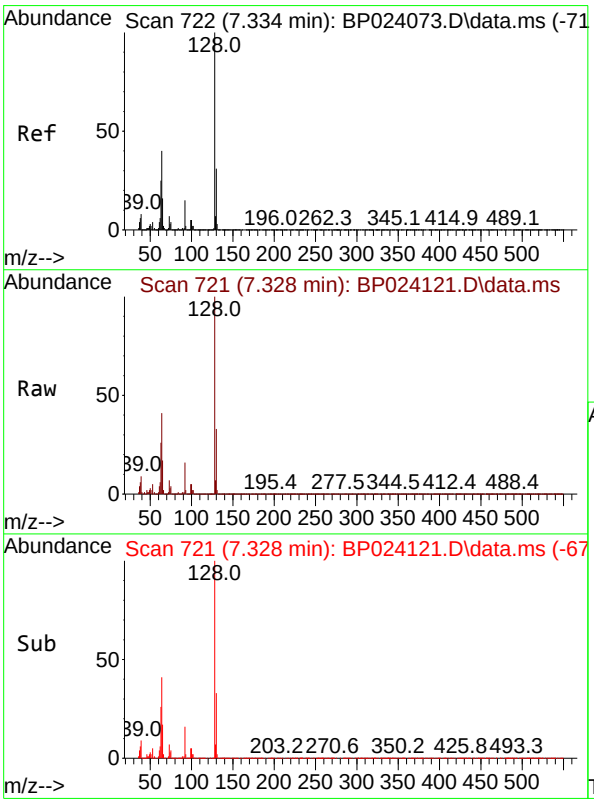
Ion	Ratio	Lower	Upper
99	100		
42	13.4	10.3	15.5
71	29.1	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

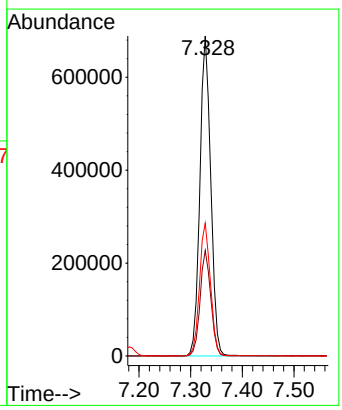
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

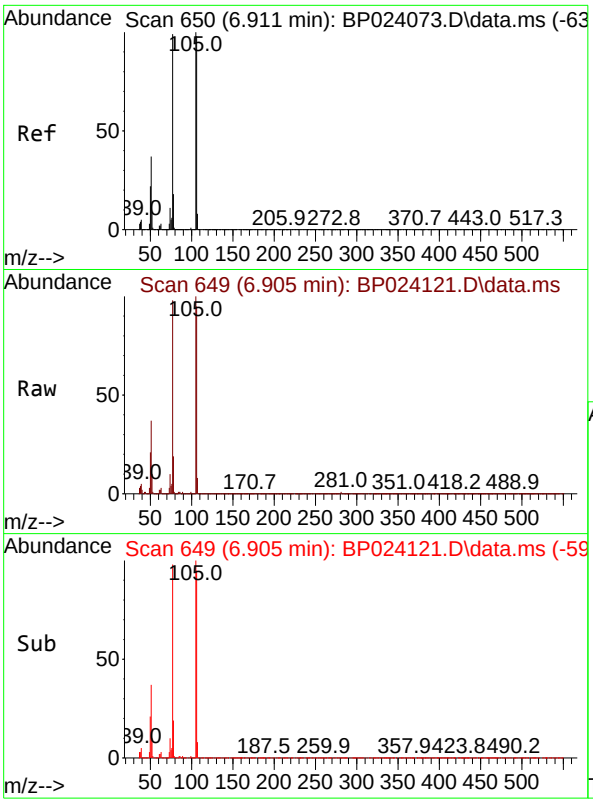


#8
2-Chlorophenol
Concen: 34.708 ng
RT: 7.328 min Scan# 721
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:128 Resp: 1004552

Ion	Ratio	Lower	Upper
128	100		
130	33.0	11.5	51.5
64	41.5	19.8	59.8

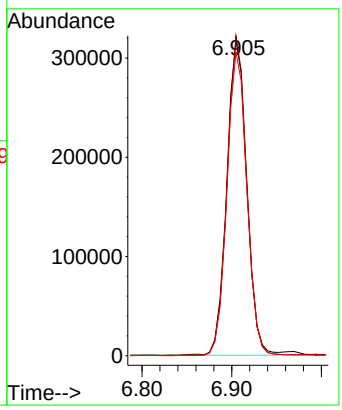




#9
Benzaldehyde
Concen: 30.511 ng
RT: 6.905 min Scan# 64
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 77 Resp: 48957

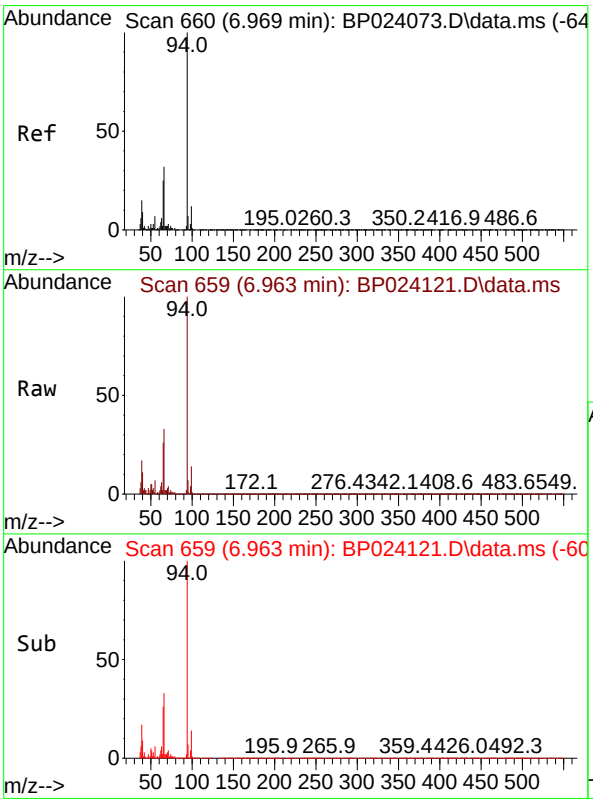
Ion	Ratio	Lower	Upper
77	100		
105	101.6	81.4	121.4
106	96.4	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

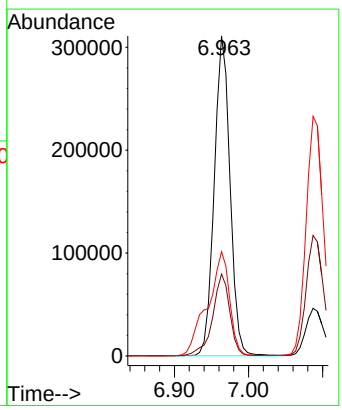
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

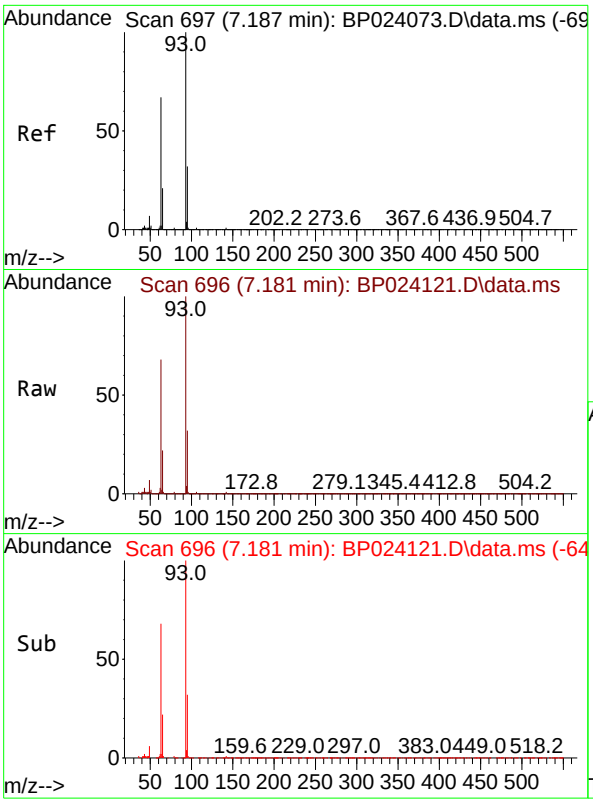


#10
Phenol
Concen: 13.020 ng
RT: 6.963 min Scan# 659
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 94 Resp: 460147

Ion	Ratio	Lower	Upper
94	100		
65	25.6	5.0	45.0
66	32.5	11.6	51.6

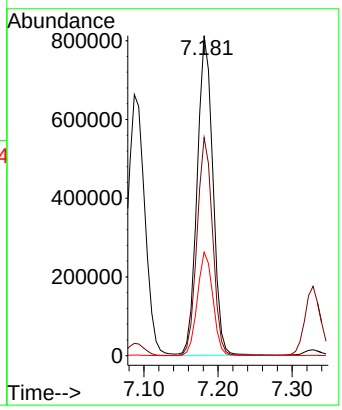




#11
bis(2-Chloroethyl)ether
Concen: 42.821 ng
RT: 7.181 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 93 Resp: 119196

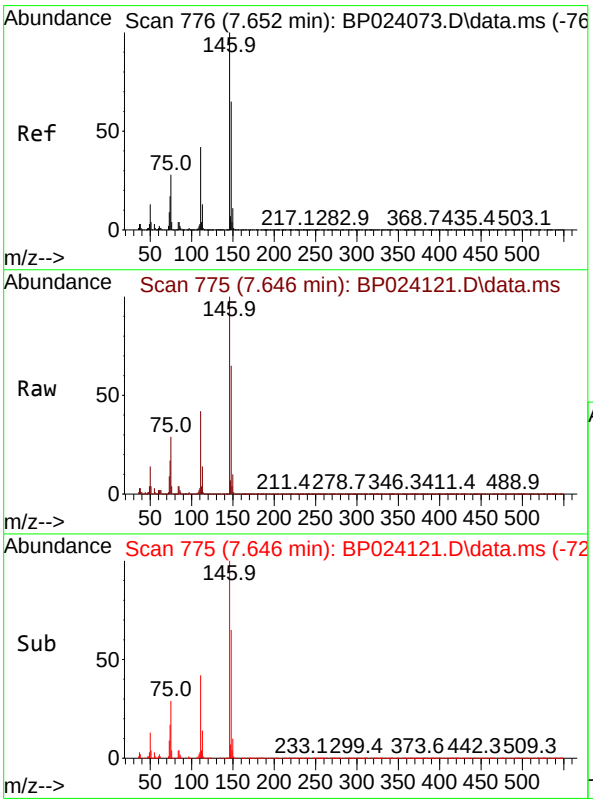
Ion	Ratio	Lower	Upper
93	100		
63	68.2	46.5	86.5
95	32.3	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

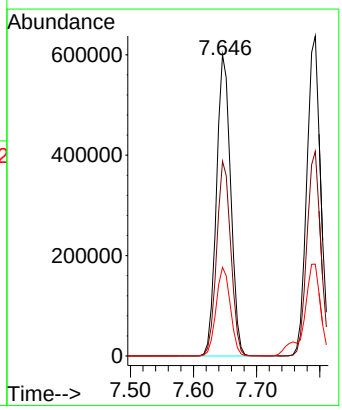
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

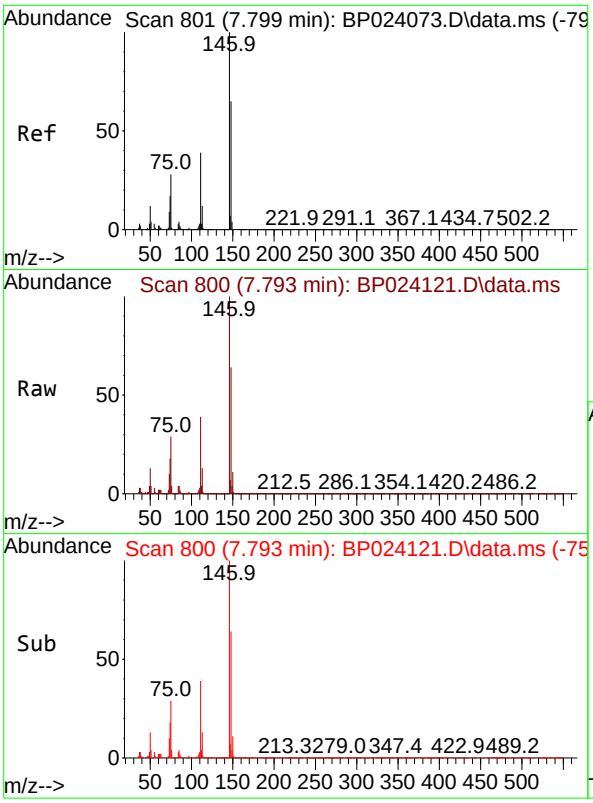


#12
1,3-Dichlorobenzene
Concen: 29.435 ng
RT: 7.646 min Scan# 775
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:146 Resp: 935910

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.8	77.8
75	29.4	22.6	33.8

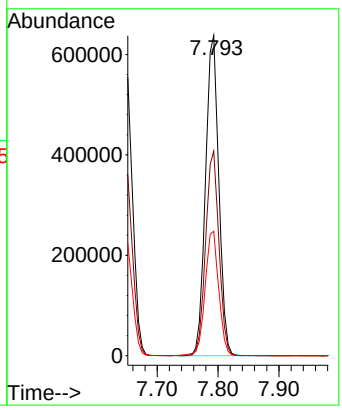




#13
1,4-Dichlorobenzene
Concen: 30.015 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:146 Resp: 96513

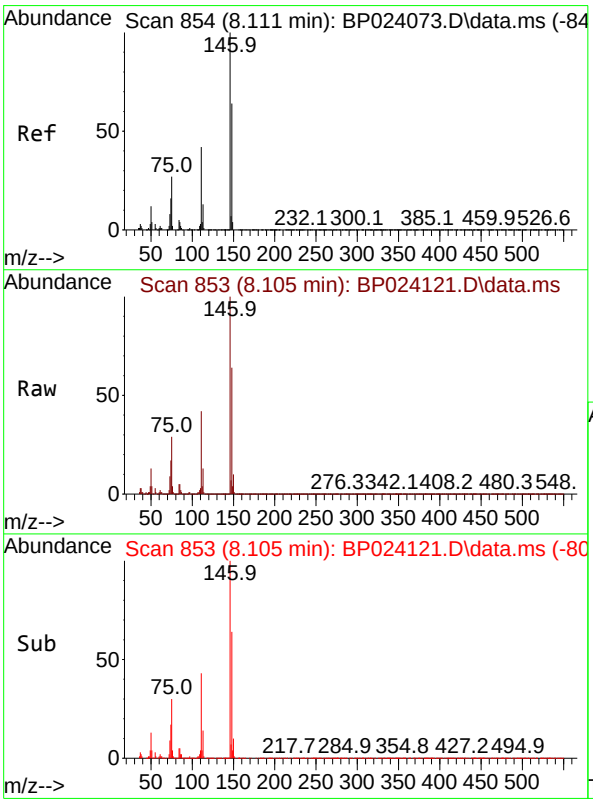
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
111	38.9	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

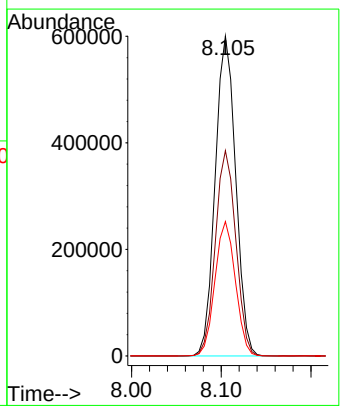
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

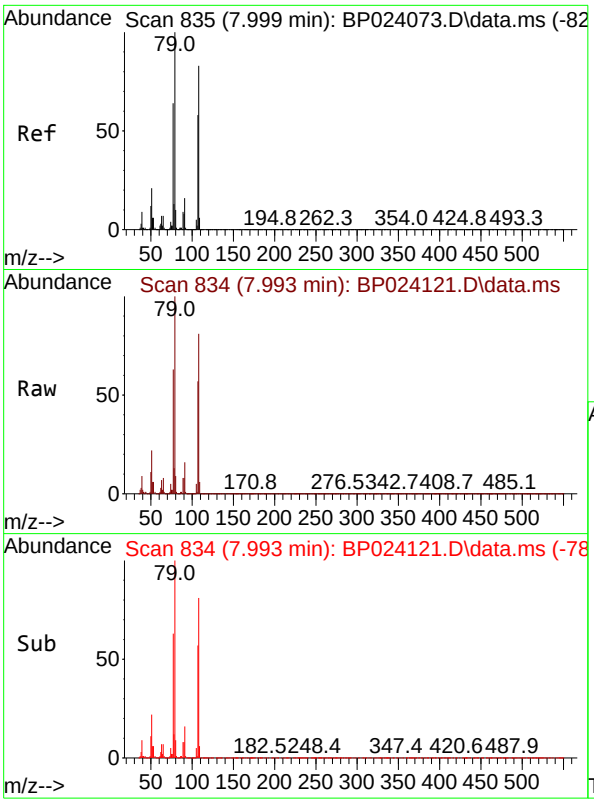


#14
1,2-Dichlorobenzene
Concen: 30.866 ng
RT: 8.105 min Scan# 853
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:146 Resp: 952510

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.2	76.8
111	42.0	33.4	50.0





#15
Benzyl Alcohol
Concen: 32.114 ng
RT: 7.993 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

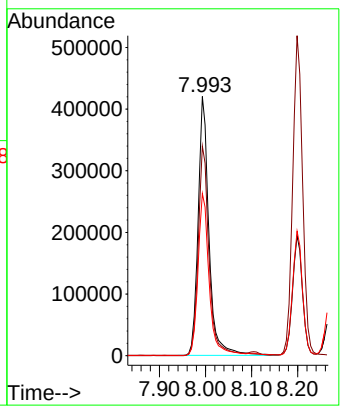
Tgt Ion: 79 Resp: 69088

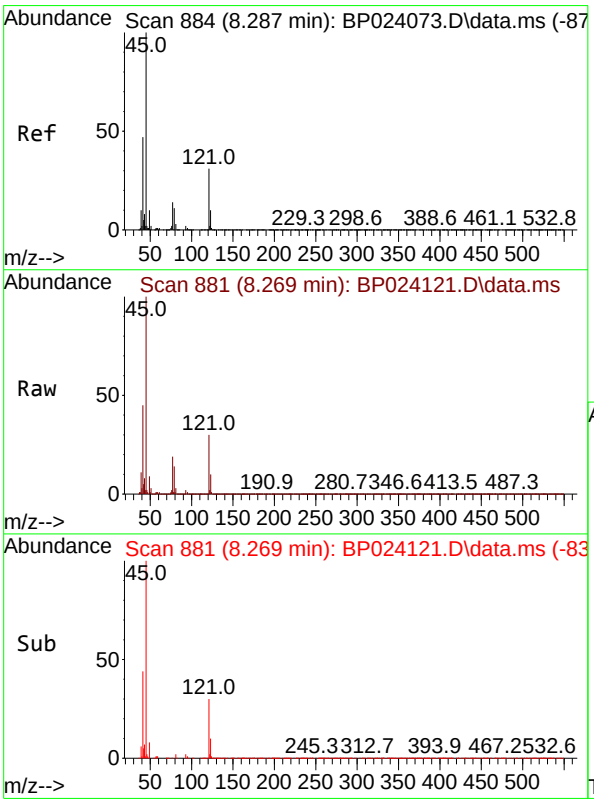
Ion	Ratio	Lower	Upper
79	100		
108	80.9	66.4	99.6
77	62.6	51.3	76.9

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

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

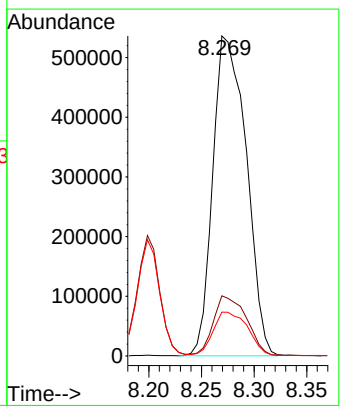


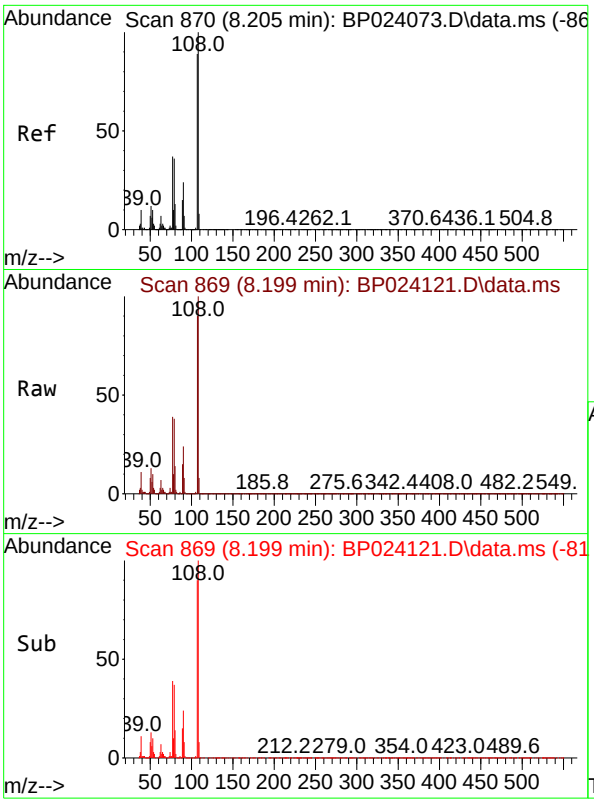


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.830 ng m
RT: 8.269 min Scan# 881
Delta R.T. -0.018 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 45 Resp: 1184353

Ion	Ratio	Lower	Upper
45	100		
77	18.8	0.0	38.8
79	13.7	0.0	35.4

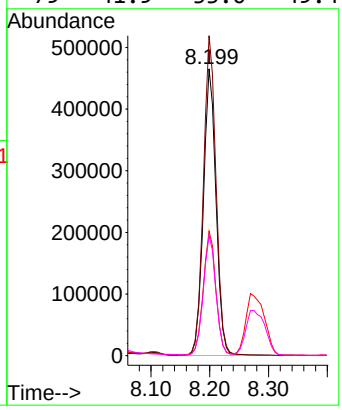




#17
2-Methylphenol
Concen: 32.241 ng
RT: 8.199 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:107 Resp: 69436

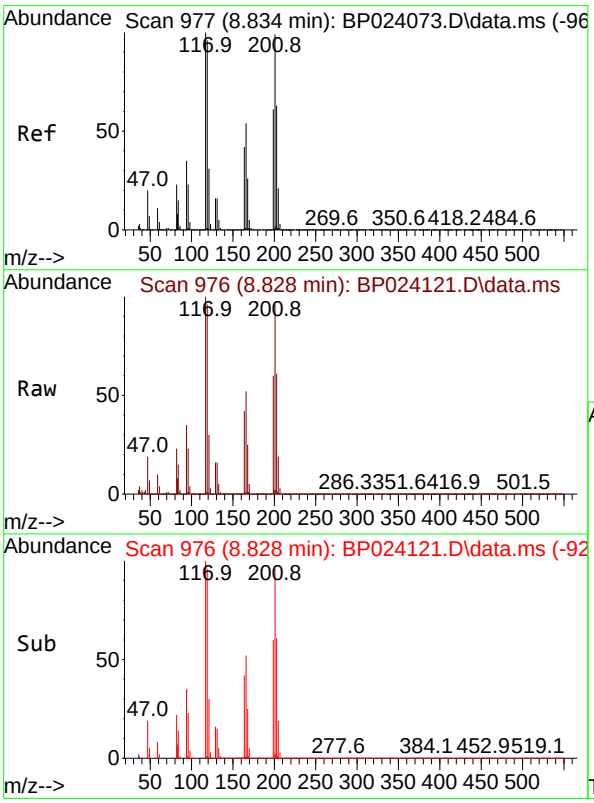
Ion	Ratio	Lower	Upper
107	100		
108	111.6	90.0	135.0
77	43.4	33.8	50.6
79	41.9	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

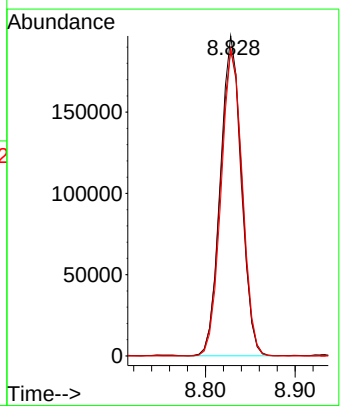
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

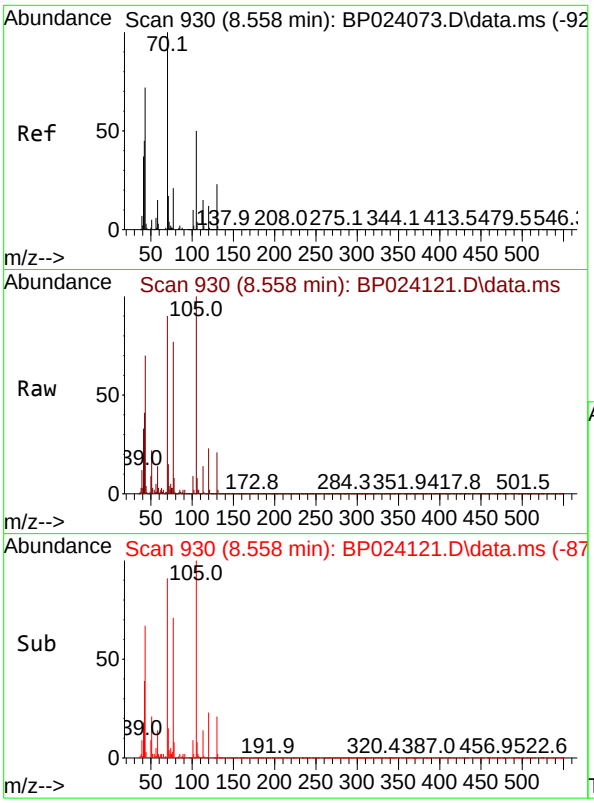


#18
Hexachloroethane
Concen: 27.838 ng
RT: 8.828 min Scan# 976
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:117 Resp: 322379

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.9	115.3
201	95.9	79.4	119.2

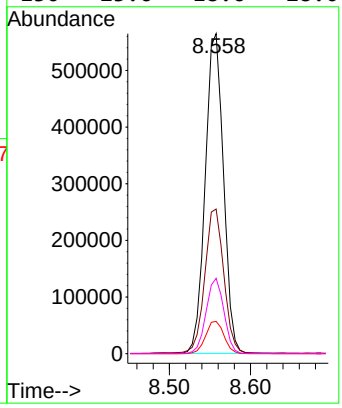




#19
n-Nitroso-di-n-propylamine
Concen: 46.530 ng
RT: 8.558 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 70 Resp: 87927

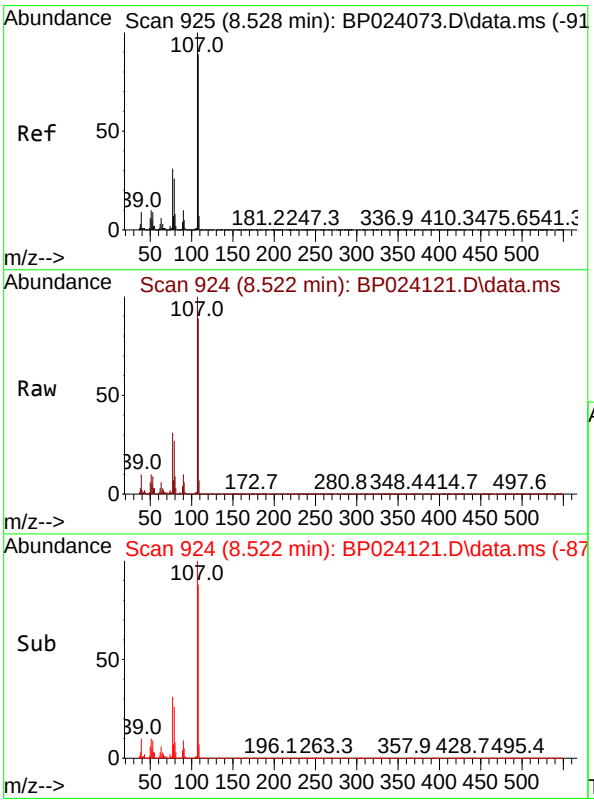
Ion	Ratio	Lower	Upper
70	100		
42	45.2	36.6	54.8
101	10.1	8.2	12.2
130	23.6	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

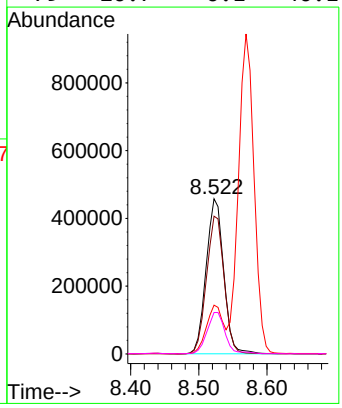
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

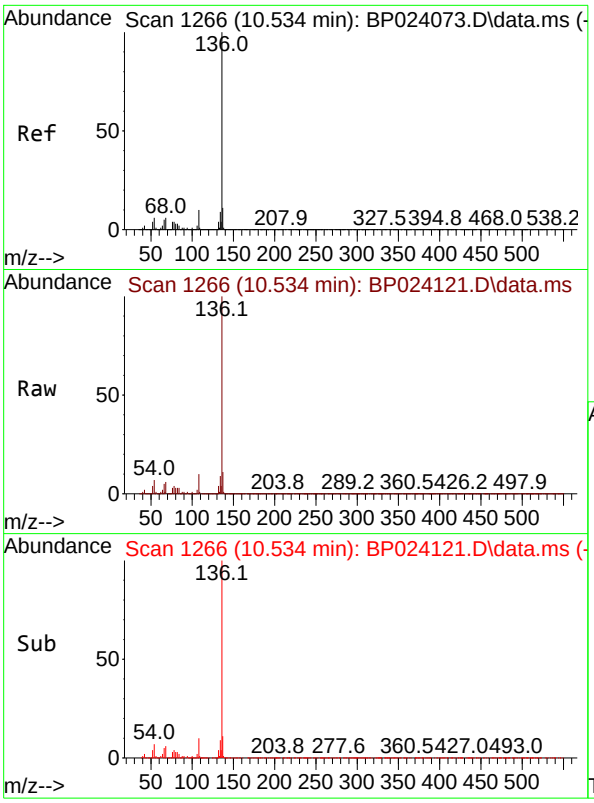


#20
3+4-Methylphenols
Concen: 27.969 ng
RT: 8.522 min Scan# 924
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:107 Resp: 819458

Ion	Ratio	Lower	Upper
107	100		
108	88.8	68.5	108.5
77	31.4	10.7	50.7
79	26.7	6.1	46.1

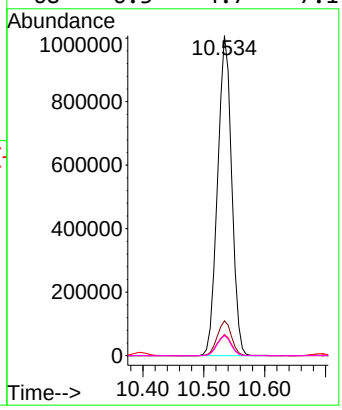




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.534 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

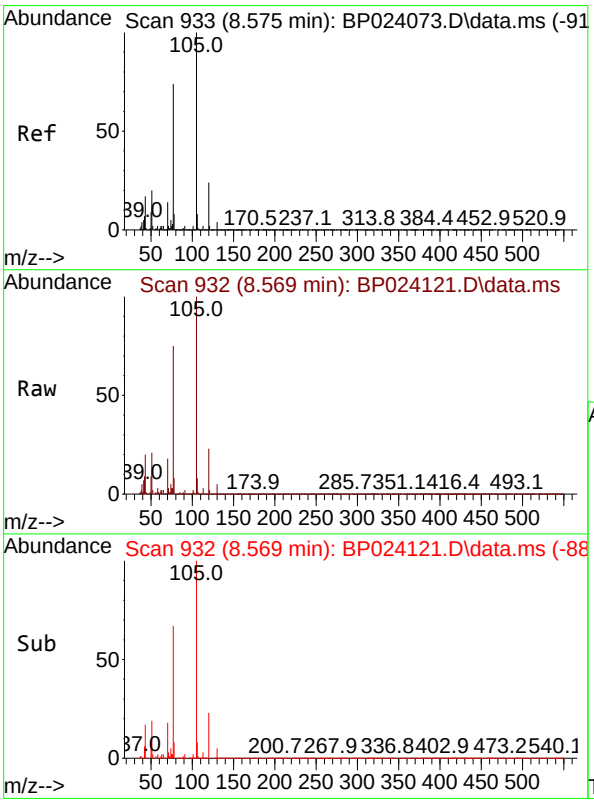
Tgt Ion:136 Resp: 161807

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	6.6	4.9	7.3
68	6.3	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

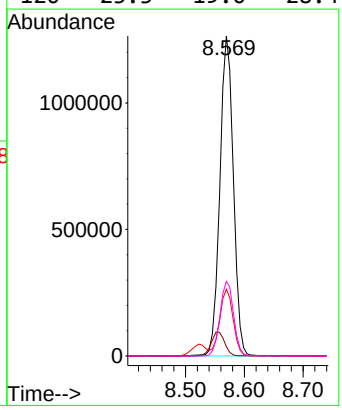
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

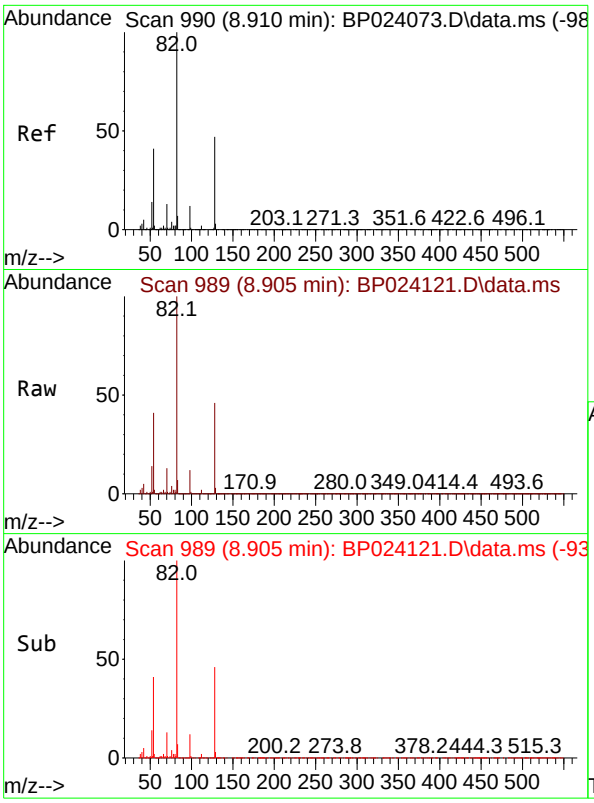


#22
Acetophenone
Concen: 48.501 ng
RT: 8.569 min Scan# 932
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:105 Resp: 2016660

Ion	Ratio	Lower	Upper
105	100		
71	2.9	1.9	2.9#
51	20.8	16.3	24.5
120	23.3	19.0	28.4

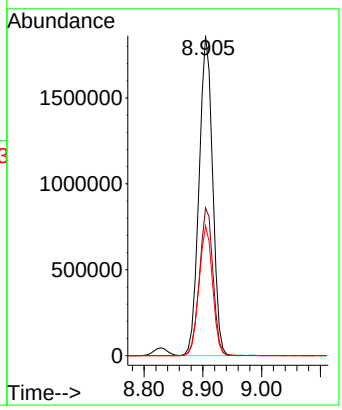




#23
Nitrobenzene-d5
Concen: 102.839 ng
RT: 8.905 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 82 Resp: 298269

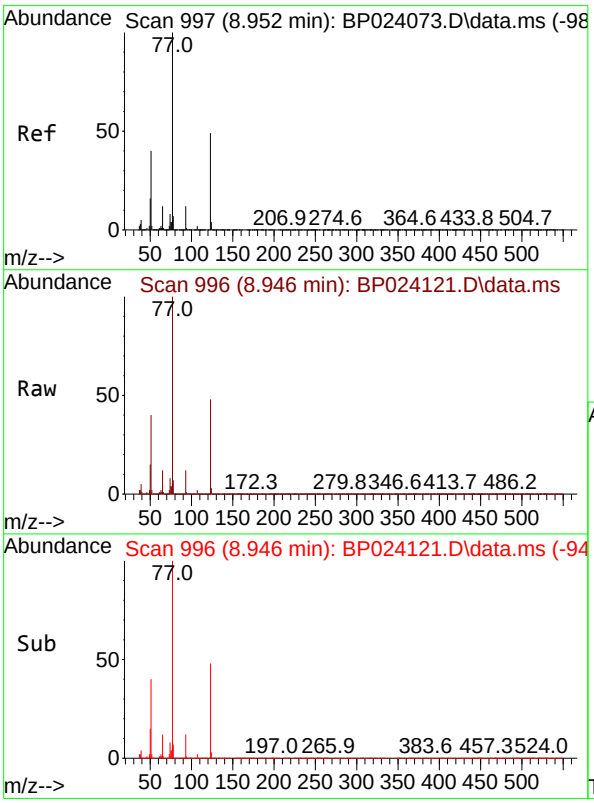
Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.4	56.2
54	40.6	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

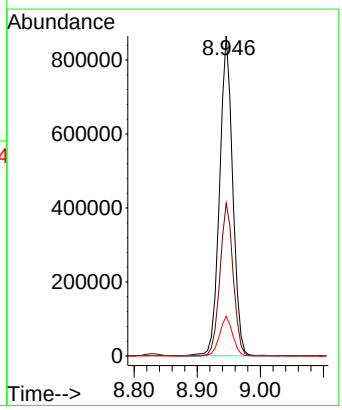
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

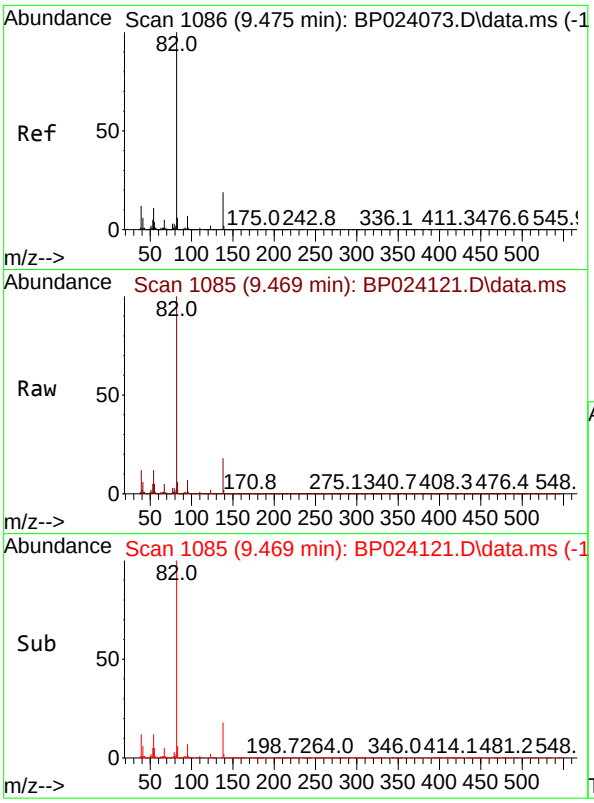


#24
Nitrobenzene
Concen: 43.533 ng
RT: 8.946 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 77 Resp: 1242598

Ion	Ratio	Lower	Upper
77	100		
123	47.7	39.4	59.2
65	12.4	9.9	14.9

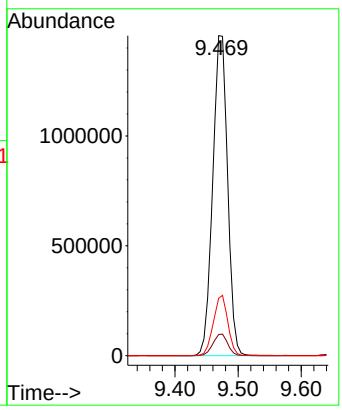




#25
Isophorone
Concen: 50.176 ng
RT: 9.469 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 82 Resp: 237978

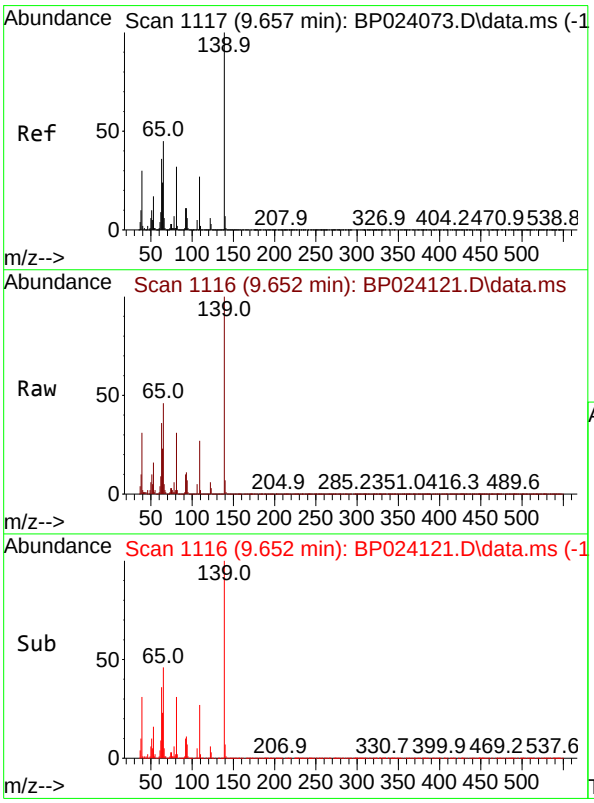
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.4	8.0
138	18.0	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

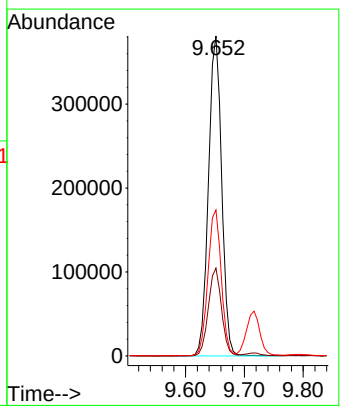
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

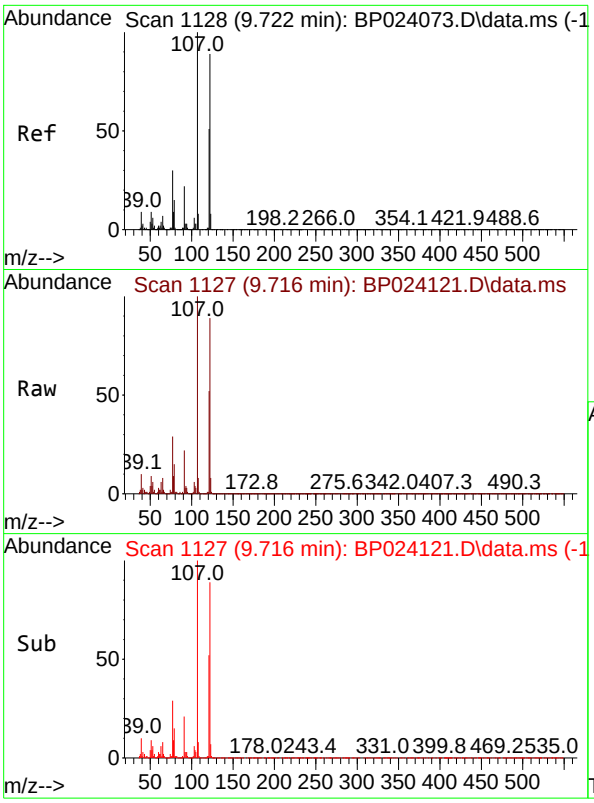


#26
2-Nitrophenol
Concen: 45.055 ng
RT: 9.652 min Scan# 1116
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:139 Resp: 592497

Ion	Ratio	Lower	Upper
139	100		
109	27.4	21.7	32.5
65	45.6	36.1	54.1





#27
2,4-Dimethylphenol
Concen: 53.817 ng
RT: 9.716 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

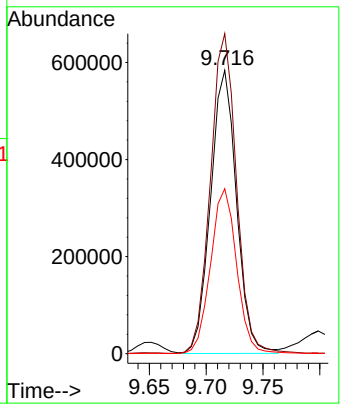
Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

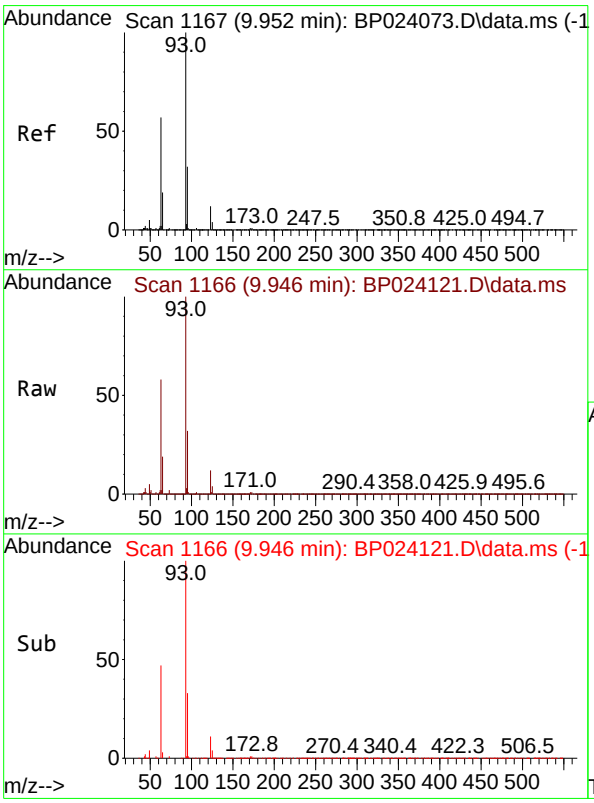
Tgt Ion:122 Resp: 92900

Ion	Ratio	Lower	Upper
122	100		
107	112.9	89.8	134.8
121	58.2	45.9	68.9

Manual Integrations
APPROVED

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

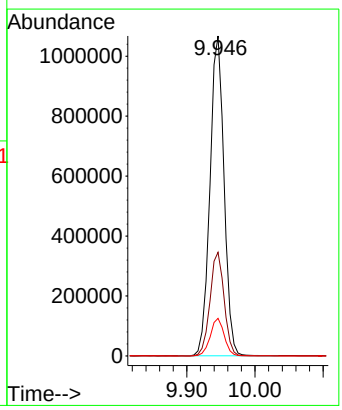


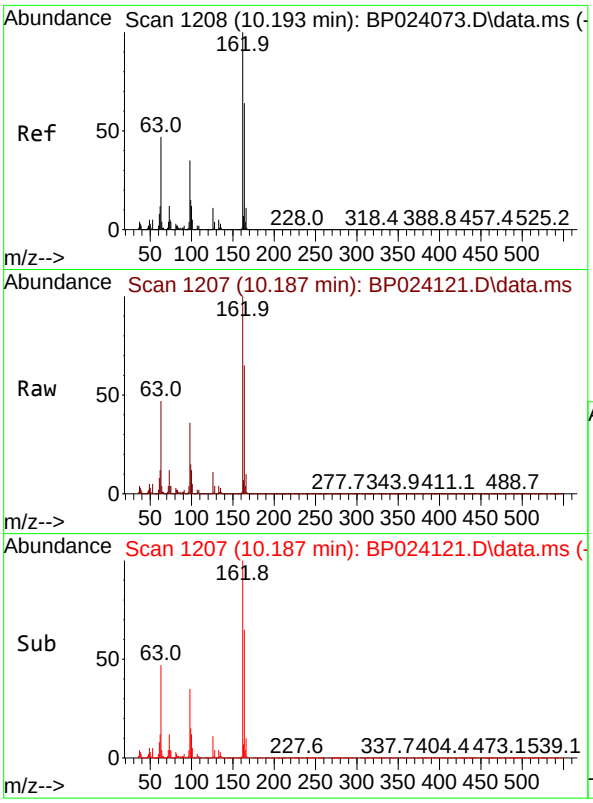


#28
bis(2-Chloroethoxy)methane
Concen: 44.717 ng
RT: 9.946 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 93 Resp: 1536438

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.9	38.9
123	11.7	9.7	14.5

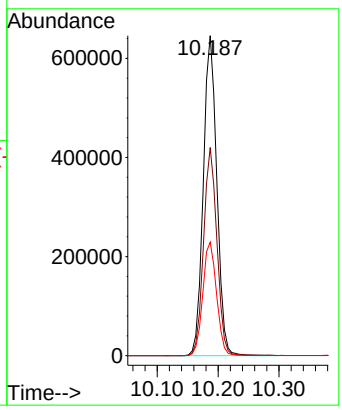




#29
2,4-Dichlorophenol
Concen: 42.376 ng
RT: 10.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:162 Resp: 99828

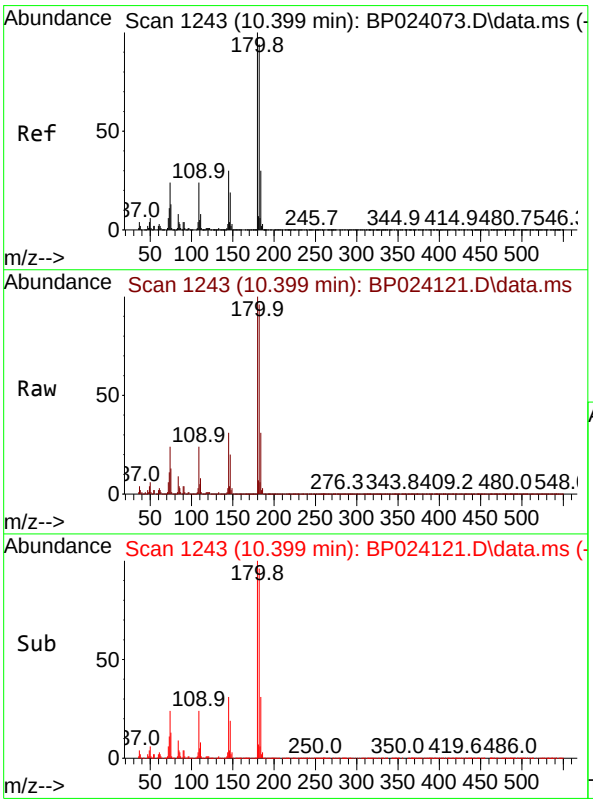
Ion	Ratio	Lower	Upper
162	100		
164	65.0	44.5	84.5
98	35.5	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

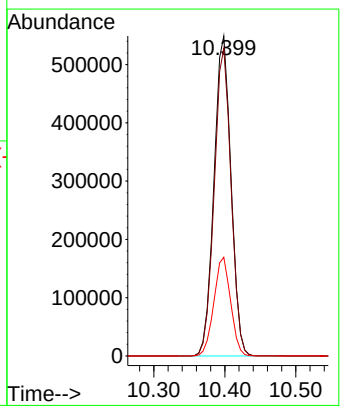
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

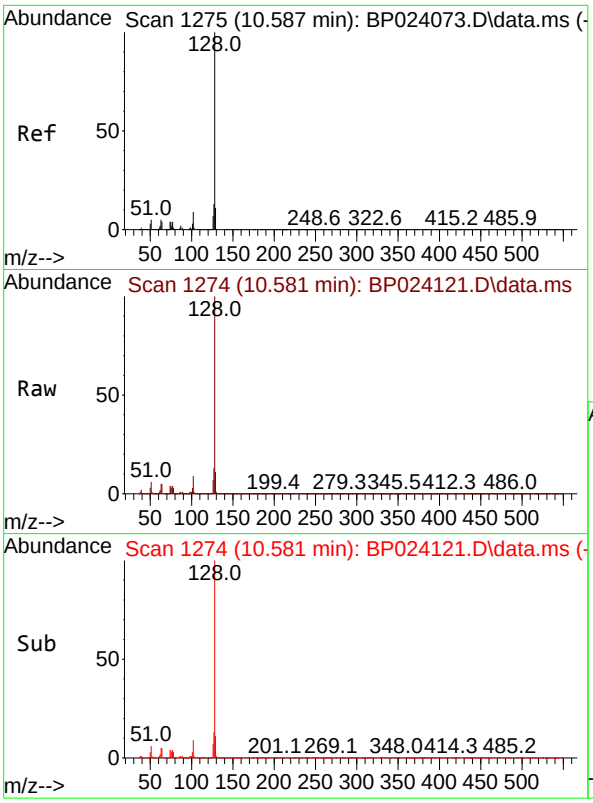


#30
1,2,4-Trichlorobenzene
Concen: 33.669 ng
RT: 10.399 min Scan# 1243
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:180 Resp: 908773

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.4	113.2
145	30.9	24.0	36.0

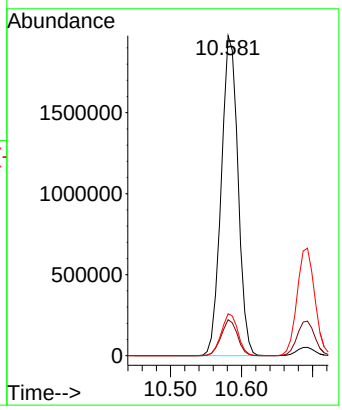




#31
Naphthalene
Concen: 37.034 ng
RT: 10.581 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:128 Resp: 322211

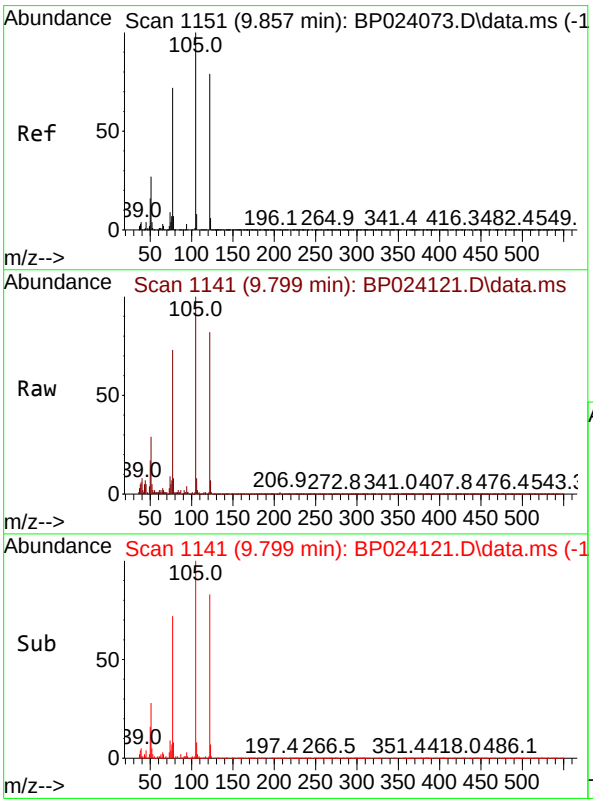
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	13.0
127	13.1	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

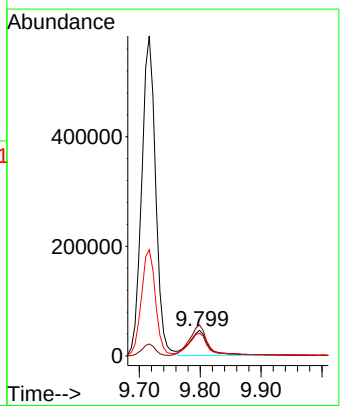
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

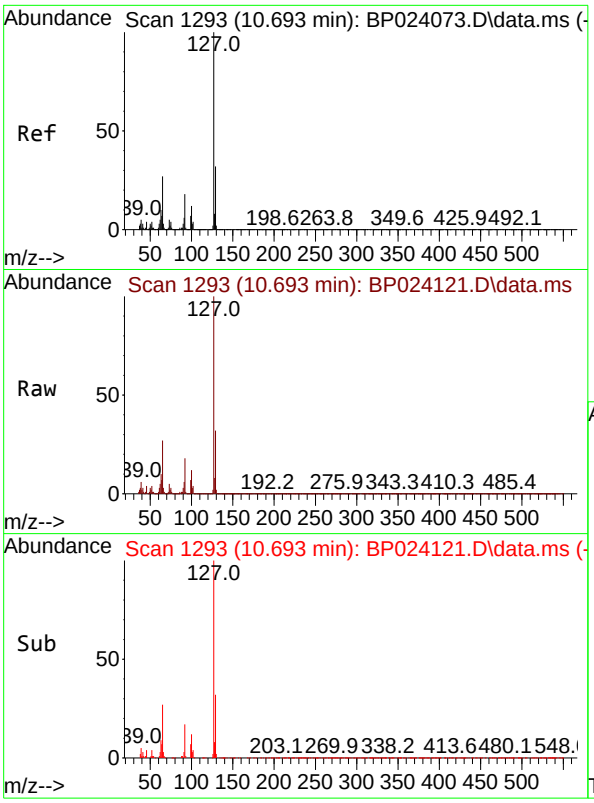


#32
Benzoic acid
Concen: 12.027 ng
RT: 9.799 min Scan# 1141
Delta R.T. -0.058 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:122 Resp: 97401

Ion	Ratio	Lower	Upper
122	100		
105	121.5	103.7	143.7
77	88.7	69.9	109.9

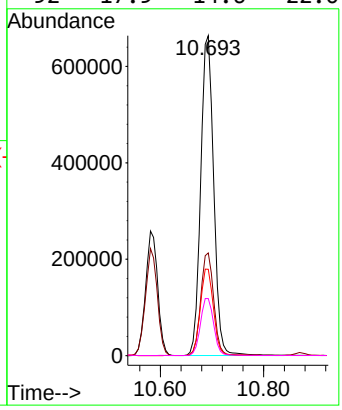




#33
4-Chloroaniline
Concen: 37.800 ng
RT: 10.693 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:127 Resp: 115859

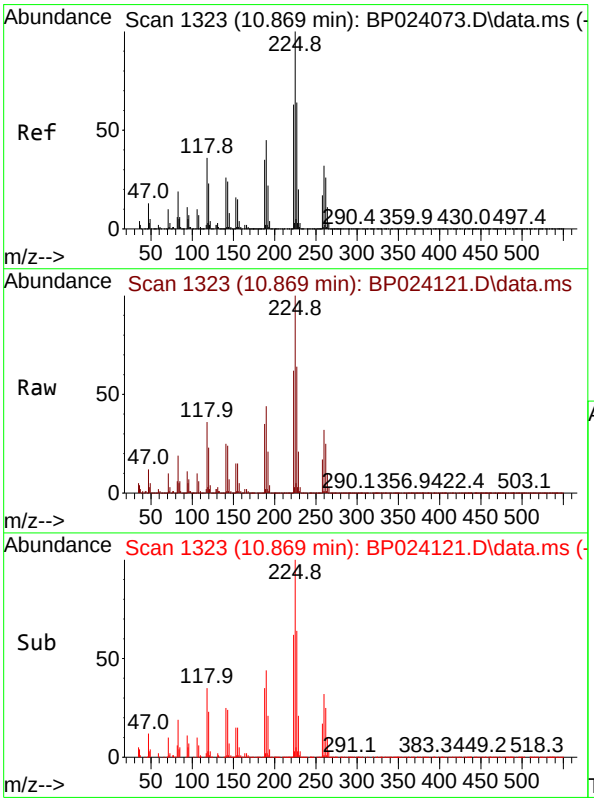
Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.4	38.0
65	27.0	21.3	31.9
92	17.9	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

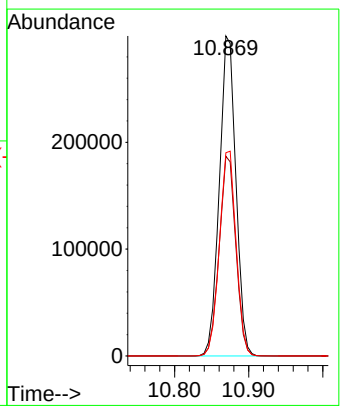
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

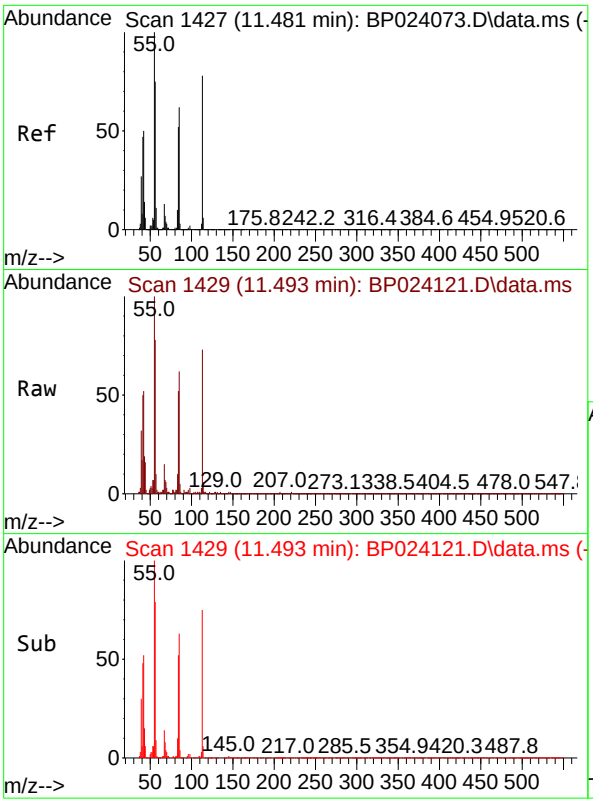


#34
Hexachlorobutadiene
Concen: 29.684 ng
RT: 10.869 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:225 Resp: 464071

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.5	75.7
227	63.5	51.3	76.9

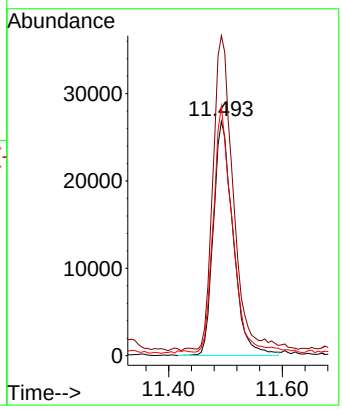




#35
Caprolactam
Concen: 12.733 ng
RT: 11.493 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

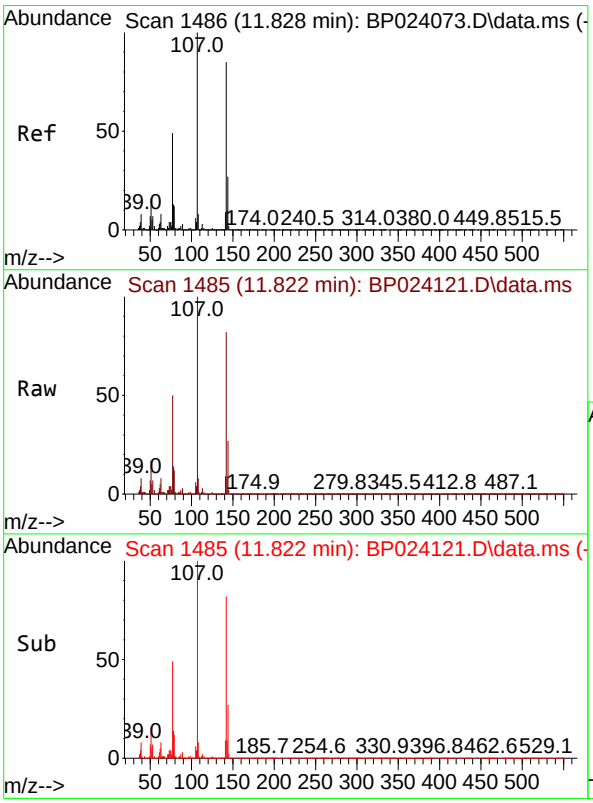
Tgt Ion:113 Resp: 6426

Ion	Ratio	Lower	Upper
113	100		
55	136.5	108.8	148.8
56	106.3	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

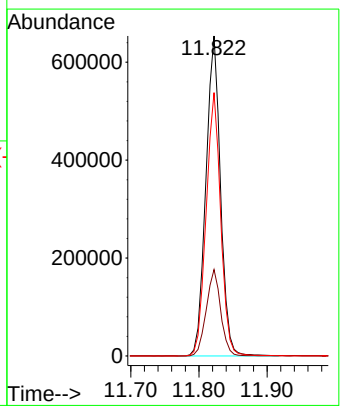
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

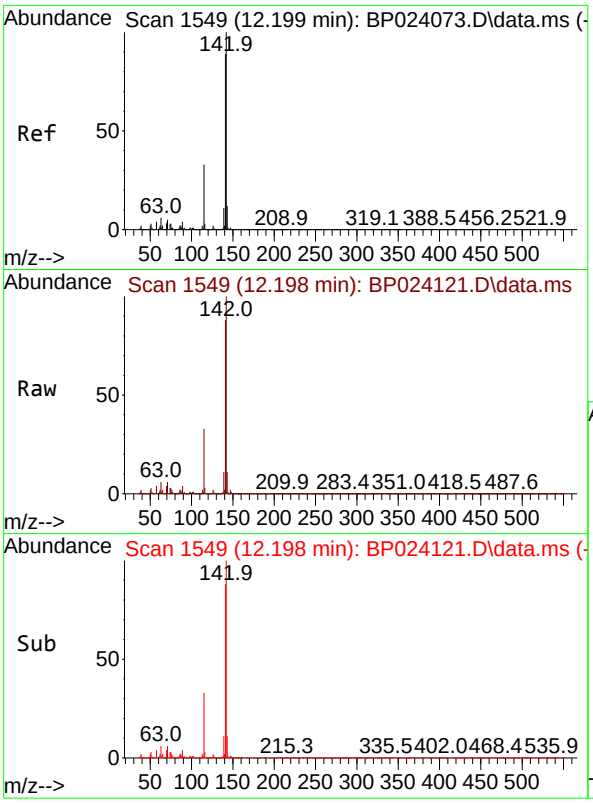


#36
4-Chloro-3-methylphenol
Concen: 40.269 ng
RT: 11.822 min Scan# 1485
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:107 Resp: 975221

Ion	Ratio	Lower	Upper
107	100		
144	27.0	21.8	32.8
142	82.3	67.8	101.8

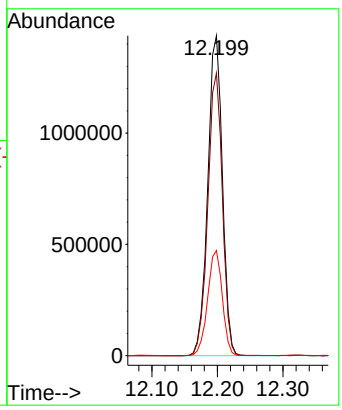




#37
2-Methylnaphthalene
Concen: 38.582 ng
RT: 12.198 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:142 Resp: 223107

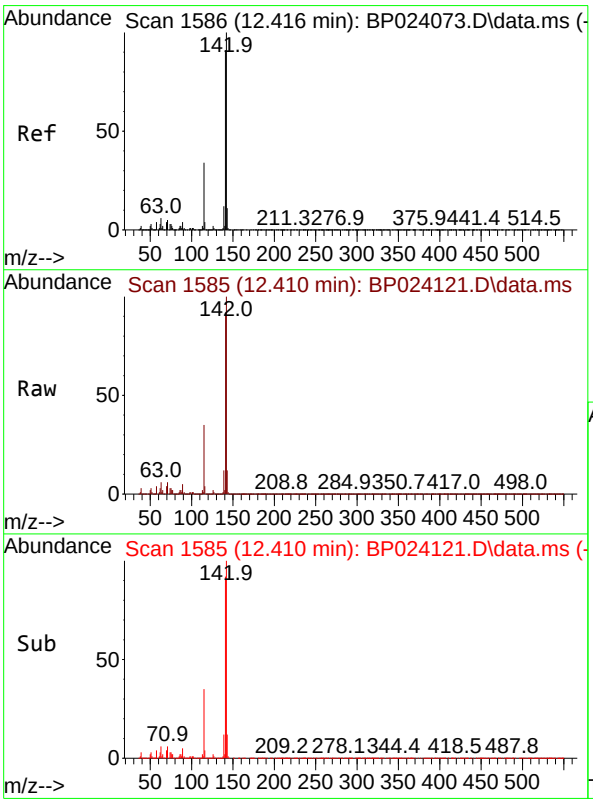
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8
115	32.8	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

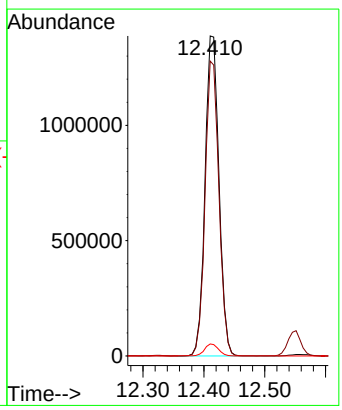
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

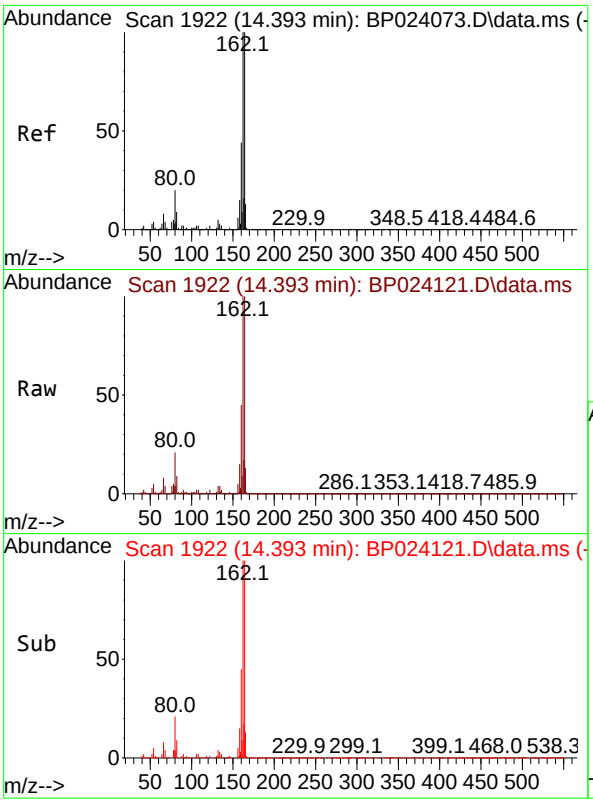


#38
1-Methylnaphthalene
Concen: 39.216 ng
RT: 12.410 min Scan# 1585
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:142 Resp: 2206115

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.0	109.6
116	3.8	2.8	4.2

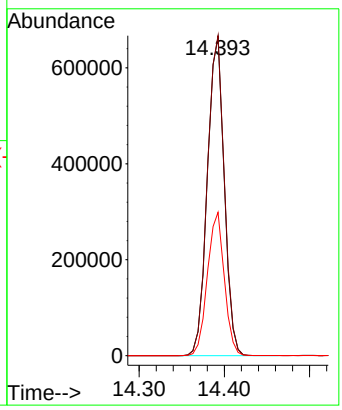




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.393 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:164 Resp: 91264

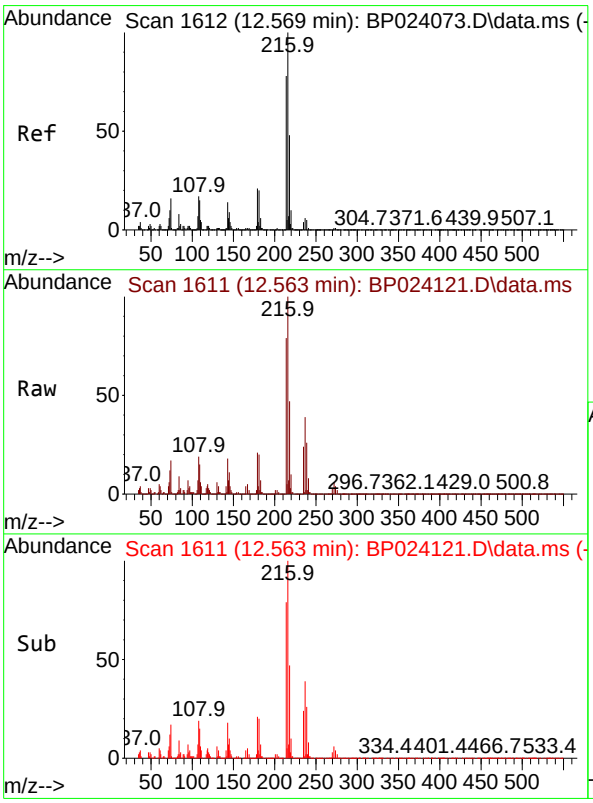
Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.1	120.1
160	45.0	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

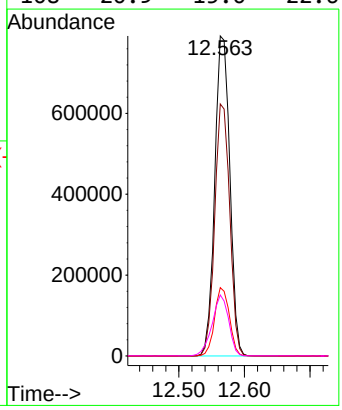
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

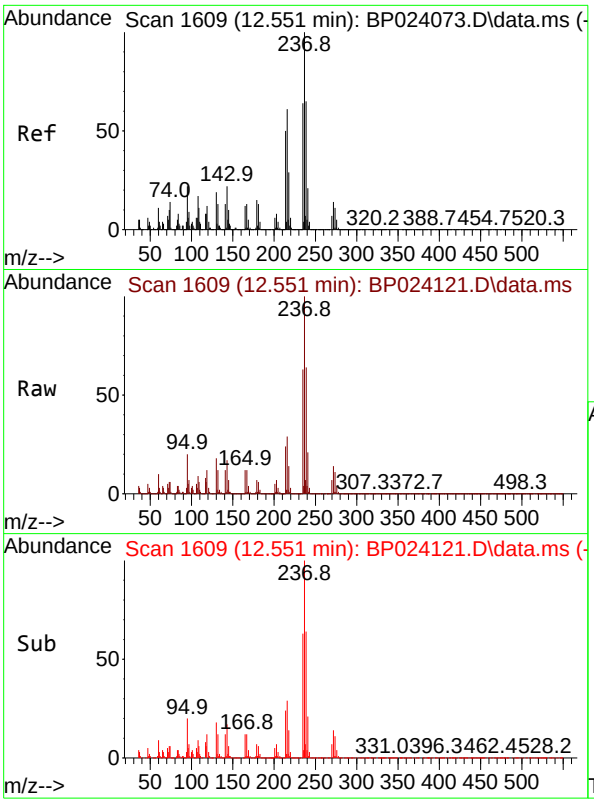


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.882 ng
RT: 12.563 min Scan# 1611
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:216 Resp: 1258547

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.7	94.1
179	21.0	16.6	25.0
108	20.9	15.0	22.6

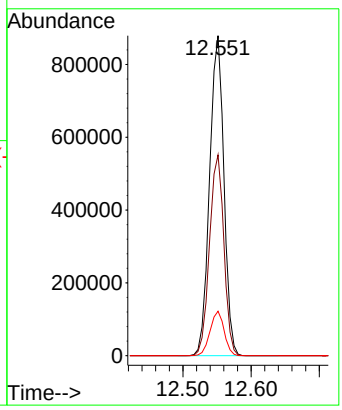




#41
Hexachlorocyclopentadiene
Concen: 122.982 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:237 Resp: 128326

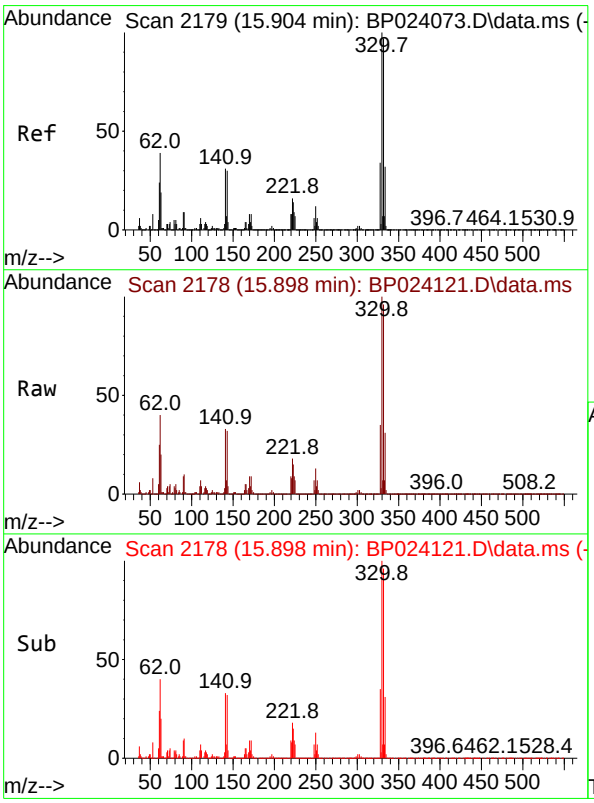
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.5	83.5
272	13.9	0.0	33.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

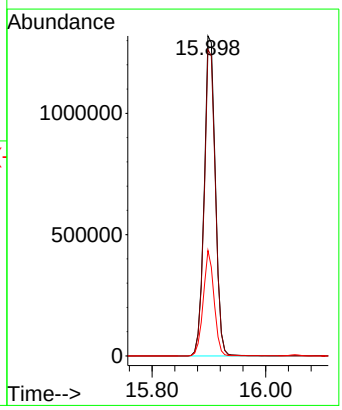
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

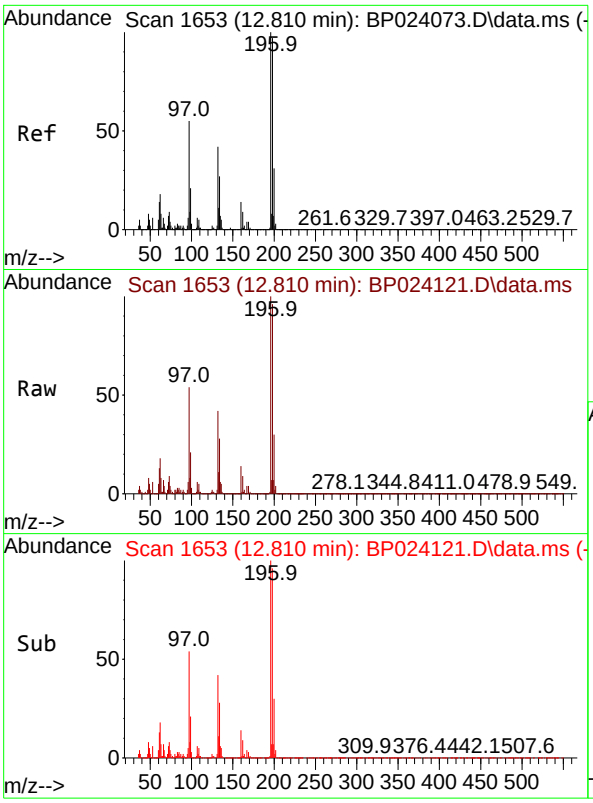


#42
2,4,6-Tribromophenol
Concen: 159.926 ng
RT: 15.898 min Scan# 2178
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:330 Resp: 1787793

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.0	115.4
141	31.9	28.3	42.5

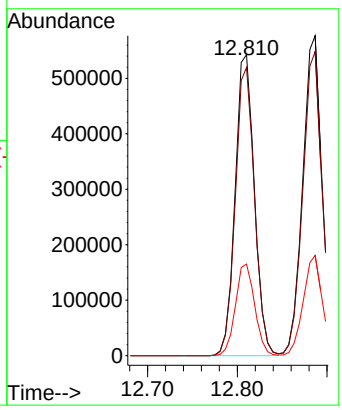




#43
2,4,6-Trichlorophenol
Concen: 47.268 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:196 Resp: 80833

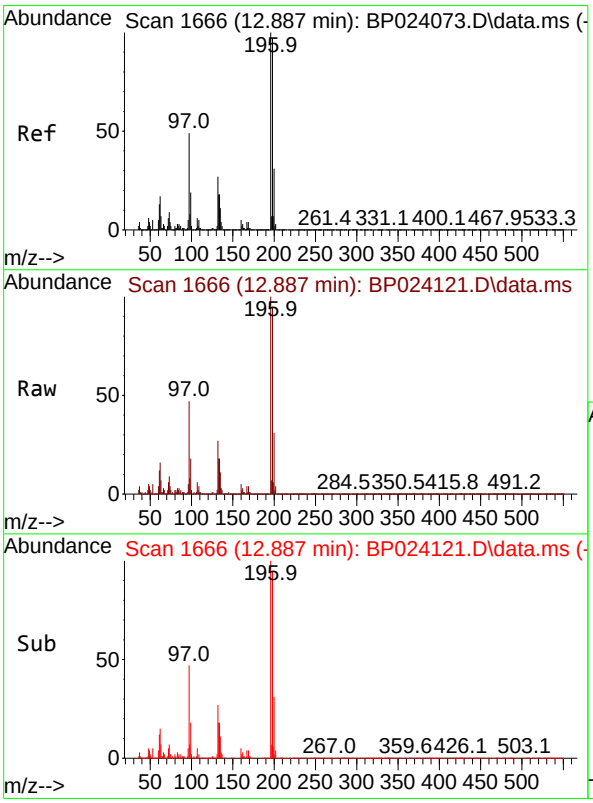
Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.8	116.6
200	30.5	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

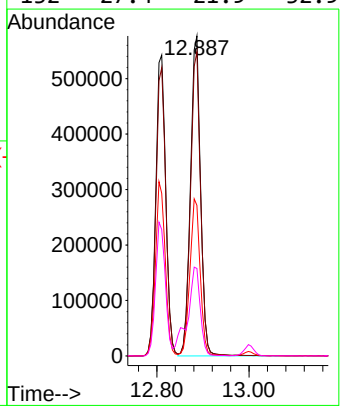
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

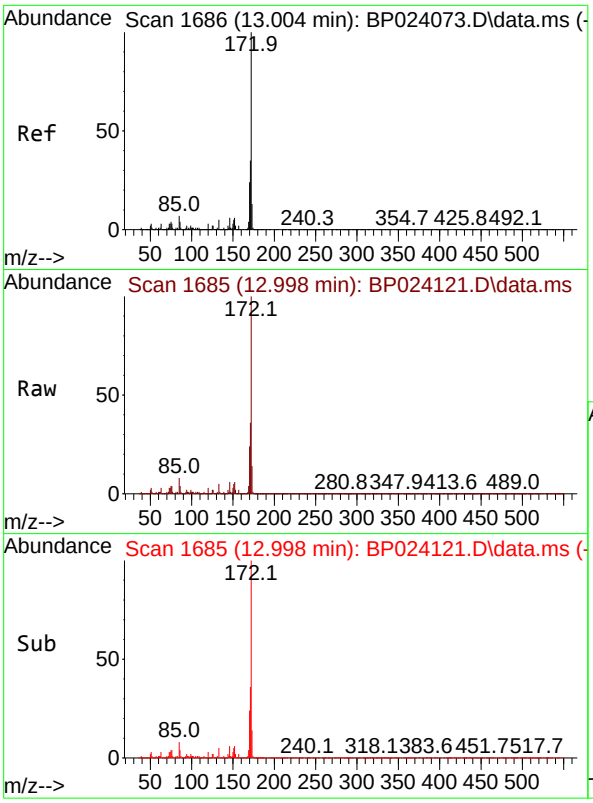


#44
2,4,5-Trichlorophenol
Concen: 46.803 ng
RT: 12.887 min Scan# 1666
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:196 Resp: 875339

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.4	116.2
97	47.1	39.0	58.4
132	27.4	21.9	32.9

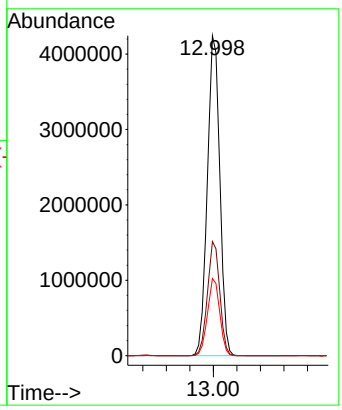




#45
2-Fluorobiphenyl
Concen: 95.646 ng
RT: 12.998 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:172 Resp: 624401

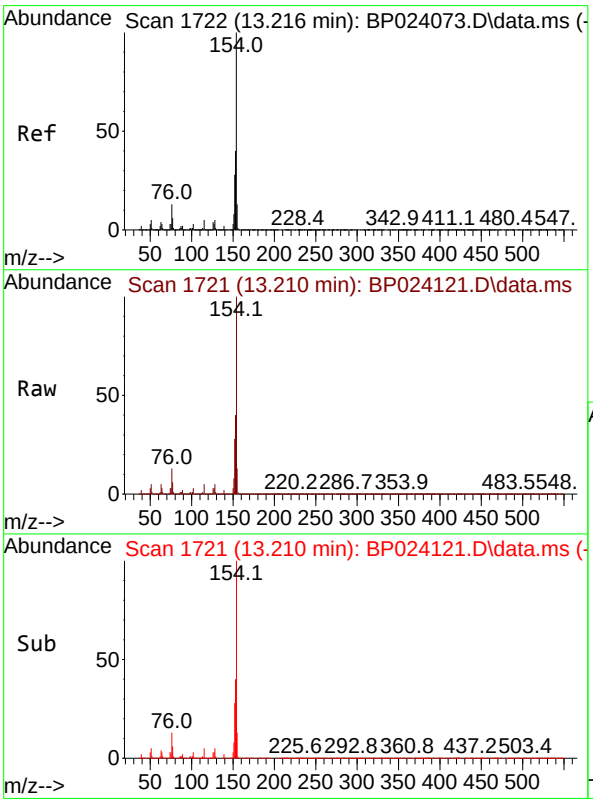
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	24.1	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

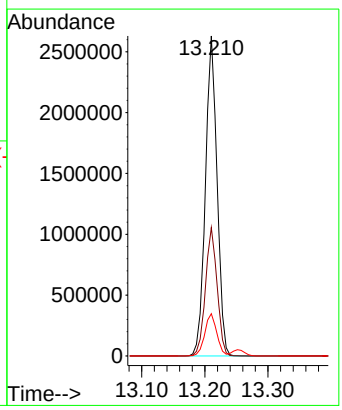
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

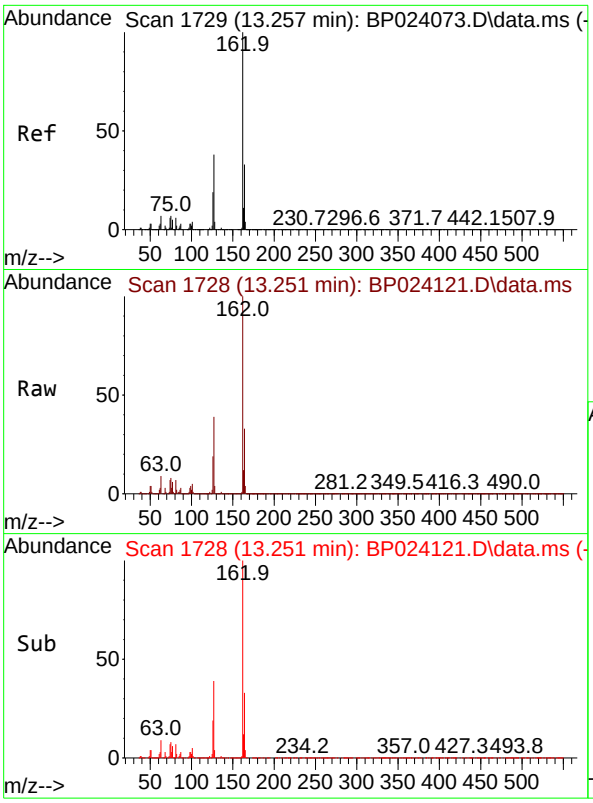


#46
1,1'-Biphenyl
Concen: 47.503 ng
RT: 13.210 min Scan# 1721
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:154 Resp: 3368853

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.0	60.0
76	13.2	0.0	32.6

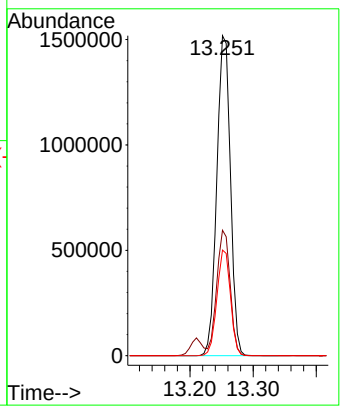




#47
2-Chloronaphthalene
Concen: 42.467 ng
RT: 13.251 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:162 Resp: 227666

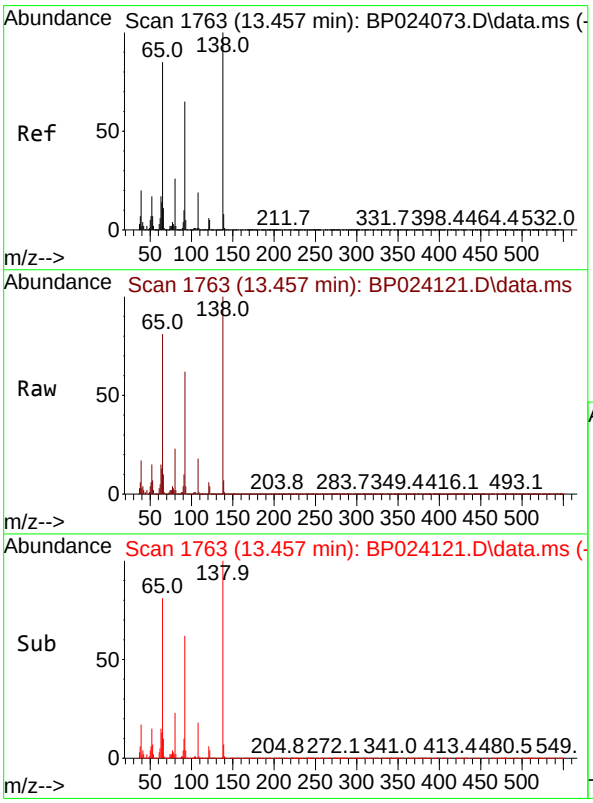
Ion	Ratio	Lower	Upper
162	100		
127	39.2	30.7	46.1
164	33.0	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

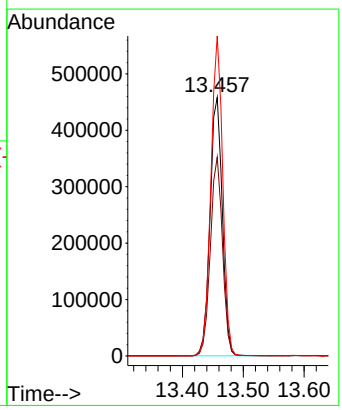
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

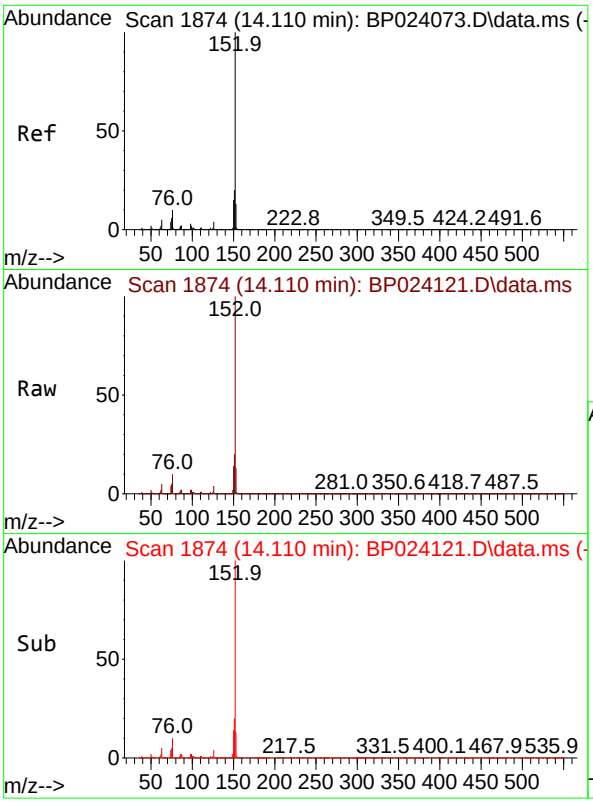


#48
2-Nitroaniline
Concen: 50.774 ng
RT: 13.457 min Scan# 1763
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 65 Resp: 642995

Ion	Ratio	Lower	Upper
65	100		
92	76.9	61.7	92.5
138	123.8	94.6	142.0

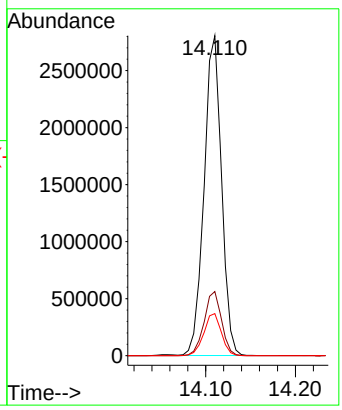




#49
Acenaphthylene
Concen: 47.938 ng
RT: 14.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:152 Resp: 378640

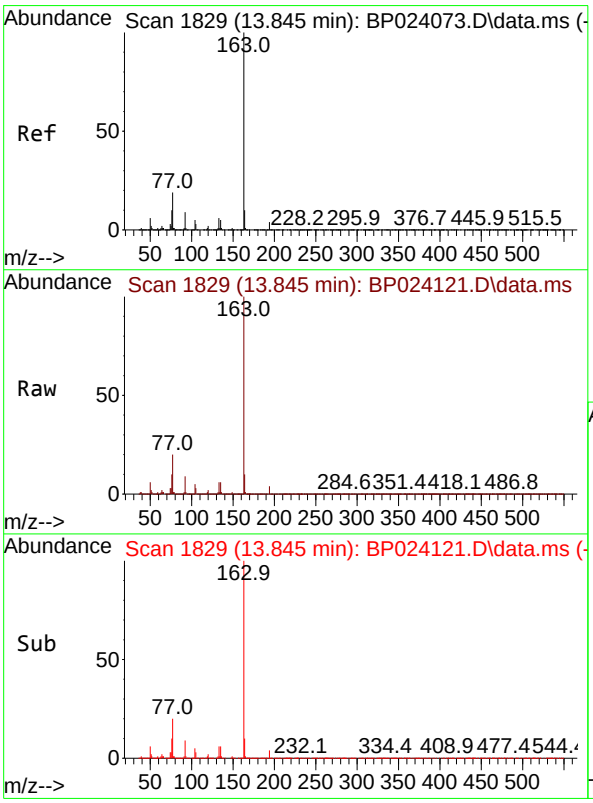
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.1	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

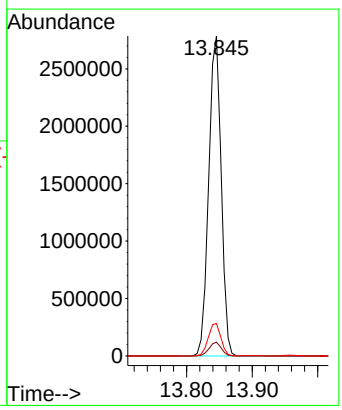
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

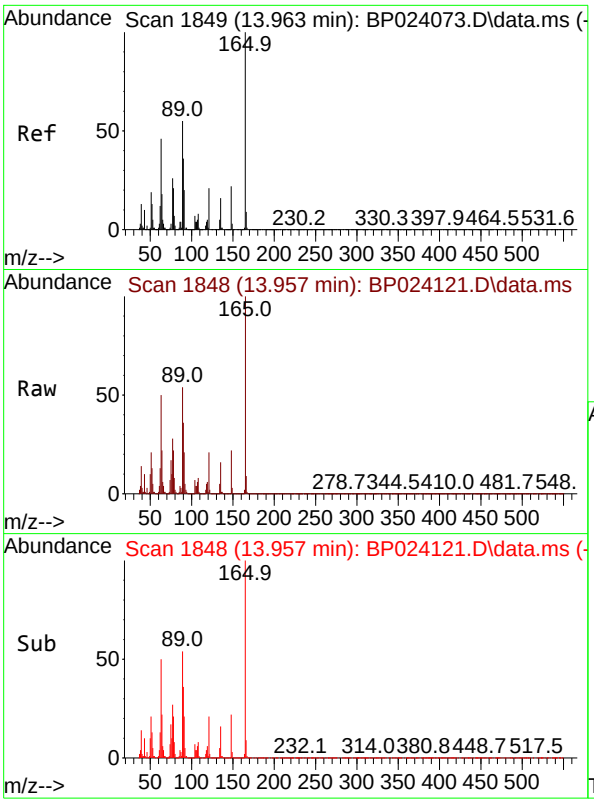


#50
Dimethylphthalate
Concen: 57.263 ng
RT: 13.845 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:163 Resp: 3686389

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.1	8.1	12.1

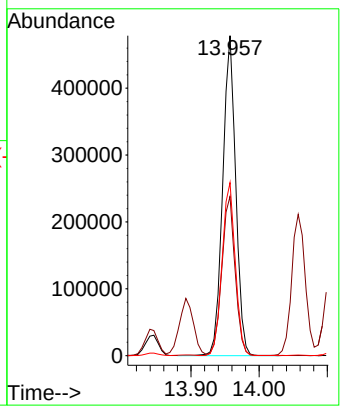




#51
2,6-Dinitrotoluene
Concen: 48.448 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:165 Resp: 63533

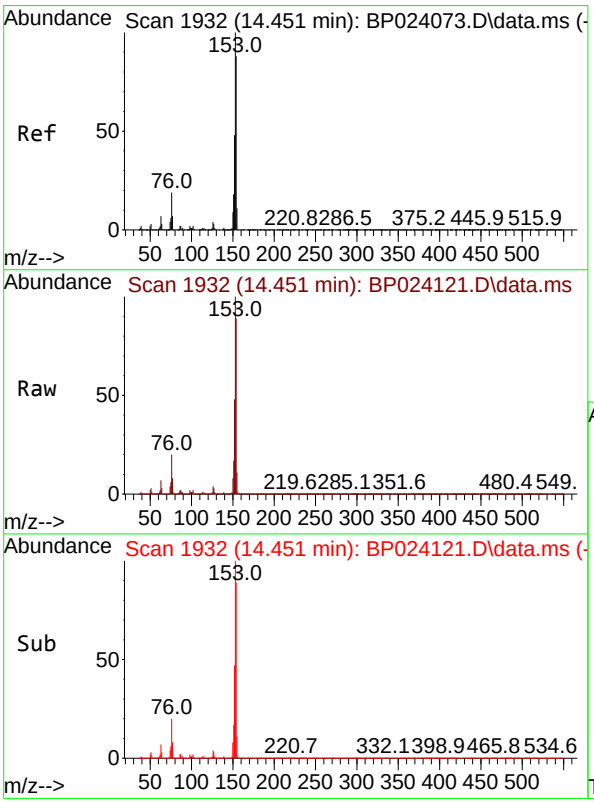
Ion	Ratio	Lower	Upper
165	100		
63	49.8	40.1	60.1
89	54.1	44.2	66.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

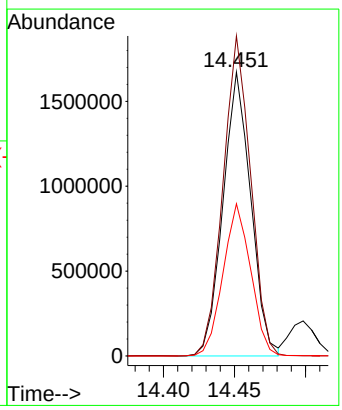
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

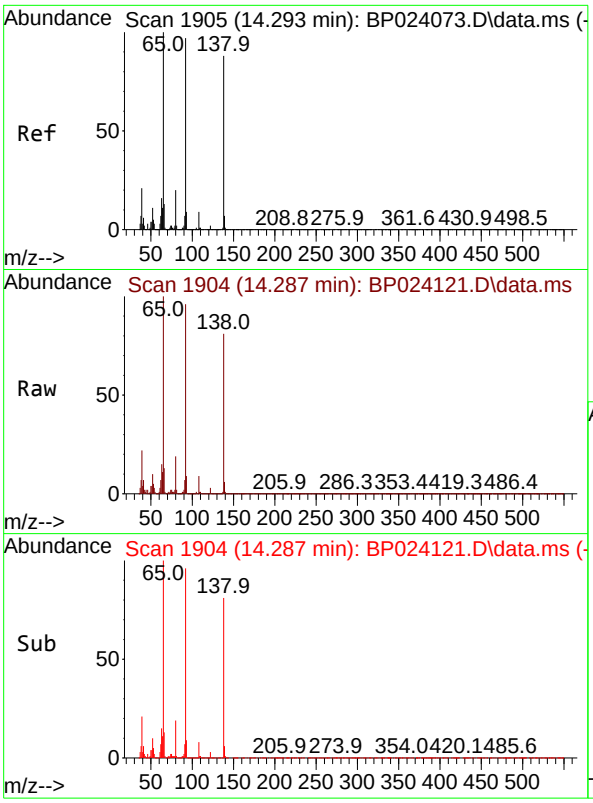


#52
Acenaphthene
Concen: 44.722 ng
RT: 14.451 min Scan# 1932
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:154 Resp: 2274749

Ion	Ratio	Lower	Upper
154	100		
153	112.8	90.6	135.8
152	53.6	43.6	65.4

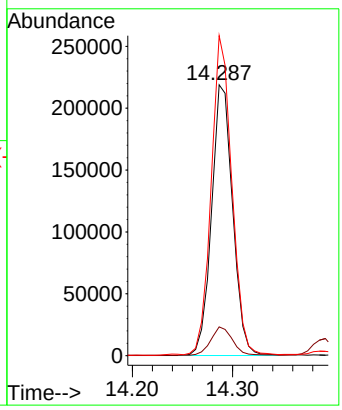




#53
3-Nitroaniline
Concen: 22.871 ng
RT: 14.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:138 Resp: 32004

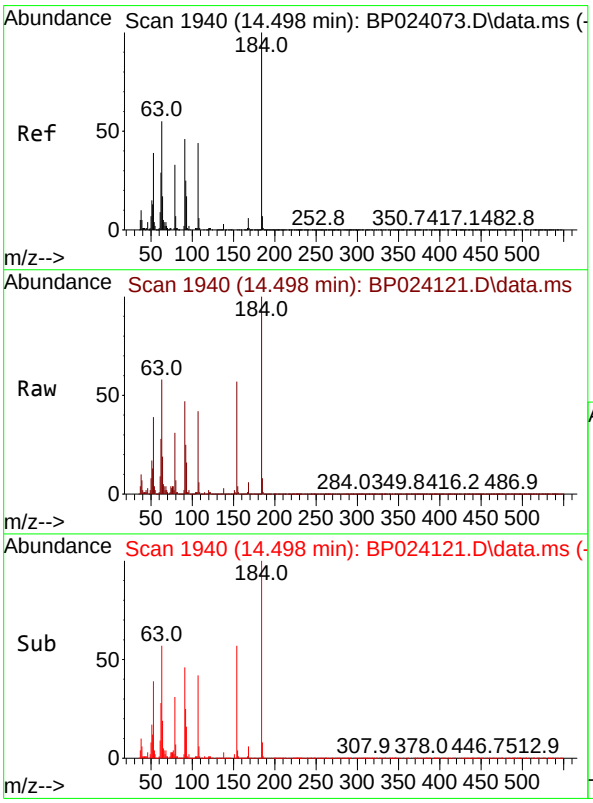
Ion	Ratio	Lower	Upper
138	100		
108	10.6	7.8	11.8
92	118.2	88.4	132.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

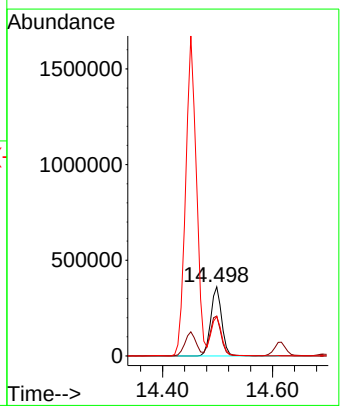
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

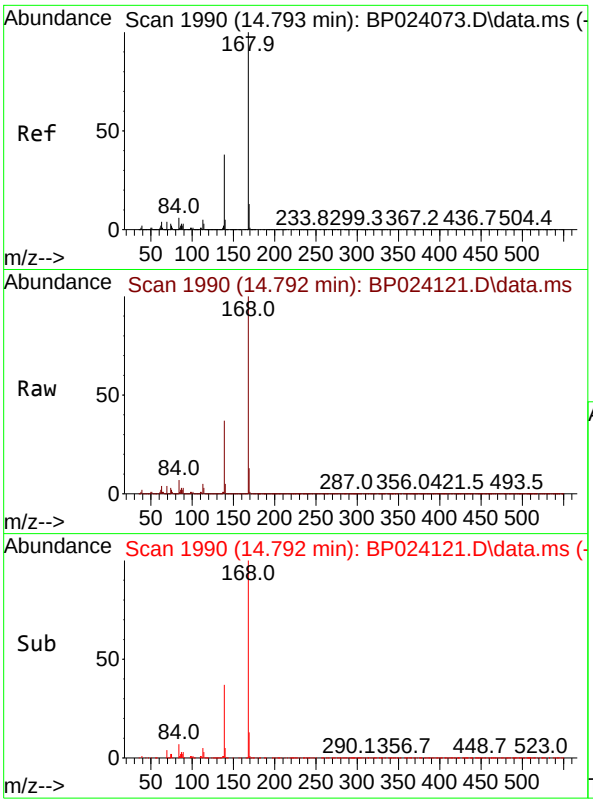


#54
2,4-Dinitrophenol
Concen: 59.617 ng
RT: 14.498 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:184 Resp: 496449

Ion	Ratio	Lower	Upper
184	100		
63	57.6	49.4	74.0
154	57.2	49.2	73.8

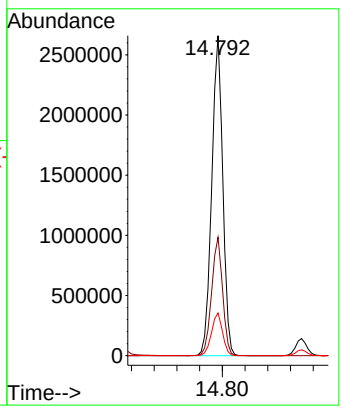




#55
Dibenzofuran
Concen: 43.043 ng
RT: 14.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:168 Resp: 355657

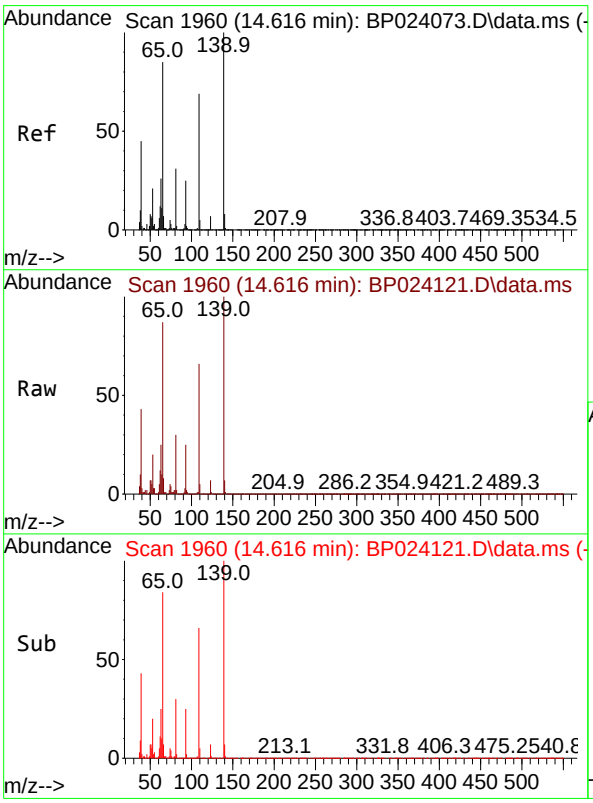
Ion	Ratio	Lower	Upper
168	100		
139	37.0	30.2	45.2
169	13.3	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

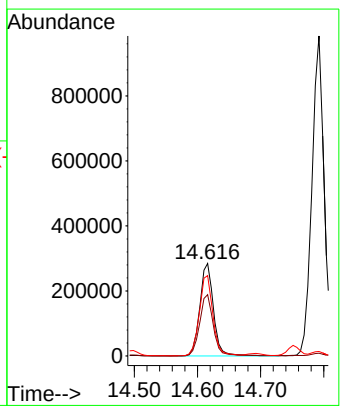
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

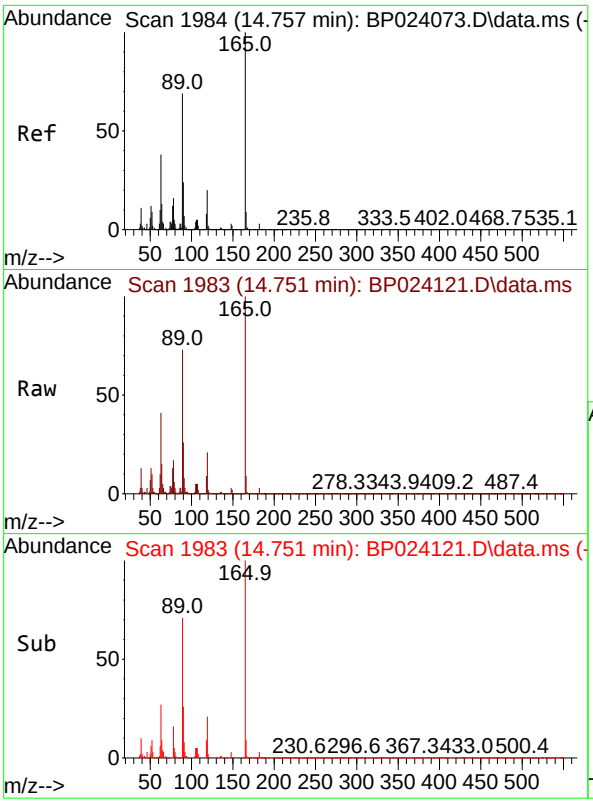


#56
4-Nitrophenol
Concen: 35.275 ng
RT: 14.616 min Scan# 1960
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:139 Resp: 426395

Ion	Ratio	Lower	Upper
139	100		
109	66.2	49.2	89.2
65	86.8	65.4	105.4

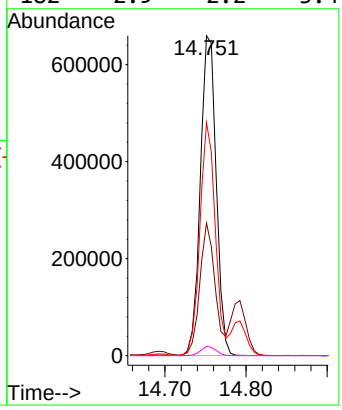




#57
2,4-Dinitrotoluene
Concen: 52.413 ng
RT: 14.751 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:165 Resp: 89287

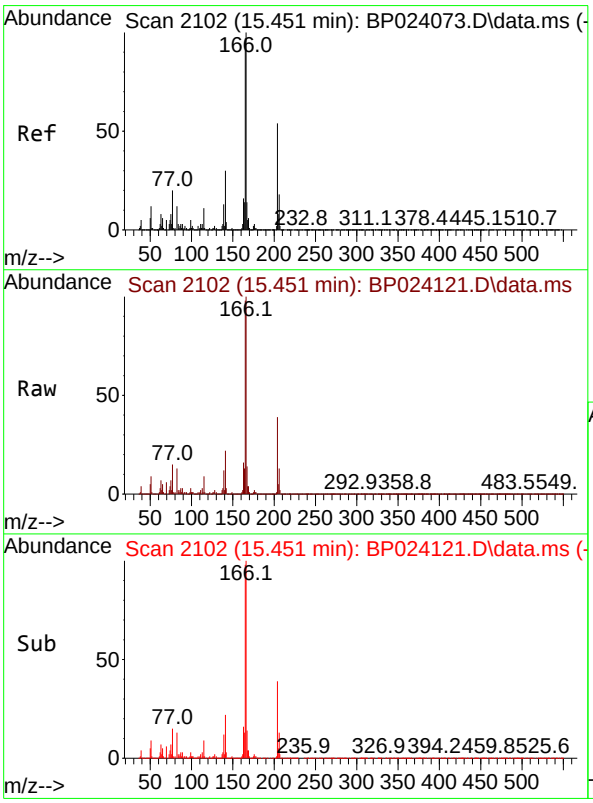
Ion	Ratio	Lower	Upper
165	100		
63	41.5	30.4	45.6
89	72.9	54.8	82.2
182	2.9	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

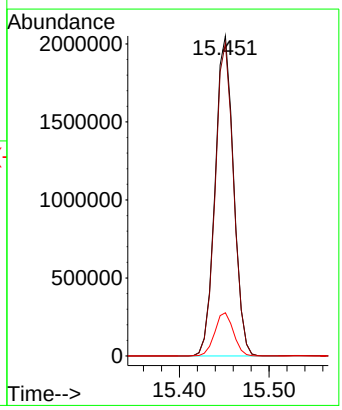
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

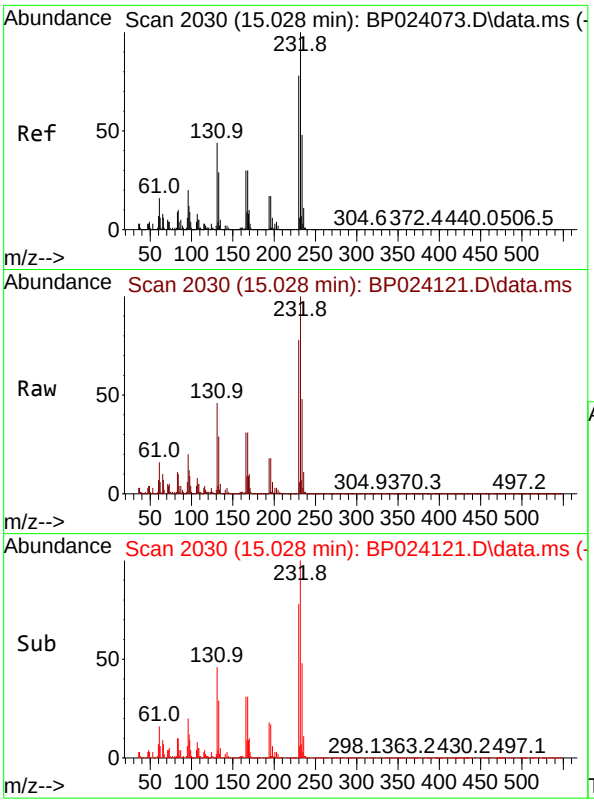


#58
Fluorene
Concen: 45.322 ng
RT: 15.451 min Scan# 2102
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:166 Resp: 2924644

Ion	Ratio	Lower	Upper
166	100		
165	97.8	77.5	116.3
167	13.5	10.9	16.3

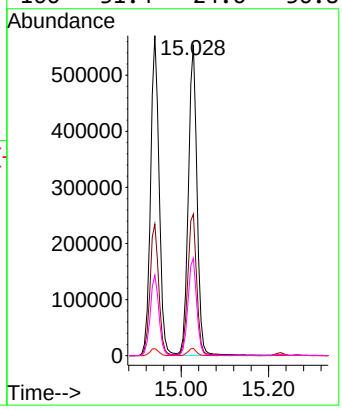




#59
2,3,4,6-Tetrachlorophenol
Concen: 46.909 ng
RT: 15.028 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:232 Resp: 76117

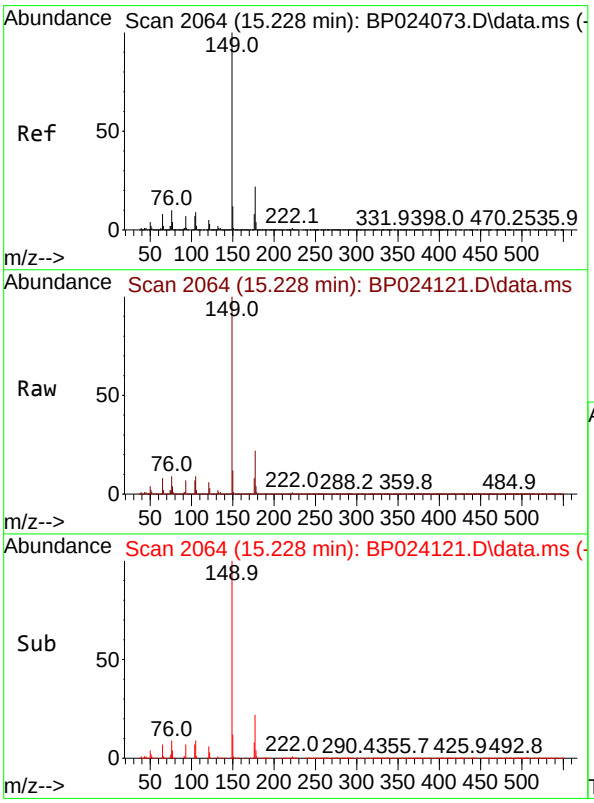
Ion	Ratio	Lower	Upper
232	100		
131	46.6	37.3	55.9
130	2.3	1.9	2.9
166	31.4	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

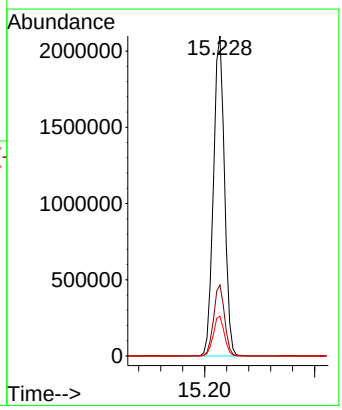
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

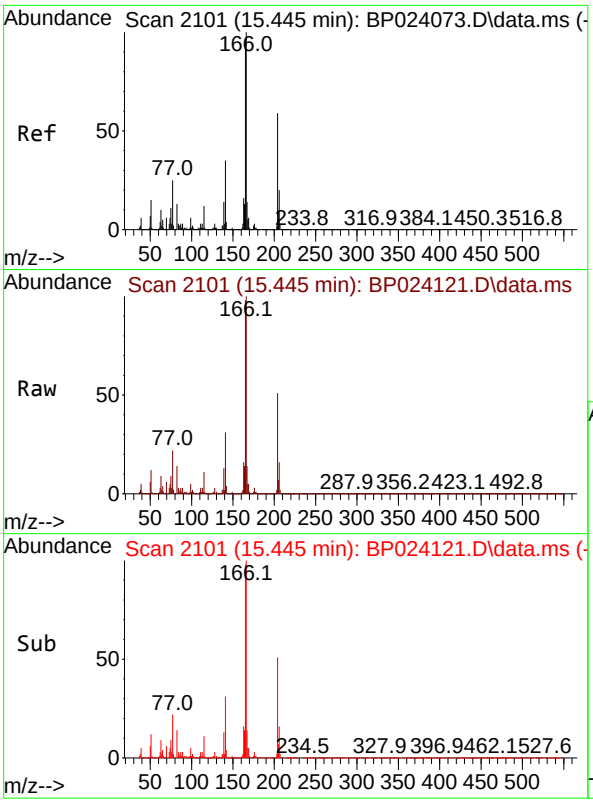


#60
Diethylphthalate
Concen: 45.932 ng
RT: 15.228 min Scan# 2064
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:149 Resp: 2935352

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.9	26.9
150	12.4	9.8	14.6





#61
4-Chlorophenyl-phenylether
Concen: 44.066 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

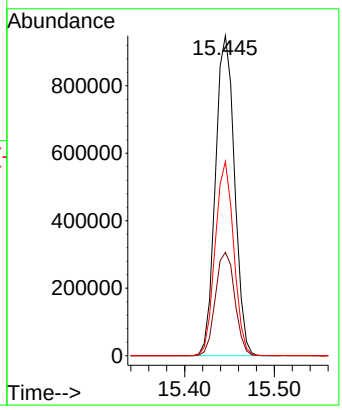
Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

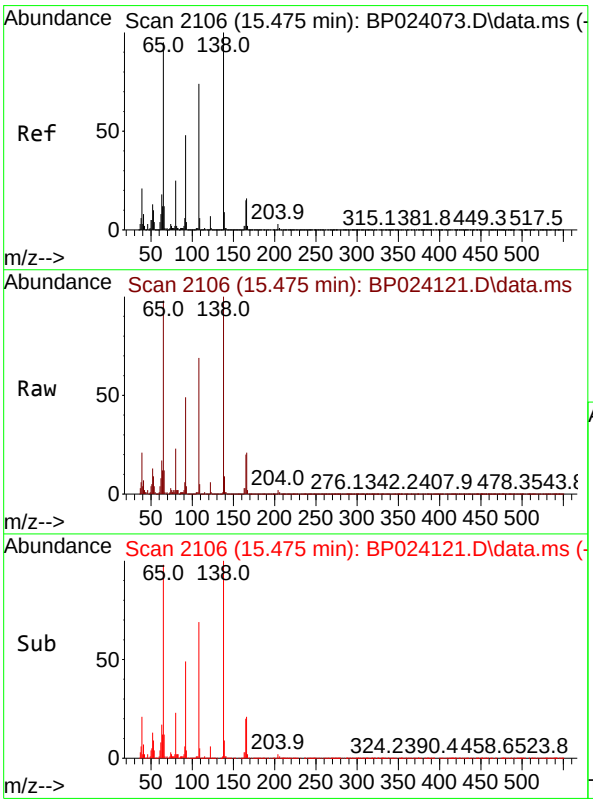
Tgt Ion:204 Resp: 139967

Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.6	39.8
141	60.7	47.8	71.6

Manual Integrations
APPROVED

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

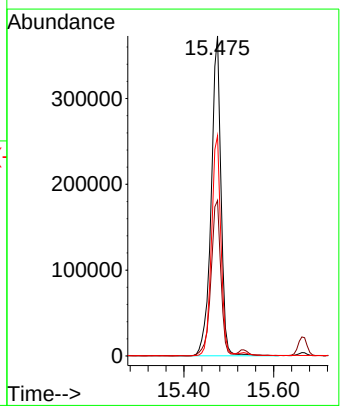


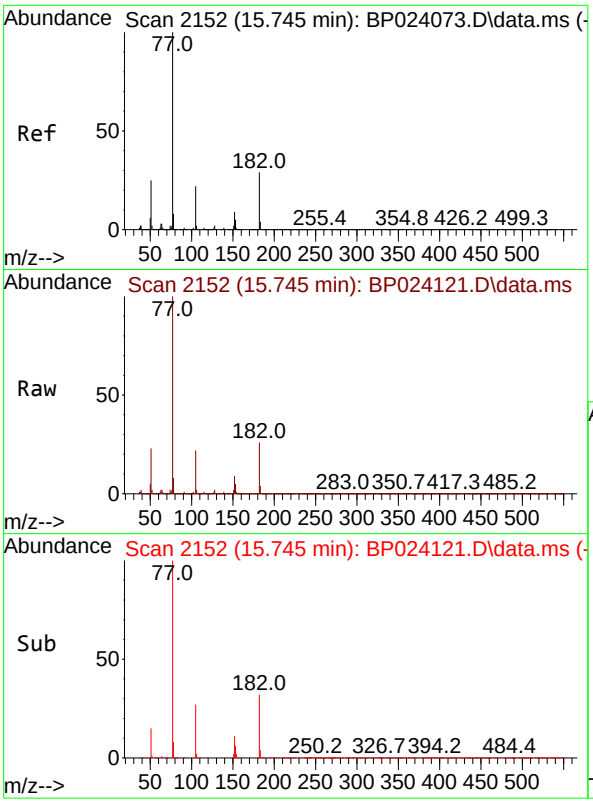


#62
4-Nitroaniline
Concen: 35.085 ng
RT: 15.475 min Scan# 2106
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:138 Resp: 565516

Ion	Ratio	Lower	Upper
138	100		
92	48.6	28.3	68.3
108	68.8	54.0	94.0

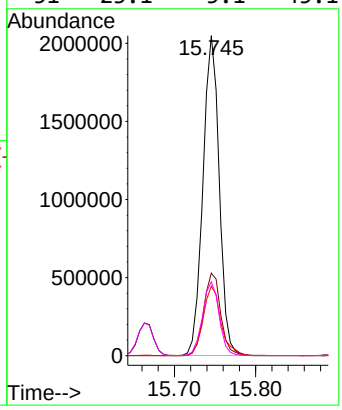




#63
Azobenzene
Concen: 47.536 ng
RT: 15.745 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion: 77 Resp: 284666

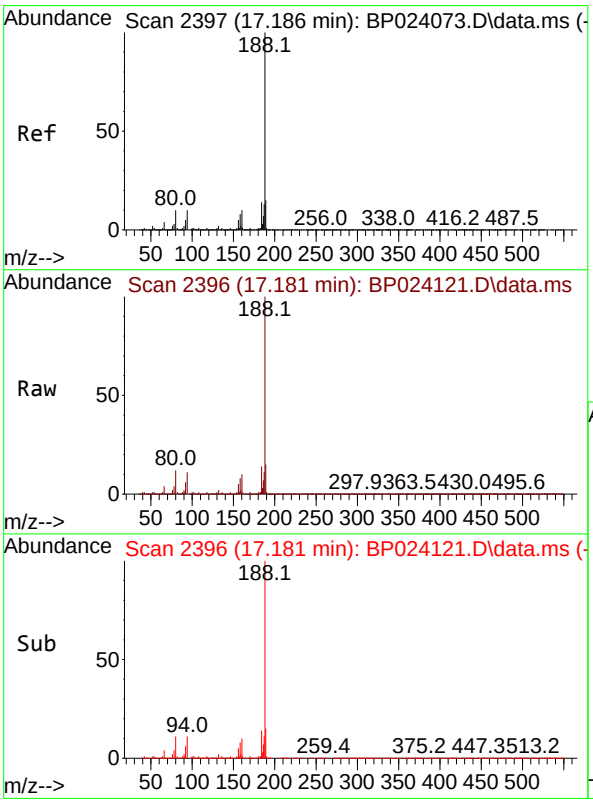
Ion	Ratio	Lower	Upper
77	100		
182	25.8	8.5	48.5
105	21.8	1.8	41.8
51	23.1	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

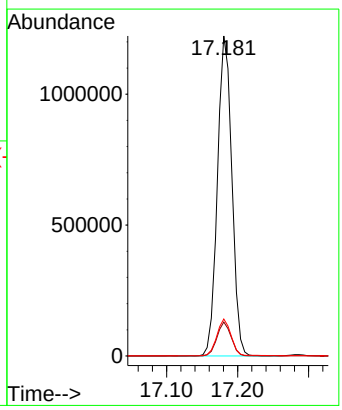
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

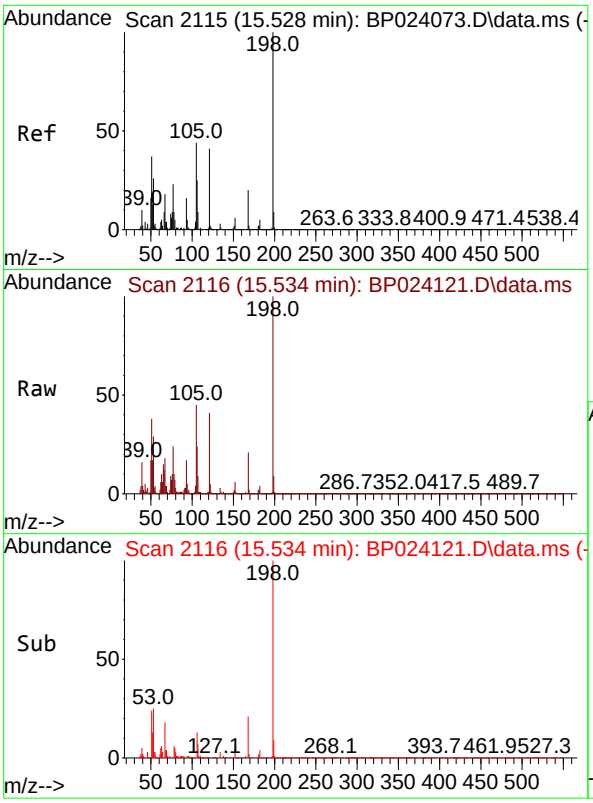


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.181 min Scan# 2396
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:188 Resp: 1719496

Ion	Ratio	Lower	Upper
188	100		
94	10.6	7.6	11.4
80	11.5	8.2	12.2





#65
4,6-Dinitro-2-methylphenol
Concen: 35.816 ng
RT: 15.534 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

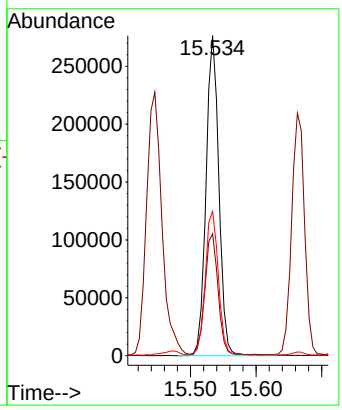
Tgt Ion:198 Resp: 37634

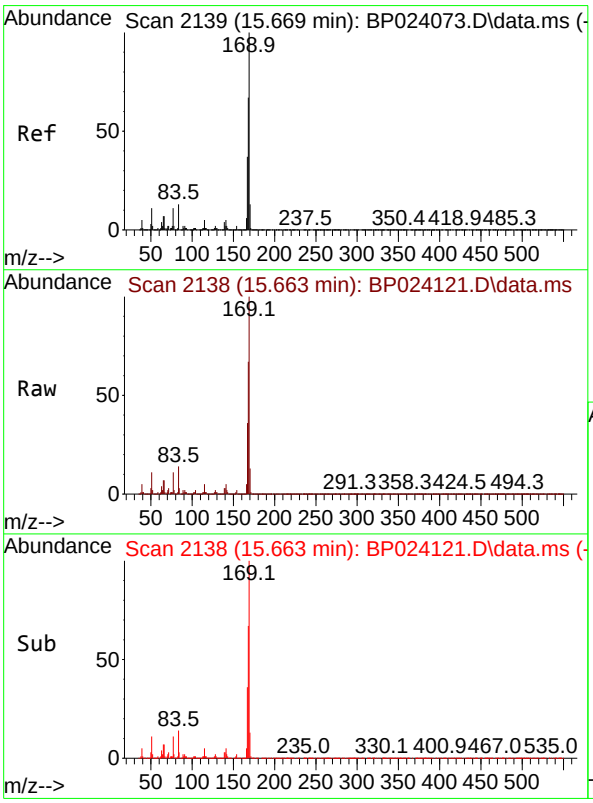
Ion	Ratio	Lower	Upper
198	100		
51	38.1	18.7	58.7
105	45.1	24.7	64.7

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

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

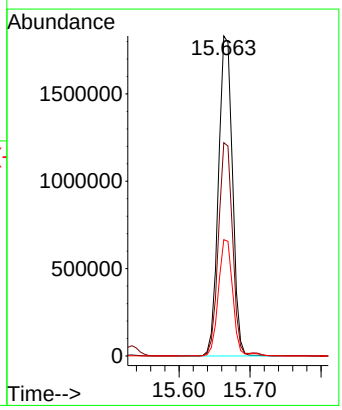


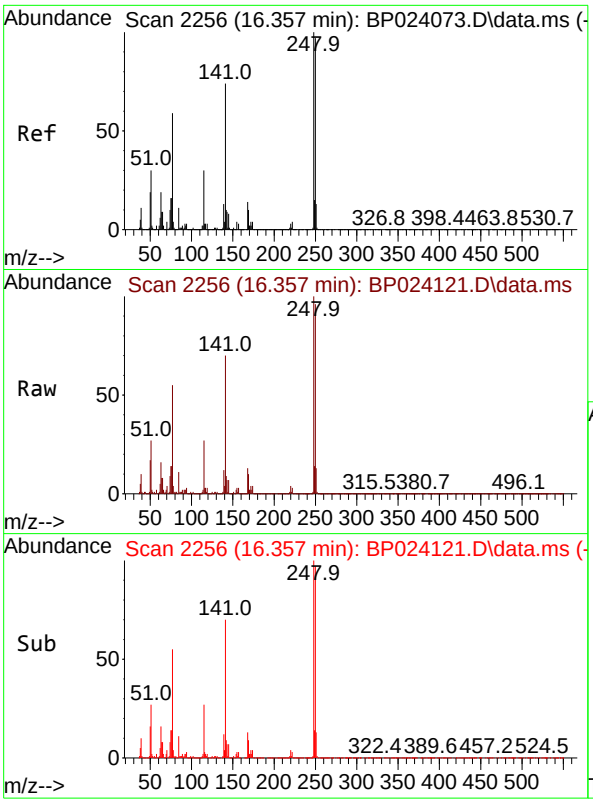


#66
n-Nitrosodiphenylamine
Concen: 46.615 ng
RT: 15.663 min Scan# 2138
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:169 Resp: 2499612

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.6	80.4
167	36.4	29.5	44.3

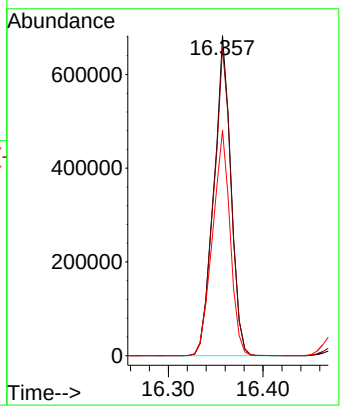




#67
4-Bromophenyl-phenylether
Concen: 44.445 ng
RT: 16.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:248 Resp: 85819

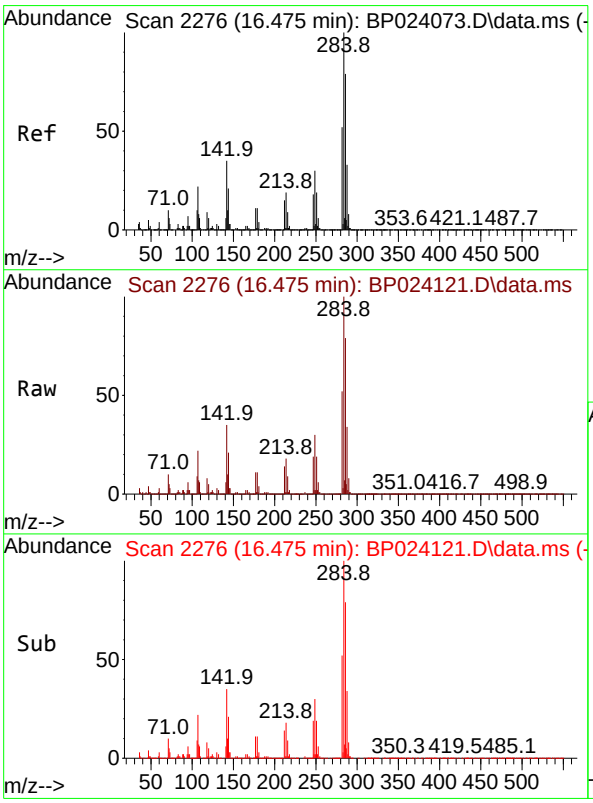
Ion	Ratio	Lower	Upper
248	100		
250	96.5	77.9	116.9
141	70.4	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

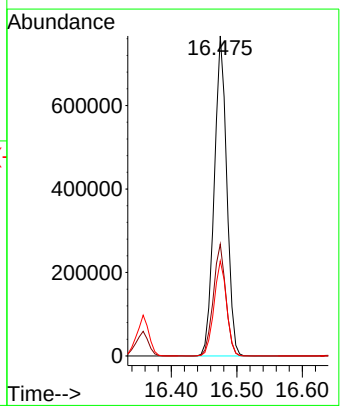
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

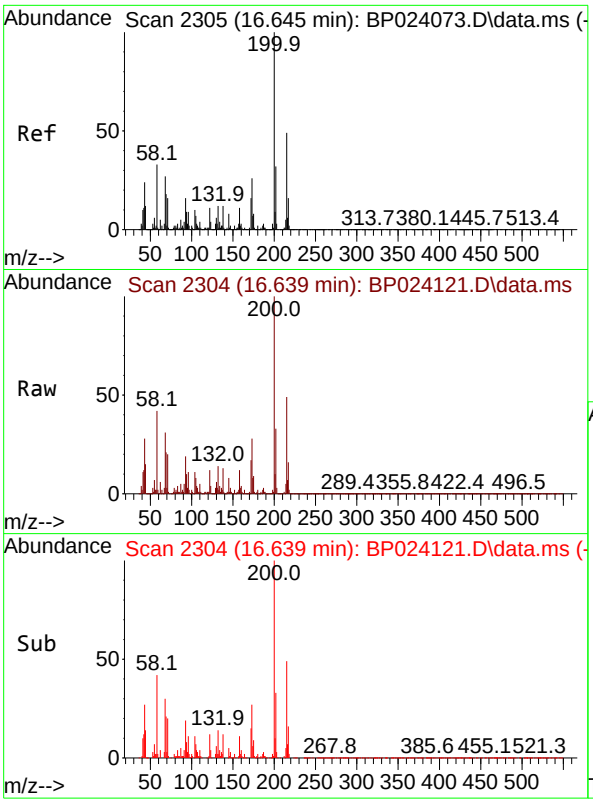


#68
Hexachlorobenzene
Concen: 44.582 ng
RT: 16.475 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:284 Resp: 1012929

Ion	Ratio	Lower	Upper
284	100		
142	35.0	27.7	41.5
249	29.7	23.8	35.6

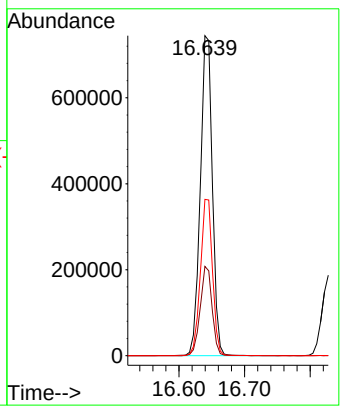




#69
Atrazine
Concen: 69.204 ng
RT: 16.639 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:200 Resp: 95231

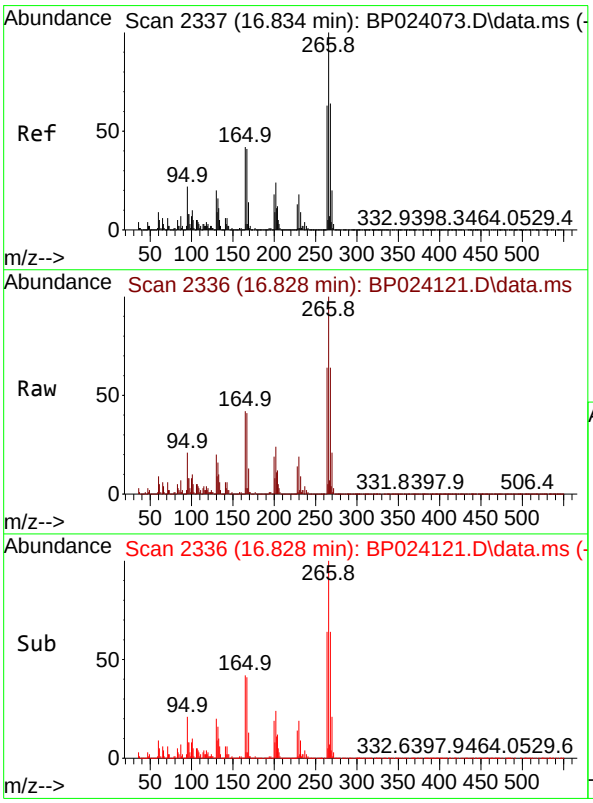
Ion	Ratio	Lower	Upper
200	100		
173	27.9	5.7	45.7
215	48.9	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

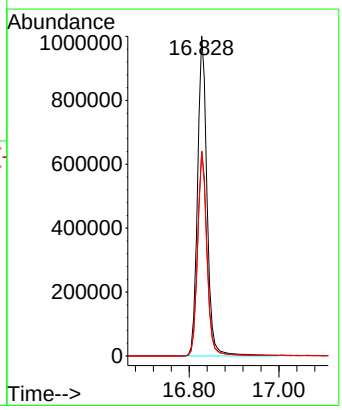
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

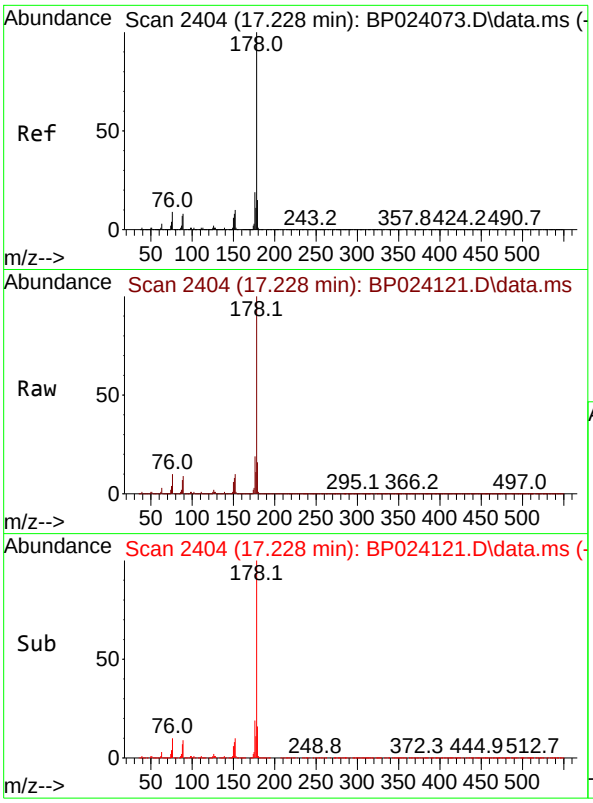


#70
Pentachlorophenol
Concen: 99.067 ng
RT: 16.828 min Scan# 2336
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:266 Resp: 1461912

Ion	Ratio	Lower	Upper
266	100		
268	64.0	51.3	76.9
264	64.0	50.5	75.7

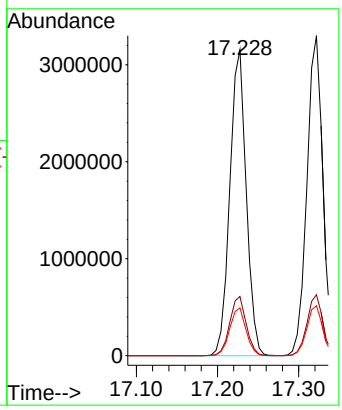




#71
Phenanthrene
Concen: 45.575 ng
RT: 17.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:178 Resp: 441819

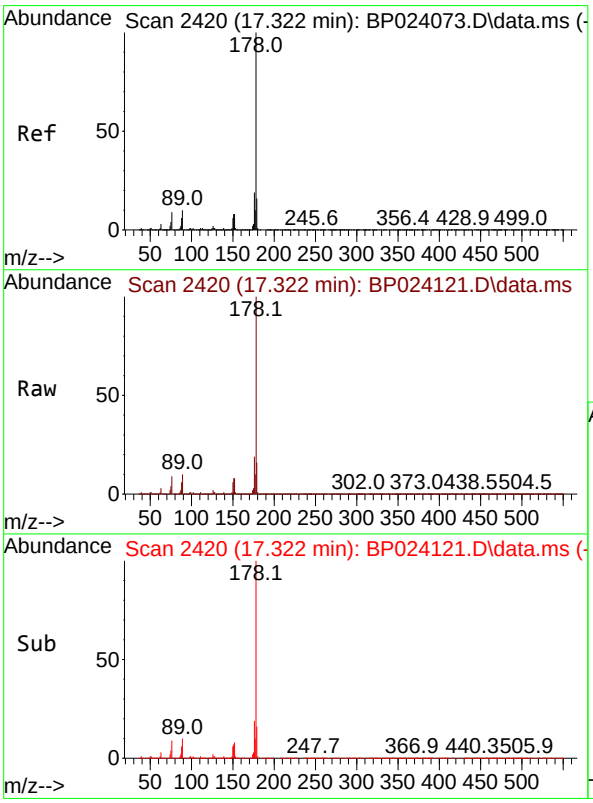
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.7	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

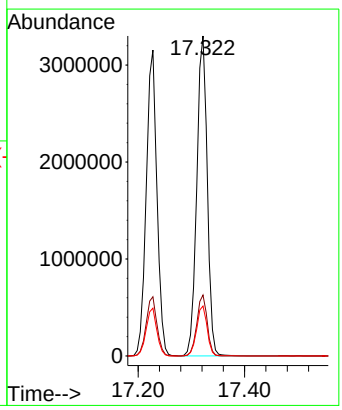
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

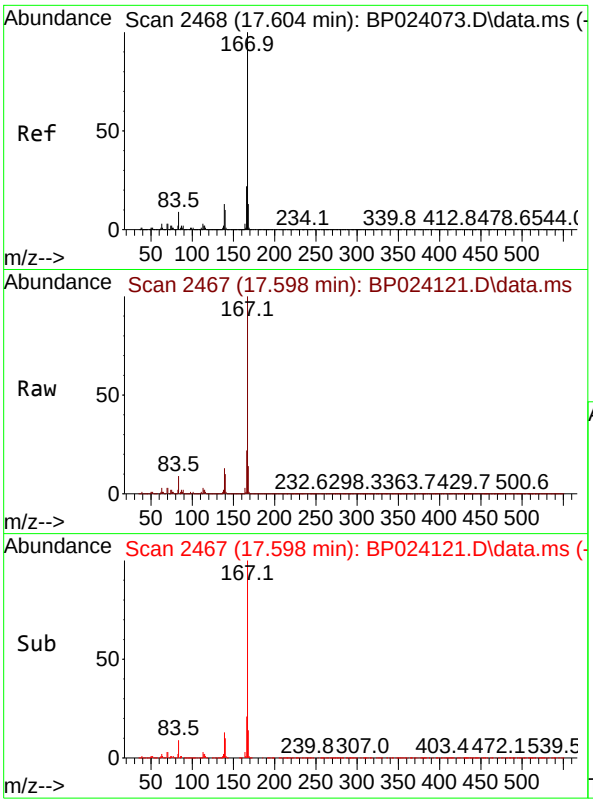


#72
Anthracene
Concen: 48.390 ng
RT: 17.322 min Scan# 2420
Delta R.T. 0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:178 Resp: 4495423

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.6	12.6	19.0

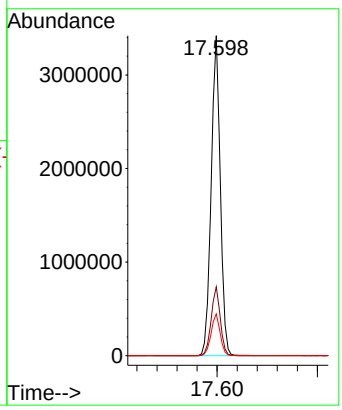




#73
Carbazole
Concen: 48.688 ng
RT: 17.598 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:167 Resp: 430950

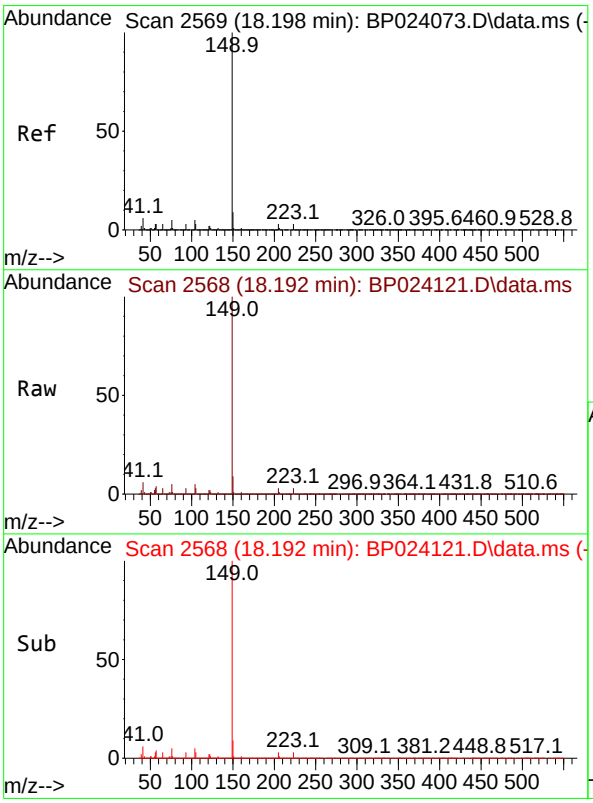
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.3	25.9
139	13.1	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

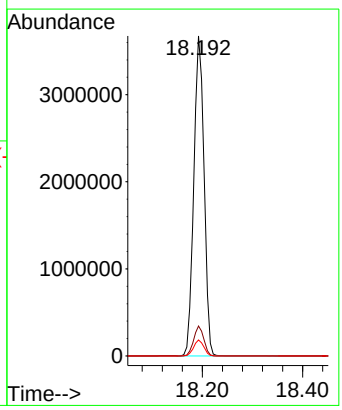
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

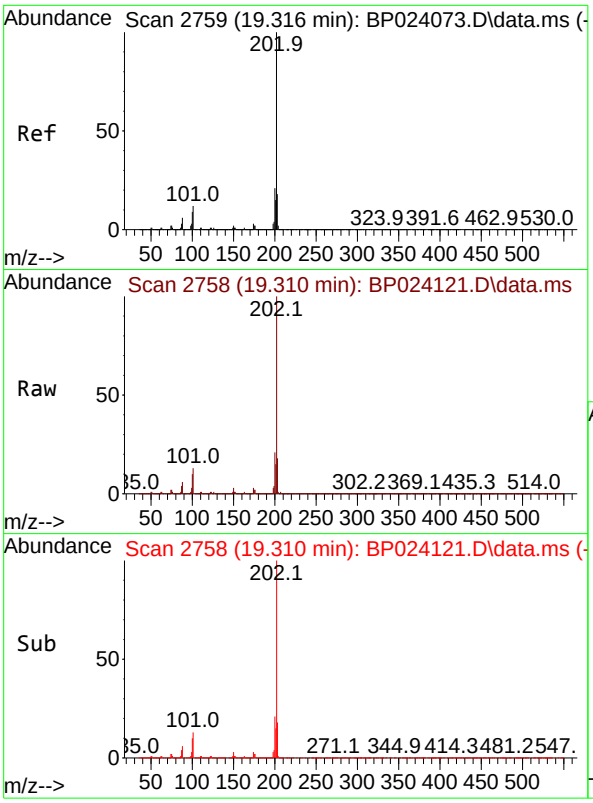


#74
Di-n-butylphthalate
Concen: 50.283 ng
RT: 18.192 min Scan# 2568
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:149 Resp: 5193252

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.0	4.2	6.2





#75
Fluoranthene
Concen: 46.824 ng
RT: 19.310 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

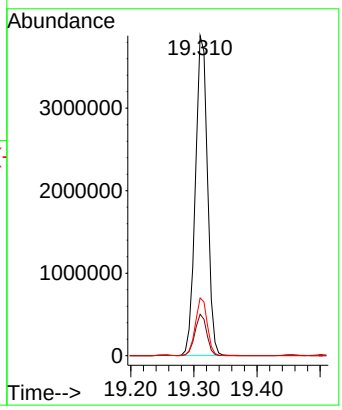
Tgt Ion:202 Resp: 513431

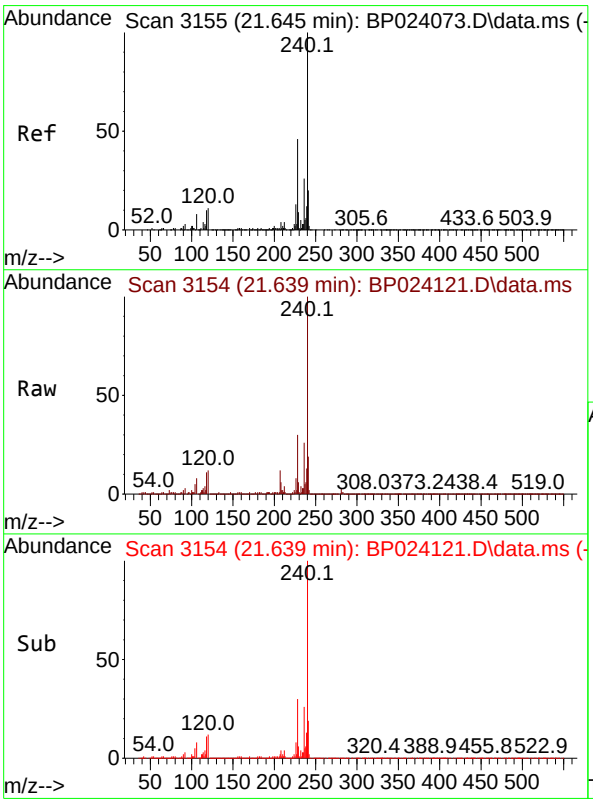
Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	31.9
203	18.0	0.0	37.7

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

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

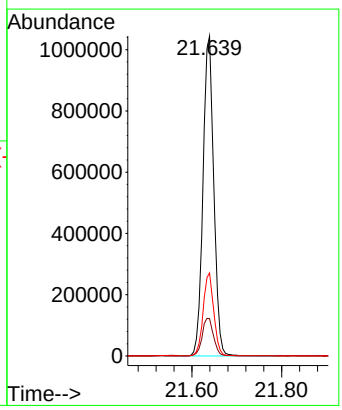


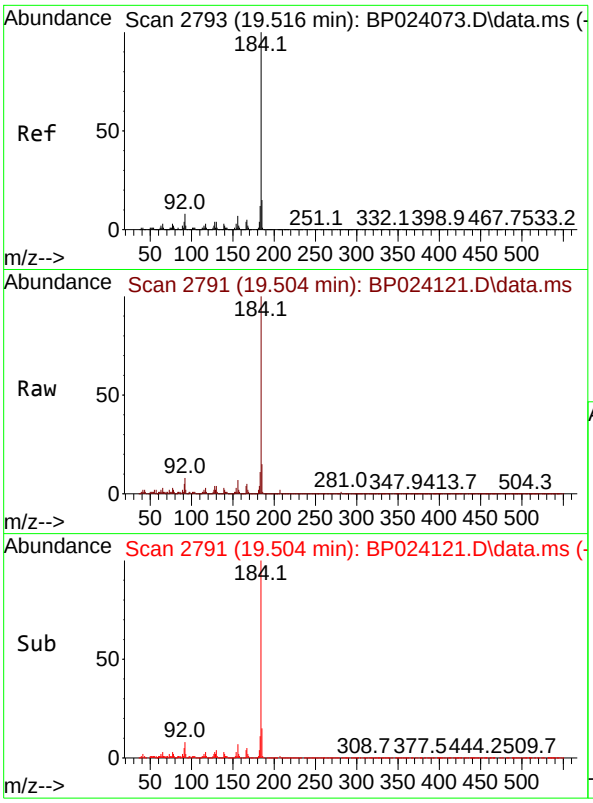


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.639 min Scan# 3154
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:240 Resp: 1738985

Ion	Ratio	Lower	Upper
240	100		
120	11.6	8.9	13.3
236	25.9	20.7	31.1

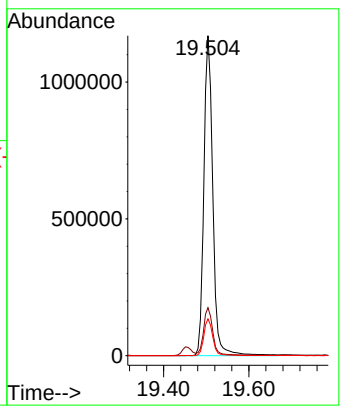




#77
Benzidine
Concen: 80.431 ng
RT: 19.504 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:184 Resp: 170436

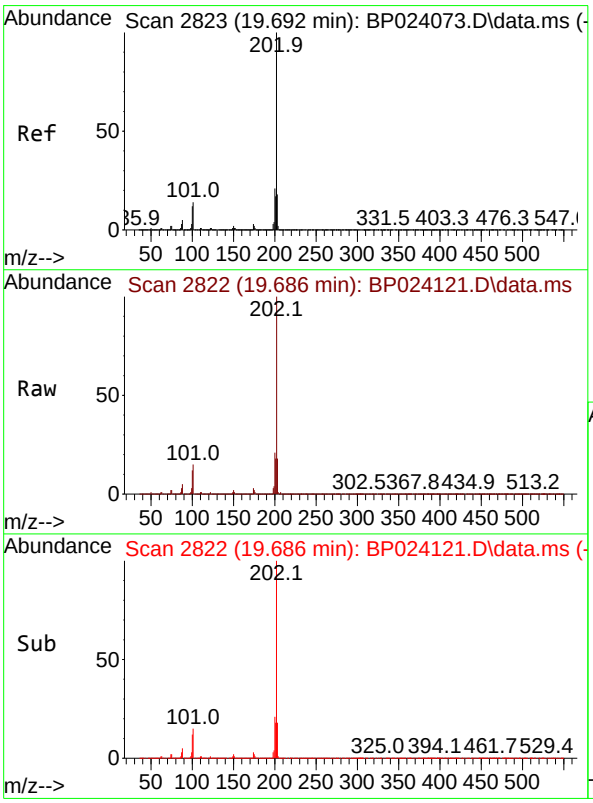
Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.8	17.8
183	11.5	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

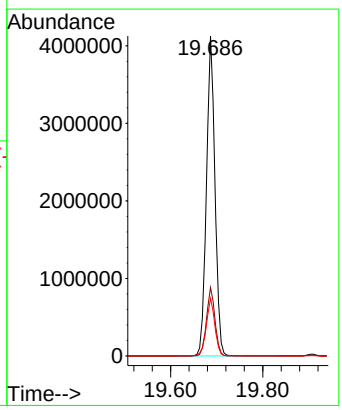
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

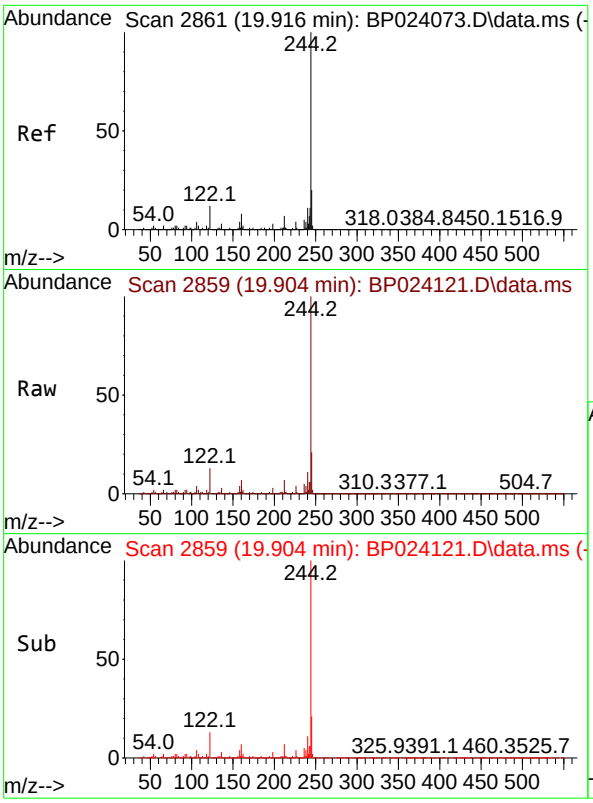


#78
Pyrene
Concen: 48.463 ng
RT: 19.686 min Scan# 2822
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:202 Resp: 5353144

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	18.0	14.4	21.6

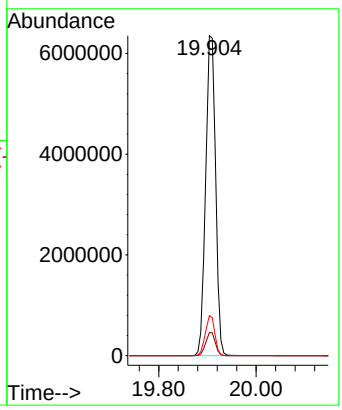




#79
Terphenyl-d14
Concen: 101.662 ng
RT: 19.904 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:244 Resp: 893441

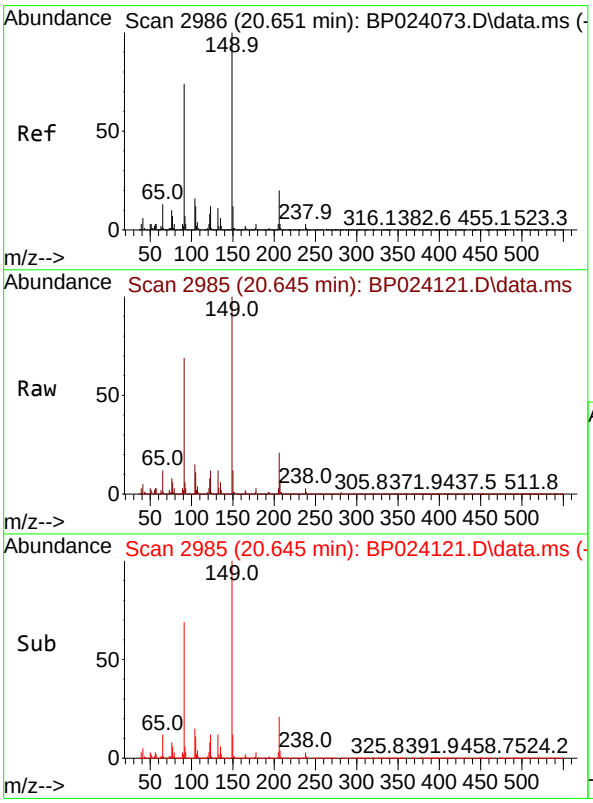
Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.9	8.9
122	12.5	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

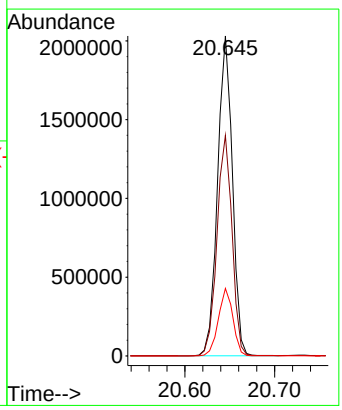
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

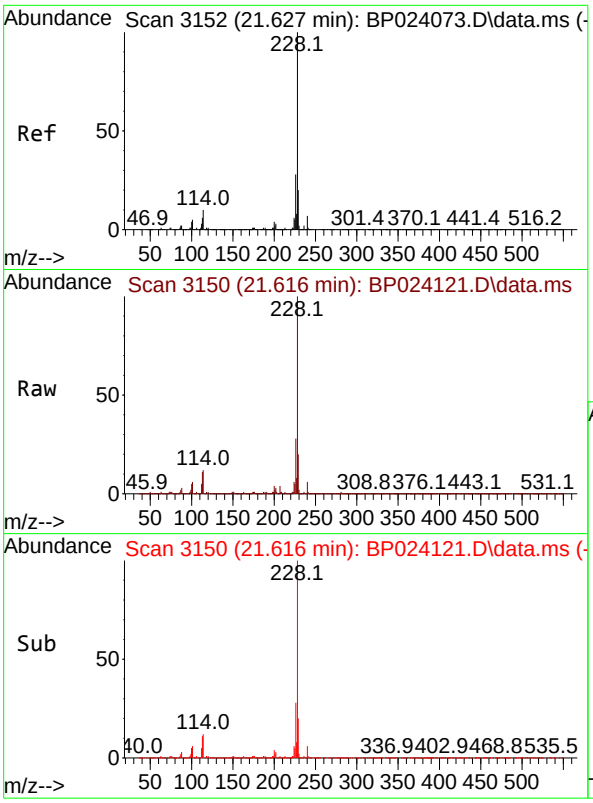


#80
Butylbenzylphthalate
Concen: 54.983 ng
RT: 20.645 min Scan# 2985
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:149 Resp: 2327290

Ion	Ratio	Lower	Upper
149	100		
91	68.9	59.4	89.0
206	21.1	16.2	24.2

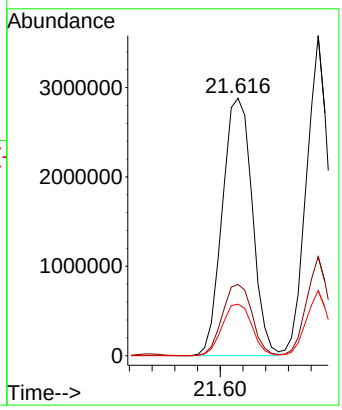




#81
Benzo(a)anthracene
Concen: 48.347 ng
RT: 21.616 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:228 Resp: 527190

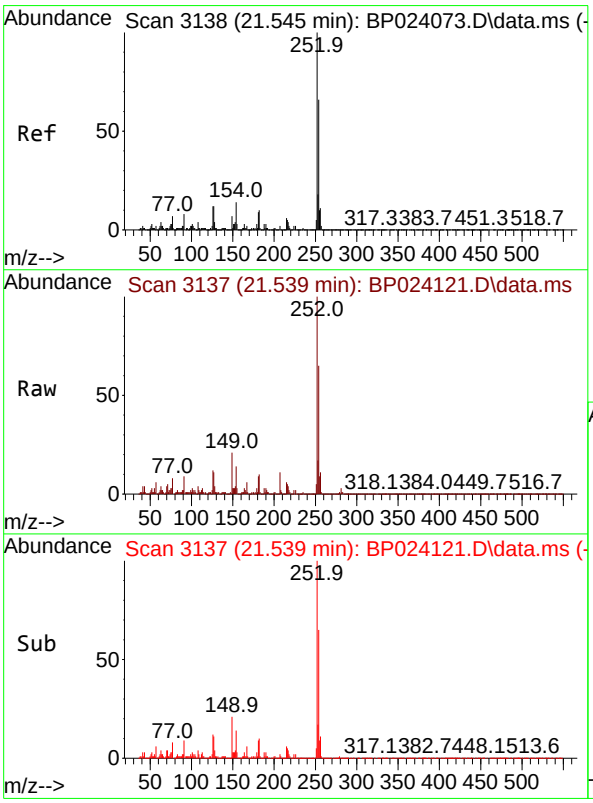
Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.4
229	20.0	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

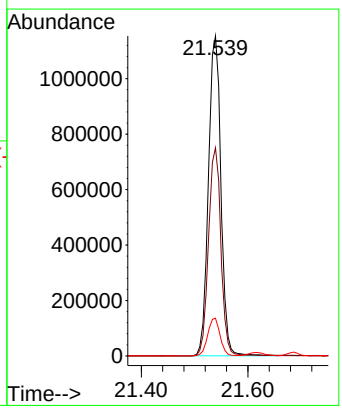
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

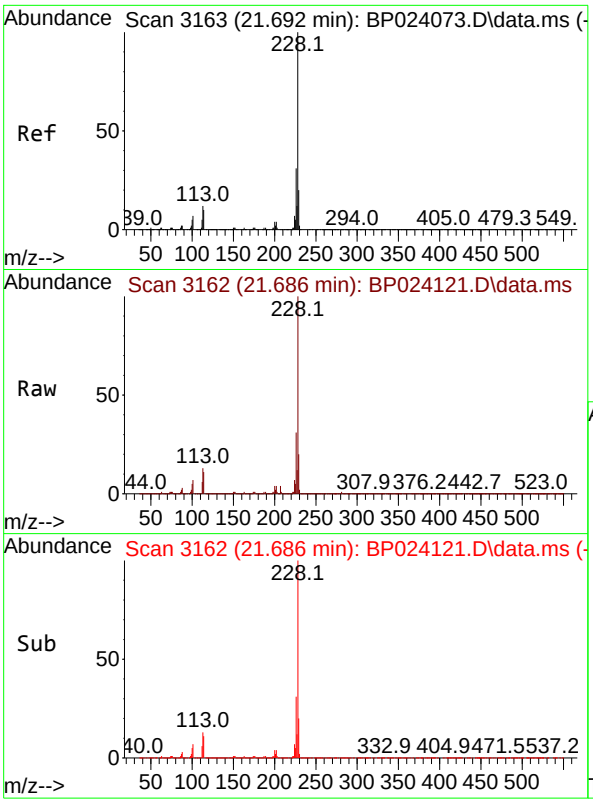


#82
3,3'-Dichlorobenzidine
Concen: 55.096 ng
RT: 21.539 min Scan# 3137
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:252 Resp: 1877345

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.4	78.6
126	11.8	9.6	14.4

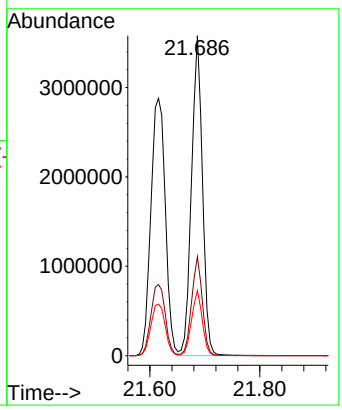




#83
Chrysene
Concen: 47.034 ng
RT: 21.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:228 Resp: 494555

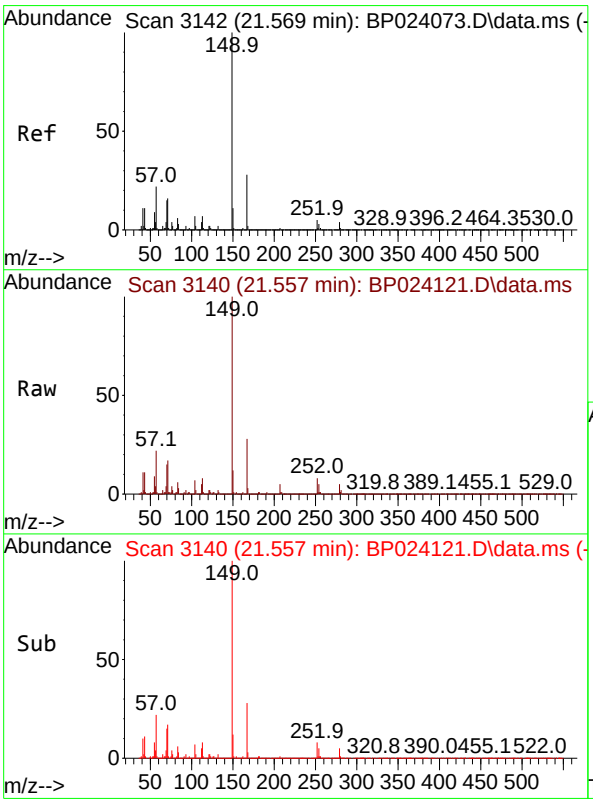
Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	20.4	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

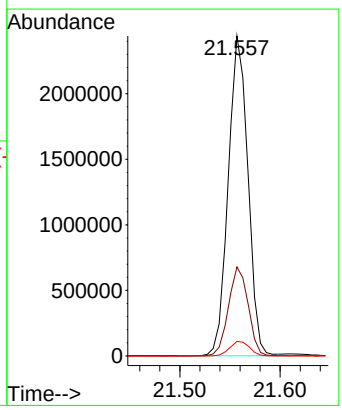
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

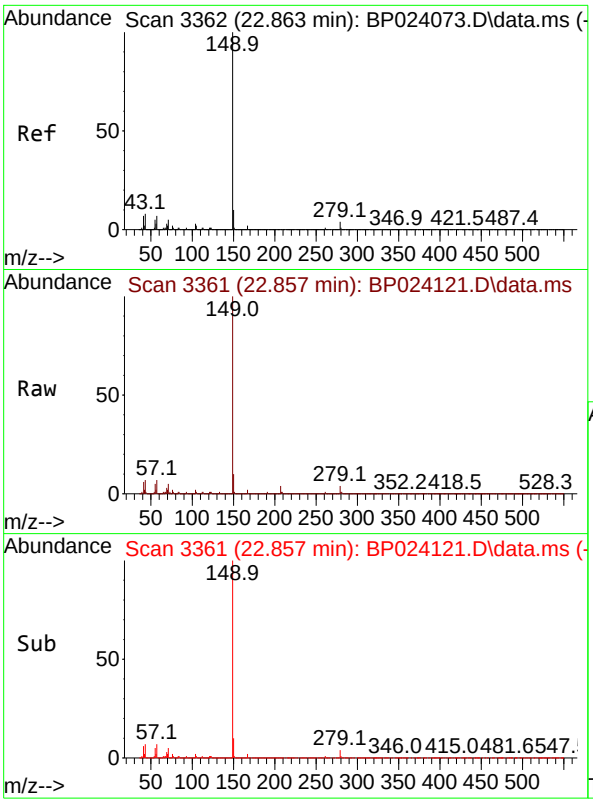


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.695 ng
RT: 21.557 min Scan# 3140
Delta R.T. -0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:149 Resp: 3318151

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.2
279	4.5	3.6	5.4

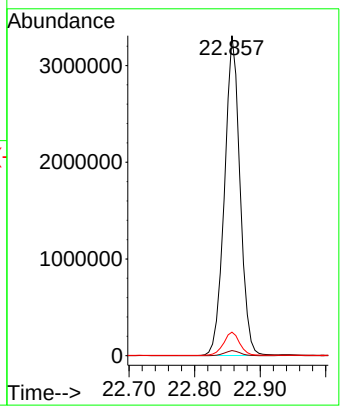




#85
Di-n-octyl phthalate
Concen: 52.899 ng
RT: 22.857 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:149 Resp: 542725

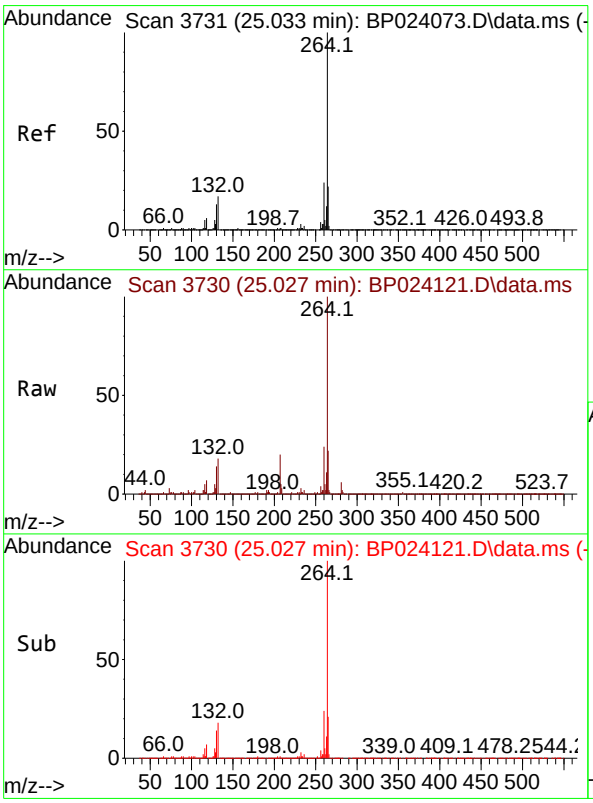
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.5	6.4	9.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

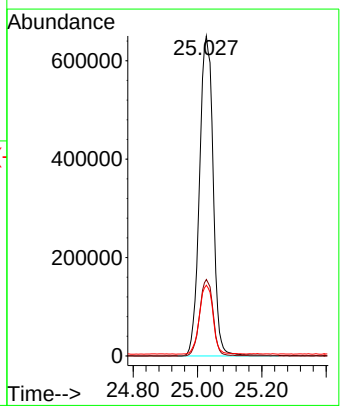
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

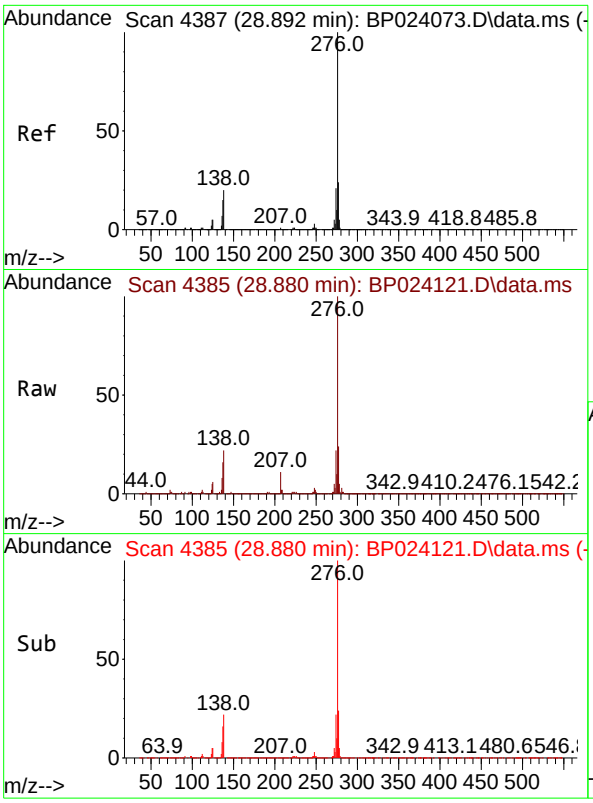


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.027 min Scan# 3730
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:264 Resp: 1915613

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.6
265	22.1	17.8	26.8

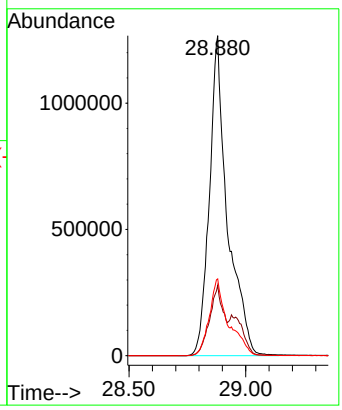




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.902 ng
RT: 28.880 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:276 Resp: 680055

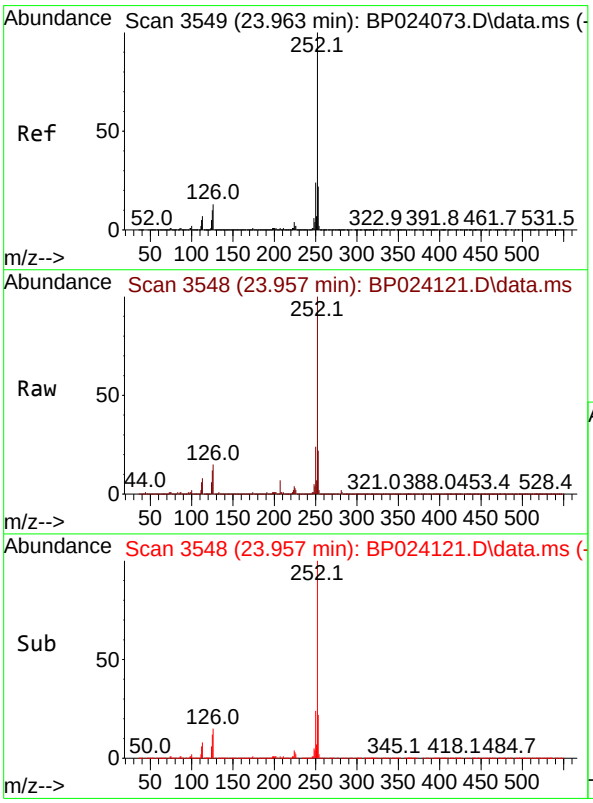
Ion	Ratio	Lower	Upper
276	100		
138	16.9	14.2	21.4
277	25.3	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

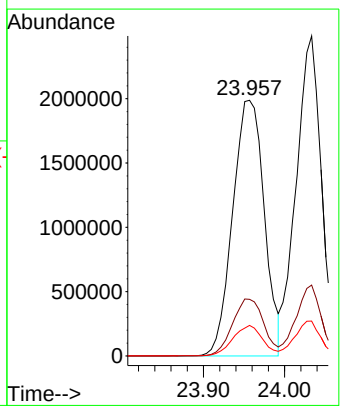
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

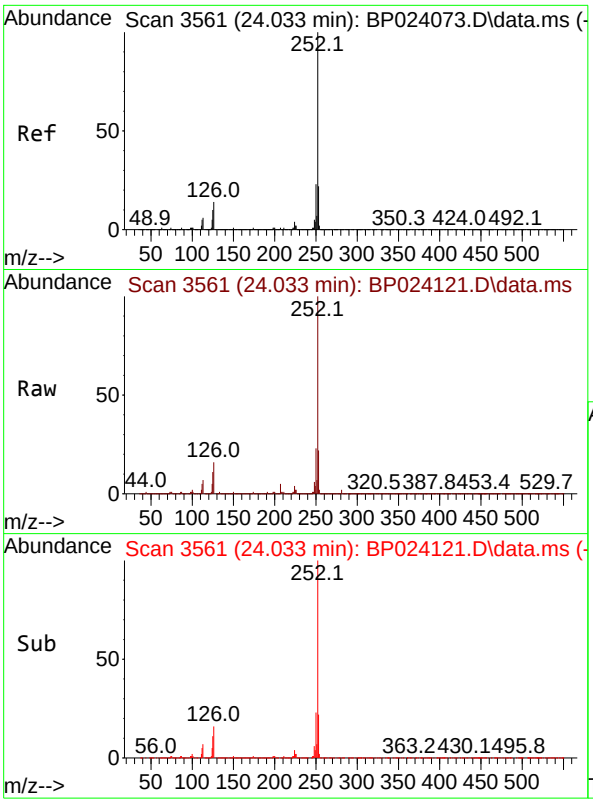


#88
Benzo(b)fluoranthene
Concen: 44.211 ng
RT: 23.957 min Scan# 3548
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:252 Resp: 5378136

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	11.9	8.4	12.6

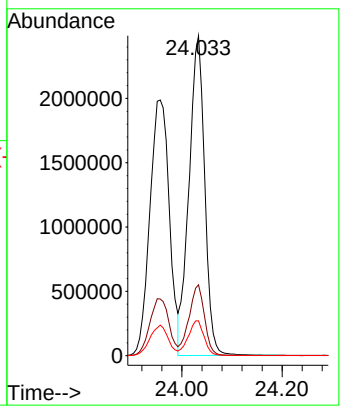




#89
Benzo(k)fluoranthene
Concen: 45.650 ng
RT: 24.033 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:252 Resp: 540518

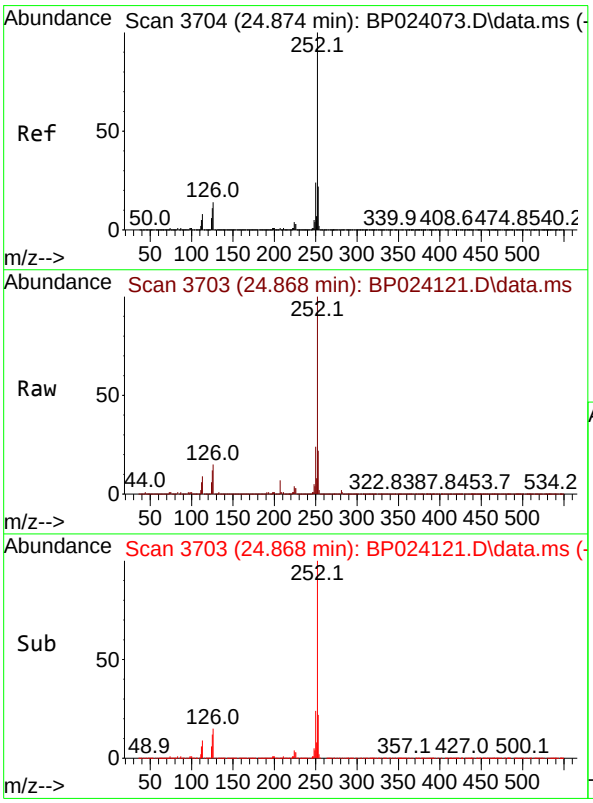
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.9	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations APPROVED

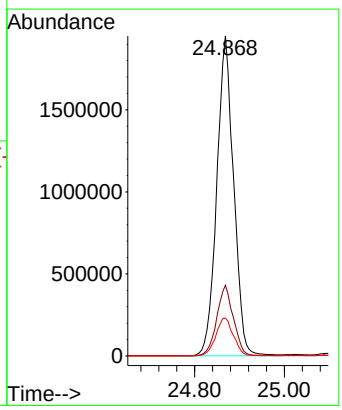
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

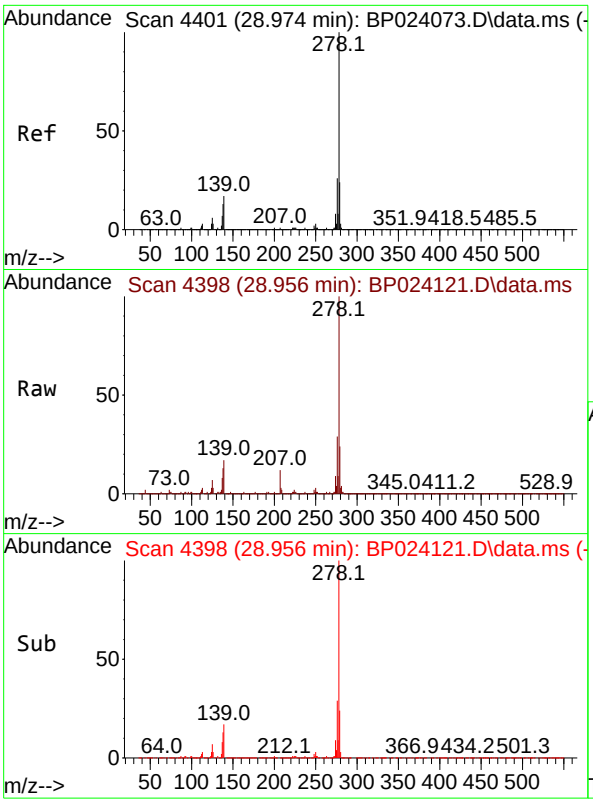


#90
Benzo(a)pyrene
Concen: 49.393 ng
RT: 24.868 min Scan# 3703
Delta R.T. -0.006 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:252 Resp: 5099207

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	11.9	8.8	13.2

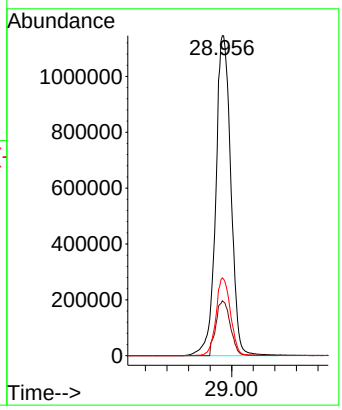




#91
Dibenzo(a,h)anthracene
Concen: 48.557 ng
RT: 28.956 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:278 Resp: 556397

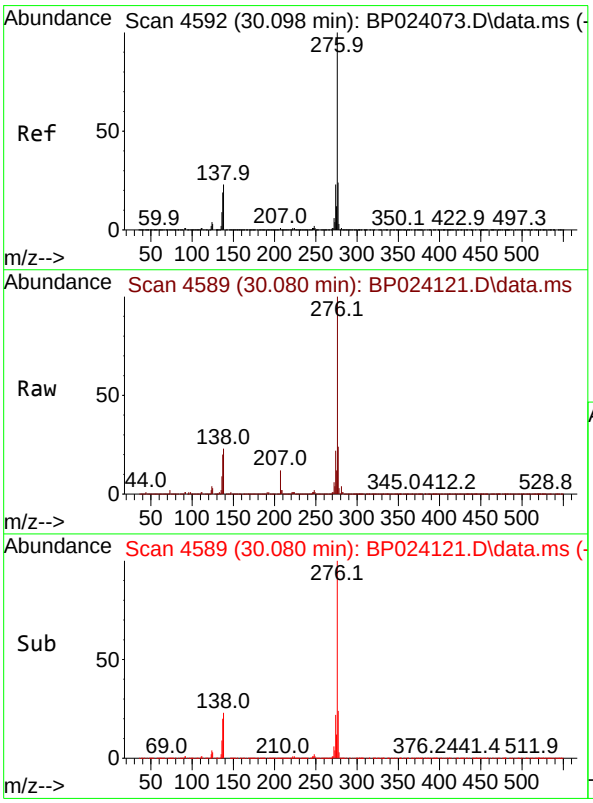
Ion	Ratio	Lower	Upper
278	100		
139	17.2	13.4	20.0
279	24.3	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MS

Manual Integrations
APPROVED

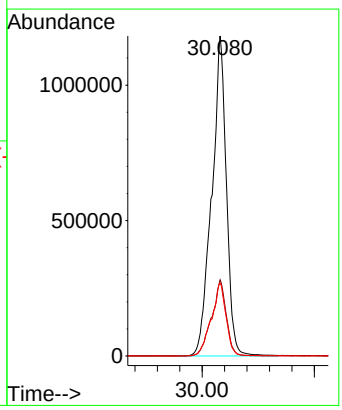
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 46.049 ng
RT: 30.080 min Scan# 4589
Delta R.T. -0.018 min
Lab File: BP024121.D
Acq: 27 Feb 2025 15:08

Tgt Ion:276 Resp: 5354431

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	22.7	18.1	27.1



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024122.D	1	02/26/25 11:20	02/27/25 15:49	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	31.7		4.00	10.0	ug/L
108-95-2	Phenol	13.8		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.0		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	36.2		0.71	5.00	ug/L
95-48-7	2-Methylphenol	34.0		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.8		1.40	5.00	ug/L
98-86-2	Acetophenone	50.2		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	30.3		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	51.0		1.50	2.50	ug/L
67-72-1	Hexachloroethane	28.7		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.1		1.30	5.00	ug/L
78-59-1	Isophorone	53.7		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	45.2		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	56.3		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	46.9		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.8		0.88	5.00	ug/L
91-20-3	Naphthalene	38.7		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	39.9		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	30.8		1.30	5.00	ug/L
105-60-2	Caprolactam	13.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.5		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	41.9		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	48.2		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	43.4		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	52.4		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	61.4		0.93	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024122.D	1	02/26/25 11:20	02/27/25 15:49	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	50.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	51.2		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	24.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	46.5		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	71.9		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	36.2		2.00	10.0	ug/L
132-64-9	Dibenzofuran	44.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	55.3		1.50	5.00	ug/L
84-66-2	Diethylphthalate	50.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.8		0.98	5.00	ug/L
86-73-7	Fluorene	48.2		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	36.6		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	37.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.5		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.0		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.10	5.00	ug/L
1912-24-9	Atrazine	72.7		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	95.1	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	47.4		0.89	5.00	ug/L
120-12-7	Anthracene	50.3		1.10	5.00	ug/L
86-74-8	Carbazole	50.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	54.4		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.6		1.30	5.00	ug/L
129-00-0	Pyrene	47.0		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	55.9		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	59.8		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.0		0.94	5.00	ug/L
218-01-9	Chrysene	47.8		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	55.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	58.4		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	45.5		1.10	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	02/24/25
Project:	RFP 905	Date Received:	02/24/25
Client Sample ID:	P001-CLAY-CF01-01MSD	SDG No.:	Q1421
Lab Sample ID:	Q1421-06MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP024122.D	1	02/26/25 11:20	02/27/25 15:49	PB166894

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	47.7		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	51.8		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52.9		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.9		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.7		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	20.4		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.1		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	70.8		10 - 139	47%	SPK: 150
13127-88-3	Phenol-d6	42.7		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	106		49 - 133	106%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.8		52 - 132	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	167		44 - 137	111%	SPK: 150
1718-51-0	Terphenyl-d14	102		48 - 125	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	285000	7.757			
1146-65-2	Naphthalene-d8	1120000	10.539			
15067-26-2	Acenaphthene-d10	687000	14.386			
1517-22-2	Phenanthrene-d10	1330000	17.186			
1719-03-5	Chrysene-d12	1470000	21.645			
1520-96-3	Perylene-d12	1680000	25.039			

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_P\Data\BP022725\
Data File : BP024122.D
Acq On : 27 Feb 2025 15:49
Operator : RC/JU
Sample : Q1421-06MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 16:14:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

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	7.757	152	284603	20.000	ng		0.00
21) Naphthalene-d8	10.539	136	1123648	20.000	ng		0.00
39) Acenaphthene-d10	14.386	164	686914	20.000	ng		0.00
64) Phenanthrene-d10	17.186	188	1334599	20.000	ng		0.00
76) Chrysene-d12	21.645	240	1469324	20.000	ng		0.00
86) Perylene-d12	25.039	264	1682191	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1291882	70.829	ng		0.00
7) Phenol-d6	6.940	99	1001653	42.728	ng		0.00
23) Nitrobenzene-d5	8.904	82	2143628	106.431	ng		0.00
42) 2,4,6-Tribromophenol	15.904	330	1404916	166.975	ng		0.00
45) 2-Fluorobiphenyl	13.004	172	4805374	97.798	ng		0.00
79) Terphenyl-d14	19.915	244	7563646	101.860	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.305	88	146114	20.421	ng		97
3) Pyridine	3.705	79	326366	17.544	ng		98
4) n-Nitrosodimethylamine	3.610	42	125627	19.039	ng	#	95
6) Aniline	7.087	93	764302	35.601	ng		99
8) 2-Chlorophenol	7.328	128	699295	36.223	ng		97
9) Benzaldehyde	6.904	77	338946m	31.669	ng		
10) Phenol	6.963	94	325655	13.815	ng		99
11) bis(2-Chloroethyl)ether	7.181	93	835463	44.997	ng		98
12) 1,3-Dichlorobenzene	7.651	146	645236	30.423	ng		99
13) 1,4-Dichlorobenzene	7.793	146	666902	31.093	ng		99
14) 1,2-Dichlorobenzene	8.104	146	665159	32.314	ng		100
15) Benzyl Alcohol	7.993	79	485849	33.858	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.275	45	842890m	46.765	ng		
17) 2-Methylphenol	8.198	107	488620	34.014	ng		99
18) Hexachloroethane	8.834	117	221886	28.726	ng		98
19) n-Nitroso-di-n-propyla...	8.557	70	642793	50.997	ng		99
20) 3+4-Methylphenols	8.522	107	591497	30.267	ng		99
22) Acetophenone	8.569	105	1448224	50.155	ng		99
24) Nitrobenzene	8.945	77	893418	45.072	ng		97
25) Isophorone	9.469	82	1767307	53.658	ng		99
26) 2-Nitrophenol	9.651	139	412490	45.169	ng		98
27) 2,4-Dimethylphenol	9.716	122	674767	56.289	ng		96
28) bis(2-Chloroethoxy)met...	9.945	93	1119436	46.917	ng		99
29) 2,4-Dichlorophenol	10.187	162	732683	44.787	ng		99
30) 1,2,4-Trichlorobenzene	10.398	180	648095	34.577	ng		98
31) Naphthalene	10.586	128	2335391	38.654	ng		99
32) Benzoic acid	9.804	122	118371	15.431	ng		99
33) 4-Chloroaniline	10.692	127	849107	39.893	ng		98
34) Hexachlorobutadiene	10.869	225	334876	30.846	ng		99
35) Caprolactam	11.486	113	49247	13.473	ng		88
36) 4-Chloro-3-methylphenol	11.822	107	748050	44.480	ng		97
37) 2-Methylnaphthalene	12.198	142	1682459	41.897	ng		100
38) 1-Methylnaphthalene	12.416	142	1654059	42.340	ng		100
40) 1,2,4,5-Tetrachloroben...	12.569	216	942392	44.651	ng		99
41) Hexachlorocyclopentadiene	12.551	237	928359	118.207	ng		99
43) 2,4,6-Trichlorophenol	12.810	196	615377	47.810	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024122.D
Acq On : 27 Feb 2025 15:49
Operator : RC/JU
Sample : Q1421-06MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 27 16:14:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

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	12.886	196	683952	48.587	ng	99
46) 1,1'-Biphenyl	13.216	154	2573531	48.214	ng	99
47) 2-Chloronaphthalene	13.257	162	1752829	43.440	ng	99
48) 2-Nitroaniline	13.457	65	499760	52.432	ng	98
49) Acenaphthylene	14.110	152	2990870	50.309	ng	99
50) Dimethylphthalate	13.845	163	2973591	61.369	ng	100
51) 2,6-Dinitrotoluene	13.957	165	505399	51.204	ng	99
52) Acenaphthene	14.457	154	1778611	46.459	ng	99
53) 3-Nitroaniline	14.286	138	259990	24.685	ng	95
54) 2,4-Dinitrophenol	14.504	184	462475	71.938	ng	93
55) Dibenzofuran	14.792	168	2792620	44.904	ng	99
56) 4-Nitrophenol	14.616	139	329289	36.194	ng	99
57) 2,4-Dinitrotoluene	14.757	165	708890	55.288	ng	99
58) Fluorene	15.451	166	2342849	48.237	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.027	232	587124	48.073	ng	99
60) Diethylphthalate	15.227	149	2446095	50.855	ng	99
61) 4-Chlorophenyl-phenyle...	15.451	204	1118602	46.790	ng	98
62) 4-Nitroaniline	15.474	138	445588	36.575	ng	97
63) Azobenzene	15.751	77	2290582	50.820	ng	97
65) 4,6-Dinitro-2-methylph...	15.533	198	308261	37.465	ng	98
66) n-Nitrosodiphenylamine	15.669	169	2020413	48.545	ng	99
67) 4-Bromophenyl-phenylether	16.363	248	689156	45.984	ng	99
68) Hexachlorobenzene	16.480	284	825350	46.803	ng	98
69) Atrazine	16.645	200	776349	72.687	ng	99
70) Pentachlorophenol	16.833	266	1089645	95.136	ng	99
71) Phenanthrene	17.233	178	3568203	47.422	ng	100
72) Anthracene	17.327	178	3627588	50.310	ng	100
73) Carbazole	17.604	167	3445005	50.146	ng	100
74) Di-n-butylphthalate	18.198	149	4357526	54.360	ng	100
75) Fluoranthene	19.315	202	4135511	48.593	ng	98
77) Benzidine	19.515	184	1495467	83.524	ng	100
78) Pyrene	19.698	202	4384010	46.973	ng	100
80) Butylbenzylphthalate	20.645	149	1998428	55.879	ng	98
81) Benzo(a)anthracene	21.627	228	4608511	50.020	ng	99
82) 3,3'-Dichlorobenzidine	21.545	252	1722208	59.819	ng	100
83) Chrysene	21.698	228	4250117	47.839	ng	99
84) Bis(2-ethylhexyl)phtha...	21.568	149	3022621	55.734	ng	100
85) Di-n-octyl phthalate	22.868	149	5066372	58.444	ng	99
87) Indeno(1,2,3-cd)pyrene	28.886	276	6324682m	52.850	ng	
88) Benzo(b)fluoranthene	23.951	252	4858290	45.480	ng	98
89) Benzo(k)fluoranthene	24.033	252	4960467	47.707	ng	99
90) Benzo(a)pyrene	24.874	252	4695288	51.792	ng	99
91) Dibenzo(a,h)anthracene	28.968	278	5166680	51.347	ng	99
92) Benzo(g,h,i)perylene	30.062	276	4890835	47.899	ng	100

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

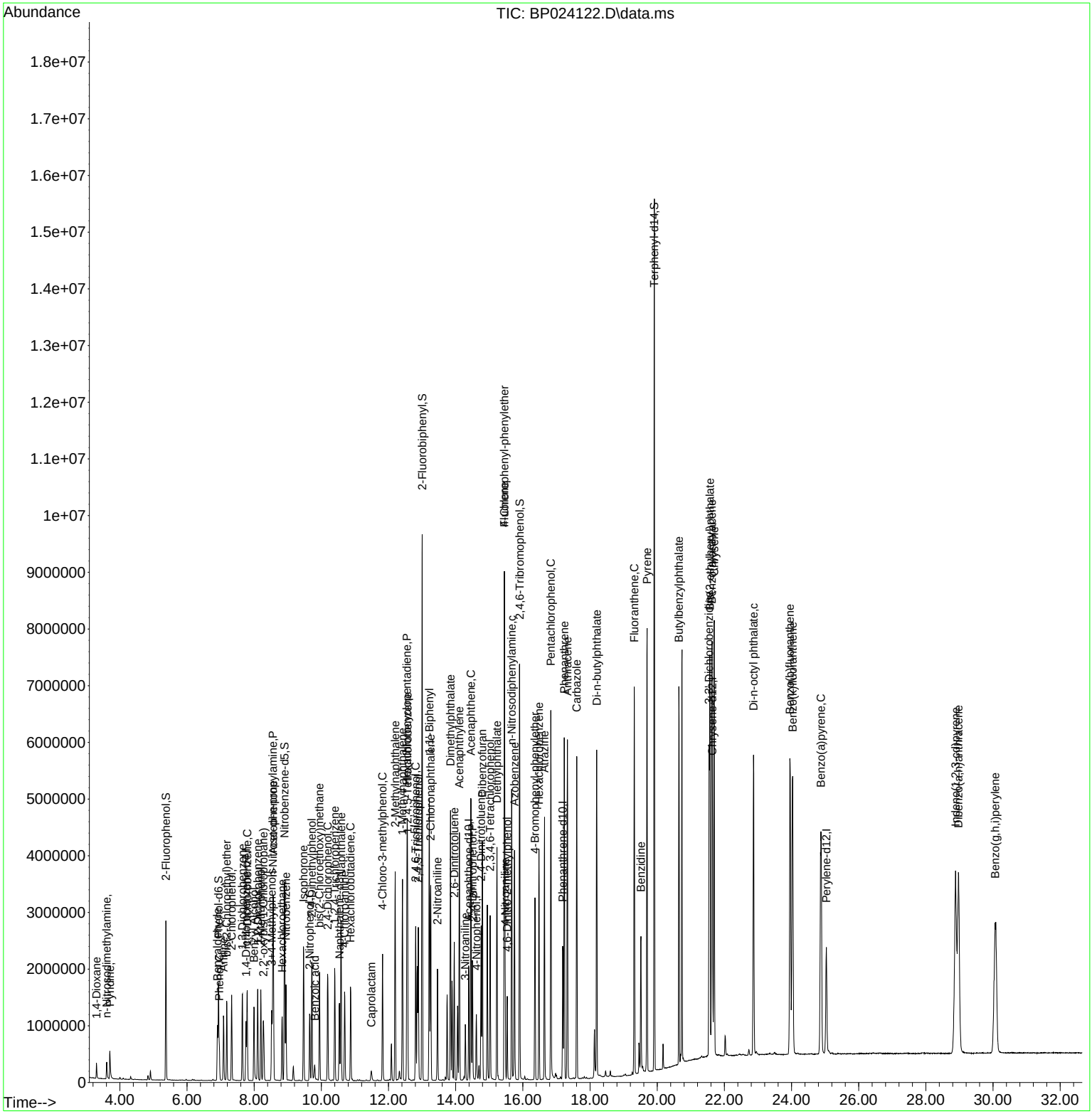
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP022725\
Data File : BP024122.D
Acq On : 27 Feb 2025 15:49
Operator : RC/JU
Sample : Q1421-06MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

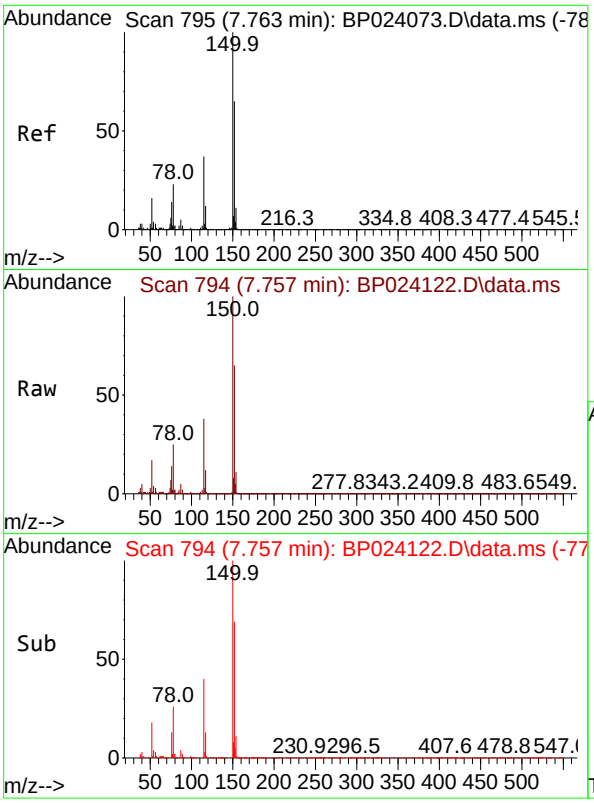
Quant Time: Feb 27 16:14:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP021725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 18 02:25:07 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

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

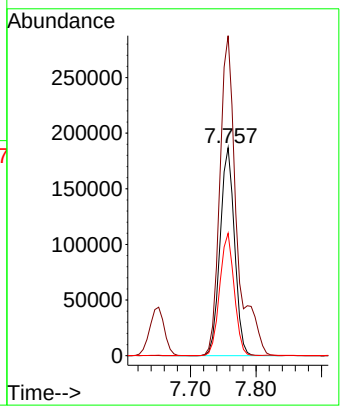




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.757 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:152 Resp: 28460

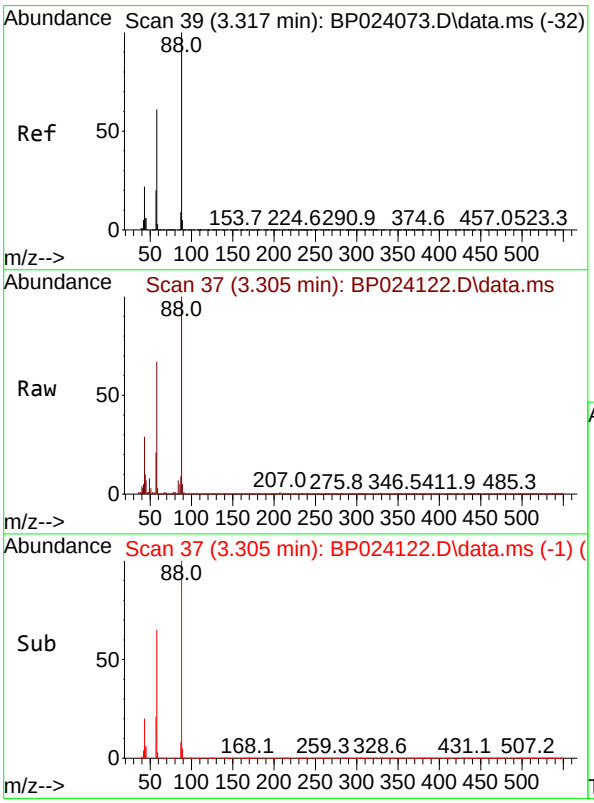
Ion	Ratio	Lower	Upper
152	100		
150	153.9	122.4	183.6
115	58.9	45.0	67.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

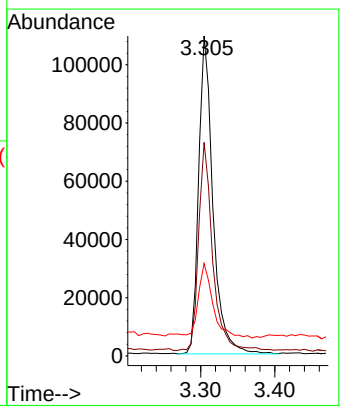
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

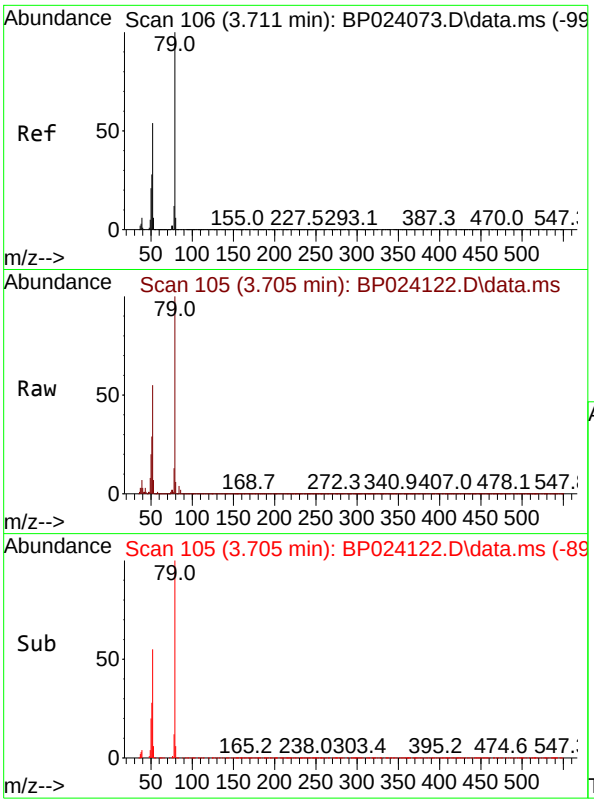


#2
1,4-Dioxane
Concen: 20.421 ng
RT: 3.305 min Scan# 37
Delta R.T. -0.012 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 88 Resp: 146114

Ion	Ratio	Lower	Upper
88	100		
58	64.1	49.1	73.7
43	23.9	18.0	27.0

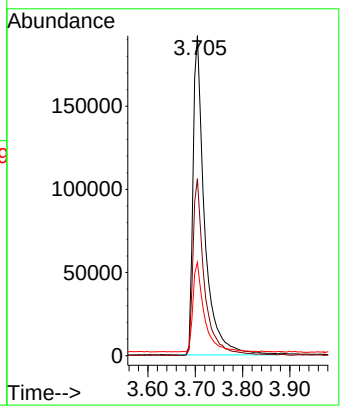




#3
Pyridine
Concen: 17.544 ng
RT: 3.705 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 79 Resp: 32636

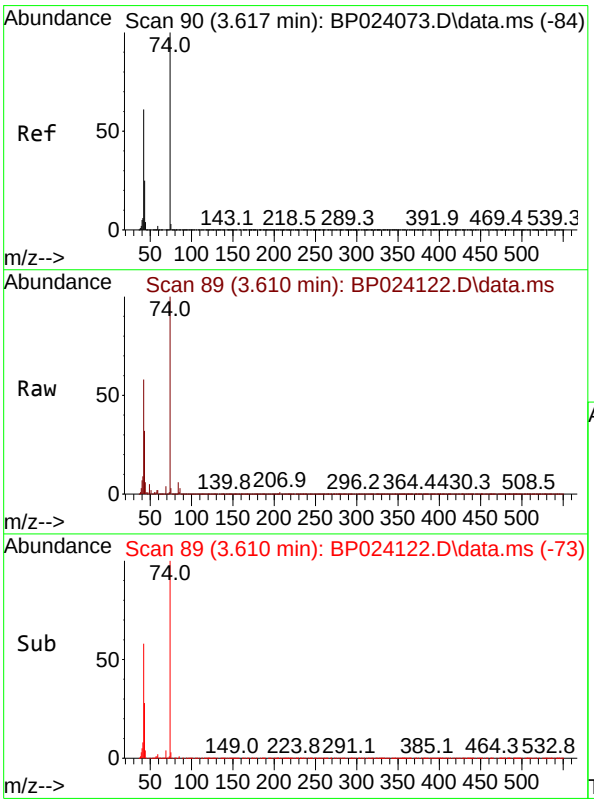
Ion	Ratio	Lower	Upper
79	100		
52	55.3	43.5	65.3
51	29.1	22.2	33.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

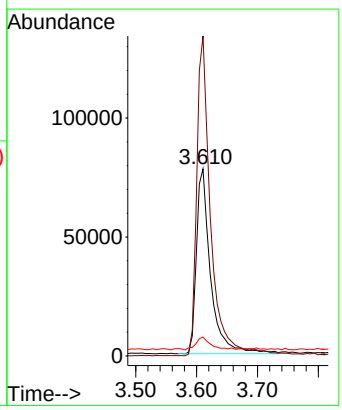
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

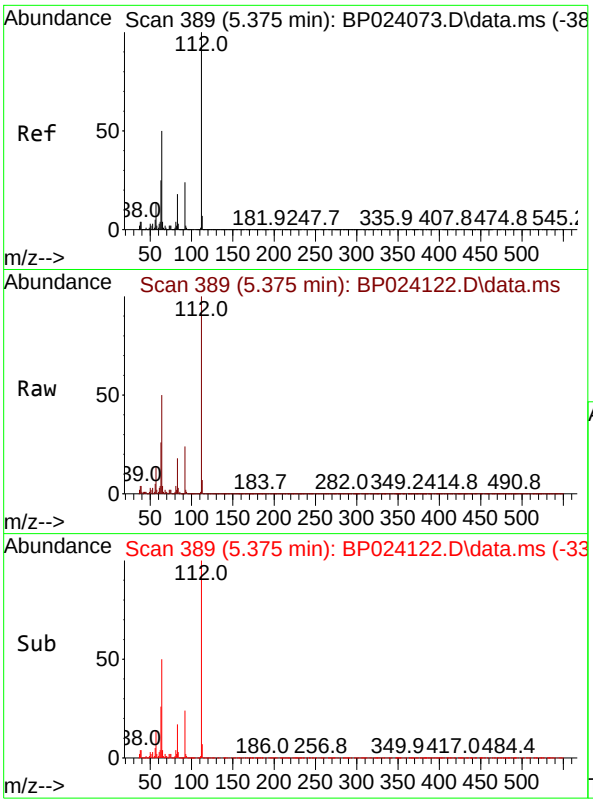


#4
n-Nitrosodimethylamine
Concen: 19.039 ng
RT: 3.610 min Scan# 89
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 42 Resp: 125627

Ion	Ratio	Lower	Upper
42	100		
74	171.1	132.0	198.0
44	10.1	5.3	7.9#

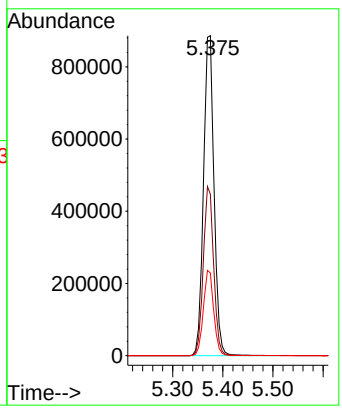




#5
2-Fluorophenol
Concen: 70.829 ng
RT: 5.375 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:112 Resp: 129188

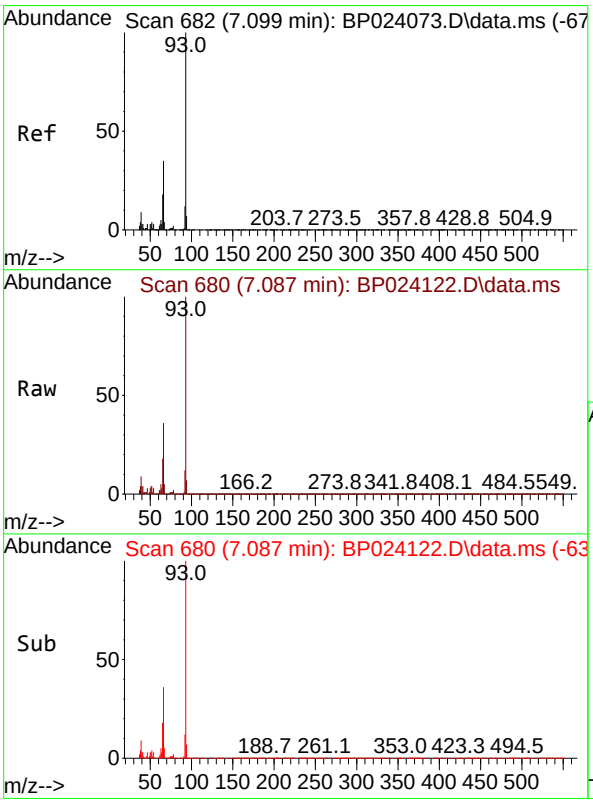
Ion	Ratio	Lower	Upper
112	100		
64	50.4	39.6	59.4
63	25.8	20.3	30.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

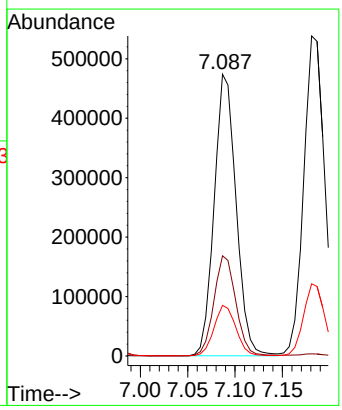
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

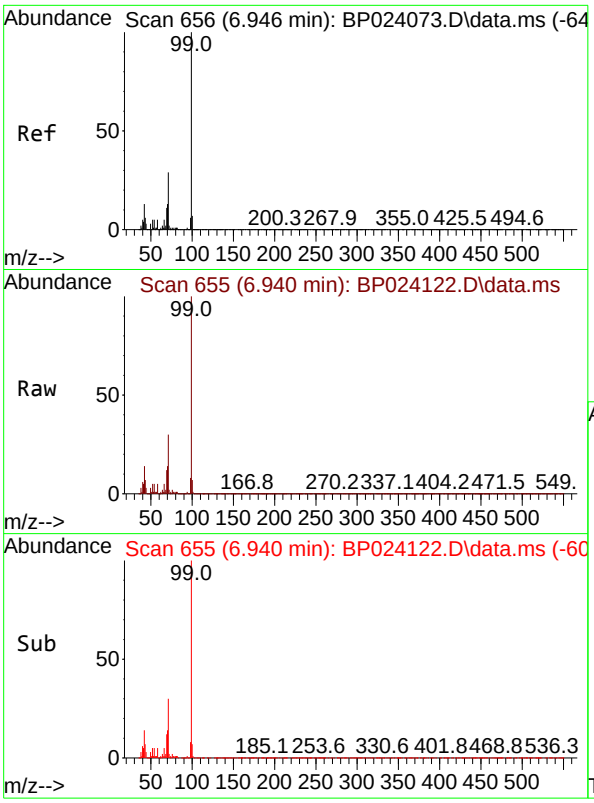


#6
Aniline
Concen: 35.601 ng
RT: 7.087 min Scan# 680
Delta R.T. -0.012 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 93 Resp: 764302

Ion	Ratio	Lower	Upper
93	100		
66	35.5	28.2	42.4
65	18.0	14.1	21.1

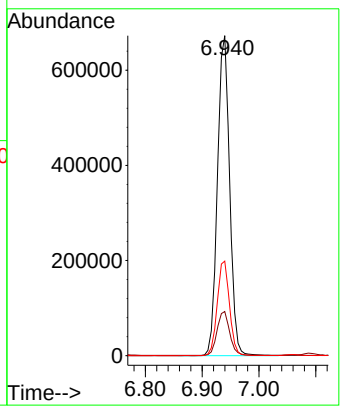




#7
Phenol-d6
Concen: 42.728 ng
RT: 6.940 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 99 Resp: 100165

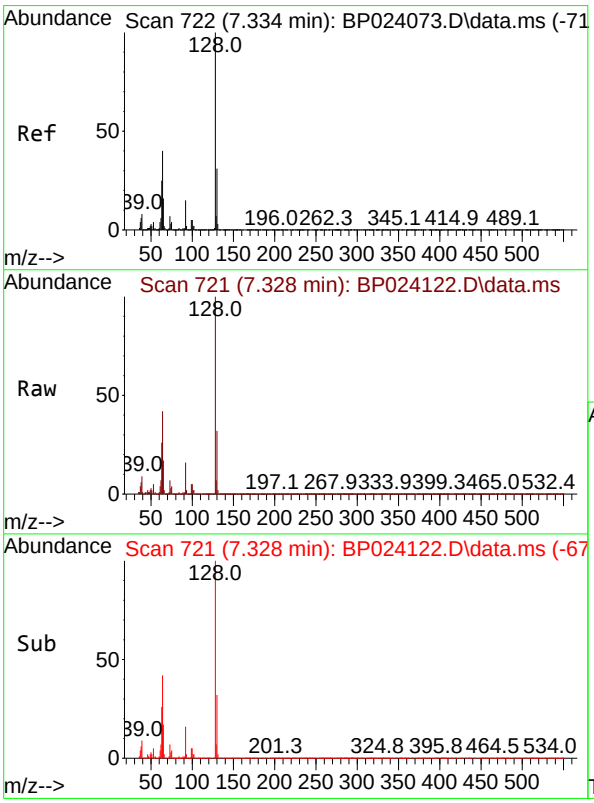
Ion	Ratio	Lower	Upper
99	100		
42	13.8	10.3	15.5
71	29.5	22.9	34.3



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

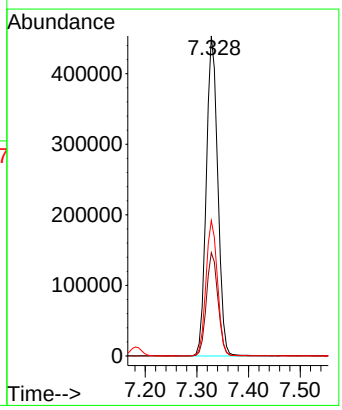
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

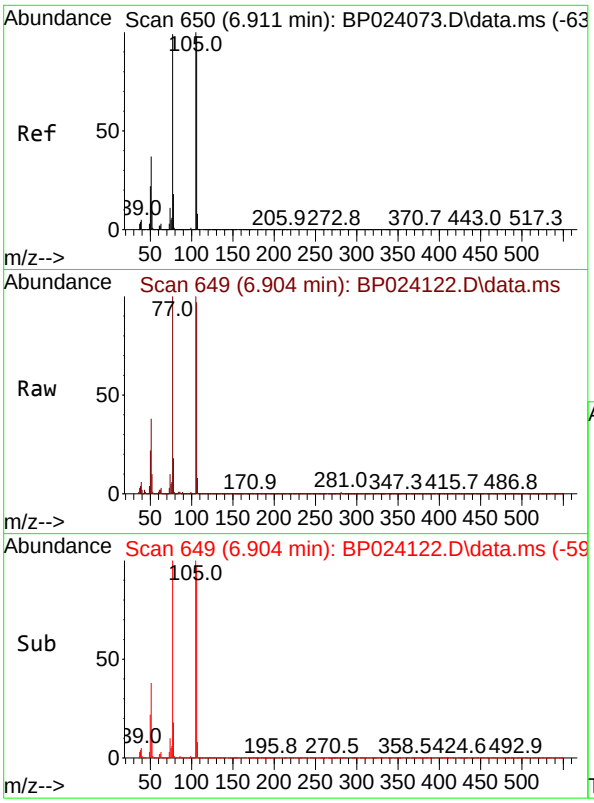


#8
2-Chlorophenol
Concen: 36.223 ng
RT: 7.328 min Scan# 721
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:128 Resp: 699295

Ion	Ratio	Lower	Upper
128	100		
130	32.3	11.5	51.5
64	42.3	19.8	59.8

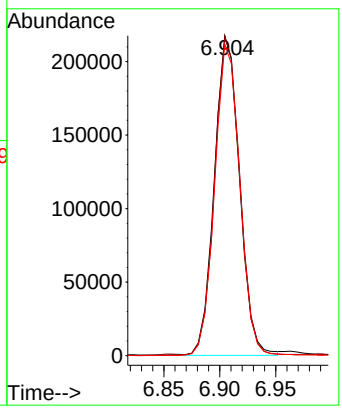




#9
Benzaldehyde
Concen: 31.669 ng m
RT: 6.904 min Scan# 64
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 77 Resp: 33894

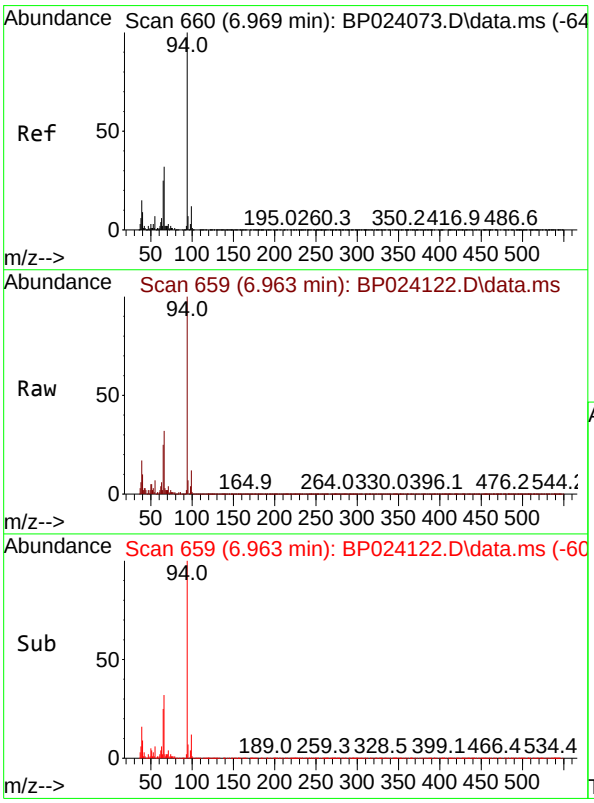
Ion	Ratio	Lower	Upper
77	100		
105	99.8	81.4	121.4
106	97.3	79.0	119.0



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

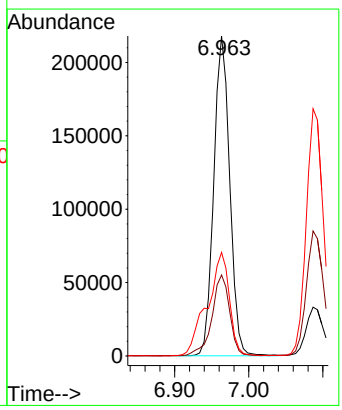
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

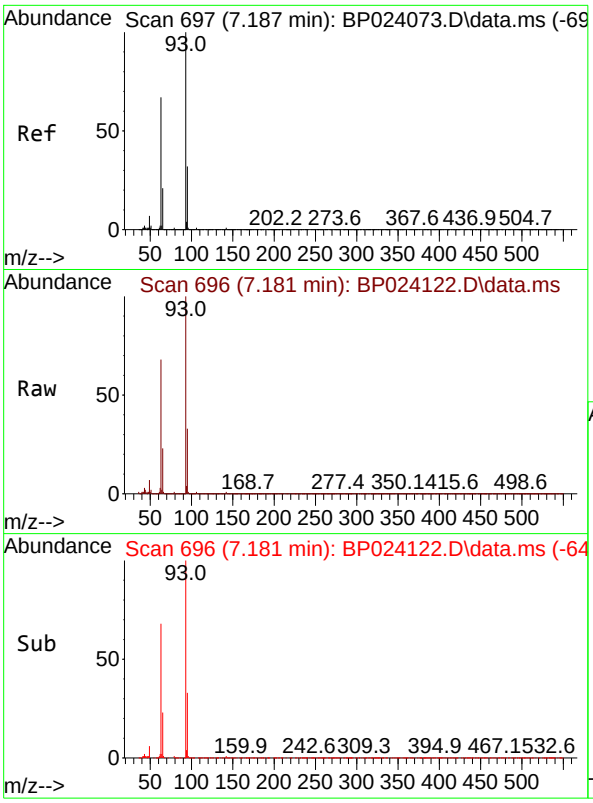


#10
Phenol
Concen: 13.815 ng
RT: 6.963 min Scan# 659
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 94 Resp: 325655

Ion	Ratio	Lower	Upper
94	100		
65	25.3	5.0	45.0
66	32.4	11.6	51.6

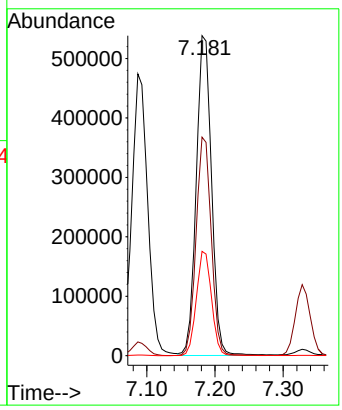




#11
bis(2-Chloroethyl)ether
Concen: 44.997 ng
RT: 7.181 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 93 Resp: 83546

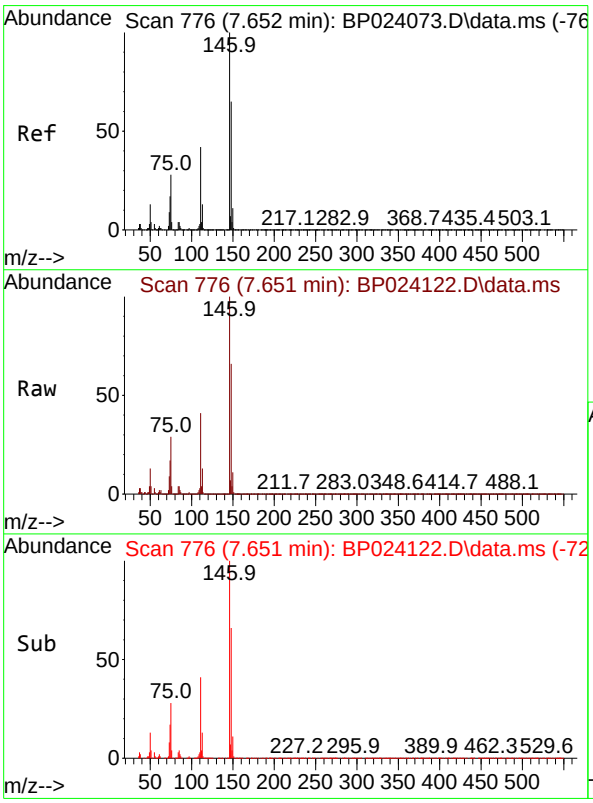
Ion	Ratio	Lower	Upper
93	100		
63	68.3	46.5	86.5
95	32.6	12.3	52.3



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

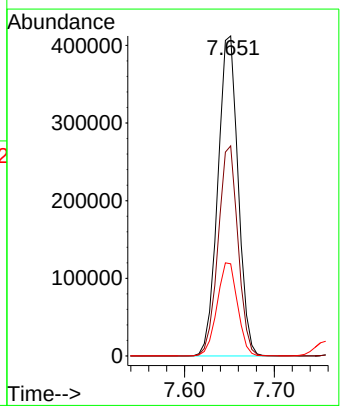
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

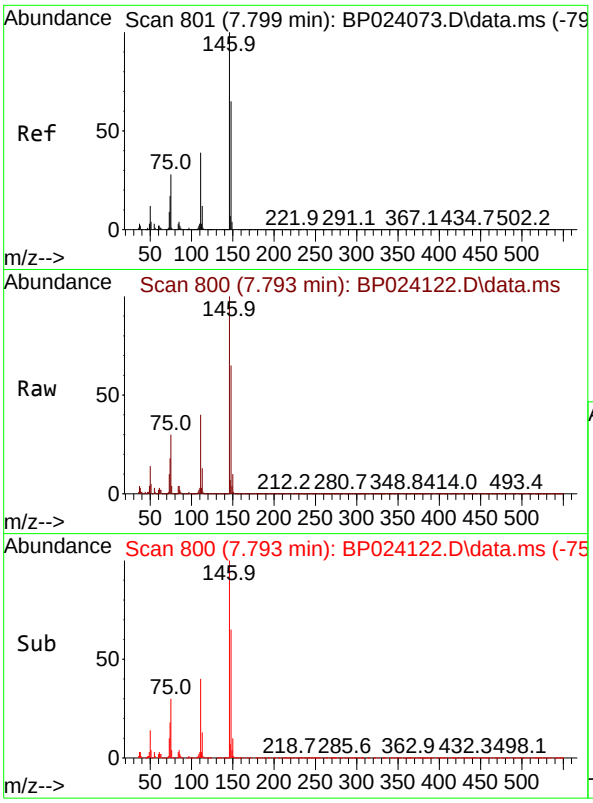


#12
1,3-Dichlorobenzene
Concen: 30.423 ng
RT: 7.651 min Scan# 776
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:146 Resp: 645236

Ion	Ratio	Lower	Upper
146	100		
148	65.7	51.8	77.8
75	28.8	22.6	33.8

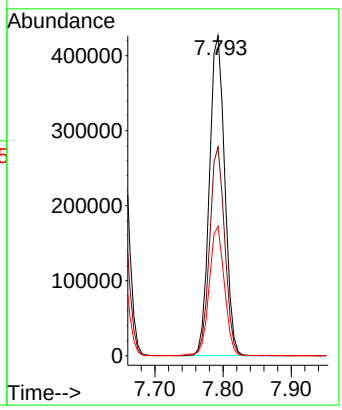




#13
1,4-Dichlorobenzene
Concen: 31.093 ng
RT: 7.793 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:146 Resp: 66690

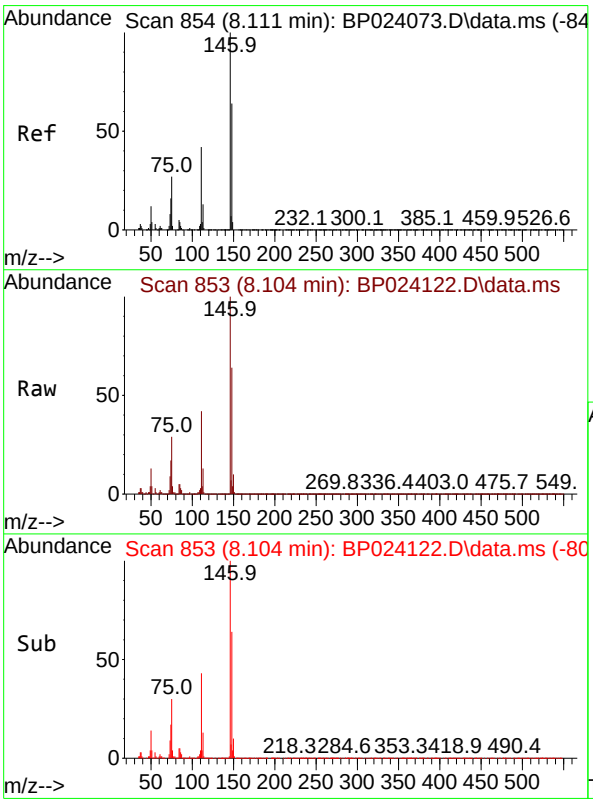
Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.6	77.4
111	40.4	31.2	46.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

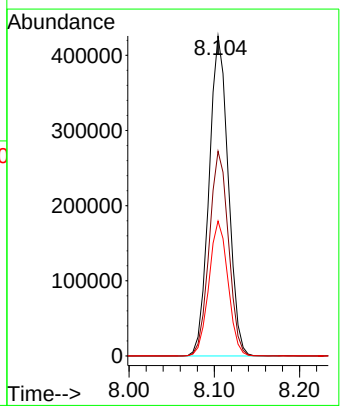
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

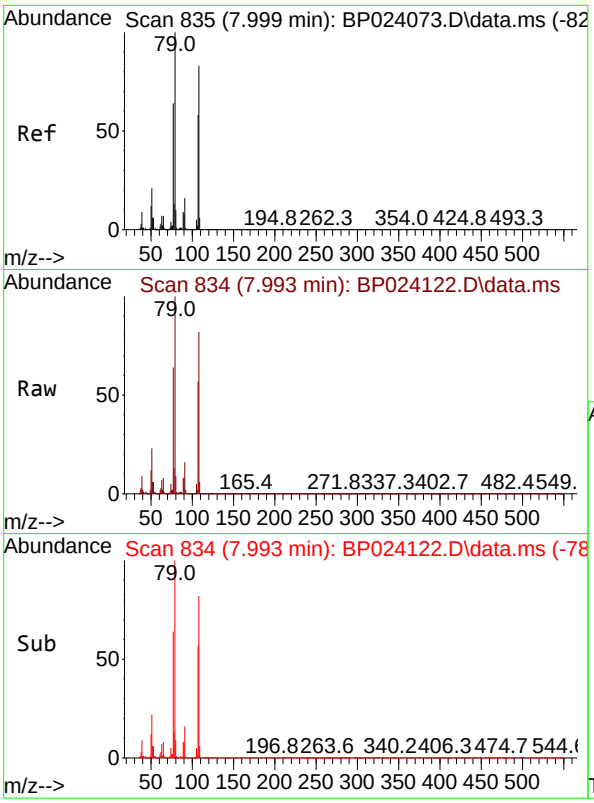


#14
1,2-Dichlorobenzene
Concen: 32.314 ng
RT: 8.104 min Scan# 853
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:146 Resp: 665159

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	42.2	33.4	50.0





#15
Benzyl Alcohol
Concen: 33.858 ng
RT: 7.993 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

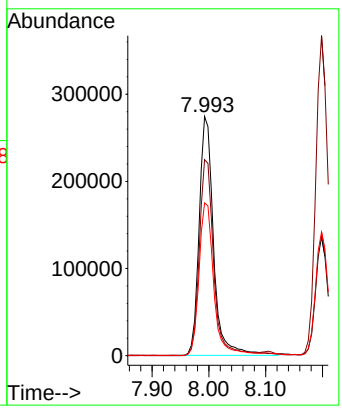
Tgt Ion: 79 Resp: 48584

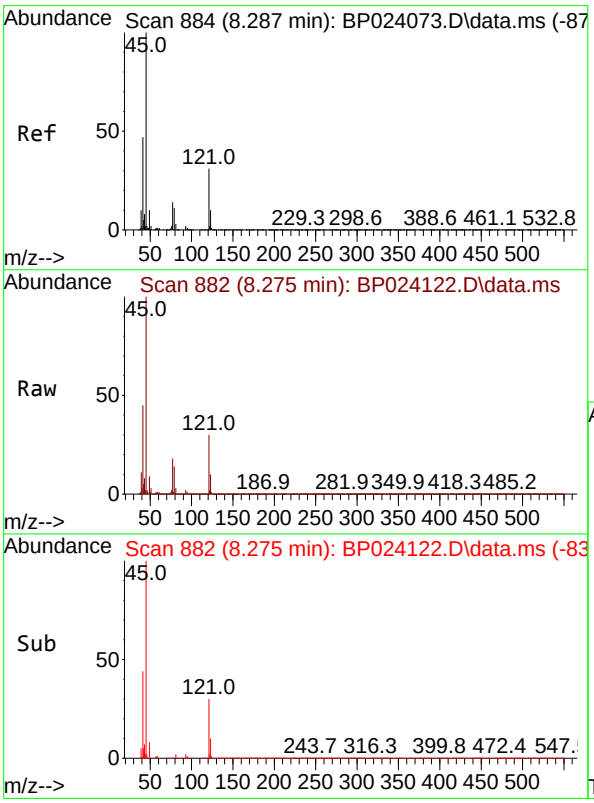
Ion	Ratio	Lower	Upper
79	100		
108	81.9	66.4	99.6
77	63.9	51.3	76.9

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

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

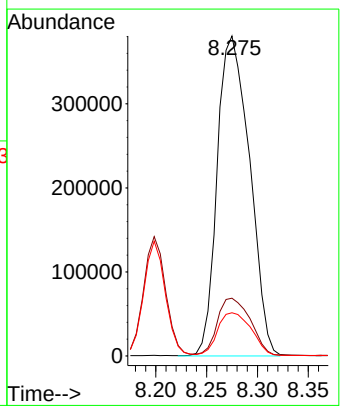


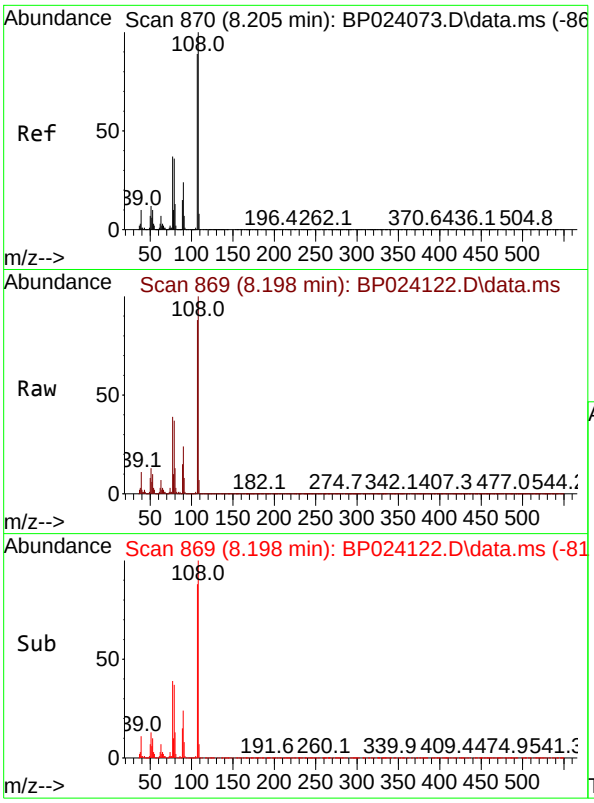


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.765 ng m
RT: 8.275 min Scan# 882
Delta R.T. -0.012 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 45 Resp: 842890

Ion	Ratio	Lower	Upper
45	100		
77	18.1	0.0	38.8
79	13.5	0.0	35.4

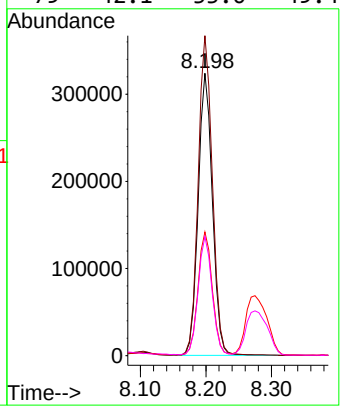




#17
2-Methylphenol
Concen: 34.014 ng
RT: 8.198 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:107 Resp: 48862

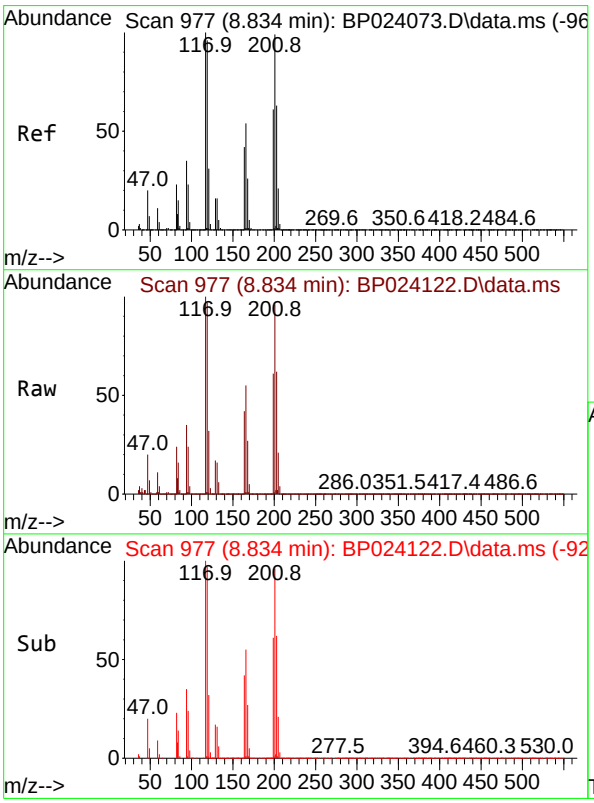
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.0	135.0
77	43.8	33.8	50.6
79	42.1	33.0	49.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

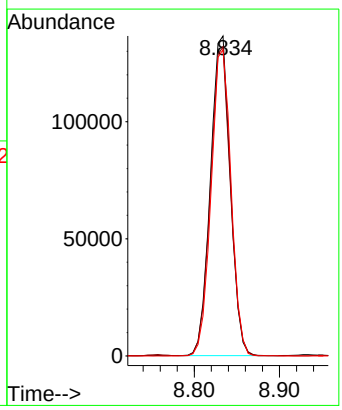
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

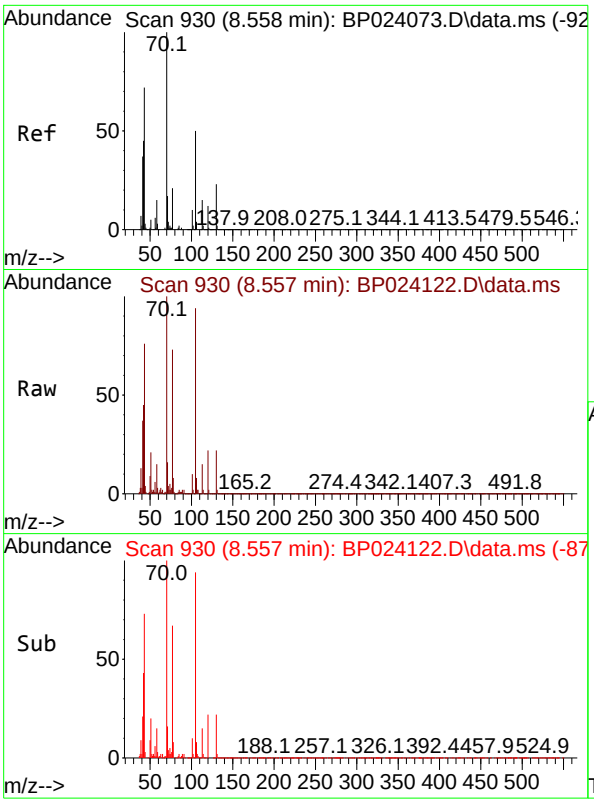


#18
Hexachloroethane
Concen: 28.726 ng
RT: 8.834 min Scan# 977
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:117 Resp: 221886

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.9	115.3
201	95.7	79.4	119.2

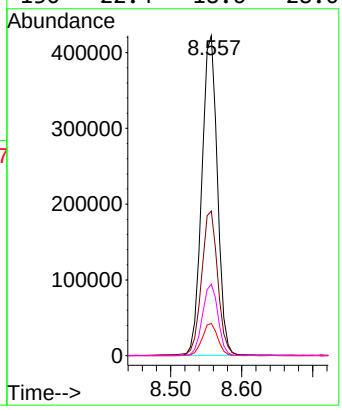




#19
n-Nitroso-di-n-propylamine
Concen: 50.997 ng
RT: 8.557 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

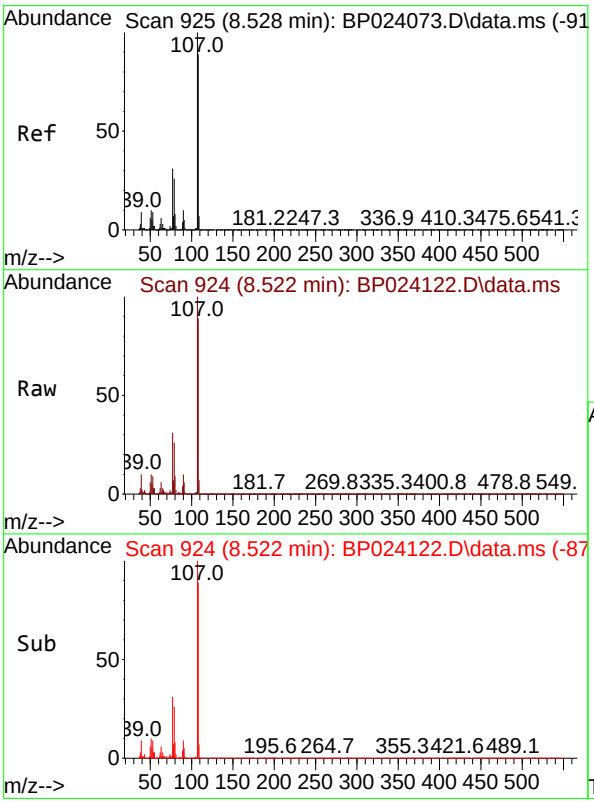
Tgt Ion: 70 Resp: 64279

Ion	Ratio	Lower	Upper
70	100		
42	45.2	36.6	54.8
101	10.0	8.2	12.2
130	22.4	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

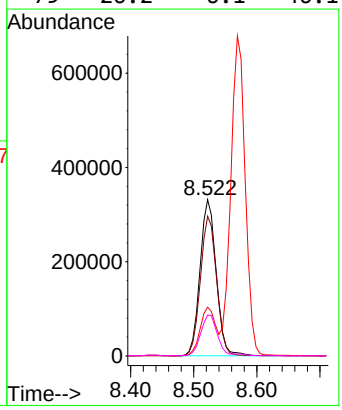
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

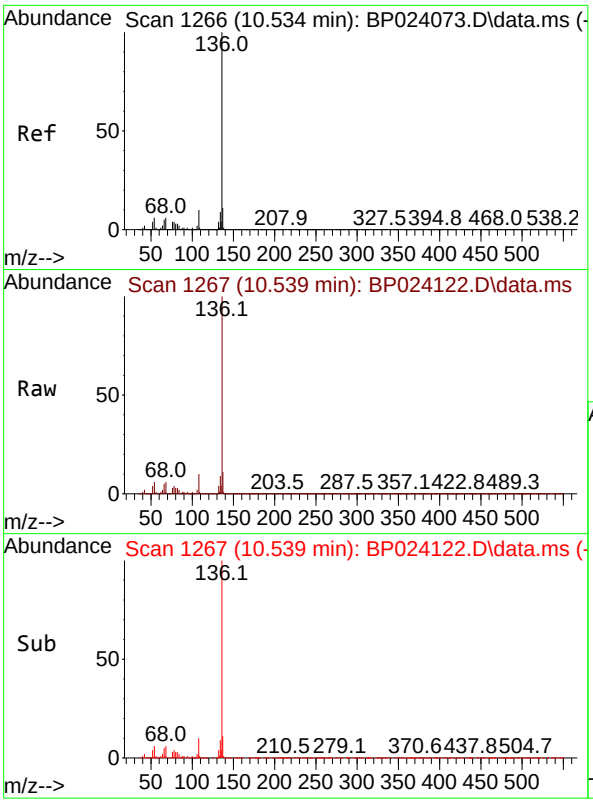


#20
3+4-Methylphenols
Concen: 30.267 ng
RT: 8.522 min Scan# 924
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:107 Resp: 591497

Ion	Ratio	Lower	Upper
107	100		
108	89.3	68.5	108.5
77	31.3	10.7	50.7
79	26.2	6.1	46.1

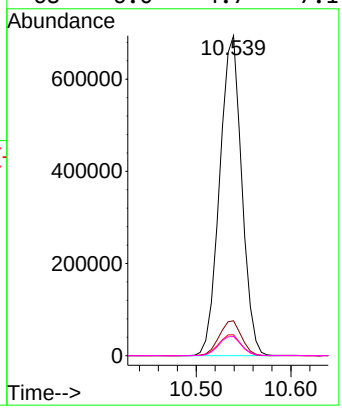




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.539 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:136 Resp: 112364

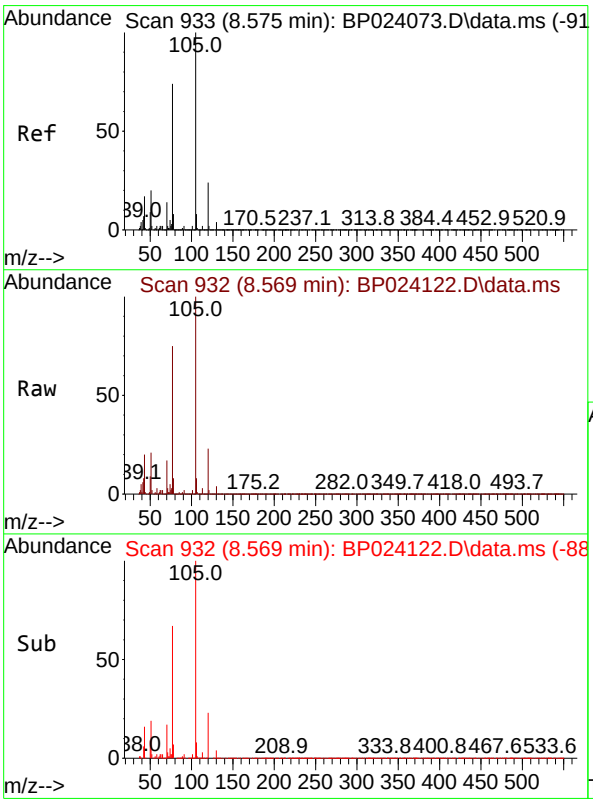
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	6.5	4.9	7.3
68	6.0	4.7	7.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

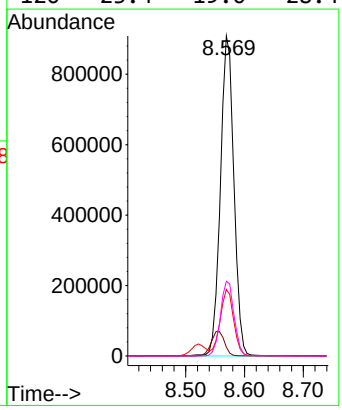
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

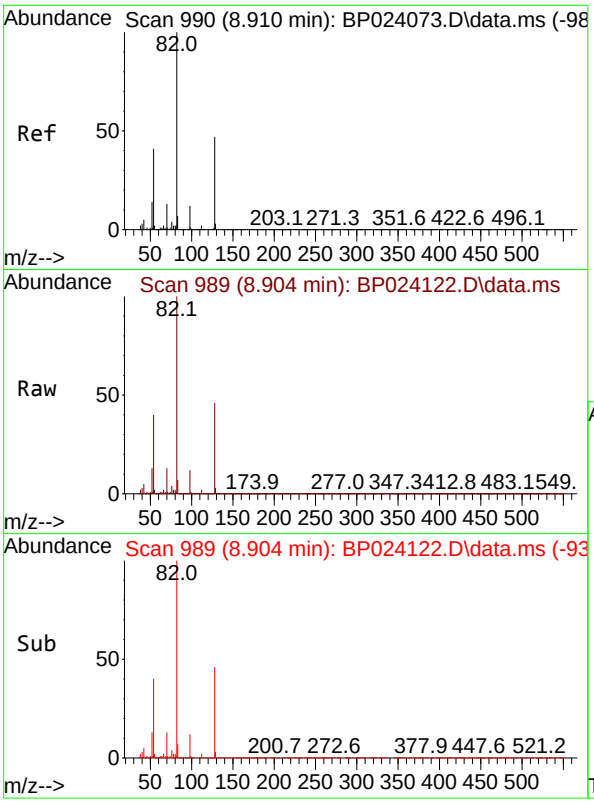


#22
Acetophenone
Concen: 50.155 ng
RT: 8.569 min Scan# 932
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:105 Resp: 1448224

Ion	Ratio	Lower	Upper
105	100		
71	2.7	1.9	2.9
51	20.8	16.3	24.5
120	23.4	19.0	28.4

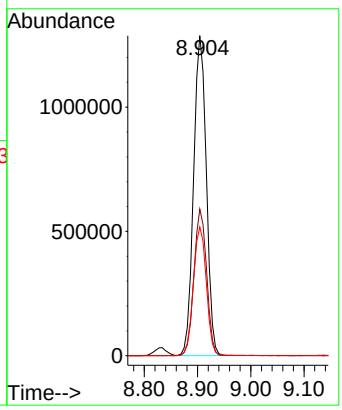




#23
Nitrobenzene-d5
Concen: 106.431 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 82 Resp: 214362

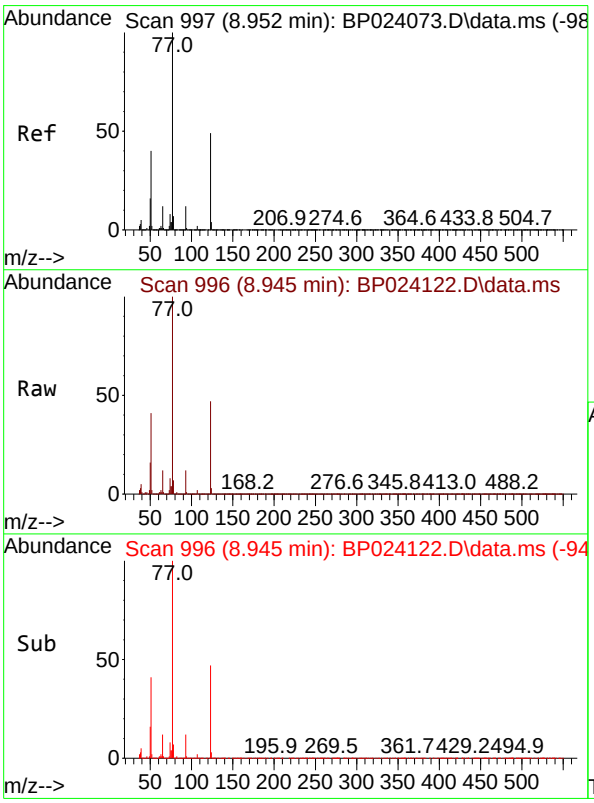
Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.4	56.2
54	40.3	32.4	48.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

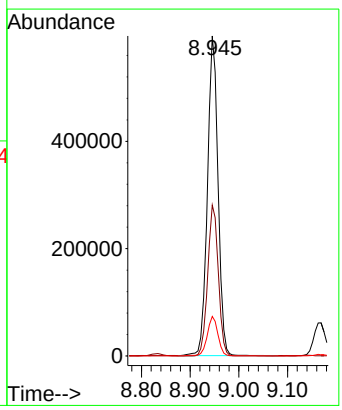
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

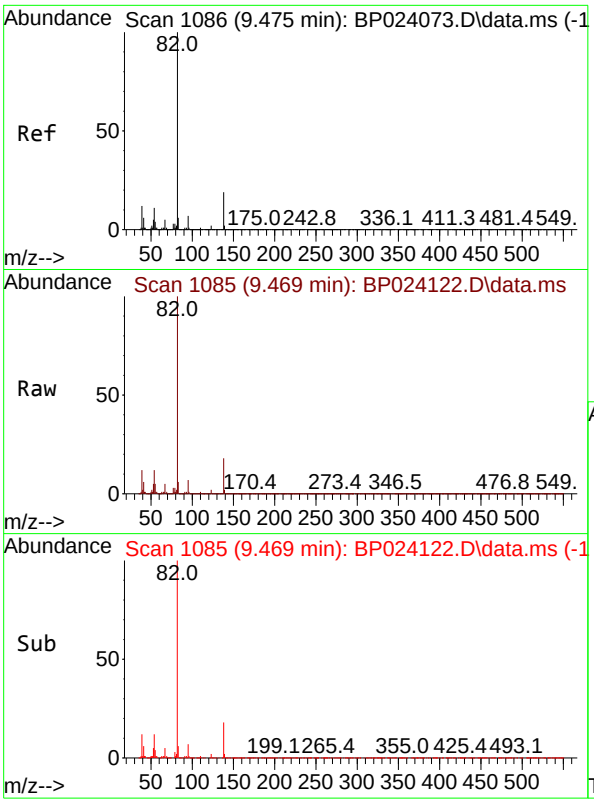


#24
Nitrobenzene
Concen: 45.072 ng
RT: 8.945 min Scan# 996
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 77 Resp: 893418

Ion	Ratio	Lower	Upper
77	100		
123	47.1	39.4	59.2
65	12.4	9.9	14.9

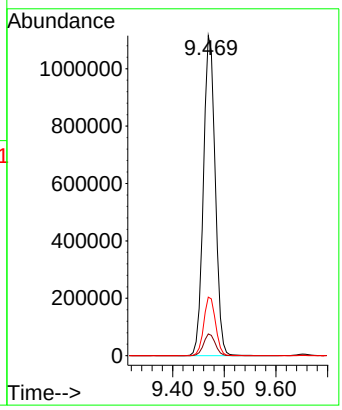




#25
Isophorone
Concen: 53.658 ng
RT: 9.469 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 82 Resp: 176730

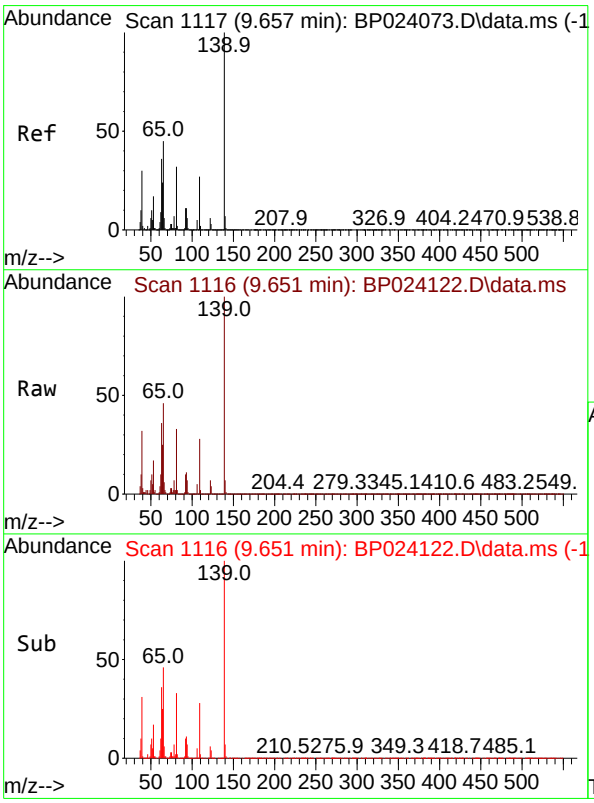
Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.4	8.0
138	18.3	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

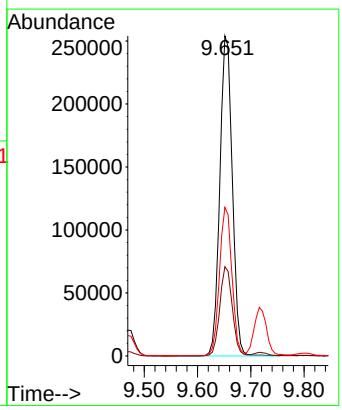
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

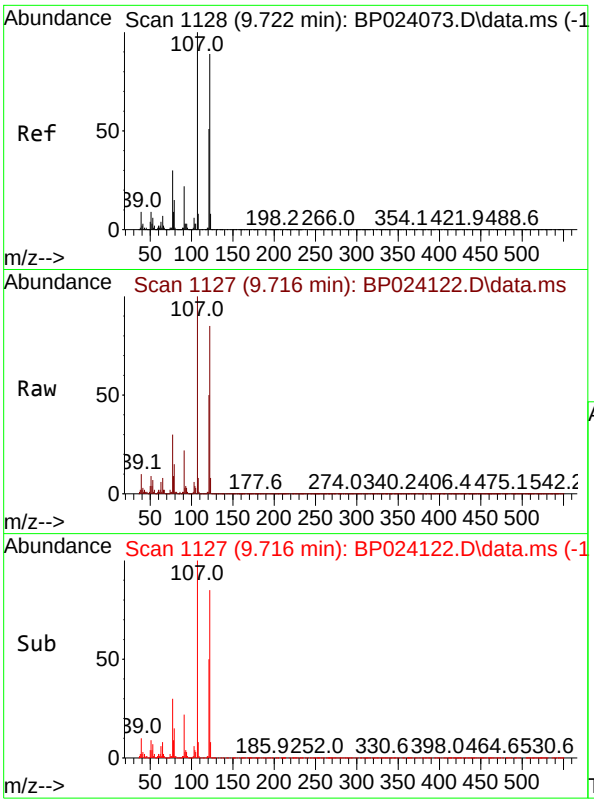


#26
2-Nitrophenol
Concen: 45.169 ng
RT: 9.651 min Scan# 1116
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:139 Resp: 412490

Ion	Ratio	Lower	Upper
139	100		
109	27.9	21.7	32.5
65	46.4	36.1	54.1





#27
2,4-Dimethylphenol
Concen: 56.289 ng
RT: 9.716 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

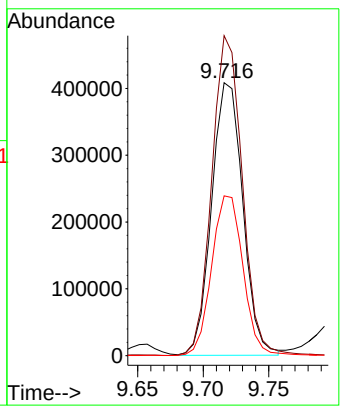
Tgt Ion:122 Resp: 67476

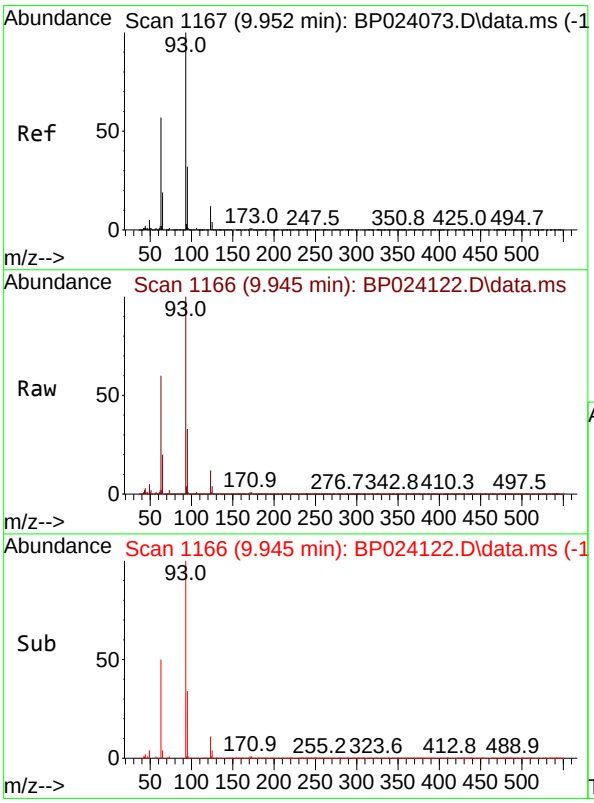
Ion	Ratio	Lower	Upper
122	100		
107	117.3	89.8	134.8
121	58.6	45.9	68.9

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

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

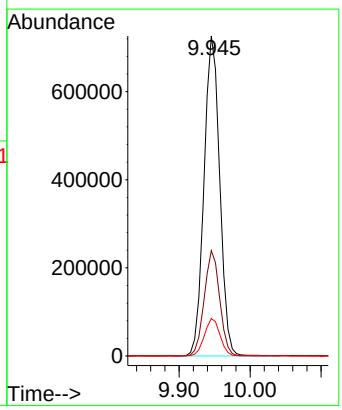


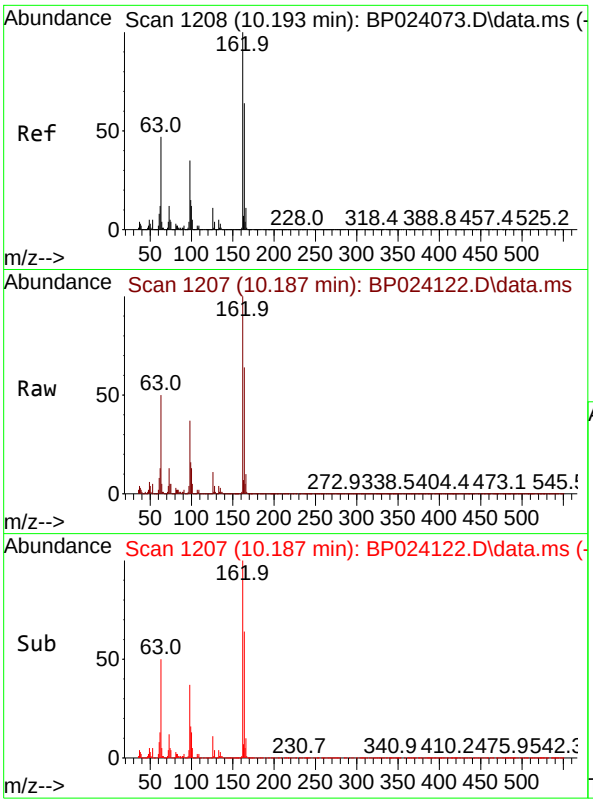


#28
bis(2-Chloroethoxy)methane
Concen: 46.917 ng
RT: 9.945 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 93 Resp: 1119436

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	11.7	9.7	14.5

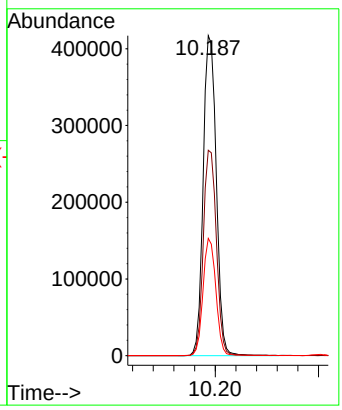




#29
2,4-Dichlorophenol
Concen: 44.787 ng
RT: 10.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:162 Resp: 73268

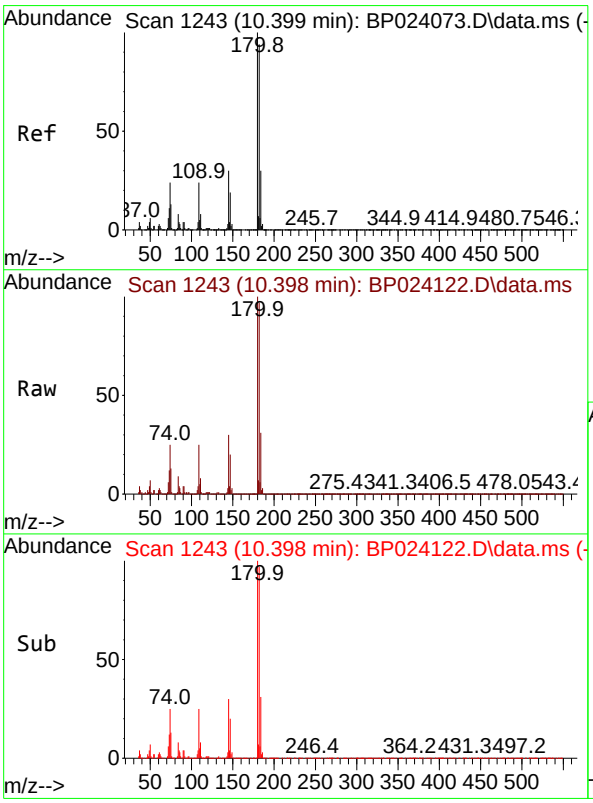
Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.5	84.5
98	36.7	15.3	55.3



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

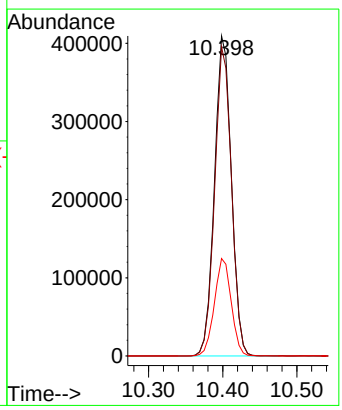
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

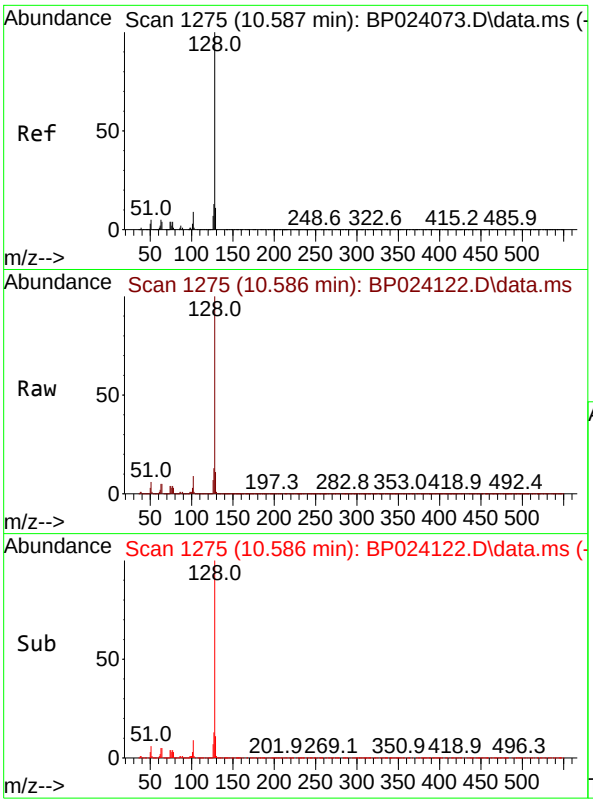


#30
1,2,4-Trichlorobenzene
Concen: 34.577 ng
RT: 10.398 min Scan# 1243
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:180 Resp: 648095

Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.4	113.2
145	30.5	24.0	36.0

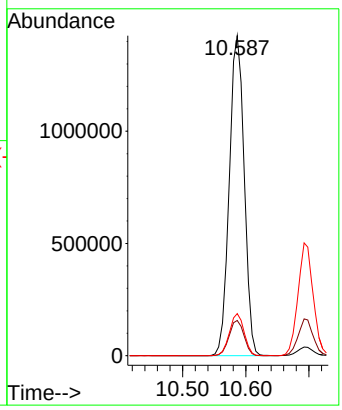




#31
Naphthalene
Concen: 38.654 ng
RT: 10.586 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:128 Resp: 233539

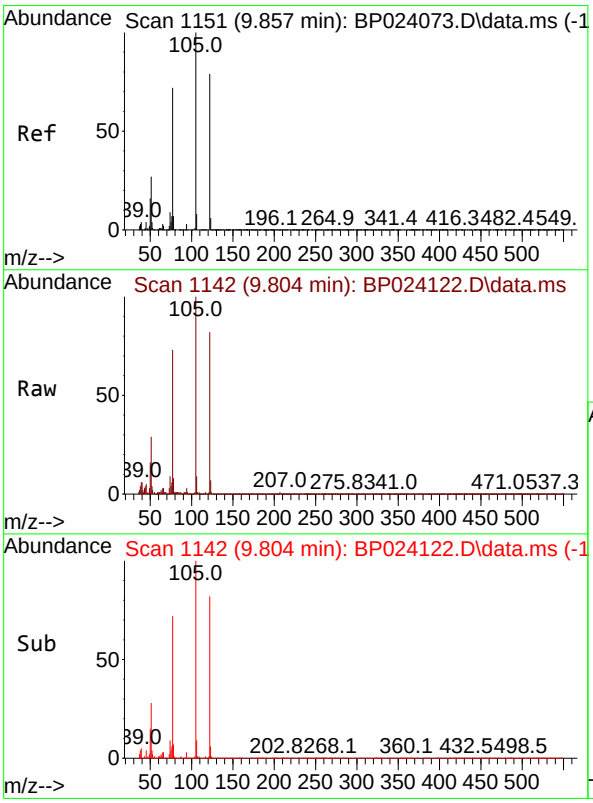
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	13.0
127	13.2	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

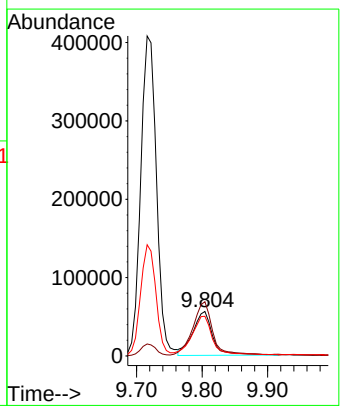
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

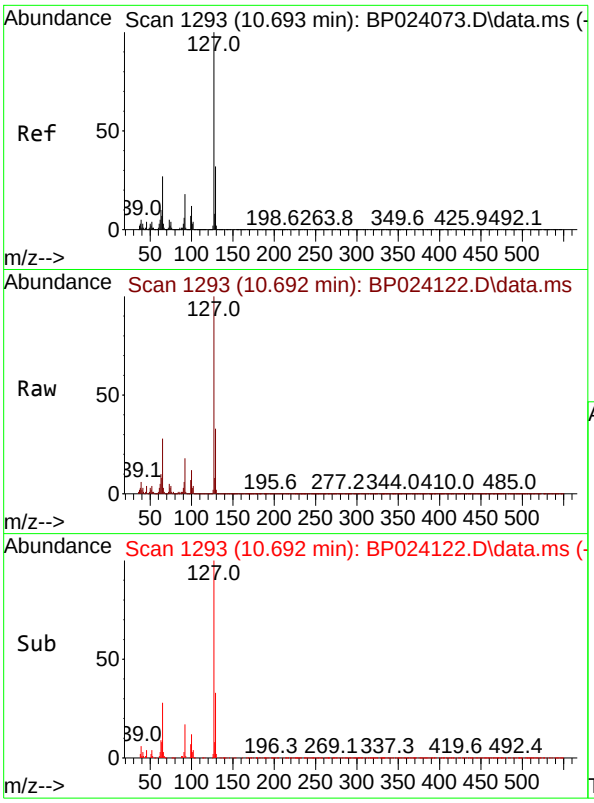


#32
Benzoic acid
Concen: 15.431 ng
RT: 9.804 min Scan# 1142
Delta R.T. -0.053 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:122 Resp: 118371

Ion	Ratio	Lower	Upper
122	100		
105	122.0	103.7	143.7
77	89.3	69.9	109.9

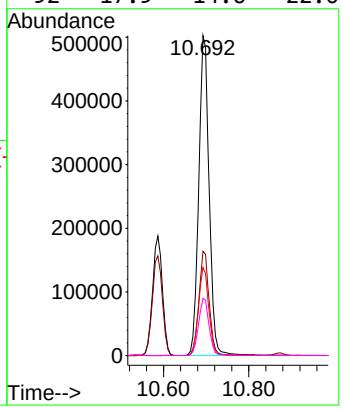




#33
4-Chloroaniline
Concen: 39.893 ng
RT: 10.692 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:127 Resp: 84910

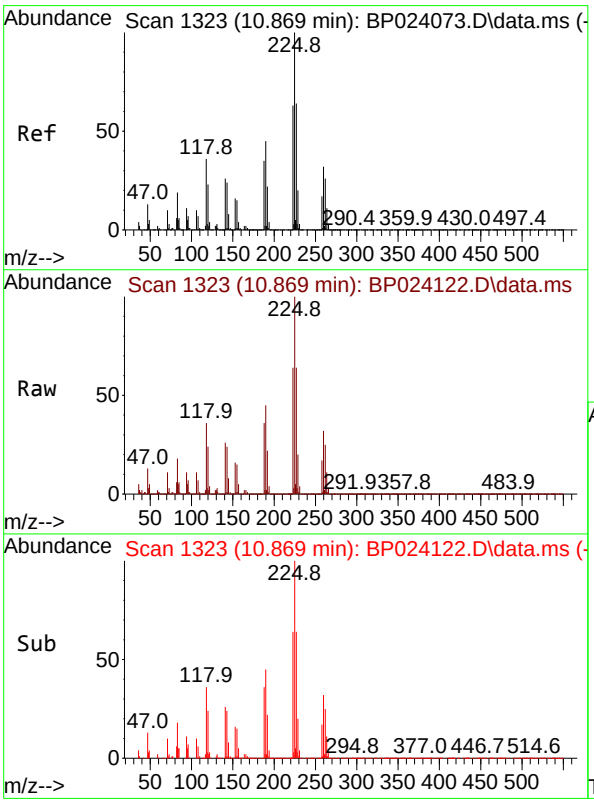
Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.4	38.0
65	27.6	21.3	31.9
92	17.9	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

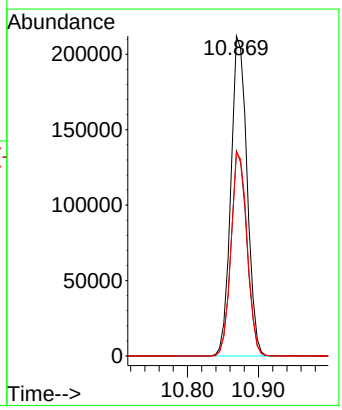
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

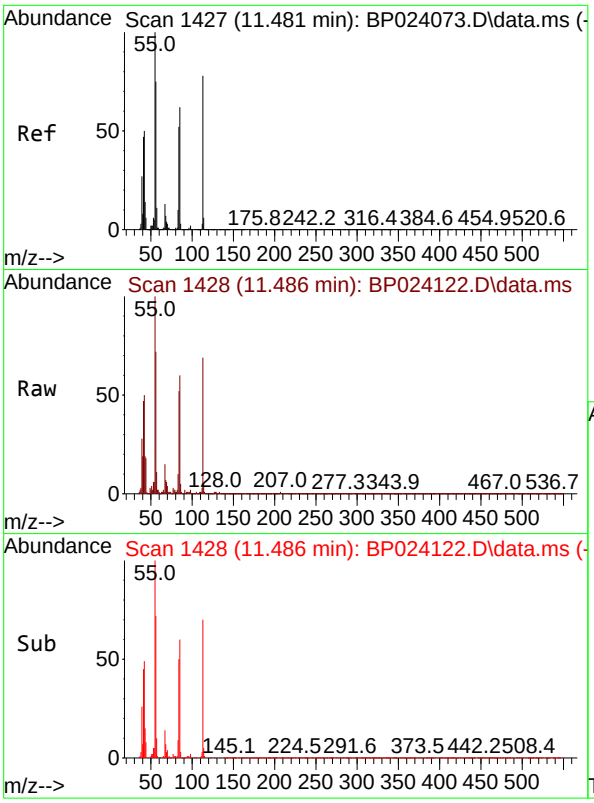


#34
Hexachlorobutadiene
Concen: 30.846 ng
RT: 10.869 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:225 Resp: 334876

Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.5	75.7
227	63.7	51.3	76.9

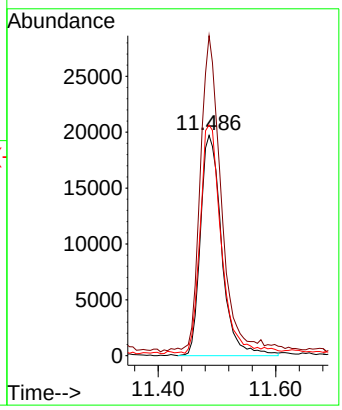




#35
Caprolactam
Concen: 13.473 ng
RT: 11.486 min Scan# 14
Delta R.T. 0.005 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

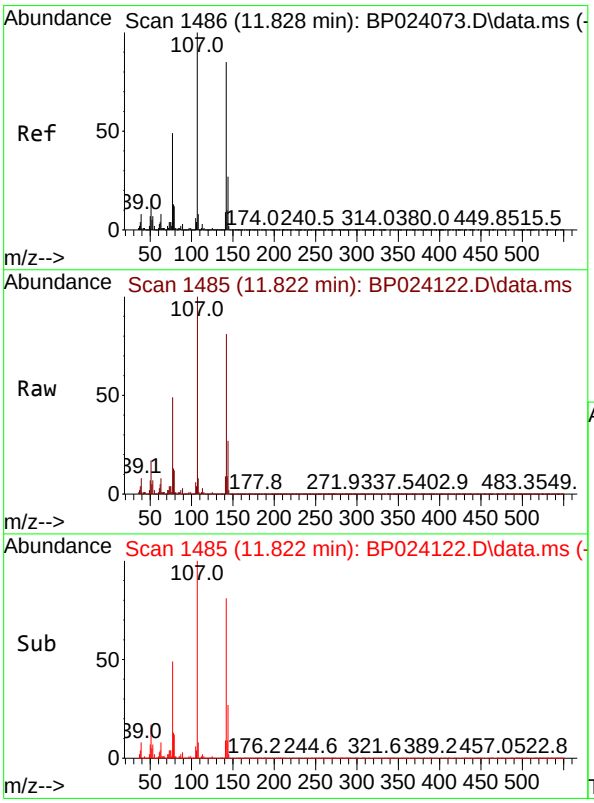
Tgt Ion:113 Resp: 4924

Ion	Ratio	Lower	Upper
113	100		
55	145.2	108.8	148.8
56	104.7	76.5	116.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

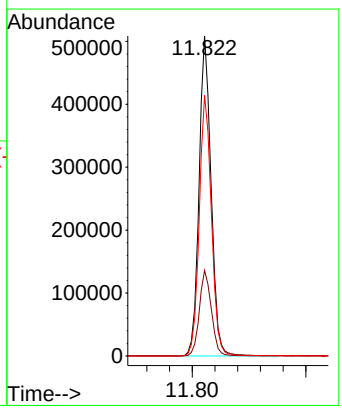
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

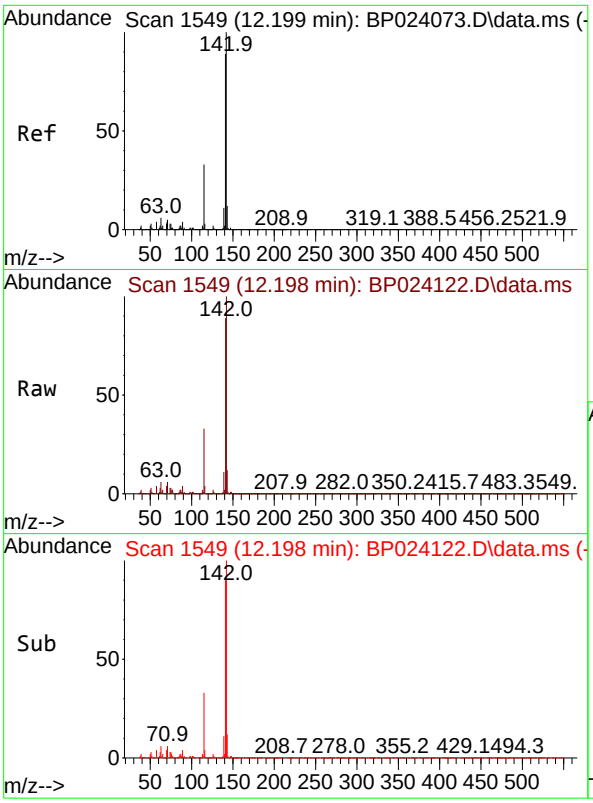


#36
4-Chloro-3-methylphenol
Concen: 44.480 ng
RT: 11.822 min Scan# 1485
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:107 Resp: 748050

Ion	Ratio	Lower	Upper
107	100		
144	26.8	21.8	32.8
142	81.4	67.8	101.8

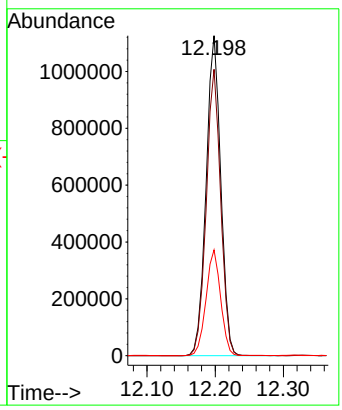




#37
2-Methylnaphthalene
Concen: 41.897 ng
RT: 12.198 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:142 Resp: 168245

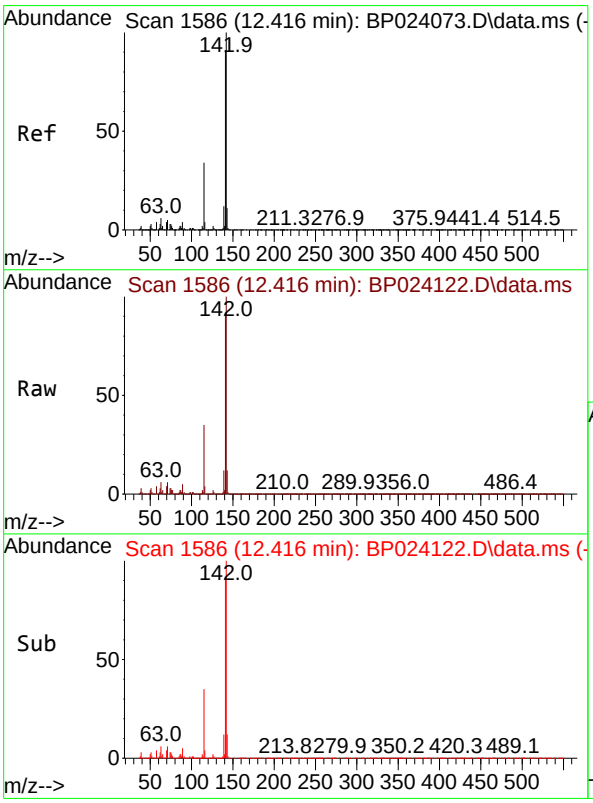
Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.2	106.8
115	33.0	26.5	39.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

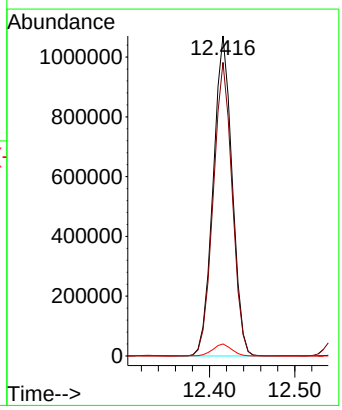
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

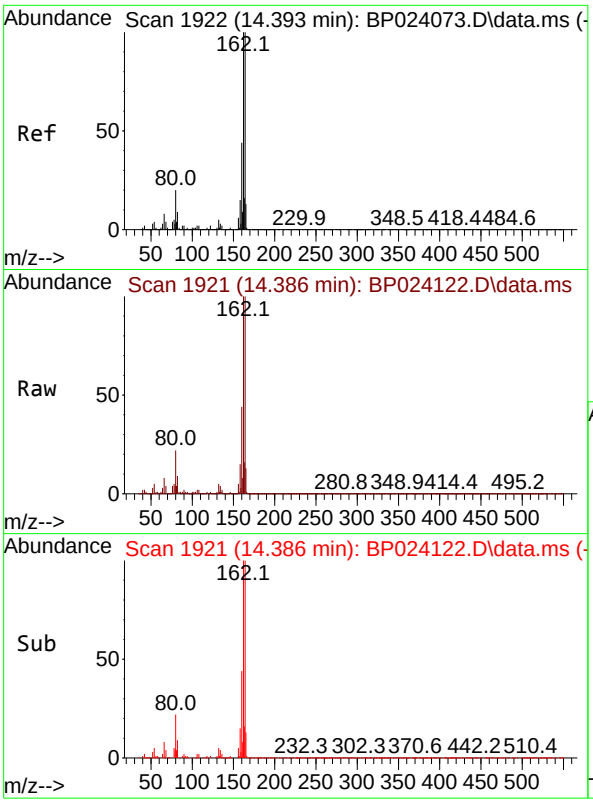


#38
1-Methylnaphthalene
Concen: 42.340 ng
RT: 12.416 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:142 Resp: 1654059

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.0	109.6
116	3.8	2.8	4.2

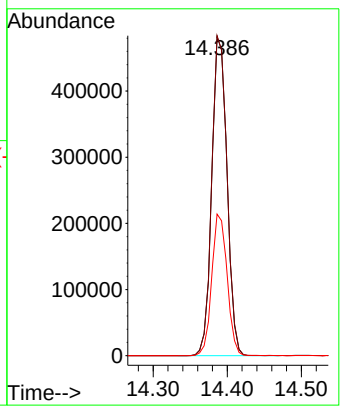




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:164 Resp: 68691

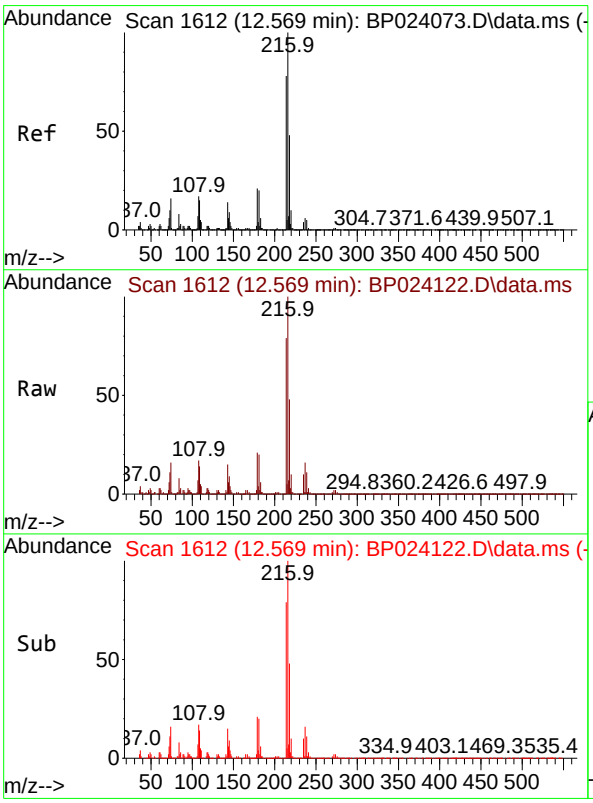
Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.1	120.1
160	44.4	35.6	53.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

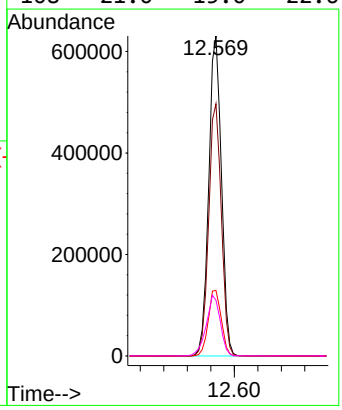
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

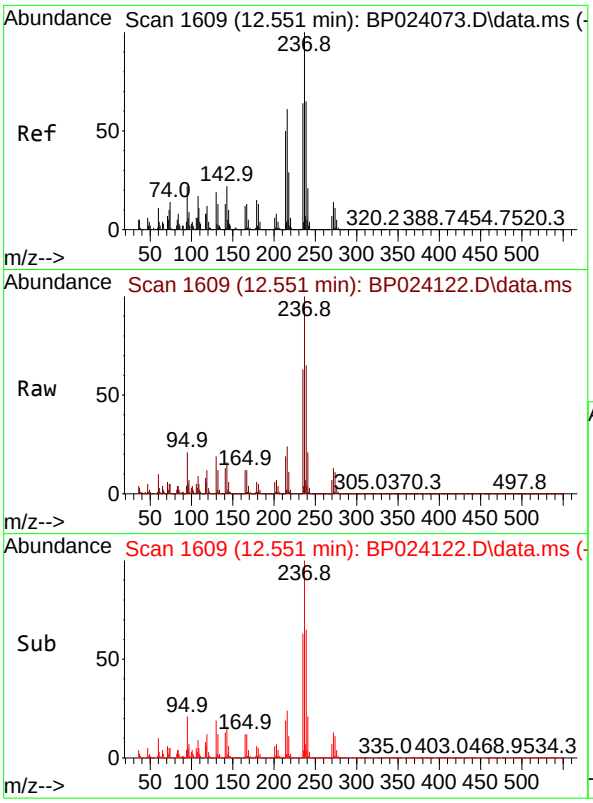


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.651 ng
RT: 12.569 min Scan# 1612
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:216 Resp: 942392

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.7	94.1
179	21.1	16.6	25.0
108	21.0	15.0	22.6

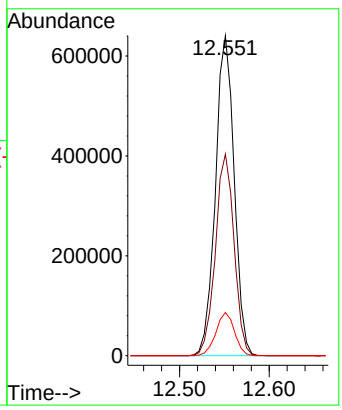




#41
Hexachlorocyclopentadiene
Concen: 118.207 ng
RT: 12.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:237 Resp: 92835

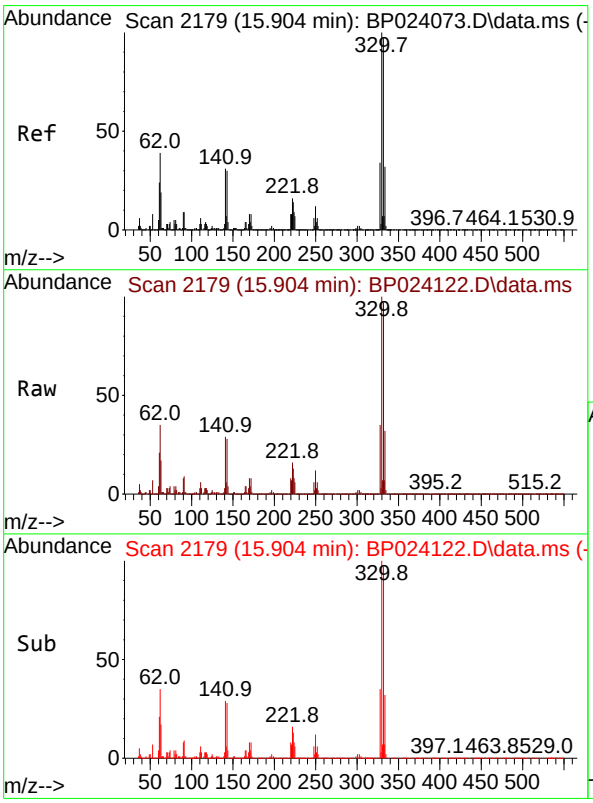
Ion	Ratio	Lower	Upper
237	100		
235	63.0	43.5	83.5
272	13.5	0.0	33.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

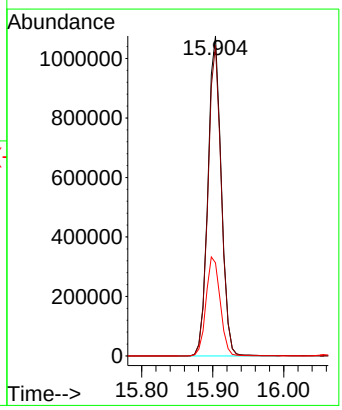
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

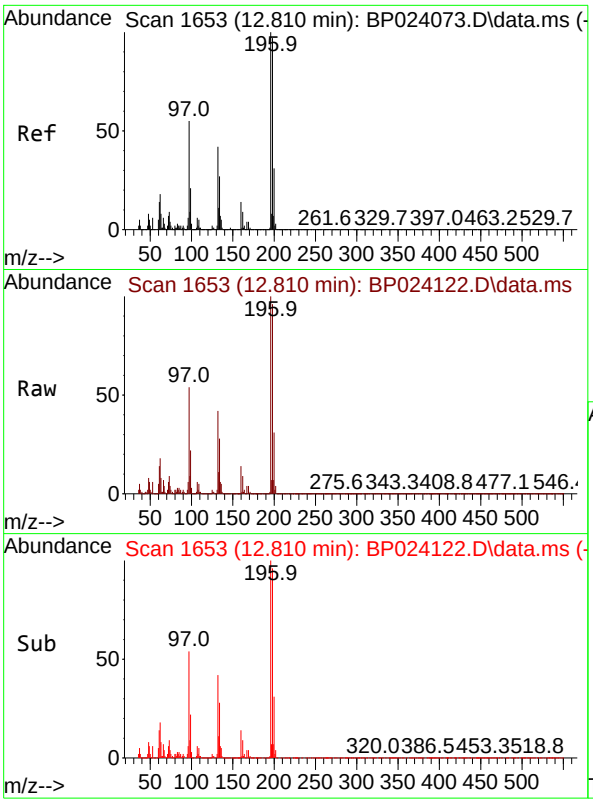


#42
2,4,6-Tribromophenol
Concen: 166.975 ng
RT: 15.904 min Scan# 2179
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:330 Resp: 1404916

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.0	115.4
141	32.8	28.3	42.5

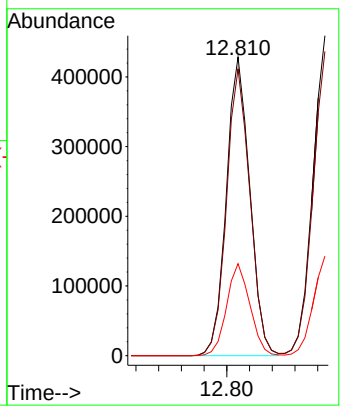




#43
2,4,6-Trichlorophenol
Concen: 47.810 ng
RT: 12.810 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:196 Resp: 61537

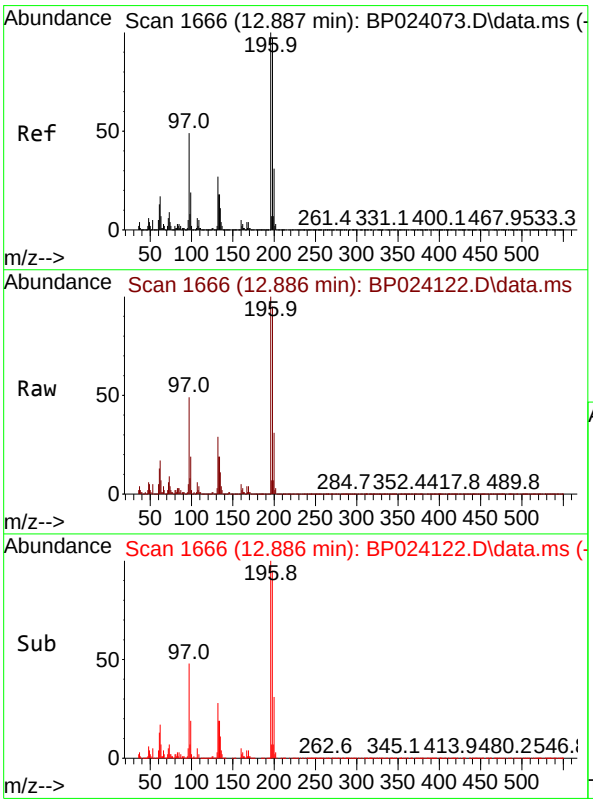
Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.8	116.6
200	30.8	25.0	37.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

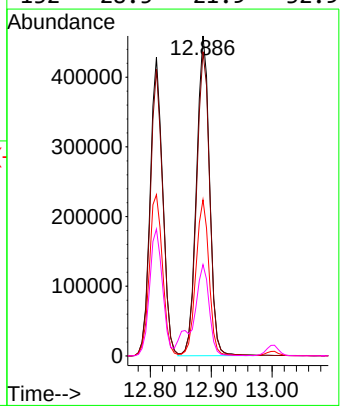
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

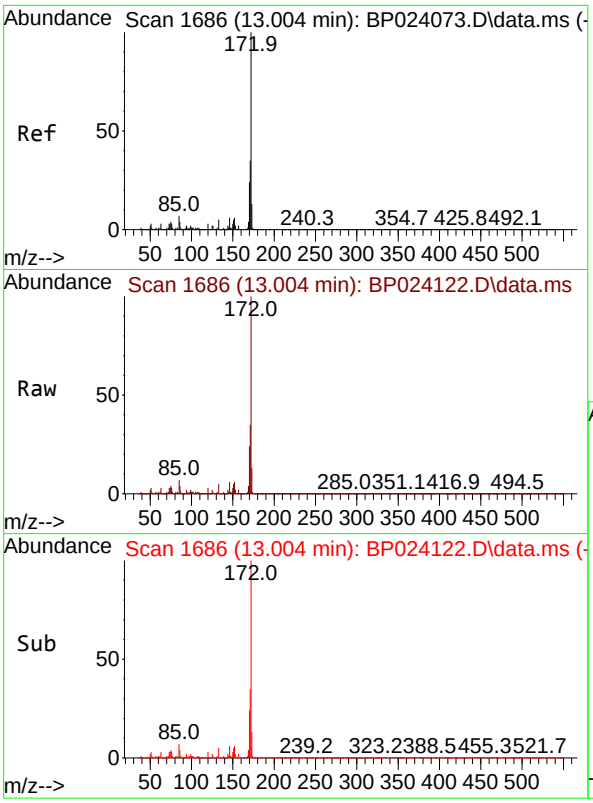


#44
2,4,5-Trichlorophenol
Concen: 48.587 ng
RT: 12.886 min Scan# 1666
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:196 Resp: 683952

Ion	Ratio	Lower	Upper
196	100		
198	95.1	77.4	116.2
97	48.8	39.0	58.4
132	28.5	21.9	32.9

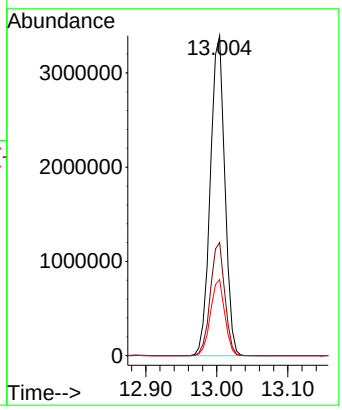




#45
2-Fluorobiphenyl
Concen: 97.798 ng
RT: 13.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:172 Resp: 480537

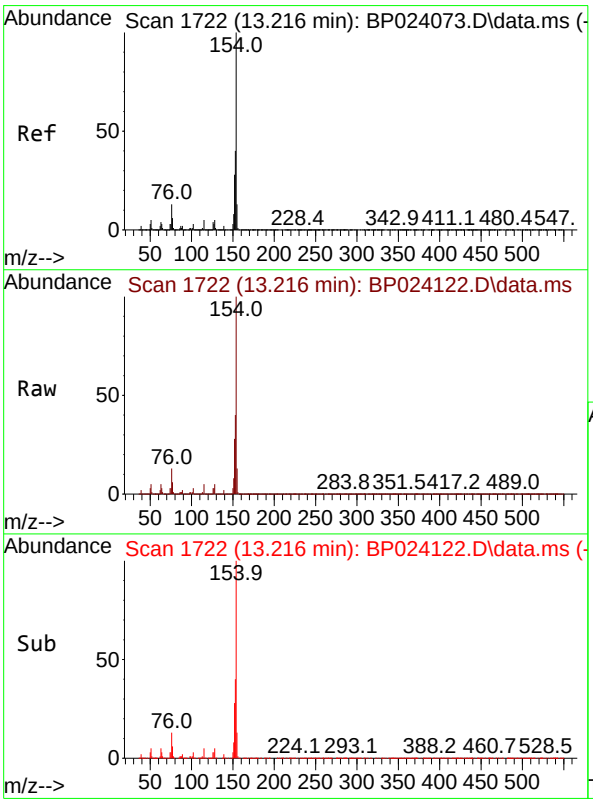
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.2
170	23.8	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

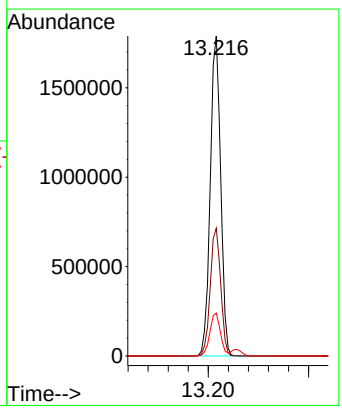
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

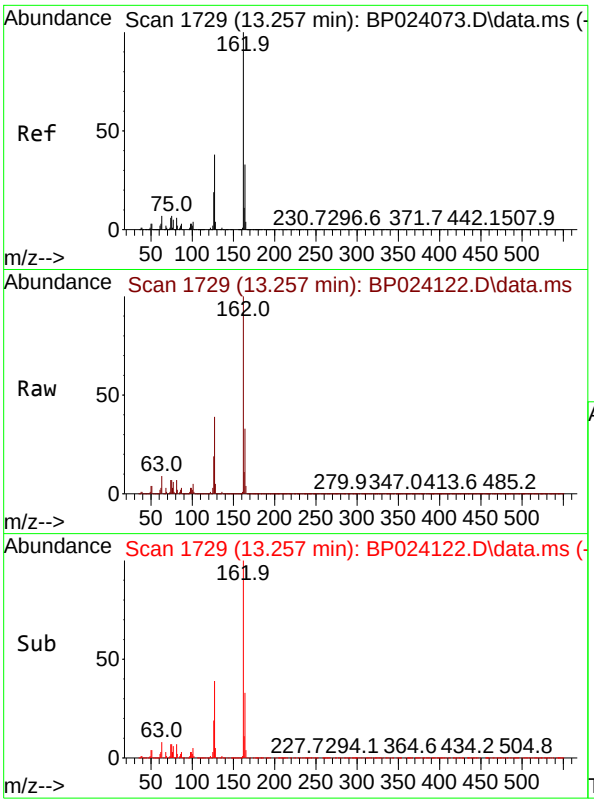


#46
1,1'-Biphenyl
Concen: 48.214 ng
RT: 13.216 min Scan# 1722
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:154 Resp: 2573531

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.0	60.0
76	13.4	0.0	32.6

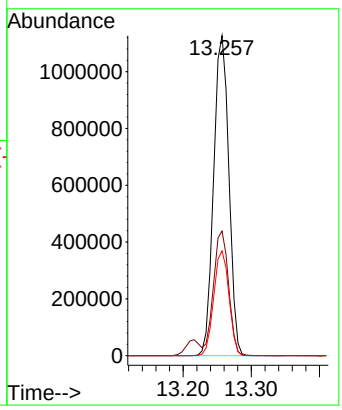




#47
2-Chloronaphthalene
Concen: 43.440 ng
RT: 13.257 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:162 Resp: 175282

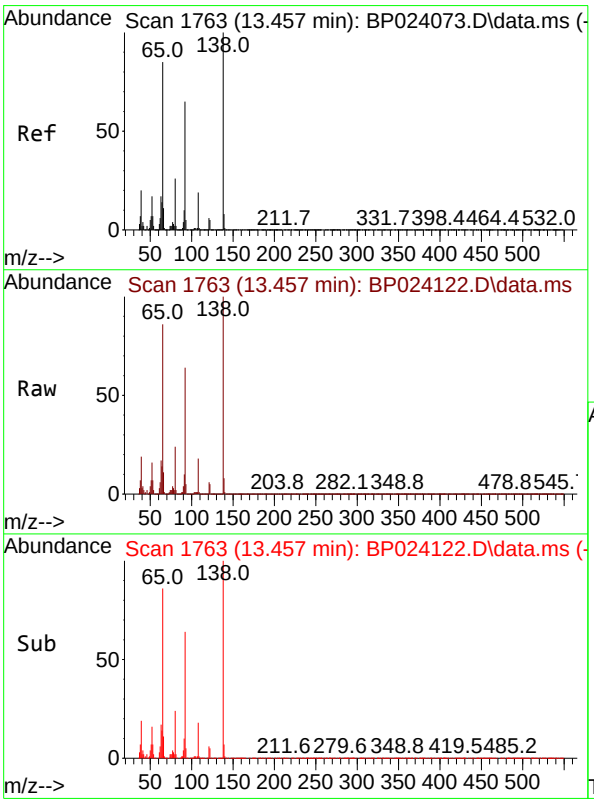
Ion	Ratio	Lower	Upper
162	100		
127	39.0	30.7	46.1
164	32.8	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

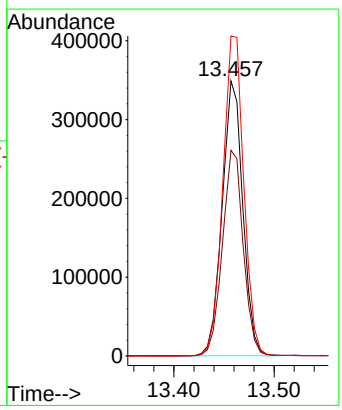
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

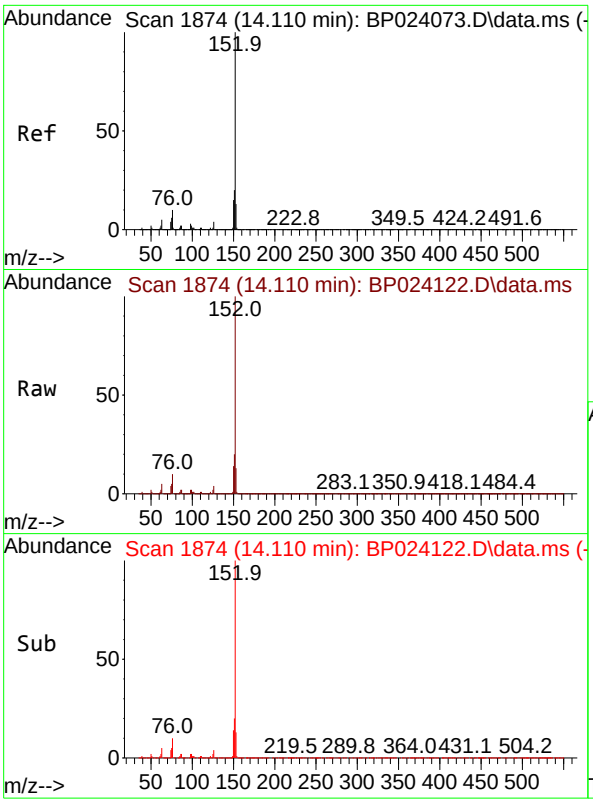


#48
2-Nitroaniline
Concen: 52.432 ng
RT: 13.457 min Scan# 1763
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 65 Resp: 499760

Ion	Ratio	Lower	Upper
65	100		
92	74.7	61.7	92.5
138	116.3	94.6	142.0

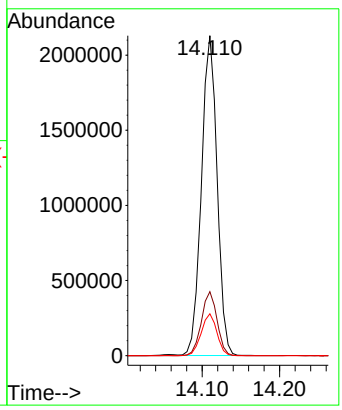




#49
Acenaphthylene
Concen: 50.309 ng
RT: 14.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:152 Resp: 299087

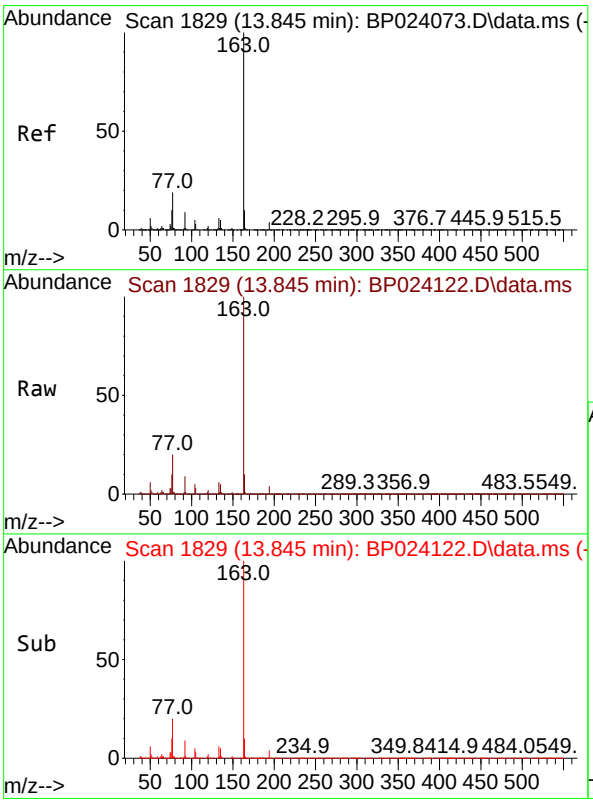
Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.8	23.8
153	13.1	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

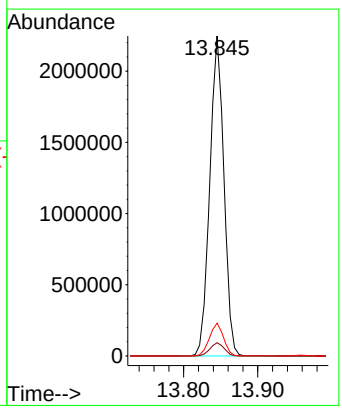
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

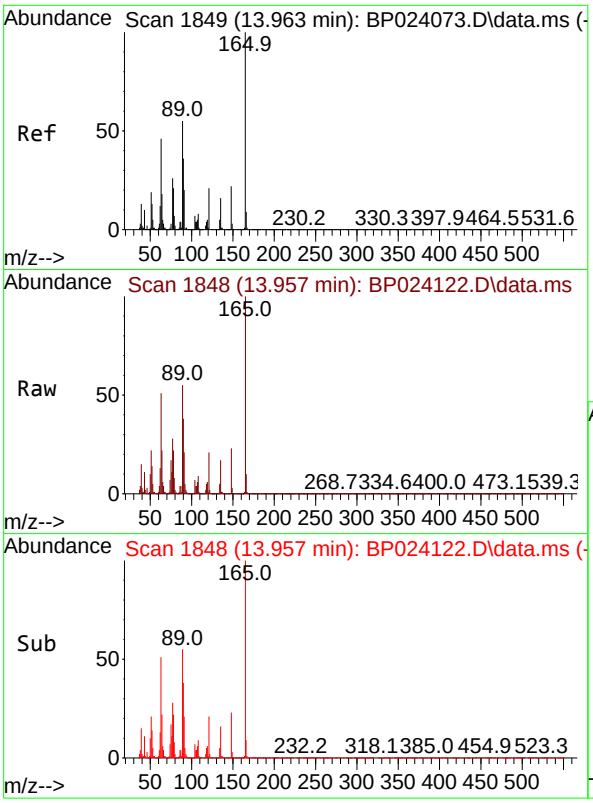


#50
Dimethylphthalate
Concen: 61.369 ng
RT: 13.845 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:163 Resp: 2973591

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.3	8.1	12.1





#51
2,6-Dinitrotoluene
Concen: 51.204 ng
RT: 13.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

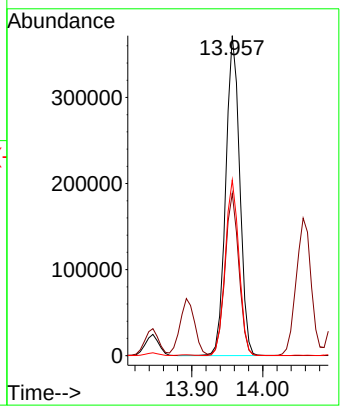
Tgt Ion:165 Resp: 505399

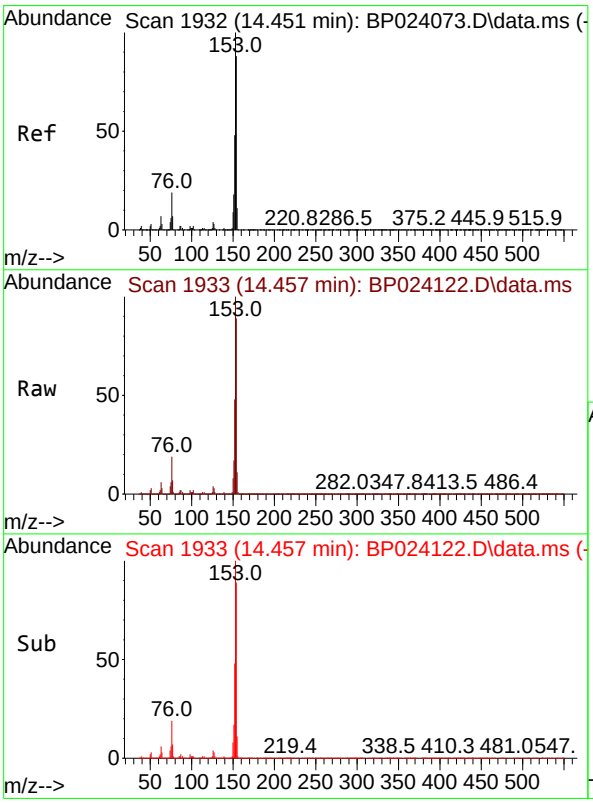
Ion	Ratio	Lower	Upper
165	100		
63	50.7	40.1	60.1
89	54.9	44.2	66.4

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

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

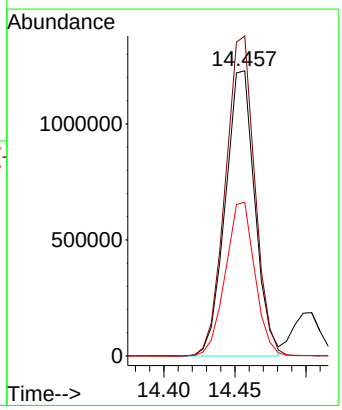


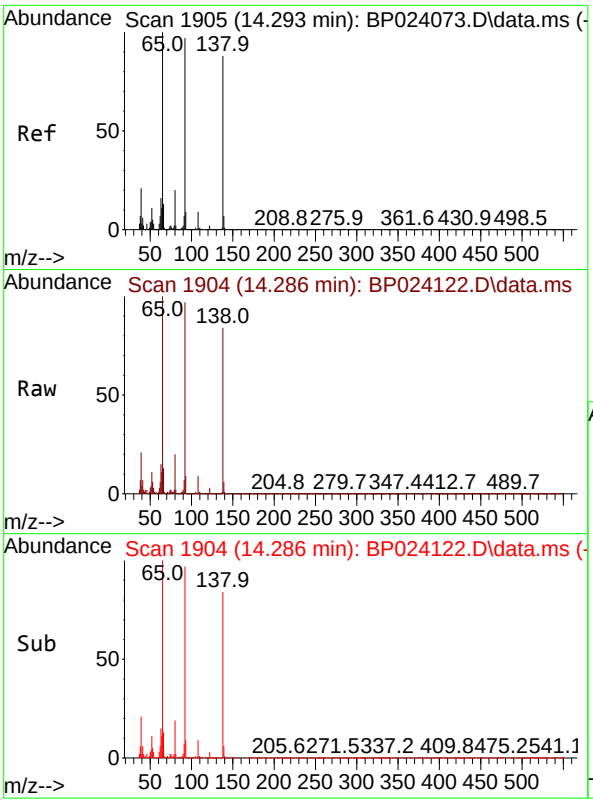


#52
Acenaphthene
Concen: 46.459 ng
RT: 14.457 min Scan# 1933
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:154 Resp: 1778611

Ion	Ratio	Lower	Upper
154	100		
153	112.2	90.6	135.8
152	53.9	43.6	65.4





#53
3-Nitroaniline
Concen: 24.685 ng
RT: 14.286 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

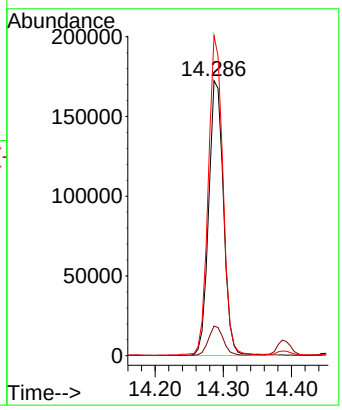
Tgt Ion:138 Resp: 25999

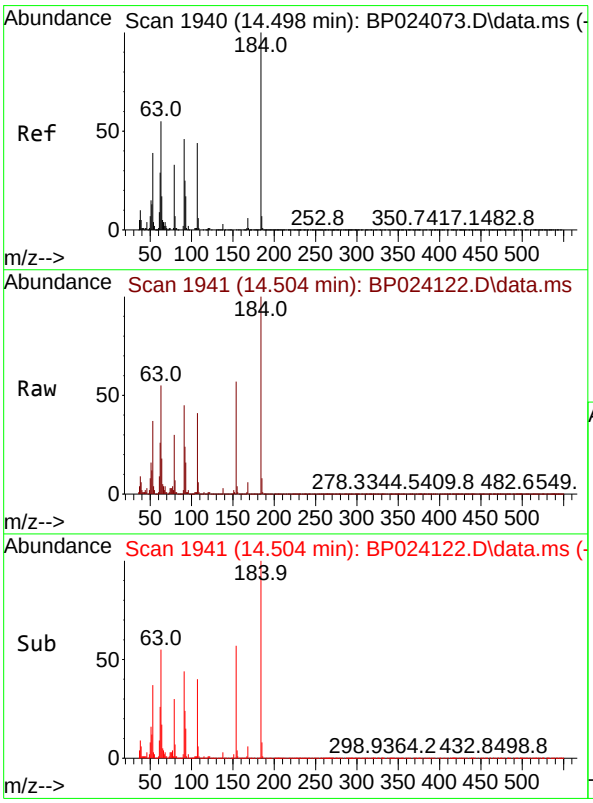
Ion	Ratio	Lower	Upper
138	100		
108	10.8	7.8	11.8
92	116.3	88.4	132.6

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

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

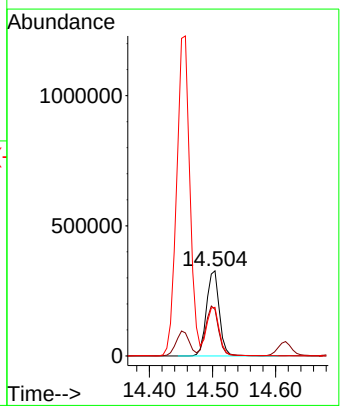


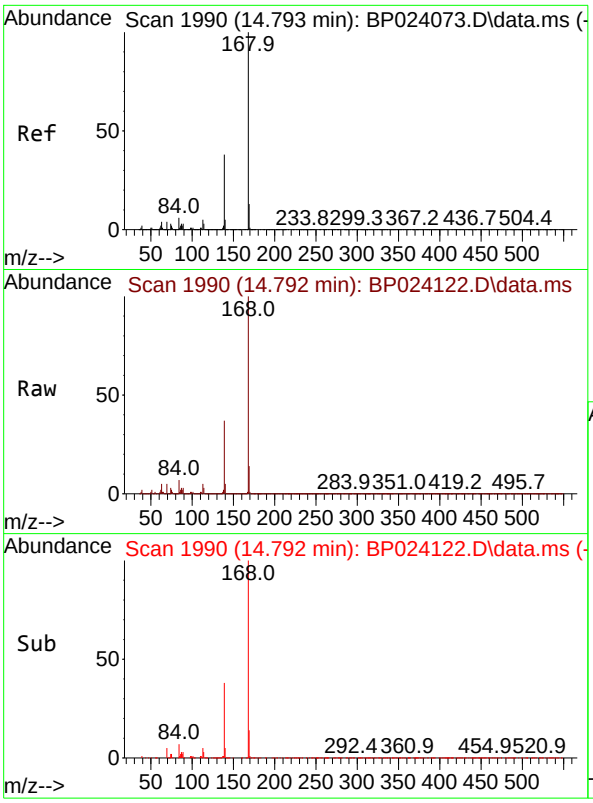


#54
2,4-Dinitrophenol
Concen: 71.938 ng
RT: 14.504 min Scan# 1941
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:184 Resp: 462475

Ion	Ratio	Lower	Upper
184	100		
63	54.6	49.4	74.0
154	57.2	49.2	73.8

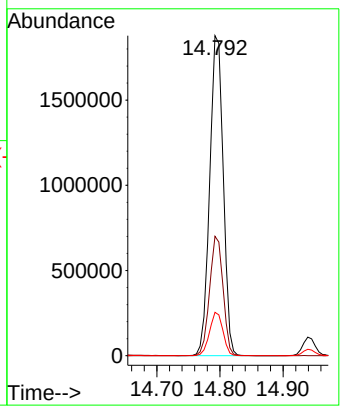




#55
Dibenzofuran
Concen: 44.904 ng
RT: 14.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:168 Resp: 279262

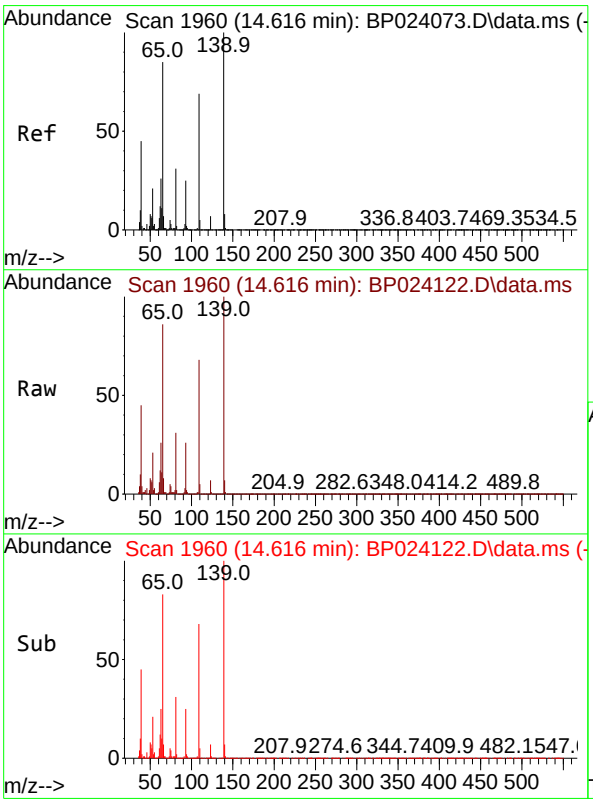
Ion	Ratio	Lower	Upper
168	100		
139	37.3	30.2	45.2
169	13.6	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

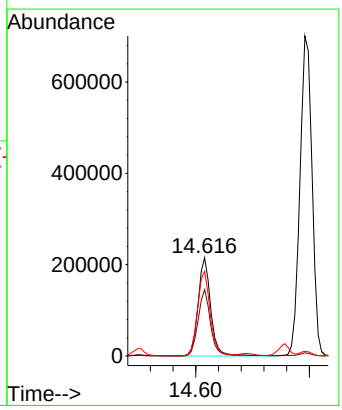
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

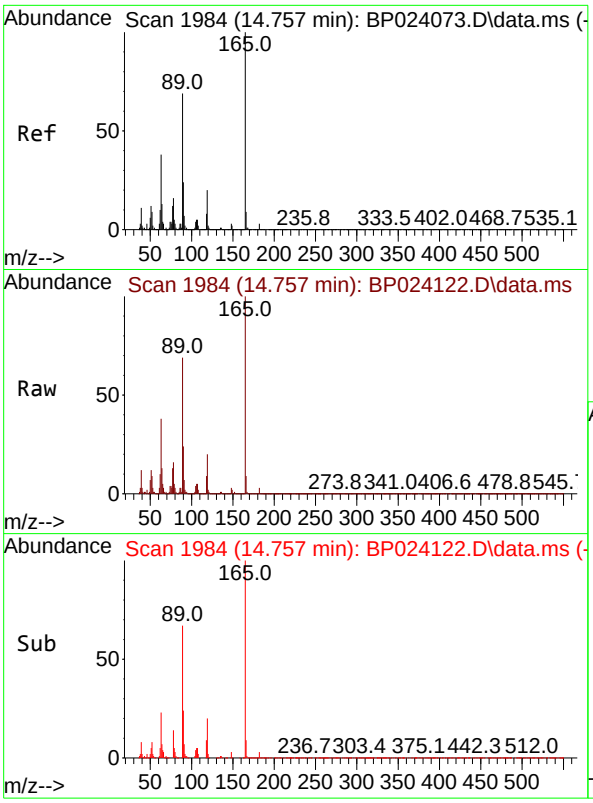


#56
4-Nitrophenol
Concen: 36.194 ng
RT: 14.616 min Scan# 1960
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:139 Resp: 329289

Ion	Ratio	Lower	Upper
139	100		
109	67.6	49.2	89.2
65	86.1	65.4	105.4

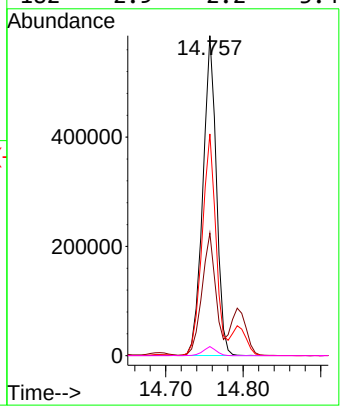




#57
2,4-Dinitrotoluene
Concen: 55.288 ng
RT: 14.757 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:165 Resp: 70889

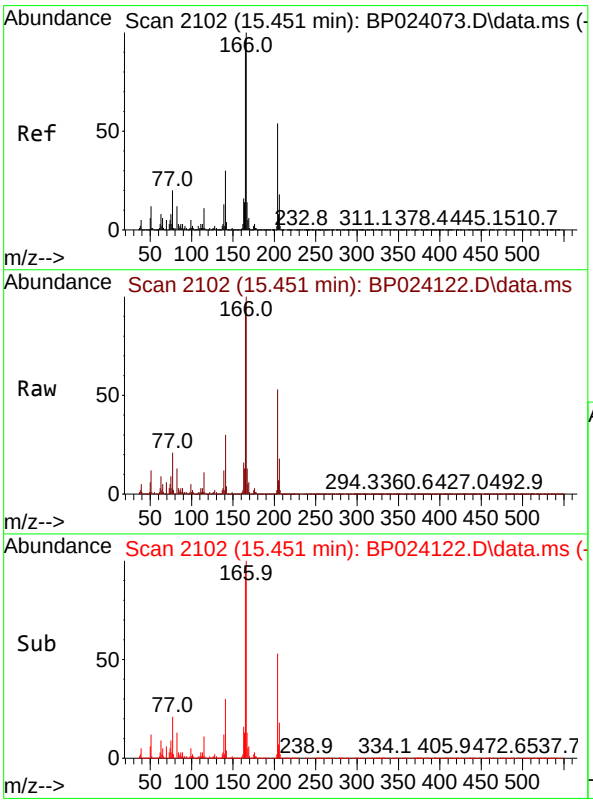
Ion	Ratio	Lower	Upper
165	100		
63	38.3	30.4	45.6
89	69.3	54.8	82.2
182	2.9	2.2	3.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

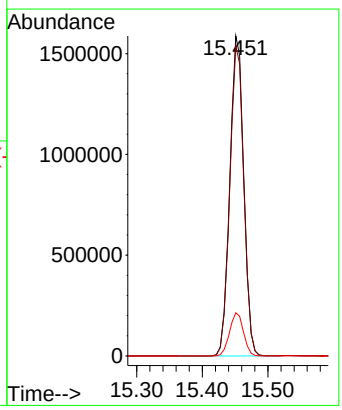
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

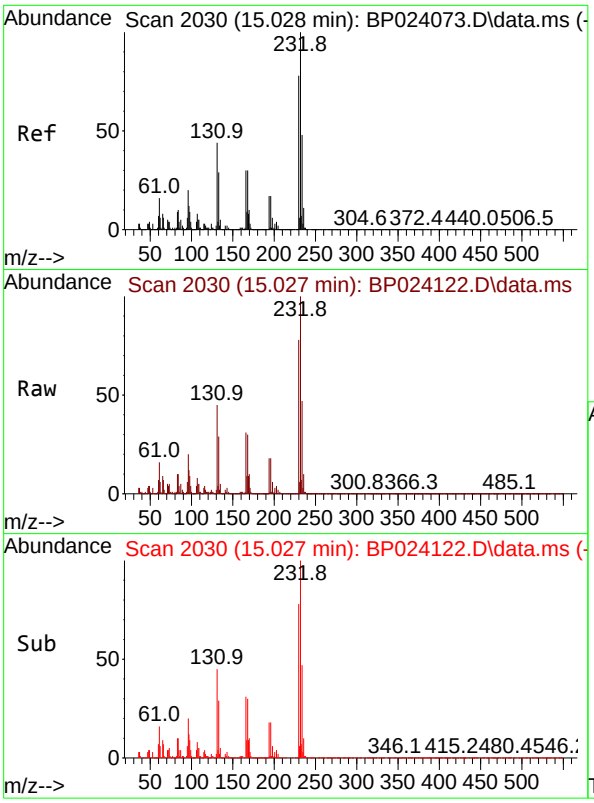


#58
Fluorene
Concen: 48.237 ng
RT: 15.451 min Scan# 2102
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:166 Resp: 2342849

Ion	Ratio	Lower	Upper
166	100		
165	96.8	77.5	116.3
167	13.5	10.9	16.3

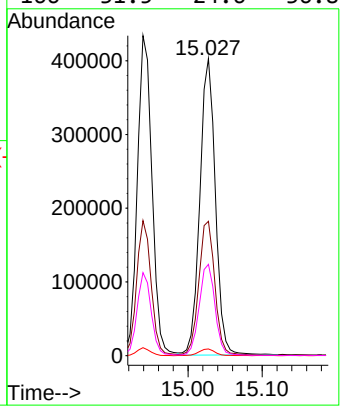




#59
2,3,4,6-Tetrachlorophenol
Concen: 48.073 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:232 Resp: 58712

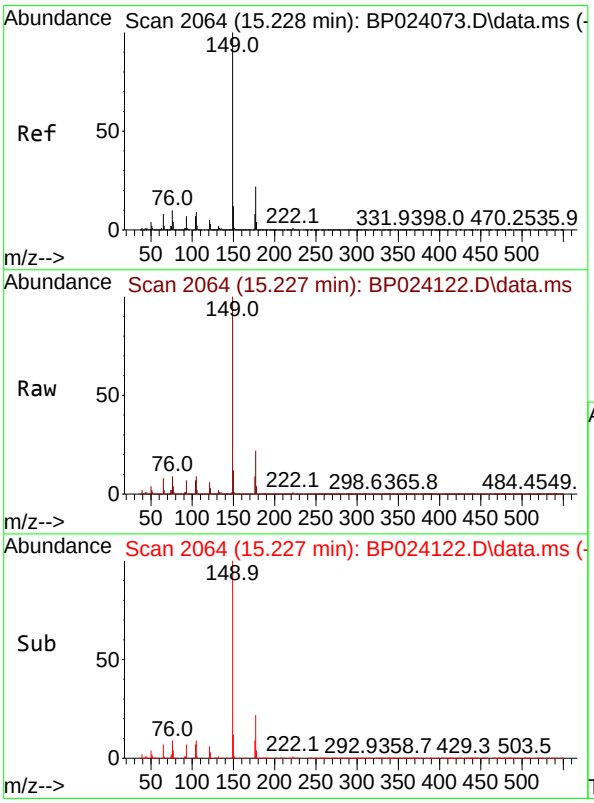
Ion	Ratio	Lower	Upper
232	100		
131	46.8	37.3	55.9
130	2.4	1.9	2.9
166	31.5	24.6	36.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

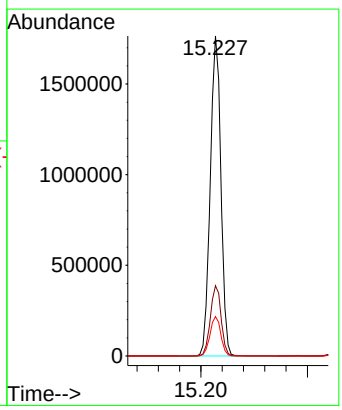
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

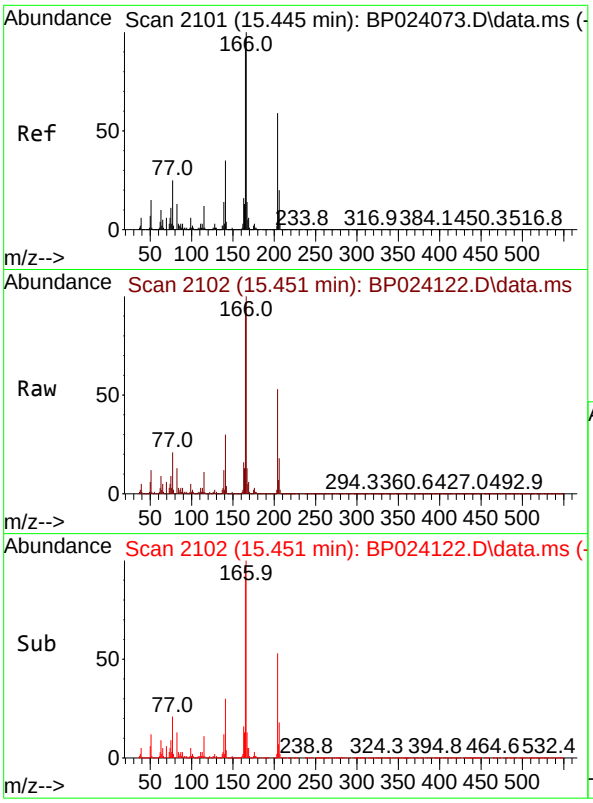


#60
Diethylphthalate
Concen: 50.855 ng
RT: 15.227 min Scan# 2064
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:149 Resp: 2446095

Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.9	26.9
150	12.3	9.8	14.6

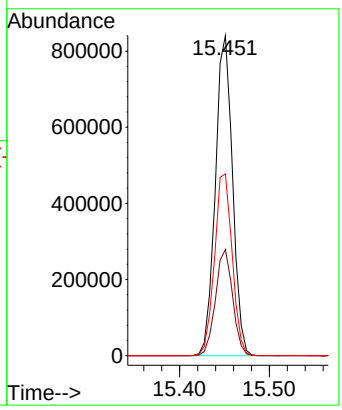




#61
4-Chlorophenyl-phenylether
Concen: 46.790 ng
RT: 15.451 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:204 Resp: 111860

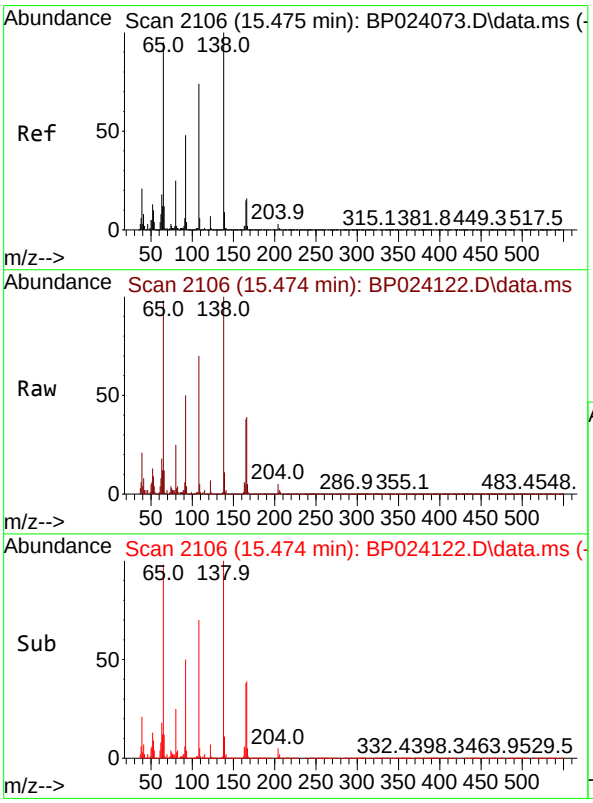
Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	39.8
141	56.8	47.8	71.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

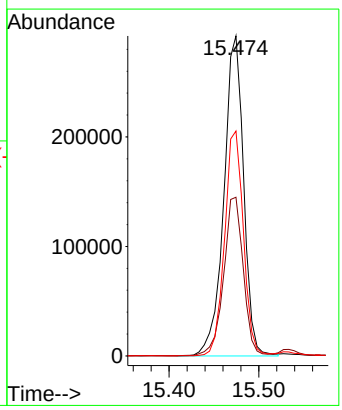
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

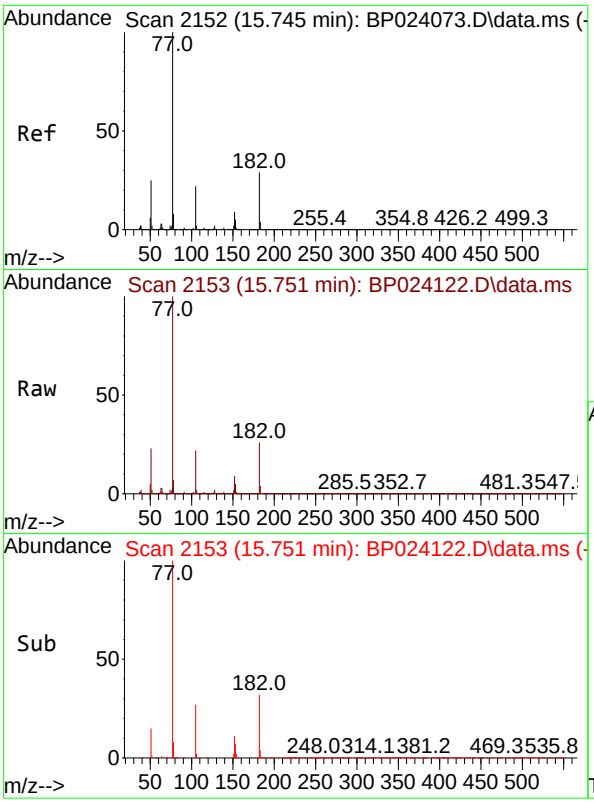


#62
4-Nitroaniline
Concen: 36.575 ng
RT: 15.474 min Scan# 2106
Delta R.T. -0.001 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:138 Resp: 445588

Ion	Ratio	Lower	Upper
138	100		
92	49.6	28.3	68.3
108	70.3	54.0	94.0

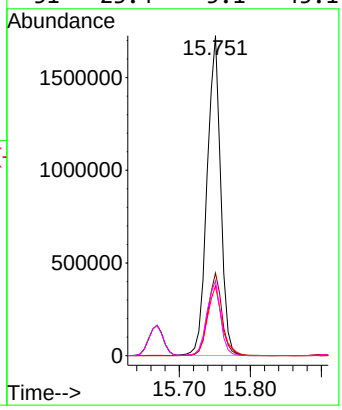




#63
Azobenzene
Concen: 50.820 ng
RT: 15.751 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion: 77 Resp: 229058

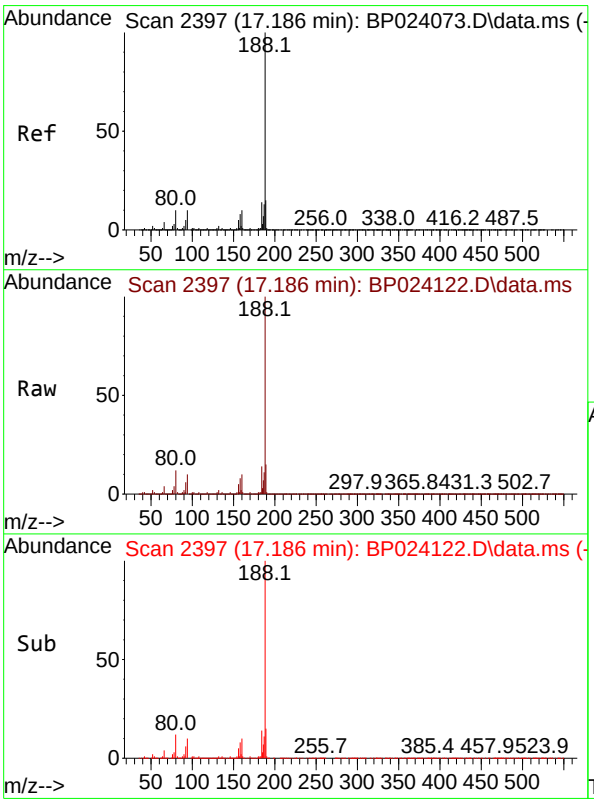
Ion	Ratio	Lower	Upper
77	100		
182	25.9	8.5	48.5
105	21.8	1.8	41.8
51	23.4	5.1	45.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

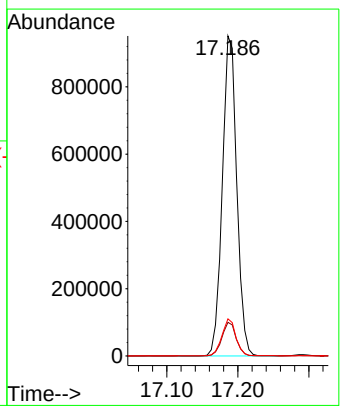
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

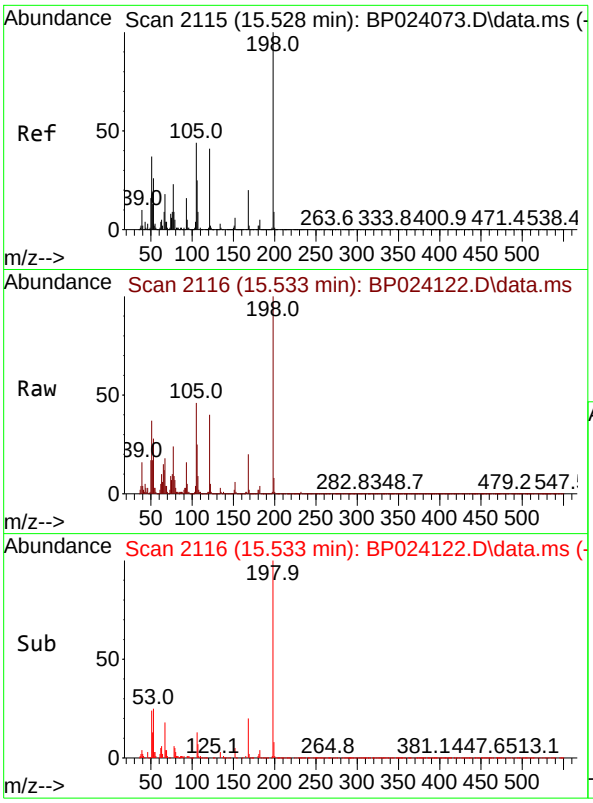


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.186 min Scan# 2397
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:188 Resp: 1334599

Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.6	11.4
80	11.6	8.2	12.2





#65
4,6-Dinitro-2-methylphenol
Concen: 37.465 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.005 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

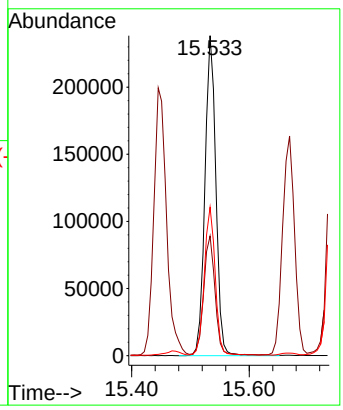
Tgt Ion:198 Resp: 30826

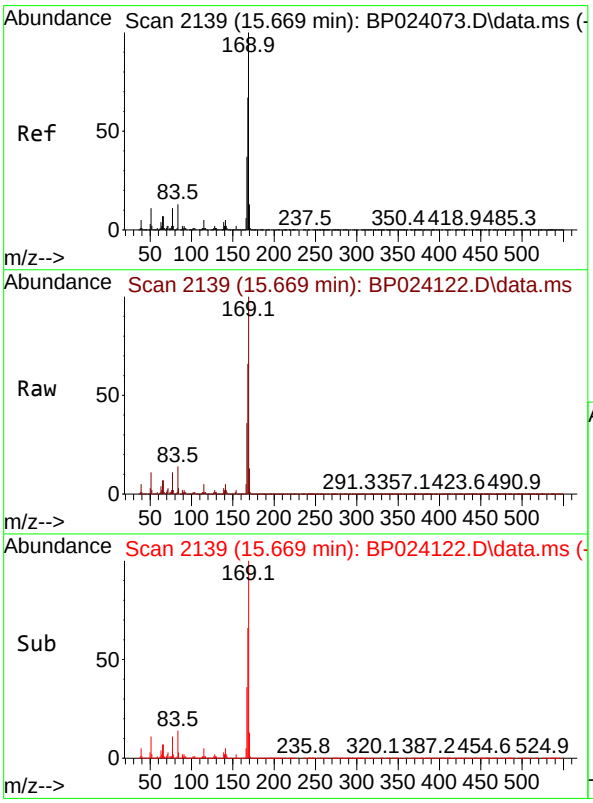
Ion	Ratio	Lower	Upper
198	100		
51	37.4	18.7	58.7
105	46.4	24.7	64.7

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

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

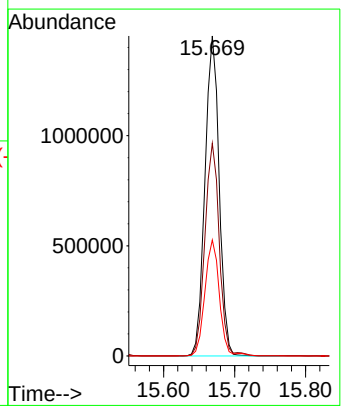


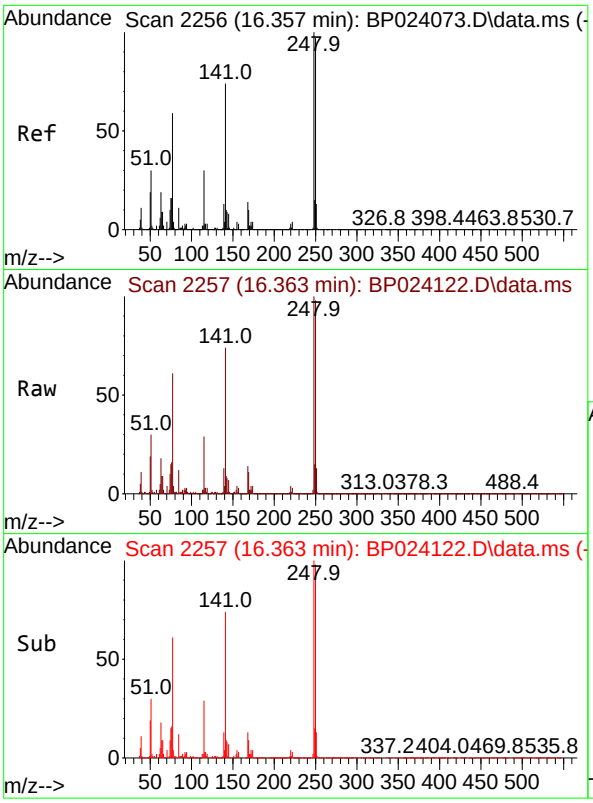


#66
n-Nitrosodiphenylamine
Concen: 48.545 ng
RT: 15.669 min Scan# 2139
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:169 Resp: 2020413

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.6	80.4
167	36.3	29.5	44.3

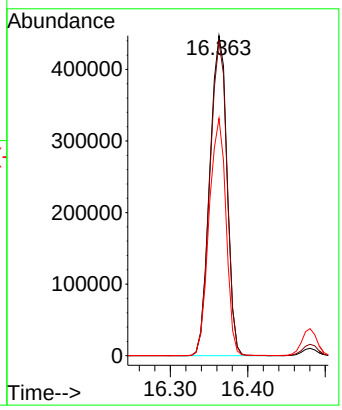




#67
4-Bromophenyl-phenylether
Concen: 45.984 ng
RT: 16.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:248 Resp: 68915

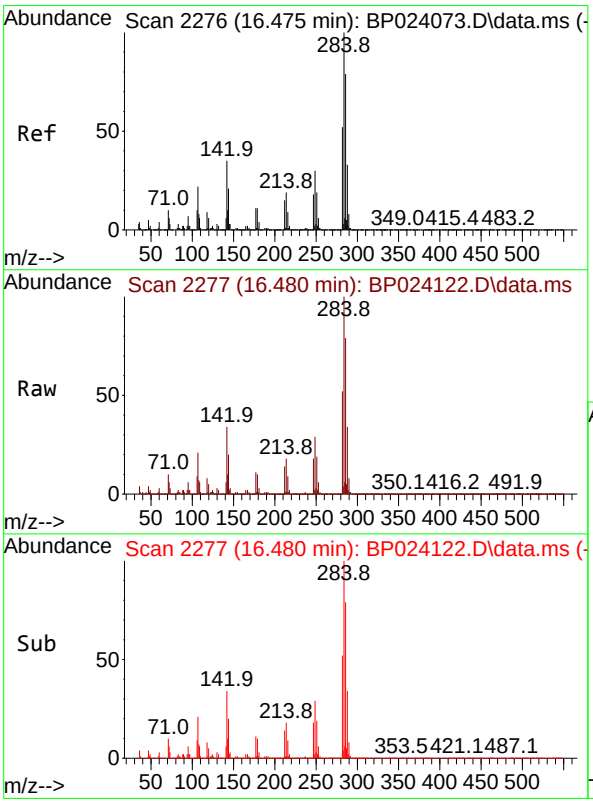
Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.9	116.9
141	74.2	58.8	88.2



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

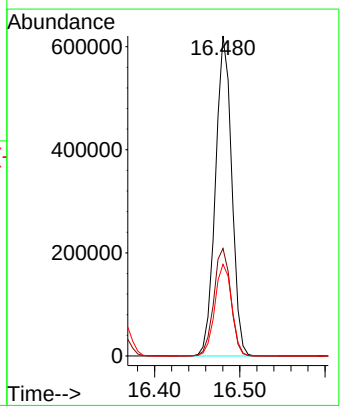
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

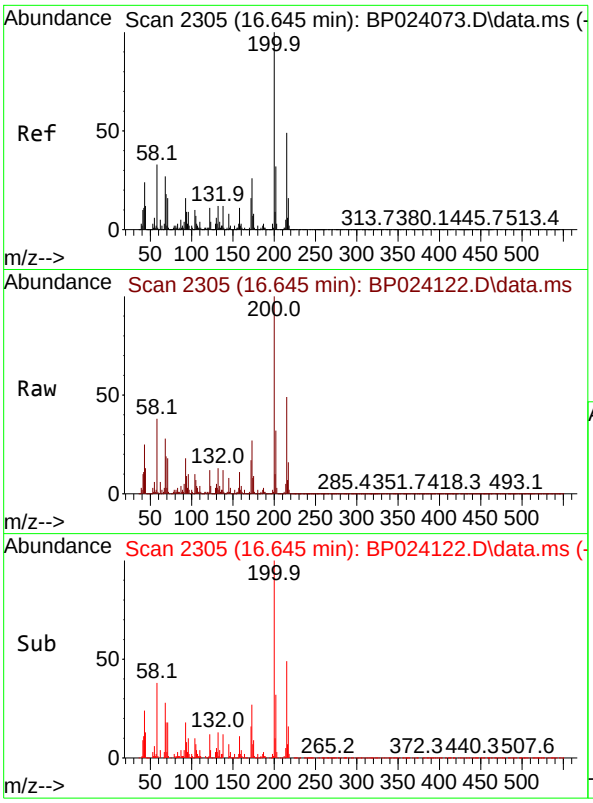


#68
Hexachlorobenzene
Concen: 46.803 ng
RT: 16.480 min Scan# 2277
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:284 Resp: 825350

Ion	Ratio	Lower	Upper
284	100		
142	33.6	27.7	41.5
249	28.6	23.8	35.6

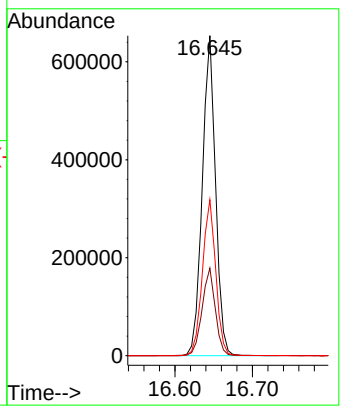




#69
Atrazine
Concen: 72.687 ng
RT: 16.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:200 Resp: 77634

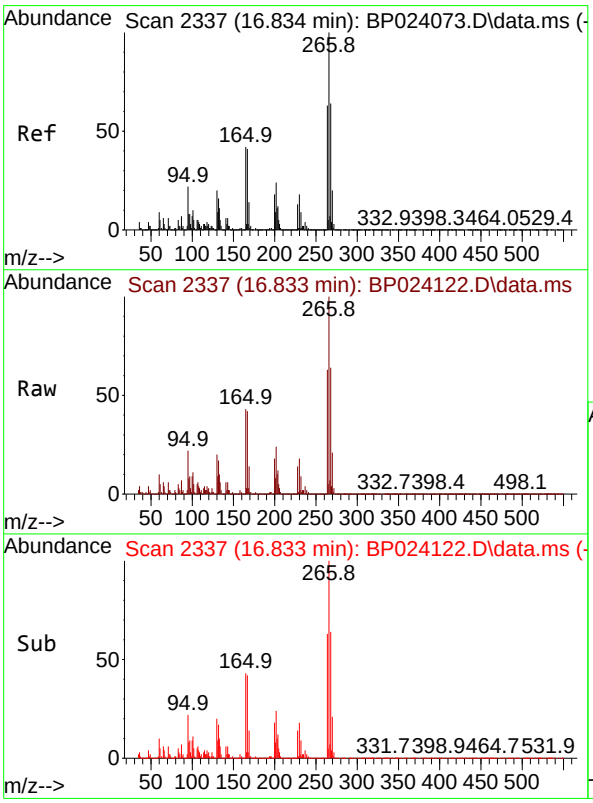
Ion	Ratio	Lower	Upper
200	100		
173	27.4	5.7	45.7
215	48.8	28.7	68.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

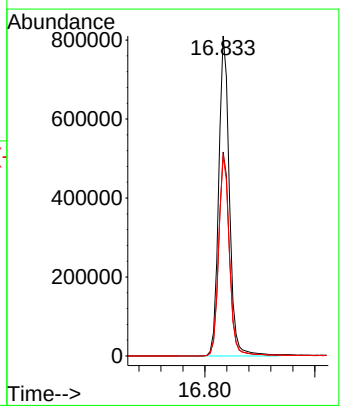
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

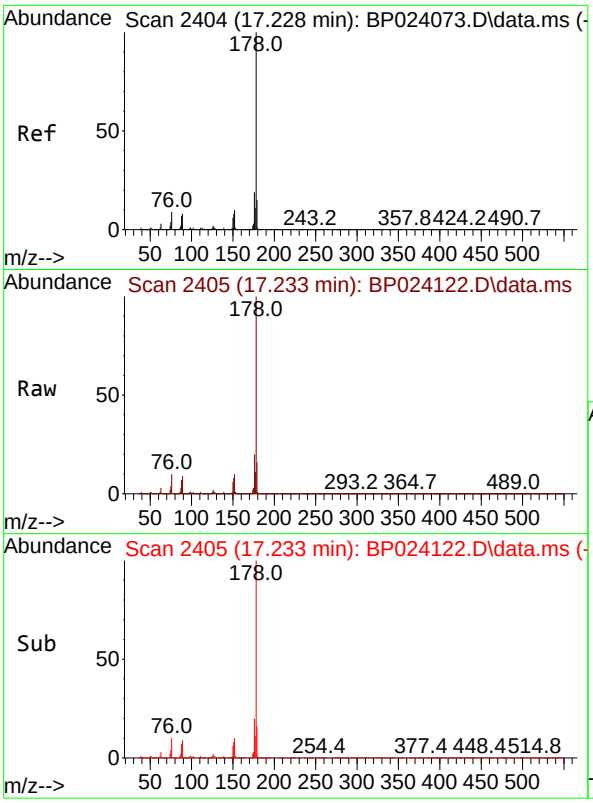


#70
Pentachlorophenol
Concen: 95.136 ng
RT: 16.833 min Scan# 2337
Delta R.T. -0.001 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:266 Resp: 1089645

Ion	Ratio	Lower	Upper
266	100		
268	63.7	51.3	76.9
264	62.6	50.5	75.7

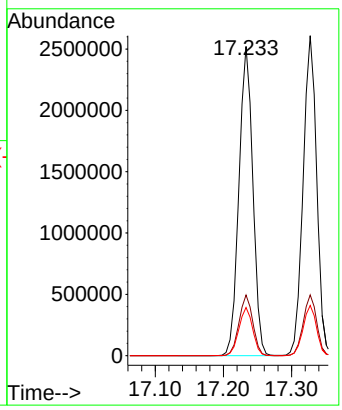




#71
Phenanthrene
Concen: 47.422 ng
RT: 17.233 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:178 Resp: 356820

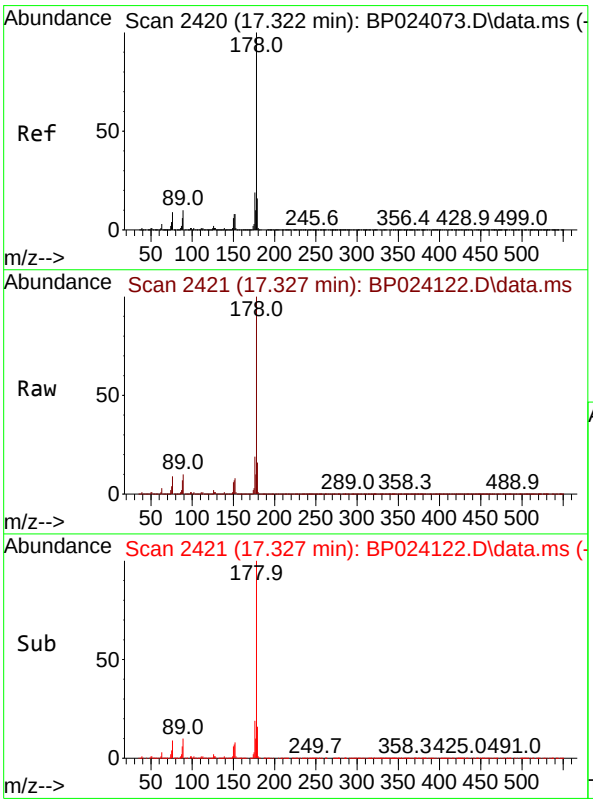
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.6	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

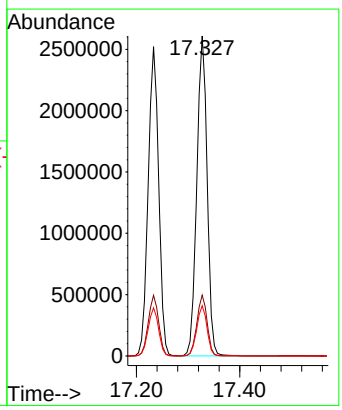
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

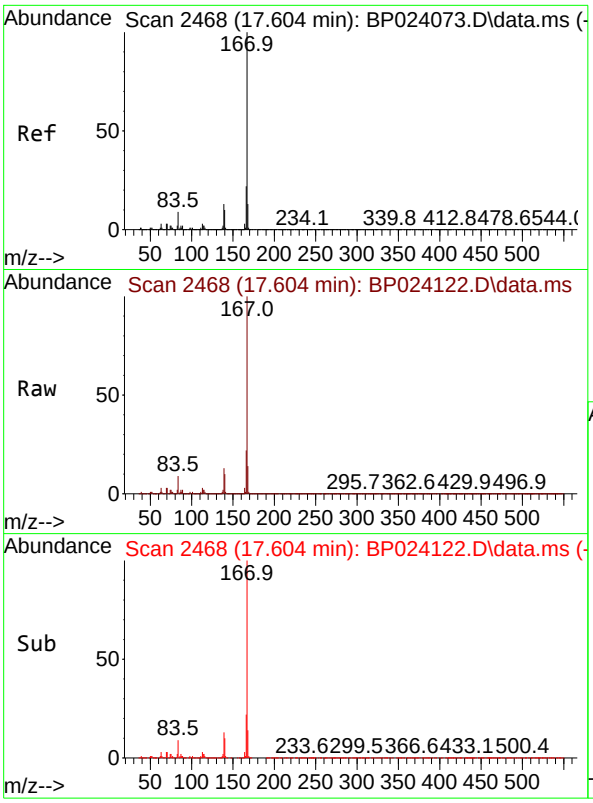


#72
Anthracene
Concen: 50.310 ng
RT: 17.327 min Scan# 2421
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:178 Resp: 3627588

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.7	12.6	19.0

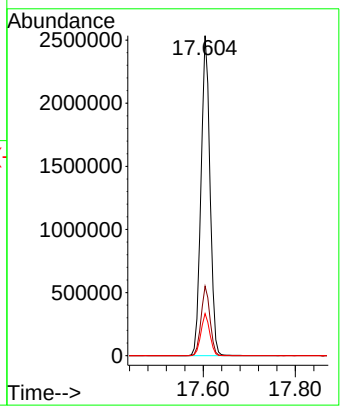




#73
Carbazole
Concen: 50.146 ng
RT: 17.604 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:167 Resp: 344500

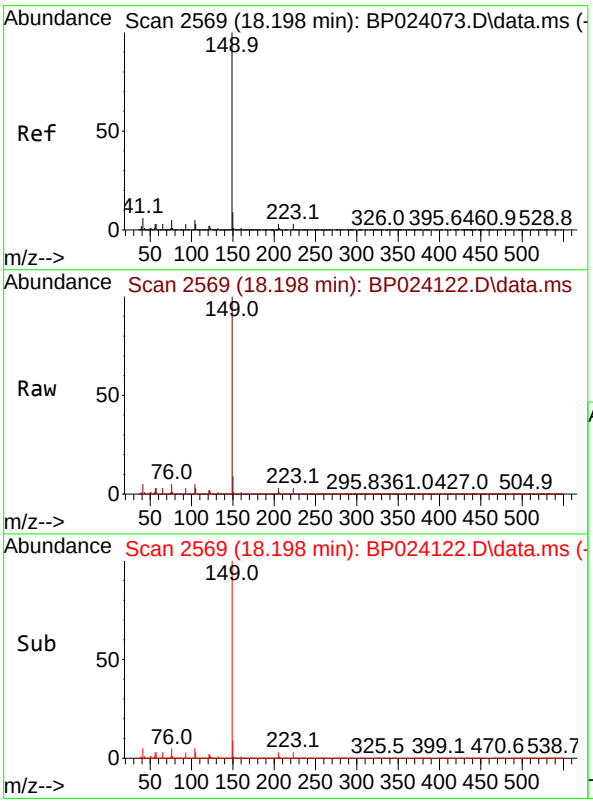
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	13.2	10.3	15.5



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

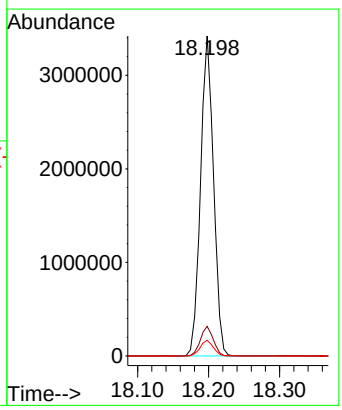
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

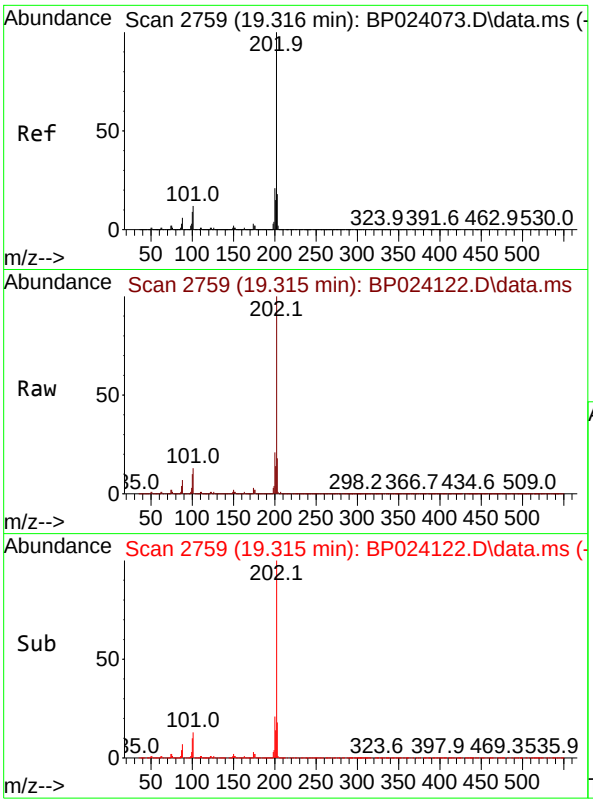


#74
Di-n-butylphthalate
Concen: 54.360 ng
RT: 18.198 min Scan# 2569
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:149 Resp: 4357526

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.9	4.2	6.2

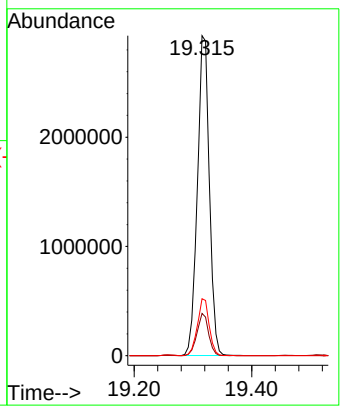




#75
Fluoranthene
Concen: 48.593 ng
RT: 19.315 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:202 Resp: 413551

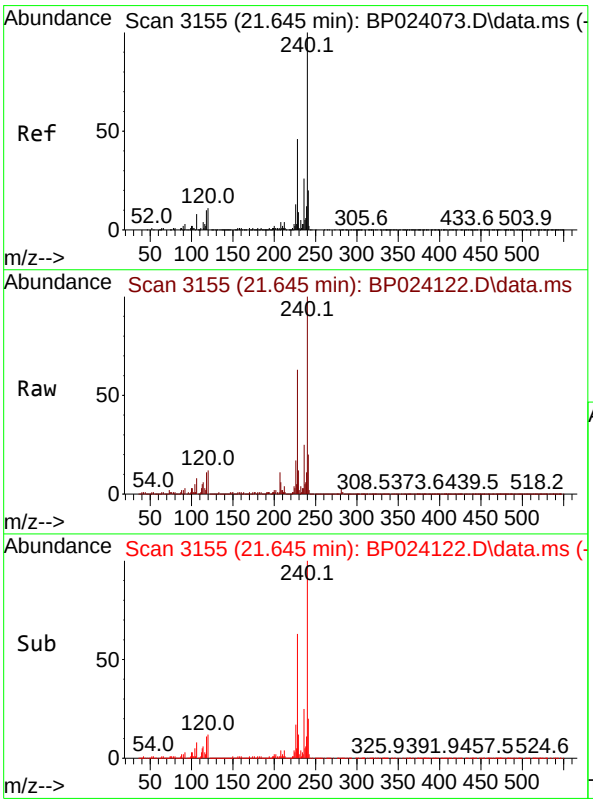
Ion	Ratio	Lower	Upper
202	100		
101	13.2	0.0	31.9
203	17.8	0.0	37.7



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

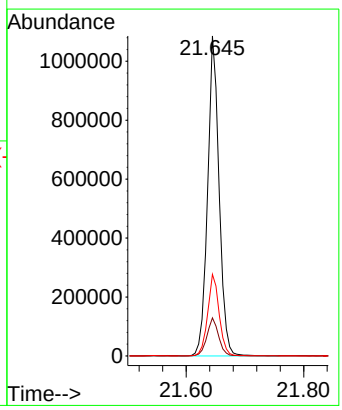
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

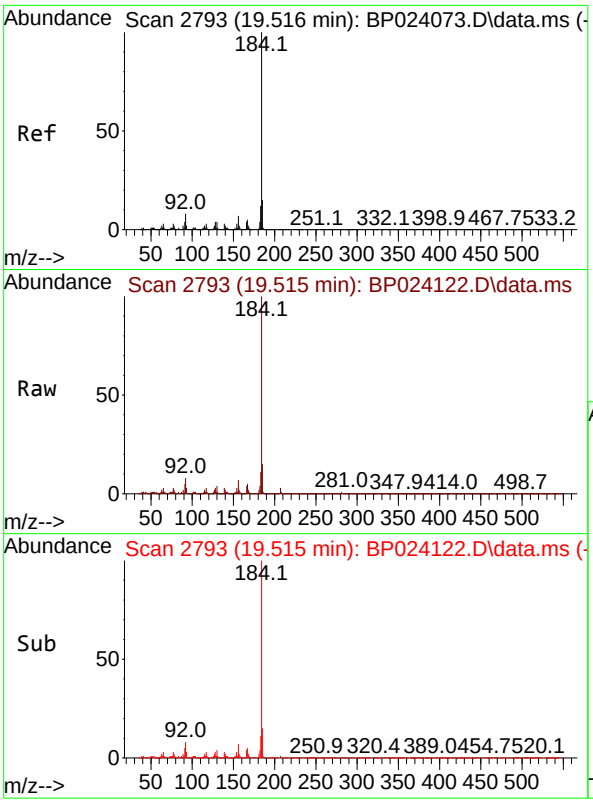


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.645 min Scan# 3155
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:240 Resp: 1469324

Ion	Ratio	Lower	Upper
240	100		
120	11.9	8.9	13.3
236	25.5	20.7	31.1

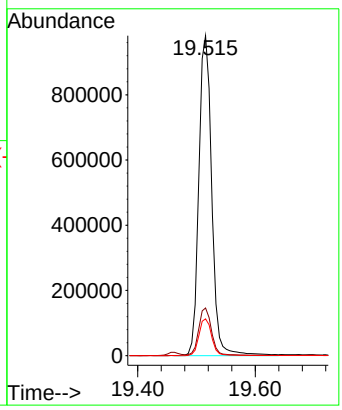




#77
Benzidine
Concen: 83.524 ng
RT: 19.515 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:184 Resp: 149546

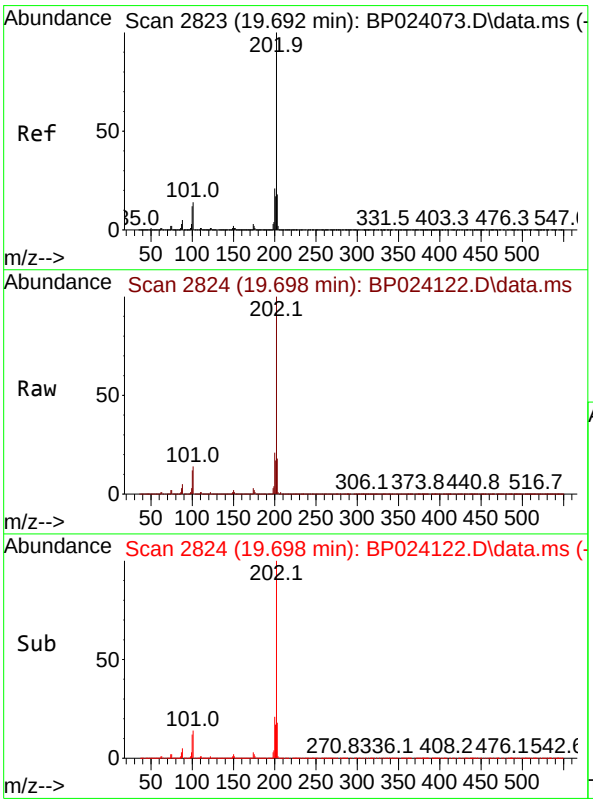
Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.8	17.8
183	11.5	9.3	13.9



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

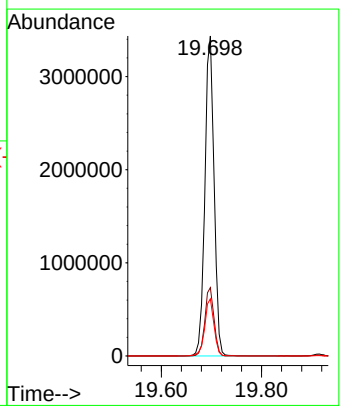
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

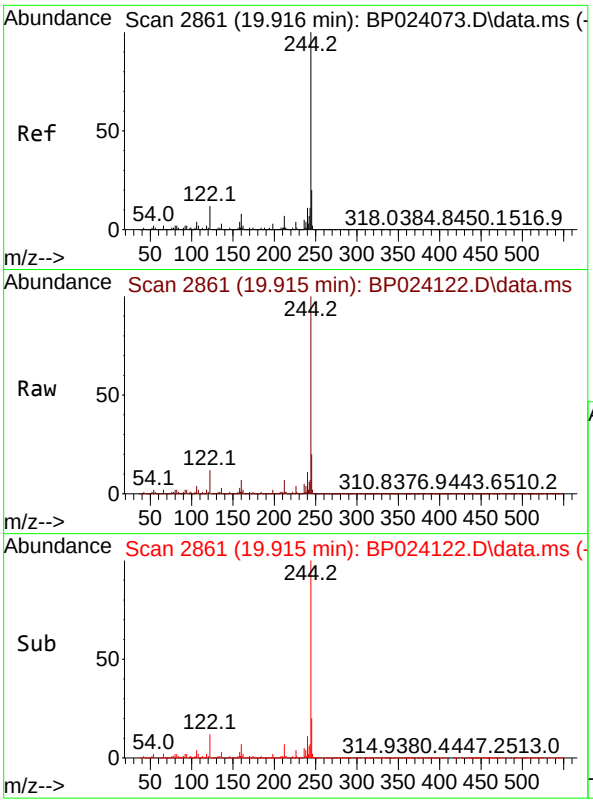


#78
Pyrene
Concen: 46.973 ng
RT: 19.698 min Scan# 2824
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:202 Resp: 4384010

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	17.8	14.4	21.6

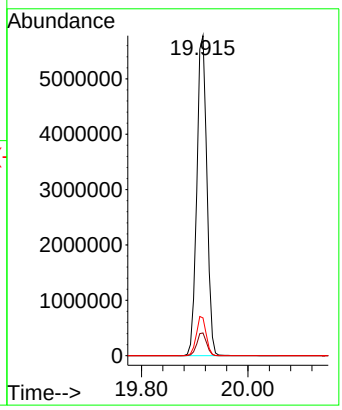




#79
Terphenyl-d14
Concen: 101.860 ng
RT: 19.915 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:244 Resp: 756364

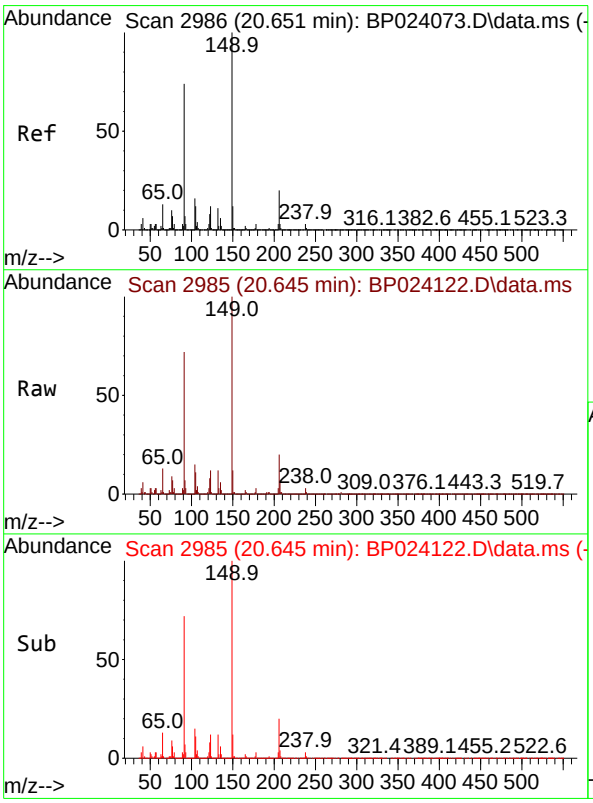
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.9	8.9
122	11.8	9.4	14.2



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

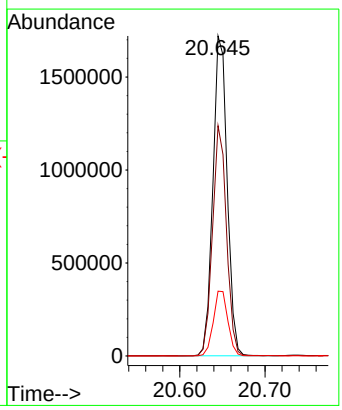
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

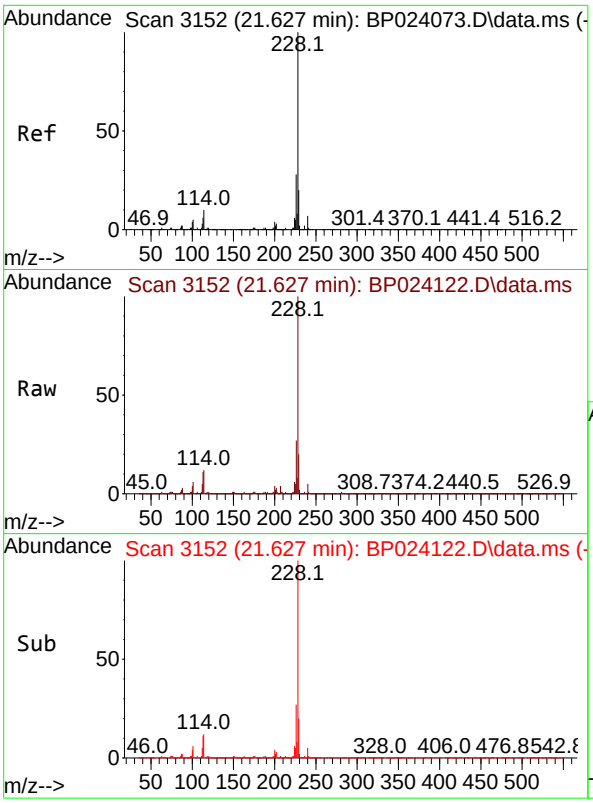


#80
Butylbenzylphthalate
Concen: 55.879 ng
RT: 20.645 min Scan# 2985
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:149 Resp: 1998428

Ion	Ratio	Lower	Upper
149	100		
91	71.9	59.4	89.0
206	20.3	16.2	24.2

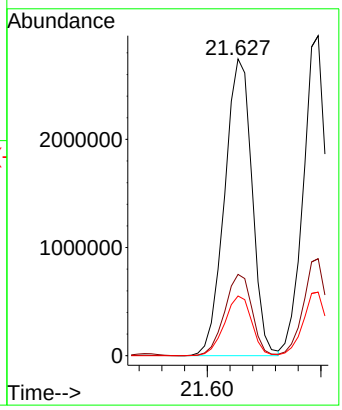




#81
Benzo(a)anthracene
Concen: 50.020 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:228 Resp: 460851

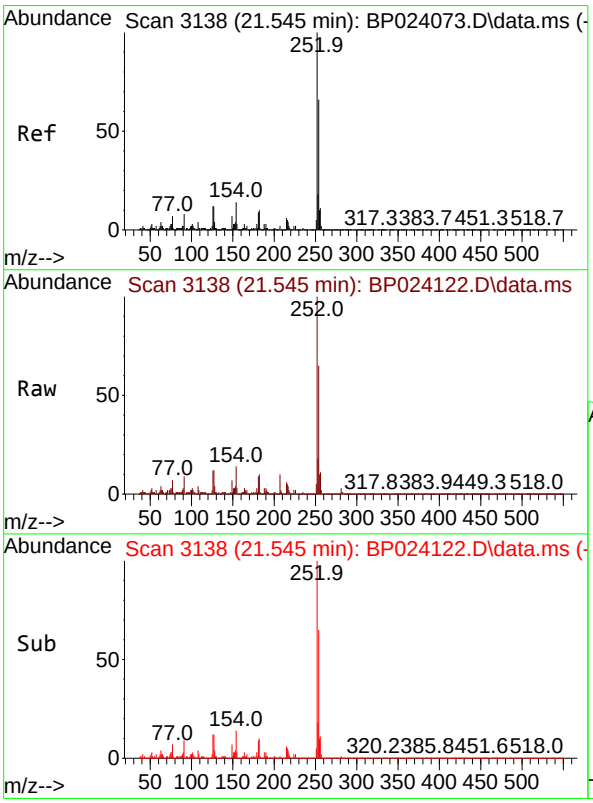
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	20.1	15.8	23.8



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

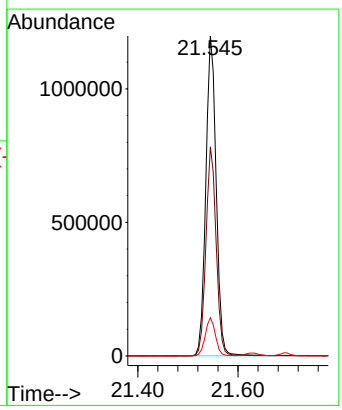
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

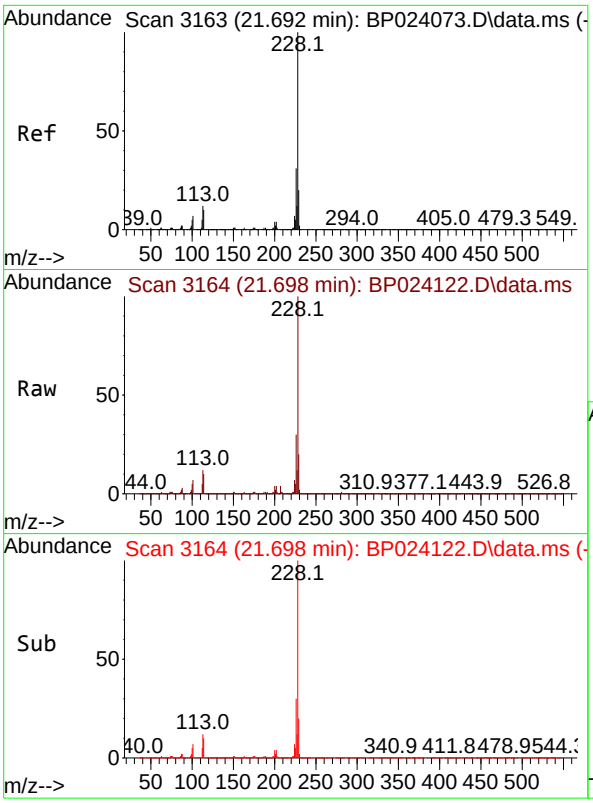


#82
3,3'-Dichlorobenzidine
Concen: 59.819 ng
RT: 21.545 min Scan# 3138
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:252 Resp: 1722208

Ion	Ratio	Lower	Upper
252	100		
254	65.4	52.4	78.6
126	12.0	9.6	14.4

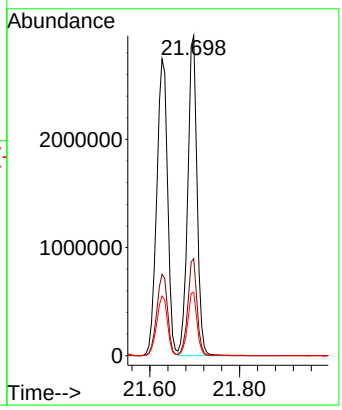




#83
Chrysene
Concen: 47.839 ng
RT: 21.698 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:228 Resp: 425011

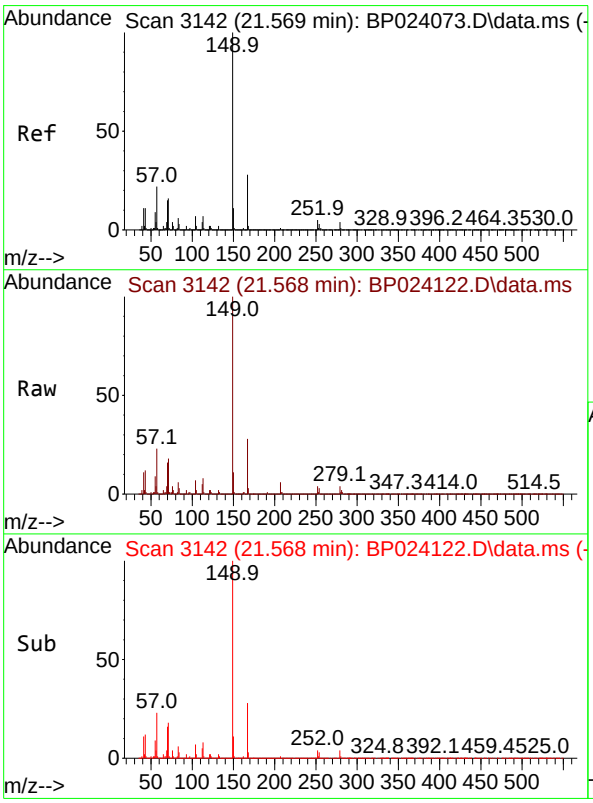
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7
229	19.9	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

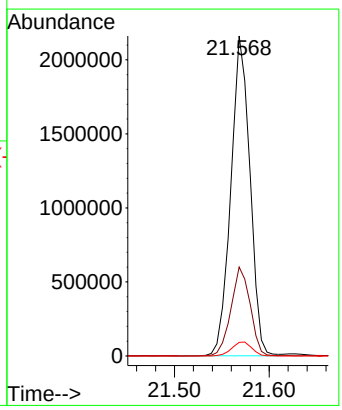
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

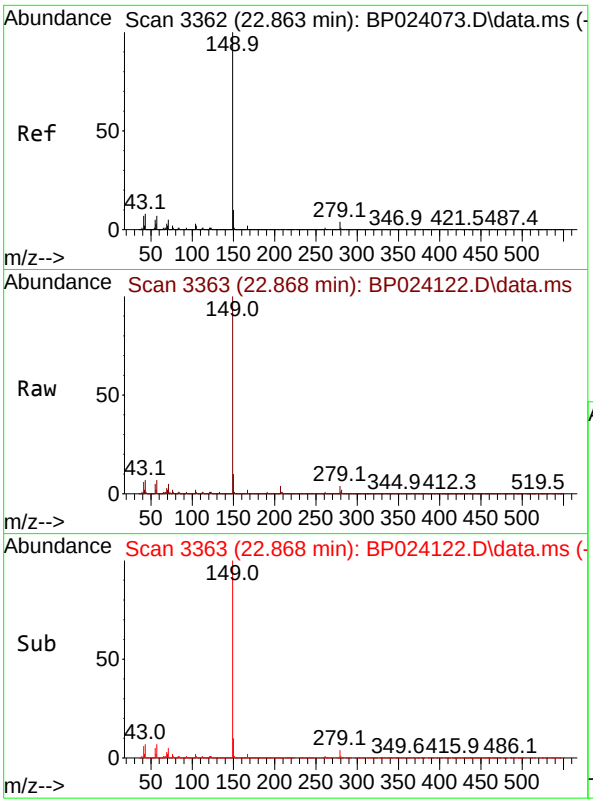


#84
Bis(2-ethylhexyl)phthalate
Concen: 55.734 ng
RT: 21.568 min Scan# 3142
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:149 Resp: 3022621

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.2
279	4.2	3.6	5.4





#85
Di-n-octyl phthalate
Concen: 58.444 ng
RT: 22.868 min Scan# 3
Delta R.T. 0.005 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

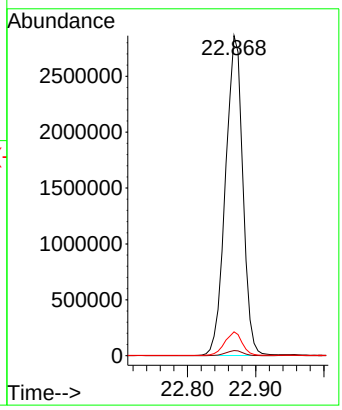
Tgt Ion:149 Resp: 506637

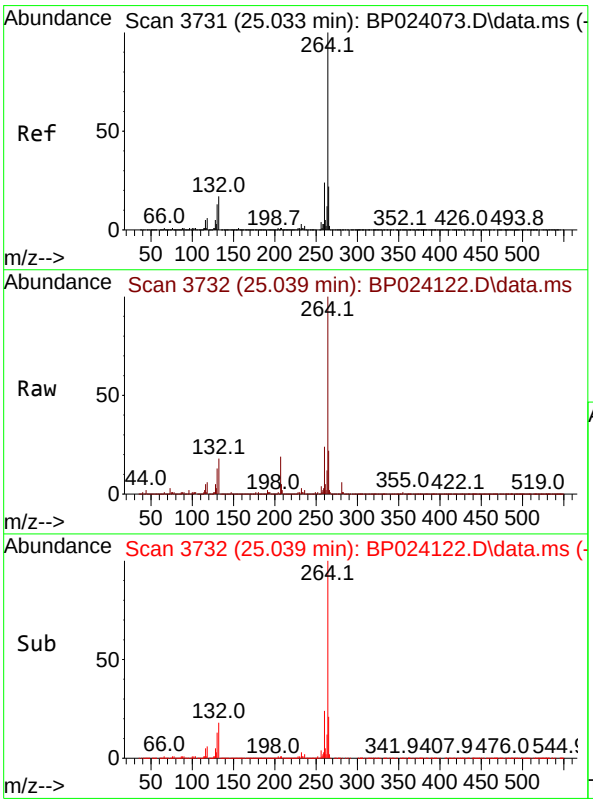
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.4	6.4	9.6

Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

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

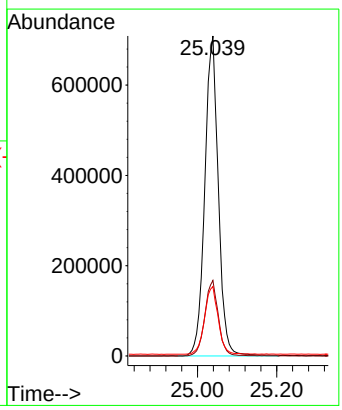


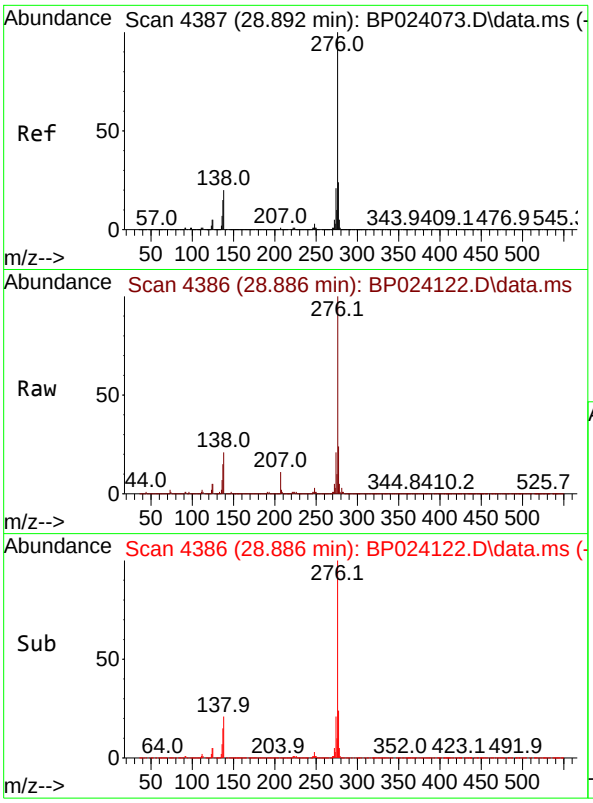


#86
Perylene-d12
Concen: 20.000 ng
RT: 25.039 min Scan# 3732
Delta R.T. 0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:264 Resp: 1682191

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.0	28.6
265	21.7	17.8	26.8

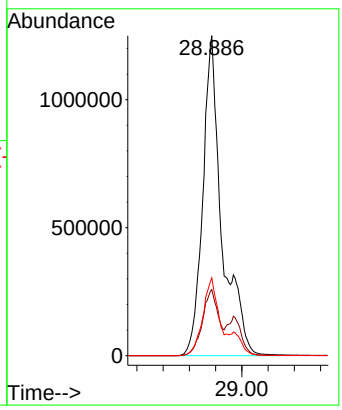




#87
Indeno(1,2,3-cd)pyrene
Concen: 52.850 ng m
RT: 28.886 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:276 Resp: 632468

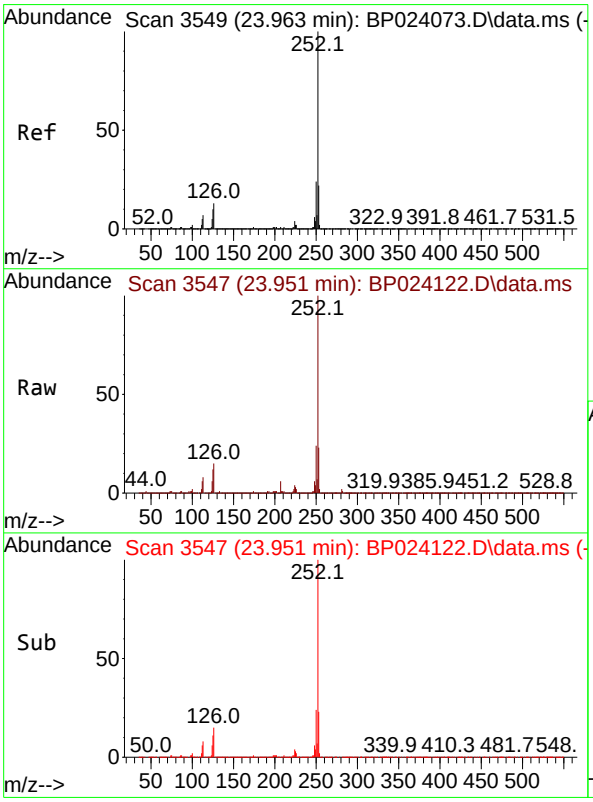
Ion	Ratio	Lower	Upper
276	100		
138	17.7	14.2	21.4
277	20.8	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

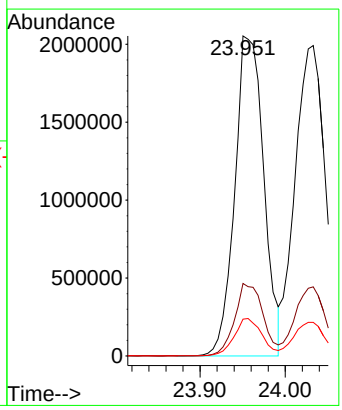
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

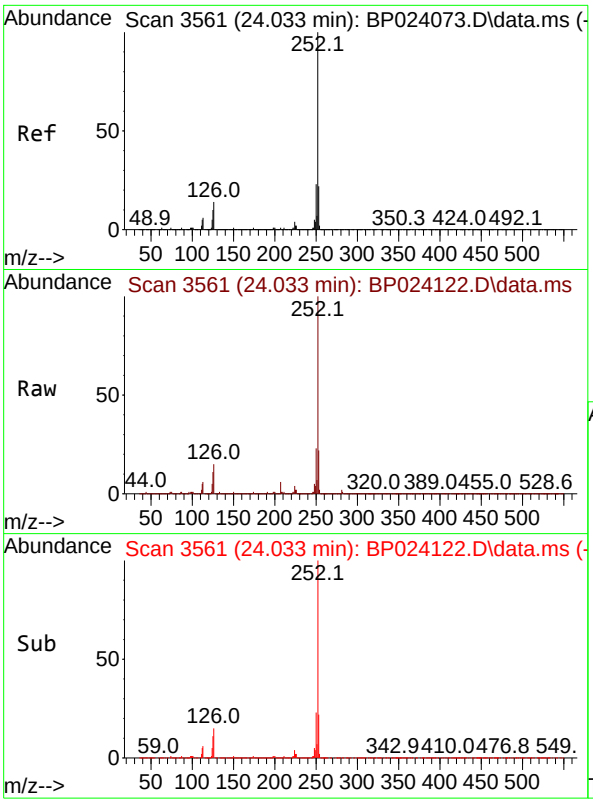


#88
Benzo(b)fluoranthene
Concen: 45.480 ng
RT: 23.951 min Scan# 3547
Delta R.T. -0.012 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:252 Resp: 4858290

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.6
125	11.5	8.4	12.6

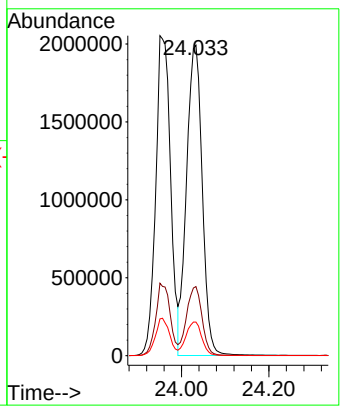




#89
Benzo(k)fluoranthene
Concen: 47.707 ng
RT: 24.033 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:252 Resp: 496046

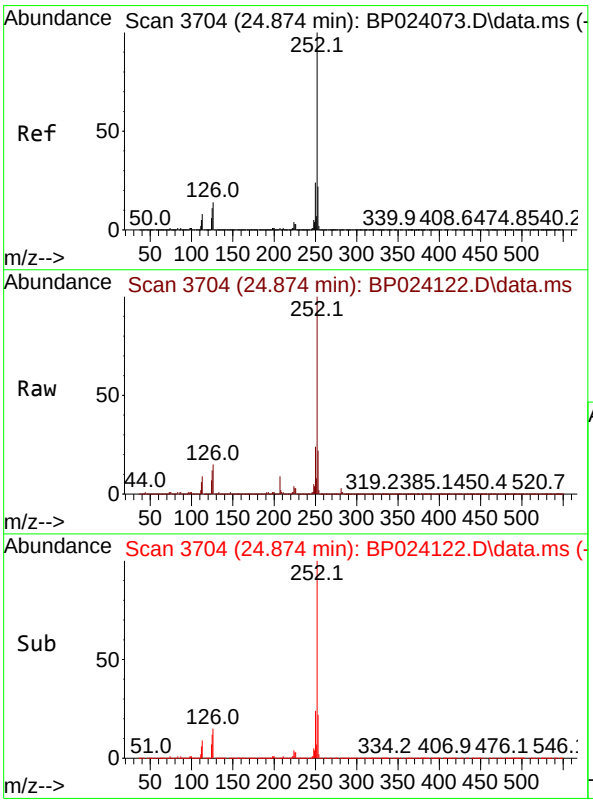
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	10.8	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations APPROVED

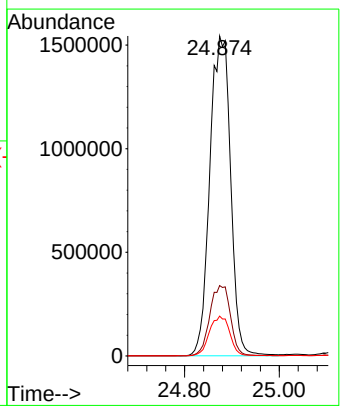
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025

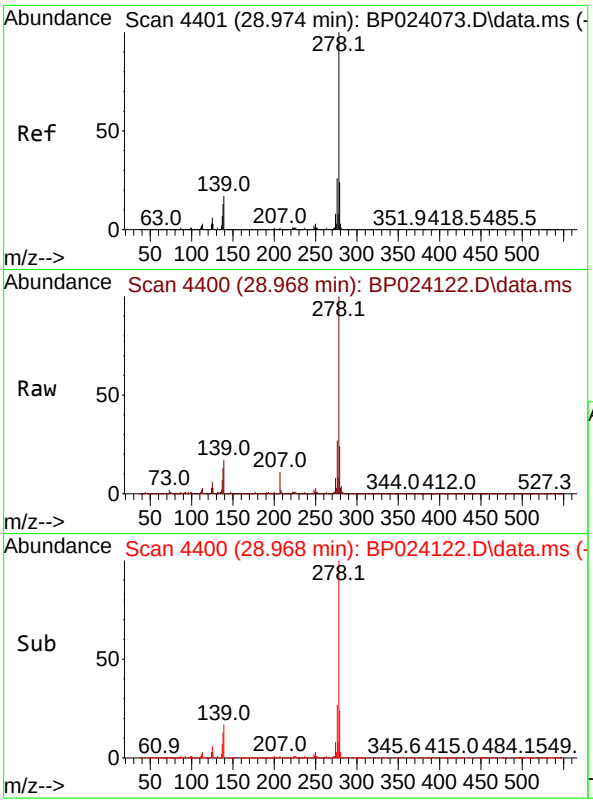


#90
Benzo(a)pyrene
Concen: 51.792 ng
RT: 24.874 min Scan# 3704
Delta R.T. -0.000 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:252 Resp: 4695288

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	12.5	8.8	13.2

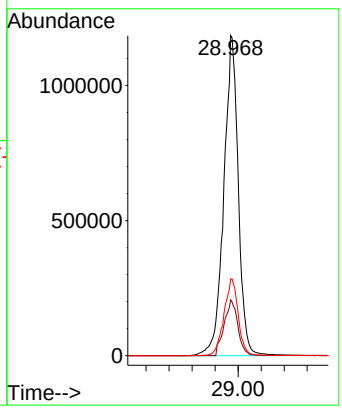




#91
Dibenzo(a,h)anthracene
Concen: 51.347 ng
RT: 28.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:278 Resp: 516668

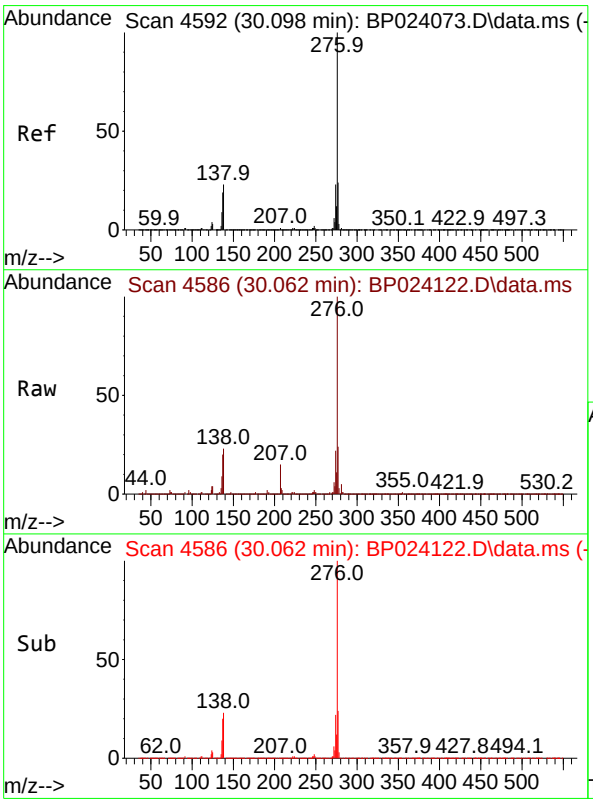
Ion	Ratio	Lower	Upper
278	100		
139	17.5	13.4	20.0
279	24.0	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
P001-CLAY-CF01-01MSD

Manual Integrations
APPROVED

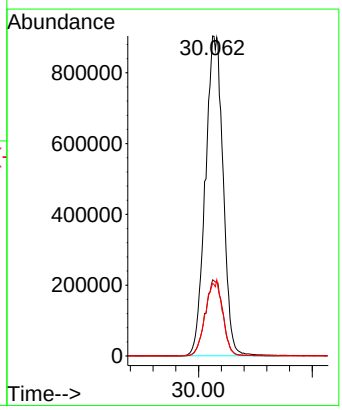
Reviewed By :Yogesh Patel 02/28/2025
Supervised By :mohammad ahmed 02/28/2025



#92
Benzo(g,h,i)perylene
Concen: 47.899 ng
RT: 30.062 min Scan# 4586
Delta R.T. -0.036 min
Lab File: BP024122.D
Acq: 27 Feb 2025 15:49

Tgt Ion:276 Resp: 4890835

Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.9	28.3
138	22.7	18.1	27.1



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:	BF022825	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

Manual Integration Report

Sequence:	BP021725	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BP024071.D	Caprolactam	Rahul	2/20/2025 11:35:27 AM	Jagrut	2/20/2025 11:52:35 AM	Peak Integrated by Software
SSTDICC010	BP024071.D	Indeno(1,2,3-cd)pyrene	Rahul	2/20/2025 11:35:27 AM	Jagrut	2/20/2025 11:52:35 AM	Peak Integrated by Software
SSTDICCC040	BP024073.D	Indeno(1,2,3-cd)pyrene	Rahul	2/20/2025 11:35:36 AM	Jagrut	2/20/2025 11:52:38 AM	Peak Integrated by Software
SSTDICC050	BP024074.D	Indeno(1,2,3-cd)pyrene	Rahul	2/20/2025 11:35:39 AM	Jagrut	2/20/2025 11:52:43 AM	Peak Integrated by Software
SSTDICC050	BP024074.D	Pyridine	Rahul	2/20/2025 11:35:39 AM	Jagrut	2/20/2025 11:52:43 AM	Peak Integrated by Software
SSTDICC060	BP024075.D	Indeno(1,2,3-cd)pyrene	Rahul	2/20/2025 11:35:43 AM	Jagrut	2/20/2025 11:52:45 AM	Peak Integrated by Software
SSTDICC060	BP024075.D	Pyridine	Rahul	2/20/2025 11:35:43 AM	Jagrut	2/20/2025 11:52:45 AM	Peak Integrated by Software
SSTDICC080	BP024076.D	Indeno(1,2,3-cd)pyrene	Rahul	2/20/2025 11:36:07 AM	Jagrut	2/20/2025 11:52:49 AM	Peak Integrated by Software
SSTDICC080	BP024076.D	Pyridine	Rahul	2/20/2025 11:36:07 AM	Jagrut	2/20/2025 11:52:49 AM	Peak Integrated by Software
SSTDICV040	BP024077.D	Indeno(1,2,3-cd)pyrene	Rahul	2/20/2025 11:35:47 AM	Jagrut	2/20/2025 11:52:51 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	Bp022725	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024116.D	Benzo(g,h,i)perylene	yogesh	2/28/2025 7:29:14 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software
PB166894BS	BP024118.D	2,2"-oxybis(1-Chloropropane)	yogesh	2/28/2025 7:29:18 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software
PB166894BS	BP024118.D	Indeno(1,2,3-cd)pyrene	yogesh	2/28/2025 7:29:18 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software
Q1421-05MS	BP024121.D	2,2"-oxybis(1-Chloropropane)	yogesh	2/28/2025 7:29:22 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software
Q1421-06MSD	BP024122.D	2,2"-oxybis(1-Chloropropane)	yogesh	2/28/2025 7:29:26 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software
Q1421-06MSD	BP024122.D	Benzaldehyde	yogesh	2/28/2025 7:29:26 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software
Q1421-06MSD	BP024122.D	Indeno(1,2,3-cd)pyrene	yogesh	2/28/2025 7:29:26 AM	mohammad	2/28/2025 7:32:43 AM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # 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 # BF022825

Review By	anahy	Review On	3/3/2025 8:38:43 AM		
Supervise By	Jagrut	Supervise On	3/3/2025 10:15:06 AM		
SubDirectory	BF022825	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	BF141803.D	28 Feb 2025 09:14	RC/JU	Ok
2	SSTDCCC040	BF141804.D	28 Feb 2025 10:03	RC/JU	Ok
3	PB166894BL	BF141805.D	28 Feb 2025 11:17	RC/JU	Ok
4	Q1421-08	BF141806.D	28 Feb 2025 13:22	RC/JU	Ok
5	Q1421-10	BF141807.D	28 Feb 2025 13:52	RC/JU	Ok
6	Q1451-01	BF141808.D	28 Feb 2025 14:21	RC/JU	Ok
7	Q1435-01	BF141809.D	28 Feb 2025 15:15	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP021725

Review By	Rahul	Review On	2/20/2025 11:36:19 AM		
Supervise By	Jagrut	Supervise On	2/20/2025 11:53:03 AM		
SubDirectory	BP021725	HP Acquire Method	BNA_P	HP Processing Method	bp021725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024068.D	17 Feb 2025 10:47	RC/JU	Ok
2	SSTDICC2.5	BP024069.D	17 Feb 2025 11:28	RC/JU	Ok
3	SSTDICC005	BP024070.D	17 Feb 2025 12:09	RC/JU	Ok
4	SSTDICC010	BP024071.D	17 Feb 2025 12:49	RC/JU	Ok,M
5	SSTDICC020	BP024072.D	17 Feb 2025 13:31	RC/JU	Ok
6	SSTDICCC040	BP024073.D	17 Feb 2025 14:12	RC/JU	Ok,M
7	SSTDICC050	BP024074.D	17 Feb 2025 14:52	RC/JU	Ok,M
8	SSTDICC060	BP024075.D	17 Feb 2025 15:33	RC/JU	Ok,M
9	SSTDICC080	BP024076.D	17 Feb 2025 16:14	RC/JU	Ok,M
10	SSTDICV040	BP024077.D	17 Feb 2025 16:55	RC/JU	Ok,M
11	PB166698BL	BP024078.D	17 Feb 2025 17:36	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_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP022725

Review By	yogesh	Review On	2/28/2025 7:29:52 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:43 AM		
SubDirectory	BP022725	HP Acquire Method	BNA_P	HP Processing Method	bp021725

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	BP024115.D	27 Feb 2025 10:01	RC/JU	Ok
2	SSTDCCC040	BP024116.D	27 Feb 2025 10:42	RC/JU	Ok,M
3	PB166894BL	BP024117.D	27 Feb 2025 11:47	RC/JU	Ok
4	PB166894BS	BP024118.D	27 Feb 2025 13:00	RC/JU	Ok,M
5	PB166894TB	BP024119.D	27 Feb 2025 13:41	RC/JU	Ok
6	Q1421-04	BP024120.D	27 Feb 2025 14:27	RC/JU	Ok
7	Q1421-05MS	BP024121.D	27 Feb 2025 15:08	RC/JU	Ok,M
8	Q1421-06MSD	BP024122.D	27 Feb 2025 15:49	RC/JU	Ok,M
9	Q1427-02	BP024123.D	27 Feb 2025 17:13	RC/JU	Ok
10	Q1442-03MS	BP024124.D	27 Feb 2025 17:54	RC/JU	Ok
11	Q1442-03MSD	BP024125.D	27 Feb 2025 18:35	RC/JU	Ok,M
12	Q1442-03	BP024126.D	27 Feb 2025 19:16	RC/JU	Ok
13	Q1441-01	BP024127.D	27 Feb 2025 19:57	RC/JU	Ok
14	Q1440-01	BP024128.D	27 Feb 2025 20:38	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 # 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 # BF022825

Review By	anahy	Review On	3/3/2025 8:38:43 AM		
Supervise By	Jagrut	Supervise On	3/3/2025 10:15:06 AM		
SubDirectory	BF022825	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	BF141803.D	28 Feb 2025 09:14		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141804.D	28 Feb 2025 10:03		RC/JU	Ok
3	PB166894BL	PB166894BL	BF141805.D	28 Feb 2025 11:17		RC/JU	Ok
4	Q1421-08	P001-CLAY-CF01-02	BF141806.D	28 Feb 2025 13:22		RC/JU	Ok
5	Q1421-10	P001-CLAY-CF02-01	BF141807.D	28 Feb 2025 13:52		RC/JU	Ok
6	Q1451-01	VNJ208	BF141808.D	28 Feb 2025 14:21		RC/JU	Ok
7	Q1435-01	286107	BF141809.D	28 Feb 2025 15:15		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP021725

Review By	Rahul	Review On	2/20/2025 11:36:19 AM		
Supervise By	Jagrut	Supervise On	2/20/2025 11:53:03 AM		
SubDirectory	BP021725	HP Acquire Method	BNA_P	HP Processing Method	bp021725

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12652,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024068.D	17 Feb 2025 10:47		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024069.D	17 Feb 2025 11:28		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024070.D	17 Feb 2025 12:09	Compounds #32,35,54,56,65,70,85 are removed from 5ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BP024071.D	17 Feb 2025 12:49	Compounds #32,35,54,62,65 Kept on LR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024072.D	17 Feb 2025 13:31	Compound #77 failed in the Calibration	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP024073.D	17 Feb 2025 14:12	The Calibration is Good For 8270E DOD and 8270E Except for com#77	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BP024074.D	17 Feb 2025 14:52		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BP024075.D	17 Feb 2025 15:33		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP024076.D	17 Feb 2025 16:14		RC/JU	Ok,M
10	SSTDICV040	ICVBP021725	BP024077.D	17 Feb 2025 16:55		RC/JU	Ok,M
11	PB166698BL	PB166698BL	BP024078.D	17 Feb 2025 17:36	Analyzed for contamination check	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_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP022725

Review By	yogesh	Review On	2/28/2025 7:29:52 AM		
Supervise By	mohammad	Supervise On	2/28/2025 7:32:43 AM		
SubDirectory	BP022725	HP Acquire Method	BNA_P	HP Processing Method	bp021725

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	BP024115.D	27 Feb 2025 10:01		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024116.D	27 Feb 2025 10:42		RC/JU	Ok,M
3	PB166894BL	PB166894BL	BP024117.D	27 Feb 2025 11:47		RC/JU	Ok
4	PB166894BS	PB166894BS	BP024118.D	27 Feb 2025 13:00		RC/JU	Ok,M
5	PB166894TB	PB166894TB	BP024119.D	27 Feb 2025 13:41		RC/JU	Ok
6	Q1421-04	P001-CLAY-CF01-01	BP024120.D	27 Feb 2025 14:27		RC/JU	Ok
7	Q1421-05MS	P001-CLAY-CF01-01M	BP024121.D	27 Feb 2025 15:08		RC/JU	Ok,M
8	Q1421-06MSD	P001-CLAY-CF01-01M	BP024122.D	27 Feb 2025 15:49		RC/JU	Ok,M
9	Q1427-02	VNJ-227	BP024123.D	27 Feb 2025 17:13		RC/JU	Ok
10	Q1442-03MS	351MS	BP024124.D	27 Feb 2025 17:54		RC/JU	Ok
11	Q1442-03MSD	351MSD	BP024125.D	27 Feb 2025 18:35		RC/JU	Ok,M
12	Q1442-03	351	BP024126.D	27 Feb 2025 19:16		RC/JU	Ok
13	Q1441-01	HD-02-022625	BP024127.D	27 Feb 2025 19:57		RC/JU	Ok
14	Q1440-01	OR-02-022625	BP024128.D	27 Feb 2025 20:38		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB166861

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 02/25/2025 **Time :** 14:00

End Prep Date : 02/26/2025 **Time :** 07:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID#1	N/A	WP110806
SPLP FLUID#3	N/A	W3112
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Tumbler T-1 /T-2 CHECKED,30 RPM. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
02/26/25 11:00	JP / TCLP Room	SRG. RM 'RS / Ext-1
	Preparation Group	Analysis Group / Met Dig / Met Chem.

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB166861

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Po
PB166861TB	LEB861	04	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-1
Q1421-04	P001-CLAY-CF01-01	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-05	Q1421-04MS	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-06	Q1421-04MSD	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-08	P001-CLAY-CF01-02	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1421-10	P001-CLAY-CF02-01	03	100.04	2000	N/A	N/A	N/A	5.5	1.5	T-1

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

For SPLP Cyanide

PB166861 TP

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166861TB	LEB861	14	N/A	2000	N/A	N/A	N/A	5.03	11.0	T-2
Q1421-04	P001-CLAY-CF01-01	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-05	Q1421-04MS	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-06	Q1421-04MSD	11	100.04	2000	N/A	N/A	N/A	6.0	11.5	T-2
Q1421-08	P001-CLAY-CF01-02	12	100.03	2000	N/A	N/A	N/A	6.2	12.0	T-2
Q1421-10	P001-CLAY-CF02-01	13	100.05	2000	N/A	N/A	N/A	6.0	11.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166861TB	LEB861	N/A	N/A	N/A	N/A	N/A	N/A
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	100	N/A
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	100	N/A
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	100	N/A
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	100	N/A
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB166861

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB166861TB	LEB861	N/A	N/A	N/A	N/A	#1	4.24
Q1421-04	P001-CLAY-CF01-01	N/A	N/A	N/A	N/A	#1	4.24
Q1421-05	Q1421-04MS	N/A	N/A	N/A	N/A	#1	4.24
Q1421-06	Q1421-04MSD	N/A	N/A	N/A	N/A	#1	4.24
Q1421-08	P001-CLAY-CF01-02	N/A	N/A	N/A	N/A	#1	4.24
Q1421-10	P001-CLAY-CF02-01	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q1421 **WorkList ID :** 187869 **Department :** TCLP Extraction **Date :** 02-25-2025 10:58:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1421-04	P001-CLAY-CF01-01	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-05	Q1421-04MS	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-06	Q1421-04MSD	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-08	P001-CLAY-CF01-02	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312
Q1421-10	P001-CLAY-CF02-01	Solid	SPLP Extraction	1:1 HNO3 to pH < 2	ROYF02	H31	02/24/2025	1312

Date/Time 02/25/25 12:00

Raw Sample Received by: JD CWC

Raw Sample Relinquished by: JD CSM

Date/Time 02/25/25 16:00

Raw Sample Received by: JD CSM

Raw Sample Relinquished by: JD CWC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166894

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 02/26/2025

Extraction Start Time : 11:20

Extraction End Date : 02/26/2025

Extraction End Time : 16:25

Concentration By: EH

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
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2589
H2SO4 1:1	N/A	EP2565
10N NaoH	N/A	EP2559
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:

pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/26/25	RS (Ext lab)	RC/svoc
16:30	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166894

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166894BL	PB166894BL	SPLP BNA	1000	6	RUPESH	ritesh	1			SEP-1
PB166894BS	PB166894BS	SPLP BNA	1000	6	RUPESH	ritesh	1			2
PB166894TB	PB166894TB	SPLP BNA	1000	6	RUPESH	ritesh	1			3
Q1421-04	P001-CLAY-CF01-01	SPLP BNA	1000	6	RUPESH	ritesh	1	A		4
Q1421-05	Q1421-04MS	SPLP BNA	1000	6	RUPESH	ritesh	1	A		5
Q1421-06	Q1421-04MSD	SPLP BNA	1000	6	RUPESH	ritesh	1	A		6
Q1421-08	P001-CLAY-CF01-02	SPLP BNA	1000	6	RUPESH	ritesh	1	A		7
Q1421-10	P001-CLAY-CF02-01	SPLP BNA	1000	6	RUPESH	ritesh	1	A		8

RJ
2/26

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB166861

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Po
PB166861TB	LEB861	04	N/A	2000	N/A	N/A	N/A	4.24	1.0	T-1
Q1421-04	P001-CLAY-CF01-01	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-05	Q1421-04MS	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-06	Q1421-04MSD	01	100.02	2000	N/A	N/A	N/A	5.5	1.5	T-1
Q1421-08	P001-CLAY-CF01-02	02	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q1421-10	P001-CLAY-CF02-01	03	100.04	2000	N/A	N/A	N/A	5.5	1.5	T-1

02/26/25

19:00

Page 2 of 4

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

Prep Standard - Chemical Standard Summary

Order ID : Q1421

Test : SPLP BNA

Prepbatch ID : PB166894,

Sequence ID/Qc Batch ID: bf022825,BP022725,

Standard ID :
EP2559,EP2565,EP2589,SP6638,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :
10ul/1000ul sample,E3551,E3657,E3815,E3828,E3846,E3871,E3874,E3878,M5173,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12653,S12791,S12963,S12964,S12965,S12966,W3112,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6720	01/29/2025	04/30/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/06/2025

FROM 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = Final Quantity: 200.000 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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

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)

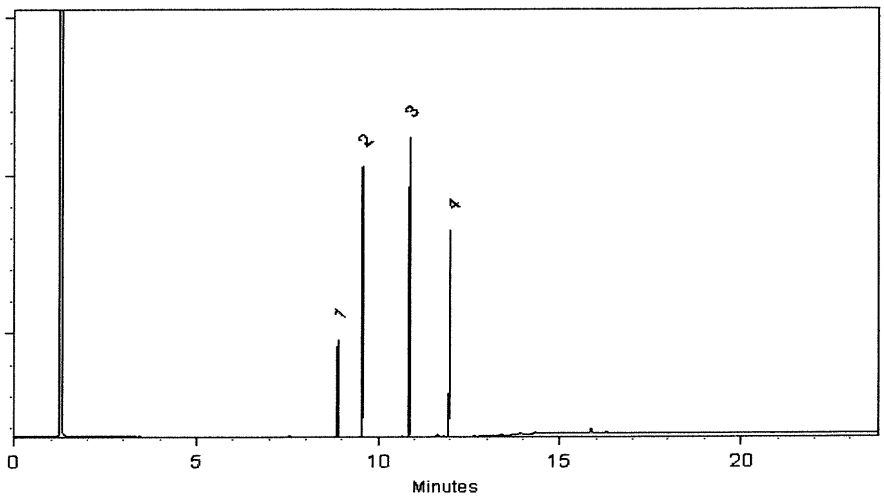
Carrier Gas:
hydrogen-constant pressure 10 psi.

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 S10583 to S10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG
S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

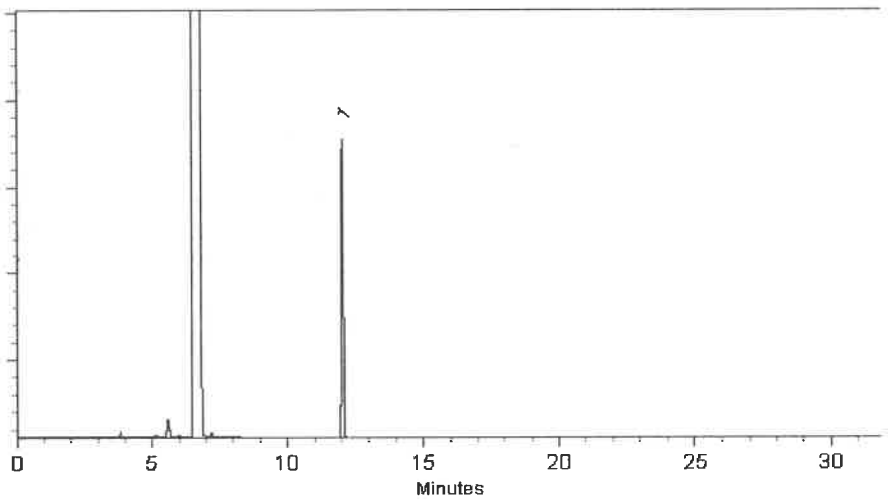
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

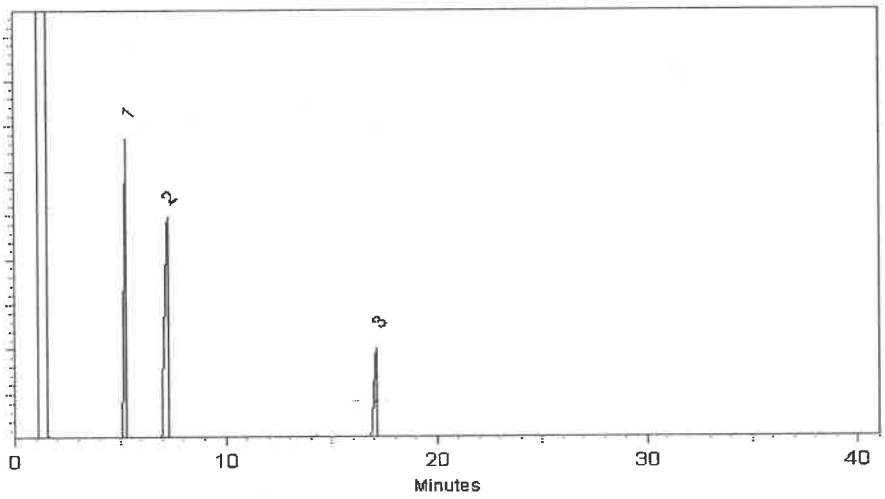
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

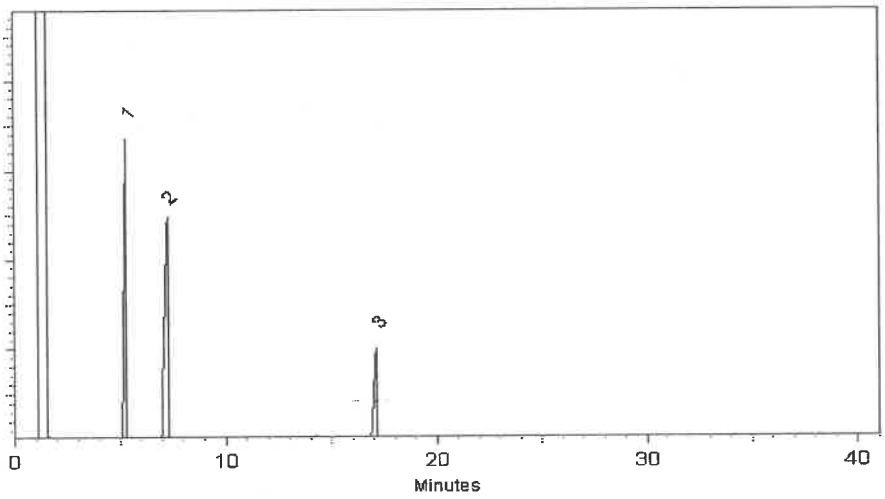
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

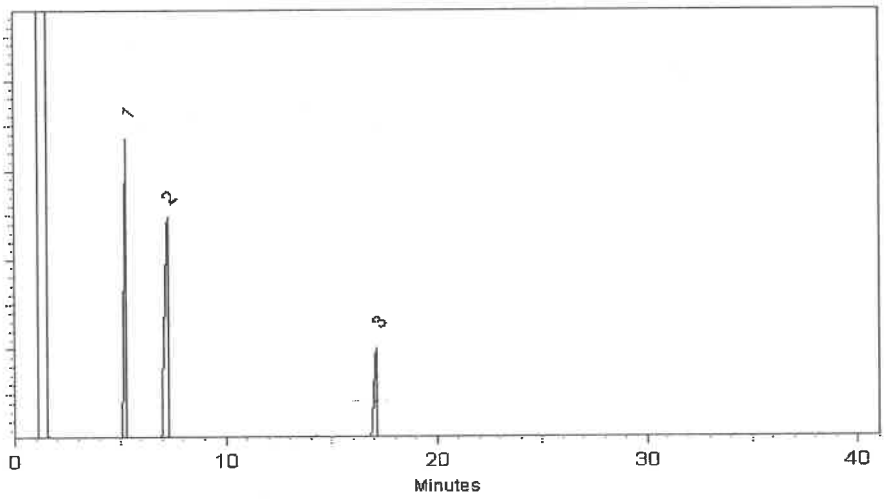
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

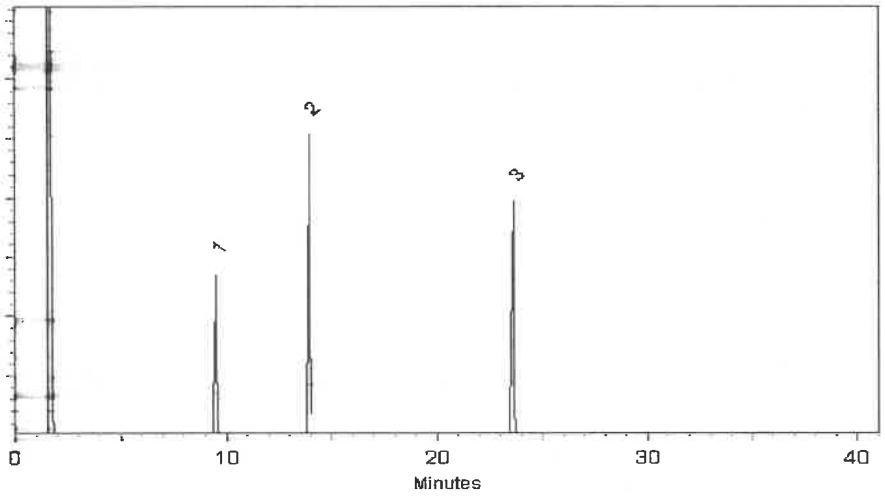
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

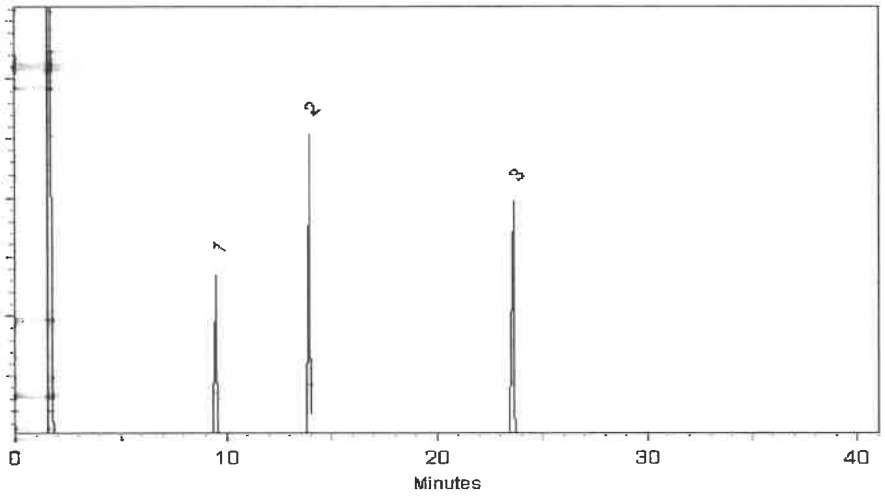
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
$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		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

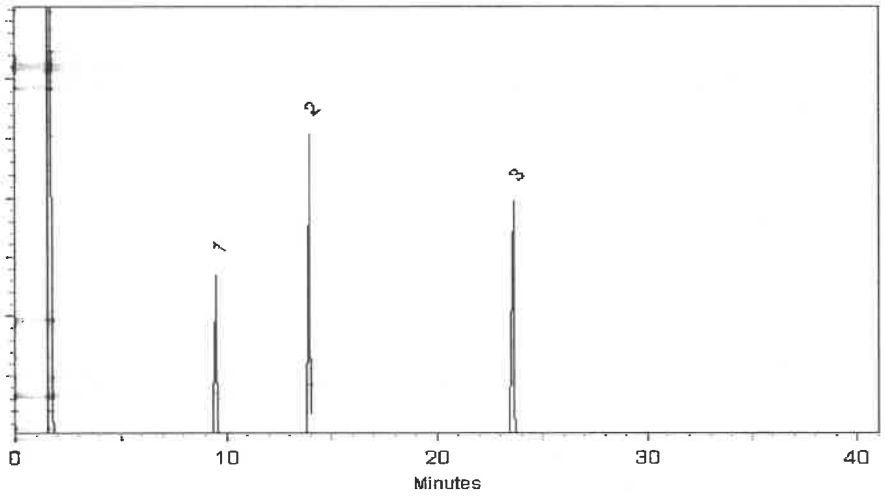
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

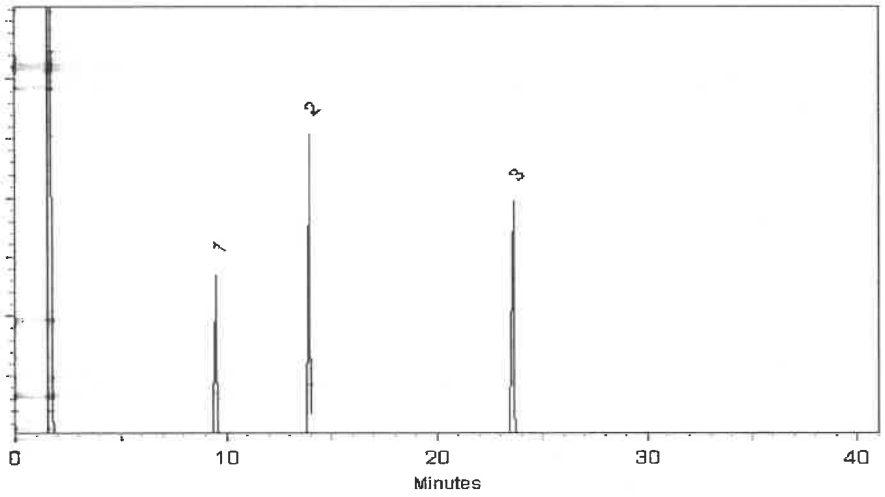
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

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		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

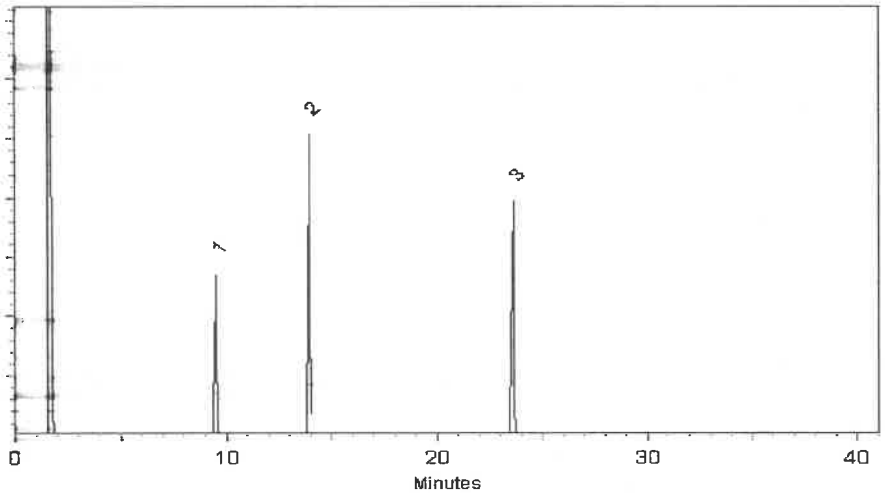
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5		5,009.8 µg/mL	+/- 29.1271 µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940A)		+/- 225.6421 µg/mL	Unstressed
	Purity 99%			+/- 250.3778 µg/mL	Stressed
2	2-Fluorobiphenyl		5,026.6 µg/mL	+/- 29.2250 µg/mL	Gravimetric
	CAS # 321-60-8	(Lot 00021384)		+/- 226.4003 µg/mL	Unstressed
	Purity 99%			+/- 251.2191 µg/mL	Stressed
3	p-Terphenyl-d14		5,027.3 µg/mL	+/- 29.2289 µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)		+/- 226.4304 µg/mL	Unstressed
	Purity 99%			+/- 251.2524 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

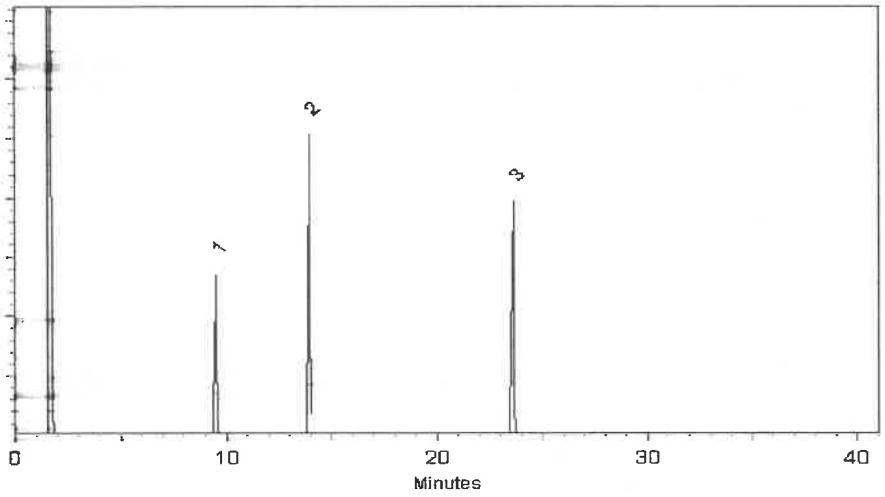
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22
S10981 to S11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

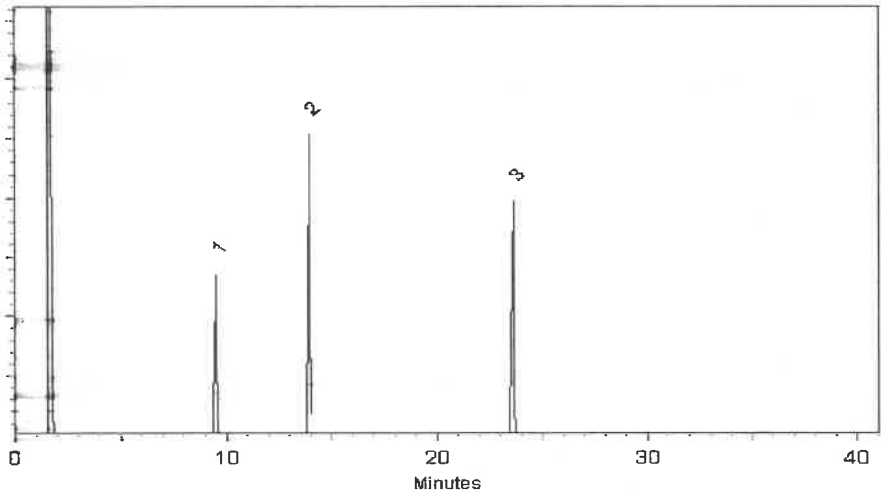
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

tes:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

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 RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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

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

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

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James 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

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

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.

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.)

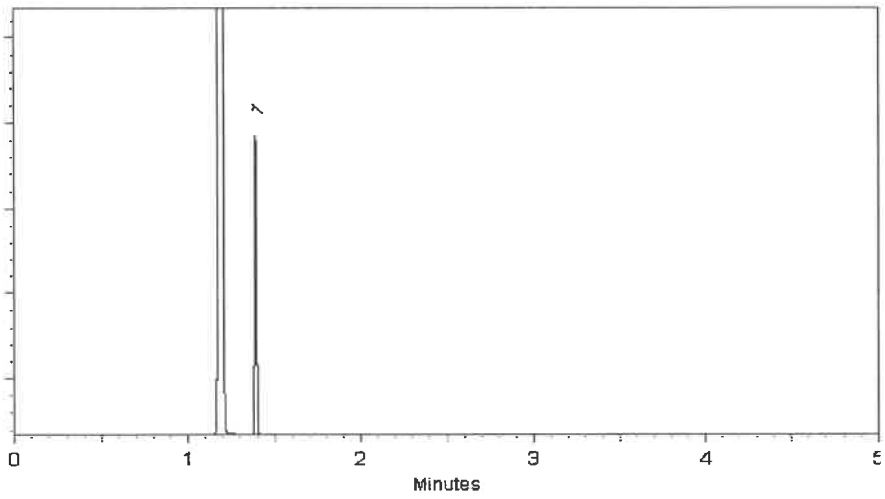
Inj. Temp:
250°C

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.)

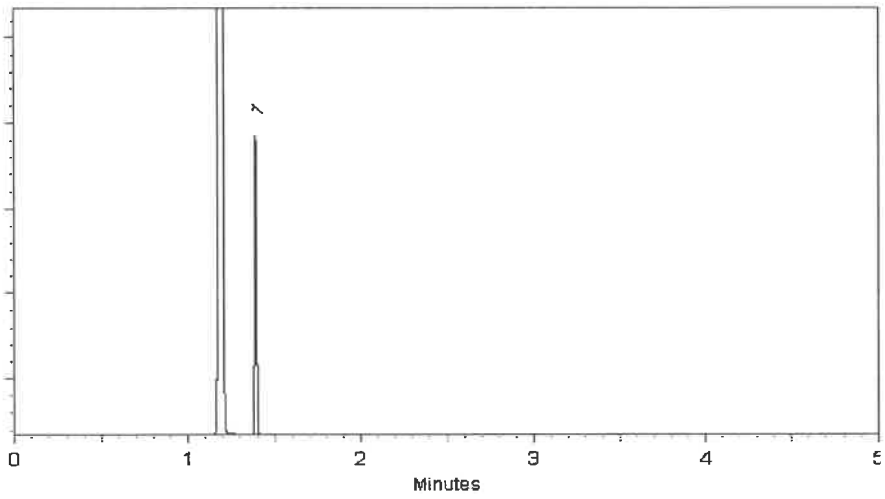
Inj. Temp:
250°C

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.)

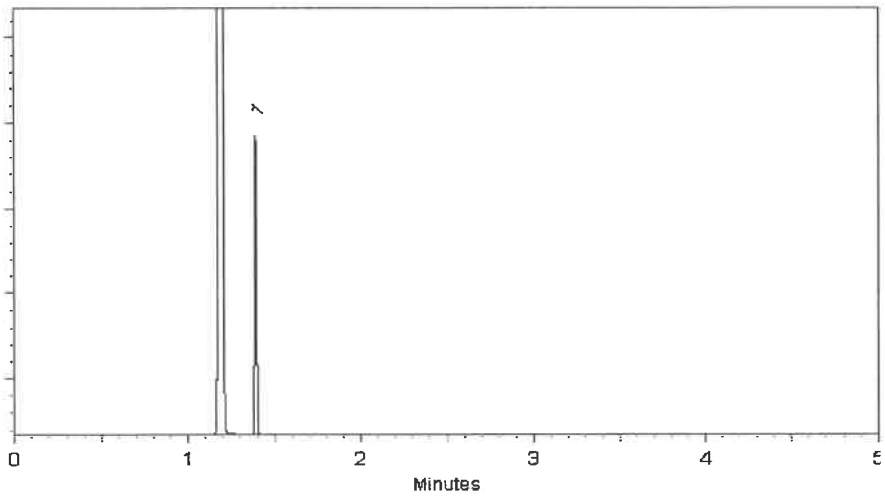
Inj. Temp:
250°C

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

S11749 ↓ S11794 RC 11/30/23

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

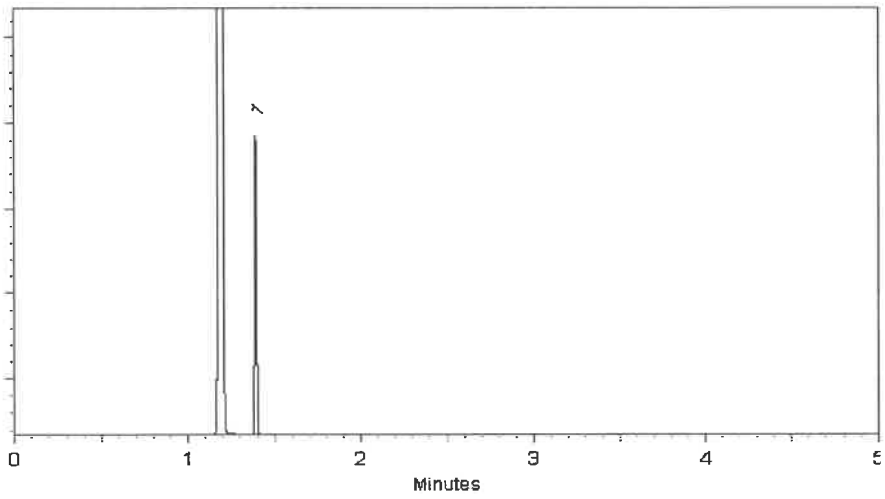
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

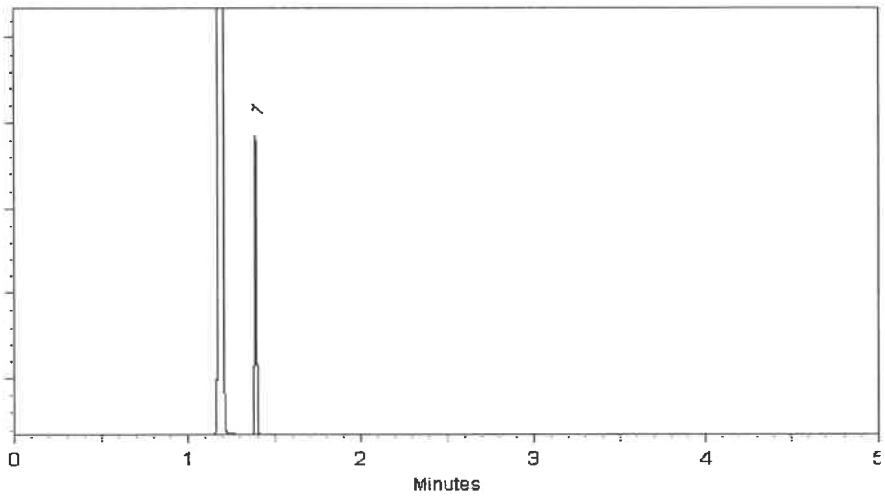
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

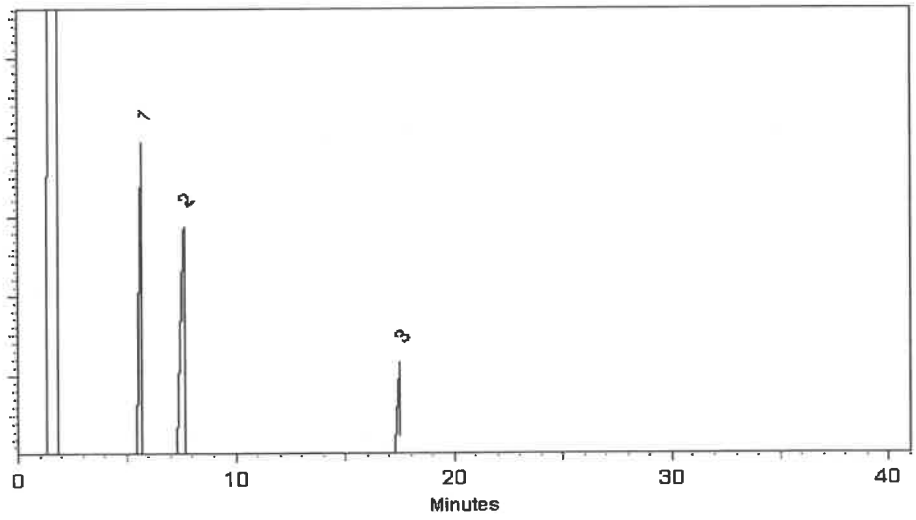
Inj. Temp:
250°C

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. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

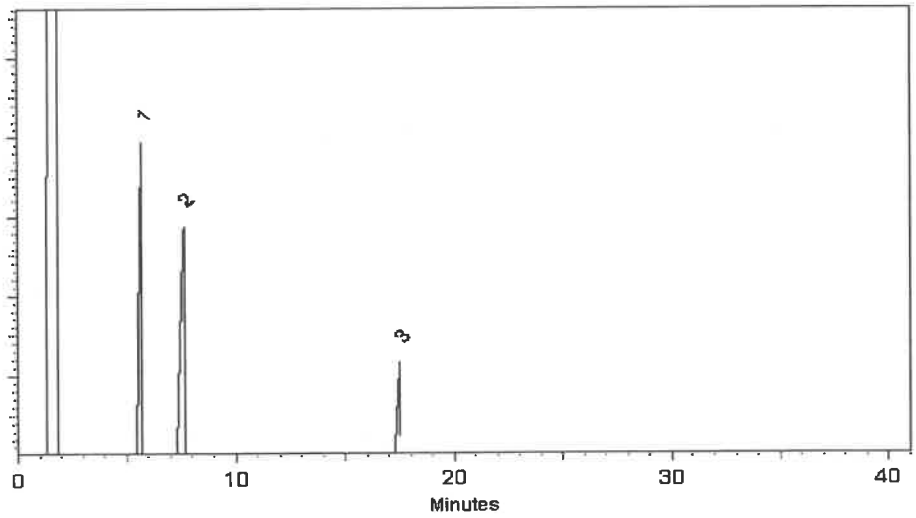
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

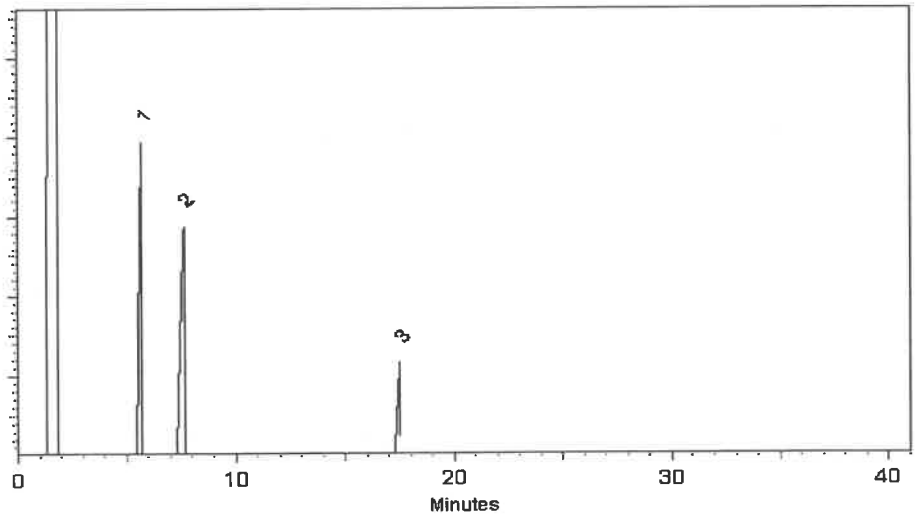
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

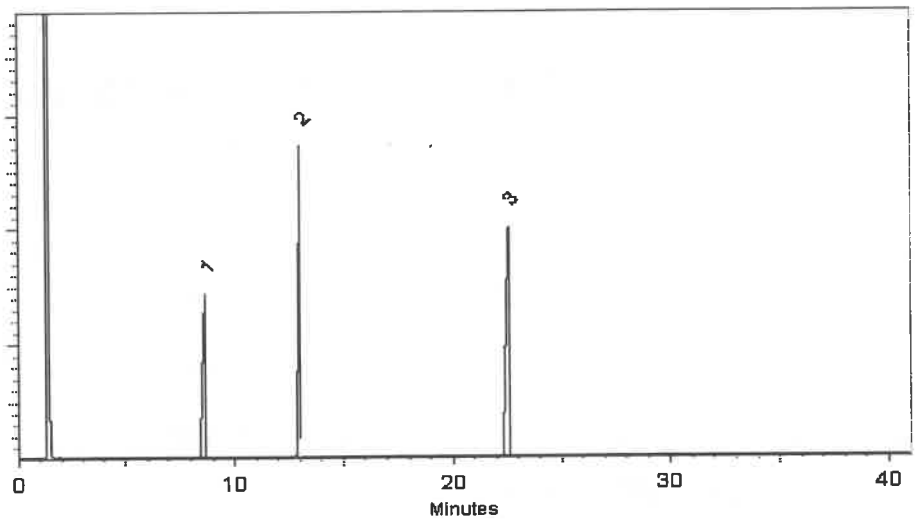
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

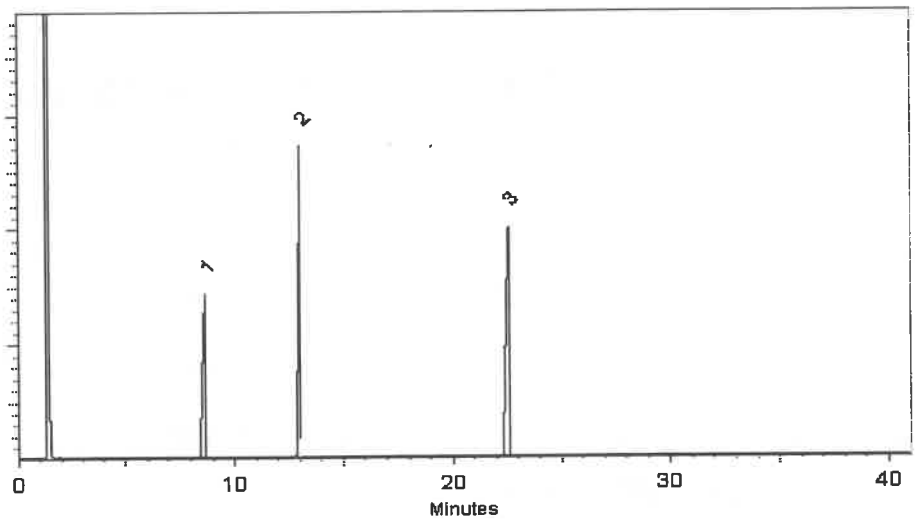
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

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
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

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

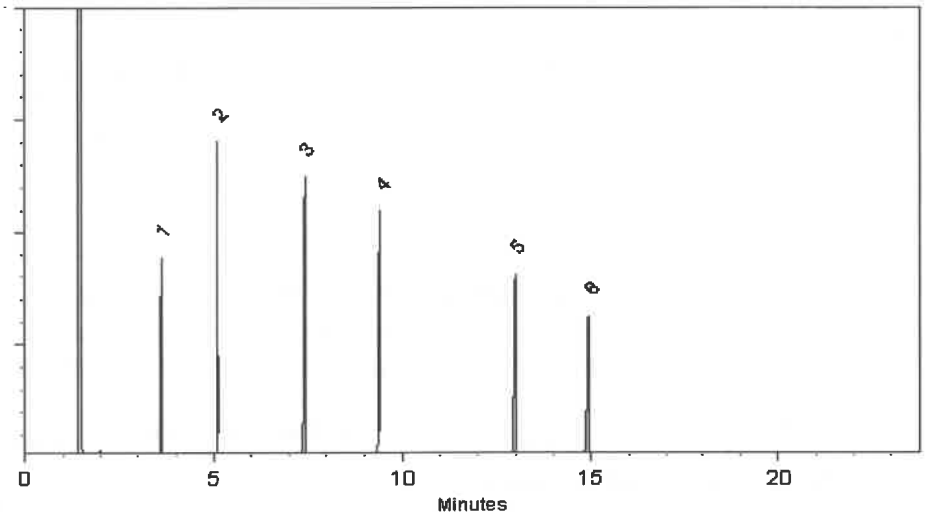
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-01	HL_Pile	TAL VOCs	Soil	2/24/2025	09:40	9	5 gram Encore	4 C	Y
	P001-Clay-CF01-01	HL_Pile	Percent Moisture	Soil	2/24/2025	09:40	1	4 oz glass w/ septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	EPH	Soil	2/24/2025	09:40	2	4 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:40	8	40 mL Amber Vial W/ Septum	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y
	P001-Clay-CF01-01	HL_Pile	SPLP EPH	Soil	2/24/2025	09:40	4	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All SAMPLES All ANALYSES	WESTON SOLUTIONS	2/24/25 1900		2-24-25 1425	4.9°C IR Gun #1
					Temp Blk present
					Custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF01-02	HL_Pile	TAL VOCs	Soil	2/24/2025	09:50	3	5 gram Encore	4 C	N
	P001-Clay-CF01-02	HL_Pile	Percent Moisture	Soil	2/24/2025	09:50	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	EPH	Soil	2/24/2025	09:50	1	4 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP VOCs	Soil	2/24/2025	09:50	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N
	P001-Clay-CF01-02	HL_Pile	SPLP EPH	Soil	2/24/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON SOLUTIONS	2/24/25 1500		2-24-25 1425	4.9°C Jul Ice #1 Temp blk. present custody seals intact

Q1421

USEPA

DateShipped: 2/24/2025

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Site #: 51835

Contact Name Josh Frizzell

(470) 277-4600

No: 2-022425-130044-0031

RFP# NA

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-Clay-CF02-01	HL_Pile	TAL VOCs	Soil	2/24/2025	10:00	3	5 gram Encore	4 C	N
	P001-Clay-CF02-01	HL_Pile	Percent Moisture	Soil	2/24/2025	10:00	1	4 oz glass w/ septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL SVOC+Pest+PCB	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	TAL Metals+Hg+CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	EPH	Soil	2/24/2025	10:00	1	4 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP VOCs	Soil	2/24/2025	10:00	4	40 mL Amber Vial W/ Septum	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP SVOCs + Pesticides+PCBs	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP Metals + Hg&CN	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N
	P001-Clay-CF02-01	HL_Pile	SPLP EPH	Soil	2/24/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON SAMPLERS	2/24/25 1500		2-24-25 1425	4.9°C IR Gun #1 Temp blk. present custody seals intact

From: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Sent: Tuesday, February 25, 2025 9:30 AM
To: Jordan@chemtech.net
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835
Attachments: RFP#905-corrected COC.pdf

Jordan – Attached please find corrected COC with RFP# 905 and use the SW 846 Methods. Contact me with any questions.

Thanks,
Smita

From: Jordan Hedvat <Jordan@chemtech.net>
Sent: Monday, February 24, 2025 5:32 PM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: yazmeen.gomez@alliancetg.com
Subject: RE: Site # 51835

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Thanks, the COC did not mention specific Methods so we are running by standard SW-846. If CLP Methods required for these samples received today please let us know. COC is attached (# Q1421)

Regards,
Jordan

Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sumbaly, Smita [mailto:S.Sumbaly@WestonSolutions.com]
Sent: Monday, February 24, 2025 5:28 PM
To: Jordan@chemtech.net
Subject: Re: Site # 51835

Rfp#905

Sent from my iPhone

On Feb 24, 2025, at 4:36 PM, Jordan Hedvat <Jordan@chemtech.net> wrote:

***** External Message *** -- PROBE message before clicking links or opening attachments.**

Good afternoon Smita,

We received project with COC titled “Site # 51835.” Please confirm for which RFP # project this falls under so we may include the correct pricing provided at the time of bid? Thank you

Regards,
Jordan

<image001.png>

Jordan Hedvat
Account Executive, Environmental Laboratories
Main: 908-789-8900
Direct: 908-728-3144
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

CAUTION: This email originated outside of the organization. **DO NOT CLICK** links or open attachments unless you recognize the sender and know the content is safe.

CONFIDENTIALITY: This email and attachments may contain information which is confidential and proprietary. Disclosure or use of any such confidential or proprietary information without the written permission of Weston Solutions, Inc. is strictly prohibited. If you received this email in error, please notify the sender by return e-mail and delete this email from your system. Thank you.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1421 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 2/24/2025 2:56:42 PM
Project Name : ~~51835~~ RFP 905
Receive DateTime : 2/24/2025 2:25:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1421-01	P001-CLAY-CF01-01	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-02	Q1421-01MS	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-03	Q1421-01MSD	Solid	02/24/2025	09:40					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-07	P001-CLAY-CF01-02	Solid	02/24/2025	09:50					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q1421-09	P001-CLAY-CF02-01	Solid	02/24/2025	10:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By : [signature]
Date / Time : 2-24-25 15:40

Received By : [signature]
Date / Time : 2-24-25 15:40

Storage Area : VOA Refridgerator Room